

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 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: **Not Available**

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

Phone: **800-220-3675**  
 Fax: **856-786-0327**  
 Date Collected: **Not Provided**  
 Date Received: **Not Provided**

Project: **Example Report for Clients**

Sample ID: **Barbs' Bird Room**

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

**Target Compound Results Summary -PPMV**

Target Compounds	CAS#	MW	Result ppmv	RL ppmv	Q	Result mg/m3	RL mg/m3	Comments
Propylene	115-07-1	42.08	ND	0.0010		ND	0.0017	
Freon 12(Dichlorodifluoromethane)	75-71-8	120.9	ND	0.00050		ND	0.0025	
Freon 114(1,2-Dichlorotetrafluoroethan	76-14-2	170.9	ND	0.00050		ND	0.0035	
Chloromethane	74-87-3	50.49	<b>0.00078</b>	0.00050		<b>0.0016</b>	0.0010	
n-Butane	106-97-8	58.12	<b>0.065</b>	0.0025	D	<b>0.16</b>	0.0059	Reported Dilution #1
Vinyl chloride	75-01-4	62.50	ND	0.00050		ND	0.0013	
1,3-Butadiene	106-99-0	54.09	ND	0.00050		ND	0.0011	
Bromomethane	74-83-9	94.94	ND	0.00050		ND	0.0019	
Chloroethane	75-00-3	64.52	ND	0.00050		ND	0.0013	
Ethanol	64-17-5	46.07	<b>0.45</b>	0.0025	DE	<b>0.85</b>	0.0047	Reported Dilution #1
Bromoethene(Vinyl bromide)	593-60-2	106.9	ND	0.00050		ND	0.0022	
Freon 11(Trichlorofluoromethane)	75-69-4	137.4	ND	0.00050		ND	0.0028	
Isopropyl alcohol(2-Propanol)	67-63-0	60.10	<b>0.017</b>	0.00050		<b>0.041</b>	0.0012	
Freon 113(1,1,2-Trichlorotrifluoroethan	76-13-1	187.4	ND	0.00050		ND	0.0038	
Acetone	67-64-1	58.08	<b>0.048</b>	0.0025	D	<b>0.12</b>	0.0059	Reported Dilution #1
1,1-Dichloroethene	75-35-4	96.94	ND	0.00050		ND	0.0020	
Acetonitrile	75-05-8	41.00	ND	0.00050		ND	0.00084	
Tertiary butyl alcohol(TBA)	75-65-0	74.12	ND	0.00050		ND	0.0015	
Bromoethane(Ethyl bromide)	74-96-4	108.0	ND	0.00050		ND	0.0022	
3-Chloropropene(Allyl chloride)	107-05-1	76.53	ND	0.00050		ND	0.0016	
Carbon disulfide	75-15-0	76.14	ND	0.00050		ND	0.0016	
Methylene chloride	75-09-2	84.94	ND	0.00050		ND	0.0017	
Acrylonitrile	107-13-1	53.00	ND	0.00050		ND	0.0011	
Methyl-tert-butyl ether(MTBE)	1634-04-4	88.15	ND	0.00050		ND	0.0018	
trans-1,2-Dichloroethene	156-60-5	96.94	ND	0.00050		ND	0.0020	
n-Hexane	110-54-3	86.17	<b>0.00080</b>	0.00050		<b>0.0028</b>	0.0018	
1,1-Dichloroethane	75-34-3	98.96	ND	0.00050		ND	0.0020	
Vinyl acetate	108-05-4	86.00	ND	0.00050		ND	0.0018	
2-Butanone(MEK)	78-93-3	72.10	<b>0.0015</b>	0.00050		<b>0.0044</b>	0.0015	
cis-1,2-Dichloroethene	156-59-2	96.94	ND	0.00050		ND	0.0020	
Ethyl acetate	141-78-6	88.10	<b>0.0044</b>	0.00050		<b>0.016</b>	0.0018	
Chloroform	67-66-3	119.4	<b>0.0010</b>	0.00050		<b>0.0051</b>	0.0024	
Tetrahydrofuran	109-99-9	72.11	ND	0.00050		ND	0.0015	
1,1,1-Trichloroethane	71-55-6	133.4	ND	0.00050		ND	0.0027	
Cyclohexane	110-82-7	84.16	ND	0.00050		ND	0.0017	
2,2,4-Trimethylpentane(Isooctane)	540-84-1	114.2	<b>0.00085</b>	0.00050		<b>0.0040</b>	0.0023	
Carbon tetrachloride	56-23-5	153.8	ND	0.00050		ND	0.0031	
n-Heptane	142-82-5	100.2	ND	0.00050		ND	0.0020	
1,2-Dichloroethane	107-06-2	98.96	ND	0.00050		ND	0.0020	
Benzene	71-43-2	78.11	<b>0.0017</b>	0.00050		<b>0.0054</b>	0.0016	
Trichloroethene	79-01-6	131.4	ND	0.00050		ND	0.0027	
1,2-Dichloropropane	78-87-5	113.0	ND	0.00050		ND	0.0023	
Methyl Methacrylate	80-62-6	100.12	ND	0.00050		ND	0.0020	
Bromodichloromethane	75-27-4	163.8	ND	0.00050		ND	0.0033	
1,4-Dioxane	123-91-1	88.12	ND	0.00050		ND	0.0018	
4-Methyl-2-pentanone(MIBK)	108-10-1	100.2	ND	0.00050		ND	0.0020	

