

FIELD SAMPLING TEST REPORT		
Customer Information  Customer Information		
HB Project Number	2011006NY_B18	
Date Received	November 24, 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	

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.

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.

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Date Issued: Product #: Report #: ©2020 UL LLC

UL ID:	SV1TFDF
Sample Date:	November 20, 2020
Volume (L):	18.0

Sample Location/Description	B18_LR_HALL_Field Blank
Total Volatile Organic Compounds	6.7 μg/m³

CAS	Compound	Concer	ntration
Number	Compound	μg/m³	ppb
13475-82-6	Heptane, 2,2,4,6,6-pentamethyl*	6.7	1.0
71-23-8	1-Propanol (Propyl alcohol)	2.2	0.9

UL ID:	SV1TFD
Sample Date:	November 20, 2020
Volume (L):	18.8

Sample Location/Description	B18_LR_HALL_Pre
Total Volatile Organic Compounds	1,430 μg/m³

CAS	Compound		ntration
Number	Compound	μg/m³	ppb
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4- trimethylpentyl ester (component of Texanol)	201	22.8
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	186	21.1
91-20-3	Naphthalene	73.7	14.1
108-88-3	Toluene (Methylbenzene)	71.0	18.8
66-25-1	Hexanal	38.4	9.4
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	37.2	6.7
98-01-1	Furfural (2-Furaldehyde)	31.2	7.9
142-96-1	n-Butyl ether	29.6	5.6
71-36-3	1-Butanol (N-Butyl alcohol)	28.0	9.2
144-19-4	1,3-Pentanediol, 2,2,4-trimethyl	27.7	4.6
112-41-4	1-Dodecene	27.7	4.0
111-76-2	Ethanol, 2-butoxy	26.7	5.5
108-95-2	Phenol	22.4	5.8
127-91-3	Pinene, beta (6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane)		3.6
96-29-7	2-Butanone, oxime*	19.6	5.5
67-64-1	Acetone	19.2	8.1
100-42-5	Styrene	18.8	4.4
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	18.1	3.5
104-76-7	1-Hexanol, 2-ethyl	17.6	3.3
112445-69-9	Hexanoic acid, 2-ethyl-, nonyl ester*	16.7	1.5
124-19-6	Nonyl aldehyde (Nonanal)	16.4	2.8
5989-27-5	D-Limonene*	16.4	2.9
71-43-2	Benzene	15.9	5.0
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	15.0	3.7
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	13.9	2.8
208-96-8	Acenaphthylene*	13.2	2.1
100-52-7	Benzaldehyde	13.1	3.0
110-62-3	Pentanal	12.7	3.6
140-67-0	Estragole (4-Allylanisole)	12.3	2.0
123-86-4	Acetate, butyl	12.2	2.6
100-47-0	Benzonitrile	11.9	2.8
25551-13-7	Trimethylbenzene (All Isomers)	11.3	2.3
2682-20-4	3(2H)-Isothiazolone, 2-methyl-*	11.1	2.4
112-53-8	1-Dodecanol*	11.1	1.5

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UL ID:	SV1TFD
Sample Date:	November 20, 2020
Volume (L):	18.8

CAS	Compound		ntration
Number	Compound	μg/m³	ppb
92-52-4	1,1'-Biphenyl*	10.8	1.7
1330-20-7	Xylenes (Total)	10.8	2.5
91-57-6	Naphthalene, 2-methyl	9.8	1.7
5877-42-9	1-Octyn-3-ol, 4-ethyl*	9.7	1.5
71-41-0	1-Pentanol (N-Pentyl alcohol)	9.4	2.6
1000099-98-7	1-Ethylpropyl 2-ethylhexanoate*	8.9	1.0
106-44-5	Phenol, 4-methyl (p-Cresol)*	8.6	1.9
142-62-1	Hexanoic acid	8.6	1.8
95-13-6	Indene*	8.1	1.7
541-02-6	Cyclopentasiloxane, decamethyl	8.1	0.5
108-65-6	1-Methoxy-2-propyl acetate*	7.5	1.4
95-48-7	Phenol, 2-methyl*	7.4	1.7
1002-69-3	Decane, 1-chloro*	7.2	1.0
112-40-3	Dodecane	7.0	1.0
99172-18-6	3,5-Heptadienal, 2-ethylidene-6-methyl-*	6.9	3.4
13187-99-0	2-Bromo dodecane*	6.5	0.6
1000309-21-9	Sulfurous acid, cyclohexylmethyl undecyl ester*	6.3	0.5
111-87-5	1-Octanol	6.2	1.2
106-62-7		6.0	1.1
620-02-0	1-Propanol, 2-(2-hydroxypropoxy) 2-Furancarboxaldehyde, 5-methyl*	5.9	1.3
109-67-1	1-Pentene	5.9	2.1
1000309-61-6	Oxalic acid, 4-chlorophenyl tetradecyl ester*	5.8	0.4
57-55-6		5.7	1.8
60044-74-8	1,2-Propanediol (Propylene glycol)	5.7 5.7	1.0
120-92-3	4-Ethoxy-2-butanone*	5.7 5.6	1.6
103-11-7	Cyclopentanone  2-Propenoic acid, 2-ethylhexyl ester (2-Ethylhexyl acrylate)	5.5	0.7
4265-25-2	Benzofuran, 2-methyl*	5.5	1.0
101-81-5	Benzene, 1,1'-Methylenebis (Diphenylmethane)	5.2	0.8
1070-32-2	1-Heptanol, 3-methyl-*	5.0	4.0
143-15-7	Dodecane, 1-bromo*	4.9	0.5
205983-99-9	2-Methoxyethyl 2-ethylhexanoate*	4.6	0.6
544-76-3	Hexadecane (Cetane)	4.6	0.5
100-41-4	Benzene, ethyl	4.5	1.0
1000333-92-5	2-Ethyl-1-butanol, methyl ether*	4.5	0.9
18891-13-9	Hexanedioic acid, ethyl methyl ester*	4.5	1.2
110-86-1	Pyridine	4.5	1.4
629-50-5	Tridecane	4.3	0.6
20286-46-8	Butyric acid, 1-propylpentyl ester*	4.3	0.5
13429-07-7	2-Propanol, 1-(2-methoxypropoxy)-*	4.0	0.7
3102-33-8	3-Penten-2-one, (E)-*	3.7	1.1
827-54-3	Naphthalene, 2-vinyl	3.6	0.6
1000296-76-1	6,7-Dihydro-5H-pyrrolo[2,1-c][1,2,4]triazole-3-carboxylic acid*	3.5	0.6
540-97-6	Cyclohexasiloxane, dodecamethyl	3.5	0.2
6712-79-4	Isopinocarveol*	3.4	0.5

