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Material Emissions Data: 52 Building Materials Tested for 124 Compounds

Doyun Won, Gang Nong, Wenping Yang and Hans Schleibinger

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Material Emissions Data:
52 Building Materials Tested for 124 Compounds

Summary

A total of 52 building materials were tested for 124 volatile organic compounds (VOCs) in small-scale (50 L) and micro-scale chambers (44 mL) in accordance with ASTM standards. The test materials included 25 dry building materials (vinyl flooring, area rugs, laminated flooring, solid wood flooring, interior panels, structural materials, insulation & acoustical ceiling tile) and 27 wet materials (paint, wood finish/stain, polyurethane coating, adhesive and caulking).

Three types of sampling methods were used to cover different characteristics of target compounds. They included:

- 2,4-Dintrophenylhydrazine (DNPH) cartridges for aldehydes such as formaldehyde and acetaldehyde
- Pentafluorophenylhydrazine (PFPH) tubes for acrolein
- Tenax-Carbograph tubes for VOCs including very volatiles such as 1,3-butadiene, ethylene oxide and propylene oxide.

Among 124 NRC target compounds, aromatic hydrocarbons and alcohols are the most frequently detected compounds, followed by aldehydes/ketones and aliphatic hydrocarbons. Among Health Canada's "priority VOCs [1], the following compounds were never detected:

- Carbon tetrachloride
- Dichloromethane
- 1,1,2,2-Tetrachloroethane
- 1,3-Butadiene

Tetrachloroethylene and 1,2-dichloroethane were detected in only one material.
The detection frequency greater than 50 % included:

- Xylenes
- Naphthalene
- Toluene
- Acetaldehyde
- Formaldehyde
- Acrolein

Due to the high background and blank values, the high detection frequency of acrolein needs to be interpreted with caution. Further validation research is recommended to confirm the presence of acrolein in various sources.

The material usage scenario analysis coupled with the power-law decay models for emission factor led to estimations of indoor air concentrations that are within the IAQ levels reported in the literature for field investigations. It demonstrates the possibility that the

[1] "Priority VOCs" were identified by Health Canada's Indoor Air Contaminant Assessment Program as substances warranting further investigation, with respect to sources and risk assessment. The term "priority" does not imply that the VOC poses greater health risks than VOCs not identified as such.

chamber testing and modeling approach based on the material usage scenario representative of major indoor sources found in Canadian homes can provide reasonable information. In light of a wide variety of building materials and products used in homes, techniques such as Monte Carlo simulations are recommended for more generalized information on IAQ predictions.

The linearity between the micro-scale chamber (MC) and small-scale chamber (SC) results was determined for 10 dry materials and 12 wet materials for non-oxygenated compounds such as aliphatic and aromatic hydrocarbons. While the linearity was good with R^2 of 0.85 on average, the magnitude of the linearity was material-specific. It was not possible to derive a universal linearity coefficient that can be applied to all compounds and materials tested in this study. Therefore, using the MC test to predict the emission factors in a SC test is not likely to be feasible if the material-specific linearity coefficient is unknown.

Material Emissions Data:
52 Building Materials Tested for 124 Compounds

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1 Introduction

Building materials have been recognized as significant sources of potentially harmful chemical compounds in indoor environments. As detailed understanding of the emission properties of these materials is expanded, the chemical constituents with known toxicity are generally substituted with those with reduced or less known toxicity. Therefore, continuous attention to the changes in the chemical constituents in building materials is required. Chamber testing is typically used to understand the type of compounds emitted and the strength of the emissions.

The goal of this study is to obtain up-to-date emissions data from building materials that are easily available to Canadian consumers. Two types of chambers were employed to collect test data. First, small-scale chamber testing for four days in accordance with ASTM D 5116-2010 was used for a total of 52 building materials. This method generates emissions data under conditions that represent real indoor environments. The information is to be used to predict the indoor air concentration corresponding to different product usage scenarios. To optimize the sampling and analytical methods, a total of 124 compounds were identified as target compounds. Among these compounds, special attention was given to 20 compounds that have been or are now designated as "priority chemicals" by Health Canada's Indoor Air Contaminants Assessment Section. These include acrolein, 1,3-butadiene, ethylene oxide, propylene oxide, acetaldehyde, propanal, benzene, ethylbenzene, xylenes (1,2-dimethylbenzene and 1,3(4)-dimethylbenzene), isopropyl alcohol (2-propanol), tetrachloroethylene, 1,2-dichloroethane, chloroform, 1,4-dichlorobenzene, dichloromethane, carbon tetrachloride, 1,1,2,2-tetrachloroethane, naphthalene, toluene and formaldehyde.

Second, the tests were repeated in micro-scale chambers with same 52 materials. This was to investigate whether the "screening" test with micro-scale chambers can produce comparable results to the small-scale chamber test. While the small-scale chamber is recognized as a standard test method for material emissions, it is a relatively long-term test (several days) and resource-intensive. As recognized by ASTM D 7706-2011, the fast-screening method with the micro-chamber can be useful when comparison of products is required in relative terms. One example is when the comparison of the emission rates is needed as a quality control method used by manufacturers before and after product reformulations.

2 Methods

2.1 Test procedures

2.1.1 List of test specimens

The test materials were purchased randomly at several retail outlets in Ottawa between July and December 2012 and tested during the same period. Table 1 summarizes 52 test specimens grouped into solid (dry) and liquid (wet) building material classes. The materials are further classified to two groups: water-based/green building materials and oil-based/regular building materials.

A total of 25 dry building materials were tested, including vinyl flooring (5) and assembly (1), area rugs (2), other flooring (5) such as laminated, hardwood, cork and bamboo, shelving (2), interior panels (3) such as MDF, particle board and pine, structural materials (5) such as plywood, OSB and I-beam, acoustical ceiling tile (1) and insulation board (1). The wet building materials tested included paints (4), wood finishes/stains (4), polyurethane coatings (2), adhesives (4), caulking (9) and foam sealants (4). More detailed information on each specimen can be found in Table A. 1.

Table 1: Test materials – building materials and furnishings

Category	Subcategory	Detailed subcategory	Test ID	
			Regular or oil-based	Green or water-based
Dry materials (25)	Flooring	Vinyl flooring (5) Vinyl flooring assembly (1)	VF14a, 31, VF32, VF33, VF34, VF33a	
		Carpet (2)	CRP11	CRP10
	Wood-based Materials	Wood-based flooring (5)	LAM7, LAM8, COR1, EWF1	BAM1
		Shelving (2)	SHV1	SHV2
		Interior panels (3)	MDF3, PB7, PIN2	
		Structural materials (5)	PLY4, OSB8, SPR1, IB1, IB2	
	Ceiling tile	Acoustic ceiling tile (1)	ACT5	
	Insulation	Insulation board (1)	INS2	
Wet materials (27)	Coating	Paint (4)		PT9, 10, 11, 12
		Wood finish/stain (4)	WF1, WS8	WF2, WS9
		Polyurethane coating (2)	UR9	UR10
	Adhesive	Adhesive (4)	ADH10	ADH8a, 9, 11
	Caulking	Caulking for subfloor (2)	CAK13a	CAK31
		Caulking for draft or acoustics	CAK16a	CAK24a
		Silicone caulking (3)	CAK2a	CAK1a, 5a
		Caulking – other (2)	CAK37	CAK36
	Foam sealant	Foam sealant (4)	CAK32, 33, 34	CAK35

2.1.2 Test methods using a 50-L chambers

2.1.2.1 50-L chamber tests

The material emissions test with 50-L chambers was conducted in accordance with ASTM D 5116-10, which is the standard guide for small-scale environmental chamber determinations of organic emissions from indoor materials/products (ASTM, 2010). Four electro-polished stainless steel 50 L chambers were operated simultaneously. The test conditions were set at 50 % RH, 23 ^{o}C and 1 air change per hour. Three chambers were enclosed in an environmental chamber and the fourth chamber was placed in a room, both of which were maintained at a constant temperature of 23 ± 0.5 ^{o}C. Table 2 summarizes the mean values and standard deviations of environmental conditions monitored over 13 or 14 weeks in each chamber.

Clean air for the chambers was supplied using an Aadco Model 737 Pure Air Generator. The humidity of the supply air was maintained at a constant level of 50 ± 0.25 % RH through the use of mass flow controllers to blend separate streams of Aadco air (one dry and one saturated by bubbling air through HPLC-grade water).

A test lasted for four days with air sampling at 0 h, 1.5 h, 1 day, 2 days, 3 days and 4 days for dry (solid) materials and at 0 h, 1.5 h, 3 h, 6 h, 1 day, 2 days, 3 days and 4 days for wet (liquid) materials. More frequent sampling was used for wet materials to capture the initial decay period better. One background air sample collected for each test was to verify chamber cleanliness. Detailed information on test parameters is summarized in Table A. 2 in the appendix.

Table 2: Environmental conditions of four chambers

Chamber	Relative humidity (%) [1]	Temperature (^{o}C) [1]	Flow rate (mL min^{-1}) [1]
Chamber 1	50 ± 0.19	23.2 ± 0.12	833 ± 0.08
Chamber 2	50 ± 0.17	23.3 ± 0.11	833 ± 0.08
Chamber 3	50 ± 0.10	23.0 ± 0.10	833 ± 0.05
Chamber 4	50 ± 0.13	23.0 ± 0.19	833 ± 0.05

[1] Mean ± Standard Deviation of measurements of 13 or 14 of tests for each chamber

2.1.2.2 Preparation of dry materials

For dry materials, the test specimen was enclosed in an electro-polished stainless steel sample holder (~0.2 m x 0.1 m). The specimen edges were sealed with the specimen holder to ensure a tight fit such that only the upper surface was exposed to the chamber air (Figure 1). The upper surface area was considered as the area for emissions. The exceptions are the specimens with irregular shape, which were tested without a specimen holder (Figure 2). In this case, all the surface areas exposed to air were estimated.

Figure 1: Dry building material specimen in a specimen holder

Figure 2: Dry building material specimen without a holder

2.1.2.3 Preparation of wet materials

For the preparation of wet materials, realistic substrates for each category of materials were used. Paints and wood finishes were applied on a 1/2" thick gypsum board (~0.2 m x 0.1 m; Figure 3) and a maple substrate (~0.2 m x 0.1 m) with a clean paint roller, respectively. Adhesive was applied on a stainless steel sheet metal plate (~0.2 m x 0.1 m) using a clean trowel (Figure 4). The emissions from substrates were shown to be negligible compared to emissions from wet materials in previous studies.

Since the edges of the substrates (gypsum board and maple) may act as sinks of emitted compounds, sealing of substrate edges was required, in particular, for gypsum board and maple. The regular specimen holder used for dry materials could not be used since it was designed to be in contact with the wet surface, which could lead to contamination and replacement of seals for every test. Therefore, a new metal holder that can fit the substrate tightly without any contact with the wet surface was used. However, it should be noted that the edge sealing with the new metal holder was likely to be less tight than the regular specimen holder.

Figure 3: Paint specimen applied on a gypsum board

Figure 4: Adhesive specimen applied on a sheet metal plate

For a caulking specimen, a stainless steel metal channel was used (¼” width x ¼” height x 10" length = 0.635 cm x 0.635 cm x 2.54 cm) to fit the caulking bead (Figure 5). Foam sealants were sprayed into a galvanized metal specimen holder (1” width x 1” height x 10” length = 2.54 cm x 2.54 cm x 25.4 cm) to simulate a large crack (Figure 6).

Figure 5: Caulking specimen applied inside a stainless steel channel

Figure 6: Foam sealant specimen inside a galvanized metal specimen holder

2.1.2.4 Micro-scale chamber tests

A fast screening method using the micro-chamber/thermal Extractor (µ-CTE, Markes Internal) was carried out in accordance with ASTM standard D7706–11 (ASTM, 2011). The six chambers of µ-CTE system were placed in an adjustable heated block. Clean air from Aadco Model 737 Pure Air Generator was supplied to each chamber via a gas restrictor. The test conditions were 50 % RH, 23 ^{o}C and 50 mL min^{-1} of air flow rate. The clean air entered at the top of each chamber and the exhaust flow was collected through an adsorption tube attached to the exhaust port.

It should be noted that the air change rate is very high (174 to 1217 h^{-1} with an average of 486 h^{-1}) compared to the conventional small-scale chamber method that uses an air exchange rate of 1 h^{-1}. The high air exchange rate is due to the reduced chamber size to facilitate a rapid equilibrium that allows the reduction of testing time and cost compared to the conventional method. However, the resulting specific air flow (1.8 to 3.0 with an average of 2.3 m^3 m^{-2} h^{-1}) was similar to that of the conventional method that typically uses an air change rate of 1 h^{-1} and the loading ratio of 0.4 m^2 m^{-3} (2.5 m^3 m^{-2} h^{-1}). Exceptions are the caulking specimens applied inside the stainless steel channel (Figure 5). The specific air flow for a caulking specimen was 2 m^3 m^{-2} h^{-1} in the micro-scale chamber test and 31 m^3 m^{-2} h^{-1} in the small-scale chamber test.

The specimen preparation procedure was similar to that for the small-scale chamber tests. Dry materials were cut into a circular shape with a diameter of approximately 45 mm a couple of hours before a test. The disc-shaped test specimen was raised using a spacer until the emitting surface forms one wall of a reduced-volume chamber. Wet materials were applied on substrates (45 mm diameter). For example, paint and wood stain specimens were applied on a

gypsum board and a maple substrate, respectively (Figure 8). Adhesive and caulking was applied on a glass disc (Figure 9). Foam sealants were prepared in a Petri-dish (Figure 10)

The test duration and the air sampling frequency were the same as that for the small-scale chamber test. Detailed information on test parameters is summarized in Table A. 3 in the appendix.

Figure 7: Vinyl flooring specimens for the micro-chamber test

Figure 8: Paint and wood stain specimens applied on a gypsum board or maple substrate for a micro-chamber test

Figure 9: Adhesive specimens applied on glass discs for the micro-chamber test

Figure 10: Foam sealant specimen sprayed into a Petri-dish for the micro-chamber test

2.2 Chemical analysis

The target list was assembled to include 1) compounds frequently detected in indoor air and 2) compounds that are emitted from building materials (California Department of Health Services, 2003, Committee for Health-related Evaluation of Building Products (AGBB), 2010, Magee et al., 2005, Won et al., 2005). The sampling and chemical analysis method was tailored to detect a total of 124 target compounds shown in Table 4.

Three different sampling media (Table 3) were used to cover the diverse characteristics of the target compounds. The majority of the target compounds were sampled on a two-layer sorbent tube consisting of Tenax TA and Carbograph 5D. They include:

- Volatile organic compounds (VOCs) that elute between hexane and hexadecane
- Very volatile organic compounds (VVOCs) that elute before hexane, including 1,3-butadiene, ethylene oxide and propylene oxide.

The sampled tubes were thermally desorbed and analyzed with gas chromatography-mass spectrometry (TD/GC/MS). The choice of two-layer tubes was motivated by the fact that Tenax TA is typically used for VOC sampling and that Carbograph 5D is suitable for sampling of VVOCs such as 1,3-butadiene (Won and Yang, 2012b).

Low molecular weight and thermally labile compounds were sampled on media coated with a derivatizing agent of 2,4-dintrophenylhydrazine (DNPH) or pentafluorophenylhydrazine (PFPH). DNPH cartridges were extracted with acetonitrile and analyzed with high performance liquid chromatography with a UV detector (HPLC/UV). Acrolein was sampled on a Tenax tube coated with PFPH, which was analyzed with TD/GC/MS.

Table 3: Sampling media and chemical analysis methods

	Group 1	Group 2	Group 3
Target compounds	• VOCs: compounds between hexane and hexadecane • VVOCs: 1,3-butadiene, ethylene oxide, and propylene oxide	• Acrolein	Low molecular aldehydes • Formaldehyde • Acetaldehyde • Propanal
Sampling media	2-layer sorbent tube (Tenax TA & Carbograph 5TD)	Tenax TA tube coated with PFPH	Commercial cartridge coated with DNPH
Sampling volume	• 1.5 to 6 L for liquid-based specimens (10 to 20 min at 150 to 300 mL min^{-1}) • 6 to 9 L for dry specimens (20 to 30 min at 300 mL min^{-1})	6 to 12 L (60 to 120 min at 100 mL min^{-1})	18 to 36 L (60 to 120 min at 300 mL min^{-1})
Extraction	Thermal	Thermal	Liquid
Analysis	GC/MS	GC/MS	HPLC/UV

Table 4: Properties and method detection limits of 124 NRC ME target compounds

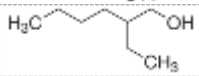
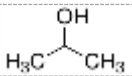
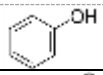
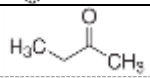
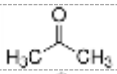
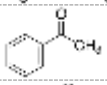
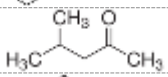
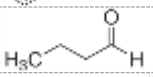
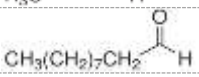
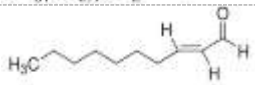
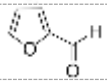
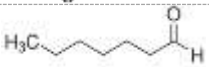
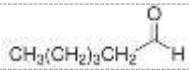
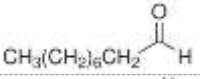
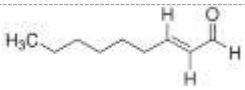
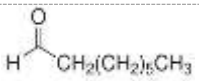
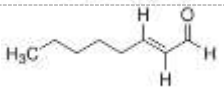
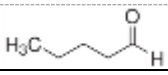
#		CAS # [a]	Compound	MW [b]	BP [c]	Qion [d]	MDL (ng) [e]	Structure
1	Alcohols [f]	71-36-3	1-Butanol	74	114	56	1.3	
2		71-23-8	1-Propanol	60	90	59	1.3	
3		104-76-7	Hexanol, 2-ethyl-1-	130	189	57	1.1	
4		67-63-0 [i]	2-Propanol	60	67	45	1.1	
5		64-17-5	Ethanol	46	65	45	1.5	CH_3CH_2OH
6		108-95-2	Phenol	94	170	94	2.7	
7	Aldehydes & ketones [f]	78-93-3	Methylethyl ketone	72	70	43	0.7	
8		67-64-1	Acetone	58	45	43	2.3	
9		98-86-2	Acetophenone	120	190	105	1.5	
10		108-94-1	Cyclohexanone	98	155	55	2.3	
11		108-10-1	Methylisobutyl ketone	100	105	43	0.9	
12		100-52-7	Benzaldehyde	106	181	106	2.0	
13		123-72-8	Butanal	72	85	44	5.1	
14		112-31-2	Decanal	156	216	82	0.9	
15		3913-81-3	2-Decenal	154	222	55	2.0	
16		98-01-1	Furfural	96	144	96	1.4	
17		111-71-7	Heptanal	114	155	70	2.5	
18		66-25-1	Hexanal	100	132	56	6.0	
19		124-19-6	Nonanal	142	196	57	1.4	
20		18829-56-6	2-Nonenal	140	203	55	3.2	
21		124-13-0	Octanal	128	176	84	3.3	
22		2548-87-0	2-Octenal	126	182	55	2.0	
23		110-62-3	Pentanal	86	109	44	6.0	

Table 4 (continued)

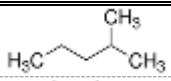
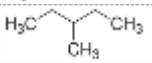
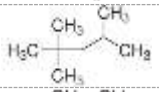
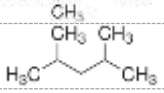
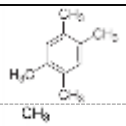
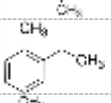
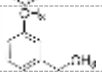
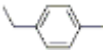
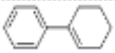
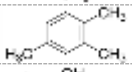
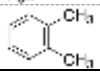
#		CAS # [a]	Compound	MW [b]	BP [c]	Qion [d]	MDL (ng) [e]	Structure
24	Aliphatic Hydrocarbons [f]	107-83-5	Pentane, 2-methyl-	86	56	71	1.0	
25		96-14-0	Pentane, 3-methyl-	86	56	57	0.7	
26		540-84-1	2,2,4-Trimethylpentane	114	81	57	0.9	
27		108-08-7	2,4-Dimethylpentane	100	66	57	0.8	
28		124-18-5	Decane	142	165	57	0.8	$CH_3(CH_2)_8CH_3$
29		112-40-3	Dodecane	170	206	57	0.8	$CH_3(CH_2)_{10}CH_3$
30		142-82-5	Heptane	100	96	71	0.8	$CH_3(CH_2)_5CH_3$
31		544-76-3	Hexadecane	226	277	57	0.8	$CH_3(CH_2)_{14}CH_3$
32		110-54-3	Hexane	86	72	57	0.9	$CH_3(CH_2)_4CH_3$
33		111-84-2	Nonane	128	143	57	0.7	$CH_3(CH_2)_7CH_3$
34		111-65-9	Octane	114	120	43	0.6	$CH_3(CH_2)_6CH_3$
35		629-62-9	Pentadecane	212	261	57	0.9	$CH_3(CH_2)_{13}CH_3$
36		629-59-4	Tetradecane	198	243	57	0.8	$CH_3(CH_2)_{12}CH_3$
37		629-50-5	Tridecane	184	225	57	1.0	$CH_3(CH_2)_{11}CH_3$
38		1120-21-4	Undecane	156	186	57	1.0	$CH_3(CH_2)_9CH_3$
39	Aromatic hydrocarbons [f]	95-93-2	Benzene, 1,2,4,5-tetramethyl-	134	191	119	0.9	
40		611-14-3	Toluene, 2-ethyl-	120	170	105	1.2	
41		620-14-4	Toluene, 3-ethyl-	120	170	105	0.8	
42		622-96-8	Toluene, 4-ethyl-	120	170	105	0.7	
43		31017-40-0	Cyclohexene, 4-phenyl	158	244	104	1.6	
44		71-43-2 [e]	Benzene	78	102	78	1.5	
45		526-73-8	Benzene, 1,2,3-trimethyl-	120	170	105	1.0	
46		95-63-6	Benzene, 1,2,4-trimethyl-	120	170	120	1.2	
47		95-47-6 [e]	Benzene, 1,2-dimethyl-	106	148	91	0.9	

Table 4 (continued)

#		CAS # [a]	Compound	MW [b]	BP [c]	Qion [d]	MDL (ng) [e]	Structure
48	Aromatic Hydrocarbons (continued) [f]	108-67-8	Benzene, 1,3,5-trimethyl-	120	170	105	0.9	
49		108-38-3 [e]	Benzene, 1,3&(4)-dimethyl-	106	148	91	1.5	
50		98-82-8	Benzene, isopropyl	120	157	105	1.4	
51		103-65-1	Benzene, propyl-	120	170	91	1.4	
52		100-41-4 [e]	Ethylbenzene	106	148	91	0.7	
53		91-20-3	Naphthalene	128	232	128	1.6	
54		99-87-6	p-Cymene	134	178	119	1.3	
55		100-42-5	Styrene	104	147	104	0.9	
56		108-88-3	Toluene	92	126	91	4.6	
57		98-83-9	2-Phenylpropene	118	163	118	1.4	
58		95-13-6	Indene	116	182	115	1.2	
59	Esters [f]	108-21-4	Acetic acid, 1-methylethyl ester	102	88	43	1.1	
60		111-15-9	Acetic acid, 2-ethoxyethyl ester	132	149	59	1.3	
61		123-86-4	Acetic acid, butyl ester	116	126	43	0.9	
62		141-78-6	Acetic acid, ethyl ester	88	78	43	0.7	
63		80-62-6	Methyl methacrylate	100	94	69	1.8	
64		103-09-3	2-Ethylhexyl acetate	172	199	70	1.2	
65		96-48-0	Butyrolactone	86	177	42	2.4	
66		25265-77-4	Texanol	216	258	71	2.6	
67		6846-50-0	TXIB *	286	272	71	2.1	

*TXIB: 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate

Table 4 (continued)

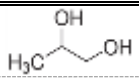
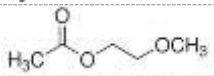
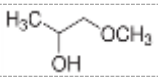
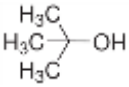
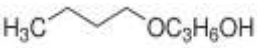
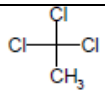
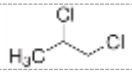
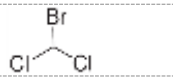
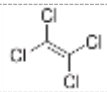
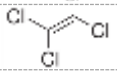
#		CAS # [a]	Compound	MW [b]	BP [c]	Qion [d]	MDL (ng) [e]	Structure
68	Glycols, GlycoEthers [f]	57-55-6	1,2-Propanediol	76	155	45	16.1	
69		110-49-6	2-Methoxyethylacetate	118	127	43	3.6	
70		111-90-0	Diethylene glycol monoethyl ether	134	202	45	8.5	
71		107-98-2	Propanol, 1-methoxy-2-	90	117	45	2.6	
72		111-76-2	Ethanol, 2-butoxy-	118	181	87	3.3	$CH_3CH_2CH_2CH_2OCH_2CH_2OH$
73		112-34-5	Ethanol, 2-butoxyethoxy-	162	240	45	2.6	$CH_3CH_2CH_2CH_2OCH_2CH_2OCH_2CH_2OH$
74		110-80-5	Ethanol, 2-ethoxy-	90	138	59	6.4	$CH_3CH_2OCH_2CH_2OH$
75		109-86-4	Ethanol, 2-methoxy-	76	115	45	3.8	$CH_3OCH_2CH_2OH$
76		75-65-0	Propanol, 2-methyl-2-	74	70	59	3.7	
77		5131-66-8	Proylene glycol monobutyl ether	132	183	57	1.9	
78	Halo Carbons [f]	71-55-6	1,1,1-Trichloroethane	133	66	97	1.1	
79		95-50-1	1,2-Dichlorobenzene	147	182	146	1.4	
80		107-06-2 [i]	1,2-Dichloroethane	99	105	62	0.7	$ClCH_2CH_2Cl$
81		78-87-5	1,2-Dichloropropane	113	101	63	0.5	
82		106-46-7 [i]	1,4-Dichlorobenzene	147	175	146	1.3	
83		75-27-4	Bromodichloromethane	164	118	83	0.9	
84		56-23-5 [i]	Carbon tetrachloride	154	80	117	1.0	CCl_4
85		67-66-3 [i]	Chloroform	119	91	83	0.6	$CHCl_3$
86		124-48-1	Dibromochloromethane	208	143	129	0.7	$ClCHBr_2$
87		75-09-2 [i]	Dichloromethane	85	80	84	1.5	CH_2Cl_2
88		127-18-4 [i]	Tetrachloroethylene	166	114	166	0.8	
89		79-01-6	Trichloroethylene	131	85	130	3.9	
90		79-34-5 [i]	1,1,2,2-Tetrachloroethane	168	150	83	1.5	$Cl_2CHCHCl_2$

Table 4 (continued)

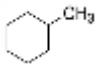
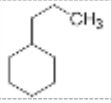
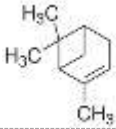
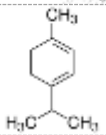
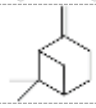
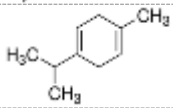
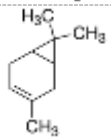
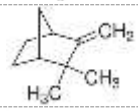
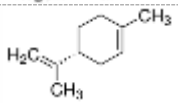
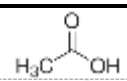
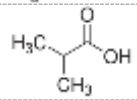
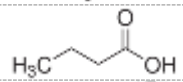
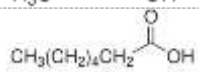
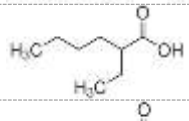
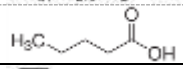
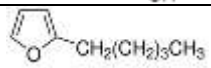
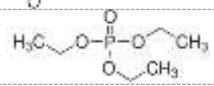
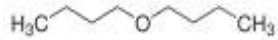
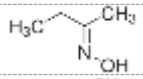
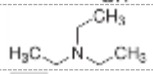
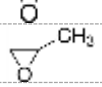
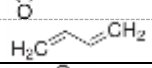
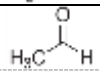
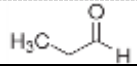
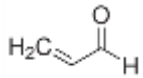
#		CAS # [a]	Compound	MW [b]	BP [c]	Qion [d]	MDL (ng) [e]	Structure
91	Cyclo Alkanes [f]	108-87-2	Methylcyclohexane	98	107	83	1.0	
92		110-82-7	Cyclohexane	84	90	84	0.8	
93		1678-93-9	Cyclohexane, butyl-	140	174	83	1.3	
94		1678-91-7	Cyclohexane, ethyl-	112	130	83	1.1	
95		1678-92-8	Cyclohexane, propyl-	126	153	83	1.4	
96		91-17-8	Decahydronaphthalene	138	180	138	1.4	
97	Terpenes [f]	80-56-8	alpha-Pinene	136	157	93	0.8	
98		99-86-5	alpha-Terpinene	136	169	121	3.1	
99		127-91-3	beta-Pinene	136	151	93	0.9	
100		99-85-4	gamma-Terpinene	136	169	93	1.0	
101		13466-78-9	3-Carene	136	157	93	1.3	
102		79-92-5	Camphene	136	151	93	1.2	
103		5989-27-5	Limonene	136	168	68	0.8	

Table 4 (continued)

#		CAS # [a]	Compound	MW [b]	BP [c]	Qion [d]	MDL (ng) [e]	Structure
104	Acids [f]	64-19-7	Acetic acid	60	122	60	22.4	
105		79-31-2	Isobutyric acid	88	154	73	5.2	
106		107-92-6	Butyric acid	88	167	60	22.7	
107		111-14-8	Heptanoic acid	130	227	60	4.1	
108		149-57-5	2-Ethylhexanoic acid	144	234	88	3.0	
109		142-62-1	Hexanoic acid	116	208	60	2.8	
110		109-52-4	Pentanoic acid	102	188	60	21.7	
111	Other [f]	3777-69-3	Furan, 2-pentyl	138	176	81	4.0	
112		872-50-4	2-Pyrrolidinone, 1-methyl-	99	202	99	1.7	
113		123-91-1	1,4-Dioxane	88	103	88	1.2	
114		78-40-0	Triethyl phosphate	182	233	99	2.2	
115		142-96-1	n-Butyl ether	86	56	57	1.0	
116		96-29-7	2-Butanone oxime	87	157	42	2.4	
117		121-44-8	Triethylamine	101	95	86	5.9	
118		75-21-8 [i]	Ethylene oxide	44	12	44	1.4	
119		75-56-9 [i]	Propylene oxide	58	31	58	3.2	
120		106-99-0 [i]	1,3-Butadiene	54	16	54	3.1	
121	DNPH [g]	75-07-0 [i]	Acetaldehyde	44	34		16.1	
122		50-00-0	Formaldehyde	30	10		15.2	
123		123-38-6 [i]	Propanal	58	60		20.3	
124	PFPH [h]	107-02-8 [i]	Acrolein	56	58		2.6	

[a] CAS #: Chemical Abstracts Service number, [b] MW: molecular weight, [c] BP: boiling point from EPI Suite (US EPA, 2011); [d] Qion: quantifying ions used for quantification; [e] MDL: method detection limit; [f] Tenax/Carbograph 5TD sampling; [g] DNPH sampling; [h] PFPH sampling; [i] Health Canada targets

2.2.1 Two-layer sorbent tube sampling and analysis

The two-layer sorbent tube (178 x 6 x 4 mm) packed with Carbograph 5TD (180 mg) and Tenax TA (106 mg) was purchased from CAMSCO. Sampling was conducted using a mass flow controlled pump at 300 mL m^{-1} for 20 to 30 min, leading to a sampling volume of 6 to 9 L for the test of dry materials. The sampling volume was decreased to 1.5 to 6 L for highly concentrated samples from liquid-based materials (Table 3).

Air samples collected on sorbent tubes were thermally desorbed and analyzed with a GC/MS system, including a Gerstel thermal desorption unit (TDS) connected with an autosampler (TDS-A), an Agilent 6890 Gas Chromatograph equipped with a DB-624 capillary column (30 m × 0.25 mm I.D. × 1.4 µm thickness), and a 5973N Mass Selective Detector. The desorbed analytes were injected using a Gerstel programmable temperature vaporizer called a Cooled Injection System (CIS), which concentrated the sample prior to injection onto the Agilent 6890 column. The MS was operated in the full scan mode (*m/z* 28 to 300).

Temperature profiles for the thermal desorption and GC/MS analyses are as follows:

• Thermal desorption conditions: initial temperature of 30 °C to a final temperature 300 °C with a rate of 60 °C min^{-1} with a holding time of 5 min at the end.

• CIS conditions: initial temperature of -120 °C to a final temperature of 350 °C with a rate of 12°C s^{-1} with a holding time of 3 min at the end.

• GC conditions: an initial temperature of -10 °C holding 4 min, then increasing to a temperature of 230 ^{o}C with a rate of 6°C min^{-1}.

Calibration of 121 compounds was performed using two sets of gas mixtures and three sets of liquid mixtures. For very volatile organic compounds (VVOCs), two gas mixtures in nitrogen were purchased from MEGS, one for 1,3-butadiene (1 ppm) and the other for ethylene oxide and propylene oxide (1 ppm of each). For the calibration of regular VOCs, a commercial calibration mixture (Japanese Indoor Air Standards mixture; 100 µg mL^{-1} each in methanol: water = 19: 1) and two custom-made standard mixtures (Custom A and Custom B, 500 µg mL^{-1} for each chemical in methanol) were purchased from Supelco Inc .

The calibration gas or liquid mixture was injected onto the glass frit of the two-layer sorbent tube while air was pumped into the tube at 50 - 100 mL min^{-1} for 2 minute. The calibration was performed in two sets to accommodate the wide range of concentrations by using a CIS inlet split ratio of 20:1 (Splitless Desorption) for low concentration samples, and a desorption split 50:1 and CIS split 20:1 (a total split ratio of 1000:1) for high concentration samples. A 5-point calibration was achieved via introduction five different volumes of calibration mixture onto the tubes resulting five concentration levels, whose range is indicated in Table 5. Linear calibration curves were obtained with an R^2 value between 0.92 and 0.99, with lower R^2 values for acids, esters and glycol ethers.

Compounds were identified by comparing their mass spectrum with the NIST Mass Spectral Library (NIST98, version 1.7a) and retention time with those from the standard mixtures. They were identified by target ions and quantified by peak areas from the quantification ion. The quantifying ions are summarized in Table 4.

Table 5: Ranges and correlation coefficients (R^2) of calibration curves

Tyoe of mixture	1,3-Butadiene Gas Mix	Oxides Gas Mix	Custom Mix A Liquid Mixture	Custom Mix B Liquid Mixture	Japanese IAQ Mix Liquid Mixture
Range & R^2 for split ratio of 20:1	5-44 ng (R^2: 0.99)	5-50 ng (R^2: 0.99)	100-1000 ng (R^2 : 0.94 – 0.99)	10-100 ng (R^2 : 0.92 – 0.99)	5-50 ng (R^2 : 0.95 -0.99)
Range & R^2 for split ratio of 1000:1			500-5000 ng (R^2 : 0.94 – 0.99)	500-5000 ng (R^2 : 0.93 – 0.99)	100-1000 ng (R^2 : 0.97 – 0.99)

2.2.2 PFPH tube sampling and analysis

A Gerstel Tenax TA tube (178 x 6 x 4 mm) was coated with 1 µmol of PFPH using an in-house coating system (Won and Yang, 2012b). The sampling volume was 6 to 12 L at 100 mL min^{-1} for 60 to 120 min. After sampling, all samples were stored at room temperature at least for three days to ensure complete reaction of collected compounds and PFPH before being analyzed.

Samples collected on PFPH-coated tubes were thermally desorbed and analyzed with GC/MS coupled a Gerstel thermal desorption unit (TDS-3) connected with an autosampler (TDS-A), an Agilent 6890 Gas Chromatograph equipped with a DB-5MS capillary column (30 m × 0.25 mm I.D. × 0.25 µm thickness), and a 5973N Mass Selective Detector. The Gerstel system was operated in the TDS splitless /CIS split mode (split ratio of 20:1) and the MS was operated in the full scan mode (*m/z* 35 to 300) to obtain the information for all compounds contained in the sample.

Temperature profiles for the thermal desorption and GC-MS analysis are as follows:

• Thermal desorption condition: an initial temperature of 30°C to a final temperature 300 °C with a rate of 60°C min^{-1} with a holding time of 5 min at the end.

• CIS condition: an initial temperature of -90 °C to a final temperature of 300 °C with a rate of 12°C s^{-1} with a holding time of 3 min at the end.

• GC condition: an initial temperature of 30 °C holding 4 min to a temperature 100 °C with a rate of 7 °C min^{-1}, then to a final temperature of 300 ^{o}C with a rate of 8°C min^{-1}. The holding time at the final temperature was 5 min.

Calibration for acrolein was performed by analyzing Tenax tubes spiked with acrolein-PFPH derivative prepared in hexane. The liquid calibration standard was prepared by mixing customized carbonyl standards (provided by Supelco Inc.) with PFPH, of which concentration was in excess by at least 30 times more than the total moles of carbonyls in hexane. The carbonyl standard mixture included acrolein, pentanal, hexanal, acetone, acetaldehyde, formaldehyde, benzaldehyde, butanal, propanal, furfural, heptanal, nonanal, 2-nonenal, octanal, 2-octenal, decanal and 2-decenal with 500 µg ml^{-1} each. Calibration samples were prepared by injecting 1, 2.5, 5, 7.5 and 10 µL of the prepared liquid calibration solution onto Tenax tubes, resulting in five concentration levels from 5 ng to 50 ng of acrolein-PFPH derivative per sample. The calibration curves were then established by plotting the peak area of the quantification ion (*m/z* = 236 as quantification ion, and *m/z* = 155, 182, 236 as target ion)

versus the injected mass from the calibration standard. For the acrolein-PFPH derivatives, correlation coefficient (R^2) of calibration curves ranged from 0.943 to 0.994. Acrolein-PFPH peak in the test samples was identified by comparing its mass spectrum with the target ions, and quantified by the quantification ion.

2.2.3 DNPH cartridge sampling and analysis

Waters Sep-Pak XPoSure Aldehyde samplers, which contained acidified DNPH-coated silica, were used for sampling of low molecular carbonyl compounds. Sampling was conducted at 300 mL min^{-1} for 60 to 120 min to give sampling volumes of 18 to 36 L.

Analysis of carbonyl compounds was performed in accordance with ASTM D5197 and EPA TO-11. Exposed cartridges were washed with acetonitrile, and the eluate then analyzed by reverse phase HPLC with UV detection at 360nm (Varian Model 9012 Solvent Delivery System/ 9050 Variable Wavelength UV-VIS Detector / Prostar 410 Autosampler; two Supelcosil LC-18 columns (25 cm x 4.6 mm, 5 μm) in series at 30 ^{o}C). A gradient of acetonitrile in water from 60 % to 100 % was used for separation of the carbonyl compounds. System calibration was performed using a six-point calibration from a commercial DNPH derivative mixture (TO-11/IP-6A Aldehyde/Ketone reference standard from Supelco, Inc). Linear calibration curves were produced with R^2 between 0.9997 and 0.9999.

2.2.4 Quality control and assurance analysis

2.2.4.1 Method detection limit

The method detection limit (MDL) was determined in accordance with the Code of Federal Regulations established by US EPA (40CFR136 Appendix B) (US EPA, 1986). The MDL was determined by analyzing seven replica of a calibration tube spiked with the lowest level of the calibration range. The MDL was calculated by multiplying the standard deviation of the seven measurements with Student's t value of 3.14. The resulting method detection limits are summarized in Table 4.

2.2.4.2 Background and blank samples

The quality control procedure involved the analysis of blank and background samples. Blank samples were analyzed for each run of GC/MS and HPLC/UV. In particular, care was given to in-house made PFPH tubes as they tend to have high blank levels partly due to the impurities in coating materials and contamination during the coating process. After a batch of tubes were coated with PFPH, a tube was set aside as a blank tube and later analyzed with sampled tubes to check the cleanliness of PFPH tubes.

The acrolein level in blank PFPH tubes ranged between 4.1 and 14.8 ng with an average of 7.1 ng. DNPH cartridges showed the blank level of 20 ng for formaldehyde, 76 ng for acetaldehyde and 0 ng for propanal on average. In general, the DNPH and PFPH blank levels

were higher than MDL. Therefore, the concentration of each sample was calculated after the corresponding blank level was subtracted. Tenax-Carbograph tubes did not show high levels of blank values above MDL (2.6 ng). Therefore, no blank subtraction was made for Tenax-Carbograph samples.

Background samples were collected in empty chambers prior to each test at the highest sampling volume employed for three sampling methods. The background levels were also higher than MDL for DNPH and PFPF sampling methods. Therefore, background levels were subtracted from the chamber concentrations when the emission factor was estimated as shown in Section 2.3.

2.2.4.3 Stability of sampled tubes

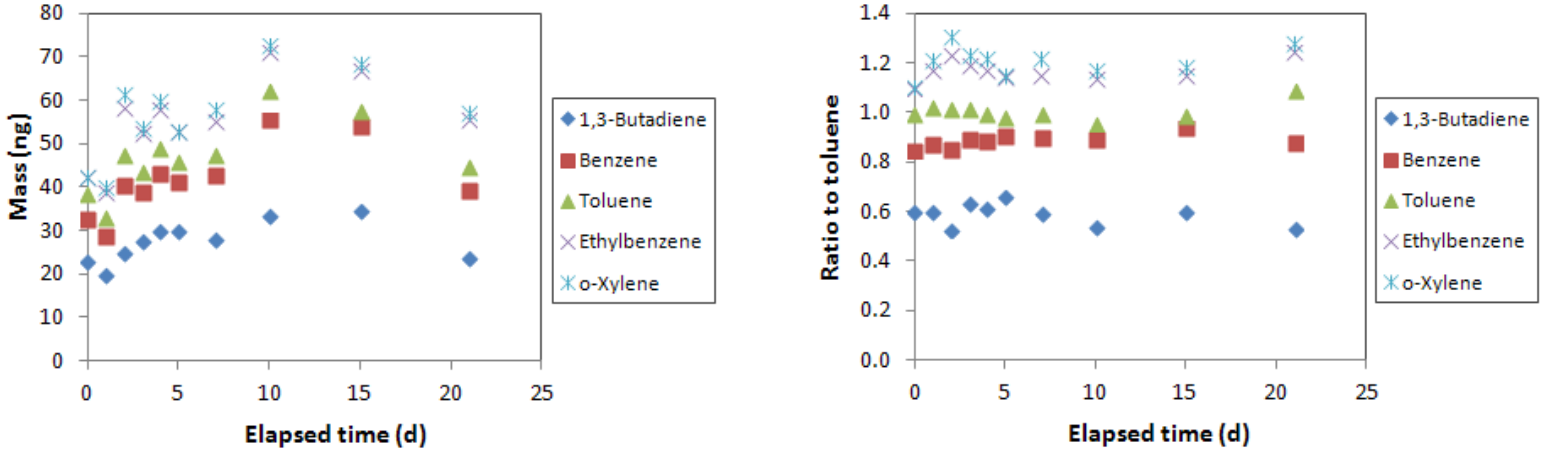
To check the stability of VOCs on samples tubes, two gas mixtures were purchased from MEGS. The components of two cylinders are summarized in Table 6. Mixture 1 contained 1,3-butadiene, benzene, toluene, ethylbenzene and *o*-xylene at 1 ppm each. Mixture 2 contained ethylene oxide and propylene oxide at 1 ppm each. Ten Tenax-Carbograph tubes were spiked with 10 mL of each gas mixture using an air-tight syringe and were analyzed at different dates over 21 days.

The mass collected in each tube is shown in Figure 11 and Figure 12 for Mixture 1 and 2, respectively. The relative standard deviation was calculated for each compound in Table 6. All compounds showed a relative standard deviation less than 20 %. One exception was propylene oxide, whose mass was reduced by 83 % in five days. There was a linear decrease of the propylene oxide mass in the first five days. To compensate the variability due to inconsistency in preparing standard tubes (e.g., variations in the injection volume and speed), the relative standard deviation was also calculated based on the ratio to toluene. The variability improved to 3 – 8 % (Table 6).

Therefore, it can be concluded that the majority of the variability measured for 1,3-butadiene and ethylene oxide is likely to be caused by the operator and the two compounds tend to be stable over 21 days. On the other hand, propylene oxide is unstable with a linear deterioration over the first 5 days.

Table 6: Stability of gas mixtures over 21 days

Gas mixture	Composition & concentration	Relative standard deviation of mass (%)	Relative standard deviation of ratio to toluene (%)
Mixture 1	1,3-Butadiene (1 ppm) Benzene (1 ppm) Toluene (1 ppm) Ethylbenzene (1 ppm) o-Xylene (1 ppm)	17 % 20 % 18 % 18 % 18 %	8 % 3 % - 4 % 5 %
Mixture 2	Ethylene oxide (1 ppm) Propylene oxide (1 ppm)	15 % 73 %	- -



(a) Mass

(b) Relative mass to toluene mass

Figure 11: Stability of 1,3-butadiene for 21 days

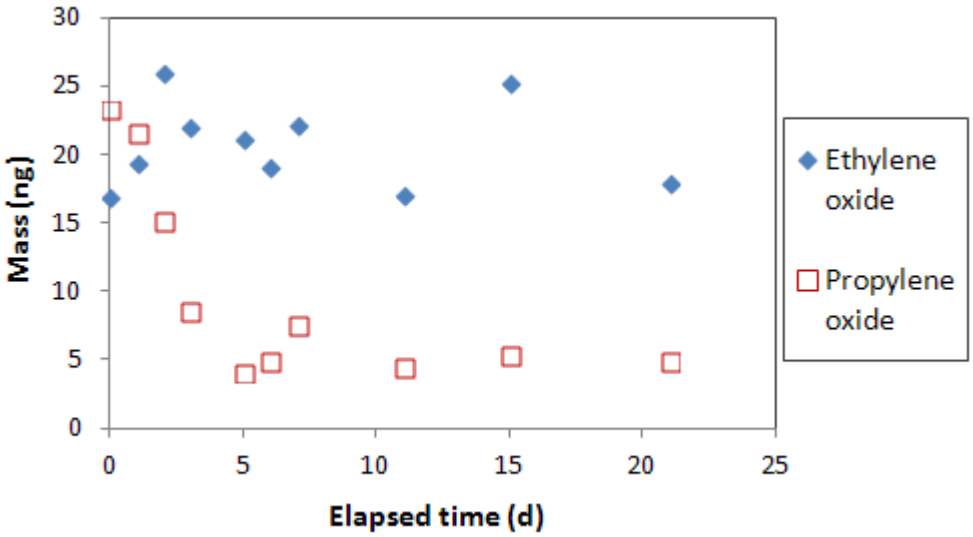


Figure 12: Stability of oxides for 21 days

2.3 Estimation of indoor air concentrations

2.3.1 Emission factors

This section explains the method of calculating emission factors based on chamber air concentration data. The mass balance of a chemical compound for the chamber can be expressed by Eq. (1):

$$V\frac{dC}{dt} = QC_{in} - QC + EA \qquad (1)$$

where E is the emission factor (μg m^{-2})
C is the chamber air concentration (μg m^{-3})
C_{in} is the concentration of the supplied air (μg m^{-3}), which is assumed to be the background chamber concentration
Q is the chamber flow rate (m^3 h^{-1})
A is the specimen surface area or weight (m^2)
If the chamber is at quasi-steady state, Eq. (1) can be simplified as:

$$E = \frac{Q\,(C - C_{in})}{A} \qquad (2)$$

The time-varying emission factor was assumed to follow the power-law decay model, which was typically used to express the emissions from dry building materials.

$$E = a\,t^{-b} \qquad (3)$$

where a and b are empirical coefficients
t is the time (h)

The emission factors calculated from the chamber concentrations were used to estimate best-fit coefficients of Eq. (3) through curve fitting. Since it takes about 2.3 hours for a small-scale chamber concentration to reach 90 % of the equilibrium concentration at an air change rate of 1 h^{-1}, the data after 2.3 hours were used for curve-fitting. This means the curve-fitting was done for the data between 24 hours and 4 days for dry materials and between 3 hours and 4 days for wet materials. Exceptions are the data sets associated with DNPH and PFPH sampling, for which the data between 2.3 hours and 24 hours was used even for dry materials. If the emission factor has an increasing trend between 2.3 hours and 4 days, no curve-fitting results are reported. This is to prevent extrapolation beyond 4 days, after which the concentration is likely to decrease eventually due to the limited supply of a chemical in the tested material. For both small-scale and micro-scale tests, about 15 % of the compounds emitted had an increasing trend between 2.3 hours and 4 days. The increasing trend was typically observed with compounds with low emission factors, which tend to have higher uncertainties.

2.3.2 Indoor air concentrations

The indoor air concentration was calculated by plugging Eq. (3) into Eq. (1). Eq. (1) was solved using the explicit Euler method. Since no data in the early stage of emissions, e.g., before 24 h, was involved in curve-fitting of Eq. (3), the emission factor between 0 and the time with the 1st measured data point (t_1) was considered to be constant as shown:

$$E = a\,t_1^{-b} \qquad \text{when } t < t_1 \qquad (3)$$

$$E = a\,t^{-b} \qquad \text{when } t > t_1 \qquad (3)$$

where t is the time (h) and t_1 is the time when the 1st measurement was made, which was 24 hours for VOCs from dry materials, 2.3 hours for formaldehyde, acetaldehyde and acrolein from dry materials, and 3 hours for all compounds from wet materials as mentioned in Section 2.3.1.

This is an arbitrary measure to prevent the indoor air concentration from being predicted unrealistically high during the early period, which can typically stem from the limitation associated with empirical modeling of fast-decaying sources with limited data points. However, introducing the constant emission for the early emission period won't affect the indoor air concentration predictions for the longer-term emission periods. One example is given in Figure 13 and Figure 14. Figure 13 shows the curve-fitting results of emission factors with and without a constant emission assumption between 0 and 24 h. The symbols correspond to measured emission factors and the lines are predicted emission factors. Figure 14 presents indoor air concentrations predicted with the two emission factor models obtained in Figure 13. After 24 hours, the predicted emission factors and indoor concentrations are identical for both cases.

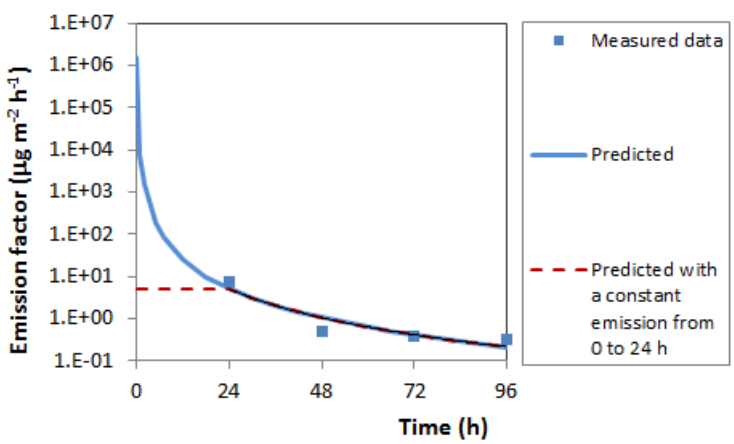


Figure 13: Comparison of emission factors predicted with and without a constant emission factor between 0 and 24 h (toluene from INS2)

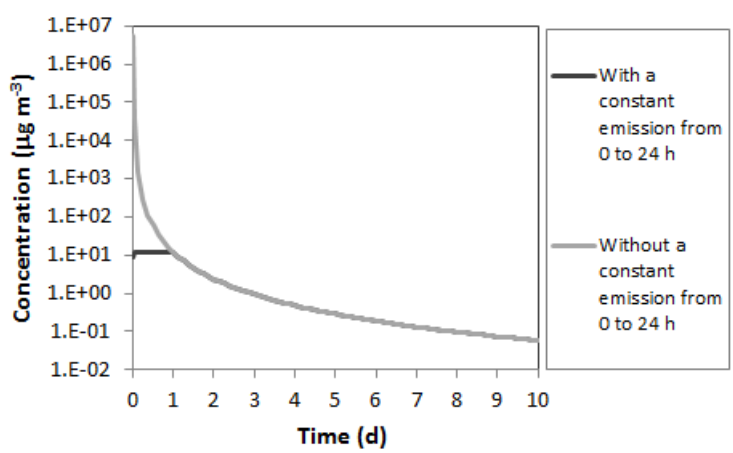


Figure 14: Comparison of indoor air concentrations predicted with and without a constant emission factor between 0 and 24 h (toluene from INS2)

The indoor air concentration was estimated based on material usage scenarios. The required information for the scenario analysis, including the house volume (*V*), air exchange rate (*N*), and amount of building materials/consumer products (*A*) is given in Table 7. The values in Table 7 are for a single family residence based on the methodology utilized by the California Department of Public Health (California Department of Health Services, 2010). The flooring consisted of 9 % vinyl, 52 % carpets, 20 % hardwood and 16 % tile. No adhesive was assumed to be used for floor installation except for vinyl flooring. Emissions from tile were assumed to be negligible. It was assumed that regular caulking (around 10 windows) and foam sealant (around 9 windows) were applied around windows.

Table 7: House volume and materials used in a single family resident for a scenario analysis

House volume			543	m^3	
Ventilation rate			0.23	h^{-1}	
Materials	Vinyl flooring	9 % of floors (glue)	18.99	m^2	VF33a [3]
	Hardwood flooring	20 % of floors (no glue used)	42.2	m^2	EWF1 [3]
	Carpets	52 % of floors (no glue used)	109.72	m^2	CRP11 [3]
	Interior wallboard paint	Water-based paint	779	m^2	PT10 [3]
	Thermal insulation	Insulation board	284	m^2	INS2 [3]
	Caulking	Regular caulking for 10 windows [1]	0.32	m^2	CAK1a [3]
	Caulking (foam sealant)	Foam sealant for 9 windows [2]	0.29	m^2	CAK32 [3]

[1] Caulking with ¼” caulking bead was applied around 10 windows (1 m x 2 m each)

[2] Foam sealant was applied to 1/2” cracks around 9 windows (1 m x 2 m each)

[3] Test ID of a representative material; The emission models from small-scale chamber tests were used for simulation

3 Results and discussion

Chamber concentrations and emission factors are provided in Table A. 1 to Table A. 55 for the small-scale chamber test and in Table A. 56 to Table A. 107 for the micro-scale chamber test. The curve-fitting results for a power-law decay model are also included in the tables. The following observations were made based on the small-scale chamber tests.

3.1 Overview on 124 compounds

3.1.1 Detection frequency

The detection frequency of each compound is given in Table 8 based on the emission factors at 24 hour in small-scale chamber tests. Halogenated compounds were the least frequently detected compounds, followed by glycol ethers.

The compounds not detected in any of the materials include:

- One ester compound (2-ethoxyethyl ester acetic acid)
- Three glycols and glycol ethers (2-methoxyethylacetate, 2-ethoxy ethanol, 2-ethoxy ethanol (glycol and glycol ethers)
- Six chlorinated compounds (1,1,1-trichloroethane, 1,2-dichlorobenzene, carbon tetrachloride, dibromochloromethane, dichloromethane & 1,1,2,2-tetrachloroethane)
- 2-Butanone oxime and 1,3-butadiene

Aromatic hydrocarbons and alcohols are the most frequently detected compounds, followed by aldehydes/ketones and aliphatic hydrocarbons. Individual compounds with a detection frequency more than 50 % included:

- Three alcohols (1-butanol, 2-ethyl-1-hexanol, phenol)
- Six aldehydes/ketones (acetone, acetophenone, benzaldehyde, hexanal, formaldehyde and acetaldehyde)
- Five aliphatic hydrocarbons (decane, dodecane, pentadecane, tetradecane, undecane)
- Twelve aromatic hydrocarbons (2-ethyl toluene, 3-ethyltoluene, 4-ethyltoluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1,2-dimethylbenzene, 1,3(4)-dimethylbenzene, propylbenzene, ethylbenzene, naphthalene, styrene and toluene)
- One ester compound (TXIB)
- One chlorinated compound (trichloroethylene)
- Acrolein

The high detection frequency of trichloroethylene (TCE) was noticeable, considering that it was not detected in any of the 101 materials tested in the previous study (Won and Yang, 2012a). The presence of TCE is likely due to the contaminated laboratory air (55 to 568 $\mu g\ m^{-3}$) rather than the emissions from building materials. The background TCE concentrations of small-scale chamber ranged between 0.3 and 4.4 $\mu g\ m^{-3}$ with an average of 1.9 $\mu g\ m^{-3}$, while the small-scale chamber concentrations were between 0.4 and 32 $\mu g\ m^{-3}$ with an average of 4.3 $\mu g\ m^{-3}$. It appears that the contamination occurred during the storage of tubes before and after sampling. This reasoning is supported by similar observations made for sorbent samples taken in a separate field monitoring study. Although the TCE concentrations were corrected for

background levels when the emission factor was calculated, it may not be sufficient to remedy the contamination problem. The low level of TCE may need to be considered as no TCE.

The frequent detection of acrolein also requires further investigation. Acrolein was detected in all background and blank samples above MDL. The background acrolein concentrations of small-scale chamber ranged from 1.9 to 31.5 μg m^{-3} with an average of 9 μg m^{-3}. The small-scale chamber concentrations were between 0.1 and 336.4 μg m^{-3} with an average of 11.2 μg m^{-3}. The high blank and background levels are likely due to the contamination during the PFPH coating and the storage of the coated tubes. While the acrolein chamber concentrations were corrected for blank and background samples, more fundamental approach may be required to solve the issue. Caution is required for interpreting TCE and acrolein results, in particular, at low concentrations close to the background levels.

3.1.2 Range of emission factors

Descriptive statistics of emission factors at 24 hour are summarized in Table 9 for each compound. The same information is visually presented in Figure 15 and Figure 16 for a group of dry building materials, and Figure 17 and Figure 18 for a group of wet building materials. A wide range of emissions factors were observed for each compound.

Among the compounds emitted from dry building materials, the ratio between the maximum and minimum emission factors was the biggest for TXIB with a value of 10^5. The compounds with a ratio of 10^4 to 10^5 were pentane, tetradecane and 1,3-dimethylbenzene. Compounds emitted from wet materials showed even bigger ranges. For example, the ratio of the maximum and minimum emission factor was:

- 10^7 to 10^8: toluene, ethylbenzene
- 10^6 to 10^7: 1,3-dimethylbenzene and 1,2-dimethylbenzene
- 10^5 to 10^6: ethanol, acetone, decane, dodecane, heptane, undecane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene and formaldehyde
- 10^4 to 10^5: 1-butanol, 2-propanol, 3-methyl pentane, hexane, nonane, 2-ethyl toluene, 3-ethyltoluene, 4-ethyltoluene, isopropyl benzene, propyl benzene and texanol

The same information is further condensed for different classes of compounds in Figure 19, which is based on the minimum and maximum emission factors averaged for each chemical group. Wet building materials tend to have higher maximum emission factors than dry materials. One exception is terpenes, of which the maximum emission factor was higher with dry materials. The ranges between the maximum and minimum emission factors of all classes of compounds were also wider for wet materials. Exceptions were terpenes and acids, which were emitted in a wider range from dry building materials.

Table 8: Detection frequency of 124 compounds based on the emission factors at 24 hour in small-scale chamber tests

#	Class	CAS#	Compound	Detection frequency (#)			Detection frequency (%)		
				All [1]	Solid [2]	Liquid [3]	All [1]	Solid [2]	Liquid [3]
1	Alcohols	71-36-3	1-Butanol	36	22	14	69	88	52
2		71-23-8	1-Propanol	4	3	1	8	12	4
3		104-76-7	Hexanol, 2-ethyl-1-	34	20	14	65	80	52
4		67-63-0	2-Propanol	16	6	10	31	24	37
5		64-17-5	Ethanol	19	9	10	37	36	37
6		108-95-2	Phenol	34	17	17	65	68	63
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	20	11	9	38	44	33
8		67-64-1	Acetone	44	23	21	85	92	78
9		98-86-2	Acetophenone	31	15	16	60	60	59
10		108-94-1	Cyclohexanone	10	10	0	19	40	0
11		108-10-1	Methylisobutyl ketone	11	7	4	21	28	15
12		100-52-7	Benzaldehyde	39	20	19	75	80	70
13		123-72-8	Butanal	14	8	6	27	32	22
14		112-31-2	Decanal	1	1	0	2	4	0
15		3913-81-3	2-Decenal	4	3	1	8	12	4
16		98-01-1	Furfural	10	9	1	19	36	4
17		111-71-7	Heptanal	16	11	5	31	44	19
18		66-25-1	Hexanal	27	19	8	52	76	30
19		124-19-6	Nonanal	14	11	3	27	44	11
20		18829-56-6	2-Nonenal	4	4	0	8	16	0
21		124-13-0	Octanal	9	8	1	17	32	4
22		2548-87-0	2-Octenal	8	7	1	15	28	4
23		110-62-3	Pentanal	22	14	8	42	56	30
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-	4	1	3	8	4	11
25		96-14-0	Pentane, 3-methyl-	8	1	7	15	4	26
26		540-84-1	2,2,4-Trimethylpentane	6	3	3	12	12	11
27		108-08-7	2,4-Dimethylpentane	1	0	1	2	0	4
28		124-18-5	Decane	36	15	21	69	60	78
29		112-40-3	Dodecane	31	16	15	60	64	56
30		142-82-5	Heptane	13	4	9	25	16	33
31		544-76-3	Hexadecane	19	13	6	37	52	22
32		110-54-3	Hexane	13	6	7	25	24	26
33		111-84-2	Nonane	23	9	14	44	36	52
34		111-65-9	Octane	19	7	12	37	28	44
35		629-62-9	Pentadecane	26	13	13	50	52	48
36		629-59-4	Tetradecane	31	16	15	60	64	56
38		1120-21-4	Undecane	34	13	21	65	52	78

Table 8 (continued)

#	Class	CAS#	Compound	Detection frequency (#)			Detection frequency (%)		
				All [1]	Solid [2]	Liquid [3]	All [1]	Solid [2]	Liquid [3]
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-	18	6	12	35	24	44
40		611-14-3	Toluene, 2-ethyl-	29	11	18	56	44	67
41		620-14-4	Toluene, 3-ethyl-	31	14	17	60	56	63
42		622-96-8	Toluene, 4-ethyl-	31	13	18	60	52	67
43		31017-40-0	Cyclohexene, 4-phenyl	10	6	4	19	24	15
44		71-43-2	Benzene	21	9	12	40	36	44
45		526-73-8	Benzene, 1,2,3-trimethyl-	22	10	12	42	40	44
46		95-63-6	Benzene, 1,2,4-trimethyl-	33	15	18	63	60	67
47		95-47-6	Benzene, 1,2-dimethyl-	43	18	25	83	72	93
48		108-67-8	Benzene, 1,3,5-trimethyl-	29	13	16	56	52	59
49		108-38-3	Benzene, 1,3-dimethyl-	48	21	27	92	84	100
50		98-82-8	Benzene, isopropyl	22	8	14	42	32	52
51		103-65-1	Benzene, propyl-	28	12	16	54	48	59
52		100-41-4	Ethylbenzene	48	21	27	92	84	100
53		91-20-3	Naphthalene	32	14	18	62	56	67
54		99-87-6	p-Cymene	25	15	10	48	60	37
55		100-42-5	Styrene	33	18	15	63	72	56
56		108-88-3	Toluene	39	17	22	75	68	81
57		98-83-9	2-Phenylpropene	9	4	5	17	16	19
58		95-13-6	Indene	9	2	7	17	8	26
59	Esters	108-21-4	Acetic acid, 1-methylethyl ester	1	0	1	2	0	4
60		111-15-9	Acetic acid, 2-ethoxyethyl ester	0	0	0	0	0	0
61		123-86-4	Acetic acid, butyl ester	11	5	6	21	20	22
62		141-78-6	Acetic acid, ethyl ester	14	5	9	27	20	33
63		80-62-6	Methyl methacrylate	1	0	1	2	0	4
64		103-09-3	2-Ethylhexyl acetate	4	0	4	8	0	15
65		96-48-0	Butyrolactone	2	2	0	4	8	0
66		25265-77-4	Texanol	15	8	7	29	32	26
67		6846-50-0	TXIB	33	18	15	63	72	56
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol	9	1	8	17	4	30
69		110-49-6	2-Methoxyethylacetate	0	0	0	0	0	0
70		111-90-0	Diethylene glycol monoethyl ether	2	1	1	4	4	4
71		107-98-2	Propanol, 1-methoxy-2-	4	3	1	8	12	4
72		111-76-2	Ethanol, 2-butoxy-	10	6	4	19	24	15
73		112-34-5	Ethanol, 2-butoxyethoxy-	8	3	5	15	12	19
74		110-80-5	Ethanol, 2-ethoxy-	0	0	0	0	0	0
75		109-86-4	Ethanol, 2-methoxy-	0	0	0	0	0	0
76		75-65-0	Propanol, 2-methyl-2-	11	1	10	21	4	37
77		5131-66-8	Proylene glycol monobutyl ether	2	1	1	4	4	4
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane	0	0	0	0	0	0
79		95-50-1	1,2-Dichlorobenzene	0	0	0	0	0	0
80		107-06-2	1,2-Dichloroethane	1	1	0	2	4	0
81		78-87-5	1,2-Dichloropropane	3	0	3	6	0	11
82		106-46-7	1,4-Dichlorobenzene	5	4	1	10	16	4
83		75-27-4	Bromodichloromethane	1	1	0	2	4	0

Table 8 (continued)

#	Class	CAS#	Compound	Detection frequency (#)			Detection frequency (%)		
				All [1]	Solid [2]	Liquid [3]	All [1]	Solid [2]	Liquid [3]
84	Halo Carbons	56-23-5	Carbon tetrachloride	0	0	0	0	0	0
85		67-66-3	Chloroform	6	6	0	12	24	0
86		124-48-1	Dibromochloromethane	0	0	0	0	0	0
87		75-09-2	Dichloromethane	0	0	0	0	0	0
88		127-18-4	Tetrachloroethylene	1	1	0	2	4	0
89		79-01-6	Trichloroethylene	30	19	11	58	76	41
90		79-34-5	1,1,2,2-Tetrachloroethane	0	0	0	0	0	0
91	Cyclo Alkanes	108-87-2	Methylcyclohexane	12	3	9	23	12	33
92		110-82-7	Cyclohexane	6	3	3	12	12	11
93		1678-93-9	Cyclohexane, butyl-	11	2	9	21	8	33
94		1678-91-7	Cyclohexane, ethyl-	11	2	9	21	8	33
95		1678-92-8	Cyclohexane, propyl-	10	1	9	19	4	33
96		91-17-8	Decahydronaphthalene	8	0	8	15	0	30
97	Terpenes	80-56-8	alpha-Pinene	22	19	3	42	76	11
98		99-86-5	alpha-Terpinene	4	1	3	8	4	11
99		127-91-3	beta-Pinene	19	16	3	37	64	11
100		99-85-4	gamma-Terpinene	4	1	3	8	4	11
101		13466-78-9	3-Carene	6	6	0	12	24	0
102		79-92-5	Camphene	7	4	3	13	16	11
103		5989-27-5	Limonene	22	17	5	42	68	19
104	Acids	64-19-7	Acetic acid	21	13	8	40	52	30
105		79-31-2	Isobutyric acid	2	2	0	4	8	0
106		107-92-6	Butyric acid	3	3	0	6	12	0
107		111-14-8	Heptanoic acid	1	1	0	2	4	0
108		149-57-5	2-Ethylhexanoic acid	4	1	3	8	4	11
109		142-62-1	Hexanoic acid	6	6	0	12	24	0
110		109-52-4	Pentanoic Acid	5	5	0	10	20	0
111	Other	3777-69-3	Furan, 2-pentyl	12	9	3	23	36	11
112		872-50-4	2-Pyrrolidinone, 1-methyl-	3	0	3	6	0	11
113		123-91-1	1,4-Dioxane	8	1	7	15	4	26
114		78-40-0	Triethyl phosphate	0	0	0	0	0	0
115		142-96-1	n-Butyl ether	12	2	10	23	8	37
116		96-29-7	2-Butanone oxime	0	0	0	0	0	0
117		121-44-8	Triethylamine	2	0	2	4	0	7
118		75-21-8	Ethylene oxide	2	0	2	4	0	7
119		75-56-9	Propylene oxide	3	0	3	6	0	11
120		106-99-0	1,3-Butadiene	0	0	0	0	0	0
121	DNPH	75-07-0	Acetaldehyde	37	16	21	71	64	78
122		50-00-0	Formaldehyde	41	18	23	79	72	85
123		123-38-6	Propanal	20	12	8	38	48	30
124	PFPH	107-02-8	Acrolein	36	16	20	69	64	74

[1] All tests (52 specimens); [2] Solid (dry) building materials (25 specimens); [3] Liquid (wet) building materials (27 specimens)

Table 9: Summary statistics of emission factors from small-scale chamber tests

#	Class	CAS#	Compound	Emission factor for solid materials [1] ($\mu g\ m^{-2}\ h^{-1}$)				Emission factor for liquid materials [2] ($\mu g\ m^{-2}\ h^{-1}$)			
				Min	Max	Mean	Median	Min	Max	Mean	Median
1	Alcohols	71-36-3	1-Butanol	0.8	32.9	10.0	5.7	0.8	33802.8	2585.1	30.9
2		71-23-8	1-Propanol	0.8	5.7	3.0	2.4	49.9	49.9	49.9	49.9
3		104-76-7	Hexanol, 2-ethyl-1-	0.3	188.0	16.8	3.6	1.6	3708.9	576.8	36.0
4		67-63-0	2-Propanol	0.4	84.9	26.9	4.8	1.4	85759.1	9321.0	29.6
5		64-17-5	Ethanol	0.3	17.4	3.9	1.0	0.8	142536.3	16049.4	47.0
6		108-95-2	Phenol	0.5	1076.3	122.1	19.9	1.9	441.1	53.0	11.1
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	0.2	11.0	2.5	1.0	0.2	89.8	13.6	0.8
8		67-64-1	Acetone	0.6	502.3	67.7	9.2	0.5	68480.4	4575.0	16.7
9		98-86-2	Acetophenone	0.1	6.7	1.1	0.5	0.4	38.6	10.6	3.4
10		108-94-1	Cyclohexanone	0.2	27.6	5.8	1.6				
11		108-10-1	Methylisobutyl ketone	0.6	34.7	7.6	2.0	0.9	19.4	8.9	7.7
12		100-52-7	Benzaldehyde	0.0	52.9	6.5	1.8	1.1	394.0	31.1	3.2
13		123-72-8	Butanal	1.0	51.0	11.1	5.4	3.8	652.7	133.1	14.7
14		112-31-2	Decanal	2.6	2.6	2.6	2.6				
15		3913-81-3	2-Decenal	0.4	3.6	1.7	1.3	67.3	67.3	67.3	67.3
16		98-01-1	Furfural	0.3	7.7	2.8	2.0	2.5	2.5	2.5	2.5
17		111-71-7	Heptanal	0.3	51.9	8.5	3.7	1.9	3.7	2.7	2.4
18		66-25-1	Hexanal	2.9	15674.6	1093.4	37.7	18.1	33373.1	4305.7	127.5
19		124-19-6	Nonanal	0.8	38.1	11.0	5.6	1.3	1.9	1.5	1.5
20		18829-56-6	2-Nonenal	0.4	4.6	1.7	1.0				
21		124-13-0	Octanal	0.5	26.6	6.0	2.2	1.2	1.2	1.2	1.2
22		2548-87-0	2-Octenal	1.5	70.1	14.4	5.3	4.6	4.6	4.6	4.6
23		110-62-3	Pentanal	0.3	527.6	54.1	5.4	1.7	1736.5	224.5	8.3
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-	1.7	1.7	1.7	1.7	15.9	22000.1	7344.0	16.1
25		96-14-0	Pentane, 3-methyl-	0.3	0.3	0.3	0.3	0.9	29908.8	4275.9	5.7
26		540-84-1	2,2,4-Trimethylpentane	0.1	0.2	0.2	0.2	1.2	6.8	3.3	2.0
27		108-08-7	2,4-Dimethylpentane					6.6	6.6	6.6	6.6
28		124-18-5	Decane	0.1	1.6	0.6	0.6	0.2	111247.6	9579.5	44.3
29		112-40-3	Dodecane	0.1	20.8	2.0	0.6	0.4	4195.1	713.0	50.5
30		142-82-5	Heptane	0.8	2.7	1.8	1.9	1.5	228503.3	25415.0	6.1
31		544-76-3	Hexadecane	0.1	62.5	13.1	0.6	0.3	444.1	76.2	1.0
32		110-54-3	Hexane	0.1	0.7	0.4	0.3	2.1	119265.9	17050.5	16.6
33		111-84-2	Nonane	0.1	1.5	0.4	0.3	1.6	101805.7	9321.1	44.2
34		111-65-9	Octane	0.2	2.3	0.9	0.7	1.7	9907.7	921.6	11.2
35		629-62-9	Pentadecane	0.0	301.3	49.9	0.6	0.2	562.3	45.4	1.5
36		629-59-4	Tetradecane	0.0	1201.0	135.0	1.0	0.3	19.5	5.4	3.4
38		1120-21-4	Undecane	0.1	1.9	0.7	0.5	0.1	56959.0	4531.2	19.3

Table 9 (continued)

#	Class	CAS#	Compound	Emission factor for solid materials [1] (µg m^{-2} h^{-1})				Emission factor for liquid materials [2] (µg m^{-2} h^{-1})			
				Min	Max	Mean	Median	Min	Max	Mean	Median
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-	0.0	0.2	0.1	0.1	0.7	2986.0	257.8	4.6
40		611-14-3	Toluene, 2-ethyl-	0.0	0.4	0.1	0.1	0.0	3641.3	366.3	5.7
41		620-14-4	Toluene, 3-ethyl-	0.0	1.1	0.2	0.1	0.2	11965.1	1417.3	12.1
42		622-96-8	Toluene, 4-ethyl-	0.0	0.6	0.2	0.1	0.1	7176.7	668.1	71.1
43		31017-40-0	Cyclohexene, 4-phenyl	0.0	8.9	1.8	0.3	2.0	40.5	21.8	22.4
44		71-43-2	Benzene	0.0	2.4	0.5	0.2	0.4	1199.3	144.3	42.2
45		526-73-8	Benzene, 1,2,3-trimethyl-	0.1	0.3	0.2	0.2	1.2	10137.5	1053.9	124.8
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.0	1.4	0.4	0.3	0.3	43260.5	3062.3	30.7
47		95-47-6	Benzene, 1,2-dimethyl-	0.0	51.6	3.2	0.1	0.1	997693.8	40350.5	5.0
48		108-67-8	Benzene, 1,3,5-trimethyl-	0.0	0.4	0.1	0.1	0.0	19760.7	1470.9	47.9
49		108-38-3	Benzene, 1,3-dimethyl-	0.0	285.2	14.3	0.3	0.2	1518913.6	57394.3	5.8
50		98-82-8	Benzene, isopropyl	0.2	0.5	0.3	0.3	1.7	23940.6	1838.3	12.1
51		103-65-1	Benzene, propyl-	0.0	0.8	0.2	0.1	0.5	5205.3	703.9	39.5
52		100-41-4	Ethylbenzene	0.0	50.6	3.2	0.1	0.1	799962.3	29807.2	2.3
53		91-20-3	Naphthalene	0.0	3.0	0.7	0.2	0.1	5641.1	429.4	3.9
54		99-87-6	p-Cymene	0.1	10.6	1.0	0.2	2.4	1733.4	187.1	14.2
55		100-42-5	Styrene	0.0	27.9	2.7	0.2	0.4	1091.5	106.6	2.5
56		108-88-3	Toluene	0.1	190.9	19.2	1.2	0.2	11789552.5	536414.6	6.0
57		98-83-9	2-Phenylpropene	0.2	0.7	0.4	0.3	2.2	15.6	8.8	9.1
58		95-13-6	Indene	0.2	2.7	1.4	1.4	0.2	1458.9	242.1	35.4
59	Esters	108-21-4	Acetic acid, 1-methylethyl ester					497.1	497.1	497.1	497.1
60		111-15-9	Acetic acid, 2-ethoxyethyl ester								
61		123-86-4	Acetic acid, butyl ester	0.4	3.3	1.2	0.6	2.7	1060.2	219.8	10.1
62		141-78-6	Acetic acid, ethyl ester	0.3	2.1	1.2	1.1	0.9	3390.1	768.3	252.0
63		80-62-6	Methyl methacrylate					1.0	1.0	1.0	1.0
64		103-09-3	2-Ethylhexyl acetate					0.7	406.9	139.8	75.9
65		96-48-0	Butyrolactone	3.9	6.7	5.3	5.3				
66		25265-77-4	Texanol	0.8	14.6	3.9	3.0	6.2	127260.8	24076.5	1882.1
67		6846-50-0	TXIB	0.0	1611.9	104.5	1.7	0.2	106.2	21.5	3.9
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol	53.2	53.2	53.2	53.2	61.4	298909.2	39287.9	414.4
69		110-49-6	2-Methoxyethylacetate								
70		111-90-0	Diethylene glycol monoethyl eth	3.5	3.5	3.5	3.5	847.0	847.0	847.0	847.0
71		107-98-2	Propanol, 1-methoxy-2-	1.5	16.3	6.5	1.8	14.8	14.8	14.8	14.8
72		111-76-2	Ethanol, 2-butoxy-	0.2	36.6	7.5	1.8	2.3	2172.0	559.6	32.1
73		112-34-5	Ethanol, 2-butoxyethoxy-	2.7	11.0	7.4	8.5	3.1	2830.4	695.8	13.6
74		110-80-5	Ethanol, 2-ethoxy-								
75		109-86-4	Ethanol, 2-methoxy-								
76		75-65-0	Propanol, 2-methyl-2-	3.2	3.2	3.2	3.2	2.9	21163.0	4209.1	815.1
77		5131-66-8	Proylene glycol monobutyl ether	3.7	3.7	3.7	3.7	12.5	12.5	12.5	12.5
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane								
79		95-50-1	1,2-Dichlorobenzene								
80		107-06-2	1,2-Dichloroethane	19.9	19.9	19.9	19.9				
81		78-87-5	1,2-Dichloropropane					2.8	32.0	19.0	22.1
82		106-46-7	1,4-Dichlorobenzene	0.0	0.1	0.1	0.1	2.3	2.3	2.3	2.3
83		75-27-4	Bromodichloromethane	2.7	2.7	2.7	2.7				

Table 9 (continued)

#	Class	CAS#	Compound	Emission factor for solid materials [1] (μg m^{-2} h^{-1})				Emission factor for liquid materials [2] (μg m^{-2} h^{-1})			
				Min	Max	Mean	Median	Min	Max	Mean	Median
84	Halo Carbons	56-23-5	Carbon tetrachloride								
85		67-66-3	Chloroform	0.1	1.1	0.3	0.2				
86		124-48-1	Dibromochloromethane								
87		75-09-2	Dichloromethane								
88		127-18-4	Tetrachloroethylene	18.7	18.7	18.7	18.7				
89		79-01-6	Trichloroethylene	0.1	13.1	3.9	1.7	0.0	991.4	96.9	8.5
90		79-34-5	1,1,2,2-Tetrachloroethane								
91	Cyclo Alkanes	108-87-2	Methylcyclohexane	0.8	12.3	5.5	3.4	0.9	21567.6	2471.5	4.9
92		110-82-7	Cyclohexane	0.2	0.7	0.5	0.6	3.7	3289.1	1098.9	3.8
93		1678-93-9	Cyclohexane, butyl-	0.4	0.6	0.5	0.5	8.2	19594.7	3673.8	1824.3
94		1678-91-7	Cyclohexane, ethyl-	0.4	1.4	0.9	0.9	0.9	8112.6	1040.7	48.8
95		1678-92-8	Cyclohexane, propyl-	0.9	0.9	0.9	0.9	1.9	20572.0	3764.9	1206.8
96		91-17-8	Decahydronaphthalene					4.0	7753.0	1729.3	844.9
97	Terpenes	80-56-8	alpha-Pinene	0.2	171.6	12.1	1.4	14.6	112.2	52.2	29.9
98		99-86-5	alpha-Terpinene	4.5	4.5	4.5	4.5	5.6	18.0	12.3	13.4
99		127-91-3	beta-Pinene	0.1	108.9	7.8	0.3	2.7	112.3	40.4	6.1
100		99-85-4	gamma-Terpinene	1.5	1.5	1.5	1.5	1.7	4.5	3.0	2.9
101		13466-78-9	3-Carene	0.1	71.7	13.8	1.3				
102		79-92-5	Camphene	0.1	14.9	4.2	1.0	2.2	8.3	4.6	3.3
103		5989-27-5	Limonene	0.1	37.6	3.3	0.7	1.4	24.5	13.9	15.5
104	Acids	64-19-7	Acetic acid	4.3	1015.6	329.6	125.0	18.4	4638.5	914.0	51.2
105		79-31-2	Isobutyric acid	6.6	34.8	20.7	20.7				
106		107-92-6	Butyric acid	0.9	11.1	4.4	1.2				
107		111-14-8	Heptanoic acid	3.2	3.2	3.2	3.2				
108		149-57-5	2-Ethylhexanoic acid	1.1	1.1	1.1	1.1	9.8	1204.5	420.9	48.4
109		142-62-1	Hexanoic acid	4.3	922.1	159.4	7.1				
110		109-52-4	Pentanoic Acid	1.3	178.3	37.0	1.8				
111	Other	3777-69-3	Furan, 2-pentyl	0.5	80.4	14.7	5.9	11.7	19.5	15.4	15.1
112		872-50-4	2-Pyrrolidinone, 1-methyl-					3.0	57457.6	19163.4	29.5
113		123-91-1	1,4-Dioxane	0.2	0.2	0.2	0.2	1.0	49.5	14.4	4.5
114		78-40-0	Triethyl phosphate								
115		142-96-1	n-Butyl ether	0.3	0.5	0.4	0.4	2.0	2556.9	305.4	49.2
116		96-29-7	2-Butanone oxime								
117		121-44-8	Triethylamine					9.1	4569.6	2289.4	2289.4
118		75-21-8	Ethylene oxide					47.9	55.2	51.6	51.6
119		75-56-9	Propylene oxide					2.5	10.7	6.9	7.4
120		106-99-0	1,3-Butadiene								
121	DNPH	75-07-0	Acetaldehyde	2.0	566.0	63.6	22.0	0.9	547.5	73.7	15.8
122		50-00-0	Formaldehyde	0.06	114.9	26.4	10.6	0.03	7781.2	462.7	36.5
123		123-38-6	Propanal	1.0	42.6	12.9	7.3	4.6	254.3	48.9	12.3
124	PFPH	107-02-8	Acrolein	0.0	16.8	2.6	0.8	0.1	841.1	76.3	13.0

[1] Solid (dry) building materials (25 specimens); [2] Liquid (wet) building materials (27 specimens)

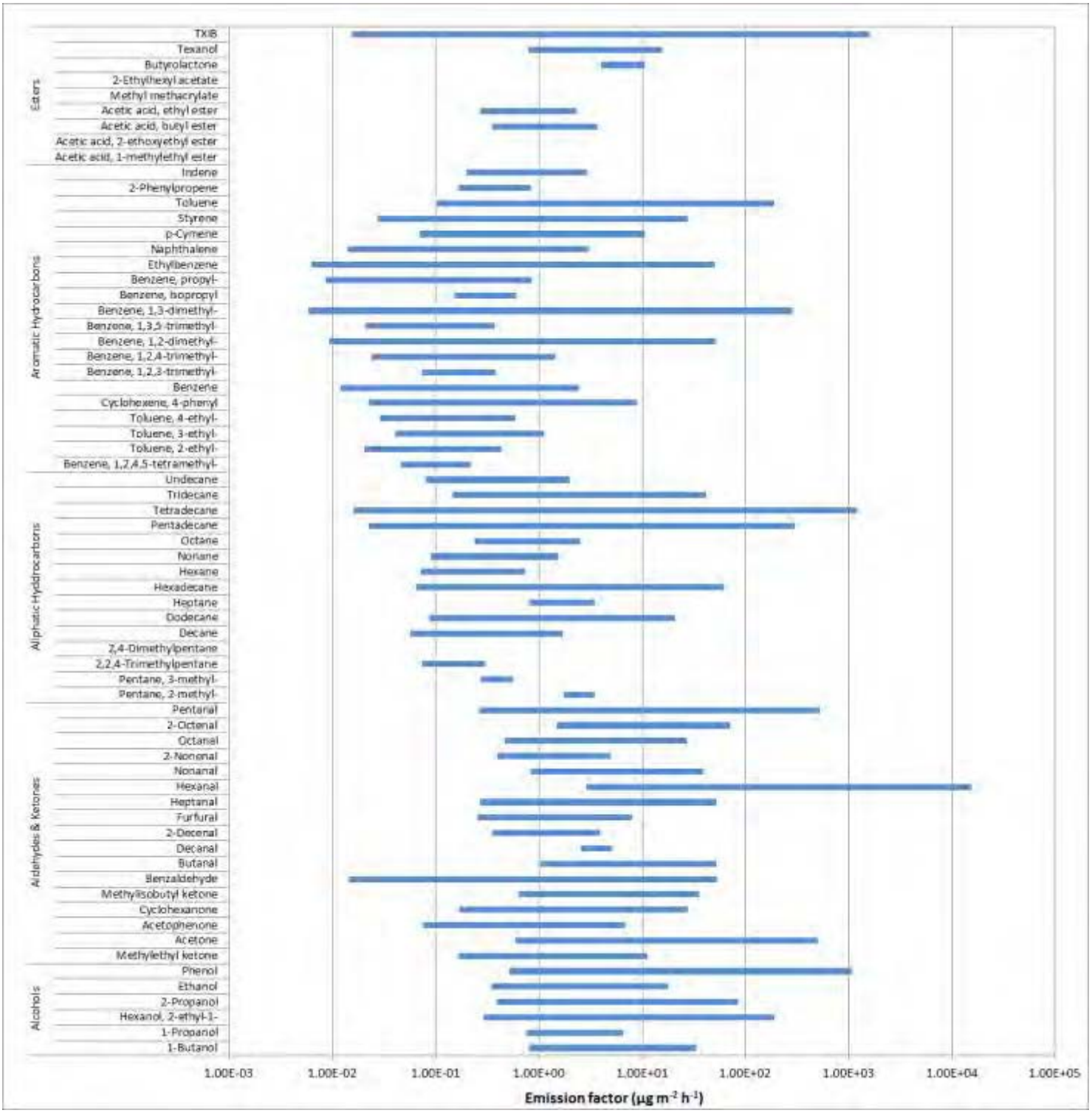


Figure 15: Range of emission factors for "dry" building materials (alcohols, aldehydes, aliphatics, aromatics & esters)

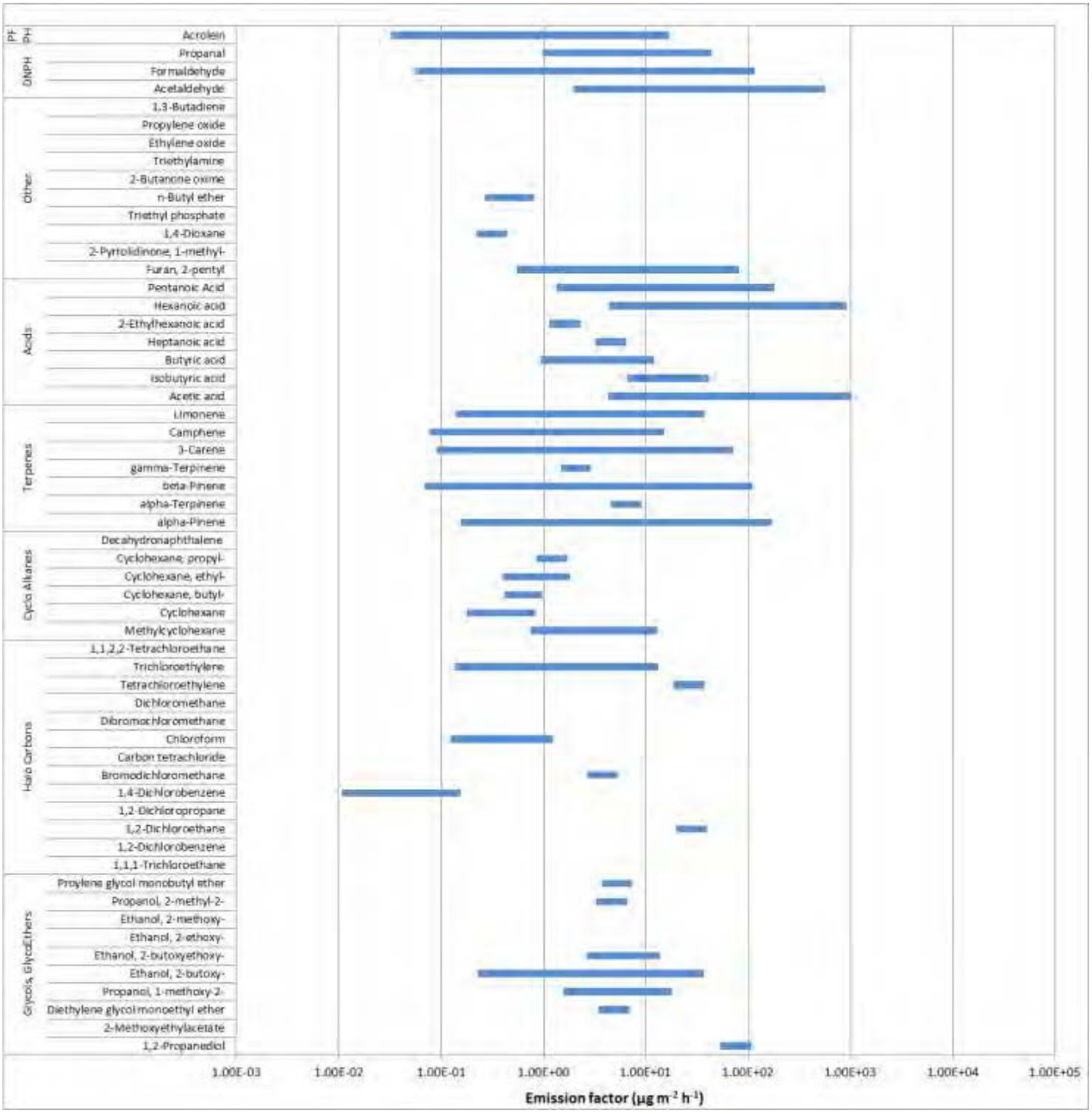


Figure 16: Range of emission factors for "dry" building materials (glycols, halo carbons, cyclo alkanes, terpenes, acids and others)

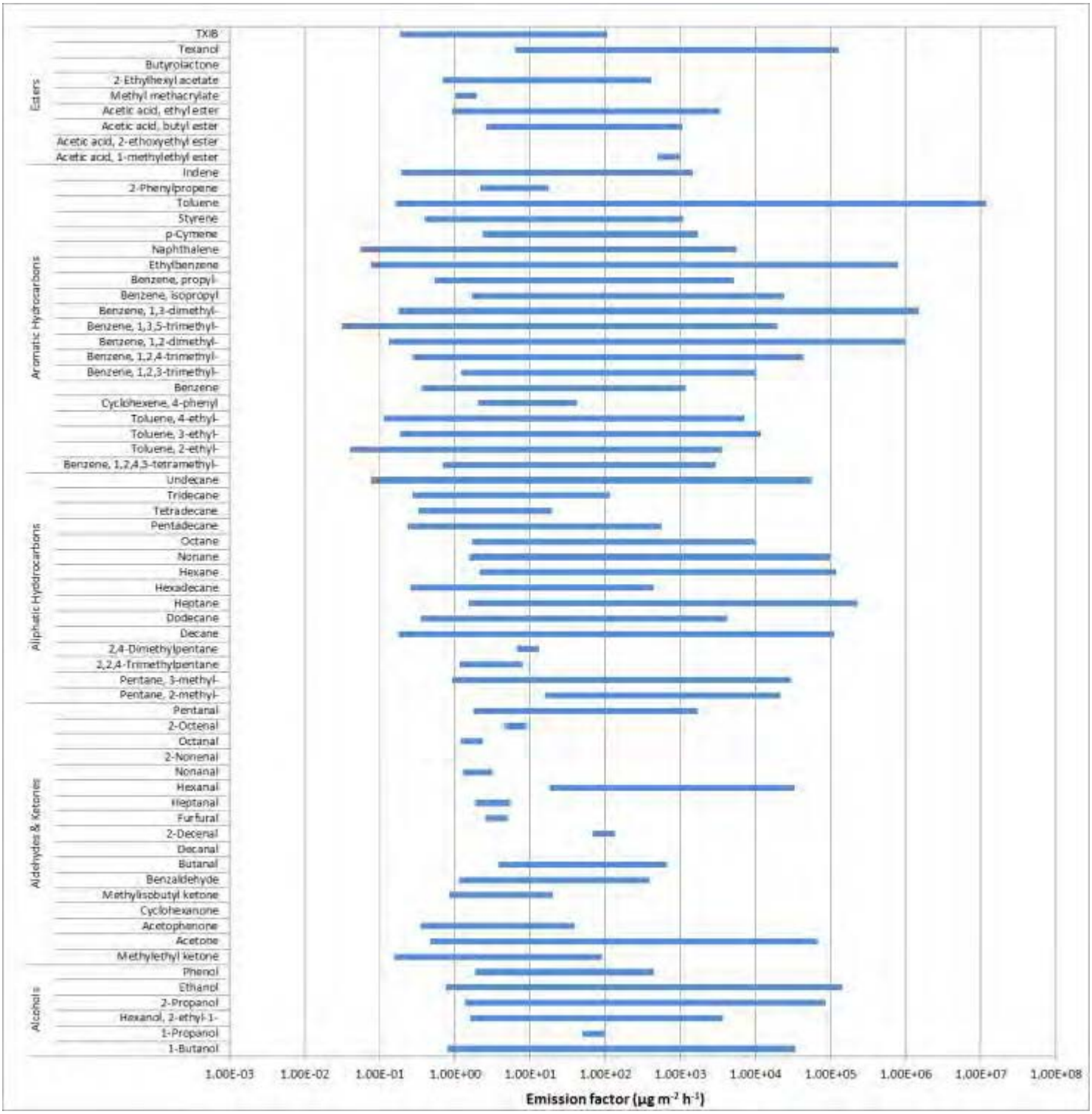


Figure 17: Range of emission factors for "wet" building materials (alcohols, aldehydes, aliphatics, aromatics & esters)

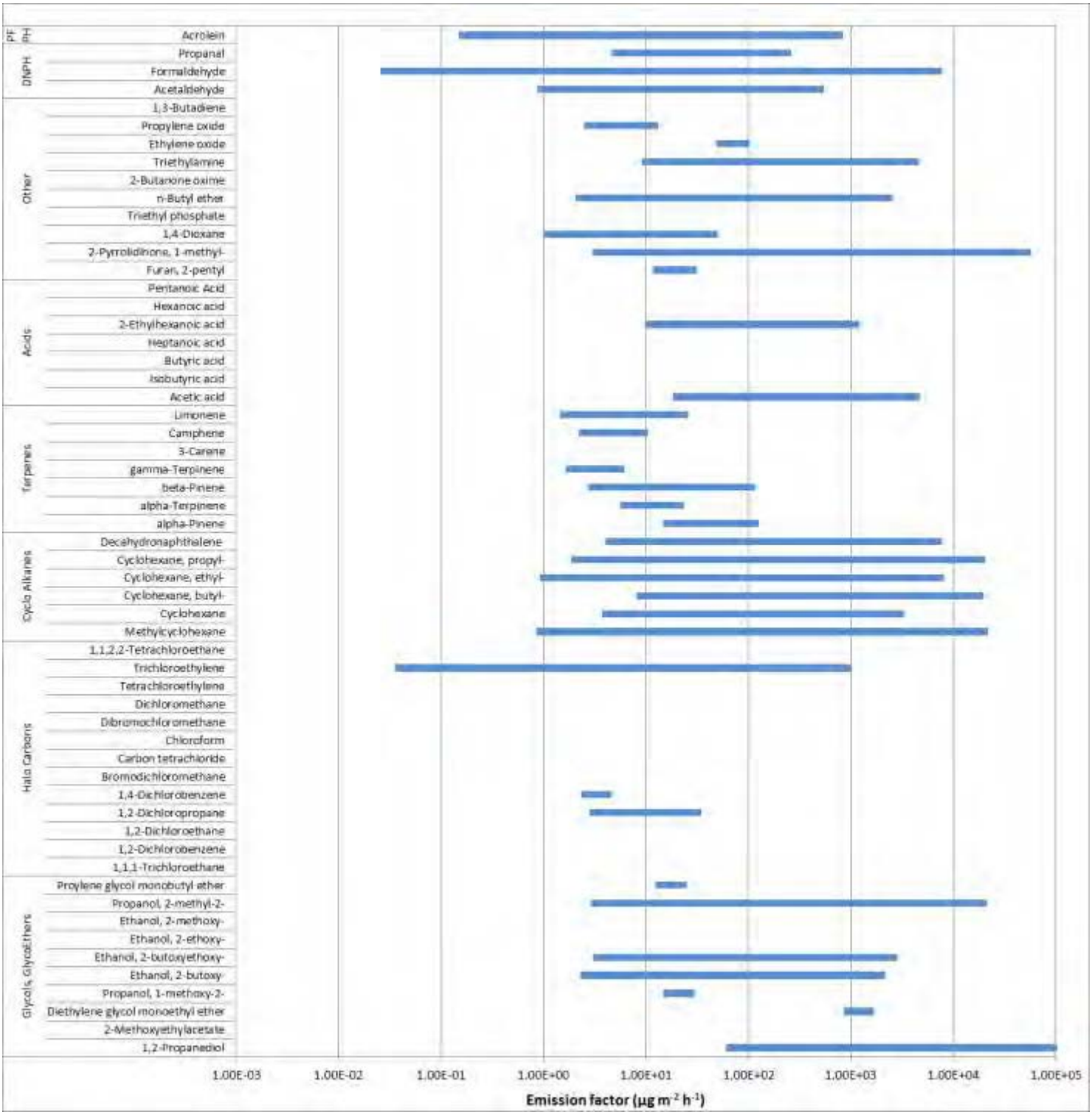


Figure 18: Range of emission factors for "wet" building materials (glycols, halo carbons, cyclo alkanes, terpenes, acids and others)

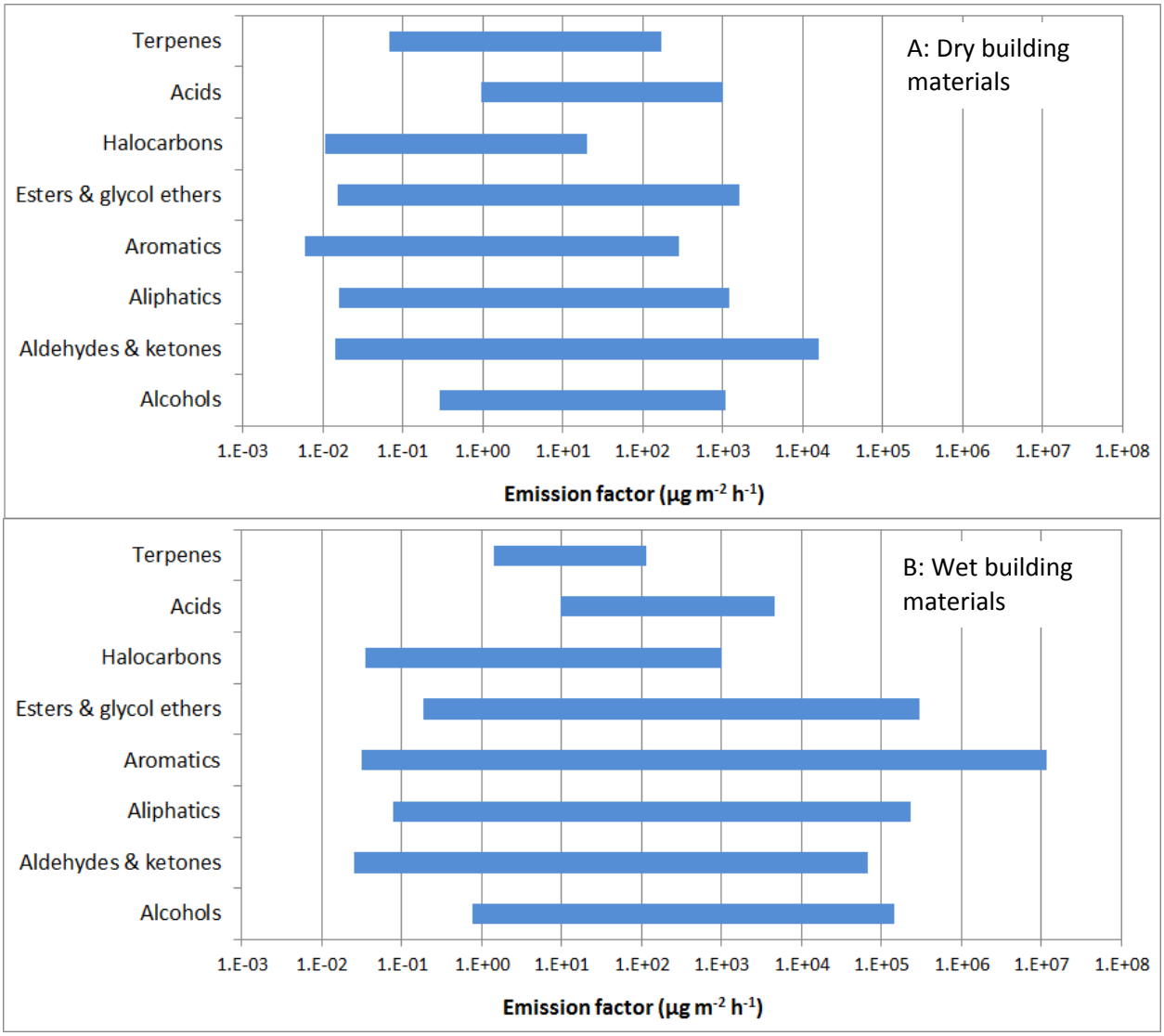


Figure 19: Range of emission factors grouped for different chemical classes

3.2 Comparison to past emission data

In the previous study (Won and Yang, 2012a), the detection frequency of different classes of compounds were compared between the emission data from 58 building materials tested in 50-L chambers between 1998 and 2004 (NRC-IRC, 2009) and those from 67 building materials tested in micro-scale chambers in 2011 and 2012. The general observation was that the detection frequency increased for alcohols, esters and glycol ethers in a decade. The opposite was observed for halogenated and aliphatic compounds.

The comparison was further expanded to the current data. Table 10 and Table 11 summarize the detection frequencies of 8 chemical classes for dry and wet building materials, respectively. The detection frequencies observed in the test in 2010/11 and 2012/13 are similar for most of compound classes. Exceptions are that aromatic compounds were observed less frequently, while alcohols/aldehydes/ketones were observed more frequently in the

current study. Compared to the data sets obtained more than a decade ago, decreasing trends were observed for aliphatic hydrocarbons, aromatic hydrocarbons, halogenated compounds and terpenes. On the other hand, the detection frequency of oxygenated compounds such as alcohols, aldehydes, ketones, esters and glycols generally increased.

Table 10: Detection frequency (%) for chemical classes emitted from dry building materials

Project	Dry building materials		
	IA-QUEST (1998 to 2004) [1]	Naphthalene Project (2010/11) [2]	Current study (2012/13) [3]
Materials tested	41 materials - vinyl flooring, carpet, under-pad, solid wood, acoustical tile, gypsum board, OSB, plywood, laminated flooring, counter top	30 materials: vinyl flooring, carpet/mat, under-pad, furniture (wood, vinyl), foam materials	25 materials – vinyl flooring, carpet, laminated flooring, hardwood flooring, OSB, plywood, particleboard, MDF, acoustical tile and insulation
Alcohols	13	35	51
Aldehydes & ketones	51	26	45
Aliphatic HCs	61	35	35
Aromatic HCs	68	82	**49**
Esters	6	17	17
Glycol ethers	0	2	6
Halogenated cmpnds	30	23	15
Terpenes	51	49	37

[1] Indoor Air Quality Simulation Tool (IA-QUEST) from the material emissions project 1 and 2 (1998 & 2004); [2] Naphthalene project (2010); [3] Current study: small-scale chamber tests with 52 building materials (emission factors at 24 h)

Table 11: Detection frequency (%) for chemical classes emitted from wet building materials

Project	Wet building materials		
	IA-QUEST (1998 to 2004) [1]	Naphthalene Project (2010/11) [2]	Current study w/ small-scale chambers (2012/13) [3]
Materials tested	17 materials - adhesive, caulking, paint, primer, wood stain, urethane, wax	37 materials - adhesive, caulking, paint, primer, wood stain, wax	27 materials – adhesive, caulking, paint, wood stain, finish, foam sealant
Alcohols	6	25	41
Aldehydes & ketones	35	24	29
Aliphatic HCs	52	36	38
Aromatic HCs	66	67	58
Esters	11	20	18
Glycol ethers	1	6	11
Halogenated cmpnds	29	3	6
Terpenes	6	9	11

[1] Indoor Air Quality Simulation Tool (IA-QUEST) from the material emissions project 1 and 2 (1998 & 2004); [2] Naphthalene project (2010); [3] Current study: small-scale chamber tests with 52 building materials (emission factors at 24 h)

3.3 "Priority" chemicals

Sixteen compounds identified as priority chemicals in the process of developing the indoor air quality guidelines for VOCs by Health Canada were analyzed in more detail in this section. Additionally, four compounds (benzene, toluene, formaldehyde and naphthalene) that were previously identified as priorities are included in the analysis.

The list includes:

- One alcohol: 2-propanol
- Six aromatics: benzene, xylenes (1,2- & 1,3(4)-xylene), ethylbenzene, naphthalene, toluene
- Seven chlorinated compounds: 1,2-dichloroethane, 1,4-dichlorobenzene, carbon tetrachloride, chloroform, dichloromethane, tetrachloroethylene and 1,1,2,2-tetrachloroethane
- Three aldehydes: acetaldehyde, formaldehyde, propanal
- Two oxides: ethylene oxide, propylene oxide
- 1,3-butadiene and acrolein

Four compounds were not emitted by any of the tested materials:

- Carbon tetrachloride
- Dichloromethane
- 1,1,2,2-Tetrachloroethane
- 1,3-Butadiene

Two compounds were emitted from only one material:

- Tetrachloroethylene (18.8 $\mu g\ m^{-2}\ h^{-1}$ from a vinyl sheet specimen – VF32
- 1,2-Dichloroethane (19.9 $\mu g\ m^{-2}\ h^{-1}$ from a solid bamboo flooring specimen – BAM1)

More detailed descriptions on the other 14 compounds are provided below.

3.3.1 2-propanol

2-Propanol was detected in 31 % of materials (24 % from dry building materials and 37 % from wet building materials) as shown in Table 8. The emission factors measured in the small-chamber test at 24 hour are presented in Figure 20 and Figure 21. It was emitted from wood-based panels and structural materials among dry materials. While it was emitted from various wet building materials except adhesive specimens, the emission factor was highest with a latex-based foam sealant (CAK35). The emission factor ranged from 0.4 to 84.9 $\mu g\ m^{-2}\ h^{-1}$ for dry materials and from 1.4 to 85,759 $\mu g\ m^{-2}\ h^{-1}$ for wet materials.

3.3.2 Benzene

Benzene was detected in 40 % of materials (36 % from dry building materials and 44 % from wet building materials) (Table 8). The emission factors measured in the small-chamber test at 24 hour are presented in Figure 22 and Figure 23. It was emitted from vinyl flooring, insulation board and various wood-based panels and structural materials among dry materials. The emission factor was low (< 1 $\mu g\ m^{-2}\ h^{-1}$) for most cases. Almost all caulking specimens emitted benzene with an emission factor ranged from 0.4 to 1199 $\mu g\ m^{-2}\ h^{-1}$.

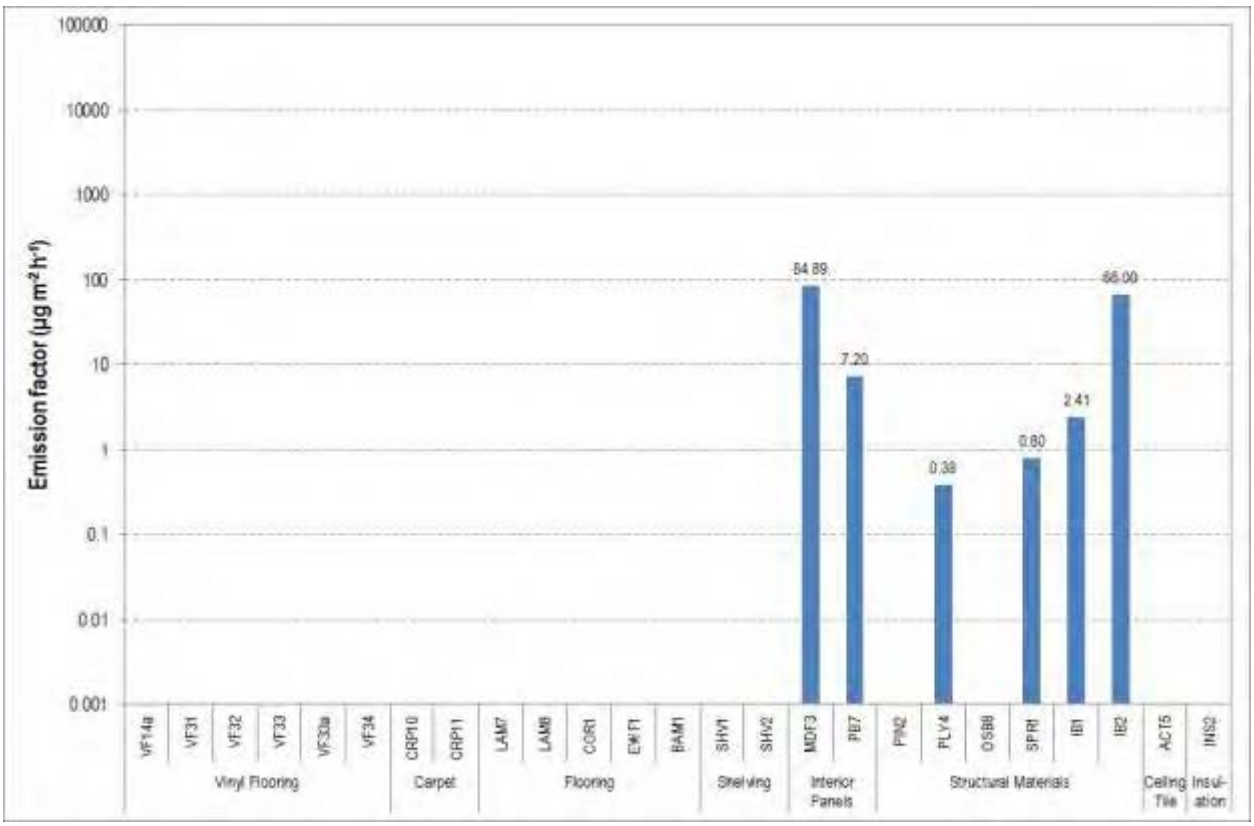


Figure 20: Emission factors for dry building materials (2-propanol)

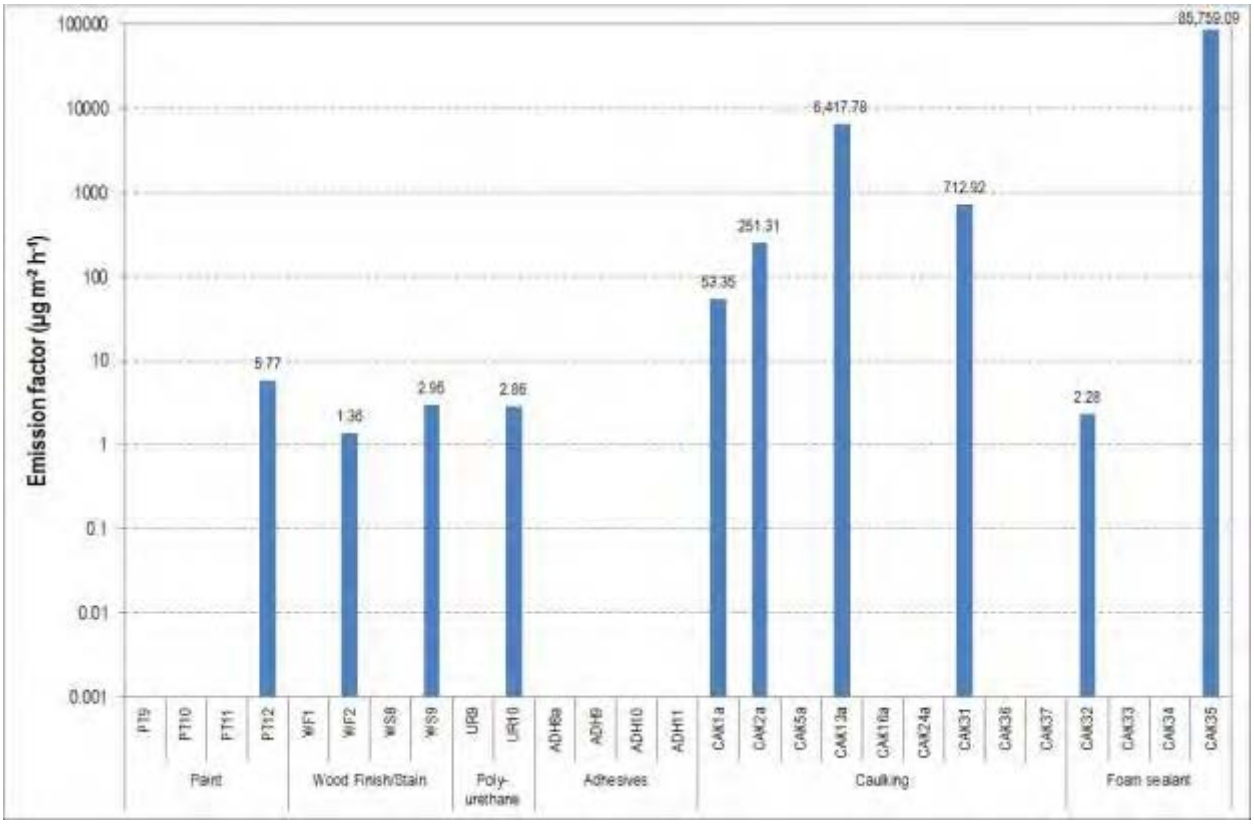


Figure 21: Emission factors for wet building materials (2-propanol)

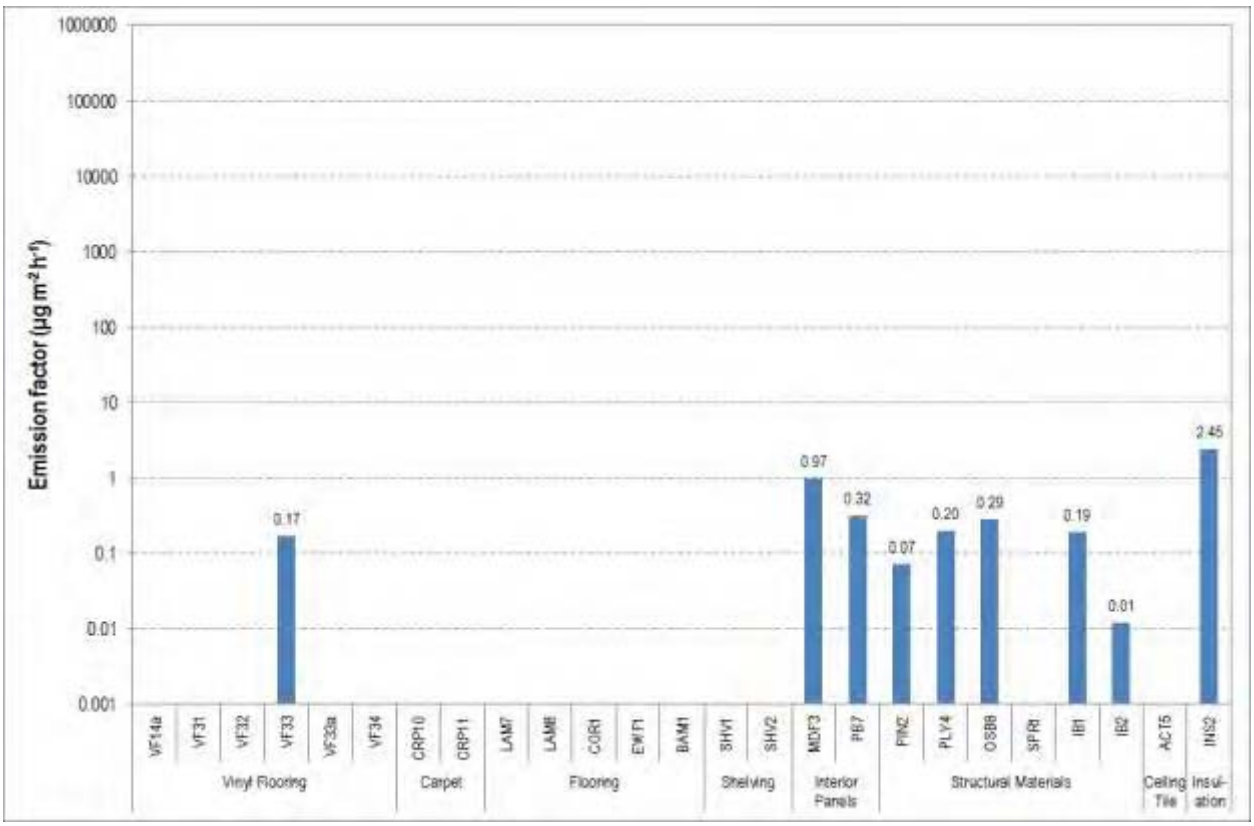


Figure 22: Emission factors for dry building materials (benzene)

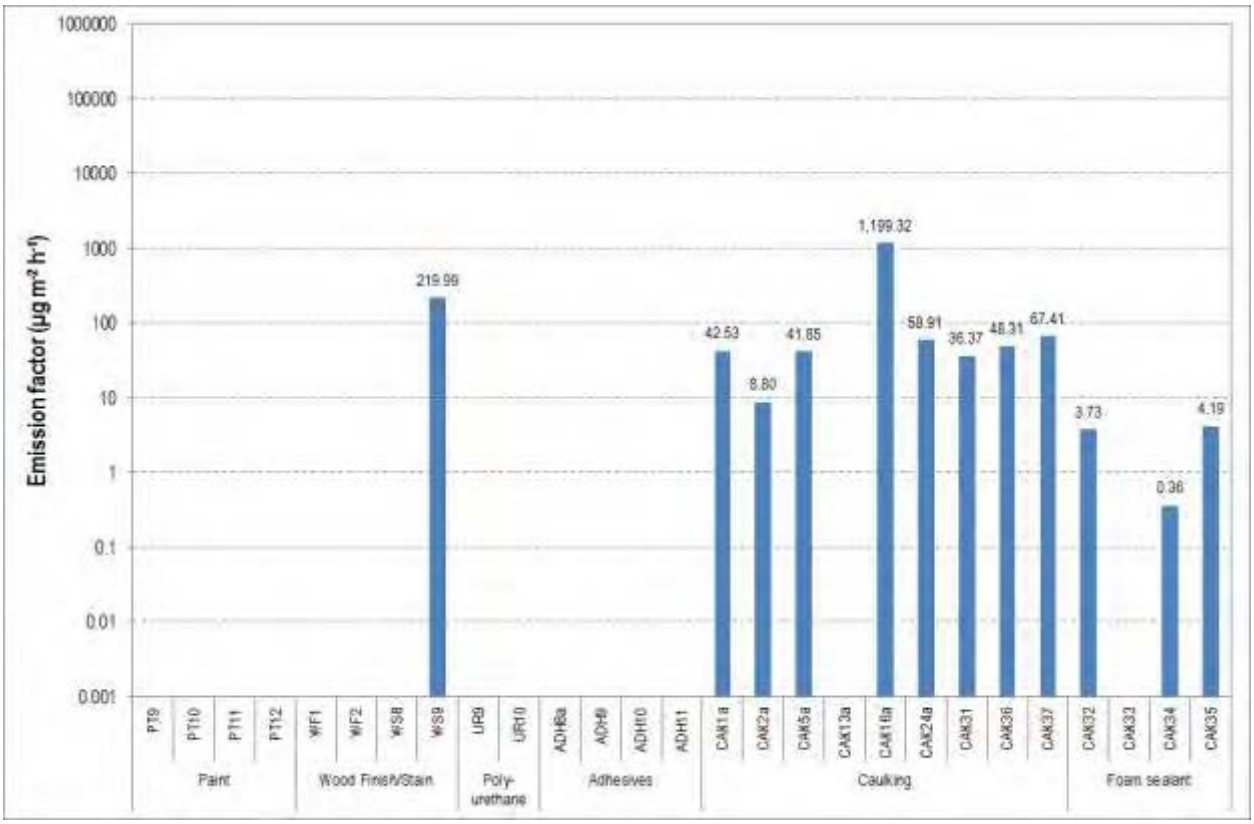


Figure 23: Emission factors for wet building materials (benzene)

3.3.3 1,2-xylene and 1,3(4)-xylene

Xylenes were detected in 72 – 84 % of dry materials and 93 – 100 % of wet materials (Table 8). The emission factors of 1,2-dimethyl benzene (12DMB) and 1,3(4)-dimethyl benzene (13DMB) measured at 24 hour are shown in Figure 24 and Figure 25. The detection frequencies were similar for both compounds. The emission factors were generally low for dry building materials (< 10 $\mu g\ m^{-2}\ h^{-1}$). The highest emission factor was observed with an acoustical ceiling tile (ACT5) among dry building materials. The emission factors for wet materials were relatively high, ranging from 0.1 to 997,693 $\mu g\ m^{-2}\ h^{-1}$ for 12DMB and from 0.2 to 1,518,914 $\mu g\ m^{-2}\ h^{-1}$ for 13DMB. The emission factor was particularly high with a removable caulking specimen (CAK16a).

