FIELD SAMPLING TEST REPORT	
Customer Information	UL VERIFICATION SERVICES, INC. LST.FAI.HBDCResults@ul.com 3251 Old Lee Highway, Suite 100 Fairfax VA 22030 USA
HB Project Number	2011006NY_B16
Date Received	November 17, 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.

Date Issued: November 23, 2020
Product #: 1001086264-3469419
Report #: 1001086264-3469419

UL ID:	SV1TFDF
Sample Date:	November 15, 2020
Volume (L):	18.0

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B16_LR_Hall_Field Blank
Total Volatile Organic Compounds	8.1 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	8.1	0.9
109-67-1	1-Pentene	3.8	1.3

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Volume (L):	18.0

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B16_LR_Hall_Pre
Total Volatile Organic Compounds	1,380 µg/m³

CAS Number	Compound	Concentration	
		µg/m³	ppb
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	235	26.5
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	215	24.3
108-88-3	Toluene (Methylbenzene)	117	30.9
66-25-1	Hexanal	56.6	13.8
64-19-7	Acetic acid	47.8	19.5
111-76-2	Ethanol, 2-butoxy	41.2	8.5
91-20-3	Naphthalene	39.3	7.5
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	36.4	6.5
142-96-1	n-Butyl ether	34.1	6.4
71-36-3	1-Butanol (N-Butyl alcohol)	30.8	10.2
112-41-4	1-Dodecene	29.7	4.3
98-01-1	Furfural (2-Furaldehyde)	23.4	6.0
590-86-3	Butanal, 3-methyl*	23.3	6.6
144-19-4	1,3-Pentanediol, 2,2,4-trimethyl	22.2	3.7
127-91-3	Pinene, beta (6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane)	20.7	3.7
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	19.2	6.5
---	Unresolved hydrocarbons	18.8	2.0
104-76-7	1-Hexanol, 2-ethyl	18.6	3.5
5989-27-5	D-Limonene*	15.8	2.8
108-95-2	Phenol	15.6	4.0
123-86-4	Acetate, butyl	15.2	3.2
71-41-0	1-Pentanol (N-Pentyl alcohol)	13.3	3.7
1330-20-7	Xylenes (Total)	12.5	2.9
110-43-0	2-Heptanone	12.2	2.6
625-38-7	3-Butenoic acid*	11.7	3.3
124-19-6	Nonyl aldehyde (Nonanal)	11.6	2.0
25551-13-7	Trimethylbenzene (All Isomers)	11.5	2.3
100-42-5	Styrene	10.2	2.4
541-02-6	Cyclopentasiloxane, decamethyl	10.0	0.7
10032-15-2	Butanoic acid, 2-methyl-, hexyl ester*	8.8	1.2
100-52-7	Benzaldehyde	8.5	2.0
108-65-6	1-Methoxy-2-propyl acetate*	7.8	1.4
589-34-4	Hexane, 3-methyl	7.4	1.8
57-55-6	1,2-Propanediol (Propylene glycol)	7.4	2.4
2682-20-4	3(2H)-Isothiazolone, 2-methyl-*	7.3	1.5

