




FIELD SAMPLING TEST REPORT	
Customer Information	LST.FAI.HBDCResults@ul.com UL Verification Services, Inc. 3251 Old Lee Highway, Suite 100 Fairfax, VA 22030 USA
HB Project Number	2009049NY
Date Received	October 13, 2020
Testing Laboratory Location	UL Environment - Marietta, 2211 Newmarket Parkway, Marietta, GA 30067-9399 USA
Method	USEPA Compendium Method TO-17 ; ASTM 6196
Authorized by	 Allyson M. McFry Chemistry Laboratory Director
<p>Sampling: Reported data were obtained from samples and sampling information as provided by the on-site investigator. These data and general information are provided to assist the investigator in an overall IAQ assessment. Interpretation of data is left to the client or persons who conducted the field work.</p> <p>This test is accredited and meets the requirements of ISO/IEC 17025 as verified by ANSI National Accreditation Board. Refer to certificate and scope of accreditation AT-1297.</p> <p>This report shall not be reproduced, except in full, without permission from UL. Results contained within this report only apply to the actual product tested under the testing conditions documented in this report.</p>	

Date Issued: November 11, 2020
Product #: 1001053392-3387944
Report #: 1001053392-3387944R2
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Supersedes Report #: 1001053392-3387944R1

UL ID:	SV1TFD
Sample Date:	October 10, 2020
Volume (L):	17.8

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description		BURN_05_BR_04_1Day_AM	
Total Volatile Organic Compounds		456 µg/m³	
CAS Number	Compound	Concentration	
		µg/m³	ppb
100-42-5	Styrene [†]	54.2	12.7
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	41.6	4.7
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	35.2	4.8
64-19-7	Acetic acid	32.8	13.3
91-20-3	Naphthalene [†]	28.9	5.5
116-09-6	2-Propanone, 1-hydroxy	26.6	8.8
98-01-1	Furfural (2-Furaldehyde)	25.0	6.4
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	11.6	2.4
66-25-1	Hexanal	10.7	2.6
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	9.9	1.9
108-88-3	Toluene (Methylbenzene)	9.1	2.4
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1-Methylethenyl)benzene)	9.0	1.9
90-05-1	Phenol, 2-methoxy*	8.8	1.7
71-43-2	Benzene [†]	8.8	2.8
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	8.6	1.8
95-13-6	Indene*	7.6	1.6
1330-20-7	Xylenes (Total) [†]	7.5	1.7
1072-82-8	3-Acetyl-1H-pyrroline*	7.0	1.6
767-60-2	1H-Indene, 3-methyl*	6.7	1.3
120-92-3	Cyclopentanone	6.4	1.9
74810-70-1	2-Octene, 1,1,2-trifluoro-*	5.8	0.9
10143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-*	5.7	0.9
15176-21-3	1,4-Dioxane, 2,5-dimethyl*	5.2	1.1
208-96-8	Acenaphthylene*	5.2	0.8
96-29-7	2-Butanone, oxime*	5.0	1.4
100-47-0	Benzonitrile	4.8	1.1
508-32-7	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl-	4.8	0.9
93-51-6	Phenol, 2-methoxy-4-methyl*	4.7	0.8
627-08-7	Propane, 1-(1-methylethoxy)*	4.6	1.1
100-41-4	Benzene, ethyl [†]	4.5	1.0
100-52-7	Benzaldehyde	4.5	1.0
5989-27-5	D-Limonene*	4.2	0.8
769-78-8	Vinyl benzoate*	4.1	0.7
123-86-4	Acetate, butyl	4.0	0.9
14593-43-2	Benzene, [(2-propenyloxy)methyl]-*	4.0	0.7
108-39-4	Phenol, 3-methyl*	3.6	0.8
106-21-8	1-Octanol, 3,7-dimethyl	3.5	0.5

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Sample Date:	October 10, 2020
Volume (L):	17.8

