LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.599	67	73	78	rBV4	5015	10746	1.96%	0.283%
2	2.440	206	211	219	rBV	6210	10904	1.99%	0.288%
3	2.605	233	238	249	rVB2	7388	15942	2.91%	0.420%
4	4.598	556	565	575	rBV2	14883	41152	7.50%	1.085%
5	5.019	623	634	650	rBV	71266	213097	38.85%	5.621%
6	6.062	794	805	820	rBV	72944	193390	35.26%	5.101%
7	6.226	825	832	837	rVV5	2138	5531	1.01%	0.146%
8	6.860	925	936	949	rBV	173312	411285	74.98%	10.848%
9	8.714	1233	1240	1249	rBV	360891	548502	100.00%	14.467%
10	9.000	1283	1287	1293	rVB3	3880	5752	1.05%	0.152%
11	10.110	1462	1469	1482	rBV	349382	469079	85.52%	12.373%
12	10.250	1487	1492	1498	rBV	6214	8453	1.54%	0.223%
13	10.354	1503	1509	1515	rVV	27298	40452	7.37%	1.067%
14	10.695	1561	1565	1572	rBV	16402	25951	4.73%	0.684%
15	11.134	1631	1637	1650	rBV	300858	383637	69.94%	10.119%
16	11.359	1670	1674	1680	rVB	7061	8686	1.58%	0.229%
17	11.433	1680	1686	1694	rBV	29018	52029	9.49%	1.372%
18	11.506	1694	1698	1704	rVB	18766	25694	4.68%	0.678%
19	11.664	1720	1724	1730	rVB	14436	19443	3.54%	0.513%
20	11.805	1742	1747	1754	rVB	68663	85673	15.62%	2.260%
21	12.024	1776	1783	1787	rBV5	6821	10829	1.97%	0.286%
22	12.140	1797	1802	1808	rVB	24253	32283	5.89%	0.852%
23	12.298	1819	1828	1830	rBV	26656	40931	7.46%	1.080%
24	12.323	1830	1832	1835	rVV	12918	13490	2.46%	0.356%
25	12.371	1835	1840	1847	rVB3	21834	38124	6.95%	1.006%
26	12.469	1851	1856	1861	rBV7	5254	10010	1.82%	0.264%
27	12.518	1861	1864	1870	rVB	7029	8739	1.59%	0.231%
28	12.585	1870	1875	1877	rBV	14215	20791	3.79%	0.548%
29	12.609	1877	1879	1883	rVB	11865	12004	2.19%	0.317%
30	12.664	1884	1888	1892	rBV	18923	23938	4.36%	0.631%
31	12.695	1892	1893	1897	rVB2	6386	5852	1.07%	0.154%
32	12.756	1897	1903	1911	rBV3	16220	32098	5.85%	0.847%
33	12.902	1923	1927	1932	rVB3	7560	10921	1.99%	0.288%
34	12.975	1932	1939	1942	rBV	15597	19533	3.56%	0.515%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