UL ID:	SV1TFD
Sample Date:	November 20, 2020
Volume (L):	18.8

CAS	Concent		tration	
Number	S = 11, p = 11	μg/m³	ppb	
107-87-9	2-Pentanone*	3.4	1.0	
112-42-5	1-Undecanol	3.3	0.5	
623-42-7	Butanoic acid, methyl ester*	3.3	0.8	
1000327-11-8	3-Hydroxypropanoic acid 1-butyl ester*	3.1	0.5	
534-22-5	Furan, 2-methyl-*	2.9	0.9	
1000349-13-0	Malonic acid, 2-heptyl propyl ester*	2.9	0.3	
111-70-6	1-Heptanol	2.9	0.6	
103-44-6	Heptane, 3-[(ethenyloxy)methyl]*	2.8	0.4	
73992-48-0	7-Methoxymethyl-2,7-dimethylcyclohepta-1,3,5-triene*	2.8	0.4	
571-58-4	Naphthalene, 1,4-dimethyl	2.7	0.4	
5077-67-8	1-Hydroxy-2-butanone*	2.7	0.7	
123-91-1	1,4-Dioxane	2.6	0.7	
2463-77-6	2-Undecenal*	2.6	0.4	
33933-80-1	1-Nonanol, 4,8-dimethyl-*	2.5	0.4	
98-00-0	2-Furanmethanol*	2.5	0.6	
3363-56-2	2,5,6-Trimethylbenzimidazole*	2.5	0.4	
107-21-1	1,2-Ethanediol (Ethylene glycol)	2.4	1.0	
99-87-6	Benzene, 1-methyl-4-(1-methylethyl) (p-Cymene; 4-Isopropyltoluene)	2.4	0.4	
544-10-5	Hexane, 1-chloro*	2.4	0.5	
69121-76-2	2-Nonanol, 2-methylpropionate*	2.4	0.3	
2461-18-9	Oxirane, [(dodecyloxy)methyl]-*	2.1	0.2	
79-31-2	Propanoic acid, 2-methyl*	2.1	0.6	
4170-30-3	2-Butenal	2.1	0.7	
1703-52-2	Furan, 2-ethyl-5-methyl-*	2.1	0.5	
141-79-7	3-Penten-2-one, 4-methyl*	2.0	0.5	

UL ID:	SV2TFD
Sample Date:	November 21, 2020
Volume (L):	19.1

Sample Location/Description	B18_LR_HALL_Post
Total Volatile Organic Compounds	710 μg/m³

CAS	Compound		Compound		ntration
Number	Johnpound	μg/m³	ppb		
71-43-2	Benzene	47.6	14.9		
91-20-3	Naphthalene	39.3	7.5		
100-42-5	Styrene	32.0	7.5		
534-22-5	Furan, 2-methyl-*	28.0	8.3		
109-67-1	1-Pentene	27.4	9.6		
98-01-1	Furfural (2-Furaldehyde)	22.2	5.6		
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	17.7	4.3		
108-95-2	Phenol	17.6	4.6		
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	17.0	1.9		
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4- trimethylpentyl ester (component of Texanol)	16.7	1.9		
431-03-8	2,3-Butanedione	16.1	4.6		
108-88-3	Toluene (Methylbenzene)	15.7	4.2		
150-76-5	Mequinol*	15.2	3.0		
71-36-3	1-Butanol (N-Butyl alcohol)	14.4	4.8		
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	13.5	2.4		
100-52-7	Benzaldehyde	13.3	3.1		
27751-88-8	Propanoic acid, 2,2-dimethyl-, octyl ester*	12.9	1.5		
120-92-3	Cyclopentanone	12.6	3.7		
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	12.1	4.1		
53957-33-8	Benzenemethanol, 2,5-dimethyl-*	11.7	2.1		
95-65-8	Phenol, 3,4-dimethyl-*	10.1	2.0		
104-76-7	1-Hexanol, 2-ethyl	9.8	1.8		
66-25-1	Hexanal	9.3	2.3		
106-44-5	Phenol, 4-methyl (p-Cresol)*	9.0	2.0		
67-64-1	Acetone	8.4	3.5		
108-65-6	1-Methoxy-2-propyl acetate*	8.3	1.5		
64-19-7	Acetic acid	8.3	3.4		
91-10-1	Phenol, 2,6-dimethoxy*	7.8	1.2		
93-51-6	Phenol, 2-methoxy-4-methyl*	7.7	1.4		
95-48-7	Phenol, 2-methyl*	7.7	1.7		
98-00-0	2-Furanmethanol*	7.1	1.8		
92-52-4	1,1'-Biphenyl*	6.4	1.0		
5989-27-5	D-Limonene*	6.3	1.1		
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	6.3	1.3		
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	5.8	1.1		