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Dilution1	02/14/2018	KW	K14753.D	HD4365	50 cc	5

**Target Compound Results Summary -PPMV**

Target Compounds	CAS#	MW	Result ppmv	RL ppmv	Q	Result mg/m3	RL mg/m3	Comments
cis-1,3-Dichloropropene	10061-01-5	111.0	ND	0.00050		ND	0.0023	
Toluene	108-88-3	92.14	0.0037	0.00050		0.014	0.0019	
trans-1,3-Dichloropropene	10061-02-6	111.0	ND	0.00050		ND	0.0023	
1,1,2-Trichloroethane	79-00-5	133.4	ND	0.00050		ND	0.0027	
2-Hexanone(MBK)	591-78-6	100.1	ND	0.00050		ND	0.0020	
Tetrachloroethene	127-18-4	165.8	0.0030	0.00050		0.020	0.0034	
Dibromochloromethane	124-48-1	208.3	ND	0.00050		ND	0.0043	
1,2-Dibromoethane	106-93-4	187.8	ND	0.00050		ND	0.0038	
Chlorobenzene	108-90-7	112.6	ND	0.00050		ND	0.0023	
Ethylbenzene	100-41-4	106.2	0.00063	0.00050		0.0027	0.0022	
Xylene (p,m)	1330-20-7	106.2	0.0019	0.0010		0.0083	0.0043	
Xylene (Ortho)	95-47-6	106.2	0.00074	0.00050		0.0032	0.0022	
Styrene	100-42-5	104.1	ND	0.00050		ND	0.0021	
Isopropylbenzene (cumene)	98-82-8	120.19	ND	0.00050		ND	0.0025	
Bromoform	75-25-2	252.8	ND	0.00050		ND	0.0052	
1,1,2,2-Tetrachloroethane	79-34-5	167.9	ND	0.00050		ND	0.0034	
4-Ethyltoluene	622-96-8	120.2	0.0013	0.00050		0.0064	0.0025	
1,3,5-Trimethylbenzene	108-67-8	120.2	ND	0.00050		ND	0.0025	
2-Chlorotoluene	95-49-8	126.6	ND	0.00050		ND	0.0026	
1,2,4-Trimethylbenzene	95-63-6	120.2	0.0017	0.00050		0.0082	0.0025	
1,3-Dichlorobenzene	541-73-1	147.0	ND	0.00050		ND	0.0030	
1,4-Dichlorobenzene	106-46-7	147.0	ND	0.00050		ND	0.0030	
Benzyl chloride	100-44-7	126.0	ND	0.00050		ND	0.0026	
1,2-Dichlorobenzene	95-50-1	147.0	ND	0.00050		ND	0.0030	
1,2,4-Trichlorobenzene	120-82-1	181.5	ND	0.00050		ND	0.0037	
Hexachloro-1,3-butadiene	87-68-3	260.8	ND	0.00050		ND	0.0053	
Naphthalene	91-20-3	128.17	ND	0.00050		ND	0.0026	
<b>Total Target Compound Concentrations:</b>			<b>0.60</b>	<b>ppmv</b>		<b>1.3</b>	<b>mg/m3</b>	

**Surrogate**

4-Bromofluorobenzene

Result

11

Spike

10

Recovery

110%

**Qualifier Definitions**

**ND = Non Detect**

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

USEPA: Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air..." Collected in Specially-Prepared Canisters and Analyzed by Gas

**Method Reference**