LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_R\METHODS\SOMRTR070518WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.627	41	49	89	rBV	5083789	20149379	100.00%	16.524%
2	3.635	364	379	388	rBV2	201790	654212	3.25%	0.536%
3	4.420	491	508	527	rBV4	191036	983206	4.88%	0.806%
4	4.906	574	588	606	rBV3	341605	1526392	7.58%	1.252%
5	6.372	818	829	838	rBV4	347771	1434936	7.12%	1.177%
6	6.476	838	846	858	rVV2	466606	1579903	7.84%	1.296%
7	6.597	858	866	875	rVV	162534	468405	2.32%	0.384%
8	7.206	954	966	973	rBV	432415	1131369	5.61%	0.928%
9	7.522	1006	1018	1025	rBV	626493	1831696	9.09%	1.502%
10	7.613	1025	1033	1047	rVV	995505	3159145	15.68%	2.591%
11	7.857	1059	1073	1090	rVB2	986667	3282742	16.29%	2.692%
12	8.027	1090	1101	1103	rBV3	518293	1040222	5.16%	0.853%
13	8.100	1103	1113	1122	rVV	4454100	14489952	71.91%	11.883%
14	8.173	1122	1125	1141	rVB2	345370	891251	4.42%	0.731%
15	8.465	1165	1173	1180	rBV	905687	1747195	8.67%	1.433%
16	8.903	1237	1245	1248	rBV	595534	1274702	6.33%	1.045%
17	8.958	1248	1254	1260	rVV2	1824059	4194964	20.82%	3.440%
18	9.019	1260	1264	1273	rVV	993758	2048164	10.16%	1.680%
19	9.116	1273	1280	1290	rVV2	319487	1040867	5.17%	0.854%
20	9.244	1292	1301	1308	rVB3	151418	371710	1.84%	0.305%
21	9.402	1318	1327	1340	rBV	3290538	8276204	41.07%	6.787%
22	9.542	1341	1350	1367	rVV	4250739	10065350	49.95%	8.254%
23	9.682	1367	1373	1376	rVV	261595	445747	2.21%	0.366%
24	9.724	1376	1380	1386	rVV2	334816	669041	3.32%	0.549%
25	9.779	1386	1389	1398	rVB2	118802	214594	1.07%	0.176%
26	9.907	1398	1410	1415	rBV	1638411	3047997	15.13%	2.500%
27	9.968	1415	1420	1435	rVB2	1980191	3732410	18.52%	3.061%
28	10.144	1444	1449	1458	rVB5	224159	557680	2.77%	0.457%
29	10.235	1459	1464	1470	rBV	143256	255975	1.27%	0.210%
30	10.315	1471	1477	1487	rVB	498513	923985	4.59%	0.758%
31	10.430	1487	1496	1504	rBV2	426360	993073	4.93%	0.814%
32	10.588	1514	1522	1529	rBV2	786561	1345400	6.68%	1.103%
33	10.704	1534	1541	1548	rVB	132707	289991	1.44%	0.238%
34	10.832	1558	1562	1567	rVV2	292397	451362	2.24%	0.370%

LSC Area Percent Report

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Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_R\METHODS\SOMRTR070518WMA.M
Title : TRACE VOA SOM01.0

35	10.886	1567	1571	1576	rVB	260360	409630	2.03%	0.336%
36	11.008	1585	1591	1595	rBV2	132285	212758	1.06%	0.174%
37	11.093	1601	1605	1615	rVB2	173792	292676	1.45%	0.240%
38	11.288	1630	1637	1642	rBV2	1452192	2328771	11.56%	1.910%
39	11.373	1646	1651	1656	rVB2	371215	643344	3.19%	0.528%
40	11.543	1672	1679	1684	rBV4	358761	707584	3.51%	0.580%
41	11.805	1715	1722	1729	rVV5	144437	342612	1.70%	0.281%
42	11.927	1737	1742	1746	rVB	161346	225904	1.12%	0.185%
43	12.000	1750	1754	1757	rVV2	174571	263557	1.31%	0.216%
44	12.042	1757	1761	1765	rVB3	139164	241342	1.20%	0.198%
45	12.127	1771	1775	1780	rBV	291645	440339	2.19%	0.361%
46	12.267	1793	1798	1805	rVB	596203	905849	4.50%	0.743%
47	12.359	1805	1813	1820	rBV3	337540	665067	3.30%	0.545%
48	12.438	1820	1826	1829	rBV3	222643	498477	2.47%	0.409%
49	12.468	1829	1831	1836	rVB	340050	419873	2.08%	0.344%
50	12.614	1847	1855	1862	rBV9	195880	636809	3.16%	0.522%
51	12.845	1889	1893	1896	rVV	530148	870204	4.32%	0.714%
52	12.870	1896	1897	1901	rVV	352128	326285	1.62%	0.268%
53	12.973	1909	1914	1919	rBV	184752	310906	1.54%	0.255%
54	13.028	1919	1923	1924	rBV2	202602	233843	1.16%	0.192%
55	13.046	1924	1926	1930	rVV	182258	268811	1.33%	0.220%
56	13.119	1935	1938	1941	rVB2	176414	219161	1.09%	0.180%
57	13.222	1949	1955	1960	rVB	1053436	1640255	8.14%	1.345%
58	13.283	1960	1965	1967	rBV4	120277	231347	1.15%	0.190%
59	13.393	1979	1983	1985	rBV	242637	340413	1.69%	0.279%
60	13.423	1985	1988	1993	rVB	425287	610035	3.03%	0.500%
61	13.514	1998	2003	2007	rBV	810725	1375868	6.83%	1.128%
62	13.715	2031	2036	2040	rBV4	204630	394224	1.96%	0.323%
63	13.764	2040	2044	2049	rVB	510993	728923	3.62%	0.598%
64	13.819	2049	2053	2057	rVB3	249807	350782	1.74%	0.288%
65	13.873	2057	2062	2066	rVB3	466554	721800	3.58%	0.592%
66	13.940	2066	2073	2078	rBV6	179878	334325	1.66%	0.274%
67	14.062	2078	2093	2095	rBV7	369536	1327913	6.59%	1.089%
68	14.086	2095	2097	2104	rVB	423426	533782	2.65%	0.438%
69	14.464	2153	2159	2164	rVV3	549679	1106028	5.49%	0.907%
70	14.518	2164	2168	2175	rVB2	792187	1247129	6.19%	1.023%
71	14.597	2175	2181	2184	rBV5	129522	230246	1.14%	0.189%

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Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_R\METHODS\SOMRTR070518WMA.M
Title : TRACE VOA SOM01.0

72	14.731	2198	2203	2206	rVB2	161189	217273	1.08%	0.178%
73	14.829	2215	2219	2224	rVB4	176267	322834	1.60%	0.265%
74	14.920	2231	2234	2238	rVB2	232271	292008	1.45%	0.239%
75	14.987	2241	2245	2250	rBV	628433	832150	4.13%	0.682%
76	15.102	2260	2264	2270	rBV6	139348	287363	1.43%	0.236%
77	15.303	2295	2297	2301	rVV2	159107	229494	1.14%	0.188%
78	15.358	2301	2306	2311	rVV4	205329	421991	2.09%	0.346%
79	15.437	2312	2319	2323	rVB7	98075	246048	1.22%	0.202%
80	15.759	2368	2372	2376	rVV3	141354	219132	1.09%	0.180%
81	15.808	2377	2380	2388	rVB2	127135	258693	1.28%	0.212%
82	15.887	2388	2393	2400	rBV	424116	702244	3.49%	0.576%
83	16.185	2437	2442	2447	rBV7	146080	287503	1.43%	0.236%
84	16.721	2525	2530	2540	rVB4	204644	418624	2.08%	0.343%