35	13.018	1942	1946	1952	rVB	25295	33679	6.14%	0.888%
36	13.097	1952	1959	1961	rBV6	6791	13933	2.54%	0.368%
37	13.158	1966	1969	1972	rVV5	4487	6826	1.24%	0.180%
38	13.225	1975	1980	1984	rVV2	24093	37184	6.78%	0.981%
39	13.316	1990	1995	1996	rVV3	9750	14495	2.64%	0.382%
40	13.347	1996	2000	2005	rVV2	54667	78099	14.24%	2.060%
41	13.426	2009	2013	2016	rVV2	4679	6551	1.19%	0.173%
42	13.475	2017	2021	2030	rVB	46574	65198	11.89%	1.720%
43	13.560	2030	2035	2037	rBV3	9133	12965	2.36%	0.342%
44	13.597	2037	2041	2044	rVV	13036	16661	3.04%	0.439%
45	13.640	2044	2048	2053	rVV4	20744	36502	6.65%	0.963%
46	13.719	2053	2061	2068	rVV2	14908	35382	6.45%	0.933%
47	13.829	2075	2079	2085	rVV	22674	34357	6.26%	0.906%
48	13.908	2085	2092	2097	rVB	23953	36498	6.65%	0.963%
49	13.981	2097	2104	2108	rBV2	24834	38265	6.98%	1.009%
50	14.024	2108	2111	2114	rVB3	9827	12458	2.27%	0.329%
51	14.091	2119	2122	2125	rVB2	9383	9384	1.71%	0.248%
52	14.127	2125	2128	2134	rBV	19320	24581	4.48%	0.648%
53	14.286	2147	2154	2160	rBV	65347	103152	18.81%	2.721%
54	14.377	2165	2169	2173	rBV2	11262	13464	2.45%	0.355%
55	14.426	2173	2177	2181	rBV	18233	23373	4.26%	0.616%
56	14.475	2181	2185	2190	rVB8	5053	8506	1.55%	0.224%
57	14.536	2190	2195	2201	rBV2	45263	64035	11.67%	1.689%
58	14.670	2213	2217	2218	rBV	34095	36575	6.67%	0.965%
59	14.694	2218	2221	2224	rVV	48600	65247	11.90%	1.721%
60	14.725	2224	2226	2231	rVB2	18618	23156	4.22%	0.611%
61	14.780	2231	2235	2237	rBV5	5728	8049	1.47%	0.212%
62	14.810	2237	2240	2242	rVV	9076	9489	1.73%	0.250%
63	14.834	2242	2244	2248	rVB	23248	26388	4.81%	0.696%
64	14.877	2248	2251	2253	rBV3	9654	10425	1.90%	0.275%
65	14.902	2253	2255	2261	rVB4	11916	14655	2.67%	0.387%
66	14.962	2261	2265	2267	rBV2	11249	16817	3.07%	0.444%

Sum of corrected areas: 3791290

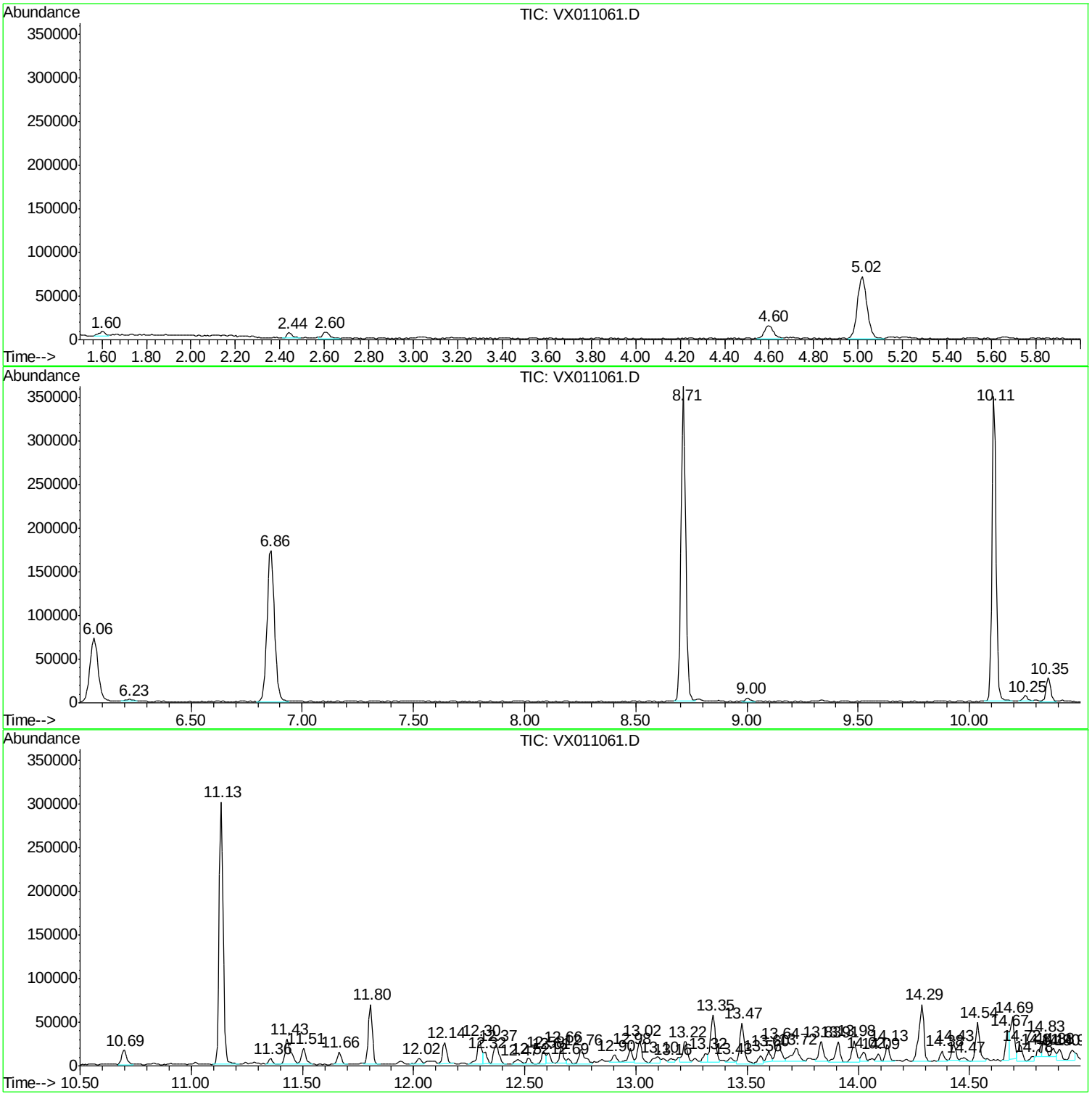
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