3.3.4 Ethylbenzene

Ethylbenzene was detected in 84 % of dry materials and 100 % of wet materials (Table 8). The emission factors at 24 hour are presented in Figure 26 and Figure 27. The detection frequency and magnitude of ethylene were similar to those of xylenes. The emission factors were also low for dry building materials (< 10 $\mu g\ m^{-2}\ h^{-1}$). The highest emission factor was also observed with an acoustical ceiling tile (ACT5) among dry building materials. The emission factors for wet materials ranged from 0.1 to 799,962 $\mu g\ m^{-2}\ h^{-1}$. The emission factor was also highest with a removable caulking specimen (CAK16a).

3.3.5 Naphthalene

Naphthalene was detected in 56 % of dry materials and 67 % of wet materials (Table 8). The emission factors at 24 hour are given in Figure 28 and Figure 29. The emission factors were low for dry building materials (< 5 $\mu g\ m^{-2}\ h^{-1}$). It was detected more frequently in vinyl flooring and carpet rather than wood-based flooring specimens, panels and structural materials. It was detected in various wet materials. The highest emission factor was associated with a caulking specimen for subfloor/deck installation (CAK13a). The emission factors for wet materials ranged from 0.1 to 5,641 $\mu g\ m^{-2}\ h^{-1}$.

3.3.6 Toluene

Toluene was detected in 68 % of dry materials and 81 % of wet materials (Table 8). The emission factors at 24 hour are shown in Figure 30 and Figure 31. The emission factors for dry materials ranged from 0.1 to 191$\mu g\ m^{-2}\ h^{-1}$. The highest emission factor was observed with a vinyl tile (VF34). The emission factors for wet materials showed a wide range from 0.2 to 11,789,553 $\mu g\ m^{-2}\ h^{-1}$. The highest emission factor was associated with a caulking specimen for subfloor/deck installation (CAK13a) as with naphthalene. The emission factors associated with caulking specimens tend to be higher than other wet materials.

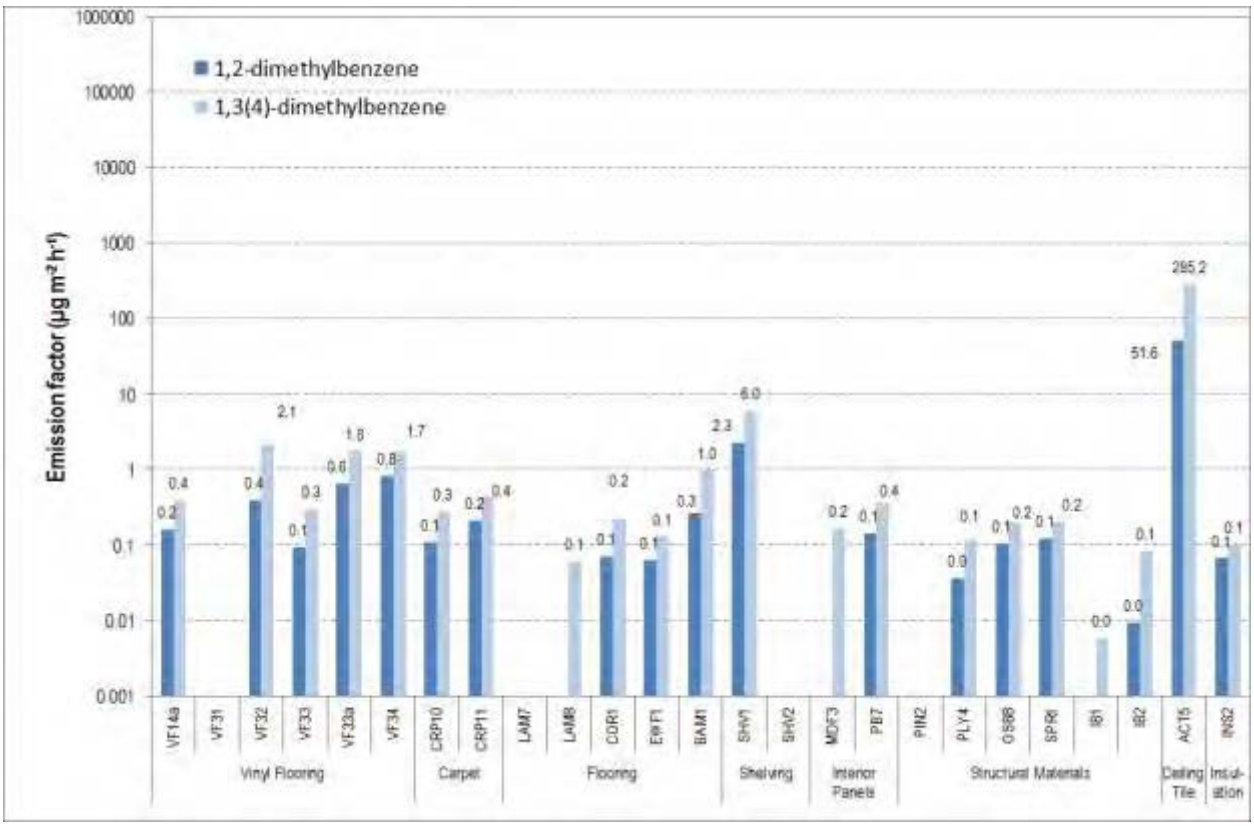


Figure 24: Emission factors for dry building materials (xylenes)

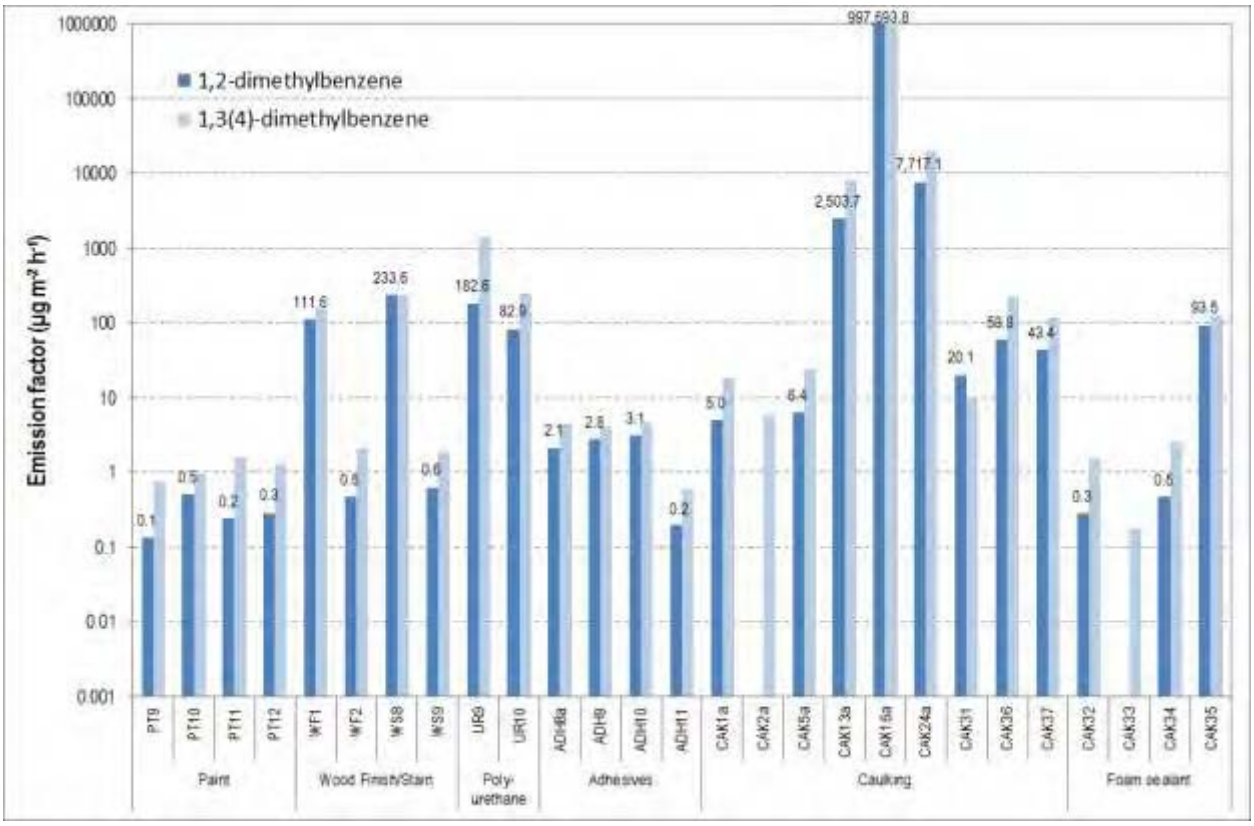


Figure 25: Emission factors for wet building materials (xylenes)

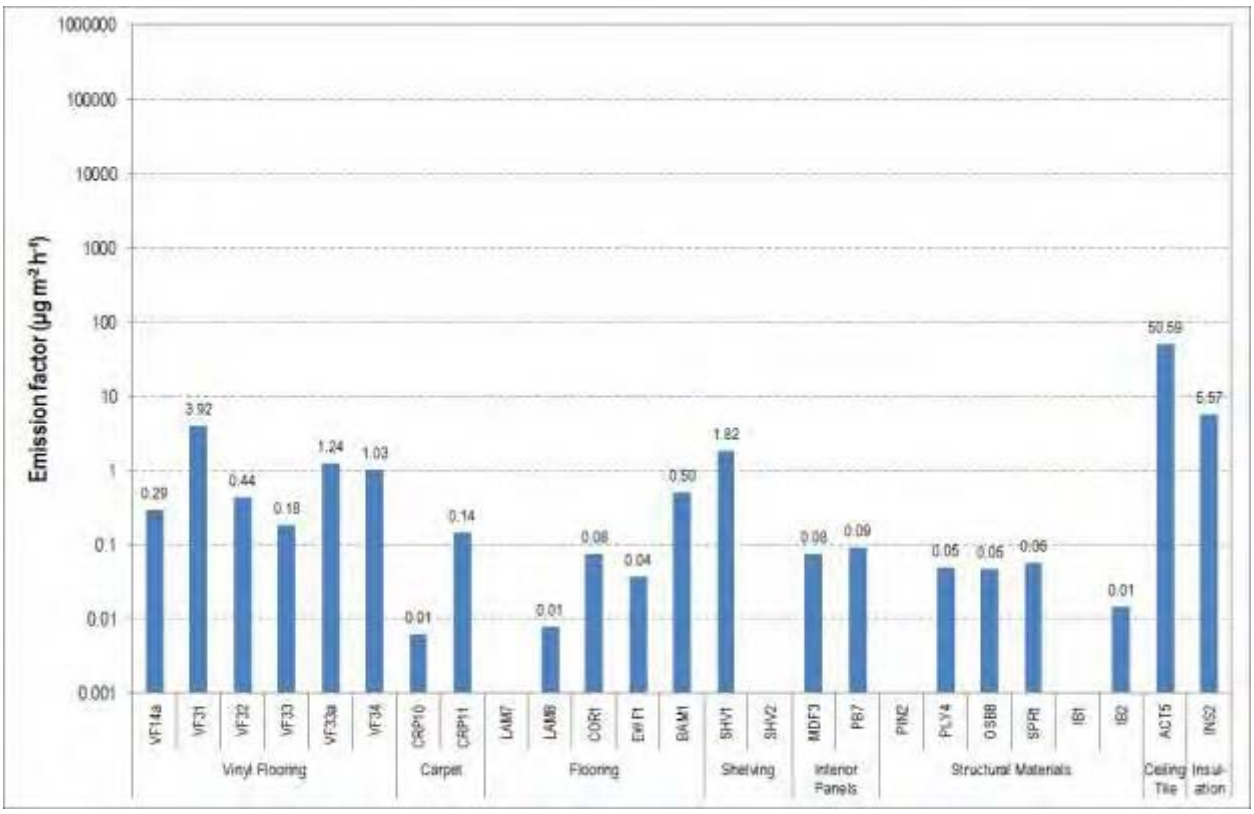


Figure 26: Emission factors for dry building materials (ethylbenzene)

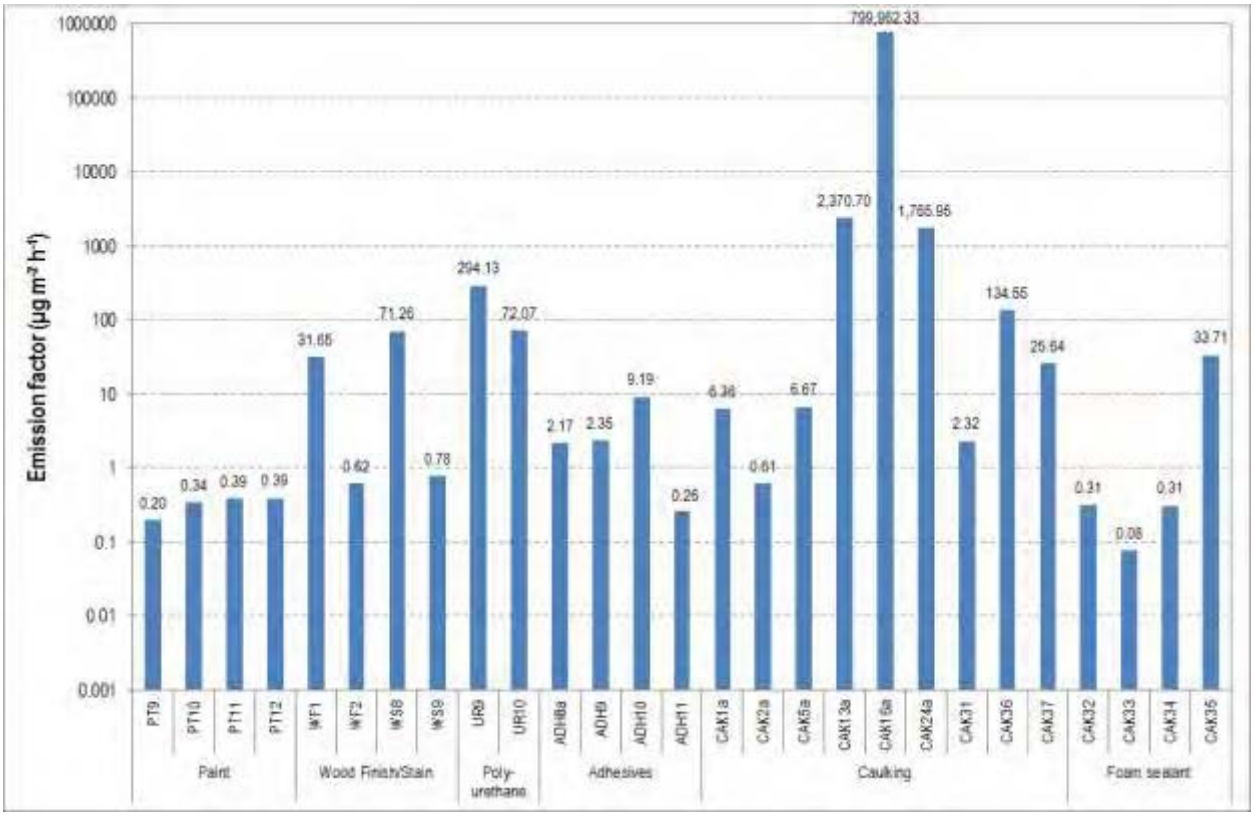


Figure 27: Emission factors for wet building materials (ethylbenzene)

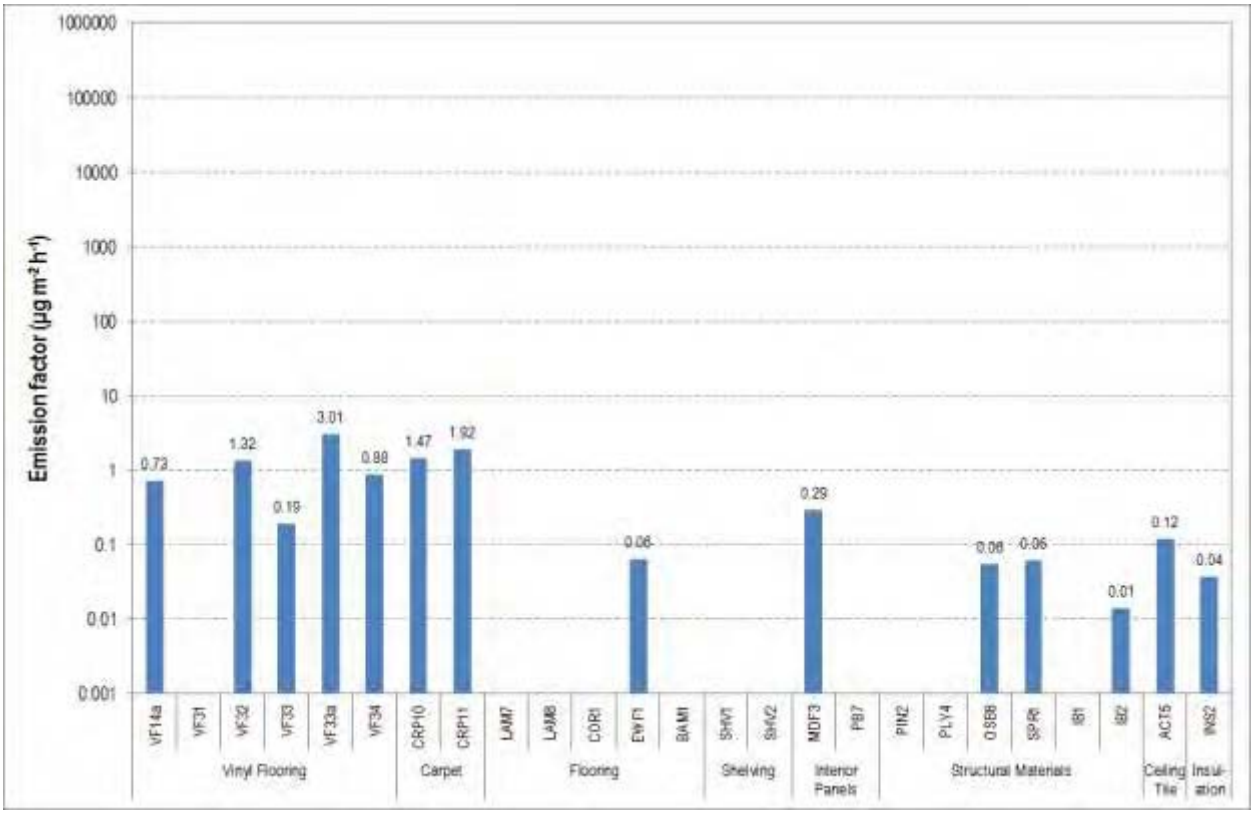


Figure 28: Emission factors for dry building materials (naphthalene)

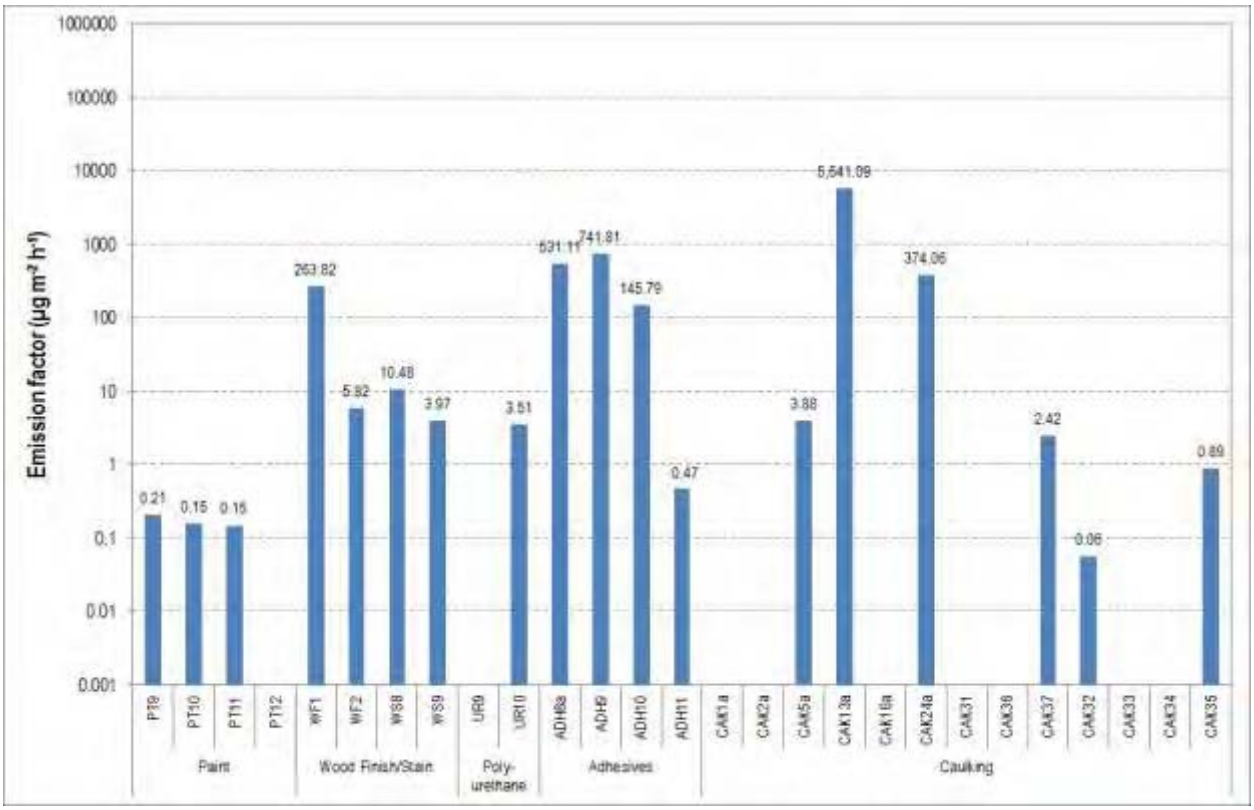


Figure 29: Emission factors for wet building materials (naphthalene)

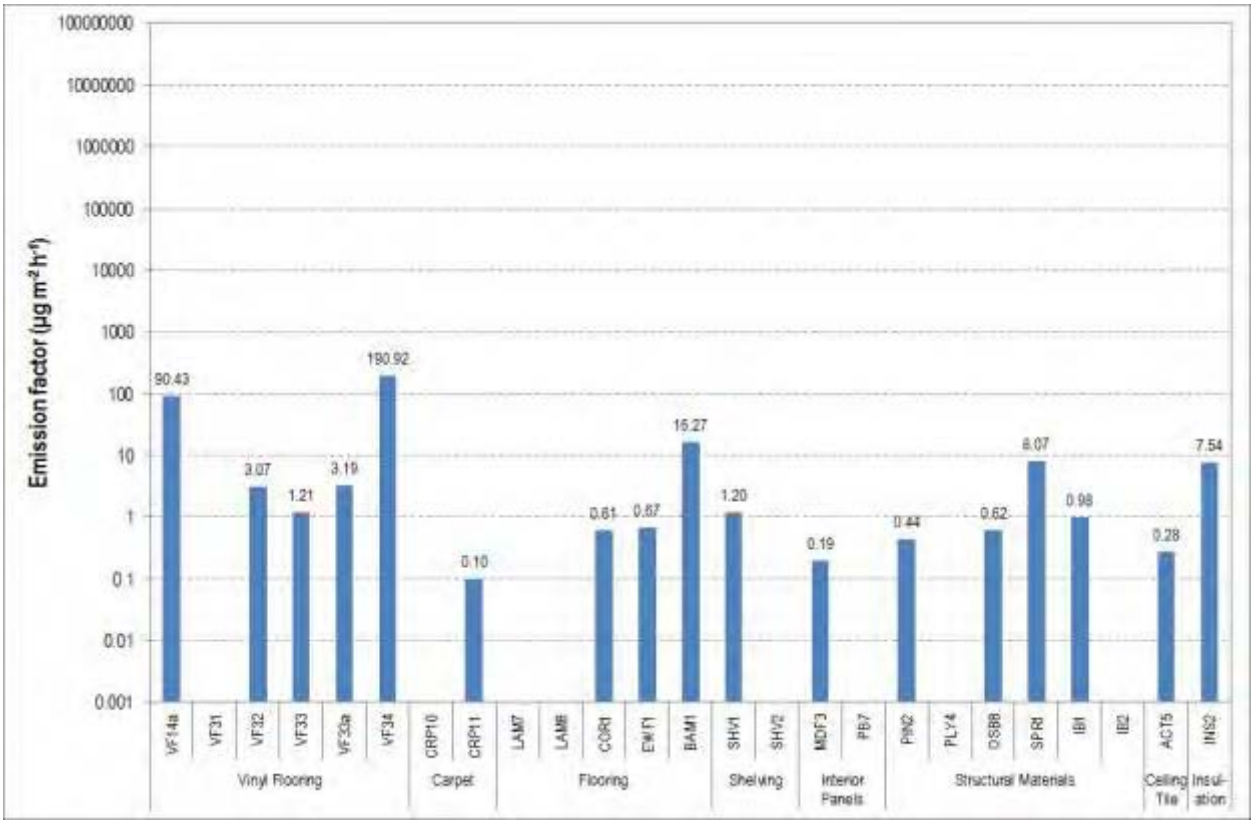


Figure 30: Emission factors for dry building materials (toluene)

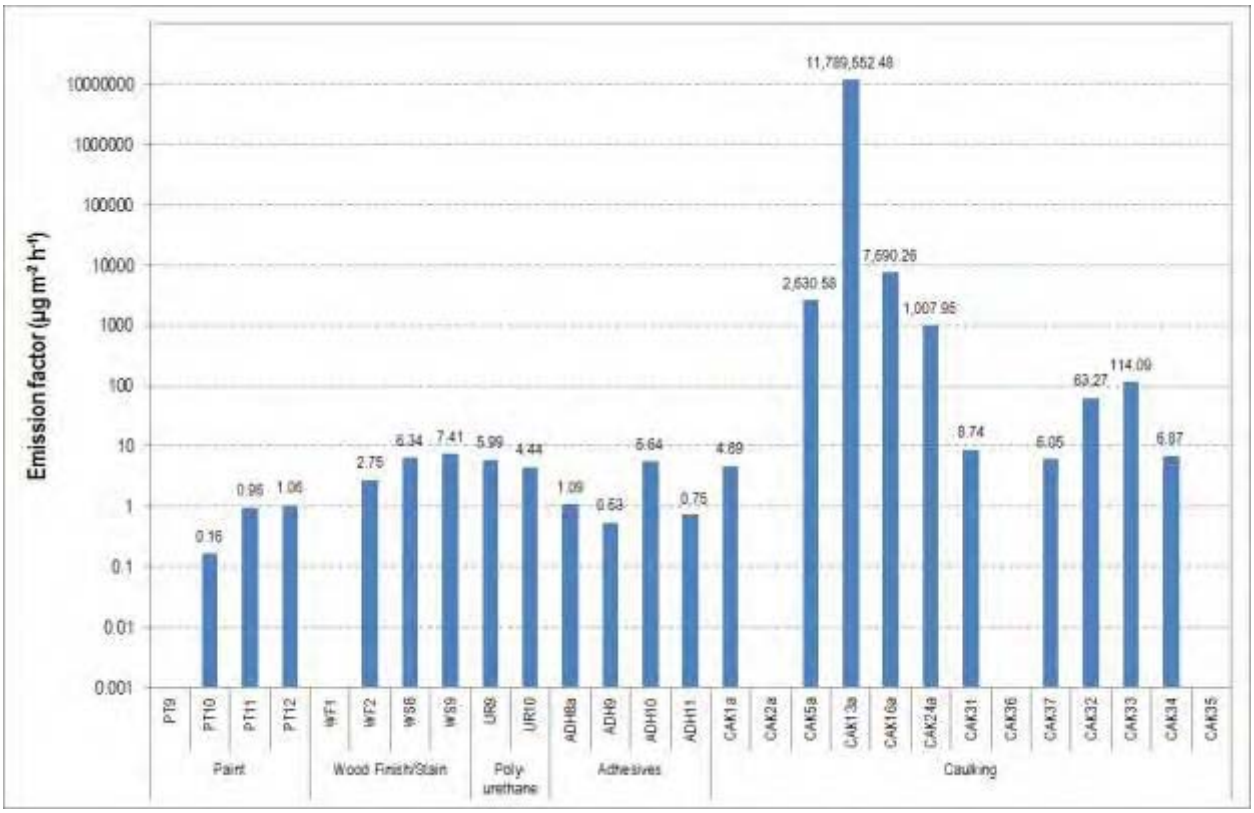


Figure 31: Emission factors for wet building materials (toluene)

3.3.7 1,4-Dichlorobenzene

1,4-Dichlorobenzene was detected in 16 % of dry materials (vinyl flooring, carpet and I-beam) and 4 % of wet materials (silicon caulking). The emission factors were low, ranging from 0.01 to 0.1 μg m^{-2} h^{-1}. The emission factors at 24 hour are shown in Figure 32 and Figure 33.

3.3.8 Chloroform

The detection frequency of chloroform was also low. It was detected only in dry materials (24 % in Table 8). The chloroform emitters included vinyl flooring, carpet, MDF and OSB. The emission factors at 24 hour are presented in Figure 34 and Figure 35. The emission factors were low, ranging from 0.1 to 1.1 μg m^{-2} h^{-1}.

3.3.9 Ethylene oxide and propylene oxide

Ethylene oxide and propylene oxide were detected in none of dry materials tested. Ethylene oxide was detected in three wet materials (paint, wood stain and caulking), while propylene oxide was detected in two caulking specimens. The emission factor of ethylene oxide was greater than that of propylene oxide by ~ 5 times. The emission factor was 51.6 μg m^{-2} for ethylene oxide and 6.9 μg m^{-2} for propylene oxide on averaged.

3.3.10 Acetaldehyde

Acetaldehyde was detected in 64 % of dry materials and 78 % of wet materials (Table 8). The emission factors at 24 hour are shown in Figure 38 and Figure 39. The magnitude of emission factors was similar for both dry and wet materials. The emission factor ranged from 2.0 to 123 μg m^{-2} h^{-1} for dry materials and from 0.9 to 547.5 μg m^{-2} h^{-1} for wet materials.

3.3.11 Formaldehyde

Formaldehyde was detected in 72 % of dry materials and 85 % of wet materials (Table 8). The emission factors at 24 hour are provided in Figure 40 and Figure 41. The emission factors for dry materials were lower than those for wet materials. They ranged from 0.1 to 114.9 μg m^{-2} h^{-1} for dry materials and from 0.03 to 7,781 μg m^{-2} h^{-1} for wet materials. It was detected more frequently with wood-based materials.

3.3.12 Propanal

Propanal was detected in 48 % of dry materials and 30 % of wet materials (Table 8). The emission factors at 24 hour are shown in Figure 42 and Figure 43. The emission factors for dry materials were lower than those for wet materials. They ranged from 1.0 to 32.05 μg m^{-2} h^{-1} for dry materials and from 14.6 to 254.3 μg m^{-2} h^{-1}. Propanal was mostly observed in wood-based materials, including flooring, panels and structural materials. The major wet sources included wood finish/stain and foam sealants. One construction caulking was the highest emitter.

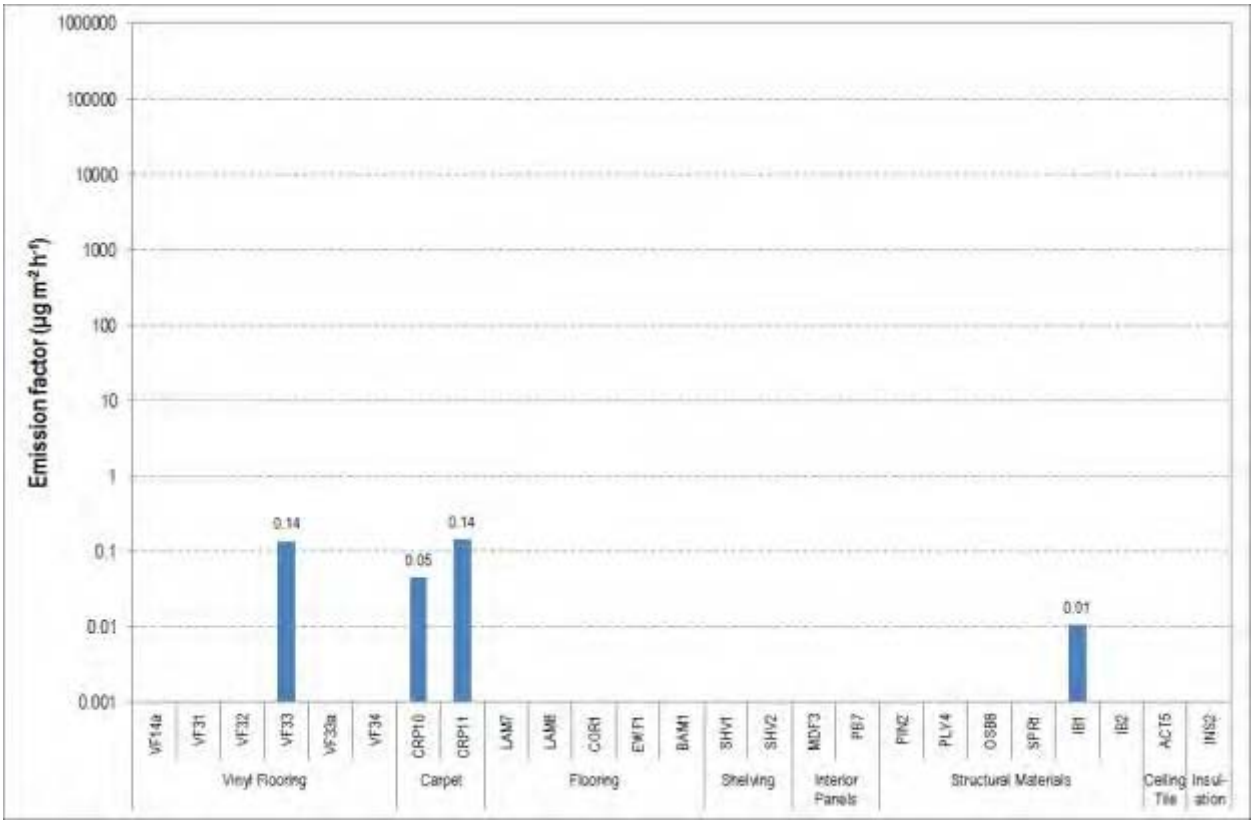


Figure 32: Emission factors for dry building materials (1,4-dichlorobenzene)

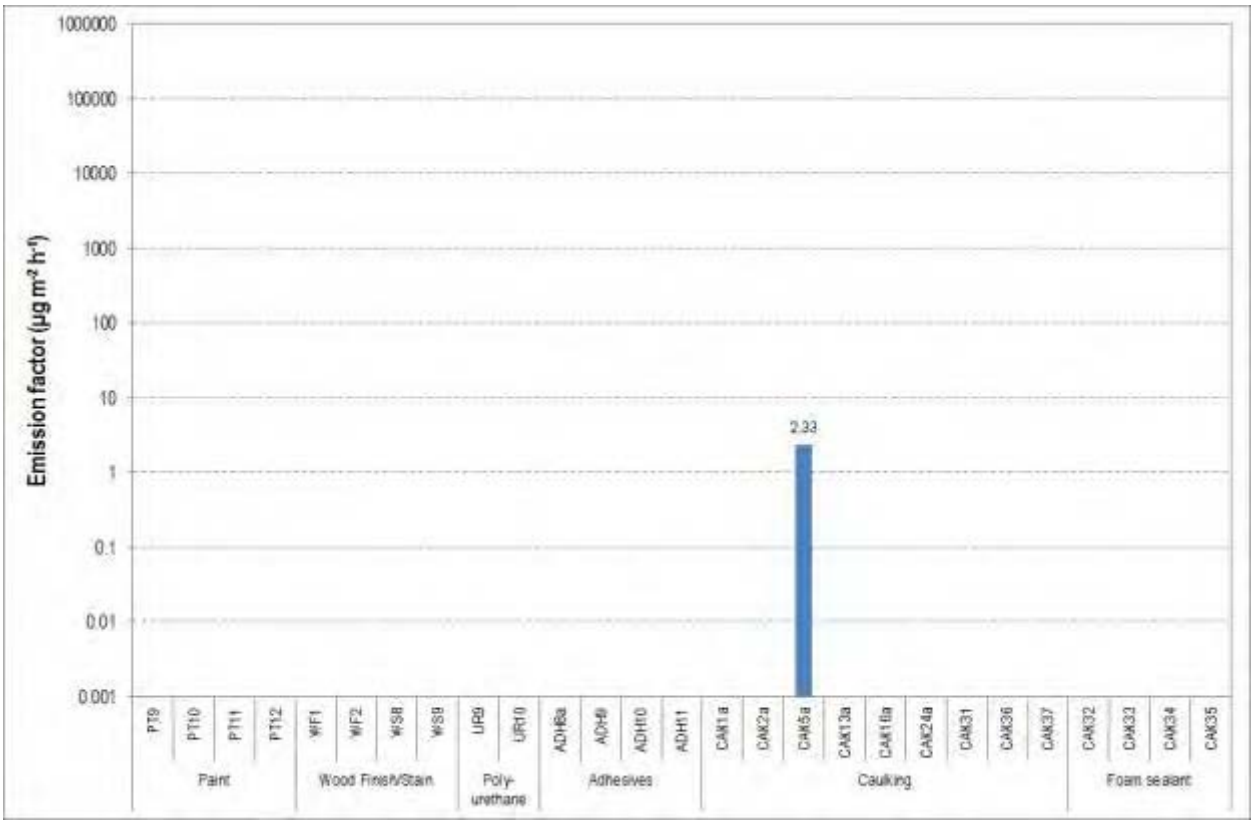


Figure 33: Emission factors for wet building materials (1,4-dichlorobenzene)

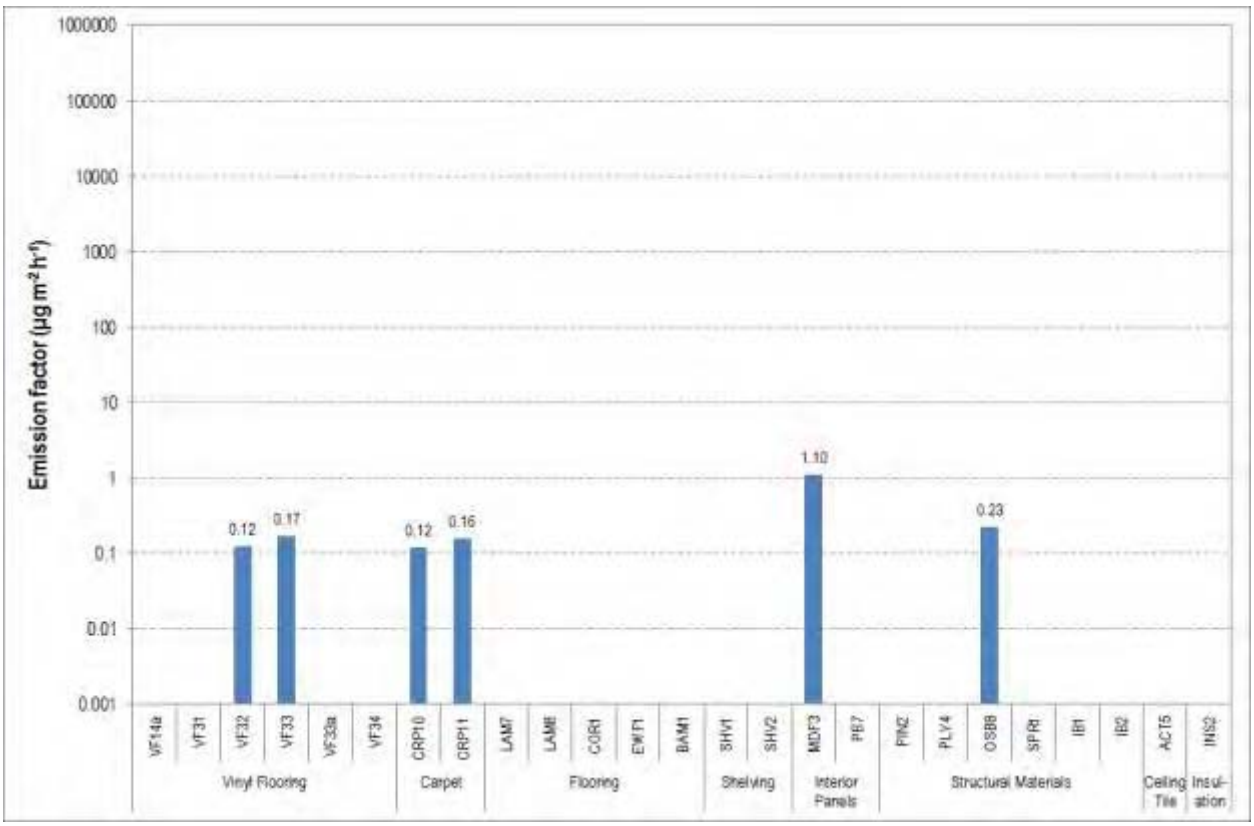


Figure 34: Emission factors for dry building materials (chloroform)

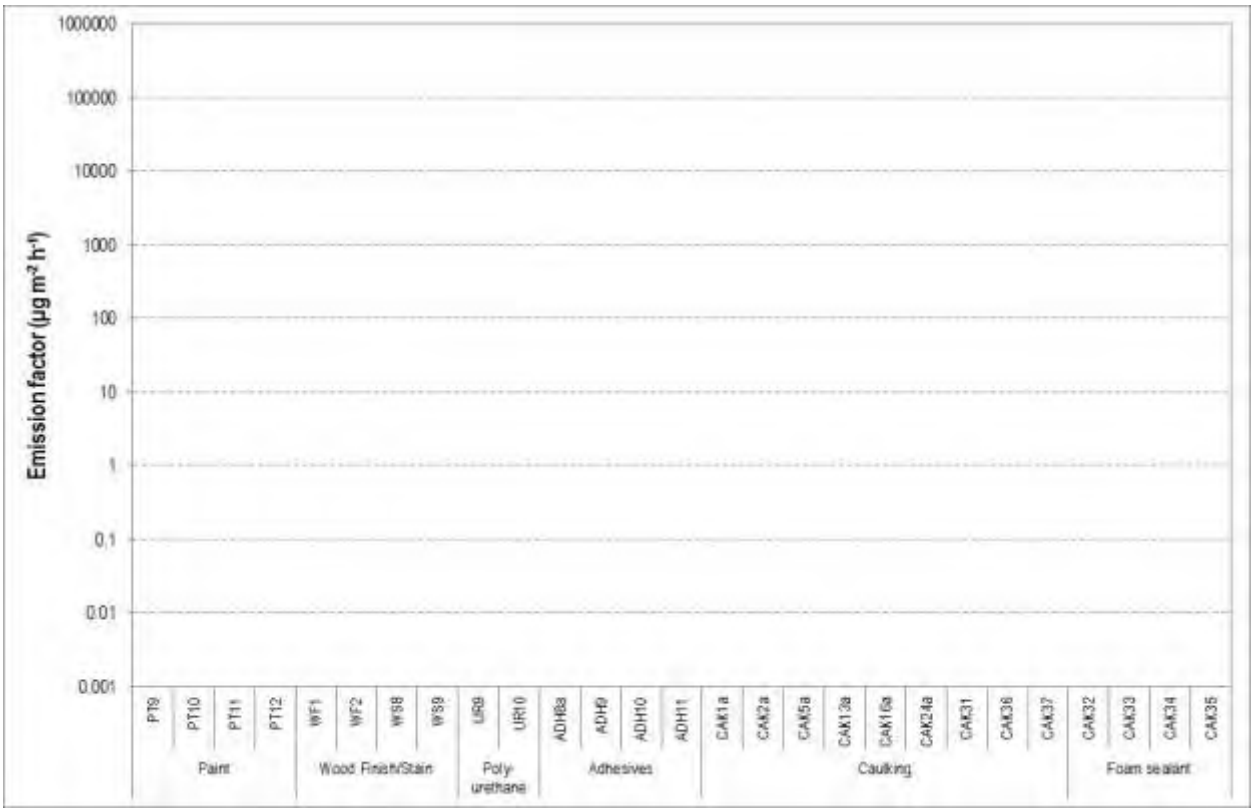


Figure 35: Emission factors for wet building materials (chloroform)

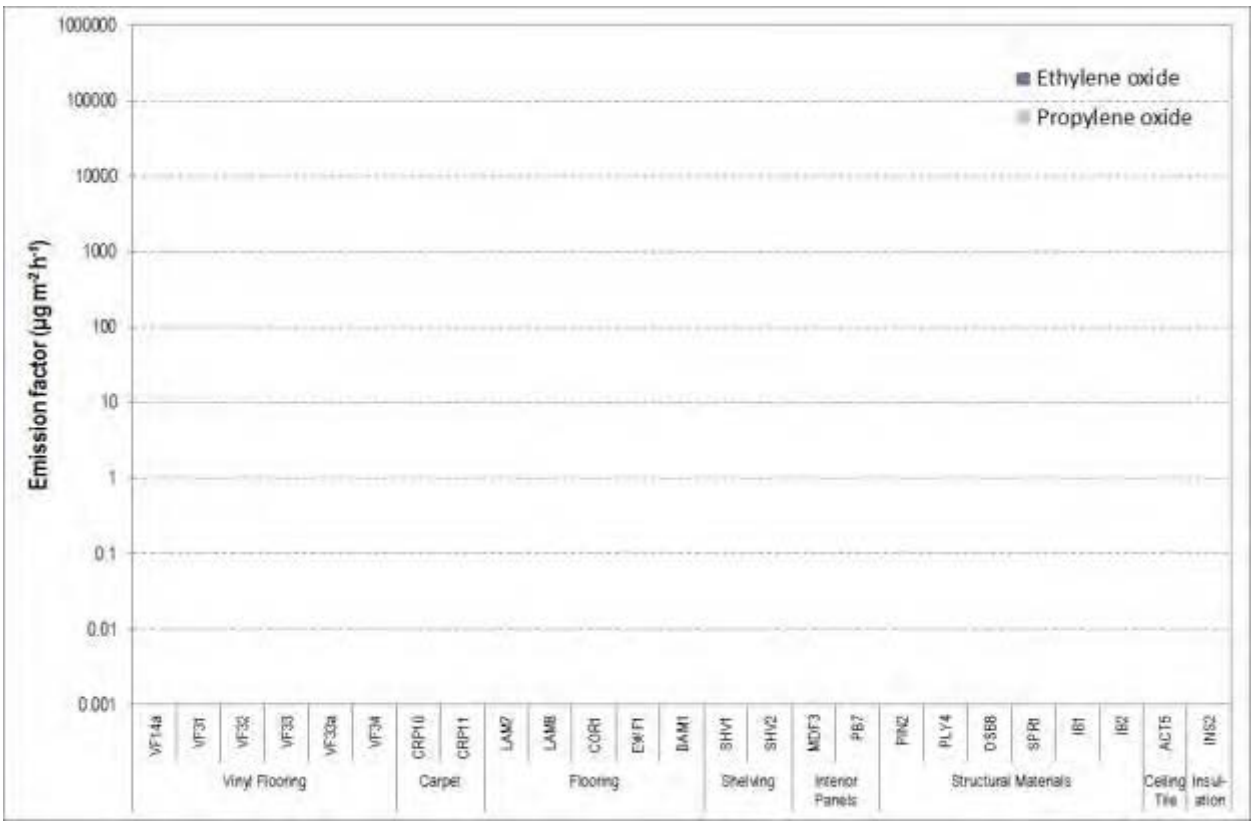


Figure 36: Emission factors for dry building materials (ethylene oxide and propylene oxide)

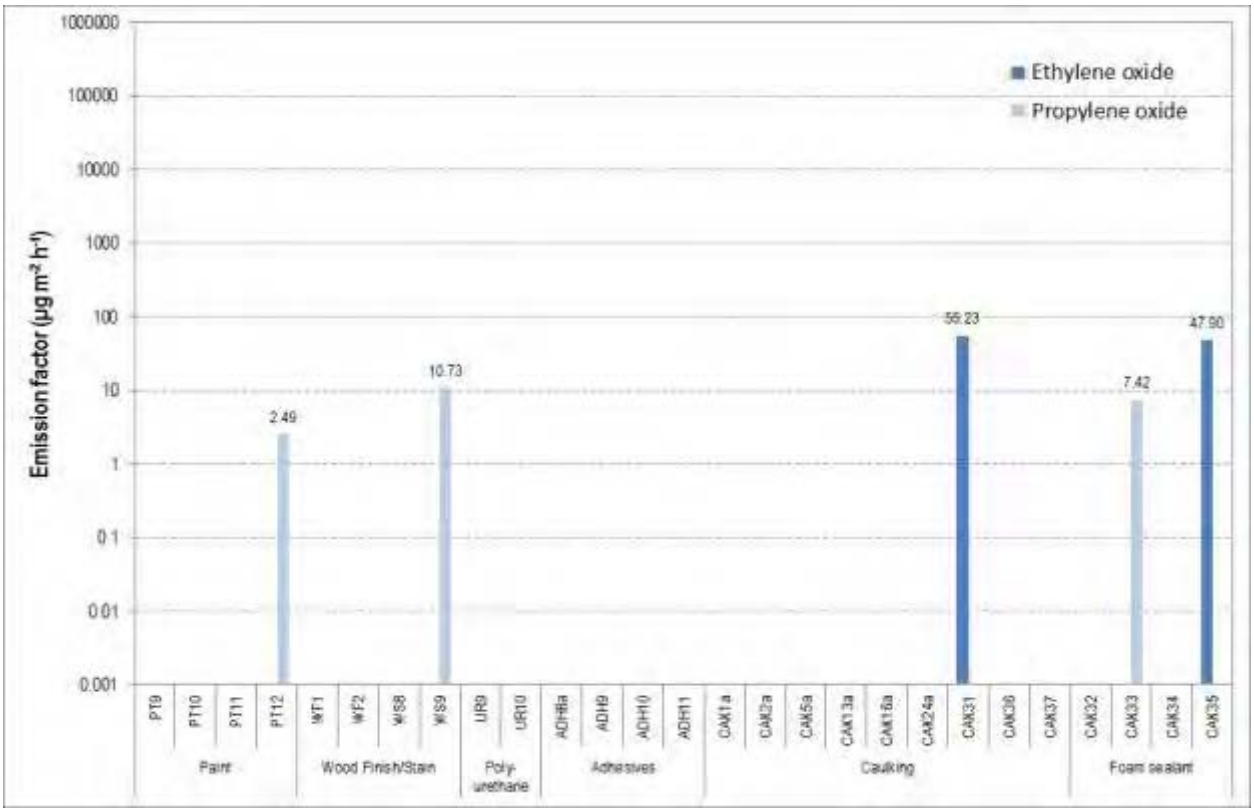


Figure 37: Emission factors for wet building materials (ethylene oxide and propylene oxide)

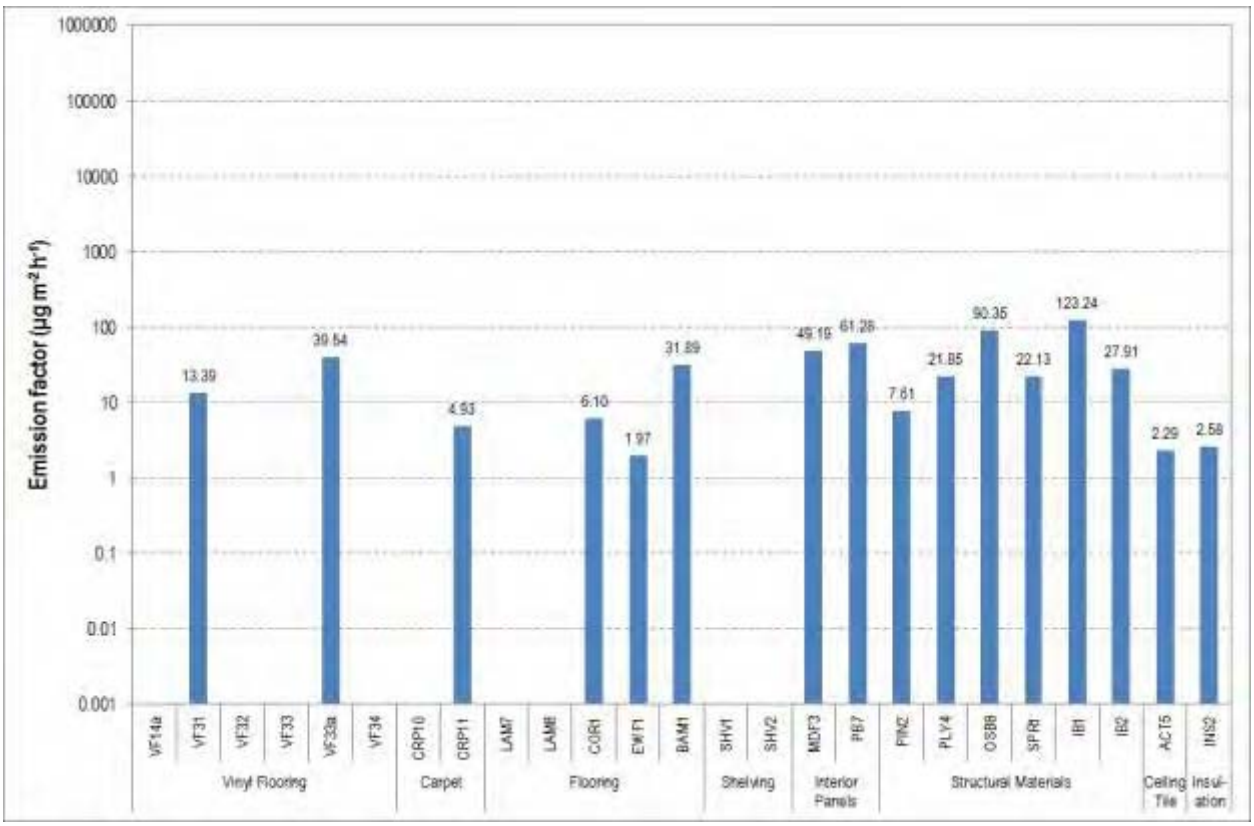


Figure 38: Emission factors for dry building materials (acetaldehyde)

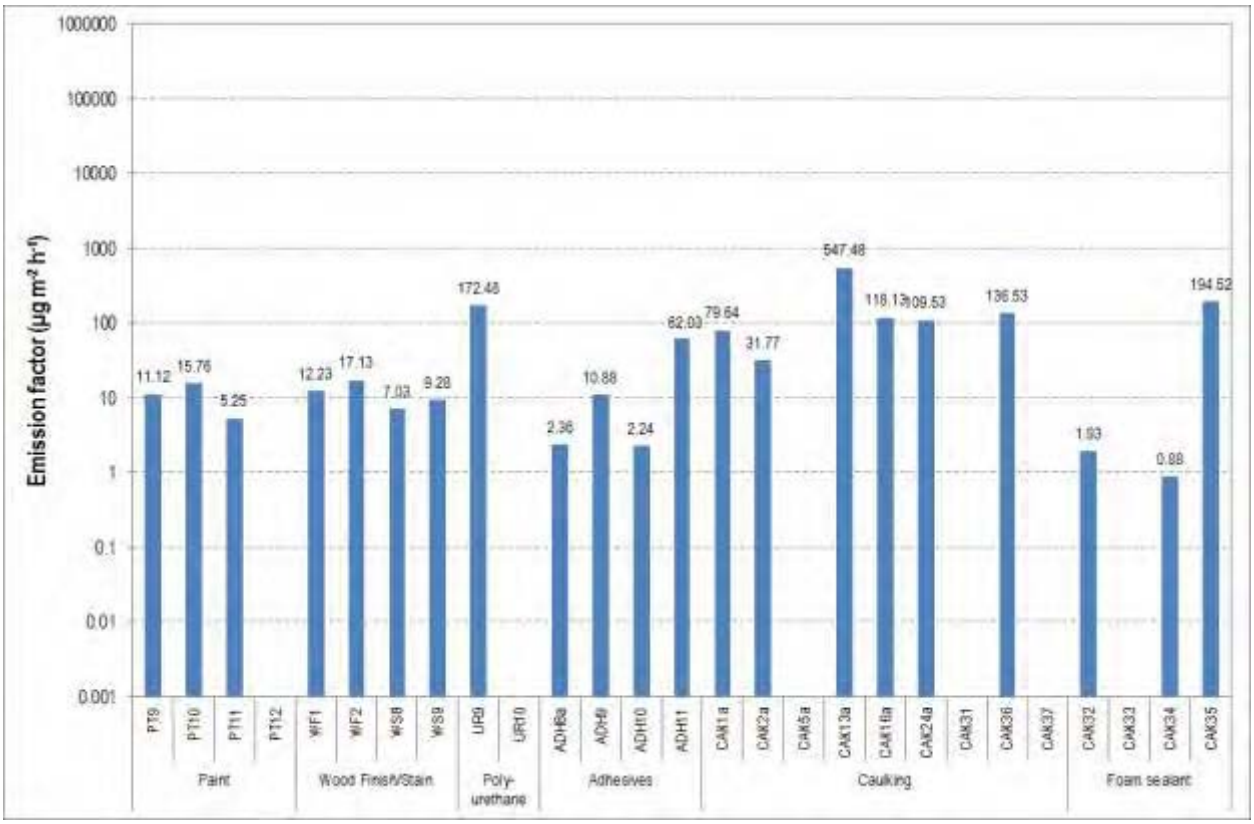


Figure 39: Emission factors for wet building materials (acetaldehyde)

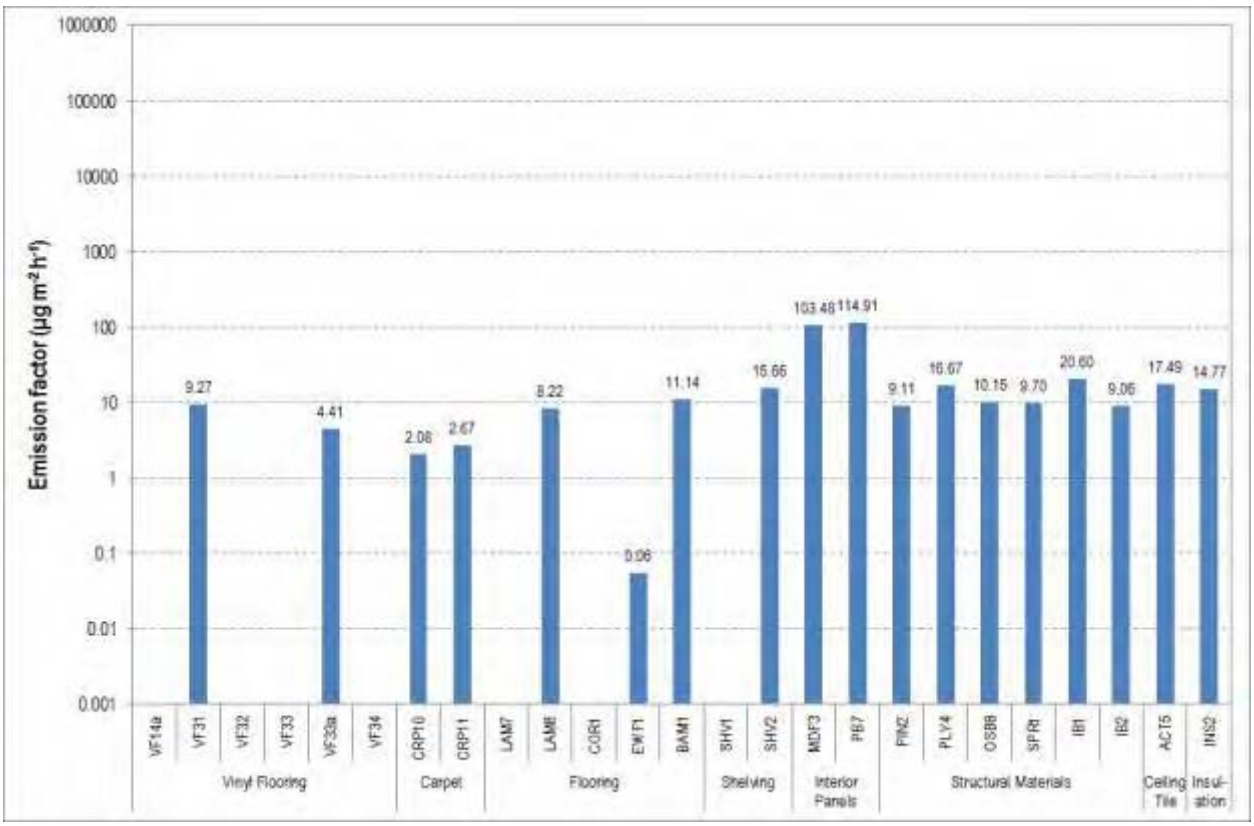


Figure 40: Emission factors for dry building materials (formaldehyde)

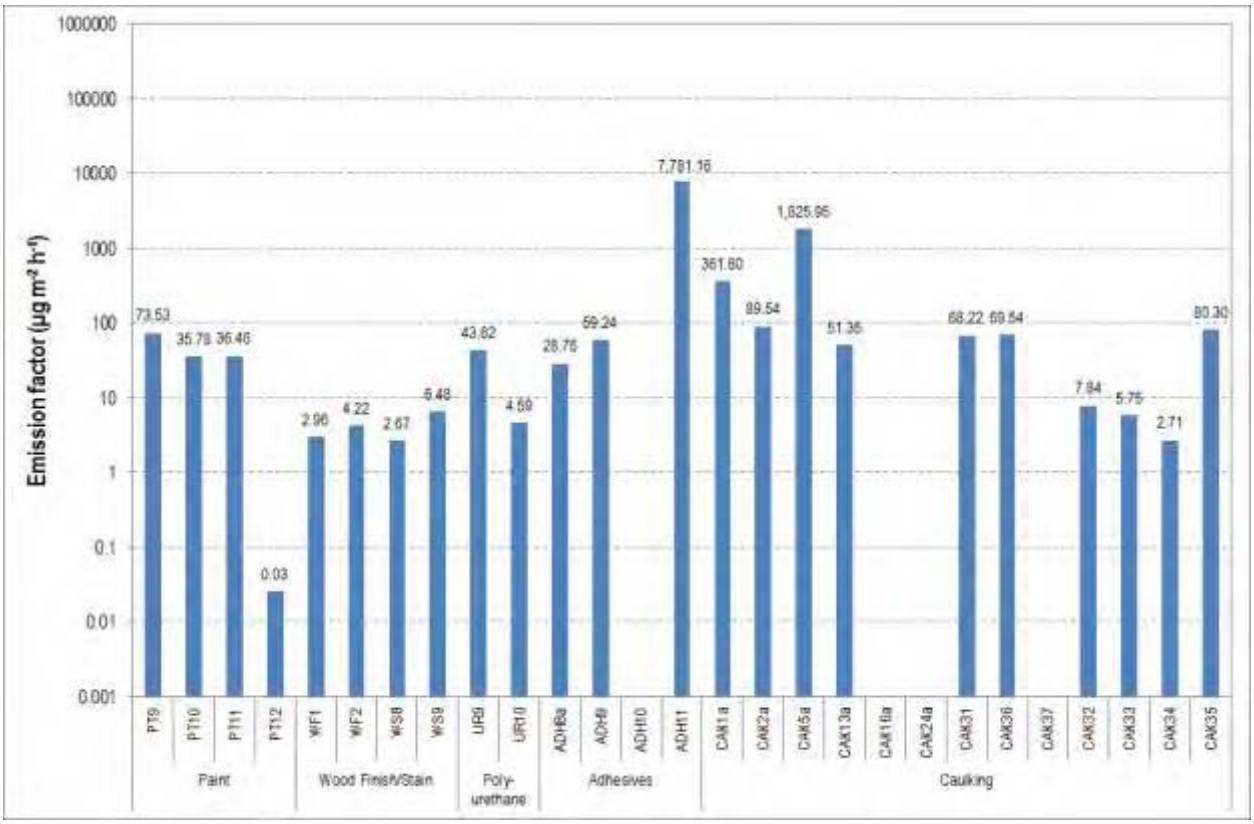


Figure 41: Emission factors for wet building materials (formaldehyde)

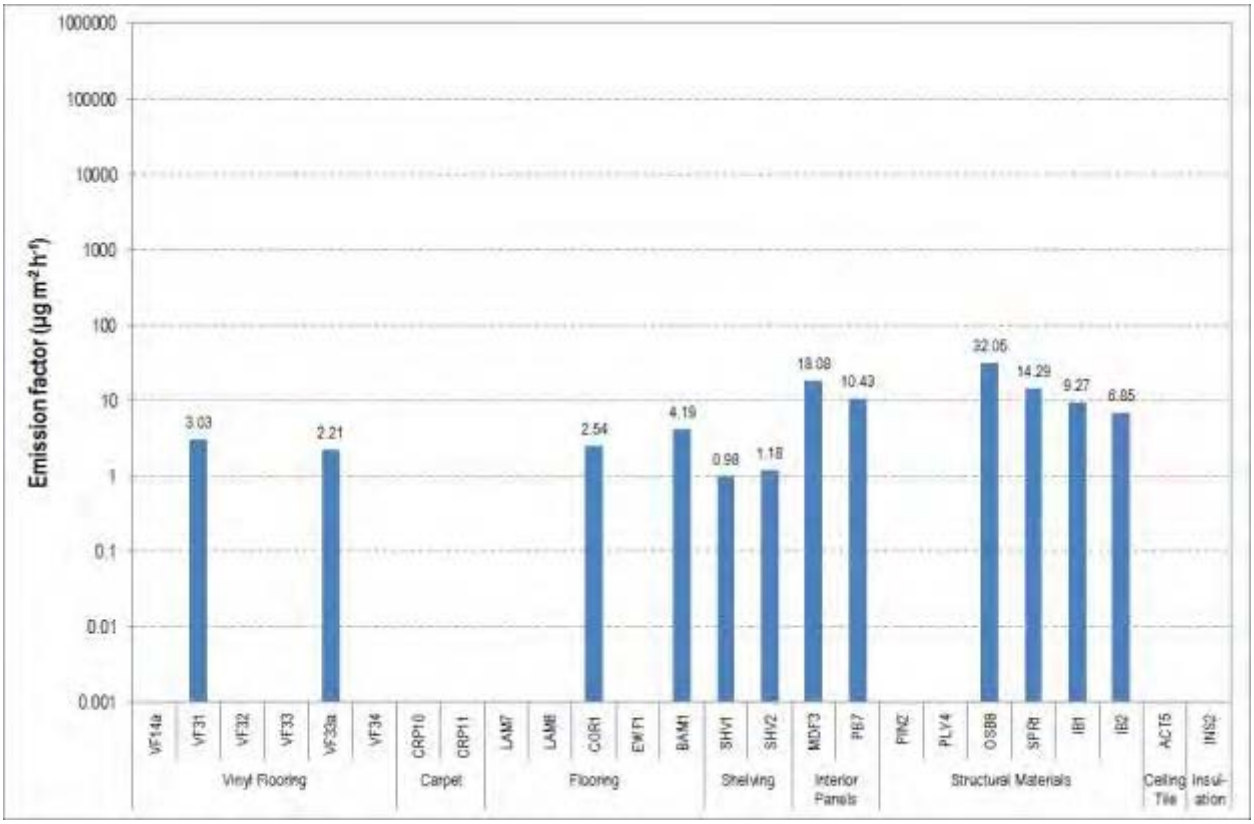


Figure 42: Emission factors for dry building materials (propanal)

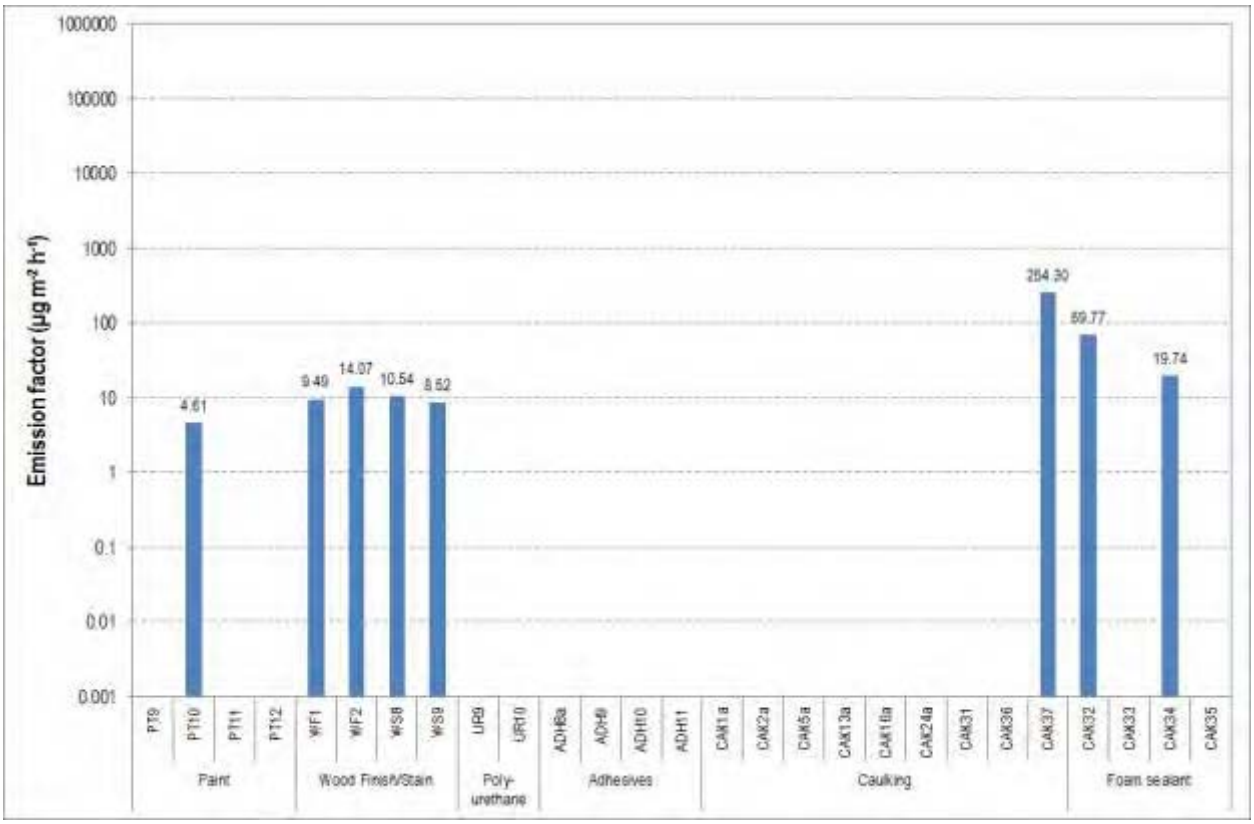


Figure 43: Emission factors for wet building materials (propanal)

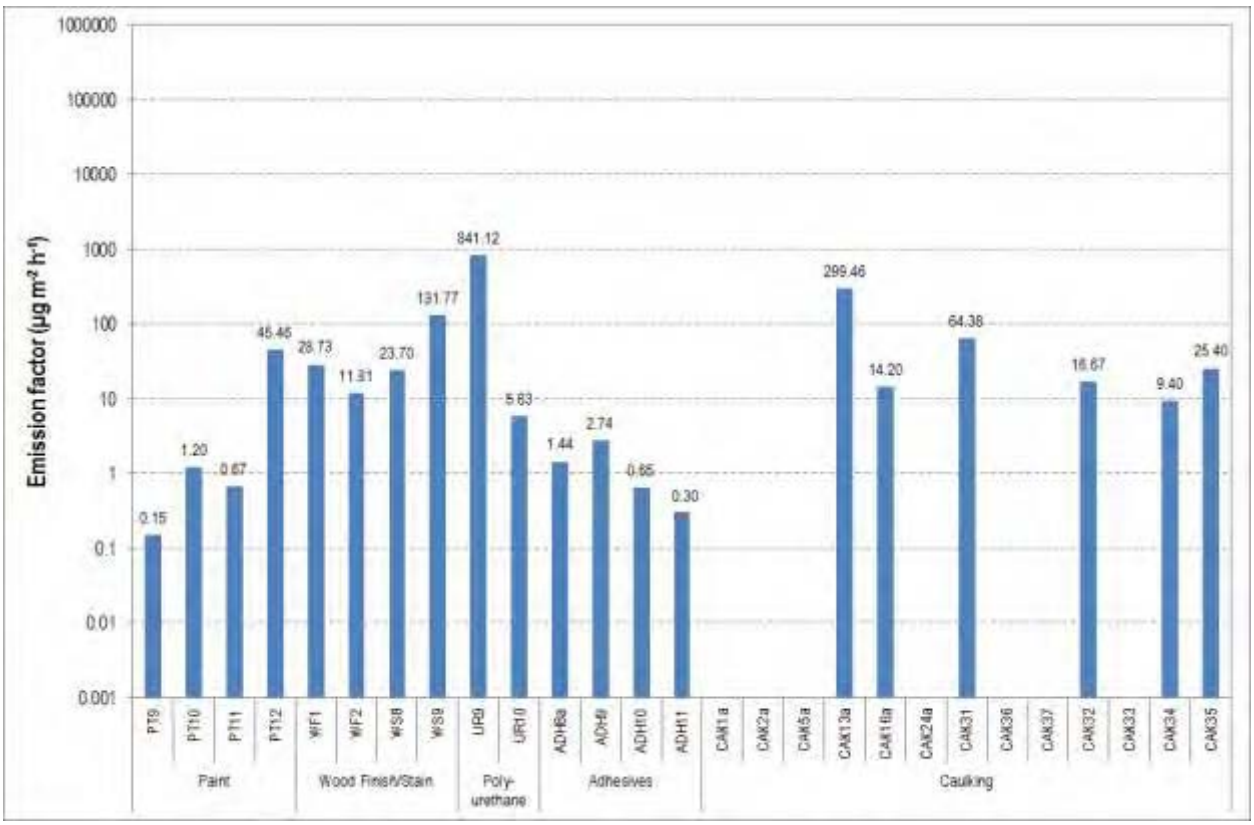


Figure 44: Emission factors for dry building materials (acrolein)

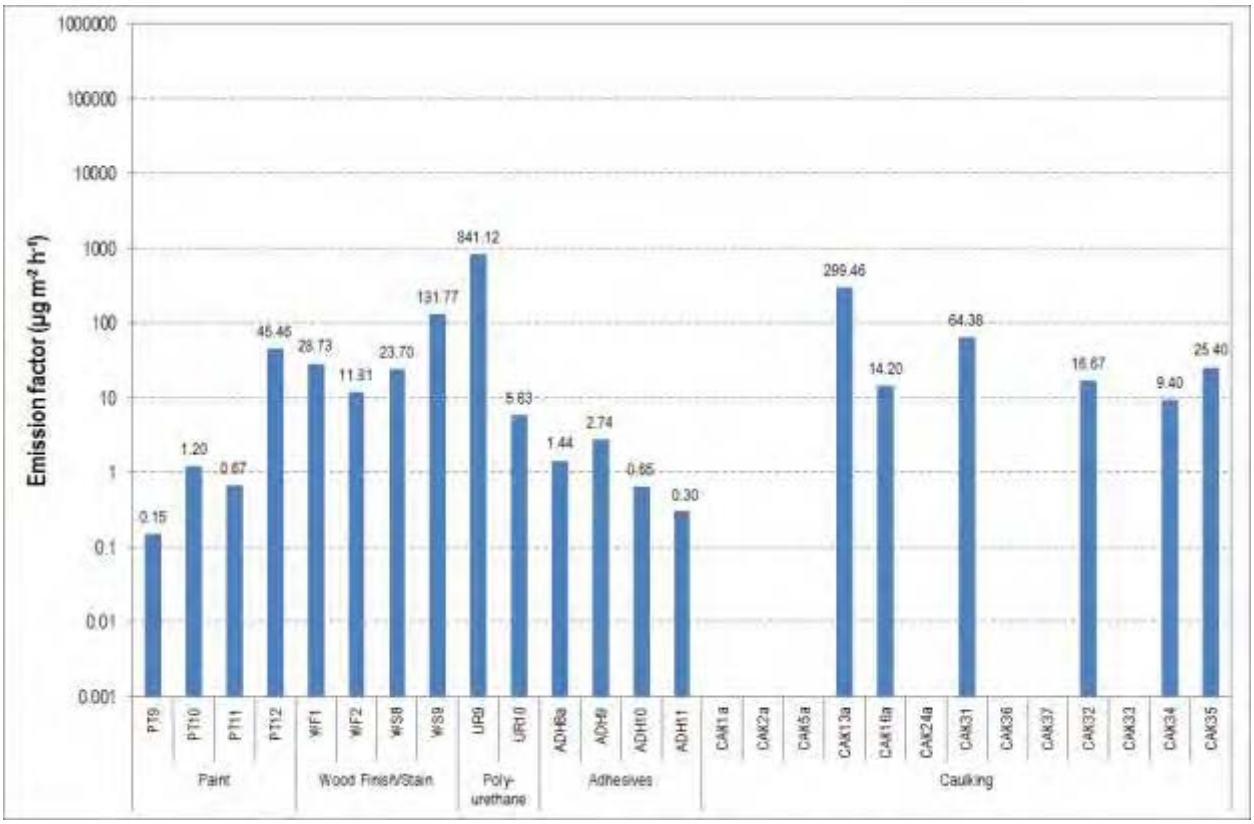


Figure 45: Emission factors for wet building materials (acrolein)

3.3.13 Acrolein

Acrolein was detected in various materials, including 64 % of dry materials and 74 % of wet materials (Table 8). The emission factors at 24 hour are shown in Figure 44 and Figure 45. The emission factors associated with dry materials were low with an average of 1.4 $\mu g\ m^{-2}\ h^{-1}$. For wet materials, the emissions factors ranged from 0.1 to 841 $\mu g\ m^{-2}\ h^{-1}$ with an average of 76.3 $\mu g\ m^{-2}\ h^{-1}$. The biggest emitter of acrolein was oil-based polyurethane coating (UR9).

The frequent detection of acrolein is in line with the observation made by Seaman et al. (2007). It was reported that the indoor acrolein concentrations were higher than outdoor air concentration by one order of magnitude, which was mostly attributed to cooking. Also, high acrolein concentrations were found in newly built and uninhabited homes, indicating major indoor sources other than cooking. According to the content analysis by Seaman et al. (2007), acrolein was detected in latex paint, particle board, and various lumber species (Douglas fir, pine, yellow poplar and red oak). No acrolein was measured in nylon carpet, wood adhesive and drywall. Due to the difference in the test method and the reporting unit, no comparison was made for emission factors measured in Seaman et al (2007) and the current study.

On the hand, the opposite observation was made in Liu et al. (2006). They reported that the indoor air concentrations measured in 234 homes were similar to outdoor concentrations, indicating the contributions of indoor sources were negligible. In comparison to this observation, the frequent detection of acrolein in this study may be considered as false positive due to high blank and background values. Until more validation study is conducted, preferably with a sampling method involving no derivatization, caution is required to interpret the current acrolein results.

3.4 Indoor air concentrations

The indoor air concentrations were estimated based on the material usage scenario in Table 7. The simulation was performed for a 10-day period, which can be considered as the duration between renovation and occupancy. The coefficients of the power-law decay models in the appendix were used. The resulting indoor air concentrations of selected "priority" chemicals are presented in Figure 46 to Figure 55. The blue line is the overall indoor air concentration and other lines are to show the contributions from individual sources. For chemicals such as 1,3(4)-dimethylbenzene and toluene, the dominant source at the beginning decays faster and other sources become dominant at 10 days. For the other chemicals, one source is dominant over the whole period of 10 days.

Table 12 compares the predicted indoor air concentration levels at 10 days with IAQ measurements reported in literature. Except for formaldehyde, the predicted concentrations are within the measurement ranges. In particular, the result associated with acrolein is encouraging considering the suspicion that the frequent detection of acrolein in various materials might be false positive due to high blank levels as discussed in the previous section.

The comparison with the measured values is not likely to be the definite evidence for proving the validity of the modeling approach in light of the wide range of the measured concentrations in filed investigations. However, it shows the possibility that the modeling approach based on the material usage scenario representative of major indoor sources found in Canadian homes can provide reasonable information. Overall, the analysis for more diverse scenarios is recommended for more useful and generalized information. One suggestion is to use Monte Carlo simulations after the distributions of each parameter of Eq. (1) and Eq. (3) are understood.

Table 12: Comparison of predicted IAQ concentration with literature data

	Predicted conc. at 10 days ($\mu g\ m^{-3}$)	Concentration in literature ($\mu g\ m^{-3}$)
Benzene	1.2	0.025 - 20.99 (2.15) [a]
1,2-Dimethylbenzene	0.3	0.01 - 205.11 (1.22) [a]
1,3(4)-Dimethylbenzene	0.4	0.02 - 138.97 (3.59) [a]
Ethylbenzene	5.8	0.005 - 201.41 (1.05) [a]
Naphthalene	0.9	0.01 - 144.44 (0.39) [a]
Toluene	0.4	0.015 - 112.9 (5.53) [a]
Acetaldehyde	22.4	0.49 – 48.8 (12.69) [b]
Formaldehyde	126.0	5.09 – 93.88 (35.46) [b]
Propanal	8.1	-
Acrolein	6.5	0.44 – 6.81 (1.35) [b] 5 [c]

[a] Min – Max (Median) measured in winter in 75 homes (Zhu et al., 2005)
[b] Min – Max (Mean) measured in summer in 69 homes (Héroux et al., 2010)
[c] Mean value of the measurement in four model homes in California (Seaman et al., 2007)

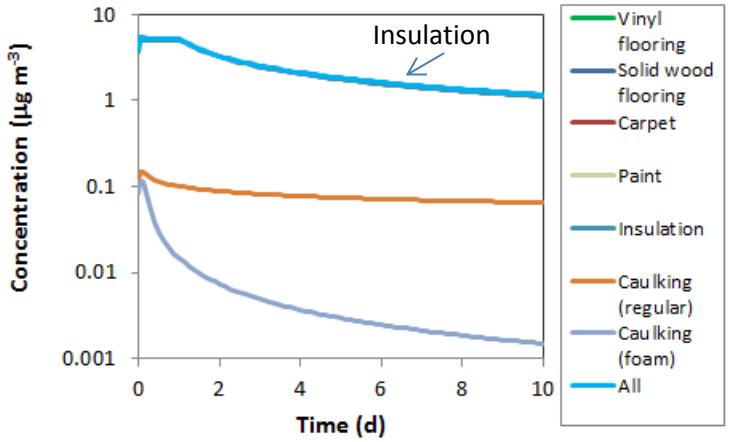


Figure 46: Predicted concentration of benzene

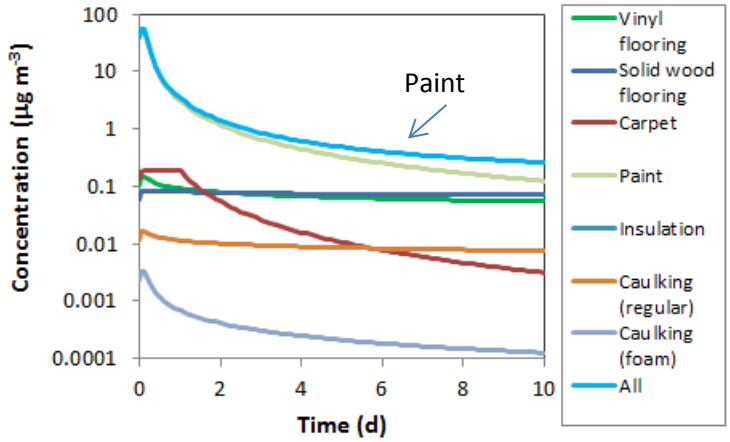


Figure 47: Predicted concentration of 1,2-dimethylbenzene

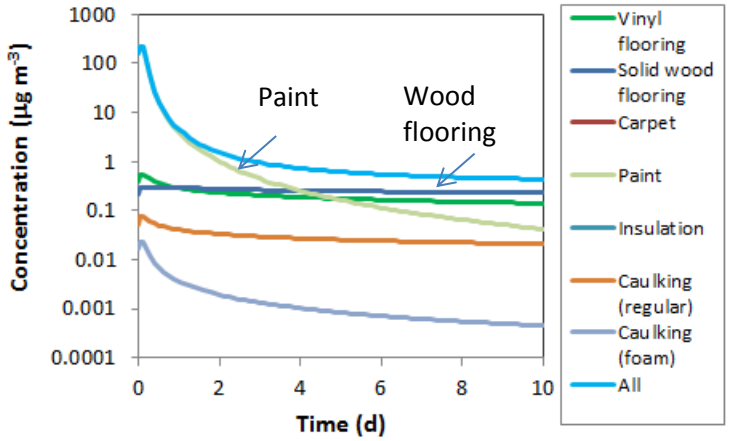


Figure 48: Predicted concentration of 1,3(4)-dimethylbenzene

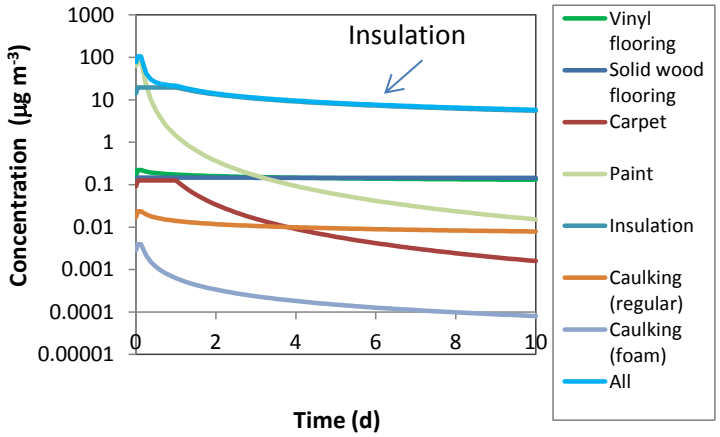


Figure 49: Predicted concentration of ethylbenzene

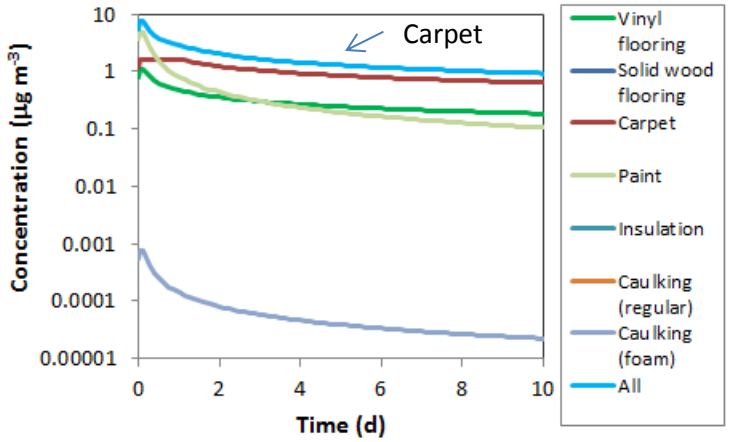


Figure 50: Predicted concentration of naphthalene

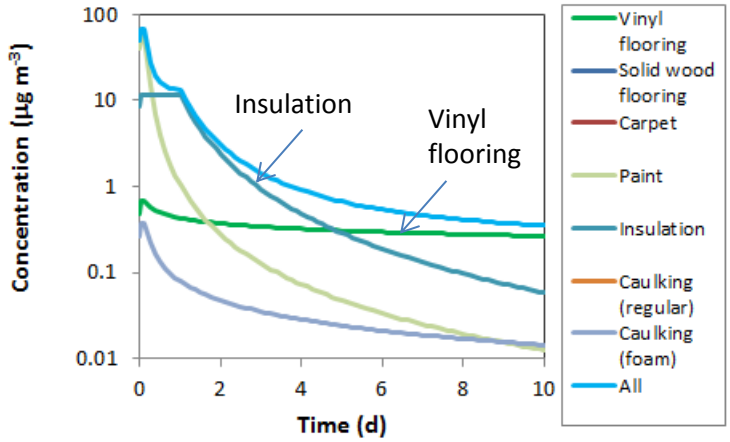


Figure 51: Predicted concentration of toluene

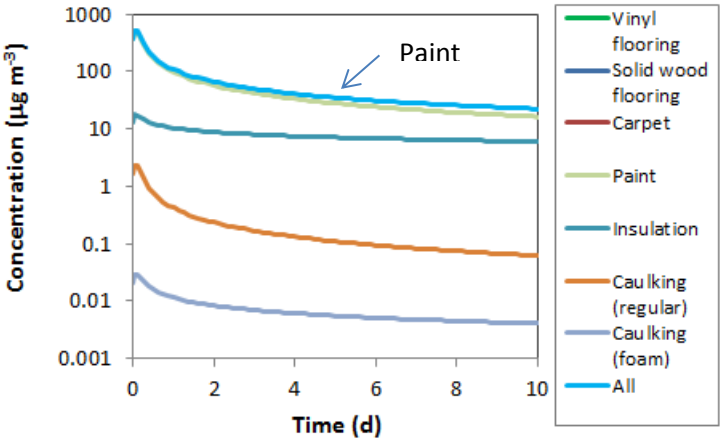


Figure 52: Predicted concentration of acetaldehyde

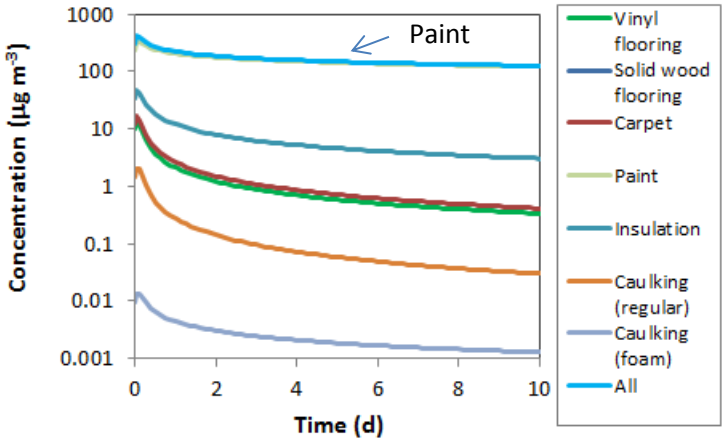


Figure 53: Predicted concentration of formaldehyde

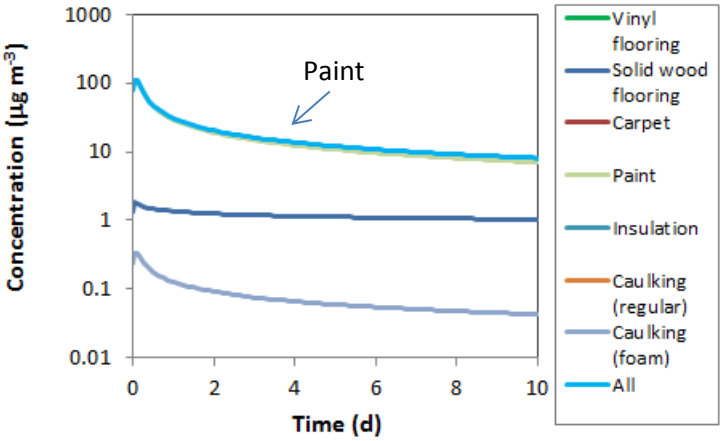


Figure 54: Predicted concentration of propanal

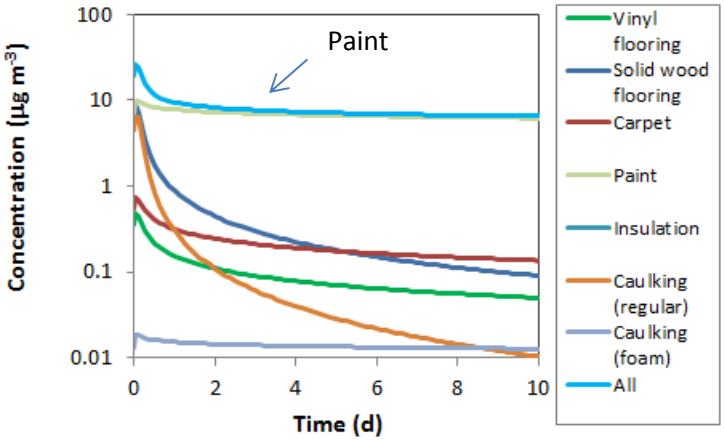


Figure 55: Predicted concentration of acrolein

3.5 Comparison of small-scale and micro-scale chamber test results

The detection frequency of 124 compounds is compared in Table 13 for the small-scale (SC) and micro-scale (MC) test. The detection frequency is based on the measurement taken at 24 hour for the SC test, while it is based on the measurements taken at 1.5 hour for the MC test. Overall, the detection frequency of each chemical was similar for both chamber tests with some variations. This indicates that the results from both chamber tests are comparable if the purpose of the comparison is to check whether a specific chemical is emitted or not.

The emission factors of a sub-set of compounds and materials were compared for the SC and MC test. Oxygenated compounds (alcohols, aldehydes, ketones, esters, glycols and glycol ethers) were not included in the comparison since they tend to have bigger uncertainties compared to aliphatic and aromatic hydrocarbons. Trichloroethylene was also excluded due to background contamination. The tests with insufficient numbers of data points were excluded from the comparison. From dry material tests, the tests with two i-beam specimens (IB1 and IB2) were excluded as the test mode was different (surface emission tests in MC vs. bulk emission tests in SC). For wet materials, the test was eliminated unless identical specimen holders were used for both tests. Therefore, most of caulking tests except for foam sealants (CAK32 – 35) were excluded. After the elimination process, the final list included 10 dry materials (SHV1, CRP10, CRP11, COR1, EWF1, BAM1, VF32, VF33, INS2 and SPR1) and 12 wet materials (PT9, PT11, ADH9, ADH8a, ADH10, VF33a, WF1, WS8, UR9, CAK32, CAK34 and CAK35).

The first comparison was made to see whether there is any linearity between MC and SC measurements collected at the same time. The purpose is to determine whether the 4-day MC test can produce comparable and scalable results to those of the 4-day SC test. The emission factors measured at 24 h, 48 h, 72 h and 96 h in a small-scale chamber are plotted against those in a micro-scale chamber in Figure 56 to Figure 65 for dry materials and in Figure 66 to Figure 77 for wet materials. Emission factors of various compounds measured at the same time were displayed in an identical color.

The linearity between the SC and MC test results was generally good with R^2 ranging from 0.6094 to 0.9921 for dry materials (0.85 on average) and from 0.7179 to 0.9741 for wet materials (0.85 on average). The materials with R^2 greater than 0.95 included CRP10, COR1, VF33, INS2, VF33a, UR9 and CAK34. However, the magnitude of the linearity (ratio of emission factor from SC to emission factor from MC) showed more variations, ranging from 0.0791 to 0.9732 for dry materials and from 0.4408 to 4.5532 for wet materials. For dry materials, the emission factors from a micro-chamber were greater than those from a small-scale chamber. A similar observation was made for wet materials applied on substrates such as gypsum board and vinyl flooring (PT9, PT10 and VF33a). However, the opposite was observed for wet materials applied on substrates such as metal plate and maple (ADH8a, ADH9, ADH10, WF1, WS8 and UR9). Foam sealants prepared in a container showed slightly smaller emission factors in small-scale tests than in micro-scale chamber tests. This indicates that a linear relationship is likely to exist between MC and SC data measured between 24 h and 96 h, but it is material-specific rather than universal for all materials.

Table 13: Detection frequency of 124 compounds compared for the SC and MC test

#	Class	CAS#	Compound	Detection frequency (%)					
				Small-scale Chamber			Micro-scale Chamber		
				All [1]	Solid [2]	Liquid [3]	All [1]	Solid [2]	Liquid [3]
1	Alcohols	71-36-3	1-Butanol	69	88	52	58	64	52
2		71-23-8	1-Propanol	8	12	4	6	4	7
3		104-76-7	Hexanol, 2-ethyl-1-	65	80	52	40	40	41
4		67-63-0	2-Propanol	31	24	37	42	32	52
5		64-17-5	Ethanol	37	36	37	67	76	59
6		108-95-2	Phenol	65	68	63	69	88	52
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	38	44	33	52	60	44
8		67-64-1	Acetone	85	92	78	88	100	78
9		98-86-2	Acetophenone	60	60	59	69	76	63
10		108-94-1	Cyclohexanone	19	40	0	19	36	4
11		108-10-1	Methylisobutyl ketone	21	28	15	29	32	26
12		100-52-7	Benzaldehyde	75	80	70	81	88	74
13		123-72-8	Butanal	27	32	22	35	36	33
14		112-31-2	Decanal	2	4	0	2	0	4
15		3913-81-3	2-Decenal	8	12	4	6	8	4
16		98-01-1	Furfural	19	36	4	21	36	7
17		111-71-7	Heptanal	31	44	19	21	40	4
18		66-25-1	Hexanal	52	76	30	58	88	30
19		124-19-6	Nonanal	27	44	11	29	52	7
20		18829-56-6	2-Nonenal	8	16	0	4	4	4
21		124-13-0	Octanal	17	32	4	19	32	7
22		2548-87-0	2-Octenal	15	28	4	17	28	7
23		110-62-3	Pentanal	42	56	30	44	52	37
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-	8	4	11	8	4	11
25		96-14-0	Pentane, 3-methyl-	15	4	26	13	4	22
26		540-84-1	2,2,4-Trimethylpentane	12	12	11	2	0	4
27		108-08-7	2,4-Dimethylpentane	2	0	4	6	4	7
28		124-18-5	Decane	69	60	78	65	52	78
29		112-40-3	Dodecane	60	64	56	60	60	59
30		142-82-5	Heptane	25	16	33	23	12	33
31		544-76-3	Hexadecane	37	52	22	31	36	26
32		110-54-3	Hexane	25	24	26	15	12	19
33		111-84-2	Nonane	44	36	52	52	44	59
34		111-65-9	Octane	37	28	44	46	36	56
35		629-62-9	Pentadecane	50	52	48	33	40	26
36		629-59-4	Tetradecane	60	64	56	46	52	41
37		629-50-5	Tridecane	44	64	26	38	56	22
38		1120-21-4	Undecane	65	52	78	60	56	63

Table 13 (continued)

#	Class	CAS#	Compound	Detection frequency (%)					
				Small-scale Chamber			Micro-scale Chamber		
				All [1]	Solid [2]	Liquid [3]	All [1]	Solid [2]	Liquid [3]
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-	35	24	44	37	24	48
40		611-14-3	Toluene, 2-ethyl-	56	44	67	56	44	67
41		620-14-4	Toluene, 3-ethyl-	60	56	63	75	68	81
42		622-96-8	Toluene, 4-ethyl-	60	52	67	71	60	81
43		31017-40-0	Cyclohexene, 4-phenyl	19	24	15	17	16	19
44		71-43-2	Benzene	40	36	44	42	40	44
45		526-73-8	Benzene, 1,2,3-trimethyl-	42	40	44	54	48	59
46		95-63-6	Benzene, 1,2,4-trimethyl-	63	60	67	65	56	74
47		95-47-6	Benzene, 1,2-dimethyl-	83	72	93	83	76	89
48		108-67-8	Benzene, 1,3,5-trimethyl-	56	52	59	71	60	81
49		108-38-3	Benzene, 1,3-dimethyl-	92	84	100	90	80	100
50		98-82-8	Benzene, isopropyl	42	32	52	40	20	59
51		103-65-1	Benzene, propyl-	54	48	59	58	44	70
52		100-41-4	Ethylbenzene	92	84	100	90	84	96
53		91-20-3	Naphthalene	62	56	67	60	52	67
54		99-87-6	p-Cymene	48	60	37	48	56	41
55		100-42-5	Styrene	63	72	56	67	88	48
56		108-88-3	Toluene	75	68	81	83	76	89
57		98-83-9	2-Phenylpropene	17	16	19	21	20	22
58		95-13-6	Indene	17	8	26	21	8	33
59	Esters	108-21-4	Acetic acid, 1-methylethyl ester	2	0	4	2	0	4
60		111-15-9	Acetic acid, 2-ethoxyethyl ester	0	0	0	0	0	0
61		123-86-4	Acetic acid, butyl ester	21	20	22	27	24	30
62		141-78-6	Acetic acid, ethyl ester	27	20	33	23	16	30
63		80-62-6	Methyl methacrylate	2	0	4	4	4	4
64		103-09-3	2-Ethylhexyl acetate	8	0	15	13	4	22
65		96-48-0	Butyrolactone	4	8	0	2	4	0
66		25265-77-4	Texanol	29	32	26	15	8	22
67		6846-50-0	TXIB	63	72	56	48	76	22
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol	17	4	30	12	4	19
69		110-49-6	2-Methoxyethylacetate	0	0	0	0	0	0
70		111-90-0	Diethylene glycol monoethyl ether	4	4	4	4	4	4
71		107-98-2	Propanol, 1-methoxy-2-	8	12	4	4	8	0
72		111-76-2	Ethanol, 2-butoxy-	19	24	15	19	16	22
73		112-34-5	Ethanol, 2-butoxyethoxy-	15	12	19	13	12	15
74		110-80-5	Ethanol, 2-ethoxy-	0	0	0	0	0	0
75		109-86-4	Ethanol, 2-methoxy-	0	0	0	0	0	0
76		75-65-0	Propanol, 2-methyl-2-	21	4	37	29	8	48
77		5131-66-8	Proylene glycol monobutyl ether	4	4	4	6	4	7
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane	0	0	0	0	0	0
79		95-50-1	1,2-Dichlorobenzene	0	0	0	4	4	4
80		107-06-2	1,2-Dichloroethane	2	4	0	4	8	0
81		78-87-5	1,2-Dichloropropane	6	0	11	19	16	22
82		106-46-7	1,4-Dichlorobenzene	10	16	4	13	12	15
83		75-27-4	Bromodichloromethane	2	4	0	0	0	0

Table 13 (continued)

#	Class	CAS#	Compound	Detection frequency (%)					
				Small-scale Chamber			Micro-scale Chamber		
				All [1]	Solid [2]	Liquid [3]	All [1]	Solid [2]	Liquid [3]
84	Halo Carbons	56-23-5	Carbon tetrachloride	0	0	0	0	0	0
85		67-66-3	Chloroform	12	24	0	6	4	7
86		124-48-1	Dibromochloromethane	0	0	0	0	0	0
87		75-09-2	Dichloromethane	0	0	0	4	8	0
88		127-18-4	Tetrachloroethylene	2	4	0	6	4	7
89		79-01-6	Trichloroethylene	58	76	41	54	64	44
90		79-34-5	1,1,2,2-Tetrachloroethane	0	0	0	0	0	0
91	Cyclo Alkanes	108-87-2	Methylcyclohexane	23	12	33	27	8	44
92		110-82-7	Cyclohexane	12	12	11	12	4	19
93		1678-93-9	Cyclohexane, butyl-	21	8	33	29	16	41
94		1678-91-7	Cyclohexane, ethyl-	21	8	33	29	8	48
95		1678-92-8	Cyclohexane, propyl-	19	4	33	35	12	56
96		91-17-8	Decahydronaphthalene	15	0	30	19	4	33
97	Terpenes	80-56-8	alpha-Pinene	42	76	11	46	84	11
98		99-86-5	alpha-Terpinene	8	4	11	10	8	11
99		127-91-3	beta-Pinene	37	64	11	38	68	11
100		99-85-4	gamma-Terpinene	8	4	11	8	4	11
101		13466-78-9	3-Carene	12	24	0	15	32	0
102		79-92-5	Camphene	13	16	11	19	28	11
103		5989-27-5	Limonene	42	68	19	48	68	30
104	Acids	64-19-7	Acetic acid	40	52	30	40	56	26
105		79-31-2	Isobutyric acid	4	8	0	4	8	0
106		107-92-6	Butyric acid	6	12	0	2	4	0
107		111-14-8	Heptanoic acid	2	4	0	0	0	0
108		149-57-5	2-Ethylhexanoic acid	8	4	11	17	12	22
109		142-62-1	Hexanoic acid	12	24	0	13	28	0
110		109-52-4	Pentanoic Acid	10	20	0	2	4	0
111	Other	3777-69-3	Furan, 2-pentyl	23	36	11	35	52	19
112		872-50-4	2-Pyrrolidinone, 1-methyl-	6	0	11	4	0	7
113		123-91-1	1,4-Dioxane	15	4	26	6	4	7
114		78-40-0	Triethyl phosphate	0	0	0	4	0	7
115		142-96-1	n-Butyl ether	23	8	37	25	8	41
116		96-29-7	2-Butanone oxime	0	0	0	6	0	11
117		121-44-8	Triethylamine	4	0	7	4	0	7
118		75-21-8	Ethylene oxide	4	0	7	2	0	4
119		75-56-9	Propylene oxide	6	0	11	4	0	7
120		106-99-0	1,3-Butadiene	0	0	0	0	0	0
121	DNPH	75-07-0	Acetaldehyde	71	64	78			
122		50-00-0	Formaldehyde	79	72	85			
123		123-38-6	Propanal	38	48	30			
124	PFPH	107-02-8	Acrolin	69	64	74	87	96	78

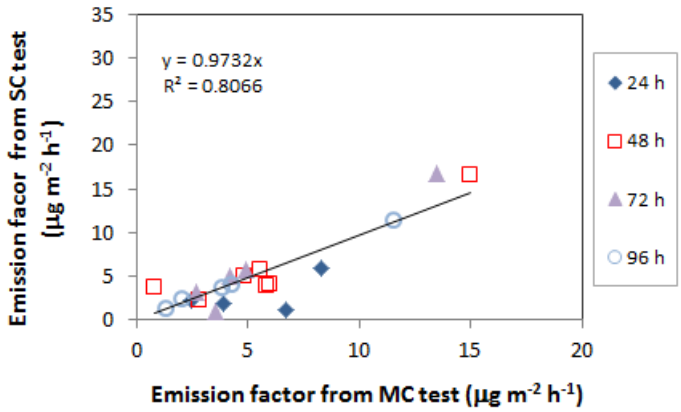


Figure 56: Emission factor at 24 – 96 h from MC and SC test (SHV1)

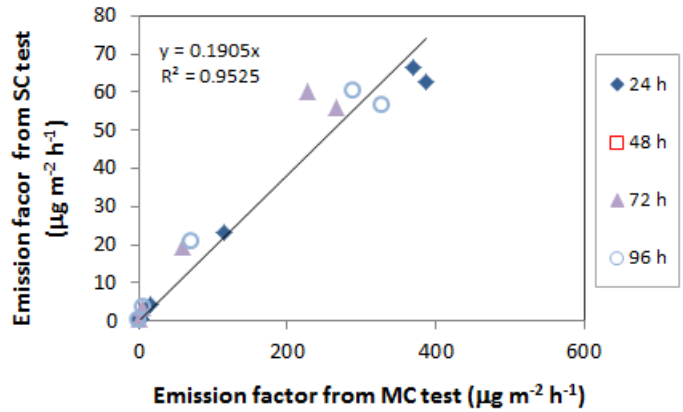


Figure 57: Emission factor at 24 – 96 h from MC and SC test (CRP10)

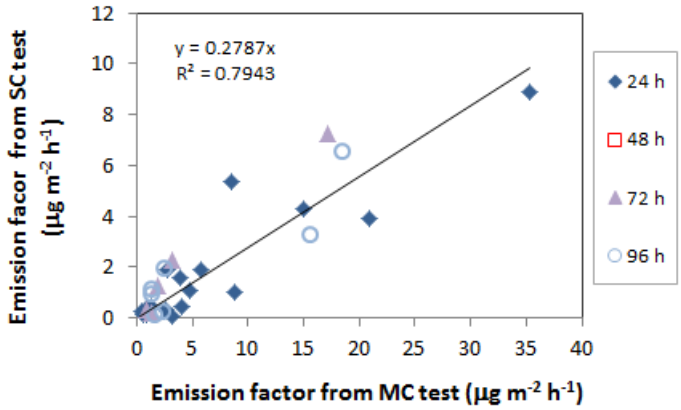


Figure 58: Emission factor at 24 – 96 h from MC and SC test (CRP11)

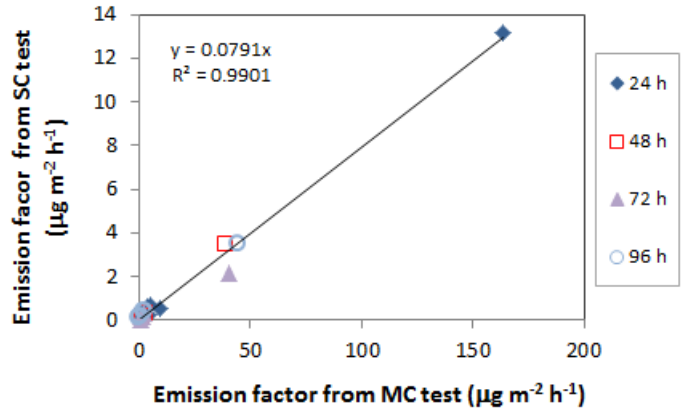


Figure 59: Emission factor at 24 – 96 h from MC and SC test (COR1)

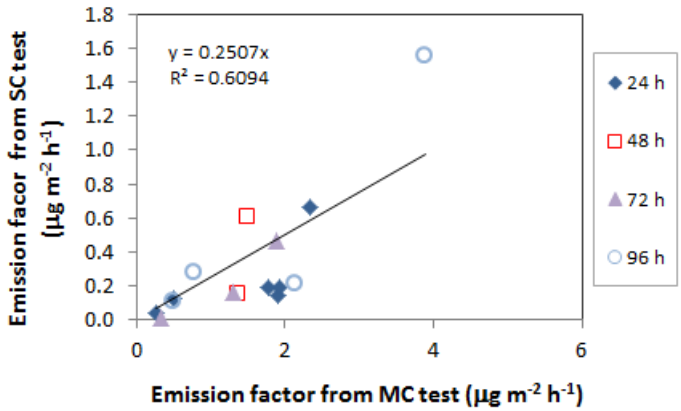


Figure 60: Emission factor at 24 – 96 h from MC and SC test (EWF1)

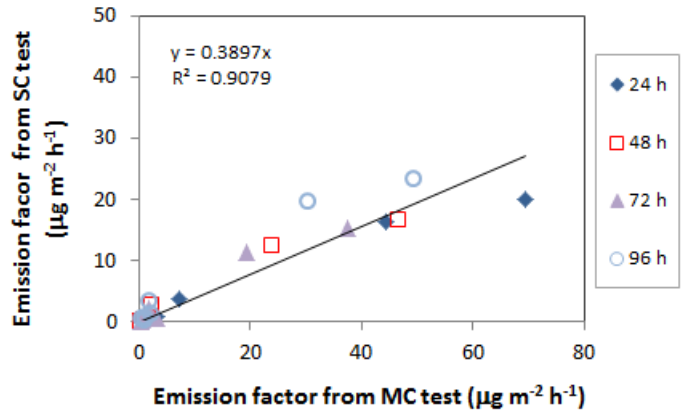


Figure 61: Emission factor at 24 – 96 h from MC and SC test (BAM1)

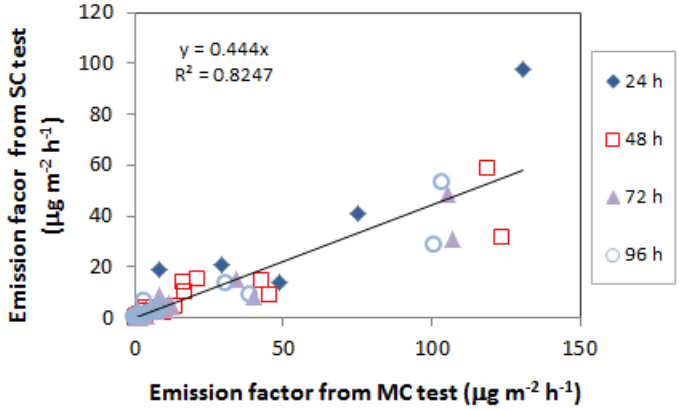


Figure 62: Emission factor at 24 – 96 h from MC and SC test (VF32)

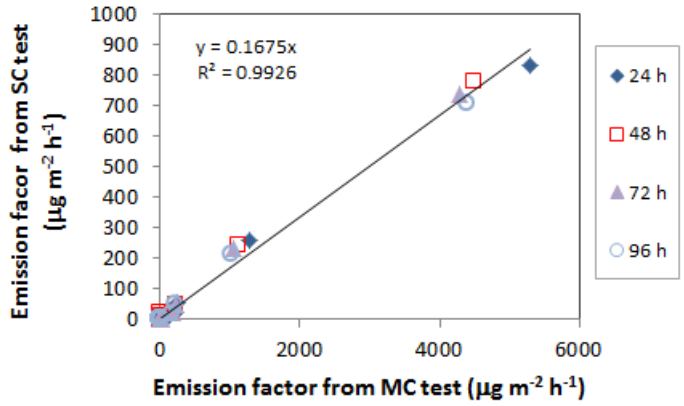


Figure 63: Emission factor at 24 – 96 h from MC and SC test (VF33)

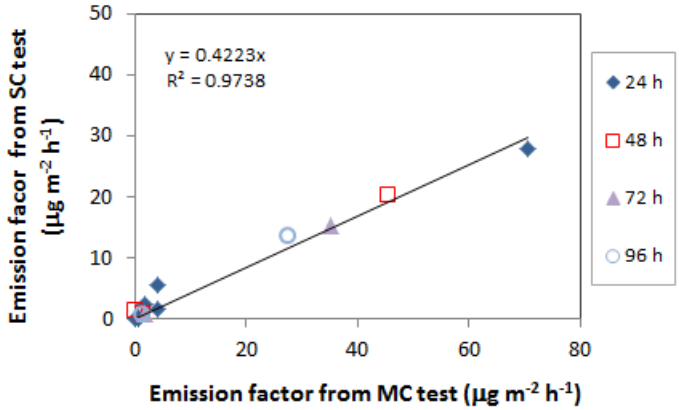


Figure 64: Emission factor at 24 – 96 h from MC and SC test (INS2)

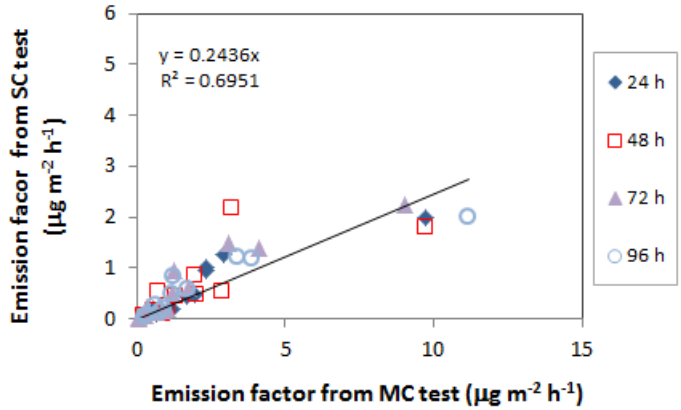


Figure 65: Emission factor at 24 – 96 h from MC and SC test (SPR1)

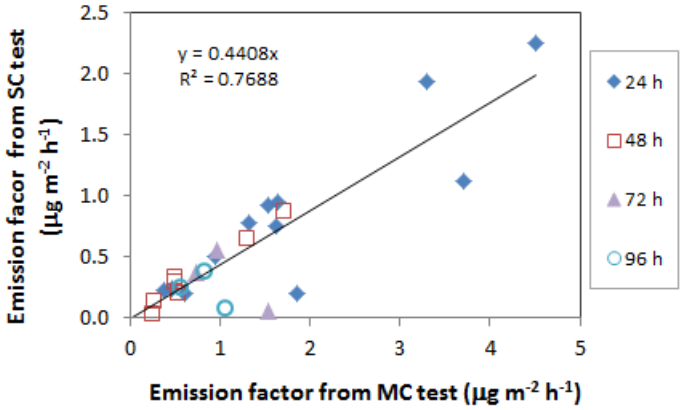


Figure 66: Emission factor at 24 – 96 h from MC and SC test (PT9)

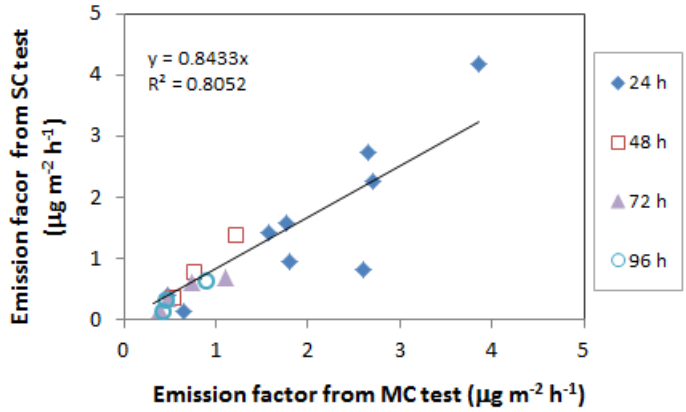


Figure 67: Emission factor at 24 – 96 h from MC and SC test (PT11)

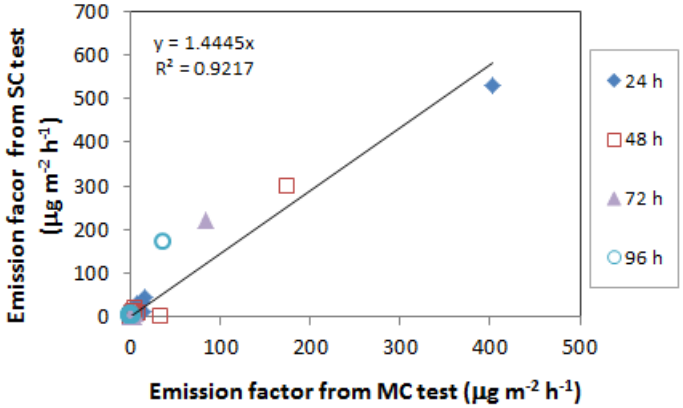


Figure 68: Emission factor at 24 – 96 h from MC and SC test (ADH8a)

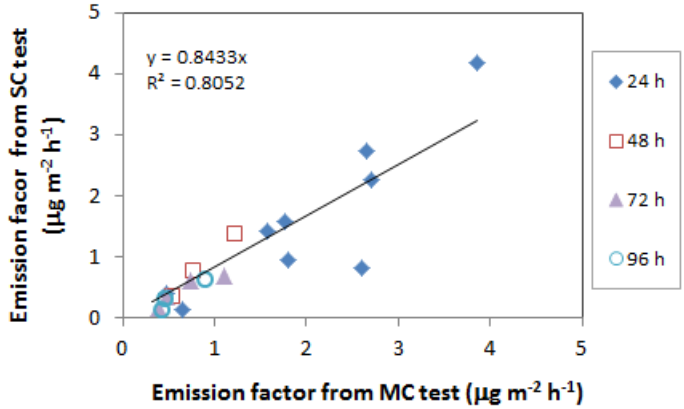


Figure 69: Emission factor at 24 – 96 h from MC and SC test (ADH9)

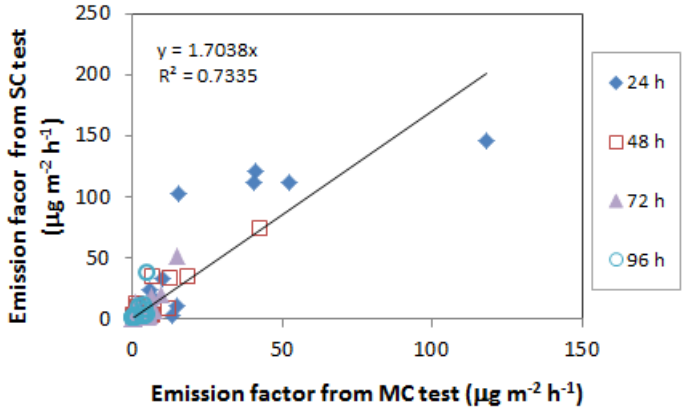


Figure 70: Emission factor at 24 – 96 h from MC and SC test (ADH10)

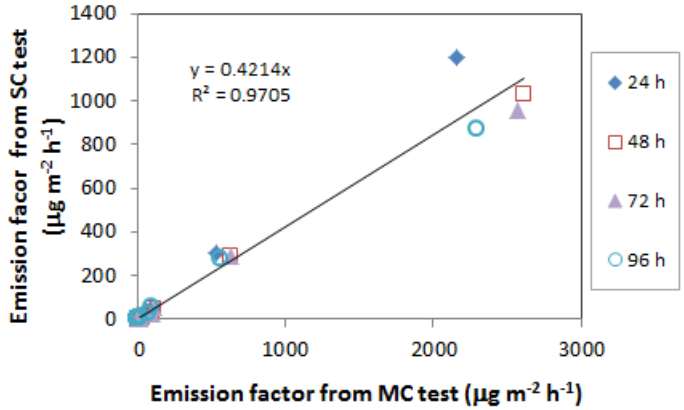


Figure 71: Emission factor at 24 – 96 h from MC and SC test (VF33a)

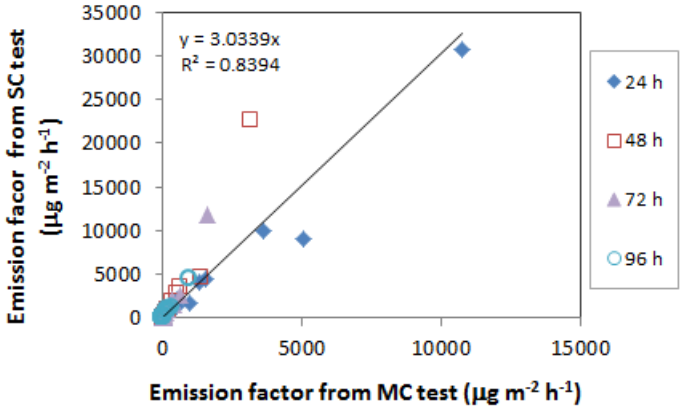


Figure 72: Emission factor at 24 – 96 h from MC and SC test (WF1)

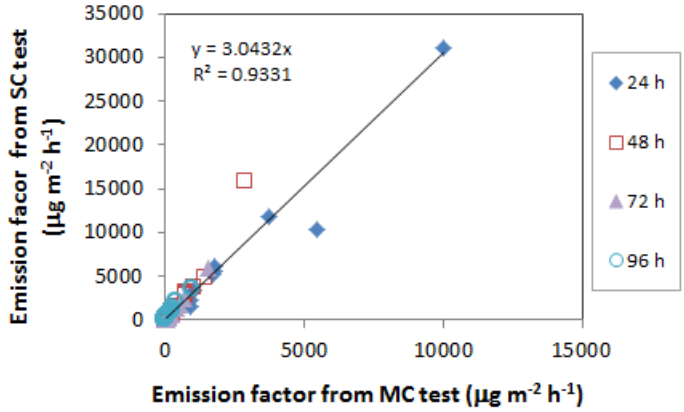


Figure 73: Emission factor at 24 – 96 h from MC and SC test (WS8)

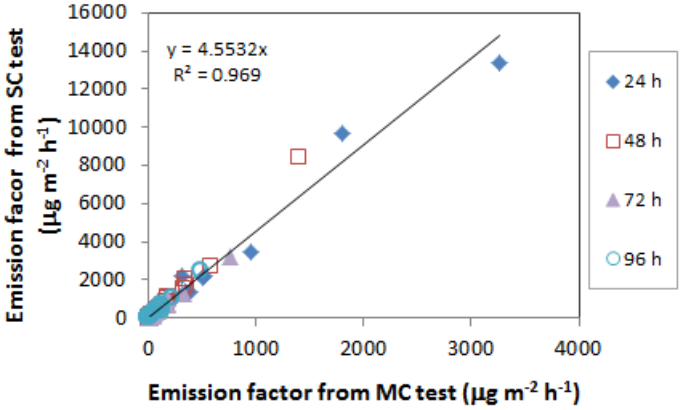


Figure 74: Emission factor at 24 – 96 h from MC and SC test (UR9)

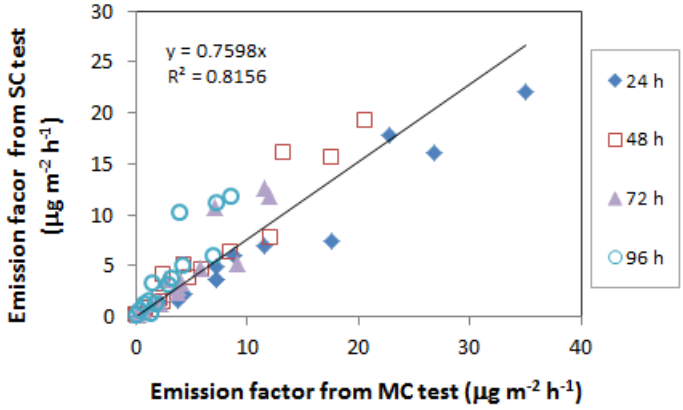


Figure 75: Emission factor at 24 – 96 h from MC and SC test (CAK32)

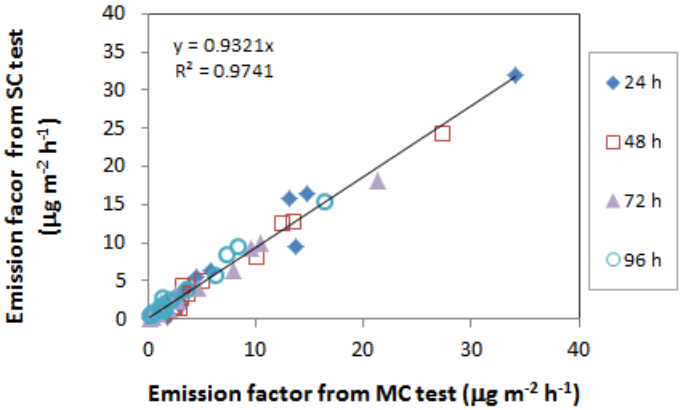


Figure 76: Emission factor at 24 – 96 h from MC and SC test (CAK34)

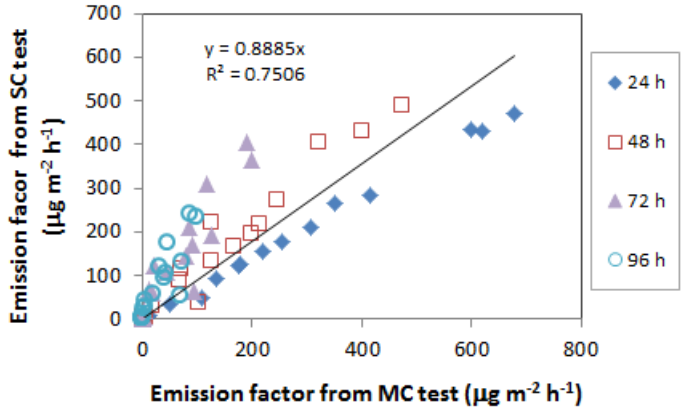


Figure 77: Emission factor at 24 – 96 h from MC and SC test (CAK35)

The second comparison was made for the emission factors measured at 1.5 h in micro-scale chambers and those measured at 96 h in small-scale chambers. This is to see whether the short-term data (1.5 h) from a fast-screening test using an MC can be used to predict the long-term data (96 h) in SC. For dry materials (Figure 78 to Figure 87), the linearity between two measurements was good with R^2 ranging from 0.7462 and 0.9985. The linearity coefficient varied from 0.0432 to 0.2347. All data sets from 10 dry materials are combined in Figure 88. The resulting linearity coefficient was 0.135, which was influenced by VF33 that had emission factors greater than others. For a lower range comparison, the plot was repeated for 9 materials without VF33 in Figure 89. The linearity (0.1411) was similar to that of the higher range.