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CAS Number	Compound	Concentration	
		µg/m³	ppb
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	7.1	1.7
67-64-1	Acetone	7.1	3.0
108-68-9	Phenol, 3,5-dimethyl-*	6.9	1.4
78-83-1	1-Propanol, 2-methyl (Isobutyl alcohol)	6.8	2.2
140-67-0	Estragole (4-Allylanisole)	6.5	1.1
71-43-2	Benzene	6.3	2.0
79-31-2	Propanoic acid, 2-methyl*	6.1	1.7
108-10-1	2-Pentanone, 4-methyl (Methyl isobutyl ketone, MIBK)	6.0	1.5
111-87-5	1-Octanol	6.0	1.1
1000309-21-9	Sulfurous acid, cyclohexylmethyl undecyl ester*	5.9	0.4
1000191-08-0	1-Hydroxy-4,4-dimethylcyclohexanecarbonitrile*	5.6	0.9
1000099-98-7	1-Ethylpropyl 2-ethylhexanoate*	5.5	0.6
208-96-8	Acenaphthylene*	5.5	0.9
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	5.4	1.1
620-02-0	2-Furancarboxaldehyde, 5-methyl*	5.4	1.2
120-92-3	Cyclopentanone	5.3	1.5
91-57-6	Naphthalene, 2-methyl	5.2	0.9
92-52-4	1,1'-Biphenyl*	5.1	0.8
1000293-49-9	4-Ethylbenzoic acid, 2-ethylhexyl ester*	4.8	1.9
68-12-2	Formamide, N,N-dimethyl*	4.6	1.5
142-62-1	Hexanoic acid	4.6	1.0
112-53-8	1-Dodecanol*	4.4	0.6
100-41-4	Benzene, ethyl	4.4	1.0
6846-50-0	TXIB (2,2,4-Trimethyl-1,3-pentanediol diisobutyrate)	4.2	0.4
591-76-4	Hexane, 2-methyl	3.8	0.9
109-67-1	1-Pentene	3.7	1.3
107-87-9	2-Pentanone*	3.7	1.1
1000309-61-6	Oxalic acid, 4-chlorophenyl tetradecyl ester*	3.7	0.2
205983-99-9	2-Methoxyethyl 2-ethylhexanoate*	3.7	0.4
535-77-3	Benzene, 1-methyl-3-isopropyl (m-Cymene)	3.7	0.7
536-60-7	Benzenemethanol, 4-(1-methylethyl)*	3.6	0.6
143-15-7	Dodecane, 1-bromo*	3.5	0.3
111-88-6	1-Octanethiol*	3.3	0.6
13429-07-7	2-Propanol, 1-(2-methoxypropoxy)-*	3.3	0.5
4265-25-2	Benzofuran, 2-methyl*	3.2	0.6
95-13-6	Indene*	3.2	0.7
111-70-6	1-Heptanol	3.2	0.7
527-84-4	o-Cymene (2-Isopropyltoluene)	3.1	0.6
1002-69-3	Decane, 1-chloro*	3.0	0.4
107-21-1	1,2-Ethanediol (Ethylene glycol)	2.9	1.2
6712-79-4	Isopinocarveol*	2.9	0.5
7425-14-1	2-Ethylhexyl 2-ethylhexanoate*	2.7	0.3
31081-18-2	Nonane, 3-methyl-5-propyl*	2.7	0.4

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CAS Number	Compound	Concentration	
		µg/m³	ppb
5077-67-8	1-Hydroxy-2-butanone*	2.5	0.7
206-44-0	Fluoranthene*	2.5	0.3
112-15-2	Ethanol, 2-(2-ethoxyethoxy), acetate*	2.4	0.3
123-91-1	1,4-Dioxane	2.4	0.7
626-93-7	2-Hexanol*	2.3	0.5
98-82-8	Benzene, 1-methylethyl (Cumene)	2.1	0.4

UL ID:	SV2TFD
Sample Date:	November 15, 2020
Volume (L):	17.5

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B16_LR_Hall_Post
Total Volatile Organic Compounds	1,230 µg/m³