CAS Number	Compound	Concentration	
		µg/m³	ppb
142-96-1	n-Butyl ether	3.4	0.6
92-52-4	1,1'-Biphenyl*	3.3	0.5
541-02-6	Cyclopentasiloxane, decamethyl	3.2	0.2
1192-62-7	Ethanone, 1-(2-furanyl)*	3.2	0.7
126434-25-1	Cyclopropanemethanol, .alpha.,.alpha.-dimethyl-2-methylene-*	3.2	0.7
91337-07-4	2-Isopropyl-5-methyl-1-heptanol*	2.8	0.4
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	2.8	0.7
637-50-3	Benzene, 1-propenyl-*	2.6	0.5
71-36-3	1-Butanol (N-Butyl alcohol)	2.6	0.9
112-41-4	1-Dodecene	2.5	0.4
1000446-79-5	Acetamide, 2-phenyl-N-benzyl-N-isobutyl-*	2.4	0.2
109-97-7	Pyrrole*	2.4	0.9
18409-18-2	2-Decen-1-ol, (E)*	2.4	0.4
91-57-6	Naphthalene, 2-methyl	2.4	0.4
4292-92-6	Cyclohexane, pentyl	2.3	0.4
768-56-9	Benzene, 3-butenyl-*	2.0	0.4
289-95-2	1,3-Diazine*	2.0	0.6
85763-57-1	11-Methyldodecanol*	2.0	0.2
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	2.0	0.5
300-57-2	Allylbenzene	2.0	0.4
621-58-9	Phenol, 5-ethenyl-2-methoxy-*	2.0	0.3

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UL ID:	SV1TFDF
Sample Date:	October 10, 2020
Volume (L):	18.0

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description		BURN_05_BR_04_1Day_Field Blank	
Total Volatile Organic Compounds		BQL µg/m³	
CAS Number	Compound	Concentration	
		µg/m³	ppb
109-67-1	1-Pentene	3.8	1.3

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 Product #: 1001053392-3387944
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Supersedes Report #: 1001053392-3387944R1

UL ID:	SV2TFD
Sample Date:	October 10, 2020
Volume (L):	17.8

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description		BURN-_05_BR_04_1Day _AM	
Total Volatile Organic Compounds		706 µg/m³	
CAS Number	Compound	Concentration	
		µg/m³	ppb
100-42-5	Styrene [†]	83.2	19.5
64-19-7	Acetic acid	65.4	26.6
116-09-6	2-Propanone, 1-hydroxy	46.7	15.4
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	36.7	4.1
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	36.5	4.9
98-01-1	Furfural (2-Furaldehyde)	34.8	8.8
91-20-3	Naphthalene [†]	30.0	5.7
120-92-3	Cyclopentanone	24.0	7.0
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	15.4	3.3
108-88-3	Toluene (Methylbenzene)	14.6	3.9
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	14.2	2.7
90-05-1	Phenol, 2-methoxy*	13.7	2.7
1072-82-8	3-Acetyl-1H-pyrroline*	13.4	3.0
71-43-2	Benzene [†]	13.3	4.2
1330-20-7	Xylenes (Total) [†]	12.5	2.9
673-32-5	1-Phenyl-1-propyne	10.7	2.3
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1-Methylethenyl)benzene)	10.4	2.2
930-30-3	2-Cyclopenten-1-one*	9.6	2.8
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	9.5	1.9
100-41-4	Benzene, ethyl [†]	9.2	2.1
6124-79-4	4-Methyl-5H-furan-2-one*	9.2	2.3
93-51-6	Phenol, 2-methoxy-4-methyl*	9.2	1.6
300-57-2	Allylbenzene	8.8	1.8
106-44-5	Phenol, 4-methyl (p-Cresol)*	8.6	1.9
108-39-4	Phenol, 3-methyl*	8.6	1.9
15176-21-3	1,4-Dioxane, 2,5-dimethyl*	8.4	1.8
112-41-4	1-Dodecene	8.3	1.2
208-96-8	Acenaphthylene*	8.1	1.3
767-60-2	1H-Indene, 3-methyl*	7.9	1.5
100-47-0	Benzonitrile	7.4	1.8
71-41-0	1-Pentanol (N-Pentyl alcohol)	6.9	1.9
96-29-7	2-Butanone, oxime*	6.9	1.9
100-52-7	Benzaldehyde	6.8	1.6
1703-52-2	Furan, 2-ethyl-5-methyl-*	6.4	1.4
142-96-1	n-Butyl ether	6.0	1.1
271-89-6	Benzofuran*	5.7	1.2
106-21-8	1-Octanol, 3,7-dimethyl	5.4	0.8