The comparison of the emission factors at 96 h in SC and those at 1.5 h in MC was also made for wet materials (Figure 90 to Figure 101). The linearity between MC and SC data was not favorable for materials with an emission factor in a lower range (< 120 $\mu g\ m^{-2}\ h^{-1}$ for SC). They included PT9, PT11, ADH9 and ADH10. For the other wet materials with higher emission factors, the linearity between MC and SC data was good with R^2 from 0.8151 to 0.9916. The linearity coefficient was between 0.00176 and 0.2299. All data sets from the tests of 12 wet materials are combined in Figure 102. The resulting linearity coefficient was 0.0203, which was influenced by those of WF1, WS8 and UR9 that showed emission factors much greater than others. The linearity coefficient was lower than that from dry materials by a factor of 7. For the comparison in a lower range, the three materials with high emission factors were removed in Figure 103. The resulting linearity coefficient was 0.156, which was similar to that from dry materials. However, the R^2 value (0.5814) was not good for the lower range comparison of wet materials. This is likely due to the greater uncertainties associated with low concentrations.

A similar observation was made for the comparison of the emission factor measured at other times. For example, Figure 104 and Figure 105 compare the emission factors measured at 24 h in SC and those at 1.5 in MC. Good linearity was observed in Figure 104. For the lower range comparison in Figure 105, the R^2 value for 24-h data improved compared to that for 96-h data in Figure 103. This may also be attributed to the fact that the chamber concentrations were higher at 24 h than at 96 h, leading to smaller uncertainties with 24-h data sets.

Assuming the linearity coefficients are likely to be similar for similar materials, additional plots were made for 9 caulking specimens, involving the emission factor at 96 h or 24 h in SC and that at 1.5 h in MC. The resulting linearity coefficient for the comparison of the 96-h SC and 1.5-h MC data was 0.1982 with R^2 of 0.8607 (Figure 106). The R^2 value (0.9908) improved for the comparison of the 24-h SC and 1.5-h MC data in Figure 107. The linearity coefficient was 0.4827. This example may indicate that there could a linearity coefficient that can represent a group of materials reasonably well on average, although the possibility of obtaining a universal linearity coefficient that can cover every combination of materials and compounds might be slim. Further research is recommended to test the hypothesis with more diverse groups of materials.

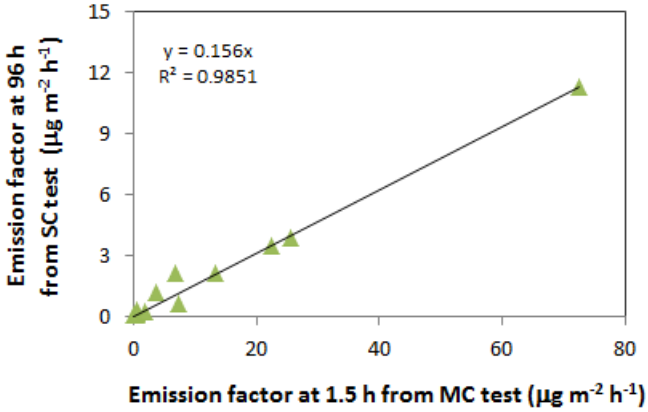


Figure 78: Emission factor at 1.5 h for MC and at 96 h for SC (SHV1)

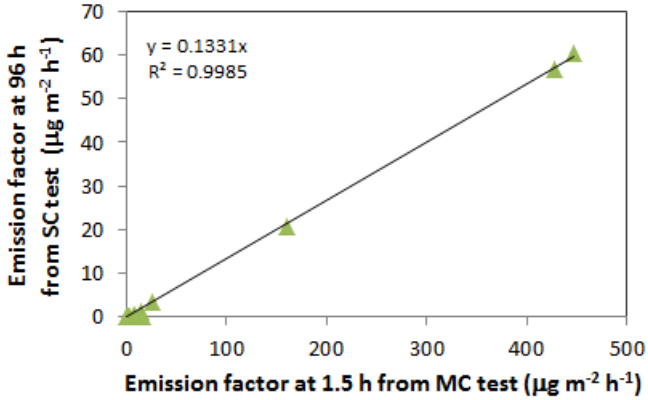


Figure 79: Emission factor at 1.5 h for MC and at 96 h for SC (CRP10)

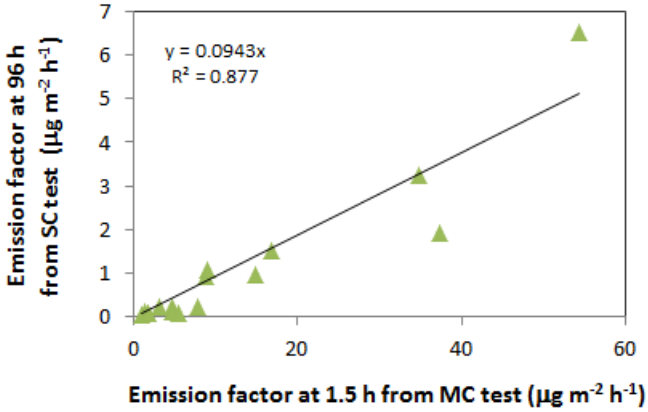


Figure 80: Emission factor at 1.5 h for MC and at 96 h for SC (CRP11)

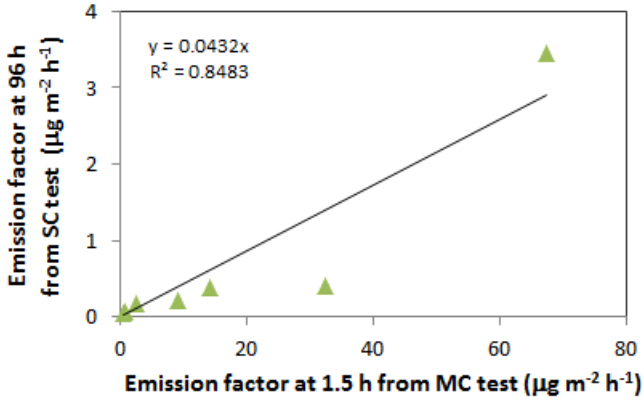


Figure 81: Emission factor at 1.5 h for MC and at 96 h for SC (COR1)

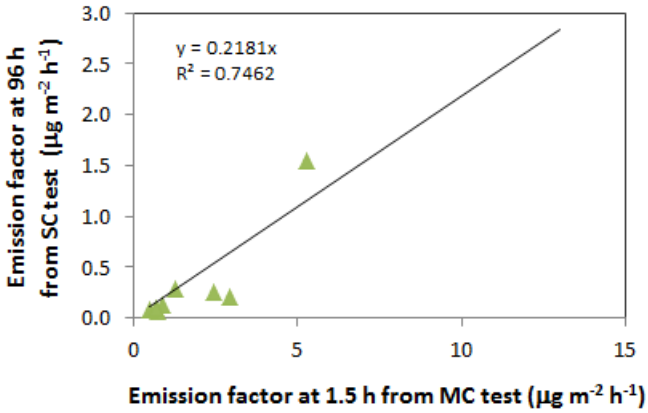


Figure 82: Emission factor at 1.5 h for MC and at 96 h for SC (EWF1)

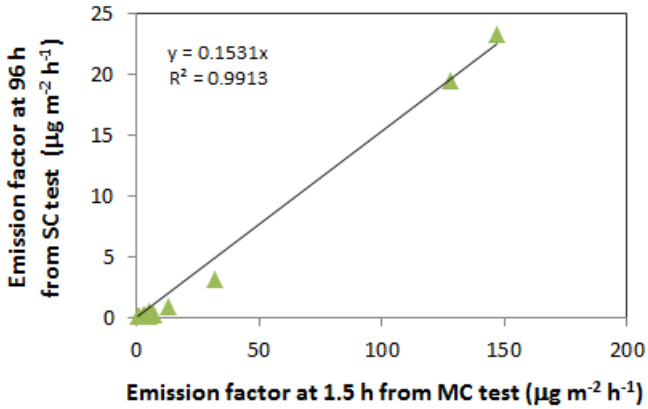


Figure 83: Emission factor at 1.5 h for MC and at 96 h for SC (BAM1)

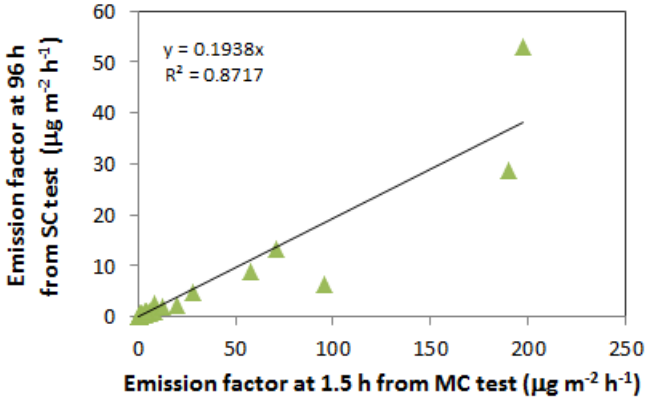


Figure 84: Emission factor at 1.5 h for MC and at 96 h for SC (VF32)

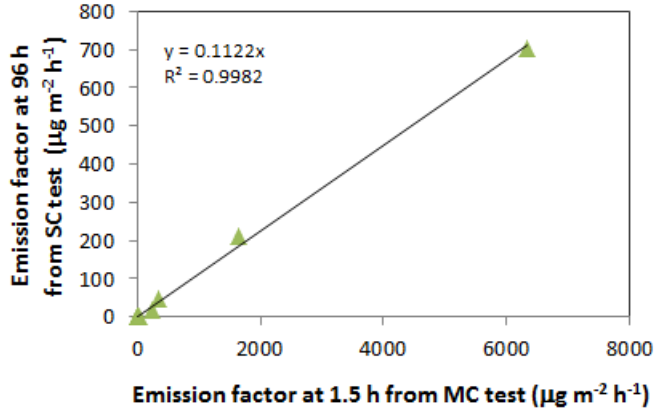


Figure 85: Emission factor at 1.5 h for MC and at 96 h for SC (VF33)

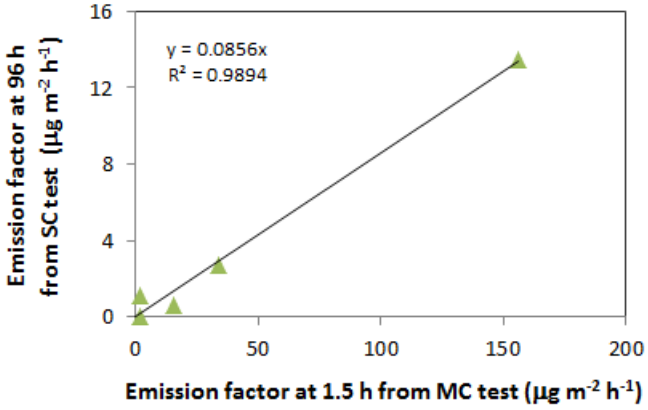


Figure 86: Emission factor at 1.5 h for MC and at 96 h for SC (INS2)

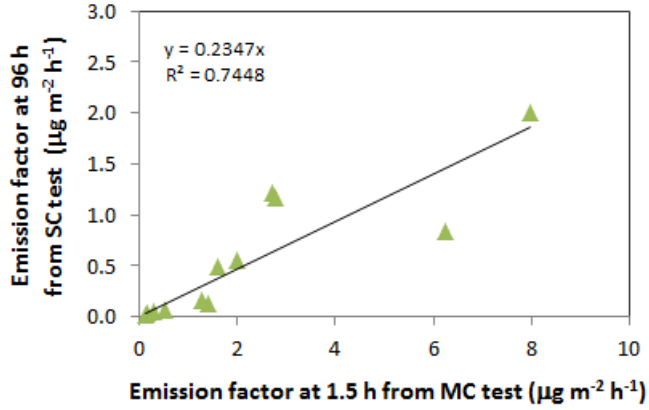


Figure 87: Emission factor at 1.5 h for MC and at 96 h for SC (SPR1)

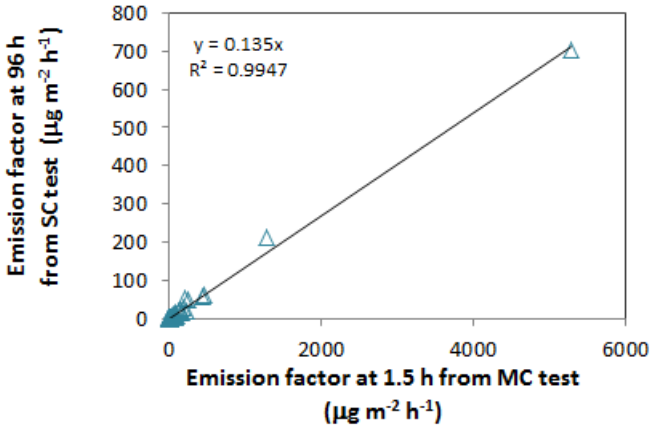


Figure 88: Emission factor at 1.5 h for MC and at 96 h for SC (10 dry materials)

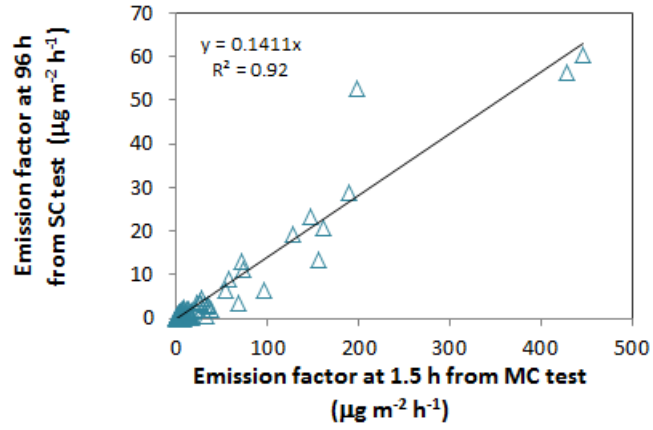


Figure 89: Emission factor at 1.5 h for MC and at 96 h for SC (9 dry materials without VF33)

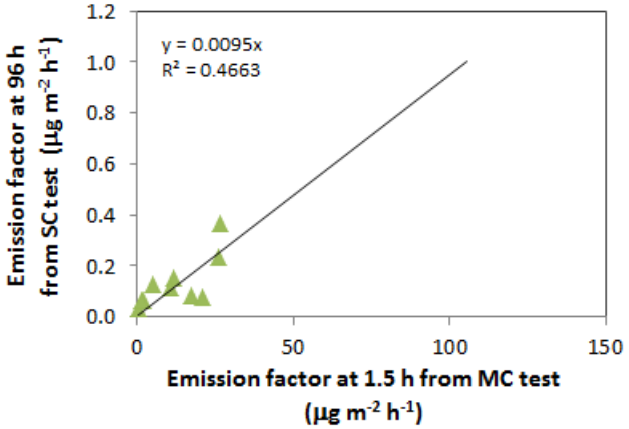


Figure 90: Emission factor at 1.5 h for MC and at 96 h for SC (PT9)

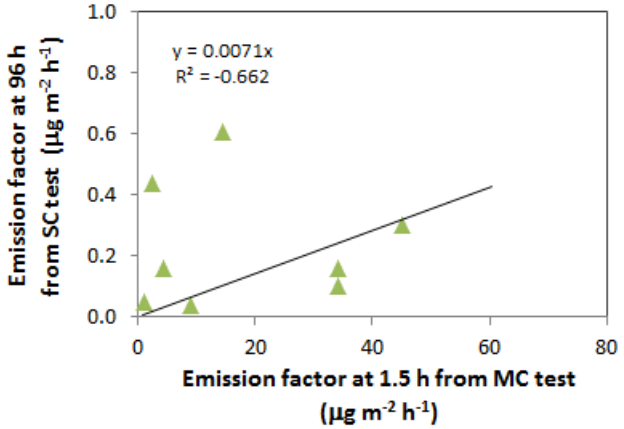


Figure 91: Emission factor at 1.5 h for MC and at 96 h for SC (PT11)

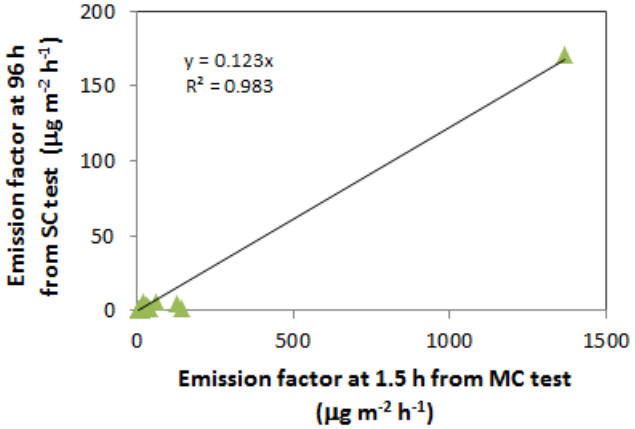


Figure 92: Emission factor at 1.5 h for MC and at 96 h for SC (ADH8a)

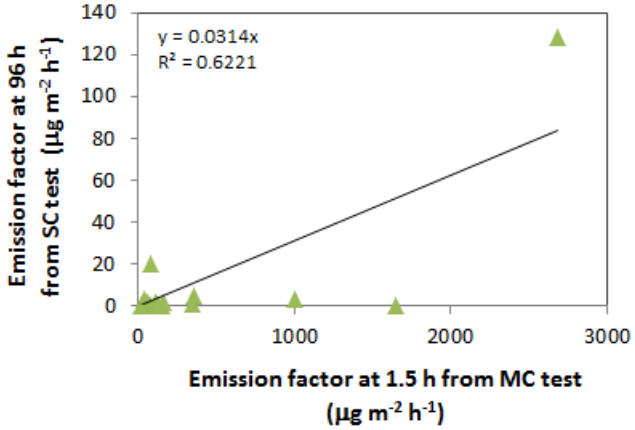


Figure 93: Emission factor at 1.5 h for MC and at 96 h for SC (ADH9)

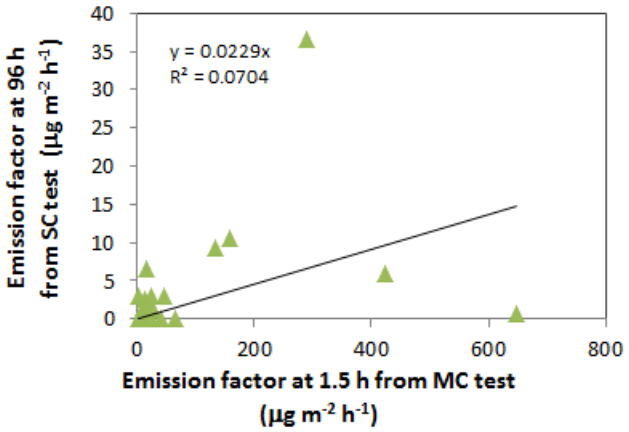


Figure 94: Emission factor at 1.5 h for MC and at 96 h for SC (ADH10)

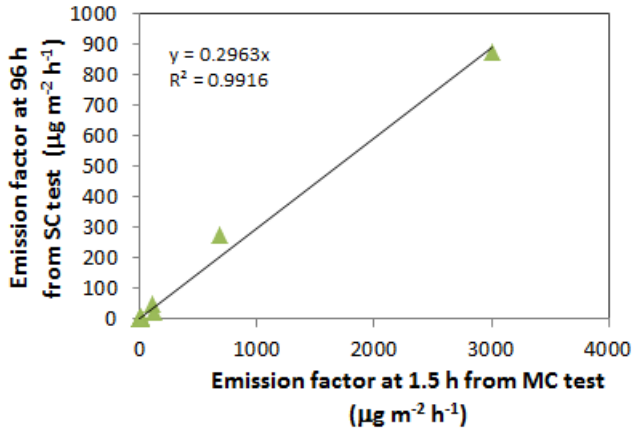


Figure 95: Emission factor at 1.5 h for MC and at 96 h for SC (VF33a)

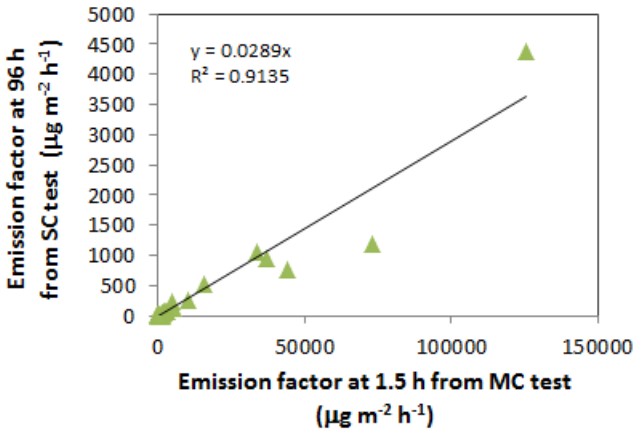


Figure 96: Emission factor at 1.5 h for MC and at 96 h for SC (WF1)

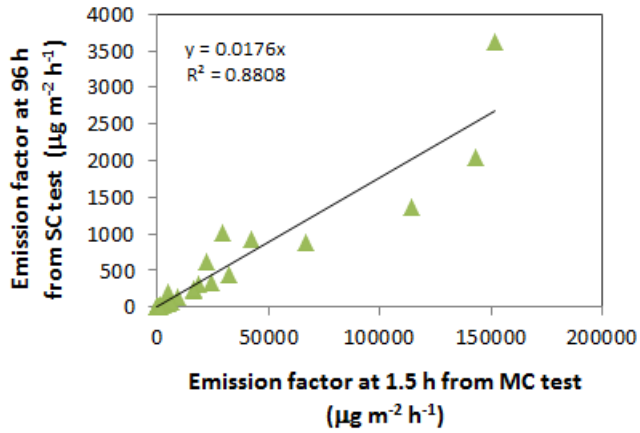


Figure 97: Emission factor at 1.5 h for MC and at 96 h for SC (WS8)

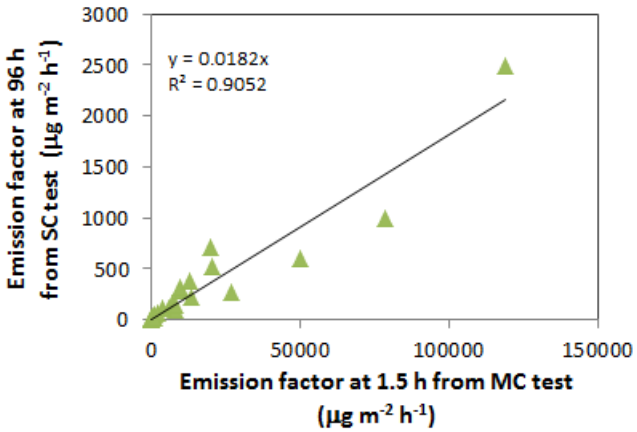


Figure 98: Emission factor at 1.5 h for MC and at 96 h for SC (UR9)

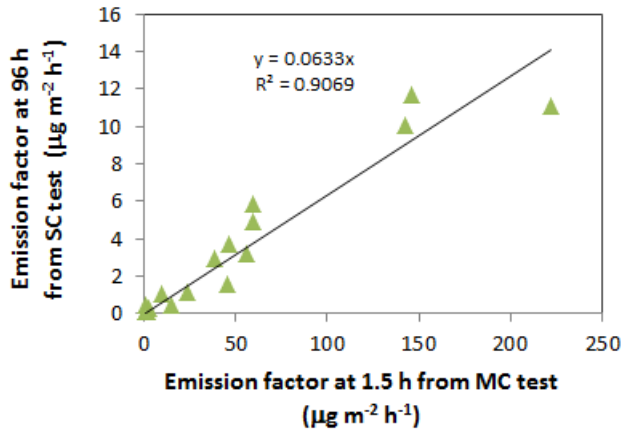


Figure 99: Emission factor at 1.5 h for MC and at 96 h for SC (CAK32)

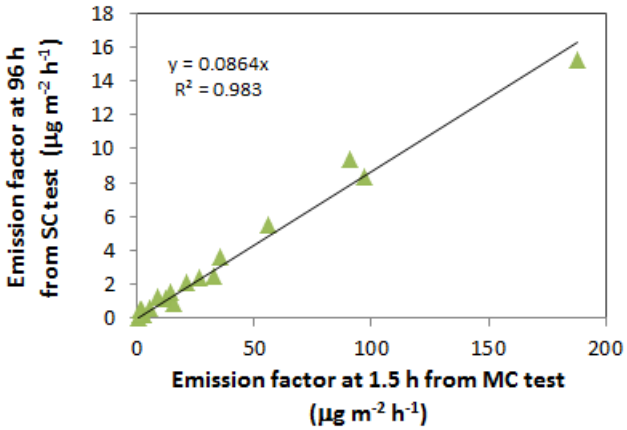


Figure 100: Emission factor at 1.5 h for MC and at 96 h for SC (CAK34)

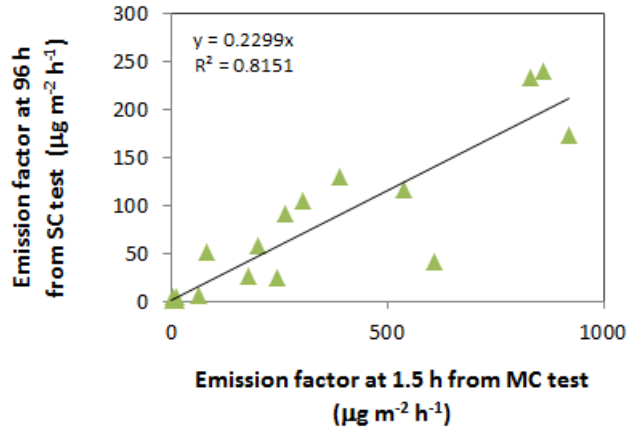


Figure 101: Emission factor at 1.5 h for MC and at 96 h for SC (CAK35)

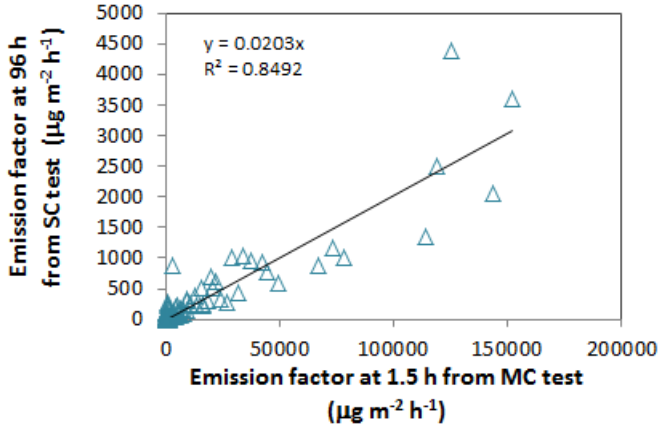


Figure 102: Emission factor at 1.5 h for MC and at 96 h for SC (12 wet materials)

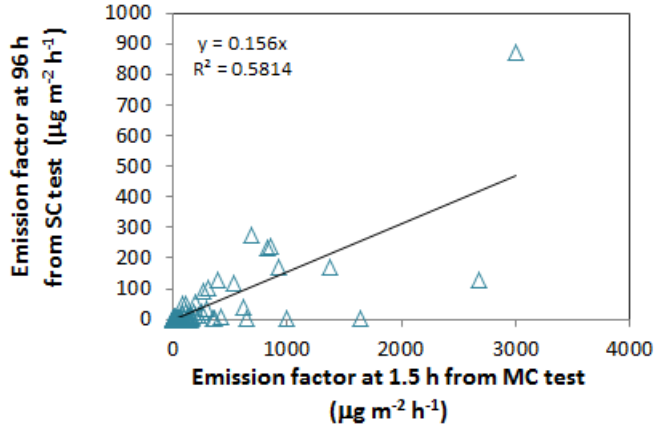


Figure 103: Emission factor at 1.5 h for MC and at 96 h for SC (9 wet materials without WF1, WS8 and UR9 for a lower range)

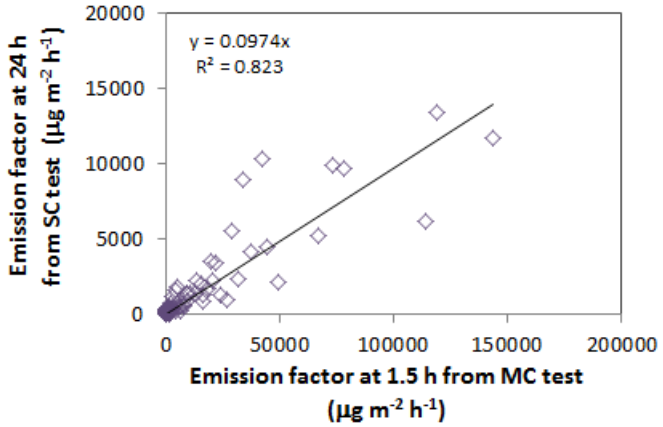


Figure 104: Emission factor at 1.5 h for MC and at 24 h for SC (12 wet materials)

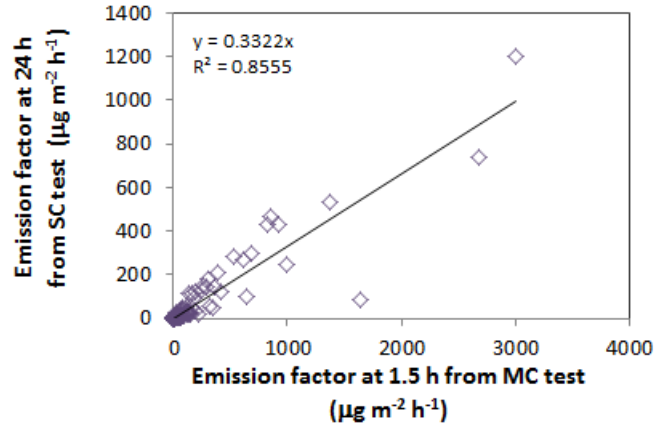


Figure 105: Emission factor at 1.5 h for MC and at 24 h for SC (9 wet materials without WF1, WS8 and UR9 for a lower range)

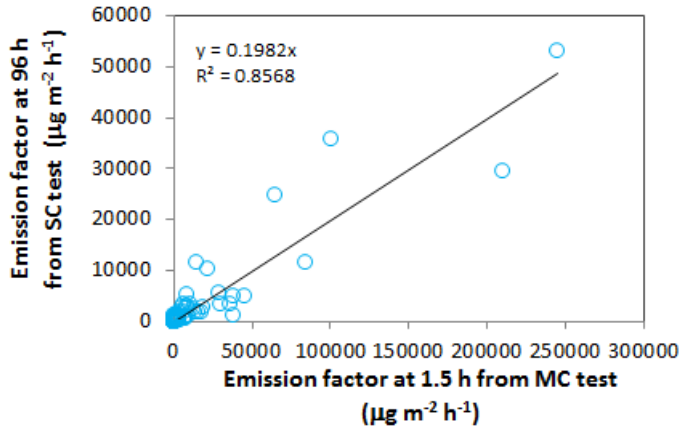


Figure 106: Emission factor at 1.5 h for MC and at 96 h for SC (9 caulking specimens of CAK1a, 2a, 5a, 13a, 16a, 24a, 31, 36 & 37)

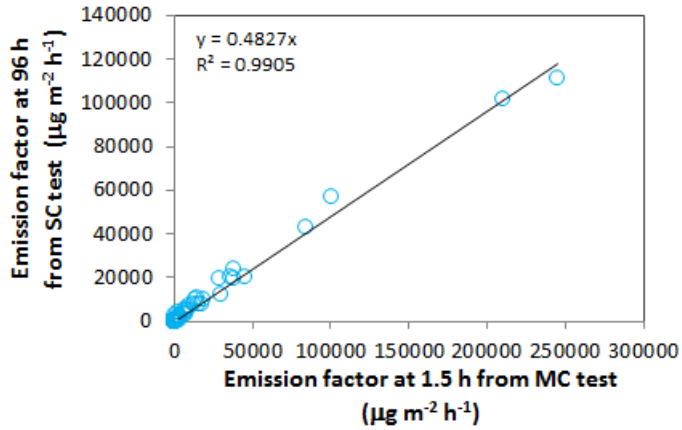


Figure 107: Emission factor at 1.5 h for MC and at 24 h for SC (9 caulking specimens of CAK1a, 2a, 5a, 13a, 16a, 24a, 31, 36 & 37)

4 Conclusions

Material emissions for 124 VOCs were measured using a 4-day test in small-scale (50 L) and micro-scale (44 mL) chambers from 52 building materials. Employing multiple sampling methods and optimizing the GC/MS operating conditions enabled the detection of very volatile organic compounds that are not feasible with typical sampling methods involving sorbent tubes such as Tenax TA. It was shown that acrolein emissions could be measured using PFPH-coated tube. However, considering the high blank and background acrolein levels observed in this study, caution is required in interpreting the measurements, in particular, at the levels close to the background values. Validation of the results with a sampling method, preferably without derivatization, is recommended.

Combined with the low operating temperature with GC/MS, the two layer sorbent tube of Tenax TA and Carbograph was shown to be successful in measuring ethylene oxide and propylene oxide, although two oxides were detected in only two or three materials. Although the same method was shown to be suitable for 1,3-butadiene sampling during the method development phase, 1,3-butadiene was detected in none of 52 materials tested. The frequent detection of trichloroethylene was attributed to the contamination of laboratory air.

The scenario analysis combined with the power-law decay emission models was shown to provide the information comparable to the indoor air measurements. The analysis for more diverse material usages is recommended for more representative information. The observations from both field sampling and chamber emissions studies verified the wide diversity in source strengths of individual organic compounds emitted by building materials.

The linearity between the micro-scale (MC) and small-scale (SC) test results measured from 24 h to 96 h were relatively good with R^2 ranging from 0.6094 to 0.9921 (0.85 on average). However, the magnitude the linearity was material-specific. This is also true for using the MC data obtained from a fast-screening test (emission factor at 1.5 h) to predict the long-term SC data (emission factor at 96 h). There was good linearity between two sets of values, in particular, for dry and caulking specimens. However, the linearity coefficient (ratio of emission factor from SC to emission factor from MC) varied depending on test materials, ranging from 0.0432 to 0.2347 for dry materials and from 0.00176 to 0.2299 for wet materials. Therefore, it was difficult to derive a universal linearity coefficient that can be applied to all compounds and materials tested in this study. Predicting the emission factors in a small-scale test based on those from a micro-scale test is not likely to be feasible if the material-specific linearity coefficient is not known.

5 References

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6 Acknowledgements

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Appendix

A.1 Test materials and products

Table A. 1: Detailed information of test materials and products

#	Group	Test ID	Product description	Date (purchased)	Date (tested)
1	Vinyl flooring	VF14a	Vinyl Plank (4 mm Thick)	26-Jul-12	13-Aug-12
2		VF31	Vinyl Tile (12"x 12", Self-stick)	7-Jul-12	9-Jul-12
3		VF32	Vinyl Sheet (3 mm Thick)	3-Aug-12	13-Aug-12
4		VF33	Vinyl Sheet (1.7 mm Thick)	3-Aug-12	13-Aug-12
5		VF33a	Flooring (Vinyl Sheet/Adhesive Assembly)	3-Aug-12	20-Aug-12
6		VF34	Vinyl Tile (12"x 12"; 2 mm; Self-stick)	26-Jul-12	13-Aug-12
7	Carpet	CRP10	Area Rug (Polypropylene; EcoLogo)	12-Jul-12	16-Jul-12
8		CRP11	Area Rug (Olefin)	12-Jul-12	16-Jul-12
9	Flooring -	LAM7	Flooring (Laminate; T&G)	7-Jul-12	9-Jul-12
10	other	LAM8	Flooring (Laminate; Bamboo; Underlayment attached)	26-Jul-12	30-Jul-12
11		COR1	Flooring (Cork)	26-Jul-12	30-Jul-12
12		EWF1	Engineered Hardwood Flooring (Pre-finished)	19-Jul-12	30-Jul-12
13		BAM1	Flooring (Solid bamboo)	26-Jul-12	30-Jul-12
14	Shelving	SHV1	Shelving (MDF; Pre-painted)	7-Jul-12	9-Jul-12
15		SHV2	Shelving (Plywood; Pre-painted; Low Formaldehyde)	7-Jul-12	9-Jul-12
16	Panel	MDF3	Panel (MDF; 1/2" x 24" x 48")	14-Jul-12	16-Jul-12
17		PB7	Panel (Particleboard; 1/2" x 24" x 48")	6-Dec-12	10-Dec-12
18		PIN2	Wood Panelling & Wainscoting (Pine; 5/16 x 3 & 9/16" x 32")	6-Dec-12	10-Dec-12
19	Structural	PLY4	Panel (Plywood; 1/2" x 24" x 48")	6-Dec-12	10-Dec-12
20		OSB8	Panel (OSB; 1/2" x 24" x 48")	14-Jul-12	16-Jul-12
21	Structural	SPR1	Subfloor (Basement; Spruce; 7/8" x 23.5" x 23.5")	6-Dec-12	10-Dec-12
22		IB1	I-beam (Pine block; 11 & 7/8" high)	29-Nov-12	3-Dec-12
23		IB2	I-beam (Laminate block; 9 & 1/2" high)	29-Nov-12	3-Dec-12
24	Ceiling	ACT5	Acoustical ceiling tile (2' x 2' x 3/4")	26-Nov-12	26-Nov-12
25	Insulation	INS2	Insulation (Board; EcoLogo)	26-Nov-12	26-Nov-12

Table A. 1 (continued)

#	Group	Test ID	Product description	Date (purchased)	Date (tested)
26	Paint	PT9	Paint (Interior; zero VOC; Acrylic)	19-Jul-12	23-Jul-12
27		PT10	Paint (Interior; Latex)	19-Jul-12	23-Jul-12
28		PT11	Paint (Interior; Low odour; Acrylic)	19-Jul-12	23-Jul-12
29		PT12	Paint (Interior; Low VOC; Acrylic Latex)	26-Jul-12	27-Aug-12
30	Wood finish	WF1	Wood Finish (Stain + Varnish; Interior; Oil-based)	4-Aug-12	3-Sep-12
31		WF2	Wood Finish (Stain + Varnish; Interior; Water-based)	26-Jul-12	27-Aug-12
32	Wood stain	WS8	Wood stain (Interior/Exterior; Oil-based)	19-Jul-12	3-Sep-12
33		WS9	Wood stain (Interior; Water-based)	4-Aug-12	27-Aug-12
34	Polyurethane	UR9	Polyurethane (Interior; Oil-based)	26-Jul-12	3-Sep-12
35		UR10	Polyurethane (Interior; Water-based)	26-Jul-12	27-Aug-12
36	Adhesives	ADH8a	Adhesive (Multi-purpose; Carpet & Sheet Vinyl; Zero VOC)	26-Jul-12	20-Aug-12
37		ADH9	Adhesive (Vinyl Composition Tile; Ultra Low VOCs)	19-Jul-12	23-Jul-12
38		ADH10	Adhesive (Multi-purpose)	26-Jul-12	20-Aug-12
39		ADH11	Adhesive (Wall covering; Water-based)	4-Aug-12	20-Aug-12
40	Caulking	CAK1a	Caulking (Acrylic Latex & Silicone; Window/Door)	26-Jul-12	5-Nov-12
41		CAK2a	Caulking (Silicone & Polyurethane; Window/Door) (CAK2)	4-Aug-12	5-Nov-12
42		CAK5a	Caulking (Silicone; Door/Window)	4-Aug-12	5-Nov-12
43		CAK13a	Caulking (Subfloor/Deck)	26-Jul-12	3-Sep-12
44		CAK16a	Caulking (Removable Caulk; Draft)	27-Aug-12	19-Nov-12
45		CAK24a	Caulking (Acoustical)	27-Aug-12	19-Nov-12
46		CAK31	Caulking (Subfloor/Deck; Green)	4-Aug-12	5-Nov-12
47		CAK36	Caulking (Interior; All Purpose; VOC < 0.5 %)	26-Jul-12	19-Nov-12
48		CAK37	Caulking (Construction; Premium)	4-Aug-12	19-Nov-12
49	Foam sealant	CAK32	Foam Sealant (Gaps & Cracks)	26-Jul-12	10-Sep-12
50		CAK33	Foam Sealant (Window & Door; Minimal Expansion)	16-Aug-12	10-Sep-12
51		CAK34	Foam Sealant (Air leaks/Openings, Triple)	6-Sep-12	10-Sep-12
52		CAK35	Foam Sealant (Multi-purpose; Latex-based)	16-Aug-12	10-Sep-12

Table A. 2: Test conditions for small-scale chambers

#		Test ID	Sample area (m^2)	Sample Thickness (m)	Sample Initial Mass (g)	Sample Loading Ratio (m^2 m^{-3})	Air change rate (h^{-1})	Sample substrate
1	Vinyl flooring	VF14a	0.02	0.0040	178.1	0.417	1	Stainless steel (ss) holder
2		VF31	0.02	0.0030	133.4	0.417	1	Stainless steel (ss) holder
3		VF32	0.02	0.0030	49.0	0.417	1	Stainless steel (ss) holder
4		VF33	0.02	0.0017	40.7	0.417	1	Stainless steel (ss) holder
5		VF33a	0.02	0.0020	86.1	0.417	1	Stainless steel plate (w/o ss holder)
6		VF34	0.02	0.0017	15.3	0.417	1	Stainless steel (ss) holder
7	Carpet	CRP10	0.02	0.0030	28.1	0.417	1	Stainless steel (ss) holder
8		CRP11	0.02	0.0070	39.8	0.417	1	Stainless steel (ss) holder
9	Flooring -	LAM7	0.02	0.0100	198.4	0.417	1	Stainless steel (ss) holder
10	other	LAM8	0.02	0.0096	161.9	0.417	1	Stainless steel (ss) holder
11		COR1	0.02	0.0103	179.1	0.417	1	Stainless steel (ss) holder
12		EWF1	0.02	0.0152	208.1	0.417	1	Stainless steel (ss) holder
13		BAM1	0.02	0.0159	249.7	0.417	1	Stainless steel (ss) holder
14	Shelving	SHV1	0.02	0.0159	250.5	0.417	1	Stainless steel (ss) holder
15		SHV2	0.02	0.0159	252.3	0.417	1	Stainless steel (ss) holder
16	Panel	MDF3	0.02	0.0127	230.0	0.417	1	Stainless steel (ss) holder
17		PB7	0.02	0.0127	181.4	0.417	1	Stainless steel (ss) holder
18		PIN2	0.02	0.0079	69.7	0.417	1	Stainless steel (ss) holder
19	Structural	PLY4	0.02	0.0127	136.7	0.417	1	Stainless steel (ss) holder
20		OSB8	0.02	0.0111	157.0	0.417	1	Stainless steel (ss) holder
21	Structural	SPR1	0.02	0.0222	229.2	0.417	1	Stainless steel (ss) holder
22		IB1	0.092	0.0159	412.3	1.914	1	No
23		IB2	0.069	0.0159	338.2	1.441	1	No
24	Ceiling	ACT5	0.02	0.0191	172.9	0.417	1	Stainless steel (ss) holder
25	Insulation	INS2	0.02	0.0191	7.1	0.417	1	Stainless steel (ss) holder

Table A. 2 (continued)

#		Test ID	Sample area (m^2)	Sample Thickness (m)	Sample Initial Mass (g)	Sample Loading Ratio (m^2 m^{-3})	Air change rate (h^{-1})	Sample substrate
26	Paint	PT9	0.02	0.0127	3.3	0.417	1	Gypsum board (unpolished ss holder)
27		PT10	0.02	0.0127	4.0	0.417	1	Gypsum board (unpolished ss holder)
28		PT11	0.02	0.0127	5.5	0.417	1	Gypsum board (unpolished ss holder)
29		PT12	0.02	0.0127	2.9	0.417	1	Gypsum board (unpolished ss holder)
30	Wood finish	WF1	0.02	0.0137	1.8	0.417	1	Maple
31		WF2	0.02	0.0127	4.1	0.417	1	Maple
32	Wood stain	WS8	0.02	0.0137	2.0	0.417	1	Maple
33		WS9	0.02	0.0127	2.3	0.417	1	Maple
34	Polyurethane	UR9	0.02	0.0137	2.8	0.417	1	Maple
35		UR10	0.02	0.0127	4.6	0.417	1	Maple
36	Adhesives	ADH8a	0.02	0.0007	13.0	0.417	1	SS plate (w/o ss holder)
37		ADH9	0.02	0.0007	7.7	0.417	1	SS plate (w/o ss holder)
38		ADH10	0.02	0.0007	12.5	0.417	1	SS plate (w/o ss holder)
39		ADH11	0.02	0.0007	15.8	0.417	1	SS plate (w/o ss holder)
40	Caulking	CAK1a	0.0016	0.0064	16.4	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
41		CAK2a	0.0016	0.0064	12.6	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
42		CAK5a	0.0016	0.0064	10.3	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
43		CAK13a	0.0016	0.0064	13.3	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
44		CAK16a	0.0016	0.0064	7.0	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
45		CAK24a	0.0016	0.0064	15.3	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
46		CAK31	0.0016	0.0064	13.4	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
47		CAK36	0.0016	0.0064	10.2	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
48		CAK37	0.0016	0.0064	13.4	0.034	1	Special holder for caulking (1/4 x 1/4 x 10")
49	Foam sealant	CAK32	0.0065	0.0254	4.9	0.134	1	Galvanized steel holder for spray foam (1 x 1 x 10")
50		CAK33	0.0065	0.0254	9.0	0.134	1	Galvanized steel holder for spray foam (1 x 1 x 10")
51		CAK34	0.0065	0.0254	6.5	0.134	1	Galvanized steel holder for spray foam (1 x 1 x 10")
52		CAK35	0.0065	0.0254	8.8	0.134	1	Galvanized steel holder for spray foam (1 x 1 x 10")

Table A. 3: Test conditions for micro-scale chambers

#		Test ID	Sample area (m^2)	Sample Thickness (m)	Sample Initial Mass (g)	Sample Loading Ratio (m^2 m^{-3})	Air change rate (h^{-1})	Sample substrate
1	Vinyl flooring	VF14a_m	0.0010	0.0040	11.7	164	474	No
2		VF31_m	0.0013	0.0030	8.8	400	986	No
3		VF32_m	0.0010	0.0030	2.6	179	521	No
4		VF33_m	0.0010	0.0017	3.3	200	588	No
5		VF33a_m	0.0011	0.0017	0.7	185	510	Glass disc (1/4” thickness)
6		VF34_m	0.0010	0.0020	5.7	213	649	No
7	Carpet	CRP10_m	0.0010	0.0030	1.7	400	1162	No
8		CRP11_m	0.0010	0.0070	2.6	400	1171	No
9	Flooring - other	LAM7_m	0.0013	0.0100	13.2	400	980	No
10		LAM8_m	0.0010	0.0096	9.9	145	435	No
11		COR1_m	0.0010	0.0103	10.8	162	463	No
12		EWF1_m	0.0010	0.0152	12.6	201	581	No
13		BAM1_m	0.0010	0.0159	14.5	231	657	No
14	Shelving	SHV1_m	0.0013	0.0159	16.3	400	996	No
15		SHV2_m	0.0013	0.0159	15.9	400	1032	No
16	Panel	MDF3_m	0.0010	0.0127	14.5	400	1217	No
17		PB7_m	0.001534	0.0127	11.5	263	534	No
18		PIN2_m	0.001534	0.0079	4.2	273	579	No
19	Structural	PLY4_m	0.001534	0.0127	7.8	263	538	No
20		OSB8_m	0.0010	0.0111	10.8	400	1151	No
21	Structural	SPR1_m	0.001534	0.0222	15.0	229	459	No
22		IB1_m	0.001534	0.0159	14.9	172	317	No
23		IB2_m	0.001534	0.0159	14.3	172	345	No
24	Ceiling Insulation	ACT5_m	0.001534	0.0191	11.2	132	258	No
25		INS2_m	0.001534	0.0191	0.4	132	252	No

Table A. 3 (continued)

#		Test ID	Sample area (m^2)	Sample Thickness (m)	Sample Initial Mass (g)	Sample Loading Ratio (m^2 m^{-3})	Air change rate (h^{-1})	Sample substrate
26	Paint	PT9_m	0.0010	0.0127	0.4	155	442	Gypsum board (1/2" thickness)
27		PT10_m	0.0010	0.0127	0.4	155	447	Gypsum board (1/2" thickness)
28		PT11_m	0.0010	0.0127	0.4	155	463	Gypsum board (1/2" thickness)
29		PT12_m	0.0015	0.0127	0.2	133	256	Gypsum board (1/2" thickness)
30	Wood finish	WF1_m	0.0015	0.0137	0.1	125	244	Maple
31		WF2_m	0.0015	0.0127	0.4	111	215	Maple
32	Wood stain	WS8_m	0.0015	0.0137	0.2	125	247	Maple
33		WS9_m	0.0015	0.0127	0.3	111	217	Maple
34	Polyurethane	UR9_m	0.0015	0.0137	0.2	125	255	Maple
35		UR10_m	0.0015	0.0127	0.2	111	224	Maple
36	Adhesives	ADH8a_m	0.0015	0.0064	0.7	192	374	Glass disc (1/4” thickness)
37		ADH9_m	0.0015	0.0064	0.5	192	371	Glass disc (1/4” thickness)
38		ADH10_m	0.0015	0.0064	0.8	192	378	Glass disc (1/4” thickness)
39		ADH11_m	0.0015	0.0064	0.8	192	391	Glass disc (1/4” thickness)
40	Caulking	CAK1a_m	0.0015	0.0064	1.3	192	371	Glass disc (1/4” thickness)
41		CAK2a_m	0.0015	0.0064	1.4	192	375	Glass disc (1/4” thickness)
42		CAK5a_m	0.0015	0.0064	0.8	192	388	Glass disc (1/4” thickness)
43		CAK13a_m	0.0015	0.0064	0.9	192	372	Glass disc (1/4” thickness)
44		CAK16a_m	0.0015	0.0064	0.9	192	375	Glass disc (1/4” thickness)
45		CAK24a_m	0.0015	0.0064	1.4	192	393	Glass disc (1/4” thickness)
46		CAK31_m	0.0015	0.0064	1.0	91	174	Glass disc (1/4” thickness)
47		CAK36_m	0.0015	0.0064	0.7	192	379	Glass disc (1/4” thickness)
48		CAK37_m	0.0015	0.0064	1.3	192	372	Glass disc (1/4” thickness)
49	Foam sealant	CAK32_m	0.0015	0.0200	0.9	91	176	Petri-dish
50		CAK33_m	0.0015	0.0200	1.1	91	178	Petri-dish
51		CAK34_m	0.0015	0.0200	1.1	91	184	Petri-dish
52		CAK35_m	0.0015	0.0200	1.4	91	175	Petri-dish

A.2 Chamber concentrations and emission factors for 52 materials tested in small-scale (50 L) chambers

Table A. 4: Small-scale chamber concentration and emission factor for VF14a (vinyl tile)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72.4 h	96 h	0 h	1.5 h	24 h	48 h	72.4 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		5.92	3.58	2.61	2.95	2.85		14.80	8.95	6.53	7.38	7.12	13.49	0.15	0.46
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	4.31	15.74	20.21	17.44	15.52	16.50		28.59	39.77	32.83	28.03	30.47	79.64	0.23	0.83
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.20						0.51							
6		108-95-2	Phenol		62.65	26.25	18.54	16.44	13.00		156.63	65.64	46.35	41.10	32.51	304.03	0.48	0.98
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		6.47	2.57	1.45	1.40	1.19		16.18	6.43	3.62	3.50	2.98	33.04	0.53	0.92
8		67-64-1	Acetone	0.45	8.74	2.19	0.92	1.84	1.24		20.73	4.36	1.18	3.48	1.97	10.66	0.37	0.15
9		98-86-2	Acetophenone	0.57	0.35	0.23	0.18	0.17	0.17									
10		108-94-1	Cyclohexanone		2.58	3.76	2.96	2.51	2.10		6.46	9.40	7.40	6.27	5.25	35.08	0.41	0.98
11		108-10-1	Methylisobutyl ketone		6.02	4.07	2.07	1.53	1.29		15.05	10.18	5.19	3.83	3.22	141.84	0.84	0.99
12		100-52-7	Benzaldehyde		0.56	0.46	0.35	0.31	0.28		1.41	1.15	0.88	0.77	0.69	3.63	0.36	1.00
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		4.62	2.11		1.17			11.55	5.27		2.92				
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.41						1.03							
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		0.83						2.08							
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.22	0.57	0.38	0.32	0.29		3.05	1.42	0.94	0.80	0.73	6.46	0.49	0.98
29		112-40-3	Dodecane		0.25	0.35	0.29	0.29	0.24		0.62	0.87	0.73	0.73	0.60	1.86	0.24	0.87
30		142-82-5	Heptane		0.72						1.79							
31		544-76-3	Hexadecane		0.25	0.09					0.64	0.23						
32		110-54-3	Hexane		0.66						1.66							
33		111-84-2	Nonane		0.36			0.06			0.89			0.16				
34		111-65-9	Octane		0.13						0.33							
35		629-62-9	Pentadecane		0.47		0.08				1.18		0.20					
36		629-59-4	Tetradecane		1.63	0.31	0.17	0.22	0.16		4.07	0.77	0.42	0.56	0.40	2.46	0.39	0.61
37		629-50-5	Tridecane		0.16	0.12	0.14	0.12	0.11		0.39	0.30	0.36	0.31	0.27	0.39	0.06	0.10
38		1120-21-4	Undecane		0.44	0.41	0.32	0.31	0.27		1.10	1.02	0.80	0.77	0.68	2.43	0.28	0.96
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.09	0.05	0.03	0.02	0.01		0.22	0.13	0.08	0.05	0.03	4.33	1.06	0.95
41		620-14-4	Toluene, 3-ethyl-		0.14	0.10	0.08	0.03			0.36	0.26	0.21	0.08		6.08	0.96	0.78
42		622-96-8	Toluene, 4-ethyl-		0.09	0.07	0.05	0.01			0.22	0.18	0.12	0.03		19.92	1.43	0.84
43		31017-40-0	Cyclohexene, 4-phenyl		0.08	0.08	0.06	0.06	0.05		0.20	0.20	0.16	0.15	0.13	0.46	0.27	0.97
44		71-43-2	Benzene		0.31						0.77							
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.11	0.03	0.03				0.27	0.08	0.07					
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.35	0.19	0.12	0.06	0.04		0.87	0.48	0.30	0.14	0.11	18.17	1.11	0.95
47		95-47-6	Benzene, 1,2-dimethyl-		0.26	0.06	0.98	0.23	0.12		0.66	0.16	2.45	0.57	0.30			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.14	0.08	0.04	0.03			0.34	0.19	0.11	0.08		2.48	0.80	1.00
49		108-38-3	Benzene, 1,3-dimethyl-		0.90	0.16	4.32	0.71	0.34		2.24	0.39	10.79	1.78	0.85			
50		98-82-8	Benzene, isopropyl		0.09	0.06	0.06				0.24	0.15	0.14					
51		103-65-1	Benzene, propyl-		0.08	0.05					0.20	0.12						
52		100-41-4	Ethylbenzene		0.32	0.12	1.11	0.24	0.13		0.79	0.29	2.78	0.60	0.33			
53		91-20-3	Naphthalene	0.50	0.78	0.79	0.54	0.54	0.42		0.69	0.73	0.10	0.10		306.28	1.96	0.87
54		99-87-6	p-Cymene		0.06						0.14							
55		100-42-5	Styrene	0.06	0.12	0.08	0.07		0.05		0.14	0.03	0.00					
56		108-88-3	Toluene		64.72	36.17	23.28	17.21	14.64		161.80	90.43	58.20	43.02	36.61	738.56	0.66	1.00
57		98-83-9	2-Phenylpropene		0.12	0.19	0.13	0.12	0.10		0.30	0.47	0.31	0.30	0.25	1.76	0.43	0.95
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.23	0.14		0.12			0.57	0.35		0.30				
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol		1.98	1.48	1.30		0.95		4.96	3.71	3.25		2.38	10.56	0.32	0.95
67		6846-50-0	TXIB	1.81	3.91	3.72	2.76	3.01	2.77		5.27	4.79	2.38	3.01	2.41	17.33	0.44	0.65

Table A. 4 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72.4 h	96 h	0 h	1.5 h	24 h	48 h	72.4 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-		6.58	6.52	4.45	4.55	3.90		16.45	16.30	11.13	11.38	9.76	46.79	0.34	0.89
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane		0.06						0.16							
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride	0.25	0.26						0.02							
85		67-66-3	Chloroform		1.06						2.66							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.44						1.10							
89		79-01-6	Trichloroethylene	1.51	117.50	2.98	1.71	1.76	1.26		289.97	3.67	0.50	0.62		759.88	1.75	0.79
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.26						0.65							
92		110-82-7	Cyclohexane		0.16						0.39							
93		1678-93-9	Cyclohexane, butyl-		0.13						0.33							
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-		0.16						0.40							
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.53	0.08	0.05	0.05			1.32	0.20	0.12	0.12		0.91	0.49	0.77
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.13						0.33							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.49						1.23							
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.5 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.5 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	6.0	6.1	4.7	3.8	2.6	2.8		0.2							
122		50-00-0	Formaldehyde	14.0	4.3	1.9	2.4	8.1	6.7									
123		123-38-6	Propanal	0.8	0.0	0.0	0.0	0.0	0.0									
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.5 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.5 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	0.2	0.1	0.3	0.1	0.1		0.3	0.0	0.5		0.1	0.28	0.26	0.10

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 5: Small-scale chamber concentration and emission factor for VF31 (vinyl tile)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.7 h	24 h	47.8 h	71.8 h	95.8 h	0 h	1.7 h	24 h	47.8 h	71.8 h	95.8 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		1.46			0.69	0.81		3.65			1.74	2.03			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	0.79	2.34	2.33	1.97	3.55	3.44		3.88	3.84	2.95	6.89	6.61			
4		67-63-0	2-Propanol		0.47						1.18							
5		64-17-5	Ethanol		0.59						1.49							
6		108-95-2	Phenol															
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.70		0.47	0.69	0.56		1.76		1.18	1.72	1.39			
8		67-64-1	Acetone	0.31	7.77		1.31	1.81	0.45		18.65		2.49	3.74	0.36	72375.35	2.55	0.50
9		98-86-2	Acetophenone															
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone			1.03						2.57						
12		100-52-7	Benzaldehyde															
13		123-72-8	Butanal					0.61	0.37					1.52	0.93			
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal															
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.46	0.12					1.15	0.30						
29		112-40-3	Dodecane															
30		142-82-5	Heptane		0.42						1.06							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.26						0.64							
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane		0.17						0.42							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.05						0.13							
41		620-14-4	Toluene, 3-ethyl-		0.09	0.05					0.23	0.14						
42		622-96-8	Toluene, 4-ethyl-		0.07	0.22					0.18	0.55						
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.05						0.13							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.17						0.42							
47		95-47-6	Benzene, 1,2-dimethyl-		0.20			0.07	0.05		0.49			0.17	0.12			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.08						0.19							
49		108-38-3	Benzene, 1,3-dimethyl-		0.75		0.22	0.25	0.16		1.88		0.56	0.63	0.40	3.20	0.43	0.42
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.21	1.57	0.09	0.09	0.06		0.52	3.92	0.24	0.23	0.15	3920.50	2.30	0.85
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene															
55		100-42-5	Styrene						0.04						0.09			
56		108-88-3	Toluene	0.11	5.56		3.39	3.85	2.15		13.62		8.21	9.36	5.10	100.67	0.62	0.46
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester			0.68						1.71						
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.61		2.24	0.07	0.08		1.53		5.61	0.18	0.19	1.38E+09	5.10	0.82

Table A. 5 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24 h	47.8 h	71.8 h	95.8 h	0 h	1.7 h	24 h	47.8 h	71.8 h	95.8 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane			1.06						2.66						
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		0.54						1.36							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	1.68	98.43		2.56	3.49	1.80		241.88		2.20	4.51	0.30	74401.38	2.56	0.41
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.40						0.99							
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		1.70						4.24							
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	3 h	25.1 h	49.1 h	73.4 h	97 h	0 h	3 h	25.1 h	49.1 h	73.4 h	97 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	6.9	11.3	12.2	8.5	9.9	10.0		11.2	13.4	4.0	7.6	7.8	14.27	0.17	0.25
122		50-00-0	Formaldehyde	4.3	5.3	8.0	3.9	4.0	3.6		2.4	9.3						
123		123-38-6	Propanal	0.0	0.9	1.2	1.0	1.0	0.9		2.4	3.0	2.4	2.5	2.2	2.57	0.01	0.01
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25.4 h	49.1 h	73.4 h	97 h	0 h		25.4 h	49.1 h	73.4 h	97 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.1		1.4	1.2	0.4	0.5			0.6	0.1					

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 6: Small-scale chamber concentration and emission factor for VF32 (vinyl sheet; 3 mm thick)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		8.75	5.82	2.81	3.04	2.63		21.87	14.55	7.03	7.59	6.58	74.45	0.55	0.81
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		61.91	75.18	47.91	50.96	45.84		154.76	187.95	119.78	127.40	114.61	513.62	0.34	0.80
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.31						0.77							
6		108-95-2	Phenol		86.94	33.46	16.70	13.77	13.55		217.35	83.65	41.75	34.42	33.87	662.84	0.68	0.92
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.24	0.07			0.05		0.60	0.19			0.12			
8		67-64-1	Acetone		3.86	0.76	0.38	0.65	0.67		9.65	1.90	0.94	1.63	1.67	1.79	0.05	0.01
9		98-86-2	Acetophenone		0.89	0.87	0.69	0.58	0.66		2.22	2.19	1.73	1.44	1.66	4.61	0.25	0.72
10		108-94-1	Cyclohexanone		2.54	2.23	1.04	1.39	1.13		6.36	5.57	2.60	3.47	2.82	19.21	0.43	0.58
11		108-10-1	Methylisobutyl ketone		0.73	0.71	0.37	0.40	0.38		1.83	1.77	0.93	1.00	0.96	6.32	0.44	0.73
12		100-52-7	Benzaldehyde		4.39	2.30	1.55	1.34	1.33		10.97	5.74	3.88	3.34	3.32	20.52	0.41	0.94
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural						0.16						0.40			
17		111-71-7	Heptanal			0.59	0.39	0.30				1.48	0.98	0.76		10.21	0.61	1.00
18		66-25-1	Hexanal		16.46	15.08	6.77	8.34	7.17		41.15	37.71	16.92	20.86	17.92	159.43	0.50	0.66
19		124-19-6	Nonanal		3.26	3.30		2.16	2.94		8.15	8.25		5.40	7.34	13.47	0.17	0.31
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		0.82						2.06							
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.36	0.25	0.26		0.19		0.91	0.63	0.64		0.48	1.28	0.21	0.71
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.39						0.98							
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.60	0.65	0.45	0.43	0.37		4.00	1.63	1.13	1.07	0.92	5.64	0.40	0.96
29		112-40-3	Dodecane		7.28	8.30	5.87	6.07	5.30		18.20	20.76	14.67	15.18	13.25	51.91	0.30	0.87
30		142-82-5	Heptane		0.31						0.78							
31		544-76-3	Hexadecane		1.54	0.46	0.29	0.28	0.46		3.84	1.15	0.73	0.69	1.16	1.32	0.09	0.04
32		110-54-3	Hexane		0.30						0.76							
33		111-84-2	Nonane		0.33	0.11			0.07		0.83	0.27			0.17			
34		111-65-9	Octane															
35		629-62-9	Pentadecane		31.79	5.49	3.64	3.32	3.57		79.47	13.73	9.10	8.30	8.94	37.44	0.34	0.79
36		629-59-4	Tetradecane		362.76	39.17	23.47	19.49	21.17		906.89	97.93	58.67	48.73	52.91	424.18	0.48	0.86
37		629-50-5	Tridecane		34.80	16.52	12.74	12.44	11.52		86.99	41.30	31.84	31.11	28.79	89.69	0.25	0.94
38		1120-21-4	Undecane		1.45	0.75	0.57	0.51	0.43		3.62	1.87	1.43	1.27	1.07	6.43	0.39	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.05	0.04	0.04	0.03	0.03		0.12	0.11	0.09	0.08	0.07	0.27	0.28	0.97
40		611-14-3	Toluene, 2-ethyl-		0.12	0.07	0.06	0.07	0.05		0.31	0.19	0.15	0.17	0.11	0.47	0.28	0.67
41		620-14-4	Toluene, 3-ethyl-		0.23	0.15	0.12	0.10	0.08		0.58	0.37	0.31	0.25	0.20	1.56	0.44	0.94
42		622-96-8	Toluene, 4-ethyl-		0.13	0.11	0.08	0.07	0.05		0.34	0.27	0.20	0.17	0.14	1.32	0.49	0.99
43		31017-40-0	Cyclohexene, 4-phenyl		0.89	0.49	0.35	0.34	0.32		2.22	1.22	0.87	0.86	0.80	3.03	0.30	0.91
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.21	0.12	0.09	0.09	0.07		0.51	0.31	0.23	0.22	0.17	1.03	0.38	0.92
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.61	0.35	0.27	0.24	0.19		1.52	0.88	0.68	0.60	0.47	3.43	0.42	0.97
47		95-47-6	Benzene, 1,2-dimethyl-		0.29	0.16	1.13	0.48	0.27		0.72	0.39	2.81	1.20	0.67			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.19	0.11	0.09	0.07	0.07		0.48	0.27	0.22	0.19	0.18	0.77	0.33	0.99
49		108-38-3	Benzene, 1,3-dimethyl-		1.27	0.83	5.57	1.91	1.02		3.17	2.09	13.92	4.78	2.54			
50		98-82-8	Benzene, isopropyl		0.11			0.11			0.28			0.28				
51		103-65-1	Benzene, propyl-		0.21	0.12	0.08	0.08	0.06		0.53	0.29	0.20	0.21	0.16	1.01	0.40	0.84
52		100-41-4	Ethylbenzene		0.32	0.17	1.46	0.45	0.23		0.80	0.44	3.66	1.13	0.57			
53		91-20-3	Naphthalene		0.51	0.53	0.40	0.40	0.34		1.28	1.32	1.00	1.00	0.85	3.28	0.29	0.93
54		99-87-6	p-Cymene		0.29	0.24	0.21	0.16	0.17		0.73	0.61	0.51	0.39	0.41	1.67	0.32	0.89
55		100-42-5	Styrene		0.89	0.87	0.61	0.62	0.40		2.23	2.18	1.52	1.54	1.00	10.52	0.49	0.85
56		108-88-3	Toluene		3.77	1.23	6.20	1.24	0.76		9.43	3.07	15.50	3.09	1.89	21.10	0.41	0.07
57		98-83-9	2-Phenylpropene		0.32	0.27	0.27	0.19	0.21		0.81	0.66	0.68	0.48	0.52	1.41	0.22	0.61
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.55	0.53	0.23	0.21	0.36		1.38	1.32	0.58	0.53	0.89	3.67	0.39	0.31
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone		1.24	1.58					3.09	3.94						
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		32.08	26.44	28.58	9.41	9.95		80.21	66.10	71.46	23.52	24.87	1104.5	0.83	0.68

Table A. 6 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et		1.36	1.48	0.78	0.83	0.71		3.41	3.70	1.94	2.08	1.79	16.54	0.50	0.82
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene		0.09						0.22							
83		75-27-4	Bromodichloromethane		0.08						0.19							
84		56-23-5	Carbon tetrachloride		0.16						0.40							
85		67-66-3	Chloroform		0.54	0.05					1.36	0.12						
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		7.12	7.50	4.09	3.61	2.61		17.79	18.75	10.21	9.04	6.53	182.67	0.72	0.97
89		79-01-6	Trichloroethylene		64.12	5.19	1.51	1.64	1.66		160.30	12.97	3.79	4.09	4.15	145.32	0.83	0.72
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane		0.09						0.22							
93		1678-93-9	Cyclohexane, butyl-			0.23	0.17	0.15	0.16			0.57	0.42	0.38	0.41	1.28	0.27	0.81
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.43	1.29	0.80	0.96	0.85		3.57	3.22	1.99	2.41	2.13	6.75	0.26	0.54
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.31	0.27	0.15	0.18	0.17		0.78	0.67	0.37	0.45	0.43	1.59	0.31	0.52
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		2.97	3.37	1.89	2.26	1.89		7.41	8.42	4.74	5.64	4.73	25.19	0.37	0.68
102		79-92-5	Camphene		0.17						0.43							
103		5989-27-5	Limonene		0.81	0.51	0.41	0.42	0.43		2.02	1.27	1.03	1.04	1.06	1.85	0.13	0.65
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.60	1.38	0.81	0.61	0.68		1.50	3.46	2.03	1.52	1.70	19.69	0.57	0.88
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether			0.21	0.10		0.10			0.54	0.26		0.25	2.76	0.55	0.78
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.6 h	25.2 h	49.3 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.6 h	25.2 h	49.3 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	4.7	5.1	2.6	3.3	2.6	2.4		1.0							
122		50-00-0	Formaldehyde	4.9	1.7	0.9	0.5	0.7	0.6									
123		123-38-6	Propanal	0.7	0.0	0.0	0.0	0.0	0.0									
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.6 h	25.2 h	49.3 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.6 h	25.2 h	49.3 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	2.2	0.4	0.3	0.5	0.6	0.4									

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 7: Small-scale chamber concentration and emission factor for VF33 (vinyl sheet; 1.7 mm thick)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		5.91	3.15	1.97	1.96	1.65		14.78	7.87	4.93	4.89	4.13	30.55	0.44	0.92
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	1.02	3.26	2.50	2.46	2.14	2.16		5.61	3.71	3.61	2.82	2.87	7.62	0.22	0.78
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.32						0.80							
6		108-95-2	Phenol	1.37	476.98	431.89	335.70	292.14	227.88		1189.01	1076.29	835.82	726.93	566.27	4425.65	0.44	0.96
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.39						0.97							
8		67-64-1	Acetone	0.47	6.64	0.90	0.27	0.42	0.37		15.42	1.09						
9		98-86-2	Acetophenone	0.86														
10		108-94-1	Cyclohexanone		0.34						0.86							
11		108-10-1	Methylisobutyl ketone		0.18						0.46							
12		100-52-7	Benzaldehyde	0.94	5.56	6.22	4.91	4.46	6.27		11.54	13.20	9.92	8.81	13.32	15.41	0.08	0.06
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal	0.35														
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		3.17						7.92							
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal	0.40														
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.35						0.87							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.80						2.00							
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.79	0.27	0.20	0.22	0.22		1.97	0.67	0.50	0.54	0.55	0.97	0.14	0.46
29		112-40-3	Dodecane		0.27	0.17	0.18	0.20	0.12		0.66	0.43	0.44	0.49	0.30	0.75	0.15	0.20
30		142-82-5	Heptane		0.73						1.82							
31		544-76-3	Hexadecane		20.36	21.41	20.16	20.31	18.63		50.90	53.52	50.40	50.78	46.56	70.49	0.09	0.79
32		110-54-3	Hexane		0.66						1.64							
33		111-84-2	Nonane		0.38	0.10	0.10	0.07			0.94	0.26	0.26	0.19		0.67	0.28	0.61
34		111-65-9	Octane		0.13						0.33							
35		629-62-9	Pentadecane		113.89	104.02	97.08	93.71	84.43		284.72	260.05	242.71	234.27	211.08	406.84	0.14	0.89
36		629-59-4	Tetradecane		371.84	331.63	312.00	295.25	281.26		929.61	829.06	780.00	738.12	703.16	1210.45	0.12	0.98
37		629-50-5	Tridecane		9.51	9.17	8.46	8.28	7.69		23.76	22.92	21.16	20.71	19.23	33.33	0.12	0.95
38		1120-21-4	Undecane		0.46	0.28	0.25	0.23	0.21		1.15	0.71	0.63	0.57	0.53	1.39	0.21	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.02						0.05							
40		611-14-3	Toluene, 2-ethyl-		0.09	0.03	0.05	0.02	0.02		0.23	0.07	0.12	0.05	0.04	0.35	0.42	0.32
41		620-14-4	Toluene, 3-ethyl-		0.18	0.05	0.12	0.05			0.44	0.13	0.30	0.13				
42		622-96-8	Toluene, 4-ethyl-		0.11	0.05	0.06	0.02			0.28	0.12	0.15	0.06		0.61	0.47	0.34
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene		0.27	0.07		0.07			0.68	0.17		0.17				
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.13	0.04					0.34	0.10						
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.43	0.13	0.23	0.11	0.09		1.07	0.32	0.56	0.28	0.23	0.96	0.27	0.18
47		95-47-6	Benzene, 1,2-dimethyl-		0.28	0.04	1.99	0.26	0.17		0.69	0.09	4.96	0.65	0.42			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.14	0.04	0.07	0.03			0.35	0.10	0.18	0.09				
49		108-38-3	Benzene, 1,3-dimethyl-		0.96	0.12	8.49	0.96	0.52		2.40	0.30	21.22	2.40	1.31			
50		98-82-8	Benzene, isopropyl		0.08		0.04				0.20		0.10					
51		103-65-1	Benzene, propyl-		0.12	0.08	0.08	0.05	0.04		0.30	0.19	0.21	0.13	0.11	0.82	0.42	0.68
52		100-41-4	Ethylbenzene		0.32	0.07	1.97	0.26	0.17		0.79	0.18	4.93	0.64	0.43			
53		91-20-3	Naphthalene	0.04	0.21	0.11	0.08	0.08	0.07		0.43	0.19	0.10	0.12	0.09	0.91	0.51	0.81
54		99-87-6	p-Cymene		0.06						0.16							
55		100-42-5	Styrene	0.13	0.18	0.12	0.06	0.06	0.09		0.12							
56		108-88-3	Toluene	0.24	5.59	0.72	4.61	0.79	0.66		13.38	1.21	10.92	1.36	1.04	5.73	0.26	0.02
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.13						0.32							
62		141-78-6	Acetic acid, ethyl ester		0.19						0.46							
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB	129.20	46.77	189.95	161.62	143.89	112.15			151.87	81.05	36.72		8620.76	1.25	0.95

Table A. 7 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-	0.93														
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane		0.06						0.15							
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.12						0.30							
82		106-46-7	1,4-Dichlorobenzene		0.09	0.05	0.04		0.04		0.22	0.14	0.11		0.10	0.26	0.21	0.88
83		75-27-4	Bromodichloromethane		0.16						0.40							
84		56-23-5	Carbon tetrachloride		0.21						0.53							
85		67-66-3	Chloroform		0.96	0.07					2.40	0.17						
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.47						1.17							
89		79-01-6	Trichloroethylene	1.50	114.93	6.73	1.46	1.60	1.43		283.56	13.07		0.24				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.52	0.06					1.31	0.15						
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.16						0.39							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.12						0.30							
103		5989-27-5	Limonene		0.49						1.21							
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane		0.50						1.25							
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	4.5	4.7	2.7	3.1	3.1	2.2		0.3							
122		50-00-0	Formaldehyde	3.8	1.3	0.6	0.8	0.7	0.6									
123		123-38-6	Propanal	0.6	0.0	0.0	0.0	0.0	0.0									
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	0.4	0.5	0.2	0.5	0.2		0.6	0.8	0.2	0.9	0.2	0.81	0.17	0.11

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 8: Small-scale chamber concentration and emission factor for VF33a (vinyl sheet and adhesive assembly)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol			1.23		1.52	2.25	2.21	1.90			3.08		3.81	5.62	5.54	4.75			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.96	2.03	2.46	2.55	2.35	3.28	3.44	3.28	0.00	2.67	3.76	3.98	3.47	5.81	6.21	5.82			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		2.64	2.75	3.13	2.80	1.95	1.81	1.45		6.59	6.87	7.82	7.01	4.87	4.54	3.62	9.96	0.19	0.74
6		108-95-2	Phenol		66.13	82.10	97.98	147.63	131.71	136.90	126.41		165.33	205.26	244.96	369.08	329.28	342.25	316.02			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.42	7.99	8.50	9.02	8.52	8.02	6.58	4.62	0.00	18.94	20.21	21.51	20.26	19.00	15.39	10.51	26.87	0.14	0.53
9		98-86-2	Acetophenone	0.34	0.56	0.47	0.90	1.16	0.24	0.30	0.14	0.00	0.56	0.33	1.41	2.07						
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde		2.95	3.39	3.45	3.66	2.95	3.12	2.60		7.39	8.48	8.63	9.16	7.37	7.80	6.50	9.61	0.06	0.47
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		0.50	0.46			0.21	0.20	0.18		1.25	1.14			0.52	0.49	0.45	1.53	0.27	1.00
29		112-40-3	Dodecane		0.52	0.51	0.40	0.35	0.31	0.26	0.20		1.30	1.29	0.99	0.88	0.78	0.65	0.51	1.61	0.22	0.90
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane		7.68	11.44	13.83	18.57	19.29	20.34	19.94		19.19	28.60	34.58	46.42	48.22	50.85	49.84			
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane						0.15	0.16							0.36	0.40				
35		629-62-9	Pentadecane		56.94	80.83	93.49	120.52	115.93	116.22	110.43		142.34	202.08	233.71	301.31	289.82	290.54	276.06			
36		629-59-4	Tetradecane		277.49	394.42	452.50	480.42	413.08	384.13	348.74		693.72	986.06	1131.25	1201.04	1032.69	960.32	871.85	1144.39	0.04	0.18
37		629-50-5	Tridecane		11.64	16.12	17.10	14.02	11.66	10.61	9.48		29.09	40.29	42.75	35.04	29.14	26.53	23.70	52.93	0.16	0.89
38		1120-21-4	Undecane		0.59	0.49	0.46	0.47	0.25	0.24	0.21		1.48	1.22	1.14	1.19	0.63	0.60	0.53	1.79	0.24	0.78
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-		0.17	0.10	0.07	0.07	0.05	0.05	0.05		0.43	0.24	0.16	0.17	0.13	0.14	0.12	0.26	0.16	0.80
41		620-14-4	Toluene, 3-ethyl-		0.28	0.19	0.12	0.11	0.11	0.12	0.11		0.71	0.47	0.29	0.28	0.28	0.30	0.28	0.44	0.11	0.54
42		622-96-8	Toluene, 4-ethyl-		0.19	0.11	0.10	0.12	0.09	0.08	0.07		0.48	0.28	0.24	0.30	0.22	0.19	0.18	0.32	0.11	0.56
43		31017-40-0	Cyclohexene, 4-phenyl		0.80	0.98							2.00	2.44								
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.14				0.04	0.04	0.04		0.36				0.09	0.11	0.11			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.34	0.24	0.18	0.13	0.10	0.12	0.10		0.84	0.60	0.44	0.33	0.26	0.30	0.26	0.71	0.23	0.93
47		95-47-6	Benzene, 1,2-dimethyl-		0.34	0.35	0.38	0.26	0.19	0.20	0.17		0.86	0.86	0.96	0.64	0.47	0.49	0.42	1.26	0.23	0.91
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-		1.01	1.29	1.39	0.70	0.56	0.60	0.48		2.54	3.22	3.49	1.76	1.40	1.50	1.20	5.05	0.31	0.93
50		98-82-8	Benzene, isopropyl		0.41		0.11	0.14	0.12	0.14	0.13		1.03		0.28	0.35	0.30	0.34	0.32			
51		103-65-1	Benzene, propyl-		0.31	0.21	0.19	0.17	0.14	0.15	0.14		0.78	0.53	0.46	0.42	0.36	0.36	0.35	0.59	0.11	0.96
52		100-41-4	Ethylbenzene		0.53	0.51	0.61	0.49	0.40	0.41	0.36		1.32	1.27	1.53	1.24	1.00	1.02	0.89	1.66	0.12	0.73
53		91-20-3	Naphthalene	0.10	4.83	3.37	2.09	1.31	0.92	0.90	0.89	0.00	11.83	8.17	4.98	3.01	2.06	2.00	1.98	11.47	0.41	0.97
54		99-87-6	p-Cymene		0.73	0.37	0.24	0.19	0.19	0.19	0.22		1.82	0.93	0.59	0.47	0.47	0.48	0.56	0.88	0.14	0.60
55		100-42-5	Styrene		3.66	2.41	2.55	3.44	3.09	3.43	3.52		9.16	6.03	6.38	8.59	7.72	8.57	8.80			
56		108-88-3	Toluene	0.12	1.53	1.56	1.94	1.39	1.04	1.09	0.85	0.00	3.52	3.59	4.55	3.19	2.31	2.42	1.81	5.51	0.21	0.79
57		98-83-9	2-Phenylpropene		0.23				0.10	0.11	0.12		0.56				0.25	0.27	0.30			
58		95-13-6	Indene		3.23	1.81	1.05	1.08	0.93	1.00	1.03		8.08	4.52	2.63	2.70	2.33	2.50	2.58	4.20	0.13	0.58
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester							0.09								0.22				
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB	0.51	14.29	44.88	202.54	645.28	530.57	553.09	532.69	0.00	34.44	110.93	505.07	1611.91	1325.16	1381.44	1330.45			

Table A. 8 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		0.66	0.59	0.87	1.30	1.22	1.18	1.00		1.66	1.49	2.17	3.24	3.06	2.96	2.49			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.41	15.06	11.55	10.43	1.03	0.75	1.15	0.89	0.00	36.62	27.85	25.05	1.56	0.85	1.86	1.21	91.21	1.04	0.85
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-			0.15								0.37								
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		2.48	1.31	0.64	0.58	0.57	0.61	0.64		6.19	3.27	1.60	1.45	1.43	1.53	1.59	2.87	0.16	0.51
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene		3.30	1.63	0.78	0.58	0.51	0.54	0.54		8.25	4.07	1.95	1.46	1.27	1.34	1.35	4.20	0.28	0.79
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		0.53	0.36		0.15		0.14	0.15		1.33	0.91		0.38		0.35	0.39	1.12	0.27	0.87
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane				0.64			0.32					1.61			0.80				
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	a	b	R^2
113	DNPH	75-07-0	Acetaldehyde	7.8	9.5	8.3	9.8	23.6	16.2	14.1	0.0		4.2	1.3	5.2	39.5	21.2	15.7				
114		50-00-0	Formaldehyde	5.7	29.5	0.0	28.7	7.4	12.3	4.1	2.8		59.7		57.5	4.4	16.6			177.49	0.80	0.40
115		123-38-6	Propanal	0.8	0.0	0.0	0.0	1.6	0.0	1.1	0.0					2.2		0.8				
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	a	b	R^2
118	PFPH	107-02-8	Acrolein	0.1	1.0	0.9	1.0	0.6	0.5	0.2	0.0		2.4	2.0	2.3	1.2	1.0	0.4		4.80	0.49	0.80

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 9: Small-scale chamber concentration and emission factor for VF34 (vinyl plank)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		4.94	1.89	1.17	1.04	0.84		12.34	4.72	2.92	2.60	2.10	27.66	0.56	0.98
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	2.59	18.79	13.22	9.32	7.40	7.77		40.49	26.58	16.81	12.01	12.94	157.99	0.57	0.92
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.33	0.14	0.20	0.09	0.09		0.82	0.34	0.50	0.23	0.23	1.29	0.36	0.35
6		108-95-2	Phenol		64.80	46.59	28.40	25.64	22.49		161.99	116.48	71.00	64.10	56.23	580.24	0.52	0.96
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		7.29	4.42	3.32	3.16	2.91		18.22	11.04	8.30	7.90	7.27	27.49	0.29	0.96
8		67-64-1	Acetone	0.44	6.46	1.46	1.23	1.65	1.83		15.05	2.55	1.97	3.03	3.47			
9		98-86-2	Acetophenone	0.51	0.80	0.60	0.41	0.36	0.30		0.74	0.22						
10		108-94-1	Cyclohexanone		20.07	11.06	7.42	5.69	5.87		50.17	27.65	18.54	14.22	14.67	129.18	0.49	0.94
11		108-10-1	Methylisobutyl ketone		24.74	13.88	10.28	9.46	9.59		61.84	34.69	25.70	23.64	23.98	81.46	0.28	0.89
12		100-52-7	Benzaldehyde	0.78	1.03	0.47	0.42	0.45	0.40		0.62							
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		7.02			3.04			17.56			7.61				
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.19						0.49							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.73						1.83							
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.14	0.22	0.20	0.16	0.16		2.85	0.55	0.51	0.41	0.40	1.29	0.26	0.91
29		112-40-3	Dodecane		0.35	0.16	0.11	0.10	0.11		0.88	0.39	0.26	0.26	0.27	0.87	0.27	0.71
30		142-82-5	Heptane		0.67						1.67							
31		544-76-3	Hexadecane		0.27	0.13			0.07		0.68	0.32			0.18			
32		110-54-3	Hexane		0.71						1.77							
33		111-84-2	Nonane		1.17	0.58	0.49	0.42	0.42		2.94	1.46	1.22	1.05	1.06	3.21	0.25	0.95
34		111-65-9	Octane		0.37	0.30	0.21	0.23	0.20		0.92	0.74	0.52	0.57	0.49	1.62	0.26	0.77
35		629-62-9	Pentadecane		2.53		0.91		0.63		6.32		2.29		1.56			
36		629-59-4	Tetradecane		4.72	0.41	0.33	0.33	0.21		11.80	1.02	0.84	0.81	0.54	3.79	0.40	0.78
37		629-50-5	Tridecane		0.50	0.14	0.08		0.08		1.25	0.34	0.19		0.19	1.12	0.41	0.76
38		1120-21-4	Undecane		0.52	0.14	0.11	0.09	0.09		1.30	0.35	0.27	0.23	0.21	1.09	0.36	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.17	0.07	0.04	0.04	0.04		0.41	0.17	0.10	0.09	0.09	0.77	0.49	0.90
40		611-14-3	Toluene, 2-ethyl-		0.35	0.16	0.12	0.09	0.09		0.89	0.41	0.30	0.23	0.21	1.95	0.49	1.00
41		620-14-4	Toluene, 3-ethyl-		0.80	0.43	0.28	0.21	0.19		2.00	1.07	0.69	0.52	0.48	6.98	0.60	0.99
42		622-96-8	Toluene, 4-ethyl-		0.43	0.22	0.16	0.11	0.09		1.08	0.56	0.40	0.28	0.23	4.33	0.63	0.98
43		31017-40-0	Cyclohexene, 4-phenyl		0.12	0.10	0.05	0.05	0.04		0.29	0.24	0.13	0.12	0.09	1.89	0.66	0.94
44		71-43-2	Benzene		0.07		0.03		0.01		0.19		0.08		0.03			
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.31	0.12	0.08	0.07	0.07		0.77	0.29	0.19	0.17	0.18	0.94	0.39	0.87
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.05	0.57	0.37	0.28	0.20		2.62	1.41	0.91	0.69	0.51	14.31	0.72	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		0.84	0.33	1.84	0.65	0.41		2.11	0.82	4.59	1.63	1.01			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.29	0.14	0.11	0.07	0.06		0.73	0.35	0.26	0.18	0.15	2.90	0.65	0.97
49		108-38-3	Benzene, 1,3-dimethyl-		2.21	0.70	7.56	2.10	1.24		5.53	1.75	18.90	5.26	3.10			
50		98-82-8	Benzene, isopropyl		0.21	0.11	0.08	0.07	0.05		0.53	0.27	0.20	0.17	0.12	1.38	0.51	0.94
51		103-65-1	Benzene, propyl-		0.69	0.34	0.24	0.19	0.15		1.73	0.85	0.59	0.48	0.38	5.16	0.56	0.99
52		100-41-4	Ethylbenzene		1.11	0.41	2.25	0.64	0.42		2.77	1.03	5.63	1.60	1.04	1.97	0.03	0.00
53		91-20-3	Naphthalene		0.61	0.35	0.22	0.16	0.13		1.52	0.88	0.54	0.40	0.33	8.40	0.71	1.00
54		99-87-6	p-Cymene		0.12	0.04			0.04		0.30	0.10			0.10			
55		100-42-5	Styrene		0.49	0.22	0.13	0.17	0.13		1.22	0.55	0.33	0.44	0.33	1.31	0.30	0.52
56		108-88-3	Toluene	0.25	133.38	76.61	57.66	52.45	48.23		332.83	190.92	143.53	130.50	119.96	541.75	0.33	0.98
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.43	0.14	0.17	0.09			1.07	0.35	0.44	0.22		1.27	0.36	0.32
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate		0.35						0.87							
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone		1.96						4.89							
66		25265-77-4	Texanol			5.85	3.23	3.26	2.30			14.63	8.07	8.15	5.75	100.42	0.62	0.92
67		6846-50-0	TXIB		2.29	9.81	5.46	4.23	3.97		5.71	24.53	13.64	10.59	9.94	199.37	0.67	0.97

Table A. 9 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		2.89	1.58	0.80				7.23	3.94	1.99					
73		112-34-5	Ethanol, 2-butoxyethoxy-			4.39	2.12	1.47	1.59			10.97	5.29	3.68	3.97	125.95	0.79	0.92
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane		0.06						0.14							
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene		0.04						0.10							
83		75-27-4	Bromodichloromethane		0.14						0.35							
84		56-23-5	Carbon tetrachloride		0.22						0.56							
85		67-66-3	Chloroform		1.06						2.64							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.52						1.29							
89		79-01-6	Trichloroethylene	1.54	113.13	3.62	1.49	1.66	2.33		278.96	5.19		0.30	1.96	198.61	1.23	0.38
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.39	0.30	0.23	0.26	0.22		0.98	0.75	0.56	0.64	0.55	1.31	0.19	0.62
92		110-82-7	Cyclohexane		0.24	0.26	0.24	0.22	0.25		0.60	0.66	0.60	0.56	0.64	0.76	0.05	0.21
93		1678-93-9	Cyclohexane, butyl-		0.35	0.17	0.22	0.12	0.16		0.89	0.42	0.56	0.30	0.40	0.70	0.14	0.10
94		1678-91-7	Cyclohexane, ethyl-		0.53	0.57	0.40	0.47	0.47		1.33	1.43	0.99	1.19	1.17	1.94	0.12	0.25
95		1678-92-8	Cyclohexane, propyl-		0.52	0.34	0.29	0.27	0.22		1.29	0.86	0.72	0.68	0.55	2.22	0.29	0.92
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.58	0.08	0.07	0.05	0.06		1.44	0.21	0.18	0.12	0.16	0.54	0.30	0.52
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.18						0.45							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.15						0.38							
103		5989-27-5	Limonene		0.68	0.15					1.69	0.39						
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		1.19	0.77	0.88	0.81	0.52		2.98	1.92	2.21	2.04	1.30	4.20	0.21	0.29
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	7.0	9.8	3.4	3.7	3.1	2.6		6.9							
122		50-00-0	Formaldehyde	10.2	1.0	0.8	0.8	5.1	2.9									
123		123-38-6	Propanal	0.0	0.0	0.0	0.0	0.0	0.0									
				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.4	0.2	0.2	0.1	0.5	0.2					0.2				

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 10: Small-scale chamber concentration and emission factor for CRP10 (area rug; polypropylene)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24.2 h	48 h	72 h	96 h	0 h	1.5 h	24.2 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	2.59	14.35	13.31	8.55	10.47	9.43		29.41	26.82	14.90	19.71	17.10	57.75	0.28	0.43
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	11.23	13.34	10.89	6.13	7.49	7.15		5.27							
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.71						1.79							
6		108-95-2	Phenol	4.54	2.02	1.02	1.59	1.52	1.27									
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	0.25	0.50	0.12	0.09	0.06	0.07		0.62							
8		67-64-1	Acetone	0.39	9.47	0.82	1.10	0.52	0.92		22.68	1.05	1.76	0.31	1.31	2.76	0.27	0.05
9		98-86-2	Acetophenone	0.44	0.56	0.44	0.52	0.21	0.43		0.31		0.22					
10		108-94-1	Cyclohexanone		0.68	0.25	0.18	0.17	0.15		1.70	0.62	0.46	0.43	0.37	1.95	0.36	0.98
11		108-10-1	Methylisobutyl ketone		0.21						0.53							
12		100-52-7	Benzaldehyde		1.00	0.46	0.40	0.36	0.37		2.51	1.16	1.01	0.90	0.93	2.02	0.18	0.89
13		123-72-8	Butanal															
14		112-31-2	Decanal		2.38	1.02					5.95	2.56						
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		0.41	0.10					1.03	0.25						
17		111-71-7	Heptanal			0.11						0.27						
18		66-25-1	Hexanal		10.19	1.15					25.47	2.87						
19		124-19-6	Nonanal		6.42	1.48	0.73	0.53	0.43		16.05	3.71	1.84	1.32	1.08	64.21	0.90	0.99
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.61						1.53							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.96						2.41							
25		96-14-0	Pentane, 3-methyl-		0.64						1.61							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		2.30	0.31	0.16	0.12			5.76	0.77	0.41	0.30		12.86	0.88	1.00
29		112-40-3	Dodecane		2.45	1.04	0.49	0.51	0.46		6.13	2.61	1.24	1.27	1.14	14.92	0.58	0.83
30		142-82-5	Heptane		0.81						2.03							
31		544-76-3	Hexadecane		50.64	25.01	16.51	22.35	22.63		126.60	62.53	41.28	55.87	56.57	64.39	0.05	0.02
32		110-54-3	Hexane		1.01						2.51							
33		111-84-2	Nonane		0.75	0.08					1.88	0.19						
34		111-65-9	Octane		0.25						0.62							
35		629-62-9	Pentadecane		57.15	26.58	17.16	24.01	24.13		142.88	66.45	42.91	60.01	60.34	66.35	0.04	0.02
36		629-59-4	Tetradecane		20.48	9.31	5.82	7.80	8.25		51.20	23.28	14.55	19.51	20.62	25.52	0.07	0.05
37		629-50-5	Tridecane		4.21	1.70	0.96	1.45	1.34		10.53	4.26	2.41	3.63	3.36	5.41	0.12	0.09
38		1120-21-4	Undecane	0.12	1.56	0.37	0.17	0.15	0.13		3.58	0.60	0.12	0.06	0.02	1026.52	2.33	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.19	0.06	0.03	0.03	0.02		0.47	0.15	0.07	0.07	0.05	1.86	0.80	0.97
40		611-14-3	Toluene, 2-ethyl-		0.24	0.02					0.59	0.06						
41		620-14-4	Toluene, 3-ethyl-		0.49	0.04					1.22	0.09						
42		622-96-8	Toluene, 4-ethyl-		0.25	0.03					0.62	0.07						
43		31017-40-0	Cyclohexene, 4-phenyl		0.31	0.14	0.08	0.10	0.11		0.78	0.34	0.21	0.25	0.26	0.55	0.19	0.28
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.37	0.05					0.93	0.13						
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.03	0.10			0.03		2.58	0.24			0.08			
47		95-47-6	Benzene, 1,2-dimethyl-		0.62	0.04	0.03		0.03		1.56	0.11	0.07		0.08	0.24	0.27	0.62
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.35	0.03					0.88	0.08						
49		108-38-3	Benzene, 1,3-dimethyl-		2.37	0.11	0.07	0.04	0.07		5.91	0.27	0.18	0.11	0.18	1.05	0.45	0.51
50		98-82-8	Benzene, isopropyl		0.07						0.18							
51		103-65-1	Benzene, propyl-		0.21	0.02					0.53	0.05						
52		100-41-4	Ethylbenzene	0.04	0.61	0.05	0.04	0.03	0.04		1.43	0.01						
53		91-20-3	Naphthalene		1.35	0.59	0.32	0.27	0.23		3.37	1.47	0.80	0.67	0.57	12.53	0.69	0.98
54		99-87-6	p-Cymene		0.26	0.06					0.66	0.16						
55		100-42-5	Styrene	0.11	0.24	0.07	0.09	0.10	0.13		0.32				0.05			
56		108-88-3	Toluene	1.07	13.02	0.75	0.53	0.45	0.56		29.87							
57		98-83-9	2-Phenylpropene		0.18	0.08	0.11				0.45	0.20	0.27					
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.36	0.24	0.29				0.89	0.60	0.73					
62		141-78-6	Acetic acid, ethyl ester			0.11						0.27						
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB	1.26														

Table A. 10 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24.2 h	48 h	72 h	96 h	0 h	1.5 h	24.2 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		0.57	0.38					1.41	0.94						
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane		0.07						0.17							
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.24						0.60							
82		106-46-7	1,4-Dichlorobenzene		0.10	0.02					0.26	0.05						
83		75-27-4	Bromodichloromethane		0.15				0.00		0.37				0.00			
84		56-23-5	Carbon tetrachloride		0.21						0.51							
85		67-66-3	Chloroform		1.05	0.05					2.61	0.12						
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.46						1.16							
89		79-01-6	Trichloroethylene	2.80	226.78	3.49	2.76	2.44	5.22		559.96	1.73			6.05			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.23						0.57							
92		110-82-7	Cyclohexane		0.18						0.45							
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.25	0.09	0.06	0.06	0.06		3.13	0.22	0.15	0.14	0.15	0.59	0.33	0.80
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.24	0.03					0.60	0.07						
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.19						0.46							
103		5989-27-5	Limonene	0.16	3.37	0.79	0.28	0.20	0.20		8.03	1.56	0.30	0.09	0.09	1492.47	2.18	0.96
104	Acids	64-19-7	Acetic acid		68.41	238.47	102.65	166.19	116.97		171.02	596.16	256.63	415.49	292.42	1902.01	0.41	0.42
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.93						2.33							
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25.6 h	49.2 h	73.2 h	97.2 h	0 h		25.6 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	5.8		5.5	12.7	14.7	32.2				17.5	22.5	66.0			
122		50-00-0	Formaldehyde	2.1		2.9	2.9	3.3	2.0			2.1	2.2	3.0				
123		123-38-6	Propanal	0.0		0.0	0.5	0.0	0.0				1.2					
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 2.8 h		
				0 h	2.8 h	25.6 h	49.2 h	73.2 h	97.2 h	0 h	2.8 h	25.6 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	0.4	0.2	0.0	0.1	0.0		0.6	0.1						

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 11: Small-scale chamber concentration and emission factor for CRP11 (area rug; olefin)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24.1 h	48 h	72 h	96 h	0 h	1.5 h	24.1 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.10	5.65	1.42			0.92		11.36	0.80						
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	3.63	19.76	8.96	4.95	4.79	3.83		40.34	13.34	3.32	2.92	0.52	10617.27	2.07	0.88
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.11						0.28							
6		108-95-2	Phenol	2.00	3.48	1.19	1.25	1.36	1.67		3.69							
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	0.26	0.46	0.08					0.50							
8		67-64-1	Acetone	0.33	10.34	0.70	0.76	0.60	0.36		25.03	0.93	1.07	0.68	0.08	142.41	1.43	0.51
9		98-86-2	Acetophenone	0.21	0.89	0.71	0.76	0.94	0.28		1.71	1.26	1.37	1.83	0.18	39.63	0.96	0.30
10		108-94-1	Cyclohexanone	0.21	1.71	0.40	0.22	0.19	0.16		3.76	0.50	0.04					
11		108-10-1	Methylisobutyl ketone		0.46						1.16							
12		100-52-7	Benzaldehyde	0.33	1.92	0.72	0.52	0.40	0.36		3.98	0.98	0.47	0.18	0.09	268.53	1.72	0.96
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural	0.27	0.41						0.34							
17		111-71-7	Heptanal			0.31						0.77						
18		66-25-1	Hexanal		14.63	1.63					36.57	4.06						
19		124-19-6	Nonanal		7.20	2.24	1.24	1.13	0.96		18.01	5.60	3.11	2.82	2.41	35.68	0.60	0.95
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.74						1.85							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		1.41						3.52							
25		96-14-0	Pentane, 3-methyl-		0.93						2.32							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane	0.08	3.35	0.51	0.23	0.22	0.17		8.17	1.07	0.38	0.34	0.23	29.99	1.07	0.95
29		112-40-3	Dodecane		1.45	0.64	0.43	0.41	0.37		3.62	1.59	1.06	1.03	0.92	5.20	0.39	0.93
30		142-82-5	Heptane		1.19						2.97							
31		544-76-3	Hexadecane		0.89	1.71	0.24	0.20			2.21	4.27	0.59	0.50		2487.37	2.05	0.91
32		110-54-3	Hexane		1.56	0.08					3.90	0.19						
33		111-84-2	Nonane		1.16	0.13		0.07			2.91	0.33		0.17				
34		111-65-9	Octane		0.45						1.13							
35		629-62-9	Pentadecane	0.03	3.84	1.61	1.36	1.53	1.33		9.51	3.95	3.31	3.75	3.24	5.43	0.11	0.45
36		629-59-4	Tetradecane	0.09	0.76	0.28	0.16	0.22	0.17		1.67	0.48	0.17	0.33	0.22	1.62	0.45	0.33
37		629-50-5	Tridecane		1.01	0.42	0.68	0.68	0.61		2.53	1.05	1.71	1.71	1.52			
38		1120-21-4	Undecane	0.04	2.65	0.80	0.56	0.49	0.43		6.51	1.90	1.29	1.11	0.97	8.57	0.48	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.17	0.07	0.05	0.05	0.05		0.44	0.16	0.12	0.12	0.12	0.32	0.22	0.83
40		611-14-3	Toluene, 2-ethyl-		0.33	0.05	0.03	0.02	0.02		0.82	0.13	0.07	0.06	0.05	1.25	0.71	0.99
41		620-14-4	Toluene, 3-ethyl-		0.74	0.11	0.04				1.84	0.26	0.11					
42		622-96-8	Toluene, 4-ethyl-		0.42	0.06	0.02				1.04	0.14	0.06					
43		31017-40-0	Cyclohexene, 4-phenyl		6.74	3.56	2.80	2.91	2.60		16.85	8.91	7.00	7.28	6.50	16.74	0.21	0.84
44		71-43-2	Benzene					0.05						0.12				
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.52	0.10	0.06	0.04	0.04		1.29	0.25	0.14	0.11	0.09	2.64	0.74	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.50	0.23	0.11	0.10	0.05		3.74	0.57	0.27	0.25	0.13	12.33	0.97	0.91
47		95-47-6	Benzene, 1,2-dimethyl-	0.04	1.02	0.12	0.06	0.05			2.46	0.21	0.06	0.03		58.09	1.77	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.47	0.07	0.03	0.03			1.18	0.17	0.08	0.07		2.48	0.86	0.98
49		108-38-3	Benzene, 1,3-dimethyl-	0.10	3.69	0.28	0.13	0.09	0.06		8.98	0.44	0.06					
50		98-82-8	Benzene, isopropyl		0.21	0.06					0.52	0.15						
51		103-65-1	Benzene, propyl-		0.38	0.06	0.04	0.03			0.96	0.15	0.10	0.08		0.97	0.58	1.00
52		100-41-4	Ethylbenzene	0.04	1.09	0.10	0.05	0.04	0.03		2.63	0.14	0.04	0.02		60.15	1.90	1.00
53		91-20-3	Naphthalene		1.64	0.77	0.54	0.51	0.43		4.09	1.92	1.36	1.27	1.07	6.89	0.41	0.97
54		99-87-6	p-Cymene		0.35	0.10	0.06	0.05	0.04		0.88	0.24	0.15	0.12	0.09	2.01	0.67	1.00
55		100-42-5	Styrene	0.05	0.83	0.18	0.15	0.12	0.09		1.94	0.31	0.24	0.18	0.09	5.19	0.84	0.81
56		108-88-3	Toluene	0.89	17.45	0.94	0.65	0.44	0.38		41.39	0.10						
57		98-83-9	2-Phenylpropene		0.26	0.07					0.64	0.17						
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		0.21						0.53							
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol	1.39														
67		6846-50-0	TXIB	1.35	2.73	0.96			0.25		3.47							

Table A. 11 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24.1 h	48 h	72 h	96 h	0 h	1.5 h	24.1 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		33.90	21.26	6.00	3.22	1.95		84.76	53.16	15.00	8.06	4.87	12285.47	1.72	1.00
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-	0.24	0.86	0.34					1.54	0.23						
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane		0.08						0.21							
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.38						0.94							
82		106-46-7	1,4-Dichlorobenzene		0.24	0.06					0.61	0.14						
83		75-27-4	Bromodichloromethane		0.18						0.44							
84		56-23-5	Carbon tetrachloride		0.30						0.76							
85		67-66-3	Chloroform		1.39	0.06					3.49	0.16						
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.68						1.69							
89		79-01-6	Trichloroethylene	2.96	294.39	5.56	4.08	2.36	3.03		728.58	6.51	2.80		0.16	43638.00	2.67	0.92
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.33						0.83							
92		110-82-7	Cyclohexane		0.22						0.55							
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		2.03	0.16	0.11	0.09	0.10		5.07	0.41	0.28	0.22	0.24	1.57	0.43	0.87
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.45	0.06					1.12	0.14						
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.23						0.59							
103		5989-27-5	Limonene		6.62	2.15	1.20	0.91	0.77		16.56	5.37	3.01	2.28	1.93	56.03	0.74	0.99
104	Acids	64-19-7	Acetic acid		52.96	49.99	23.55	17.53	16.68		132.40	124.98	58.87	43.82	41.71	1600.40	0.82	0.95
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.85						2.13							
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether			0.11						0.27						
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25.4 h	49.2 h	73.2 h	97.2 h	0 h		25.4 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	8.3		10.3	38.0	28.4	32.3			4.9	74.2	50.4	60.0			
122		50-00-0	Formaldehyde	1.5		2.5	2.3	1.9	1.8			2.7	2.0	1.1	1.0	37.75	0.80	0.93
123		123-38-6	Propanal	0.0		0.0	0.4	0.0	0.7				1.0		1.6			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 2.7 h		
				0 h	2.7 h	25.4 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.4 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.0	0.3	0.3	0.1	0.2	0.1		0.7	0.6	0.2	0.4	0.1	1.15	0.37	0.56

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 12: Small-scale chamber concentration and emission factor for LAM7 (laminated flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.6 h	24 h	48.5 h	72.5 h	96.5 h	0 h	1.6 h	24 h	48.5 h	72.5 h	96.5 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		4.73			1.44	3.69		11.83			3.60	9.22			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	1.73	6.15	0.80	2.90	2.30	4.42		11.04		2.92	1.43	6.71			
4		67-63-0	2-Propanol		0.99						2.46							
5		64-17-5	Ethanol		0.25		0.36		0.16		0.62		0.89		0.39			
6		108-95-2	Phenol					1.17						2.92				
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.18						0.45							
8		67-64-1	Acetone	0.48	1.82	0.26	0.66		0.31		3.36		0.44					
9		98-86-2	Acetophenone															
10		108-94-1	Cyclohexanone		0.37						0.92							
11		108-10-1	Methylisobutyl ketone		0.46						1.16							
12		100-52-7	Benzaldehyde															
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		4.40						11.01							
19		124-19-6	Nonanal		1.58						3.95							
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.66						4.15							
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.59						1.46							
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane		0.18						0.44							
37		629-50-5	Tridecane															
38		1120-21-4	Undecane		0.63						1.59							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.14						0.35							
41		620-14-4	Toluene, 3-ethyl-		0.24						0.60							
42		622-96-8	Toluene, 4-ethyl-		0.18						0.46							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.22						0.55							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.67						1.67							
47		95-47-6	Benzene, 1,2-dimethyl-		0.36						0.90							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.20						0.50							
49		108-38-3	Benzene, 1,3-dimethyl-		1.46				0.03		3.65				0.08			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.13						0.32							
52		100-41-4	Ethylbenzene		0.35						0.87							
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene		0.11						0.28							
55		100-42-5	Styrene	0.19	0.09													
56		108-88-3	Toluene	0.14	0.95	0.10	0.63	0.21	0.26		2.02		1.21	0.16	0.30	4745.31	2.22	0.55
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB	0.51	0.76	0.40	0.68	1.12			0.62		0.40	1.50				

Table A. 12 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.6 h	24 h	48.5 h	72.5 h	96.5 h	0 h	1.6 h	24 h	48.5 h	72.5 h	96.5 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene						0.06						0.15			
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	1.21	9.61	1.71	18.81	1.36	5.23		20.98	1.24	43.99	0.36	10.06			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.86				0.04		2.16				0.11			
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.14						0.35							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		4.51						11.26							
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.9 h	25.8 h	49.8 h	73.8 h	97.8 h	0 h	2.9 h	25.8 h	49.8 h	73.8 h	97.8 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	9.4	9.7	7.3	13.0	7.2	4.5		0.8		9.0					
122		50-00-0	Formaldehyde	7.5	8.2	6.0	5.6	6.6	5.1		1.7							
123		123-38-6	Propanal	0.9	1.1	0.7	0.9	1.0	0.8		0.6			0.3				
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25.8 h	49.8 h	73.8 h	97.8 h	0 h		25.8 h	49.8 h	73.8 h	97.8 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.1		0.8		0.3	0.8									

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 13: Small-scale chamber concentration and emission factor for LAM8 (bamboo laminated flooring)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		1.77	0.41	0.36		0.48		4.43	1.03	0.90		1.19			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	1.80	3.57	2.23	1.47	1.23	3.13		4.44	1.09			3.33			
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol															
6		108-95-2	Phenol		0.71		0.31		1.03		1.77		0.78		2.57			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.38						0.95							
8		67-64-1	Acetone	0.34	4.37	0.78	0.63	0.49	0.99		10.09	1.11	0.73	0.37	1.63	1.06	0.06	0.00
9		98-86-2	Acetophenone	0.08	0.18	0.13	0.12	0.07	0.12		0.24	0.12	0.08		0.10	0.17	0.14	0.24
10		108-94-1	Cyclohexanone		0.25						0.63							
11		108-10-1	Methylisobutyl ketone		0.09						0.22							
12		100-52-7	Benzaldehyde	0.15	0.55	0.18	0.18	0.13	0.27		0.99	0.07	0.06		0.30			
13		123-72-8	Butanal		0.39						0.96							
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		4.60	1.21	1.20		1.82		11.51	3.03	2.99		4.55			
19		124-19-6	Nonanal		1.00				0.26		2.51				0.66			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.36						0.90							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.60						1.51							
25		96-14-0	Pentane, 3-methyl-		0.35						0.88							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.69						1.73							
29		112-40-3	Dodecane															
30		142-82-5	Heptane		0.50						1.25							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.49						1.22							
33		111-84-2	Nonane		0.29						0.73							
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane		0.21						0.52							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.08						0.21							
41		620-14-4	Toluene, 3-ethyl-		0.15						0.37							
42		622-96-8	Toluene, 4-ethyl-		0.10						0.25							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.11						0.28							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.32						0.79							
47		95-47-6	Benzene, 1,2-dimethyl-		0.24				0.03		0.60				0.07			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.11						0.27							
49		108-38-3	Benzene, 1,3-dimethyl-	0.04	0.94	0.06	0.05		0.07		2.26	0.06	0.03		0.09			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.08						0.20							
52		100-41-4	Ethylbenzene	0.02	0.27	0.02			0.04		0.63	0.01			0.05			
53		91-20-3	Naphthalene		0.03						0.08							
54		99-87-6	p-Cymene		0.04						0.09							
55		100-42-5	Styrene		0.33	0.06		0.03			0.82	0.16		0.07				
56		108-88-3	Toluene	0.20	4.10	0.15	0.14	0.09	0.31		9.75				0.28			
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol		0.83						2.08							
67		6846-50-0	TXIB	0.19	0.74	0.22	0.10	0.08	0.13		1.37	0.08						

Table A. 13 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.14						0.34							
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane		0.09						0.23							
84		56-23-5	Carbon tetrachloride	0.10	0.10						0.01							
85		67-66-3	Chloroform		0.76				0.04		1.91				0.10			
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.33						0.82							
89		79-01-6	Trichloroethylene	2.03	110.81	2.25	1.95	1.53	6.06		271.96	0.54			10.08			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.14						0.34							
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-		0.10						0.25							
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.33						0.84							
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.07						0.19							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.50						1.24							
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.2 h	49.2 h	73.3 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.2 h	49.2 h	73.3 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	3.8	4.2	3.2	2.7	16.0	17.2		1.2			30.6	33.6			
122		50-00-0	Formaldehyde	7.2	8.7	10.5	7.3	1.7	1.7		3.9	8.2	0.4			9.44	0.52	0.24
123		123-38-6	Propanal	0.0	0.8	0.0	0.8	1.0	0.9		2.0		2.1	2.6	2.3			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.2 h	49.2 h	73.3 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.2 h	49.2 h	73.3 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.0		0.1	0.2	0.4	0.3			0.1	0.4	0.9	0.6			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 14: Small-scale chamber concentration and emission factor for COR1 (cork flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		3.92	1.65	1.09	1.08	1.57		9.80	4.13	2.71	2.70	3.91	5.10	0.11	0.08
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	1.96	4.40	5.35	2.51	2.29	4.91		6.09	8.48	1.37	0.81	7.37	27.20	0.56	0.08
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.15						0.37							
6		108-95-2	Phenol		29.61	20.54	14.28	12.06	19.27		74.03	51.36	35.71	30.15	48.17	73.39	0.15	0.13
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.57						1.44							
8		67-64-1	Acetone	0.17	25.68	4.01	3.05	2.70	3.82		63.78	9.58	7.19	6.31	9.12	12.64	0.12	0.13
9		98-86-2	Acetophenone	0.05	0.60	0.42	0.22	0.16	0.28		1.37	0.93	0.42	0.27	0.56	4.34	0.55	0.40
10		108-94-1	Cyclohexanone		13.26	4.41	1.98	1.31	1.28		33.15	11.02	4.94	3.28	3.21	203.18	0.94	0.96
11		108-10-1	Methylisobutyl ketone		0.17						0.43							
12		100-52-7	Benzaldehyde	0.13	12.94	4.10	1.46	0.87	1.16		32.02	9.93	3.33	1.84	2.58	287.43	1.11	0.83
13		123-72-8	Butanal		0.79						1.98							
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal		0.82						2.06							
16		98-01-1	Furfural		2.52	0.47		0.10			6.31	1.16		0.25				
17		111-71-7	Heptanal		6.20	1.48	0.44				15.51	3.71	1.10					
18		66-25-1	Hexanal		320.57	72.99	20.69	12.65	13.89		801.42	182.46	51.74	31.61	34.72	9148.40	1.28	0.91
19		124-19-6	Nonanal		4.70	1.67	0.73	0.43	0.57		11.75	4.18	1.82	1.06	1.41	65.04	0.90	0.84
20		18829-56-6	2-Nonenal		0.48						1.21							
21		124-13-0	Octanal		2.13	0.77	0.31	0.14			5.32	1.92	0.79	0.36		232.31	1.50	0.99
22		2548-87-0	2-Octenal		1.91	0.59	0.51				4.77	1.47	1.28					
23		110-62-3	Pentanal		5.44	1.07	0.36	0.22	0.21		13.60	2.68	0.90	0.56	0.52	124.87	1.24	0.96
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		0.60						1.49							
25		96-14-0	Pentane, 3-methyl-		0.38						0.95							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.81						2.03							
29		112-40-3	Dodecane		0.09						0.23							
30		142-82-5	Heptane		0.51						1.28							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.50			1.26			1.26			3.15				
33		111-84-2	Nonane		0.33						0.82							
34		111-65-9	Octane		0.17						0.42							
35		629-62-9	Pentadecane		0.09						0.23							
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane		0.07						0.18							
38		1120-21-4	Undecane		0.27						0.68							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.09						0.24							
41		620-14-4	Toluene, 3-ethyl-		0.18						0.45							
42		622-96-8	Toluene, 4-ethyl-		0.10						0.26							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.12						0.30							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.42						1.05							
47		95-47-6	Benzene, 1,2-dimethyl-		0.30	0.03			0.02		0.75	0.07			0.05			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.15						0.37							
49		108-38-3	Benzene, 1,3-dimethyl-		1.21	0.09	0.05	0.05	0.07		3.01	0.23	0.14	0.14	0.18	0.43	0.24	0.35
50		98-82-8	Benzene, isopropyl		0.09						0.22							
51		103-65-1	Benzene, propyl-		0.10						0.26							
52		100-41-4	Ethylbenzene		0.33	0.03	0.02	0.02	0.03		0.82	0.08	0.04	0.06	0.07	0.07	0.03	0.00
53		91-20-3	Naphthalene		0.05			0.02			0.12			0.04				
54		99-87-6	p-Cymene		0.17	0.05	0.03				0.43	0.13	0.07					
55		100-42-5	Styrene		0.23	0.08	0.04	0.10	0.06		0.57	0.20	0.10	0.25	0.14	0.20	0.06	0.01
56		108-88-3	Toluene	0.10	4.70	0.34	0.15	0.18	0.25		11.51	0.61	0.15	0.20	0.38	1.65	0.44	0.17
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		0.30						0.74							
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB	0.18	1.10	0.93		0.69	0.43		2.29	1.88		1.27	0.64	16.25	0.66	0.79