CAS Number	Compound	Concentration	
		µg/m³	ppb
71-43-2	Benzene	82.6	25.8
94-28-0	Hexanoic acid, 2-ethyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester*	80.7	4.9
100-42-5	Styrene	72.3	17.0
91-20-3	Naphthalene	48.8	9.3
109-67-1	1-Pentene	47.5	16.6
116-09-6	2-Propanone, 1-hydroxy	44.8	14.8
98-01-1	Furfural (2-Furaldehyde)	43.2	11.0
534-22-5	Furan, 2-methyl-*	40.5	12.1
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	37.3	9.1
64-19-7	Acetic acid	33.8	13.8
108-88-3	Toluene (Methylbenzene)	29.8	7.9
108-95-2	Phenol	26.5	6.9
431-03-8	2,3-Butanedione	25.4	7.2
120-92-3	Cyclopentanone	24.2	7.0
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	21.4	7.3
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	21.1	3.8
90-05-1	Phenol, 2-methoxy*	20.1	4.0
7287-82-3	1-(2-Methylphenyl)ethanol*	16.6	3.0
106-44-5	Phenol, 4-methyl (p-Cresol)*	16.0	3.6
100-52-7	Benzaldehyde	15.7	3.6
5077-67-8	1-Hydroxy-2-butanone*	15.3	4.2
66-25-1	Hexanal	15.0	3.7
98-00-0	2-Furanmethanol*	14.7	3.7
1330-20-7	Xylenes (Total)	14.0	3.2
110-86-1	Pyridine	13.1	4.1
271-89-6	Benzofuran*	12.9	2.7
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	12.3	1.4
100-41-4	Benzene, ethyl	12.0	2.8
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	11.7	2.2
68-12-2	Formamide, N,N-dimethyl*	11.3	3.8
91-57-6	Naphthalene, 2-methyl	10.8	1.9
95-48-7	Phenol, 2-methyl*	10.6	2.4
93-51-6	Phenol, 2-methoxy-4-methyl*	10.6	1.9
95-87-4	Phenol, 2,5-dimethyl-*	10.5	2.1

Date Issued: November 23, 2020
Product #: 1001086264-3469419
Report #: 1001086264-3469419

UL ID:	SV2TFD
Sample Date:	November 15, 2020
Volume (L):	17.5

CAS Number	Compound	Concentration	
		µg/m³	ppb
95-13-6	Indene*	10.3	2.2
3126-95-2	Oxirane, (propoxymethyl)-*	9.7	2.0
765-70-8	1,2-Cyclopentanedione, 3-methyl*	9.6	2.1
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	9.4	1.1
10031-87-5	Acetic acid, 2-ethylbutyl ester*	9.4	1.6
25551-13-7	Trimethylbenzene (All Isomers)	9.3	1.9
112-15-2	Ethanol, 2-(2-ethoxyethoxy), acetate*	9.1	1.3
592-20-1	2-Propanone, 1-(acetyloxy)-*	9.1	1.9
102-76-1	1,2,3-Propanetriol, triacetate (Triacetin)*	8.7	1.0
19549-87-2	1-Heptene, 2,4-dimethyl*	8.4	1.6
541-05-9	Cyclotrisiloxane, hexamethyl	8.3	0.9
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-*	8.3	1.6
827-54-3	Naphthalene, 2-vinyl	8.2	1.3
100-47-0	Benzonitrile	7.6	1.8
208-96-8	Acenaphthylene*	7.3	1.2
620-02-0	2-Furancarboxaldehyde, 5-methyl*	7.1	1.6
91-10-1	Phenol, 2,6-dimethoxy*	7.0	1.1
22122-36-7	2(5H)-Furanone, 3-methyl*	6.5	1.6
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	6.1	1.2
541-02-6	Cyclopentasiloxane, decamethyl	6.0	0.4
814-78-8	3-Buten-2-one, 3-methyl*	6.0	1.8
123-91-1	1,4-Dioxane	5.9	1.6
5989-27-5	D-Limonene*	5.9	1.1
1000293-33-2	m-Toluic acid, 2-ethylcyclohexyl ester*	5.8	0.6
96-54-8	1H-Pyrrole, 1-methyl-*	5.5	1.7
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	5.4	1.2
71-41-0	1-Pentanol (N-Pentyl alcohol)	5.4	1.5
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	5.3	1.1
53783-89-4	Hexanenitrile, 3-methyl*	5.2	1.1
40771-26-4	1,5-Dihydroxy-1,2,3,4-tetrahydronaphthalene*	5.1	0.8
2785-89-9	Phenol, 4-ethyl-2-methoxy*	5.1	0.8
4170-30-3	2-Butenal	5.1	1.8
600-22-6	Propanoic acid, 2-oxo-, methyl ester*	5.0	1.2
3008-40-0	1,2-Cyclopentanedione*	5.0	1.2
77515-67-4	4-(2,5-Dihydro-3-methoxyphenyl)butylamine*	4.9	0.7
67-64-1	Acetone	4.8	2.0
7402-29-1	Butanoic acid, 3-phenylpropyl ester*	4.7	0.6
111-76-2	Ethanol, 2-butoxy	4.6	0.9
3809-32-3	2,5-Dimethylcyclohexanol*	4.6	0.9
1000452-88-9	Phenylalanine, DL, .alpha.-methyl-, 2-methylpropyl ester*	4.6	0.5
121-33-5	Vanillin (Benzaldehyde, 4-hydroxy-3-methoxy-)*	4.6	0.7
473-06-3	Bicyclo[3.1.1]hept-2-en-6-one, 2,7,7-trimethyl-*	4.5	0.7
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	4.5	1.1
1000309-61-6	Oxalic acid, 4-chlorophenyl tetradecyl ester*	4.4	0.3
107-21-1	1,2-Ethanediol (Ethylene glycol)	4.3	1.7