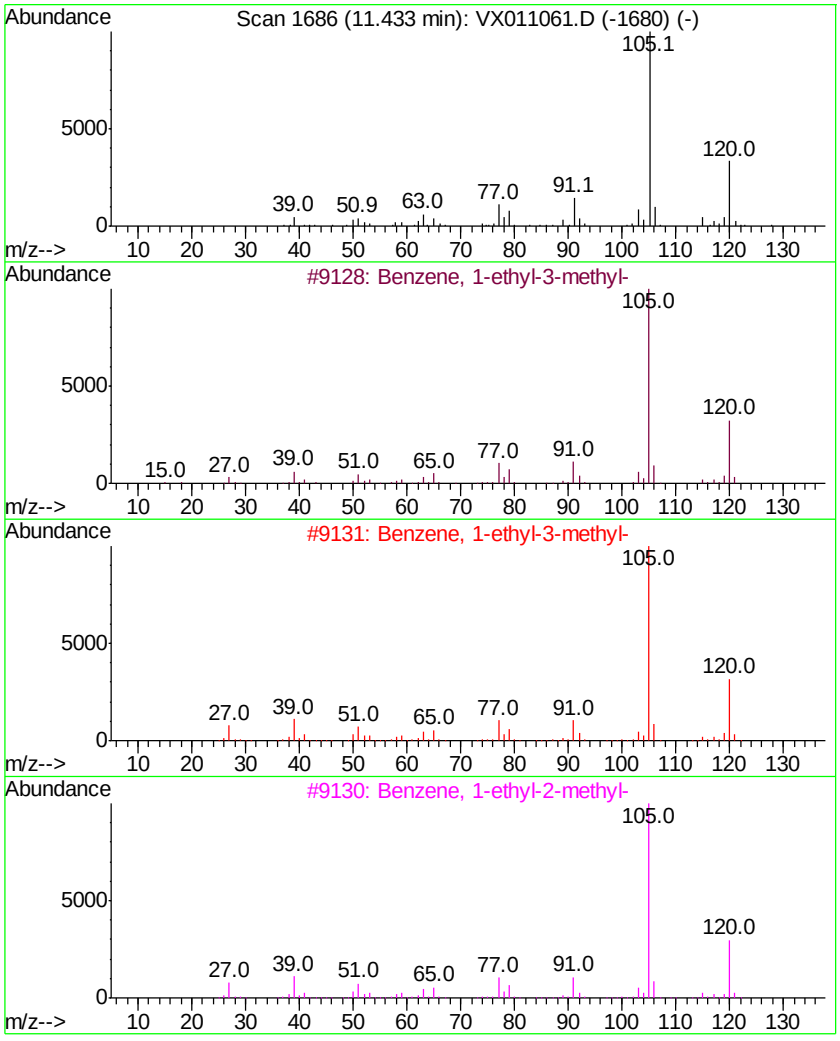
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