Date Issued: Product #: Report #: ©2020 UL LLC

UL ID:	SV2TFD
Sample Date:	November 21, 2020
Volume (L):	19.1

CAS	Commonad	Concentration	
Number	Compound	μg/m³	ppb
5077-67-8	1-Hydroxy-2-butanone*	5.8	1.6
1330-20-7	Xylenes (Total)	5.7	1.3
100-41-4	Benzene, ethyl	5.6	1.3
111-43-3	Propane,1,1'-oxybis- (Di-n-propyl ether)*	5.6	1.3
121-33-5	Vanillin (Benzaldehyde, 4-hydroxy-3-methoxy-)*	5.5	0.9
600-14-6	2,3-Pentanedione*	5.3	1.3
102-62-5	Glycerol 1,2-diacetate*	5.1	0.7
19549-87-2	1-Heptene, 2,4-dimethyl*	5.1	1.0
110-86-1	Pyridine	5.0	1.5
623-36-9	2-Pentenal, 2-methyl*	4.9	1.2
10042-59-8	1-Heptanol, 2-propyl*	4.9	0.8
575-41-7	Naphthalene, 1,3-dimethyl-*	4.8	0.8
697-82-5	Phenol, 2,3,5-trimethyl-*	4.8	0.9
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-*	4.7	1.0
71-23-8	1-Propanol (Propyl alcohol)	4.7	1.9
13547-07-4	Cyclohexene, 1-chloro-5-(1-chloroethenyl)-*	4.5	0.6
112-15-2	Ethanol, 2-(2-ethoxyethoxy), acetate*	4.4	0.6
6638-05-7	3,5-Dimethoxy-4-hydroxytoluene*	4.2	0.6
91-57-6	Naphthalene, 2-methyl	4.2	0.7
50996-03-7	Benzamide, N-(2-oxopropyl)-*	4.1	0.6
620-02-0	2-Furancarboxaldehyde, 5-methyl*	4.0	0.9
541-02-6	Cyclopentasiloxane, decamethyl	4.0	0.3
765-70-8	1,2-Cyclopentanedione, 3-methyl*	4.0	0.9
208-96-8	Acenaphthylene*	3.9	0.6
611-13-2	Methyl 2-furoate*	3.9	0.7
2785-89-9	Phenol, 4-ethyl-2-methoxy*	3.9	0.6
2550-21-2	2-Hexanone, 3-methyl*	3.8	0.8
1000079-39-0	N-Benzyl-2-aminocinnamate, methyl ester*	3.8	0.3
123-07-9	Phenol, 4-ethyl-*	3.7	0.7
123-86-4	Acetate, butyl	3.6	0.8
95-13-6	Indene*	3.5	0.0
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	3.5	0.8
1000187-36-8	6-Hydroxymethyl-5-methyl-bicyclo[3.1.0]hexan-2-one*	3.5	0.6
142-62-1	Hexanoic acid	3.4	0.7
6712-79-4	Isopinocarveol*	3.3	0.7
141-79-7	3-Penten-2-one, 4-methyl*	3.3	0.8
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	3.2	0.7
643-93-6	1,1'-Biphenyl, 3-methyl	3.2	0.7
536-60-7	Benzenemethanol, 4-(1-methylethyl)*	3.1	0.5
91-22-5	Quinoline*	3.1	0.6
111-76-2	Ethanol, 2-butoxy	3.0	0.6
56588-40-0	1H-Indene-1,2-diol, 2,3-dihydro-2-methyl-, cis-*	3.0	0.5
3855-26-3	Phenol, 2-ethyl-4-methyl-*	3.0	0.5
1000369-65-4	Diethylmalonic acid, pentyl 3-phenylpropyl ester*	3.0	0.3
3404-75-9	2-Heptene, 3-methyl-*	3.0	0.2

UL ID:	SV2TFD
Sample Date:	November 21, 2020
Volume (L):	19.1

CAS	Concentration		ntration
Number	Compound	μg/m³	ppb
7473-98-5	2-Hydroxy-iso-butyrophenone*	2.9	0.4
71-41-0	1-Pentanol (N-Pentyl alcohol)	2.8	0.8
1000196-88-1	2-Furanone, 2,5-dihydro-3,5-dimethyl*	2.8	0.6
1193-11-9	1,3-Dioxolane, 2,2,4-trimethyl*	2.7	0.6
625-33-2	3-Penten-2-one*	2.7	0.8
3102-33-8	3-Penten-2-one, (E)-*	2.5	0.7
7402-29-1	Butanoic acid, 3-phenylpropyl ester*	2.5	0.3
79-09-4	Propanoic acid	2.5	0.8
627-93-0	Dimethyl adipate*	2.5	0.3
115-18-4	3-Buten-2-ol, 2-methyl*	2.4	0.7
85763-57-1	11-Methyldodecanol*	2.4	0.3
4170-30-3	2-Butenal	2.4	0.8
75-05-8	Acetonitrile	2.3	1.4
17312-62-8	Decane, 5-propyl*	2.3	0.3
25551-13-7	Trimethylbenzene (All Isomers)	2.3	0.5
821-95-4	1-Undecene	2.3	0.4
769-78-8	Vinyl benzoate*	2.3	0.4
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	2.2	0.5
2503-46-0	2-Propanone, 1-(4-hydroxy-3-methoxyphenyl)-*	2.1	0.3
98-82-8	Benzene, 1-methylethyl (Cumene)	2.0	0.4
17583-40-3	Benzonitrile, 2-(methylamino)-*	2.0	0.4
1000322-51-9	1-Isopropyl-1H-indole*	2.0	0.3
14368-41-3	3-Phenyl-2-pentenenitrile*	2.0	0.3