UL ID:	SV2TFD
Sample Date:	November 15, 2020
Volume (L):	17.5

CAS Number	Compound	Concentration	
		µg/m³	ppb
53448-07-0	2-Undecenal, E-*	4.2	0.6
127-19-5	Acetamide, N,N-dimethyl-*	4.0	1.1
2416-94-6	Phenol, 2,3,6-trimethyl*	4.0	0.7
---	Unresolved hydrocarbons	3.8	0.4
622-76-4	1-Phenyl-1-butyne	3.8	0.7
7786-61-0	2-Methoxy-4-vinylphenol*	3.7	0.6
36960-22-2	1-Hydroxy-3-methyl-2-butanone*	3.7	0.9
609-27-8	3-Ethyl-2-pentanol*	3.6	0.8
23283-97-8	Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1a, 2a, 5a)]-*	3.3	0.5
135-77-3	1.2.4-Trimethoxybenzene*	3.2	0.5
4265-25-2	Benzofuran, 2-methyl*	3.2	0.6
629-50-5	Tridecane	3.2	0.4
79-41-4	2-Propenoic acid, 2-methyl*	3.0	0.8
110-13-4	2,5-Hexanedione*	2.9	0.6
7473-98-5	2-Hydroxy-iso-butyrophenone*	2.9	0.4
1000282-22-3	Cyclobutanecarboxylic acid, 3-phenylethyl ester*	2.9	0.3
109-08-0	Pyrazine, methyl*	2.9	0.7
57-55-6	1,2-Propanediol (Propylene glycol)	2.8	0.9
769-78-8	Vinyl benzoate*	2.8	0.5
575-41-7	Naphthalene, 1,3-dimethyl-*	2.8	0.4
107-06-2	Ethane, 1,2-dichloro	2.7	0.7
4505-38-8	2-Cyclohexene-1,4-dione*	2.7	0.6
294-62-2	Cyclododecane	2.7	0.4
109-52-4	Pentanoic acid (Valeric acid)	2.7	0.6
123-86-4	Acetate, butyl	2.6	0.6
85-01-8	Phenanthrene*	2.5	0.3
930-27-8	Furan, 3-methyl*	2.5	0.7
98-82-8	Benzene, 1-methylethyl (Cumene)	2.3	0.5
79-20-9	Acetate, methyl (Acetic acid, methyl ester)	2.2	0.7
290-37-9	Pyrazine	2.1	0.7
1193-11-9	1,3-Dioxolane, 2,2,4-trimethyl*	2.0	0.4

UL ID:	SV3TFD
Sample Date:	November 15, 2020
Volume (L):	20.4

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B16_LR_Hall_HZA
Total Volatile Organic Compounds	10,700 µg/m³

