

**EMSL Analytical**

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 #:	<b>Sample</b>
EMSL Sample #:	<b>Sample</b>
Customer ID:	<b>Sample</b>
Customer PO:	<b>Sample</b>

Attn: **MichiganPro.com llc**  
**Home Inspections**  
**Corporate Offices**  
**5632 East Blue Gill Bend**  
**Ellsworth, MI 49729**

Phone: **800-470-7938**  
 Fax:  
 Date Collected: **Date TBA**  
 Date Received: **Date TBA**

Project: **Sample**Sample ID: **Living 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	TBA Sample	WLB	Sample	Sample	250 cc	1

**USEPA Residential Regional Screening Levels (RSL) at THQ 0.1**

<u>Target Compounds</u>	<u>Tox. Basis</u>	<u>CAS#</u>	<u>MW</u>	<u>Result ppbv</u>	<u>Q</u>	<u>Result ug/m3</u>	<u>Carcinogenic ug/m3</u>	<u>&gt;</u>	<u>Non-Carcin. ug/m3</u>	<u>&gt;</u>
Propylene	NC	115-07-1	42.08	ND		ND	N.E.		310	
Freon 12(Dichlorodifluoromethane)	NC	75-71-8	120.90	ND		ND	N.E.		10.0	
Freon 114(1,2-Dichlorotetrafluoroethan	--	76-14-2	170.90	ND		ND	N.E.		N.E.	
Chloromethane	NC	74-87-3	50.49	ND		ND	N.E.		9.40	
n-Butane	--	106-97-8	58.12	1.5		3.6	N.E.		N.E.	
Vinyl chloride	C	75-01-4	62.50	ND		ND	0.170		10.0	
1,3-Butadiene	C	106-99-0	54.09	ND		ND	0.0940		0.210	
Bromomethane	NC	74-83-9	94.94	ND		ND	N.E.		0.520	
Chloroethane	NC	75-00-3	64.52	ND		ND	N.E.		1000	
Ethanol	--	64-17-5	46.07	23		43	N.E.		N.E.	
Bromoethene(Vinyl bromide)	C	593-60-2	106.90	ND		ND	0.0880		0.310	
Freon 11(Trichlorofluoromethane)	--	75-69-4	137.40	ND		ND	N.E.		N.E.	
Isopropyl alcohol(2-Propanol)	NC	67-63-0	60.10	15		37	N.E.		21.0	
Freon 113(1,1,2-Trichlorotrifluoroethan	NC	76-13-1	187.40	ND		ND	N.E.		520	
Acetone	NC	67-64-1	58.08	18		43	N.E.		3200	
1,1-Dichloroethene	NC	75-35-4	96.94	ND		ND	N.E.		21.0	
Acetonitrile	NC	75-05-8	41.00	ND		ND	N.E.		6.30	
Tertiary butyl alcohol(TBA)	--	75-65-0	74.12	ND		ND	N.E.		N.E.	
Bromoethane(Ethyl bromide)	--	74-96-4	108.00	ND		ND	N.E.		N.E.	
3-Chloropropene(Allyl chloride)	C	107-05-1	76.53	ND		ND	0.470		0.100	
Carbon disulfide	NC	75-15-0	76.14	ND		ND	N.E.		73.0	
Methylene chloride	C	75-09-2	84.94	ND		ND	100		63.0	
Acrylonitrile	C	107-13-1	53.00	ND		ND	0.0410		0.210	
Methyl-tert-butyl ether(MTBE)	C	1634-04-4	88.15	ND		ND	11.0		310	
trans-1,2-Dichloroethene	--	156-60-5	96.94	ND		ND	N.E.		N.E.	
n-Hexane	NC	110-54-3	86.17	ND		ND	N.E.		73.0	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	1.80		N.E.	
Vinyl acetate	NC	108-05-4	86.00	ND		ND	N.E.		21.0	
2-Butanone(MEK)	NC	78-93-3	72.10	0.71		2.1	N.E.		520	
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	N.E.		N.E.	
Ethyl acetate	NC	141-78-6	88.10	10		36	N.E.		7.30	
Chloroform	C	67-66-3	119.40	ND		ND	0.120		10.0	
Tetrahydrofuran	NC	109-99-9	72.11	ND		ND	N.E.		210	
1,1,1-Trichloroethane	NC	71-55-6	133.40	ND		ND	N.E.		520	
Cyclohexane	NC	110-82-7	84.16	ND		ND	N.E.		630	
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	ND		ND	N.E.		N.E.	
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	0.470		10.0	
n-Heptane	NC	142-82-5	100.20	ND		ND	N.E.		42.0	
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	0.110		0.730	
Benzene	C	71-43-2	78.11	ND		ND	0.360		3.10	
Trichloroethene	C	79-01-6	131.40	ND		ND	0.480		0.210	
1,2-Dichloropropane	C	78-87-5	113.00	ND		ND	0.760		0.420	
Methyl Methacrylate	NC	80-62-6	100.12	ND		ND	N.E.		73.0	
Bromodichloromethane	C	75-27-4	163.80	ND		ND	0.0760		N.E.	