Table A. 14 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e		2.51	1.39	0.79	0.50	0.54		6.27	3.47	1.98	1.26	1.36	35.60	0.74	0.93
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		0.57						1.43							
73		112-34-5	Ethanol, 2-butoxyethoxy-		2.70	3.39	2.23	2.26	2.69		6.76	8.49	5.56	5.66	6.72	14.47	0.20	0.38
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane		0.11						0.29							
84		56-23-5	Carbon tetrachloride		0.20						0.49							
85		67-66-3	Chloroform		0.77						1.94							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.36						0.90							
89		79-01-6	Trichloroethylene	1.22	124.27	2.96	1.45	2.10	2.89		307.61	4.33	0.56	2.18	4.16	2.39	0.02	0.00
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.89	0.22	0.13	0.12	0.17		2.21	0.54	0.33	0.30	0.41	1.09	0.26	0.36
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.29	0.10	0.05	0.05	0.09		0.72	0.24	0.14	0.14	0.23	0.30	0.13	0.07
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		0.16						0.41							
102		79-92-5	Camphene		0.09						0.23							
103		5989-27-5	Limonene		0.99	0.28		0.09			2.47	0.70		0.22				
104	Acids	64-19-7	Acetic acid		59.94	75.64	18.42	12.31	7.79		149.86	189.10	46.05	30.78	19.48	29529.60	1.62	0.98
105		79-31-2	Isobutyric acid		2.06	2.63	1.03	0.85			5.16	6.59	2.58	2.13		182.45	1.06	0.95
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		0.59				0.34		1.48				0.86			
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		9.38	5.25	1.38	0.86	1.38		23.45	13.13	3.45	2.15	3.46	353.10	1.11	0.73
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime		0.68						1.70							
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	2.6	8.0	5.0	3.9	11.8	10.2		13.5	6.1	3.1	23.1	19.1			
122		50-00-0	Formaldehyde	10.2	14.2	7.1	8.8	1.4	1.2		10.0							
123		123-38-6	Propanal	0.0	1.5	1.0	1.2	0.9	0.0		3.8	2.5	3.0	2.3		4.34	0.14	0.75
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	0.3	0.3	0.7	0.5	0.8		0.6	0.5	1.5	1.1	1.8			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 15: Small-scale chamber concentration and emission factor for EWF1 (engineered wood flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		3.91	1.27	0.94	0.68	1.10		9.77	3.16	2.36	1.71	2.75	5.86	0.22	0.25
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	0.64	3.40	1.53	1.15	1.17	2.04		6.91	2.22	1.28	1.32	3.49			
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.13						0.33							
6		108-95-2	Phenol	0.48	3.72	1.70	1.08	1.03	1.53		8.09	3.05	1.50	1.37	2.61	5.29	0.24	0.14
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.53		0.04				1.33		0.10					
8		67-64-1	Acetone	0.18	9.67	3.84	3.13	2.42	4.26		23.73	9.15	7.39	5.61	10.19	9.96	0.06	0.02
9		98-86-2	Acetophenone	0.10	1.06	0.66	0.44	0.27	0.57		2.42	1.40	0.87	0.45	1.19	3.83	0.37	0.19
10		108-94-1	Cyclohexanone		1.86	1.00	0.64	0.57	0.82		4.66	2.50	1.61	1.42	2.05	4.56	0.23	0.29
11		108-10-1	Methylisobutyl ketone		0.11						0.29							
12		100-52-7	Benzaldehyde	0.15	14.10	5.75	3.13	2.31	3.24		34.87	14.01	7.46	5.40	7.74	67.43	0.53	0.65
13		123-72-8	Butanal		0.40						1.01							
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		0.18						0.46							
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		6.80	1.38	1.23	1.16	1.61		17.00	3.45	3.06	2.90	4.04			
19		124-19-6	Nonanal		1.15		0.12		0.34		2.88		0.30		0.86			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.37						0.92							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.74						1.84							
25		96-14-0	Pentane, 3-methyl-		0.43						1.09							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.87						2.17							
29		112-40-3	Dodecane		0.13	0.06					0.32	0.14						
30		142-82-5	Heptane		0.61						1.52							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.59				0.10		1.48				0.24			
33		111-84-2	Nonane		0.35						0.88							
34		111-65-9	Octane															
35		629-62-9	Pentadecane						0.05						0.13			
36		629-59-4	Tetradecane			0.06						0.15						
37		629-50-5	Tridecane			0.08						0.19						
38		1120-21-4	Undecane		0.27						0.66							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.11				0.02		0.29				0.06			
41		620-14-4	Toluene, 3-ethyl-		0.21				0.05		0.53				0.13			
42		622-96-8	Toluene, 4-ethyl-		0.16				0.03		0.39				0.06			
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.16						0.40							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.47				0.10		1.18				0.26			
47		95-47-6	Benzene, 1,2-dimethyl-		0.32	0.03	0.03		0.05		0.81	0.06	0.07		0.12			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.15	0.02			0.03		0.39	0.05			0.08			
49		108-38-3	Benzene, 1,3-dimethyl-	0.03	1.28	0.08	0.08	0.06	0.14		3.11	0.13	0.13	0.07	0.28			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.11						0.26							
52		100-41-4	Ethylbenzene	0.02	0.37	0.04	0.03	0.03	0.06		0.87	0.04	0.03	0.02	0.10			
53		91-20-3	Naphthalene		0.05	0.03					0.13	0.06						
54		99-87-6	p-Cymene		0.05						0.14							
55		100-42-5	Styrene		0.17	0.08	0.06	0.06	0.09		0.42	0.19	0.16	0.16	0.21			
56		108-88-3	Toluene	0.18	4.85	0.44	0.42	0.36	0.80		11.70	0.67	0.60	0.47	1.55			
57		98-83-9	2-Phenylpropene		0.05						0.12							
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester		1.72	1.33	1.05	0.97	1.77		4.31	3.33	2.62	2.42	4.42			
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol		1.78						4.45							
67		6846-50-0	TXIB	0.16	1.42	0.16	0.11	0.09	0.51		3.16	0.02			0.88			

Table A. 15 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-		1.31	0.62	0.36	0.22	0.42		3.28	1.54	0.91	0.55	1.04	5.80	0.46	0.42
72		111-76-2	Ethanol, 2-butoxy-		3.30	1.08	0.41	0.34	0.53		8.25	2.70	1.01	0.85	1.32	15.64	0.62	0.54
73		112-34-5	Ethanol, 2-butoxyethoxy-		0.74	1.06	0.70	0.48	0.74		1.84	2.65	1.75	1.20	1.84	8.23	0.38	0.50
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.18						0.46							
82		106-46-7	1,4-Dichlorobenzene		0.03						0.08							
83		75-27-4	Bromodichloromethane		0.13						0.32							
84		56-23-5	Carbon tetrachloride		0.20						0.51							
85		67-66-3	Chloroform		0.89						2.23							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.43						1.06							
89		79-01-6	Trichloroethylene	1.79	140.21	1.85	2.12	1.38	5.97		346.04	0.13	0.83		10.45			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.19						0.48							
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-		0.13						0.34							
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.45						1.13							
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.11						0.28							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.62	0.06			0.08		1.55	0.14			0.19			
104	Acids	64-19-7	Acetic acid			1.70						4.25						
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime		0.73						1.82							
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	3.4	5.4	4.2	3.5	9.5	11.3		5.1	2.0	0.2	15.3	19.7			
122		50-00-0	Formaldehyde	8.8	9.8	8.8	7.7	1.3	1.5		2.5	0.1						
123		123-38-6	Propanal	0.0	6.6	0.0	0.9	0.0	0.0		16.4		2.2					
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein		0.3	0.2	0.6	0.3	0.5		0.6	0.4	1.4	0.8	1.3			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 16: Small-scale chamber concentration and emission factor for BAM1 (solid bamboo flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	71.8 h	96 h	0 h	1.5 h	24 h	48 h	71.8 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	0.63	3.41	2.31	1.58	1.51	2.57		6.94	4.20	2.37	2.21	4.84	3.88	0.05	0.01
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	3.23	4.16	4.57	3.08	2.84	5.82		2.32	3.35			6.47			
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.18						0.46							
6		108-95-2	Phenol	0.92	1.72	1.94	1.15	0.83	2.32		2.00	2.54	0.57		3.49			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.47						1.18							
8		67-64-1	Acetone	0.26	13.13	11.66	8.50	9.18	13.53		32.18	28.50	20.61	22.29	33.17			
9		98-86-2	Acetophenone	0.13	0.25	0.17	0.11	0.12	0.40		0.28	0.10			0.66			
10		108-94-1	Cyclohexanone		0.24						0.60							
11		108-10-1	Methylisobutyl ketone		0.12						0.31							
12		100-52-7	Benzaldehyde	0.15	1.12	1.06	0.73	0.62	1.22		2.41	2.27	1.44	1.16	2.66	2.26	0.06	0.01
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		2.92	3.08	1.64	1.32	3.02		7.31	7.71	4.10	3.29	7.55	11.27	0.19	0.07
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		5.11	2.38	1.55	1.55	2.53		12.78	5.95	3.87	3.87	6.32	5.88	0.05	0.01
19		124-19-6	Nonanal		0.98				0.31		2.46				0.79			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.27	0.19					0.68	0.46						
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		0.61						1.53							
25		96-14-0	Pentane, 3-methyl-		0.35						0.88							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane	0.08	0.78	0.10					1.74	0.06						
29		112-40-3	Dodecane			0.05						0.14						
30		142-82-5	Heptane		0.50						1.24							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.52						1.31							
33		111-84-2	Nonane		0.30						0.74							
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane	0.21	0.42	0.24	0.12	0.09	0.14		0.52	0.08						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.04	0.02					0.09	0.05						
40		611-14-3	Toluene, 2-ethyl-		0.10	0.07	0.04	0.04	0.08		0.26	0.17	0.11	0.10	0.20	0.16	0.02	0.00
41		620-14-4	Toluene, 3-ethyl-		0.17	0.10	0.03	0.07	0.13		0.44	0.26	0.08	0.17	0.33			
42		622-96-8	Toluene, 4-ethyl-		0.10	0.06	0.04	0.04	0.08		0.25	0.16	0.11	0.10	0.19			
43		31017-40-0	Cyclohexene, 4-phenyl	0.08	0.09	0.09	0.07	0.06	0.11		0.03	0.02			0.07			
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.12	0.03					0.29	0.07						
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.35	0.09	0.06		0.14		0.87	0.23	0.16		0.34			
47		95-47-6	Benzene, 1,2-dimethyl-		0.29	0.11	0.08	0.07	0.11		0.74	0.26	0.20	0.18	0.27	0.29	0.06	0.03
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.13	0.08	0.05	0.06	0.09		0.32	0.20	0.13	0.14	0.23			
49		108-38-3	Benzene, 1,3-dimethyl-	0.03	1.22	0.43	0.31	0.27	0.43		2.96	0.98	0.69	0.58	0.98	1.24	0.11	0.07
50		98-82-8	Benzene, isopropyl				0.10						0.24					
51		103-65-1	Benzene, propyl-		0.09	0.05	0.03	0.03	0.07		0.22	0.13	0.08	0.09	0.16			
52		100-41-4	Ethylbenzene		0.36	0.20	0.14	0.14	0.22		0.90	0.50	0.35	0.35	0.55	0.45	0.01	0.00
53		91-20-3	Naphthalene	2.14	2.20	2.13	1.49	1.20	2.00		0.16							
54		99-87-6	p-Cymene		0.04						0.11							
55		100-42-5	Styrene		0.11	0.04	0.03		0.06		0.27	0.11	0.07		0.16			
56		108-88-3	Toluene	0.13	7.27	6.64	5.13	4.71	7.90		17.85	16.27	12.51	11.44	19.41			
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene		0.07	0.08			0.07		0.18	0.20			0.18			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.12						0.29							
62		141-78-6	Acetic acid, ethyl ester		0.45	0.46		0.34	0.63		1.12	1.15		0.85	1.56			
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone						1.71						4.27			
66		25265-77-4	Texanol		1.10	0.90	0.73	0.59	1.50		2.75	2.25	1.82	1.47	3.75			
67		6846-50-0	TXIB	1.39	2.12	1.81	1.25	1.10	2.62		1.82	1.06			3.08			

Table A. 16 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	71.8 h	96 h	0 h	1.5 h	24 h	48 h	71.8 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-		0.62	0.70	0.34	0.27	0.40		1.56	1.75	0.85	0.67	1.00	7.48	0.51	0.56
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane		4.64	7.97	6.65	6.15	9.29		11.61	19.91	16.63	15.38	23.22			
81		78-87-5	1,2-Dichloropropane		0.16						0.39							
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride	0.06	0.10						0.10							
85		67-66-3	Chloroform		0.83						2.07							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.36						0.90							
89		79-01-6	Trichloroethylene	1.25	122.39	1.98	1.73	1.44	4.07		302.86	1.82	1.20	0.47	7.06			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.18						0.44							
92		110-82-7	Cyclohexane		0.09						0.23							
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.86	1.50	1.06	0.86	1.26		2.14	3.74	2.65	2.16	3.14	6.79	0.22	0.31
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.11	0.06	0.05	0.03			0.27	0.14	0.13	0.09		0.60	0.43	0.81
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.08						0.21							
103		5989-27-5	Limonene		0.44	0.10					1.09	0.25						
104	Acids	64-19-7	Acetic acid		13.20	47.20	24.78	13.99	24.50		33.00	118.01	61.95	34.98	61.25	794.17	0.64	0.60
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime		0.32						0.81							
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.1 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.1 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	4.2	15.3	16.9	6.1	31.1	27.1		27.7	31.9	4.9	67.4	57.2			
122		50-00-0	Formaldehyde	6.5	13.2	10.9	1.2	3.7	3.3		16.8	11.1						
123		123-38-6	Propanal		1.4	1.7		1.1	1.7		3.4	4.2		2.7	4.1			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.1 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.1 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.0	0.2		0.7	0.2	0.4		0.6		1.7	0.4	1.0			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 17: Small-scale chamber concentration and emission factor for SHV1 (shelving – MDF)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24 h	48 h	72 h	96 h	0 h	1.7 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		2.08	1.32	3.04	2.05	1.69		5.20	3.29	7.59	5.11	4.23	202.40	0.85	0.99
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	2.51	0.90	1.17	2.16	1.15	0.98									
4		67-63-0	2-Propanol		1.88		3.23	3.28	2.65		4.69		8.07	8.21	6.63	22.93	0.26	0.59
5		64-17-5	Ethanol		0.78	0.40		0.24	0.27		1.95	0.99		0.61	0.69	2.64	0.32	0.83
6		108-95-2	Phenol															
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.39	0.28	0.38	0.24	0.29		0.99	0.69	0.94	0.61	0.72	0.89	0.05	0.03
8		67-64-1	Acetone	0.24	14.58	4.57	5.82	5.71	5.73		35.85	10.84	13.97	13.69	13.74	15.39	0.03	0.70
9		98-86-2	Acetophenone															
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone		0.19						0.49							
12		100-52-7	Benzaldehyde		0.27	0.21		0.32	0.21		0.67	0.52		0.79	0.53			
13		123-72-8	Butanal			0.48			0.36			1.20			0.91			
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal					0.22						0.54				
18		66-25-1	Hexanal		19.09	15.48	26.56	28.31	21.39		47.73	38.71	66.39	70.78	53.48	207.78	0.28	0.44
19		124-19-6	Nonanal		0.89		0.67	0.28	0.26		2.23		1.66	0.69	0.65	345.03	1.40	0.87
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal			0.45	1.05	0.56	0.56			1.13	2.61	1.41	1.40	93.73	0.94	0.83
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.61		0.19				1.54		0.48					
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.24						0.61							
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane		0.28		0.12	0.07	0.04		0.69		0.29	0.18	0.11	53.34	1.34	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.10	0.04	0.07	0.05	0.02		0.26	0.11	0.18	0.12	0.06	0.43	0.35	0.24
41		620-14-4	Toluene, 3-ethyl-		0.20		0.13	0.12	0.06		0.50		0.33	0.31	0.16	13.99	0.95	0.74
42		622-96-8	Toluene, 4-ethyl-		0.12		0.09	0.06	0.03		0.30		0.21	0.14	0.07	67.76	1.48	0.96
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.15	0.07	0.14	0.09	0.05		0.38	0.17	0.34	0.22	0.12	0.47	0.22	0.09
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.51	0.21	0.41	0.27	0.13		1.27	0.52	1.03	0.68	0.34	1.45	0.23	0.08
47		95-47-6	Benzene, 1,2-dimethyl-		1.12	0.91	2.33	2.29	1.55		2.79	2.28	5.82	5.72	3.87	52.06	0.55	0.69
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.16		0.11	0.07	0.03		0.40		0.26	0.17	0.07	357.00	1.84	0.93
49		108-38-3	Benzene, 1,3-dimethyl-		2.66	2.39	6.61	6.69	4.50		6.65	5.97	16.52	16.73	11.25			
50		98-82-8	Benzene, isopropyl			0.11		0.09				0.28		0.22				
51		103-65-1	Benzene, propyl-		0.09		0.10	0.08	0.04		0.23		0.24	0.19	0.09	35.86	1.27	0.86
52		100-41-4	Ethylbenzene		0.73	0.73	2.01	2.00	1.40		1.82	1.82	5.02	5.00	3.50	34.82	0.49	0.67
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene		0.11	0.08	0.18	0.10	0.06		0.28	0.21	0.45	0.26	0.16	0.50	0.17	0.05
55		100-42-5	Styrene															
56		108-88-3	Toluene	0.16	3.60	0.64	1.77	1.44	1.02		8.60	1.20	4.04	3.20	2.17	122.62	0.87	0.94
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol			1.57	1.83	2.75	0.70			3.94	4.59	6.86	1.75	12.73	0.30	0.10
67		6846-50-0	TXIB		0.56		0.25	0.14	0.09		1.39		0.62	0.36	0.23	154.97	1.42	1.00

Table A. 17 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24 h	48 h	72 h	96 h	0 h	1.7 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		8.65	14.64	27.35	42.77	27.97		21.62	36.61	68.36	106.92	69.93			
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		0.50						1.25							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	1.09	100.91	1.64	8.55	4.20	2.46		249.53	1.37	18.64	7.77	3.41			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		2.72	1.15	1.51	0.74	0.27		6.80	2.87	3.76	1.85	0.69	76.98	0.93	0.56
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.41	0.28	0.42	0.27	0.11		1.04	0.69	1.05	0.68	0.27	5.59	0.56	0.34
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		0.26						0.65							
102		79-92-5	Camphene					0.09						0.23				
103		5989-27-5	Limonene		2.26	0.32	0.92	0.40	0.47		5.64	0.79	2.30	1.00	1.19	109.21	1.03	0.66
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		1.05		1.60	1.22	0.87		2.62		3.99	3.04	2.17	117.79	0.87	0.97
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide						13.23						33.08			
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.9 h	24.8 h	49.3 h	73.3 h	97.3 h	0 h	2.9 h	24.8 h	49.3 h	73.3 h	97.3 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	41.0	10.5	9.6	7.7	12.6	10.2									
122		50-00-0	Formaldehyde	5.2	9.5	4.0	7.4	7.6	6.7		10.8		5.5	6.0	3.7	14.45	0.25	0.85
123		123-38-6	Propanal	0.6	1.4	1.0	1.1	1.2	1.3		2.1	1.0	1.2	1.5	1.7	1.86	0.07	0.12
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25 h	49.3 h	73.3 h	97.3 h	0 h		25 h	49.3 h	73.3 h	97.3 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.3		1.0	0.9	0.4	1.1									

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 18: Small-scale chamber concentration and emission factor for SHV2 (shelving – particleboard)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.8 h	24 h	48.3 h	72.3 h	96.3 h	0 h	1.8 h	24 h	48.3 h	72.3 h	96.3 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		1.40			0.80			3.49			2.01				
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	2.54	1.71	1.01	1.92	2.48	1.22									
4		67-63-0	2-Propanol		0.78			0.15			1.95			0.39				
5		64-17-5	Ethanol		0.92						2.30							
6		108-95-2	Phenol					0.23						0.58				
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.50		0.05		0.04		1.24		0.12		0.10			
8		67-64-1	Acetone	0.37	34.26	2.05	0.74	2.01	0.90		84.74	4.20	0.92	4.10	1.33	15.23	0.49	0.15
9		98-86-2	Acetophenone															
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		0.12						0.31							
13		123-72-8	Butanal						0.46						1.14			
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		6.46	6.07	8.20	7.68	7.08		16.14	15.17	20.49	19.21	17.70	46.32	0.21	0.97
19		124-19-6	Nonanal		0.70			0.30			1.75			0.74				
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal				0.48	0.41	0.41				1.21	1.03	1.03	3.14	0.25	0.86
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.37						0.93							
29		112-40-3	Dodecane															
30		142-82-5	Heptane		1.23						3.07							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane		0.11						0.28							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.06						0.15							
41		620-14-4	Toluene, 3-ethyl-		0.09						0.21							
42		622-96-8	Toluene, 4-ethyl-		0.05						0.13							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-		0.06			0.02	0.02		0.15			0.05	0.05			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.07						0.18							
49		108-38-3	Benzene, 1,3-dimethyl-		0.27			0.08	0.05		0.68			0.20	0.14			
50		98-82-8	Benzene, isopropyl			0.18						0.46						
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.10		0.03	0.02	0.02		0.25		0.07	0.05	0.05	0.45	0.48	0.66
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene		0.10		0.13	0.13	0.07		0.26		0.33	0.32	0.18	7.78	0.79	0.67
55		100-42-5	Styrene						0.03						0.08			
56		108-88-3	Toluene	0.21	8.32	0.21	0.42	0.38	0.30		20.27		0.51	0.42	0.22	48.69	1.16	0.83
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.27		0.22	0.24	0.07		0.67		0.56	0.61	0.18	238.72	1.51	0.60

Table A. 18 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	24 h	48.3 h	72.3 h	96.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	24 h	48.3 h	72.3 h	96.3 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride		0.30						0.74							
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.50						1.25							
89		79-01-6	Trichloroethylene	1.39	87.90	2.02	3.53	3.85	2.57		216.27	1.57	5.35	6.14	2.94	128.73	0.79	0.49
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.84	1.85	4.99	4.70	3.02		2.10	4.63	12.46	11.76	7.55	192.30	0.69	0.76
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene			0.26	0.63	0.67	0.42			0.66	1.57	1.67	1.05	13.73	0.54	0.54
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene				0.36	0.27	0.19				0.91	0.66	0.47	37.73	0.96	0.98
103		5989-27-5	Limonene		1.41		0.24	0.13	0.11		3.53		0.59	0.32	0.28	42.12	1.11	0.93
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.84		1.12	0.84	0.71		2.09		2.79	2.09	1.78	36.02	0.66	1.00
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide				15.31						38.28					
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	3 h	25.6 h	49.6 h	73.6 h	97.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	3 h	25.6 h	49.6 h	73.6 h	97.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	11.9	9.5	8.9	8.0	9.0	5.0									
122		50-00-0	Formaldehyde	0.0	6.7	6.3	3.4	4.2	5.0		16.8	15.7	8.4	10.4	12.4	19.94	0.14	0.46
123		123-38-6	Propanal	1.0	1.2	1.5	0.9	1.0	0.9		0.4	1.2		0.0		1.13	0.51	0.23
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h		25.6 h	49.6 h	73.6 h	97.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h		25.6 h	49.6 h	73.6 h	97.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	1.1		0.8	0.8	0.2	0.6									

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 19: Small-scale chamber concentration and emission factor for MDF3 (MDF panel)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24.2 h	48 h	72 h	96 h	0 h	1.5 h	24.2 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.46	12.15	13.81	10.38	10.33	9.79		26.73	30.88	22.31	22.18	20.83	71.82	0.28	0.88
2		71-23-8	1-Propanol		0.96	0.94	0.64	0.61			2.39	2.36	1.59	1.53		8.60	0.42	0.92
3		104-76-7	Hexanol, 2-ethyl-1-	5.96	9.45	9.58	7.61	8.06	7.77		8.72	9.05	4.12	5.26	4.53	33.70	0.46	0.61
4		67-63-0	2-Propanol			33.95						84.89						
5		64-17-5	Ethanol		0.54	0.46	0.45	0.31	0.22		1.35	1.15	1.14	0.78	0.55	6.73	0.52	0.76
6		108-95-2	Phenol	1.02	7.35	4.40	4.05	3.78	4.94		15.82	8.45	7.56	6.90	9.80			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.00	0.36	0.32	0.47	0.38		2.49	0.89	0.81	1.17	0.95			
8		67-64-1	Acetone	1.39	175.58	188.26	155.89	149.77	135.10		435.48	467.17	386.25	370.94	334.28	967.34	0.23	0.97
9		98-86-2	Acetophenone	0.29	2.00	2.99	2.19	2.29	1.68		4.26	6.75	4.74	5.00	3.46	25.39	0.42	0.83
10		108-94-1	Cyclohexanone		0.90	0.22	0.16		0.18		2.26	0.55	0.40		0.46	0.78	0.13	0.34
11		108-10-1	Methylisobutyl ketone		0.62	0.26					1.56	0.64						
12		100-52-7	Benzaldehyde	0.41	12.10	21.58	22.02	23.75	23.71		29.23	52.92	54.01	58.35	58.24			
13		123-72-8	Butanal	0.24	12.56	20.64	16.45	16.58	16.54		30.80	51.01	40.51	40.85	40.74	82.63	0.16	0.75
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal		1.71	1.42	1.49	1.75	1.50		4.27	3.55	3.73	4.37	3.74			
16		98-01-1	Furfural		0.79	0.74	0.53	0.56	0.54		1.97	1.85	1.34	1.41	1.34	3.59	0.22	0.74
17		111-71-7	Heptanal		17.39	20.75	18.59	18.96	19.22		43.48	51.88	46.48	47.41	48.06	60.69	0.06	0.50
18		66-25-1	Hexanal	8.08	3803.76	6277.90	5839.45	5901.00	5652.61		9489.21	15674.56	14578.43	14732.30	14111.34	19363.18	0.07	0.86
19		124-19-6	Nonanal	0.52	16.54	15.77	13.15	13.29	13.09		40.06	38.14	31.59	31.93	31.44	57.44	0.14	0.78
20		18829-56-6	2-Nonenal		1.68	1.82	1.21	1.22	1.58		4.21	4.55	3.02	3.05	3.94	6.58	0.15	0.21
21		124-13-0	Octanal		9.96	10.63	9.02	9.20	9.33		24.89	26.58	22.54	23.01	23.32	34.97	0.10	0.60
22		2548-87-0	2-Octenal		16.14	28.04	27.89	31.13	31.04		40.35	70.11	69.72	77.83	77.61			
23		110-62-3	Pentanal	0.33	125.93	211.39	175.44	174.48	168.70		314.00	527.64	437.78	435.39	420.93	858.05	0.16	0.88
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		1.33						3.32							
25		96-14-0	Pentane, 3-methyl-		1.04						2.59							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane	0.07	2.76	0.47	0.27				6.71	0.99	0.50					
29		112-40-3	Dodecane		0.62	0.29	0.25	0.15	0.16		1.55	0.74	0.62	0.38	0.40	3.83	0.51	0.86
30		142-82-5	Heptane		2.10	1.07	0.90	0.90	0.81		5.24	2.68	2.26	2.25	2.03	4.77	0.18	0.93
31		544-76-3	Hexadecane		0.54	0.34	0.27	0.23	0.21		1.34	0.86	0.67	0.57	0.53	2.71	0.36	1.00
32		110-54-3	Hexane		1.74	0.26	0.22	0.22	0.20		4.34	0.66	0.54	0.54	0.50	1.17	0.19	0.91
33		111-84-2	Nonane		0.94	0.18	0.15	0.14	0.11		2.35	0.44	0.37	0.35	0.28	1.16	0.30	0.90
34		111-65-9	Octane		0.66	0.90	0.85	0.85	0.82		1.64	2.26	2.13	2.13	2.04	2.80	0.07	0.92
35		629-62-9	Pentadecane		0.94	0.51	0.39	0.41	0.37		2.36	1.27	0.99	1.04	0.94	2.32	0.20	0.81
36		629-59-4	Tetradecane		1.82	0.90	0.61	0.60	0.45		4.55	2.26	1.53	1.50	1.12	9.82	0.46	0.93
37		629-50-5	Tridecane		0.41	0.26	0.18	0.20	0.17		1.03	0.65	0.46	0.50	0.43	1.51	0.28	0.80
38		1120-21-4	Undecane		1.22	0.19	0.15	0.10	0.08		3.04	0.48	0.37	0.26	0.20	3.83	0.63	0.95
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.07	0.02					0.18	0.06						
40		611-14-3	Toluene, 2-ethyl-		0.30						0.75							
41		620-14-4	Toluene, 3-ethyl-		0.55	0.05	0.03				1.37	0.12	0.07					
42		622-96-8	Toluene, 4-ethyl-		0.33	0.03	0.02				0.83	0.07	0.05					
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene		0.26	0.39	0.32	0.27	0.02		0.65	0.97	0.79	0.66	0.04	524.63	1.82	0.54
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.42	0.12	0.07				1.06	0.29	0.19					
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.27	0.18	0.08	0.05			3.18	0.45	0.21	0.13		15.40	1.11	1.00
47		95-47-6	Benzene, 1,2-dimethyl-	0.03	0.78		0.04				1.88		0.03					
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.43	0.06					1.06	0.14						
49		108-38-3	Benzene, 1,3-dimethyl-	0.08	3.26	0.15	0.12	0.10	0.09		7.93	0.16	0.09	0.04	0.00	437.63	2.34	0.77
50		98-82-8	Benzene, isopropyl			0.07	0.07	0.06	0.05			0.18	0.17	0.14	0.13	0.42	0.26	0.92
51		103-65-1	Benzene, propyl-		0.27	0.05	0.04				0.67	0.12	0.09					
52		100-41-4	Ethylbenzene	0.04	0.92	0.07	0.06	0.07	0.04		2.18	0.08	0.04	0.06		0.20	0.33	0.45
53		91-20-3	Naphthalene		0.17	0.12	0.09	0.08	0.05		0.42	0.29	0.24	0.19	0.13	1.70	0.53	0.91
54		99-87-6	p-Cymene	0.09	0.21	0.11	0.11	0.11	0.11		0.32	0.07	0.05	0.06	0.06	0.09	0.10	0.27
55		100-42-5	Styrene	0.09	0.35	0.57	0.54	0.49	0.46		0.66	1.19	1.14	1.01	0.93	2.15	0.18	0.90
56		108-88-3	Toluene	0.62	18.74	0.70	0.60	0.41	0.34		45.30	0.19						
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol	0.99														
67		6846-50-0	TXIB	1.07	1.75	3.50	1.16	0.78	0.70		1.71	6.08	0.24					

Table A. 19 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24.2 h	48 h	72 h	96 h	0 h	1.5 h	24.2 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		0.44						1.10							
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et		0.34						0.84							
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane		0.10						0.26							
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.43						1.06							
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane		0.33						0.82							
84		56-23-5	Carbon tetrachloride		0.29						0.72							
85		67-66-3	Chloroform		1.56	0.44	0.16	0.12	0.09		3.89	1.10	0.40	0.29	0.24	36.26	1.12	0.97
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.72						1.79							
89		79-01-6	Trichloroethylene	3.59	316.13	5.25	4.16	2.74	3.07		781.37	4.16	1.43					
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene	0.28	2.11	0.55	0.35	0.35	0.28		4.56	0.67	0.17	0.16		49.46	1.39	0.88
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.38	0.14	0.11	0.09	0.09		0.96	0.34	0.28	0.22	0.22	1.11	0.37	0.95
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.24				0.08		0.60				0.20			
103		5989-27-5	Limonene		1.15	0.35	0.22	0.22	0.17		2.87	0.88	0.55	0.55	0.43	3.89	0.48	0.93
104	Acids	64-19-7	Acetic acid		266.69	393.72	336.37	387.38	441.81		666.72	984.30	840.93	968.45	1104.54			
105		79-31-2	Isobutyric acid		6.46	13.91	12.16	15.01	15.98		16.14	34.77	30.40	37.52	39.94			
106		107-92-6	Butyric acid		2.37	4.45	3.58	4.10	4.66		5.91	11.11	8.95	10.24	11.65			
107		111-14-8	Heptanoic acid			1.27	2.31	2.09	2.67			3.18	5.79	5.23	6.67			
108		149-57-5	2-Ethylhexanoic acid			0.46						1.15						
109		142-62-1	Hexanoic acid		52.16	368.83	364.08	377.80	375.62		130.39	922.09	910.21	944.50	939.04			
110		109-52-4	Pentanoic Acid		15.48	71.33	61.86	62.24	63.29		38.70	178.33	154.66	155.61	158.22	231.29	0.09	0.65
111	Other	3777-69-3	Furan, 2-pentyl		11.75	32.15	48.28	41.76	24.76		29.38	80.37	120.69	104.39	61.90	137.15	0.11	0.05
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25.4 h	49.2 h	73.2 h	97.2 h	0 h		25.4 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	4.1		23.8	66.4	93.5	126.4			49.2	155.8	223.4	305.9			
122		50-00-0	Formaldehyde	3.2		44.6	105.8	109.2	106.5			103.5	256.5	265.0	258.4			
123		123-38-6	Propanal	0.6		7.8	17.0	16.6	15.2			18.1	41.0	40.0	36.5			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 2.7 h		
				0 h	2.7 h	25.4 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.4 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.0	2.6	1.1	1.6	1.0	1.1		6.5	2.7	3.9	2.4	2.7	7.92	0.25	0.76

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 20: Small-scale chamber concentration and emission factor for PB7 (particle board)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		2.06	2.67	3.76	6.35	5.08		5.16	6.67	9.39	15.88	12.71			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		0.54	1.38	0.90	1.42	1.15		1.35	3.46	2.26	3.56	2.88	3.70	0.05	0.02
4		67-63-0	2-Propanol		1.24	2.88	4.36	8.71	6.24		3.09	7.20	10.90	21.77	15.59			
5		64-17-5	Ethanol		0.15	0.20	0.24	0.22	0.16		0.39	0.51	0.61	0.56	0.40	0.80	0.11	0.14
6		108-95-2	Phenol		0.26	0.32	0.67	0.44	0.60		0.66	0.81	1.69	1.11	1.49			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.56	0.38	0.49	0.83	0.60		3.90	0.96	1.22	2.09	1.50			
8		67-64-1	Acetone		118.92	200.91	236.30	266.00	197.25		297.29	502.27	590.75	664.99	493.13			
9		98-86-2	Acetophenone		0.17	0.21	0.24	0.25	0.27		0.43	0.53	0.61	0.63	0.68			
10		108-94-1	Cyclohexanone		0.09	0.07		0.09	0.07		0.23	0.17		0.22	0.17			
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		0.75	1.10	1.79	2.89	2.39		1.88	2.75	4.48	7.23	5.96			
13		123-72-8	Butanal		1.19	1.58	2.23	3.83	3.64		2.97	3.94	5.58	9.56	9.09			
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal					0.43	0.50					1.08	1.25			
16		98-01-1	Furfural					0.34	0.31					0.86	0.78			
17		111-71-7	Heptanal		1.75	2.61	2.70	4.51	3.07		4.39	6.52	6.75	11.27	7.68			
18		66-25-1	Hexanal		125.89	234.27	249.51	395.05	319.18		314.72	585.68	623.77	987.63	797.95			
19		124-19-6	Nonanal		3.47	2.78	2.90	3.84	2.68		8.68	6.96	7.25	9.59	6.69			
20		18829-56-6	2-Nonenal					0.40	0.33					1.01	0.83			
21		124-13-0	Octanal		2.03	2.02	2.24	2.94	2.15		5.06	5.06	5.60	7.35	5.36			
22		2548-87-0	2-Octenal		0.58	1.20	1.22	2.35	2.05		1.45	3.00	3.05	5.88	5.13			
23		110-62-3	Pentanal		4.95	8.83	11.19	20.68	17.49		12.39	22.06	27.98	51.69	43.71			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane		0.49	0.03					1.23	0.07						
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.21	0.04	0.03				0.52	0.09	0.09					
29		112-40-3	Dodecane		1.30	0.41	0.22	0.26	0.13		3.25	1.03	0.55	0.66	0.33	9.02	0.68	0.77
30		142-82-5	Heptane		4.31	0.46	0.35	0.39			10.78	1.14	0.87	0.99		1.80	0.16	0.43
31		544-76-3	Hexadecane		0.08			0.07	0.05		0.20			0.17	0.11			
32		110-54-3	Hexane		0.21		0.08	0.10	0.09		0.53		0.20	0.25	0.23			
33		111-84-2	Nonane		0.11		0.06	0.04	0.03		0.27		0.14	0.10	0.07	9.06	1.07	0.98
34		111-65-9	Octane		1.25	0.28	0.22	0.27	0.20		3.13	0.71	0.56	0.68	0.50	1.23	0.18	0.42
35		629-62-9	Pentadecane		0.11	0.08		0.07	0.05		0.28	0.19		0.18	0.11	0.53	0.30	0.61
36		629-59-4	Tetradecane		0.27	0.11	0.07	0.08	0.08		0.68	0.28	0.17	0.21	0.20	0.49	0.21	0.36
37		629-50-5	Tridecane		1.91	0.54	0.37	0.39	0.25		4.78	1.34	0.93	0.97	0.63	6.08	0.47	0.83
38		1120-21-4	Undecane		0.23	0.07					0.57	0.18						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.03						0.07							
41		620-14-4	Toluene, 3-ethyl-		0.04						0.11							
42		622-96-8	Toluene, 4-ethyl-		0.05						0.12							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.04	0.23	0.17	0.07	0.29	0.11		0.47	0.32	0.08	0.62	0.17	0.26	0.03	0.00
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.04			0.01			0.11			0.01				
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.11						0.28							
47		95-47-6	Benzene, 1,2-dimethyl-		0.16	0.06	0.51	0.04	0.03		0.40	0.14	1.27	0.10	0.09	2.06	0.59	0.08
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.06						0.14							
49		108-38-3	Benzene, 1,3-dimethyl-		0.46	0.14	0.43	0.10	0.09		1.16	0.36	1.08	0.25	0.23	2.33	0.45	0.15
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.03						0.06							
52		100-41-4	Ethylbenzene		0.16	0.04	0.11	0.03	0.03		0.39	0.09	0.28	0.08	0.07	0.35	0.29	0.07
53		91-20-3	Naphthalene		0.03			0.02	0.01		0.08			0.04	0.03			
54		99-87-6	p-Cymene		0.53	0.40	0.41	0.42	0.34		1.33	1.00	1.02	1.04	0.85	1.33	0.08	0.25
55		100-42-5	Styrene		0.10	0.05	0.08	0.07	0.07		0.26	0.12	0.19	0.17	0.16			
56		108-88-3	Toluene		10.30						25.74							
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.12	0.04	0.04	0.04	0.03		0.31	0.11	0.09	0.10	0.08	0.20	0.20	0.76

Table A. 20 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e		0.06						0.15							
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		0.12						0.30							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.21						0.51							
89		79-01-6	Trichloroethylene		28.88						72.20							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		21.27	1.37	0.61	0.52	0.27		53.18	3.42	1.52	1.30	0.68	107.20	1.08	0.95
92		110-82-7	Cyclohexane		1.10	0.07					2.75	0.18						
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-		0.53						1.33							
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		3.16	6.66	5.99	8.19	5.67		7.90	16.64	14.98	20.48	14.19	17.71	0.02	0.01
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.38	0.92	0.84	1.25	0.77		0.96	2.30	2.10	3.13	1.93	2.35	0.00	0.00
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		0.17	0.51	0.42	0.65	0.43		0.43	1.28	1.06	1.61	1.07	1.30	0.01	0.00
102		79-92-5	Camphene		0.52	0.35	0.27	0.34	0.25		1.31	0.88	0.67	0.85	0.63	1.47	0.17	0.36
103		5989-27-5	Limonene		0.50	0.55	0.42	0.60	0.43		1.24	1.37	1.05	1.49	1.08	1.68	0.08	0.07
104	Acids	64-19-7	Acetic acid			8.46	20.96	31.34	65.93			21.14	52.40	78.35	164.83			
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid			1.74	1.30	1.31	2.18			4.34	3.26	3.27	5.44			
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.15	0.22	0.24	0.42	0.51		0.39	0.55	0.59	1.04	1.27			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.7	26.2	26.2	10.1	10.2	7.6		61.2	61.3	20.9	21.2	14.6	100.57	0.36	0.67
122		50-00-0	Formaldehyde	0.6	32.4	46.5	19.9	23.2	20.7		79.5	114.9	48.3	56.7	50.3	102.13	0.13	0.29
123		123-38-6	Propanal	0.0	2.2	4.2	2.9	1.7	3.0		5.4	10.4	7.2	4.4	7.6	33.17	0.39	0.41
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.2	1.1	2.4	2.6	2.5	1.9		2.3	5.6	6.1	5.9	4.3	9.54	0.14	0.30

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 21: Small-scale chamber concentration and emission factor for PIN2 (pine wood paneling)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		1.42	1.38	0.88	1.73	1.50		3.54	3.46	2.20	4.32	3.76			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	0.26	0.49	0.40	0.38	0.52	0.53		0.57	0.35	0.31	0.65	0.67			
4		67-63-0	2-Propanol		0.24						0.61							
5		64-17-5	Ethanol															
6		108-95-2	Phenol		0.34	0.21		0.19	0.29		0.85	0.52		0.47	0.73			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.08		0.04	0.05	0.04		0.20		0.10	0.12	0.10			
8		67-64-1	Acetone		9.59	5.01	1.27	6.82	1.53		23.98	12.52	3.18	17.06	3.82	39.85	0.43	0.10
9		98-86-2	Acetophenone	0.27	0.13	0.18	0.09	0.22	0.18									
10		108-94-1	Cyclohexanone		0.06						0.16							
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	0.41	0.32	0.41	0.19	0.38	0.45			0.01			0.10			
13		123-72-8	Butanal		0.36	0.41	0.26	0.39	0.39		0.91	1.03	0.64	0.97	0.98			
14		112-31-2	Decanal		0.53						1.34							
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		0.42	0.85	0.62	1.15	1.15		1.06	2.13	1.54	2.87	2.86			
18		66-25-1	Hexanal		27.87	77.01	61.47	96.03	85.27		69.66	192.52	153.67	240.08	213.17			
19		124-19-6	Nonanal			0.33		0.20	0.15			0.83		0.51	0.37	4.76	0.54	0.96
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		0.10				0.08		0.24				0.21			
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		1.56	3.25	2.87	3.75	3.62		3.89	8.14	7.16	9.38	9.06			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane		0.03						0.09							
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane	0.05	0.19			0.03	0.03		0.34							
29		112-40-3	Dodecane															
30		142-82-5	Heptane		0.18						0.45							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.13						0.32							
33		111-84-2	Nonane		0.11						0.28							
34		111-65-9	Octane		0.05						0.11							
35		629-62-9	Pentadecane		0.06						0.14							
36		629-59-4	Tetradecane		0.10						0.25							
37		629-50-5	Tridecane		0.06						0.15							
38		1120-21-4	Undecane		0.08				0.02		0.20				0.05			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.01						0.02							
40		611-14-3	Toluene, 2-ethyl-		0.03			0.01	0.00		0.06			0.02	0.01			
41		620-14-4	Toluene, 3-ethyl-		0.04			0.02	0.01		0.10			0.04	0.04			
42		622-96-8	Toluene, 4-ethyl-		0.05						0.11							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.08	0.11	0.11	0.23	0.11	0.04		0.07	0.07	0.37	0.07				
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.03						0.09							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.08	0.02			0.02		0.20	0.06			0.05			
47		95-47-6	Benzene, 1,2-dimethyl-	0.56	0.14	0.03	0.04	0.03	0.02									
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.04			0.01	0.01		0.09			0.02	0.02			
49		108-38-3	Benzene, 1,3-dimethyl-	2.22	0.35	0.07	0.11	0.08	0.07									
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.01						0.04							
52		100-41-4	Ethylbenzene	0.38	0.10	0.03	0.05	0.04	0.03									
53		91-20-3	Naphthalene		0.02			0.01			0.04			0.03				
54		99-87-6	p-Cymene		0.04	0.11	0.12	0.19	0.17		0.09	0.28	0.29	0.47	0.43			
55		100-42-5	Styrene		0.07	0.08	0.07	0.08	0.07		0.17	0.20	0.17	0.21	0.18	0.21	0.03	0.05
56		108-88-3	Toluene			0.18			0.38			0.44			0.94			
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB			0.05	0.05	0.04	0.05			0.12	0.12	0.09	0.12	0.17	0.11	0.29

Table A. 21 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.14						0.34							
89		79-01-6	Trichloroethylene		19.25						48.12							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.10						0.25							
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.48	0.99	0.78	0.93	1.06		1.21	2.47	1.94	2.33	2.65			
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.06	0.05	0.04	0.05	0.04		0.15	0.14	0.10	0.12	0.10	0.20	0.14	0.32
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene				0.03	0.03	0.04				0.08	0.08	0.09			
102		79-92-5	Camphene				0.03	0.05	0.04				0.08	0.12	0.09			
103		5989-27-5	Limonene		0.19	0.20	0.20	0.31	0.28		0.47	0.51	0.51	0.76	0.70			
104	Acids	64-19-7	Acetic acid		5.28	9.78	2.31	3.68	7.26		13.20	24.45	5.77	9.20	18.15	41.03	0.30	0.08
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl				0.02	0.04	0.03				0.06	0.09	0.07			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	2.1	7.7	5.1	1.1	0.9	0.7		13.9	7.6						
122		50-00-0	Formaldehyde	1.3	8.0	5.0	2.6	1.6	1.1		16.7	9.1	3.0	0.7		41.01	0.74	0.71
123		123-38-6	Propanal	0.0	0.0	0.0	0.0	0.0	0.0									
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		0.5	0.3	0.2	0.0	0.0		1.2	0.8	0.4	0.1	0.1	2.82	0.65	0.71

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 22: Small-scale chamber concentration and emission factor for PLY4 (plywood panel)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		0.42	0.90		0.77	1.06		1.06	2.24		1.93	2.64			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	0.26	0.36	0.38	0.33	0.42	0.33		0.24	0.29	0.18	0.39	0.17	0.45	0.15	0.05
4		67-63-0	2-Propanol		0.16	0.15					0.41	0.38						
5		64-17-5	Ethanol															
6		108-95-2	Phenol	0.76	0.51	0.63	0.45	0.40	0.55									
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone						0.04						0.09			
8		67-64-1	Acetone		0.48	1.67	0.62	5.51	3.03		1.19	4.18	1.55	13.77	7.57			
9		98-86-2	Acetophenone	0.15	0.16	0.08	0.10	0.11	0.17		0.01				0.04			
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	0.25	0.34	0.20	0.24	0.25	0.35		0.24			0.00	0.25			
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural			0.80	0.60	0.80	0.70			1.99	1.51	2.00	1.75	2.15	0.04	0.04
17		111-71-7	Heptanal		0.17			0.14	0.10		0.42			0.35	0.26			
18		66-25-1	Hexanal		3.85	9.47	9.42	16.12	21.25		9.62	23.67	23.55	40.29	53.12			
19		124-19-6	Nonanal					0.21	0.21					0.52	0.52			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.12	0.33	0.26	0.45	0.52		0.30	0.82	0.64	1.11	1.31			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane		0.03						0.08							
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.16						0.40							
29		112-40-3	Dodecane		0.18	0.03	0.02				0.46	0.09	0.06					
30		142-82-5	Heptane		0.24						0.59							
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.17						0.42							
33		111-84-2	Nonane		0.09						0.22							
34		111-65-9	Octane															
35		629-62-9	Pentadecane		0.06						0.15							
36		629-59-4	Tetradecane		0.10			0.03			0.24			0.06				
37		629-50-5	Tridecane		0.40	0.07	0.04	0.03	0.04		1.00	0.18	0.10	0.07	0.10	0.74	0.49	0.61
38		1120-21-4	Undecane		0.08						0.19							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.02						0.06							
41		620-14-4	Toluene, 3-ethyl-		0.03						0.08							
42		622-96-8	Toluene, 4-ethyl-		0.05						0.12							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.10	0.14	0.18	0.07	0.05	0.08		0.10	0.20						
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.03						0.08							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.08						0.21							
47		95-47-6	Benzene, 1,2-dimethyl-		0.08	0.01		0.01	0.06		0.19	0.04		0.03	0.15			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.03						0.08							
49		108-38-3	Benzene, 1,3-dimethyl-		0.25	0.05	0.03	0.04	0.15		0.62	0.11	0.08	0.09	0.38			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.08	0.02	0.02	0.02	0.06		0.21	0.05	0.04	0.05	0.15			
53		91-20-3	Naphthalene		0.02		0.01				0.06		0.02					
54		99-87-6	p-Cymene		0.05	0.13	0.15	0.24	0.26		0.12	0.33	0.38	0.61	0.64			
55		100-42-5	Styrene		0.05	0.03	0.03	0.04	0.03		0.13	0.08	0.09	0.09	0.08			
56		108-88-3	Toluene		0.05						0.12							
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.04	0.06	0.04	0.04	0.04		0.11	0.15	0.11	0.10	0.10	0.41	0.33	0.95

Table A. 22 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		0.09						0.23							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.18						0.45							
89		79-01-6	Trichloroethylene		24.41						61.03							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.25						0.63							
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene	0.04	0.59	1.37	1.37	1.74	2.14		1.38	3.34	3.33	4.25	5.25			
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.08	0.10	0.10	0.11	0.14		0.21	0.25	0.24	0.28	0.34			
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene			0.05		0.05	0.06			0.12		0.12	0.15			
102		79-92-5	Camphene		0.06		0.09	0.13	0.07		0.15		0.23	0.33	0.18	0.62	0.23	0.07
103		5989-27-5	Limonene		0.20	0.23	0.24	0.33	0.35		0.49	0.57	0.61	0.82	0.89			
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl					0.03	0.03					0.08	0.08			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.7	8.4	10.4	0.1	1.9	3.7		16.8	21.8		0.6	5.0	38.71	0.60	0.38
122		50-00-0	Formaldehyde	1.6	5.8	8.2	0.8	1.0	2.0		10.6	16.7			1.1	24.76	0.50	0.45
123		123-38-6	Propanal	0.0	0.0	0.0	0.0	0.0	0.0									

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.2	0.3	0.2	0.3	0.1	0.1		0.2		0.2					

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 23: Small-scale chamber concentration and emission factor for OSB8 (OSB panel)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	24 h	48.1 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	3.25	6.82	8.04	7.59	9.40	9.30		8.92	11.96	10.85	15.36	15.11			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	9.67	7.71	10.27	7.61	10.08	10.00			1.48		1.02	0.82	5.37	0.40	0.97
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.41	0.30	0.40	0.29	0.21		1.03	0.74	1.00	0.74	0.52	1.80	0.23	0.25
6		108-95-2	Phenol	2.94	6.19	10.90	10.02	10.90	9.63		8.10	19.88	17.70	19.88	16.72	25.79	0.08	0.34
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.66	0.56	0.53	0.69	0.62		1.65	1.39	1.33	1.73	1.56			
8		67-64-1	Acetone	0.37	40.58	49.12	52.67	56.98	53.84		100.54	121.89	130.75	141.52	133.69			
9		98-86-2	Acetophenone	0.19	0.55	0.52	0.83	0.37	0.40		0.90	0.80	1.60	0.45	0.50	5.00	0.48	0.25
10		108-94-1	Cyclohexanone		0.52	0.09					1.29	0.22						
11		108-10-1	Methylisobutyl ketone		0.36						0.89							
12		100-52-7	Benzaldehyde	0.25	0.93	0.82	0.66	0.63	0.53		1.70	1.41	1.02	0.95	0.69	6.30	0.47	0.93
13		123-72-8	Butanal		3.36	5.36	5.96	6.83	6.43		8.40	13.41	14.89	17.08	16.09			
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		0.52	0.59	0.67	0.76	0.69		1.29	1.48	1.67	1.89	1.73			
17		111-71-7	Heptanal		1.63	1.81	1.75	1.99	1.45		4.08	4.52	4.37	4.99	3.64	6.18	0.09	0.16
18		66-25-1	Hexanal		217.01	363.26	386.56	455.66	454.12		542.53	908.16	966.41	1139.16	1135.29			
19		124-19-6	Nonanal		1.61	0.75	0.54	0.64	0.63		4.01	1.86	1.35	1.60	1.58	2.40	0.10	0.23
20		18829-56-6	2-Nonenal			0.46	0.49	0.42				1.14	1.22	1.04		1.42	0.06	0.18
21		124-13-0	Octanal			0.38	0.41	0.40	0.36			0.96	1.02	0.99	0.90	1.08	0.03	0.11
22		2548-87-0	2-Octenal		3.10	3.94	4.42	4.36	4.15		7.75	9.85	11.06	10.91	10.36			
23		110-62-3	Pentanal		12.79	26.82	27.57	32.26	31.58		31.96	67.05	68.94	80.66	78.96			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		1.25						3.13							
25		96-14-0	Pentane, 3-methyl-		0.84						2.10							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.76	0.23	0.20	0.20	0.16		4.41	0.58	0.49	0.49	0.40	1.20	0.23	0.86
29		112-40-3	Dodecane		0.31		0.07				0.77		0.18					
30		142-82-5	Heptane		1.05						2.61							
31		544-76-3	Hexadecane	0.06	2.11	0.29	0.19	0.11	0.12		5.14	0.58	0.34	0.12	0.14	23.15	1.15	0.88
32		110-54-3	Hexane		1.47	0.25	0.10	0.12			3.67	0.63	0.24	0.30		5.82	0.74	0.69
33		111-84-2	Nonane		0.78	0.10	0.11	0.10	0.10		1.96	0.25	0.27	0.26	0.25			
34		111-65-9	Octane		0.25	0.20	0.22	0.15			0.62	0.49	0.54	0.38		0.94	0.19	0.33
35		629-62-9	Pentadecane	0.07	2.24	0.32	0.15	0.12	0.12		5.43	0.64	0.21	0.14	0.13	24.20	1.18	0.95
36		629-59-4	Tetradecane	0.07	1.31	0.26	0.19	0.18	0.13		3.11	0.49	0.32	0.29	0.15	5.87	0.76	0.85
37		629-50-5	Tridecane		0.24	0.06					0.61	0.15						
38		1120-21-4	Undecane		0.73	0.20	0.21	0.18	0.17		1.82	0.51	0.52	0.44	0.43	0.82	0.14	0.70
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.04						0.11							
40		611-14-3	Toluene, 2-ethyl-		0.18	0.02					0.44	0.05						
41		620-14-4	Toluene, 3-ethyl-		0.35	0.03	0.02				0.87	0.07	0.05					
42		622-96-8	Toluene, 4-ethyl-		0.20	0.03					0.49	0.06						
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene			0.12	0.28					0.29	0.70					
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.24	0.03					0.60	0.08						
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.73	0.08	0.05		0.06		1.82	0.20	0.13		0.14			
47		95-47-6	Benzene, 1,2-dimethyl-		0.52	0.04	0.04	0.03			1.30	0.10	0.09	0.07		0.27	0.29	0.85
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.27	0.03	0.02	0.02			0.66	0.07	0.06	0.05		0.19	0.31	0.92
49		108-38-3	Benzene, 1,3-dimethyl-	0.05	2.10	0.14	0.09	0.08	0.06		5.12	0.20	0.09	0.07	0.02	23.88	1.46	0.87
50		98-82-8	Benzene, isopropyl		0.08						0.20							
51		103-65-1	Benzene, propyl-		0.18						0.46							
52		100-41-4	Ethylbenzene	0.03	0.61	0.05	0.05	0.04	0.03		1.46	0.05	0.05	0.03	0.01	0.94	0.86	0.62
53		91-20-3	Naphthalene		0.09	0.02	0.04	0.03			0.23	0.06	0.11	0.07				
54		99-87-6	p-Cymene		0.17	0.05		0.04	0.04		0.43	0.13		0.09	0.10	0.28	0.23	0.84
55		100-42-5	Styrene	0.05	0.21	0.08	0.28	0.13	0.13		0.39	0.06	0.57	0.19	0.19			
56		108-88-3	Toluene	0.40	13.58	0.65	0.53	0.41	0.35		32.94	0.62	0.32	0.01		45251.16	3.38	0.75
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone			2.69	2.28					6.74	5.71					
66		25265-77-4	Texanol	2.48		2.80	1.95	2.35				0.79						
67		6846-50-0	TXIB	5.00	5.07	7.36	4.28	4.72	4.46		0.19	5.91						

Table A. 23 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	24 h	48.1 h	72 h	96 h	a	b	R^2
68	Glycols, Glycolethers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane		0.29						0.73							
82		106-46-7	1,4-Dichlorobenzene		0.04						0.10							
83		75-27-4	Bromodichloromethane		0.16						0.40							
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		1.15	0.09	0.05				2.88	0.23	0.13					
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.51						1.26							
89		79-01-6	Trichloroethylene	2.95	238.19	7.53	4.69	4.19	3.55		588.09	11.45	4.35	3.10	1.50	956.30	1.38	0.97
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane		0.21						0.52							
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.20	0.28	0.23	0.23	0.16		3.01	0.70	0.58	0.57	0.39	2.19	0.35	0.76
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.21	0.08	0.08	0.06	0.05		0.52	0.20	0.20	0.15	0.13	0.57	0.31	0.73
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene		0.19						0.48							
103		5989-27-5	Limonene	0.09	0.90	0.20	0.20	0.15	0.09		2.01	0.27	0.27	0.13		1.73	0.56	0.58
104	Acids	64-19-7	Acetic acid			47.28	74.24	99.80	76.55			118.19	185.60	249.50	191.37			
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid				0.53						1.32					
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		0.41	2.54	3.82	6.11	4.89		1.02	6.36	9.55	15.28	12.23			
110		109-52-4	Pentanoic Acid			0.72	1.01	1.23	0.70			1.81	2.51	3.08	1.75			
111	Other	3777-69-3	Furan, 2-pentyl		8.06	4.72	11.03	12.05	9.02		20.16	11.81	27.58	30.13	22.54			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h		25.2 h	49.3 h	73.3 h	97.2 h	0 h		25.2 h	49.3 h	73.3 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	7.1		43.2	47.6	77.3	54.1			90.4	101.4	175.6	117.6			
122		50-00-0	Formaldehyde	2.9		6.9	6.5	0.0	3.7			10.2	9.0		1.9	668.58	1.23	0.81
123		123-38-6	Propanal	0.6		13.4	14.3	14.0	11.9			32.0	34.3	33.5	28.3	41.32	0.06	0.19
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 2.7 h		
				0 h	2.7 h	25.2 h	49.3 h	73.3 h	97.2 h	0 h	2.7 h	25.2 h	49.3 h	73.3 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.0	0.7	0.6	0.6	0.8	0.8		1.6	1.4	1.5	2.0	2.0			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 24: Small-scale chamber concentration and emission factor for SPR1 (spruce subfloor)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		6.30	5.73	5.74	6.95	6.33		15.74	14.33	14.35	17.38	15.83			
2		71-23-8	1-Propanol		0.56			0.72			1.41			1.81				
3		104-76-7	Hexanol, 2-ethyl-1-	1.66	2.00	2.78	2.23	3.37	2.62		0.84	2.80	1.42	4.27	2.40			
4		67-63-0	2-Propanol		0.44	0.32	0.24				1.11	0.80	0.59					
5		64-17-5	Ethanol		0.22	0.20	0.11	0.13	0.07		0.56	0.49	0.28	0.33	0.17	3.59	0.63	0.75
6		108-95-2	Phenol	0.61	1.09	1.22	1.26	1.25	1.43		1.19	1.52	1.62	1.59	2.03			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		5.61	1.64	0.89	0.81	0.67		14.02	4.10	2.23	2.02	1.68	28.67	0.63	0.96
8		67-64-1	Acetone		38.08	42.28	34.74	43.08	33.75		95.21	105.69	86.84	107.70	84.37	141.82	0.10	0.22
9		98-86-2	Acetophenone	0.09	0.11	0.12	0.15	0.28	0.22		0.06	0.07	0.15	0.48	0.32			
10		108-94-1	Cyclohexanone		0.10				0.04		0.26				0.10			
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	0.19	0.43	0.33	0.49	0.58	0.53		0.58	0.35	0.74	0.97	0.85			
13		123-72-8	Butanal		2.31	2.54	1.99	2.71	2.63		5.77	6.34	4.98	6.77	6.57			
14		112-31-2	Decanal		0.70						1.76							
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		1.20	1.81	1.75	2.47	2.39		3.00	4.52	4.39	6.17	5.99			
17		111-71-7	Heptanal		1.27	1.02	0.85	1.17	0.94		3.17	2.55	2.12	2.91	2.36			
18		66-25-1	Hexanal		277.72	283.60	254.49	305.71	290.08		694.30	709.01	636.23	764.28	725.21			
19		124-19-6	Nonanal	0.31	1.86	0.97	0.61	0.76	0.60		3.86	1.65	0.75	1.11	0.72	6.94	0.49	0.58
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		0.60	0.38	0.28	0.33	0.22		1.50	0.94	0.69	0.82	0.55	2.49	0.31	0.63
22		2548-87-0	2-Octenal		2.03	1.88	1.78	2.47	2.04		5.07	4.69	4.45	6.18	5.09			
23		110-62-3	Pentanal		9.24	10.60	9.43	11.54	11.56		23.10	26.51	23.58	28.84	28.89			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane		0.30	0.09	0.04	0.04			0.74	0.22	0.10	0.10		2.64	0.80	0.84
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.41	0.20	0.19	0.24	0.22		1.03	0.49	0.47	0.60	0.56			
29		112-40-3	Dodecane		0.77	0.79	0.72	0.89	0.80		1.93	1.99	1.80	2.23	2.00			
30		142-82-5	Heptane		3.78	1.03	0.36	0.34			9.46	2.57	0.90	0.84		70.68	1.07	0.90
31		544-76-3	Hexadecane			0.12	0.22	0.13	0.10			0.31	0.55	0.33	0.25	0.66	0.16	0.08
32		110-54-3	Hexane		0.24			0.03			0.60			0.09				
33		111-84-2	Nonane		0.18	0.07		0.05			0.45	0.18		0.12				
34		111-65-9	Octane		1.13	0.37	0.17	0.14	0.12		2.82	0.92	0.43	0.36	0.30	11.42	0.81	0.97
35		629-62-9	Pentadecane	0.10	0.17	0.18	0.36	0.17	0.15		0.16	0.20	0.66	0.17	0.12	1.35	0.45	0.13
36		629-59-4	Tetradecane	0.49	0.85	1.00	1.36	1.08	0.97		0.90	1.27	2.18	1.48	1.21	1.73	0.04	0.01
37		629-50-5	Tridecane		0.21	0.08	0.08	0.07	0.05		0.53	0.19	0.19	0.17	0.13	0.48	0.27	0.67
38		1120-21-4	Undecane		0.17	0.07		0.07	0.08		0.42	0.17		0.18	0.19			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.04	0.01			0.01		0.09	0.02			0.02			
41		620-14-4	Toluene, 3-ethyl-		0.06	0.02		0.01	0.01		0.14	0.04		0.02	0.03	0.10	0.31	0.33
42		622-96-8	Toluene, 4-ethyl-		0.05			0.02			0.13			0.05				
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.24	0.19	0.14	0.09	0.18	0.12									
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.05		0.01	0.01	0.01		0.13		0.03	0.03	0.02	0.16	0.40	0.67
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.15			0.03			0.39			0.07				
47		95-47-6	Benzene, 1,2-dimethyl-		0.21	0.05	0.04	0.04	0.03		0.52	0.12	0.09	0.09	0.07	0.38	0.35	0.91
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.05	0.01		0.01	0.01		0.12	0.02		0.03	0.02	0.03	0.01	0.00
49		108-38-3	Benzene, 1,3-dimethyl-	0.03	0.56	0.11	0.08	0.08	0.06		1.31	0.20	0.11	0.11	0.07	1.65	0.67	0.95
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.03	0.01					0.06	0.02						
52		100-41-4	Ethylbenzene	0.01	0.16	0.03	0.02	0.03	0.02		0.37	0.06	0.03	0.04	0.02	0.50	0.67	0.72
53		91-20-3	Naphthalene		0.04	0.02	0.02	0.03	0.02		0.10	0.06	0.06	0.06	0.05	0.09	0.11	0.33
54		99-87-6	p-Cymene		0.08	0.03	0.03	0.03	0.03		0.20	0.07	0.07	0.07	0.06	0.10	0.10	0.75
55		100-42-5	Styrene		0.12	0.04	0.04	0.06	0.03		0.30	0.11	0.09	0.14	0.07	0.15	0.11	0.06
56		108-88-3	Toluene		12.19	3.23	0.93	0.94	0.45		30.48	8.07	2.33	2.35	1.11	482.86	1.31	0.92
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol	0.34	0.47	0.73	0.52	0.67	0.54		0.34	0.97	0.47	0.82	0.51	2.43	0.33	0.31
67		6846-50-0	TXIB	0.57	0.93	1.15	0.96	1.16	0.93		0.89	1.45	0.95	1.45	0.89	2.82	0.22	0.26

Table A. 24 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene		0.02						0.04							
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		0.13						0.32							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.21						0.51							
89		79-01-6	Trichloroethylene		28.41						71.02							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		15.07	4.91	2.02	1.45	0.91		37.66	12.27	5.05	3.62	2.28	513.29	1.18	0.99
92		110-82-7	Cyclohexane		1.00	0.26	0.12	0.12	0.09		2.50	0.65	0.31	0.29	0.22	6.21	0.73	0.94
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-		0.41	0.16					1.03	0.40						
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.59	0.39	0.35	0.38	0.33		1.47	0.96	0.87	0.95	0.83	1.22	0.08	0.41
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.10	0.08	0.06	0.09	0.06		0.25	0.19	0.16	0.21	0.16	0.22	0.05	0.04
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		0.05	0.04		0.04	0.04		0.14	0.09		0.10	0.10			
102		79-92-5	Camphene		0.08	0.03		0.02	0.02		0.20	0.08		0.05	0.04	0.30	0.42	0.93
103		5989-27-5	Limonene		0.40	0.18	0.18	0.21	0.20		1.00	0.45	0.45	0.52	0.49			
104	Acids	64-19-7	Acetic acid		43.00	130.63	220.08	195.95	242.86		107.50	326.56	550.20	489.88	607.15			
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		0.40	2.35	2.16	3.33	3.00		1.01	5.88	5.40	8.32	7.50			
110		109-52-4	Pentanoic Acid			0.53						1.33						
111	Other	3777-69-3	Furan, 2-pentyl		0.38	0.41	0.21	0.56	0.47		0.94	1.03	0.53	1.40	1.17			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	23.7 h	48.7 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	23.7 h	48.7 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	2.1	14.0	11.0	3.1	3.0	2.6		29.7	22.1	2.5	2.2	1.3	84.41	0.82	0.75
122		50-00-0	Formaldehyde	1.5	5.0	5.4	4.0	1.1	0.9		8.8	9.7	6.2			9.84	0.07	0.26
123		123-38-6	Propanal	0.0	0.0	5.7	2.0	2.3	2.2			14.3	4.9	5.7	5.4	100.83	0.68	0.70
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	23.7 h	48.7 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	23.7 h	48.7 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.3	1.2	0.9	0.7	0.6	0.7		2.1	1.5	0.9	0.6	1.0	2.79	0.28	0.74

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 25: Small-scale chamber concentration and emission factor for IB1 (I-beam; pine block)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	96 h	72.1 h	96 h	0 h	1.5 h	24 h	96 h	72.1 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	3.96	39.08	25.78	15.51	13.63	10.45		19.12	11.88	6.29	5.27	3.53	100.14	0.67	0.78
2		71-23-8	1-Propanol		3.28	1.40	0.78				1.78	0.76	0.42					
3		104-76-7	Hexanol, 2-ethyl-1-	2.75	1.42	1.48	1.55	1.68	1.46									
4		67-63-0	2-Propanol	0.48	12.24	4.90	2.64	2.01	1.54		6.40	2.41	1.18	0.83	0.58	29.01	0.79	0.74
5		64-17-5	Ethanol		25.11	12.50	7.51	2.93	2.12		13.67	6.81	4.09	1.59	1.15	102.39	0.88	0.50
6		108-95-2	Phenol	1.09	154.71	180.71	144.89	142.90	114.13		83.63	97.78	78.28	77.20	61.54	213.28	0.24	0.72
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	0.04	2.18	0.67	0.43	0.33	0.24		1.17	0.34	0.22	0.16	0.11	2.15	0.58	0.66
8		67-64-1	Acetone	0.74	148.45	56.48	34.81	20.13	15.17		80.41	30.35	18.55	10.56	7.86	265.11	0.70	0.59
9		98-86-2	Acetophenone	0.10	0.21	0.30	0.48	0.16	0.10		0.06	0.11	0.21	0.04	0.00	5.51	1.21	0.15
10		108-94-1	Cyclohexanone	0.04														
11		108-10-1	Methylisobutyl ketone		5.78	3.64	2.26	1.60	1.28		3.15	1.98	1.23	0.87	0.70	11.70	0.57	0.68
12		100-52-7	Benzaldehyde	0.18	1.45	1.58	1.16	0.84	0.58		0.69	0.76	0.53	0.36	0.22	4.93	0.59	0.53
13		123-72-8	Butanal		12.69	8.03	4.29	3.76	2.75		6.91	4.37	2.33	2.05	1.50	31.05	0.62	0.83
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal		0.51	0.65	0.48	0.45	0.35		0.28	0.35	0.26	0.25	0.19	0.99	0.33	0.72
16		98-01-1	Furfural		6.76	6.36	4.42	3.90	3.04		3.68	3.46	2.41	2.12	1.66	12.36	0.40	0.75
17		111-71-7	Heptanal		14.93	14.53	11.12	9.84	7.67		8.13	7.91	6.06	5.36	4.18	22.45	0.33	0.67
18		66-25-1	Hexanal		3299.96	2973.93	2061.22	1613.76	1309.39		1796.38	1618.90	1122.06	878.48	712.78	6462.12	0.44	0.68
19		124-19-6	Nonanal		31.63	54.58	45.73	42.60	40.37		17.22	29.71	24.89	23.19	21.98	51.92	0.18	0.80
20		18829-56-6	2-Nonenal		0.65	0.72	0.68	0.59	0.46		0.35	0.39	0.37	0.32	0.25	0.72	0.19	0.39
21		124-13-0	Octanal		4.45	4.61	3.39	3.07	2.52		2.42	2.51	1.84	1.67	1.37	7.18	0.33	0.76
22		2548-87-0	2-Octenal		9.97	11.60	7.74	6.77	5.05		5.43	6.31	4.21	3.69	2.75	26.23	0.45	0.74
23		110-62-3	Pentanal		143.53	101.10	64.69	51.27	40.85		78.14	55.04	35.21	27.91	22.24	265.75	0.50	0.73
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.21						0.11							
25		96-14-0	Pentane, 3-methyl-		0.16						0.09							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.38	0.14					0.21	0.08						
29		112-40-3	Dodecane		1.60	0.46	0.26	0.20	0.14		0.87	0.25	0.14	0.11	0.07	2.00	0.66	0.71
30		142-82-5	Heptane		1.46			0.16	0.12		0.79			0.09	0.07			
31		544-76-3	Hexadecane		0.07	0.12	0.06	0.08	0.07		0.04	0.06	0.03	0.05	0.04	0.26	0.43	0.83
32		110-54-3	Hexane		0.44	0.13	0.12		0.07		0.24	0.07	0.06		0.04	0.16	0.25	0.39
33		111-84-2	Nonane		0.23				0.05		0.12				0.03			
34		111-65-9	Octane		0.58	0.44	0.39	0.29	0.26		0.32	0.24	0.21	0.16	0.14	0.52	0.25	0.46
35		629-62-9	Pentadecane	0.10	0.19	0.15	0.12	0.11	0.10		0.05	0.02	0.01	0.00		0.45	0.97	0.71
36		629-59-4	Tetradecane	0.24	0.51	0.27	0.18	0.13	0.10		0.15	0.02						
37		629-50-5	Tridecane		4.41	1.59	0.88	0.67	0.46		2.40	0.87	0.48	0.36	0.25	7.32	0.68	0.72
38		1120-21-4	Undecane	0.03	0.34						0.17							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.06						0.03							
41		620-14-4	Toluene, 3-ethyl-		0.07						0.04							
42		622-96-8	Toluene, 4-ethyl-		0.06						0.03							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.30	0.59	0.65	0.66	0.35	0.35		0.16	0.19	0.20	0.03	0.03	1.72	0.75	0.22
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.09						0.05							
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-	0.03	0.12	0.03	0.03	0.02	0.02		0.05							
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-	0.08	0.44	0.09	0.07	0.06	0.06		0.19	0.01						
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene	0.06	0.13	0.03	0.03	0.02	0.02		0.04							
53		91-20-3	Naphthalene	0.01	0.04		0.02	0.02	0.01		0.01		0.00	0.00				
54		99-87-6	p-Cymene		17.38	19.46	14.31	16.20	9.97		9.46	10.59	7.79	8.82	5.43	31.37	0.33	0.60
55		100-42-5	Styrene		0.17	0.17	0.20	0.15	0.09		0.09	0.09	0.11	0.08	0.05	0.16	0.17	0.12
56		108-88-3	Toluene	0.45	4.00	2.25	0.91	0.70	0.50		1.93	0.98	0.25	0.14	0.03	272.34	1.77	0.63
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		3.36	1.66	0.82	0.61	0.43		1.83	0.90	0.45	0.33	0.23	9.99	0.76	0.76
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB	1.86	0.82	0.29	0.18	0.18	0.12									

Table A. 25 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	96 h	72.1 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	96 h	72.1 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene		0.02	0.02	0.01	0.01			0.01	0.01	0.01	0.01		0.02	0.24	0.77
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride		0.18						0.10							
85		67-66-3	Chloroform		0.14						0.08							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.20						0.11							
89		79-01-6	Trichloroethylene		34.79	0.43		0.09			18.94	0.24		0.05				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		1.52						0.83							
92		110-82-7	Cyclohexane	0.07														
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		650.53	315.30	257.72	214.60	189.01		354.13	171.64	140.29	116.82	102.89	395.54	0.27	0.63
98		99-86-5	alpha-Terpinene		7.65	8.35	9.74	14.56	10.58		4.17	4.55	5.30	7.93	5.76			
99		127-91-3	beta-Pinene		418.85	200.09	168.53	140.33	117.78		228.01	108.92	91.74	76.39	64.12	246.61	0.26	0.56
100		99-85-4	gamma-Terpinene		2.32	2.69	3.08	3.56	2.78		1.26	1.46	1.68	1.94	1.52			
101		13466-78-9	3-Carene		191.70	131.66	116.72	105.71	87.65		104.35	71.67	63.54	57.54	47.72	131.40	0.19	0.54
102		79-92-5	Camphene		34.07	27.29	23.75	23.91	17.08		18.55	14.85	12.93	13.01	9.30	29.27	0.21	0.47
103		5989-27-5	Limonene		71.42	69.12	51.55	50.57	40.79		38.88	37.63	28.06	27.53	22.21	96.17	0.29	0.80
104	Acids	64-19-7	Acetic acid		915.55	1321.37	905.86	935.53	879.60		498.40	719.31	493.12	509.27	478.83	1777.88	0.29	0.99
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid		2.70	2.29	1.47	1.52	1.33		1.47	1.25	0.80	0.83	0.73	3.89	0.36	0.97
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		20.24	17.69	11.14	10.00	7.32		11.02	9.63	6.07	5.45	3.98	45.25	0.49	0.78
110		109-52-4	Pentanoic Acid		4.20	2.65	1.74	1.75	0.95		2.29	1.44	0.95	0.95	0.52	7.35	0.51	0.62
111	Other	3777-69-3	Furan, 2-pentyl		23.64	25.62	25.28	18.59	21.05		12.87	13.95	13.76	10.12	11.46	18.46	0.10	0.18
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	24.7 h	48.7 h	72.9 h	94.8 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	24.7 h	48.7 h	72.9 h	94.8 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	0.3	816.1	226.7	118.5	79.2	57.1		444.1	123.2	64.3	42.9	30.9	826.50	0.68	0.97
122		50-00-0	Formaldehyde	3.0	52.2	40.8	36.6	33.5	29.4		26.8	20.6	18.3	16.6	14.4	30.95	0.15	0.92
123		123-38-6	Propanal			17.0	8.5	9.6	8.2			9.3	4.6	5.2	4.5	42.04	0.50	0.76
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	24.7 h	48.7 h	72.9 h	94.8 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	24.7 h	48.7 h	72.9 h	94.8 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.4	12.1	7.1	6.0	4.6	5.2		6.4	3.7	3.1	2.3	2.7	7.82	0.25	0.96

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 26: Small-scale chamber concentration and emission factor for IB2 (I-beam; laminate block)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.4 h	24.5 h	48 h	72 h	96 h	0 h	1.4 h	24.5 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	5.77	70.45	51.37	39.50	14.84	33.57		46.74	32.95	24.37	6.55	20.09	297.26	0.70	0.35
2		71-23-8	1-Propanol		12.46	7.93	4.52	1.54	3.77		9.00	5.73	3.26	1.11	2.72	72.75	0.82	0.51
3		104-76-7	Hexanol, 2-ethyl-1-	3.73	6.54	11.19	9.88	3.61	10.11		2.03	5.39	4.45		4.61	7.45	0.11	0.57
4		67-63-0	2-Propanol		167.42	91.33	62.76	20.55	42.10		120.98	66.00	45.35	14.85	30.42	882.40	0.82	0.58
5		64-17-5	Ethanol		91.59	24.03	30.42	15.15	12.35		66.18	17.37	21.98	10.95	8.92	112.73	0.53	0.57
6		108-95-2	Phenol		202.13	238.98	179.24	70.13	170.95		146.07	172.70	129.52	50.68	123.53	815.05	0.51	0.32
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		5.18	2.33	1.46	0.45	1.01		3.75	1.68	1.06	0.33	0.73	27.27	0.88	0.57
8		67-64-1	Acetone		906.68	294.42	215.44	69.92	119.41		655.21	212.76	155.69	50.53	86.29	3635.20	0.88	0.67
9		98-86-2	Acetophenone		0.45	0.16	0.19	0.18	0.15		0.32	0.11	0.14	0.13	0.11	0.12	0.00	0.00
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone		2.53	1.61	1.12	0.46	0.82		1.83	1.16	0.81	0.33	0.59	10.55	0.70	0.60
12		100-52-7	Benzaldehyde	0.16	4.08	3.62	3.20	1.38	2.72		2.84	2.50	2.20	0.88	1.85	10.42	0.45	0.33
13		123-72-8	Butanal		16.58	10.46	6.70	2.39	5.84		11.98	7.56	4.84	1.73	4.22	65.29	0.70	0.45
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal		1.51	1.83	1.12	0.59	1.40		1.09	1.33	0.81	0.43	1.01	4.43	0.42	0.27
16		98-01-1	Furfural		3.74	3.83	2.85	0.61	2.49		2.70	2.77	2.06	0.44	1.80	26.66	0.73	0.28
17		111-71-7	Heptanal		20.22	16.98	14.52	5.90	12.44		14.61	12.27	10.49	4.27	8.99	51.82	0.46	0.34
18		66-25-1	Hexanal		1342.36	1048.25	744.87	309.10	656.83		970.05	757.52	538.28	223.37	474.66	4459.78	0.57	0.43
19		124-19-6	Nonanal		44.40	28.44	39.23	20.06	46.60		32.08	20.55	28.35	14.49	33.67			
20		18829-56-6	2-Nonenal		1.05	1.13	0.83	0.34	0.94		0.76	0.81	0.60	0.24	0.68	2.73	0.41	0.21
21		124-13-0	Octanal		15.06	13.01	12.76	5.18	11.01		10.89	9.40	9.22	3.74	7.96	29.03	0.35	0.23
22		2548-87-0	2-Octenal		7.45	7.36	5.46	1.80	4.71		5.39	5.32	3.95	1.30	3.40	36.36	0.62	0.36
23		110-62-3	Pentanal		89.14	62.63	44.89	16.11	34.29		64.42	45.26	32.44	11.64	24.78	394.01	0.69	0.50
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.35						0.26							
25		96-14-0	Pentane, 3-methyl-		0.21						0.15							
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.65			0.29			0.47			0.21				
29		112-40-3	Dodecane		2.22	0.63	0.39	0.25	0.30		1.61	0.45	0.28	0.18	0.22	3.20	0.63	0.84
30		142-82-5	Heptane		2.81	1.12	1.15	0.40	0.94		2.03	0.81	0.83	0.29	0.68	2.90	0.40	0.22
31		544-76-3	Hexadecane		0.21	0.24	0.18	0.08	0.19		0.15	0.17	0.13	0.06	0.13	0.61	0.42	0.27
32		110-54-3	Hexane		0.72	0.25	0.27	0.10	0.23		0.52	0.18	0.20	0.07	0.16	0.54	0.33	0.17
33		111-84-2	Nonane		0.25	0.12	0.13	0.07	0.10		0.18	0.09	0.10	0.05	0.07	0.24	0.29	0.41
34		111-65-9	Octane		1.48	1.29	1.21	0.47	1.07		1.07	0.93	0.88	0.34	0.77	3.12	0.38	0.24
35		629-62-9	Pentadecane	0.11	0.61	0.67	0.51	0.19	0.57		0.36	0.40	0.28	0.06	0.33	2.53	0.62	0.17
36		629-59-4	Tetradecane	0.54	1.31	1.51	1.23	0.55	1.36		0.56	0.70	0.50	0.01	0.59	34.10	1.28	0.13
37		629-50-5	Tridecane		4.46	1.64	0.97	0.32	0.65		3.22	1.18	0.70	0.23	0.47	21.62	0.92	0.64
38		1120-21-4	Undecane		0.60	0.13					0.44	0.09						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.07						0.05							
41		620-14-4	Toluene, 3-ethyl-		0.09			0.02			0.06			0.01				
42		622-96-8	Toluene, 4-ethyl-		0.08			0.01			0.06			0.01				
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.42	0.86	0.44	0.66	0.42	0.42		0.32	0.01	0.17					
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.08		0.02		0.02		0.06		0.02		0.01			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.26	0.03					0.19	0.02						
47		95-47-6	Benzene, 1,2-dimethyl-		0.18	0.01		3.99			0.13	0.01		2.88				
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-		0.71	0.11	0.07	16.81	0.07		0.52	0.08	0.05	12.15	0.05			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.05	0.01		0.03			0.04	0.01		0.02				
52		100-41-4	Ethylbenzene		0.19	0.02	0.01	3.42	0.02		0.14	0.01	0.01	2.47	0.01			
53		91-20-3	Naphthalene		0.07	0.02	0.02	0.01	0.01		0.05	0.01	0.01	0.01	0.01	0.10	0.57	0.72
54		99-87-6	p-Cymene		1.95	1.12	1.00	0.28	0.58		1.41	0.81	0.72	0.20	0.42	9.27	0.75	0.49
55		100-42-5	Styrene	0.07	0.15	0.05	0.06		0.06		0.06							
56		108-88-3	Toluene	0.54	3.75	0.36	0.31	0.16	0.23		2.32							
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		5.49	2.85	2.01	0.67	1.22		3.97	2.06	1.45	0.48	0.88	31.62	0.85	0.64
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol	1.21	2.83	3.35	2.53	1.07	3.23		1.17	1.54	0.95		1.45	1.50	0.04	0.01
67		6846-50-0	TXIB	1.47	2.85	2.69	2.11	0.85	2.67		1.00	0.88	0.47		0.87	0.73	0.01	0.00

Table A. 26 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.4 h	24.5 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.4 h	24.5 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane		0.07						0.05							
84		56-23-5	Carbon tetrachloride		0.18						0.13							
85		67-66-3	Chloroform		0.20						0.14							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.27						0.19							
89		79-01-6	Trichloroethylene		49.67	0.46		0.40			35.90	0.33		0.29				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		2.13						1.54							
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		41.01	21.98	13.53	5.65	12.16		29.64	15.88	9.78	4.08	8.79	122.78	0.67	0.49
98		99-86-5	alpha-Terpinene		0.58						0.42							
99		127-91-3	beta-Pinene		23.68	10.67	6.09	2.88	5.89		17.11	7.71	4.40	2.08	4.25	54.74	0.65	0.51
100		99-85-4	gamma-Terpinene		0.25						0.18							
101		13466-78-9	3-Carene		7.89	1.77	0.96	0.26	0.40		5.70	1.28	0.69	0.19	0.29	88.27	1.32	0.81
102		79-92-5	Camphene		2.55	1.58	1.30	0.29	0.64		1.84	1.15	0.94	0.21	0.46	27.24	0.97	0.56
103		5989-27-5	Limonene		9.79	5.28	4.53	1.33	2.58		7.08	3.82	3.27	0.96	1.87	47.56	0.78	0.54
104	Acids	64-19-7	Acetic acid		361.27	1405.46	915.07	438.90	1102.06		261.07	1015.65	661.27	317.17	796.40	3454.15	0.42	0.25
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid		1.41	1.30	0.51				1.02	0.94	0.37					
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		1.39	10.88	6.46	2.23	6.83		1.00	7.86	4.67	1.61	4.94	56.37	0.66	0.34
110		109-52-4	Pentanoic Acid		0.95	3.12	1.65		1.68		0.68	2.26	1.19		1.22	8.53	0.45	0.72
111	Other	3777-69-3	Furan, 2-pentyl		15.05	8.17	11.56	1.65	7.31		10.87	5.90	8.36	1.20	5.28	37.60	0.55	0.14
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	25.3 h	48.7 h	72.8 h	94.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	25.3 h	48.7 h	72.8 h	94.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde		86.1	38.6	27.6	35.1	18.8		62.2	27.9	20.0	25.3	13.6	86.93	0.38	0.98
122		50-00-0	Formaldehyde	6.7	23.2	19.2	16.7	30.5	14.6		11.9	9.1	7.2	17.2	5.7	13.52	0.14	0.55
123		123-38-6	Propanal	0.4	19.2	9.9	7.2	8.5	5.0		13.6	6.9	4.9	5.8	3.3	18.97	0.36	0.97
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	25.3 h	48.7 h	72.8 h	94.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	25.3 h	48.7 h	72.8 h	94.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.2	4.4	3.6	3.3	3.8	2.8		3.0	2.4	2.2	2.5	1.8	3.28	0.10	0.65

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 27: Small-scale chamber concentration and emission factor for ACT5 (acoustical ceiling tile)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		3.68	1.75	1.80	1.67	1.34		9.19	4.38	4.50	4.16	3.34	7.79	0.16	0.53
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	1.03	1.55	2.11	2.57	2.08	2.14		1.29	2.69	3.83	2.62	2.76	3.27	0.03	0.01
4		67-63-0	2-Propanol		0.21						0.53							
5		64-17-5	Ethanol															
6		108-95-2	Phenol	0.24	0.60	1.43	0.97	0.85	0.67		0.92	2.99	1.83	1.54	1.07	27.96	0.70	0.98
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone			0.07	0.09	0.05	0.05			0.17	0.22	0.13	0.11	0.51	0.31	0.41
8		67-64-1	Acetone	0.29	2.69	0.52	1.37	0.61	0.65		6.02	0.59	2.72	0.81	0.92			
9		98-86-2	Acetophenone	0.18	0.14	0.15	0.12	0.19	0.08					0.01				
10		108-94-1	Cyclohexanone		0.18						0.45							
11		108-10-1	Methylisobutyl ketone		0.57						1.41							
12		100-52-7	Benzaldehyde	0.18	0.20	0.29	0.22	0.26	0.18		0.04	0.26	0.08	0.18		0.86	0.46	0.18
13		123-72-8	Butanal															
14		112-31-2	Decanal		0.76		0.76				1.90		1.89					
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural				0.28	0.26	0.28				0.70	0.64	0.69	0.77	0.03	0.05
17		111-71-7	Heptanal		0.41			0.08			1.02			0.20				
18		66-25-1	Hexanal		7.12	2.33	1.94	1.84	1.63		17.81	5.82	4.85	4.60	4.07	12.64	0.24	0.98
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		0.21	0.19					0.52	0.47						
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.09	0.11	0.12	0.10			0.23	0.26	0.31	0.26				
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.07						0.19							
25		96-14-0	Pentane, 3-methyl-		0.09						0.23							
26		540-84-1	2,2,4-Trimethylpentane					0.04						0.09				
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.38	0.10	0.07	0.04			0.95	0.25	0.17	0.10		3.15	0.78	0.96
29		112-40-3	Dodecane		0.28	0.11	0.06	0.04			0.71	0.29	0.14	0.11		4.40	0.87	0.98
30		142-82-5	Heptane		0.14						0.36							
31		544-76-3	Hexadecane		0.05			0.08	0.07		0.13			0.19	0.18			
32		110-54-3	Hexane		0.15						0.38							
33		111-84-2	Nonane		0.12		0.04		0.04		0.30		0.09		0.10			
34		111-65-9	Octane															
35		629-62-9	Pentadecane		0.09	0.14	0.21	0.22	0.15		0.22	0.36	0.53	0.55	0.38			
36		629-59-4	Tetradecane		0.23	0.36	0.37	0.30	0.23		0.58	0.89	0.91	0.76	0.57	2.44	0.29	0.66
37		629-50-5	Tridecane		0.14	0.10	0.10	0.06	0.04		0.35	0.26	0.24	0.14	0.09	2.83	0.71	0.80
38		1120-21-4	Undecane		0.31						0.78							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.03						0.08							
40		611-14-3	Toluene, 2-ethyl-		0.12						0.30							
41		620-14-4	Toluene, 3-ethyl-		0.27	0.02		0.01			0.69	0.05		0.01				
42		622-96-8	Toluene, 4-ethyl-		0.23	0.01					0.57	0.03						
43		31017-40-0	Cyclohexene, 4-phenyl		0.01						0.02							
44		71-43-2	Benzene	0.35	0.34	0.33	0.28	0.48	0.33					0.33				
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.11						0.26							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.60	0.03		0.01			1.51	0.07		0.03				
47		95-47-6	Benzene, 1,2-dimethyl-	0.07	0.23	20.71	0.05	0.04	0.32		0.40	51.61			0.65			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.17	0.01					0.43	0.02						
49		108-38-3	Benzene, 1,3-dimethyl-	0.22	0.79	114.29	0.15	0.12	0.93		1.44	285.19			1.79			
50		98-82-8	Benzene, isopropyl			0.13			0.01			0.34			0.02			
51		103-65-1	Benzene, propyl-		0.10						0.24							
52		100-41-4	Ethylbenzene	0.05	0.20	20.29	0.05	0.04	0.33		0.37	50.59			0.69			
53		91-20-3	Naphthalene		0.20	0.05	0.02	0.01	0.01		0.49	0.12	0.06	0.03	0.03	3.29	1.05	0.95
54		99-87-6	p-Cymene		0.04						0.10							
55		100-42-5	Styrene	0.04	0.07	2.39	0.03	0.03	0.06		0.07	5.87			0.06			
56		108-88-3	Toluene	0.10	1.14	0.21	0.13	1.43	0.12		2.61	0.28	0.09	3.33	0.06	0.35	0.07	0.00
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.35						0.88							
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone				1.90	1.55	1.48				4.74	3.87	3.71	19.11	0.36	0.93
66		25265-77-4	Texanol															
67		6846-50-0	TXIB	0.06	0.10	0.17	0.19	0.08	0.06		0.11	0.26	0.31	0.04		50.04	1.55	0.54

Table A. 27 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-			0.31	0.33	0.20	0.24			0.77	0.83	0.51	0.60	1.88	0.26	0.48
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-		0.14						0.35							
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride		0.14						0.34							
85		67-66-3	Chloroform		0.11						0.27							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.11						0.27							
89		79-01-6	Trichloroethylene		21.96						54.90							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.04						0.10							
92		110-82-7	Cyclohexane		0.03						0.07							
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.11						0.28							
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.03						0.08							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.33						0.82							
104	Acids	64-19-7	Acetic acid			16.88	8.27	7.29	7.12			42.21	20.67	18.23	17.79	293.41	0.64	0.89
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl				0.18	0.20	0.14				0.45	0.49	0.34	2.03	0.37	0.43
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane			0.09	0.16	0.16	0.17			0.22	0.40	0.41	0.42			
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.1	2.3	2.0	1.8	1.2	1.0		2.8	2.3	1.6	0.2		5.61	0.49	0.46
122		50-00-0	Formaldehyde	0.4	4.1	7.4	8.4	7.1	6.4		9.1	17.5	19.9	16.7	14.9	26.78	0.11	0.32
123		123-38-6	Propanal	0.0	0.0	0.0	0.7	0.6	0.0				1.8	1.4				

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1			0.2	0.5	0.0				0.2	0.9				

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 28: Small-scale chamber concentration and emission factor for INS2 (insulation board)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.29	9.57	8.03	9.02	8.32	7.55		20.71	16.84	19.33	17.59	15.64	20.38	0.04	0.08
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	1.03	13.18	7.47	7.00	5.72	4.81		30.38	16.09	14.93	11.72	9.44	56.19	0.37	0.85
4		67-63-0	2-Propanol		0.23						0.57							
5		64-17-5	Ethanol															
6		108-95-2	Phenol		0.69	0.89		0.93			1.74	2.22		2.33				
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.07		0.03	0.02	0.02		0.17		0.08	0.05	0.05	0.83	0.62	0.53
8		67-64-1	Acetone		4.35	1.68	1.30	0.31	0.25		10.87	4.20	3.24	0.78	0.63	574.81	1.48	0.85
9		98-86-2	Acetophenone	0.10	0.31	0.22	0.25	0.24	0.13		0.53	0.31	0.37	0.36	0.08	3.89	0.70	0.34
10		108-94-1	Cyclohexanone		0.06						0.15							
11		108-10-1	Methylisobutyl ketone		0.55						1.38							
12		100-52-7	Benzaldehyde	0.18	8.24	4.85	3.39	2.66	1.90		20.13	11.67	8.01	6.20	4.29	108.86	0.69	0.96
13		123-72-8	Butanal		0.14		0.15				0.36		0.37					
14		112-31-2	Decanal		2.70						6.75							
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		0.33						0.83							
18		66-25-1	Hexanal		2.06			0.33			5.15			0.83				
19		124-19-6	Nonanal		2.83						7.08							
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		0.27						0.67							
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		0.11	0.11					0.28	0.27						
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		1.25	0.69	0.38	0.36	0.25		3.11	1.73	0.94	0.90	0.62	14.78	0.68	0.94
25		96-14-0	Pentane, 3-methyl-		0.22	0.11		0.03	0.02		0.54	0.28		0.08	0.05	14.87	1.25	0.99
26		540-84-1	2,2,4-Trimethylpentane			0.07						0.17						
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.31	0.07	0.30	0.04	0.02		0.76	0.18	0.76	0.10	0.04	15.02	1.16	0.31
29		112-40-3	Dodecane		0.08						0.20							
30		142-82-5	Heptane		0.17						0.43							
31		544-76-3	Hexadecane			0.04	0.04					0.11	0.11					
32		110-54-3	Hexane		0.28	0.20					0.70	0.51						
33		111-84-2	Nonane		0.14		0.27				0.34		0.66					
34		111-65-9	Octane															
35		629-62-9	Pentadecane	0.13	0.27	0.23	0.18	0.16	0.14		0.36	0.26	0.14	0.07	0.03	25.43	1.40	0.94
36		629-59-4	Tetradecane	0.65	1.03	1.06	0.82	0.71	0.68		0.95	1.03	0.42	0.16	0.08	382.57	1.82	0.97
37		629-50-5	Tridecane		0.05						0.12							
38		1120-21-4	Undecane		0.23						0.58							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.01						0.03							
40		611-14-3	Toluene, 2-ethyl-		0.09						0.24							
41		620-14-4	Toluene, 3-ethyl-		0.22	0.02	0.02				0.55	0.05	0.05					
42		622-96-8	Toluene, 4-ethyl-		0.16	0.02	0.02				0.40	0.06	0.06					
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.14	0.76	1.12	0.65	0.52	0.57		1.54	2.45	1.28	0.95	1.07	18.05	0.66	0.87
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.07						0.18							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.42	0.04	0.03				1.06	0.11	0.07					
47		95-47-6	Benzene, 1,2-dimethyl-	0.04	0.16	0.07	5.42	0.32			0.30	0.07	13.43	0.69				
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.15	0.02	0.01				0.37	0.04	0.03					
49		108-38-3	Benzene, 1,3-dimethyl-	0.12	0.63	0.16	30.11	2.37	0.09		1.29	0.10	74.98	5.63				
50		98-82-8	Benzene, isopropyl				0.05						0.13					
51		103-65-1	Benzene, propyl-		0.08	0.02	0.03				0.20	0.04	0.08					
52		100-41-4	Ethylbenzene	0.02	3.22	2.25	5.92	1.75	1.12		8.00	5.57	14.74	4.31	2.74	49.48	0.55	0.22
53		91-20-3	Naphthalene	0.01	0.10	0.03	0.02				0.23	0.04	0.01					
54		99-87-6	p-Cymene		0.03						0.07							
55		100-42-5	Styrene	0.04	15.67	11.18	8.16	6.20	5.41		39.10	27.87	20.32	15.41	13.44	154.83	0.53	0.99
56		108-88-3	Toluene	0.04	1.30	3.05	0.24	0.19	0.17		3.17	7.54	0.51	0.37	0.33	7623.27	2.30	0.87
57		98-83-9	2-Phenylpropene		0.03						0.08							
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.38						0.94							
62		141-78-6	Acetic acid, ethyl ester	0.10					0.17						0.17			
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol	1.35	2.10	2.84	1.64	1.53	1.74		1.87	3.71	0.72	0.43	0.97	111.45	1.18	0.60
67		6846-50-0	TXIB	1.32	2.58	2.96	2.00	1.63	1.49		3.17	4.10	1.72	0.78	0.42	777.31	1.62	0.98

Table A. 28 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-		0.17		0.02	0.02	0.02		0.41		0.06	0.04	0.04	0.96	0.71	0.95
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride		0.18						0.44							
85		67-66-3	Chloroform		0.10						0.26							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		0.13						0.32							
89		79-01-6	Trichloroethylene		25.85	0.56					64.61	1.41						
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.04						0.11							
92		110-82-7	Cyclohexane		0.05						0.12							
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.14						0.34							
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.04						0.09							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.49						1.24							
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane				0.07						0.19					
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.0	4.9	2.1	2.8	0.0	2.7		9.6	2.6	4.4		4.2	9.70	0.24	0.50
122		50-00-0	Formaldehyde	4.9	11.0	10.8	4.4	5.4	5.9		15.3	14.8		1.2	2.5	34.48	0.59	0.62
123		123-38-6	Propanal	0.5	0.0	0.0	0.0	0.0	0.0									

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	24.7 h	49.3 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	1.0	1.0		0.0											

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 29: Small-scale chamber concentration and emission factor for PT9 (acrylic interior paint; zero VOC)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3.3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.19	129.15	20.58	6.97	4.17	2.57	2.58	2.13		319.89	48.46	14.43	7.45	3.43	3.48	2.33	91.15	0.81	0.95
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	4.03	9.94	5.76	4.87	3.96	3.14	3.47	3.13		14.79	4.32	2.09							
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		0.82	0.88	0.50						2.05	2.21	1.26							
6		108-95-2	Phenol	0.35	4.31	2.51	2.72	1.68	1.17	0.96	0.55		9.88	5.40	5.92	3.33	2.05	1.51	0.49	15.39	0.60	0.79
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.41	0.36							3.53	0.90								
8		67-64-1	Acetone	0.71	42.33	17.18	6.87	0.68	0.43	0.37	0.31		104.07	41.19	15.42							
9		98-86-2	Acetophenone	0.31	0.76	0.66	0.79	0.18	0.19	0.09	0.17		1.11	0.87	1.21							
10		108-94-1	Cyclohexanone		0.65								1.62									
11		108-10-1	Methylisobutyl ketone		1.03								2.58									
12		100-52-7	Benzaldehyde	0.29	15.04	5.77	3.93	0.95	0.64	0.44	0.34		36.87	13.70	9.11	1.66	0.88	0.38	0.13	83.10	1.29	0.96
13		123-72-8	Butanal		5.03	3.37	1.78						12.58	8.43	4.44							
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal		3.22	1.82		0.74	0.44	0.39	0.33		8.04	4.54		1.86	1.09	0.96	0.82	8.61	0.51	0.99
18		66-25-1	Hexanal		36.07	17.23	13.78	7.25	3.83	2.95	2.12		90.18	43.08	34.44	18.11	9.59	7.37	5.30	100.28	0.61	0.97
19		124-19-6	Nonanal		3.42	1.28		0.51			0.30		8.56	3.19		1.28			0.76	5.21	0.43	1.00
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		3.86	2.51	2.09	0.70	0.32		0.14		9.65	6.28	5.23	1.75	0.80		0.36	21.36	0.86	0.98
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		1.20								3.01									
25		96-14-0	Pentane, 3-methyl-		19.47	4.19	1.39	0.45					48.67	10.48	3.47	1.12				30.88	1.07	0.95
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		1.92	0.52		0.09	0.04				4.80	1.30		0.23	0.11			3.91	0.91	1.00
29		112-40-3	Dodecane		0.41								1.03									
30		142-82-5	Heptane		1.60								4.00									
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		1.30	0.37							3.24	0.93								
33		111-84-2	Nonane																			
34		111-65-9	Octane		0.86								2.14									
35		629-62-9	Pentadecane		0.46	0.32		0.17	0.11	0.09	0.10		1.14	0.80		0.43	0.28	0.23	0.25	1.27	0.38	0.96
36		629-59-4	Tetradecane		0.48			0.13	0.11	0.10	0.08		1.20			0.33	0.26	0.26	0.21	0.81	0.29	0.89
37		629-50-5	Tridecane		0.16								0.39									
38		1120-21-4	Undecane	0.03	0.72	0.33	0.23	0.07					1.70	0.73	0.49	0.08				3.33	1.17	0.98
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-		0.73	0.38	0.27	0.10	0.04	0.04	0.03		1.83	0.95	0.68	0.24	0.10	0.09	0.06	2.75	0.82	0.99
41		620-14-4	Toluene, 3-ethyl-		2.82	1.59	1.11	0.37	0.13	0.10	0.06		7.04	3.97	2.77	0.92	0.33	0.24	0.15	14.83	0.97	0.98
42		622-96-8	Toluene, 4-ethyl-		3.50	1.78	1.25	0.38	0.12	0.07	0.05		8.75	4.45	3.13	0.95	0.30	0.17	0.12	20.54	1.10	0.98
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.24								0.60									
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.72	0.78	0.48	0.20	0.10	0.07	0.05		4.30	1.96	1.19	0.50	0.24	0.17	0.13	5.25	0.80	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		0.84	0.37	0.25	0.05	0.02				2.10	0.91	0.63	0.13	0.05			3.86	1.09	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.32	0.13		0.02	0.01	0.02	0.01		0.79	0.33		0.06	0.03	0.05	0.03	0.64	0.68	0.89
49		108-38-3	Benzene, 1,3-dimethyl-	0.02	4.86	2.44	1.74	0.33	0.11	0.08	0.06		12.10	6.04	4.30	0.76	0.21	0.14	0.08	37.11	1.31	0.99
50		98-82-8	Benzene, isopropyl		6.51	3.71	3.02	0.90	0.35	0.22	0.15		16.27	9.28	7.56	2.24	0.87	0.55	0.36	37.76	0.98	0.98
51		103-65-1	Benzene, propyl-		6.60	3.79	2.81	0.77	0.26	0.15	0.10		16.50	9.47	7.03	1.93	0.64	0.38	0.24	45.18	1.11	0.98
52		100-41-4	Ethylbenzene	0.02	1.83	0.91	0.60	0.10	0.03	0.02	0.02		4.54	2.23	1.46	0.20	0.03	0.01		27.86	1.77	0.96
53		91-20-3	Naphthalene		0.61	0.23	0.38	0.08	0.03	0.02	0.03		1.53	0.57	0.95	0.21	0.08	0.05	0.06	2.44	0.83	0.91
54		99-87-6	p-Cymene		0.19								0.48									
55		100-42-5	Styrene	0.05	6.05	3.11	1.99	0.36	0.10		0.08		15.02	7.66	4.86	0.77	0.13		0.08	53.73	1.45	0.98
56		108-88-3	Toluene	0.23	9.09	2.37	0.96	0.13	0.06	0.08	0.08		22.14	5.35	1.80							
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		0.22								0.54									
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester		40.25	11.17	4.80	1.38	0.55	0.36	0.24		100.62	27.92	11.99	3.45	1.38	0.91	0.60	98.62	1.10	1.00
62		141-78-6	Acetic acid, ethyl ester		2.47	0.76							6.18	1.89								
63		80-62-6	Methyl methacrylate		1.48	0.97							3.70	2.43								
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		3.73	3.07		2.49	1.28	0.65	0.65		9.33	7.67		6.21	3.20	1.62	1.62	16.91	0.48	0.78
67		6846-50-0	TXIB	0.25	1.77	0.85	1.21	0.42	0.30	0.27	0.32		3.79	1.49	2.40	0.42	0.13	0.05	0.18	7.72	0.99	0.82

Table A. 29 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3.3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3.3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		0.56								1.41									
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		56.17	11.78	4.01	1.31	0.60	0.62	0.55		140.43	29.45	10.02	3.27	1.49	1.54	1.38	63.10	0.89	0.96
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		0.37								0.92									
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane		0.23								0.58									
84		56-23-5	Carbon tetrachloride		0.15								0.37									
85		67-66-3	Chloroform		1.52	0.31							3.80	0.78								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane		0.35								0.87									
88		127-18-4	Tetrachloroethylene		0.46								1.14									
89		79-01-6	Trichloroethylene	3.12	215.18	47.50	11.95	2.43	1.05	1.52	1.14		530.13	110.93	22.07							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.81	0.22							2.03	0.55								
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene		0.14								0.35									
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		3.11	0.80	0.31			0.10			7.78	1.99	0.76			0.24		3.19	0.62	0.92
104	Acids	64-19-7	Acetic acid		69.90			11.20	3.71	2.56			174.75			28.00	9.27	6.39		2102.89	1.37	0.98
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		1.58								3.95									
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		4.43	1.51	0.83						11.08	3.79	2.08							
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		159.48	75.56	55.87	17.21	7.29	4.45	2.57		398.69	188.90	139.68	43.02	18.23	11.13	6.44	747.87	0.98	0.98
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	5.4	28.7	19.7	14.0	9.9	9.9	7.9	4.5		58.1	35.7	21.5	11.1	11.2	6.0		66.01	0.52	0.93
122		50-00-0	Formaldehyde	8.6	62.2	45.4	40.5	38.1	38.6	29.5	22.6		134.0	91.9	79.7	73.5	74.9	52.1	34.9	131.25	0.22	0.66
123		123-38-6	Propanal	0.6	5.4	4.3	3.3				0.8		12.0	9.1	6.6				0.3	10.69	0.75	1.00
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		0.8	0.8	0.6	0.1	0.3	0.2	0.4		2.0	1.9	1.6	0.1	0.8	0.4	1.0	2.17	0.34	0.23

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 30: Small-scale chamber concentration and emission factor for PT10 (latex interior paint)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		399.95	69.10	18.06	6.01	3.35	2.95	3.09		999.87	172.76	45.14	15.03	8.39	7.38	7.72	318.41	0.89	0.94
2		71-23-8	1-Propanol		2.28								5.70									
3		104-76-7	Hexanol, 2-ethyl-1-	1.02	48.04	16.50	10.60	3.09	2.48	3.59	2.93		117.54	38.71	23.95	5.18	3.65	6.43	4.78	68.37	0.64	0.84
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		18.78	6.55	3.38	0.31					46.96	16.39	8.44	0.77				115.37	1.56	0.99
6		108-95-2	Phenol		3.52	5.22	3.38	1.71	0.89	0.79	0.60		8.80	13.04	8.44	4.28	2.22	1.97	1.50	27.19	0.62	0.99
7	Aldehydes & ketones	78-93-3	Methylethyl ketone		1.51	0.36	0.19						3.78	0.89	0.46							
8		67-64-1	Acetone	0.33	183.02	57.30	19.99	0.84	0.51	0.49	0.31		456.71	142.42	49.15	1.27	0.44	0.39		1527.88	2.05	0.98
9		98-86-2	Acetophenone	0.20	1.20	0.59	0.84	0.35	0.30	0.17	0.12		2.50	0.96	1.60	0.36	0.23			3.03	0.65	0.82
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		0.62	0.22							1.55	0.54								
12		100-52-7	Benzaldehyde	0.22	24.01	8.82	6.49	1.32	0.66	0.46	0.30		59.48	21.48	15.67	2.74	1.09	0.59	0.19	139.74	1.32	0.96
13		123-72-8	Butanal		7.40	4.06	2.79						18.50	10.16	6.96							
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal		4.90	2.48	1.90	0.96	0.31		0.42		12.24	6.21	4.76	2.41	0.78		1.05	13.27	0.61	0.89
18		66-25-1	Hexanal		50.45	23.93	19.32	9.31	3.98	2.28	2.34		126.12	59.82	48.30	23.28	9.95	5.69	5.84	169.46	0.74	0.96
19		124-19-6	Nonanal		3.54	1.84	1.59	0.59			0.32		8.86	4.60	3.98	1.48			0.79	9.37	0.33	0.90
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal		1.68								4.20									
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		5.73	3.44	2.86	0.99	0.26	0.20	0.15		14.33	8.59	7.15	2.48	0.64	0.50	0.37	35.62	0.98	0.96
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		1.61								4.02									
25		96-14-0	Pentane, 3-methyl-		107.05	20.61	5.70	2.27					267.62	51.51	14.24	5.67				131.61	1.03	0.91
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.03	2.78	0.88	0.51	0.10	0.05	0.08	0.04		6.87	2.13	1.19	0.18	0.03	0.11	0.02	10.86	1.32	0.89
29		112-40-3	Dodecane		1.44	0.51							3.59	1.29								
30		142-82-5	Heptane		1.81								4.52									
31		544-76-3	Hexadecane					0.10								0.26						
32		110-54-3	Hexane		1.98	0.53							4.95	1.34								
33		111-84-2	Nonane																			
34		111-65-9	Octane		1.01	0.46							2.53	1.16								
35		629-62-9	Pentadecane		0.31			0.17		0.11			0.77			0.43		0.27				
36		629-59-4	Tetradecane		0.73	0.36		0.22	0.12	0.15	0.12		1.84	0.91		0.54	0.30	0.37	0.30	1.36	0.33	0.90
37		629-50-5	Tridecane		0.59								1.47									
38		1120-21-4	Undecane		0.84	0.32		0.14					2.09	0.81		0.36						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet																			
40		611-14-3	Toluene, 2-ethyl-		0.33	0.13				0.02			0.84	0.31				0.05				
41		620-14-4	Toluene, 3-ethyl-		1.64	0.74	0.42	0.07	0.04	0.06			4.09	1.85	1.04	0.19	0.09	0.15		5.22	0.95	0.92
42		622-96-8	Toluene, 4-ethyl-		1.03	0.48	0.33	0.04		0.03			2.57	1.20	0.83	0.11		0.09		3.58	0.93	0.93
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		0.22								0.55									
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.26	0.11				0.02			0.64	0.26				0.06				
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.72	0.24				0.05			1.81	0.59				0.12				
47		95-47-6	Benzene, 1,2-dimethyl-		5.90	2.65	1.72	0.20	0.07				14.76	6.62	4.31	0.51	0.18			40.70	1.39	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.28	0.09		0.01		0.02			0.70	0.23		0.03		0.06		0.32	0.49	0.58
49		108-38-3	Benzene, 1,3-dimethyl-	0.03	17.40	8.08	4.91	0.41	0.10		0.04		43.42	20.13	12.20	0.95	0.18		0.03	310.21	1.96	0.98
50		98-82-8	Benzene, isopropyl		13.95	6.51	4.50	0.69	0.22	0.11	0.07		34.87	16.27	11.25	1.73	0.55	0.27	0.17	109.26	1.38	0.99
51		103-65-1	Benzene, propyl-		13.03	6.07	3.84	0.55	0.14	0.08	0.04		32.58	15.17	9.61	1.38	0.35	0.20	0.09	117.90	1.50	0.99
52		100-41-4	Ethylbenzene	0.01	7.71	3.40	1.92	0.15	0.03				19.25	8.47	4.76	0.34	0.04			119.25	1.97	0.97
53		91-20-3	Naphthalene		0.28		0.18	0.06	0.02		0.02		0.70		0.44	0.15	0.05		0.05	2.10	0.88	0.93
54		99-87-6	p-Cymene		0.37		0.16						0.93		0.41							
55		100-42-5	Styrene	0.05	29.18	12.84	7.38	0.71	0.15	0.12	0.07		72.85	32.00	18.33	1.66	0.27	0.18	0.06	404.32	1.86	0.98
56		108-88-3	Toluene	0.20	11.02	3.15	1.18	0.27	0.12	0.11	0.09		27.04	7.37	2.45	0.16				71.17	1.91	1.00
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		0.82	0.36	0.29	0.08					2.04	0.91	0.72	0.19				2.64	0.81	0.97
59	Esters	108-21-4	Acetic acid, 1-methylethyl																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		59.65	13.14	5.17	1.41	0.43	0.37	0.19		149.13	32.85	12.94	3.52	1.08	0.93	0.49	125.61	1.19	0.99
62		141-78-6	Acetic acid, ethyl ester		0.65								1.61									
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		3.71	1.44	1.20	0.27					9.28	3.61	2.99	0.68				11.62	0.87	0.96
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		24.76	14.87	21.75	21.97	12.43	8.36	6.30		61.91	37.18	54.38	54.94	31.08	20.90	15.76	73.66	0.26	0.51
67		6846-50-0	TXIB	0.18	1.57	1.15	0.92	0.55	0.51	0.37	0.36		3.47	2.43	1.84	0.91	0.82	0.46	0.44	4.49	0.50	0.97

Table A. 30 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		4.68								11.70									
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		314.45	59.23	17.44	7.02	2.78	2.64	2.24		786.13	148.08	43.61	17.55	6.96	6.61	5.59	321.76	0.93	0.96
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		0.33								0.82									
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane		0.22								0.56									
84		56-23-5	Carbon tetrachloride		0.24								0.60									
85		67-66-3	Chloroform		1.55	0.34							3.88	0.86								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.49								1.21									
89		79-01-6	Trichloroethylene	2.96	210.03	47.81	8.88	3.41	1.42	1.64	1.43		517.66	112.12	14.78	1.11				1167.85	2.23	0.98
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.91	0.32							2.27	0.81								
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene		0.20								0.51									
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		15.61	7.93	6.45	1.43	0.36	0.40	0.19		39.03	19.82	16.14	3.58	0.91	1.00	0.47	96.29	1.13	0.97
104	Acids	64-19-7	Acetic acid		102.86	61.26	32.03	19.15					257.14	153.16	80.06	47.88				255.30	0.54	0.92
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		2.72	1.35							6.79	3.39								
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane		4.72	1.14		0.41					11.80	2.85		1.02						
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		575.54	203.98	102.63	22.19	8.67	4.51	2.34		1438.85	509.96	256.58	55.47	21.67	11.27	5.84	2531.14	1.27	0.99
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	6.3	55.9	34.3	21.2	12.6	10.0	8.0	3.9		124.0	70.2	37.4	15.8	9.4	4.3		220.75	0.86	0.97
122		50-00-0	Formaldehyde	12.0	34.3	29.4	30.6	26.3	28.9	19.7	18.7		55.9	43.5	46.6	35.8	42.4	19.2	16.9	69.06	0.23	0.54
123		123-38-6	Propanal		7.5	5.8	4.0	1.8					18.7	14.6	10.1	4.6				33.50	0.62	1.00
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	0 h	2.2 h	3.9 h	6.8 h	24.7 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein		1.4	0.6	0.5	0.5	0.7	0.4	0.4		3.6	1.6	1.2	1.2	1.8	0.9	0.9	1.71	0.10	0.26

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 31: Small-scale chamber concentration and emission factor for PT11 (acrylic interior paint; low odor)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96.4 h	0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96.4 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	0.65	1274.25	218.80	39.77	12.57	6.27	4.67	3.71		3184.00	545.37	97.80	29.80	14.05	10.04	7.64	1292.59	1.15	0.96
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	2.68	11.46	6.09	4.72	3.32	3.03	2.65	2.40		21.96	8.51	5.09	1.59	0.89			22.47	0.83	1.00
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		1.72	1.23							4.31	3.06								
6		108-95-2	Phenol	0.40	5.44	6.05	3.86	2.18	1.72	1.55	0.74		12.60	14.12	8.65	4.45	3.31	2.88	0.86	31.10	0.65	0.86
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.54	0.38	0.11	0.06					3.84	0.96	0.28	0.15				1.87	0.83	0.85
8		67-64-1	Acetone	0.73	407.51	100.80	30.63	3.20	1.57	0.99	0.96		1016.94	250.16	74.74	6.18	2.10	0.64	0.57	1992.08	1.81	1.00
9		98-86-2	Acetophenone	0.45	1.02	1.63	1.10	0.34	0.29	0.13	0.17		1.44	2.95	1.63							
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		0.45								1.12									
12		100-52-7	Benzaldehyde	0.29	6.46	3.33	3.01	0.87	0.52	0.32	0.25		15.43	7.61	6.81	1.46	0.59	0.10		52.45	1.28	0.89
13		123-72-8	Butanal		14.78	5.58	3.55						36.95	13.96	8.88							
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal			2.78	1.78	0.96	0.63		0.40			6.95	4.46	2.40	1.59		1.01	12.69	0.54	0.99
18		66-25-1	Hexanal		56.54	24.03	15.68	9.79	4.83	3.39	3.31		141.36	60.07	39.20	24.47	12.08	8.48	8.27	122.13	0.59	0.97
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal		1.87			0.47					4.69			1.19						
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		6.58	3.72	2.62	1.16	0.46	0.27			16.46	9.30	6.54	2.89	1.14	0.67		27.56	0.82	0.96
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		1.46								3.65									
25		96-14-0	Pentane, 3-methyl-		32.87	5.81	0.99	0.36					82.18	14.52	2.47	0.90				42.31	1.27	0.87
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		1.90	0.72	0.42	0.11	0.12	0.09	0.06		4.76	1.81	1.05	0.27	0.29	0.22	0.16	3.52	0.68	0.95
29		112-40-3	Dodecane		0.77	0.43							1.91	1.09								
30		142-82-5	Heptane		1.84	0.69							4.60	1.73								
31		544-76-3	Hexadecane		0.51	0.47	0.33	0.33	0.26	0.25	0.18		1.27	1.19	0.83	0.82	0.66	0.62	0.44	1.45	0.22	0.83
32		110-54-3	Hexane		1.43	0.53							3.58	1.32								
33		111-84-2	Nonane																			
34		111-65-9	Octane		1.01	0.65							2.52	1.63								
35		629-62-9	Pentadecane		0.33				0.11		0.09		0.82				0.27		0.22			
36		629-59-4	Tetradecane		2.95	2.31	1.75	0.90	0.50	0.27	0.24		7.37	5.77	4.38	2.26	1.25	0.68	0.60	14.29	0.67	0.96
37		629-50-5	Tridecane		0.17								0.43									
38		1120-21-4	Undecane		1.39								3.48									
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet		0.09								0.23									
40		611-14-3	Toluene, 2-ethyl-		0.40	0.18	0.11	0.04		0.02			1.00	0.44	0.27	0.11		0.05		0.96	0.70	1.00
41		620-14-4	Toluene, 3-ethyl-		2.03	1.01	0.61	0.19	0.06	0.06			5.07	2.52	1.53	0.47	0.16	0.15		8.10	0.95	0.98
42		622-96-8	Toluene, 4-ethyl-		1.45	0.80	0.57	0.11	0.05	0.04			3.63	2.01	1.41	0.28	0.12	0.10		7.53	1.04	0.99
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.25	0.11							0.62	0.26								
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.80	0.26	0.16						2.01	0.66	0.40							
47		95-47-6	Benzene, 1,2-dimethyl-		1.59	0.70	0.43	0.10	0.03				3.98	1.75	1.06	0.24	0.07			7.82	1.17	0.98
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.50	0.20	0.12	0.05	0.02	0.03	0.02		1.25	0.51	0.30	0.13	0.06	0.09	0.05	1.00	0.65	0.95
49		108-38-3	Benzene, 1,3-dimethyl-		11.94	5.98	3.96	0.63	0.14	0.06	0.04		29.84	14.96	9.90	1.57	0.35	0.16	0.10	121.52	1.51	0.98
50		98-82-8	Benzene, isopropyl		14.17	8.01	5.84	1.67	0.55	0.24	0.12		35.43	20.03	14.61	4.17	1.38	0.61	0.30	112.69	1.20	0.95
51		103-65-1	Benzene, propyl-		11.16	6.61	4.34	1.10	0.30	0.14	0.06		27.90	16.53	10.84	2.75	0.76	0.34	0.16	107.44	1.33	0.96
52		100-41-4	Ethylbenzene		3.19	1.56	0.95	0.16	0.03		0.01		7.97	3.90	2.38	0.39	0.07		0.04	25.67	1.43	0.98
53		91-20-3	Naphthalene	0.02	0.20	0.16		0.08					0.44	0.35		0.15						
54		99-87-6	p-Cymene		0.20								0.51									
55		100-42-5	Styrene	0.07	4.87	2.62	1.44	0.29	0.10	0.06	0.05		12.00	6.39	3.44	0.57	0.08			48.79	1.56	0.96
56		108-88-3	Toluene	0.22	33.16	12.91	5.54	0.60	0.16	0.09	0.10		82.35	31.73	13.30	0.96				265.37	1.75	0.99
57		98-83-9	2-Phenylpropene		0.18								0.46									
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		62.16	12.99	3.27	1.06	0.51	0.26	0.27		155.41	32.47	8.17	2.66	1.27	0.65	0.69	84.89	1.10	0.97
62		141-78-6	Acetic acid, ethyl ester		0.59								1.47									
63		80-62-6	Methyl methacrylate		25.95	6.12	2.67	0.39					64.86	15.31	6.67	0.97				75.03	1.36	1.00
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol							1.18	0.92							2.96	2.29			
67		6846-50-0	TXIB	0.22	0.82	0.48	0.53	2.12	0.26	0.22	0.20		1.50	0.64	0.78	4.75	0.11	0.00		7.17	1.16	0.36