UL ID:	SV3TFD
Sample Date:	November 21, 2020
Volume (L):	26.2

Sample Location/Description	B18_LR_HALL_HZA
Total Volatile Organic Compounds	4,400 μg/m³

CAS Compound		Compound	
Number	Compound	μg/m³	ppb
71-43-2	Benzene	140	43.9
631-61-8	Ammonium acetate*	135	42.8
91-20-3	Naphthalene	118	22.4
98-01-1	Furfural (2-Furaldehyde)	93.3	23.8
100-42-5	Styrene	91.7	21.5
108-95-2	Phenol	75.9	19.7
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	69.7	14.2
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1- Methylethenyl)benzene)	69.1	14.3
108-88-3	Toluene (Methylbenzene)	68.8	18.3
93-51-6	Phenol, 2-methoxy-4-methyl*	68.2	12.1
91-57-6	Naphthalene, 2-methyl	67.6	11.6
90-05-1	Phenol, 2-methoxy*	67.4	13.3
95-13-6	Indene*	65.2	13.7
106-88-7	Oxirane, ethyl*	64.9	22.0
100-52-7	Benzaldehyde	63.3	14.6
91-10-1	Phenol, 2,6-dimethoxy*	63.0	10.0
108-65-6	1-Methoxy-2-propyl acetate*	62.6	11.6
1330-20-7	Xylenes (Total)	59.1	13.6
104-76-7	1-Hexanol, 2-ethyl	57.8	10.9
5932-68-3	trans-Isoeugenol*	57.0	8.5
92-52-4	1,1'-Biphenyl*	52.2	8.3
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4- trimethylpentyl ester (component of Texanol)	51.8	5.9
106-44-5	Phenol, 4-methyl (p-Cresol)*	51.4	11.6
2177-47-1	2-Methylindene*	50.7	9.5
74419-68-4	Histamine, N-benzoyl-2-cyano-*	50.4	5.1
116-09-6	2-Propanone, 1-hydroxy	50.2	16.6
98-00-0	2-Furanmethanol*	48.6	12.1
208-96-8	Acenaphthylene*	46.8	7.5
579-07-7	1,2-Propanedione, 1-phenyl	46.2	7.6
1000411-44-3	6-Hydroxy-2,6-dihydropyran-3-one*	45.1	9.7
621-58-9	Phenol, 5-ethenyl-2-methoxy-*	45.0	7.3
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	44.7	10.9
765-70-8	1,2-Cyclopentanedione, 3-methyl*	43.7	9.5
25551-13-7	Trimethylbenzene (All Isomers)	43.7	8.9

Date Issued: Product #: Report #: ©2020 UL LLC

UL ID:	SV3TFD
Sample Date:	November 21, 2020
Volume (L):	26.2

CAS	Commound	Concentration	
Number	Compound	μg/m³	ppb
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	43.1	7.7
767-60-2	1H-Indene, 3-methyl*	42.2	7.9
4265-25-2	Benzofuran, 2-methyl*	42.0	7.8
5989-27-5	D-Limonene*	41.6	7.5
100-41-4	Benzene, ethyl	41.3	9.5
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	41.0	4.6
95-48-7	Phenol, 2-methyl*	40.7	9.2
110-62-3	Pentanal	39.8	11.3
105-67-9	Phenol, 2,4-dimethyl	39.4	7.9
111-43-3	Propane,1,1'-oxybis- (Di-n-propyl ether)*	39.2	9.4
541-02-6	Cyclopentasiloxane, decamethyl	39.0	2.6
498-07-7	1,6-AnhydrobetaD-glucopyranose (levoglucosan)*	38.8	5.9
874-23-7	Cyclohexanone, 2-acetyl*	38.7	6.7
100-47-0	Benzonitrile	38.1	9.0
22410-74-8	2,6-Octadien-1-ol, 2,7-dimethyl*	37.4	5.9
6638-05-7	3,5-Dimethoxy-4-hydroxytoluene*	35.9	5.2
2785-89-9	Phenol, 4-ethyl-2-methoxy*	34.9	5.6
612-17-9	1,4-Dihydronaphthalene*	34.8	6.5
66-25-1	Hexanal	34.8	8.5
91337-07-4	2-Isopropyl-5-methyl-1-heptanol*	34.6	4.9
142-62-1	Hexanoic acid	32.8	6.9
123-07-9	Phenol, 4-ethyl-*	32.8	6.6
534-22-5	Furan, 2-methyl-*	32.4	9.7
78-94-4	Methyl vinyl ketone (3-Buten-2-one)	31.8	11.1
620-02-0	2-Furancarboxaldehyde, 5-methyl*	31.8	7.1
1000309-57-5	Oxalic acid, 2-isopropylphenyl pentadecyl ester*	31.4	1.8
6100-74-9	Ethanone, 1-(3-hydroxy-4-methoxyphenyl)-*	31.0	4.6
143-13-5	Acetic acid, nonyl ester*	30.7	4.0
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	30.1	5.7
3536-54-7	Bicyclo[3.1.0]hexan-3-ol, 4-methylene-1-(1-methylethyl)-, acetate*	29.9	3.8
20481-17-8	5-tert-Butylpyrogallol*	29.6	4.0
110-86-1	Pyridine	27.9	8.6
19550-03-9	2-Hexanol, 2,3-dimethyl-*	27.2	5.1
78-83-1	1-Propanol, 2-methyl (Isobutyl alcohol)	25.3	8.4
10059-13-9	2-Undecanethiol, 2-methyl*	24.3	2.9
52019-78-0	2-Hexanol, (S)*	24.3	5.8
930-27-8	Furan, 3-methyl*	23.8	7.1
541-05-9	Cyclotrisiloxane, hexamethyl	23.8	2.6
115-18-4	3-Buten-2-ol, 2-methyl*	23.2	6.6
83-32-9	Acenaphthene	22.3	3.5
600-14-6	2,3-Pentanedione*	21.8	5.3
1000349-13-5	Malonic acid, 2-heptyl hexyl ester*	21.8	1.9
5077-67-8	1-Hydroxy-2-butanone*	21.4	5.9