Sum of corrected areas: 121941450

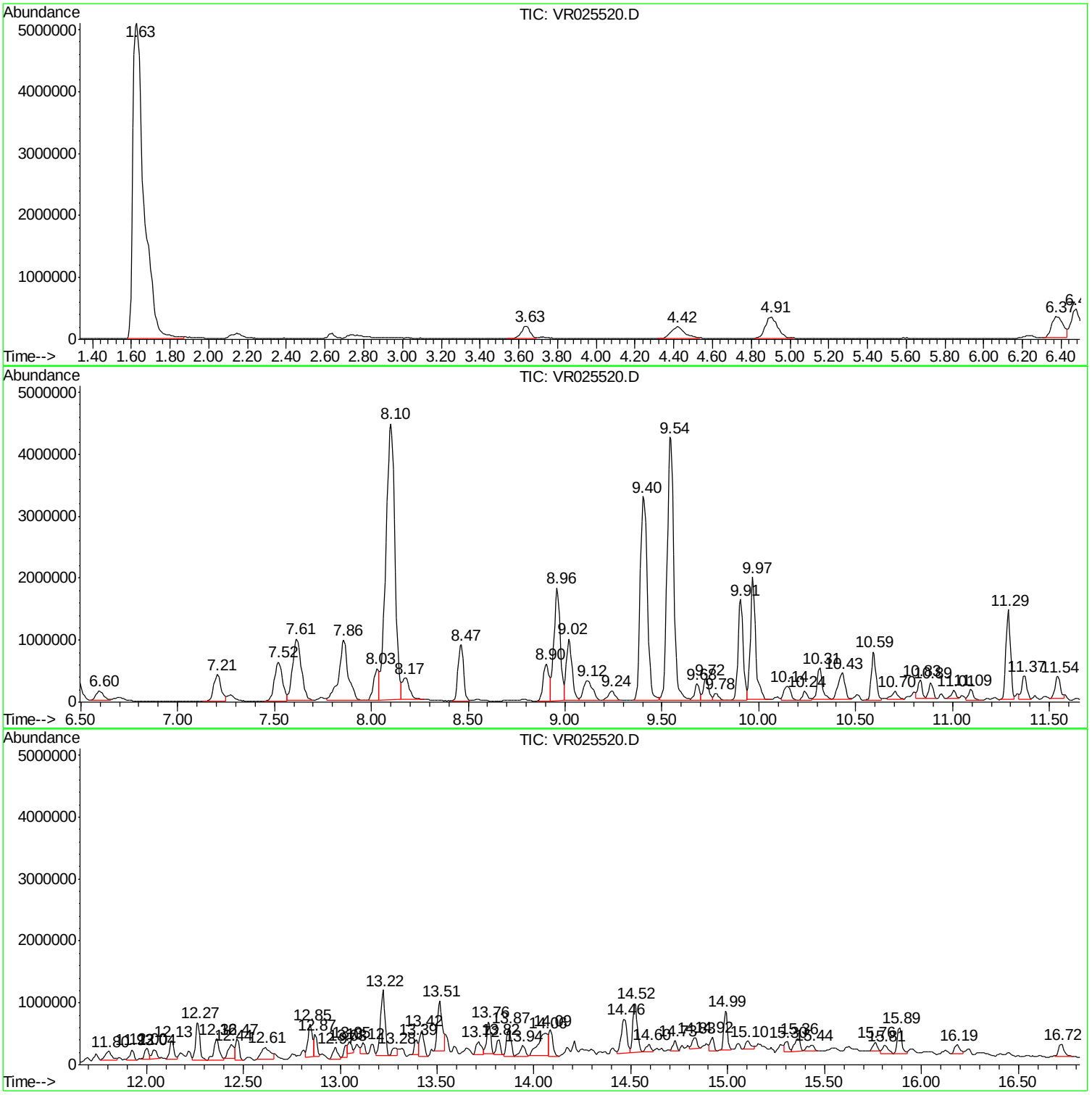
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

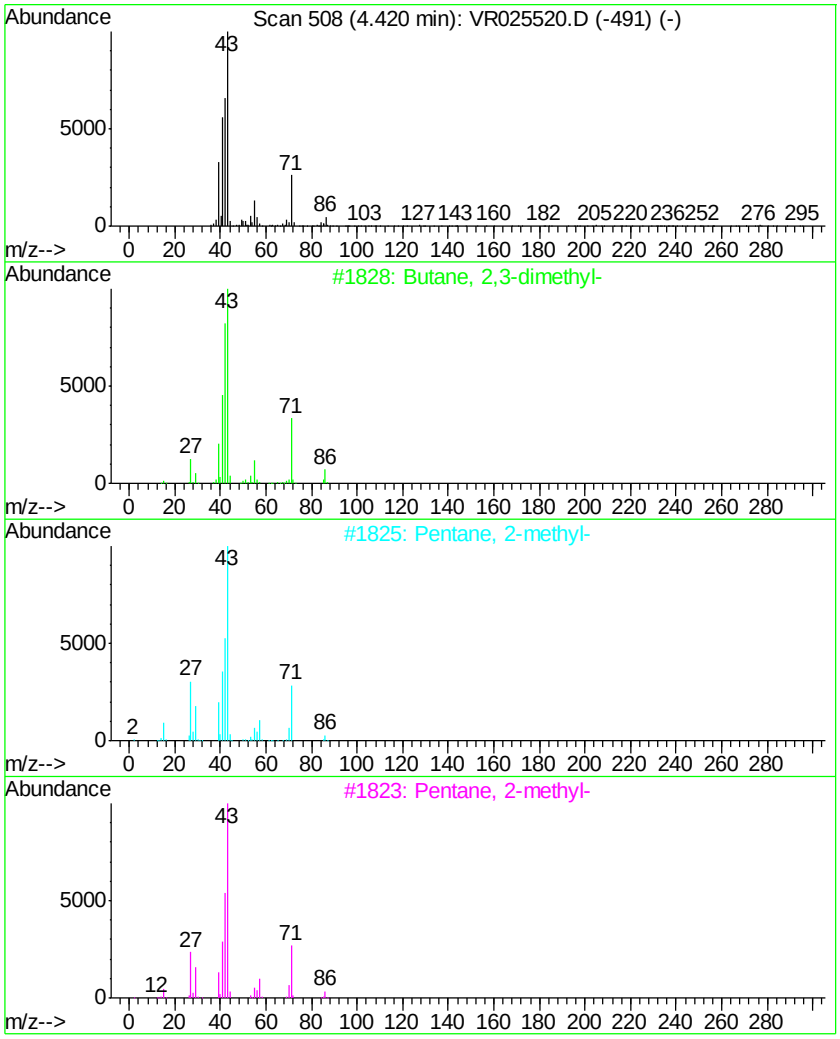
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

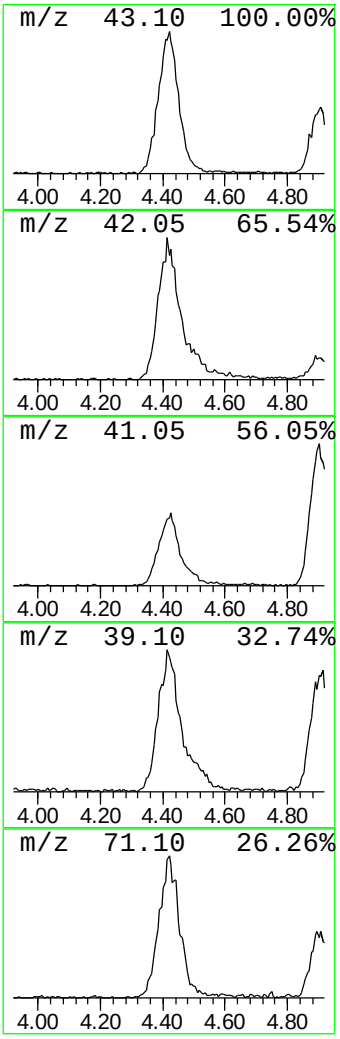
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.42	2.81 ug/L	983206	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
2	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
3	Pentane, 2-methyl-	86	C6H14	000107-83-5	72
4	trans-2,3-Epoxydecane	156	C10H20O	054125-39-2	64
5	Pyrrolidine	71	C4H9N	000123-75-1	32





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

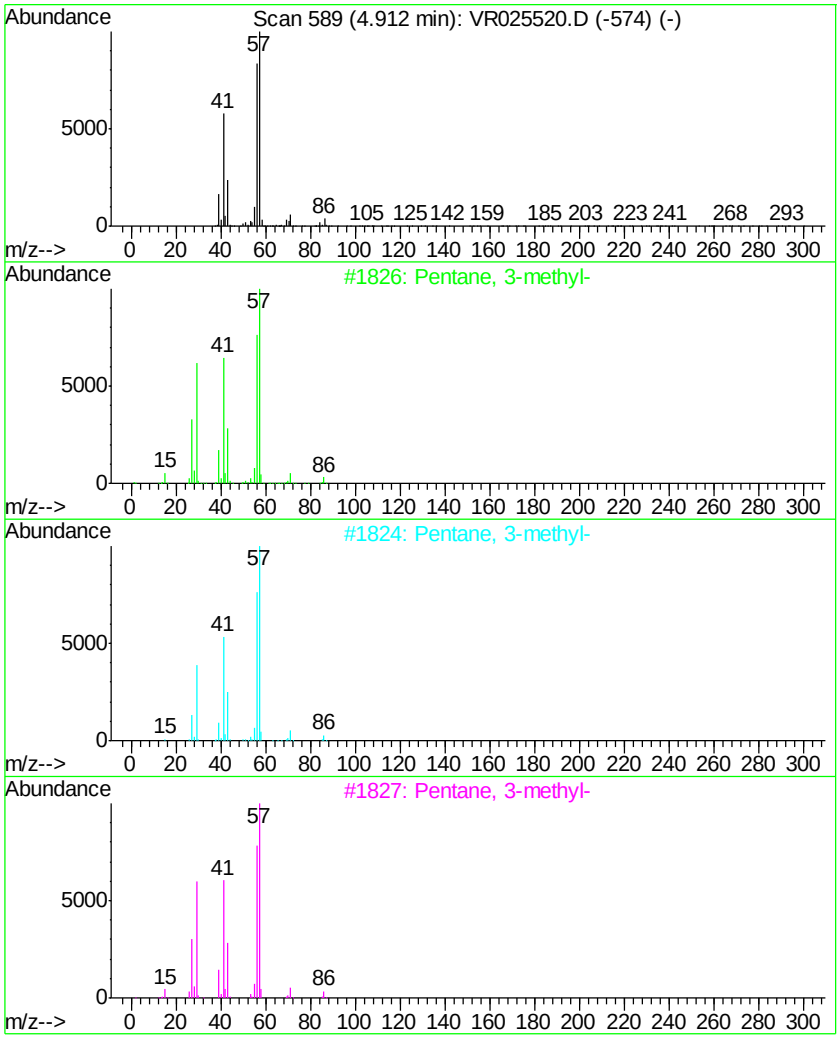
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