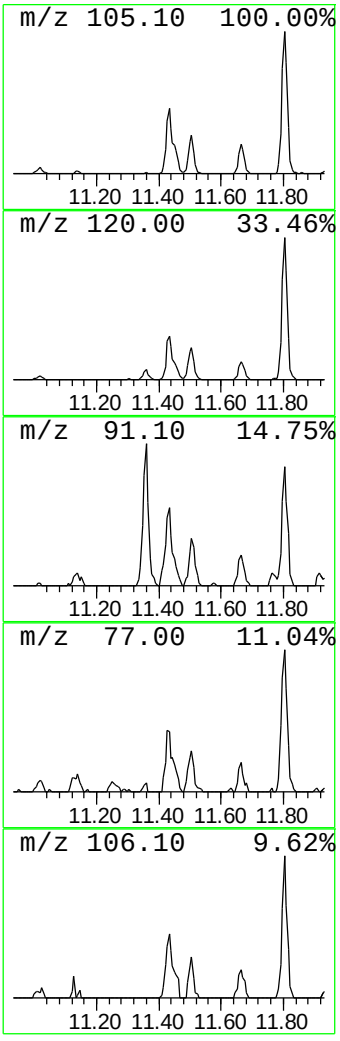
****

Peak Number 1 Benzene, 1-ethyl-3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.43	3.33 ug/l	52029	Chlorobenzene-d5	10.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

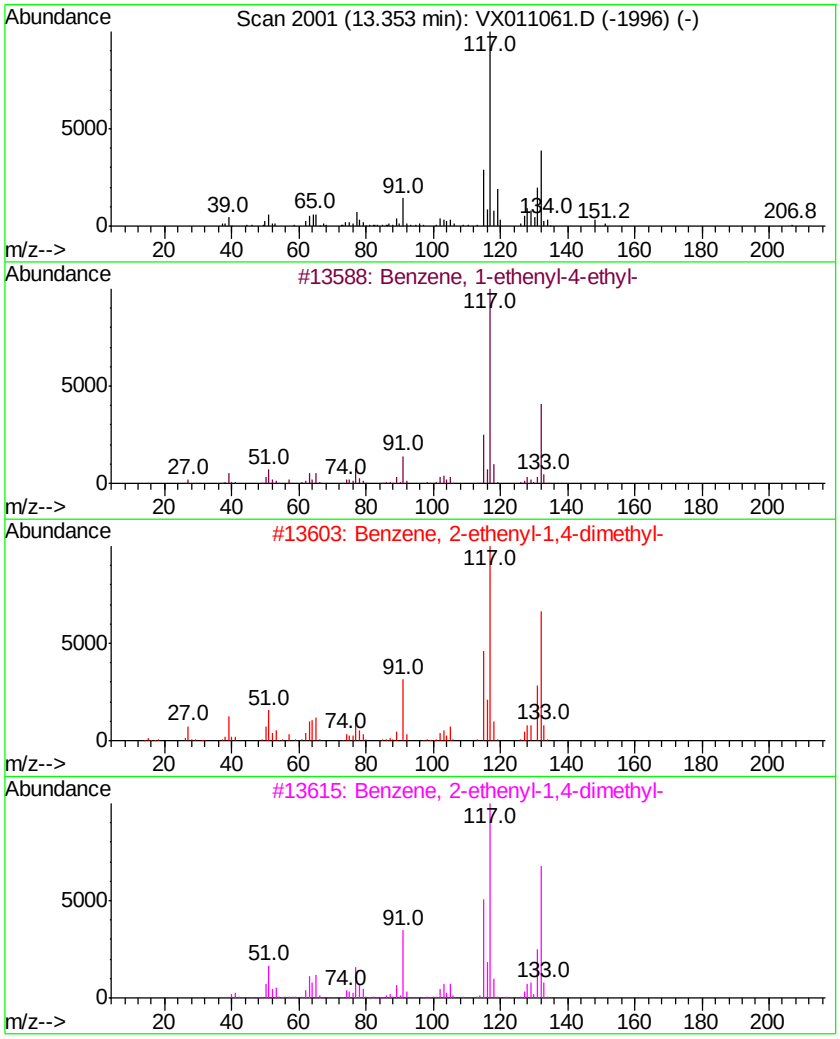
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