UL ID:	SV3TFD
Sample Date:	November 21, 2020
Volume (L):	26.2

CAS	Compound	Concentration	
Number	Number		ppb
821-95-4	1-Undecene	21.2	3.4
43067-41-0	1H-Indazole, 5,7-dimethyl-*	20.6	3.4
111-76-2	Ethanol, 2-butoxy	20.5	4.2
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	20.2	6.9
14641-93-1	.alphaD-Glucopyranose, 4-ObetaD- galactopyranosyl-*	19.6	1.4
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	19.4	4.3
1000129-98-0	2,3-Anhydro-d-mannosan*	19.3	3.3
85763-57-1	11-Methyldodecanol*	19.2	2.3
105-37-3	Propanoic acid,ethyl ester (Ethyl propionate)	18.7	4.5
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	18.5	3.9
99-94-5	Benzoic acid, 4-methyl-*	18.2	3.3
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	17.4	4.4
1000187-01-2	1,2-Dimethyl-4-oxocyclohex-2- enecarboxaldehyde*	16.8	2.7
4170-30-3	2-Butenal	16.7	5.8
60-35-5	Acetamide	16.4	6.8
96-33-3	2-Propenoic acid, methyl ester*	16.3	4.6
90-12-0	Naphthalene, 1-methyl	15.9	2.7
112-70-9	1-Tridecanol	15.7	1.9
		15.7	2.6
10031-87-5	Acetic acid, 2-ethylbutyl ester*		
120-92-3	Cyclopentanone	15.4	4.5
3008-40-0	1,2-Cyclopentanedione*	15.3	3.8
67-64-1	Acetone	14.9	6.3
3102-33-8	3-Penten-2-one, (E)-*	14.7	4.3
110-19-0	Acetic acid, 2-methylpropyl ester (Isobutyl acetate)*	14.5	3.0
2503-46-0	2-Propanone, 1-(4-hydroxy-3-methoxyphenyl)-*	14.1	1.9
627-08-7	Propane, 1-(1-methylethoxy)*	13.8	3.3
105-46-4	Acetic acid, 1-methylpropyl ester*	13.6	2.9
1127-76-0	Naphthalene, 1-ethyl*	13.2	2.1
1530-05-8	Heptane, 1,1-diphenyl-*	13.0	1.3
23783-42-8	Tetraethyleneglycol monomethylether*	12.1	1.1
118-71-8	Maltol*	11.8	2.3
121-33-5	Vanillin (Benzaldehyde, 4-hydroxy-3-methoxy-)*	11.6	1.9
98-82-8	Benzene, 1-methylethyl (Cumene)	11.4	2.3
26465-81-6	1H-Inden-1-one, 2,3-dihydro-3,3-dimethyl*	11.3	1.7
14368-41-3	3-Phenyl-2-pentenenitrile*	11.1	1.7
20030-70-0	Cyclopropanecarboxylic acid, 2-phenyl-, methyl ester*	11.1	1.5
2785-87-7	Phenol, 2-methoxy-4-propyl-*	11.0	1.6
496-11-7	Indane	10.7	2.2
873-49-4	Cyclopropylbenzene	10.2	2.1
105-38-4	Propanoic acid, ethenyl ester*	10.0	2.4
3208-16-0	Furan, 2-ethyl	9.8	2.5
513-86-0	2-Butanone, 3-hydroxy*	9.7	2.7