Table A. 31 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96.4 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3.2 h	6 h	24 h	48 h	72 h	96.4 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		1.62								4.05									
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		95.93	16.64	2.71	1.17	0.49	0.50	0.44		239.84	41.60	6.77	2.92	1.23	1.25	1.09	71.69	0.98	0.91
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		0.24								0.60									
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane		0.24								0.59									
84		56-23-5	Carbon tetrachloride		0.19								0.47									
85		67-66-3	Chloroform	0.05	1.50	0.32							3.63	0.67								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.42								1.06									
89		79-01-6	Trichloroethylene	2.88	199.62	40.35	8.81	4.50	1.55	1.55	1.62		491.84	93.67	14.83	4.04				345.12	1.45	0.91
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.72								1.81									
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene		0.13								0.33									
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		5.63	2.42	1.42	0.57	0.26	0.25			14.08	6.05	3.54	1.43	0.66	0.64		14.01	0.75	0.99
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		1.47	1.57							3.67	3.91								
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane		6.60	2.25							16.51	5.63								
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		481.40	195.48	112.20	27.11	11.58	6.26	4.11		1203.50	488.71	280.51	67.78	28.94	15.66	10.28	2016.55	1.12	0.99
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.9 h	6.7 h	24.7 h	49.2 h	73.2 h	97.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.9 h	6.7 h	24.7 h	49.2 h	73.2 h	97.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	7.6	33.3	26.5	24.8	9.7	11.2	10.2	4.8		64.2	47.0	42.8	5.3	8.8	6.3		132.17	0.76	0.82
122		50-00-0	Formaldehyde	10.0	33.2	27.6	23.6	24.6	27.4	26.5	9.0		58.1	44.0	34.1	36.5	43.5	41.2				
123		123-38-6	Propanal	0.9	8.4	8.5	4.7	0.0	1.3				18.5	19.0	9.4		1.0					

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.9 h	6.7 h	24.7 h	49.2 h	73.2 h	97.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.9 h	6.7 h	24.7 h	49.2 h	73.2 h	97.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		0.9	0.6	0.7	0.3	0.2	0.4	0.2		2.2	1.5	1.8	0.7	0.5	0.9	0.6	2.38	0.30	0.66

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 32: Small-scale chamber concentration and emission factor for PT12 (acrylic latex interior paint; low VOC)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.49	265.82	81.97	27.17	10.16	8.63	8.08	6.57	0.00	660.81	201.18	64.19	21.66	17.84	16.47	12.69	317.97	0.73	0.93
2		71-23-8	1-Propanol		3.55	1.32							8.88	3.29								
3		104-76-7	Hexanol, 2-ethyl-1-	3.64	21.80	18.29	15.20	10.22	8.21	10.25	11.25	0.00	45.41	36.64	28.91	16.46	11.43	16.52	19.02	43.41	0.25	0.68
4		67-63-0	2-Propanol		41.62	16.19	6.97	2.31	0.78	0.65	0.27		104.05	40.47	17.43	5.77	1.96	1.64	0.67	141.79	1.10	0.98
5		64-17-5	Ethanol		129.26	52.23	20.86	2.35	0.19				323.14	130.56	52.16	5.88	0.47			1506.23	1.95	0.96
6		108-95-2	Phenol	2.15	12.68	11.72	192.15	10.62	8.10	6.64	5.83	0.00	26.32	23.92	475.02	21.17	14.88	11.23	9.20	222.60	0.68	0.42
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.70	0.49	0.39	0.08	0.07	0.05	0.05		1.76	1.23	0.97	0.20	0.17	0.13	0.13	2.79	0.71	0.95
8		67-64-1	Acetone	0.34	64.99	31.51	10.37	3.11	1.38	1.65	1.66	0.00	161.62	77.94	25.08	6.91	2.61	3.29	3.29	165.36	0.95	0.94
9		98-86-2	Acetophenone	0.06	1.98	1.30	24.53	1.53	0.41	0.48	0.27	0.00	4.79	3.10	61.17	3.68	0.88	1.06	0.53	42.80	0.89	0.53
10		108-94-1	Cyclohexanone				0.56								1.41							
11		108-10-1	Methylisobutyl ketone		0.57								1.43									
12		100-52-7	Benzaldehyde	0.17	11.05	5.97	16.16	2.12	0.93	0.86	0.78	0.00	27.19	14.50	39.98	4.88	1.89	1.72	1.51	77.10	0.88	0.84
13		123-72-8	Butanal		7.18	6.62	3.59	1.51	0.66	0.47	0.53		17.94	16.54	8.98	3.78	1.64	1.17	1.34	38.25	0.78	0.98
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural				1.19								2.97							
17		111-71-7	Heptanal		3.95	3.99		1.47	1.29	1.13	0.93		9.88	9.97		3.69	3.21	2.82	2.32	15.20	0.41	0.98
18		66-25-1	Hexanal		39.86	34.87	23.75	17.60	8.53	6.56			99.66	87.17	59.38	43.99	21.32	16.40		157.81	0.50	0.94
19		124-19-6	Nonanal			3.32			0.86	1.11	1.13			8.31			2.15	2.78	2.82	11.60	0.35	0.86
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal		1.65					0.47			4.13					1.16				
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		3.83	3.86	3.02	1.29	0.59	0.26	0.24		9.56	9.66	7.54	3.22	1.47	0.64	0.59	31.30	0.84	0.95
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		10.61	7.57	3.80	0.93	0.52	0.39	0.30		26.51	18.94	9.51	2.32	1.31	0.96	0.74	51.54	0.94	1.00
29		112-40-3	Dodecane		1.02	1.10	0.61						2.55	2.74	1.52							
30		142-82-5	Heptane		1.22		2.16						3.04		5.40							
31		544-76-3	Hexadecane					0.26	0.17							0.66	0.42					
32		110-54-3	Hexane		0.97		3.02						2.42		7.55							
33		111-84-2	Nonane				4.57		0.26	0.24					11.42		0.64	0.61		101.94	1.25	0.98
34		111-65-9	Octane			0.70	2.48							1.76	6.19							
35		629-62-9	Pentadecane	0.56	0.70	0.94	1.01	0.86	0.75	0.74	0.60	0.00	0.35	0.95	1.11	0.74	0.45	0.43	0.10	2.39	0.50	0.64
36		629-59-4	Tetradecane	2.82	3.86	4.03	4.46	4.19	3.60	3.66	3.62	0.00	2.61	3.02	4.10	3.43	1.96	2.11	1.99	4.62	0.18	0.61
37		629-50-5	Tridecane	0.15	0.47	0.54	0.59	0.30	0.28		0.23	0.00	0.80	0.98	1.10	0.38	0.33		0.22	1.99	0.48	0.94
38		1120-21-4	Undecane		3.43	2.30	1.30	0.44	0.20	0.16	0.10		8.59	5.75	3.26	1.10	0.50	0.41	0.24	16.19	0.89	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-		0.18	0.09							0.46	0.22								
41		620-14-4	Toluene, 3-ethyl-		0.38	0.15							0.94	0.37								
42		622-96-8	Toluene, 4-ethyl-		0.18	0.11							0.44	0.28								
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene				166.55								416.38							
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.36	0.15							0.90	0.37								
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.58	0.29							1.45	0.73								
47		95-47-6	Benzene, 1,2-dimethyl-	0.04	2.41	1.02	0.46	0.15	0.07		0.06	0.00	5.94	2.44	1.06	0.29	0.07		0.05	8.94	1.16	0.98
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.24	0.13	0.11						0.61	0.33	0.28							
49		108-38-3	Benzene, 1,3-dimethyl-	0.18	10.80	4.29	1.62	0.70	0.26	0.10	0.22	0.00	26.55	10.27	3.61	1.31	0.22		0.10	46.10	1.31	0.97
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-		0.19	0.13	0.41						0.47	0.32	1.03							
52		100-41-4	Ethylbenzene	0.05	2.87	1.18	0.67	0.20	0.07		0.07	0.00	7.06	2.83	1.55	0.39	0.07		0.06	11.87	1.19	0.96
53		91-20-3	Naphthalene	0.12								0.00										
54		99-87-6	p-Cymene		39.83	23.75	10.00	2.88	1.29	0.79	0.50		99.56	59.37	25.01	7.21	3.23	1.97	1.24	193.23	1.08	1.00
55		100-42-5	Styrene		1.24	0.90	5.69	0.20		0.11	0.08		3.11	2.24	14.22	0.49		0.27	0.19	19.04	1.00	0.72
56		108-88-3	Toluene	0.15	8.01	3.21	4.23	0.57	0.21	0.15	0.38	0.00	19.64	7.65	10.20	1.06	0.16		0.56	35.37	1.09	0.78
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		1.96	1.55	0.90						4.90	3.87	2.26							
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	1.24	27191.5	30023.2	22296.4	9233.3	5567.3	4252.7	3124.0	0.00	67975.6	75054.8	55737.9	23080.1	13915.1	10628.6	7807.0	1.7E+05	0.65	0.99
67		6846-50-0	TXIB	4.36	63.50	56.46	47.13	27.29	20.17	16.17	15.67	0.00	147.85	130.25	106.92	57.33	39.52	29.52	28.29	233.75	0.46	0.99

Table A. 32 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycolEthers	57-55-6	1,2-Propanediol		26718.1	33023.4	20998.9	4765.4	2758.9	2086.6	1475.3		66795.3	82558.5	52497.3	11913.6	6897.3	5216.6	3688.1	2.4E+05	0.91	1.00
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		26.56	12.62	4.48	0.91	0.49	0.69	0.63		66.41	31.56	11.21	2.28	1.23	1.72	1.57	61.69	0.90	0.91
73		112-34-5	Ethanol, 2-butoxyethoxy-		3345.51	4452.75	3709.79	1132.17	469.17	256.11	142.37		8363.78	11131.89	9274.47	2830.41	1172.93	640.28	355.91	4.6E+04	0.99	0.96
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		103.44	33.53	12.45	4.46	3.49	2.46	1.65		258.59	83.83	31.11	11.16	8.73	6.15	4.13	162.70	0.79	0.97
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.38	0.13							0.95	0.33								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	2.28	82.22	22.52	7.17	6.55	3.57	0.97	4.62	0.00	199.85	50.60	12.23	10.67	3.23		5.84	63.42	0.62	0.75
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		1.30	0.88							3.25	2.21								
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		1.58	1.35							3.94	3.38								
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.49								1.23									
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		2.56	1.32	0.67		0.13				6.40	3.29	1.66		0.32			7.92	0.83	1.00
104	Acids	64-19-7	Acetic acid			9.44	69.75	21.82	26.14	12.68	10.69			23.61	174.38	54.56	65.34	31.70	26.73	74.94	0.14	0.07
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid								1.22								3.04			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		3.13	2.92	2.59						7.81	7.29	6.48							
112		872-50-4	2-Pyrrolidinone, 1-methyl-		2.69	6.16	5.86	1.20	1.22	2.67	2.77		6.72	15.40	14.65	3.01	3.06	6.68	6.92	19.50	0.34	0.43
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		328.96	142.15	55.73	16.95	6.82	3.06	1.41		822.41	355.38	139.32	42.37	17.05	7.66	3.53	1511.23	1.24	0.97
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide		15.95	8.53		1.00	1.27	3.22	2.18		39.88	21.34		2.49	3.18	8.05	5.46	21.28	0.38	0.37
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.3 h	96.9 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.3 h	96.9 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	9.7	91.6	38.1	9.6	4.8	4.7	2.9	1.9		204.6	71.1								
122		50-00-0	Formaldehyde	3.1	10.4	11.4	3.3	3.2	2.9	2.3	1.8		18.0	20.7	0.5	0.0				769.29	3.32	0.93
123		123-38-6	Propanal	0.0	5.4	5.3	0.0	0.0	0.0	0.0	0.0		13.5	13.2								
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.3 h	96.9 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.3 h	96.9 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		193.6	118.3	49.1	18.2	5.4	5.7	7.6		484.0	295.7	122.8	45.5	13.6	14.3	19.1	804.25	0.92	0.93

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 33: Small-scale chamber concentration and emission factor for WF1 (wood finish; oil-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol						5.77	2.37							14.41	5.93				
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	3.94								0.00										
4		67-63-0	2-Propanol						2.92	3.64	2.99						7.29	9.10	7.47			
5		64-17-5	Ethanol						21.26	23.85	20.43						53.16	59.63	51.07	63.34	0.04	0.02
6		108-95-2	Phenol	2.10								0.00										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone						2.16	2.22	1.45						5.40	5.55	3.62	46.37	0.54	0.61
8		67-64-1	Acetone	0.54					44.24	41.80	32.85	0.00					109.26	103.16	80.78	565.86	0.42	0.82
9		98-86-2	Acetophenone	0.22								0.00										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.54								0.00										
13		123-72-8	Butanal						10.46	6.73	4.65						26.15	16.84	11.63	2388.12	1.16	1.00
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal							11.49								28.74				
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal						1850.26	966.85	562.58						4625.66	2417.12	1406.45	3.5E+06	1.71	1.00
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal						44.81	29.49	19.63						112.02	73.72	49.08	10987.8	1.18	0.99
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.6		149918	78506.1	12271.0	9044.1	4702.2	1754.3	0.0		374792	196264	30676.0	22608.9	11754.1	4384.2	1.5E+06	1.19	0.97
29		112-40-3	Dodecane	0.2		1303.2	1199.7	711.4	349.5	171.2	91.9	0.0		3257.5	2998.7	1777.8	873.1	427.5	229.3	9989.2	0.71	0.86
30		142-82-5	Heptane	0.2					2.5	2.5	2.0	0.0					5.8	5.7	4.3	26.4	0.38	0.69
31		544-76-3	Hexadecane						2.5	2.7	2.1						6.2	6.7	5.3	14.7	0.21	0.35
32		110-54-3	Hexane	0.2					0.9	1.0	0.6	0.0					1.9	2.0	1.1	27.3	0.66	0.57
33		111-84-2	Nonane			84729.6	26762.6	3965.6	1887.1	1012.6	471.6			211824	66907	9914.1	4717.8	2531.5	1178.9	9.5E+05	1.42	0.99
34		111-65-9	Octane			785.3	206.6	25.8	11.9	7.5	3.9			1963.1	516.4	64.4	29.9	18.7	9.8	8261.7	1.47	0.99
35		629-62-9	Pentadecane						7.0	6.3	3.5						17.4	15.9	8.7	739.2	0.95	0.77
36		629-59-4	Tetradecane						9.8	6.5	3.6						24.6	16.2	9.0	6378.7	1.42	0.96
37		629-50-5	Tridecane						20.3	10.6	5.2						50.6	26.4	12.9	99606.6	1.95	0.98
38		1120-21-4	Undecane	0.6		18749.1	15300.9	3591.3	1096.8	709.7	419.5	0.0		46871.2	38250.6	8976.6	2740.3	1772.7	1047.2	2.3E+05	1.13	0.97
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-			42.9	31.8	6.3	4.0	2.2	1.2			107.3	79.5	15.7	9.9	5.5	3.0	399.0	1.01	0.98
40		611-14-3	Toluene, 2-ethyl-	0.0		2978.6	1126.0	125.4	86.7	47.6	22.3	0.0		7446.5	2814.9	313.5	216.6	118.9	55.8	30939.8	1.34	0.99
41		620-14-4	Toluene, 3-ethyl-			8449.4	2967.9	315.1	205.9	108.5	50.2			21123.6	7419.7	787.6	514.7	271.3	125.5	93266.7	1.41	0.99
42		622-96-8	Toluene, 4-ethyl-			3054.2	1087.1	120.5	105.5	58.0	26.5			7635.4	2717.9	301.1	263.7	144.9	66.2	27749.8	1.28	0.98
43		31017-40-0	Cyclohexene, 4-phenyl						1.2	0.6	0.3						2.9	1.4	0.6	13992.5	2.18	0.99
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-	0.0		2086.8	1030.1	116.9	75.3	42.6	20.6	0.0		5216.9	2575.2	292.0	188.1	106.4	51.3	22992.5	1.30	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-			12053.3	5088.6	535.1	401.0	217.9	102.3			30133.3	12721.5	1337.7	1002.5	544.7	255.9	1.3E+05	1.32	0.98
47		95-47-6	Benzene, 1,2-dimethyl-			1311.7	350.9	44.6	25.7	13.3	6.1			3279.3	877.3	111.6	64.4	33.3	15.1	13900.6	1.45	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-			3577.3	1392.0	160.1	113.3	59.9	28.3			8943.2	3480.0	400.2	283.2	149.8	70.8	36988.0	1.33	0.99
49		108-38-3	Benzene, 1,3-dimethyl-	0.1		2211.5	519.0	60.5	37.5	20.9	9.6	0.0		5528.5	1297.0	151.0	93.5	51.9	23.6	22010.2	1.47	0.99
50		98-82-8	Benzene, isopropyl			385.5	118.2	13.8	11.6	6.2	2.8			963.8	295.6	34.4	29.0	15.5	7.0	3470.1	1.32	0.98
51		103-65-1	Benzene, propyl-			2334.0	737.4	87.4	76.7	41.3	18.8			5835.0	1843.6	218.4	191.8	103.2	47.1	20374.0	1.29	0.97
52		100-41-4	Ethylbenzene	0.0		424.6	101.1	12.7	7.8	4.1	2.0	0.0		1061.3	252.6	31.7	19.5	10.2	4.8	4201.6	1.45	0.99
53		91-20-3	Naphthalene	1.3		569.6	389.6	106.9	81.3	38.9	20.0	0.0		1420.6	970.6	263.8	199.9	94.0	46.6	4633.4	0.92	0.96
54		99-87-6	p-Cymene					5.5								13.6						
55		100-42-5	Styrene	0.0								0.0										
56		108-88-3	Toluene	31.9		1404.6	571.7	24.5	13.1	7.3	3.8	0.0		3431.7	1349.4							
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene			231.7	106.9	11.4	9.6	4.6	2.1			579.2	267.3	28.6	24.1	11.5	5.3	2445.8	1.29	0.98
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester						1.03	1.29	1.07						2.58	3.22	2.67			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 33 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	2.16						1.56		0.00										
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane			21.9								54.8								
92		110-82-7	Cyclohexane							0.4								1.1				
93		1678-93-9	Cyclohexane, butyl-			25620.6	13877.9	1666.8	1383.9	854.9	383.6			64051.4	34694.6	4166.9	3459.7	2137.2	959.1	2.4E+05	1.16	0.98
94		1678-91-7	Cyclohexane, ethyl-			666.3	171.2	19.5	11.5	6.6	3.0			1665.8	427.9	48.8	28.8	16.6	7.4	6904.1	1.46	0.99
95		1678-92-8	Cyclohexane, propyl-			39409.1	13700.2	1777.2		622.0	305.5			98522.9	34250.4	4443.0		1554.9	763.9	4.0E+05	1.35	0.99
96		91-17-8	Decahydronaphthalene			11867.5	6582.6	794.3	721.7	416.3	206.7			29668.7	16456.6	1985.8	1804.3	1040.7	516.8	1.1E+05	1.12	0.97
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid					481.79	817.47	489.18	202.46					1204.46	2043.69	1222.96	506.15	8710.37	0.52	0.29
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > ** h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	0.7	6.0	4.4	6.7	5.6	31.1	22.4	21.7		13.1	9.3	14.9	12.2	76.1	54.3	52.6			
122		50-00-0	Formaldehyde	0.1	2.4	1.1	0.3	1.3	1.9	2.5	2.2		5.7	2.4	0.5	3.0	4.3	5.9	5.1			
123		123-38-6	Propanal					3.8	141.5	65.1	43.8					9.5	353.9	162.8	109.4			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPI	107-02-8	Acrolein		9.9	12.6	17.9	11.5	65.9	18.3	10.2		24.8	31.5	44.8	28.7	164.8	45.7	25.6			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 34: Small-scale chamber concentration and emission factor for WF2 (wood finish; water-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.54	3431.92	1734.83	293.53	14.35	7.34	5.36	4.93	0.00	8575.96	4333.23	729.98	32.02	14.51	9.55	8.49	2.2E+04	1.84	0.97
2		71-23-8	1-Propanol		2.64	2.35							6.61	5.88								
3		104-76-7	Hexanol, 2-ethyl-1-	5.19								0.00										
4		67-63-0	2-Propanol		20.82	11.30	2.39	0.55	0.78	0.45	0.62		52.06	28.24	5.98	1.36	1.94	1.13	1.54	37.79	0.81	0.82
5		64-17-5	Ethanol		17.44	10.66	8.40	2.38	1.69	1.48	1.29		43.61	26.64	20.99	5.94	4.22	3.69	3.22	57.41	0.65	0.98
6		108-95-2	Phenol	0.46	5.75	7.23	9.76	6.83	84.88	8.40	3.05	0.00	13.22	16.92	23.27	15.92	211.06	19.84	6.48			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		2.08	1.35	0.52	0.24	0.25	0.13	0.21		5.19	3.37	1.29	0.61	0.63	0.34	0.53	4.48	0.54	0.86
8		67-64-1	Acetone	0.34	679.14	310.40	47.56	7.00	4.97	4.31	3.67	0.00	1697.00	775.15	118.05	16.65	11.58	9.91	8.33	1688.76	1.25	0.93
9		98-86-2	Acetophenone	0.09	1.46	1.98	1.52	1.33	7.81	1.81	0.41	0.00	3.43	4.72	3.58	3.09	19.30	4.29	0.79	5.85	0.13	0.03
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		3.27	2.09	0.93			0.18	0.22		8.17	5.23	2.32			0.44	0.54	9.29	0.67	0.97
12		100-52-7	Benzaldehyde	0.18	3.56	3.55	2.35	1.12	5.59	0.85	0.55	0.00	8.45	8.44	5.44	2.36	13.52	1.67	0.92	13.64	0.42	0.33
13		123-72-8	Butanal		19.44	17.48	5.59	1.99	1.47	1.15	1.15		48.61	43.71	13.97	4.97	3.66	2.87	2.88	71.94	0.76	0.95
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal								0.42								1.06			
18		66-25-1	Hexanal		80.11	134.84	142.92	84.42	71.64	79.63	74.92		200.27	337.09	357.29	211.05	179.11	199.09	187.31	447.65	0.21	0.88
19		124-19-6	Nonanal							1.31								3.28				
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal		4.52								11.30									
23		110-62-3	Pentanal		4.42	7.21	7.63	5.34	4.82	4.61	4.77		11.05	18.02	19.06	13.34	12.04	11.53	11.91	22.58	0.15	0.92
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.15					0.64			0.00					1.23					
29		112-40-3	Dodecane		6.42	8.86	5.07		0.19	0.14	0.13		16.05	22.16	12.67		0.48	0.35	0.31	109.67	1.33	0.99
30		142-82-5	Heptane						0.63								1.58					
31		544-76-3	Hexadecane		5.02	6.62	6.02		1.54	1.33			12.55	16.56	15.05		3.84	3.31		34.37	0.55	0.98
32		110-54-3	Hexane			0.62			0.85					1.54			2.13					
33		111-84-2	Nonane						0.41								1.03					
34		111-65-9	Octane		1.08	1.12							2.70	2.80								
35		629-62-9	Pentadecane		1.24	1.60	1.40		0.27	0.36			3.10	4.01	3.51		0.67	0.90		8.31	0.57	0.93
36		629-59-4	Tetradecane		8.07	11.55	9.01	1.38	0.62	0.65	0.41		20.18	28.87	22.52	3.46	1.55	1.63	1.02	103.75	1.02	0.98
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane	0.16	3.35	5.28	2.40	0.23	0.22	0.17	0.10	0.00	7.97	12.80	5.61	0.19	0.15	0.03		121.71	1.89	0.97
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-	0.01								0.00										
40		611-14-3	Toluene, 2-ethyl-		2.46	2.35	0.77	0.06					6.16	5.88	1.94	0.15				44.64	1.79	1.00
41		620-14-4	Toluene, 3-ethyl-		6.92	6.34	1.95						17.30	15.86	4.88							
42		622-96-8	Toluene, 4-ethyl-		3.32	3.61	1.02						8.30	9.01	2.55							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene			0.26			52.85					0.64			132.11					
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.03	9.55	8.80	3.00	0.16	0.10	0.04	0.05	0.00	23.80	21.94	7.42	0.33	0.17	0.04	0.05	182.45	1.88	0.98
47		95-47-6	Benzene, 1,2-dimethyl-	0.03	12.02	8.51	2.17	0.22	0.14	0.07	0.08	0.00	29.97	21.19	5.35	0.47	0.26	0.11	0.12	92.51	1.54	0.98
48		108-67-8	Benzene, 1,3,5-trimethyl-		2.97	2.72	0.95		0.03				7.43	6.80	2.37		0.08			41.29	1.61	1.00
49		108-38-3	Benzene, 1,3-dimethyl-	0.14	57.40	40.25	9.63	0.99	0.54	0.31	0.30	0.00	143.16	100.27	23.72	2.12	1.00	0.42	0.39	488.01	1.62	0.99
50		98-82-8	Benzene, isopropyl		0.85	0.83	0.28						2.13	2.07	0.69							
51		103-65-1	Benzene, propyl-		3.52	3.31	0.99		0.10				8.80	8.26	2.49		0.26			27.06	1.21	0.99
52		100-41-4	Ethylbenzene	0.04	21.34	15.58	3.73	0.29	0.23	0.12	0.11	0.00	53.26	38.86	9.22	0.62	0.46	0.19	0.16	170.44	1.58	0.98
53		91-20-3	Naphthalene	2.48	26.82	29.16	19.04	4.81	3.76	2.52	2.08	0.00	60.84	66.69	41.39	5.82	3.20	0.09		799.42	1.76	0.82
54		99-87-6	p-Cymene	0.03								0.00										
55		100-42-5	Styrene			0.72	0.46		2.12	0.10	0.11			1.81	1.14		5.29	0.26	0.28	2.93	0.36	0.19
56		108-88-3	Toluene	0.14	99.12	56.46	12.36	1.24	2.26	0.54	0.61	0.00	247.46	140.79	30.54	2.75	5.30	1.01	1.18	422.63	1.33	0.92
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene	0.10					0.08			0.00										
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester					0.37	0.54	0.26	0.30					0.92	1.34	0.66	0.76	2.22	0.23	0.20
63		80-62-6	Methyl methacrylate		8.31	3.85	0.74		0.32				20.78	9.62	1.86		0.80			14.23	0.78	0.79
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol			4.94	16.28			5.76	2.46			12.36	40.71			14.41	6.14	30.49	0.25	0.32
67		6846-50-0	TXIB	0.07	0.65	0.41	0.48		0.24	33.22	0.76	0.00	1.45	0.86	1.02		0.41	82.87	1.73			

Table A. 34 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		3382.85	7791.75	6543.75	876.24	400.36	175.53	160.02		8457.13	19479	16359	2190.61	1000.89	438.83	400.06	1.0E+05	1.22	0.98
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-					5.91								14.78						
72		111-76-2	Ethanol, 2-butoxy-		6.72	10.02	5.36						16.81	25.04	13.40							
73		112-34-5	Ethanol, 2-butoxyethoxy-			17.06	17.54	5.43	3.39	1.97	2.33			42.65	43.85	13.58	8.48	4.93	5.83	111.92	0.67	0.96
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-							0.20								0.51				
76		75-65-0	Propanol, 2-methyl-2-		1554.86	655.32	69.52	2.11	1.75	0.88	0.83		3887.14	1638.30	173.80	5.28	4.38	2.20	2.09	7092.53	1.91	0.94
77		5131-66-8	Proylene glycol monobutyl et		258.01	247.94	100.64	5.01	1.79	1.21	0.74		645.03	619.86	251.59	12.52	4.48	3.03	1.84	4442.19	1.74	0.99
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.92	0.69							2.29	1.73								
89		79-01-6	Trichloroethylene	1.53	78.07	37.00	11.54	5.64	4.63	2.28	3.90	0.00	191.35	88.67	25.01	10.27	7.75	1.88	5.92	169.17	0.87	0.85
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		1.30	2.15							3.26	5.36								
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		1.08	1.36	0.70						2.69	3.41	1.76							
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.66	0.44							1.65	1.09								
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid				31.61	8.92	75.33	18.76	26.89				79.02	22.30	188.33	46.91	67.23			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		32.49	69.01	56.06	6.04	1.73	2.58	1.80		81.23	172.51	140.14	15.11	4.31	6.45	4.51	757.70	1.18	0.95
112		872-50-4	2-Pyrrolidinone, 1-methyl-		45.00	93.51	61.61	11.81	5.90	8.59	2.80		112.50	233.79	154.01	29.51	14.75	21.47	7.01	721.76	0.95	0.95
113		123-91-1	1,4-Dioxane						0.65								1.63					
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		1039.84	706.46	144.04	5.90	1.53	0.73	0.36		2599.6	1766.2	360.09	14.76	3.83	1.83	0.91	18129	2.18	1.00
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine		862.22	1208.63	329.33	3.66					2155.5	3021.6	823.32	9.15				94899	2.87	0.99
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide			4.89	6.17							12.22	15.41							
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > ** h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	0.0	77.0	38.7	12.1	6.9	6.6	5.2	3.9		192.6	96.8	30.3	17.1	16.5	13.0	9.8	137.45	0.58	0.87
122		50-00-0	Formaldehyde	0.0	20.6	4.0	2.2	1.7	1.8	0.9	4.9		51.6	10.1	5.4	4.2	4.4	2.4	12.3	8.26	0.12	0.07
123		123-38-6	Propanal	0.0	135.5	71.5	26.9	5.6	3.9	2.9	2.8		338.9	178.8	67.2	14.1	9.6	7.3	7.1	496.13	0.99	0.96

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein		92.7	38.0	41.8	4.7	15.0	2.8	2.7		231.8	94.9	104.5	11.8	37.5	7.0	6.8	340.43	0.83	0.77

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 35: Small-scale chamber concentration and emission factor for WS8 (wood stain; oil-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		525.23				5.26		2.54		1313.06				13.16		6.36			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	1.55								0.00										
4		67-63-0	2-Propanol		2.49				1.79	1.99	1.65		6.22				4.48	4.97	4.14	6.64	0.09	0.12
5		64-17-5	Ethanol		16.57				11.53	10.05	10.61		41.43				28.83	25.13	26.51	47.46	0.14	0.46
6		108-95-2	Phenol	1.68								0.00										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		185.21	93.80			14.04	10.22	9.34		463.03	234.51			35.09	25.55	23.35	351.18	0.60	0.96
8		67-64-1	Acetone	1.14	22.78				23.25	19.94	16.70	0.00	54.11				55.28	47.02	38.92	386.82	0.50	0.98
9		98-86-2	Acetophenone	0.59							2.02	0.00							3.57			
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.59								0.00										
13		123-72-8	Butanal						13.97	7.66	7.96						34.93	19.14	19.90	890.55	0.86	0.78
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal						23.57	15.25	12.47						58.92	38.12	31.17	2110.85	0.93	0.99
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal						8226.77	3080.97	2839.38						20566.9	7702.43	7098.44	8.9E+06	1.59	0.88
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		4.19				169.87	76.45	71.20		10.48				424.69	191.13	178.00	60497.8	1.30	0.88
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-		3.6								8.9									
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.4	45103.7	137030	70609.8	12427.7	6314.7	2401.6	1446.1	0.0	112758	342575	176523	31068.1	15785.8	6003.1	3614.3	1.7E+06	1.29	0.99
29		112-40-3	Dodecane	0.1	860.7	1435.3	1504.9	617.6	241.2	118.3	77.4	0.0	2151.5	3587.8	3762.0	1543.7	602.8	295.3	193.2	14032.5	0.86	0.91
30		142-82-5	Heptane		23.6				8.2	4.1	3.3		59.0				20.4	10.3	8.3	3289.6	1.32	0.96
31		544-76-3	Hexadecane	0.2						0.2		0.0										
32		110-54-3	Hexane	0.1	8.2				2.6	1.4	1.1	0.0	20.3				6.3	3.2	2.5	1075.3	1.34	0.97
33		111-84-2	Nonane	0.2	91016.6	86823.4	33703.6	4687.5	1954.7	990.5	820.8	0.0	227541	217058	84258.5	11718.3	4886.4	2475.9	2051.7	9.7E+05	1.37	1.00
34		111-65-9	Octane		149.0	86.6	31.0		11.6	5.3	4.4		372.4	216.4	77.6		28.9	13.3	11.1	6505.1	1.41	0.94
35		629-62-9	Pentadecane	0.4	1.3				0.9	0.7	0.6	0.0	2.3				1.1	0.7	0.5	137.4	1.24	0.99
36		629-59-4	Tetradecane	1.1	2.3				1.8	1.2	1.2	0.0	2.9				1.8	0.3	0.4	22216.9	2.48	0.79
37		629-50-5	Tridecane		8.8		23.7		7.8	3.2	2.2		21.9		59.2		19.6	8.0	5.6	22914.0	1.84	0.98
38		1120-21-4	Undecane	0.3	15728.6	25436.1	18872.1	4129.2	1125.2	556.9	369.1	0.0	39320.9	63589.6	47179.6	10322.4	2812.3	1391.4	922.1	3.6E+05	1.27	0.97
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		105.4	132.6	95.6	18.7	8.5	4.0	2.5		263.4	331.4	238.9	46.7	21.4	9.9	6.3	1548.4	1.16	0.98
40		611-14-3	Toluene, 2-ethyl-		5148.3	9422.2	4143.8	502.7	270.7	118.8	91.9		12870.8	23555.5	10359.5	1256.7	676.7	297.1	229.7	1.1E+05	1.35	1.00
41		620-14-4	Toluene, 3-ethyl-		5182.2	28367.3	11826.8	1345.8	603.0	315.8	244.1		12955.6	70918.4	29567.1	3364.5	1507.5	789.5	610.2	3.4E+05	1.40	1.00
42		622-96-8	Toluene, 4-ethyl-		4490.4	10676.9	4516.3	497.4	374.6	175.5	135.2		11226.0	26692.3	11290.8	1243.6	936.4	438.7	338.0	1.0E+05	1.27	0.99
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.1	4.4					1.3	0.3	0.0	10.8					3.0	0.7			
45		526-73-8	Benzene, 1,2,3-trimethyl-		6452.4	5361.6	2749.3	355.9	185.0	78.3	58.5		16131.0	13404.0	6873.2	889.7	462.6	195.8	146.2	64496.4	1.33	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.1	14799.9	40477.9	18573.3	2208.7	1251.3	542.2	406.0	0.0	36999.7	101195	46433.1	5521.6	3128.0	1355.3	1014.8	4.6E+05	1.34	1.00
47		95-47-6	Benzene, 1,2-dimethyl-	0.1	3443.3	2298.0	805.3	93.5	58.9	27.1	21.5	0.0	8608.0	5744.7	2013.2	233.6	147.2	67.5	53.6	22838.6	1.35	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-	0.0	8734.1	12557.8	5502.5	684.4	374.7	161.6	124.5	0.0	21835.2	31394.4	13756.2	1710.9	936.8	404.0	311.3	1.4E+05	1.35	1.00
49		108-38-3	Benzene, 1,3-dimethyl-	0.2	6362.3	2949.9	1006.9	94.6	76.3	36.7	29.1	0.0	15905.3	7374.4	2516.9	236.0	190.4	91.3	72.3	27145.2	1.33	0.98
50		98-82-8	Benzene, isopropyl		2005.1	1133.1	440.0	47.9	36.2	17.4	13.8		5012.9	2832.9	1100.0	119.8	90.5	43.4	34.6	10404.1	1.27	0.99
51		103-65-1	Benzene, propyl-		13656.8	7672.3	3091.4	356.6	263.8	125.0	98.0		34142.1	19180.7	7728.6	891.6	659.4	312.4	245.1	70885.2	1.26	0.99
52		100-41-4	Ethylbenzene	0.1	1643.5	698.3	226.7	28.6	19.0	8.4	6.8	0.0	4108.7	1745.7	566.6	71.3	47.5	20.9	16.8	6526.2	1.33	0.99
53		91-20-3	Naphthalene	0.1	12.6	19.9	15.4	4.3	1.6	0.8	0.6	0.0	31.1	49.5	38.2	10.5	3.6	1.6	1.1	240.7	1.13	0.96
54		99-87-6	p-Cymene		1033.9	208.1	107.7	13.0					2584.8	520.2	269.2	32.4				2604.5	1.36	0.99
55		100-42-5	Styrene	0.1								0.0										
56		108-88-3	Toluene	5.0	952.4	264.0	161.8	7.5	4.2	3.3	1.3	0.0	2368.5	647.7	392.1	6.3				13112.5	2.33	0.95
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene			38.3	20.1							95.6	50.3							
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB	0.56								0.00										

Table A. 35 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol	112.20								0.00										
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-	0.48								0.00										
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	4.4	94.0				0.2	7.3		0.0	224.0					7.3				
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		9.2								22.9									
92		110-82-7	Cyclohexane		1.0								2.6									
93		1678-93-9	Cyclohexane, butyl-		10554.8	28102.9	13223.1	2089.7	1168.7	511.7	353.4			70257.2	33057.8	5224.4	2921.8	1279.2	883.5	3.0E+05	1.25	0.99
94		1678-91-7	Cyclohexane, ethyl-		369.1	140.4	54.8		4.2	2.0	1.8		922.7	351.0	137.1		10.5	5.1	4.5	1393.3	1.28	1.00
95		1678-92-8	Cyclohexane, propyl-		15319.0	51440.3	19992.0	2472.3	1470.8	658.9	546.1		38297.6	128601	49980.0	6180.8	3676.9	1647.3	1365.2	5.2E+05	1.32	0.99
96		91-17-8	Decahydronaphthalene		35683.8	13677.8	6942.1	934.6	628.9	239.2	175.7		89209.4	34194.5	17355.3	2336.6	1572.2	597.9	439.3	1.5E+05	1.26	0.99
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid						10.7		22.1						26.7		55.1			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid						372.5	134.8	108.6						931.3	336.9	271.5	1.0E+06	1.83	0.93
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime		3567.40	1640.13	434.32		11.12	3.63	2.67		8918.50	4100.34	1085.80		27.80	9.08	6.66	89446.3	2.11	0.95
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	0.5	5.2	3.1	4.5	3.3	21.9	20.9	22.9		11.7	6.5	9.9	7.0	53.4	50.9	56.0			
122		50-00-0	Formaldehyde	0.0	2.0	1.3	0.0	1.1	4.3	3.6	4.7		4.8	3.1		2.7	10.6	8.8	11.8			
123		123-38-6	Propanal					4.2	82.5	53.3	44.6					10.5	206.4	133.3	111.6			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFP	107-02-8	Acrolein	0.6	8.1	32.0	23.9	10.1	66.8	30.7	25.4		18.8	78.4	58.3	23.7	165.6	75.2	62.0			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 36: Small-scale chamber concentration and emission factor for WS9 (wood stain; water-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	0.33	349.56	143.41	31.36	4.24	2.45	2.47	2.23	0.00	873.07	357.70	77.58	9.77	5.30	5.35	4.74	902.12	1.25	0.94
2		71-23-8	1-Propanol		4.66	2.28	1.78						11.66	5.71	4.46							
3		104-76-7	Hexanol, 2-ethyl-1-		951.06	580.28	240.66	19.87	8.44	5.67	4.33		2377.64	1450.70	601.66	49.68	21.10	14.18	10.82	7153.93	1.47	0.99
4		67-63-0	2-Propanol		18.04	6.35	2.74	1.18	1.00	0.91	1.00		45.10	15.87	6.84	2.95	2.49	2.28	2.49	21.35	0.53	0.91
5		64-17-5	Ethanol		27.36	14.92	8.67	2.27	1.04	0.99	1.06		68.41	37.30	21.67	5.67	2.60	2.47	2.66	89.90	0.84	0.97
6		108-95-2	Phenol	0.52	19.63	26.18	19.27	176.95	7.72	6.09	5.37	0.00	47.78	64.15	46.89	441.07	18.00	13.92	12.14	170.75	0.46	0.23
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.35	0.95	0.65	0.33	0.22	0.21	0.19		3.38	2.36	1.64	0.84	0.56	0.53	0.49	3.82	0.47	0.99
8		67-64-1	Acetone	0.30	4.77	18.58	13.30	7.51	3.48	3.63	4.57	0.00	11.18	45.70	32.51	18.03	7.96	8.34	10.68	78.14	0.50	0.91
9		98-86-2	Acetophenone		17.74	12.61	7.61	15.43	1.29	0.55	0.58		44.35	31.52	19.03	38.57	3.21	1.38	1.46	127.67	0.91	0.69
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		3.85	2.08	2.05		0.64	1.30	1.06		9.62	5.19	5.13		1.60	3.24	2.64	6.94	0.24	0.60
12		100-52-7	Benzaldehyde		7.61	6.17	4.48	11.41	0.84	0.81	0.88		19.03	15.43	11.20	28.52	2.10	2.03	2.19	42.25	0.62	0.55
13		123-72-8	Butanal		3.86	3.26	3.65			0.76	0.65		9.66	8.16	9.14			1.90	1.63	17.70	0.52	0.96
14		112-31-2	Decanal		4.42	6.00	4.11						11.04	15.01	10.27							
15		3913-81-3	2-Decenal				1.45								3.62							
16		98-01-1	Furfural		3.26	2.28	1.83	1.02		0.28	0.34		8.15	5.69	4.57	2.55		0.71	0.85	12.88	0.61	0.94
17		111-71-7	Heptanal				4.42			0.50	0.42				11.04			1.25	1.06	50.99	0.86	1.00
18		66-25-1	Hexanal		514.17	476.97	268.72	87.43	77.39	74.39	68.68		1285.43	1192.42	671.79	218.56	193.46	185.97	171.69	1885.57	0.57	0.94
19		124-19-6	Nonanal				5.34			0.75	0.67				13.34			1.88	1.66	52.29	0.77	1.00
20		18829-56-6	2-Nonenal			2.19	2.55							5.47	6.38							
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal			11.96	5.56	1.82	0.39	0.32				29.91	13.89	4.56	0.98	0.80		115.32	1.16	0.97
23		110-62-3	Pentanal		17.78	16.95	12.88	5.43	4.79	4.81	4.45		44.45	42.36	32.20	13.58	11.98	12.02	11.13	62.51	0.40	0.95
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		49.95	21.48							124.88	53.69								
29		112-40-3	Dodecane		1.05	0.45							2.63	1.13								
30		142-82-5	Heptane		1.02			1.28					2.55			3.20						
31		544-76-3	Hexadecane						0.17								0.42					
32		110-54-3	Hexane		1.07	0.51		1.89			0.16		2.68	1.26		4.72			0.41	2.81	0.25	0.13
33		111-84-2	Nonane		11.27	4.42	1.64	1.05					28.18	11.05	4.09	2.63				17.83	0.64	0.84
34		111-65-9	Octane					1.13								2.82						
35		629-62-9	Pentadecane	0.30	0.60	0.90	0.93	0.90	0.76		0.64	0.00	0.77	1.51	1.60	1.51	1.15		0.87	2.00	0.15	0.71
36		629-59-4	Tetradecane	0.90	1.99	2.51	2.31	2.24	2.06	2.01	1.82	0.00	2.74	4.03	3.53	3.35	2.92	2.79	2.31	4.68	0.13	0.88
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		15.47	6.59	1.90	0.50	0.16				38.68	16.47	4.74	1.26	0.40			58.05	1.27	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-		2.13	0.79	0.19						5.31	1.98	0.47							
41		620-14-4	Toluene, 3-ethyl-		4.21	1.39	0.33						10.53	3.48	0.83							
42		622-96-8	Toluene, 4-ethyl-		2.04	0.79	0.23						5.10	1.96	0.58							
43		31017-40-0	Cyclohexene, 4-phenyl			0.06								0.16								
44		71-43-2	Benzene					88.00								219.99						
45		526-73-8	Benzene, 1,2,3-trimethyl-		1.13	0.47	0.16						2.81	1.18	0.40							
46		95-63-6	Benzene, 1,2,4-trimethyl-		6.48	2.42	0.63	0.11	0.05				16.19	6.04	1.57	0.27	0.13			22.31	1.36	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		5.44	2.00	0.53	0.25	0.09	0.06	0.23		13.61	5.01	1.34	0.63	0.23	0.16	0.58	7.66	0.78	0.77
48		108-67-8	Benzene, 1,3,5-trimethyl-		2.17	0.73	0.20						5.41	1.83	0.50							
49		108-38-3	Benzene, 1,3-dimethyl-	0.13	22.07	7.88	2.20	0.89	0.46	0.29	1.02	0.00	54.86	19.38	5.19	1.89	0.82	0.39	2.23	31.41	0.84	0.74
50		98-82-8	Benzene, isopropyl		2.03	0.70							5.06	1.74								
51		103-65-1	Benzene, propyl-		2.94	1.10	0.32	0.22					7.36	2.75	0.79	0.54				4.46	0.71	0.78
52		100-41-4	Ethylbenzene	0.04	6.74	2.50	0.61	0.35	0.15	0.09	0.31	0.00	16.73	6.13	1.41	0.78	0.28	0.11	0.67	9.82	0.84	0.72
53		91-20-3	Naphthalene	0.17	1.82	1.10	0.75	1.76	0.26	0.22	0.18	0.00	4.14	2.32	1.45	3.97	0.21	0.13	0.02	16.30	1.16	0.62
54		99-87-6	p-Cymene		0.29	0.14							0.72	0.35								
55		100-42-5	Styrene	0.08	13.95	4.94	1.46	3.80	0.17	0.18	0.20	0.00	34.67	12.15	3.44	9.30	0.23	0.25	0.30	46.00	1.12	0.70
56		108-88-3	Toluene	0.14	8.49	4.05	1.73	3.11	0.54	0.53	2.17	0.00	20.88	9.77	3.97	7.41	1.01	0.96	5.08	12.30	0.41	0.34
57		98-83-9	2-Phenylpropene		105.87	38.27	8.36	0.88	0.23	0.18			264.68	95.66	20.90	2.20	0.57	0.45		529.23	1.71	0.99
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester					0.59	0.33	0.25	0.32					1.46	0.82	0.63	0.79	6.87	0.52	0.75
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		8.34	9.46							20.86	23.65								
67		6846-50-0	TXIB	0.28	1.74	1.49	1.19	1.44	1.34	1.02	1.03	0.00	3.65	3.04	2.29	2.91	2.66	1.85	1.88	3.26	0.10	0.42

Table A. 36 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycolEthers	57-55-6	1,2-Propanediol		85714.5	126199.8	58402.0	119563.7	69152.4	46989.0	34309.9		214286.3	315499.6	146005.0	298909.2	172881.0	117472.5	85774.8	3.7E+05	0.25	0.45
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e		229.43	392.52	524.03	338.79	159.48	88.34	59.51		573.59	981.30	1310.08	846.98	398.70	220.85	148.77	2813.05	0.56	0.79
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		23912.57	20411.37	13252.29	868.81	210.27	118.93	76.65		59781.42	51028.44	33130.73	2172.02	525.68	297.32	191.62	4.7E+05	1.71	0.99
73		112-34-5	Ethanol, 2-butoxyethoxy-					1.43								3.58						
74		110-80-5	Ethanol, 2-ethoxy-		2.63	2.86							6.57	7.14								
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		50.15	15.78	2.30						125.39	39.45	5.74							
77		5131-66-8	Proylene glycol monobutyl et			3.40								8.50								
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.50								1.24									
89		79-01-6	Trichloroethylene	1.62	100.00	38.16	9.87	11.52	4.66	2.67	16.77	0.00	245.94	91.33	20.62	24.75	7.60	2.62	37.88	96.05	0.53	0.36
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		13.02								32.56									
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		12.32	4.20	0.91						30.80	10.50	2.28							
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.91	0.33							2.27	0.82								
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid			16.68	34.36	143.55	73.64	62.69	65.04			41.70	85.90	358.88	184.09	156.73	162.61			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid			2.04	7.56	19.35	17.64	9.90	7.10			5.09	18.90	48.37	44.10	24.74	17.74			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		45.32	28.45	21.57	4.69	1.02	2.53	1.64		113.31	71.13	53.92	11.71	2.55	6.32	4.11	213.37	0.92	0.89
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		15.44								38.60									
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide		10.56	19.90	19.15	4.29	3.94	25.90	19.84		26.39	49.76	47.86	10.73	9.84	64.75	49.59	40.96	0.09	0.02
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.7 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.7 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	3.8	18.3	24.7	9.9	7.6	5.2	4.0	3.4		36.2	52.2	15.3	9.3	3.4	0.3		317.48	1.36	0.82
122		50-00-0	Formaldehyde	0.0	9.2	8.9	3.5	2.6	1.8	2.2	1.2		23.0	22.3	8.7	6.5	4.5	5.5	2.9	31.14	0.48	0.85
123		123-38-6	Propanal	0.0	31.0	21.0	11.7	3.4	1.7	1.9	1.8		77.4	52.5	29.1	8.5	4.2	4.8	4.5	129.74	0.79	0.96

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.7 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.7 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein		63.2	37.4	58.0	52.7	45.5	48.0	19.3		157.9	93.6	145.0	131.8	113.6	119.9	48.3	151.49	0.12	0.16

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 37: Small-scale chamber concentration and emission factor for UR9 (polyurethane; oil-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.4 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.4 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		14917.6	2229.7			29.5	15.5	12.2		37294.1	5574.3			73.7	38.9	30.6	10406.7	1.29	0.97
2		71-23-8	1-Propanol						2.2								5.6					
3		104-76-7	Hexanol, 2-ethyl-1-	3.6								0.0										
4		67-63-0	2-Propanol		12.4				3.0	3.0	2.9		31.0				7.4	7.4	7.3	8.2	0.02	0.51
5		64-17-5	Ethanol		17.4				17.3	13.2	12.7		43.5				43.3	32.9	31.7	258.4	0.47	0.91
6		108-95-2	Phenol	1.1								0.0										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	0.1	276.1	112.6	63.4	36.0	22.1	12.6	10.8	0.0	690.0	281.2	158.3	89.8	55.0	31.4	26.8	574.1	0.65	0.97
8		67-64-1	Acetone	1.2	818.6	220.0			52.6	37.6	33.8	0.0	2043.4	547.0			128.4	91.0	81.4	1686.7	0.67	0.97
9		98-86-2	Acetophenone	0.6							1.3	0.0							1.7			
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.6								0.0										
13		123-72-8	Butanal						34.6	15.9	13.3						86.5	39.7	33.3	19460.0	1.41	0.94
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal						83.8	57.8	48.1						209.6	144.5	120.2	4748.2	0.81	0.99
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal					13349.3	14285.9	6707.7	4511.5					33373.1	35714.9	16769.3	11278.8	5.1E+05	0.79	0.73
19		124-19-6	Nonanal						136.4	91.0	95.8						341.1	227.5	239.6	2628.1	0.54	0.73
20		18829-56-6	2-Nonenal						60.9	28.2	19.7						152.2	70.6	49.2	86547.1	1.65	0.99
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal					694.6	384.5	188.0	135.5					1736.5	961.3	470.0	338.8	85492.1	1.20	0.98
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		16.2								40.4									
25		96-14-0	Pentane, 3-methyl-		16.4								40.9									
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.3	54767.7	173263	81860.3	5344.1	3372.2	1277.5	998.3	0.0	136919	433158	204650	13359.5	8429.7	3192.9	2494.9	2.5E+06	1.54	0.99
29		112-40-3	Dodecane	0.1	1999.9	3185.0	3857.4	877.4	291.7	130.5	89.3	0.0	4999.6	7962.4	9643.4	2193.4	729.0	325.9	222.9	45882.0	1.11	0.94
30		142-82-5	Heptane		76.2			22.5	17.1	8.9	7.0		190.5			56.2	42.8	22.3	17.5	984.7	0.87	0.92
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		35.8				4.8	2.7	1.9		89.5				12.1	6.8	4.8	2116.8	1.34	1.00
33		111-84-2	Nonane	0.1	92932.2	67110.6	15431.0	1394.4	801.2	402.9	283.7	0.0	232330	167776	38577.2	3485.6	2002.7	1007.0	709.1	7.1E+05	1.55	0.99
34		111-65-9	Octane		4216.8	1881.7	298.9	66.3	39.7	19.3	14.1		10542.1	4704.3	747.3	165.8	99.1	48.4	35.1	12715.2	1.30	0.97
35		629-62-9	Pentadecane						0.5	0.3	0.3						1.4	0.8	0.8	22.7	0.74	0.82
36		629-59-4	Tetradecane		1.1				2.0	1.0	0.7		2.7				5.1	2.6	1.7	2175.5	1.57	1.00
37		629-50-5	Tridecane		39.9		80.8	45.5	22.9	9.3	5.8		99.7		202.1	113.8	57.1	23.3	14.5	15246.1	1.51	0.97
38		1120-21-4	Undecane	0.2	25036.6	52360.9	45042.9	3862.7	1098.5	525.9	401.6	0.0	62591.1	130902	112607	9656.2	2745.8	1314.2	1003.4	1.1E+06	1.53	0.98
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		64.7	76.2	66.0	8.6	3.3	1.5	1.1		161.8	190.4	164.9	21.5	8.3	3.6	2.7	1165.7	1.31	0.98
40		611-14-3	Toluene, 2-ethyl-		3343.5	9156.0	3551.2	205.0	136.8	65.1	48.5		8358.8	22890.0	8878.0	512.6	342.0	162.8	121.2	1.2E+05	1.55	0.98
41		620-14-4	Toluene, 3-ethyl-		4603.9	26816.1	9048.1	535.2	335.5	161.2	116.6		11509.8	67040.4	22620.3	1338.1	838.7	403.1	291.5	3.5E+05	1.59	0.99
42		622-96-8	Toluene, 4-ethyl-		5588.4	10158.2	3498.6	218.5	196.3	92.4	66.5		13971.1	25395.4	8746.5	546.3	490.9	230.9	166.3	1.1E+05	1.45	0.97
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.0	0.4	123.0			0.3	0.1	0.2	0.0	1.1	307.5			0.8	0.2	0.5	13.8	0.80	0.21
45		526-73-8	Benzene, 1,2,3-trimethyl-		4271.5	6470.3	3550.8	200.9	122.4	55.2	41.4		10678.8	16175.8	8876.9	502.2	306.0	138.0	103.4	97748.8	1.53	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-		14901.1	37542.0	16700.3	889.7	619.8	279.1	208.6		37252.7	93855.0	41750.9	2224.2	1549.4	697.8	521.6	5.2E+05	1.54	0.98
47		95-47-6	Benzene, 1,2-dimethyl-	0.1	6495.7	3986.3	883.9	73.1	51.1	24.9	17.4	0.0	16239.0	9965.6	2209.6	182.6	127.5	62.1	43.4	39721.9	1.53	0.98
48		108-67-8	Benzene, 1,3,5-trimethyl-		7810.0	11040.6	4335.2	234.6	165.5	78.0	58.4		19525.1	27601.4	10838.0	586.6	413.8	194.9	146.1	1.4E+05	1.55	0.98
49		108-38-3	Benzene, 1,3-dimethyl-	0.2	10746.0	30588.2	6071.8	548.5	412.0	192.6	128.9	0.0	26864.6	76470.0	15179.0	1370.7	1029.5	481.1	321.8	2.9E+05	1.51	0.98
50		98-82-8	Benzene, isopropyl		2672.4	1168.0	290.4	21.8	19.1	9.4	6.7		6681.0	2920.0	725.9	54.4	47.6	23.4	16.9	10762.7	1.45	0.97
51		103-65-1	Benzene, propyl-		13345.5	7363.2	2238.9	154.4	133.8	65.3	46.7		33363.7	18408.1	5597.3	386.1	334.5	163.3	116.7	73706.9	1.45	0.97
52		100-41-4	Ethylbenzene	0.0	6761.2	6528.6	1219.6	117.7	82.9	38.7	25.5	0.0	16902.9	16321.3	3048.9	294.1	207.0	96.7	63.7	61149.5	1.53	0.98
53		91-20-3	Naphthalene	0.1	7.2	11.7	6.6		1.1	0.4	0.4	0.0	18.0	29.0	16.4		2.6	1.0	0.7	3067.4	1.84	0.95
54		99-87-6	p-Cymene			217.8	124.0	5.9	5.5		1.9			544.5	309.9	14.8	13.6		4.8	2792.8	1.43	0.96
55		100-42-5	Styrene	0.1								0.0										
56		108-88-3	Toluene	0.8	962.8	197.6	36.1	3.2	3.2	4.4	0.9	0.0	2404.9	492.1	88.2	6.0	6.0	9.0	0.2	2686.2	1.74	0.82
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene				29.8								74.6							
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester			1612.23	146.31							4030.58	365.78							
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB						4.05	3.01	2.72						10.13	7.51	6.80	95.97	0.59	0.97

Table A. 37 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.4 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.4 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.3	143.9	33.8			0.5	7.5	0.1	0.0	358.9	83.8			0.4	17.9		191.5	1.02	0.41
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		696.3	132.9							1740.7	332.3								
92		110-82-7	Cyclohexane		6.3								15.7									
93		1678-93-9	Cyclohexane, butyl-		10410.5	32160.3	16924.9	831.8	676.6	314.4	240.4		26026.3	80400.8	42312.2	2079.4	1691.6	786.0	600.9	4.3E+05	1.47	0.97
94		1678-91-7	Cyclohexane, ethyl-			2522.1	440.7	41.5	32.0	14.6	10.2			6305.3	1101.7	103.8	80.0	36.5	25.5	22268.7	1.51	0.97
95		1678-92-8	Cyclohexane, propyl-		18107.1	33159.3	8020.3	548.5	433.0	213.0	155.7		45267.8	82898.4	20050.6	1371.2	1082.4	532.6	389.4	3.3E+05	1.52	0.97
96		91-17-8	Decahydronaphthalene		38880.1	15050.8	8491.7	373.2	329.7	142.0	109.8		97200.3	37627.1	21229.2	933.0	824.2	355.0	274.6	2.1E+05	1.49	0.97
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid						127.7	32.0	28.7						319.2	79.9	71.8	1.6E+06	2.24	0.87
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid						13.6	5.2	4.6						34.0	12.9	11.5	16673.5	1.62	0.90
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid						158.6	88.4	64.9						396.4	221.0	162.2	59530.9	1.30	0.99
109		142-62-1	Hexanoic acid						1592.2	1008.0	781.8						3980.6	2519.9	1954.4	2.1E+05	1.03	1.00
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl								145.2								363.0			
112		872-50-4	2-Pyrrolidinone, 1-methyl-	24.0								0.0										
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime			6375.9	563.1							15939.9	1407.7							
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	0.8	7.2	7.0	68.7	69.8	46.0	32.3	30.0		16.0	15.6	169.7	172.5	113.1	78.8	73.0			
122		50-00-0	Formaldehyde	0.4	1.7	1.2	15.7	17.8	11.8	8.8	10.0		3.3	2.1	38.2	43.6	28.6	21.2	24.0			
123		123-38-6	Propanal		9.2	8.7	391.7		107.9	64.2	46.1		22.9	21.7	979.4		269.8	160.4	115.3			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.4 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFH	107-02-8	Acrolein	0.0	7.7	15.2	613.8	336.4	149.6	68.8	54.8		19.1	37.9	1534.5	841.1	373.9	172.1	136.9			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 38: Small-scale chamber concentration and emission factor for UR10 (polyurethane; water-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	0.70	5946.70	2417.31	381.19	25.06	12.59	10.96	9.10	0.00	14865	6041.52	951.22	60.88	29.72	25.65	21.00	2.3E+04	1.64	0.96
2		71-23-8	1-Propanol							0.43	0.88							1.07	2.20			
3		104-76-7	Hexanol, 2-ethyl-1-	1.71	6242.49	6263.63	4209.44	708.82	185.66	89.09	41.43	0.00	15601.9	15654.8	10519.3	1767.76	459.87	218.44	99.30	1.2E+05	1.47	0.97
4		67-63-0	2-Propanol		54.45	14.41	3.05	1.14	0.87	0.75	0.69		136.12	36.02	7.62	2.86	2.18	1.87	1.72	52.21	0.80	0.90
5		64-17-5	Ethanol		46.09	20.66	11.05	3.99	1.61	1.84	1.25		115.22	51.66	27.62	9.96	4.02	4.60	3.12	123.03	0.81	0.98
6		108-95-2	Phenol					6.83		3.47						17.07		8.68				
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		7.94	3.11	0.99	0.34	0.31	0.43	0.88		19.85	7.76	2.47	0.84	0.76	1.06	2.21	7.08	0.45	0.50
8		67-64-1	Acetone	0.35	2423.36	1366.03	259.13	48.24	28.41	20.65	15.28	0.00	6057.52	3414.20	646.93	119.72	70.14	50.74	37.31	8778.41	1.24	0.97
9		98-86-2	Acetophenone	0.06								0.00										
10		108-94-1	Cyclohexanone								0.33								0.83			
11		108-10-1	Methylisobutyl ketone		34.35	14.38	2.98	0.89	0.72	2.78	7.45		85.88	35.94	7.45	2.21	1.81	6.95	18.63	19.09	0.31	0.14
12		100-52-7	Benzaldehyde	0.15	17.44	7.14	16.03	1.42	0.80	0.89	0.68	0.00	43.24	17.48	39.71	3.19	1.65	1.86	1.33	87.47	0.94	0.86
13		123-72-8	Butanal		111.38	154.16	62.85	5.42	4.10	7.69	16.50		278.45	385.41	157.13	13.54	10.25	19.23	41.26	616.44	0.85	0.66
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal		36.43	48.44	43.95	26.93	23.47	18.03	21.91		91.07	121.09	109.88	67.31	58.68	45.07	54.77	169.49	0.28	0.94
16		98-01-1	Furfural																			
17		111-71-7	Heptanal					1.21	1.59	5.62	17.82					3.02	3.96	14.06	44.56			
18		66-25-1	Hexanal		1227.56	1346.25	699.85	213.11	173.25	806.69	4174.28		3068.91	3365.63	1749.64	532.77	433.12	2016.74	10435.7			
19		124-19-6	Nonanal								12.00								29.99			
20		18829-56-6	2-Nonenal			3.69				1.99	8.66			9.22				4.97	21.66			
21		124-13-0	Octanal							1.28	4.90							3.19	12.25			
22		2548-87-0	2-Octenal							6.31	58.55							15.77	146.38			
23		110-62-3	Pentanal		31.60	35.50	21.06	8.97	8.17	16.61	93.05		79.01	88.75	52.66	22.41	20.43	41.53	232.64			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		160.31	279.45	73.97	1.59	0.40	0.26	0.26		400.78	698.63	184.93	3.99	1.01	0.66	0.65	7230.82	2.18	0.98
29		112-40-3	Dodecane		6.37	13.79	7.74						15.92	34.47	19.34							
30		142-82-5	Heptane		41.29	40.66					4.87		103.22	101.66					12.19			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane								1.41								3.51			
33		111-84-2	Nonane		102.42	152.38	36.67	0.63	0.11		0.13		256.05	380.94	91.67	1.56	0.26		0.32	4198.40	2.29	0.95
34		111-65-9	Octane		15.79	20.65	6.05			0.38	4.60		39.47	51.63	15.12			0.94	11.49	76.75	0.71	0.53
35		629-62-9	Pentadecane			0.70		0.30						1.74		0.76						
36		629-59-4	Tetradecane		0.59	0.65	0.62		0.23	0.19	0.16		1.48	1.63	1.56		0.57	0.48	0.39	2.96	0.43	0.98
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		71.14	151.37	48.89	1.36	0.42	0.19	0.23		177.85	378.42	122.22	3.40	1.04	0.48	0.59	3659.5	2.05	0.98
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetrameth		11.67	12.50	6.75	0.41	0.10	0.06	0.03		29.18	31.25	16.87	1.01	0.24	0.15	0.07	317.81	1.82	0.99
40		611-14-3	Toluene, 2-ethyl-		33.20	25.99	8.13	0.31	0.09		0.03		83.00	64.98	20.31	0.77	0.22		0.08	647.40	2.03	0.99
41		620-14-4	Toluene, 3-ethyl-		120.43	92.66	26.64	0.79	0.21	0.12	0.06		301.07	231.64	66.61	1.98	0.53	0.31	0.16	2662.53	2.16	1.00
42		622-96-8	Toluene, 4-ethyl-		58.85	43.32	12.90	0.40	0.12	0.06	0.04		147.13	108.31	32.25	1.00	0.31	0.16	0.10	1114.07	2.08	0.99
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		100.71	2.28	139.14		0.03	0.08	0.01		251.78	5.69	347.85		0.09	0.20	0.04	595.12	2.03	0.70
45		526-73-8	Benzene, 1,2,3-trimethyl-		42.85	34.80	12.31	0.49	0.12	0.07	0.05		107.13	86.99	30.78	1.22	0.30	0.19	0.11	887.01	2.00	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-		113.48	92.16	28.92	1.00	0.28	0.16	0.10		283.70	230.39	72.30	2.51	0.70	0.40	0.25	2329.4	2.05	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		2153.95	1658.75	936.30	33.15	8.21	4.30	1.83		5384.87	4146.88	2340.76	82.89	20.52	10.75	4.57	58180.1	2.04	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		35.93	30.60	9.69	0.33	0.09	0.05	0.03		89.83	76.50	24.22	0.83	0.22	0.12	0.08	810.73	2.07	0.99
49		108-38-3	Benzene, 1,3-dimethyl-	0.20	3706.41	2644.60	1684.83	99.02	25.05	13.28	6.11	0.00	9265.52	6610.98	4211.57	247.04	62.10	32.69	14.76	74778	1.83	0.99
50		98-82-8	Benzene, isopropyl		108.03	81.51	22.59	0.67	0.15				270.09	203.78	56.47	1.67	0.39			3152.52	2.34	1.00
51		103-65-1	Benzene, propyl-		83.33	64.19	18.07	0.51	0.15	0.08	0.05		208.34	160.47	45.17	1.28	0.37	0.19	0.12	1767.62	2.15	0.99
52		100-41-4	Ethylbenzene	0.06	1871.66	1433.86	877.74	28.89	7.42	3.83	1.90	0.00	4679.01	3584.50	2194.21	72.07	18.41	9.45	4.62	50170.4	2.02	0.99
53		91-20-3	Naphthalene		12.59	11.03	9.60	1.40					31.48	27.56	24.00	3.51				115.05	1.06	0.93
54		99-87-6	p-Cymene		1.75	1.90	0.69						4.37	4.75	1.73							
55		100-42-5	Styrene							0.33	0.15							0.82	0.36			
56		108-88-3	Toluene	0.18	120.25	53.26	18.05	1.96	0.99	0.76	0.64	0.00	300.19	132.70	44.67	4.44	2.03	1.45	1.16	553.95	1.41	0.99
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		0.84	0.73	0.30						2.09	1.81	0.75							
59	Esters	108-21-4	Acetic acid, 1-methylethyl e																			
60		111-15-9	Acetic acid, 2-ethoxyethyl e																			
61		123-86-4	Acetic acid, butyl ester		116.23	38.89	6.69						290.58	97.24	16.72							
62		141-78-6	Acetic acid, ethyl ester				0.82	0.41	0.36	0.25					2.05	1.01	0.91	0.62		4.54	0.45	0.96
63		80-62-6	Methyl methacrylate		35.95	10.96							89.87	27.41								
64		103-09-3	2-Ethylhexyl acetate		14.55	17.33	10.33						36.39	43.31	25.83							
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol				7.08								17.71							
67		6846-50-0	TXIB		2.33	1.35			0.21	0.20	0.22		5.83	3.38			0.51	0.49	0.56	6.15	0.58	0.95

Table A. 38 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		171.98	289.19	347.18	90.45	57.22	42.91	14.12		429.94	722.97	867.96	226.12	143.05	107.27	35.29	2707.62	0.82	0.89
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethy																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		266.49	270.84	131.92	9.89	3.65	2.10	1.40		666.24	677.09	329.79	24.74	9.13	5.25	3.50	4516.54	1.59	1.00
73		112-34-5	Ethanol, 2-butoxyethoxy-		280.47	612.91	695.24	251.30	185.16	118.66	94.65		701.16	1532.28	1738.09	628.25	462.89	296.65	236.62	3788.18	0.58	0.95
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		37.66	11.88	1.52						94.15	29.69	3.81							
77		5131-66-8	Proylene glycol monobutyl																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.41								1.02									
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane		3.78								9.45									
88		127-18-4	Tetrachloroethylene		0.65	0.29							1.62	0.72								
89		79-01-6	Trichloroethylene	2.29	109.12	42.31	16.12	6.96	5.64	3.42	4.34	0.00	267.06	100.04	34.56	11.66	8.37	2.81	5.12	223.82	0.91	0.94
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		34.10	36.46	8.91						85.25	91.16	22.27							
92		110-82-7	Cyclohexane		5.37	3.86	1.21						13.43	9.66	3.02							
93		1678-93-9	Cyclohexane, butyl-		20.96	43.48	11.16						52.41	108.69	27.90							
94		1678-91-7	Cyclohexane, ethyl-			14.91	3.45							37.28	8.62							
95		1678-92-8	Cyclohexane, propyl-		28.73	45.56	12.24						71.82	113.91	30.61							
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene			0.30								0.76								
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid					7.35	25.95	27.32	85.55					18.37	64.89	68.30	213.87			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid				9.44	3.91	7.01	10.50	26.85				23.59	9.78	17.53	26.26	67.13			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		102.3	143.1	100.4	7.8	2.4	5.6	14.8		255.87	357.69	250.93	19.49	6.03	13.88	36.90	930.22	0.99	0.71
112		872-50-4	2-Pyrrolidinone, 1-methyl-		39947.1	60875.9	60187.5	22983.0	13269.1	10027.7	6177.8		99868	152190	150469	57458	33173	25069	15445	409334	0.67	0.96
113		123-91-1	1,4-Dioxane			2.3								5.72								
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime							16.1								40.20				
117		121-44-8	Triethylamine		3608.9	3565.3	3374.4	1827.8	897.9	735.0	233.9		9022.21	8913.19	8435.97	4569.59	2244.73	1837.48	584.80	26323.3	0.69	0.84
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.7 h	24.7 h	48.7 h	73.2 h	98 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.7 h	24.7 h	48.7 h	73.2 h	98 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	7.9	19.6	11.0	8.0	6.2	6.7	17.6	57.4		29.3	7.6	0.2			24.2	123.8			
122		50-00-0	Formaldehyde	0.0	11.7	15.6	4.1	1.8	1.9	1.9	3.7		29.3	38.9	10.3	4.6	4.8	4.8	9.3	36.64	0.45	0.54
123		123-38-6	Propanal	0.0	2.4	3.9	1.3	0.0	3.4	47.1	165.4		6.0	9.8	3.1		8.4	117.7	413.4			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.7 h	24.7 h	48.7 h	73.2 h	98 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.7 h	24.7 h	48.7 h	73.2 h	98 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		7.9	8.1	6.6	2.3	3.6	8.1	24.0		19.8	20.2	16.6	5.8	9.0	20.1	59.9			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 39: Small-scale chamber concentration and emission factor for ADH8a (adhesive; zero VOC)

#		CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{b} with t > 3 h		
				0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		4.05	3.05	0.82		0.73	0.72			10.13	7.63	2.04		1.81	1.80		6.99	0.35	0.58
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.78			2.23	2.29	2.79	2.59	2.65	0.00			3.62	3.79	5.02	4.53	4.68			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		29.99	17.06	2.17						74.98	42.65	5.42							
6		108-95-2	Phenol			3.10	2.37	2.54	1.20	1.27	0.94			7.74	5.92	6.35	2.99	3.18	2.34	11.62	0.32	0.81
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.38	0.17							0.95	0.43								
8		67-64-1	Acetone	0.27	93.67	36.69	5.77	1.68	1.78	1.90	1.25	0.00	233.51	91.06	13.75	3.54	3.78	4.08	2.47	120.63	0.89	0.83
9		98-86-2	Acetophenone	0.12	1.64	2.88	2.64	1.08	0.36	0.26	0.11	0.00	3.80	6.91	6.31	2.39	0.59	0.35		29.01	0.97	0.92
10		108-94-1	Cyclohexanone		1.41	1.51	0.69						3.53	3.77	1.72							
11		108-10-1	Methylisobutyl ketone		1.20	0.90	0.26						3.01	2.25	0.64							
12		100-52-7	Benzaldehyde		2.81	3.65	2.55	0.94	0.35	0.44	0.19		7.03	9.12	6.39	2.36	0.88	1.09	0.46	26.04	0.82	0.96
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		11.80	12.41	7.62	17.74	8.14	3.92	2.17		29.49	31.03	19.04	44.35	20.34	9.80	5.43	53.05	0.35	0.42
29		112-40-3	Dodecane		1.61	2.22	2.19	4.11	3.37	2.62	2.28		4.03	5.55	5.47	10.29	8.41	6.56	5.71			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane			0.24								0.60								
33		111-84-2	Nonane		3.24	3.23	1.87	4.21	1.48	0.67	0.30		8.09	8.08	4.68	10.52	3.69	1.68	0.76	17.63	0.51	0.53
34		111-65-9	Octane		0.51	0.74	0.43	0.67	0.28	0.11			1.28	1.84	1.09	1.66	0.70	0.28		3.17	0.44	0.58
35		629-62-9	Pentadecane							0.11								0.27				
36		629-59-4	Tetradecane	0.26	0.24	0.45	0.62	0.68	0.55	0.70	0.74	0.00		0.49	0.91	1.06	0.74	1.10	1.20			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		4.32	5.08	3.83	7.73	4.63	2.91	1.88		10.81	12.70	9.57	19.32	11.58	7.28	4.71	17.22	0.18	0.26
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		1.64	1.97	1.56	1.03	0.58	0.42	0.30		4.11	4.93	3.89	2.57	1.44	1.05	0.74	10.05	0.52	0.94
40		611-14-3	Toluene, 2-ethyl-		3.07	3.51	2.31	1.27	0.49	0.27	0.15		7.68	8.77	5.78	3.18	1.22	0.67	0.38	28.42	0.86	0.93
41		620-14-4	Toluene, 3-ethyl-		4.63	5.19	3.55	2.05	0.65	0.32	0.16		11.58	12.98	8.88	5.13	1.63	0.80	0.39	50.83	0.95	0.90
42		622-96-8	Toluene, 4-ethyl-		3.32	3.07	2.32	1.45	0.44	0.18	0.10		8.29	7.67	5.80	3.63	1.09	0.44	0.24	32.45	0.95	0.87
43		31017-40-0	Cyclohexene, 4-phenyl		0.68	0.97	0.94	0.80	0.60	0.57	0.55		1.69	2.42	2.35	2.01	1.50	1.42	1.37	3.15	0.18	0.93
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		4.63	5.25	3.95	2.10	0.87	0.52	0.34		11.58	13.13	9.88	5.24	2.18	1.31	0.84	38.96	0.78	0.94
46		95-63-6	Benzene, 1,2,4-trimethyl-		8.90	9.83	6.94	4.09	1.53	0.84	0.47		22.25	24.57	17.35	10.22	3.82	2.09	1.18	79.67	0.83	0.92
47		95-47-6	Benzene, 1,2-dimethyl-		3.08	3.62	2.10	0.85	0.29	0.18	0.09		7.70	9.04	5.24	2.14	0.73	0.44	0.22	34.20	1.02	0.96
48		108-67-8	Benzene, 1,3,5-trimethyl-		2.09	2.23	1.57	0.96	0.37	0.20	0.13		5.21	5.56	3.92	2.40	0.91	0.50	0.32	16.92	0.79	0.92
49		108-38-3	Benzene, 1,3-dimethyl-		6.43	8.98	4.42	1.80	0.55	0.36	0.17		16.07	22.45	11.04	4.51	1.37	0.91	0.43	85.16	1.08	0.97
50		98-82-8	Benzene, isopropyl-		9.60	9.83	6.52	3.66	1.12	0.60	0.36		24.00	24.57	16.31	9.16	2.80	1.51	0.89	89.55	0.93	0.92
51		103-65-1	Benzene, propyl-		1.86	1.95	1.40	0.88	0.27	0.12	0.07		4.66	4.88	3.51	2.20	0.68	0.29	0.18	18.97	0.92	0.89
52		100-41-4	Ethylbenzene	0.05	3.36	4.06	2.38	0.91	0.26	0.16	0.07	0.00	8.27	10.03	5.83	2.17	0.54	0.28	0.06	64.95	1.32	0.90
53		91-20-3	Naphthalene	0.05	303.30	367.25	333.46	212.49	119.82	88.57	68.52	0.00	758.14	918.02	833.54	531.11	299.44	221.31	171.18	1881.38	0.49	0.94
54		99-87-6	p-Cymene		10.20	10.75	7.59	5.83	2.36	1.35	0.82		25.50	26.86	18.97	14.56	5.89	3.38	2.04	71.54	0.69	0.88
55		100-42-5	Styrene	0.05	56.82	59.66	39.60	11.64	2.77	1.09	0.45	0.00	141.92	149.02	98.86	28.97	6.79	2.59	0.99	1114.88	1.40	0.93
56		108-88-3	Toluene	0.32	3.86	7.91	2.50	0.76	0.28	0.33	0.12	0.00	8.86	18.97	5.45	1.09		0.02		229.08	2.00	0.94
57		98-83-9	2-Phenylpropene		13.76	15.28	10.92	5.23	1.60	0.77	0.38		34.41	38.19	27.29	13.08	4.01	1.92	0.96	167.42	1.02	0.92
58		95-13-6	Indene		36.03	42.32	33.28	14.14	5.40	2.91	1.69		90.06	105.79	83.20	35.36	13.51	7.28	4.23	395.58	0.91	0.94
59	Esters	108-21-4	Acetic acid, 1-methylethyl est		0.49	0.45							1.22	1.13								
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester			0.37	0.47							0.93	1.19							
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB						0.10	0.14	0.17						0.25	0.34	0.43			

Table A. 39 (continued)

#		CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol				3.29	69.48	49.54	24.45	16.82				8.23	173.69	123.84	61.13	42.06			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		5.91	2.24	0.23						14.78	5.60	0.56							
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.79	10.14	12.45	1.78	0.80	0.50	1.16	0.60	0.00	23.37	29.15	2.47	0.04		0.92		36.05	1.30	0.43
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		3.41	3.64	1.98	4.05	1.70	1.02	0.66		8.53	9.09	4.95	10.13	4.26	2.54	1.64	14.48	0.37	0.54
94		1678-91-7	Cyclohexane, ethyl-		0.61	0.65	0.39	0.37		0.09			1.53	1.64	0.97	0.92		0.22		3.13	0.55	0.82
95		1678-92-8	Cyclohexane, propyl-		2.61	2.68	1.49	2.37	0.89	0.48	0.32		6.53	6.70	3.72	5.92	2.23	1.21	0.80	13.21	0.52	0.70
96		91-17-8	Decahydronaphthalene		1.88	2.19	1.34	1.60	0.67	0.45	0.33		4.69	5.47	3.35	4.01	1.67	1.12	0.82	10.17	0.49	0.81
97	Terpenes	80-56-8	alpha-Pinene		10.59	10.87	5.86	5.86	2.43	1.67	1.19		26.48	27.17	14.66	14.65	6.08	4.18	2.96	53.07	0.58	0.88
98		99-86-5	alpha-Terpinene		7.91	6.79	3.92	5.36	2.50	1.33	0.84		19.78	16.99	9.80	13.41	6.25	3.33	2.10	32.42	0.50	0.73
99		127-91-3	beta-Pinene		1.94	2.05	1.38	1.10	0.46	0.30	0.23		4.85	5.13	3.44	2.75	1.16	0.76	0.58	11.41	0.61	0.91
100		99-85-4	gamma-Terpinene		0.81	0.96	0.63	0.66	0.24	0.19			2.03	2.39	1.57	1.65	0.60	0.47		4.26	0.47	0.81
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene		2.23	1.76	1.03	0.88	0.40	0.30	0.24		5.56	4.40	2.57	2.20	1.01	0.76	0.59	8.16	0.54	0.93
103		5989-27-5	Limonene		7.81	8.40	5.28	6.22	2.49	1.45	1.11		19.52	20.99	13.20	15.54	6.22	3.61	2.78	42.69	0.53	0.80
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		4.08	3.69	1.01			0.26			10.19	9.22	2.54			0.64		15.45	0.77	0.91
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#		CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > ** h		
				0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	4.3	18.9	14.3	10.2	5.2	8.9	4.0	4.4		36.4	25.0	14.8	2.4	11.4		0.4	102.50	1.00	0.64
122		50-00-0	Formaldehyde	0.0	55.5	44.2	63.5	11.5	0.0	0.0	0.0		138.8	110.4	158.8	28.8				451.59	0.81	0.76
123		123-38-6	Propanal	0.0	2.1	1.6	0.9	0.0	0.0	0.0	0.0		5.3	4.1	2.1							
#		CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t >** h		
				0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	0 h	2.2 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	1.7	2.5	1.3	0.7	0.6	0.4	0.1		4.1	6.1	2.9	1.4	1.2	0.8	0.1	22.48	0.93	0.75

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 40: Small-scale chamber concentration and emission factor for ADH9 (adhesive; ultra-low VOC)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.6 h	3 h	6 h	24 h	48 h	72.1 h	96.1 h	0 h	1.6 h	3 h	6 h	24 h	48 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	1.56	182.66	48.65		1.89		1.80	1.61		452.74	117.71		0.81		0.59	0.11	701.12	1.86	0.94
2		71-23-8	1-Propanol		27.10	6.41							67.74	16.03								
3		104-76-7	Hexanol, 2-ethyl-1-	5.23	140.33	100.02	81.49	26.97	12.46	7.87	7.43		337.76	236.96	190.65	54.35	18.06	6.60	5.50	1221.49	1.14	0.95
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol	0.04	481.90	205.23	8.36						1204.65	512.98	20.81							
6		108-95-2	Phenol	1.80		10.61	8.87	4.24	2.76	2.39	2.37			22.02	17.67	6.09	2.39	1.48	1.41	70.93	0.86	0.97
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.28	0.27							3.20	0.67								
8		67-64-1	Acetone	0.70	164.73	31.40	5.36	0.89	1.08	0.98	0.55		410.08	76.74	11.64	0.47	0.93	0.70		216.78	1.50	0.85
9		98-86-2	Acetophenone	0.54	3.72	4.12	3.21	0.80	0.83	0.36	0.18		7.94	8.96	6.68	0.64	0.72			32.85	1.07	0.91
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		4.34	1.36							10.85	3.40								
12		100-52-7	Benzaldehyde	0.29	8.69	6.50	4.41		0.37	0.27	0.21		21.00	15.53	10.30		0.21			128.78	1.63	0.98
13		123-72-8	Butanal		2.44	1.15							6.10	2.87								
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		0.93	0.38							2.33	0.95								
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.86								2.16									
25		96-14-0	Pentane, 3-methyl-		30.96	6.42							77.41	16.04								
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.04	146.21	85.12	70.29	97.87	13.71	3.37	1.31		365.43	212.70	175.63	244.59	34.17	8.32	3.17	1435.75	1.11	0.70
29		112-40-3	Dodecane		4.67	4.29	5.41	8.01	4.04	2.31	1.42		11.67	10.72	13.53	20.02	10.11	5.79	3.56	21.22	0.27	0.37
30		142-82-5	Heptane		1.33								3.33									
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		0.84	0.34							2.11	0.85								
33		111-84-2	Nonane		49.41	27.34	21.92	22.90	1.79	0.30			123.53	68.35	54.81	57.25	4.48	0.74		508.19	1.24	0.69
34		111-65-9	Octane		6.38	3.38	2.67	1.79					15.94	8.46	6.67	4.49				11.71	0.30	1.00
35		629-62-9	Pentadecane					0.09		0.10	0.13					0.24		0.25	0.32			
36		629-59-4	Tetradecane		0.23			0.27	0.23	0.22	0.20		0.58			0.66	0.58	0.54	0.50	1.25	0.20	0.99
37		629-50-5	Tridecane		0.14				0.26	0.18	0.15		0.35				0.64	0.46	0.37	13.61	0.79	1.00
38		1120-21-4	Undecane		48.52	37.43	33.73	56.59	14.18	4.78	1.80		121.31	93.56	84.33	141.47	35.45	11.96	4.50	366.50	0.74	0.60
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet		5.20	4.12	3.21	2.65	0.93	0.43	0.19		12.99	10.30	8.02	6.63	2.32	1.06	0.48	35.56	0.80	0.81
40		611-14-3	Toluene, 2-ethyl-		13.63	8.81	6.31	2.64	0.49	0.17	0.05		34.07	22.03	15.79	6.60	1.23	0.42	0.13	180.28	1.39	0.88
41		620-14-4	Toluene, 3-ethyl-		21.98	14.28	9.96	3.92	0.53	0.14	0.04		54.95	35.71	24.89	9.81	1.33	0.34	0.10	419.77	1.61	0.88
42		622-96-8	Toluene, 4-ethyl-		13.70	8.93	6.51	2.43	0.21	0.08	0.03		34.26	22.32	16.27	6.07	0.52	0.20	0.08	265.88	1.63	0.90
43		31017-40-0	Cyclohexene, 4-phenyl		15.99	14.71	14.06	16.18	11.72	9.94	8.13		39.97	36.77	35.15	40.46	29.29	24.85	20.33	47.45	0.14	0.58
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		22.82	15.97	11.67	5.70	1.33	0.44	0.17		57.05	39.93	29.17	14.24	3.32	1.11	0.42	260.22	1.24	0.88
46		95-63-6	Benzene, 1,2,4-trimethyl-		46.29	30.73	22.18	10.03	1.78	0.48	0.16		115.72	76.83	55.46	25.07	4.45	1.20	0.40	693.05	1.43	0.87
47		95-47-6	Benzene, 1,2-dimethyl-		11.78	7.22	4.47	1.11	0.14				29.45	18.05	11.17	2.77	0.36			104.86	1.34	0.92
48		108-67-8	Benzene, 1,3,5-trimethyl-		10.73	7.01	5.11	2.40	0.46	0.14	0.05		26.81	17.53	12.76	6.00	1.15	0.36	0.13	137.35	1.35	0.87
49		108-38-3	Benzene, 1,3-dimethyl-		20.78	12.70	8.13	1.67	0.17	0.05			51.96	31.74	20.32	4.16	0.43	0.13		349.06	1.71	0.93
50		98-82-8	Benzene, isopropyl		32.60	20.71	13.36	5.64	0.80	0.19			81.49	51.78	33.39	14.09	2.01	0.48		364.71	1.37	0.87
51		103-65-1	Benzene, propyl-		15.88	10.48	7.33	2.90	0.34	0.10	0.03		39.69	26.19	18.32	7.25	0.85	0.25	0.07	315.11	1.63	0.88
52		100-41-4	Ethylbenzene		12.87	7.75	4.97	0.94	0.08	0.03			32.17	19.37	12.42	2.35	0.20	0.07		236.39	1.78	0.93
53		91-20-3	Naphthalene		428.37	520.10	472.76	296.72	170.52	93.15	51.44		1070.93	1300.24	1181.91	741.81	426.31	232.88	128.60	3376.91	0.61	0.86
54		99-87-6	p-Cymene		19.17	11.67	8.88	5.53	1.39	0.43	0.19		47.91	29.18	22.21	13.83	3.48	1.09	0.48	164.80	1.11	0.85
55		100-42-5	Styrene	0.06	668.35	435.29	261.58	34.95	2.48	0.60	0.25		1670.72	1088.07	653.81	87.22	6.05	1.35	0.48	########	2.25	0.94
56		108-88-3	Toluene	0.21	12.04	5.49	2.81	0.42	0.18	0.14	0.09		29.57	13.20	6.50	0.53				89.84	1.59	0.99
57		98-83-9	2-Phenylpropene		38.87	26.10	18.56	6.26	0.77	0.18			97.17	65.25	46.40	15.64	1.93	0.44		569.42	1.48	0.88
58		95-13-6	Indene		102.05	73.71	55.10	20.35	3.84	1.13	0.42		255.13	184.27	137.74	50.88	9.59	2.82	1.04	1636.47	1.44	0.89
59	Esters	108-21-4	Acetic acid, 1-methylethy		1.19								2.99									
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		2.25								5.61									
62		141-78-6	Acetic acid, ethyl ester		3.73	0.83							9.32	2.09								
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		5.92	4.65	4.05	2.77	1.07	0.56			14.79	11.62	10.13	6.92	2.67	1.40		29.28	0.62	0.85
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	0.93																		
67		6846-50-0	TXIB	1.82	6.39	4.00	2.90	2.63	1.92	1.68	2.10		11.41	5.44	2.70	2.02	0.23		0.69	11.32	0.73	0.71

Table A. 40 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.6 h	3 h	6 h	24 h	96 h	72.1 h	96.1 h	0 h	1.6 h	3 h	6 h	24 h	96 h	72.1 h	96.1 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol					132.24	52.64	32.21	24.34					330.60	131.60	80.52	60.85	7053.64	0.98	0.76
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		241.39	189.47	155.43	15.78	2.34	0.72	0.31		603.48	473.67	388.57	39.46	5.86	1.80	0.78	5619.98	1.74	0.91
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		90.24	18.54	0.79						225.59	46.35	1.98							
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane		0.20								0.49									
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.82	0.22							2.06	0.55								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.22								0.54									
89		79-01-6	Trichloroethylene	2.97	99.86	23.81	5.09	2.67	1.65	1.68	1.64		242.21	52.09	5.28							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane					0.34								0.86						
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		28.79	16.89	12.64	19.66	4.75	1.52	0.57		71.97	42.23	31.60	49.15	11.87	3.80	1.43	136.63	0.73	0.58
94		1678-91-7	Cyclohexane, ethyl-		9.78	5.27	3.53	3.06	0.47				24.44	13.17	8.83	7.64	1.18			31.44	0.64	0.84
95		1678-92-8	Cyclohexane, propyl-		26.67	14.08	9.87	11.97	2.18	0.52	0.14		66.68	35.19	24.68	29.92	5.45	1.30	0.36	171.24	1.01	0.64
96		91-17-8	Decahydronaphthalene		14.11	9.07	6.65	8.79	2.74	1.28	0.54		35.26	22.69	16.62	21.97	6.85	3.19	1.35	57.66	0.61	0.63
97	Terpenes	80-56-8	alpha-Pinene		34.03	19.46	12.15	11.94	3.57	1.68	0.77		85.07	48.66	30.39	29.86	8.94	4.20	1.93	133.70	0.74	0.75
98		99-86-5	alpha-Terpinene		17.86	3.96	1.52	2.24	0.22				44.65	9.91	3.80	5.60	0.56			21.31	0.70	0.74
99		127-91-3	beta-Pinene		7.59	4.86	3.30	2.45	0.71	0.41	0.18		18.97	12.15	8.24	6.12	1.78	1.02	0.45	36.12	0.79	0.81
100		99-85-4	gamma-Terpinene				1.14	1.15							2.84	2.87						
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene		5.01	2.88	1.63	1.34	0.59	0.30			12.53	7.20	4.08	3.34	1.48	0.75		12.66	0.54	0.83
103		5989-27-5	Limonene		26.49	13.64	10.50	9.72	1.89	1.21	0.47		66.23	34.10	26.24	24.31	4.73	3.01	1.18	118.86	0.81	0.77
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane		8.63	2.37							21.56	5.92								
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		11.06	6.16	3.21						27.65	15.40	8.03							
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.3 h	3.8 h	6.8 h	24.7 h	49.2 h	73.3 h	97.3 h	0 h	2.3 h	3.8 h	6.8 h	24.7 h	49.2 h	73.3 h	97.3 h	a	b	R^2
113	DNPH	75-07-0	Acetaldehyde	6.7	28.0	22.3	13.3	11.0	13.6	9.2	4.0		53.3	39.1	16.4	10.9	17.4	6.4		51.91	0.42	0.65
114		50-00-0	Formaldehyde	9.6	75.1	51.5	40.1	33.3	34.0	59.0	11.8		163.9	104.7	76.4	59.2	61.0	123.7	5.7	209.84	0.43	0.26
115		123-38-6	Propanal		1.9		2.9				1.6		4.8		7.3				4.1			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.3 h	3.8 h	6.8 h	24.7 h	49.2 h	73.3 h	97.3 h	0 h	2.3 h	3.8 h	6.8 h	24.7 h	49.2 h	73.3 h	97.3 h	a	b	R^2
118	PFPH	107-02-8	Acrolein			1.0	0.5	1.1	0.7	1.1	1.1			2.6	1.2	2.7	1.8	2.8	2.8			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 41: Small-scale chamber concentration and emission factor for ADH10 (adhesive; multi-purpose)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		59.15	35.00	6.60						147.86	87.51	16.50							
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		5.44	6.35	5.52	1.87	1.38	1.29	0.95		13.59	15.88	13.79	4.67	3.45	3.23	2.39	32.08	0.56	0.98
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		230.83	153.67	31.10						577.07	384.18	77.74							
6		108-95-2	Phenol		53.16	60.13	78.16	40.29	18.46	12.03	10.35		132.91	150.33	195.40	100.73	46.15	30.08	25.87	411.94	0.57	0.88
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.36	0.15							0.91	0.36								
8		67-64-1	Acetone	0.33	112.84	37.32	4.64	1.32	1.32	1.62	0.98	0.00	281.28	92.48	10.77	2.48	2.49	3.23	1.62	120.73	0.98	0.82
9		98-86-2	Acetophenone	0.34	4.52	5.95	3.94	2.11	0.57	0.33	0.16	0.00	10.43	14.01	8.99	4.42	0.57			54.44	1.03	0.84
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		2.26	1.13	0.23						5.65	2.84	0.56							
12		100-52-7	Benzaldehyde	0.30	3.50	3.78	2.54	0.75	0.28	0.31	0.19	0.00	8.00	8.71	5.60	1.13		0.04		90.41	1.67	0.91
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		0.85	0.85	0.78	3.25	0.92	0.32	0.14		2.12	2.12	1.96	8.12	2.31	0.81	0.35	5.06	0.35	0.22
29		112-40-3	Dodecane		0.44		0.54	1.35	1.18	0.81	0.58		1.09		1.36	3.37	2.96	2.01	1.44			
30		142-82-5	Heptane		0.59	0.54		0.61					1.47	1.36		1.52						
31		544-76-3	Hexadecane					0.49	0.48	0.47	0.47					1.22	1.20	1.18	1.17	1.34	0.03	0.99
32		110-54-3	Hexane																			
33		111-84-2	Nonane		0.64	0.63	0.45	2.15	0.35	0.10			1.61	1.58	1.13	5.39	0.88	0.26		2.98	0.33	0.17
34		111-65-9	Octane		1.05	1.08	0.88	3.29	0.50	0.13			2.63	2.70	2.19	8.23	1.25	0.32		6.40	0.44	0.26
35		629-62-9	Pentadecane	0.30	0.64	0.89	0.92	1.21	1.24	1.19	1.19	0.00	0.85	1.46	1.53	2.27	2.33	2.22	2.22			
36		629-59-4	Tetradecane	1.34	2.08	2.51	2.46	2.73	2.78	2.67	2.54	0.00	1.84	2.93	2.79	3.48	3.58	3.32	2.99			
37		629-50-5	Tridecane					0.79	0.73	0.70	0.58					1.97	1.84	1.75	1.44	3.80	0.20	0.79
38		1120-21-4	Undecane				0.21	0.65	0.30	0.20	0.07				0.53	1.63	0.75	0.50	0.16	1.70	0.31	0.18
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.32	0.40	0.37	0.33	0.17	0.10	0.05		0.79	1.00	0.91	0.82	0.42	0.25	0.13	2.31	0.51	0.76
40		611-14-3	Toluene, 2-ethyl-		3.05	3.04	2.29	1.92	0.53	0.20	0.08		7.62	7.60	5.73	4.79	1.31	0.50	0.21	33.02	0.94	0.80
41		620-14-4	Toluene, 3-ethyl-		6.43	6.60	4.47	4.86	0.95	0.30	0.11		16.08	16.50	11.16	12.14	2.37	0.74	0.26	88.04	1.06	0.76
42		622-96-8	Toluene, 4-ethyl-		3.50	2.99	2.34	2.31	0.43	0.12			8.74	7.48	5.85	5.77	1.08	0.31		28.74	0.87	0.72
43		31017-40-0	Cyclohexene, 4-phenyl		3.11	3.50	3.50	4.41	3.02	2.67	2.61		7.77	8.76	8.74	11.02	7.55	6.68	6.53	10.52	0.08	0.36
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		1.99	1.98	1.58	1.22	0.43	0.19	0.09		4.98	4.94	3.95	3.04	1.06	0.47	0.21	17.81	0.82	0.82
46		95-63-6	Benzene, 1,2,4-trimethyl-		4.58	4.60	3.57	3.32	0.87	0.33	0.14		11.46	11.51	8.94	8.29	2.17	0.82	0.34	49.83	0.92	0.78
47		95-47-6	Benzene, 1,2-dimethyl-		4.06	3.85	2.58	1.24	0.28	0.13	0.06		10.15	9.64	6.46	3.09	0.70	0.32	0.14	51.69	1.16	0.91
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-		5.58	5.20	3.55	1.87	0.31	0.29	0.13		13.94	13.00	8.87	4.68	0.78	0.72	0.32	56.18	1.04	0.91
50		98-82-8	Benzene, isopropyl		5.96	5.43	4.25	3.87	0.71	0.21	0.10		14.91	13.58	10.64	9.67	1.76	0.53	0.24	79.15	1.09	0.79
51		103-65-1	Benzene, propyl-		5.84	5.82	4.29	4.47	0.84	0.21	0.08		14.60	14.56	10.73	11.18	2.09	0.53	0.19	90.74	1.12	0.75
52		100-41-4	Ethylbenzene	0.02	11.43	10.83	7.46	3.70	0.49	0.17	0.06	0.00	28.53	27.02	18.61	9.19	1.18	0.37	0.10	270.62	1.50	0.86
53		91-20-3	Naphthalene		63.27	74.10	69.65	58.32	29.67	20.41	14.65		158.17	185.24	174.12	145.79	74.18	51.03	36.62	379.70	0.45	0.84
54		99-87-6	p-Cymene		12.44	11.95	10.30	13.10	3.89	1.83	1.24		31.11	29.87	25.75	32.74	9.71	4.57	3.09	84.17	0.61	0.71
55		100-42-5	Styrene		206.68	192.29	128.98	41.30	4.82	1.00	0.25		516.71	480.73	322.44	103.24	12.04	2.49	0.63	7580.2	1.81	0.88
56		108-88-3	Toluene	0.09	21.85	19.44	12.11	2.35	0.37	0.38	0.13	0.00	54.39	48.36	30.05	5.64	0.70	0.71	0.09	511.84	1.68	0.92
57		98-83-9	2-Phenylpropene		6.71	6.18	4.94	3.63	0.76	0.23	0.07		16.77	15.44	12.34	9.07	1.90	0.57	0.18	101.46	1.17	0.80
58		95-13-6	Indene		115.18	118.35	94.82	48.30	14.00	5.57	2.36		287.96	295.87	237.06	120.75	35.00	13.93	5.90	1503.51	1.06	0.88
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester		0.36	0.46	0.44						0.89	1.14	1.10							
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB	0.47	1.13	0.87	1.00	0.54	0.54	0.54	0.47	0.00	1.67	1.01	1.33	0.19	0.20	0.17	0.02	4.76	0.97	0.76

Table A. 41 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		75.09	33.66	3.67						187.74	84.16	9.18							
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride		0.07								0.18									
85		67-66-3	Chloroform		0.46	0.28							1.16	0.70								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.33	18.82	6.06	1.93	0.67	0.60	1.48	0.73	0.00	46.23	14.32	4.00	0.85	0.68	2.89	1.00	16.09	0.64	0.60
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.91	0.88	0.62	0.79	0.20				2.26	2.21	1.55	1.97	0.50			3.62	0.40	0.54
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-						0.16								0.40					
94		1678-91-7	Cyclohexane, ethyl-		0.79	0.68	0.58	1.33	0.30	0.11			1.98	1.70	1.45	3.32	0.76	0.27		3.64	0.42	0.36
95		1678-92-8	Cyclohexane, propyl-			0.33		0.75	0.17	0.08				0.82		1.87	0.43	0.19		1.82	0.36	0.27
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		28.54	28.62	21.16	44.86	13.19	7.46	3.76		71.36	71.56	52.89	112.16	32.98	18.65	9.39	159.22	0.47	0.52
98		99-86-5	alpha-Terpinene		5.15	4.78	4.29	7.18	2.51	0.95	0.49		12.87	11.94	10.73	17.96	6.28	2.37	1.22	33.38	0.55	0.56
99		127-91-3	beta-Pinene		34.94	32.54	24.56	44.94	13.92	7.80	4.22		87.35	81.36	61.41	112.34	34.79	19.50	10.56	184.37	0.49	0.58
100		99-85-4	gamma-Terpinene		0.97	1.24	0.69	1.80	0.64	0.24	0.14		2.42	3.09	1.74	4.50	1.61	0.60	0.35	6.35	0.48	0.48
101		13466-78-9	3-Carene		0.83								2.08									
102		79-92-5	Camphene		2.59	2.82	2.31	3.32	1.39	0.87	1.03		6.48	7.06	5.78	8.29	3.47	2.18	2.58	11.42	0.31	0.61
103		5989-27-5	Limonene		5.50	5.94	4.79	9.80	3.00	1.64	1.20		13.74	14.84	11.98	24.49	7.49	4.10	2.99	30.41	0.40	0.50
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		5.86	4.59	2.07	0.55		0.21			14.66	11.47	5.18	1.37		0.53		30.93	0.96	1.00
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		2.13	2.00	1.33	0.81	0.15				5.32	5.01	3.31	2.04	0.38			14.43	0.82	0.83
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	4.3	45.9	28.7	12.6	5.2	10.4	3.8	4.7		104.0	61.0	20.9	2.2	15.3		1.1	163.66	0.66	0.96
122		50-00-0	Formaldehyde	5.9	80.7	58.2	70.9	0.0	0.0	0.0	0.0		186.9	130.6	162.5							
123		123-38-6	Propanal	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0		3.9									

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	1.4	0.7	0.5	0.4	0.5	0.1	0.0		3.2	1.5	0.9	0.6	0.9			1.57	0.20	0.47

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 42: Small-scale chamber concentration and emission factor for ADH11 (adhesive; water-based)

#		CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96.3 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96.3 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		0.74			0.60			0.45		1.86			1.50			1.12			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		7.64	2.36		1.93	2.02	1.88	1.91		19.09	5.91		4.83	5.05	4.69	4.77	6.22	0.06	0.86
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		2.68	1.34	0.76		0.07				6.71	3.36	1.90		0.18			11.83	1.08	1.00
6		108-95-2	Phenol		3.73	6.98	3.61	2.77	0.89	1.20	0.58		9.31	17.44	9.03	6.93	2.22	2.99	1.45	34.49	0.64	0.90
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.30			0.11					0.76			0.28						
8		67-64-1	Acetone		157.68	53.39	11.31	4.85	1.45	2.47	1.01		394.19	133.48	28.27	12.11	3.62	6.17	2.52	275.24	1.01	0.92
9		98-86-2	Acetophenone		0.84	0.76	1.25	1.17	0.16	0.12	0.05		2.09	1.89	3.14	2.92	0.41	0.29	0.12	9.78	0.80	0.68
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde		12.78	5.73	1.44	0.94	0.27	0.28	0.14		31.94	14.32	3.60	2.36	0.69	0.69	0.34	31.85	0.95	0.94
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane																			
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane								0.16								0.39			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-																			
42		622-96-8	Toluene, 4-ethyl-																			
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-		0.20			0.08		0.08			0.49			0.20		0.21				
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-		0.61	0.22	0.22	0.24	0.16	0.38	0.12		1.51	0.55	0.54	0.60	0.41	0.94	0.29	0.61	0.05	0.03
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene		0.26	0.06	0.11	0.10	0.05	0.10	0.04		0.66	0.15	0.28	0.26	0.13	0.26	0.09	0.24	0.10	0.09
53		91-20-3	Naphthalene		0.36	0.36	0.30	0.19	0.07	0.06	0.04		0.91	0.90	0.75	0.47	0.19	0.15	0.11	2.14	0.61	0.93
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene		0.32	0.17	0.23	0.19		0.03			0.81	0.42	0.57	0.48		0.09		1.35	0.44	0.52
56		108-88-3	Toluene	0.08	0.99	0.29	0.33	0.38	0.20	0.60	0.09	0.00	2.26	0.51	0.61	0.75	0.30	1.29	0.02	1.30	0.42	0.16
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester						0.10								0.24					
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB				0.31								0.78							

Table A. 42 (continued)

#		CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		0.29								0.72									
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		14.61	3.60	0.31						36.53	9.00	0.77							
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.35	19.38	5.55	1.28	1.51	1.13	2.87	0.72	0.00	47.59	13.01	2.33	2.90	1.95	6.31	0.92	10.60	0.39	0.34
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		1.49			0.95					3.72			2.38						
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#		CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.5 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.5 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	6.1	4.4	3.7	3.7	30.9	10.5	5.8	8.1					62.0	11.2		5.2	1.7E+04	1.80	0.95
122		50-00-0	Formaldehyde	6.6	3569.7	3540.5	3545.0	3119.1	27.9	13.7	10.2		8907.7	8834.8	8846.0	7781.2	53.1	17.8	9.1	5.2E+05	2.24	0.80
123		123-38-6	Propanal	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0						2.5					
#		CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.5 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.5 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	0.2		0.0	0.2	0.1	0.1			0.2			0.3						

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 43: Small-scale chamber concentration and emission factor for CAK1a (caulking; acrylic latex & silicone)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol					17.66	9.40	6.20	9.09					547.46	291.50	192.20	281.79	3269.72	0.60	0.69
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	5.03		35.06		71.03	54.00	34.53	72.02	0.00		930.88		2045.98	1517.93	914.55	2076.78			
4		67-63-0	2-Propanol					1.72	0.64	0.36						53.35	19.74	11.06		5050.68	1.43	1.00
5		64-17-5	Ethanol	0.08	2673.77	1719.70	799.55	206.54	56.40	29.23	24.32	0.00	82885	53308	24783	6400.25	1745.80	903.67	751.45	239511	1.26	0.99
6		108-95-2	Phenol																			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone					0.45	0.18							13.85	5.58					
8		67-64-1	Acetone		1627.51	1749.04	485.11	243.86	103.46	55.41	58.82		50453	54220	15038	7559.61	3207.27	1717.76	1823.36	121015	0.94	0.96
9		98-86-2	Acetophenone																			
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone					0.62	0.32	0.22	0.58					19.36	10.02	6.78	18.04	36.46	0.27	0.11
12		100-52-7	Benzaldehyde																			
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.0	496.4	665.2	271.1	357.0	287.5	218.2	367.8	0.0	15386.1	20620.8	8403.7	11066.6	8910.2	6762.4	11401.9	17298.4	0.16	0.34
29		112-40-3	Dodecane		21.9	37.5	14.4	22.4	17.7	13.7	24.5		678.4	1162.3	446.7	695.8	548.0	425.8	758.9	887.4	0.11	0.16
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane					0.3	0.3	0.3	0.5					10.4	9.4	10.0	14.5			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		115.9	165.9	73.2	105.0	83.4	64.6	106.6		3591.8	5144.4	2269.5	3256.4	2585.8	2002.2	3305.8	4247.4	0.12	0.24
34		111-65-9	Octane		8.6	10.6	6.5	7.6	6.2	4.7	7.5		267.2	329.0	201.9	237.1	191.7	145.2	231.2	316.9	0.12	0.40
35		629-62-9	Pentadecane					0.4	0.3	0.4	0.4					11.6	8.6	13.7	11.2			
36		629-59-4	Tetradecane	0.1				0.3	0.2	0.2	0.4	0.0				8.7	4.8	4.3	9.5	9.2	0.09	0.02
37		629-50-5	Tridecane					0.6	0.6	0.5	0.8					19.7	17.2	14.6	25.9			
38		1120-21-4	Undecane		319.8	426.0	178.1	158.3	128.8	98.2	165.0		9913.0	13205.2	5521.8	4907.8	3992.0	3043.8	5113.5	12963.2	0.29	0.65
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet					0.3	0.2	0.2	0.3					9.8	7.1	5.0	8.7	17.7	0.22	0.20
40		611-14-3	Toluene, 2-ethyl-					0.1	0.1	0.0	0.1					2.5	1.9	1.5	3.0	2.3	0.02	0.00
41		620-14-4	Toluene, 3-ethyl-					0.1	0.1	0.1	0.2					3.6	2.7	2.0	4.7			
42		622-96-8	Toluene, 4-ethyl-					0.1	0.1	0.1						2.7	1.7	1.9		7.7	0.35	0.62
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.3				1.6	1.3	1.3	1.3	0.0				42.5	30.4	32.4	32.9	71.6	0.19	0.57
45		526-73-8	Benzene, 1,2,3-trimethyl-					0.5	0.4	0.3	0.4					16.5	11.6	8.0	13.2	38.2	0.29	0.33
46		95-63-6	Benzene, 1,2,4-trimethyl-		2.0	2.8		1.1	0.8	0.6	1.0		62.5	87.0		33.4	24.2	18.9	31.2	50.6	0.16	0.15
47		95-47-6	Benzene, 1,2-dimethyl-					0.2	0.1	0.1	0.1					5.0	3.4	3.0	4.5	7.9	0.18	0.19
48		108-67-8	Benzene, 1,3,5-trimethyl-					0.3	0.2	0.2	0.3					9.8	7.6	4.9	8.0	22.4	0.28	0.33
49		108-38-3	Benzene, 1,3-dimethyl-	0.0				0.6	0.4	0.3	0.5	0.0				18.4	10.7	9.8	13.8	39.7	0.29	0.36
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene	0.0				0.2	0.1	0.1	0.2	0.0				6.4	3.8	3.2	5.2	12.1	0.25	0.24
53		91-20-3	Naphthalene						0.0	0.1	0.0						1.0	2.3	1.3			
54		99-87-6	p-Cymene					0.1	0.1	0.0						2.4	1.9	1.5		8.0	0.38	0.99
55		100-42-5	Styrene	0.0				0.1	0.1	0.1		0.0				2.5	1.5	1.6		10.0	0.45	0.78
56		108-88-3	Toluene	0.3	1.8			0.4	0.3	0.4	0.5	0.0	48.8			4.7		3.5	8.5			
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		14.4	23.8		9.9	4.6	2.9	3.6		446.6	736.4		308.1	141.7	89.2	111.8	1555.9	0.60	0.94
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate					4.7	3.6	2.8	4.7					144.9	111.8	86.5	144.2	194.8	0.12	0.09
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		1057.4	1513.2	1135.1	4105.2	3111.7	2823.1	5630.4		32779.8	46908.5	35187.0	127261	96464	87516.3	174543			
67		6846-50-0	TXIB					2.2	2.1	1.9	3.3					68.3	66.0	59.8	101.0			

Table A. 43 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		3176.9	3907.0	1280.0	383.2	150.7	72.1	88.2		98485.1	121119	39680.7	11880.6	4671.1	2234.2	2734.4	3.6E+05	1.12	0.98
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.7	36.9	13.2						0.0	1120.2	386.2								
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane						0.2	0.1	0.2						5.4	3.6	5.8			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		82.5	121.6	49.6	58.8	46.0	32.1	54.5		2557.7	3768.2	1537.6	1824.3	1426.8	995.6	1688.0	3486.5	0.23	0.52
94		1678-91-7	Cyclohexane, ethyl-		19.3	25.8	10.4	11.6	8.3	6.4	10.2		599.1	798.8	323.5	358.9	257.3	197.2	317.1	772.3	0.26	0.62
95		1678-92-8	Cyclohexane, propyl-		62.4	75.6	34.1	38.9	28.9	23.5	36.1		1933.3	2343.4	1057.0	1206.8	894.5	729.1	1119.4	2205.8	0.21	0.56
96		91-17-8	Decahydronaphthalene		46.7	56.0	24.2	24.4	17.8	13.8	24.9		1446.3	1735.8	749.4	756.9	551.2	427.7	770.8	1681.8	0.26	0.59
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane					0.9	0.4	0.2	0.3					29.4	11.7	7.5	9.9	440.4	0.89	0.82
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide						2.0								61.2					
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde		45.5	29.4	15.8	2.6	4.9	2.1	1.6		1411.7	912.9	489.6	79.6	153.4	64.2	50.2	2288.30	0.83	0.89
122		50-00-0	Formaldehyde		17.8	15.2	10.0	11.7	1.7	0.7	0.7		552.8	470.0	310.0	361.6	52.7	22.4	22.5	2257.80	0.96	0.81
123		123-38-6	Propanal	0.0	1.2	0.0	0.0	0.0	0.0	0.0	3.3		38.3						101.5			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein						1.6	0.5	0.6						48.4	15.0	18.9	12084.9	1.46	0.68

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 44: Small-scale chamber concentration and emission factor forCAK2a (caulking; silicone & polyurethane)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		148.29			29.34	15.75	8.24	6.65		4597.00			909.65	488.21	255.30	206.16	31943.3	1.11	0.98
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.26	210.76	18.72	17.36	119.90	75.64	57.93	52.44	0.00	6525.35	572.15	529.87	3708.86	2336.79	1787.66	1617.40			
4		67-63-0	2-Propanol		55.08	12.62		8.11	3.09	1.04	0.85		1707.46	391.30		251.31	95.72	32.10	26.34	1302.9	0.77	0.79
5		64-17-5	Ethanol		2667.89	2849.43	1387.74	319.27	102.03	53.82	18.18		82704.6	88332.5	43019.9	9897.3	3162.9	1668.5	563.45	4.9E+05	1.36	0.97
6		108-95-2	Phenol	0.57							1.46	0.00							27.76			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.29	2246.80	1687.63	959.61	385.83	131.44	58.32	35.69	0.00	69641.9	52307.8	29739.1	11951.9	4065.7	1799.0	1097.37	2.1E+05	1.08	0.95
9		98-86-2	Acetophenone	0.35	0.99			0.26	0.25	0.50	0.29	0.00	19.66					4.47				
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		1.54			0.43	0.24				47.64			13.25	7.58					
12		100-52-7	Benzaldehyde	0.49	2.61			0.84	0.64	1.00	0.81	0.00	65.83			10.90	4.65	15.77	9.97			
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		50.05	23.66	19.36	23.36	19.45	17.60	14.38		1551.57	733.56	600.02	724.28	603.09	545.70	445.66	806.99	0.09	0.51
29		112-40-3	Dodecane		5.17			1.63	1.30	1.24	0.90		160.37			50.48	40.27	38.40	27.78	174.77	0.38	0.87
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		10.40	6.42		6.25	5.08	4.74	3.91		322.30	199.13		193.73	157.51	147.00	121.19	245.09	0.12	0.70
34		111-65-9	Octane		3.93								121.90									
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane		0.30								9.39									
37		629-50-5	Tridecane						0.08								2.36					
38		1120-21-4	Undecane		28.52	15.32	13.88	13.11	10.03	8.59	7.14		884.15	474.81	430.38	406.39	311.03	266.25	221.49	629.95	0.20	0.85
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-					0.03								0.95						
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-		0.14								4.25									
42		622-96-8	Toluene, 4-ethyl-		0.10								3.13									
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	1.10	2.58	24.21		1.38	0.89	1.35	0.95	0.00	45.96	716.37		8.80		7.74		2744.10	1.52	0.90
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.14								4.47									
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.32								9.84									
47		95-47-6	Benzene, 1,2-dimethyl-	0.10	0.39					0.05	0.08	0.00	9.09									
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.12								3.58									
49		108-38-3	Benzene, 1,3-dimethyl-	0.15	2.25			0.34	0.24	0.21	0.33	0.00	65.13			5.76	2.72	1.79	5.43	11.10	0.29	0.10
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-	0.04								0.00										
52		100-41-4	Ethylbenzene	0.07	0.57			0.09	0.07	0.08	0.10	0.00	15.44			0.61	0.03	0.32	0.96			
53		91-20-3	Naphthalene	0.08	0.25				0.03			0.00	5.12									
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.56	0.21			0.08	0.10	0.16	0.14	0.00										
56		108-88-3	Toluene	0.88	1.85	2.04		0.38	0.29	0.34	1.24	0.00	30.20	35.99					11.20			
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester		1.33			0.54					41.38			16.72						
62		141-78-6	Acetic acid, ethyl ester		218.87	44.85	26.92	39.67	19.83	12.10	7.32		6784.90	1390.26	834.48	1229.91	614.88	375.15	226.84	2337.59	0.41	0.67
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		31.95	11.39	5.55	13.12	9.87	8.02	7.15		990.39	353.18	172.00	406.87	305.90	248.70	221.70	291.89	0.02	0.01
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		20.09			60.71	50.08	54.09	55.95		622.91			1882.09	1552.57	1676.70	1734.49	2158.29	0.06	0.20
67		6846-50-0	TXIB		0.27			0.19	0.20		0.17		8.50			5.84	6.05		5.25	7.68	0.08	0.52

Table A. 44 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		3827.99	3568.91	1727.96	682.68	293.14	135.38	89.70		118668	110637	53566.8	21163.0	9087.5	4196.7	2780.7	3.7E+05	1.02	0.97
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.30								9.17									
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.29								8.95									
89		79-01-6	Trichloroethylene		62.50	10.79					0.66		1937.39	334.36					20.37			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		6.97	4.13		3.45	2.96	2.60	2.11		216.06	127.95		106.80	91.82	80.70	65.43	163.90	0.17	0.84
94		1678-91-7	Cyclohexane, ethyl-		2.04			0.71	0.57	0.52	0.42		63.30			21.93	17.63	16.05	12.96	68.73	0.35	0.95
95		1678-92-8	Cyclohexane, propyl-		4.91	3.36		2.34	1.78	1.74	1.24		152.32	104.23		72.41	55.13	53.85	38.48	145.87	0.26	0.90
96		91-17-8	Decahydronaphthalene		3.23	2.08		1.38	1.04	1.02	0.82		99.98	64.53		42.91	32.28	31.50	25.41	88.33	0.25	0.96
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		12.09			1.60	0.78	0.42	0.43		374.86			49.54	24.08	12.90	13.27	1266.46	1.03	0.95
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		10.17	3.28		3.37	2.40	2.02	1.68		315.37	101.70		104.44	74.40	62.55	52.06	139.13	0.18	0.66
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide						2.78	2.63	3.39						86.19	81.45	105.24			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde		34.2	24.1	15.1	1.0	3.4	1.6	1.2		1058.7	747.1	467.7	31.8	104.7	48.5	35.9	1986.55	0.90	0.78
122		50-00-0	Formaldehyde		25.1	17.8	15.7	2.9	0.8	3.5	1.9		778.9	551.5	488.0	89.5	25.5	109.3	57.8	1488.02	0.78	0.73
123		123-38-6	Propanal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0											

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein						1.1	0.1	0.6						34.2	3.8	18.7	2085.4	1.19	0.13

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 45: Small-scale chamber concentration and emission factor for CAK5a (caulking; silicone)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.52				2.12	1.90	1.47	2.98	0.00				49.51	42.99	29.63	76.20			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol					4.23	2.13	4.10	3.05					131.13	66.07	127.17	94.49	164.88	0.12	0.05
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.10	39.04	32.07			9.61	3.79	6.13	0.00	1207.26	991.18			295.01	114.41	186.91	1830.70	0.54	0.88
9		98-86-2	Acetophenone	0.11	4.68	2.94		0.47	0.54	0.53	0.76	0.00	141.81	87.69		11.01	13.37	13.15	20.03	109.66	0.50	0.66
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.14				0.80	0.62	0.78	0.80	0.00				20.33	14.99	19.87	20.60			
13		123-72-8	Butanal					21.06	12.55	3.91	5.00					652.71	389.08	121.09	155.12	31952.7	1.21	0.85
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		15.39	7.80	5.33	5.55	3.32	1.87	1.92		477.13	241.79	165.13	172.05	103.06	58.00	59.52	386.85	0.38	0.83
29		112-40-3	Dodecane					2.63	2.63	2.14	3.49					81.38	81.41	66.34	108.25			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane			5.74		14.33	14.76	14.17	27.92			178.01		444.08	457.58	439.36	865.46			
32		110-54-3	Hexane		11.77	9.30		0.96					364.99	288.20		29.76						
33		111-84-2	Nonane																			
34		111-65-9	Octane		76.24	61.78	37.54	20.91	4.03	0.78			2363.36	1915.25	1163.78	648.21	124.81	24.33		10464.1	1.21	0.84
35		629-62-9	Pentadecane			6.84		18.14	19.61	18.00	33.63			212.15		562.34	607.91	557.90	1042.53			
36		629-59-4	Tetradecane					0.49	0.44	0.51	0.95					15.19	13.52	15.70	29.39			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		9.10					0.16	0.20		282.01					5.09	6.32			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-																			
42		622-96-8	Toluene, 4-ethyl-		5.39	4.26	4.22	4.62	3.27	2.52	3.43		167.13	132.07	130.96	143.22	101.33	78.08	106.21	160.14	0.11	0.48
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.40				1.76	0.72	1.26	2.77	0.00				41.85	9.91	26.63	73.38			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-					0.91	0.45	0.21	0.35					28.06	13.82	6.37	10.79	407.36	0.87	0.72
47		95-47-6	Benzene, 1,2-dimethyl-					0.21	0.07		0.10					6.36	2.24		2.98	28.98	0.55	0.49
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-			2.33	1.44	0.78	0.25	0.09	0.36			72.17	44.53	24.18	7.72	2.83	11.16	174.76	0.76	0.79
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene			0.86	0.52	0.22	0.09	0.04	0.13			26.69	16.23	6.67	2.74	1.27	3.91	60.09	0.75	0.85
53		91-20-3	Naphthalene					0.13	0.10	0.09	0.15					3.88	3.05	2.69	4.65			
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.05				0.20	0.24	0.33		0.00				4.78	5.90	8.76				
56		108-88-3	Toluene	0.03	622.61	496.24	271.54	84.89	8.44	1.57	0.78	0.00	19300	15382.3	8416.8	2630.6	260.71	47.79	23.16	2.2E+05	1.85	0.91
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB					3.43	3.74	3.23	7.48					106.18	116.07	100.01	231.76			