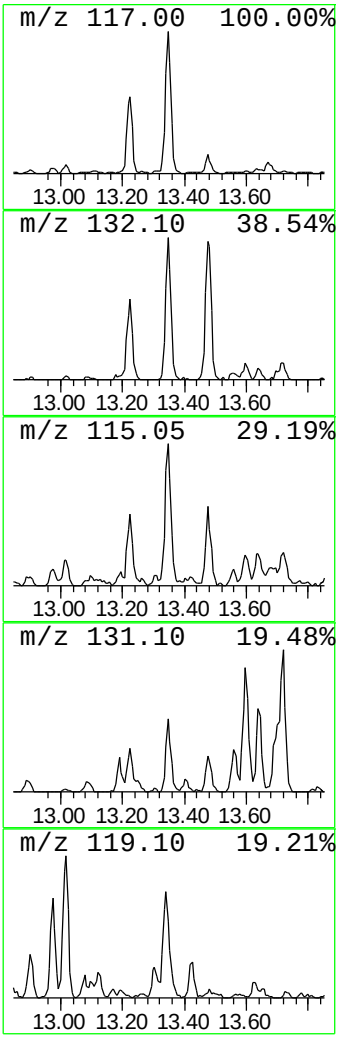
****

Peak Number 2 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.35	4.99 ug/l	78099	Chlorobenzene-d5	10.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
4	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	81
5	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	81





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

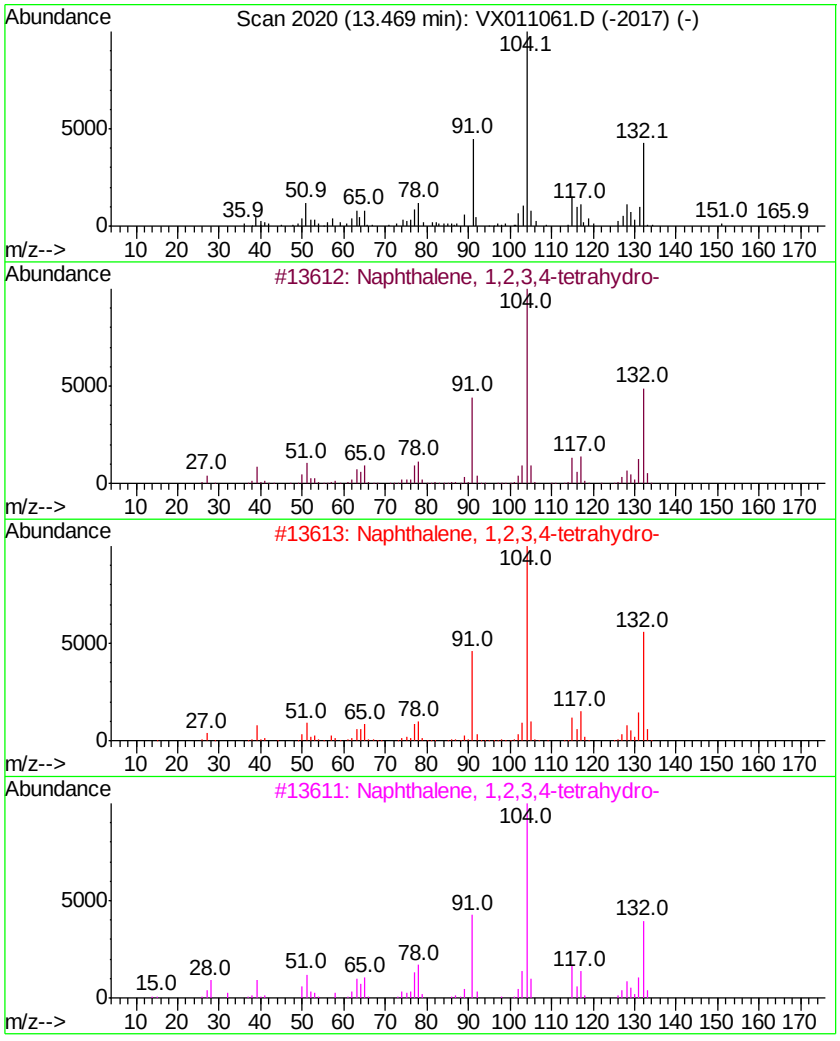
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