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EMSL Order #: **491800106**  
 EMSL Sample #: **491800106-1**  
 Customer ID: **MPRH42**  
 Customer PO: **CC-13127E**

Attn: **Admin**  
**MichiganPro Home Inspections**  
**5632 East Blue Gill Bend**  
**Ellsworth, MI 49729**

Phone:  
 Fax:  
 Date Collected:  
 Date Received:

Project: **Sample**Sample ID: **Living Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial	Sample	TBA	Sample	Sample	250 cc	1

**USEPA Residential Regional Screening Levels (RSL) at THQ 0.1**

Target Compounds	Tox. Basis	CAS#	MW	Result ppbv	Q	Result ug/m3	Carcinogenic ug/m3	>	Non-Carcin. ug/m3	>
1,4-Dioxane	C	123-91-1	88.12	ND		ND	0.560		3.10	
4-Methyl-2-pentanone(MIBK)	NC	108-10-1	100.20	ND		ND	N.E.		310	
cis-1,3-Dichloropropene**	C	10061-01-5	111.00	ND		ND	0.700		2.10	
Toluene	NC	108-88-3	92.14	1.1		4.1	N.E.		520	
trans-1,3-Dichloropropene**	C	10061-02-6	111.00	ND		ND	0.700		2.10	
1,1,2-Trichloroethane	C	79-00-5	133.40	ND		ND	0.180		0.0210	
2-Hexanone(MBK)	NC	591-78-6	100.10	ND		ND	N.E.		3.10	
Tetrachloroethene	C	127-18-4	165.80	ND		ND	11.0		4.20	
Dibromochloromethane	--	124-48-1	208.30	ND		ND	N.E.		N.E.	
1,2-Dibromoethane	C	106-93-4	187.80	ND		ND	0.00470		0.940	
Chlorobenzene	NC	108-90-7	112.60	ND		ND	N.E.		5.20	
Ethylbenzene	C	100-41-4	106.20	ND		ND	1.10		100	
Xylene (p,m)	NC	1330-20-7	106.20	ND		ND	N.E.		10.0	
Xylene (Ortho)	NC	95-47-6	106.20	ND		ND	N.E.		10.0	
Styrene	NC	100-42-5	104.10	ND		ND	N.E.		100	
Isopropylbenzene (cumene)	NC	98-82-8	120.19	ND		ND	N.E.		42.0	
Bromoform	C	75-25-2	252.80	ND		ND	2.60		N.E.	
1,1,2,2-Tetrachloroethane	C	79-34-5	167.90	ND		ND	0.0480		N.E.	
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	N.E.		6.30	
2-Chlorotoluene	--	95-49-8	126.60	ND		ND	N.E.		N.E.	
1,2,4-Trimethylbenzene	NC	95-63-6	120.20	ND		ND	N.E.		6.30	
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	0.260		83.0	
Benzyl chloride	C	100-44-7	126.00	ND		ND	0.0570		0.100	
1,2-Dichlorobenzene	NC	95-50-1	147.00	ND		ND	N.E.		21.0	
1,2,4-Trichlorobenzene	NC	120-82-1	181.50	ND		ND	N.E.		0.210	
Hexachloro-1,3-butadiene	C	87-68-3	260.80	ND		ND	0.130		N.E.	
Naphthalene	C	91-20-3	128.17	ND		ND	0.0830		0.310	

\*\*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

RSL= Regional Screening Level at Target Hazard Quotient (THQ) =0.1 if available, otherwise THQ = 1

Agency Definitions

USEPA= United States Environmental Protection Agency

Reference

EPA Regional Screening Levels (RSL) Table, Nov 2017.

Toxicity Class (EPA Regional Screening Levels (RSL) Table, Nov 2017)

C= Carcinogenic

NC= Non-Carcinogenic

Compound Exposure Definitions

NE= No Limit Established

LFC= Lowest Feasible Concentration

NS= No Screening Value

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.

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Attn: **Admin**  
**MichiganPro Home Inspections**  
**5632 East Blue Gill Bend**  
**Ellsworth, MI 49729**

Phone: **800-470-7938**  
 Fax: **Not Available**  
 Date Collected:  
 Date Received:

Project: **Sherry Augustine**Sample ID: **Living Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial					250 cc	1

**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	ND		ND	LFC		210000	
n-Butane	--	106-97-8	58.12	1.5		3.6	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	23		43	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	15		37	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	18		43	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	ND		ND	180000		1800000	
1,1-Dichloroethane	C	75-34-3	98.96	ND		ND	400000		400000	
Vinyl acetate	NC	108-05-4	86.00	ND		ND	14000		N.E.	
2-Butanone(MEK)	NC	78-93-3	72.10	0.71		2.1	590000		590000	
cis-1,2-Dichloroethene	--	156-59-2	96.94	ND		ND	790000		790000	
Ethyl acetate	NC	141-78-6	88.10	10		36	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	ND		ND	1000000		1000000	
2,2,4-Trimethylpentane(Isooctane)	--	540-84-1	114.20	ND		ND	N.E.		N.E.	
Carbon tetrachloride	C	56-23-5	153.80	ND		ND	13000		63000	
n-Heptane	NC	142-82-5	100.20	ND		ND	350000		2000000	
1,2-Dichloroethane	C	107-06-2	98.96	ND		ND	4000		200000	
Benzene	C	71-43-2	78.11	ND		ND	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.	

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Customer ID:

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Attn: **Admin**  
**MichiganPro Home Inspections**  
**5632 East Blue Gill Bend**  
**Ellsworth, MI 49729**

Phone: **800-470-7938**  
 Fax: **Not Available**  
 Date Collected:  
 Date Received:

Project: **Sherry Augustine**Sample ID: **Living Room**

Analysis	Analysis Date	Analyst Init.	Lab File ID	Canister ID	Sample Vol.	Dil. Factor
Initial					250 cc	1

**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	1.1		4.1	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	ND		ND	430000		430000	
Xylene (p,m)	NC	1330-20-7	106.20	ND		ND	430000		430000	
Xylene (Ortho)	NC	95-47-6	106.20	ND		ND	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

**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 2017)

C= Carcinogenic

NC= Non-Carcinogenic

**Compound Exposure Definitions**

NE= No Limit Established

LFC= Lowest Feasible Concentration

NS= No Screening Value

**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.