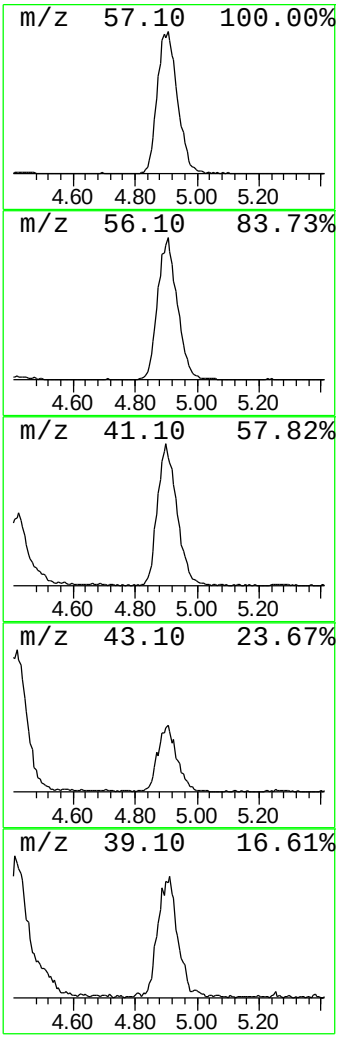
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.91	4.37 ug/L	1526390	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	87
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	83
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	80
4	Decane, 2,2,3-trimethyl-	184	C13H28	062338-09-4	64
5	Pentane, 2,2,3-trimethyl-	114	C8H18	000564-02-3	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

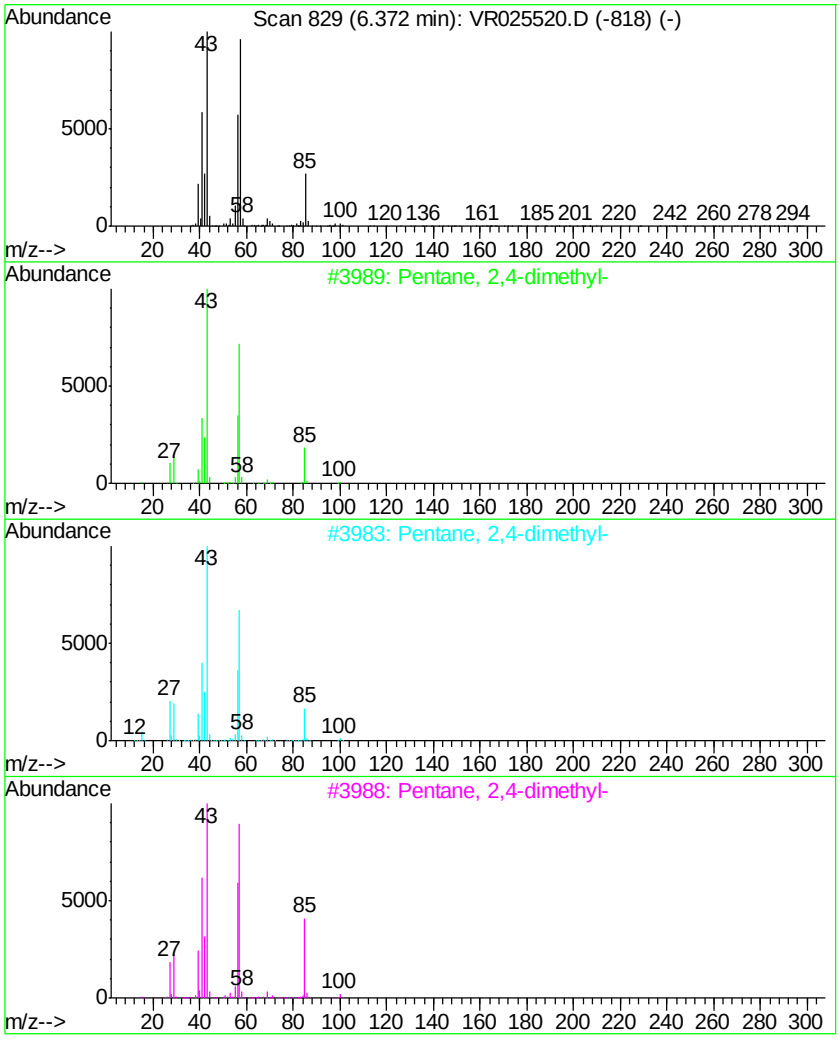
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

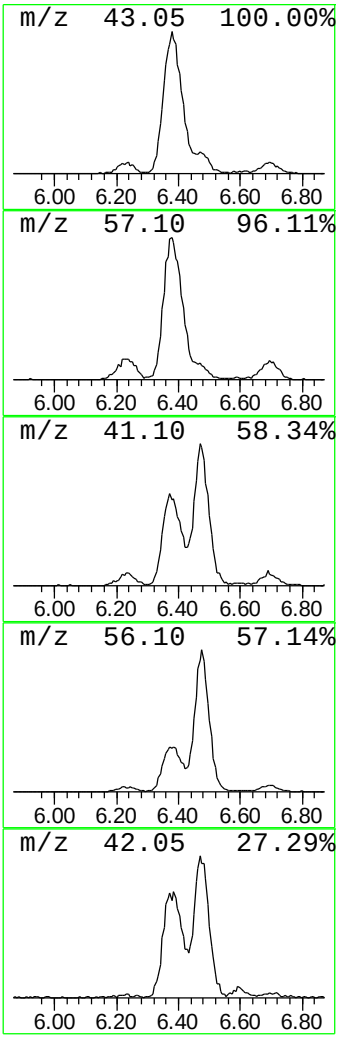
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.37	4.11 ug/L	1434940	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	91
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	53
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

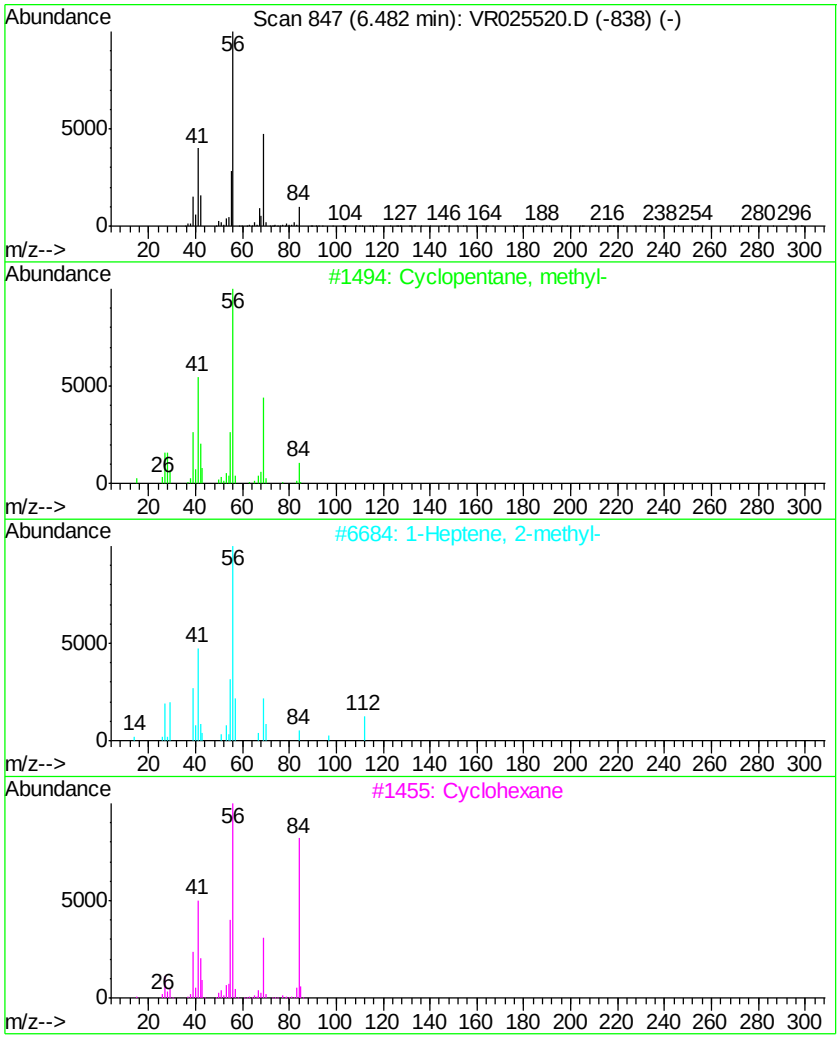
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

