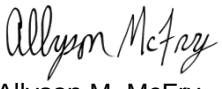
FIELD SAMPLING TEST REPORT	
Customer Information	LST.FAI.HBDCResults@ul.com UL Verification Services, Inc. 3251 Old Lee Highway, Suite 100 Fairfax, VA 22030
HB Project Number	2010030NY
Date Received	October 21, 2020
Testing Laboratory Location	UL Environment - Marietta, 2211 Newmarket Parkway, Marietta, 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 11, 2020
Product #: 1001053392-3405494
Report #: 1001053392-3405494

UL ID:	SV1TFD
Sample Date:	October 20, 2020
Volume (L):	18.5

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B07_BR_04_Pre
Total Volatile Organic Compounds	222 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
541-02-6	Cyclopentasiloxane, decamethyl	80.1	5.3
77-68-9	Propanoic acid, 2-methyl-, 3-hydroxy-2,2,4-trimethylpentyl ester (component of Texanol)	43.7	4.9
25265-77-4	2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	25.3	2.9
64-19-7	Acetic acid	18.9	7.7
66-25-1	Hexanal	14.1	3.4
98-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-*	11.2	1.5
108-88-3	Toluene (Methylbenzene)	5.4	1.4
110-62-3	Pentanal	4.8	1.4
71-41-0	1-Pentanol (N-Pentyl alcohol)	4.2	1.2
124-19-6	Nonyl aldehyde (Nonanal) †	3.8	0.7
25265-71-8	Dipropylene Glycol	3.7	0.7
275-51-4	Azulene*	3.6	0.7
124-13-0	Octanal†	3.5	0.7
624-54-4	Propanoic acid, pentyl ester*	3.4	0.6
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	3.3	0.6
142-96-1	n-Butyl ether	3.0	0.6
127-91-3	Pinene, beta (6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane)	2.7	0.5
98-01-1	Furfural (2-Furaldehyde)	2.3	0.6
57-55-6	1,2-Propanediol (Propylene glycol)	2.2	0.7
104-76-7	1-Hexanol, 2-ethyl	2.2	0.4
29621-55-4	1-Cyclohexene-1-methanol, 4-(1-methylethenyl)-, formate*	2.0	0.3

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

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B07_BR_04Field Blank
Total Volatile Organic Compounds	BQL

CAS Number	Compound	Concentration	
		µg/m³	ppb
---	none	---	---

Date Issued: November 11, 2020
Product #: 1001053392-3405494
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UL ID:	SV2TFD
Sample Date:	October 20, 2020
Volume (L):	18.6

CONCENTRATIONS OF TOTAL AND INDIVIDUAL VOLATILE ORGANIC COMPOUNDS

Sample Location/Description	B07_BR_04_Post
Total Volatile Organic Compounds	141 µg/m³

CAS Number	**Compound**	**Concentration**	
		µg/m³	**ppb**
100-42-5	Styrene†	40.4	9.5
71-43-2	Benzene†	25.8	8.1
64-19-7	Acetic acid	11.7	4.8
80-62-6	Methyl methacrylate (2-Propenoic acid, 2-methyl-, methyl ester)	10.8	2.6
91-20-3	Naphthalene†	9.6	1.8
98-01-1	Furfural (2-Furaldehyde)	9.4	2.4
108-88-3	Toluene (Methylbenzene)	7.4	2.0
108-95-2	Phenol†	6.8	1.8
66-25-1	Hexanal	4.4	1.1
116-09-6	2-Propanone, 1-hydroxy	3.6	1.2
120-92-3	Cyclopentanone	3.6	1.0
98-83-9	a-Methylstyrene (iso-Propenylbenzene; (1-Methylethenyl)benzene)	3.5	0.7
100-41-4	Benzene, ethyl†	2.9	0.7
141-32-2	Butyl acrylate (2-Propenoic Acid, butyl ester)	2.9	0.5
90-05-1	Phenol, 2-methoxy*	2.4	0.5
100-52-7	Benzaldehyde	2.4	0.5
106-44-5	Phenol, 4-methyl (p-Cresol)*	2.3	0.5
95-13-6	Indene*	2.2	0.5
1330-20-7	Xylenes (Total) †	2.1	0.5
110-86-1	Pyridine	2.1	0.6
565-69-5	3-Pentanone, 2-methyl*	2.0	0.5
80-56-8	Pinene, alpha (2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene)	2.0	0.4
71-36-3	1-Butanol (N-Butyl alcohol)	2.0	0.6

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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Project # 2010030NY_B07

1001053392-3405494

ACTIVE CHEMICAL SAMPLING CHAIN OF CUSTODY

Company: ULVS (Healthy Buildings)	Contact: CARESULTS@UL.COM	Project/P.O./Job Number: 2010030NY_B07
Address: 3251 Old Lee Highway #100 Fairfax, VA 22030	Phone: 571.655.7919 Fax: 703.323.4440	Sample Date: 20OCT2020 Investigator: SAM.HORNER

Please check the appropriate fields; Use separate COC for each sample method.	VOLATILE ORGANICS: IVOC SCAN: _____ 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:

UL ID	SAMPLE ID/ TUBE ID	SAMPLE LOCATION/ DESCRIPTION	START TIME	STOP TIME	TIME SAMPLED (MIN)	PUMP ID #	FLOW RATE (L/MIN)	VOLUME (L)
Vol	2010030NY-07A/ s/n B26483	B07_BR_04_Pre	08:22	09:22	60	4257	0.309	18.51L
Vo2	2010030NY-07B/ s/n B27025	B07_BR_04_Post	11:20	12:20	60	4257	0.31	18.59L
VolF	2010030NY-07C/ s/n B26484	B07_BR_04Field Blank						n/a

Released By: SAM.HORNER (Print/Sign)	Date/Time: 20OCT2020	Method of Shipment: UPS Next Da
Received By:	Date/Time: 10/21/20 10.32AM	Sample Condition: Acceptable

3405494

Description 2010030NY_B07

3405494

Customer: UL Environment Inc.

Received Date: 2020-OCT-21 11:36:22 AM

Aurora Project No.: 1001053392
Order No.:
Oracle Project No.:

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Date Issued: November 11, 2020
Product #: 1001053392-3405494
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