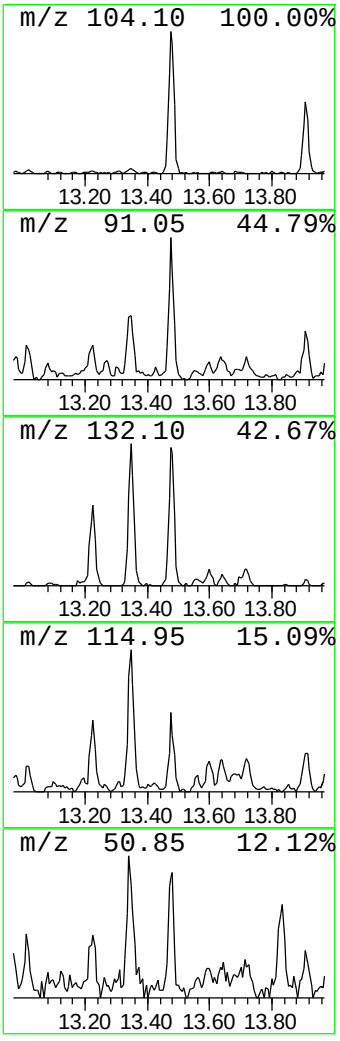
****

Peak Number 3 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	4.17 ug/l	65198	Chlorobenzene-d5	10.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	90
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	90
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	81
5	Indan, epoxide	132	C9H8O	000768-22-9	49