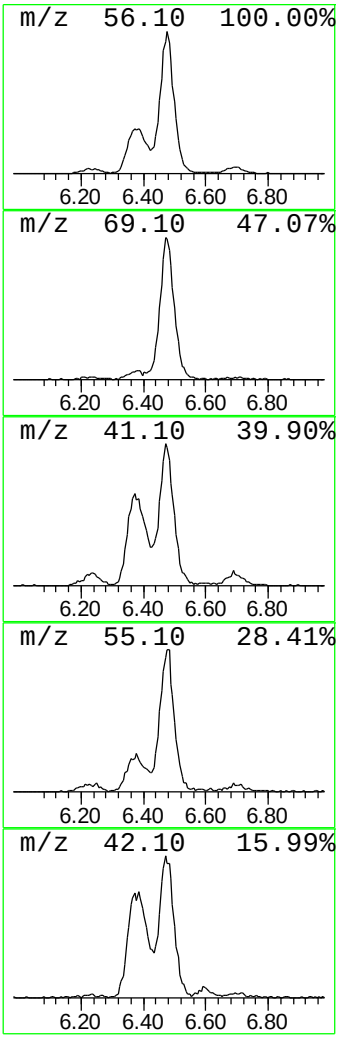
****

Peak Number 5 (DEL) Alkane: Cyclic6.48 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.48	4.52 ug/L	1579900	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	90
2	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	56
3	Cyclohexane	84	C6H12	000110-82-7	47
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	45
5	Cyclopentane, methyl-	84	C6H12	000096-37-7	45





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Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

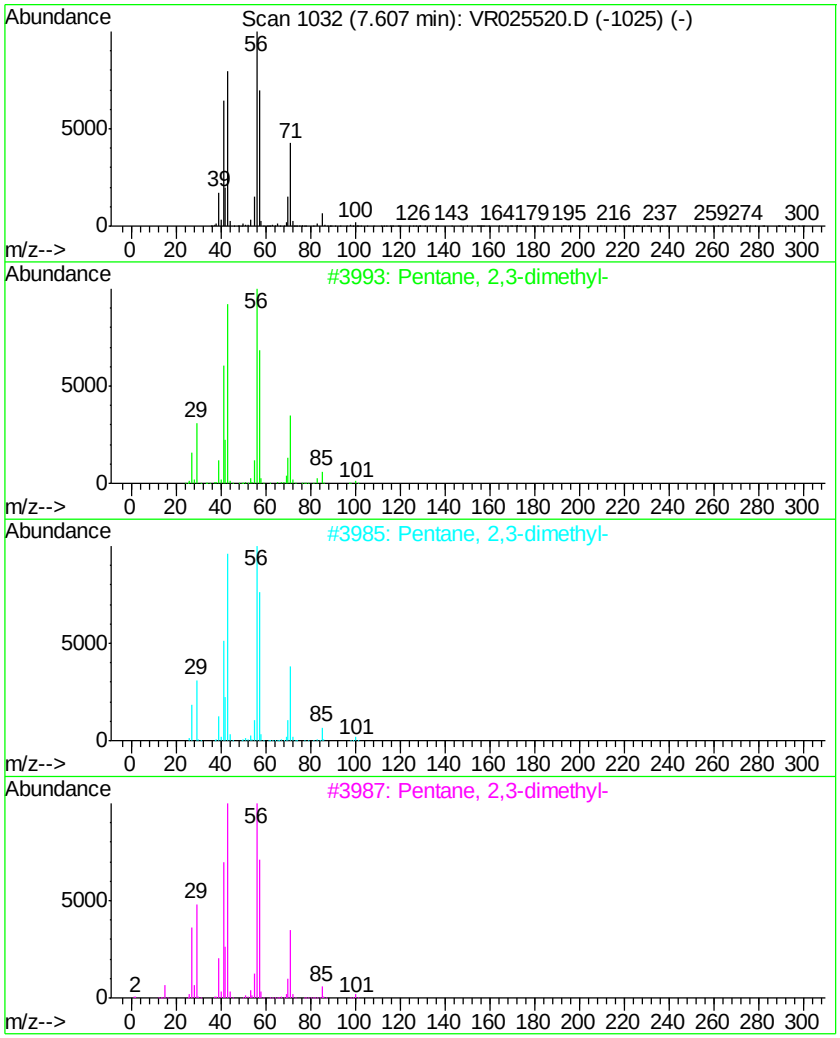
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

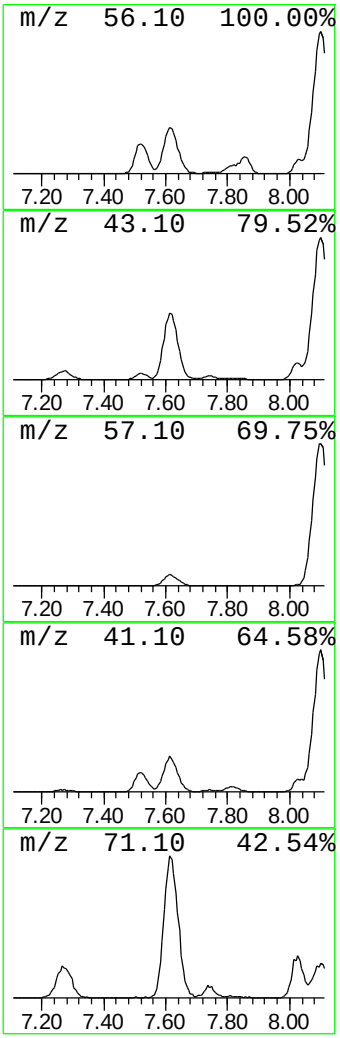
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	9.04 ug/L	3159150	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	90
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	58
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	42





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

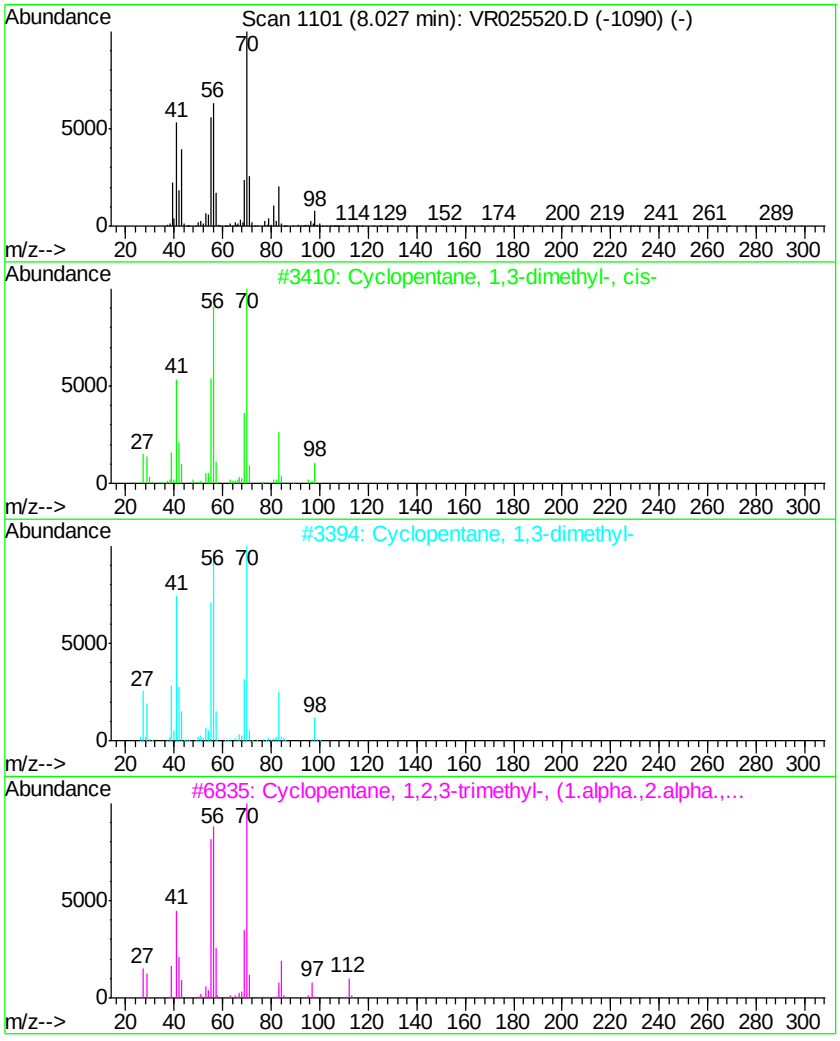
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