CAS Number	Compound	Concentration	
		µg/m³	ppb
71-43-2	Benzene	302	94.5
64-19-7	Acetic acid	231	94.0
259-79-0	Biphenylene*	229	36.8
98-01-1	Furfural (2-Furaldehyde)	225	57.2
102-76-1	1,2,3-Propanetriol, triacetate (Triacetin)*	217	24.3
91-20-3	Naphthalene	213	40.7
93-51-6	Phenol, 2-methoxy-4-methyl*	208	36.7
120-92-3	Cyclopentanone	207	60.3
100-42-5	Styrene	204	48.0
107-06-2	Ethane, 1,2-dichloro	196	48.4
108-95-2	Phenol	191	49.7
92-52-4	1,1'-Biphenyl*	178	28.2
80-71-7	2-Cyclopenten-1-one, 2-hydroxy-3-methyl-*	175	38.1
90-05-1	Phenol, 2-methoxy*	174	34.3
109-99-9	Furan, tetrahydro (THF)	174	59.0
91-57-6	Naphthalene, 2-methyl	173	29.8
106-44-5	Phenol, 4-methyl (p-Cresol)*	172	38.9
2785-89-9	Phenol, 4-ethyl-2-methoxy*	165	26.6
91-10-1	Phenol, 2,6-dimethoxy*	165	26.2
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1-Methylethenyl)benzene)	163	33.7
5451-72-9	Benzoic acid 2-ethoxyethyl ester*	159	41.3
513-49-5	2-Butanamine, (S)-*	156	52.0
5932-68-3	trans-Isoeugenol*	153	22.8
7786-61-0	2-Methoxy-4-vinylphenol*	144	23.4
---	Unresolved hydrocarbons	139	15.0
25551-13-7	Trimethylbenzene (All Isomers)	139	28.2
98-00-0	2-Furanmethanol*	130	32.4
120-80-9	1,2-Benzenediol*	119	26.3
76965-78-1	Cycloheptylamine, N-acetyl-*	118	18.5
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	116	28.4
95-87-4	Phenol, 2,5-dimethyl-*	115	22.9
108-88-3	Toluene (Methylbenzene)	112	29.6
600-22-6	Propanoic acid, 2-oxo-, methyl ester*	107	25.5
1330-20-7	Xylenes (Total)	105	24.1
6627-88-9	Phenol, 2,6-dimethoxy-4-(2-propenyl)-*	100	12.6
105-37-3	Propanoic acid,ethyl ester (Ethyl propionate)	99.9	23.9

Date Issued: November 23, 2020
Product #: 1001086264-3469419
Report #: 1001086264-3469419

UL ID:	SV3TFD
Sample Date:	November 15, 2020
Volume (L):	20.4

CAS Number	Compound	Concentration	
		µg/m³	ppb
95-48-7	Phenol, 2-methyl*	98.2	22.2
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	95.7	10.8
3008-40-0	1,2-Cyclopentanedione*	95.0	23.7
6638-05-7	3,5-Dimethoxy-4-hydroxytoluene*	94.3	13.7
95-13-6	Indene*	92.6	19.5
7473-98-5	2-Hydroxy-iso-butyrophenone*	91.3	13.6
68-12-2	Formamide, N,N-dimethyl*	90.6	30.3
100-52-7	Benzaldehyde	90.1	20.8
934-00-9	1,2-Benzenediol, 3-methoxy-*	88.0	15.4
5077-67-8	1-Hydroxy-2-butanone*	86.8	24.1
21835-01-8	2-Cyclopenten-1-one, 3-ethyl-2-hydroxy-*	86.5	16.8
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	82.7	15.8
4265-25-2	Benzofuran, 2-methyl*	82.6	15.3
40771-26-4	1,5-Dihydroxy-1,2,3,4-tetrahydronaphthalene*	82.6	12.3
923-28-4	3-Octanone, 2-methyl*	82.0	14.1
98-86-2	Acetophenone (Ethanone, 1-phenyl)*	81.4	16.6
556-67-2	Cyclotetrasiloxane, octamethyl	79.6	6.6
123-92-2	1-Butanol, 3-methyl-, acetate*	79.0	14.8
40933-45-7	2,4-Dimethylhexanedioic acid*	77.9	10.9
592-20-1	2-Propanone, 1-(acetyloxy)-*	75.6	15.9
100-47-0	Benzonitrile	73.7	17.5
66-25-1	Hexanal	73.0	17.8
115-18-4	3-Buten-2-ol, 2-methyl*	72.7	20.6
1000458-50-4	3,4-dimethylfuran*	72.0	18.3
149-57-5	Hexanoic acid, 2-ethyl	68.2	11.6
110-86-1	Pyridine	67.9	21.0
488-17-5	1,2-Benzenediol, 3-methyl-*	67.7	13.3
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	66.8	7.5
1121-05-7	2-Cyclopenten-1-one, 2,3-dimethyl-*	66.7	14.8
1000156-78-3	Bicyclo[3.2.0]heptan-2-one, 5-formylmethyl-6-hydroxy-3,3-dimethyl-6-vinyl-*	66.0	7.3
873-49-4	Cyclopropylbenzene	64.7	13.4
1000098-14-8	1,4:3,6-Dianhydro-.alpha.-d-glucopyranose*	62.3	10.6
100-41-4	Benzene, ethyl	61.9	14.3
467-60-7	Pipradrol*	60.4	5.5
86-73-7	2,2-Metaylenebiphenyl (Fluorene)*	60.3	8.9
15795-39-8	1H-1,2,4-Triazol-5-amine, 1-methyl-*	57.8	175
827-54-3	Naphthalene, 2-vinyl	57.7	9.1
3126-95-2	Oxirane, (propoxymethyl)-*	56.8	12.0
7226-23-5	1,3-Dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone*	56.4	10.8
541-05-9	Cyclotrisiloxane, hexamethyl	56.1	6.2
767-59-9	1H-Indene, 1-methyl	55.9	10.5
132-64-9	Dibenzofuran*	55.8	8.1
107-87-9	2-Pentanone*	55.0	15.6