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

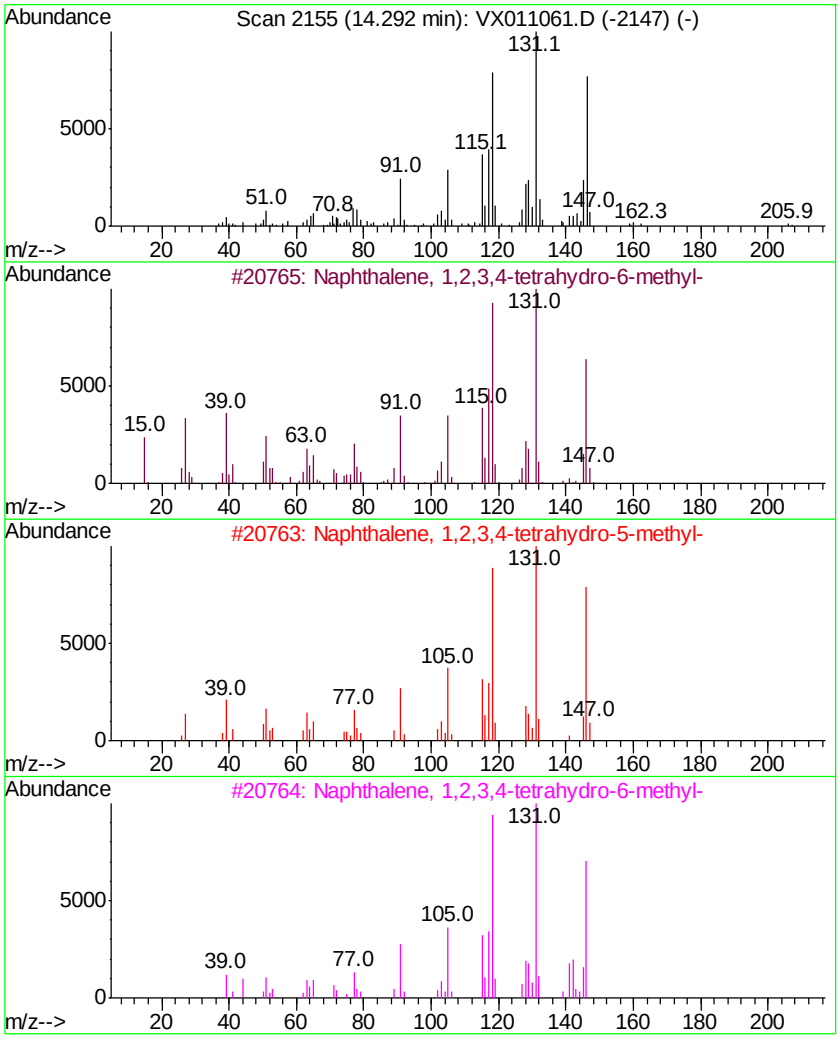
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

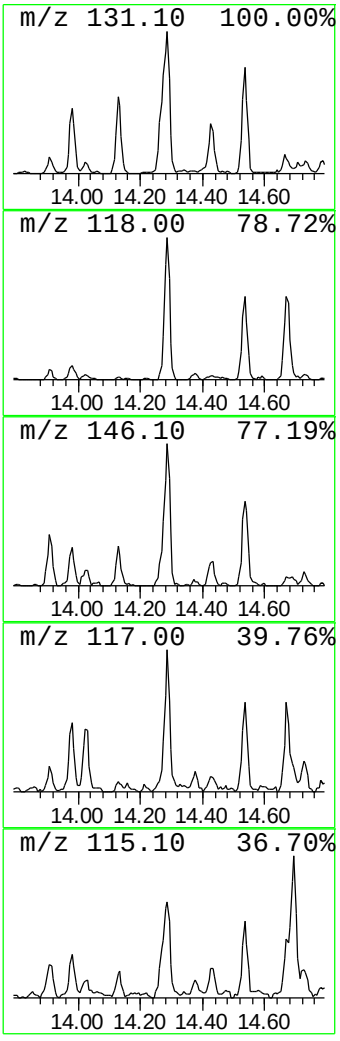
****

Peak Number 4 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.29	6.60 ug/l	103152	Chlorobenzene-d5	10.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	97
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	96
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	95
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	93
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	93





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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