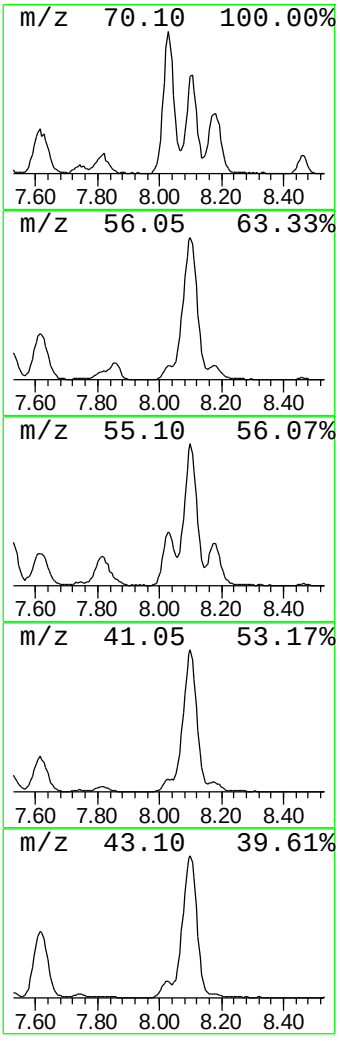
****

Peak Number 7 (DEL) Alkane: Cyclic8.03 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.03	2.98 ug/L	1040220	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	80
2	Cyclopentane, 1,3-dimethyl-	98	C7H14	002453-00-1	64
3	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	015890-40-1	59
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	55
5	Cyclopentane, 1,3-dimethyl-, cis-	98	C7H14	002532-58-3	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

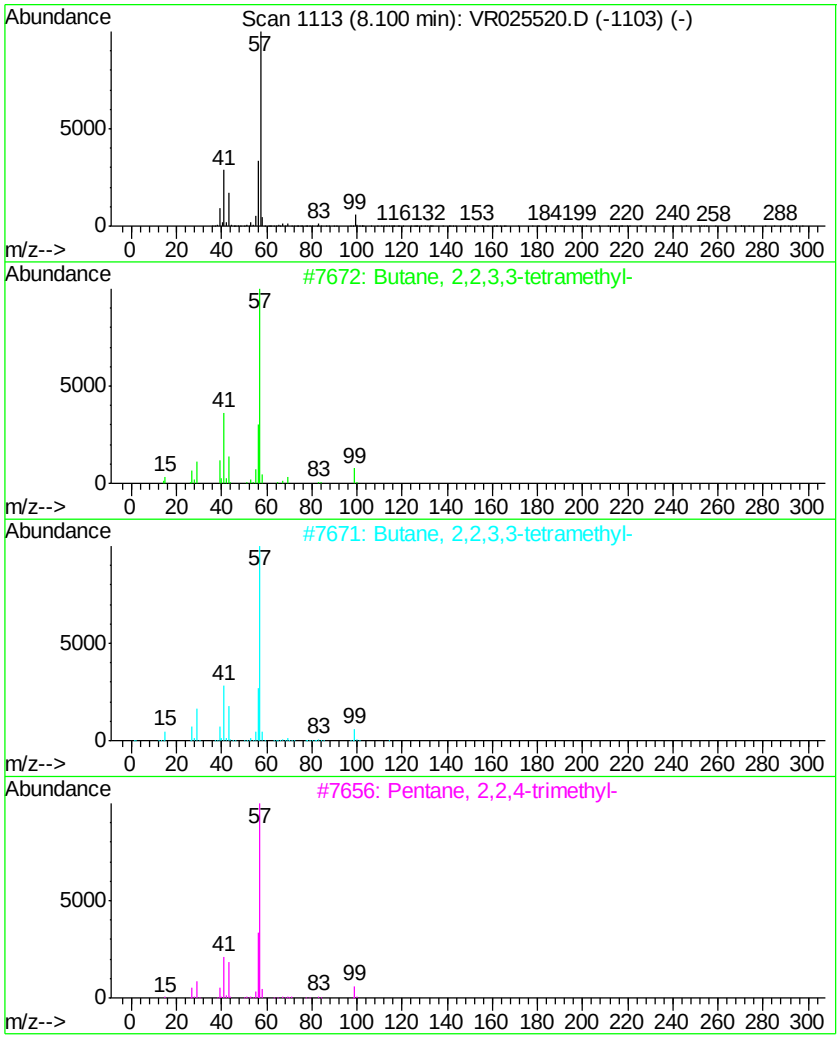
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

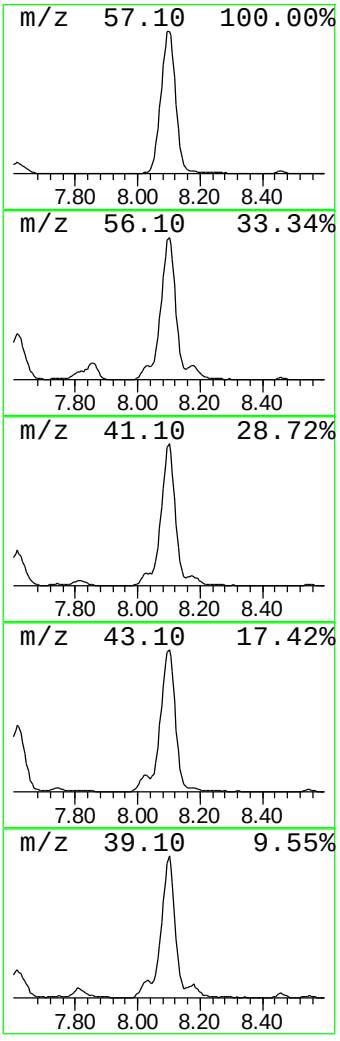
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.10	41.47 ug/L	14490000	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
2	Butane, 2,2,3,3-tetramethyl-	114	C8H18	000594-82-1	78
3	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	72
5	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	72





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Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

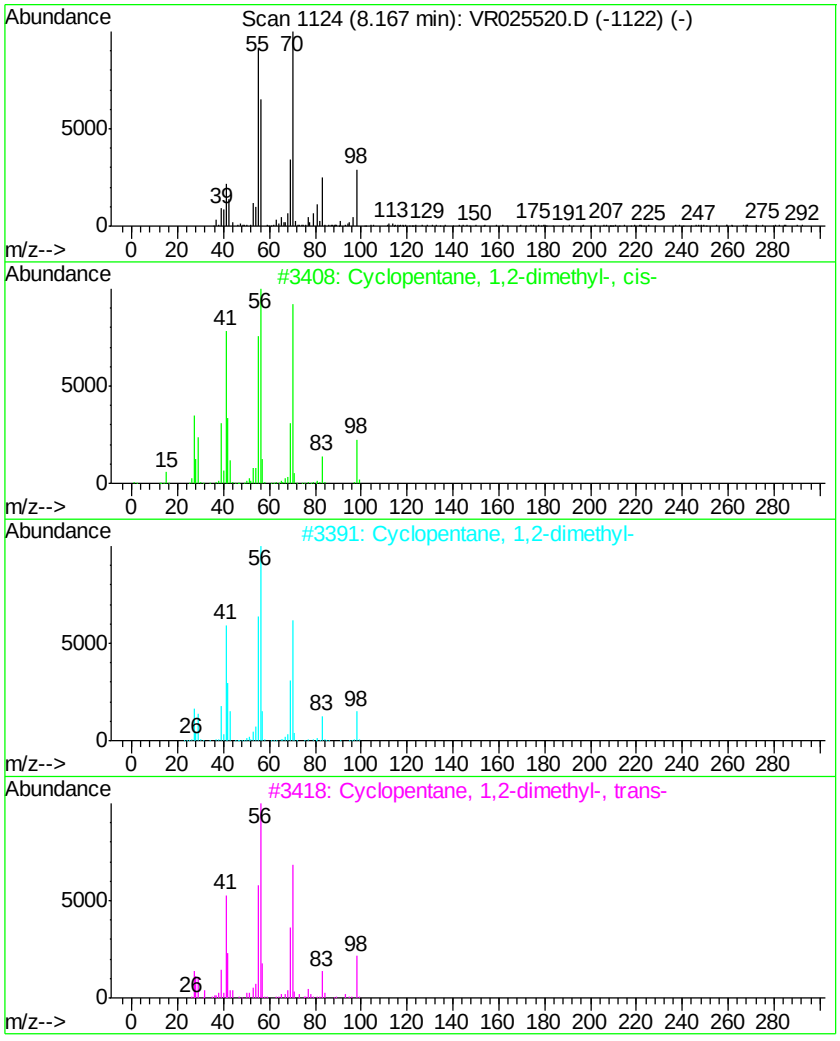
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