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Sample Date:	October 10, 2020
Volume (L):	17.8

CAS Number	Compound	Concentration	
		µg/m³	ppb
627-08-7	Propane, 1-(1-methylethoxy)*	5.3	1.3
123-86-4	Acetate, butyl	5.1	1.1
4265-25-2	Benzofuran, 2-methyl*	5.1	0.9
508-32-7	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl-	5.1	0.9
56599-62-3	1,3-Dioxolane, 2,2-dimethyl-4-[[1-methylhexadecyl)oxy]methyl]-*	4.9	0.3
769-78-8	Vinyl benzoate*	4.8	0.8
621-58-9	Phenol, 5-ethenyl-2-methoxy-*	4.8	0.8
5989-27-5	D-Limonene*	4.6	0.8
71-36-3	1-Butanol (N-Butyl alcohol)	4.5	1.5
13429-07-7	2-Propanol, 1-(2-methoxypropoxy)-*	4.0	0.7
5077-67-8	1-Hydroxy-2-butanone*	4.0	1.1
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	4.0	1.0
92-52-4	1,1'-Biphenyl*	3.9	0.6
109-08-0	Pyrazine, methyl*	3.8	1.0
95-65-8	Phenol, 3,4-dimethyl-*	3.8	0.8
22690-38-6	2-Norbornanol, 1,2-dimethyl-*	3.6	0.6
16327-40-5	4,7-Methano-1H-inden-1-ol, 3a,4,7,7a-tetrahydro-, acetate*	3.5	0.9
1000446-79-5	Acetamide, 2-phenyl-N-benzyl-N-isobutyl-*	3.5	0.3
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	3.4	0.8
85763-57-1	11-Methyldodecanol*	3.3	0.4
2785-89-9	Phenol, 4-ethyl-2-methoxy*	3.2	0.5
4359-46-0	1,3-Dioxolane, 2-ethyl-4-methyl*	3.2	0.7
3777-69-3	Furan, 2-pentyl	3.2	0.6
19784-98-6	Phenol, 2-methoxy-5-(1-propenyl)-, (E)-*	3.2	1.2
63819-79-4	Benzene, (3-nitrobutyl)-*	3.1	0.4
57-55-6	1,2-Propanediol (Propylene glycol)	3.0	1.0
96-35-5	Acetic acid, hydroxy-, methyl ester*	3.0	0.8
629-73-2	1-Hexadecene*	2.9	0.3
1196-67-4	Cinnamaldehyde, .beta.-methyl-*	2.8	0.5
91-57-6	Naphthalene, 2-methyl	2.6	0.5
109-97-7	Pyrrole*	2.6	1.0
930-27-8	Furan, 3-methyl*	2.6	0.8
1678-97-3	Cyclohexane, 1,2,3-trimethyl	2.6	0.5
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	2.5	0.8
110-62-3	Pentanal	2.5	0.7
7379-12-6	3-Hexanone, 2-methyl*	2.4	0.5
20600-54-8	Benzene, 1-isocyano-3-methyl-*	2.4	0.5
1000282-61-0	Cyclobutanecarboxylic acid, 2-ethylcyclohexyl ester*	2.4	0.3
24199-46-0	6-Methyl-5-octen-2-one*	2.3	0.4
563-80-4	2-Butanone, 3-methyl*	2.3	0.6
54063-18-2	Ethene, (2-ethoxy-1-methoxyethoxy)-*	2.0	0.3

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UL ID:	SV2TFD
Sample Date:	October 10, 2020
Volume (L):	17.8

CAS Number	Compound	Concentration	
		µg/m ³	ppb
98-82-8	Benzene, 1-methylethyl (Cumene)	2.0	0.4
91337-07-4	2-Isopropyl-5-methyl-1-heptanol*	2.0	0.3

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UL ID:	SV3TFD
Sample Date:	October 10, 2020
Volume (L):	17.7

