

**EMSL Analytical**

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 Phone/Fax: (856)858-4800 / (856)858-4571  
<http://www.EMSL.com> [to15lab@EMSL.com](mailto:to15lab@EMSL.com)

EMSL Order #: **491800000**  
 EMSL Sample #: **491800000-1**  
 Customer ID: **EMSL50**  
 Customer PO: **NA**

Attn: **Lance Romance**  
**EMSL Analytical-Air Toxics Lab**  
**200 US Route 130 N**  
**Cinnaminson, NJ 08077**

Phone: **800-220-3675**  
 Fax: **856-786-0327**  
 Date Collected: **2/6/2018**  
 Date Received: **2/7/2018**

Project: **Example format for clients**

Sample ID: **Barb's Bird Room**

<u>Analysis</u>	<u>Analysis Date</u>	<u>Analyst Init.</u>	<u>Lab File ID</u>	<u>Canister ID</u>	<u>Sample Vol.</u>	<u>Dil. Factor</u>
Initial	02/13/2018	KW	K14736.D	HD4365	250 cc	1
Dilution1	02/14/2018	KW	K14753.D	HD4365	50 cc	5

**Total Volatile Organic Compounds (TVOC) Summary**

Target Compounds	CAS#	MW	Result ppbv	RL ppbv	Q	Result ug/m3	RL ug/m3	Comments
Chloromethane	74-87-3	50.49	0.78	0.50		1.6	1.0	
n-Butane	106-97-8	58.12	65	2.5	D	160	5.9	Reported Dilution #1
Ethanol	64-17-5	46.07	450	2.5	DE	850	4.7	Reported Dilution #1
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	17	0.50		41	1.2	
Acetone	67-64-1	58.08	48	2.5	D	120	5.9	Reported Dilution #1
n-Hexane	110-54-3	86.17	0.80	0.50		2.8	1.8	
2-Butanone(MEK)	78-93-3	72.10	1.5	0.50		4.4	1.5	
Ethyl acetate	141-78-6	88.10	4.4	0.50		16	1.8	
Chloroform	67-66-3	119.40	1.0	0.50		5.1	2.4	
2,2,4-Trimethylpentane(Isooctane)	540-84-1	114.20	0.85	0.50		4.0	2.3	
Benzene	71-43-2	78.11	1.7	0.50		5.4	1.6	
Toluene	108-88-3	92.14	3.7	0.50		14	1.9	
Tetrachloroethene	127-18-4	165.80	3.0	0.50		20	3.4	
Ethylbenzene	100-41-4	106.20	0.63	0.50		2.7	2.2	
Xylene (p,m)	1330-20-7	106.20	1.9	1.0		8.3	4.3	
Xylene (Ortho)	95-47-6	106.20	0.74	0.50		3.2	2.2	
4-Ethyltoluene	622-96-8	120.2	1.3	0.50		6.4	2.5	
1,2,4-Trimethylbenzene	95-63-6	120.20	1.7	0.50		8.2	2.5	
<b>Total Target Compound Concentrations:</b>			<b>600</b>	<b>ppbv</b>		<b>1300</b>	<b>ug/m3</b>	

**Qualifier Definitions**

B = Compound also found in method blank.

E = Estimated concentration exceeding upper calibration range.

D = Result reported from diluted analysis.

Tentatively Identified Compounds	CAS#	MW(1)	Result ppbv	Q	Result ug/m3	Retention Time	Comments
Ethane, 1,1-difluoro-	000075-37-6	66	36	JN	97	5.51	
Isobutane	000075-28-5	58	17	JN	41	6.02	
Acetaldehyde	000075-07-0	44	2.3	JN	4.1	6.94	
Carbonyl sulfide	000463-58-1	60	8.0	JN	20	7.56	
Butane, 2-methyl-	000078-78-4	72	6.6	JN	19	8.09	
Pentane	000109-66-0	72	3.2	JN	9.4	9.04	
Cyclopentane	000287-92-3	70	2.2	JN	6.3	13.45	
Unknown		92	1.9	JN	7.2	15.68	
Nonane	000111-84-2	128	2.1	JN	11	25.1	
Unknown		92	2.1	JN	7.8	27.2	
Decane	000124-18-5	142	9.0	JN	52	27.41	
Unknown		92	2.2	JN	8.2	27.66	
Unknown		92	2.7	JN	10	27.84	
Cyclohexane, butyl-	001678-93-9	140	2.4	JN	14	28.87	
D-Limonene	005989-27-5	136	6.0	JN	33	29.11	
Undecane	001120-21-4	156	3.3	JN	21	29.46	
<b>Total TIC Concentrations:</b>			<b>110</b>	<b>ppbv</b>	<b>360</b>	<b>ug/m3</b>	

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### Total Volatile Organic Compounds (TVOC) Summary

**Qualifier Definitions**

- (1) = If unknown, MW is assigned as equivalent Toluene (92) for ug/m3 conversion purposes.
- B = Compound also found in method blank.
- J= Estimated value based on a 1:1 response to internal standard.
- N= Presumptive evidence of compound based on library match.

Total Volatile Organic Compounds (TVOCs): 710 ppbv 1700 ug/m3