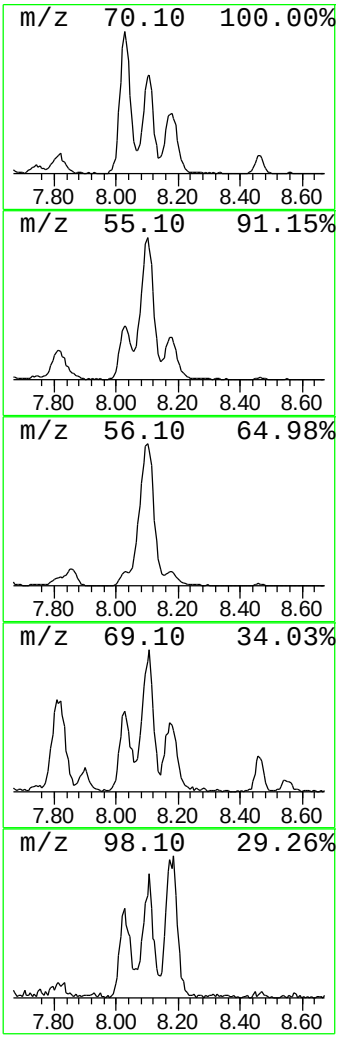
****

Peak Number 9 (DEL) Alkane: Cyclic8.17 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.17	2.55 ug/L	891251	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	72
2	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	72
3	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	64
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	50
5	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

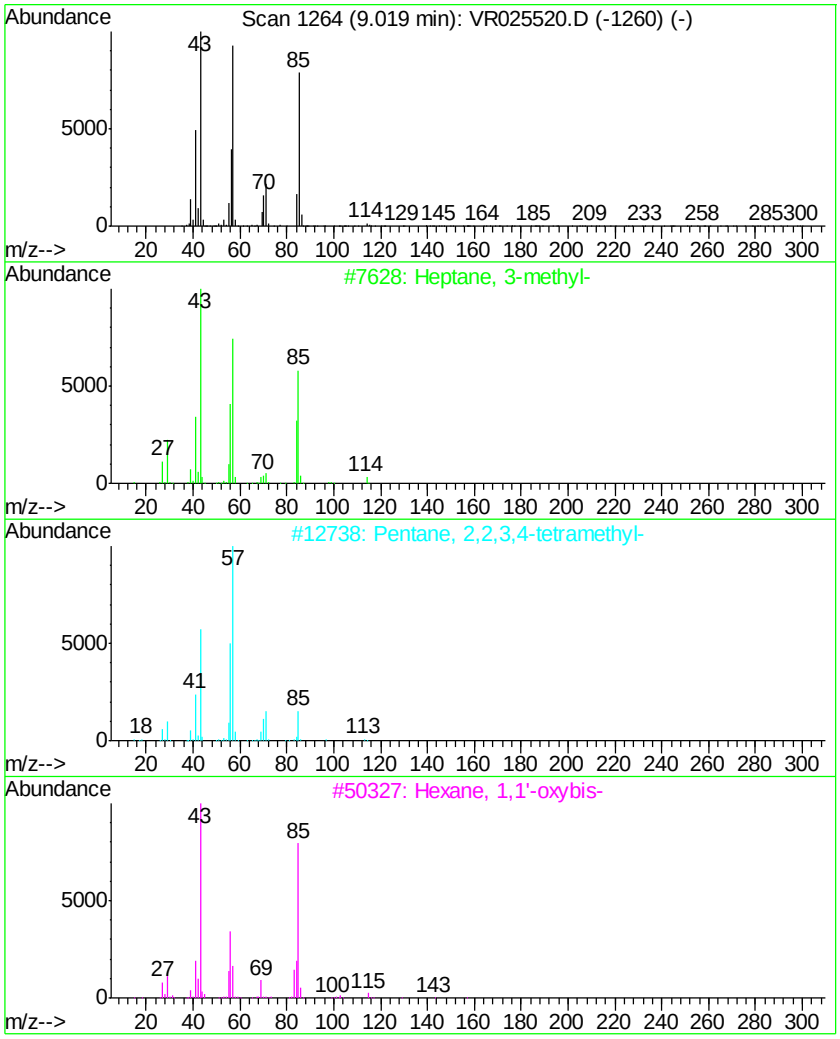
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

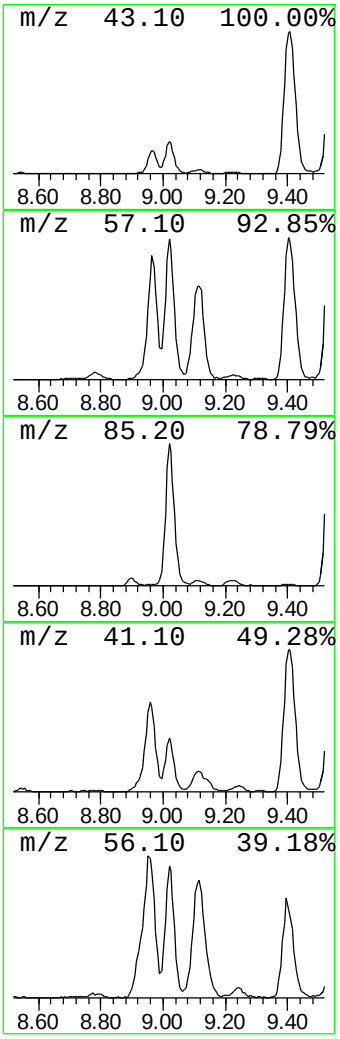
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.02	5.86 ug/L	2048160	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-methyl-	114	C8H18	000589-81-1	83
2	Pentane, 2,2,3,4-tetramethyl-	128	C9H20	001186-53-4	83
3	Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	64
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
5	Heptane, 4,4-dimethyl-	128	C9H20	001068-19-5	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

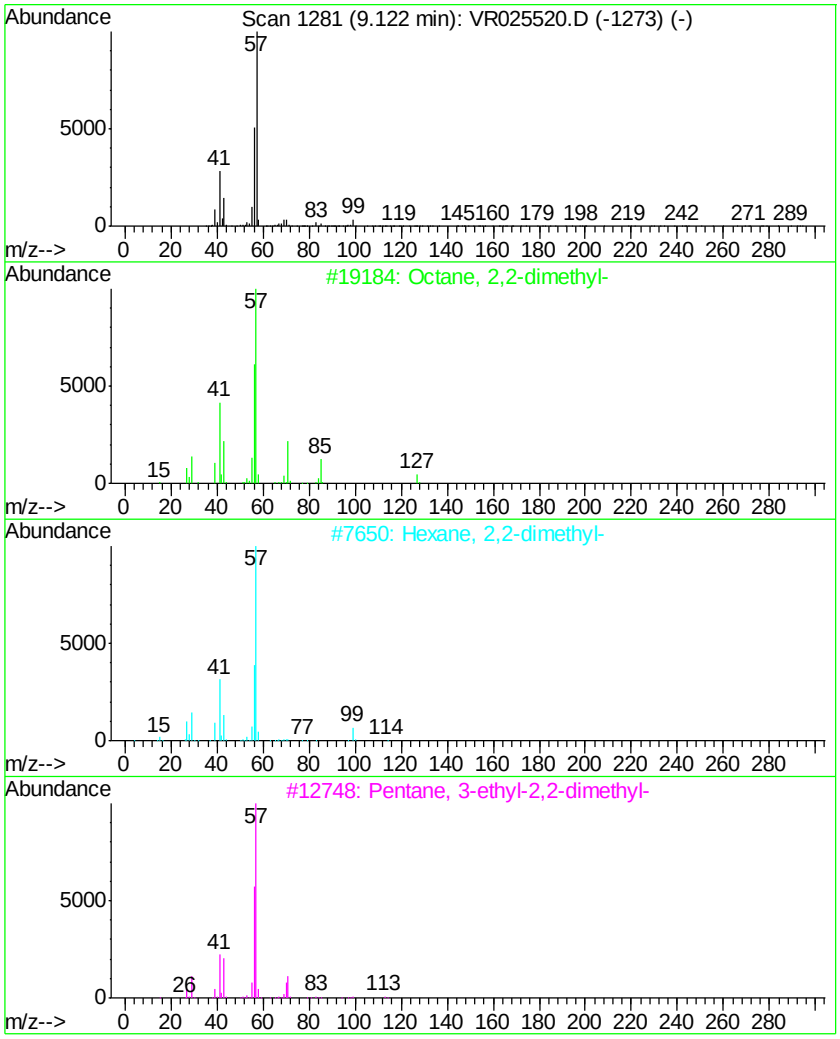
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