UL ID:	SV3TFD
Sample Date:	November 21, 2020
Volume (L):	26.2

CAS	Compound	Concentration	
Number	Compound	μg/m³	ppb
94-33-7	1,2-Ethanediol, monobenzoate*	9.7	1.4
110-13-4	2,5-Hexanedione*	8.9	1.9
19549-72-5	3-Heptanol, 2,4-dimethyl*	8.9	1.5
1119-40-0	Dimethyl glutarate	8.7	1.3
79-20-9	Acetate, methyl (Acetic acid, methyl ester)	8.4	2.8
109-08-0	Pyrazine, methyl*	8.3	2.2
646-06-0	1,3-Dioxolane	8.0	2.6
124-19-6	Nonyl aldehyde (Nonanal)	8.0	1.4
33467-76-4	2-Hepten-1-ol, (E)-*	7.9	1.7
109-67-1	1-Pentene	7.7	2.7
6137-06-0	2-Heptanone, 4-methyl*	7.4	1.4
530-48-3	Ethylene, 1,1-diphenyl-*	7.2	1.0
109-06-8	Pyridine,2-methyl (2-Picoline)*	7.1	1.9
15176-21-3	1,4-Dioxane, 2,5-dimethyl*	7.0	1.5
126-98-7	2-Propenenitrile, 2-methyl-*	7.0	2.5
70220-06-3	3-Hexene, 1-methoxy, (Z)-*	6.9	1.5
107-21-1	1,2-Ethanediol (Ethylene glycol)	6.5	2.6
78-85-3	2-Propenal, 2-methyl	5.7	2.0
7446-09-5	Sulfur dioxide	5.4	2.1
1193-11-9	1,3-Dioxolane, 2,2,4-trimethyl*	5.3	1.1
544-76-3	Hexadecane (Cetane)	5.1	0.5
290-37-9	Pyrazine	5.1	1.5
3726-46-3	Cyclopentane, 1-ethyl-2-methyl-*	5.0	1.1
1487-18-9	Vinylfuran*	4.9	1.3
141-79-7	3-Penten-2-one, 4-methyl*	4.8	1.2
4359-46-0	1,3-Dioxolane, 2-ethyl-4-methyl*	4.7	1.0
23542-51-0	1-Pentene, 5-nitro-*	4.7	1.0
6343-47-1	3-Diethylamino-2,2-dimethylpropionaldehyde*	4.4	0.7
13019-20-0	3-Heptanone, 2-methyl*	3.2	0.6
627-69-0	1,2-Propanediol, 1-acetate*	3.0	0.6
1000334-81-5	2,4-Dioxaundecane*	2.8	0.4
107-18-6	2-Propen-1-ol*	2.7	1.1
692-24-0	3-Hexene, 2-methyl, (E)*	2.5	0.6
3710-43-8	2,4-Dimethylfuran*	2.3	0.6
75-05-8	Acetonitrile	2.2	1.3
71-23-8	1-Propanol (Propyl alcohol)	2.0	0.8

UL ID:	SV4TFD
Sample Date:	November 21, 2020
Volume (L):	15.5

Sample Location/Description	B18_House_B_FP
Total Volatile Organic Compounds	3,600 μg/m³

CAS	Compound	Concentration	
Number	Number		ppb
71-43-2	Benzene	181	56.5
65-85-0	Benzoic Acid*	163	32.7
100-42-5	Styrene	157	36.9
64-19-7	Acetic acid	153	62.1
17882-01-8	Phenol, 3-[(trimethylsilyl)oxy]-*	121	16.2
108-88-3	Toluene (Methylbenzene)	97.4	25.9
100-41-4	Benzene, ethyl	94.6	21.8
98-01-1	Furfural (2-Furaldehyde)	77.8	19.8
498-07-7	1,6-AnhydrobetaD-glucopyranose (levoglucosan)*	74.4	11.2
1000130-14-7	d-Glycero-d-tallo-heptose*	68.7	8.0
112-25-4	Ethanol, 2-(hexyloxy)*	67.3	11.2
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1- Methylethenyl)benzene)	67.0	13.9
104-76-7	1-Hexanol, 2-ethyl	61.0	11.5
5932-68-3	trans-Isoeugenol*	59.4	8.9
1000350-18-9	2H-1,4-Thiazine-2-acetamide, N-(2,5-dimethoxyphenyl)tetrahydro-3-oxo-*	55.5	4.4
120-80-9	1,2-Benzenediol*	52.7	11.7
40123-34-0	2,6-Dimethoxyphenylbetaphenylpropionate*	51.4	4.4
59832-96-1	Guaiacol, 4-butyl-*	49.4	6.7
2595-97-3	D-Allose*	48.8	6.6
5989-27-5	D-Limonene*	48.1	8.6
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	46.0	11.2
99-94-5	Benzoic acid, 4-methyl-*	45.6	8.2
1330-20-7	Xylenes (Total)	44.7	10.3
116-09-6	2-Propanone, 1-hydroxy	44.1	14.6
112-05-0	Nonanoic acid	42.7	6.6
2896-60-8	1,3-Benzenediol, 4-ethyl*	41.9	7.4
33524-31-1	2,5-Dimethoxybenzyl alcohol*	40.2	5.8
91-20-3	Naphthalene	40.1	7.7
585-34-2	Phenol, m-tert-butyl*	38.3	6.2
24625-82-9	2- Bromopropionic acid, octyl ester*	38.1	3.5
488-17-5	1,2-Benzenediol, 3-methyl-*	36.7	7.2
600-14-6	2,3-Pentanedione*	35.8	8.7
110-62-3	Pentanal	35.7	10.1