Table A. 45(continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene					0.08								2.33						
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		38.34	9.95	2.32						1188.53	308.53	71.90							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		8.25	6.58		1.39	0.30				255.79	203.93		43.09	9.25			711.84	1.03	0.92
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid					149.63	43.22	26.67	16.01					4638.54	1339.71	826.66	496.25	6.9E+05	1.59	0.99
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		2.87	2.43	1.85	1.27	0.45	0.15	0.08		88.85	75.27	57.36	39.37	13.92	4.67	2.42	306.24	0.92	0.84
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde						0.0	0.6	0.7						1.1	19.5	20.8			
122		50-00-0	Formaldehyde		49.4	69.3	67.3	58.9	50.2	29.0	18.6		1531.4	2149.1	2086.0	1826.0	1557.2	898.8	576.7	3968.41	0.33	0.71
123		123-38-6	Propanal	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0		56.9									
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein							0.1	0.5							2.6	16.8			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 46: Small-scale chamber concentration and emission factor for CAK13a (caulking; subfloor)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
1	Alcohols	71-36-3	1-Butanol	2.1								0.0										
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	5.9								0.0										
4		67-63-0	2-Propanol		2573.7	1527.8	799.0	207.0	51.5	24.1	13.1		79786	47362	24769.8	6417.8	1595.2	747.4	405.3	2.8E+05	1.36	0.97
5		64-17-5	Ethanol		57896.6	32741.1	18913.1	4597.9	384.8	217.2	148.8		1794799	1014977	586307	142536	11930.0	6733.8	4611.5	9.8E+06	1.65	0.95
6		108-95-2	Phenol	3.5								0.0										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.9	26828.2	15850.7	8841.2	2210.0	522.1	248.3	151.7	0.0	831648	491343	274050	68480	16154.8	7667.1	4674.70	2.9E+06	1.36	0.97
9		98-86-2	Acetophenone	0.4								0.0										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.6								0.0										
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		7553.9	4837.9	2609.2	709.7	228.9	140.2	87.4		234172	149975	80885.2	22000.1	7097.0	4345.6	2709.7	6.3E+05	1.16	0.99
25		96-14-0	Pentane, 3-methyl-		9754.1	6011.8	3308.2	964.8	284.5	165.2	101.0		302379	186365	102555	29908.8	8818.8	5120.2	3129.6	8.3E+05	1.18	0.98
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane		2418.9								74986.8									
28		124-18-5	Decane	0.3	2270.3	1177.5	673.6	78.5				0.0	70372.0	36494.2	20872.8	2425.9				1.9E+05	1.35	0.98
29		112-40-3	Dodecane		103.0	59.0							3194.3	1829.7								
30		142-82-5	Heptane		61065.7	37139.1	21617.2	7371.1	2275.9	1331.0	797.4		1893041	1151314	670135	228503	70552.5	41259.7	24719.6	4.7E+06	1.10	0.97
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		36653.9	22150.0	12637.2	3847.3	1008.5	542.3	327.4		1136274	686651	391754	119266	31262.0	16812.6	10150.5	3.4E+06	1.22	0.97
33		111-84-2	Nonane	0.1	623.3	236.4	103.8					0.00	19318.6	7325.7	3216.0							
34		111-65-9	Octane																			
35		629-62-9	Pentadecane	0.3								0.00										
36		629-59-4	Tetradecane	2.3								0.00										
37		629-50-5	Tridecane	0.2								0.00										
38		1120-21-4	Undecane	0.1	1172.5	738.2	632.4	114.0				0.00	36341.8	22880.7	19601.7	3528.75				80989.6	0.96	0.94
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		20.7	12.9			1.8	1.2			641.5	400.9			54.3	36.3		929.9	0.75	1.00
40		611-14-3	Toluene, 2-ethyl-		156.9	79.8	43.5	15.9	8.9	6.4	4.9		4863.6	2474.1	1349.8	491.8	276.2	198.2	152.4	5881.1	0.79	1.00
41		620-14-4	Toluene, 3-ethyl-		369.0	194.2	99.0	35.0	23.4	13.3	10.7		11440.3	6019.8	3069.2	1083.7	724.8	412.6	333.2	14332.8	0.81	0.99
42		622-96-8	Toluene, 4-ethyl-	0.0	150.5	95.4	60.9	19.3	11.2	6.5	3.6	0.0	4664.8	2956.1	1886.3	596.2	346.2	202.2	110.5	9203.8	0.90	0.98
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		226.1	202.9	198.3			36.6	36.8		7009.7	6289.5	6148.4			1135.4	1142.0	13624.0	0.56	0.97
45		526-73-8	Benzene, 1,2,3-trimethyl-		144.3	89.3	49.2	17.3	9.2	7.0	6.6		4474.4	2768.6	1524.5	535.5	284.6	217.6	205.1	6303.5	0.78	1.00
46		95-63-6	Benzene, 1,2,4-trimethyl-		598.0	310.5	193.0	55.9	28.1	23.3	16.7		18537.5	9626.7	5982.4	1733.0	872.5	723.3	516.6	26066.7	0.86	1.00
47		95-47-6	Benzene, 1,2-dimethyl-		650.5	388.8	231.4	80.8	42.0	27.9	19.5		20164.5	12054.1	7173.4	2503.7	1303.3	864.1	605.1	33050.7	0.85	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		172.5	94.1	40.7	15.2	9.7	6.9	5.9		5347.7	2917.3	1261.7	471.4	300.0	213.5	183.1	5957.1	0.78	0.99
49		108-38-3	Benzene, 1,3-dimethyl-	0.1	1881.8	1167.0	705.2	266.4	112.8	72.9	52.1	0.0	58332.6	36175.1	21859.0	8255.8	3494.1	2257.8	1613.6	1.1E+05	0.89	0.99
50		98-82-8	Benzene, isopropyl		37.0	18.0	9.1		3.0	1.7			1147.4	556.9	283.0		91.7	52.8		1098.8	0.68	0.98
51		103-65-1	Benzene, propyl-		121.6	71.7	29.6	18.1	5.1	4.7			3768.7	2223.3	916.7	560.8	158.7	146.5		5233.6	0.84	0.94
52		100-41-4	Ethylbenzene	0.0	619.3	368.3	220.7	76.5	40.7	24.0	19.1	0.0	19197.1	11416.1	6842.0	2370.7	1262.2	743.1	591.1	31707.7	0.86	0.99
53		91-20-3	Naphthalene	0.1	549.1	421.0	298.8	182.1	136.6	124.1	91.3	0.0	17018.7	13047.3	9258.3	5641.1	4230.1	3844.0	2826.4	20221.0	0.41	0.99
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.1	324.2	186.1	114.6	35.3	20.6	13.4		0.0	10045.6	5765.2	3547.5	1091.5	635.9	410.8		15145.5	0.83	1.00
56		108-88-3	Toluene	0.3	1468861	1172325	907751	380308	140423	89686	73151.5	0.0	4.6E+07	3.6E+07	2.8E+07	1.2E+07	4.4E+06	2.8E+06	2.3E+06	1.1E+08	0.84	0.97
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		189.6	136.8	99.1	47.1	22.7	17.2	13.8		5878.3	4239.6	3072.0	1458.9	704.8	533.6	429.0	9972.3	0.67	0.98
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		1020.5	483.4	280.3	52.9					31636.9	14986.0	8687.8	1640.7				54786.0	1.09	0.99
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	30.79								0.00										
67		6846-50-0	TXIB	4.57								0.00										

Table A. 46 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3.1 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol	7.97								0.00										
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-	1.91								0.00										
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		288.72	48.11		31.98	22.73	6.45			8950.19	1491.46		991.39	704.77	199.91		3167.90	0.50	0.65
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		6679.25	3780.81	2020.99	695.73	227.38	163.27	107.44		207057	117205	62650.7	21567.6	7048.9	5061.3	3330.6	402982	1.02	0.99
92		110-82-7	Cyclohexane		1031.93	599.25	359.51	106.10	36.09	23.22	16.36		31989.8	18576.9	11144.8	3289.1	1118.8	719.9	507.2	70324.3	1.06	0.99
93		1678-93-9	Cyclohexane, butyl-		147.44	79.29							4570.6	2458.1								
94		1678-91-7	Cyclohexane, ethyl-			43.60								1351.5								
95		1678-92-8	Cyclohexane, propyl-		124.16								3848.9									
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.4 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.4 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
113	DNPH	75-07-0	Acetaldehyde	0.8	170.2	105.7	72.0	18.4	7.6	9.0	9.3		5253.7	3251.7	2206.8	547.5	212.6	254.3	263.7	9164.07	0.85	0.95
114		50-00-0	Formaldehyde	1.3	5.0	0.0	3.9	2.9	1.4	2.3	2.4		115.6		82.3	51.3	3.3	33.1	36.1	165.92	0.50	0.19
115		123-38-6	Propanal		1.5								47.3									
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.4 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.4 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
118	PFP	107-02-8	Acrolein	0.5	213.1	6.9	11.4	10.1	3.9	4.8	1.5		6590.8	198.4	339.8	299.5	107.0	133.5	31.0	607.85	0.45	0.50

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 47: Small-scale chamber concentration and emission factor for CAK16a (caulking; removable)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	1.56								0.00										
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol																			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone																			
9		98-86-2	Acetophenone																			
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde																			
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		12.58								390.03									
25		96-14-0	Pentane, 3-methyl-		19.00	17.78							588.94	551.15								
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane																			
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		63.89	56.45	27.97						1980.52	1749.81	867.07							
33		111-84-2	Nonane																			
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane																			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-						0.8								25.2					
40		611-14-3	Toluene, 2-ethyl-			10.0	6.7	4.2	2.5	1.6				310.9	206.5	131.6	78.0	50.0		570.7	0.53	0.96
41		620-14-4	Toluene, 3-ethyl-		266.4	276.5	255.3	156.9	71.7	39.9	16.4		8259.2	8571.2	7914.6	4864.1	2221.7	1236.7	507.6	2.7E+04	0.73	0.84
42		622-96-8	Toluene, 4-ethyl-		79.1	71.3	80.3	46.0	22.3	14.8	5.7		2452.3	2211.7	2489.9	1425.4	692.4	458.7	176.3	6827.5	0.66	0.81
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.4				39.1				0.0				1199.3						
45		526-73-8	Benzene, 1,2,3-trimethyl-			9.2								285.4								
46		95-63-6	Benzene, 1,2,4-trimethyl-			28.9	11.2	5.5	2.7	1.8				895.3	345.7	169.2	84.6	55.7		1892.2	0.81	0.98
47		95-47-6	Benzene, 1,2-dimethyl-	0.0	52581.9	43908.4	42857.0	32183.6	13120.8	5267.1	1496.4	0.0	1.6E+06	1.4E+06	1.3E+06	997694	406744	163279	46386.3	5.6E+06	0.83	0.73
48		108-67-8	Benzene, 1,3,5-trimethyl-		14.4	25.2	11.3	10.2	4.8	2.7	1.4		445.3	781.2	350.0	316.1	148.6	83.7	44.0	1698.9	0.70	0.88
49		108-38-3	Benzene, 1,3-dimethyl-	0.1	85733.2	71656.6	69610.3	48997.2	19723.1	12851.0	3652.3	0.0	2.7E+06	2.2E+06	2157920	1518914	611414	398379	1.1E+05	7.5E+06	0.73	0.77
50		98-82-8	Benzene, isopropyl		1773.8	1716.2	1692.0	772.3	280.1	119.8	38.6		54988.1	53202.3	52451.2	23940.6	8683.2	3714.1	1195.4	2.7E+05	1.00	0.85
51		103-65-1	Benzene, propyl-		329.1	329.7	328.7	167.9	75.0	37.2	14.6		10201.1	10219.7	10188.8	5205.3	2325.6	1153.9	453.8	3.9E+04	0.82	0.85
52		100-41-4	Ethylbenzene	0.0	45709.1	38222.7	36675.4	25805.2	9643.8	2833.6	664.2	0.0	1416983	1184905	1136939	799962	298958	87841.6	2.1E+04	6.5E+06	0.99	0.73
53		91-20-3	Naphthalene																			
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene																			
56		108-88-3	Toluene	0.1	3772.5	3407.1	2349.9	248.2	25.8	5.9		0.0	116944	105617	72845.0	7690.3	798.1	181.6		1.7E+06	1.98	0.94
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 47 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		16.32								506.03									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane		175.93	141.79	83.85						5453.82	4395.50	2599.36							
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-		95.67	98.88	78.16	22.85	5.03				2965.71	3065.35	2422.96	708.27	156.07			12503.4	1.04	0.92
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > ** h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	2.5	15.0	16.8	17.9	6.3	1.4	1.1	16.3		389.2	445.4	478.3	118.1			429.4	442.75	0.12	0.06
122		50-00-0	Formaldehyde		0.1	0.3	1.8				1.7		4.2	10.6	54.9				52.6			
123		123-38-6	Propanal	0.0	13.2	9.8	6.7	0.0	0.0	0.0	4.5		410.3	304.2	206.3				140.3	353.13	0.21	0.88
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein					0.5	2.0	0.7	1.0					14.2	63.0	22.7	29.7			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 48: Small-scale chamber concentration and emission factor for CAK24a (caulking; acoustical)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.8								0.0										
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol			1.1			0.3					34.8			9.6					
6		108-95-2	Phenol																			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone			1.0		9.8	3.4	0.7				31.9		302.7	106.9	22.0				
9		98-86-2	Acetophenone	0.1								0.0										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde																			
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane			0.7		0.2						21.8		6.8						
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		12879.4	11155.7	9672.4	3588.6	3234.6	2624.6	1716.1		399262	345828	299843	111248	100273	81362.3	53198.4	6.7E+05	0.52	0.97
29		112-40-3	Dodecane		106.3	198.7	100.5	135.3	107.2	99.6	42.3		3296.5	6160.2	3116.8	4195.1	3322.9	3088.9	1309.8	7269.1	0.26	0.52
30		142-82-5	Heptane			18.3		4.5	3.1	2.2				566.3		140.5	94.6	66.7		1173.4	0.66	1.00
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		11762.2	10028.9	7265.6	3284.0	1974.8	1623.9	954.7		364630	310895	225235	101806	61218.7	50340.1	29597.2	6.9E+05	0.64	0.98
34		111-65-9	Octane		810.8	1120.0	484.2	319.6	202.3	150.1	56.4		25135.3	34721.3	15011.1	9907.7	6272.5	4654.1	1747.6	69523.8	0.69	0.89
35		629-62-9	Pentadecane						0.6	0.5							17.8	15.6				
36		629-59-4	Tetradecane			1.0			1.1	0.9				32.2			32.9	28.0		33.4	0.02	0.24
37		629-50-5	Tridecane			2.9		2.6	2.6	2.2				90.9		82.0	80.1	68.9		100.0	0.07	0.78
38		1120-21-4	Undecane		4955.9	4440.9	4329.1	1837.4	1801.8	1512.7	1150.8		153633	137670	134203	56959.0	55855.1	46894.2	35673.5	2.3E+05	0.39	0.95
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		172.5	194.0	128.5	96.3	71.8	57.4	31.9		5349.0	6015.5	3983.3	2986.0	2226.7	1780.4	987.5	9743.4	0.43	0.90
40		611-14-3	Toluene, 2-ethyl-		320.3	398.1	190.6	117.5	82.2	61.8	29.0		9930.8	12340.4	5907.3	3641.3	2549.0	1917.3	899.9	22802.2	0.62	0.92
41		620-14-4	Toluene, 3-ethyl-		1299.0		759.7	386.0	270.1	198.4	108.1		40269.7		23551.5	11965.1	8372.4	6150.4	3349.7	81583.1	0.63	0.93
42		622-96-8	Toluene, 4-ethyl-		424.7	638.4	279.3	231.5	156.6	119.3	40.3		13166.5	19791.9	8657.1	7176.7	4855.9	3699.2	1249.0	35530.5	0.60	0.82
43		31017-40-0	Cyclohexene, 4-phenyl			1.3		1.1	1.0	0.9				40.2		33.8	30.3	26.9		46.6	0.12	0.93
44		71-43-2	Benzene	0.5		1.7		2.4	1.1	0.8		0.0		37.7		58.9	19.6	11.6		69.6	0.31	0.37
45		526-73-8	Benzene, 1,2,3-trimethyl-		818.1	997.3	512.9	327.0	233.7	176.7	88.7		25362.2	30917.4	15901.1	10137.5	7244.4	5476.2	2750.6	55233.3	0.58	0.93
46		95-63-6	Benzene, 1,2,4-trimethyl-		3662.8	2572.3	2301.5	1395.5	910.2	732.5	369.9		113547	79741.6	71347.5	43260.5	28216.9	22707.8	11467.7	1.6E+05	0.49	0.89
47		95-47-6	Benzene, 1,2-dimethyl-	0.0	780.1	914.7	414.9	249.0	166.0	122.5	54.4	0.0	24181.2	28353.9	12859.3	7717.1	5144.4	3796.5	1683.9	55274.8	0.67	0.92
48		108-67-8	Benzene, 1,3,5-trimethyl-		1686.8	1153.7	1014.8	637.4	416.0	333.8	161.6		52291.8	35763.7	31459.3	19760.7	12895.6	10349.3	5008.5	73397.3	0.49	0.88
49		108-38-3	Benzene, 1,3-dimethyl-	0.2	1883.3	1476.3	1033.7	642.5	416.8	304.6	111.5	0.0	58377.9	45760.4	32039.8	19911.8	12915.5	9437.6	3452.6	1.0E+05	0.61	0.86
50		98-82-8	Benzene, isopropyl		142.1	167.2	77.4	45.5	31.1	23.2	10.6		4404.5	5184.1	2400.1	1411.6	965.3	719.8	328.1	9954.4	0.66	0.93
51		103-65-1	Benzene, propyl-		319.5	414.3	182.4	116.7	80.4	59.5	25.5		9903.3	12843.5	5655.5	3618.0	2493.5	1845.2	792.0	24013.6	0.65	0.91
52		100-41-4	Ethylbenzene	0.0	165.7	211.7	95.6	57.0	36.1	26.0	9.5	0.0	5133.9	6559.9	2963.6	1766.0	1116.3	804.1	293.7	14128.7	0.73	0.90
53		91-20-3	Naphthalene		14.4	19.2	11.8	12.1	9.3	7.1	3.6		446.8	596.4	365.2	374.1	288.3	221.6	112.0	862.6	0.35	0.74
54		99-87-6	p-Cymene		133.1	161.2	83.1	55.9	40.1	30.4	15.2		4124.9	4998.4	2575.2	1733.4	1243.4	943.3	470.8	8720.6	0.56	0.91
55		100-42-5	Styrene																			
56		108-88-3	Toluene	0.9	97.5	136.1	48.5	33.4	22.8	15.7	6.5	0.0	2995.3	4192.3	1476.3	1007.9	680.3	460.9	175.7	8002.4	0.72	0.88
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate			6.1								188.4								
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 48 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		12.4								384.2									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		59.6	76.5	32.1	19.6	13.5	9.8	4.1		1848.5	2371.7	994.6	607.1	419.0	303.8	126.8	4556.7	0.68	0.91
92		110-82-7	Cyclohexane			0.8			0.2	0.1				24.5			6.2	3.8		45.7	0.55	0.98
93		1678-93-9	Cyclohexane, butyl-		1343.3	1676.6	927.3	632.1	414.9	340.5	176.7		41642.4	51975.3	28747.8	19594.7	12863.1	10555.4	5479.2	91404.5	0.54	0.93
94		1678-91-7	Cyclohexane, ethyl-		917.1	1004.8	503.3	261.7	173.5	129.0	56.2		28431.4	31150.3	15603.5	8112.6	5377.1	3998.6	1743.2	65860.4	0.70	0.94
95		1678-92-8	Cyclohexane, propyl-		2103.2	2141.4	1177.7	663.6	446.8	340.5	156.4		65198.4	66382.1	36509.6	20572.0	13849.5	10554.9	4847.7	1.3E+05	0.64	0.93
96		91-17-8	Decahydronaphthalene		590.5	687.1	372.8	250.1	180.2	141.0	73.4		18306.0	21301.2	11557.3	7753.0	5586.7	4371.9	2274.3	36480.2	0.53	0.92
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	2.1	5.9	6.7	7.6	5.6	1.1	0.4	1.3		119.9	145.0	171.6	109.5				203.8	0.18	0.59
122		50-00-0	Formaldehyde				0.0								0.3							
123		123-38-6	Propanal	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6								18.5			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein						0.4	0.2	0.3						11.3	6.5	8.5	62.8	0.47	0.36

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 49: Small-scale chamber concentration and emission factor for CAK31 (caulking; subfloor; green)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72.1 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72.1 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		155.5	102.3	40.4	17.4	12.0	7.6	10.4		4820.1	3172.5	1251.9	537.9	372.4	235.4	320.9	5265.5	0.68	0.95
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.6	90.9	55.9	20.3	11.6	9.1	6.1	9.8	0.0	2799.7	1714.0	609.2	339.7	262.1	170.8	283.9	2198.4	0.54	0.86
4		67-63-0	2-Propanol		320.3	183.9	71.2	23.0	12.0	5.3	4.5		9928.1	5700.2	2207.2	712.9	372.0	164.1	140.3	16894.4	1.04	0.99
5		64-17-5	Ethanol		785.4	447.8	178.3	49.9	13.2	11.2	4.5		24346.0	13883.2	5526.5	1548.0	407.8	346.9	140.7	57747.5	1.25	0.98
6		108-95-2	Phenol			2.0	1.6	3.5						60.6	48.3	108.5						
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone		1813.5	1258.3	584.9	155.0	55.2	22.9	13.8		56218.4	39005.9	18132.9	4804.6	1712.7	708.4	429.0	1.8E+05	1.27	0.98
9		98-86-2	Acetophenone	0.1	4.5	2.8	2.3	0.9	0.5	0.7	0.4	0.0	137.6	84.2	68.8	26.1	12.5	19.4	10.9	172.6	0.59	0.93
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		0.8	0.4	0.3						25.6	12.6	10.0							
12		100-52-7	Benzaldehyde	0.1	3.7	2.1	1.6	1.5	0.7	0.9	0.7	0.0	109.7	61.0	43.9	41.3	16.0	22.2	16.2	93.1	0.37	0.83
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal			2.4								73.4								
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane								0.1								2.9			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		0.8	0.5	0.3	0.3	0.2	0.2	0.2		25.3	15.3	10.6	10.5	6.4	5.8	6.3	19.4	0.26	0.88
29		112-40-3	Dodecane																			
30		142-82-5	Heptane		0.2								7.3									
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		0.9	0.4	0.4	0.3	0.2	0.2	0.1		27.2	13.6	12.6	9.6	7.4	5.5	4.5	21.3	0.31	0.91
34		111-65-9	Octane																			
35		629-62-9	Pentadecane	0.1	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.0	5.9	3.9	2.7	6.2	4.7	4.4	5.7			
36		629-59-4	Tetradecane	0.6	0.8	0.9	0.8	1.2	1.3	1.0	1.5	0.0	6.1	9.3	4.3	19.5	20.5	13.6	27.4			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane			0.1	0.1		0.1					3.2	3.4		1.6			4.8	0.27	0.91
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.1	0.0							2.5	1.4								
40		611-14-3	Toluene, 2-ethyl-		8.9	5.3	2.8	2.3	1.6	1.1	1.2		275.4	163.0	85.4	71.3	50.4	34.8	36.1	223.4	0.40	0.93
41		620-14-4	Toluene, 3-ethyl-		21.6	13.0	7.0	5.9	4.2	2.8	3.0		669.2	402.1	216.2	183.5	129.5	86.3	94.2	552.0	0.40	0.92
42		622-96-8	Toluene, 4-ethyl-		15.0	8.2	5.1	4.4	3.0	2.0	2.1		465.0	255.1	158.2	136.2	93.2	63.1	66.5	364.8	0.37	0.93
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.3	2.1	1.8	1.6	1.5	1.4	2.0	1.4	0.0	54.9	44.1	39.7	36.4	33.5	51.4	33.6	43.1	0.03	0.06
45		526-73-8	Benzene, 1,2,3-trimethyl-		4.4	2.7	1.3	1.3	0.9	0.6	0.6		137.8	83.7	41.2	39.7	27.1	18.8	17.6	112.1	0.39	0.90
46		95-63-6	Benzene, 1,2,4-trimethyl-		37.1	21.9	11.6	10.5	7.2	4.9	5.1		1149.7	680.2	360.4	325.6	224.4	152.9	159.3	922.3	0.39	0.91
47		95-47-6	Benzene, 1,2-dimethyl-		2.5	1.5	0.8	0.6	0.4	0.3	0.3		78.1	46.0	25.4	20.1	13.8	9.9	9.5	66.5	0.42	0.95
48		108-67-8	Benzene, 1,3,5-trimethyl-		10.6	6.3	3.3	2.8	2.0	1.3	1.3		327.6	194.6	100.9	86.0	62.5	41.5	41.5	267.7	0.41	0.92
49		108-38-3	Benzene, 1,3-dimethyl-		1.3	0.8	0.5	0.3	0.3	0.2	0.2		41.1	23.9	14.2	9.9	7.8	6.7	6.8	30.7	0.35	0.96
50		98-82-8	Benzene, isopropyl		1.3	0.7	0.4	0.3	0.2	0.2	0.2		38.8	23.1	12.6	10.2	7.4	4.9	5.3	32.3	0.41	0.94
51		103-65-1	Benzene, propyl-		7.4	4.6	2.5	2.2	1.5	1.1	1.1		230.0	142.8	77.0	67.7	47.4	32.7	34.3	193.2	0.38	0.92
52		100-41-4	Ethylbenzene		0.3	0.2	0.1	0.1	0.1	0.1	0.1		10.1	6.2	4.5	2.3	2.1	2.6	2.1	7.7	0.30	0.87
53		91-20-3	Naphthalene		0.2	0.1	0.0		0.0	0.1	0.1		5.5	2.5	1.5		1.4	1.7	1.7	2.2	0.08	0.34
54		99-87-6	p-Cymene		0.1	0.1	0.0		0.0		0.0		4.0	2.3	1.4		1.1		0.7	2.9	0.30	0.88
55		100-42-5	Styrene		0.4	0.2	0.2		0.1		0.1		12.2	7.2	6.6		3.9		3.9	9.1	0.20	0.96
56		108-88-3	Toluene	0.1	1.7	1.1	0.8	0.4	0.3	2.4	0.5	0.0	47.6	28.6	19.0	8.7	6.3	70.1	10.7	23.2	0.10	0.03
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est		1.7	1.2	0.4		0.2				51.7	37.5	13.0		5.3			58.1	0.64	0.89
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester		28.6	17.5	9.5	7.5	4.9	3.5	3.5		886.0	541.8	294.4	232.4	152.8	108.5	109.9	790.7	0.44	0.95
62		141-78-6	Acetic acid, ethyl ester		856.2	493.9	230.4	109.4	48.2	18.6	13.7		26542.6	15310.9	7141.4	3390.1	1493.9	578.1	425.9	4.9E+04	0.98	0.95
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	1.2	2864.3	2574.0	1477.2	524.9	319.4	181.5	250.4	0.0	88757.8	79759.5	45756.7	16236.1	9864.4	5590.9	7725.7	1.7E+05	0.74	0.97
67		6846-50-0	TXIB	0.8	3.7	4.8	3.0	2.8	2.7	2.1	3.0	0.0	88.1	124.4	67.0	60.0	58.7	39.3	66.3	122.5	0.20	0.58

Table A. 49 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.1 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.1 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		5.5	11.9	22.5	16.1	8.0	5.8	9.8		171.1	368.5	696.8	498.2	248.1	178.6	304.0	705.5	0.23	0.43
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		1203.9	695.5	262.7	100.7	58.0	28.8	22.9		37319.7	21561.7	8145.2	3120.7	1799.4	892.2	709.7	5.4E+04	0.93	0.98
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.2	0.0							5.9	1.5								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.2								5.2									
89		79-01-6	Trichloroethylene		29.6	2.4							916.4	74.3								
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		0.4								11.9									
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		4.6	3.3	1.5	0.4	0.3	0.4	0.2		143.9	103.3	47.7	12.8	10.6	11.7	7.1	186.4	0.72	0.94
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		17.8	10.3	5.2	4.1	2.7	1.5	1.3		553.0	318.8	161.8	127.7	82.2	47.3	41.4	537.5	0.53	0.93
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide	0.7		3.6	2.7	2.5	4.9	6.8	4.4	0.0		89.1	60.4	55.2	128.9	189.0	114.6			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
113	DNPH	75-07-0	Acetaldehyde		2.7	1.7			2.1	0.8	0.9		85.2	53.1			66.4	24.5	28.0	73.18	0.18	0.30
114		50-00-0	Formaldehyde		5.8	5.8	2.2	2.2	0.6	0.6	1.1		181.2	178.5	68.3	68.2	19.1	17.3	33.1	296.64	0.59	0.77
115		123-38-6	Propanal	0.0	2.8	2.7	0.0	0.0	1.4	0.0	0.0		87.7	82.3			43.4					

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
118	PFP	107-02-8	Acrolein					2.1	0.3	0.3	0.1					64.4	9.7	9.9	2.1	8.0E+04	2.24	0.90

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 50: Small-scale chamber concentration and emission factor for CAK36 (caulking; all purpose)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		9249.7	12797.6	1963.4	1090.4	78.0	32.0	19.4		286741	396725	60866.5	33802.8	2416.7	991.2	602.9	2.7E+06	1.78	0.94
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.5								0.0										
4		67-63-0	2-Propanol			8.3								258.8								
5		64-17-5	Ethanol			2.9								90.5								
6		108-95-2	Phenol	0.5					2.8			0.0					70.3					
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.2	2186.0	2172.0	388.7	52.8	4.4	1.2	0.9	0.0	67759.2	67324.4	12042.3	1631.4	130.9	31.2	21.9	9.9E+05	2.32	0.98
9		98-86-2	Acetophenone	0.1		2.4		0.8	0.6	0.4	0.1	0.0		71.0		21.9	14.9	10.3	0.3	398.3	1.10	0.57
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.2	90.9	80.3		12.9	4.5	3.1	1.7	0.0	2813.6	2485.1		394.0	133.6	89.1	47.0	9653.6	1.11	0.98
13		123-72-8	Butanal			36.6		3.5						1134.0		107.9						
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.0		2.2	24.2	1.0	0.9	0.5	0.4	0.0		66.8	748.6	29.9	28.0	15.7	12.5	568.6	0.81	0.58
29		112-40-3	Dodecane					3.2	2.1	1.4	1.3					99.8	65.3	42.2	40.8	899.1	0.69	0.97
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane				13.3								413.8							
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane																			
37		629-50-5	Tridecane					1.7	1.1	0.8	0.7					51.2	33.8	24.8	21.1	404.7	0.65	1.00
38		1120-21-4	Undecane					4.7								144.5						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-																			
42		622-96-8	Toluene, 4-ethyl-																			
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.4	52.6	3.5		2.0	1.0	0.9	0.7	0.0	1617.9	97.0		48.3	18.7	16.0	9.2	235.7	0.64	0.90
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-	0.0	50.5	7.6	59.6	1.9	1.1	0.6	0.6	0.0	1564.8	232.9	1846.9	58.8	32.3	16.8	15.8	2709.6	1.14	0.75
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-	0.1	252.5	37.0	250.0	7.6	4.3	2.2	2.4	0.0	7821.8	1143.2	7745.6	230.3	128.2	64.3	71.4	12777.9	1.17	0.77
50		98-82-8	Benzene, isopropyl			0.1								3.8								
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene	0.0	43.3	18.9	40.5	4.4	2.6	1.7	1.5	0.0	1339.7	586.1	1253.2	134.5	79.0	52.8	44.7	2864.8	0.92	0.89
53		91-20-3	Naphthalene																			
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.0						0.1		0.0						3.2				
56		108-88-3	Toluene	0.4	16.3	1.2		0.3	0.3	0.1	0.2	0.0	494.4	25.1								
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester		155.3	321.5	25.1	34.2	7.4	5.7	3.7		4813.7	9965.3	778.9	1060.2	230.6	177.8	115.4	16399.1	1.07	0.84
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	1.3								0.0										
67		6846-50-0	TXIB	0.2								0.0										

Table A. 50 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		4339.3	2343.4	1251.1	137.9	3.5	1.8	1.0		134519	72644.2	38784.5	4274.3	109.0	54.5	29.8	2.0E+06	2.39	0.95
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		18.1								560.4									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane			0.7								22.0								
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		281.0	428.4	78.9	82.5	39.4	29.6	22.0		8710.0	13281.0	2445.8	2556.9	1220.0	919.1	682.8	17941.5	0.70	0.85
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	2.5	90.4	63.1	37.2	6.9	1.4	0.6	1.4		2724.9	1879.6	1078.0	136.5				1.3E+04	1.40	0.99
122		50-00-0	Formaldehyde		11.1	12.0	10.4	2.2			0.3		343.3	371.1	322.5	69.5			9.9	2177.2	1.14	0.97
123		123-38-6	Propanal	0.0	7.3	6.9	5.5	0.0	0.0	0.0	0.0		225.2	213.6	170.4							
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein						0.2	0.5	0.4						5.3	14.7	11.5			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 51: Small-scale chamber concentration and emission factor for CAK37 (construction adhesive)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	1.5						1.2	2.4	0.0							27.0			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol			4.9	6.6	2.7	1.5	1.4	1.3			152.3	205.9	84.1	45.2	42.1	38.9	346.8	0.48	0.90
6		108-95-2	Phenol							2.1								64.1				
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone			3.3	5.9	3.0	0.6	0.5	0.4			102.7	181.4	92.2	18.8	14.3	11.5	444.1	0.75	0.79
9		98-86-2	Acetophenone	0.1		1.7	1.1	1.1	0.4	0.8	0.2	0.0		51.3	31.4	31.1	10.2	23.1	3.5	101.4	0.54	0.61
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde			1.9	1.6	1.2	0.5	1.1	0.3			59.0	48.9	37.8	16.2	35.3	10.3	99.0	0.39	0.65
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-			0.8								24.9								
25		96-14-0	Pentane, 3-methyl-			0.4								12.5								
26		540-84-1	2,2,4-Trimethylpentane			0.6	0.3							20.1	7.9							
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		41.8	5.8	3.0	2.5	1.4	1.2	2.2		1296.6	181.1	92.8	78.9	43.2	37.2	68.1	216.0	0.35	0.73
29		112-40-3	Dodecane			1.1	0.8	0.7	0.5	0.5	0.6			34.0	24.1	21.8	15.9	14.0	19.9	38.1	0.19	0.75
30		142-82-5	Heptane			1.9	1.4	0.5	0.3	0.2				59.0	42.8	16.0	8.9	6.2		142.3	0.71	0.99
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane			2.0	1.5	0.5						61.4	47.0	16.6				134.4	0.65	0.98
33		111-84-2	Nonane		19.0	3.2	1.7	1.0	0.5	0.4	0.5		589.6	98.2	51.3	31.2	16.3	12.8	16.3	160.5	0.55	0.95
34		111-65-9	Octane			1.2	0.8	0.5		0.2				35.9	26.0	14.2		4.7		77.7	0.62	0.96
35		629-62-9	Pentadecane	0.1					0.3	0.2		0.0					4.3	2.4				
36		629-59-4	Tetradecane	0.6			0.7	0.5	0.7	0.6	0.6	0.0			1.6		3.5					
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		38.7	4.2	2.4	2.7	1.6	1.5	3.5		1199.4	129.5	75.1	82.6	48.1	45.7	108.1	121.6	0.15	0.25
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-					0.0	0.0		0.0					1.5	0.9		0.7	7.2	0.51	0.94
40		611-14-3	Toluene, 2-ethyl-			0.2	0.1	0.1	0.0	0.0	0.0			5.5	3.4	1.8	1.2	0.9	0.9	9.3	0.52	0.99
41		620-14-4	Toluene, 3-ethyl-			0.3	0.1	0.1	0.0	0.0	0.0			10.0	4.6	3.0	1.5	1.5	1.2	16.1	0.57	0.96
42		622-96-8	Toluene, 4-ethyl-			0.3	0.2	0.1	0.0	0.0	0.0			8.2	5.5	2.7	1.5	0.9	0.9	18.1	0.66	0.98
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.3		2.3	2.0	2.5	1.0	0.8	0.7	0.0		60.2	52.3	67.4	20.2	14.5	11.2	131.3	0.47	0.71
45		526-73-8	Benzene, 1,2,3-trimethyl-			0.2			0.0		0.1			6.7			1.5		1.6	10.4	0.44	0.95
46		95-63-6	Benzene, 1,2,4-trimethyl-		5.4	1.1	0.5	0.3	0.2	0.2	0.2		167.2	32.8	15.6	10.3	7.0	5.0	6.4	45.9	0.48	0.93
47		95-47-6	Benzene, 1,2-dimethyl-	0.1	12.7	6.4	4.5	1.5	0.7	0.6	0.5	0.0	390.2	195.3	136.7	43.4	18.9	16.4	14.6	512.8	0.80	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-			0.4	0.2	0.1	0.1	0.1	0.1			12.5	5.5	4.2	2.3	1.7	2.2	18.0	0.51	0.91
49		108-38-3	Benzene, 1,3-dimethyl-	0.3	41.9	24.7	16.6	4.1	2.2	1.5	1.5	0.0	1289.8	757.4	504.7	118.3	58.3	39.1	37.8	2306.3	0.93	0.99
50		98-82-8	Benzene, isopropyl			0.1								2.7								
51		103-65-1	Benzene, propyl-			0.2	0.1							5.8	3.1							
52		100-41-4	Ethylbenzene	0.1	9.0	5.5	3.5	0.9	0.5	0.4	0.3	0.0	277.5	167.4	105.9	25.6	11.7	8.6	7.4	514.6	0.95	1.00
53		91-20-3	Naphthalene			0.1		0.1	0.0					3.0		2.4	1.2			4.4	0.28	0.72
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.0								0.0										
56		108-88-3	Toluene	0.2		4.5	1.6	0.4	0.2	0.2	0.2	0.0		133.8	43.1	6.0	1.9			692.2	1.51	1.00
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester				8.5	2.9	1.8	1.7	2.2				264.5	90.1	56.3	53.5	66.8	625.4	0.56	0.88
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	2.0								0.0										
67		6846-50-0	TXIB	1.0		1.3	1.0	1.1	1.0	1.0	1.0	0.0		7.7		3.9						

Table A. 51 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72.1 h	96.1 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene			0.2	0.1							6.4	4.6							
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene				10.7								330.5							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane			1.6	1.2	0.4	0.2	0.1	0.1			49.5	36.3	12.4	7.6	4.3	4.0	128.1	0.76	0.99
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-			0.7	0.5	0.3	0.1	0.1				20.7	15.0	8.2	4.3	3.5		40.7	0.56	0.98
94		1678-91-7	Cyclohexane, ethyl-			0.3								9.4								
95		1678-92-8	Cyclohexane, propyl-			0.4								11.9								
96		91-17-8	Decahydronaphthalene			0.7	0.6							22.2	17.1							
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane			0.9								27.7								
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	a	b	R^2
113	DNPH	75-07-0	Acetaldehyde	2.2	7.0	6.9	6.1	1.2	0.5	0.5	1.1		146.6	143.7	119.4							
114		50-00-0	Formaldehyde		0.5	0.4	1.5				0.5		15.9	13.6	47.8				15.2			
115		123-38-6	Propanal	0.0	28.4	22.7	16.6	8.2	6.9	4.6	4.0		880.1	704.2	515.9	254.3	214.2	142.5	124.3	1377.4	0.52	0.99
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.8 h	73.3 h	97.3 h	a	b	R^2
118	PFPH	107-02-8	Acrolein						0.2	0.6							5.4	17.1				

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 52: Small-scale chamber concentration and emission factor for CAK32 (foam sealant; gaps & cracks)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.6 h	3.2 h	6 h	24 h	48 h	72 h	96 h	0 h	1.6 h	3.2 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	0.33	0.87		0.57		0.51	0.57	0.63	0.00	4.23		1.91		1.42	1.87	2.34			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	2.50	1.57	2.13	2.93	2.49	1.98	2.71	3.18	0.00			3.35			1.62	5.29	3.22	0.01	0.00
4		67-63-0	2-Propanol		2.01	2.24	0.72	0.29	0.14	0.14	0.05		15.56	17.35	5.56	2.28	1.10	1.07	0.40	42.75	0.95	0.95
5		64-17-5	Ethanol																			
6		108-95-2	Phenol		1.83	0.73		0.65		0.24	1.32		14.18	5.65		5.05		1.85	10.22	5.61	0.05	0.01
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone				0.05		0.02		0.01				0.42		0.13		0.12	0.98	0.49	0.97
8		67-64-1	Acetone	0.19	10.35	9.69	6.53	1.52	0.51	0.51	0.25	0.00	78.74	73.61	49.14	10.30	2.48	2.45	0.45	506.66	1.37	0.94
9		98-86-2	Acetophenone	0.09	0.59	0.37	0.73	0.27	0.24	0.16	0.42	0.00	3.83	2.17	4.95	1.34	1.15	0.51	2.51	4.51	0.32	0.32
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.14	1.18	0.72	0.92	0.43	0.26	0.21	0.48	0.00	8.07	4.50	6.01	2.28	0.91	0.53	2.62	9.95	0.50	0.55
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal						0.07								0.56					
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		126.50	39.40	9.94	2.08	2.01	1.53	1.50		980.42	305.38	77.04	16.15	15.58	11.89	11.64	541.81	0.91	0.91
25		96-14-0	Pentane, 3-methyl-		51.24	16.36	4.14	0.90	0.81	0.61	0.63		397.14	126.79	32.07	6.97	6.30	4.72	4.90	228.38	0.92	0.91
26		540-84-1	2,2,4-Trimethylpentane					0.15	0.11							1.17	0.85					
27		108-08-7	2,4-Dimethylpentane			2.11								16.34								
28		124-18-5	Decane	0.34	1.53	0.83	0.44	0.21	0.19	0.18	0.16	0.00	9.25	3.81	0.75							
29		112-40-3	Dodecane	0.08	0.35	0.30	0.23	0.12	0.11	0.11	0.13	0.00	2.11	1.70	1.20	0.35	0.27	0.27	0.41	2.76	0.53	0.84
30		142-82-5	Heptane		33.45	11.00	3.62	0.79	0.66	0.46	0.41		259.20	85.28	28.08	6.09	5.12	3.59	3.16	182.87	0.93	0.96
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		124.97	39.38	10.77	2.31	2.07	1.40	1.30		968.54	305.16	83.49	17.88	16.03	10.82	10.05	614.51	0.96	0.94
33		111-84-2	Nonane	0.28	2.80							0.00	19.48									
34		111-65-9	Octane		9.90	3.24	1.14	0.28	0.23	0.17	0.14		76.75	25.09	8.86	2.20	1.77	1.33	1.12	51.69	0.88	0.96
35		629-62-9	Pentadecane		0.54	0.55	0.45	0.21	0.19	0.16	0.14		4.19	4.24	3.49	1.61	1.49	1.23	1.08	6.81	0.41	0.98
36		629-59-4	Tetradecane		3.79	3.83	2.98	0.96	1.00	0.68	0.76		29.37	29.70	23.06	7.41	7.71	5.26	5.87	52.70	0.52	0.94
37		629-50-5	Tridecane		0.19	0.14			0.04		0.04		1.47	1.09			0.28		0.30	1.70	0.42	0.95
38		1120-21-4	Undecane	0.08	0.55	0.37	0.25	0.15	0.15	0.12	0.12	0.00	3.59	2.26	1.31	0.52	0.54	0.29	0.32	3.96	0.57	0.95
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-	0.01	0.06	0.03	0.02		0.01	0.01		0.00	0.41	0.17	0.10			0.00		1.10	1.45	0.99
41		620-14-4	Toluene, 3-ethyl-	0.01	0.09	0.06	0.03		0.01	0.01	0.01	0.00	0.62	0.36	0.19		0.03			1.05	0.93	1.00
42		622-96-8	Toluene, 4-ethyl-		0.20	0.07	0.04		0.01	0.02	0.01		1.52	0.57	0.31		0.09	0.13	0.09	0.88	0.51	0.92
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		21.28	7.50	2.83	0.48	0.53	0.32	0.20		164.91	58.10	21.91	3.73	4.07	2.46	1.53	145.81	0.99	0.96
45		526-73-8	Benzene, 1,2,3-trimethyl-						0.01								0.06					
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.02	0.16	0.08						0.00	1.09	0.50								
47		95-47-6	Benzene, 1,2-dimethyl-		0.34	0.16	0.11	0.04	0.02	0.02	0.01		2.62	1.25	0.88	0.29	0.18	0.13	0.10	3.13	0.74	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-	0.01	0.11	0.06	0.03		0.01	0.01		0.00	0.83	0.38	0.22		0.03	0.02		1.33	1.02	1.00
49		108-38-3	Benzene, 1,3-dimethyl-	0.03	2.69	1.22	0.76	0.23	0.14	0.11	0.09	0.00	20.55	9.19	5.61	1.53	0.82	0.57	0.46	26.85	0.90	1.00
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-		0.11	0.05				0.01			0.87	0.38				0.08				
52		100-41-4	Ethylbenzene	0.01	0.42	0.19	0.13	0.05	0.02	0.02	0.01	0.00	3.17	1.44	0.99	0.31	0.13	0.12	0.07	4.55	0.89	0.99
53		91-20-3	Naphthalene	0.08	0.12	0.12	0.11	0.09	0.08	0.08	0.08	0.00	0.32	0.25	0.24	0.06				0.77	0.80	0.93
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene		0.33	0.13	0.12	0.05	0.03	0.03	0.02		2.53	0.98	0.92	0.39	0.26	0.25	0.14	2.14	0.55	0.96
56		108-88-3	Toluene		23.81	35.94	4.41	8.16	0.82	19.85	0.38		184.53	278.53	34.15	63.27	6.37	153.81	2.98	358.26	0.74	0.33
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester				0.25								1.92							
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB		0.33	0.20	0.25	0.09	0.10	0.12	0.11		2.53	1.52	1.96	0.70	0.78	0.93	0.85	2.18	0.24	0.63

Table A. 52 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.6 h	3.2 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.6 h	3.2 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		83.60	31.55	12.51	2.85	2.48	1.63	1.43		647.92	244.51	96.99	22.11	19.25	12.63	11.12	538.64	0.88	0.97
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.39	0.15							2.99	1.14								
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.32	0.12							2.49	0.90								
89		79-01-6	Trichloroethylene		4.02	2.36	2.57	1.10					31.12	18.30	19.91	8.53				34.36	0.42	0.85
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		28.65	9.14	2.85	0.64	0.60	0.44	0.48		222.00	70.83	22.06	4.92	4.66	3.40	3.69	127.64	0.85	0.92
92		110-82-7	Cyclohexane		25.66	8.34	2.41	0.48	0.50	0.36	0.38		198.89	64.67	18.65	3.73	3.89	2.81	2.97	115.32	0.88	0.90
93		1678-93-9	Cyclohexane, butyl-			0.09			0.06	0.06				0.71			0.44	0.43		0.86	0.17	1.00
94		1678-91-7	Cyclohexane, ethyl-		1.06	0.36	0.13						8.24	2.82	1.04							
95		1678-92-8	Cyclohexane, propyl-		0.26	0.11							1.98	0.87								
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.07								0.51									
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		0.42	0.34							3.22	2.61								
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		0.68	0.32	0.28		0.11				5.25	2.50	2.19		0.84			4.30	0.42	0.99
114		78-40-0	Triethyl phosphate								0.25								1.93			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide				0.48								3.72							
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	4 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	4 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > ** h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.1	5.6	3.7	1.8	1.3	2.0	0.8	0.6		35.1	20.5	5.6	1.9	7.6			20.72	0.45	0.29
122		50-00-0	Formaldehyde	1.0	1.3	1.5	1.3	2.0	1.0	0.7	0.8		2.3	4.2	3.0	7.8	0.5			10.66	0.54	0.27
123		123-38-6	Propanal		149.4	58.6	2.3	9.0	6.0	4.4	3.3		1158.2	454.4	17.8	69.8	46.3	33.8	25.5	243.29	0.47	0.29
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	4 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	4 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.6	3.1	1.4	0.5	2.8	1.1	1.3	0.5		19.1	5.8		16.7	3.7	5.3		8.49	0.08	0.02

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 53: Small-scale chamber concentration and emission factor for CAK33 (foam sealant; window & door)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.6 h	3.1 h	6.1 h	24.1 h	48.1 h	72 h	96.1 h	0 h	1.6 h	3.1 h	6.1 h	24.1 h	48.1 h	72 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	0.68	0.83	0.81	0.60	0.51	0.51	0.63		0.00	1.13	1.02								
4		67-63-0	2-Propanol		1.50	0.54	0.14		0.07	0.09			11.63	4.22	1.08		0.58	0.71		4.68	0.50	0.74
5		64-17-5	Ethanol																			
6		108-95-2	Phenol			3.10	0.93	1.44	0.37	0.28	0.98			24.02	7.19	11.13	2.86	2.20	7.61	27.53	0.45	0.50
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.06								0.47									
8		67-64-1	Acetone	0.09	15.19	12.06	3.50	0.56	0.51	0.65	0.33	0.00	117.03	92.80	26.46	3.63	3.25	4.38	1.88	199.71	1.03	0.90
9		98-86-2	Acetophenone	0.04	0.36	1.51	0.43	0.44	0.24	0.20	0.33	0.00	2.47	11.40	3.03	3.06	1.55	1.22	2.27	12.32	0.48	0.71
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.08	0.96	1.20	0.88	0.56	0.30	0.25	0.36	0.00	6.80	8.62	6.20	3.70	1.69	1.27	2.17	15.51	0.51	0.89
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		0.40	0.14							3.13	1.06								
25		96-14-0	Pentane, 3-methyl-		1.18	0.42	0.37	0.14					9.17	3.22	2.85	1.10				6.64	0.55	0.95
26		540-84-1	2,2,4-Trimethylpentane					0.26								2.00						
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		1.14	0.07			0.02	0.07			8.84	0.56			0.14	0.51		0.64	0.20	0.20
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		0.21			0.28			0.07		1.61			2.15			0.52			
33		111-84-2	Nonane		1.06					0.06			8.20					0.49				
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane								0.03								0.25			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		0.14								1.10									
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.08	0.03							0.63	0.24								
40		611-14-3	Toluene, 2-ethyl-		0.04								0.30									
41		620-14-4	Toluene, 3-ethyl-		0.07	0.01							0.51	0.09								
42		622-96-8	Toluene, 4-ethyl-		0.31	0.10							2.41	0.74								
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		0.33	0.27				0.01			2.54	2.12				0.08				
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.17								1.35									
47		95-47-6	Benzene, 1,2-dimethyl-		0.09								0.68									
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.05	0.02							0.42	0.12								
49		108-38-3	Benzene, 1,3-dimethyl-		0.36	0.10		0.02	0.02	0.03	0.02		2.79	0.77		0.18	0.13	0.26	0.15	1.05	0.44	0.72
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-		0.05								0.38									
52		100-41-4	Ethylbenzene		0.11	0.03	0.01	0.01	0.01	0.01	0.00		0.85	0.24	0.12	0.08	0.05	0.08	0.04	0.31	0.42	0.84
53		91-20-3	Naphthalene																			
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.01	0.16	0.16	0.06		0.03	0.03	0.02	0.00	1.12	1.14	0.40		0.17	0.10	0.06	2.04	0.71	0.94
56		108-88-3	Toluene	0.03	5.63	1.61	0.40	14.76	0.16	0.12	0.11	0.00	43.40	12.22	2.81	114.09	0.97	0.66	0.56	38.46	0.78	0.27
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB			0.26			0.05	0.09				2.01			0.39	0.68		3.14	0.44	0.80

Table A. 53 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.6 h	3.1 h	6.1 h	24.1 h	48.1 h	72 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.6 h	3.1 h	6.1 h	24.1 h	48.1 h	72 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene		1.53	0.48	0.10		0.02				11.84	3.69	0.77		0.18			7.88	1.01	0.91
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		15.79	4.41	0.88	0.36	0.19	0.19	0.19		122.38	34.15	6.85	2.79	1.51	1.49	1.45	53.34	0.86	0.90
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.15								1.18									
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.13								0.97									
89		79-01-6	Trichloroethylene		3.50								27.10									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate		19.64	14.70	2.33			0.22	0.20		152.18	113.95	18.04			1.71	1.56	264.91	1.16	0.95
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide		8.24	4.32	1.39	0.96	0.34	0.43	0.44		63.83	33.47	10.81	7.42	2.60	3.31	3.39	51.05	0.65	0.88
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	3.9 h	6.7 h	24.7 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	3.9 h	6.7 h	24.7 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.1	3.8	2.7	2.3	1.1	1.3	1.1	0.9		20.9	12.4	9.1		1.8			36.97	0.77	1.00
122		50-00-0	Formaldehyde	0.9	2.0	1.3		1.6	1.2	0.7	0.8		9.1	3.1		5.8	2.4			3.62	0.01	0.00
123		123-38-6	Propanal		12.7	4.4							98.3	34.1								
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	3.9 h	6.7 h	24.7 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	3.9 h	6.7 h	24.7 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t >** h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.7	1.1	0.1	0.0	0.5	1.6	0.6	1.1		3.2				7.1		3.1			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 54: Small-scale chamber concentration and emission factor for CAK34 (foam sealant; triple expansion)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		0.33				0.14		0.19		2.53				1.10		1.44			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	1.24	1.61	1.23	1.10	0.90	1.04	1.07	1.45	0.00	2.84						1.58			
4		67-63-0	2-Propanol		1.90	0.33	0.46		0.08				14.76	2.58	3.53		0.64			6.64	0.58	0.84
5		64-17-5	Ethanol																			
6		108-95-2	Phenol	0.16	0.92	0.67	3.99	0.40	0.30		1.70	0.00	5.85	3.92	29.65	1.86	1.02		11.88	9.48	0.23	0.06
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone				0.05			0.01					0.42			0.08				
8		67-64-1	Acetone	0.42	33.42	8.67	3.72	0.70	0.53	0.70	0.36	0.00	255.78	63.92	25.55	2.20	0.87	2.20		223.24	1.28	0.89
9		98-86-2	Acetophenone	0.09	0.41	0.36	1.32	0.33	0.18	0.25	0.69	0.00	2.46	2.10	9.51	1.83	0.67	1.20	4.67	4.84	0.24	0.13
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.12	0.77	0.70	1.44	0.43	0.30	0.30	0.48	0.00	5.01	4.47	10.24	2.40	1.42	1.42	2.78	10.42	0.41	0.57
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		75.34	27.02	7.82	2.05	1.60	1.29	1.21		583.90	209.44	60.62	15.86	12.37	9.98	9.34	373.93	0.87	0.94
25		96-14-0	Pentane, 3-methyl-		29.18	10.61	2.95	0.82	0.64	0.52	0.47		226.11	82.22	22.89	6.37	4.98	4.04	3.62	143.40	0.86	0.94
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane	0.08	1.57	0.42	0.33	0.15	0.13	0.11	0.11	0.00	11.58	2.67	1.97	0.53	0.37	0.23	0.25	6.48	0.75	0.98
29		112-40-3	Dodecane	0.05	0.27	0.22	0.20	0.10	0.10	0.09	0.11	0.00	1.75	1.37	1.18	0.42	0.44	0.33	0.50	2.01	0.38	0.82
30		142-82-5	Heptane		19.73	7.45	2.42	0.71	0.56	0.42	0.32		152.92	57.74	18.78	5.49	4.31	3.24	2.51	109.68	0.85	0.96
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		71.32	26.46	7.65	2.12	1.63	1.20	1.07		552.74	205.06	59.27	16.41	12.64	9.30	8.33	381.72	0.88	0.95
33		111-84-2	Nonane		2.85	0.98	0.49		0.12	0.09	0.08		22.09	7.61	3.80		0.90	0.68	0.60	15.54	0.73	0.99
34		111-65-9	Octane		5.85	2.31	0.92	0.30	0.20	0.16	0.15		45.37	17.90	7.11	2.30	1.51	1.27	1.14	33.95	0.78	0.97
35		629-62-9	Pentadecane		0.46	0.48	0.44	0.21	0.19	0.17	0.17		3.54	3.68	3.38	1.66	1.49	1.29	1.30	5.51	0.34	0.97
36		629-59-4	Tetradecane		3.44	3.37	2.79	1.21	1.02	0.82	0.71		26.65	26.09	21.59	9.39	7.93	6.38	5.52	45.14	0.46	0.99
37		629-50-5	Tridecane				0.08				0.02				0.65				0.18			
38		1120-21-4	Undecane	0.11	0.39	0.28	0.21	0.13	0.15	0.12	0.17	0.00	2.21	1.37	0.82	0.18	0.34	0.13	0.51	1.75	0.46	0.53
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-	0.00	0.05	0.02	0.02	0.01	0.01	0.00	0.01	0.00	0.34	0.15	0.16	0.04	0.01	0.00	0.01	0.75	1.08	0.72
41		620-14-4	Toluene, 3-ethyl-		0.07	0.02				0.01	0.01		0.55	0.19				0.06	0.08	0.26	0.29	0.95
42		622-96-8	Toluene, 4-ethyl-		0.16	0.09				0.01			1.26	0.66				0.10				
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		6.33	2.43	1.10	0.05	0.16	0.29	0.11		49.08	18.82	8.49	0.36	1.27	2.22	0.86	29.19	0.81	0.60
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.03								0.25									
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.03	0.13							0.00	0.75									
47		95-47-6	Benzene, 1,2-dimethyl-		0.65	0.32	0.18	0.06	0.04	0.04	0.03		5.06	2.52	1.42	0.47	0.35	0.28	0.24	4.86	0.68	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.08	0.04				0.01	0.01		0.63	0.31				0.06	0.06	0.53	0.48	0.99
49		108-38-3	Benzene, 1,3-dimethyl-		4.19	2.14	1.13	0.33	0.27	0.21	0.19		32.46	16.58	8.72	2.56	2.07	1.60	1.49	31.66	0.70	0.98
50		98-82-8	Benzene, isopropyl			0.03								0.22								
51		103-65-1	Benzene, propyl-		0.08	0.04							0.59	0.28								
52		100-41-4	Ethylbenzene		0.52	0.24	0.13	0.04	0.04	0.03	0.02		4.01	1.89	1.00	0.31	0.28	0.22	0.19	3.35	0.65	0.97
53		91-20-3	Naphthalene																			
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene		0.14	0.09	0.07	0.10	0.04	0.03	0.02		1.05	0.69	0.54	0.80	0.28	0.26	0.19	1.15	0.34	0.64
56		108-88-3	Toluene	0.04	9.16	21.12	1.51	0.93	4.50	0.30	0.28	0.00	70.68	163.40	11.40	6.87	34.52	1.97	1.83	205.65	0.94	0.58
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester						0.05								0.41					
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB		0.62	0.24	0.15	0.22	0.33	0.13	0.05		4.81	1.83	1.15	1.73	2.55	1.00	0.36	2.44	0.22	0.20

Table A. 54 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		76.24	30.20	13.93	4.13	3.13	2.34	1.96		590.85	234.07	107.94	31.98	24.28	18.11	15.20	471.90	0.77	0.98
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.50	0.19			0.04	0.03			3.84	1.48			0.28	0.22		2.89	0.60	1.00
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.16								1.26									
89		79-01-6	Trichloroethylene		5.84								45.24									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		14.78	5.57	1.86	0.54	0.41	0.34	0.30		114.51	43.20	14.44	4.19	3.17	2.61	2.35	77.38	0.81	0.95
92		110-82-7	Cyclohexane		13.85	5.11	1.47	0.49	0.36	0.29	0.27		107.30	39.62	11.37	3.78	2.82	2.27	2.12	65.80	0.80	0.94
93		1678-93-9	Cyclohexane, butyl-		0.14								1.10									
94		1678-91-7	Cyclohexane, ethyl-		0.66	0.26	0.11						5.10	2.05	0.85							
95		1678-92-8	Cyclohexane, propyl-		0.22								1.69									
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		0.07								0.55									
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane						0.10								0.81					
114		78-40-0	Triethyl phosphate		0.86	1.16	1.87		1.55	1.74	1.22		6.66	9.00	14.48		12.00	13.46	9.46			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
121	DNPH	75-07-0	Acetaldehyde	1.0	7.3	4.4	2.7	1.1	2.1	1.7	1.0		48.7	26.7	13.3	0.9	9.0	5.7	0.5	57.96	0.80	0.45
122		50-00-0	Formaldehyde	1.0	2.2	1.9	1.3	1.4	1.5	0.8	0.7		8.9	6.7	2.1	2.7	4.2			4.57	0.10	0.05
123		123-38-6	Propanal	0.7	41.0	19.5	10.2	3.2	2.0	1.9	1.7		312.8	146.4	73.9	19.7	10.5	9.7	8.3	425.10	0.90	0.98

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.3	1.3	1.3	1.7	1.6	1.4	0.8	0.1		7.4	7.7	10.4	9.4	8.2	3.8		12.79	0.18	0.34

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 55: Small-scale chamber concentration and emission factor for CAK35 (foam sealant; latex-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	0.6	57.2	45.7	38.5	28.2	25.4	11.2	4.0	0.0	438.7	349.7	293.7	214.3	192.1	82.2	26.4	861.5	0.57	0.67
2		71-23-8	1-Propanol		31.2	17.0	10.5	6.4	5.1	0.7			241.8	132.0	81.4	49.9	39.7	5.6		357.4	0.76	0.72
3		104-76-7	Hexanol, 2-ethyl-1-	2.1	5.6	7.2	5.8	5.0	5.5	6.2	5.4	0.0	27.3	39.8	28.6	22.5	26.8	32.0	26.1	36.5	0.08	0.24
4		67-63-0	2-Propanol		27346.0	19947.3	15562.6	11065.7	6001.7	2743.7	8.6		211932	154592	120610	85759.1	46513.0	21263.8	66.8	1.9E+06	1.42	0.46
5		64-17-5	Ethanol																			
6		108-95-2	Phenol	1.1	13.3	3.9	18.4	3.1	2.7	6.5	3.1	0.0	94.8	22.3	134.0	15.8	12.8	42.1	15.8	62.1	0.26	0.17
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		8.2	6.2	3.6	2.0	1.2	0.1	0.0		63.5	47.7	28.0	15.5	9.6	1.0	0.1	393.3	1.37	0.71
8		67-64-1	Acetone	0.2	714.7	415.0	246.0	135.4	54.6	35.5	1.3	0.0	5538.0	3215.0	1905.4	1048.4	422.2	273.9	8.6	20868.0	1.24	0.67
9		98-86-2	Acetophenone	0.2	4.7	4.6	5.0	2.4	2.9	3.9	3.7	0.0	35.1	34.1	37.5	17.3	21.2	29.2	27.5	36.9	0.10	0.24
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		0.3	0.2	0.2	0.1	0.1	0.0			2.0	1.7	1.2	0.9	0.7	0.4		2.7	0.41	0.90
12		100-52-7	Benzaldehyde	0.2	7.4	6.8	6.5	3.8	3.8	4.7	3.6	0.0	55.5	50.9	48.4	27.4	27.5	34.8	26.4	61.3	0.18	0.74
13		123-72-8	Butanal			5.1	3.1	2.1	2.4	0.9	0.7			39.9	23.7	15.9	18.6	6.9	5.5	67.7	0.49	0.82
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal		0.7	0.6	0.5	0.2					5.1	4.6	4.1	1.9				8.2	0.45	0.96
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal								0.6								4.6			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane		1.02	1.56	1.02	0.85	0.81	0.31	0.16		7.93	12.05	7.90	6.56	6.29	2.37	1.24	23.91	0.52	0.73
28		124-18-5	Decane		1.03		0.47	0.71		0.08			7.97		3.64	5.50		0.63		18.01	0.66	0.51
29		112-40-3	Dodecane		0.24	0.23	0.22	0.17	0.11	0.12	0.10		1.84	1.79	1.73	1.29	0.89	0.95	0.78	2.52	0.24	0.94
30		142-82-5	Heptane		0.78	0.75	0.53	0.30	0.23	0.09			6.08	5.83	4.10	2.35	1.82	0.72		11.66	0.56	0.89
31		544-76-3	Hexadecane	0.02	0.15				0.04			0.00	1.05				0.13					
32		110-54-3	Hexane							0.03	0.11							0.26	0.84			
33		111-84-2	Nonane		0.77	0.38	0.41	0.40	0.11	0.06	0.05		5.95	2.92	3.14	3.10	0.83	0.47	0.42	8.45	0.60	0.75
34		111-65-9	Octane																			
35		629-62-9	Pentadecane	0.09	0.57	0.21	0.20	0.19	0.20	0.22	0.20	0.00	3.75	0.89	0.87	0.80	0.83	0.98	0.85			
36		629-59-4	Tetradecane	0.70	1.19	1.24	1.21	0.98	1.13	1.17	1.03	0.00	3.76	4.19	3.90	2.14	3.33	3.63	2.56	4.37	0.10	0.28
37		629-50-5	Tridecane	0.04				0.08	0.12	0.11	0.10	0.00				0.27	0.58	0.52	0.48			
38		1120-21-4	Undecane		0.18	0.18	0.15	0.19	0.07	0.06	0.05		1.37	1.36	1.15	1.47	0.54	0.47	0.41	2.32	0.34	0.70
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-	0.01	0.12	0.15	0.13	0.10	0.10	0.10	0.08	0.00	0.80	1.07	0.93	0.67	0.71	0.68	0.51	1.28	0.17	0.87
40		611-14-3	Toluene, 2-ethyl-	0.02	19.14	27.34	25.64	19.86	21.54	18.80	11.80	0.00	148.18	211.73	198.59	153.80	166.79	145.59	91.33	271.49	0.18	0.69
41		620-14-4	Toluene, 3-ethyl-	0.03	58.23	85.05	79.43	60.61	63.12	52.46	31.02	0.00	450.99	658.85	615.30	469.47	488.92	406.30	240.18	905.34	0.22	0.72
42		622-96-8	Toluene, 4-ethyl-	0.02	73.83	94.18	82.39	55.94	52.18	40.13	22.36	0.00	572.00	729.73	638.30	433.32	404.23	310.81	173.09	1167.47	0.34	0.83
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		0.36	0.59	0.50	0.54	0.49	0.30	0.58		2.83	4.55	3.87	4.19	3.80	2.31	4.49	4.75	0.07	0.16
45		526-73-8	Benzene, 1,2,3-trimethyl-	0.04	29.59	40.17	36.00	27.11	28.03	24.70	16.79	0.00	228.99	310.98	278.73	209.78	216.91	191.13	129.79	399.62	0.20	0.82
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.11	63.58	85.70	76.56	55.71	55.47	47.01	30.07	0.00	491.95	663.39	592.52	430.94	429.05	363.51	232.26	915.45	0.24	0.83
47		95-47-6	Benzene, 1,2-dimethyl-	0.02	15.87	20.30	17.33	12.08	11.34	7.52	3.32	0.00	122.81	157.13	134.13	93.46	87.71	58.08	25.53	284.37	0.41	0.75
48		108-67-8	Benzene, 1,3,5-trimethyl-	0.02	20.65	30.42	28.96	23.05	25.31	22.12	13.45	0.00	159.91	235.59	224.30	178.51	196.02	171.27	104.12	300.09	0.16	0.62
49		108-38-3	Benzene, 1,3-dimethyl-	0.03	23.48	29.39	24.70	16.44	14.70	8.72	3.20	0.00	181.74	227.52	191.19	127.19	113.69	67.36	24.53	479.40	0.50	0.74
50		98-82-8	Benzene, isopropyl		14.41	21.21	20.23	15.83	17.42	14.08	7.40		111.69	164.35	156.79	122.66	134.99	109.12	57.37	228.23	0.21	0.60
51		103-65-1	Benzene, propyl-		42.69	57.56	51.78	36.80	35.08	27.07	15.07		330.82	446.09	401.28	285.20	271.90	209.76	116.80	694.55	0.31	0.80
52		100-41-4	Ethylbenzene	0.01	6.22	7.73	6.51	4.36	3.91	2.30	0.80	0.00	48.12	59.80	50.41	33.71	30.23	17.75	6.10	128.29	0.51	0.72
53		91-20-3	Naphthalene	1.66	2.10	2.36	2.18	1.78	1.81	1.63	1.36	0.00	3.36	5.44	4.03	0.89	1.17			11.35	0.66	0.88
54		99-87-6	p-Cymene		0.71	1.04	0.98	0.81	0.82	0.72	0.52		5.48	8.05	7.63	6.28	6.34	5.54	4.05	10.03	0.16	0.78
55		100-42-5	Styrene	0.02	66.99	73.51	56.30	34.28	28.35	15.68	5.22	0.00	519.00	569.58	436.17	265.49	219.58	121.35	40.34	1356.89	0.61	0.78
56		108-88-3	Toluene	9.16	18.56	20.80	21.19	7.72	5.58	5.17	5.62	0.00	72.82	90.17	93.23							
57		98-83-9	2-Phenylpropene		0.69	0.83	0.68	0.52	0.44	0.32			5.36	6.42	5.25	4.00	3.40	2.50		8.69	0.26	0.95
58		95-13-6	Indene	0.19	0.23	0.22	0.30	0.21	0.14	0.15	0.08	0.00	0.31	0.23	0.90	0.21						
59	Esters	108-21-4	Acetic acid, 1-methylethyl est		138.13	131.43	96.29	64.14	58.03	17.17			1070.52	1018.57	746.25	497.11	449.75	133.03		1935.95	0.50	0.76
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester			0.92	0.82							7.15	6.33							
62		141-78-6	Acetic acid, ethyl ester		113.64	84.60	55.37	32.52	21.86	2.89			880.73	655.66	429.15	252.00	169.38	22.43		2043.72	0.83	0.74
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate						0.10								0.75					
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol	3.71	14.88	22.16	13.14	5.68	7.47	8.06	6.64	0.00	86.55	143.00	73.08	15.27	29.11	33.66	22.69	173.72	0.48	0.66
67		6846-50-0	TXIB	1.37	8.51	8.89	5.50	2.25	2.62	2.99	2.48	0.00	55.31	58.28	31.97	6.84	9.65	12.58	8.61	78.92	0.52	0.75

Table A. 55 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		1.98	7.90	6.89	7.93	4.73	4.90	3.51		15.38	61.20	53.36	61.43	36.67	38.01	27.24	81.34	0.19	0.68
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-						0.18	0.30	0.42						1.43	2.36	3.22			
73		112-34-5	Ethanol, 2-butoxyethoxy-			0.76	0.61	0.40	0.72	0.77	0.73			5.87	4.72	3.10	5.60	6.00	5.69			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		552.45	391.70	265.14	208.08	178.88	33.42	0.26		4281.49	3035.70	2054.82	1612.62	1386.34	259.00	2.00	31639	1.37	0.48
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		2.98								23.09									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		0.19	0.29	0.24	0.19	0.17	0.08	0.03		1.50	2.22	1.88	1.50	1.29	0.59	0.26	4.79	0.49	0.69
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene							0.24								1.85				
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid				39.64	276.53	554.77	1211.35	1217.35				307.25	2143.14	4299.45	9387.99	9434.47			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		1.34	1.30	0.65	0.58	0.43	0.17			10.37	10.07	5.02	4.50	3.30	1.31		16.00	0.49	0.80
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide		11.04	10.23	6.97	6.18	4.70	8.19	6.61		85.60	79.28	54.05	47.90	36.43	63.50	51.22	73.26	0.10	0.28
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
113	DNPH	75-07-0	Acetaldehyde	1.6	58.5	44.3	33.6	26.7	19.6	7.6	3.9		440.9	330.8	247.6	194.5	139.5	46.6	17.9	1148.74	0.73	0.74
114		50-00-0	Formaldehyde	1.6	11.5	10.7	11.5	11.9	8.8	6.2	7.2		76.8	70.8	76.6	80.3	56.1	35.4	43.3	107.76	0.19	0.60
115		123-38-6	Propanal			1.0								8.0								

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.8 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
118	PFP	107-02-8	Acrolein	0.5	2.4	1.6	1.6	3.8	6.3	4.7	2.1		15.1	8.5	8.3	25.4	44.7	32.9	12.2			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

A.3 Chamber concentrations and emission factors for 52 materials tested in micro-scale chambers

Table A. 56: Micro-scale chamber concentration and emission factor for VF14a_m (vinyl tile)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol															
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		178.16	107.92	70.02	65.09	49.28		526.28	318.80	206.83	192.26	145.58	1696.40	0.53	0.96
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol					0.43						1.28				
6		108-95-2	Phenol		197.75	81.20	55.09	61.53	49.32		584.14	239.87	162.73	181.77	145.69	623.36	0.31	0.78
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		43.50	5.97	3.52	3.51	2.61		128.49	17.63	10.40	10.36	7.71	98.10	0.55	0.93
8		67-64-1	Acetone	1.09	12.00	2.97	2.53	4.15	3.35		32.23	5.54	4.23	9.04	6.65			
9		98-86-2	Acetophenone	1.05	1.81	2.17	1.07	1.59	1.49		2.24	3.32	0.06	1.61	1.30	3.18	0.34	0.01
10		108-94-1	Cyclohexanone		66.84	22.34	12.02	10.16	8.04		197.45	65.98	35.52	30.02	23.74	629.75	0.72	0.98
11		108-10-1	Methylisobutyl ketone		79.28	8.69	4.57	3.61	3.30		234.19	25.66	13.49	10.68	9.74	235.44	0.71	0.97
12		100-52-7	Benzaldehyde	1.30	2.84	2.84	1.97	1.65	1.85		4.53	4.54	1.97	1.02	1.62	71.21	0.90	0.76
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		26.08						77.05							
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		9.43	2.92	1.65	1.39	1.19		27.85	8.62	4.87	4.10	3.52	64.11	0.64	0.98
29		112-40-3	Dodecane		3.59	3.06	2.33	2.00	1.93		10.60	9.04	6.89	5.92	5.69	26.72	0.35	0.98
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane		1.01						2.99							
34		111-65-9	Octane															
35		629-62-9	Pentadecane		0.43		0.31				1.27		0.92					
36		629-59-4	Tetradecane		1.72	1.23	1.21	1.24	0.96		5.09	3.64	3.57	3.67	2.85	5.74	0.13	0.42
37		629-50-5	Tridecane		1.18	1.47	1.19	1.18	1.18		3.49	4.36	3.51	3.47	3.49	7.08	0.16	0.79
38		1120-21-4	Undecane		4.95	2.93	1.86	1.66	1.42		14.62	8.65	5.50	4.90	4.19	42.79	0.51	0.98
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.11	0.10					0.3	0.3						
41		620-14-4	Toluene, 3-ethyl-		0.15	0.16					0.4	0.5						
42		622-96-8	Toluene, 4-ethyl-		0.12	0.12					0.4	0.4						
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene		0.19			1.1			0.6			3.2				
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-			0.45			0.2			1.3			0.7			
47		95-47-6	Benzene, 1,2-dimethyl-		0.48	1.60		0.7	0.6		1.4	4.7		2.0	1.7	52.04	0.76	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.17	0.16					0.5	0.5						
49		108-38-3	Benzene, 1,3-dimethyl-		1.28	6.75	1.9	4.1	2.2		3.8	19.9	5.7	12.0	6.6	118.12	0.63	0.43
50		98-82-8	Benzene, isopropyl		0.93						2.8							
51		103-65-1	Benzene, propyl-					0.1						0.4				
52		100-41-4	Ethylbenzene		1.00	2.04	0.6	1.1	0.7		3.0	6.0	1.8	3.1	1.9	43.68	0.69	0.55
53		91-20-3	Naphthalene			0.17		0.2				0.5		0.6				
54		99-87-6	p-Cymene															
55		100-42-5	Styrene	0.18	0.45	0.31	0.3	0.5			0.8	0.4	0.3	1.0				
56		108-88-3	Toluene	0.51	624.22	115.44	64.9	50.7	44.7		1842.4	339.5	190.2	148.2	130.6	3030.62	0.70	0.99
57		98-83-9	2-Phenylpropene		2.40	1.33	0.8	0.8	0.6		7.1	3.9	2.4	2.3	1.8	21.48	0.54	0.96
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		1.77			0.5	0.7		5.2			1.6	2.1			
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		1.07	0.57	0.4	0.4			3.1	1.7	1.2	1.3		3.79	0.27	0.66

Table A. 56 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-		33.93	7.72		2.8			100.2	22.8		8.3				
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	7.51	4.15	4.30	2.27	1.34	4.70									
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-		1.09						3.21							
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-		0.97						2.87							
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.53	0.16					1.57	0.47						
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene															
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl				1.82						5.36					
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFR	107-02-8	Acrolein	0.2	0.9	0.5	1.4	0.4	0.6		2.0	0.7	3.5	0.4	1.2	2.28	0.20	0.11

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 57: Micro-scale chamber concentration and emission factor for VF31_m (vinyl tile)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.6 h	24.2 h	48 h	72.1 h	97.2 h	0 h	1.6 h	24.2 h	48 h	72.1 h	97.2 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	9.58	10.39						1.98							
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	17.89	739.05	69.99	7.15	37.14	50.68		1769.85	129.24		47.76	81.42	563.87	0.36	0.94
4		67-63-0	2-Propanol		0.33						0.81							
5		64-17-5	Ethanol		1.01		2.35				2.48		5.83					
6		108-95-2	Phenol	3.40	7.36		33.99				9.73		75.73					
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		67.88	5.49		3.37	3.45		166.60	13.63		8.36	8.57	42.74	0.36	0.94
8		67-64-1	Acetone	2.77	7.02	1.05	177.22	2.15	2.27		10.43		431.88					
9		98-86-2	Acetophenone	0.32	1.03		1.25				1.75		2.29					
10		108-94-1	Cyclohexanone		78.44	3.26		1.99	1.19		192.50	8.10		4.94	2.95	67.16	0.65	0.89
11		108-10-1	Methylisobutyl ketone		16.93	0.69		0.62			41.54	1.72		1.53				
12		100-52-7	Benzaldehyde	0.57	0.46		4.91						10.75					
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural				6.85						16.96					
17		111-71-7	Heptanal				7.62						18.87					
18		66-25-1	Hexanal		12.95		434.09				31.79		1074.65					
19		124-19-6	Nonanal	1.72	1.45		12.36						26.35					
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal				4.80						11.88					
22		2548-87-0	2-Octenal				4.82						11.93					
23		110-62-3	Pentanal				34.61						85.68					
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane	0.44	1.80	0.44		0.45			3.34	0.01		0.04				
29		112-40-3	Dodecane	0.61	0.87						0.66							
30		142-82-5	Heptane															
31		544-76-3	Hexadecane	5.81	0.93		24.35						45.90					
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.37						0.91							
34		111-65-9	Octane															
35		629-62-9	Pentadecane	7.87	3.45	0.71	42.18	1.07	0.65				84.93					
36		629-59-4	Tetradecane	8.63	6.71	1.19	9.83	1.67	0.86				2.96					
37		629-50-5	Tridecane	0.84	1.61	0.31		0.40			1.88							
38		1120-21-4	Undecane	0.50	1.17						1.64							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.16						0.4							
40		611-14-3	Toluene, 2-ethyl-		0.30						0.7							
41		620-14-4	Toluene, 3-ethyl-		0.49						1.2							
42		622-96-8	Toluene, 4-ethyl-		0.31						0.8							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.33						0.8							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.83						2.0							
47		95-47-6	Benzene, 1,2-dimethyl-		5.44	0.38		0.5	0.4		13.3	1.0		1.2	1.0			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.29						0.7							
49		108-38-3	Benzene, 1,3-dimethyl-	0.26	13.92	1.01	0.5	1.2	1.0		33.5	1.9	0.7	2.4	1.8			
50		98-82-8	Benzene, isopropyl		1.18						2.9							
51		103-65-1	Benzene, propyl-		0.31						0.8							
52		100-41-4	Ethylbenzene	0.07	4.35	0.35	0.2	0.4	0.4		10.5	0.7	0.4	0.9	0.7			
53		91-20-3	Naphthalene	0.21	0.31	0.11					0.3							
54		99-87-6	p-Cymene				3.7						9.3					
55		100-42-5	Styrene		0.50		1.0				1.2		2.5					
56		108-88-3	Toluene	0.78	496.61	27.65	1.8	28.6	22.6		1216.8	66.6	2.5	69.0	54.1			
57		98-83-9	2-Phenylpropene		2.45						6.0							
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		26.67	1.30		0.9			65.4	3.2		2.2				
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate		11.42	1.61			1.4		28.0	4.0			3.5			
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol				13.9						34.4					
67		6846-50-0	TXIB		1.48	1.05	589.8	2.0	2.9		3.6	2.6	1460.2	5.0	7.3			

Table A. 57 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.6 h	24.2 h	48 h	72.1 h	97.2 h	0 h	1.6 h	24.2 h	48 h	72.1 h	97.2 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane		2.56						6.29							
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	3.50	4.57	1.43	2.17	2.70	5.49		2.65				4.95			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.43		27.70				1.05		68.59					
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.38		6.19				0.93		15.33					
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene				1.92						4.76					
103		5989-27-5	Limonene		1.34		3.60				3.29		8.90					
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid				1.37						3.40					
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid				2.22						5.49					
109		142-62-1	Hexanoic acid				17.96						44.45					
110		109-52-4	Pentanoic Acid				3.96						9.80					
111	Other	3777-69-3	Furan, 2-pentyl		5.18		20.21				12.72		50.03					
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide			21.21						52.62						
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.9 h	25.5 h	49.2 h	73.3 h	96 h	0 h	2.9 h	25.5 h	49.2 h	73.3 h	96 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	2.4	3.6	4.3	2.5	1.5	0.7		3.0	4.8	0.2			8.56	0.66	0.33

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 58: Micro-scale chamber concentration and emission factor for VF32_m (vinyl sheet; 3 mm thick)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		24.34	5.46					71.00	15.93						
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		106.05	13.45	39.46	34.20	29.71		309.32	39.24	115.09	99.75	86.65			
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.58						1.70							
6		108-95-2	Phenol	2.57	38.13	30.04	17.82	12.02	12.32		103.73	80.12	44.47	27.57	28.46	1017.87	0.81	0.95
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.49						1.44							
8		67-64-1	Acetone		5.00	0.87	1.85	1.44	3.85		14.60	2.55	5.38	4.19	11.24			
9		98-86-2	Acetophenone		4.62	2.38	1.61	0.98	2.61		13.48	6.93	4.70	2.85	7.63	9.78	0.16	0.05
10		108-94-1	Cyclohexanone		7.20	1.68	3.45	3.10	2.67		20.99	4.90	10.06	9.05	7.79			
11		108-10-1	Methylisobutyl ketone		3.01	0.72	0.71		0.24		8.77	2.11	2.07		0.69	33.19	0.81	0.77
12		100-52-7	Benzaldehyde		7.24	5.08	2.82	2.09	2.74		21.10	14.80	8.24	6.09	8.01	72.04	0.53	0.73
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		1.54						4.49							
18		66-25-1	Hexanal		50.01	16.72	11.77				145.86	48.76	34.33					
19		124-19-6	Nonanal		10.24		4.50				29.86		13.12					
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.36	0.59	0.82		0.54		3.98	1.71	2.39		1.58	2.33	0.06	0.03
29		112-40-3	Dodecane		24.23	10.08	14.73	11.74	10.63		70.68	29.40	42.97	34.25	31.02			
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		2.15	1.74	1.23	1.39	1.51		6.26	5.07	3.58	4.04	4.41	6.47	0.11	0.19
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane		0.37						1.07							
35		629-62-9	Pentadecane		19.78	16.71	15.61	13.77	13.39		57.70	48.75	45.53	40.17	39.04	84.55	0.17	0.94
36		629-59-4	Tetradecane		67.80	44.90	40.73	36.23	35.52		197.77	130.95	118.79	105.67	103.60	232.55	0.18	0.97
37		629-50-5	Tridecane		65.06	25.70	42.50	36.63	34.61		189.77	74.96	123.97	106.85	100.96			
38		1120-21-4	Undecane		1.13	0.41	0.49	0.38	0.46		3.29	1.19	1.43	1.10	1.35			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.12						0.3							
40		611-14-3	Toluene, 2-ethyl-		0.22		0.1	0.1	0.1		0.6		0.3	0.2	0.2	1.1	0.4	0.8
41		620-14-4	Toluene, 3-ethyl-		0.34		0.2	0.2	0.1		1.0		0.6	0.5	0.4	3.2	0.4	1.0
42		622-96-8	Toluene, 4-ethyl-		0.22		0.2	0.1	0.1		0.6		0.5	0.3	0.2	35.0	1.1	1.0
43		31017-40-0	Cyclohexene, 4-phenyl		1.77		1.1	0.9	0.9		5.2		3.3	2.6	2.5	14.5	0.4	0.9
44		71-43-2	Benzene		2.41				1.6		7.0				4.7			
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.33		0.2	0.1			1.0		0.5	0.4				
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.81		0.5	0.4			2.4		1.6	1.0				
47		95-47-6	Benzene, 1,2-dimethyl-		0.52	0.59	1.3	0.8	0.7		1.5	1.7	3.8	2.3	1.9			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.24		0.2	0.1	0.1		0.7		0.5	0.3	0.3	6.0	0.6	0.7
49		108-38-3	Benzene, 1,3-dimethyl-		2.95	1.25	5.5	4.2	2.7		8.6	3.6	16.1	12.2	7.7			
50		98-82-8	Benzene, isopropyl				0.4						1.1					
51		103-65-1	Benzene, propyl-		0.38			0.1	0.1		1.1			0.4	0.4			
52		100-41-4	Ethylbenzene		0.49	0.21	1.3	0.9	0.6		1.4	0.6	3.7	2.7	1.9			
53		91-20-3	Naphthalene		2.10	0.92	1.1	1.0	0.9		6.1	2.7	3.2	2.9	2.7			
54		99-87-6	p-Cymene		0.51		0.2	0.2			1.5		0.7	0.4				
55		100-42-5	Styrene		2.95	1.36	1.0	0.7	0.7		8.6	4.0	2.9	1.9	2.1	19.7	0.5	0.9
56		108-88-3	Toluene		4.29	1.35	7.2	3.6	2.2		12.5	3.9	21.1	10.4	6.5			
57		98-83-9	2-Phenylpropene		0.68	1.58					2.0	4.6						
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		1.01	0.47			0.9		2.9	1.4			2.7			
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		55.14	50.43	34.4	36.0	37.6		160.8	147.1	100.2	105.1	109.7	271.9	0.2	0.6

Table A. 58 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et		3.74	2.28	1.1		0.8		10.9	6.7	3.3		2.3	68.6	0.8	1.0
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene		32.81	2.79	5.85	2.86	1.12		95.70	8.14	17.05	8.35	3.27	72.60	0.56	0.25
89		79-01-6	Trichloroethylene	1.44	9.58	1.37	29.65	2.93	3.97		23.76		82.27	4.35	7.39	9.9E+07	3.73	0.69
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-				0.38						1.11					
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		6.83		3.36	2.38	2.07		19.94		9.80	6.93	6.05	148.94	0.71	0.98
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		1.24		0.67	0.53	0.46		3.61		1.95	1.56	1.35	15.38	0.53	1.00
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		9.53		4.61	3.84	3.10		27.79		13.43	11.19	9.04	120.49	0.56	0.98
102		79-92-5	Camphene															
103		5989-27-5	Limonene		1.50			0.58	0.42		4.39			1.70	1.23			
104	Acids	64-19-7	Acetic acid			43.51						126.91						
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid		2.41	2.21					7.02	6.44						
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane						2.26						6.59			
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether		0.86						2.52							
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.3	0.8	0.6	1.7	1.1	1.6		1.3	0.7	4.1	2.3	3.6			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 59: Micro-scale chamber concentration and emission factor for VF33_m (vinyl sheet; 1.7 mm thick)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		36.40	6.16					109.93	18.59						
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		5.24	3.74	2.78	2.56	2.47		15.83	11.28	8.39	7.73	7.46	28.79	0.30	0.95
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol															
6		108-95-2	Phenol		2935.70	1104.65	731.52	634.14	554.70		8865.46	3335.91	2209.09	1915.01	1675.11	15638.67	0.49	0.99
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone		2.50	2.17	1.34		2.72		7.53	6.56	4.06		8.21			
9		98-86-2	Acetophenone	0.98					1.52						1.63			
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	1.49	26.70	20.23	16.30	12.70	13.48		76.16	56.62	44.73	33.88	36.23	179.43	0.37	0.90
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		11.93						36.01							
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		8.64	6.88	4.06	3.31	2.66		26.08	20.79	12.27	10.01	8.03	174.70	0.67	0.99
29		112-40-3	Dodecane		2.53	1.97	1.97	1.87	1.74		7.65	5.94	5.96	5.64	5.25	7.87	0.08	0.70
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		117.44	84.23	76.95	72.01	70.90		354.64	254.36	232.39	217.45	214.11	383.21	0.13	0.99
32		110-54-3	Hexane															
33		111-84-2	Nonane		3.47	1.72	0.65		0.36		10.48	5.20	1.96		1.09	173.81	1.13	0.98
34		111-65-9	Octane		0.80						2.41							
35		629-62-9	Pentadecane		543.52	424.25	373.39	347.49	342.60		1641.36	1281.17	1127.59	1049.38	1034.61	2119.01	0.16	0.98
36		629-59-4	Tetradecane		2095.21	1749.01	1483.86	1415.16	1457.27		6327.28	5281.78	4481.07	4273.61	4400.78	8127.14	0.14	0.82
37		629-50-5	Tridecane		79.47	73.93	61.76	58.06	58.68		240.00	223.27	186.51	175.34	177.21	383.24	0.18	0.90
38		1120-21-4	Undecane		5.27	5.02	3.81	3.48	3.17		15.92	15.17	11.50	10.51	9.56	42.51	0.33	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.19	0.21	0.1	0.1	0.1		0.6	0.6	0.3	0.4	0.3	3.05	0.53	0.70
41		620-14-4	Toluene, 3-ethyl-		0.25	0.35	0.2	0.2	0.1		0.8	1.1	0.5	0.6	0.4	8.30	0.67	0.86
42		622-96-8	Toluene, 4-ethyl-		0.15	0.21	0.1	0.1	0.1		0.4	0.6	0.3	0.3	0.3	3.83	0.60	0.85
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene		0.90	0.87					2.7	2.6						
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.26	0.27		0.2	0.2		0.8	0.8		0.5	0.5	2.17	0.32	0.97
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.52	0.84	0.3	0.4	0.4		1.6	2.5	1.0	1.2	1.2	12.01	0.55	0.63
47		95-47-6	Benzene, 1,2-dimethyl-		0.41	3.27	0.3	0.7	0.7		1.2	9.9	0.9	2.1	2.1	169.30	1.06	0.42
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.28	0.30	0.1				0.9	0.9	0.4					
49		108-38-3	Benzene, 1,3-dimethyl-		0.82	14.36	1.8	3.7	2.9		2.5	43.4	5.5	11.2	8.7	845.03	1.06	0.52
50		98-82-8	Benzene, isopropyl		0.48	0.32	0.2				1.5	1.0	0.6					
51		103-65-1	Benzene, propyl-		0.83	0.71	0.4	0.3	0.4		2.5	2.1	1.2	1.0	1.1	10.80	0.54	0.87
52		100-41-4	Ethylbenzene		0.99	4.37	0.6	0.9	0.8		3.0	13.2	2.0	2.6	2.4	427.26	1.20	0.68
53		91-20-3	Naphthalene		0.48	0.41	0.3		0.2		1.5	1.2	0.8		0.7	4.81	0.44	0.93
54		99-87-6	p-Cymene															
55		100-42-5	Styrene		0.57	0.87	0.4	0.3	0.4		1.7	2.6	1.3	0.8	1.3	17.25	0.64	0.62
56		108-88-3	Toluene		5.58	27.30	3.7	3.5	2.9		16.9	82.4	11.3	10.6	8.9	10145.75	1.61	0.85
57		98-83-9	2-Phenylpropene					0.2						0.7				
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester				0.3						1.0					
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		1255.33	950.99	766.1	700.1	668.7		3790.9	2871.9	2313.7	2114.3	2019.3	6429.90	0.26	0.98

Table A. 59 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene		0.31		0.21	0.16			0.94		0.62	0.48				
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	0.81	11.78	9.43	2.00	5.00	10.28		33.14	26.03	3.60	12.67	28.61			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-		1.76	1.31	0.76	0.73	0.59		5.31	3.95	2.31	2.20	1.79	21.3	0.5	0.9
94		1678-91-7	Cyclohexane, ethyl-		0.76						2.29							
95		1678-92-8	Cyclohexane, propyl-		1.78	1.10	0.60				5.37	3.33	1.80					
96		91-17-8	Decahydronaphthalene			0.73	0.47					2.20	1.41					
97	Terpenes	80-56-8	alpha-Pinene		0.86	0.54	0.21				2.59	1.63	0.62					
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene															
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid		6.26			2.13			18.90			6.43				
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	1.1	0.9	0.3	1.6	0.6		3.2	2.5	0.7	4.7	1.5	3.54	0.15	0.09

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 60: Micro-scale chamber concentration and emission factor for VF33a_m (vinyl sheet and adhesive assembly)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.6 h	3.1 h	6 h	24 h	48.1 h	72.1 h	96.1 h	0 h	1.6 h	3.1 h	6 h	24 h	48.1 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		2.64								7.25									
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-						1.24	1.31							3.41	3.60				
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		10.67	10.16	12.02	9.70	11.50	5.60	1.53		29.35	27.96	33.07	26.67	31.63	15.39	4.20	59.82	0.36	0.41
6		108-95-2	Phenol		202.45	162.88	216.58	251.79	290.30	285.96	247.15		556.95	448.11	595.83	692.69	798.65	786.69	679.92			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.84	26.35	23.14	25.83	8.72	3.67	2.42	0.78	0.00	70.18	61.35	68.75	21.68	7.78	4.36		238.15	0.87	0.92
9		98-86-2	Acetophenone	0.58	1.16		1.39	3.44	1.14	1.07	0.37	0.00	1.59		2.23	7.87	1.55	1.36		5.35	0.24	0.10
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.54	9.02	8.42	9.07	7.41	6.79	5.83	4.05	0.00	23.33	21.69	23.46	18.92	17.21	14.57	9.65	31.10	0.19	0.71
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		2.41	1.76	1.42		1.13	1.05	0.79		6.64	4.85	3.91		3.11	2.88	2.19	5.80	0.18	0.89
29		112-40-3	Dodecane		1.48	0.99	0.91		0.97	0.97	0.85		4.07	2.73	2.51		2.66	2.66	2.33	2.60	0.01	0.03
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane		37.65	30.89	34.11	32.52	39.82	40.36	36.18		103.57	84.98	93.84	89.47	109.54	111.03	99.53			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		0.55				0.31				1.51				0.84					
34		111-65-9	Octane							0.49								1.36				
35		629-62-9	Pentadecane		246.59	201.01	208.18	191.63	226.12	228.83	203.12		678.40	553.00	572.73	527.18	622.08	629.53	558.80			
36		629-59-4	Tetradecane		1090.63	858.52	864.63	785.77	951.16	936.06	834.07		3000.42	2361.87	2378.67	2161.73	2616.73	2575.18	2294.60			
37		629-50-5	Tridecane		41.46	32.33	31.96	29.67	36.30	33.87	28.24		114.06	88.94	87.92	81.64	99.87	93.18	77.70	89.13	0.00	0.00
38		1120-21-4	Undecane		1.89	1.50	1.62	1.10	1.15	1.03	0.66		5.19	4.12	4.47	3.02	3.17	2.82	1.82	5.76	0.20	0.74
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-		0.24	0.16		0.18	0.20	0.15	0.14		0.67	0.45		0.50	0.56	0.42	0.39	0.48	0.02	0.02
41		620-14-4	Toluene, 3-ethyl-		0.41	0.30	0.28	0.33	0.39	0.35	0.35		1.12	0.84	0.78	0.89	1.06	0.96	0.95			
42		622-96-8	Toluene, 4-ethyl-		0.22	0.20	0.14	0.24	0.20	0.23	0.20		0.61	0.56	0.39	0.67	0.56	0.62	0.56			
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-						0.11		0.11						0.31		0.31			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.53				0.35	0.32	0.28		1.45				0.95	0.88	0.76	3.39	0.32	0.94
47		95-47-6	Benzene, 1,2-dimethyl-		1.24	0.87	1.48	0.75	0.58	0.46	0.33		3.40	2.39	4.08	2.07	1.60	1.27	0.90	5.02	0.32	0.73
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-	0.20	4.42	3.08	5.42	2.26	1.61	1.23	0.79	0.00	11.62	7.92	14.37	5.66	3.88	2.84	1.64	22.03	0.49	0.79
50		98-82-8	Benzene, isopropyl						0.45								1.22					
51		103-65-1	Benzene, propyl-		0.62	0.42	0.46	0.42	0.48	0.43	0.37		1.70	1.16	1.27	1.17	1.33	1.18	1.01	1.26	0.02	0.10
52		100-41-4	Ethylbenzene	0.07	1.78	1.15	2.09	1.26	1.08	0.89	0.64	0.00	4.71	2.97	5.55	3.27	2.77	2.26	1.56	5.62	0.22	0.52
53		91-20-3	Naphthalene		2.31	1.62	1.47	1.35	1.37	1.74	1.74		6.36	4.44	4.03	3.72	3.78	4.78	4.79			
54		99-87-6	p-Cymene		0.69	0.35	0.35	0.42	0.54	0.57	0.54		1.91	0.95	0.96	1.17	1.49	1.56	1.49			
55		100-42-5	Styrene		4.58	4.27	7.35	8.07	9.02	8.25	6.19		12.61	11.75	20.22	22.20	24.82	22.71	17.04			
56		108-88-3	Toluene	0.27	6.25	4.74	10.07	4.00	2.48	1.76	0.99	0.00	16.44	12.28	26.96	10.27	6.09	4.08	1.97	42.89	0.56	0.73
57		98-83-9	2-Phenylpropene							0.33								0.91				
58		95-13-6	Indene		2.00	1.15	1.20	1.85	2.40	2.81	2.73		5.51	3.17	3.29	5.10	6.60	7.73	7.51			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester						0.43								1.18					
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB		943.45	632.50	781.91	708.95	811.49	847.72	759.17		2595.51	1740.06	2151.11	1950.38	2232.47	2332.16	2088.54			

Table A. 60 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.6 h	3.1 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.6 h	3.1 h	6 h	24 h	48.1 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		1.73		2.85	2.70	1.74	0.92	0.37		4.77		7.85	7.44	4.79	2.52	1.01	19.12	0.40	0.68
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform								0.32								0.87			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.91	5.05	3.16	20.63	18.25	0.74	0.73	0.82	0.00	11.39	6.18	54.25	47.71						
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		0.77								2.12									
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene		3.27	1.50		1.46	2.15	2.08	2.01		8.98	4.12		4.03	5.91	5.73	5.52			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene		3.96	2.17	1.66	1.77	2.21	2.32	2.24		10.88	5.96	4.58	4.86	6.08	6.38	6.17			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene								0.35								0.95			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane				2.08		0.95						5.73		2.61					
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.7 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.7 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		0.3	0.4	0.5	1.2	0.0	0.3	0.2		0.9	1.1	1.3	3.2	0.1	0.7	0.6	2.39	0.36	0.15

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 61: Micro-scale chamber concentration and emission factor for VF34_m (vinyl plank)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		17.16	2.47					49.16	7.07						
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		106.90	67.78	50.36	40.30	35.31		306.29	194.20	144.29	115.47	101.18	883.90	0.47	1.00
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		19.96	2.62	1.11	1.29	1.57		57.19	7.50	3.19	3.69	4.48	21.85	0.40	0.41
6		108-95-2	Phenol		234.56	111.17	97.81	83.54	84.94		672.04	318.52	280.24	239.34	243.37	631.03	0.22	0.93
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		78.32	20.92	13.15	9.86	8.71		224.39	59.94	37.68	28.26	24.96	461.78	0.65	1.00
8		67-64-1	Acetone		7.20	4.45	3.94	9.79	3.31		20.62	12.75	11.28	28.04	9.48			
9		98-86-2	Acetophenone	0.91	4.19	3.06	1.75	1.42	2.31		9.40	6.17	2.42	1.46	4.02	27.27	0.55	0.28
10		108-94-1	Cyclohexanone		193.79	72.90	46.40	36.99	34.52		555.25	208.87	132.95	105.99	98.92	1189.18	0.56	0.98
11		108-10-1	Methylisobutyl ketone		414.39	111.30	68.60	52.50	49.89		1187.30	318.89	196.54	150.43	142.95	2106.19	0.60	0.98
12		100-52-7	Benzaldehyde	1.48	4.32	2.99	2.46	1.78	2.33		8.14	4.35	2.81	0.87	2.44	40.01	0.72	0.41
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal				17.91	15.63					51.31	44.78				
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		1.86						5.33							
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		8.75	5.01	3.05	2.09	1.95		25.06	14.35	8.75	5.99	5.59	136.86	0.71	0.98
29		112-40-3	Dodecane		2.20	1.39	1.24	0.96	1.02		6.29	4.00	3.54	2.74	2.92	9.39	0.27	0.85
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		0.76	0.50			0.37		2.18	1.44			1.05			
32		110-54-3	Hexane															
33		111-84-2	Nonane		25.73	9.24	4.67	3.43	2.96		73.73	26.48	13.38	9.82	8.48	362.45	0.84	0.99
34		111-65-9	Octane		8.90	2.30	1.42	0.87	0.93		25.49	6.58	4.06	2.49	2.67	63.32	0.72	0.93
35		629-62-9	Pentadecane		6.52	2.55	2.03	1.35	1.72		18.68	7.31	5.80	3.88	4.92	23.46	0.37	0.70
36		629-59-4	Tetradecane		3.39	1.91	1.83	1.90	1.40		9.72	5.46	5.23	5.45	4.00	9.70	0.17	0.45
37		629-50-5	Tridecane		1.30	0.77	0.50	0.59	0.74		3.73	2.20	1.44	1.68	2.11	2.33	0.06	0.03
38		1120-21-4	Undecane		2.77	1.85	1.33	1.05	1.14		7.93	5.30	3.81	3.01	3.27	17.81	0.39	0.89
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.67	0.46	0.3	0.3	0.3		1.9	1.3	1.0	0.9	0.8	4.20	0.37	0.96
40		611-14-3	Toluene, 2-ethyl-		2.62	1.57	0.9	0.7	0.6		7.5	4.5	2.5	2.1	1.6	41.90	0.71	0.99
41		620-14-4	Toluene, 3-ethyl-		6.83	4.03	2.1	1.6	1.3		19.6	11.6	5.9	4.6	3.8	139.29	0.80	0.99
42		622-96-8	Toluene, 4-ethyl-		3.75	1.63	1.2	1.2	0.8		10.7	4.7	3.5	3.5	2.2	22.04	0.48	0.81
43		31017-40-0	Cyclohexene, 4-phenyl		0.43		0.2				1.2		0.5					
44		71-43-2	Benzene		0.34				0.1		1.0				0.2			
45		526-73-8	Benzene, 1,2,3-trimethyl-		1.48	0.98	0.5	0.5	0.4		4.2	2.8	1.5	1.4	1.2	17.48	0.60	0.93
46		95-63-6	Benzene, 1,2,4-trimethyl-		6.25	4.31	2.1	2.0	1.5		17.9	12.3	6.1	5.6	4.4	112.85	0.72	0.95
47		95-47-6	Benzene, 1,2-dimethyl-		7.92	9.67	2.0	3.8	1.8		22.7	27.7	5.7	10.9	5.1	597.80	1.04	0.65
48		108-67-8	Benzene, 1,3,5-trimethyl-		1.63	1.10	0.5	0.6	0.4		4.7	3.2	1.5	1.7	1.2	20.93	0.62	0.86
49		108-38-3	Benzene, 1,3-dimethyl-		17.37	36.09	5.6	13.0	5.2		49.8	103.4	16.0	37.2	15.0	3187.80	1.17	0.60
50		98-82-8	Benzene, isopropyl		2.69	1.14	0.6	0.6	0.5		7.7	3.3	1.7	1.8	1.4	18.78	0.58	0.87
51		103-65-1	Benzene, propyl-		7.06	3.59	1.9	1.6	1.4		20.2	10.3	5.5	4.6	4.0	87.09	0.69	0.97
52		100-41-4	Ethylbenzene		11.88	12.57	2.9	4.2	2.2		34.0	36.0	8.2	12.0	6.2	1068.44	1.13	0.77
53		91-20-3	Naphthalene		2.04	1.21	0.8	0.7	0.7		5.8	3.5	2.2	1.9	1.9	13.72	0.45	0.91
54		99-87-6	p-Cymene		0.79	0.45	0.2		0.2		2.3	1.3	0.7		0.6	7.94	0.60	0.90
55		100-42-5	Styrene		4.54	2.53	1.2	1.3	0.9		13.0	7.3	3.5	3.6	2.5	64.14	0.71	0.90
56		108-88-3	Toluene		1678.73	599.62	330.0	263.0	215.8		4809.8	1718.0	945.4	753.5	618.4	17155.69	0.73	0.99
57		98-83-9	2-Phenylpropene		0.88						2.5							
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		5.14	1.43	0.8	0.5	0.9		14.7	4.1	2.2	1.4	2.6	16.45	0.49	0.42
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate		6.41						18.4							
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol		25.66	10.13	9.3	7.9	7.7		73.5	29.0	26.5	22.8	22.1	56.96	0.21	0.95
67		6846-50-0	TXIB		48.24	14.35	8.4	7.5	6.7		138.2	41.1	24.0	21.5	19.1	223.43	0.55	0.95

Table A. 61 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		27.69	8.89	6.1		3.5		79.3	25.5	17.6		10.0	226.29	0.68	0.99
73		112-34-5	Ethanol, 2-butoxyethoxy-		9.45		3.3	2.9	4.0		27.1		9.3	8.2	11.4			
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane		0.92						2.64							
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	1.15	25.28	9.35	2.44	14.89	3.78		69.13	23.52	3.72	39.37	7.55	42.35	0.30	0.03
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		5.09	1.26		0.68			14.59	3.62		1.96				
92		110-82-7	Cyclohexane		3.59	0.90	0.70		0.43		10.30	2.58	2.02		1.23	14.68	0.53	0.96
93		1678-93-9	Cyclohexane, butyl-		5.51	3.30	2.17	1.53	1.34		15.78	9.45	6.21	4.38	3.85	79.29	0.67	0.99
94		1678-91-7	Cyclohexane, ethyl-		18.96	5.53	2.82	2.14	1.85		54.33	15.86	8.08	6.13	5.29	194.85	0.80	0.98
95		1678-92-8	Cyclohexane, propyl-		14.32	5.89	3.63	2.14	1.52		41.04	16.89	10.41	6.13	4.36	402.51	0.98	0.98
96		91-17-8	Decahydronaphthalene		4.68	2.60	1.81				13.40	7.44	5.18					
97	Terpenes	80-56-8	alpha-Pinene		30.38	13.20	7.86	5.48	4.40		87.04	37.81	22.53	15.70	12.62	481.08	0.80	1.00
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.52						1.50							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		8.11	5.12	2.67	2.32	1.74		23.23	14.67	7.66	6.65	4.98	154.28	0.75	0.98
102		79-92-5	Camphene		1.43						4.09							
103		5989-27-5	Limonene			2.12		1.22	0.98			6.06		3.50	2.81	33.93	0.54	0.99
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid		3.23		2.48	1.83	1.95		9.26		7.09	5.26	5.60	28.23	0.37	0.66
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl				10.23	6.20	6.93				29.30	17.78	19.87	282.75	0.60	0.64
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane		5.27						15.11							
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.2 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
124	PFP	107-02-8	Acrolein		1.0	1.8	1.4	0.5	1.7		2.8	5.1	4.1	1.4	4.7	15.93	0.38	0.14

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 62: Micro-scale chamber concentration and emission factor for CRP10_m (area rug; polypropylene)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		13.03	6.32		1.68	3.42		38.45	18.66		4.97	10.10	134.98	0.66	0.52
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		19.63	2.86					57.92	8.45						
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		6.78						20.01							
6		108-95-2	Phenol		12.22	6.14		3.24	7.81		36.05	18.12		9.55	23.06	18.33	0.04	0.00
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone		2.27	2.31		2.10			6.70	6.81		6.19				
9		98-86-2	Acetophenone		3.21	2.56		2.53	1.31		9.48	7.56		7.45	3.86	24.84	0.35	0.45
10		108-94-1	Cyclohexanone		0.57						1.68							
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		4.50	2.99		1.74	1.90		13.29	8.84		5.13	5.60	28.53	0.38	0.89
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		5.53						16.32							
19		124-19-6	Nonanal		7.55						22.28							
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		2.83	0.30					8.35	0.88						
29		112-40-3	Dodecane		5.25	2.31					15.49	6.81						
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		145.22	131.37		89.94	111.49		428.56	387.68		265.43	329.01	669.35	0.18	0.49
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.58						1.71							
34		111-65-9	Octane															
35		629-62-9	Pentadecane		151.33	125.52		76.68	98.48		446.59	370.42		226.29	290.63	793.36	0.25	0.56
36		629-59-4	Tetradecane		54.42	38.74		19.95	24.19		160.60	114.33		58.87	71.39	410.89	0.41	0.78
37		629-50-5	Tridecane		8.92	5.14		1.85	1.95		26.32	15.18		5.46	5.74	167.93	0.77	0.95
38		1120-21-4	Undecane		2.50	0.46					7.38	1.35						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.42	0.09					1.2	0.3						
40		611-14-3	Toluene, 2-ethyl-		0.22						0.6							
41		620-14-4	Toluene, 3-ethyl-		0.51						1.5							
42		622-96-8	Toluene, 4-ethyl-		0.27						0.8							
43		31017-40-0	Cyclohexene, 4-phenyl		0.53	0.47					1.6	1.4						
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.47						1.4							
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.06						3.1							
47		95-47-6	Benzene, 1,2-dimethyl-		0.47						1.4							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.30						0.9							
49		108-38-3	Benzene, 1,3-dimethyl-	0.15	1.12						2.9							
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.19						0.6							
52		100-41-4	Ethylbenzene		0.32						0.9							
53		91-20-3	Naphthalene		2.93	0.98		0.3			8.6	2.9		0.8				
54		99-87-6	p-Cymene		0.44						1.3							
55		100-42-5	Styrene		0.43	0.49		0.4	0.4		1.3	1.4		1.2	1.1	2.5	0.2	0.9
56		108-88-3	Toluene	0.69	3.12	1.38		0.6	0.5		7.2	2.0						
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB															

Table A. 62 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane		1.13	0.45					3.33	1.32						
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	10.45	19.77	8.00		3.59	9.34		27.50							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene															
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		5.71	0.75					16.85	2.22						
104	Acids	64-19-7	Acetic acid		374.95	206.85		19.79	75.13		1106.51	610.45		58.41	221.71	17868.00	1.12	0.49
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	Coefficient: E = a t^{-b} with t > 2.7 h a	b	R^2
124	PFPH	107-02-8	Acrolein	0.2	0.4	1.1	0.7	0.8	0.3		0.6	2.8	1.5	1.9	0.3			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 63: Micro-scale chamber concentration and emission factor for CRP11_m (area rug; olefin)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol															
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		33.17	8.61		2.82	1.66		101.40	26.32		8.61	5.09	1010.00	1.14	0.99
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol															
6		108-95-2	Phenol		6.83	7.95		5.48	3.89		20.88	24.31		16.76	11.91	109.73	0.47	0.95
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone	0.98	2.74	4.59		2.03	1.77		5.38	11.03		3.21	2.41	369.06	1.11	1.00
9		98-86-2	Acetophenone		6.32	7.52		4.31	1.99		19.32	22.99		13.17	6.07	348.73	0.84	0.83
10		108-94-1	Cyclohexanone		2.53						7.73							
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		6.47	3.60		2.00	1.64		19.78	11.01		6.10	5.03	65.16	0.56	1.00
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		15.40						47.07							
19		124-19-6	Nonanal		10.66	3.08					32.57	9.42						
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		2.54	1.56		0.29			7.77	4.77		0.90				
29		112-40-3	Dodecane		2.87	1.28			0.47		8.77	3.92			1.43			
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		5.41	4.92			4.09		16.55	15.03			12.50			
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.72						2.22							
34		111-65-9	Octane															
35		629-62-9	Pentadecane		11.36	6.84			5.12		34.73	20.91			15.67			
36		629-59-4	Tetradecane		1.57	1.30			0.81		4.80	3.98			2.46			
37		629-50-5	Tridecane		5.51	2.86					16.85	8.75						
38		1120-21-4	Undecane		4.88	0.90					14.91	2.75						
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.50	0.19					1.5	0.6						
40		611-14-3	Toluene, 2-ethyl-		0.33						1.0							
41		620-14-4	Toluene, 3-ethyl-		0.63						1.9							
42		622-96-8	Toluene, 4-ethyl-		0.48						1.5							
43		31017-40-0	Cyclohexene, 4-phenyl		17.75	11.57		5.6	6.1		54.3	35.4		17.2	18.6	179.83	0.52	0.91
44		71-43-2	Benzene			1.15			0.1			3.5			0.3			
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.62	0.16					1.9	0.5						
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.52						4.6							
47		95-47-6	Benzene, 1,2-dimethyl-		0.85						2.6							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.38						1.2							
49		108-38-3	Benzene, 1,3-dimethyl-		2.10	0.43					6.4	1.3						
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.53						1.6							
52		100-41-4	Ethylbenzene		0.80	0.28					2.5	0.8						
53		91-20-3	Naphthalene		2.98	1.89		0.6	0.5		9.1	5.8		1.9	1.5	133.07	0.99	1.00
54		99-87-6	p-Cymene		0.62						1.9							
55		100-42-5	Styrene		1.81	0.86		0.4	0.6		5.5	2.6		1.3	1.8	8.42	0.38	0.65
56		108-88-3	Toluene	0.48	4.89	1.52		1.3	0.8		13.5	3.2		2.5	0.9	31.83	0.70	0.62
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester			1.54						4.7						
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		1.83				1.1		5.6				3.5			

Table A. 63 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		77.19						236.0							
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		1.40						4.3							
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene		0.45						1.37							
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	8.76	37.97	9.75		11.11	8.55		89.30	3.03		7.18				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.05	0.30					3.22	0.91						
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.33						1.00							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		12.19	2.76		1.06	0.87		37.28	8.45		3.24	2.65	124.6	0.8	1.0
104	Acids	64-19-7	Acetic acid		155.96	92.94					476.80	284.12						
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether		0.81						2.48							
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	Coefficient: E = a t^{-b} with t > 2.7 h a	b	R^2
124	PFPH	107-02-8	Acrolein		1.2	1.1	1.0	0.2	0.3		3.7	3.3	3.1	0.6	1.0	7.01	0.39	0.48

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 64: Micro-scale chamber concentration and emission factor for LAM7_m (laminated flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	8.25														
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	21.35														
4		67-63-0	2-Propanol		0.53						1.31							
5		64-17-5	Ethanol		1.85	0.39					4.52	0.95						
6		108-95-2	Phenol	2.22														
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone	1.68	7.80	1.93	1.23	1.52	2.32		14.98	0.61			1.60			
9		98-86-2	Acetophenone															
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	0.44														
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		6.85		2.14				16.76		5.27					
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		36.09						88.31							
19		124-19-6	Nonanal	2.42	1.49													
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.14						2.78							
29		112-40-3	Dodecane	0.28	0.24													
30		142-82-5	Heptane															
31		544-76-3	Hexadecane	4.94														
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.38						0.93							
34		111-65-9	Octane															
35		629-62-9	Pentadecane	5.58														
36		629-59-4	Tetradecane	4.60														
37		629-50-5	Tridecane	0.48														
38		1120-21-4	Undecane	0.28	0.51		0.28				0.55							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.16						0.4							
41		620-14-4	Toluene, 3-ethyl-		0.25						0.6							
42		622-96-8	Toluene, 4-ethyl-		0.20						0.5							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.23						0.6							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.54						1.3							
47		95-47-6	Benzene, 1,2-dimethyl-		0.60						1.5							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.17						0.4							
49		108-38-3	Benzene, 1,3-dimethyl-	0.15	1.11						2.3							
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.13						0.3							
52		100-41-4	Ethylbenzene		0.25						0.6							
53		91-20-3	Naphthalene		0.17						0.4							
54		99-87-6	p-Cymene		0.68						1.7							
55		100-42-5	Styrene															
56		108-88-3	Toluene	0.53	0.80	0.18	0.4	0.5	0.3		0.6							
57		98-83-9	2-Phenylpropene	0.76														
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.72				0.5		1.8				1.1			

Table A. 64 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	2.00	7.29	1.98	2.47	4.56	3.43		12.94		1.17	6.33	3.55			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		19.04	0.42	0.32				46.60	1.02	0.79					
98		99-86-5	alpha-Terpinene		0.85				0.97		2.08				2.40			
99		127-91-3	beta-Pinene		4.45						10.89							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		1.38						3.39							
102		79-92-5	Camphene		1.35						3.30							
103		5989-27-5	Limonene		6.07	0.86	4.14	1.70	4.27		14.86	2.11	10.19	4.20	10.58			
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		3.84						9.40							
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide			32.63						80.00						
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.9 h	25.5 h	49.3 h	73.4 h	96 h	0 h	2.9 h	25.5 h	49.3 h	73.4 h	96 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	3.5	11.8	4.2	2.6	2.5	1.6		20.5	1.7						

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 65: Micro-scale chamber concentration and emission factor for LAM8_m (bamboo laminated flooring)

#	Class	CAS #	Compound	Chamber concentration (μg m^{-3})						Emission factor (μg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		2.30						6.46							
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		1.97	1.70					5.52	4.77						
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol						0.55						1.54			
6		108-95-2	Phenol		4.01		2.50	2.10	5.26		11.25		7.03	5.90	14.78			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone	0.63	13.60	7.18	6.63	5.88	11.21		36.43	18.39	16.85	14.75	29.71			
9		98-86-2	Acetophenone		1.06	0.86	0.57	0.69	1.28		2.97	2.41	1.59	1.95	3.59			
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		4.43	2.52	1.43	1.42	2.60		12.43	7.07	4.00	4.00	7.29	7.73	0.09	0.03
13		123-72-8	Butanal		1.88						5.27							
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		2.88						8.08							
18		66-25-1	Hexanal		373.56	103.78	58.49	42.07	63.22		1048.90	291.40	164.23	118.13	177.52	1158.50	0.47	0.58
19		124-19-6	Nonanal		1.80				2.03		5.06				5.70			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		8.91	3.12	2.03	1.61	2.50		25.00	8.76	5.70	4.51	7.03	18.24	0.27	0.32
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-															
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-		0.18						0.5							
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-		0.58						1.6							
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.20						0.6							
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene															
55		100-42-5	Styrene	0.16	6.23	3.09	1.5	1.1	2.0		17.0	8.2	3.9	2.5	5.1	36.30	0.53	0.41
56		108-88-3	Toluene	0.32	1.28	0.44	0.2	0.3	0.6		2.7	0.3			0.9			
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester			4.30			1.0			12.1			2.7			
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.58						1.6							

Table A. 65 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform		0.22						0.62							
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	2.83	26.44	2.20	2.73	1.85	3.12		66.31				0.81			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.15						3.23							
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene															
104	Acids	64-19-7	Acetic acid		123.82	168.63	154.69	141.03	145.20		347.66	473.48	434.34	395.98	407.70	698.11	0.12	0.88
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		2.71	8.32	8.13	7.27	10.69		7.62	23.37	22.84	20.41	30.02			
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		1.17				2.36		3.27				6.62			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.5 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.5 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.2	2.8	1.5	1.4	0.2	0.5		7.1	3.5	3.2		0.8	14.06	0.51	0.74