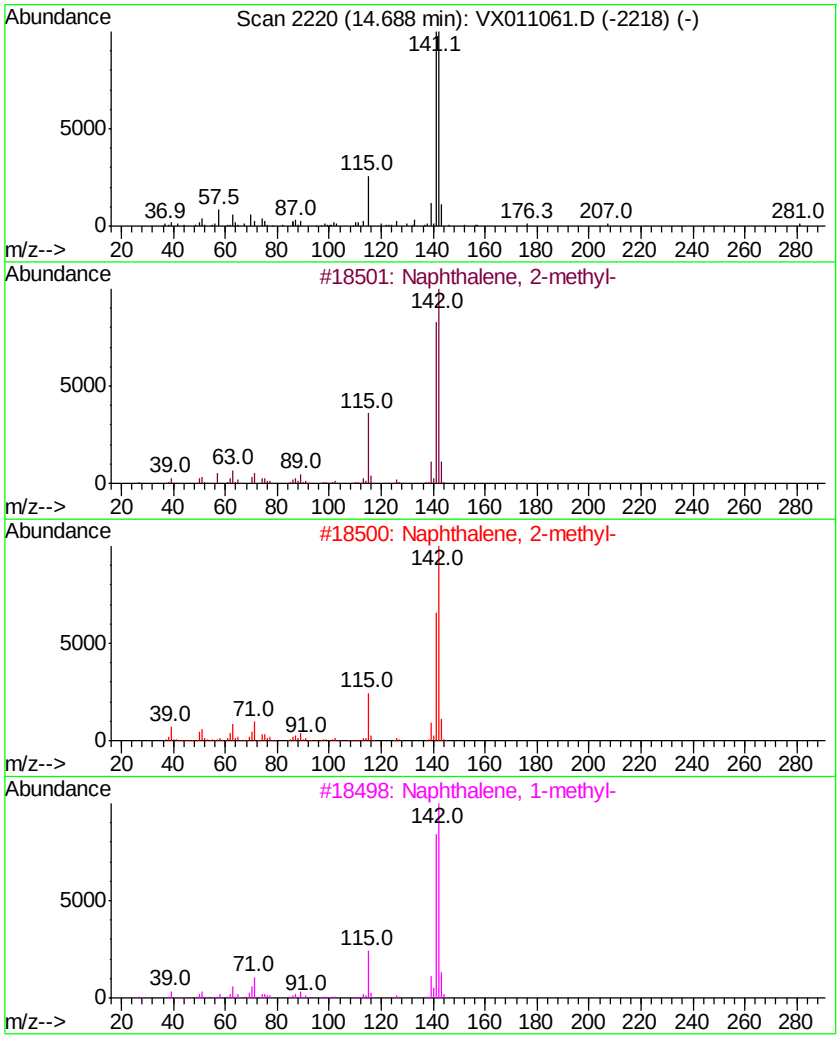
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

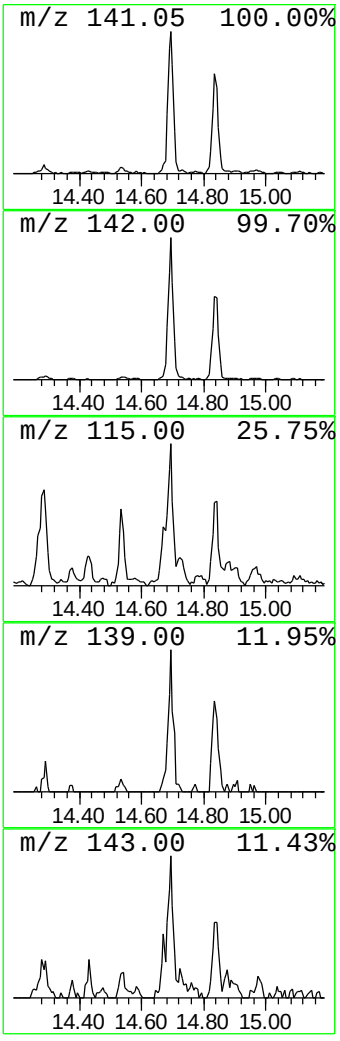
****

Peak Number 6 Naphthalene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.69	4.17 ug/l	65247	Chlorobenzene-d5	10.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072419\
Data File : VX011061.D
Acq On : 24 Jul 2019 16:49
Operator : JC/SP
Sample : K3991-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument : MSVOA_X
ClientSampleId : 55-ST-19

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X071919W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzene, 1-ethyl-...	11.43	3.3	ug/l	52029	3	10.11	469079	30.0
Benzene, 1-etheny...	13.35	5.0	ug/l	78099	3	10.11	469079	30.0
Naphthalene, 1,2,...	13.47	4.2	ug/l	65198	3	10.11	469079	30.0
Naphthalene, 1,2,...	14.29	6.6	ug/l	103152	3	10.11	469079	30.0
Naphthalene, 1-me...	14.69	4.2	ug/l	65247	3	10.11	469079	30.0