Date Issued: Product #: Report #: ©2020 UL LLC

UL ID:	SV4TFD
Sample Date:	November 21, 2020
Volume (L):	15.5

CAS Number	Compound	Concentration	
	Compound	μg/m³	ppb
55956-25-7	2-Propanol, 1-[1-methyl-2-(2- propenyloxy)ethoxy]*	34.9	4.9
14372-00-0	Cyclopropanecarboxamide, N-n-butyl*	34.7	6.0
620-02-0	2-Furancarboxaldehyde, 5-methyl*	32.8	7.3
66-25-1	Hexanal	32.7	8.0
452-86-8	1,2-Benzenediol, 4-methyl-*	29.8	5.9
1541-20-4	Bi-2-cyclohexen-1-yl*	29.8	11.7
3404-67-9	Hexane, 3-methyl-4-methylene*	29.1	6.3
1638-16-0	2-Propanol, 1,1'-[(1-methyl-1,2- ethanediyl)bis(oxy)]bis*	28.9	3.7
105-60-2	Caprolactam	28.2	6.1
5077-67-8	1-Hydroxy-2-butanone*	28.2	7.8
1075-49-6	4-Vinylbenzoic acid*	27.3	4.5
930-30-3	2-Cyclopenten-1-one*	26.5	7.9
2785-89-9	Phenol, 4-ethyl-2-methoxy*	25.4	4.1
496-11-7	Indane	25.3	5.2
39986-37-3	2,4-Dimethyl-2-oxazoline-4-methanol*	24.8	4.7
19549-87-2	1-Heptene, 2,4-dimethyl*	24.5	4.7
1000129-98-0	2,3-Anhydro-d-mannosan*	23.4	4.0
94-33-7	1,2-Ethanediol, monobenzoate*	23.3	3.4
22410-74-8	2,6-Octadien-1-ol, 2,7-dimethyl*	23.3	3.7
99-86-5	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-*	23.3	4.2
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	23.1	4.9
10020-43-6	Ethanol, 2-(octyloxy)-*	23.0	3.2
498-02-2	Ethanone, 1-(4-hydroxy-3-methoxyphenyl)-*	23.0	3.4
100-52-7	Benzaldehyde	22.6	5.2
126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-diol*	22.5	2.4
107-21-1	1,2-Ethanediol (Ethylene glycol)	22.0	8.7
4792-15-8	Pentaethylene glycol*	21.5	2.2
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	20.6	3.9
6117-80-2	2-Butene-1,4-diol, (Z)-*	20.1	5.6
60-35-5	Acetamide	20.1	8.3
6262-87-9	Benzenethiol, o-isopropyl-,*	20.0	3.2
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	20.0	3.6
98-82-8	Benzene, 1-methylethyl (Cumene)	19.9	4.1
1000309-11-7	Sulfurous acid, hexyl 2-propyl ester*	18.5	2.2
25551-13-7	Trimethylbenzene (All Isomers)	17.8	3.6
71-41-0	1-Pentanol (N-Pentyl alcohol)	17.6	4.9
615-90-7	1,4-Benzenediol, 2,5-dimethyl-*	17.5	3.1
1000151-86-0	3-Caren-10-al*	17.5	2.8
71-36-3	1-Butanol (N-Butyl alcohol)	17.3	5.7
107-06-2	Ethane, 1,2-dichloro	17.1	4.2
541-05-9	Cyclotrisiloxane, hexamethyl	17.1	1.9
109-69-3	Butane, 1-chloro	16.8	4.4
109-08-0	Pyrazine, methyl*	16.6	4.3

UL ID:	SV4TFD
Sample Date:	November 21, 2020
Volume (L):	15.5

CAS	Compound	Concentration	
Number	Compound	μg/m³	ppb
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	16.4	3.3
10374-51-3	5-(Hydroxymethyl)dihydrofuran-2(3H)-one*	16.2	3.4
93-51-6	Phenol, 2-methoxy-4-methyl*	16.0	2.8
5131-66-8	2-Propanol, 1-butoxy	16.0	3.0
109-97-7	Pyrrole*	15.8	5.8
105-30-6	1-Pentanol, 2-methyl*	15.5	3.7
765-43-5	Ethanone, 1-cyclopropyl*	14.9	4.3
3944-37-4	1-Propanol, 2-(1-methylethoxy)-*	14.9	3.1
100-47-0	Benzonitrile	14.7	3.5
4170-30-3	2-Butenal	14.5	5.1
2425-77-6	1-Decanol, 2-hexyl*	14.2	1.4
108-65-6	1-Methoxy-2-propyl acetate*	13.9	2.6
95-13-6	Indene*	13.7	2.9
95-65-8	Phenol, 3,4-dimethyl-*	13.4	2.7
541-02-6	Cyclopentasiloxane, decamethyl	13.2	0.9
7659-86-1	2-Ethylhexyl mercaptoacetate*	13.2	1.6
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	12.6	3.2
821-95-4	1-Undecene	11.4	1.8
1703-52-2	Furan, 2-ethyl-5-methyl-*	10.9	2.4
13393-63-0	Benzene, 1,4,9-decatrienyl-*	10.6	1.2
534-22-5	Furan, 2-methyl-*	10.1	3.0
127-19-5	Acetamide, N,N-dimethyl-*	9.6	2.7
765-03-7	1-Dodecyne	9.2	1.4
19780-66-6	1-Pentene, 3-ethyl-2-methyl	9.1	2.0
103-65-1	Benzene, propyl	9.1	1.8
7250-85-3	2-Butene, 1,4-diethoxy-*	8.9	1.5
59383-67-4	2-Cyclobutyl-2-propanol*	8.4	1.8
586-62-9	Cyclohexene, 1-methyl-4-(1-methylethylidene)*	8.2	1.5
4850-28-6	Cyclopentane, 1,2,4-trimethyl, (1a,2a,4a)-*	7.8	1.7
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	7.6	1.7
61142-79-8	1-Decene, 8-methyl-*	7.0	1.1
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	6.1	2.1
25044-01-3	1-Penten-3-one, 2-methyl-*	6.1	1.5
68-12-2	Formamide, N,N-dimethyl*	6.0	2.0
99-87-6	Benzene, 1-methyl-4-(1-methylethyl) (p-Cymene; 4-Isopropyltoluene)	5.6	1.0
78-94-4	Methyl vinyl ketone (3-Buten-2-one)	5.4	1.9
513-86-0	2-Butanone, 3-hydroxy*	5.2	1.4
95-54-5	1,2-Benzenediamine*	5.2	1.2
6137-06-0	2-Heptanone, 4-methyl*	5.1	1.0
4160-49-0	Bicyclo[3.1.0]hexan-2-one*	4.9	1.3
143-08-8	1-Nonanol*	4.9	0.8
1193-11-9	1,3-Dioxolane, 2,2,4-trimethyl*	4.9	1.0
4359-46-0	1,3-Dioxolane, 2-ethyl-4-methyl*	4.5	0.9
1487-18-9	Vinylfuran*	4.4	1.2
505-22-6	1,3-Dioxane*	4.4	1.2