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description		BURN_05_BR_04_1Day_60 min	
Total Volatile Organic Compounds		550 µg/m³	
CAS Number	Compound	Concentration	
		µg/m³	ppb
64-19-7	Acetic acid	69.4	28.2
100-42-5	Styrene†	65.1	15.3
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	41.2	4.7
91-20-3	Naphthalene†	30.6	5.8
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	28.2	3.8
116-09-6	2-Propanone, 1-hydroxy	26.3	8.7
98-01-1	Furfural (2-Furaldehyde)	20.0	5.1
108-95-2	Phenol†	19.5	5.1
120-92-3	Cyclopentanone	14.9	4.3
123-91-1	1,4-Dioxane†	14.8	4.1
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	14.6	3.1
66-25-1	Hexanal	12.8	3.1
90-05-1	Phenol, 2-methoxy*	11.6	2.3
767-60-2	1H-Indene, 3-methyl*	9.8	1.8
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	9.6	2.3
95-13-6	Indene*	9.4	2.0
71-43-2	Benzene†	8.8	2.7
108-88-3	Toluene (Methylbenzene)	8.4	2.2
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	8.3	1.7
1330-20-7	Xylenes (Total) †	8.2	1.9
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	7.9	1.5
208-96-8	Acenaphthylene*	7.5	1.2
93-51-6	Phenol, 2-methoxy-4-methyl*	7.2	1.3
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1-Methylethenyl)benzene)	6.7	1.4
106-44-5	Phenol, 4-methyl (p-Cresol)*	6.5	1.5
100-47-0	Benzonitrile	6.3	1.5
80-71-7	2-Cyclopenten-1-one, 2-hydroxy-3-methyl-*	6.2	1.4
100-41-4	Benzene, ethyl†	5.9	1.3
930-30-3	2-Cyclopenten-1-one*	5.8	1.7
1000127-04-3	Monobenzylidene-d-glucose*	5.3	0.5
71-41-0	1-Pentanol (N-Pentyl alcohol)	5.0	1.4
5989-27-5	D-Limonene*	4.8	0.9
15176-21-3	1,4-Dioxane, 2,5-dimethyl*	4.8	1.0
96-29-7	2-Butanone, oxime*	4.7	1.3
100-52-7	Benzaldehyde	4.7	1.1
769-78-8	Vinyl benzoate*	4.6	0.8

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Sample Date:	October 10, 2020
Volume (L):	17.7

CAS Number	Compound	Concentration	
		µg/m³	ppb
110-86-1	Pyridine	4.5	1.4
271-89-6	Benzofuran*	4.4	0.9
123-86-4	Acetate, butyl	4.4	0.9
3944-37-4	1-Propanol, 2-(1-methylethoxy)-*	4.2	0.9
621-58-9	Phenol, 5-ethenyl-2-methoxy-*	4.2	0.7
1068-82-2	2-Hydroxy-2,6-dimethyl-hept-6-en-3-one*	4.1	0.6
92-52-4	1,1'-Biphenyl*	3.9	0.6
19780-63-3	2-Pentanol, 3-ethyl-2-methyl-*	3.8	0.7
7289-40-9	Ether, heptyl hexyl*	3.8	0.5
1192-62-7	Ethanone, 1-(2-furanyl)*	3.7	0.8
3073-92-5	Butane, 1-propoxy*	3.6	0.8
637-50-3	Benzene, 1-propenyl-*	3.6	0.7
95-48-7	Phenol, 2-methyl*	3.5	0.8
5077-67-8	1-Hydroxy-2-butanone*	3.2	0.9
53448-07-0	2-Undecenal, E-*	3.1	0.4
294-62-2	Cyclododecane	3.0	0.4
109-06-8	Pyridine, 2-methyl (2-Picoline)*	3.0	0.8
3777-69-3	Furan, 2-pentyl	3.0	0.5
1000351-63-4	Piperidine, 2-(phenylmethyl)-*	3.0	0.4
39986-37-3	2,4-Dimethyl-2-oxazoline-4-methanol*	2.9	0.5
936-48-1	1H-Pyrazole, 4,5-dihydro-3-phenyl-*	2.8	0.5
95-65-8	Phenol, 3,4-dimethyl-*	2.8	0.6
71-36-3	1-Butanol (N-Butyl alcohol)	2.7	0.9
54410-98-9	1-Nonene, 4,6,8-trimethyl-*	2.7	0.4
109-97-7	Pyrrole*	2.7	1.0
5076-20-0	Oxirane, tetramethyl-*	2.6	0.6
2785-89-9	Phenol, 4-ethyl-2-methoxy*	2.6	0.4
85763-57-1	11-Methyldodecanol*	2.6	0.3
91-57-6	Naphthalene, 2-methyl	2.5	0.4
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-*	2.5	0.5
103-65-1	Benzene, propyl	2.5	0.5
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	2.5	0.6
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	2.4	0.5
61142-68-5	Cyclopentane, 1-hexyl-3-methyl*	2.4	0.3
74630-42-5	1-Undecene, 7-methyl*	2.4	0.3
19784-98-6	Phenol, 2-methoxy-5-(1-propenyl)-, (E)-*	2.2	0.8
13547-06-3	Cyclohexene, 1-chloro-4-(1-chloroethenyl)	2.1	0.3
108-10-1	2-Pentanone, 4-methyl (Methyl isobutyl ketone, MIBK)	2.1	0.5