UL ID:	SV3TFD
Sample Date:	November 15, 2020
Volume (L):	20.4

CAS Number	Compound	Concentration	
		µg/m³	ppb
159087-74-8	1,4-Dihydrothujopsene-(I1)*	54.2	6.4
827-16-7	1.3.5-Triazine-2.4.6(1H.3H.5H)-trione. 1.3.5-trimethyl-*	51.3	7.3
2416-94-6	Phenol, 2,3,6-trimethyl*	50.9	9.1
1142-85-4	Alpha-terpinyl isovalerate*	49.4	5.1
1120-73-6	2-Cyclopenten-1-one, 2-methyl*	47.9	12.2
84944-44-5	3,4-2H-Isocoumarin-3-one, 5,8-dimethyl-*	47.4	6.1
59832-96-1	Guaiacol, 4-butyl-*	47.2	6.4
96-54-8	1H-Pyrrole, 1-methyl-*	46.1	13.9
3710-43-8	2,4-Dimethylfuran*	45.7	11.6
85-01-8	Phenanthrene*	43.1	5.9
5989-27-5	D-Limonene*	42.0	7.5
52023-17-3	1-Silacyclo-2,4-hexadiene*	40.3	10.3
6589-48-6	2-Cyclohexylamino-1-phenylethanol*	39.0	4.4
39151-19-4	3',5'-Dimethoxyacetophenone*	37.5	5.1
87345-52-6	Homosyringaldehyde*	37.5	4.7
105-67-9	Phenol, 2,4-dimethyl	37.2	7.4
79-09-4	Propanoic acid	35.3	11.7
127-19-5	Acetamide, N,N-dimethyl-*	35.3	9.9
612-17-9	1,4-Dihydronaphthalene*	35.0	6.6
814-78-8	3-Buten-2-one, 3-methyl*	35.0	10.2
29422-13-7	Naphthalene, 1,2,3,4-tetrahydro-2-phenyl-*	34.1	4.0
59073-99-3	Borane, methyldiphenyl-*	33.6	4.6
109-08-0	Pyrazine, methyl*	31.8	8.3
1575-57-1	2-Butanone, 1-(acetyloxy)-*	30.9	5.8
79-16-3	Acetamide, N-methyl*	30.3	10.1
431-03-8	2,3-Butanedione	29.7	8.4
290-37-9	Pyrazine	29.4	9.0
36960-22-2	1-Hydroxy-3-methyl-2-butanone*	28.9	6.9
20407-84-5	2-Dodecenal, (E)-*	28.8	3.9
2785-87-7	Phenol, 2-methoxy-4-propyl-*	28.5	4.2
591-11-7	2(5H)-Furanone, 5-methyl-*	27.5	6.9
534-22-5	Furan, 2-methyl-*	27.4	8.2
4170-30-3	2-Butenal	27.2	9.5
1081-75-0	Benzene, 1,1'-(1,3-propanediyl)bis*	24.9	3.1
6846-50-0	TXIB (2,2,4-Trimethyl-1,3-pentanediol diisobutyrate)	24.4	2.1
203-80-5	1H-Phenalene*	24.3	3.6
108-65-6	1-Methoxy-2-propyl acetate*	22.8	4.2
42781-12-4	2-Propanone, 1-(1-methylethoxy)-*	22.5	4.7
119-61-9	Benzophenone (Diphenyl methanone)	22.2	3.0
112-53-8	1-Dodecanol*	21.9	2.9
7145-20-2	2-Hexene, 2,3-dimethyl-*	21.6	4.7
39549-22-9	Benzeneacetic acid, 3-ethoxy-.beta.,4-dihydroxy-*	21.6	2.5
6137-06-0	2-Heptanone, 4-methyl*	21.3	4.1