UL ID:	SV4TFD
Sample Date:	November 21, 2020
Volume (L):	15.5

CAS	Compound	Conce	Concentration	
Number	Compound	μg/m³	ppb	
563-80-4	2-Butanone, 3-methyl*	4.1	1.2	
3848-24-6	2,3-Hexanedione*	4.0	0.8	
67-64-1	Acetone	3.5	1.5	
24648-33-7	2,4,6-Trimethyl-1,3,6-heptatriene*	3.3	0.6	
464-17-5	Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethyl*	3.3	0.6	
289-95-2	1,3-Diazine*	3.1	0.9	
5076-20-0	Oxirane, tetramethyl-*	2.9	0.7	
3710-43-8	2,4-Dimethylfuran*	2.7	0.7	
79-20-9	Acetate, methyl (Acetic acid, methyl ester)	2.1	0.7	
13057-17-5	Bromomethyl methyl ether*	2.0	0.4	

Individual compounds and 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.

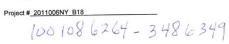
Values below 2.0  $\mu$ g/m³ are for information purposes only. Chemical was detected, but below the quantifiable level of 0.04  $\mu$ g based on a standard of 18 L air collection volume.

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  $\leq$  36 ng of individual VOCs.

Date Issued: Product #: Report #: ©2020 UL LLC

<sup>&</sup>lt;sup>†</sup>Denotes quantified using multipoint authentic standard curve. Other VOCs quantified relative to toluene.

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ALDEHYDE S	vay #100  RGANICS: IVOC	Phone: 571.655  Fax: 703.32  SCAN: TO  RMALDEHYDE ON	3.4440	TVOCON		ole Date:	11006NY_B 21 Nov SAM.H	2020	
VOLATILE OF ALDEHYDE S	RGANICS: IVOC	Fax: 703.32	3.4440	TVOCON					
VOLATILE OF ALDEHYDE S	SCAN: FO	SCAN:x_TC		TVOCON	Inves	tigator:	SAM.H	ORNER	
ALDEHYDE S	SCAN: FO		P 20 IVOC _	TVOC ON		Investigator: SAM.HORNER			
TAT: Standar		RMALDEHYDE ON		1000 0N	LY OTHER	B.T.E.X.			
	d Y Novt D	ORMALDEHYDE ONLY ANALYSIS: LEED			EED V4 LEED	) V4 LEED V4.1 OTHER <u>B.T.E.X.</u>			
) Meek TAT Die	u Next D	ay Rush* * R	ush charges ap	oply; please call	in advance to confi	rm availability			
.) WEEK IAT FIE	ease – Looking fo	or results December	r 8th. Thank yo	ou					
37 (IVII LL 18)			START TIME	STOP TIME	TIME SAMPLED (MIN)	PUMP ID #	FLOW RATE (L/MIN)	VOLUME (L)	
1006NY-18A/ B26960	B18 _LR_Hall_Pre		20 Nov 14:25	20 Nov 15:25	60	4257	0.3127	18.7599	
11006NY-18B/ B26946	B18_LR_HALL_Post		21 Nov 12:19	21 Nov 13:19	60	4257	0.3176	19.0572	
11006NY-18C/ B26288	B18_LR_HALL_HZA		21 Nov 11:27	21 Nov 12:08	41	5516	0.6388	26.1922	
11006NY-18D/ B26910	B18_LR_HALL_Field Blank					-		n/a	
	B18_House_	B_FP	21 Nov 11:09	21 Nov 11:34	25	5102	0.6189	15.4714	
					3486349			349	
Camacho Tirado	Date/Time: 23Nov	2020			2011006NY_B18				
Borton	Date/Time: 11/24/20	10:53 AM	Sample Condit	ptable	Received Date	Auror	a Project No.	: 1001086264	
11111111111	TUBE ID  1006NY-18A/ 826960  1006NY-18B/ 826946  1006NY-18C/ 826288  1006NY-18D/ 826910  1006NY-18B/ 827019	TUBE ID DESCI 1006NY-18A/ B18 _LR_Ha B26960 1006NY-18B/ B18_LR_HAI B26946 1006NY-18C/ B18_LR_HAI B26930 1006NY-18D/ B18_LR_HAI B26910 1006NY-18E/ B18_House_ Camacho Tirado  Date/Time: 23Nov	TUBE ID DESCRIPTION  1006NY-18A/ B18 _ LR _ Hall _ Pre  826960 1006NY-18B/ B18 _ LR _ HALL _ Post 826946 1006NY-18C/ B18 _ LR _ HALL _ HZA 826288 1006NY-18D/ B18 _ LR _ HALL _ Field Blank 826910 1006NY-18E/ B18 _ House _ B _ FP  Camacho Tirado  Camacho Tirado  Date/Time: 23Nov2020	TUBE ID	DESCRIPTION   TIME   TIME   TIME   1006NY-18A/   B18 LR HAIL Pre   20 Nov   14:25   15:25   1006NY-18B/   B18 LR HALL Post   21 Nov   12:19   13:19   1006NY-18C/   B18 LR HALL HZA   21 Nov   21 Nov   11:27   12:08   1006NY-18D/   B18 LR HALL Field Blank   B26988   B18 LR HALL Field Blank   B18 House B FP   21 Nov   21 Nov   11:34	SAMPLE ID/   DESCRIPTION   START   STOP   SAMPLED (MIN)	SAMPLE ID/   DESCRIPTION   START   STOP   TIME   TIME   TIME   TIME   SAMPLED (MIN)   #	SAMPLE ID/   DESCRIPTION   TIME   TIME   SAMPLED   H   RATE   (L/MIN)     #   (L/MIN)	

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