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 66: Micro-scale chamber concentration and emission factor for COR1_m (cork flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		5.71			2.25			16.32			6.43				
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		4.79	3.80	2.24	2.24	1.53		13.69	10.86	6.40	6.40	4.39	70.59	0.59	0.92
6		108-95-2	Phenol		78.52	60.94	30.70	22.78	37.88		224.53	174.26	87.78	65.13	108.33	667.90	0.47	0.47
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.41						1.18							
8		67-64-1	Acetone	1.35	404.36	177.19	101.18	81.85	101.48		1152.38	502.80	285.48	230.18	286.33	2058.00	0.47	0.73
9		98-86-2	Acetophenone		1.45	0.74	0.72	0.65	2.66		4.14	2.13	2.07	1.85	7.62			
10		108-94-1	Cyclohexanone		40.09	22.92	10.47	7.69	9.01		114.64	65.54	29.93	21.98	25.77	625.31	0.74	0.85
11		108-10-1	Methylisobutyl ketone		0.50						1.43							
12		100-52-7	Benzaldehyde	1.00	26.16	11.34	5.82	4.18	7.40		71.93	29.56	13.77	9.08	18.30	128.85	0.52	0.40
13		123-72-8	Butanal		5.45	2.19					15.59	6.28						
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		5.24	2.94	2.50	1.60	3.03		14.99	8.40	7.14	4.58	8.66	12.11	0.14	0.08
17		111-71-7	Heptanal		20.13	11.47	5.41	4.12	6.33		57.56	32.80	15.48	11.78	18.09	157.30	0.54	0.57
18		66-25-1	Hexanal		2276.05	1267.11	631.81	473.26	555.62		6508.21	3623.21	1806.63	1353.26	1588.76	26951.86	0.66	0.84
19		124-19-6	Nonanal		7.48	5.21	3.37	2.96	6.97		21.40	14.91	9.64	8.47	19.94			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		5.17	3.95	2.48	2.37	4.70		14.77	11.30	7.09	6.76	13.43	9.52	0.01	0.00
22		2548-87-0	2-Octenal		2.78	2.12	1.03		1.74		7.96	6.06	2.94		4.99	7.77	0.14	0.07
23		110-62-3	Pentanal		51.53	19.41	9.97	9.14	8.65		147.34	55.50	28.51	26.13	24.72	334.26	0.59	0.89
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane						0.73						2.08			
32		110-54-3	Hexane	7.14														
33		111-84-2	Nonane															
34		111-65-9	Octane		2.41						6.89							
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane						0.27						0.78			
38		1120-21-4	Undecane						0.39						1.13			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-															
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-		0.22						0.6							
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-		0.89	0.30			0.3		2.6	0.9			0.9			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.28	0.12			0.1		0.8	0.3			0.3			
53		91-20-3	Naphthalene					0.2	0.3					0.4	0.8			
54		99-87-6	p-Cymene		0.50	0.27					1.4	0.8						
55		100-42-5	Styrene	0.59	0.36	0.41	0.3	0.2										
56		108-88-3	Toluene	0.50	5.46	1.88	1.1	0.7	1.4		14.2	4.0	1.7	0.6	2.5	28.2	0.7	0.3
57		98-83-9	2-Phenylpropene						0.7						2.0			
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		0.87						2.5							
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol						9.3						26.5			
67		6846-50-0	TXIB	0.42	2.61	13.30		50.3	357.2		6.3	36.8		142.7	1020.1			

Table A. 66 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e		5.91	1.74					16.9	5.0						
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-		10.35	5.95	2.9	1.8	4.3		29.6	17.0	8.2	5.2	12.3	56.6	0.4	0.3
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-		1.56	0.53					4.5	1.5						
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	3.35	19.33	2.01	2.05	1.45	21.09		45.70				50.72			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		11.38	3.26	1.13	0.81	0.99		32.53	9.34	3.24	2.33	2.83	160.70	0.95	0.83
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		3.22	1.57	0.62	0.46			9.21	4.48	1.78	1.32		159.94	1.14	0.98
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		0.95						2.73							
102		79-92-5	Camphene		0.63						1.80							
103		5989-27-5	Limonene		3.15	1.88	0.56		0.70		9.01	5.37	1.61		1.99	41.89	0.72	0.60
104	Acids	64-19-7	Acetic acid		563.63	260.85	119.91	90.73	140.09		1611.67	745.87	342.88	259.43	400.59	3808.90	0.56	0.58
105		79-31-2	Isobutyric acid		10.41	5.57		2.61	5.68		29.76	15.94		7.47	16.23	25.80	0.18	0.09
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		3.91				5.77		11.17				16.50			
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		23.51	57.24	13.65	14.23	15.68		67.21	163.67	39.04	40.69	44.84	2727.32	0.97	0.71
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.5 h	73.2 h	97.2 h	0 h	2.7 h	25.2 h	49.5 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.1	3.1	2.8	2.5	0.9	0.9		5.9	4.8	4.0			6.72	0.12	0.91

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 67: Micro-scale chamber concentration and emission factor for EWF1_m (engineered wood flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		12.94	13.01	8.29	7.29	12.24		38.42	38.63	24.61	21.64	36.33	54.48	0.16	0.11
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		4.85	3.67	1.87	2.19	2.35		14.40	10.90	5.56	6.50	6.98	26.62	0.33	0.47
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		1.37	1.08	0.52		0.44		4.07	3.19	1.54		1.31	22.34	0.64	0.88
6		108-95-2	Phenol		13.87	9.54	6.38	5.14	10.61		41.18	28.33	18.94	15.25	31.51	30.87	0.08	0.02
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		2.85	1.18	0.70	0.56	0.56		8.46	3.49	2.07	1.66	1.67	19.66	0.56	0.94
8		67-64-1	Acetone	0.99	111.65	62.16	32.87	21.73	28.26		328.45	181.57	94.64	61.56	80.95	1456.72	0.68	0.80
9		98-86-2	Acetophenone		3.17	1.38	0.93	0.70	1.53		9.41	4.10	2.75	2.09	4.54	4.74	0.10	0.03
10		108-94-1	Cyclohexanone		14.44	7.91	5.60	4.66	7.84		42.86	23.49	16.64	13.84	23.27	30.61	0.12	0.08
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		31.44	17.95	11.10	10.24	17.04		93.34	53.28	32.93	30.39	50.58	71.37	0.14	0.09
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		11.14	3.88	2.31	1.67	3.10		33.05	11.52	6.86	4.97	9.20	26.71	0.31	0.26
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		60.72	25.41	16.66	13.85	23.10		180.23	75.42	49.46	41.12	68.57	118.19	0.18	0.15
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		2.15			0.53			6.39			1.58				
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane			0.64						1.89						
37		629-50-5	Tridecane			0.60		0.33	0.57			1.77		0.98	1.70	2.85	0.17	0.14
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-		0.31						0.9							
42		622-96-8	Toluene, 4-ethyl-		0.25						0.7							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.21						0.6							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.82		0.2				2.4		0.7					
47		95-47-6	Benzene, 1,2-dimethyl-															
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.17						0.5							
49		108-38-3	Benzene, 1,3-dimethyl-		0.43	0.17			0.3		1.3	0.5			0.8			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.19						0.6							
52		100-41-4	Ethylbenzene		0.24	0.09		0.1	0.2		0.7	0.3		0.3	0.5			
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene															
55		100-42-5	Styrene		0.99	0.65	0.5	0.4	0.7		2.9	1.9	1.4	1.3	2.2	1.75	0.02	0.00
56		108-88-3	Toluene	0.42	2.20	1.21	0.9	1.1	1.7		5.3	2.3	1.5	1.9	3.9			
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester		19.48	11.84	8.1	8.0	12.7		57.8	35.1	24.1	23.8	37.8	34.04	0.04	0.01
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.75			3.3			2.2			9.9				

Table A. 67 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-		22.52	17.80	12.2	11.8	19.1		66.8	52.8	36.2	35.1	56.8	52.06	0.04	0.01
72		111-76-2	Ethanol, 2-butoxy-		10.15	4.47			3.0		30.1	13.3			9.0			
73		112-34-5	Ethanol, 2-butoxyethoxy-		4.53	2.04					13.4	6.1						
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane		0.54						1.59							
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	6.03	7.92	2.17	1.95	2.86	5.86		5.60							
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene															
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene															
104	Acids	64-19-7	Acetic acid		779.09	1011.95	630.00	803.19	649.56		2312.57	3003.78	1870.03	2384.12	1928.08	6433.0	0.3	0.5
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		4.38						13.00							
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.7 h	25.2 h	49.5 h	73.1 h	97.1 h	0 h	2.7 h	25.2 h	49.5 h	73.1 h	97.1 h	a	b	R^2
124	PFPI	107-02-8	Acrolein	0.6	17.5	3.6	2.1	2.2	1.6		50.2	9.1	4.6	4.8	3.0	105.27	0.77	0.99

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 68: Micro-scale chamber concentration and emission factor for BAM1_m (solid bamboo flooring)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.3 h	72 h	96 h	0 h	1.5 h	24 h	48.3 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol															
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		1.34	0.69			0.66		3.87	1.99			1.90			
6		108-95-2	Phenol		6.32	2.88	2.83	3.06	4.49		18.18	8.29	8.14	8.81	12.91			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.28						3.69							
8		67-64-1	Acetone		88.87	44.95	28.48	25.05	33.76		255.64	129.31	81.92	72.06	97.10	281.07	0.28	0.44
9		98-86-2	Acetophenone		1.27	0.71	0.52	0.37	1.25		3.65	2.03	1.51	1.05	3.60			
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		7.37	4.33	2.75	2.54	4.06		21.21	12.46	7.92	7.32	11.69	16.94	0.14	0.10
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		119.09	72.74	43.12	40.25	63.29		342.57	209.23	124.04	115.80	182.06	331.44	0.19	0.16
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		36.60	13.32		7.84	7.63		105.30	38.32		22.56	21.94	146.11	0.43	0.98
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		5.09	2.71	1.38				14.64	7.80	3.96					
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.35	0.12					1.0	0.3						
40		611-14-3	Toluene, 2-ethyl-		1.57	0.32	0.1	0.1			4.5	0.9	0.4	0.2		50.89	1.27	0.99
41		620-14-4	Toluene, 3-ethyl-		2.54	0.51					7.3	1.5						
42		622-96-8	Toluene, 4-ethyl-		1.45	0.26					4.2	0.8						
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.70	0.17					2.0	0.5						
46		95-63-6	Benzene, 1,2,4-trimethyl-		2.22	0.58					6.4	1.7						
47		95-47-6	Benzene, 1,2-dimethyl-		1.14	0.31	0.1		0.2		3.3	0.9	0.4		0.5	2.92	0.43	0.46
48		108-67-8	Benzene, 1,3,5-trimethyl-		1.85	0.36	0.1	0.1			5.3	1.0	0.4	0.3		57.86	1.27	0.99
49		108-38-3	Benzene, 1,3-dimethyl-		4.56	1.14	0.6	1.1	0.8		13.1	3.3	1.6	3.1	2.4	4.21	0.13	0.06
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.96	0.27					2.8	0.8						
52		100-41-4	Ethylbenzene		1.72	0.54	0.3	0.2	0.4		4.9	1.6	0.8	0.7	1.2	3.74	0.33	0.28
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene															
55		100-42-5	Styrene		0.45	0.34	0.2		0.4		1.3	1.0	0.4		1.1			
56		108-88-3	Toluene	0.22	44.68	15.61	8.6	6.9	10.8		127.9	44.3	24.1	19.3	30.5	127.28	0.38	0.41
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene		0.33						0.9							
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		2.84			0.5	0.5		8.2			1.5	1.6			
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone		8.07						23.2							
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		2.27				3.0		6.5				8.7			

Table A. 68 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48.3 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48.3 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane		51.01	24.19	16.22	12.99	17.25		146.75	69.58	46.67	37.37	49.63	178.31	0.32	0.57
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	2.60	35.53	2.43	2.17	3.12	7.40		94.72			1.50	13.80			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		11.03	2.47	0.84	0.61	0.75		31.72	7.11	2.41	1.75	2.16	121.20	0.94	0.82
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.70						2.01							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.71						2.04							
104	Acids	64-19-7	Acetic acid		3653.47	2797.53	2051.96	1880.94	2403.73		10509.64	8047.43	5902.71	5410.75	6914.60	12559.45	0.17	0.32
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.7 h	25.2 h	49.5 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.7 h	25.2 h	49.5 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.4	11.7	5.6	2.9	2.2	1.9		32.4	14.8	7.2	5.1	4.2	64.42	0.57	0.94

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 69: Micro-scale chamber concentration and emission factor for SHV1_m (shelving – MDF)

				Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
#	Class	CAS #	Compound	0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	7.62	9.55		6.27	3.72			4.79							
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-	16.27	2.82	1.56	4.59											
4		67-63-0	2-Propanol		6.64	7.59	1.91	3.19	1.21		16.40	18.93	4.75	8.00	3.03	566.91	1.11	0.72
5		64-17-5	Ethanol		2.97	2.25	0.70				7.35	5.61	1.74					
6		108-95-2	Phenol	1.54			4.13						6.46					
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.77	0.80		0.35			1.90	1.99		0.88				
8		67-64-1	Acetone	1.42	20.84	22.85	5.12	7.81	3.47		47.98	53.40	9.22	16.01	5.13	4548.81	1.45	0.76
9		98-86-2	Acetophenone				0.27						0.68					
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	0.45	0.69	0.28	0.78		0.40		0.60		0.83					
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural				1.57						3.90					
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		65.21	8.68	45.41	31.87	30.55		161.12	21.64	113.17	79.88	76.43			
19		124-19-6	Nonanal		1.62		2.42				3.99		6.04					
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal				1.66	1.16					4.13	2.90				
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane	0.34														
29		112-40-3	Dodecane	0.44	0.40		0.31											
30		142-82-5	Heptane															
31		544-76-3	Hexadecane	6.60	0.30													
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane	8.22	0.44													
36		629-59-4	Tetradecane	7.08	0.75		0.59	0.28										
37		629-50-5	Tridecane	0.63														
38		1120-21-4	Undecane	0.37	0.40						0.09							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-		0.12						0.3							
41		620-14-4	Toluene, 3-ethyl-		0.25						0.6							
42		622-96-8	Toluene, 4-ethyl-		0.17						0.4							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.17						0.4							
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.21	0.48						0.7							
47		95-47-6	Benzene, 1,2-dimethyl-		10.39	0.98	2.2	2.0	1.7		25.7	2.4	5.6	4.9	4.3			
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.14						0.4							
49		108-38-3	Benzene, 1,3-dimethyl-	0.19	29.51	3.51	6.2	5.6	4.8		72.5	8.3	15.0	13.4	11.6			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-		0.24						0.6							
52		100-41-4	Ethylbenzene		9.09	1.57	1.9	1.7	1.6		22.5	3.9	4.8	4.2	3.9	4.23	0.00	0.00
53		91-20-3	Naphthalene		0.15						0.4							
54		99-87-6	p-Cymene		0.26						0.6							
55		100-42-5	Styrene		0.38		0.4				0.9		0.9					
56		108-88-3	Toluene	0.39	5.78	3.06	2.8	1.4	1.2		13.3	6.7	6.0	2.7	2.1	126.31	0.88	0.84
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate			0.55						1.4						
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol		5.56	3.38	13.9	3.7	4.0		13.7	8.4	34.6	9.2	10.1	13.59	0.01	0.00
67		6846-50-0	TXIB		1.02	0.34	1.1	0.6	0.6		2.5	0.8	2.8	1.5	1.5			

Table A. 69 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-		63.24	24.33	81.3	50.1	40.0		156.2	60.6	202.6	125.5	100.1			
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	2.70	8.68	9.27	16.81	2.95	2.88		14.77	16.37	35.17	0.63	0.45	447924.9	2.9	0.6
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		3.00		0.32				7.42		0.79					
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.73						1.81							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		1.55		1.14	1.41	0.56		3.83		2.84	3.53	1.41	111.9	0.9	0.4
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		2.80		2.35				6.91		5.85					
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.9 h	25.5 h	49.3 h	73.4 h	96 h	0 h	2.9 h	25.5 h	49.3 h	73.4 h	96 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.7	5.7	4.6	3.4	2.3	2.0		10.2	7.3	4.4	1.7	0.8	27.85	0.62	0.68

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 70: Micro-scale chamber concentration and emission factor for SHV2_m (shelving – particleboard)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	8.57	7.89	2.76	4.94											
2		71-23-8	1-Propanol		2.47						6.37							
3		104-76-7	Hexanol, 2-ethyl-1-	21.33	4.46		4.53	2.33	82.32						158.41			
4		67-63-0	2-Propanol			15.13	7.41	10.02				39.19	19.15	25.95		145.62	0.45	0.47
5		64-17-5	Ethanol		5.93	2.92	2.63	1.94	0.82		15.33	7.57	6.80	5.04	2.13	116.66	0.80	0.70
6		108-95-2	Phenol		1.49		2.39				3.86		6.17					
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.80	0.60	0.85	0.82	10.64		4.66	1.56	2.20	2.12	27.64			
8		67-64-1	Acetone	1.47	633.72		117.00	207.43	5.20		1634.66		298.41	533.48	9.67	2.00E+10	4.49	0.54
9		98-86-2	Acetophenone															
10		108-94-1	Cyclohexanone						2.17						5.65			
11		108-10-1	Methylisobutyl ketone		0.81				0.78		2.10				2.04			
12		100-52-7	Benzaldehyde	0.63	4.65	1.57	2.25	1.89			10.39	2.44	4.17	3.26				
13		123-72-8	Butanal		25.68			6.53			66.41			16.92				
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		29.98	5.40	6.69	4.69			77.52	13.98	17.28	12.16		19.55	0.08	0.07
18		66-25-1	Hexanal		2450.07	407.70	462.37	321.41			6334.59	1056.05	1194.35	832.52		1980.17	0.18	0.28
19		124-19-6	Nonanal		13.83	4.88	8.11	6.37	0.83		35.76	12.64	20.94	16.50	2.16	430.91	0.95	0.31
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		11.46	4.10	4.23	3.36			29.62	10.62	10.93	8.71		18.24	0.16	0.50
22		2548-87-0	2-Octenal		9.47		3.71	2.07			24.49		9.57	5.35				
23		110-62-3	Pentanal		85.40	17.83	31.89	17.53			220.81	46.19	82.37	45.40				
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane		3.85						9.96							
28		124-18-5	Decane	0.36	0.93						1.48							
29		112-40-3	Dodecane	0.45	0.65						0.52							
30		142-82-5	Heptane															
31		544-76-3	Hexadecane	7.26	0.55		0.31											
32		110-54-3	Hexane															
33		111-84-2	Nonane		1.06						2.75							
34		111-65-9	Octane		2.21						5.71							
35		629-62-9	Pentadecane	8.58	0.44				1.02									
36		629-59-4	Tetradecane	6.85	0.76				2.03									
37		629-50-5	Tridecane	0.66					0.47									
38		1120-21-4	Undecane	0.37	0.63						0.67							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-															
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene															
45		526-73-8	Benzene, 1,2,3-trimethyl-	0.09														
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.19														
47		95-47-6	Benzene, 1,2-dimethyl-		1.01				0.3		2.6				0.8			
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-		4.23	0.26	0.4	0.3	0.9		10.9	0.7	1.1	0.8	2.3			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.42		0.1		0.4		1.1		0.2		0.9			
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene		29.16	6.33	5.2	3.3			75.4	16.4	13.4	8.4		108.19	0.58	0.87
55		100-42-5	Styrene	0.21	0.68	0.14					1.2							
56		108-88-3	Toluene	0.44	8.72	0.61	1.5	1.2	112.2		21.4	0.4	2.8	1.9	290.4			
57		98-83-9	2-Phenylpropene						0.4						1.0			
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester						1.5						3.9			
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate						1.9						4.9			
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		1.35		0.9	0.6	0.9		3.5		2.2	1.5	2.5			

Table A. 70 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.7 h	24.2 h	48 h	72.2 h	97.3 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	1.99	4.43	4.21	5.67	5.02	11.85		6.30	5.73	9.48	7.85	25.60			
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		963.63	42.83	46.41	27.60			2491.44	110.94	119.89	71.50		367.22	0.35	0.48
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		198.07	12.53	11.20	6.22			512.10	32.44	28.93	16.11		231.29	0.59	0.76
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		19.19	2.08	2.28	1.16			49.62	5.38	5.90	2.99		26.57	0.47	0.49
102		79-92-5	Camphene		54.79	2.32	2.99	1.93			141.66	6.00	7.71	4.99		9.43	0.11	0.08
103		5989-27-5	Limonene		37.16	5.64	4.82	3.05			96.07	14.62	12.46	7.90		83.36	0.53	0.84
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid				4.27						11.02					
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		224.37	32.34	31.61	19.77			580.10	83.77	81.65	51.21		329.12	0.41	0.66
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.9 h	25.5 h	49.3 h	73.4 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.9 h	25.5 h	49.3 h	73.4 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	7.7	32.5	12.3	17.3	8.9	6.5		64.5	12.0	24.6	3.1		148.14	0.72	0.66

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 71: Micro-scale chamber concentration and emission factor for MDF3_m (MDF panel)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		12.55	11.39	5.00	6.39	6.82		36.49	33.11	14.54	18.59	19.82	87.49	0.36	0.40
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		2.84	2.81		1.57			8.26	8.18		4.58				
6		108-95-2	Phenol		34.28	17.11	7.03	11.68	18.00		99.68	49.76	20.46	33.97	52.35			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.68	0.70					1.98	2.05						
8		67-64-1	Acetone	0.82	252.09	202.19	126.21	141.13	136.66		730.72	585.61	364.64	408.02	395.04	1269.31	0.27	0.60
9		98-86-2	Acetophenone		7.11	10.78	3.52	7.10	3.41		20.67	31.35	10.23	20.63	9.93	203.75	0.64	0.47
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		26.43	32.82	20.25	25.26	26.52		76.86	95.44	58.89	73.47	77.12	133.37	0.14	0.19
13		123-72-8	Butanal		22.17	24.23	11.89	16.61	16.26		64.46	70.48	34.59	48.30	47.28	135.02	0.26	0.28
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal		3.38	2.80		1.85	2.45		9.84	8.13		5.37	7.13	13.58	0.17	0.36
16		98-01-1	Furfural		1.24						3.61							
17		111-71-7	Heptanal		34.24	37.93	24.08	28.81	33.66		99.57	110.32	70.02	83.79	97.88	132.66	0.10	0.09
18		66-25-1	Hexanal		7175.97	10107.03	6211.57	6964.46	6405.60		20868.68	29392.59	18064.07	20253.57	18628.33	71921.10	0.31	0.68
19		124-19-6	Nonanal		29.11	30.28	17.72	24.26	30.46		84.66	88.05	51.53	70.57	88.58	75.50	0.01	0.00
20		18829-56-6	2-Nonenal		2.38	2.22		2.24			6.91	6.44		6.51				
21		124-13-0	Octanal		21.68	20.84	12.73	16.59	20.89		63.05	60.61	37.01	48.25	60.75	54.05	0.02	0.00
22		2548-87-0	2-Octenal		24.70	32.83	18.64	26.88	30.63		71.84	95.49	54.20	78.16	89.06	91.20	0.04	0.01
23		110-62-3	Pentanal		247.36	279.03	157.60	189.14	191.29		719.36	811.47	458.33	550.05	556.30	1643.29	0.26	0.43
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.01	0.75					2.95	2.18						
29		112-40-3	Dodecane		0.69	0.36					2.01	1.05						
30		142-82-5	Heptane		1.14			1.14			3.30			3.32				
31		544-76-3	Hexadecane		1.52	0.59		0.43	0.50		4.43	1.72		1.26	1.45	2.90	0.17	0.63
32		110-54-3	Hexane		0.35	0.61					1.02	1.78						
33		111-84-2	Nonane															
34		111-65-9	Octane		1.14	0.95	0.67	0.75	1.44		3.30	2.77	1.94	2.17	4.20			
35		629-62-9	Pentadecane		2.17	1.22	0.56	0.62	0.76		6.31	3.55	1.64	1.81	2.20	9.90	0.38	0.44
36		629-59-4	Tetradecane		3.59	1.58	0.73	0.80	0.54		10.44	4.60	2.11	2.33	1.58	39.53	0.70	0.87
37		629-50-5	Tridecane		0.60			0.31			1.73			0.91				
38		1120-21-4	Undecane		0.63	0.37		0.62			1.82	1.08		1.81				
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-		0.27						0.8							
42		622-96-8	Toluene, 4-ethyl-		0.15						0.4							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene		0.02	0.73		0.3			0.1	2.1		1.0				
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.84	0.68			0.5		2.5	2.0			1.5			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.78						2.3							
47		95-47-6	Benzene, 1,2-dimethyl-		0.30						0.9							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.25						0.7							
49		108-38-3	Benzene, 1,3-dimethyl-		1.09	0.33	0.1	0.2			3.2	1.0	0.4	0.6		4.38	0.52	0.46
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.33	0.20		0.2			1.0	0.6		0.6				
53		91-20-3	Naphthalene		0.25	0.39		0.2			0.7	1.1		0.5				
54		99-87-6	p-Cymene															
55		100-42-5	Styrene		0.56	1.05	0.7	0.9	0.7		1.6	3.0	1.9	2.6	1.9	6.14	0.24	0.42
56		108-88-3	Toluene	0.46	2.71	2.15	0.6	1.7	0.8		6.5	4.9	0.6	3.6	0.9	43.77	0.82	0.21
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		7.45	2.92	0.7	1.3	1.5		21.7	8.5	2.1	3.9	4.2	26.64	0.47	0.24

Table A. 71 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane		0.30	0.00					0.88	0.00						
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	7.60	18.65	25.42	3.92	15.09	10.87		32.12	51.81		21.78	9.51	1836.20	1.10	0.91
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.63	0.43					4.74	1.24						
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.43						1.24							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		1.11	0.69					3.22	2.02						
104	Acids	64-19-7	Acetic acid		590.71	480.19	65.29	391.80	478.40		1717.86	1396.46	189.86	1139.40	1391.24			
105		79-31-2	Isobutyric acid		20.66	18.92		10.84	11.04		60.07	55.03		31.53	32.12	206.97	0.42	0.95
106		107-92-6	Butyric acid		6.46	6.07					18.78	17.65						
107		111-14-8	Heptanoic acid			5.40						15.70						
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		885.82	863.94	261.01	536.00	535.47		2576.09	2512.45	759.06	1558.76	1557.22	4513.41	0.28	0.12
110		109-52-4	Pentanoic Acid		130.59	118.27	20.83	51.48	51.04		379.77	343.95	60.58	149.71	148.44	1202.28	0.53	0.20
111	Other	3777-69-3	Furan, 2-pentyl		8.85	25.98	16.35	13.60	14.17		25.74	75.54	47.56	39.55	41.20	317.56	0.47	0.90
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 2.7 h		
				0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.1	3.1	3.6	3.3	5.1	2.9		8.7	10.3	9.2	14.5	8.2			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 72: Micro-scale chamber concentration and emission factor for PB7_m (particle board)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol					2.24	1.96					4.56	3.99			
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-				0.58						1.18					
4		67-63-0	2-Propanol		2.51	3.70	5.95	5.91	6.15		5.10	7.52	12.09	12.02	12.51			
5		64-17-5	Ethanol		2.27	2.05	2.25	1.46	0.71		4.63	4.17	4.57	2.96	1.44	45.51	0.68	0.62
6		108-95-2	Phenol		2.37	0.96	1.87	1.26	1.14		4.82	1.96	3.81	2.55	2.31			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.21		0.36	0.49	0.45		0.43		0.74	0.99	0.92			
8		67-64-1	Acetone		187.51	240.06	312.56	317.46	213.55		381.28	488.13	635.56	645.51	434.24	565.39	0.01	0.00
9		98-86-2	Acetophenone	1.16	3.97	0.54	1.07	0.74	0.57		5.71							
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	1.38	4.91	3.05	3.88	4.36	4.02		7.17	3.40	5.07	6.05	5.37			
13		123-72-8	Butanal		1.67	2.30	3.38	3.36	2.94		3.41	4.67	6.86	6.84	5.97			
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		2.74	3.18	3.22	2.90	3.97		5.57	6.47	6.55	5.90	8.07			
18		66-25-1	Hexanal		235.91	241.01	334.14	350.53	335.16		479.69	490.07	679.44	712.76	681.51			
19		124-19-6	Nonanal		5.25	3.26	3.82	3.84	3.86		10.67	6.63	7.76	7.80	7.85			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		2.22	2.40	2.40	2.18	2.74		4.51	4.89	4.89	4.43	5.58			
22		2548-87-0	2-Octenal						1.98						4.03			
23		110-62-3	Pentanal		8.77	12.25	18.75	18.39	17.51		17.83	24.90	38.13	37.40	35.60			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane	0.30			0.22											
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane					1.04						2.12				
29		112-40-3	Dodecane		0.59		0.18	1.35			1.20		0.36	2.74				
30		142-82-5	Heptane			0.28		0.44				0.57		0.89				
31		544-76-3	Hexadecane					0.46						0.93				
32		110-54-3	Hexane															
33		111-84-2	Nonane					0.42						0.85				
34		111-65-9	Octane		0.38		0.33	0.31	0.32		0.77		0.68	0.62	0.64	0.93	0.09	0.47
35		629-62-9	Pentadecane					0.55						1.12				
36		629-59-4	Tetradecane		0.18			0.89			0.37			1.81				
37		629-50-5	Tridecane		0.61	0.35	0.45	1.35	0.36		1.24	0.71	0.92	2.74	0.73			
38		1120-21-4	Undecane					2.79						5.67				
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-					0.3						0.6				
40		611-14-3	Toluene, 2-ethyl-					0.1						0.2				
41		620-14-4	Toluene, 3-ethyl-					0.1						0.2				
42		622-96-8	Toluene, 4-ethyl-					0.2						0.4				
43		31017-40-0	Cyclohexene, 4-phenyl				0.1						0.3					
44		71-43-2	Benzene		1.02	1.15	0.6	0.8	0.4		2.1	2.3	1.1	1.7	0.7	18.0	0.7	0.6
45		526-73-8	Benzene, 1,2,3-trimethyl-					0.2						0.4				
46		95-63-6	Benzene, 1,2,4-trimethyl-					0.2						0.5				
47		95-47-6	Benzene, 1,2-dimethyl-	5.68	0.10	0.64	0.1	12.3						13.4				
48		108-67-8	Benzene, 1,3,5-trimethyl-					0.1						0.2				
49		108-38-3	Benzene, 1,3-dimethyl-	8.98	0.27	1.56	0.3	46.7	0.1					76.7				
50		98-82-8	Benzene, isopropyl					0.2						0.4				
51		103-65-1	Benzene, propyl-					0.1						0.1				
52		100-41-4	Ethylbenzene	1.78	0.14	0.55	0.1	9.6	0.0					15.9				
53		91-20-3	Naphthalene		0.07		0.1	0.1			0.1		0.3	0.2				
54		99-87-6	p-Cymene		0.19	0.29	0.4	0.3	0.4		0.4	0.6	0.8	0.5	0.7			
55		100-42-5	Styrene	1.07	0.32	0.35	0.7		0.2									
56		108-88-3	Toluene															
57		98-83-9	2-Phenylpropene					0.2						0.3				
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol					0.6						1.3				
67		6846-50-0	TXIB	0.13	0.24		0.5	8.8			0.2		0.7	17.6				

Table A. 72 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene					0.18						0.36				
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene					22.67						46.10				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		8.31	7.51	7.21	5.80	5.33		16.89	15.27	14.67	11.80	10.84	35.92	0.26	0.85
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		1.10	1.04	0.93	0.79	0.72		2.24	2.12	1.90	1.60	1.46	5.15	0.27	0.95
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		0.66	0.53	0.50	0.47	0.31		1.34	1.07	1.02	0.95	0.63	3.15	0.32	0.62
102		79-92-5	Camphene		0.25	0.19	0.28	0.20	0.19		0.51	0.40	0.58	0.40	0.38	0.54	0.06	0.03
103		5989-27-5	Limonene		0.34	0.46	0.69	0.38	0.34		0.69	0.93	1.40	0.77	0.68	2.56	0.26	0.25
104	Acids	64-19-7	Acetic acid		44.31	40.98	9.33	19.32	34.34		90.10	83.33	18.98	39.28	69.83	89.36	0.17	0.02
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.22	0.22	0.61	1.07	0.42		0.45	0.45	1.24	2.17	0.85			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.2	11.1	6.9	5.5	4.6	4.5		22.1	13.6	10.8	8.8	8.7	27.70	0.25	0.97

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 73: Micro-scale chamber concentration and emission factor for PIN2_m (pine wood paneling)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol															
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol		0.60						1.20							
5		64-17-5	Ethanol															
6		108-95-2	Phenol		2.08	0.54		0.53			4.21	1.09		1.06				
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone		9.73			2.90			19.68			5.85				
9		98-86-2	Acetophenone	0.82	0.91	0.70	0.57	0.41	0.43		0.18							
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	1.42	2.35	1.36	1.50	1.07	1.22		1.86		0.16					
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal		2.09	1.57		1.31	1.58		4.23	3.17		2.64	3.19	3.54	0.04	0.08
18		66-25-1	Hexanal		88.94	60.94	49.19	45.49	49.85		179.81	123.20	99.44	91.97	100.77	204.16	0.17	0.69
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal		4.42	2.96	2.60	2.25	2.17		8.94	5.99	5.26	4.55	4.39	12.73	0.23	0.98
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane	0.33				0.21										
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane						1.89						3.81			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-						0.0						0.1			
41		620-14-4	Toluene, 3-ethyl-						0.1						0.2			
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.02	1.01	0.07	0.4	0.6	0.6		2.0	0.1	0.8	1.1	1.2			
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-		0.14			0.1	0.3		0.3			0.2	0.7			
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-		0.45	0.11		0.3	1.3		0.9	0.2		0.6	2.6			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.16			0.1	0.4		0.3			0.2	0.7			
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene				0.1	0.1	0.1				0.2	0.2	0.2	0.43	0.22	0.86
55		100-42-5	Styrene		0.45		0.2		0.2		0.9		0.3		0.4			
56		108-88-3	Toluene															
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB															

Table A. 73 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene					0.10						0.20				
89		79-01-6	Trichloroethylene					4.46						9.01				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		1.50	1.13	0.97	0.84	0.92		3.03	2.28	1.96	1.69	1.86	3.98	0.18	0.77
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.35				0.10		0.71				0.20			
104	Acids	64-19-7	Acetic acid		54.65						110.48							
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.2	2.6	1.1	0.9	0.4	0.8		4.8	1.7	1.5	0.3	1.1	7.56	0.52	0.66

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 74: Micro-scale chamber concentration and emission factor for PLY4_m (plywood panel)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol															
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.88	0.82	1.29	0.82	0.74		1.87	1.73	2.72	1.73	1.56	2.81	0.10	0.06
6		108-95-2	Phenol					0.51	1.17					1.08	2.48			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone		10.92			3.60	3.82		23.10			7.62	8.08			
9		98-86-2	Acetophenone	0.98	1.29	0.40	0.59	0.21	1.12		0.66				0.29			
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	1.37	2.33	1.06	1.37	0.62	1.80		2.02				0.89			
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural						1.41						2.98			
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		19.83	32.08	38.56	39.23	37.69		41.95	67.86	81.57	82.99	79.74			
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal						0.58						1.22			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane	0.31														
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane					0.11						0.23				
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-															
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	0.12	0.10	0.83	0.3	0.5	0.6			1.5	0.5	0.9	1.0	2.84	0.30	0.14
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-		0.35				0.2		0.8				0.4			
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-	0.14	1.16				0.6		2.1				1.0			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene	0.05	0.24				0.1		0.4				0.2			
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene		0.13	0.24	0.3	0.3	0.3		0.3	0.5	0.7	0.7	0.7			
55		100-42-5	Styrene		0.24	0.11			0.2		0.5	0.2			0.4			
56		108-88-3	Toluene															
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB				0.2						0.4					

Table A. 74 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene															
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		1.26						2.66							
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		2.38	1.89	2.21	1.65	1.75		5.03	3.99	4.68	3.49	3.71	5.7	0.1	0.2
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.17			0.10	0.11		0.37			0.20	0.23			
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.29		0.28	0.32	0.27		0.61		0.60	0.68	0.57	0.7	0.0	0.0
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	0 h	2.2 h	24.7 h	48.7 h	73.3 h	97.3 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.3	3.2	0.8	1.7	1.3	1.0		6.0	1.0	2.8	2.0	1.5	6.20	0.31	0.48

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 75: Micro-scale chamber concentration and emission factor for OSB8_m (OSB panel)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		15.73	12.47	8.27	10.47	10.57		46.07	36.53	24.22	30.66	30.96	45.20	0.10	0.13
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-			1.69						4.96						
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		6.81	7.34	5.73	6.35	4.05		19.94	21.51	16.77	18.60	11.87	65.41	0.34	0.66
6		108-95-2	Phenol		28.92	20.56	12.47	12.20	17.45		84.68	60.21	36.53	35.73	51.09	94.94	0.19	0.20
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.84	1.67	1.10	1.31	1.28		5.39	4.90	3.22	3.85	3.75	7.78	0.17	0.37
8		67-64-1	Acetone	0.91	149.32	140.16	115.53	134.11	135.19		434.55	407.74	335.60	390.03	393.19	402.43	0.01	0.01
9		98-86-2	Acetophenone		4.30	2.70	4.55	5.05	1.88		12.59	7.92	13.32	14.78	5.50	12.84	0.07	0.01
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde		4.89	4.00	2.42	3.30	3.01		14.33	11.71	7.08	9.66	8.81	17.47	0.16	0.22
13		123-72-8	Butanal		14.43	14.05	9.65	13.23	12.33		42.26	41.14	28.27	38.73	36.12	44.06	0.05	0.04
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		1.74						5.09							
17		111-71-7	Heptanal		9.23	6.49	3.38	4.77	4.73		27.03	19.01	9.89	13.96	13.85	30.34	0.20	0.20
18		66-25-1	Hexanal		1557.48	1169.51	771.04	965.57	1105.79		4560.61	3424.54	2257.74	2827.38	3237.97	3472.26	0.05	0.02
19		124-19-6	Nonanal		3.27	5.37	1.25	2.70	1.98		9.57	15.73	3.67	7.90	5.79	78.64	0.60	0.35
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		2.05	2.27	1.31				5.99	6.63	3.82					
22		2548-87-0	2-Octenal		19.04	22.37	13.40	15.82	15.94		55.75	65.50	39.23	46.31	46.66	123.21	0.23	0.43
23		110-62-3	Pentanal		84.68	74.74	51.28	66.28	72.71		247.95	218.86	150.16	194.09	212.90	202.50	0.01	0.00
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		1.01	0.68					2.95	2.00						
29		112-40-3	Dodecane		0.53						1.56							
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		1.79		0.23				5.24		0.68					
32		110-54-3	Hexane															
33		111-84-2	Nonane		0.47	0.35					1.38	1.03						
34		111-65-9	Octane															
35		629-62-9	Pentadecane		1.39	0.55					4.07	1.61						
36		629-59-4	Tetradecane		1.27	0.58	0.28	0.30	0.35		3.71	1.70	0.83	0.89	1.03	4.96	0.39	0.51
37		629-50-5	Tridecane															
38		1120-21-4	Undecane		1.02	0.97		0.69			2.98	2.85		2.01				
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-		0.29						0.9							
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene			0.70						2.1						
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.19						0.6							
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.38						1.1							
47		95-47-6	Benzene, 1,2-dimethyl-		0.19						0.6							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.14						0.4							
49		108-38-3	Benzene, 1,3-dimethyl-		0.53	0.33		0.2			1.6	1.0		0.7				
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.16	0.12	0.1	0.2			0.5	0.4	0.4	0.5				
53		91-20-3	Naphthalene					0.2						0.5				
54		99-87-6	p-Cymene		0.31						0.9							
55		100-42-5	Styrene		0.67	0.34	0.4	0.6	0.5		2.0	1.0	1.1	1.9	1.4			
56		108-88-3	Toluene	0.54	2.08	1.86	0.9	1.7	0.7		4.5	3.9	1.0	3.4	0.5	104.99	1.05	0.41
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl este															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		5.43	1.39			0.5		15.9	4.1			1.5			

Table A. 75 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform			0.25						0.73						
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene	11.20	19.26	22.42	7.66	19.27	8.40		23.58	32.86		23.61				
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		0.92	0.50					2.68	1.47						
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.42						1.24							
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.81						2.39							
104	Acids	64-19-7	Acetic acid		503.19	418.27	238.19	359.62	380.67		1473.45	1224.76	697.47	1053.03	1114.67	1177.63	0.04	0.01
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		33.05	22.12	14.66	15.83	13.23		96.77	64.78	42.93	46.37	38.75	179.57	0.34	0.82
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		14.26	6.70	9.44	11.44	8.08		41.75	19.62	27.65	33.49	23.67			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 2.7 h		
				0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	0 h	2.7 h	25.3 h	49.2 h	73.3 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.4	3.9	2.4	2.9	3.8	3.0		10.2	5.8	7.3	10.0	7.7	9.54	0.05	0.10

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 76: Micro-scale chamber concentration and emission factor for SPR1_m (spruce subfloor)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		11.48	5.80	6.70	6.06	5.76		34.56	17.46	20.18	18.24	17.35	18.63	0.00	0.00
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol		1.34						4.04							
5		64-17-5	Ethanol		4.86	2.00	2.38	1.59	1.00		14.64	6.02	7.17	4.80	3.02	30.69	0.46	0.54
6		108-95-2	Phenol		2.10	1.36	1.99	1.30	1.59		6.33	4.10	5.98	3.93	4.78			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		1.00	0.43	0.50	0.63	0.65		3.01	1.30	1.52	1.90	1.96			
8		67-64-1	Acetone		77.43	21.72	22.17	27.66	23.96		233.15	65.42	66.75	83.28	72.16			
9		98-86-2	Acetophenone	0.58	0.96	0.48	1.22	0.64	0.92		1.14		1.93	0.19	1.01	95.23	1.24	0.13
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	1.16	1.74	1.51	2.90	1.39	1.63		1.75	1.05	5.23	0.69	1.43	2.25	0.10	0.00
13		123-72-8	Butanal		7.35	3.43	3.19	2.88	3.36		22.13	10.32	9.59	8.69	10.12	11.89	0.05	0.17
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		7.12	7.31	9.92	7.77	9.49		21.45	22.00	29.86	23.41	28.58			
17		111-71-7	Heptanal		3.56	3.14	2.12	2.29	2.60		10.73	9.47	6.39	6.91	7.84	13.98	0.15	0.29
18		66-25-1	Hexanal		1270.93	819.81	746.53	657.07	690.89		3827.12	2468.69	2248.00	1978.62	2080.48	3915.50	0.15	0.83
19		124-19-6	Nonanal		3.11	1.74	1.44	1.53	1.24		9.37	5.25	4.34	4.60	3.73	10.07	0.21	0.77
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		1.46	0.95		0.78	0.62		4.39	2.86		2.35	1.87	4.73	0.27	0.87
22		2548-87-0	2-Octenal		5.17	6.14	5.47	6.23	6.78		15.56	18.49	16.48	18.77	20.40			
23		110-62-3	Pentanal		46.05	23.42	23.55	21.35	22.75		138.66	70.52	70.92	64.29	68.51	81.02	0.04	0.32
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane	0.42														
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane		0.67	0.66	0.67	0.58	0.58		2.00	1.98	2.01	1.76	1.75	2.80	0.10	0.67
29		112-40-3	Dodecane		2.64	3.23	3.22	3.00	3.72		7.96	9.73	9.71	9.02	11.21			
30		142-82-5	Heptane															
31		544-76-3	Hexadecane				0.24		0.21				0.73		0.64			
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane		0.90	0.97	1.07	1.02	1.13		2.71	2.92	3.21	3.06	3.39			
37		629-50-5	Tridecane		0.47	0.39	0.34	0.28	0.26		1.41	1.18	1.02	0.85	0.79	3.06	0.29	0.97
38		1120-21-4	Undecane			0.27	0.38	0.33	0.30			0.83	1.14	1.01	0.91			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-		0.06			0.0			0.2			0.1				
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene		0.68	0.74	0.5	1.0	1.5		2.0	2.2	1.6	3.0	4.4			
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-					0.1						0.2				
47		95-47-6	Benzene, 1,2-dimethyl-	0.20	0.07		0.2											
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.04			0.0			0.1			0.1				
49		108-38-3	Benzene, 1,3-dimethyl-	0.71	0.20	0.10	0.3		0.1									
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene	0.18	0.08		0.1											
53		91-20-3	Naphthalene		0.10	0.07		0.1	0.1		0.3	0.2		0.3	0.3			
54		99-87-6	p-Cymene			0.10	0.1					0.3	0.2					
55		100-42-5	Styrene		0.18	0.22	0.3	0.2	0.1		0.5	0.6	0.8	0.7	0.4	1.96	0.29	0.31
56		108-88-3	Toluene	1.63														
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		0.21		0.2				0.6		0.7					

Table A. 76 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene															
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		2.07	0.77	0.64	0.42	0.42		6.25	2.33	1.92	1.26	1.27	11.24	0.48	0.90
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		0.42	0.19	0.17	0.12			1.27	0.56	0.52	0.36		1.98	0.38	0.74
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene		0.53	0.56	0.44	0.40	0.39		1.59	1.68	1.31	1.20	1.17	3.85	0.27	0.96
104	Acids	64-19-7	Acetic acid		825.99	551.02	592.55	444.03	541.85		2487.28	1659.27	1784.34	1337.10	1631.66	2160.33	0.08	0.14
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		39.42	12.18	7.50	7.56	6.31		118.71	36.69	22.57	22.76	19.01	144.65	0.45	0.91
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		0.92	0.77	0.95	1.37	1.29		2.77	2.33	2.86	4.13	3.87			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	24.7 h	48.7 h	73.4 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	24.7 h	48.7 h	73.4 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.2	8.7	31.3	3.8	4.6	4.1		25.6	93.5	10.8	13.1	11.8	46.52	0.24	0.16

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 77: Micro-scale chamber concentration and emission factor for IB1_m (I-beam; pine block)

#	Class	CAS #	Compound	Chamber concentration ($\mu g\ m^{-3}$)						Emission factor ($\mu g\ m^{-2}\ h^{-1}$)						Coefficient: $E = a\ t^{-b}$ with t > 24 h		
				0 h	1.5 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	24 h	48.1 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		16.33	12.81	12.07	9.44	5.56		12.64	9.92	9.35	7.31	4.31	61.55	0.53	0.72
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol		8.29	4.00	2.05	2.47			6.42	3.10	1.58	1.91		13.77	0.50	0.63
5		64-17-5	Ethanol		71.66	18.40	8.05	5.22	3.42		55.48	14.24	6.23	4.04	2.65	637.75	1.19	1.00
6		108-95-2	Phenol		938.01	532.46	438.62	402.30	297.21		726.25	412.26	339.61	311.48	230.12	1425.19	0.38	0.88
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.67	0.37	0.18	0.16	0.17		0.52	0.29	0.14	0.12	0.13	1.62	0.58	0.80
8		67-64-1	Acetone		228.80	138.10	86.03	76.03	59.46		177.15	106.93	66.61	58.86	46.04	672.60	0.58	0.98
9		98-86-2	Acetophenone		1.07	1.09	1.74	1.05	0.73		0.83	0.84	1.34	0.82	0.56	2.51	0.27	0.21
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone		9.48	4.32	2.61	2.19	1.36		7.34	3.35	2.02	1.70	1.05	40.73	0.78	0.95
12		100-52-7	Benzaldehyde															
13		123-72-8	Butanal		6.41	3.58	2.35	1.87	1.51		4.97	2.77	1.82	1.45	1.17	19.53	0.61	1.00
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural		1.94	1.31	1.39	0.98	0.55		1.51	1.02	1.08	0.76	0.42	7.20	0.56	0.63
17		111-71-7	Heptanal				7.09	5.46	5.00				5.49	4.23	3.87	39.35	0.51	0.97
18		66-25-1	Hexanal		2574.21	1754.39	1262.14	993.95	789.90		1993.09	1358.34	977.22	769.56	611.58	8362.19	0.56	0.99
19		124-19-6	Nonanal		20.60	15.11	18.10	19.44	15.62		15.95	11.70	14.01	15.05	12.09			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal		6.58	5.05	3.96	3.50	2.31		5.10	3.91	3.07	2.71	1.79	20.68	0.51	0.87
23		110-62-3	Pentanal		85.73	51.11	32.24	26.08	20.06		66.37	39.57	24.96	20.19	15.53	319.72	0.66	0.99
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane				0.65						0.51					
30		142-82-5	Heptane		1.31	0.68	0.54		0.37		1.01	0.53	0.42		0.29	2.19	0.44	0.98
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.94		0.38				0.73		0.30					
33		111-84-2	Nonane		0.55						0.43							
34		111-65-9	Octane		1.41	1.01		0.50	0.40		1.10	0.78		0.39	0.31	6.33	0.66	1.00
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane				0.23		0.17				0.18		0.13			
37		629-50-5	Tridecane		0.73	0.35		0.22			0.56	0.27		0.17				
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-															
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	3.91	2.26	2.51	4.1	1.7	1.4				0.2					
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-				0.3	0.5	0.5				0.2	0.4	0.4			
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-				0.8	1.7	1.2				0.6	1.3	0.9			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene				0.2	0.7	0.2				0.1	0.5	0.2			
53		91-20-3	Naphthalene															
54		99-87-6	p-Cymene		1193.26	1161.32	523.4	276.6	630.2		923.9	899.2	405.3	214.2	488.0	6123.83	0.66	0.45
55		100-42-5	Styrene		3.55	1.84	1.2	1.0	0.8		2.7	1.4	0.9	0.8	0.6	9.66	0.60	0.99
56		108-88-3	Toluene	0.77	22.20	12.35	11.0	9.0	5.6		16.6	9.0	8.0	6.4	3.7	60.62	0.57	0.76
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		1.98		0.4				1.5		0.3					
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB				1.3						1.0					

Table A. 77 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48.1 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48.1 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene															
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene			2.48						1.92						
97	Terpenes	80-56-8	alpha-Pinene		14835.95	13123.32	10020.73	7543.36	4409.05		11486.76	10160.75	7758.57	5840.46	3413.71	112361.3	0.7	0.9
98		99-86-5	alpha-Terpinene		10066.99	5044.21	405.32	194.30	1762.86		7794.38	3905.49	313.82	150.44	1364.89	102809.4	1.3	0.3
99		127-91-3	beta-Pinene		17056.97	11084.84	8411.56	6450.00	4032.95		13206.39	8582.45	6512.66	4993.92	3122.52	80298.5	0.7	0.9
100		99-85-4	gamma-Terpinene		1989.32	737.83	124.54	88.90	262.07		1540.24	571.27	96.43	68.83	202.90	8614.6	1.0	0.4
101		13466-78-9	3-Carene		13833.79	9224.22	6714.66	4992.35	3725.16		10710.83	7141.86	5198.84	3865.33	2884.21	56754.0	0.6	1.0
102		79-92-5	Camphene		5820.64	2221.86	761.65	427.77	883.37		4506.64	1720.28	589.71	331.20	683.95	21594.4	0.9	0.6
103		5989-27-5	Limonene		4053.94	2135.56	1704.09	1171.63	820.27		3138.77	1653.46	1319.39	907.14	635.09	15130.8	0.7	0.9
104	Acids	64-19-7	Acetic acid		429.78	351.08	255.20	324.49	72.91		332.76	271.82	197.59	251.24	56.45	4867.9	0.9	0.5
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		2.56						1.99							
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		45.23	22.75	34.98	13.67	16.86		35.02	17.61	27.08	10.59	13.05	63.4	0.3	0.3
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	24.7 h	48.9 h	73.3 h	94.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	24.7 h	48.9 h	73.3 h	94.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		12.6	11.1	9.0	3.5	3.8		9.8	8.6	6.9	2.7	2.9	15.06	0.31	0.59

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 78: Micro-scale chamber concentration and emission factor for IB2_m (I-beam; laminate block)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	24 h	48.1 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		28.37	17.98	15.94	13.70	12.36		57.58	36.49	32.35	27.80	25.09	87.90	0.27	0.96
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol		79.86	51.95	37.22	26.19	24.97		162.08	105.43	75.54	53.16	50.67	631.67	0.56	0.97
5		64-17-5	Ethanol		302.52	181.83	134.19	80.98	64.53		613.96	369.02	272.33	164.35	130.96	4483.16	0.76	0.95
6		108-95-2	Phenol	2.01	880.77	437.88	396.53	366.06	326.27		1783.42	884.59	800.65	738.83	658.06	1713.48	0.20	0.95
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		2.00	1.20	0.90	0.60	0.48		4.07	2.43	1.83	1.23	0.98	21.04	0.66	0.96
8		67-64-1	Acetone		443.02	217.11	141.52	102.82	84.62		899.09	440.62	287.20	208.68	171.73	3928.48	0.68	1.00
9		98-86-2	Acetophenone	0.36	0.88	1.55	2.29	0.75	1.47		1.06	2.42	3.92	0.80	2.26	9.71	0.39	0.12
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone		4.22	2.31	1.46	1.26	1.02		8.56	4.70	2.96	2.56	2.06	28.95	0.58	0.99
12		100-52-7	Benzaldehyde		4.79	4.02	4.28	2.71	3.02		9.72	8.15	8.68	5.49	6.12	20.62	0.27	0.55
13		123-72-8	Butanal		10.67	5.68	4.48	3.71	2.78		21.66	11.52	9.09	7.54	5.64	56.44	0.49	0.94
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal		1.21			0.84	0.85		2.46			1.70	1.72			
16		98-01-1	Furfural		3.03	1.92	1.40	1.08	0.74		6.14	3.89	2.84	2.19	1.49	33.12	0.66	0.94
17		111-71-7	Heptanal		14.52	10.95	11.63	10.32	10.08		29.48	22.22	23.61	20.95	20.45	28.47	0.07	0.40
18		66-25-1	Hexanal		1004.10	616.40	504.78	469.41	411.86		2037.79	1250.97	1024.45	952.65	835.86	3031.15	0.28	0.98
19		124-19-6	Nonanal		37.23	26.82	33.73	27.87	31.77		75.56	54.44	68.45	56.56	64.48			
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		12.68	8.16	9.01	8.72	9.71		25.73	16.56	18.29	17.71	19.70			
22		2548-87-0	2-Octenal		3.23	2.10	2.04	1.47	1.65		6.56	4.26	4.13	2.99	3.36	8.93	0.23	0.64
23		110-62-3	Pentanal		62.00	34.50	28.15	23.61	20.56		125.84	70.02	57.13	47.91	41.72	231.26	0.37	0.99
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane		0.81	0.46		0.31			1.65	0.94		0.62				
30		142-82-5	Heptane		2.59	1.53	1.45	1.19	1.09		5.25	3.11	2.94	2.41	2.21	7.23	0.25	0.88
31		544-76-3	Hexadecane															
32		110-54-3	Hexane					0.34						0.69				
33		111-84-2	Nonane															
34		111-65-9	Octane		2.95	1.65	1.42	1.35	1.27		5.98	3.35	2.88	2.74	2.58	6.01	0.19	0.99
35		629-62-9	Pentadecane					0.32	0.26					0.65	0.53			
36		629-59-4	Tetradecane		0.65	0.40	0.43	0.58	0.43		1.33	0.80	0.87	1.19	0.87			
37		629-50-5	Tridecane		2.49	0.88	0.70	0.59	0.54		5.05	1.79	1.43	1.20	1.10	5.60	0.36	1.00
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-															
42		622-96-8	Toluene, 4-ethyl-															
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	1.52	2.11	4.44	2.9	2.0	1.9		1.2	5.9	2.8	1.0	0.7	942.32	1.57	0.97
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-	0.66				1.9	0.1					2.6				
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-	1.80	0.39	0.16	0.2	11.0	0.3					18.7				
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene	0.74	0.13	0.07	0.1	2.1	0.1					2.8				
53		91-20-3	Naphthalene				0.1		0.1				0.2		0.2			
54		99-87-6	p-Cymene		3.27	1.75	1.2	1.0	0.7		6.6	3.6	2.4	1.9	1.4	29.33	0.65	0.97
55		100-42-5	Styrene	0.14	0.41	0.35	0.3	0.8	0.3		0.5	0.4	0.4	1.3	0.3			
56		108-88-3	Toluene	1.58	1.34	0.52	0.7	2.6	0.6					2.0				
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester		4.92	2.40	2.4	1.8			10.0	4.9	4.8	3.6		11.38	0.25	0.66
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB		1.00		0.3	0.2			2.0		0.6	0.5				

Table A. 78 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	24 h	48.1 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene															
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene		162.71	34.85	19.32	12.94	9.77		330.21	70.72	39.22	26.26	19.83	1324.09	0.92	1.00
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene		73.48	16.72	8.67	5.78	4.18		149.13	33.92	17.59	11.74	8.49	805.97	0.99	1.00
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene		4.21	1.44	0.87	0.43	0.29		8.54	2.93	1.77	0.88	0.58	134.31	1.17	0.96
102		79-92-5	Camphene		6.17	1.77	1.11	0.92	0.59		12.52	3.59	2.24	1.87	1.19	39.31	0.74	0.95
103		5989-27-5	Limonene		21.27	8.36	5.73	4.17	3.15		43.17	16.96	11.64	8.47	6.40	158.77	0.69	0.98
104	Acids	64-19-7	Acetic acid		446.56	114.83	145.15	187.93	254.19		906.28	233.04	294.57	381.40	515.88			
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid		6.69				0.74		13.57				1.49			
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl		6.64	2.98	10.91	6.97	6.35		13.47	6.04	22.14	14.15	12.89			
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	24.7 h	48.8 h	73.3 h	94.7 h	0 h	2.2 h	24.7 h	48.8 h	73.3 h	94.7 h	a	b	R^2
124	PFP	107-02-8	Acrolein		7.5	5.8	7.4	2.4	2.0		15.2	11.7	15.1	4.9	4.1	22.74	0.28	0.47

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 79: Micro-scale chamber concentration and emission factor for ACT5_m (acoustical ceiling tile)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		3.91						7.64							
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-		3.04	3.23	2.26	1.80	1.53		5.94	6.30	4.41	3.51	2.98	35.10	0.54	1.00
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol		0.80						1.56							
6		108-95-2	Phenol		3.99		2.64	3.70	2.59		7.79		5.15	7.24	5.05			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone		1.05		8.53				2.05		16.67					
9		98-86-2	Acetophenone	0.58	0.33	0.79	0.60	1.11	0.84			0.42	0.04	1.04	0.52			
10		108-94-1	Cyclohexanone		0.40						0.78							
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	0.81	0.81	1.27	1.28	1.38	1.31		0.01	0.91	0.93	1.12	0.99			
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal		12.36		0.93				24.13		1.81					
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal		0.72						1.40							
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-															
25		96-14-0	Pentane, 3-methyl-															
26		540-84-1	2,2,4-Trimethylpentane															
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane		0.72						1.41							
30		142-82-5	Heptane															
31		544-76-3	Hexadecane		0.37		0.39	0.35	0.24		0.73		0.76	0.68	0.47	9.96	0.65	0.86
32		110-54-3	Hexane															
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane		0.68	0.63	0.52	0.45	0.30		1.32	1.22	1.02	0.88	0.58	6.11	0.48	0.84
36		629-59-4	Tetradecane		1.18	0.90	0.54	0.24	0.16		2.30	1.75	1.05	0.47	0.30	114.15	1.28	0.95
37		629-50-5	Tridecane		0.50						0.98							
38		1120-21-4	Undecane		0.25						0.50							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-		0.05						0.1							
42		622-96-8	Toluene, 4-ethyl-		0.03						0.1							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	1.99	1.57	1.69	2.2	1.8	1.6				0.4					
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.13						0.3							
47		95-47-6	Benzene, 1,2-dimethyl-		0.40		0.4				0.8		0.8					
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.03						0.1							
49		108-38-3	Benzene, 1,3-dimethyl-		1.69		1.3		0.1		3.3		2.6		0.1			
50		98-82-8	Benzene, isopropyl															
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene		0.37		0.4				0.7		0.7					
53		91-20-3	Naphthalene		0.44		0.0				0.9		0.1					
54		99-87-6	p-Cymene															
55		100-42-5	Styrene		0.21		0.3	0.2	0.1		0.4		0.5	0.4	0.2	79.66	1.29	0.95
56		108-88-3	Toluene	0.39	0.41	0.44	0.9	0.3	0.9		0.0	0.1	1.0		1.1			
57		98-83-9	2-Phenylpropene															
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester		0.36						0.7							
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB				1.2						2.4					

Table A. 79 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene				0.41						0.80					
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene															
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene															
104	Acids	64-19-7	Acetic acid		9.08	65.36	36.46	21.97			17.73	127.66	71.22	42.92		2911.8	1.0	1.0
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	24.8 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	24.8 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein	5.5	6.7	2.1	2.4	1.7	1.0		2.2							

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 80: Micro-scale chamber concentration and emission factor for INS2_m (insulation board)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})						Emission factor (µg m^{-2} h^{-1})						Coefficient: E = a t^{-b} with t > 24 h		
				0 h	1.5 h	24 h	48 h	72 h	96 h	0 h	1.5 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol															
2		71-23-8	1-Propanol															
3		104-76-7	Hexanol, 2-ethyl-1-															
4		67-63-0	2-Propanol															
5		64-17-5	Ethanol															
6		108-95-2	Phenol		1.68	2.61					3.18	4.93						
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone															
8		67-64-1	Acetone	1.25	1.68	2.17	3.91				0.80	1.74	5.01					
9		98-86-2	Acetophenone	1.11	0.59	2.92	1.09	1.22	0.43			3.43		0.21				
10		108-94-1	Cyclohexanone															
11		108-10-1	Methylisobutyl ketone															
12		100-52-7	Benzaldehyde	1.14	28.52	14.41	9.87	7.03	6.12		51.66	25.05	16.48	11.13	9.40	255.34	0.72	0.99
13		123-72-8	Butanal															
14		112-31-2	Decanal															
15		3913-81-3	2-Decenal															
16		98-01-1	Furfural															
17		111-71-7	Heptanal															
18		66-25-1	Hexanal															
19		124-19-6	Nonanal															
20		18829-56-6	2-Nonenal															
21		124-13-0	Octanal															
22		2548-87-0	2-Octenal															
23		110-62-3	Pentanal															
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		8.16	2.17	0.81	0.89	0.78		15.39	4.10	1.54	1.68	1.46	34.70	0.72	0.79
25		96-14-0	Pentane, 3-methyl-		0.90	0.27					1.70	0.52						
26		540-84-1	2,2,4-Trimethylpentane			0.29						0.54						
27		108-08-7	2,4-Dimethylpentane															
28		124-18-5	Decane															
29		112-40-3	Dodecane															
30		142-82-5	Heptane															
31		544-76-3	Hexadecane															
32		110-54-3	Hexane		0.47						0.88							
33		111-84-2	Nonane															
34		111-65-9	Octane															
35		629-62-9	Pentadecane															
36		629-59-4	Tetradecane															
37		629-50-5	Tridecane															
38		1120-21-4	Undecane															
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-															
40		611-14-3	Toluene, 2-ethyl-															
41		620-14-4	Toluene, 3-ethyl-		0.05						0.1							
42		622-96-8	Toluene, 4-ethyl-		0.04						0.1							
43		31017-40-0	Cyclohexene, 4-phenyl															
44		71-43-2	Benzene	2.38	3.46	3.29	2.5	2.0	1.8		2.0	1.7	0.1					
45		526-73-8	Benzene, 1,2,3-trimethyl-															
46		95-63-6	Benzene, 1,2,4-trimethyl-															
47		95-47-6	Benzene, 1,2-dimethyl-	9.36	2.16		0.2											
48		108-67-8	Benzene, 1,3,5-trimethyl-															
49		108-38-3	Benzene, 1,3-dimethyl-	39.14	6.96	0.39	0.6	0.2	0.2									
50		98-82-8	Benzene, isopropyl		0.06						0.1							
51		103-65-1	Benzene, propyl-															
52		100-41-4	Ethylbenzene	4.36	22.21	6.52	4.2	3.0	2.4		33.7	4.1						
53		91-20-3	Naphthalene			0.06						0.1						
54		99-87-6	p-Cymene															
55		100-42-5	Styrene		82.68	37.42	24.2	18.6	14.6		156.0	70.6	45.6	35.2	27.6	595.53	0.67	1.00
56		108-88-3	Toluene	8.41	2.18	0.91	0.6	0.4	0.3									
57		98-83-9	2-Phenylpropene		0.13						0.2							
58		95-13-6	Indene															
59	Esters	108-21-4	Acetic acid, 1-methylethyl est															
60		111-15-9	Acetic acid, 2-ethoxyethyl est															
61		123-86-4	Acetic acid, butyl ester															
62		141-78-6	Acetic acid, ethyl ester															
63		80-62-6	Methyl methacrylate															
64		103-09-3	2-Ethylhexyl acetate															
65		96-48-0	Butyrolactone															
66		25265-77-4	Texanol															
67		6846-50-0	TXIB															

Table A. 80 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 24 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol															
69		110-49-6	2-Methoxyethylacetate															
70		111-90-0	Diethylene glycol monoethyl e															
71		107-98-2	Propanol, 1-methoxy-2-															
72		111-76-2	Ethanol, 2-butoxy-															
73		112-34-5	Ethanol, 2-butoxyethoxy-															
74		110-80-5	Ethanol, 2-ethoxy-															
75		109-86-4	Ethanol, 2-methoxy-															
76		75-65-0	Propanol, 2-methyl-2-															
77		5131-66-8	Proylene glycol monobutyl et															
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane															
79		95-50-1	1,2-Dichlorobenzene															
80		107-06-2	1,2-Dichloroethane															
81		78-87-5	1,2-Dichloropropane															
82		106-46-7	1,4-Dichlorobenzene															
83		75-27-4	Bromodichloromethane															
84		56-23-5	Carbon tetrachloride															
85		67-66-3	Chloroform															
86		124-48-1	Dibromochloromethane															
87		75-09-2	Dichloromethane															
88		127-18-4	Tetrachloroethylene															
89		79-01-6	Trichloroethylene															
90		79-34-5	1,1,2,2-Tetrachloroethane															
91	Cyclo Alkanes	108-87-2	Methylcyclohexane															
92		110-82-7	Cyclohexane															
93		1678-93-9	Cyclohexane, butyl-															
94		1678-91-7	Cyclohexane, ethyl-															
95		1678-92-8	Cyclohexane, propyl-															
96		91-17-8	Decahydronaphthalene															
97	Terpenes	80-56-8	alpha-Pinene															
98		99-86-5	alpha-Terpinene															
99		127-91-3	beta-Pinene															
100		99-85-4	gamma-Terpinene															
101		13466-78-9	3-Carene															
102		79-92-5	Camphene															
103		5989-27-5	Limonene				0.29						0.54					
104	Acids	64-19-7	Acetic acid															
105		79-31-2	Isobutyric acid															
106		107-92-6	Butyric acid															
107		111-14-8	Heptanoic acid															
108		149-57-5	2-Ethylhexanoic acid															
109		142-62-1	Hexanoic acid															
110		109-52-4	Pentanoic Acid															
111	Other	3777-69-3	Furan, 2-pentyl															
112		872-50-4	2-Pyrrolidinone, 1-methyl-															
113		123-91-1	1,4-Dioxane															
114		78-40-0	Triethyl phosphate															
115		142-96-1	n-Butyl ether															
116		96-29-7	2-Butanone oxime															
117		121-44-8	Triethylamine															
118		75-21-8	Ethylene oxide															
119		75-56-9	Propylene oxide															
120		106-99-0	1,3-Butadiene															
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	24.8 h	48.8 h	73.3 h	97.3 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	24.8 h	48.8 h	73.3 h	97.3 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	1.4	1.0		2.4	1.8	0.5				2.0	0.8				

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 81: Micro-scale chamber concentration and emission factor for PT9_m (acrylic interior paint; zero VOC)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		16.27			2.76					47.86			8.12						
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		5.20	3.28							15.31	9.64								
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		1.91	1.75	1.61						5.62	5.14	4.73							
6		108-95-2	Phenol	5.84	4.73	7.41	7.44	3.63			2.44			4.62	4.71							
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.98	0.60							2.87	1.75								
8		67-64-1	Acetone	1.00	70.44	39.08	14.21	1.29	1.69	0.86	0.58		204.32	112.04	38.86	0.86	2.04			648.15	1.71	0.86
9		98-86-2	Acetophenone	1.77	1.97	2.93	1.41	0.69	1.28	0.44	0.29		0.59	3.40								
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.94	12.85	8.74	6.07	2.26	1.16	1.23	1.03		35.05	22.95	15.10	3.88	0.64	0.84	0.26	123.05	1.26	0.95
13		123-72-8	Butanal		7.65	5.62	4.43						22.50	16.53	13.03							
14		112-31-2	Decanal	8.19																		
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal		31.42	28.48	24.25	9.16					92.45	83.80	71.35	26.94				171.73	0.57	0.96
19		124-19-6	Nonanal	2.36																		
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		5.36	5.19	3.72						15.77	15.27	10.95							
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-		5.79	4.72	3.68	1.26					17.05	13.89	10.84	3.70				31.02	0.66	0.98
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		0.60		0.68	0.12					1.77		2.00	0.37						
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane	0.91	36.83								105.68									
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane																			
35		629-62-9	Pentadecane	1.14																		
36		629-59-4	Tetradecane	0.64						0.30												
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane				0.82								2.43							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetrame																			
40		611-14-3	Toluene, 2-ethyl-		0.73	0.64	0.52	0.16					2.1	1.9	1.5	0.5				4.5	0.7	1.0
41		620-14-4	Toluene, 3-ethyl-		3.90	2.65	1.96	0.52	0.2				11.5	7.8	5.8	1.5	0.5			28.1	1.0	1.0
42		622-96-8	Toluene, 4-ethyl-		3.61	3.47	2.31	0.56	0.2				10.6	10.2	6.8	1.6	0.5			40.0	1.1	1.0
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.64	1.29	1.07	0.32					4.8	3.8	3.2	0.9				9.2	0.7	1.0
47		95-47-6	Benzene, 1,2-dimethyl-		0.68	0.51	0.41						2.0	1.5	1.2							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.21								0.6									
49		108-38-3	Benzene, 1,3-dimethyl-		5.81	4.11	2.68	0.55	0.2				17.1	12.1	7.9	1.6	0.5			50.2	1.1	1.0
50		98-82-8	Benzene, isopropyl		8.95	7.10	5.13	1.53	0.6	0.3	0.3		26.3	20.9	15.1	4.5	1.7	1.0	0.8	75.8	1.0	1.0
51		103-65-1	Benzene, propyl-		8.79	6.83	4.90	1.12	0.4	0.2	0.2		25.9	20.1	14.4	3.3	1.3	0.7	0.6	82.3	1.1	1.0
52		100-41-4	Ethylbenzene		2.30	1.56	0.97	0.21	0.1				6.8	4.6	2.9	0.6	0.2			16.7	1.1	1.0
53		91-20-3	Naphthalene		0.47	0.39	3.02	0.63		0.5	0.4		1.4	1.1	8.9	1.9		1.5	1.1	273.6	2.0	0.9
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.34	7.53	5.30	3.67	0.79	0.4	0.3	0.2		21.2	14.6	9.8	1.3	0.3	0.0		273.5	2.0	0.9
56		108-88-3	Toluene	0.36	2.14	1.70	0.95	0.32	0.3	0.4	0.2		5.2	4.0	1.7			0.2		3.9	0.2	0.2
57		98-83-9	2-Phenylpropene	0.68																		
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethy																			
60		111-15-9	Acetic acid, 2-ethoxyethy																			
61		123-86-4	Acetic acid, butyl ester		18.96	13.20	9.65	2.13	1.2	1.0			55.8	38.9	28.4	6.3	3.5	2.9		113.1	0.9	1.0
62		141-78-6	Acetic acid, ethyl ester		4.52	2.55	1.03						13.3	7.5	3.0							
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		11.16	11.39		5.19					32.8	33.5		15.3						
67		6846-50-0	TXIB	152.24	2.01		5.41			0.5	0.5											

Table A. 81 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-		3.04								8.9									
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		16.63	13.54	11.32	3.58	1.9	1.7	2.0		48.9	39.8	33.3	10.5	5.6	5.1	5.8	88.2	0.7	1.0
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	1.71	12.32	10.43	2.95	2.51	1.90	2.30	1.60		31.24	25.67	3.65	2.37	0.57	1.75		36.28	0.88	0.74
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		1.24	0.99							3.66	2.90								
104	Acids	64-19-7	Acetic acid		1239.93	329.87	63.23						3648.50	970.64	186.05							
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane		3.15	3.00	2.94						9.28	8.84	8.65							
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		165.72	122.62	92.81	32.24	12.50	8.07	4.88		487.63	360.82	273.08	94.88	36.78	23.75	14.36	1275.48	0.93	0.97
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.7 h	25.2 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.7 h	25.2 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		4.3	2.1	2.5	0.4	0.4	0.2			12.6	6.3	7.5	1.2	1.1	0.7		23.03	0.81	0.92

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 82: Micro-scale chamber concentration and emission factor for PT10_m (latex interior paint)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		21.65	15.90	14.45	5.18					65.82	48.33	43.92	15.75				101.81	0.57	0.94
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		30.99	12.53	8.64	2.09	4.06				94.20	38.08	26.28	6.34	12.33			62.56	0.53	0.71
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		11.88	7.33	6.84	0.82					36.11	22.28	20.81	2.49				101.73	1.12	0.91
6		108-95-2	Phenol		22.64	7.19	7.09	3.39			2.33		68.84	21.87	21.54	10.31			7.09	37.02	0.39	0.90
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.57	0.40							1.72	1.20								
8		67-64-1	Acetone		182.15	63.33	23.05	1.63	1.32	1.51	0.34		553.73	192.53	70.08	4.96	4.01	4.58	1.03	758.67	1.37	0.94
9		98-86-2	Acetophenone		3.38	2.43	1.83	1.09	1.04	0.45	0.32		10.28	7.40	5.56	3.32	3.16	1.38	0.98	14.71	0.52	0.87
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.90	16.22	8.55	6.07	1.68	1.61	1.06	0.87		46.58	23.27	15.73	2.36	2.15	0.49		97.71	1.13	0.94
13		123-72-8	Butanal		10.07	6.84	4.40						30.62	20.78	13.37							
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal		40.52	30.60	32.43	10.83					123.18	93.03	98.59	32.94				200.80	0.54	0.86
19		124-19-6	Nonanal			2.39								7.27								
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		6.27	4.55	4.01						19.05	13.82	12.19							
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-		14.26	8.38	7.16	2.69					43.36	25.46	21.78	8.18				52.44	0.57	0.96
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		1.07	0.68							3.26	2.06								
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		0.99								3.01									
33		111-84-2	Nonane																			
34		111-65-9	Octane																			
35		629-62-9	Pentadecane			0.64		0.23						1.95		0.69						
36		629-59-4	Tetradecane		0.81	0.57							2.46	1.72								
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet																			
40		611-14-3	Toluene, 2-ethyl-		0.24	0.13							0.74	0.40								
41		620-14-4	Toluene, 3-ethyl-		1.68	0.85							5.11	2.58								
42		622-96-8	Toluene, 4-ethyl-		0.93	0.62							2.83	1.89								
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-		6.01	3.73	2.17	0.36					18.27	11.34	6.60	1.09				44.62	1.15	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.10	0.08							0.31	0.23								
49		108-38-3	Benzene, 1,3-dimethyl-		19.34	11.04	6.35	0.69	0.23	0.14			58.81	33.56	19.31	2.09	0.69	0.42		198.30	1.44	0.99
50		98-82-8	Benzene, isopropyl		14.92	9.41	5.92	1.17	0.31	0.19			45.35	28.62	17.99	3.55	0.95	0.58		144.60	1.26	0.98
51		103-65-1	Benzene, propyl-		14.03	8.55	5.37	0.90	0.22				42.66	26.01	16.33	2.73	0.66			100.36	1.12	0.98
52		100-41-4	Ethylbenzene		8.42	4.60	2.52	0.27	0.09				25.59	13.97	7.66	0.81	0.28			76.25	1.41	0.98
53		91-20-3	Naphthalene				0.55	0.19		0.21					1.66	0.59		0.63		2.95	0.40	0.76
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.15	29.77	16.58	9.90	1.14	0.39	0.27	0.15		90.01	49.92	29.62	2.99	0.72	0.35		396.53	1.61	0.99
56		108-88-3	Toluene		3.42	2.00	1.50	0.66	0.61	0.52			10.40	6.07	4.55	2.00	1.85	1.58		9.58	0.44	0.97
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		0.81	0.50							2.45	1.52								
59	Esters	108-21-4	Acetic acid, 1-methylethy																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		18.05	11.25	8.42	2.30	0.69				54.87	34.19	25.60	6.98	2.10			125.65	0.99	0.96
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		3.15								9.58									
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		132.02	98.72	86.82	44.80	18.66	17.01	11.98		401.34	300.09	263.94	136.19	56.71	51.71	36.43	723.01	0.62	0.95
67		6846-50-0	TXIB		1.27	1.72		0.84	2.96		0.78		3.86	5.22		2.55	9.00		2.36	5.77	0.11	0.06

Table A. 82 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-		8.04	4.80	3.31	1.25					24.43	14.58	10.06	3.79				31.04	0.66	1.00
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		39.68	26.99	21.84	8.15	2.82	3.49	3.68		120.61	82.04	66.40	24.76	8.58	10.60	11.18	188.66	0.68	0.93
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	2.2	11.7	7.9	3.4	7.8	6.6	7.2	2.0		28.8	17.1	3.6	16.8	13.2	15.1				
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		3.2	2.1							9.8	6.4								
104	Acids	64-19-7	Acetic acid		3541.0	1038.7	426.1	81.4					10764.4	3157.7	1295.3	247.6				11883.8	1.2	1.0
105		79-31-2	Isobutyric acid					1.0								3.0						
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane			1.8	3.1							5.5	9.5							
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		426.8	230.4	150.2	40.2	13.8	7.7	3.7		1297.5	700.3	456.7	122.3	41.8	23.5	11.1	3302.5	1.2	1.0
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.7 h	25.2 h	51.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.7 h	25.2 h	51.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		2.5	3.1	1.6	0.5	0.4	0.4	0.2		7.6	9.5	4.9	1.7	1.2	1.1	0.6	22.34	0.75	0.97

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 83: Micro-scale chamber concentration and emission factor for PT11_m (acrylic interior paint; low odor)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		55.35	41.25	23.99	7.61	4.77	3.82	1.31		159.86	119.12	69.29	21.97	13.79	11.04	3.78	337.80	0.88	0.95
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		1.64	1.77	1.01						4.74	5.10	2.91							
6		108-95-2	Phenol	2.66	21.50	8.22	6.68	4.37		2.10			54.41	16.06	11.62	4.95				31.04	0.57	1.00
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.49	0.37							1.43	1.06								
8		67-64-1	Acetone	1.50	263.80	102.34	29.09	3.47	1.95	1.55	0.99		757.53	291.22	79.67	5.67	1.28	0.13		4411.41	2.25	0.97
9		98-86-2	Acetophenone	1.55	3.31	2.73	2.10	1.50	1.25	0.68	0.35		5.07	3.39	1.59							
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.18	5.45	5.09	2.85	1.61	1.11	0.82	0.71		12.34	11.29	4.84	1.26				33.78	1.04	1.00
13		123-72-8	Butanal		10.98	7.26	3.12						31.70	20.97	9.00							
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal		40.59	31.41	26.28	8.56					117.24	90.70	75.91	24.73				207.04	0.65	0.96
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		6.24	5.01	3.83						18.02	14.48	11.06							
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-		2.48		1.50						7.16		4.34							
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		1.52	0.87	0.43						4.40	2.52	1.26							
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane		0.85	1.16		0.90					2.46	3.36		2.60						
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane		1.15								3.31									
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane		5.02	3.34	2.17	0.94		0.38	0.32		14.51	9.64	6.28	2.71		1.11	0.92	21.25	0.68	1.00
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetrame																			
40		611-14-3	Toluene, 2-ethyl-		0.28	0.21							0.80	0.62								
41		620-14-4	Toluene, 3-ethyl-		1.84	1.34	0.81						5.31	3.87	2.34							
42		622-96-8	Toluene, 4-ethyl-		1.38	0.89	0.49						4.00	2.58	1.43							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.40								1.14									
47		95-47-6	Benzene, 1,2-dimethyl-		1.21	0.97	0.45						3.49	2.80	1.31							
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.40	0.27	0.18						1.14	0.78	0.51							
49		108-38-3	Benzene, 1,3-dimethyl-		11.77	7.74	3.77	0.61	0.19	0.13	0.15		33.99	22.36	10.90	1.77	0.55	0.39	0.44	89.09	1.24	0.98
50		98-82-8	Benzene, isopropyl		15.64	11.24	6.98	1.33	0.42	0.26	0.16		45.16	32.47	20.17	3.85	1.22	0.74	0.48	159.88	1.25	0.99
51		103-65-1	Benzene, propyl-		11.84	8.63	5.22	0.92	0.27	0.16			34.19	24.91	15.07	2.66	0.78	0.48		125.37	1.28	0.99
52		100-41-4	Ethylbenzene		3.07	1.90	0.97	0.17					8.86	5.49	2.80	0.49				21.29	1.18	1.00
53		91-20-3	Naphthalene		0.75	0.48	0.45	0.23			0.11		2.17	1.38	1.30	0.65			0.32	2.54	0.44	0.98
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.57	4.25	3.20	1.80	0.48	0.24	0.24			10.63	7.59	3.54							
56		108-88-3	Toluene	0.42	21.36	10.26	3.75	1.05	0.37	0.33	0.31		60.48	28.42	9.62	1.80				111.68	1.31	1.00
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethy																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		12.03	8.71	6.50	1.48	0.89				34.74	25.16	18.78	4.28	2.56			74.15	0.87	0.98
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate		14.96	8.59	3.91						43.20	24.80	11.28							
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB					3.34								9.65						

Table A. 83 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		7.14	6.23	4.47	1.65	0.73	0.69	0.55		20.63	17.99	12.91	4.77	2.10	2.01	1.58	43.74	0.73	0.99
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	2.03	14.18	13.27	2.92	5.82	2.23	2.37	3.65		35.10	32.46	2.58	10.95	0.58	0.97	4.67	28.50	0.66	0.37
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		4.49	3.38	2.19	0.54					12.97	9.75	6.34	1.57				28.19	0.90	0.99
104	Acids	64-19-7	Acetic acid		46.72								134.93									
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane				2.48								7.16							
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		305.65	207.34	131.87	35.47	13.40	6.62	3.27		882.75	598.82	380.86	102.43	38.71	19.12	9.45	2785.42	1.16	0.97
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.7 h	6.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.1 h	3.7 h	6.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein		2.5	1.8	0.9	0.2	0.1	0.2			7.3	5.2	2.5	0.6	0.4	0.4		14.35	0.90	0.95

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 84: Micro-scale chamber concentration and emission factor for PT12_m (acrylic latex interior paint; low VOC)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		53.35	67.06	21.33	7.87	6.25				102.95	129.41	41.16	15.18	12.05			250.26	0.83	0.94
2		71-23-8	1-Propanol			17.18								33.16								
3		104-76-7	Hexanol, 2-ethyl-1-		11.28	8.84	8.74						21.76	17.06	16.87							
4		67-63-0	2-Propanol		18.44	9.90	6.83	1.48	0.75	0.80			35.58	19.10	13.18	2.86	1.45	1.55		54.61	0.89	0.98
5		64-17-5	Ethanol		81.01	27.55	13.00		0.50				156.32	53.17	25.08		0.97			309.26	1.48	1.00
6		108-95-2	Phenol	3.53	21.26	27.57	15.87	8.88	197.82	11.22	7.46	0.00	34.21	46.38	23.81	10.32	374.92	14.83	7.57	45.74	0.16	0.02
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		0.86	0.59			0.37	0.24			1.66	1.14			0.71	0.47		1.53	0.24	0.88
8		67-64-1	Acetone	0.36	40.37	55.29	6.85	4.39	3.69	5.68	1.72	0.00	77.22	106.00	12.54	7.78	6.43	10.28	2.64	114.47	0.75	0.71
9		98-86-2	Acetophenone	0.44	3.32	5.31	3.74	2.86	24.92	2.12	0.85	0.00	5.56	9.41	6.37	4.67	47.25	3.26	0.80	15.21	0.31	0.11
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.05	9.95	10.16	6.78	3.40	15.19	2.99	1.59	0.00	17.17	17.57	11.05	4.54	27.29	3.74	1.03	32.85	0.51	0.35
13		123-72-8	Butanal		16.39	21.79							31.62	42.05								
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural						1.30								2.50					
17		111-71-7	Heptanal		9.05	4.19		1.60					17.47	8.08		3.10						
18		66-25-1	Hexanal		63.20	55.95							121.97	107.98								
19		124-19-6	Nonanal		5.81	4.57	3.00			2.42	2.54		11.21	8.82	5.79			4.67	4.90	9.00	0.15	0.78
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal		3.51								6.78									
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		8.66	7.10	3.85						16.71	13.69	7.43							
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		13.68	8.31	3.41	0.62	0.92	0.49			26.39	16.03	6.57	1.19	1.78	0.94		33.03	0.85	0.90
29		112-40-3	Dodecane						0.38								0.74					
30		142-82-5	Heptane						2.19								4.23					
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane						2.92								5.63					
33		111-84-2	Nonane		7.19	3.02	1.64		1.59				13.87	5.83	3.17		3.06			5.81	0.18	0.53
34		111-65-9	Octane						2.23								4.30					
35		629-62-9	Pentadecane							0.71	0.57							1.37	1.10			
36		629-59-4	Tetradecane	0.21		1.06	0.87		1.07	0.96	1.01	0.00		1.64	1.28		1.66	1.44	1.54			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		3.18	2.18	1.26		0.35				6.14	4.21	2.43		0.68			8.34	0.65	1.00
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-		0.33								0.63									
42		622-96-8	Toluene, 4-ethyl-		0.14								0.28									
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene						175.58								338.82					
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.25								0.48									
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-		1.15	0.49	0.28		0.22	0.36			2.22	0.95	0.55		0.43	0.69		0.86	0.12	0.28
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.21								0.40									
49		108-38-3	Benzene, 1,3-dimethyl-	0.21	4.17	1.53	0.97	0.99	0.60	1.34	0.28	0.00	7.64	2.55	1.47	1.50	0.75	2.19	0.13	4.59	0.48	0.36
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-		0.31				0.24				0.60				0.47					
52		100-41-4	Ethylbenzene		1.15	0.41	0.36	0.31	0.43	0.44			2.22	0.79	0.70	0.60	0.82	0.84				
53		91-20-3	Naphthalene						2.53								4.88					
54		99-87-6	p-Cymene		34.49	22.26	9.86	1.49	0.65	0.41	0.25		66.56	42.95	19.03	2.87	1.25	0.78	0.49	186.15	1.29	1.00
55		100-42-5	Styrene		1.42	1.06	0.73	0.51	7.51	0.37	0.24		2.73	2.05	1.41	0.99	14.49	0.71	0.47	2.43	0.14	0.03
56		108-88-3	Toluene	0.18	2.11	1.65	1.28	1.13	5.54	2.17	0.50	0.00	3.74	2.85	2.12	1.84	10.35	3.85	0.62	3.00	0.05	0.01
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		2.77				0.26				5.35				0.51					
63		80-62-6	Methyl methacrylate						0.81								1.56					
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		74990.3	46035.4	21605.5	6863.21	4947.90	3990.70	2794.94		144714	88837.5	41693.5	13244.4	9548.3	7701.1	5393.6	1.8E+05	0.77	0.99
67		6846-50-0	TXIB		74.91	48.16	19.65	7.79	9.62	10.41	7.86		144.55	92.94	37.91	15.03	18.55	20.08	15.17	106.84	0.45	0.79

Table A. 84 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		62768	25676	11918	3413.8	2761.0	1958.1	1589.0		121128	49547.7	22999.2	6587.9	5328.0	3778.6	3066.4	1.0E+05	0.78	0.98
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		35.5	26.7	6.7						68.44	51.56	13.01							
73		112-34-5	Ethanol, 2-butoxyethoxy-		11504	6612.9	3085.8	308.3	203.6	87.0	46.9		22200	12761.3	5954.94	595.03	392.94	167.94	90.45	65837.9	1.41	0.99
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		30.5	16.3	12.1	4.7	3.7	0.8			58.95	31.43	23.34	9.14	7.23	1.60		93.18	0.80	0.86
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene						0.3								0.59					
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	1.1	3.4	4.7	5.9	6.3	13.3	21.4	1.5	0.00	4.38	6.98	9.31	10.01	23.64	39.26	0.81	10.66	0.06	0.00
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		2.2								4.22									
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		2.5								4.91									
104	Acids	64-19-7	Acetic acid		460.2	113.3	74.8		121.9	20.5	13.9		888.10	218.57	144.36		235.14	39.65	26.87	387.81	0.45	0.48
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid		9.5								18.37									
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		7.6								14.61									
112		872-50-4	2-Pyrrolidinone, 1-methyl-		16.3	16.3	10.5						31.47	31.43	20.22							
113		123-91-1	1,4-Dioxane			23.8			3.2					46.02			6.13					
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		156.1	111.4	62.3	9.3	1.6				301.23	214.98	120.27	17.90	3.16			1463.56	1.50	0.97
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide					7.7	2.4	5.2	2.7					14.88	4.63	10.10	5.20	76.14	0.57	0.39
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		20.3	38.1	12.2	27.0	9.3	6.8	5.7		39.3	73.4	23.6	52.2	18.0	13.2	11.0	105.24	0.45	0.63

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 85: Micro-scale chamber concentration and emission factor for WF1_m (wood finish; oil-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol		2.7				2.2	2.4	2.2		5.2				4.3	4.7	4.2	4.6	0.01	0.01
5		64-17-5	Ethanol		12.9				7.4	7.1	6.0		25.1				14.3	13.8	11.7	43.2	0.28	0.82
6		108-95-2	Phenol	16.3								0.0										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		9.3				1.7	1.0	0.8		18.1				3.2	1.9	1.5	242.5	1.12	0.99
8		67-64-1	Acetone	1.0	16.9				15.2	11.7	7.5	0.0	30.9				27.7	20.8	12.6	2098.0	1.11	0.94
9		98-86-2	Acetophenone	1.3					1.9	1.7	1.7	0.0					1.2	0.8	0.8	11.2	0.58	0.86
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.9								0.0										
13		123-72-8	Butanal						3.2	2.5	2.4						6.3	4.8	4.7	34.0	0.44	0.88
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal						592.8	374.0	255.6						1154.4	728.3	497.7	1.3E+05	1.21	1.00
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		6.8				15.5	11.0	8.5		13.3				30.3	21.5	16.6	861.4	0.86	1.00
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		64481.3	47930.5	27110.9	5514.7	1616.7	831.7	489.3		125568	93337.9	52794.7	10739.1	3148.2	1619.6	952.8	5.1E+05	1.33	0.99
29		112-40-3	Dodecane		2579.2	2091.9	1248.1	503.9	68.6	31.6	19.5		5022.7	4073.6	2430.5	981.3	133.6	61.6	37.9	27193.0	1.36	0.93
30		142-82-5	Heptane		3.2				1.8	1.2			6.2				3.5	2.4				
31		544-76-3	Hexadecane		4.5				3.5	2.5	1.5		8.9				6.9	4.9	3.0	712.4	1.19	0.96
32		110-54-3	Hexane																			
33		111-84-2	Nonane		37660.0	18105.0	9647.9	1846.2	709.7	328.8	174.3		73337.6	35256.9	18788.0	3595.2	1382.0	640.3	339.4	1.8E+05	1.31	0.99
34		111-65-9	Octane		363.9	196.2	103.8		8.1	3.9	2.2		708.7	382.0	202.2		15.7	7.5	4.3	22108.9	1.87	1.00
35		629-62-9	Pentadecane	0.2	12.4				4.2	2.7	1.6	0.0	23.8				7.7	4.9	2.8	2241.8	1.45	0.97
36		629-59-4	Tetradecane	0.5	16.1				3.9	2.1	1.2	0.0	30.3				6.6	3.2	1.3	51553.5	2.30	0.98
37		629-50-5	Tridecane		68.2		57.4		4.3	2.3	1.5		132.8		111.7		8.4	4.5	2.9	2855.0	1.51	1.00
38		1120-21-4	Undecane	0.1	17526.6	13734.2	7045.1	2610.9	261.9	142.2	83.1	0.0	34130.4	26745.2	13719.1	5084.1	509.7	276.6	161.6	2.0E+05	1.49	0.94
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		35.5	28.7	16.8		1.0	0.6	0.4		69.1	56.0	32.7		1.9	1.1	0.7	509.4	1.4	1.0
40		611-14-3	Toluene, 2-ethyl-		1188.7	649.1	393.7	56.3	25.1	12.2	6.9		2314.8	1264.1	766.6	109.7	48.9	23.8	13.4	6654.4	1.3	1.0
41		620-14-4	Toluene, 3-ethyl-		2821.1	1771.9	1036.4	148.1	59.5	28.4	15.4		5493.7	3450.5	2018.2	288.4	115.9	55.3	29.9	19535.2	1.4	1.0
42		622-96-8	Toluene, 4-ethyl-		1654.0	726.1	365.2	57.4	31.7	13.0	7.8		3220.9	1414.0	711.1	111.7	61.6	25.3	15.2	6557.8	1.3	1.0
43		31017-40-0	Cyclohexene, 4-phenyl		5.3								10.2									
44		71-43-2	Benzene				199.4		0.0						388.3		0.0					
45		526-73-8	Benzene, 1,2,3-trimethyl-		952.3	597.3	345.3	55.2	19.4	9.7	5.6		1854.5	1163.2	672.3	107.5	37.8	19.0	11.0	6467.3	1.4	1.0
46		95-63-6	Benzene, 1,2,4-trimethyl-		5397.6	2943.2	1703.8	266.9	104.0	49.8	28.2		10511.1	5731.4	3318.0	519.7	202.5	97.0	55.0	31258.2	1.3	1.0
47		95-47-6	Benzene, 1,2-dimethyl-		531.6	273.7	147.8	23.7	10.3	4.6	2.2		1035.2	533.0	287.8	46.2	20.1	8.9	4.4	2895.0	1.4	1.0
48		108-67-8	Benzene, 1,3,5-trimethyl-		1552.2	812.6	476.1	73.1	30.8	15.0	8.6		3022.7	1582.3	927.1	142.3	60.0	29.2	16.8	8246.3	1.3	1.0
49		108-38-3	Benzene, 1,3-dimethyl-	0.1	939.5	519.6	282.7	38.4	18.4	6.7	3.2	0.0	1829.4	1011.7	550.2	74.6	35.5	12.7	6.0	6280.6	1.4	1.0
50		98-82-8	Benzene, isopropyl		185.9	85.9	43.9	6.8	4.3	1.9	1.1		361.9	167.2	85.6	13.2	8.3	3.6	2.1	712.2	1.2	1.0
51		103-65-1	Benzene, propyl-		1128.1	504.7	283.1	47.8	23.3	10.7	5.6		2196.8	982.8	551.3	93.2	45.3	20.8	11.0	4760.8	1.3	1.0
52		100-41-4	Ethylbenzene	0.1	190.1	113.7	55.3	9.8	3.8	1.6	0.9	0.0	370.1	221.2	107.5	19.0	7.3	3.1	1.6	1214.4	1.4	1.0
53		91-20-3	Naphthalene		804.6	451.4	232.3	52.1	16.7	8.3	4.8		1566.9	879.0	452.3	101.5	32.6	16.2	9.3	4421.2	1.3	1.0
54		99-87-6	p-Cymene		189.5								369.1									
55		100-42-5	Styrene	0.2								0.0										
56		108-88-3	Toluene	0.3	816.4	1163.2	498.3	65.1	16.5	4.2	3.3	0.0	1589.1	2264.4	969.8	126.1	31.5	7.5	5.8	20650.0	1.8	1.0
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		154.2	70.5	34.0		2.3	1.0			300.3	137.3	66.3		4.5	1.9		643.8	1.3	1.0
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 85 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		5.20				38.39				10.13				74.75					
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		21.72								42.29									
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		19223.6	7603.6	4622.1	659.4	319.9	173.7	110.4		37435.2	14806.9	9000.9	1284.1	622.9	338.3	215.0	68183.5	1.24	0.99
94		1678-91-7	Cyclohexane, ethyl-		299.6	153.9	83.1		7.6	3.5	1.9		583.4	299.7	161.9		14.8	6.9	3.6	38775.6	2.03	1.00
95		1678-92-8	Cyclohexane, propyl-		22776.3	8519.3	4187.9	779.2	428.7	209.5	121.4		44353.7	16590.1	8155.4	1517.3	834.8	408.1	236.4	66461.3	1.19	0.99
96		91-17-8	Decahydronaphthalene		8223.8	3639.2	1921.5	265.4	171.0	88.3	56.0		16014.7	7086.9	3741.9	516.9	333.0	171.9	109.1	28194.6	1.20	0.99
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid								9.17								17.86			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid		3329.39	3737.65	1743.94		50.38	19.86	9.70		6483.53	7278.55	3396.08		98.11	38.67	18.88	9.6E+05	2.37	1.00
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime		23.03								44.85									
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.3 h	72.6 h	96.6 h	0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.3 h	72.6 h	96.6 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.4	79.8	43.2	35.7	241.6	123.1	66.3	48.1		152.7	81.3	66.7	467.7	236.9	126.2	90.9			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 86: Micro-scale chamber concentration and emission factor for WF2_m (wood finish; water-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		1856.29	322.09	103.77	20.10	12.72	11.03	7.76		3531.40	612.73	197.40	38.24	24.19	20.99	14.77	1475.44	1.04	0.97
2		71-23-8	1-Propanol		4.81								9.15									
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol		19.80	8.20	3.88	2.44	1.75		1.35		37.66	15.60	7.38	4.63	3.34		2.57	21.98	0.48	0.96
5		64-17-5	Ethanol		42.50	32.71	17.12	8.60	5.14	2.61	3.02		80.85	62.23	32.57	16.36	9.77	4.97	5.75	129.35	0.70	0.97
6		108-95-2	Phenol	8.36	8.95	19.38	16.96	14.20	7.86	7.95	8.54	0.00	1.12	20.97	16.36	11.10			0.35	28.77	0.30	1.00
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		4.14	2.77	1.74	1.19	0.69	0.47	0.47		7.87	5.28	3.30	2.26	1.31	0.89	0.90	9.19	0.51	0.97
8		67-64-1	Acetone	0.62	712.81	201.48	65.62	22.09	9.25	5.62	5.74	0.00	1354.88	382.11	123.67	40.84	16.42	9.52	9.74	1042.85	1.06	0.99
9		98-86-2	Acetophenone	0.69	3.69	4.69	2.92	4.32	3.98	1.33	1.46	0.00	5.73	7.62	4.24	6.91	6.27	1.22	1.47	12.46	0.39	0.45
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		3.58		6.60	3.54					6.82		12.56	6.74						
12		100-52-7	Benzaldehyde	1.68	7.39	7.23	4.14	5.25	2.82	1.93	2.09	0.00	10.86	10.55	4.68	6.79	2.15	0.46	0.77	27.02	0.76	0.73
13		123-72-8	Butanal		54.10	24.15	13.43		3.67	2.41	2.38		102.92	45.95	25.54		6.99	4.58	4.52	91.58	0.68	0.99
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural		50.80	36.35	19.03	7.12	6.28	5.12	4.04		96.63	69.14	36.20	13.54	11.94	9.74	7.69	115.72	0.60	0.97
17		111-71-7	Heptanal			5.81								11.05								
18		66-25-1	Hexanal		599.09	715.50	528.66	241.15	188.33	135.00	113.27		1139.71	1361.16	1005.72	458.75	358.28	256.83	215.49	2510.13	0.53	0.99
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal		8.32	7.50			1.29				15.83	14.27			2.46					
23		110-62-3	Pentanal		27.65	29.35	20.06	8.56	6.42	4.47	3.37		52.61	55.83	38.17	16.28	12.22	8.50	6.41	111.56	0.60	0.99
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane			39.84	8.24							75.79	15.67							
29		112-40-3	Dodecane		11.95	15.28	3.29						22.74	29.07	6.26							
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane	0.92	12.06	20.97	14.60	4.32			1.50	0.00	21.19	38.15	26.03	6.47			1.11	143.70	1.03	0.99
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane		2.58								4.91									
35		629-62-9	Pentadecane	11.48	2.72	3.81	2.44			0.63		0.00										
36		629-59-4	Tetradecane	58.79	19.18	26.40	10.94	1.92	1.35	1.17	1.01	0.00										
37		629-50-5	Tridecane	0.73								0.00										
38		1120-21-4	Undecane		7.66	8.04	1.60						14.56	15.29	3.03							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet																			
40		611-14-3	Toluene, 2-ethyl-		4.36	2.55	0.61						8.3	4.9	1.2							
41		620-14-4	Toluene, 3-ethyl-		13.00	7.65	1.39						24.7	14.6	2.7							
42		622-96-8	Toluene, 4-ethyl-		7.23	4.74	0.85						13.7	9.0	1.6							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene						0.4		0.5						0.8		1.0			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-		16.87	10.57	2.16		0.2				32.1	20.1	4.1		0.3			72.6	1.4	1.0
47		95-47-6	Benzene, 1,2-dimethyl-		18.12	8.62	1.84	0.45	0.3				34.5	16.4	3.5	0.9	0.5			44.9	1.2	1.0
48		108-67-8	Benzene, 1,3,5-trimethyl-		5.36	3.16	0.71						10.2	6.0	1.3							
49		108-38-3	Benzene, 1,3-dimethyl-	0.35	90.58	41.44	8.06	1.56	1.2	0.5	0.6	0.0	171.7	78.2	14.7	2.3	1.6	0.4	0.5	276.4	1.4	1.0
50		98-82-8	Benzene, isopropyl		1.59	0.92							3.0	1.8								
51		103-65-1	Benzene, propyl-		6.96	4.46	0.84						13.2	8.5	1.6							
52		100-41-4	Ethylbenzene	0.14	38.16	16.84	3.15	0.61	0.4	0.2	0.2	0.0	72.3	31.8	5.7	0.9	0.5	0.1	0.1	135.7	1.6	1.0
53		91-20-3	Naphthalene	1.16	0.93	1.00	0.50	0.39				0.0										
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.25		2.35	0.93	1.06	0.4	0.3	0.5	0.0		4.0	1.3	1.6	0.2	0.0	0.5	9.7	0.9	0.6
56		108-88-3	Toluene	0.57	146.18	52.19	10.44	2.62	1.4	0.9	1.1	0.0	277.0	98.2	18.8	3.9	1.7	0.6	1.1	300.6	1.3	1.0
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl							32.3								61.5				
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester						0.3								0.6					
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol			41.69	43.31	13.85	6.4	5.2	5.9			79.3	82.4	26.3	12.2	9.9	11.1	208.2	0.7	1.0
67		6846-50-0	TXIB	6.13		1.88			1.4	1.5	1.4	0.0										

Table A. 86 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		733.2	21071.0	9594.3	1200.3	602.1	359.2	248.6		1394.8	40085.3	18252.2	2283.4	1145.4	683.2	472.9	168707	1.3	1.0
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-			64.9	10.7	2.2						123.4	20.3	4.1				514.7	1.6	0.9
72		111-76-2	Ethanol, 2-butoxy-		71.7	55.2	10.6						136.4	105.0	20.1							
73		112-34-5	Ethanol, 2-butoxyethoxy-			50.9	41.3	10.0	5.7	4.0				96.8	78.5	19.1	10.9	7.7		285.2	0.8	1.0
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		766.8	97.4	31.9	4.5	1.9	0.6	0.6		1458.8	185.3	60.6	8.5	3.6	1.2	1.2	922.7	1.5	1.0
77		5131-66-8	Proylene glycol monobuty		547.2	202.5	34.5	3.8	1.7	1.7	1.2		1041.1	385.2	65.7	7.2	3.3	3.2	2.3	1160.7	1.4	1.0
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		1.62	0.77							3.08	1.46								
89		79-01-6	Trichloroethylene	1.70	27.04	48.97	12.78	7.53	11.27	2.94	7.21	0.00	48.21	89.92	21.08	11.10	18.20	2.36	10.48	118.69	0.67	0.63
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		2.72	2.58							5.18	4.90								
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid			269.00	432.02	256.74	331.50	133.96	210.00			511.74	821.87	488.43	630.65	254.85	399.49	817.79	0.17	0.34
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		202.02	166.58	39.90	6.15	1.18		1.19		384.32	316.89	75.90	11.69	2.25		2.26	1302.00	1.50	0.97
112		872-50-4	2-Pyrrolidinone, 1-methyl			201.77	97.91	13.85	10.36	5.14	3.72			383.84	186.26	26.34	19.70	9.78	7.07	1345.23	1.15	0.99
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		1787.01	703.04	114.25	6.30	2.10	1.04	0.65		3399.59	1337.45	217.35	11.99	4.00	1.98	1.24	9153.19	1.99	0.99
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine		1535.67	1070.69	35.10						2921.45	2036.87	66.78							
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		145.6	190.9	108.6	114.9	30.6	18.8	9.5		276.9	363.2	206.6	218.6	58.3	35.8	18.2	1223.41	0.81	0.84

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 87: Micro-scale chamber concentration and emission factor for WS8_m (wood stain; oil-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24.1 h	48 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		174.45								352.68									
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol		3.09				2.57	1.90	1.58		6.25				5.19	3.84	3.19	79.46	0.71	1.00
5		64-17-5	Ethanol		4.79				3.65	2.56	1.60		9.68				7.38	5.18	3.23	714.06	1.17	0.97
6		108-95-2	Phenol	2.75								0.00										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone	0.14	141.02	124.40	25.00		12.98	8.10	4.29	0.00	284.81	251.21	50.26		25.95	16.09	8.39	13313.1	1.60	0.97
8		67-64-1	Acetone	2.55	15.87				12.60	8.62	5.83	0.00	26.92				20.31	12.27	6.63	10015.2	1.59	0.98
9		98-86-2	Acetophenone	0.90					1.36	2.12	2.02	0.00					0.93	2.46	2.25			
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.09								0.00										
13		123-72-8	Butanal						7.68	4.26	3.63						15.53	8.61	7.34	1074.21	1.10	0.95
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal						14.00	11.48	9.00						28.31	23.21	18.20	326.55	0.63	0.98
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal					3783.88	4196.03	2448.56	1577.29					7649.71	8482.93	4950.15	3188.73	63852.0	0.61	0.67
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		5.44			113.22	86.36	53.06	35.13		11.00			228.90	174.59	107.27	71.02	3527.31	0.83	0.92
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane						0.12								0.24					
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		75179.7	79600.6	46600.3	4949.2	1423.6	753.2	470.5		151988	160925	94209.9	10005.6	2878.0	1522.7	951.2	1.1E+06	1.54	0.99
29		112-40-3	Dodecane		2380.6	2175.3	1362.4	441.6	127.0	55.3	30.7		4812.7	4397.7	2754.3	892.7	256.8	111.8	62.1	22793.9	1.21	0.96
30		142-82-5	Heptane		7.7				6.4	3.4	2.2		15.5				13.0	6.9	4.5	4811.6	1.53	1.00
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane						1.6	1.1	0.7						3.3	2.2	1.4	385.7	1.22	0.99
33		111-84-2	Nonane		70955.6	42729.7	19910.9	1858.9	709.3	341.2	178.4		143448	86384.7	40253.1	3758.0	1434.0	689.7	360.7	5.8E+05	1.58	1.00
34		111-65-9	Octane		115.0	55.7			7.2	4.0	2.3		232.5	112.6			14.5	8.2	4.6	8046.5	1.63	0.99
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane	0.19					0.4	0.3		0.0					0.4	0.3				
37		629-50-5	Tridecane		41.7				4.1	2.6	1.3		84.2				8.3	5.2	2.6	4857.7	1.63	0.96
38		1120-21-4	Undecane		21047.1	20019.8	12510.6	2714.0	368.6	186.4	115.8		42549.9	40473.2	25292.1	5486.9	745.2	376.8	234.1	3.4E+05	1.54	0.96
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		124.1	107.6	64.3	11.6	3.1	1.5	0.9		250.8	217.5	130.0	23.5	6.4	3.0	1.8	1385.4	1.41	0.98
40		611-14-3	Toluene, 2-ethyl-		7966.5	4668.7	2427.6	196.2	85.9	40.9	23.9		16105.6	9438.6	4907.8	396.6	173.6	82.6	48.2	62099.4	1.55	0.99
41		620-14-4	Toluene, 3-ethyl-		10991.7	13195.9	6698.2	516.5	216.2	101.4	56.4		22221.4	26677.6	13541.5	1044.1	437.1	205.1	114.0	1.9E+05	1.60	0.99
42		622-96-8	Toluene, 4-ethyl-		12002.4	5103.3	2576.9	203.1	121.4	55.6	30.3		24264.8	10317.0	5209.7	410.6	245.4	112.4	61.3	59571.4	1.48	0.99
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	0.20				100.5	1.8			0.0				202.8	3.2					
45		526-73-8	Benzene, 1,2,3-trimethyl-		4527.0	2858.4	1640.5	151.9	55.5	27.3	17.3		9152.1	5778.6	3316.6	307.0	112.2	55.1	34.9	38972.4	1.52	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-		14486.4	19748.5	10889.8	885.1	376.3	181.7	108.3		29286.6	39924.8	22015.5	1789.4	760.8	367.3	218.9	2.7E+05	1.54	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		2336.0	1026.6	442.4	37.5	16.6	7.8	3.8		4722.6	2075.3	894.4	75.8	33.6	15.8	7.6	13676.5	1.60	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-		9036.6	6064.4	3251.3	264.4	113.4	55.9	32.5		18269.0	12260.1	6573.0	534.6	229.3	113.1	65.7	80540.9	1.54	0.99
49		108-38-3	Benzene, 1,3-dimethyl-	0.16	3130.7	1355.1	477.2	42.1	20.4	10.0	4.8	0.0	6328.9	2739.2	964.4	84.9	40.8	19.9	9.4	16148.4	1.59	1.00
50		98-82-8	Benzene, isopropyl		1274.6	521.9	244.2	20.4	11.3	5.7	2.9		2576.7	1055.1	493.6	41.3	22.8	11.5	5.9	5965.1	1.49	0.99
51		103-65-1	Benzene, propyl-		8273.0	3554.1	1718.5	139.2	83.8	39.4	21.6		16725.2	7185.1	3474.2	281.5	169.3	79.7	43.6	39956.6	1.47	0.99
52		100-41-4	Ethylbenzene		756.9	321.1	121.5	11.5	5.2	2.3	1.2		1530.3	649.1	245.5	23.2	10.5	4.6	2.3	4022.0	1.59	1.00
53		91-20-3	Naphthalene		21.56	24.85			0.90	0.48	0.40		43.58	50.24			1.82	0.97	0.81	183.55	1.20	0.96
54		99-87-6	p-Cymene		970.66				2.91	1.44			1962.34				5.88	2.91				
55		100-42-5	Styrene	0.17								0.00										
56		108-88-3	Toluene	0.35	175.35	192.54	73.55	5.16	1.81	5.98	0.58	0.00	353.79	388.53	147.99	9.73	2.94	11.38	0.46	2514.11	1.65	0.87
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		45.81	18.94							92.61	38.29								
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 87 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24.1 h	48 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene		12.2	41.7	33.3						24.7	84.3	67.4							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		4.3								8.7									
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		33213.7	14253.5	7979.9	860.1	363.1	206.4	123.7		67146.7	28815.6	16132.6	1738.7	734.2	417.3	250.1	158678	1.4	1.0
94		1678-91-7	Cyclohexane, ethyl-		192.7	85.5	27.9		1.6	0.7			389.6	172.8	56.4		3.2	1.4		845.7	1.5	1.0
95		1678-92-8	Cyclohexane, propyl-		56559.9	24554.1	10724.5	888.8	494.3	244.4	135.2		114345	49639.9	21681.3	1796.9	999.3	494.1	273.4	272889	1.5	1.0
96		91-17-8	Decahydronaphthalene		15941.9	7219.7	4488.6	440.8	183.5	98.1	63.2		32229.0	14595.8	9074.5	891.1	371.0	198.4	127.7	86584.7	1.4	1.0
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid		1537.9				37.2	38.2	21.2		3109.2				75.2	77.3	42.8	1550.4	0.8	0.6
109		142-62-1	Hexanoic acid							58.1	36.8							117.4	74.5			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime		835.4	358.6			3.8				1689.0	725.0			7.7					
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.6 h	96.6 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.4	59.1	54.1	31.5	581.5	269.9	133.6	74.7		118.6	108.4	62.7	1174.6	544.8	269.2	150.0			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 88: Micro-scale chamber concentration and emission factor for WS9_m (wood stain; water-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		32.96		21.89	6.22	4.02		2.07		64.90		43.11	12.25	7.92		4.07	190.37	0.84	1.00
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		335.10	174.03	114.64	14.29	9.16	5.12	3.72		659.77	342.65	225.72	28.13	18.03	10.08	7.32	1384.15	1.15	0.99
4		67-63-0	2-Propanol		23.08		2.27	2.01	1.68	0.87	0.76		45.45		4.48	3.96	3.31	1.72	1.50	10.71	0.39	0.74
5		64-17-5	Ethanol		14.77		3.09	2.38	2.03	0.94			29.07		6.09	4.68	3.99	1.86		13.90	0.39	0.71
6		108-95-2	Phenol	3.10	58.73	55.00	56.22	20.74	221.78	21.48	16.52	0.00	109.53	102.18	104.58	34.72	430.54	36.18	26.41	144.90	0.22	0.09
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		3.06		1.12	0.41	0.55	0.54	0.38		6.03		2.20	0.80	1.08	1.07	0.75	3.26	0.31	0.65
8		67-64-1	Acetone	1.54	121.01	7.05	14.56	8.23	6.32	13.76	6.17	0.00	235.23	10.85	25.62	13.17	9.40	24.05	9.12	16.87	0.06	0.03
9		98-86-2	Acetophenone		19.50	3.38	8.11	7.76	24.67	2.04	1.51		38.39	6.65	15.96	15.28	48.56	4.02	2.97	15.43	0.14	0.04
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		20.26		21.00	12.28		1.53			39.90		41.34	24.17		3.01		342.65	1.03	0.85
12		100-52-7	Benzaldehyde	1.29	8.44	2.11	8.79	5.37	15.94	3.44	2.75	0.00	14.08	1.62	14.77	8.03	28.84	4.23	2.87			
13		123-72-8	Butanal		12.37								24.36									
14		112-31-2	Decanal		8.74					5.70			17.21					11.22				
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural		19.04		9.66	4.17	5.23	3.70	2.84		37.48		19.02	8.21	10.29	7.29	5.60	35.65	0.38	0.84
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal		245.46		309.49	157.87	117.03	114.08	95.71		483.27		609.35	310.82	230.41	224.60	188.43	1234.93	0.42	0.98
19		124-19-6	Nonanal				8.14			2.26					16.02			4.45				
20		18829-56-6	2-Nonenal		4.82								9.48									
21		124-13-0	Octanal		2.74								5.39									
22		2548-87-0	2-Octenal		7.25		5.76		1.52	1.22	0.84		14.27		11.34		2.99	2.41	1.65	38.05	0.67	0.99
23		110-62-3	Pentanal		18.42		8.64	6.91	5.36	5.50	3.45		36.27		17.01	13.61	10.54	10.83	6.80	30.04	0.28	0.81
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		15.80		13.08		1.30	0.66			31.11		25.75		2.55	1.31		214.78	1.17	1.00
29		112-40-3	Dodecane																			
30		142-82-5	Heptane						1.95								3.84					
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane						2.55								5.02					
33		111-84-2	Nonane		3.83				1.14				7.55				2.24					
34		111-65-9	Octane						2.00								3.94					
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane						0.47	0.75							0.93	1.48				
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		6.25	0.97	2.27						12.30	1.91	4.48							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-		0.30								0.60									
42		622-96-8	Toluene, 4-ethyl-		0.18								0.36									
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		15.01				167.79				29.55				330.36					
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-				0.34		0.38	0.25	0.10				0.67		0.75	0.49	0.20	1.28	0.28	0.33
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.20								0.40									
49		108-38-3	Benzene, 1,3-dimethyl-	0.35	1.56		1.32	0.87	1.35	0.93	0.46	0.00	2.39		1.90	1.03	1.98	1.15	0.22	5.48	0.48	0.36
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-		0.31				0.26				0.61				0.50					
52		100-41-4	Ethylbenzene	0.13	0.83	0.63	0.50	0.30	0.60	0.29	0.13	0.00	1.37	0.97	0.72	0.34	0.91	0.31		1.14	0.24	0.34
53		91-20-3	Naphthalene		0.81		0.30	0.23	2.51				1.59		0.60	0.46	4.94					
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene		2.64	1.11	1.71	0.77	8.01	0.30	0.26		5.19	2.19	3.38	1.52	15.77	0.59	0.51	4.61	0.28	0.09
56		108-88-3	Toluene	0.41	6.84	0.89	1.66	1.40	5.85	1.42	0.63	0.00	12.65	0.94	2.45	1.95	10.70	1.98	0.44			
57		98-83-9	2-Phenylpropene		9.17		7.50	1.00	0.58				18.06		14.77	1.98	1.13			134.46	1.27	0.98
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester						0.62								1.23					
63		80-62-6	Methyl methacrylate						1.02								2.01					
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone				17.12	11.86							33.72	23.34						
66		25265-77-4	Texanol				11.59		8.62	4.85	3.15				22.83		16.96	9.55	6.20	51.44	0.39	0.72
67		6846-50-0	TXIB						1.15	1.32	1.26						2.27	2.59	2.48			

Table A. 88 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		252303	3054.9	435000	208648	104803	68762.4	48686.9		496751	6014.6	856456	410800	206342	135384	95858.1			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth		763.24	86.67	1245.40	292.18	167.99	70.23	39.43		1502.7	170.6	2452.0	575.3	330.7	138.3	77.6	1248.90	0.45	0.26
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		41098	272.95	7154.38	563.82	310.67	214.96	143.00		80916.9	537.4	14086.0	1110.1	611.7	423.2	281.5	5225.58	0.55	0.30
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		30.45		1.25						59.9		2.5							
77		5131-66-8	Proylene glycol monobuty		5.40		5.87						10.6		11.6							
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	1.6	53.7	2.7	10.1	6.2	18.0	16.0	2.8	0.0	102.6	2.3	16.8	9.0	32.4	28.4	2.4			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		2.7								5.4									
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid				203.2	176.4	449.1	210.5	177.0				400.1	347.4	884.2	414.5	348.5			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid		25.6	40.3	69.6	16.3	13.3	4.1	2.1		50.4	79.3	137.1	32.2	26.3	8.1	4.1	385.8	0.9	0.8
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		31.7		11.7	3.7	1.0				62.4		23.0	7.3	2.0			188.2	1.1	1.0
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide		114.7	21.1	177.4	90.6	29.8	33.4	28.3		225.9	41.6	349.2	178.5	58.6	65.7	55.8	150.2	0.2	0.1
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		55.8	81.6	110.5	113.1	114.6	99.7	42.4		109.9	160.7	217.5	222.6	225.7	196.3	83.4	236.05	0.09	0.11