UL ID:	SV3TFD
Sample Date:	November 15, 2020
Volume (L):	20.4

CAS Number	Compound	Concentration	
		µg/m³	ppb
79-10-7	2-Propenoic acid (Acrylic acid)	21.2	7.2
105-46-4	Acetic acid, 1-methylpropyl ester*	20.9	4.4
926-64-7	Acetonitrile, (dimethylamino)*	20.6	6.0
78-93-3	2-Butanone (Methyl ethyl ketone, MEK)	20.4	6.9
20481-17-8	5-tert-Butylpyrogallol*	20.3	2.7
37524-18-8	2-Propenal, 2-methyl-3-(4-nitrophenyl)-*	20.0	2.6
109-67-1	1-Pentene	19.3	6.7
109-06-8	Pyridine,2-methyl (2-Picoline)*	19.3	5.1
3416-57-7	Phthalimide, n-acetonyl-*	16.9	2.0
3208-16-0	Furan, 2-ethyl	16.9	4.3
14035-34-8	2,6-Bis(1,1-dimethylethyl)-4-(1-oxopropyl)phenol*	16.0	1.5
71-41-0	1-Pentanol (N-Pentyl alcohol)	15.8	4.4
1000371-30-6	Glutaric acid, butyl 2-methyl-3-nitrobenzyl ester*	15.7	1.1
61142-37-8	Cyclohexane, (1,2-dimethylbutyl)*	15.3	2.2
98-82-8	Benzene, 1-methylethyl (Cumene)	15.3	3.1
495-74-9	2,4-Hexadiyn-1-one, 1-phenyl-*	14.8	2.1
67-64-1	Acetone	14.5	6.1
5444-75-7	Benzoic acid, 2-ethylhexyl ester*	13.8	1.4
59247-36-8	Fluorene, 2,4a-dihydro-*	12.7	4.6
463-82-1	Neopentane*	12.4	4.2
7208-05-1	Oxazole, 2,4-dimethyl-*	12.2	3.1
813-67-2	Butanoic acid, 2,2-dimethyl-, methyl ester*	11.9	9.7
149003-36-1	Cyclooctane, tetradecyl-*	11.9	0.9
84-11-7	9,10-Phenanthrenedione*	11.3	1.3
29881-14-9	1,2-Diphenylcyclopropane*	11.2	1.4
54934-95-1	Cyclohexane, 1-(cyclohexylmethyl)-4-ethyl-, cis-*	10.3	1.2
87345-53-7	3,5-Dimethoxy-4-hydroxycinnamaldehyde*	9.6	1.1
57-10-3	Hexadecanoic acid*	8.7	0.8
1561-06-4	1,2-Propanediol, 3-(tetradecyloxy)-*	8.5	0.7
1000340-22-6	Benzoic acid, tridecyl ester*	8.3	0.7
5650-43-1	1-Propanone, 1-(4-hydroxy-3,5-dimethoxyphenyl)-*	7.4	0.9
112-39-0	Hexadecanoic acid, methyl ester*	7.2	0.6
538-39-6	Benzene, 1,1'-(1,2-ethanediyl)bis[4-methyl-*	6.8	0.8
25044-01-3	1-Penten-3-one, 2-methyl-*	6.3	1.6
928-55-2	Ethyl-1-propenyl ether*	5.9	1.7
7446-09-5	Sulfur dioxide	5.6	2.1
1487-18-9	Vinylfuran*	5.6	1.4
629-78-7	Heptadecane	5.3	0.5
7225-68-5	Dodecane, 1-cyclopentyl-4-(3-cyclopentylpropyl)-*	5.3	0.4
516-05-2	Methylmalonic acid*	4.2	0.9
1000221-38-6	Bicyclo[4.2.0]octa-1,4-diene, 7-methyl-7-phenyl-, (6.alpha.,7.alpha.)-*	3.9	0.5
1120-64-5	Oxazole, 4,5-dihydro-2-methyl-*	3.6	1.0
107-89-1	Butanal, 3-hydroxy*	2.5	0.7