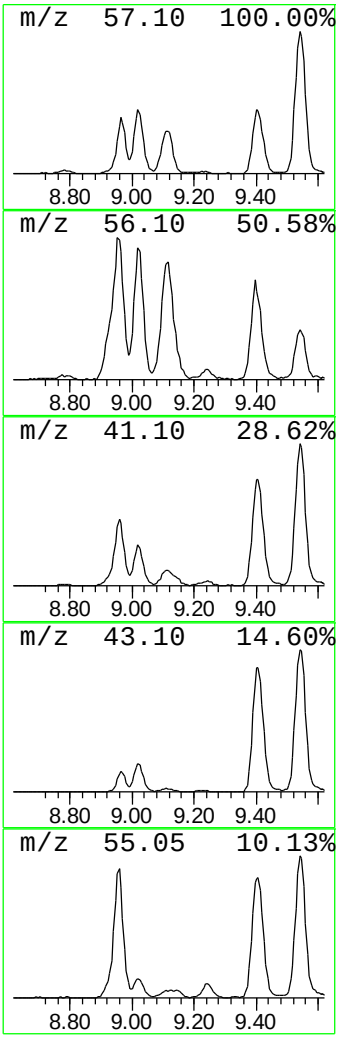
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.12	2.98 ug/L	1040870	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	59
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	59
3	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	59
4	Pentane, 2,2,4-trimethyl-	114	C8H18	000540-84-1	59
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

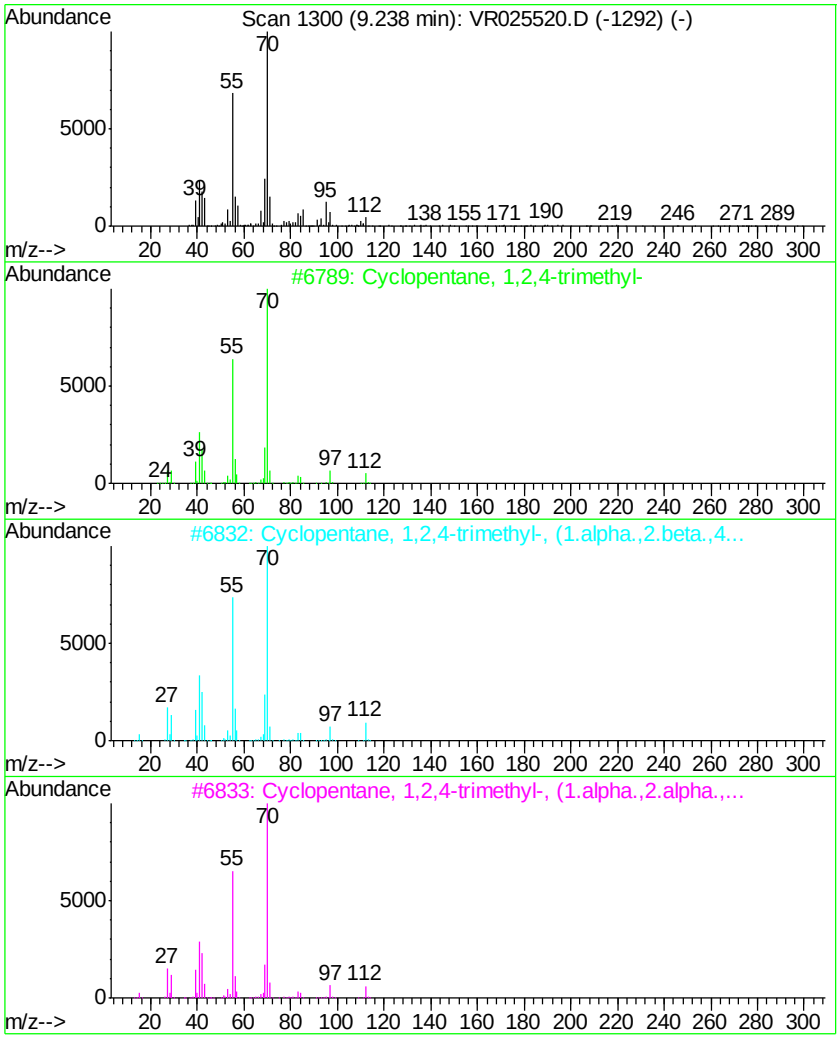
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

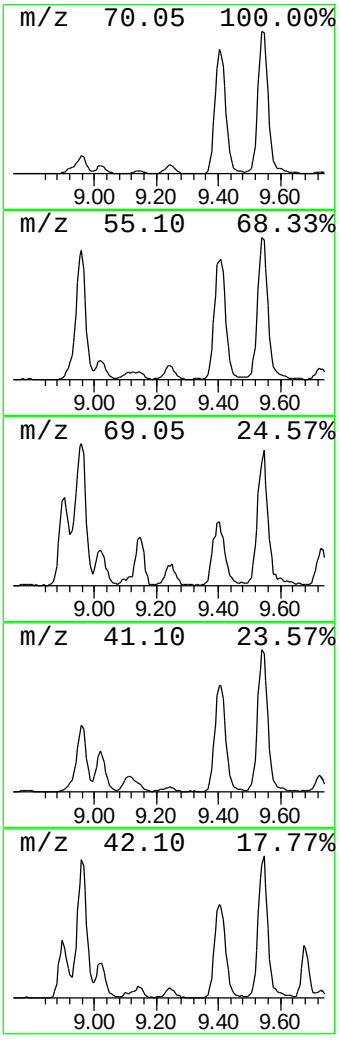
****

Peak Number 12 (DEL) Alkane: Cyclic9.24 Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.24	1.06 ug/L	371710	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	87
2	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	83
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	80
4	Heptane, 3-methylene-	112	C8H16	001632-16-2	72
5	Hexane, 2-methyl-4-methylene-	112	C8H16	003404-80-6	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

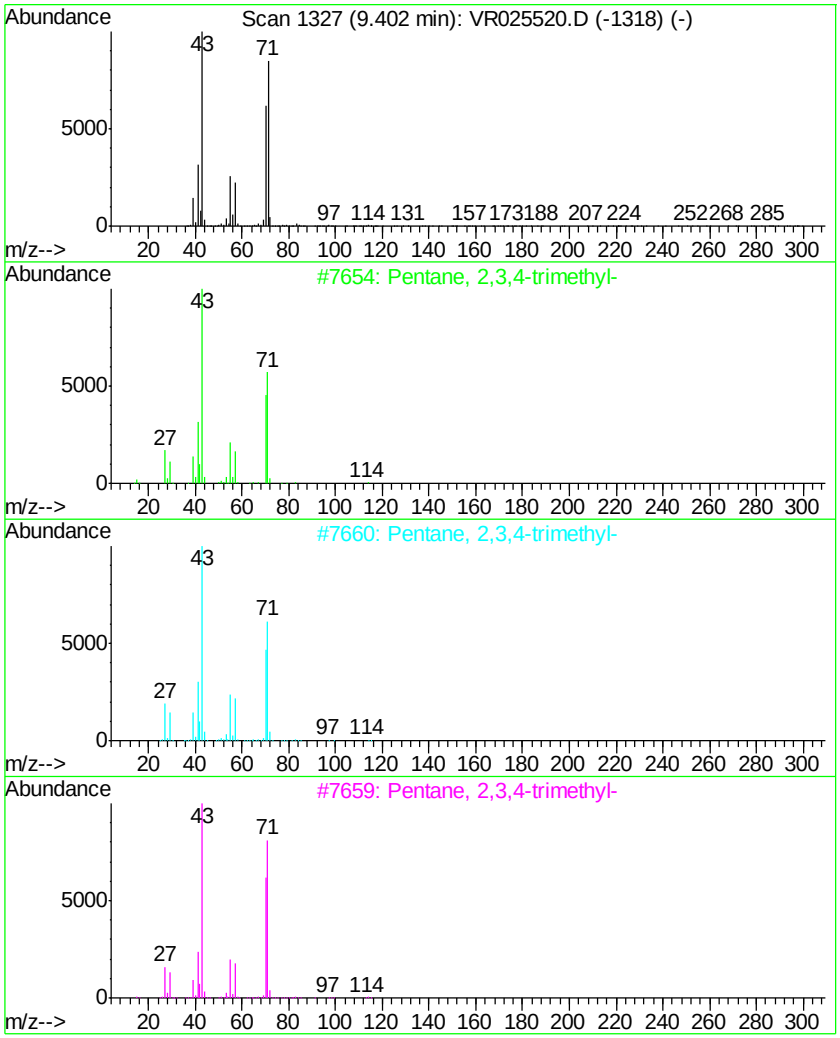
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

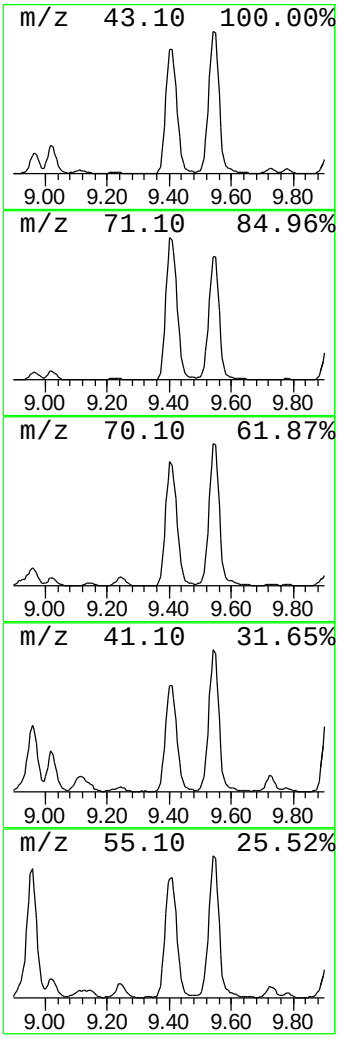
****

Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	23.68 ug/L	8276200	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	91
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
5	Pentane, 3-ethyl-	100	C7H16	000617-78-7	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