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 89: Micro-scale chamber concentration and emission factor for UR9_m (polyurethane; oil-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24.1 h	48 h	72.1 h	96.1 h	0 h	1.5 h	3 h	6 h	24.1 h	48 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		329.39				10.82	6.98			629.85				20.70	13.34				
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol		2.94				1.57		1.81		5.63				3.00		3.46			
5		64-17-5	Ethanol		10.09				5.53	4.21	4.89		19.29				10.57	8.06	9.36	22.43	0.21	0.28
6		108-95-2	Phenol	2.19								0.00										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		18.0				11.4	7.6	4.8		34.3				21.9	14.4	9.1	2842.8	1.25	0.98
8		67-64-1	Acetone	0.6	146.7				19.0	14.2	10.6	0.0	279.4				35.2	26.1	19.3	993.9	0.86	0.99
9		98-86-2	Acetophenone	0.4					1.8	1.6	1.8	0.0					2.7	2.4	2.7	2.7	0.01	0.00
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.6								0.0										
13		123-72-8	Butanal						13.4	7.9	5.6						25.7	15.1	10.8	3331.1	1.26	1.00
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal						52.6	31.0	23.2						100.6	59.3	44.3	9985.3	1.19	1.00
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal			9693.4	26735.5	4031.1	4549.6	2699.3	1607.7			18535.4	51122.8	7708.1	8699.7	5161.5	3074.2	68144.6	0.61	0.74
19		124-19-6	Nonanal						83.0	59.0	41.3						158.7	112.7	79.0	7611.9	0.99	0.99
20		18829-56-6	2-Nonenal						16.2	8.4	6.4						30.9	16.0	12.2	5888.1	1.36	0.98
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal		10.0	390.4	1353.7	184.3	129.9	73.1	47.4		19.2	746.5	2588.5	352.5	248.4	139.8	90.6	3892.8	0.76	0.77
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		62111.5	22941	7687.0	1703.7	733.0	393.6	255.0		118767	43867.9	14698.8	3257.7	1401.6	752.7	487.7	164075	1.26	1.00
29		112-40-3	Dodecane		7110.3	6110.3	1773.6	163.9	69.6	37.8	24.6		13596.1	11683.9	3391.5	313.5	133.1	72.3	47.1	60888.3	1.59	1.00
30		142-82-5	Heptane		4.5		55.5		7.6	3.9	2.8		8.6		106.0		14.5	7.5	5.3	4016.4	1.46	0.99
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		2.9				1.9	1.0			5.5				3.6	1.9				
33		111-84-2	Nonane		10547.3	5442.0	2386.5	499.6	175.4	92.6	58.0		20168.3	10406.1	4563.3	955.4	335.3	177.0	110.9	47799.5	1.30	1.00
34		111-65-9	Octane		416.7	213.4	158.3	28.9	11.3	6.3	4.1		796.8	408.0	302.8	55.2	21.6	12.0	7.8	1982.4	1.18	0.99
35		629-62-9	Pentadecane								0.2								0.4			
36		629-59-4	Tetradecane	0.2	5.2				0.9	0.5	0.4	0.0	9.7				1.5	0.6	0.4	1579.7	1.81	0.99
37		629-50-5	Tridecane		184.9	175.5	105.9		4.5	2.5	1.4		353.6	335.7	202.6		8.5	4.7	2.7	5645.6	1.67	0.99
38		1120-21-4	Undecane		41010.3	27699.5	5759.3	937.6	302.9	172.3	112.9		78418.6	52966.0	11012.8	1792.9	579.2	329.5	215.9	234088	1.54	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		119.3	62.5	17.5		0.8	0.4	0.4		228.0	119.4	33.5		1.6	0.8	0.7			
40		611-14-3	Toluene, 2-ethyl-		3169.9	927.8	336.2	66.6	37.3	20.7	13.1		6061.4	1774.1	642.9	127.3	71.4	39.5	25.0	6026.5	1.18	1.00
41		620-14-4	Toluene, 3-ethyl-		5055.1	2479.4	943.7	174.4	87.7	48.1	30.0		9666.2	4741.1	1804.5	333.5	167.7	91.9	57.3	17942.9	1.24	1.00
42		622-96-8	Toluene, 4-ethyl-		3594.9	944.6	376.0	64.5	53.0	27.6	18.4		6874.1	1806.1	719.0	123.4	101.4	52.7	35.1	5428.3	1.09	0.99
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		4290.1	1146.1	327.0	56.2	35.2	18.2	12.5		8203.4	2191.5	625.4	107.5	67.4	34.8	23.9	7164.2	1.25	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-		10796.4	4499.2	1528.2	273.5	169.9	90.5	58.8		20644.6	8603.3	2922.1	523.0	324.9	173.0	112.4	28743.1	1.20	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		646.2	298.8	134.6	27.7	11.7	6.6	4.2		1235.7	571.4	257.4	53.0	22.4	12.6	8.1	2304.9	1.22	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-		4203.8	1121.7	408.7	78.3	45.0	24.0	15.5		8038.3	2144.9	781.5	149.7	86.0	46.0	29.7	7377.7	1.19	1.00
49		108-38-3	Benzene, 1,3-dimethyl-		5031.4	2413.0	1111.9	178.1	88.8	48.0	30.0		9620.8	4614.1	2126.2	340.5	169.9	91.7	57.4	19385.3	1.26	1.00
50		98-82-8	Benzene, isopropyl		254.7	92.6	39.1	8.0	4.7	2.6	1.5		487.0	177.1	74.7	15.2	8.9	5.0	2.9	605.0	1.13	0.99
51		103-65-1	Benzene, propyl-		2045.8	612.1	264.3	49.4	35.2	19.0	12.0		3912.0	1170.5	505.4	94.5	67.3	36.4	23.0	3724.4	1.09	0.99
52		100-41-4	Ethylbenzene	0.0	1107.4	541.3	257.2	40.7	17.2	9.6	5.8	0.0	2117.5	1035.1	491.8	77.7	32.8	18.3	11.1	4795.6	1.31	1.00
53		91-20-3	Naphthalene		13.7	13.0				0.2	0.2		26.2	24.9				0.4	0.4	98.1	1.24	1.00
54		99-87-6	p-Cymene						1.5		0.6						2.9		1.1			
55		100-42-5	Styrene	0.1								0.0										
56		108-88-3	Toluene	0.3	41.0	50.4	33.3	2.4	1.7	0.9	1.1	0.0	78.0	95.9	63.3	4.0	2.7	1.3	1.5	466.9	1.33	0.97
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		46.1								88.2									
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester		229.4								438.7									
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB						3.5	2.2	1.4						6.7	4.2	2.8	901.3	1.26	0.99

Table A. 89 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24.1 h	48 h	72.1 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24.1 h	48 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene			23.05	31.92		10.18					44.08	61.04		19.47			83.44	0.36	0.75
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		45.0								86.0									
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		26049.7	4728.4	1251.1	259.8	185.2	90.9	66.0		49811.3	9041.5	2392.4	496.8	354.1	173.8	126.1	25326.4	1.16	0.98
94		1678-91-7	Cyclohexane, ethyl-		539.7	223.9	108.8	18.3	5.7	3.4	2.2		1032.0	428.2	208.0	35.0	10.9	6.6	4.1	2193.7	1.36	1.00
95		1678-92-8	Cyclohexane, propyl-		6752.0	2491.8	938.5	204.6	92.6	56.4	35.8		12910.9	4764.8	1794.6	391.2	177.0	107.9	68.4	16852.8	1.19	1.00
96		91-17-8	Decahydronaphthalene		14203.6	2340.3	611.5	116.6	80.6	45.9	26.7		27159.7	4475.1	1169.4	222.9	154.2	87.8	51.0	13063.7	1.20	0.98
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid						60.3	20.8	39.0						115.3	39.7	74.5	1761.49	0.76	0.24
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid		275.7				56.0	12.7	11.8		527.2				107.0	24.2	22.5	7.9E+05	2.34	0.86
109		142-62-1	Hexanoic acid						642.0	172.7	177.9						1227.5	330.3	340.2	1.9E+06	1.94	0.81
110		109-52-4	Pentanoic Acid						56.0								107.2					
111	Other	3777-69-3	Furan, 2-pentyl						153.5	94.8	69.8						293.5	181.4	133.4	2.4E+04	1.14	1.00
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime		421.5								806.0									
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.7 h	96.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.3 h	24.3 h	48.4 h	72.7 h	96.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.9	50.9	7709.5	2821.2	840.8	450.2	206.7	149.4		95.7	14740.1	5393.0	1606.0	859.2	393.5	284.0	5.2E+04	1.11	0.99

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 90: Micro-scale chamber concentration and emission factor for UR10_m (polyurethane; water-based)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		327.70	123.90	45.03	11.10	10.65	10.06	7.16		613.17	231.84	84.25	20.76	19.94	18.82	13.40	396.11	0.77	0.93
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		6297.8	1219.0	1898.6	76.9	39.8	17.88	12.29		11783.8	2280.8	3552.6	143.94	74.52	33.46	22.99	21992.6	1.50	0.95
4		67-63-0	2-Propanol		7.04	5.50	4.78	2.43	2.15		0.98		13.18	10.28	8.94	4.54	4.02		1.83	19.40	0.47	0.93
5		64-17-5	Ethanol		14.81	11.42	8.37	5.38	4.29	5.31	2.80		27.70	21.36	15.66	10.07	8.04	9.93	5.25	29.77	0.33	0.87
6		108-95-2	Phenol	2.19			15.39	9.78	228.06	9.61	8.30	0.00			24.70	14.20	422.62	13.89	11.44	31.32	0.01	0.00
7	Aldehydes & ketones	78-93-3	Methylethyl ketone		1.85	1.44	1.22	0.49	0.49	0.93	0.81		3.46	2.69	2.28	0.92	0.91	1.73	1.52	2.88	0.20	0.38
8		67-64-1	Acetone	0.63	318.60	180.47	88.16	23.44	11.12	7.87	5.80	0.00	594.96	336.50	163.78	42.70	19.63	13.55	9.68	1044.67	1.02	1.00
9		98-86-2	Acetophenone						22.12		1.49						41.39		2.78			
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		23.60	22.31	21.59	12.54	1.52	9.73	10.37		44.16	41.75	40.41	23.47	2.84	18.21	19.41	66.82	0.41	0.34
12		100-52-7	Benzaldehyde	1.02	5.88	5.39	5.40	2.49	17.60	2.77	2.74	0.00	9.09	8.17	8.20	2.75	31.02	3.28	3.21	9.96	0.15	0.05
13		123-72-8	Butanal		89.94	31.84	8.89		4.02	16.51	15.68		168.28	59.57	16.63		7.52	30.88	29.35	39.12	0.17	0.11
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal		85.09	82.20	65.94	24.54	21.83	20.74	36.92		159.22	153.80	123.37	45.92	40.85	38.81	69.07	204.78	0.35	0.70
16		98-01-1	Furfural					3.76	5.54	4.25	3.67					7.03	10.37	7.96	6.87	8.38	0.01	0.00
17		111-71-7	Heptanal						2.97	21.37	28.69						5.56	39.98	53.68			
18		66-25-1	Hexanal		2129.29	1237.88	647.23	287.27	327.60	4285.80	5215.22		3984.14	2316.20	1211.04	537.51	612.97	8019.20	9758.24			
19		124-19-6	Nonanal								31.32								58.60			
20		18829-56-6	2-Nonenal							9.35	7.05							17.50	13.20			
21		124-13-0	Octanal							5.63	12.69							10.53	23.75			
22		2548-87-0	2-Octenal							44.18	69.59							82.67	130.21			
23		110-62-3	Pentanal		59.29	39.07	23.80	12.68	12.67	79.36	97.91		110.94	73.10	44.54	23.72	23.71	148.48	183.20			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		174.75	19.67	3.11		1.05				326.97	36.80	5.82		1.97			62.04	0.94	0.83
29		112-40-3	Dodecane		19.40	5.17	0.95						36.29	9.66	1.77							
30		142-82-5	Heptane								3.60								6.73			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane						2.50	0.97							4.67	1.81				
33		111-84-2	Nonane		65.72	4.74	1.62		1.57				122.97	8.87	3.04		2.94			8.66	0.31	0.51
34		111-65-9	Octane						2.03	2.93	3.70						3.79	5.49	6.93			
35		629-62-9	Pentadecane		1.67		0.99			0.80			3.13		1.84			1.50				
36		629-59-4	Tetradecane		1.52	1.59		0.68	0.80	0.78			2.84	2.98		1.28	1.50	1.46		3.56	0.24	0.77
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		138.31	17.79	3.98						258.79	33.28	7.45							
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet		17.72	5.22	1.08						33.16	9.77	2.03							
40		611-14-3	Toluene, 2-ethyl-		21.28	3.40	0.68						39.82	6.36	1.27							
41		620-14-4	Toluene, 3-ethyl-		66.95	9.24	1.68						125.26	17.29	3.15							
42		622-96-8	Toluene, 4-ethyl-		28.68	3.98	1.06						53.66	7.45	1.99							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene						122.18								228.61					
45		526-73-8	Benzene, 1,2,3-trimethyl-		33.56	6.14	1.12						62.79	11.48	2.10							
46		95-63-6	Benzene, 1,2,4-trimethyl-		76.07	12.04	2.34		0.19				142.34	22.53	4.38		0.35			84.49	1.44	0.97
47		95-47-6	Benzene, 1,2-dimethyl-		1928.83	354.70	77.56	6.28	2.42	1.24	0.70		3609.05	663.68	145.13	11.75	4.53	2.31	1.30	3933.81	1.76	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-		25.86	3.92	0.75						48.38	7.34	1.41							
49		108-38-3	Benzene, 1,3-dimethyl-	0.31	4216.13	1080.12	233.58	19.80	7.75	3.95	2.43	0.00	7888.25	2020.44	436.48	36.48	13.93	6.81	3.96	11995.1	1.76	1.00
50		98-82-8	Benzene, isopropyl		53.75	7.45	1.43						100.57	13.94	2.68							
51		103-65-1	Benzene, propyl-		42.40	6.09	1.36		0.23				79.33	11.39	2.54		0.43			28.37	1.11	0.95
52		100-41-4	Ethylbenzene	0.10	1636.89	302.04	67.92	5.68	2.34	1.22	0.75	0.00	3062.61	564.96	126.89	10.43	4.20	2.09	1.22	3266.95	1.74	1.00
53		91-20-3	Naphthalene		8.28	4.87							15.49	9.11								
54		99-87-6	p-Cymene		2.11								3.94									
55		100-42-5	Styrene					0.80	4.65	0.46	0.35					1.50	8.70	0.87	0.65	35.71	0.77	0.16
56		108-88-3	Toluene	0.52	21.56	8.27	3.38	1.74	4.00	0.93	0.84	0.00	39.37	14.51	5.36	2.29	6.52	0.77	0.61	29.10	0.74	0.68
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		9.18								17.18									
62		141-78-6	Acetic acid, ethyl ester		0.89				0.51				1.67				0.96					
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		25.25	9.67							47.24	18.09								
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB						0.71	0.92	0.97						1.33	1.72	1.82			

Table A. 90 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48.1 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		4888.95	2991.67	1523.09	392.31	202.12	137.25	74.38		9147.75	5597.74	2849.86	734.05	378.18	256.82	139.18	18051.0	1.02	0.99
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		306.29	114.26	23.51		2.82	1.45	1.25		573.10	213.79	43.99		5.27	2.71	2.34	621.23	1.25	0.98
73		112-34-5	Ethanol, 2-butoxyethoxy-		1495.53	1259.24	663.36	125.68	131.15	73.49	31.20		2798.30	2356.17	1241.21	235.15	245.39	137.50	58.39	6885.15	0.97	0.95
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		1.18								2.21									
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	1.96	29.63	19.86	16.97	13.74	24.88	4.56	2.98	0.00	51.78	33.51	28.10	22.04	42.90	4.86	1.91	94.31	0.60	0.46
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		17.23								32.23									
92		110-82-7	Cyclohexane		1.22								2.28									
93		1678-93-9	Cyclohexane, butyl-		33.97	3.69							63.56	6.90								
94		1678-91-7	Cyclohexane, ethyl-		7.25								13.56									
95		1678-92-8	Cyclohexane, propyl-		28.94	2.95							54.16	5.52								
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid		289.10	227.26	276.12	242.28	532.84	290.89	262.46		540.94	425.23	516.65	453.33	997.00	544.28	491.08			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid		36.37	35.60	22.59	14.61	26.71	21.33	12.91		68.06	66.62	42.27	27.34	49.98	39.91	24.16	67.45	0.17	0.41
109		142-62-1	Hexanoic acid						2.40	25.29	96.74						4.49	47.32	181.00			
110		109-52-4	Pentanoic Acid							2.35	6.48							4.39	12.13			
111	Other	3777-69-3	Furan, 2-pentyl		367.54	79.39	10.10	1.97	1.51	12.18	33.72		687.71	148.56	18.90	3.69	2.82	22.79	63.09	61.24	0.38	0.12
112		872-50-4	2-Pyrrolidinone, 1-methyl		152669	110228	63691	21142	11908	8412	3631		285661	206249	119172	39559	22281	15739	6794	611876	0.90	0.97
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine		8845.68	7641.80	6251.84	1543.72	622.40	242.32	25.24		16551	14299	11697.9	2888.47	1164.58	453.41	47.22	124959	1.41	0.84
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.8 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		10.2	9.9	6.2	16.9	17.2	89.9	52.0		19.1	18.5	11.7	31.6	32.2	168.1	97.4			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 91: Micro-scale chamber concentration and emission factor for ADH8a_m (adhesive; zero VOC)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol			7.90	4.84	3.12	4.10	6.00				15.14	9.29	5.98	7.87	11.51		13.21	0.12	0.20
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.97			3.34	3.08	3.21	3.73	1.85	0.00			4.55	4.05	4.30	5.29	1.69	7.03	0.18	0.20
9		98-86-2	Acetophenone	0.70	2.53	2.66	3.46	1.44	0.81	0.75	0.25	0.00	3.50	3.75	5.28	1.42	0.20	0.09		28.37	1.22	0.86
10		108-94-1	Cyclohexanone		2.45								4.70									
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.80	2.87	3.04	2.00	1.82	1.21	1.52	0.67	0.00	3.97	4.29	2.30	1.96	0.78	1.39		5.79	0.40	0.76
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal		5.36								10.29									
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		32.04	50.69	46.55	7.90	2.92	0.86			61.45	97.22	89.29	15.15	5.59	1.66		600.92	1.26	0.94
29		112-40-3	Dodecane		10.71	13.83	16.10	7.00	4.71	2.34	0.96		20.53	26.52	30.87	13.43	9.04	4.48	1.84	87.15	0.70	0.83
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		7.42	10.71	8.94	1.16	0.42				14.23	20.54	17.14	2.22	0.81			106.61	1.23	0.97
34		111-65-9	Octane		2.44	2.82	2.20						4.68	5.40	4.23							
35		629-62-9	Pentadecane						2.29								4.39					
36		629-59-4	Tetradecane				1.88	1.70	17.21	1.69	1.49				3.61	3.26	33.02	3.23	2.87			
37		629-50-5	Tridecane						0.72								1.37					
38		1120-21-4	Undecane		11.43	17.90	20.12	4.70	2.20	0.79			21.93	34.34	38.59	9.01	4.22	1.52		152.88	0.98	0.92
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		3.25	2.94	2.35	0.66	0.4	0.2	0.1		6.2	5.6	4.5	1.3	0.7	0.3	0.1	25.2	1.0	0.9
40		611-14-3	Toluene, 2-ethyl-		5.02	3.62	2.81	0.60	0.2	0.1			9.6	6.9	5.4	1.2	0.4	0.2		30.8	1.1	1.0
41		620-14-4	Toluene, 3-ethyl-		7.18	5.81	4.71	0.72	0.2				13.8	11.2	9.0	1.4	0.4			58.2	1.2	1.0
42		622-96-8	Toluene, 4-ethyl-		5.14	3.76	3.15	0.54	0.1				9.9	7.2	6.1	1.0	0.2			40.1	1.2	0.9
43		31017-40-0	Cyclohexene, 4-phenyl		1.92	2.01	2.23	1.41	1.2	0.9	0.6		3.7	3.9	4.3	2.7	2.3	1.7	1.1	6.9	0.3	0.8
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		8.08	6.01	4.51	1.10	0.4	0.2			15.5	11.5	8.6	2.1	0.9	0.4		48.5	1.1	1.0
46		95-63-6	Benzene, 1,2,4-trimethyl-		14.13	11.29	9.16	1.98	0.6	0.3			27.1	21.7	17.6	3.8	1.2	0.5		112.4	1.2	1.0
47		95-47-6	Benzene, 1,2-dimethyl-		4.15	2.68	1.94	0.50	0.2				8.0	5.1	3.7	1.0	0.3			18.4	1.0	1.0
48		108-67-8	Benzene, 1,3,5-trimethyl-		3.41	2.54	2.14	0.48	0.2				6.5	4.9	4.1	0.9	0.3			18.6	1.0	1.0
49		108-38-3	Benzene, 1,3-dimethyl-	0.22	8.73	5.91	4.43	0.90	0.3	0.3	0.3	0.0	16.3	10.9	8.1	1.3	0.2	0.2	0.1	85.8	1.5	1.0
50		98-82-8	Benzene, isopropyl		14.79	10.86	8.30	1.44	0.5				28.4	20.8	15.9	2.8	1.0			91.8	1.1	1.0
51		103-65-1	Benzene, propyl-		2.91	2.24	1.88	0.42	0.1				5.6	4.3	3.6	0.8	0.3			17.4	1.0	1.0
52		100-41-4	Ethylbenzene	0.08	4.50	2.88	2.18	0.44	0.2	0.1	0.1	0.0	8.5	5.4	4.0	0.7	0.2	0.1		30.7	1.3	1.0
53		91-20-3	Naphthalene		712.27	608.87	545.91	210.06	91.0	43.4	19.4		1366.2	1167.8	1047.1	402.9	174.5	83.2	37.3	4884.1	0.9	0.9
54		99-87-6	p-Cymene		17.58	16.10	13.33	2.96	1.1	0.4	0.2		33.7	30.9	25.6	5.7	2.0	0.8	0.4	192.3	1.3	0.9
55		100-42-5	Styrene		74.05	45.49	28.98	3.70	0.9	0.5			142.0	87.3	55.6	7.1	1.7	0.9		601.4	1.5	1.0
56		108-88-3	Toluene	0.32	5.04	2.90	2.14	1.14	0.4	0.7	0.3	0.0	9.1	4.9	3.5	1.6	0.2	0.7		14.1	0.8	0.8
57		98-83-9	2-Phenylpropene		20.88	15.94	11.60	1.98	0.4				40.0	30.6	22.3	3.8	0.8			170.2	1.3	1.0
58		95-13-6	Indene		65.89	44.38	32.16	6.42	2.0	0.6	0.2		126.4	85.1	61.7	12.3	3.9	1.1	0.4	722.1	1.5	0.9
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB	0.62					0.9			0.0					0.5					

Table A. 91 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol				117.50		9.7	5.1					225.4		18.6	9.8		2105.4	1.2	1.0
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.50	0.79	0.76	1.05	1.14	0.47	0.82	2.66	0.00	0.54	0.49	1.05	1.22		0.61	4.13			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		6.17	8.69	8.84	1.82	0.86	0.50			11.83	16.67	16.95	3.50	1.65	0.96		65.27	0.95	0.96
94		1678-91-7	Cyclohexane, ethyl-		0.88		1.08						1.69		2.06							
95		1678-92-8	Cyclohexane, propyl-		5.13	6.19	4.73	0.72	0.38				9.85	11.87	9.06	1.38	0.74			46.90	1.08	0.98
96		91-17-8	Decahydronaphthalene		3.64	3.91	4.42	1.06	0.38				6.98	7.50	8.48	2.04	0.74			27.68	0.88	0.91
97	Terpenes	80-56-8	alpha-Pinene		15.95	15.24	13.39	3.00	1.73	1.10	0.61		30.59	29.24	25.68	5.75	3.31	2.10	1.16	105.88	0.93	0.97
98		99-86-5	alpha-Terpinene		15.97	14.54	12.76	2.96	1.19				30.64	27.89	24.47	5.69	2.28			99.10	0.93	0.96
99		127-91-3	beta-Pinene		3.51	2.92	2.71	0.72	0.34				6.73	5.60	5.20	1.38	0.66			17.00	0.81	0.96
100		99-85-4	gamma-Terpinene		1.53	1.40	1.54						2.94	2.69	2.95							
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene		2.53	2.16	2.15						4.85	4.15	4.13							
103		5989-27-5	Limonene		14.42	14.11	13.43	3.20	1.30		0.98		27.65	27.06	25.75	6.14	2.50		1.88	88.24	0.86	0.97
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane						0.81	1.14							1.54	2.18				
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.6 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	0 h	2.1 h	3.6 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	1.6	20.7	1.9	2.2	0.1	0.8	0.3	0.4		36.6	0.5	1.1							

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 92: Micro-scale chamber concentration and emission factor for ADH9_m (adhesive; ultra-low VOC)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		184.18	48.52	61.38	10.78	2.54				369.46	97.34	123.14	21.63	5.09			524.59	1.10	0.89
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol	2.24	21.65	7.54	8.57	3.16	3.99	3.74			38.95	10.65	12.71	1.86	3.53	3.02		20.29	0.50	0.67
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone		5.73	4.01	4.41	1.73	3.15	0.67	1.44		11.49	8.05	8.84	3.47	6.33	1.34	2.88	14.61	0.39	0.58
9		98-86-2	Acetophenone	1.16	8.41	4.25	8.30	0.97	2.24	0.50	0.39		14.54	6.19	14.30		2.15			17.89	0.50	0.59
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.79	10.45	4.45	3.63	1.17	1.72	1.00	0.66		19.37	7.34	5.71	0.77	1.86	0.43		19.14	0.81	0.80
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		498.57	267.23	369.67	14.14	0.67				1000.14	536.07	741.56	28.36	1.35			#######	2.20	0.89
29		112-40-3	Dodecane		20.88	12.29	25.24	8.54	1.49				41.89	24.65	50.63	17.14	2.99			106.34	0.76	0.65
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		158.87	81.90	94.53	1.96					318.69	164.30	189.63	3.93				2505.23	1.94	0.87
34		111-65-9	Octane		16.94	7.73	8.63						33.97	15.51	17.31							
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane					0.49								0.99						
37		629-50-5	Tridecane					0.72								1.45						
38		1120-21-4	Undecane		178.72	106.21	195.57	16.60	0.87				358.51	213.05	392.32	33.29	1.75			3557.49	1.74	0.82
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet		10.26	4.10	8.09	1.52	0.19				20.59	8.22	16.22	3.05	0.38			58.19	1.13	0.76
40		611-14-3	Toluene, 2-ethyl-	0.35	21.03	6.94	9.85	0.75					41.49	13.22	19.07	0.82				115.96	1.47	0.82
41		620-14-4	Toluene, 3-ethyl-		34.29	10.97	16.28	0.66					68.79	22.01	32.66	1.32				199.98	1.49	0.81
42		622-96-8	Toluene, 4-ethyl-		24.68	8.42	10.81	0.36					49.51	16.89	21.69	0.71				182.19	1.66	0.85
43		31017-40-0	Cyclohexene, 4-phenyl		41.63	16.40	43.14	32.11	16.20	10.09	4.90		83.51	32.90	86.53	64.42	32.50	20.24	9.83	100.96	0.36	0.42
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		38.89	12.35	19.33	1.92	0.16				78.01	24.78	38.79	3.84	0.32			305.29	1.59	0.85
46		95-63-6	Benzene, 1,2,4-trimethyl-		74.44	24.28	38.13	2.21					149.32	48.71	76.49	4.43				340.27	1.28	0.79
47		95-47-6	Benzene, 1,2-dimethyl-		14.33	3.78	4.93	0.28					28.75	7.59	9.88	0.57				55.07	1.36	0.84
48		108-67-8	Benzene, 1,3,5-trimethyl-		17.38	5.75	8.79	0.68					34.86	11.53	17.64	1.37				65.87	1.14	0.78
49		108-38-3	Benzene, 1,3-dimethyl-		25.29	7.25	8.27	0.30					50.73	14.55	16.60	0.61				148.16	1.65	0.87
50		98-82-8	Benzene, isopropyl		46.61	15.33	21.73	1.29					93.51	30.75	43.58	2.59				214.34	1.31	0.81
51		103-65-1	Benzene, propyl-		25.68	8.74	12.09	0.46					51.51	17.52	24.25	0.92				169.06	1.55	0.83
52		100-41-4	Ethylbenzene		15.30	4.28	4.86						30.69	8.59	9.76							
53		91-20-3	Naphthalene		1336.06	503.53	1048.40	321.71	56.23	11.81	1.94		2680.16	1010.09	2103.10	645.35	112.80	23.68	3.89	#######	1.51	0.76
54		99-87-6	p-Cymene		30.90	11.12	16.87	1.81					61.99	22.30	33.84	3.63				101.21	0.98	0.76
55		100-42-5	Styrene	0.31	820.31	196.95	204.80	3.36	0.53	0.22			1644.95	394.47	410.22	6.13	0.44			#######	2.57	0.94
56		108-88-3	Toluene	0.45	7.32	2.47	2.49	0.50	0.73	0.21	0.47		13.78	4.03	4.09	0.10	0.54		0.03	24.70	1.36	0.78
57		98-83-9	2-Phenylpropene		58.69	18.62	25.00	0.95					117.74	37.36	50.16	1.92				359.95	1.56	0.84
58		95-13-6	Indene		174.05	50.90	76.71	5.03					349.15	102.12	153.88	10.10				657.61	1.23	0.79
59	Esters	108-21-4	Acetic acid, 1-methylethy																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		12.20	4.17	10.51						24.48	8.36	21.08							
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB						0.82		0.79						1.64		1.59			

Table A. 92 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol				196.83	30.76							394.85	61.70						
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoeth																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		405.60	72.78	36.06	2.96					813.64	146.01	72.35	5.95				965.18	1.58	0.98
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride						1.63								3.27					
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	3.69	3.65	4.33	6.28	3.33	6.47	2.66	4.87			1.28	5.20		5.57		2.38			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		80.67	39.67	66.16	7.00					161.82	79.57	132.73	14.05				358.97	0.95	0.72
94		1678-91-7	Cyclohexane, ethyl-		15.27	6.83	10.82	0.88					30.64	13.70	21.71	1.76				75.43	1.11	0.76
95		1678-92-8	Cyclohexane, propyl-		66.11	27.72	40.09	3.10					132.62	55.60	80.43	6.23				320.63	1.17	0.80
96		91-17-8	Decahydronaphthalene		29.71	15.25	24.25	4.12					59.59	30.59	48.65	8.26				99.48	0.72	0.69
97	Terpenes	80-56-8	alpha-Pinene		57.25	23.41	38.42	6.90	1.11	0.36			114.85	46.95	77.07	13.84	2.24	0.71		463.13	1.36	0.86
98		99-86-5	alpha-Terpinene		34.49	6.79	9.24	1.95					69.19	13.62	18.54	3.91				38.99	0.67	0.75
99		127-91-3	beta-Pinene		12.13	5.43	7.48	1.60					24.33	10.90	15.01	3.21				30.82	0.66	0.74
100		99-85-4	gamma-Terpinene		5.98		3.71						12.00		7.45							
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene		6.46	2.46	3.36	0.90					12.96	4.94	6.74	1.80				11.97	0.55	0.72
103		5989-27-5	Limonene		57.73	19.60	41.56	4.54	0.63		0.66		115.81	39.32	83.37	9.12	1.27		1.33	313.69	1.24	0.86
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane						1.36								2.72					
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		13.40								26.88									
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.8 h	6.7 h	25.2 h	49.2 h	73.2 h	97.2 h	0 h	2.1 h	3.8 h	6.7 h	25.2 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein		6.5	2.8	3.3	1.1	1.3	0.9	0.7		13.1	5.6	6.6	2.2	2.6	1.9	1.4	11.70	0.44	0.88

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 93: Micro-scale chamber concentration and emission factor for ADH10_m (adhesive; multi-purpose)

#		CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		5.40	6.30	3.17						10.70	12.49	6.29							
4		67-63-0	2-Propanol		5.07								10.05									
5		64-17-5	Ethanol		14.55								28.84									
6		108-95-2	Phenol		80.19	116.15	77.41	19.81	14.17	8.36	6.07		158.91	230.16	153.40	39.26	28.08	16.57	12.02	639.50	0.85	0.99
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone		6.38			2.71	2.78	3.17	1.11		12.65			5.36	5.51	6.27	2.20	26.46	0.45	0.31
9		98-86-2	Acetophenone		7.21	4.98	3.56	1.66	0.87	0.88	0.27		14.30	9.87	7.05	3.30	1.73	1.74	0.53	25.65	0.72	0.89
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		0.95								1.89									
12		100-52-7	Benzaldehyde	0.48	4.19	2.53	1.38	1.47	1.14	0.92	0.53	0.00	7.36	4.06	1.78	1.97	1.30	0.87	0.10	9.54	0.69	0.59
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal		13.18								26.12									
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		9.11	9.35	21.61	3.56	0.63	0.13			18.04	18.54	42.82	7.06	1.24	0.26		224.53	1.38	0.81
29		112-40-3	Dodecane		5.27	5.04	7.81	6.57	3.42	1.07	0.56		10.44	10.00	15.47	13.01	6.78	2.11	1.11	35.89	0.59	0.60
30		142-82-5	Heptane				1.25								2.47							
31		544-76-3	Hexadecane						2.40	2.13	1.88						4.76	4.22	3.72	18.80	0.35	0.99
32		110-54-3	Hexane																			
33		111-84-2	Nonane		1.93	1.31	3.24						3.82	2.60	6.42							
34		111-65-9	Octane		4.83	2.80	8.29						9.57	5.55	16.43							
35		629-62-9	Pentadecane				1.37	2.41	3.04	2.59	2.46				2.71	4.77	6.03	5.14	4.86			
36		629-59-4	Tetradecane		1.23	1.07	2.09	3.44	3.40	3.02	2.51		2.44	2.13	4.15	6.82	6.74	5.97	4.98			
37		629-50-5	Tridecane					1.51	1.10		0.43					3.00	2.17		0.85	59.74	0.91	0.93
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.70	0.66	0.50	0.22					1.38	1.30	1.00	0.43				2.47	0.54	0.99
40		611-14-3	Toluene, 2-ethyl-		5.23	3.26	3.44	0.80	0.16				10.36	6.45	6.82	1.58	0.32			32.28	1.09	0.89
41		620-14-4	Toluene, 3-ethyl-		10.50	7.59	8.19	1.33	0.19				20.80	15.03	16.23	2.64	0.38			108.52	1.33	0.89
42		622-96-8	Toluene, 4-ethyl-		4.93	3.00	3.80	0.58					9.77	5.94	7.54	1.14				22.05	0.88	0.81
43		31017-40-0	Cyclohexene, 4-phenyl		7.93	8.30	8.60	7.60	6.06	3.72	2.39		15.72	16.45	17.04	15.06	12.01	7.38	4.73	28.59	0.30	0.68
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-		3.58	2.30	2.37	0.66	0.14				7.09	4.57	4.70	1.30	0.28			20.00	1.00	0.88
46		95-63-6	Benzene, 1,2,4-trimethyl-		7.83	5.26	5.98	1.17	0.24				15.52	10.43	11.84	2.33	0.47			57.03	1.13	0.89
47		95-47-6	Benzene, 1,2-dimethyl-		7.51	3.26	2.58	0.50		0.06	0.13		14.89	6.45	5.10	0.99		0.12	0.26	29.22	1.13	0.94
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-		10.22	4.07	3.18	0.78	0.25	0.22	0.63		20.25	8.07	6.30	1.54	0.49	0.44	1.25	20.27	0.80	0.82
50		98-82-8	Benzene, isopropyl		11.11	5.89	5.81	1.13	0.27				22.01	11.67	11.51	2.25	0.53			59.76	1.13	0.92
51		103-65-1	Benzene, propyl-		10.01	6.04	7.19	1.10	0.19				19.84	11.96	14.24	2.17	0.38			82.04	1.28	0.89
52		100-41-4	Ethylbenzene	0.04	21.05	8.44	7.30	0.84	0.17	0.08	0.20	0.00	41.64	16.65	14.39	1.58	0.26	0.08	0.32	131.68	1.51	0.90
53		91-20-3	Naphthalene		146.56	135.89	121.00	59.67	21.58	7.49	2.62		290.42	269.27	239.76	118.23	42.76	14.83	5.19	1421.51	1.04	0.84
54		99-87-6	p-Cymene		23.72	17.81	21.26	5.10	0.97	0.21			47.01	35.29	42.12	10.11	1.91	0.42		310.58	1.36	0.86
55		100-42-5	Styrene		327.12	152.97	116.84	7.72	0.79	0.19			648.21	303.12	231.53	15.30	1.56	0.38		6367.81	2.14	0.95
56		108-88-3	Toluene	0.26	32.82	14.34	11.63	1.41	0.46	0.35	0.56	0.00	64.52	27.90	22.53	2.28	0.39	0.18	0.59	190.78	1.46	0.91
57		98-83-9	2-Phenylpropene		10.80	7.32	7.15	1.02					21.41	14.51	14.17	2.02				58.81	1.02	0.90
58		95-13-6	Indene		213.00	138.23	114.00	20.80	3.54	0.59			422.08	273.91	225.90	41.21	7.02	1.17		3058.38	1.64	0.90
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester		0.50								0.98									
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 93 (continued)

#		CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		1.47								2.92									
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene	0.7	2.0		0.6	1.0	0.7	1.0	7.6	0.0	2.7			0.6	0.0	0.7	13.7			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		1.0								1.9									
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-				0.9								1.7							
94		1678-91-7	Cyclohexane, ethyl-		2.1	1.2	3.4						4.2	2.5	6.8							
95		1678-92-8	Cyclohexane, propyl-		1.0								1.9									
96		91-17-8	Decahydronaphthalene		0.8								1.6									
97	Terpenes	80-56-8	alpha-Pinene		66.7	44.3	72.9	20.3	6.4	3.1	1.2		132.1	87.7	144.5	40.3	12.6	6.1	2.5	579.9	1.1	0.9
98		99-86-5	alpha-Terpinene		13.5	7.4	14.6	3.4					26.8	14.7	28.9	6.8				36.8	0.5	0.5
99		127-91-3	beta-Pinene		80.2	51.2	73.5	26.3	9.3	4.8	2.1		158.9	101.5	145.7	52.1	18.4	9.6	4.2	517.5	0.9	0.9
100		99-85-4	gamma-Terpinene		2.4	2.2	2.8	0.7					4.8	4.3	5.5	1.4				10.9	0.6	0.8
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene		6.3	5.1	6.3						12.6	10.2	12.6							
103		5989-27-5	Limonene		12.7	11.1	16.9	2.9	0.7	0.4			25.3	22.0	33.5	5.8	1.5	0.8		141.3	1.1	0.9
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane		5.0								9.9									
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		2.1	1.2	1.1						4.2	2.5	2.3							
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#		CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		40.2	6.6	1.3	3.2			0.5		79.6	13.2	2.5	6.4			1.0	17.81	0.56	0.55

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 94: Micro-scale chamber concentration and emission factor for ADH11_m (adhesive; water-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol		12.65	1.42	2.47						23.71	2.67	4.64							
5		64-17-5	Ethanol																			
6		108-95-2	Phenol		2.63			3.93					4.94			7.38						
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.62	0.54			2.72	0.98	1.72	0.84	0.00				3.94	0.67	2.05	0.40	183.72	1.26	0.54
9		98-86-2	Acetophenone	0.56	0.95	0.37	1.10		0.31	0.98		0.00	0.73		1.01			0.78				
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	0.53	1.35	0.88	1.25	1.24	0.64	0.74	0.46	0.00	1.55	0.66	1.35	1.34	0.22	0.40		1.61	0.33	0.31
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane																			
29		112-40-3	Dodecane																			
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane																			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-																			
42		622-96-8	Toluene, 4-ethyl-																			
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene																			
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-				0.31								0.58							
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-	0.21	0.40	0.29	0.91	0.50	0.34	0.24		0.00	0.37	0.15	1.31	0.55	0.24	0.07		0.76	0.35	0.17
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene	0.06	0.17		0.29	0.19	0.10	0.10		0.00	0.21		0.43	0.25	0.07	0.07		2.06	0.80	0.89
53		91-20-3	Naphthalene		0.29	0.18	0.22	0.18					0.55	0.34	0.41	0.34				0.38	0.02	0.04
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene				0.29	0.29		0.16					0.54	0.54		0.29		0.93	0.24	0.70
56		108-88-3	Toluene	0.26	0.65	0.35	1.08	1.05	0.47	0.48	0.19	0.00	0.74	0.17	1.55	1.50	0.40	0.41				
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB			0.84								1.58								

Table A. 94 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
68	Glycols, Glycol Ethers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene			0.42	6.96	12.29	3.20	0.88	0.72			0.79	13.04	23.05	6.00	1.66	1.35	4.50	0.05	0.00
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.2 h	3.7 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	0 h	2.2 h	3.7 h	6.6 h	24.6 h	49.2 h	73.2 h	97.2 h	a	b	R^2
124	PFPH	107-02-8	Acrolein	0.3	34.4	83.7	67.6	0.2	0.0		0.0		63.9	156.4	126.1							

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 95: Micro-scale chamber concentration and emission factor for CAK1a_m (caulking; acrylic latex & silicone)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		259.8								503.8									
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		2045.9		271.7	97.3	78.2	157.5	106.8		3968.1		527.1	188.8	151.7	305.4	207.2	689.7	0.29	0.42
4		67-63-0	2-Propanol		11.7								22.8									
5		64-17-5	Ethanol		1302.5	223.7	1.6			1.3			2526.2	433.8	3.0			2.5		267.1	1.21	0.48
6		108-95-2	Phenol	6.8						10.9	13.8	0.0						8.0	13.6			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		5.9								11.5									
8		67-64-1	Acetone		382.4	68.9	3.1	0.9	0.6	3.1	1.3		741.6	133.7	6.1	1.8	1.2	6.1	2.5	89.0	0.89	0.55
9		98-86-2	Acetophenone	2.0						1.1	1.6	0.0										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		18.9								36.6									
12		100-52-7	Benzaldehyde																			
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		7759.4	20861.9	1402.7	509.5	404.0	834.0	518.2		15049.7	40462.4	2720.6	988.2	783.5	1617.5	1005.0	33673.4	0.86	0.67
29		112-40-3	Dodecane		669.8	1236.4	160.8	49.3	43.3	91.5	67.8		1299.0	2398.0	311.9	95.6	84.1	177.5	131.5	2146.8	0.72	0.65
30		142-82-5	Heptane		1.7								3.2									
31		544-76-3	Hexadecane		3.1		1.1	0.9	1.5	4.6	4.4		6.0		2.1	1.8	2.8	8.9	8.6			
32		110-54-3	Hexane				0.2								0.5							
33		111-84-2	Nonane		3147.6	5081.5	497.0	132.3	96.6	186.4	105.8		6104.9	9855.8	963.9	256.6	187.4	361.5	205.2	11081.2	0.95	0.77
34		111-65-9	Octane		255.1	293.9	49.3	9.6	5.7	10.5	5.2		494.7	570.1	95.6	18.6	11.1	20.4	10.1	959.1	1.04	0.87
35		629-62-9	Pentadecane		3.6		1.1	0.8	1.2	3.0	3.0		7.1		2.1	1.5	2.3	5.9	5.8			
36		629-59-4	Tetradecane		3.8		1.2	0.8	0.8	2.2	1.8		7.3		2.3	1.5	1.6	4.3	3.6			
37		629-50-5	Tridecane		19.9	35.7	6.0	2.4	2.2	5.1	3.6		38.6	69.3	11.7	4.6	4.3	9.9	7.0	55.0	0.54	0.55
38		1120-21-4	Undecane		4210.6	13743.8	806.3	264.8	227.1	480.4	338.2		8166.6	26656.6	1563.9	513.6	440.4	931.7	655.9	20552.4	0.87	0.64
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		9.9	14.3	1.5	0.4	0.3	0.6	0.4		19.2	27.8	3.0	0.8	0.5	1.2	0.8	29.6	0.9	0.7
40		611-14-3	Toluene, 2-ethyl-		2.6	4.4	0.3	0.1		0.2			5.0	8.5	0.5	0.2		0.3		8.3	1.0	0.6
41		620-14-4	Toluene, 3-ethyl-		3.3		0.4	0.1	0.1	0.1	0.1		6.4		0.9	0.2	0.2	0.2	0.2	1.6	0.5	0.7
42		622-96-8	Toluene, 4-ethyl-		2.3		0.2	0.1					4.5		0.5	0.1						
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	4.7	8.5	142.9	0.8	0.9	0.7	2.7	3.0	0.0	7.4	268.0								
45		526-73-8	Benzene, 1,2,3-trimethyl-		17.9	19.2	2.0	0.5	0.3	0.7	0.4		34.8	37.2	3.8	0.9	0.7	1.3	0.8	43.1	1.0	0.8
46		95-63-6	Benzene, 1,2,4-trimethyl-		38.8	35.9	4.2	1.0	0.7	1.3	0.6		75.2	69.7	8.2	2.0	1.3	2.4	1.2	93.5	1.0	0.8
47		95-47-6	Benzene, 1,2-dimethyl-		5.7		0.6	0.1	0.1	0.3	0.2		11.1		1.1	0.3	0.2	0.5	0.4	1.4	0.3	0.3
48		108-67-8	Benzene, 1,3,5-trimethyl-		10.9	11.9	1.1	0.3	0.2	0.4	0.3		21.2	23.1	2.2	0.6	0.4	0.7	0.5	26.0	1.0	0.8
49		108-38-3	Benzene, 1,3-dimethyl-		22.2		2.1	0.5	0.2	0.7			43.1		4.1	1.0	0.4	1.3		10.6	0.7	0.6
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene		7.6		0.9	0.2		0.5	0.3		14.8		1.7	0.4		0.9	0.6	2.0	0.3	0.3
53		91-20-3	Naphthalene		0.6		0.1	0.1	0.0	0.1			1.1		0.1	0.1	0.1	0.2		0.1	0.0	0.0
54		99-87-6	p-Cymene					0.1	0.1	0.1						0.2	0.1	0.2				
55		100-42-5	Styrene					0.1		0.5						0.3		1.0				
56		108-88-3	Toluene	0.2	5.6		2.3	0.3	0.1	1.1	0.6	0.0	10.4		4.1	0.2		1.8	0.8	4.0	0.4	0.2
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		171.1		1.1						331.8		2.1							
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		173.2		24.9	8.2	6.8	14.6	10.7		335.9		48.4	15.9	13.2	28.3	20.8	58.0	0.3	0.3
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		51556.5	31202.2	11611.7	9468.1	11017.7	33006.9	30661.9		99995.8	60517.9	22521.4	18363.8	21369.3	64018.2	59469.9			
67		6846-50-0	TXIB	0.5	24.5		9.8	8.5	16.0	50.8	47.9	0.0	46.6		18.1	15.6	30.1	97.6	92.1			

Table A. 95 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		2636.08	703.53	12.40	5.36	3.2	4.1	2.1		5112.8	1364.5	24.0	10.4	6.2	8.0	4.1	1284.6	1.3	0.8
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene				4.75								9.21							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		6.04		0.65	0.22	0.18	0.35			11.71		1.26	0.43	0.35	0.67		1.91	0.35	0.47
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		1951.55	3079.76	339.08	84.80	75.16	161.75	108.93		3785.12	5973.31	657.66	164.47	145.78	313.72	211.28	5706.34	0.83	0.69
94		1678-91-7	Cyclohexane, ethyl-		366.34	470.33	47.17	14.43	11.23	23.00	15.16		710.53	912.22	91.48	27.98	21.78	44.61	29.40	874.70	0.84	0.71
95		1678-92-8	Cyclohexane, propyl-		1304.58	1907.92	194.51	55.24	44.13	96.04	61.94		2530.28	3700.49	377.26	107.14	85.59	186.27	120.14	3531.38	0.84	0.70
96		91-17-8	Decahydronaphthalene		1037.19	1437.68	135.91	41.78	35.11	85.01	61.63		2011.67	2788.44	263.60	81.03	68.10	164.88	119.53	2267.12	0.76	0.62
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane							2.67								5.18				
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide							3.54	2.97							6.86	5.76			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	72.7 h	96.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	72.7 h	96.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFR	107-02-8	Acrolein																			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 96: Micro-scale chamber concentration and emission factor forCAK2a_m (caulking; silicone & polyurethane)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		1190.96	404.95	16.14	1.38					2396.1	814.71	32.48	2.77				8145.94	2.60	0.93
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		2956.38	2768.89	537.94	198.67	191.08	357.76	221.60		5947.9	5570.67	1082.27	399.70	384.44	719.76	445.83	5312.30	0.60	0.67
4		67-63-0	2-Propanol		99.98	14.56	1.09						201.14	29.29	2.19							
5		64-17-5	Ethanol		8111.09	825.91	22.01	0.84	0.75	2.24	1.86		16318.5	1661.64	44.29	1.69	1.51	4.51	3.74	2095.89	1.64	0.73
6		108-95-2	Phenol				5.01	2.51	3.02	10.50	21.13				10.07	5.06	6.07	21.13	42.50			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	2.54	2265.17	215.34	11.42	0.71	0.69	1.58	1.41	0.00	4552.15	428.12	17.87							
9		98-86-2	Acetophenone	4.59			1.91	0.41	0.35	1.18	1.90	0.00										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		10.78	4.81	0.62						21.68	9.69	1.25							
12		100-52-7	Benzaldehyde		11.67	10.57	2.22	0.73	0.59	1.88	2.72		23.47	21.26	4.47	1.47	1.19	3.78	5.46	14.34	0.42	0.32
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		526.74	541.49	136.52	18.64	10.44	12.78	5.89		1059.74	1089.40	274.66	37.50	21.01	25.71	11.84	2966.85	1.22	0.96
29		112-40-3	Dodecane		33.98	39.55	11.66	1.86	1.20	1.62	0.77		68.36	79.58	23.46	3.74	2.41	3.26	1.56	182.51	1.06	0.94
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane			0.63	0.38	0.24	0.41	1.40	1.89			1.27	0.77	0.48	0.82	2.81	3.81			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		140.37	156.06	36.62	4.22	2.39	2.92	1.08		282.41	313.98	73.68	8.50	4.80	5.87	2.17	959.39	1.32	0.96
34		111-65-9	Octane		26.48	22.65	4.70						53.26	45.58	9.45							
35		629-62-9	Pentadecane				0.25		0.14	0.48	0.39				0.50		0.27	0.97	0.79			
36		629-59-4	Tetradecane		1.11	1.30	0.52		0.20		0.52		2.24	2.62	1.05		0.41		1.05	2.55	0.31	0.47
37		629-50-5	Tridecane			1.07	0.40		0.12					2.16	0.80		0.25			3.95	0.74	0.95
38		1120-21-4	Undecane	0.27	243.11	249.04	70.52	10.47	6.23	8.59	3.95	0.00	488.57	500.50	141.34	20.53	12.00	16.75	7.42	1257.31	1.13	0.94
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.45	0.36	0.08						0.90	0.73	0.17							
40		611-14-3	Toluene, 2-ethyl-		0.49	0.40	0.06						0.99	0.81	0.12							
41		620-14-4	Toluene, 3-ethyl-		0.76	0.65	0.11						1.52	1.31	0.21							
42		622-96-8	Toluene, 4-ethyl-		0.56	0.58	0.08						1.12	1.16	0.16							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	5.68	12.71	10.30	1.51	1.10	1.25	2.52	2.97	0.00	14.16	9.30								
45		526-73-8	Benzene, 1,2,3-trimethyl-		0.58	0.46	0.11	0.04					1.16	0.93	0.22	0.07				2.61	1.17	0.93
46		95-63-6	Benzene, 1,2,4-trimethyl-		1.96	1.67	0.27	0.07					3.94	3.36	0.54	0.13				12.43	1.48	0.93
47		95-47-6	Benzene, 1,2-dimethyl-		1.94	1.52	0.28	0.07	0.05	0.13			3.90	3.05	0.57	0.14	0.09	0.26		4.18	0.86	0.72
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.62	0.58	0.11						1.25	1.16	0.23							
49		108-38-3	Benzene, 1,3-dimethyl-		11.87	9.07	1.50	0.29	0.20	0.36	0.33		23.88	18.25	3.02	0.58	0.40	0.73	0.67	23.95	0.92	0.79
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-		0.36								0.72									
52		100-41-4	Ethylbenzene		2.85	2.34	0.39	0.09	0.06	0.13	0.10		5.73	4.71	0.79	0.17	0.12	0.26	0.20	5.64	0.84	0.75
53		91-20-3	Naphthalene		0.29	0.29	0.07	0.04	0.05	0.11	0.07		0.58	0.58	0.14	0.09	0.09	0.22	0.14	0.39	0.27	0.30
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene			0.50	0.17	0.09	0.09	0.29	0.15			1.00	0.35	0.18	0.17	0.59	0.30	0.73	0.23	0.23
56		108-88-3	Toluene		7.06	5.31	0.79	0.21	0.17	1.71	0.51		14.20	10.69	1.60	0.42	0.34	3.44	1.03	6.64	0.49	0.28
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester			7.88	1.58							15.86	3.18							
62		141-78-6	Acetic acid, ethyl ester		1199.84		17.85	0.79					2413.94		35.90	1.59						
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		428.46	391.33	76.63	22.40	21.14	38.33	25.61		862.00	787.31	154.16	45.07	42.54	77.12	51.53	830.44	0.68	0.72
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		407.26	674.63	297.19	261.17	446.47	1293.85	1210.91		819.36	1357.27	597.91	525.45	898.24	2603.08	2436.20			
67		6846-50-0	TXIB			1.07	0.48	0.43	0.82	3.37	4.03			2.16	0.96	0.87	1.65	6.78	8.12			

Table A. 96 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		13800	1810.18	72.07	10.09	7.28	9.83	4.83		27763	3641.86	144.99	20.30	14.64	19.77	9.72	5648.8	1.47	0.84
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene		0.3								0.5									
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.8								1.6									
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene																			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		1.2								2.4									
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		98.0	77.8	19.7	3.6	2.8	4.1	2.4		197.1	156.6	39.7	7.3	5.6	8.3	4.8	271.1	0.9	0.9
94		1678-91-7	Cyclohexane, ethyl-		22.3	16.1	3.4	0.7	0.5	0.8	0.5		44.8	32.4	6.8	1.4	0.9	1.5	0.9	52.4	0.9	0.9
95		1678-92-8	Cyclohexane, propyl-		60.3	58.7	12.8	2.2	1.7	2.4	1.5		121.4	118.1	25.8	4.4	3.4	4.9	3.1	202.3	1.0	0.9
96		91-17-8	Decahydronaphthalene		37.9	33.8	7.5	1.5	1.2	2.5	1.6		76.2	67.9	15.2	3.0	2.5	5.1	3.3	88.0	0.8	0.8
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid				16.7	17.8	22.4	47.4	71.2				33.6	35.8	45.2	95.4	143.3			
105		79-31-2	Isobutyric acid						0.6		1.5						1.3		3.0			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane					0.7	0.8	4.2	5.2					1.3	1.6	8.4	10.5			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		106.0	73.1	11.7	1.9	1.0	1.2	0.5		213.3	147.1	23.6	3.8	2.0	2.4	1.0	367.7	1.3	0.9
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide				0.9	1.3	2.5	11.4	6.2				1.8	2.6	5.0	22.9	12.5			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	72.7 h	96.7 h	0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	72.7 h	96.7 h	a	b	R^2
124	PFPH	107-02-8	Acrolein						1.9	4.5	6.0						3.9	9.1	12.1			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 97: Micro-scale chamber concentration and emission factor for CAK5a_m (caulking; silicone)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-						0.79								1.51					
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol		15.86		0.96						30.27		1.84							
6		108-95-2	Phenol		23.92		3.28	2.89	0.77	2.87	3.31		45.65		6.26	5.52	1.47	5.47	6.32	6.53	0.11	0.04
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone		44.10		7.15	1.28	4.56	3.10	1.83		84.16		13.64	2.45	8.70	5.92	3.50	17.51	0.32	0.26
9		98-86-2	Acetophenone		11.65	17.28	2.51	0.64	0.27	0.82	0.51		22.23	32.97	4.79	1.22	0.51	1.56	0.97	43.47	0.94	0.77
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde		5.09		1.31	0.63	0.39	1.12	1.01		9.72		2.49	1.20	0.73	2.14	1.93	2.27	0.11	0.06
13		123-72-8	Butanal		305.74		15.31	1.44	0.32				583.43		29.21	2.76	0.60			850.40	1.85	1.00
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		103.20	73.93	5.29	0.14	0.13				196.94	141.08	10.09	0.27	0.24			1127.16	2.37	0.94
29		112-40-3	Dodecane		35.65	19.92	6.67	2.36	1.34	1.39	0.50		68.04	38.02	12.73	4.50	2.56	2.64	0.95	86.21	0.91	0.95
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane		213.13	102.88	48.34	37.48	61.93	201.74	186.77		406.71	196.32	92.25	71.52	118.18	384.97	356.41			
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane		147.58								281.62									
35		629-62-9	Pentadecane		265.98	147.47	55.45	41.04	76.67	229.07	219.33		507.56	281.41	105.81	78.31	146.30	437.13	418.54			
36		629-59-4	Tetradecane		6.58		1.36	0.95	1.67	4.82	3.84		12.55		2.60	1.80	3.18	9.20	7.33			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		6.23	62.82	0.88	0.13		0.21			11.89	119.88	1.69	0.25		0.41		145.86	1.63	0.68
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-																			
42		622-96-8	Toluene, 4-ethyl-			44.75		0.14						85.39		0.27						
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	4.94	7.07		1.28	0.82	1.89	3.02	2.81	0.00	4.06									
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-		2.79		0.15						5.33		0.28							
47		95-47-6	Benzene, 1,2-dimethyl-		2.75				0.06		0.11		5.25				0.12		0.21			
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-		10.32		0.06	0.03	0.22	0.23	0.38		19.69		0.12	0.06	0.42	0.45	0.73			
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene		2.69		0.05		0.08	0.09	0.13		5.13		0.10		0.15	0.17	0.24			
53		91-20-3	Naphthalene		1.59		0.24		0.04	0.09	0.09		3.03		0.45		0.07	0.17	0.17	0.81	0.43	0.51
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene		1.70		0.18	0.04	0.07	0.20			3.24		0.35	0.08	0.14	0.39		0.26	0.08	0.01
56		108-88-3	Toluene	0.52	173.82	15.86	1.12	0.10	0.81	15.05	0.76	0.00	330.72	29.27	1.15		0.56	27.74	0.47			
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB		60.97		11.87	8.82	15.92	56.23	52.84		116.35		22.66	16.84	30.37	107.31	100.84			

Table A. 97 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.5 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene		2.34								4.47									
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene		1.31								2.50									
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene						0.06								0.12					
89		79-01-6	Trichloroethylene						3.86								7.37					
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		2.82								5.37									
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid		6912.10		455.10	20.93					13190		868.46	39.94						
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		23.71								45.24									
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	72.8 h	96.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	72.8 h	96.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein						3.5	3.5	3.4						6.6	6.6	6.5	7.32	0.03	0.63

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 98: Micro-scale chamber concentration and emission factor for CAK13a_m (caulking; subfloor)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.6 h	2.4 h	6 h	24.1 h	48 h	72.1 h	96.1 h	0 h	1.6 h	2.4 h	6 h	24.1 h	48 h	72.1 h	96.1 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol		935.9	237.7	96.8						1837.2	466.7	190.0							
5		64-17-5	Ethanol		5280.1	5470.4	1764.5	318.7					10364.8	10738.4	3463.7	625.7				31736.3	1.23	1.00
6		108-95-2	Phenol	2.6	135.5							0.0	260.8									
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	1.8	4864.4	1664.2	486.1	63.4				0.0	9545.3	3263.3	950.7	120.9				11865.1	1.43	1.00
9		98-86-2	Acetophenone	0.9	24.2							0.0	45.8									
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.1	113.9							0.0	221.5									
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		4360.4	831.1	288.7	59.0	8.8				8559.5	1631.4	566.7	115.8	17.2			6907.4	1.44	0.96
25		96-14-0	Pentane, 3-methyl-		4499.9	1178.7	462.2	109.8	33.4				8833.4	2313.7	907.3	215.6	65.6			6930.2	1.16	0.99
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane			480.2	281.9							942.7	553.4							
28		124-18-5	Decane		59.5	472.4	196.8	59.7					116.8	927.3	386.4	117.2				1993.1	0.89	1.00
29		112-40-3	Dodecane		11.0	86.9	66.7						21.5	170.6	130.9							
30		142-82-5	Heptane		33088.9	10264.7	3455.9	435.9	89.2	34.4			64953.6	20149.5	6784.0	855.6	175.2	67.5		1.1E+05	1.66	0.98
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		10837.9	3249.3	948.5	83.2					21274.8	6378.5	1861.9	163.3				28535.5	1.60	0.99
33		111-84-2	Nonane		97.0	133.5	50.3						190.4	262.1	98.7							
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane																			
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane		35.9	461.5	171.5	60.9					70.4	905.8	336.7	119.5				1806.9	0.87	0.99
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		38.9	37.4	25.3	5.0	4.9				76.3	73.4	49.7	9.9	9.6			156.7	0.77	0.94
40		611-14-3	Toluene, 2-ethyl-		242.8	156.3	66.1	16.4	7.7	3.7			476.7	306.7	129.7	32.3	15.1	7.2		851.8	1.07	0.99
41		620-14-4	Toluene, 3-ethyl-		626.3	403.4	142.4	27.8	10.2				1229.5	791.8	279.5	54.6	20.0			2408.0	1.22	1.00
42		622-96-8	Toluene, 4-ethyl-		395.5	184.6	76.4	16.2	6.1				776.4	362.3	150.0	31.8	11.9			1058.7	1.13	1.00
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		21.5	206.8		97.0					42.3	405.9		190.5						
45		526-73-8	Benzene, 1,2,3-trimethyl-		261.4	190.6	82.6	21.5	11.2	5.7			513.1	374.1	162.2	42.1	21.9	11.3		954.5	1.00	0.99
46		95-63-6	Benzene, 1,2,4-trimethyl-		914.1	595.9	254.0	41.7	22.9				1794.3	1169.7	498.6	81.8	44.9			3331.0	1.13	0.99
47		95-47-6	Benzene, 1,2-dimethyl-		1164.8	514.5	205.3	39.9	16.4		4.5		2286.6	1010.0	402.9	78.3	32.1		8.8	2964.6	1.15	1.00
48		108-67-8	Benzene, 1,3,5-trimethyl-		242.3	141.5	63.2	17.7	8.2	5.2			475.6	277.9	124.0	34.8	16.2	10.2		684.2	0.97	1.00
49		108-38-3	Benzene, 1,3-dimethyl-	0.2	3418.2	1333.6	488.3	67.8				0.0	6709.6	2617.4	958.2	132.8				8838.0	1.30	0.99
50		98-82-8	Benzene, isopropyl		77.6	31.7							152.4	62.2								
51		103-65-1	Benzene, propyl-		256.6	109.7	42.9	7.8					503.7	215.3	84.3	15.4				618.4	1.15	1.00
52		100-41-4	Ethylbenzene	0.1	987.2	390.7	152.6	19.9	9.0			0.0	1937.8	766.9	299.3	38.9	17.5			2623.2	1.30	1.00
53		91-20-3	Naphthalene		2626.6	1812.9	1422.2	495.3	315.8	161.6	100.3		5156.1	3558.7	2791.8	972.3	620.0	317.3	196.8	9128.2	0.77	0.95
54		99-87-6	p-Cymene		14.6								28.6									
55		100-42-5	Styrene	0.2	666.2	303.7	92.5					0.0	1307.3	595.8	181.1							
56		108-88-3	Toluene	0.5	66443	785297	398344	47175.8	12182.1	5111.7	2281.1	0.0	130427	1.5E+06	781948	92605.3	23912.6	10033.4	4476.9	9.7E+06	1.59	0.98
57		98-83-9	2-Phenylpropene		123.5	61.7							242.4	121.0								
58		95-13-6	Indene		976.9	452.7	230.6	35.9	17.4	10.3			1917.6	888.6	452.7	70.5	34.2	20.3		2818.9	1.14	0.99
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		412.2	88.2							809.2	173.2								
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 98 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.6 h	2.4 h	6 h	24.1 h	48 h	72.1 h	96.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.6 h	2.4 h	6 h	24.1 h	48 h	72.1 h	96.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-		26.37								51.77									
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene			26.4	37.2			23.0				51.8	73.0			45.1		65.6	0.07	0.26
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		5140.3	1494.2	651.9	212.8	89.8	49.8	28.4		10090	2933.2	1279.8	417.8	176.2	97.8	55.7	8271.8	1.03	0.98
92		110-82-7	Cyclohexane		629.9	180.3	80.4	22.2	15.1	6.2			1236.5	353.9	157.8	43.5	29.7	12.1		835.4	0.93	0.98
93		1678-93-9	Cyclohexane, butyl-		7.0	37.4							13.7	73.4								
94		1678-91-7	Cyclohexane, ethyl-		87.1	35.1							171.0	68.9								
95		1678-92-8	Cyclohexane, propyl-		8.6								17.0									
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene		5.9								11.6									
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl		55.8								109.5									
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.8 h	3.3 h	6.4 h	24.4 h	48.4 h	72.7 h	96.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.8 h	3.3 h	6.4 h	24.4 h	48.4 h	72.7 h	96.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFH	107-02-8	Acrolein	1.3	21.3		10.6	16.0	19.7	12.3	8.8		39.4		18.3	29.0	36.2	21.6	14.7	23.60	0.01	0.00

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 99: Micro-scale chamber concentration and emission factor for CAK16a_m (caulking; removable)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	8.28								0.00										
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	6.39								0.00										
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol																			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone																			
9		98-86-2	Acetophenone	1.74								0.00										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.99								0.00										
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane							105.59								205.73				
29		112-40-3	Dodecane	0.41								0.00										
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane																			
33		111-84-2	Nonane																			
34		111-65-9	Octane		19.40								37.79									
35		629-62-9	Pentadecane	7.47								0.00										
36		629-59-4	Tetradecane	23.44								0.00										
37		629-50-5	Tridecane	1.07								0.00										
38		1120-21-4	Undecane	0.36								0.00										
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramet			17.5	13.1	3.8	1.7					34.1	25.6	7.4	3.2			101.4	0.9	1.0
40		611-14-3	Toluene, 2-ethyl-	0.06	88.0	61.8	41.9					0.0	171.3	120.2	81.5							
41		620-14-4	Toluene, 3-ethyl-		3357.4	2537.0	1572.9	21.5					6541.3	4942.9	3064.6	41.8				1.1E+05	2.4	0.9
42		622-96-8	Toluene, 4-ethyl-		816.2	650.2	428.9	6.6					1590.2	1266.8	835.7	12.9				26093.4	2.3	0.9
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	2.09		81.4						0.0		154.5								
45		526-73-8	Benzene, 1,2,3-trimethyl-		31.5	25.7	20.2						61.3	50.1	39.4							
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.29	68.9	50.8	58.3			3.4		0.0	133.8	98.4	113.0			6.0		400.6	1.0	0.9
47		95-47-6	Benzene, 1,2-dimethyl-	0.91	1.7E+05	1.2E+05	85011.0	116.3	15.2	12.4		0.0	326695	2.4E+05	1.7E+05	224.9	27.8	22.3		1.8E+07	3.3	1.0
48		108-67-8	Benzene, 1,3,5-trimethyl-		125.8	92.8	75.1						245.1	180.9	146.3							
49		108-38-3	Benzene, 1,3-dimethyl-	4.04	2.8E+05	2.0E+05	1.2E+05	171.3	33.1	32.2	9.0	0.0	543472	3.9E+05	2.3E+05	325.8	56.6	55.0	9.6	2.3E+07	3.2	1.0
50		98-82-8	Benzene, isopropyl		19681.3	12718.2	5313.1	13.8					38345.7	24779.4	10351.6	27.0				1.9E+06	3.4	1.0
51		103-65-1	Benzene, propyl-		3587.2	2605.2	1397.4	12.4					6989.2	5075.8	2722.6	24.2				1.6E+05	2.7	0.9
52		100-41-4	Ethylbenzene	1.05	1.4E+05	9.3E+04	58333.5	21.1	6.1	6.7	1.9	0.0	274200	1.8E+05	1.1E+05	39.0	9.8	11.0	1.7	1.5E+07	3.5	1.0
53		91-20-3	Naphthalene	0.71								0.0										
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.28								0.0										
56		108-88-3	Toluene	0.97	8851.6	1305.3	28.2					0.0	17244.0	2541.4	53.0							
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB							166.0								323.4				

Table A. 99 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene																			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane		52.88								103.03									
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-		651.56	289.46	54.16						1269.47	563.97	105.52							
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene	1.15								0.00										
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	1.2	14.8			5.5	4.1	4.6	3.0		26.6			8.3	5.7	6.7	3.4	45.02	0.52	0.67

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 100: Micro-scale chamber concentration and emission factor for CAK24a_m (caulking; acoustical)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	3.09								0.00										
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	5.20								0.00										
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol						6.14	2.10	1.68						11.72	4.00	3.21	18249.2	1.92	0.93
6		108-95-2	Phenol	2.52								0.00										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone						0.82								1.56					
9		98-86-2	Acetophenone	1.21								0.00										
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.55								0.00										
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		128444	99103.9	68031.6	6046.8	448.9	35.6	3.6		245104	189116	129822	11538.9	856.5	67.8	6.8	1.4E+07	2.79	0.89
29		112-40-3	Dodecane	0.3	1387.2	1470.7	1283.5	945.1	704.4	425.2	216.0	0.0	2646.6	2805.9	2448.7	1803.0	1343.6	810.8	411.6	5712.3	0.46	0.80
30		142-82-5	Heptane		85.5								163.1									
31		544-76-3	Hexadecane	0.6					2.2	2.7	2.4	0.0					3.2	3.9	3.5			
32		110-54-3	Hexane																			
33		111-84-2	Nonane		110259	65848.5	29358.8	568.4	27.8	2.3	0.3		210402	125656	56024.1	1084.6	53.1	4.4	0.6	1.8E+07	3.49	0.95
34		111-65-9	Octane		7010.2	3269.2	866.0		0.4				13377.2	6238.5	1652.6		0.8			3.8E+05	3.32	0.99
35		629-62-9	Pentadecane	9.7					7.8	7.7	6.0	0.0										
36		629-59-4	Tetradecane	16.7					13.2	9.6	10.0	0.0										
37		629-50-5	Tridecane	0.4					28.4	20.9	16.7	0.0					53.3	38.9	30.9	1115.8	0.79	1.00
38		1120-21-4	Undecane	0.3	52712.0	51383.7	40637.1	15664.4	2118.5	689.0	160.8	0.0	100588	98052.8	77545.5	29891.1	4042.1	1314.2	306.3	1.1E+06	1.56	0.87
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetrame		1898.7	1673.0	1307.4	507.0	146.7	37.4	9.9		3623.1	3192.4	2494.8	967.5	279.9	71.4	18.8	26020.0	1.35	0.86
40		611-14-3	Toluene, 2-ethyl-		3778.8	2365.3	1312.4	73.3	5.5	0.6	0.1		7211.0	4513.6	2504.4	139.8	10.5	1.2	0.2	2.7E+05	2.81	0.94
41		620-14-4	Toluene, 3-ethyl-	0.1	15517.6	9084.6	4585.1	126.3	5.8	0.5	0.2	0.0	29611.4	17335.7	8749.4	240.8	10.9	0.9	0.2	1.9E+06	3.29	0.95
42		622-96-8	Toluene, 4-ethyl-	0.1	5157.7	3025.2	1510.3	40.7	2.3	0.3		0.0	9842.1	5772.8	2881.8	77.6	4.2	0.3		3.7E+05	3.00	0.95
43		31017-40-0	Cyclohexene, 4-phenyl		10.6				8.6	6.1	4.4		20.1				16.3	11.6	8.4	653.3	0.95	0.99
44		71-43-2	Benzene	2.4					2.5	1.9	1.4	0.0					0.1					
45		526-73-8	Benzene, 1,2,3-trimethyl-		9538.9	6709.9	4428.2	410.9	46.1	5.5	1.0		18202.7	12804.3	8450.2	784.1	88.0	10.5	2.0	5.0E+05	2.45	0.92
46		95-63-6	Benzene, 1,2,4-trimethyl-		43974.6	28851.0	17349.0	981.1	76.3	7.5	1.3		83914.9	55055.0	33106.2	1872.1	145.5	14.3	2.6	3.5E+06	2.82	0.93
47		95-47-6	Benzene, 1,2-dimethyl-	0.6	8198.2	4092.2	1502.3	34.3	2.1	0.3	0.1	0.0	15643.1	7807.9	2865.7	64.3	3.0			2.9E+05	2.83	0.97
48		108-67-8	Benzene, 1,3,5-trimethyl-		20037.0	12663.9	7153.7	384.0	31.2	3.1	0.6		38235.7	24165.9	13651.1	732.8	59.5	5.9	1.2	1.5E+06	2.82	0.94
49		108-38-3	Benzene, 1,3-dimethyl-	2.4	18825.2	8441.6	2684.2	29.2	2.4	0.5	0.4	0.0	35918.9	16104.2	5117.5	51.2				5.3E+05	2.86	0.98
50		98-82-8	Benzene, isopropyl		1600.9	854.7	355.2	10.9	0.8	0.1			3055.0	1631.1	677.8	20.8	1.6	0.2		70561.5	2.82	0.97
51		103-65-1	Benzene, propyl-		3685.7	2127.2	976.5	26.0	1.3				7033.3	4059.2	1863.3	49.7	2.4			1.4E+05	2.67	0.96
52		100-41-4	Ethylbenzene	0.7	1641.4	711.7	205.1	2.9	0.3		0.1	0.0	3130.9	1356.9	390.1	4.3						
53		91-20-3	Naphthalene	0.5	174.0	149.0	125.8	60.8	29.2	9.9	3.2	0.0	331.2	283.4	239.2	115.2	54.8	18.0	5.3	1389.3	1.01	0.82
54		99-87-6	p-Cymene		1559.9	1086.1	712.7	67.6	6.8	0.8	0.1		2976.8	2072.6	1359.9	129.0	12.9	1.4	0.2	91003.1	2.52	0.91
55		100-42-5	Styrene	0.3								0.0										
56		108-88-3	Toluene	0.7	796.2	293.6	66.7		0.3	1.0	0.2	0.0	1518.0	558.9	125.9			0.4		7104.2	2.27	1.00
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethy																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 100 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene																			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		579.7	274.2	98.8		0.4				1106.2	523.2	188.5		0.7			10646.0	2.46	0.99
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-		15193.4	12237.5	8331.9	1173.0	164.8	23.4	4.0		28992.9	23352.3	15899.4	2238.4	314.4	44.7	7.7	6.4E+05	2.19	0.90
94		1678-91-7	Cyclohexane, ethyl-		9123.0	4640.5	1753.1	69.1	5.6	0.7			17409.0	8855.3	3345.4	131.9	10.6	1.3		3.2E+05	2.71	0.97
95		1678-92-8	Cyclohexane, propyl-		23744.7	14556.9	7112.3	338.5	29.1	3.2	0.9		45310.9	27778.4	13572.0	645.9	55.5	6.2	1.8	1.4E+06	2.79	0.96
96		91-17-8	Decahydronaphthalene		6532.6	5177.2	3679.2	708.9	152.9	29.8	6.3		12465.8	9879.4	7020.9	1352.8	291.7	56.8	11.9	1.5E+05	1.81	0.90
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene	0.9								0.0										
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFR	107-02-8	Acrolein				20.0	0.9	0.4	0.4	0.3				38.2	1.8	0.7	0.8	0.6	493.54	1.56	0.92

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 101: Micro-scale chamber concentration and emission factor for CAK31_m (caulking; subfloor; green)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72.6 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72.6 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		362.55	17.90							712.76	35.19								
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-		1371.39	751.57	52.37	1.90	3.21	8.96	8.46		2696.07	1477.53	102.96	3.73	6.32	17.62	16.63	1606.72	1.25	0.63
4		67-63-0	2-Propanol		57.90	2.71	0.40						113.82	5.33	0.79							
5		64-17-5	Ethanol		269.92	5.62	0.42						530.64	11.05	0.83							
6		108-95-2	Phenol		14.04		3.36	1.08	1.19	11.47	12.34		27.61		6.60	2.12	2.35	22.55	24.26			
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	1.89	37.56	10.61	4.22	0.39	0.32	0.88		0.00	70.13	17.15	4.59							
9		98-86-2	Acetophenone		23.06	14.46	3.96	0.40	0.39	1.54	1.58		45.34	28.43	7.78	0.79	0.77	3.02	3.11	29.33	0.70	0.50
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone		7.45								14.65									
12		100-52-7	Benzaldehyde		26.74	11.98	2.05	0.62	0.62	2.17	2.65		52.58	23.54	4.03	1.22	1.21	4.27	5.20	14.13	0.42	0.28
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane			3.56	0.96	0.25	0.25	0.72	0.50			7.01	1.89	0.49	0.48	1.41	0.99	6.32	0.51	0.51
29		112-40-3	Dodecane				0.20								0.40							
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane		4.20	3.93	0.67	0.39	0.57	1.13	1.05		8.26	7.73	1.31	0.76	1.12	2.21	2.06	4.09	0.25	0.19
32		110-54-3	Hexane																			
33		111-84-2	Nonane			2.69	0.52	0.16	0.22	0.59	0.43			5.29	1.02	0.32	0.44	1.17	0.85	3.57	0.42	0.36
34		111-65-9	Octane																			
35		629-62-9	Pentadecane		4.70	3.58	0.86	0.26	0.29				9.25	7.05	1.69	0.51	0.57			12.91	0.90	0.86
36		629-59-4	Tetradecane				0.14		0.16						0.27		0.31					
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane				0.37	0.13			0.19				0.72	0.26			0.38	0.85	0.23	0.37
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		1.02	0.57							2.01	1.12								
40		611-14-3	Toluene, 2-ethyl-		95.57	49.76	2.81	0.55	0.87	2.31	2.04		187.88	97.82	5.52	1.07	1.71	4.55	4.01	55.45	0.76	0.45
41		620-14-4	Toluene, 3-ethyl-		230.08	120.37	7.62	1.60	2.49	6.61	5.71		452.33	236.63	14.99	3.14	4.89	12.99	11.23	135.54	0.72	0.45
42		622-96-8	Toluene, 4-ethyl-		157.46	86.07	6.02	1.28	2.06	4.61	3.96		309.56	169.21	11.83	2.51	4.05	9.06	7.78	104.99	0.73	0.48
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	4.95	11.11	9.94	1.88	0.90	0.65	3.03	2.80	0.00	12.11	9.80								
45		526-73-8	Benzene, 1,2,3-trimethyl-		53.31	28.78	1.53	0.25	0.42	1.12	0.95		104.80	56.58	3.01	0.49	0.83	2.19	1.88	33.45	0.82	0.48
46		95-63-6	Benzene, 1,2,4-trimethyl-		411.27	226.42	13.35	2.53	4.02	10.46	9.26		808.53	445.12	26.24	4.98	7.90	20.56	18.21	260.10	0.77	0.46
47		95-47-6	Benzene, 1,2-dimethyl-		24.13	9.88	0.64	0.11	0.18	0.51	0.45		47.44	19.42	1.26	0.22	0.35	1.01	0.89	11.33	0.75	0.45
48		108-67-8	Benzene, 1,3,5-trimethyl-		113.18	59.76	3.35	0.62	1.01	2.53	2.30		222.50	117.48	6.59	1.22	1.98	4.97	4.52	68.57	0.78	0.47
49		108-38-3	Benzene, 1,3-dimethyl-		9.59	4.46	0.46	0.07	0.15	0.56	0.43		18.85	8.77	0.90	0.14	0.30	1.11	0.85	4.60	0.55	0.30
50		98-82-8	Benzene, isopropyl		12.18	5.74	0.40	0.09	0.14	0.36	0.28		23.94	11.29	0.79	0.17	0.28	0.70	0.54	6.69	0.70	0.45
51		103-65-1	Benzene, propyl-		76.89	40.41	3.05	0.72	1.07	2.68	2.27		151.16	79.44	6.00	1.42	2.10	5.27	4.46	47.63	0.68	0.45
52		100-41-4	Ethylbenzene		1.98	0.90	0.14	0.04	0.05	0.19	0.13		3.89	1.76	0.28	0.07	0.11	0.38	0.26	1.06	0.44	0.30
53		91-20-3	Naphthalene		0.45	0.37	0.06		0.03				0.89	0.72	0.13		0.06			1.02	0.78	0.76
54		99-87-6	p-Cymene		1.16	0.67	0.06		0.02	0.07	0.07		2.28	1.32	0.13		0.03	0.14	0.14	0.92	0.56	0.43
55		100-42-5	Styrene				0.18	0.29	0.10	0.24	0.22				0.36	0.57	0.20	0.46	0.42	0.38	0.00	0.00
56		108-88-3	Toluene	0.48	20.43	3.12	2.85	0.17	1.46	0.83	0.51	0.00	39.22	5.19	4.66		1.93	0.69	0.07	21.75	0.93	0.68
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene		0.48								0.94									
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester		155.60	45.97							305.90	90.37								
62		141-78-6	Acetic acid, ethyl ester		356.58	18.33	0.64						701.01	36.04	1.26							
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate		4.52	1.63							8.89	3.20								
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol		34867	29119	4968.03	861.56	1164.88	2859.66	2395.79		68545.5	57245.9	9766.81	1693.77	2290.07	5621.91	4709.97	48350.1	0.65	0.53
67		6846-50-0	TXIB		36.79	29.21	4.65	0.87	1.45	4.70	3.10		72.32	57.42	9.14	1.70	2.86	9.24	6.09	38.55	0.53	0.38

Table A. 101 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.6 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72.6 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol				246.77	41.52	67.31	165.18	136.98				485.13	81.63	132.33	324.74	269.30	355.05	0.14	0.05
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		194.16	1.75							381.71	3.44								
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene				3.00								5.90							
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-		1.16	0.71							2.28	1.40								
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene			1.16								2.28								
104	Acids	64-19-7	Acetic acid				175.64	10.63	14.53	43.95	46.39				345.30	20.90	28.56	86.41	91.20	346.90	0.45	0.20
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		124.88	57.11	3.28	0.46	0.78	2.09	1.87		245.51	112.27	6.46	0.90	1.54	4.11	3.67	70.02	0.84	0.49
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide				1.81		4.37	13.12	15.68				3.57		8.60	25.79	30.83			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.7 h	72.8 h	96.7 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.7 h	24.6 h	48.7 h	72.8 h	96.7 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPI	107-02-8	Acrolein		2.4	0.9	1.4		1.6	4.4	3.8		4.6	1.9	2.7		3.2	8.7	7.6			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 102: Micro-scale chamber concentration and emission factor for CAK36_m (caulking; all purpose)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol	4.4	13065	612.4						0.0	26315	1225.1								
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	5.5								0.0										
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol					19.5	7.9	6.0	4.4					39.3	16.0	12.0	8.9	1074.5	1.06	0.98
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone						1.4	0.8							2.9	1.7				
9		98-86-2	Acetophenone	0.5				3.0	1.3	1.2	1.3	0.0				5.0	1.5	1.5	1.5	69.8	0.89	0.79
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.1	962.5	635.0		26.2	17.2	12.3	7.9	0.0	1937.1	1277.3		50.7	32.5	22.6	13.7	4559.9	1.28	0.98
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane					3.8	1.8	1.3	0.9					7.6	3.7	2.7	1.8	201.9	1.03	0.99
29		112-40-3	Dodecane					26.8	17.6	12.0	8.8					54.0	35.4	24.2	17.7	709.2	0.80	0.98
30		142-82-5	Heptane																			
31		544-76-3	Hexadecane	0.3								0.0										
32		110-54-3	Hexane																			
33		111-84-2	Nonane				54.4								109.7							
34		111-65-9	Octane						0.3								0.6					
35		629-62-9	Pentadecane	8.2				3.0	2.1	1.8		0.0										
36		629-59-4	Tetradecane	18.5								0.0										
37		629-50-5	Tridecane	0.6				18.4	13.1	9.1	6.4	0.0				35.9	25.2	17.0	11.7	471.4	0.79	0.95
38		1120-21-4	Undecane						14.1	3.3	2.0						28.3	6.7	4.0	1.7E+06	2.87	0.97
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetrame																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-																			
42		622-96-8	Toluene, 4-ethyl-																			
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	2.1	102.4	84.4		4.5	2.1	1.8	2.5	0.0	202.1	165.9		4.9	0.0		0.8	1385.0	2.18	0.57
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.2			9.6					0.0			19.0							
47		95-47-6	Benzene, 1,2-dimethyl-	0.4	397.2	293.9	200.3	0.5	1.1	0.2	0.3	0.0	799.4	591.3	402.7	0.3	1.4			18229.5	2.79	0.82
48		108-67-8	Benzene, 1,3,5-trimethyl-																			
49		108-38-3	Benzene, 1,3-dimethyl-	1.5	1641.8	1068.7	633.0	1.6	3.9	0.6	1.2	0.0	3304.9	2150.2	1272.4	0.3	4.9			70614.5	2.95	0.75
50		98-82-8	Benzene, isopropyl			3.8								7.6								
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene	0.4	358.3	214.9	120.9	21.3	13.8	8.8	6.1	0.0	721.1	432.2	242.8	42.1	27.1	16.9	11.5	1428.3	1.05	0.99
53		91-20-3	Naphthalene	0.3								0.0										
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.1				0.4	0.2	0.2		0.0				0.4	0.2	0.2		3.8	0.70	0.79
56		108-88-3	Toluene	0.7				3.2	0.5	0.4	0.3	0.0				5.2						
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethy																			
60		111-15-9	Acetic acid, 2-ethoxyethyl																			
61		123-86-4	Acetic acid, butyl ester		1196.8	459.8	59.5	40.4	30.0	20.0	13.7		2411.4	926.5	119.8	81.3	60.5	40.2	27.5	1192.5	0.82	0.85
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB																			

Table A. 102 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoet																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		774.2	40.1			0.2				1559.9	80.8			0.4					
77		5131-66-8	Proylene glycol monobuty																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene																			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene	0.8								0.0										
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether		3711.5	2299.7	927.9	514.9	333.2	230.9	167.6		7477.9	4633.4	1869.6	1037.4	671.3	465.3	337.7	8330.0	0.7	1.0
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.1				1.6	1.9	0.6	1.3					2.9	3.6	1.1	2.4	12.56	0.43	0.23

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 103: Micro-scale chamber concentration and emission factor for CAK37_m (construction adhesive)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-	4.85								0.00										
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol			24.27	21.83	15.78	8.05	6.35	3.95			47.87	43.06	31.13	15.88	12.53	7.78	101.28	0.49	0.89
6		108-95-2	Phenol	2.57							2.29	0.00										
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	1.50		14.60	10.81	3.48			1.46	0.00		25.85	18.38	3.92				83.62	0.94	0.97
9		98-86-2	Acetophenone	1.60		7.51	3.84	1.84	0.92	1.04	0.96	0.00		11.66	4.43	0.49				68.04	1.55	1.00
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.90		4.24	4.85	2.05	1.35	1.22	1.29	0.00		4.62	5.83	0.30				37.39	1.44	0.85
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-			2.67								5.27								
25		96-14-0	Pentane, 3-methyl-			1.38	0.80							2.72	1.58							
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		501.55	37.72	24.36	2.32					989.45	74.41	48.05	4.57				438.39	1.40	0.97
29		112-40-3	Dodecane			12.01	10.46	5.02	2.84	1.10	0.68			23.69	20.64	9.90	5.59	2.18	1.34	79.18	0.80	0.89
30		142-82-5	Heptane			7.94	3.14							15.66	6.20							
31		544-76-3	Hexadecane	0.48			1.54	1.41	1.66	1.79	1.61	0.00			2.09	1.84	2.32	2.58	2.22			
32		110-54-3	Hexane			5.90	2.30							11.64	4.54							
33		111-84-2	Nonane		161.21	15.32	7.01						318.03	30.23	13.83							
34		111-65-9	Octane			5.80	2.38							11.44	4.70							
35		629-62-9	Pentadecane	8.28		1.44	1.01	0.86	1.19	1.12	1.09	0.00										
36		629-59-4	Tetradecane	11.85					0.67	0.53		0.00										
37		629-50-5	Tridecane	0.36		1.71	1.46	1.37	1.07	0.64		0.00		2.66	2.17	2.00	1.40	0.56		4.56	0.38	0.69
38		1120-21-4	Undecane		394.24	36.32	27.98	9.41	3.18	0.80			777.75	71.65	55.19	18.56	6.28	1.57		352.98	1.11	0.90
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-			0.45	0.49	0.16	0.09					0.89	0.97	0.32	0.18			2.25	0.62	0.93
40		611-14-3	Toluene, 2-ethyl-			1.36	0.92	0.12						2.68	1.82	0.24				12.27	1.21	0.97
41		620-14-4	Toluene, 3-ethyl-		15.31	2.71	1.50						30.20	5.36	2.96							
42		622-96-8	Toluene, 4-ethyl-		5.73	1.97	1.27						11.31	3.89	2.51							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene	2.19	105.73	4.92	4.71	5.92	1.99	1.74	1.93	0.00	204.26	5.37	4.96	7.36						
45		526-73-8	Benzene, 1,2,3-trimethyl-		18.75	2.10	1.48	0.29					36.98	4.14	2.92	0.57				14.36	1.00	0.97
46		95-63-6	Benzene, 1,2,4-trimethyl-	0.10	68.98	8.88	5.98	0.74				0.00	135.87	17.32	11.60	1.25				92.48	1.32	0.96
47		95-47-6	Benzene, 1,2-dimethyl-		117.88	46.11	23.43	2.03	0.35	0.17			232.55	90.96	46.23	4.00	0.68	0.34		939.41	1.82	0.99
48		108-67-8	Benzene, 1,3,5-trimethyl-		25.42	3.25	2.20	0.25					50.15	6.41	4.34	0.49				33.32	1.30	0.96
49		108-38-3	Benzene, 1,3-dimethyl-	1.53	428.50	149.78	67.89	4.24	0.71	0.44		0.00	842.33	292.47	130.93	5.36				3374.85	1.99	0.98
50		98-82-8	Benzene, isopropyl			0.70	0.41							1.38	0.81							
51		103-65-1	Benzene, propyl-			1.09	0.62							2.15	1.22							
52		100-41-4	Ethylbenzene	0.43	69.28	31.92	14.43	0.98	0.19	0.12		0.00	135.83	62.12	27.62	1.09				735.76	2.01	0.98
53		91-20-3	Naphthalene	0.29		0.35	0.33	0.16	0.11			0.00		0.12	0.08							
54		99-87-6	p-Cymene			0.53	0.35							1.05	0.69							
55		100-42-5	Styrene	0.30								0.00										
56		108-88-3	Toluene	0.94		2.80	2.26	0.84	2.97	2.63	3.37	0.00		3.66	2.60		3.99	3.32	4.79			
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester			44.50	42.28	24.59	13.29	9.04	5.78			87.80	83.41	48.51	26.22	17.83	11.40	211.94	0.57	0.91
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB			1.77	1.32	1.33	1.32	1.15	0.85			3.49	2.60	2.63	2.61	2.28	1.68	3.86	0.14	0.67

Table A. 103 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, Glycoethers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene			1.97	1.64							3.89	3.24							
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene																			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane			9.34	4.85							18.42	9.57							
92		110-82-7	Cyclohexane			1.38	0.74							2.72	1.46							
93		1678-93-9	Cyclohexane, butyl-		22.47	5.57	3.76						44.32	10.99	7.42							
94		1678-91-7	Cyclohexane, ethyl-			1.77	0.92							3.49	1.82							
95		1678-92-8	Cyclohexane, propyl-			2.24	1.62							4.42	3.20							
96		91-17-8	Decahydronaphthalene			7.73	4.85	0.90	0.23					15.25	9.57	1.78	0.46			55.70	1.07	0.98
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene	0.66								0.00										
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane			3.72								7.34								
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.7 h	6.6 h	24.6 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFR	107-02-8	Acrolein					0.0	1.2	0.7	0.6					0.1	2.3	1.3	1.2			

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 104: Micro-scale chamber concentration and emission factor for CAK32_m (foam sealant; gaps & cracks)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol							1.83								3.58				
5		64-17-5	Ethanol																			
6		108-95-2	Phenol	6.84	12.03	14.92	17.50	3.14	7.26	1.92		0.00	10.14	15.81	20.85		0.81			92.10	1.18	0.90
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone								0.12								0.24			
8		67-64-1	Acetone		17.11	9.80	2.39	5.46	1.76	5.20	2.34		33.49	19.19	4.68	10.68	3.44	10.17	4.58	14.71	0.22	0.23
9		98-86-2	Acetophenone	0.99	1.94	3.18	4.50	1.58	2.47	1.23	0.68	0.00	1.86	4.28	6.85	1.15	2.89	0.46		12.20	0.61	0.60
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde	1.09	4.23	5.64	4.90	3.73	2.55	1.36	1.56	0.00	6.14	8.90	7.46	5.17	2.86	0.54	0.92	26.77	0.72	0.77
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal	0.34								0.00										
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hydrocarbons	107-83-5	Pentane, 2-methyl-		74.47	36.00	21.59	13.71	8.99	6.12	4.46		145.74	70.46	42.25	26.84	17.60	11.99	8.72	128.19	0.55	0.97
25		96-14-0	Pentane, 3-methyl-		30.54	15.01	9.76	5.90	4.36	2.93	2.24		59.77	29.37	19.11	11.55	8.53	5.73	4.38	51.42	0.51	0.97
26		540-84-1	2,2,4-Trimethylpentane																			
27		108-08-7	2,4-Dimethylpentane		4.97	2.23	1.38						9.73	4.36	2.70							
28		124-18-5	Decane	1.47	3.16	1.65	8.28	0.61	0.84			0.00	3.32	0.35	13.33							
29		112-40-3	Dodecane	1.02	1.49		0.53		0.18			0.00	0.93									
30		142-82-5	Heptane		28.51	12.03	7.68	4.46	2.25	1.33	0.78		55.79	23.54	15.02	8.73	4.40	2.61	1.53	59.12	0.72	0.94
31		544-76-3	Hexadecane	0.16								0.00										
32		110-54-3	Hexane		72.77	32.07	20.80	11.60	6.78	3.62	2.05		142.42	62.77	40.71	22.71	13.27	7.09	4.00	157.54	0.72	0.93
33		111-84-2	Nonane				4.98								9.75							
34		111-65-9	Octane		12.16	5.00	3.44	2.21	1.13	0.67	0.43		23.80	9.79	6.74	4.33	2.21	1.31	0.84	23.20	0.66	0.93
35		629-62-9	Pentadecane		4.86		3.63	1.89	1.29	1.14	0.96		9.51		7.10	3.69	2.53	2.23	1.87	16.69	0.48	1.00
36		629-59-4	Tetradecane		30.54		18.71	8.99	6.21	4.62	3.59		59.77		36.63	17.59	12.15	9.04	7.03	107.39	0.58	0.99
37		629-50-5	Tridecane		1.22		0.47						2.39		0.91							
38		1120-21-4	Undecane	2.53		0.90	1.22		0.33			0.00										
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-	0.36								0.0										
41		620-14-4	Toluene, 3-ethyl-		0.27		0.22						0.5		0.4							
42		622-96-8	Toluene, 4-ethyl-		0.38		0.24						0.8		0.5							
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		23.06	10.64	6.78	3.65	1.3	1.9	0.6		45.1	20.8	13.3	7.1	2.5	3.7	1.3	49.6	0.7	0.9
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-		0.36								0.7									
47		95-47-6	Benzene, 1,2-dimethyl-		0.99	0.49	0.32	0.20	0.1	0.1			1.9	1.0	0.6	0.4	0.2	0.2		1.8	0.6	1.0
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.29		0.18						0.6		0.4							
49		108-38-3	Benzene, 1,3-dimethyl-	0.06	7.46	3.30	2.19	1.16	0.5	0.4	0.3	0.0	14.5	6.3	4.2	2.1	0.9	0.7	0.4	16.1	0.7	1.0
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene		1.02	0.67	0.32	0.26	0.1	0.1	0.1		2.0	1.3	0.6	0.5	0.2	0.2	0.2	2.2	0.6	0.9
53		91-20-3	Naphthalene	0.19								0.0										
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene	0.10	0.47	0.98	0.36	0.34	0.1	0.2	0.8	0.0	0.7	1.7	0.5	0.5	0.0	0.2	1.4	1.6	0.5	0.2
56		108-88-3	Toluene	43.19	43.40	38.95	13.57	12.17	4.0	3.9	1.0	0.0	0.4									
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester								0.3								0.6			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB	51.17			1.50	4.73	0.9			0.0										

Table A. 104 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		113.44	56.91	35.08	17.89	10.51	5.90	3.80		222.02	111.38	68.65	35.01	20.57	11.55	7.43	269.12	0.72	0.96
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform																			
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene		0.70								1.37									
89		79-01-6	Trichloroethylene		5.74								11.24									
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		23.78	12.23	7.19	3.71	2.99	2.07	1.70		46.54	23.94	14.07	7.26	5.85	4.04	3.33	40.35	0.53	0.99
92		110-82-7	Cyclohexane		19.44	9.77	5.95	3.71	2.45	1.89	1.53		38.05	19.13	11.65	7.26	4.79	3.70	2.99	32.00	0.50	0.99
93		1678-93-9	Cyclohexane, butyl-				0.71								1.39							
94		1678-91-7	Cyclohexane, ethyl-		1.70								3.32									
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-	6.38								0.00										
113		123-91-1	1,4-Dioxane								0.91								1.77			
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	75.4 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.6 h	48.7 h	75.4 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPI	107-02-8	Acrolein		7.0	5.2	3.4	3.3	2.1	1.7	4.3		13.7	10.2	6.6	6.5	4.0	3.3	8.4	10.75	0.18	0.31

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 105: Micro-scale chamber concentration and emission factor for CAK33_m (foam sealant; window & door)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.7 h	3 h	6 h	23.9 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-							4.49								9.09				
4		67-63-0	2-Propanol			0.63				0.39				1.28				0.80				
5		64-17-5	Ethanol																			
6		108-95-2	Phenol		14.52	9.82		1.62	1.23	3.32	2.09		29.42	19.90		3.28	2.49	6.73	4.24	23.52	0.43	0.55
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.47	14.65	9.82	7.92	5.39	1.78	7.56	0.81	0.00	28.74	18.95	15.09	9.98	2.66	14.36	0.69	46.92	0.63	0.47
9		98-86-2	Acetophenone	0.23	3.27	3.03	2.77	1.80	0.99	0.91	0.60	0.00	6.17	5.68	5.14	3.18	1.53	1.37	0.74	12.68	0.55	0.91
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone																			
12		100-52-7	Benzaldehyde		4.79	5.16	3.70	2.79	1.51	1.72	1.35		9.70	10.46	7.49	5.65	3.06	3.49	2.73	15.51	0.37	0.95
13		123-72-8	Butanal																			
14		112-31-2	Decanal			7.29				4.75				14.77				9.62				
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal							4.01								8.13				
19		124-19-6	Nonanal			5.45				4.25				11.04				8.60				
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane				0.57								1.15							
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane			1.17				0.36				2.37				0.73				
29		112-40-3	Dodecane																			
30		142-82-5	Heptane				0.57								1.15							
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane							0.59								1.20				
33		111-84-2	Nonane			2.01				0.22				4.08				0.45				
34		111-65-9	Octane																			
35		629-62-9	Pentadecane																			
36		629-59-4	Tetradecane			0.29		0.38	0.28					0.58		0.78	0.57					
37		629-50-5	Tridecane																			
38		1120-21-4	Undecane																			
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-			0.13				0.04				0.27				0.08				
41		620-14-4	Toluene, 3-ethyl-			0.15				0.10				0.31				0.20				
42		622-96-8	Toluene, 4-ethyl-			0.13				0.09				0.27				0.18				
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		0.76	3.22	2.48	0.16	0.26	0.15			1.53	6.53	5.03	0.33	0.53	0.31		21.34	1.04	0.88
45		526-73-8	Benzene, 1,2,3-trimethyl-							0.06								0.12				
46		95-63-6	Benzene, 1,2,4-trimethyl-			0.25				0.25				0.51				0.51				
47		95-47-6	Benzene, 1,2-dimethyl-			0.17				0.24				0.35				0.49				
48		108-67-8	Benzene, 1,3,5-trimethyl-			0.08				0.08				0.16				0.16				
49		108-38-3	Benzene, 1,3-dimethyl-		0.51	0.67	0.59	0.28	0.06	1.14			1.04	1.36	1.19	0.57	0.12	2.30		1.56	0.25	0.09
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-			0.19								0.39								
52		100-41-4	Ethylbenzene			0.33	0.16	0.10		0.30				0.66	0.33	0.20		0.61		0.45	0.04	0.01
53		91-20-3	Naphthalene			0.19								0.39								
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene			0.81	0.38	0.28	0.16	0.13	0.14			1.63	0.78	0.57	0.33	0.27	0.29	2.36	0.49	0.95
56		108-88-3	Toluene	1.91	5.79	270.22	78.30	37.80	0.40	22.97	1.14	0.00	7.87	543.74	154.82	72.73		42.68		856.68	0.74	0.91
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB			3.20	0.63		0.91					6.49	1.27		1.83			4.95	0.31	0.27

Table A. 105 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.5 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.7 h	3 h	6 h	23.9 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene		1.7	0.7	0.3						3.4	1.3	0.7							
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		7.1	3.9	1.7		0.5		0.4		14.4	7.9	3.4		1.0		0.7	13.6	0.7	1.0
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform							0.5								1.0				
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene							0.2								0.3				
89		79-01-6	Trichloroethylene							28.5								57.7				
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane																			
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane				1.5								3.0							
114		78-40-0	Triethyl phosphate		46.1	32.1	5.1						93.5	65.2	10.3							
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide		27.5	14.4	13.4	6.5	4.1	2.0	3.7		55.8	29.2	27.3	13.1	8.3	4.1	7.5	58.9	0.5	0.9
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.1 h	3.6 h	6.6 h	24.5 h	48.6 h	73.1 h	97.1 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.1 h	3.6 h	6.6 h	24.5 h	48.6 h	73.1 h	97.1 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFPH	107-02-8	Acrolein		2.5	2.1	1.5	5.1	2.5	1.4	0.7		5.1	4.2	3.0	10.3	5.1	2.9	1.5	5.86	0.14	0.08

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 106: Micro-scale chamber concentration and emission factor for CAK34_m (foam sealant; triple expansion)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
				0 h	1.7 h	3 h	6 h	23.9 h	48 h	72 h	96 h	0 h	1.7 h	3 h	6 h	23.9 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol																			
2		71-23-8	1-Propanol																			
3		104-76-7	Hexanol, 2-ethyl-1-																			
4		67-63-0	2-Propanol																			
5		64-17-5	Ethanol																			
6		108-95-2	Phenol			3.00		1.64	1.17	3.94	0.76			5.76		3.16	2.25	7.57	1.47	7.08	0.22	0.20
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone																			
8		67-64-1	Acetone	0.78	20.35	6.56	3.22	4.42	2.35	2.23	1.58	0.00	37.61	11.10	4.68	7.00	3.02	2.78	1.53	15.78	0.43	0.73
9		98-86-2	Acetophenone	0.46	2.11	3.83	1.68	1.06	0.91	1.53	0.60	0.00	3.16	6.48	2.33	1.14	0.85	2.05	0.26	9.91	0.62	0.65
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone								0.30								0.58			
12		100-52-7	Benzaldehyde	0.65	3.85	4.01	3.82	2.80	1.30	1.77	0.88	0.00	6.15	6.46	6.10	4.14	1.25	2.17	0.45	17.38	0.63	0.73
13		123-72-8	Butanal																			
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal																			
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-		47.26	39.03	22.57	6.79	6.47	5.42	4.40		90.83	75.01	43.38	13.05	12.43	10.42	8.45	130.05	0.62	0.96
25		96-14-0	Pentane, 3-methyl-		18.57	17.28	9.84	2.97	2.63	2.38	1.95		35.69	33.20	18.92	5.72	5.06	4.58	3.75	57.36	0.62	0.96
26		540-84-1	2,2,4-Trimethylpentane		0.92	1.71	1.35				0.25		1.78	3.29	2.59				0.49	6.49	0.56	0.99
27		108-08-7	2,4-Dimethylpentane																			
28		124-18-5	Decane		1.27	1.25	0.72		0.73	0.18			2.44	2.39	1.39		1.41	0.34		3.54	0.42	0.60
29		112-40-3	Dodecane		0.88	0.86	0.43						1.69	1.65	0.82							
30		142-82-5	Heptane	0.53	17.41	14.09	9.01	2.84	2.21	1.86	1.32	0.00	32.44	26.05	16.29	4.43	3.24	2.56	1.52	62.15	0.78	0.99
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane		50.33	44.18	25.98	7.65	7.02	4.97	3.83		96.74	84.92	49.94	14.71	13.50	9.55	7.36	167.47	0.68	0.98
33		111-84-2	Nonane		2.73	3.25	1.38	0.63	0.80	0.41	0.27		5.25	6.24	2.66	1.20	1.54	0.79	0.53	9.88	0.60	0.90
34		111-65-9	Octane		6.23	6.48	3.61	1.45	1.12	0.89	0.64		11.98	12.45	6.93	2.78	2.16	1.71	1.22	22.77	0.63	0.99
35		629-62-9	Pentadecane		4.69	4.90	3.35	1.51	1.29	1.02	0.84		9.00	9.42	6.44	2.90	2.48	1.96	1.62	15.59	0.49	0.99
36		629-59-4	Tetradecane		29.04	28.17	17.62	7.12	5.29	4.09	3.33		55.80	54.14	33.87	13.69	10.16	7.86	6.40	100.87	0.60	1.00
37		629-50-5	Tridecane		0.88				0.11				1.69				0.21					
38		1120-21-4	Undecane		0.62	0.53				0.09			1.20	1.01				0.17				
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-																			
40		611-14-3	Toluene, 2-ethyl-																			
41		620-14-4	Toluene, 3-ethyl-			0.16								0.30								
42		622-96-8	Toluene, 4-ethyl-			0.21								0.41								
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		8.08	8.64	3.96	0.90	1.55	0.57	0.81		15.53	16.60	7.61	1.73	2.98	1.09	1.56	28.15	0.69	0.86
45		526-73-8	Benzene, 1,2,3-trimethyl-																			
46		95-63-6	Benzene, 1,2,4-trimethyl-																			
47		95-47-6	Benzene, 1,2-dimethyl-		1.27	1.19	0.62	0.31	0.21	0.16	0.24		2.44	2.28	1.20	0.60	0.41	0.30	0.45	3.40	0.52	0.92
48		108-67-8	Benzene, 1,3,5-trimethyl-		0.17	0.16							0.33	0.30								
49		108-38-3	Benzene, 1,3-dimethyl-	0.09	7.52	9.44	3.80	1.43	1.37	0.89	0.73	0.00	14.29	17.97	7.14	2.58	2.46	1.55	1.24	31.03	0.71	0.96
50		98-82-8	Benzene, isopropyl																			
51		103-65-1	Benzene, propyl-																			
52		100-41-4	Ethylbenzene		0.95	1.32	0.43	0.29	0.20	0.11	0.11		1.82	2.54	0.82	0.56	0.38	0.21	0.21	3.99	0.65	0.93
53		91-20-3	Naphthalene																			
54		99-87-6	p-Cymene																			
55		100-42-5	Styrene		0.67	0.54	0.23	0.37		0.14			1.28	1.05	0.45	0.71		0.26		1.22	0.31	0.55
56		108-88-3	Toluene	51.92	10.68	64.16	196.90	257.79	1.64	1.51	9.35	0.00		23.52	278.64	395.66						
57		98-83-9	2-Phenylpropene																			
58		95-13-6	Indene																			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est																			
60		111-15-9	Acetic acid, 2-ethoxyethyl est																			
61		123-86-4	Acetic acid, butyl ester						0.45								0.86					
62		141-78-6	Acetic acid, ethyl ester																			
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate																			
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB			1.05			0.41					2.02			0.79					

Table A. 106 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.7 h	3 h	6 h	23.9 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.7 h	3 h	6 h	23.9 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol																			
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-																			
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-																			
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane		97.81	87.74	51.44	17.71	14.23	11.07	8.60		187.98	168.64	98.87	34.04	27.36	21.27	16.53	320.22	0.65	0.99
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform		0.92								1.78									
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene																			
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane		13.84	10.53	6.24	1.96	1.91	1.35	1.21		26.60	20.23	11.99	3.76	3.68	2.60	2.33	36.02	0.62	0.97
92		110-82-7	Cyclohexane		10.90	9.26	5.28	1.72	1.59	1.32	1.03		20.94	17.80	10.15	3.31	3.06	2.54	1.98	30.80	0.61	0.97
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-			0.72	0.41							1.38	0.79							
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid																			
105		79-31-2	Isobutyric acid																			
106		107-92-6	Butyric acid																			
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane																			
114		78-40-0	Triethyl phosphate		37.27	11.48	12.22	6.32	5.28	5.06	3.48		71.62	22.06	23.49	12.15	10.14	9.72	6.68	36.52	0.34	0.93
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide																			
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.3 h	3.6 h	6.6 h	24.5 h	48.6 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.3 h	3.6 h	6.6 h	24.5 h	48.6 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein		3.2	4.4	3.1	3.5	4.4	0.3	2.1		6.2	8.4	6.0	6.7	8.5	0.6	4.1	14.82	0.38	0.26

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.

Table A. 107: Micro-scale chamber concentration and emission factor for CAK35_m (foam sealant; latex-based)

				Chamber concentration (µg m^{-3})								Emission factor (µg m^{-2} h^{-1})								Coefficient: E = a t^{-b} with t > 3 h		
#	Class	CAS #	Compound	0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	a	b	R^2
1	Alcohols	71-36-3	1-Butanol		176.7	245.3	168.4	164.0	37.2				346.8	481.4	330.6	321.8	73.1			961.5	0.55	0.69
2		71-23-8	1-Propanol		39.4	52.3	40.9	39.0					77.4	102.6	80.4	76.5				110.5	0.13	0.72
3		104-76-7	Hexanol, 2-ethyl-1-		14.4	20.2	15.2	13.7	13.9	7.5	6.9		28.2	39.6	29.7	26.8	27.4	14.7	13.6	53.5	0.26	0.76
4		67-63-0	2-Propanol		67009.8	62637.5	62873.2	63485.6	6183.5	2.4	1.3		1.3E+05	1.2E+05	1.2E+05	1.2E+05	12138.2	4.7	2.5	2.4E+07	2.93	0.63
5		64-17-5	Ethanol																			
6		108-95-2	Phenol	2.94	17.2	22.7	14.9	57.6	25.5	14.5	11.9	0.0	28.0	38.7	23.6	107.4	44.2	22.7	17.6	46.6	0.09	0.04
7	Aldehydes & Ketones	78-93-3	Methylethyl ketone		17.0	15.4	13.3	10.5	0.3				33.3	30.2	26.1	20.5	0.5			193.3	1.21	0.61
8		67-64-1	Acetone		1564.5	1234.4	1303.8	1213.7	106.1	3.5	1.8		3071.1	2423.1	2559.3	2382.6	208.2	6.9	3.5	62045.2	1.83	0.71
9		98-86-2	Acetophenone		20.9	27.0	21.8	22.1	29.2	22.1	19.2		41.1	53.0	42.7	43.3	57.4	43.4	37.7	51.6	0.04	0.12
10		108-94-1	Cyclohexanone																			
11		108-10-1	Methylisobutyl ketone			1.0	1.1	0.8						1.9	2.2	1.7				2.3	0.09	0.41
12		100-52-7	Benzaldehyde	0.79	30.4	38.7	30.3	26.7	31.8	16.2	10.2	0.0	58.0	74.4	57.9	50.9	60.8	30.3	18.4	109.5	0.29	0.61
13		123-72-8	Butanal		17.5	19.4	17.4	16.9	5.6	2.7	1.7		34.3	38.1	34.2	33.1	11.0	5.4	3.3	113.0	0.66	0.78
14		112-31-2	Decanal																			
15		3913-81-3	2-Decenal																			
16		98-01-1	Furfural																			
17		111-71-7	Heptanal																			
18		66-25-1	Hexanal																			
19		124-19-6	Nonanal			2.6	2.2							5.2	4.3							
20		18829-56-6	2-Nonenal																			
21		124-13-0	Octanal																			
22		2548-87-0	2-Octenal																			
23		110-62-3	Pentanal																			
24	Aliphatic Hyddrocarbons	107-83-5	Pentane, 2-methyl-																			
25		96-14-0	Pentane, 3-methyl-																			
26		540-84-1	2,2,4-Trimethylpentane			1.61	1.90				0.39			3.16	3.73				0.77	6.41	0.45	0.92
27		108-08-7	2,4-Dimethylpentane		5.16	6.40	5.77	5.88	1.51	0.73	0.38		10.13	12.55	11.32	11.55	2.96	1.43	0.75	44.55	0.76	0.76
28		124-18-5	Decane		2.09	2.51	5.42		0.35				4.10	4.92	10.64		0.68			22.34	0.85	0.75
29		112-40-3	Dodecane		1.48	1.83	1.70	0.91	0.94	0.62	0.33		2.90	3.60	3.33	1.78	1.85	1.21	0.65	6.57	0.42	0.84
30		142-82-5	Heptane		2.70	2.57	1.98	2.45					5.31	5.04	3.89	4.81						
31		544-76-3	Hexadecane																			
32		110-54-3	Hexane								0.73								1.44			
33		111-84-2	Nonane		1.77	2.06	4.93	0.82	0.46				3.48	4.04	9.67	1.62	0.90			15.18	0.69	0.70
34		111-65-9	Octane																			
35		629-62-9	Pentadecane			0.67	0.74	0.70	0.66	0.56	0.50			1.32	1.45	1.37	1.29	1.11	0.97	1.59	0.08	0.55
36		629-59-4	Tetradecane				0.47	0.56	0.41	0.54	0.36				0.92	1.09	0.80	1.07	0.71	2.09	0.21	0.36
37		629-50-5	Tridecane			0.47	0.57		0.53	0.45				0.92	1.12		1.05	0.89		1.03	0.02	0.04
38		1120-21-4	Undecane		0.80	0.96	0.94		0.34				1.56	1.88	1.85		0.66			3.26	0.40	0.95
39	Aromatic Hydrocarbons	95-93-2	Benzene, 1,2,4,5-tetramethyl-		0.68	0.92	0.76	0.60	0.69	0.37	0.25		1.34	1.80	1.49	1.17	1.35	0.72	0.49	2.68	0.29	0.70
40		611-14-3	Toluene, 2-ethyl-		133.83	157.96	144.31	112.10	85.59	40.85	21.28		262.71	310.08	283.29	220.05	168.02	80.19	41.78	677.59	0.48	0.74
41		620-14-4	Toluene, 3-ethyl-		437.81	493.44	438.83	345.04	241.28	96.76	44.15		859.42	968.63	861.43	677.32	473.63	189.94	86.66	2487.84	0.58	0.73
42		622-96-8	Toluene, 4-ethyl-		468.76	503.91	429.39	304.94	164.54	59.52	23.90		920.17	989.18	842.89	598.59	322.99	116.83	46.91	3307.04	0.76	0.77
43		31017-40-0	Cyclohexene, 4-phenyl																			
44		71-43-2	Benzene		1.41	2.87	2.21	4.05	3.70				2.77	5.64	4.34	7.96	7.26					
45		526-73-8	Benzene, 1,2,3-trimethyl-		198.25	238.19	203.91	156.36	108.41	63.94	37.17		389.17	467.56	400.27	306.93	212.80	125.51	72.96	935.65	0.46	0.82
46		95-63-6	Benzene, 1,2,4-trimethyl-		422.68	490.51	419.69	315.84	204.00	101.41	51.35		829.71	962.87	823.86	620.00	400.46	199.06	100.81	2282.95	0.56	0.80
47		95-47-6	Benzene, 1,2-dimethyl-		89.66	94.22	81.62	68.48	33.64	8.35	2.98		176.01	184.95	160.21	134.42	66.04	16.39	5.85	759.04	0.84	0.71
48		108-67-8	Benzene, 1,3,5-trimethyl-		153.69	177.82	163.05	130.39	101.75	45.91	23.13		301.70	349.06	320.06	255.96	199.74	90.12	45.41	773.36	0.49	0.72
49		108-38-3	Benzene, 1,3-dimethyl-		124.90	131.36	110.88	91.46	36.33	6.77	1.98		245.19	257.87	217.66	179.54	71.32	13.29	3.88	1453.04	1.03	0.71
50		98-82-8	Benzene, isopropyl		101.05	114.30	109.43	89.77	64.37	22.21	10.07		198.35	224.37	214.81	176.23	126.36	43.59	19.77	610.49	0.58	0.68
51		103-65-1	Benzene, propyl-		272.78	316.56	275.89	211.60	124.81	42.87	17.17		535.47	621.40	541.57	415.38	245.01	84.16	33.70	1975.76	0.71	0.74
52		100-41-4	Ethylbenzene		32.56	35.34	29.53	24.94	9.09	1.66	0.52		63.92	69.36	57.97	48.95	17.85	3.26	1.01	401.56	1.05	0.72
53		91-20-3	Naphthalene		0.43	0.49	0.33	0.27	0.26	0.18	0.16		0.85	0.96	0.64	0.53	0.50	0.36	0.30	1.22	0.28	0.91
54		99-87-6	p-Cymene		5.27	6.54	6.05	4.73	3.23	1.94	1.14		10.35	12.83	11.88	9.29	6.33	3.81	2.23	25.80	0.44	0.80
55		100-42-5	Styrene		309.68	314.09	266.91	179.51	63.51	10.10	2.95		607.90	616.57	523.95	352.37	124.68	19.83	5.79	4349.04	1.18	0.75
56		108-88-3	Toluene	0.14	27.61	105.70	12.04	95.31	3.26	0.59	25.92	0.00	53.91	207.21	23.36	186.81	6.11	0.89	50.59	314.87	0.81	0.29
57		98-83-9	2-Phenylpropene		4.02	4.79	3.82	2.45	2.32				7.89	9.40	7.51	4.81	4.56			12.33	0.27	0.97
58		95-13-6	Indene			0.33	0.27	0.27	1.14	1.36	0.83			0.64	0.52	0.53	2.23	2.68	1.62			
59	Esters	108-21-4	Acetic acid, 1-methylethyl est		496.80	567.78	486.87	458.87					975.21	1114.55	955.73	900.76				1191.97	0.09	0.82
60		111-15-9	Acetic acid, 2-ethoxyethyl este																			
61		123-86-4	Acetic acid, butyl ester																			
62		141-78-6	Acetic acid, ethyl ester		266.64	293.34	241.23	211.65	4.83				523.42	575.83	473.53	415.46	9.49			3575.24	1.20	0.60
63		80-62-6	Methyl methacrylate																			
64		103-09-3	2-Ethylhexyl acetate						0.69								1.35					
65		96-48-0	Butyrolactone																			
66		25265-77-4	Texanol																			
67		6846-50-0	TXIB		2.18	2.71		1.46		0.62			4.28	5.32		2.87		1.21		9.34	0.44	0.93

Table A. 107 (continued)

#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	Emission factor (µg m^{-2} h^{-1}) 0 h	1.6 h	3 h	6 h	24 h	48 h	72 h	96 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
68	Glycols, GlycoEthers	57-55-6	1,2-Propanediol		52.74	36.86	34.54	28.15	41.25	15.63			103.52	72.36	67.80	55.25	80.97	30.68		90.26	0.15	0.30
69		110-49-6	2-Methoxyethylacetate																			
70		111-90-0	Diethylene glycol monoethyl e																			
71		107-98-2	Propanol, 1-methoxy-2-																			
72		111-76-2	Ethanol, 2-butoxy-			0.96			3.54	2.17	1.11			1.88			6.96	4.27	2.17	4313.10	1.65	0.96
73		112-34-5	Ethanol, 2-butoxyethoxy-																			
74		110-80-5	Ethanol, 2-ethoxy-																			
75		109-86-4	Ethanol, 2-methoxy-																			
76		75-65-0	Propanol, 2-methyl-2-		1272.32	1331.53	1295.91	1299.69	72.33	0.45			2497.57	2613.79	2543.87	2551.30	141.98	0.89		75209.2	1.95	0.58
77		5131-66-8	Proylene glycol monobutyl et																			
78	Halo Carbons	71-55-6	1,1,1-Trichloroethane																			
79		95-50-1	1,2-Dichlorobenzene																			
80		107-06-2	1,2-Dichloroethane																			
81		78-87-5	1,2-Dichloropropane																			
82		106-46-7	1,4-Dichlorobenzene																			
83		75-27-4	Bromodichloromethane																			
84		56-23-5	Carbon tetrachloride																			
85		67-66-3	Chloroform				0.18								0.36							
86		124-48-1	Dibromochloromethane																			
87		75-09-2	Dichloromethane																			
88		127-18-4	Tetrachloroethylene																			
89		79-01-6	Trichloroethylene			0.24								0.48								
90		79-34-5	1,1,2,2-Tetrachloroethane																			
91	Cyclo Alkanes	108-87-2	Methylcyclohexane			1.36	1.15	1.21						2.68	2.25	2.38				2.65	0.04	0.25
92		110-82-7	Cyclohexane																			
93		1678-93-9	Cyclohexane, butyl-																			
94		1678-91-7	Cyclohexane, ethyl-																			
95		1678-92-8	Cyclohexane, propyl-																			
96		91-17-8	Decahydronaphthalene																			
97	Terpenes	80-56-8	alpha-Pinene																			
98		99-86-5	alpha-Terpinene																			
99		127-91-3	beta-Pinene																			
100		99-85-4	gamma-Terpinene																			
101		13466-78-9	3-Carene																			
102		79-92-5	Camphene																			
103		5989-27-5	Limonene																			
104	Acids	64-19-7	Acetic acid		282.5	798.1	826.1	2213.3	11089.8	8122.1	2952.7		554.6	1566.8	1621.7	4344.6	21769.3	15943.8	5796.2			
105		79-31-2	Isobutyric acid								1.71								3.35			
106		107-92-6	Butyric acid						4.32								8.48					
107		111-14-8	Heptanoic acid																			
108		149-57-5	2-Ethylhexanoic acid																			
109		142-62-1	Hexanoic acid																			
110		109-52-4	Pentanoic Acid																			
111	Other	3777-69-3	Furan, 2-pentyl																			
112		872-50-4	2-Pyrrolidinone, 1-methyl-																			
113		123-91-1	1,4-Dioxane			5.13	3.91	2.37	0.58	0.88	0.81			10.07	7.67	4.64	1.15	1.73	1.58	21.37	0.60	0.87
114		78-40-0	Triethyl phosphate																			
115		142-96-1	n-Butyl ether																			
116		96-29-7	2-Butanone oxime																			
117		121-44-8	Triethylamine																			
118		75-21-8	Ethylene oxide		40.99	64.42	77.57	55.21	52.67	47.53	35.49		80.46	126.46	152.26	108.37	103.39	93.30	69.67	176.28	0.16	0.74
119		75-56-9	Propylene oxide																			
120		106-99-0	1,3-Butadiene																			
#	Class	CAS #	Compound	Chamber concentration (µg m^{-3}) 0 h	2.2 h	3.6 h	6.6 h	24.5 h	48.7 h	73.2 h	97.2 h	Emission factor (µg m^{-2} h^{-1}) 0 h	2.2 h	3.6 h	6.6 h	24.5 h	48.7 h	73.2 h	97.2 h	Coefficient: E = a t^{-b} with t > 3 h a	b	R^2
124	PFP	107-02-8	Acrolein	0.5	11.7	12.1	10.0	17.3	26.2	10.6	6.2		21.9	22.9	18.7	33.1	50.4	20.0	11.3	26.06	0.03	0.01

Note: Caution is required in the interpretation of acrolein and trichloroethylene data as their blank and background levels were relatively higher than other compounds.