

**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

EMSL Order #: **491900000**
 EMSL Sample #: **491900000-1**
 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: **Barb's Bird Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	04/24/2018	KW	L1792.D	HD2761	250 cc	1
Dilution1	04/20/2018	KW	L1773.D	HD2761	25 cc	10
Dilution2	04/24/2018	TP	L1798.D	HD2761	25 cc	30

NIOSH and OSHA Exposure Limit Comparisons

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	NIOSH REL ug/m3	OSHA PEL ug/m3
Propylene	NC	115-07-1	42.08	ND		ND	N.E.	N.E.
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	4900000	4900000
Freon 114(1,2-Dichlorotetrafluoroethan	--	76-14-2	170.90	ND		ND	7000000	7000000
Chloromethane	NC	74-87-3	50.49	0.67		1.4	LFC	210000
n-Butane	--	106-97-8	58.12	630	D	1500	1900000	1900000
Vinyl chloride	C	75-01-4	62.50	ND		ND	LFC	2600
1,3-Butadiene	C	106-99-0	54.09	ND		ND	LFC	2200
Bromomethane	NC	74-83-9	94.94	ND		ND	LFC	78000
Chloroethane	NC	75-00-3	64.52	ND		ND	LFC	2600000
Ethanol	--	64-17-5	46.07	2.6		4.9	1900000	1900000
Bromoethene(Vinyl bromide)	C	593-60-2	106.90	ND		ND	LFC	N.E.
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	5600000	5600000
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	ND		ND	980000	980000
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	7700000	7700000
Acetone	NC	67-64-1	58.08	4.6		11	590000	2400000
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	790000	790000
Acetonitrile	NC	75-05-8	41.00	ND		ND	34000	67000
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	300000	300000
Bromoethane(Ethyl bromide)	--	74-96-4	108.00	ND		ND	880000	880000
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	3100	3100
Carbon disulfide	NC	75-15-0	76.14	ND		ND	3100	62000
Methylene chloride	C	75-09-2	84.94	ND		ND	LFC	87000
Acrylonitrile	C	107-13-1	53.00	ND		ND	2200	4300
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	N.E.	N.E.
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	790000	790000
n-Hexane	NC	110-54-3	86.17	220	D	770	180000	1800000
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	400000	400000
Vinyl acetate	NC	108-05-4	86.00	1.2		4.3	14000	N.E.
2-Butanone(MEK)	NC	78-93-3	72.10	ND		ND	590000	590000
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	790000	790000
Ethyl acetate	NC	141-78-6	88.10	ND		ND	1400000	1400000
Chloroform	C	67-66-3	119.40	ND		ND	9800	240000
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	590000	590000
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	1900000	1900000
Cyclohexane	NC	110-82-7	84.16	34		120	1000000	1000000
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	100	D	480	N.E.	N.E.
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	13000	63000
n-Heptane	NC	142-82-5	100.20	15		63	350000	2000000
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	4000	200000
Benzene	C	71-43-2	78.11	13		42	320	3200
Trichloroethene	C	79-01-6	131.40	ND		ND	130000	540000
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	LFC	350000
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	410000	410000
Bromodichloromethane	C	75-27-4	163.80	ND		ND	N.E.	N.E.

**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

EMSL Order #: **491900000**
 EMSL Sample #: **491900000-1**
 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: **Barb's Bird Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	04/24/2018	KW	L1792.D	HD2761	250 cc	1
Dilution1	04/20/2018	KW	L1773.D	HD2761	25 cc	10
Dilution2	04/24/2018	TP	L1798.D	HD2761	25 cc	30

NIOSH and OSHA Exposure Limit Comparisons

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	NIOSH REL ug/m3	>	OSHA PEL ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	3600		360000	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	200000		410000	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	4500		N.E.	
Toluene	NC	108-88-3	92.14	7.7		29	380000		750000	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	4500		N.E.	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	55000		55000	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	4100		410000	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	LFC		680000	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	350		150000	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	N.E.		350000	
Ethylbenzene	C	100-41-4	106.20	1.0		4.5	430000		430000	
Xylene (p,m)	NC	1330-20-7	106.20	3.3		14	430000		430000	
Xylene (Ortho)	NC	95-47-6	106.20	1.9		8.4	430000		430000	
Styrene	NC	100-42-5	104.10	ND		ND	210000		430000	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	250000		250000	
Bromoform	C	75-25-2	252.80	ND		ND	5200		5200	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	6900		34000	
4-Ethyltoluene	--	622-96-8	120.20	ND		ND	N.E.		N.E.	
1,3,5-Trimethylbenzene	NC	108-67-8	120.20	ND		ND	120000		120000	
2-Chlorotoluene	--	95-49-8	126.60	ND		ND	260000		N.E.	
1,2,4-Trimethylbenzene	NC	95-63-6	120.20	ND		ND	120000		120000	
1,3-Dichlorobenzene	--	541-73-1	147.00	ND		ND	N.E.		N.E.	
1,4-Dichlorobenzene	C	106-46-7	147.00	ND		ND	LFC		450000	
Benzyl chloride	C	100-44-7	126.00	ND		ND	5200		5200	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	300000		300000	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	37000		N.E.	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	210		N.E.	
Naphthalene	C	91-20-3	128.17	ND		ND	52000		52000	

**The concentrations of each isomer should be added if multiple isomers are present and compared to the total screening level.

The > column is used to flag exceedences as marked

Exposure Limit Definitions

REL= Recommended Exposure Limit, PEL= Permissible Exposure Limit

Compound Exposure Definitions

NE= No Limit Established

LFC= Lowest Feasible Concentration

NS= No Screening Value

Agency Definitions

NIOSH= The National Institute for Occupational Safety and Health

Reference

Occupational Safety and Health Administration (OSHA) General Industry Air Contaminants Standard (29 CFR 1910.1000)

Toxicity Class (EPA Regional Screening Levels (RSL) Table, Nov 2018)

Carcinogenic (C) Exceedence

Value exceeds the theoretical risk that 1 additional case of cancer will occur in a population of 1 million than statistically expected. Thus is a theoretical risk and not an actual epidemiological one.

NonCarcinogenic (NC) Exceedence

Value exceeds the theoretical risk that 1 in a population of 100,000 will experience deliterious health effects. Thus is a theoretical risk and not an actual epidemiological one.

Qualifier Definitions

ND = Non Detect

B = Compound also found in method blank.

E= Estimated concentration exceeding upper calibration range.

D= Result reported from diluted analysis.