Date Issued: November 23, 2020
Product #: 1001086264-3469419
Report #: 1001086264-3469419

UL ID:	SV3TFD
Sample Date:	November 15, 2020
Volume (L):	20.4

CAS Number	Compound	Concentration	
		µg/m³	ppb
1000314-84-7	Phthalic acid, isobutyl 4-octyl ester*	2.5	0.2
53723-18-5	5-Octyn-3-ol*	2.3	0.5
79-20-9	Acetate, methyl (Acetic acid, methyl ester)	2.0	0.7

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.

†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 individual VOCs.

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Project # 2011006NY_B16

1001086264 - 3469419

ACTIVE CHEMICAL SAMPLING CHAIN OF CUSTODY

Company: ULVS (Healthy Buildings)	Contact: CARESULTS@UL.COM	Project/P.O./Job Number: 2011006NY_B16
Address: 3251 Old Lee Highway #100 Fairfax, VA 22030	Phone: 571.655.7919 Fax: 703.323.4440	Sample Date: 16 Nov 2020 Investigator: Nelson Camacho Tirado

Please check the appropriate fields; Use separate COC for each sample method.

VOLATILE ORGANICS: IVOC SCAN: __x__ TOP 20 IVOC _____ TVOC ONLY _____ OTHER ___B.T.E.X.

ALDEHYDE SCAN: _____ FORMALDEHYDE ONLY _____ | **ANALYSIS: LEED V4 ___ LEED V4.1 ___ OTHER _B.T.E.X.**

TAT: Standard __X__ Next Day Rush*_____ * Rush charges apply; please call in advance to confirm availability

Comments: One (1) Week TAT Please – Looking for results by COB ~~Friday November 13th.~~ December 15th. Thank you

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	2011006NY-16A/ s/n B26102	B16_LR_Hall_Pre	15 Nov 09:41	15 Nov 10:41	60	4257	0.3001	18.0072
V02	2011006NY-16B/ s/n B26978	B16_LR_Hall_Post	16 Nov 12:22	16 Nov 13:22	60	4257	0.2910	17.4597
V03	2011006NY-16C/ s/n B26962	B16_LR_Hall_HZA	16 Nov 11:47	16 Nov 12:20	33	5116	0.6189	20.4221
V04	2011006NY-16D/ s/n B26969	B16_LR_Hall_ Field Blank						n/a

Released By: Nelson Camacho Tirado (Print/Sign) Nelson Camacho Tirado	Date/Time: 16 Nov 2020	Method of Shipment: UPS Next
Received By:	Date/Time: 11/17/20 11:00 AM	Sample Condition: Acceptable

3469419

3469419

Description 2011006NY_B16

Customer: UL Verification Services, Inc.

Received Date: 2020-NOV-17 03:28:34 PM

Aurora Project No.: 1001086264
Order No.:
Oracle Project No.:

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Date Issued: November 23, 2020
Product #: 1001086264-3469419
Report #: 1001086264-3469419