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UL ID:	SV3TFD
Sample Date:	October 10, 2020
Volume (L):	17.7

TVOC (total volatile organic compounds) are calibrated relative to toluene.

Field Blanks: Reported concentrations based on 18.0 L of volume sampled for VOCs. Actual field blanks are not intended to have a measurable amount of air sampled.

[†]Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

Values below 2.0 µg/m³ are for information purposes only. Chemical was detected, but below the quantifiable level of 0.04 µg based on a standard of 18 L air collection volume.

UL Environment's quality assurance program monitors blank sorbent media to ensure that the residual background does not exceed UL Environment's quality objective of ≤ 36 ng of total VOC.

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1001053392-3387944

ACTIVE CHEMICAL SAMPLING CHAIN OF CUSTODY								
Company: ULVS (Healthy Buildings)			Contact: CARERESULTS@UL.COM			Project/P.O./Job Number: 2009049NY		
Address: 3251 Old Lee Highway #100 Fairfax, VA 22030			Phone: 571.655.7919 Fax: 703.323.4440			Sample Date: 10OCT2020 Investigator: SAM.HORNER		
Please check the appropriate fields; Use separate COC for each sample method.	VOLATILE ORGANICS: IVOC SCAN: <input type="checkbox"/> TOP 20 IVOC <input type="checkbox"/> TVOC ONLY <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> B.T.E.X.							
	ALDEHYDE SCAN: <input type="checkbox"/> FORMALDEHYDE ONLY <input type="checkbox"/>				ANALYSIS: LEED V4 <input type="checkbox"/> LEED V4.1 <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> B.T.E.X.			
	TAT: Standard <input checked="" type="checkbox"/> Next Day Rush* <input type="checkbox"/> * Rush charges apply; please call in advance to confirm availability							
Comments:								
UL ID	SAMPLE ID/ TUBE ID	SAMPLE LOCATION/ DESCRIPTION	START TIME	STOP TIME	TIME SAMPLED (MIN)	PUMP ID #	FLOW RATE (L/MIN)	VOLUME (L)
V01	2009049NY-05D/ s/n B26582	Burn_05_BR_04_1Day_AM	09:30	13:30	240	2018	0.074 L	17.84 L
V02	2009049NY-05E/ s/n B26892	Burn_05_BR_04_1Day_PM	13:45	17:45	240	2018	0.074 L	17.84 L
V03	2009049NY-05F/ s/n B26514	Burn_05_BR_04_1Day_60 min	14:31	15:31	240	2018	0.295 L	17.71 L
V01F	2009049NY-05G/ s/n B26102	Burn_05_BR_04_1Day_ Field Blank						n/a
					3387944			
Released By: SAM HORNER (Print/Sign)			Date/Time: 12OCT2020		Method of Shipment: UPS Next Day A			
Received By: <i>[Signature]</i>			Date/Time: 10/13/20 10:30 AM		Sample Condition: Acceptable			
					Description: 2009049NY Customer: UL Environment Inc. Received Date: 2020-OCT-14 09:05:17 AM Aurora Project No.: 1001053392 Order No.: Oracle Project No.:			