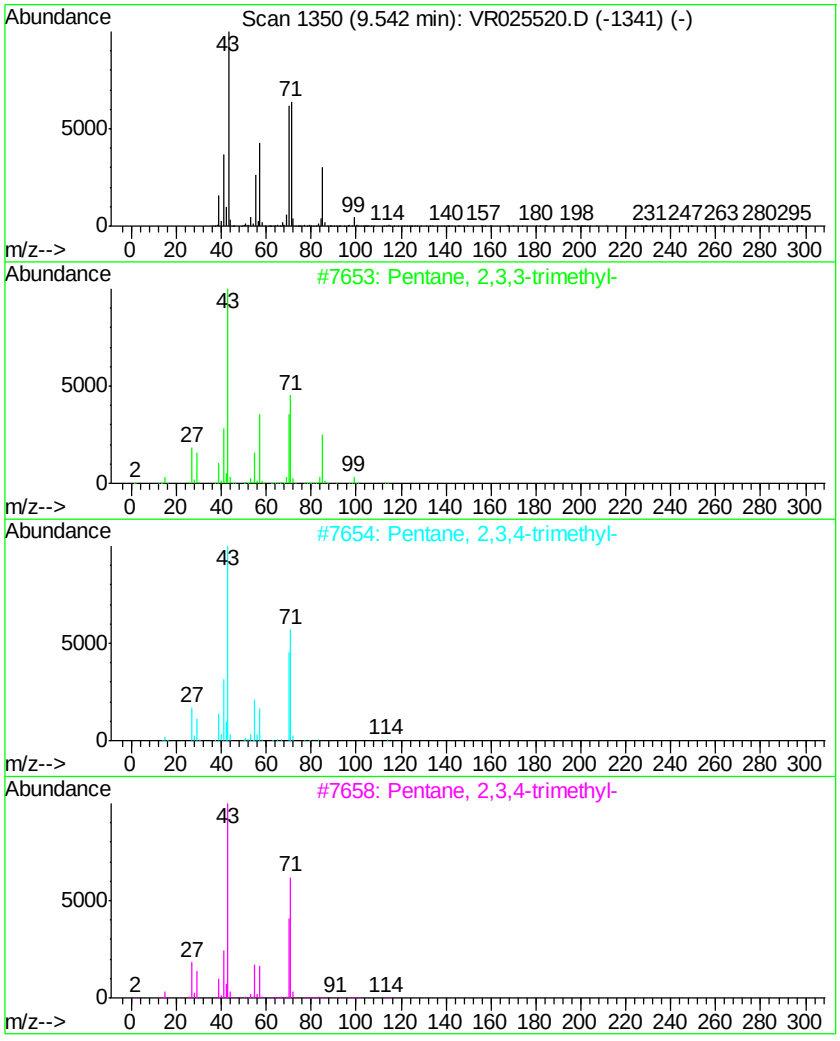
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

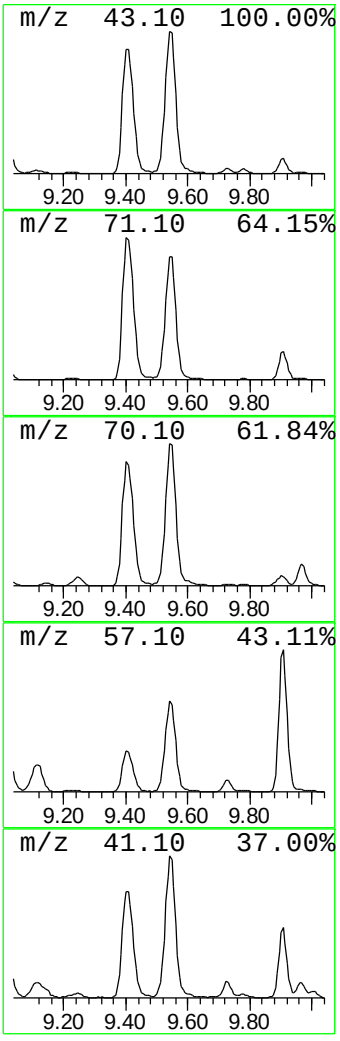
****

Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.54	28.80 ug/L	10065400	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	83
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	81
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

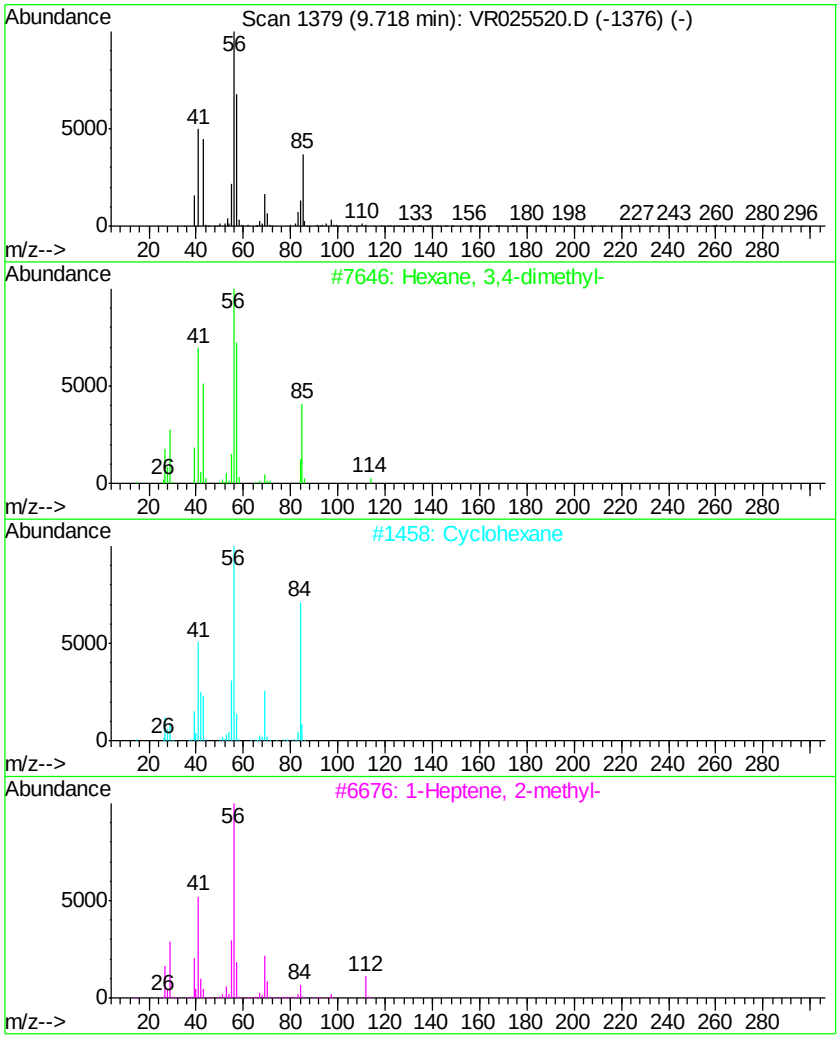
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

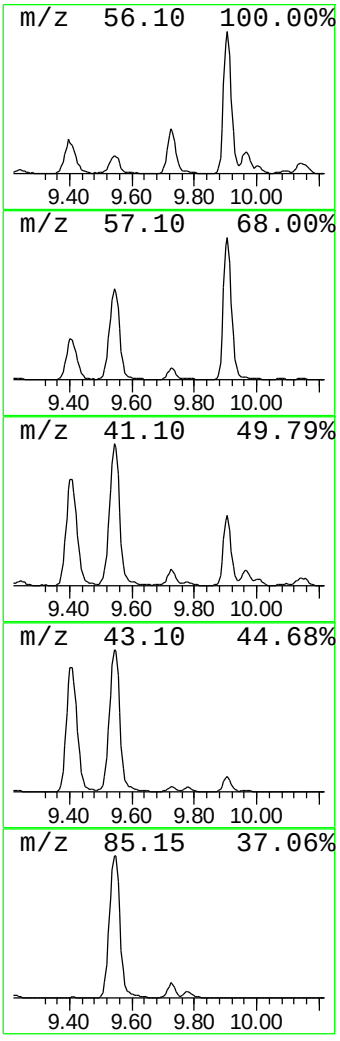
****

Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.72	1.91 ug/L	669041	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	56
2	Cyclohexane	84	C6H12	000110-82-7	50
3	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	47
4	1-Heptene, 2-methyl-	112	C8H16	015870-10-7	47
5	Cyclohexane	84	C6H12	000110-82-7	47





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

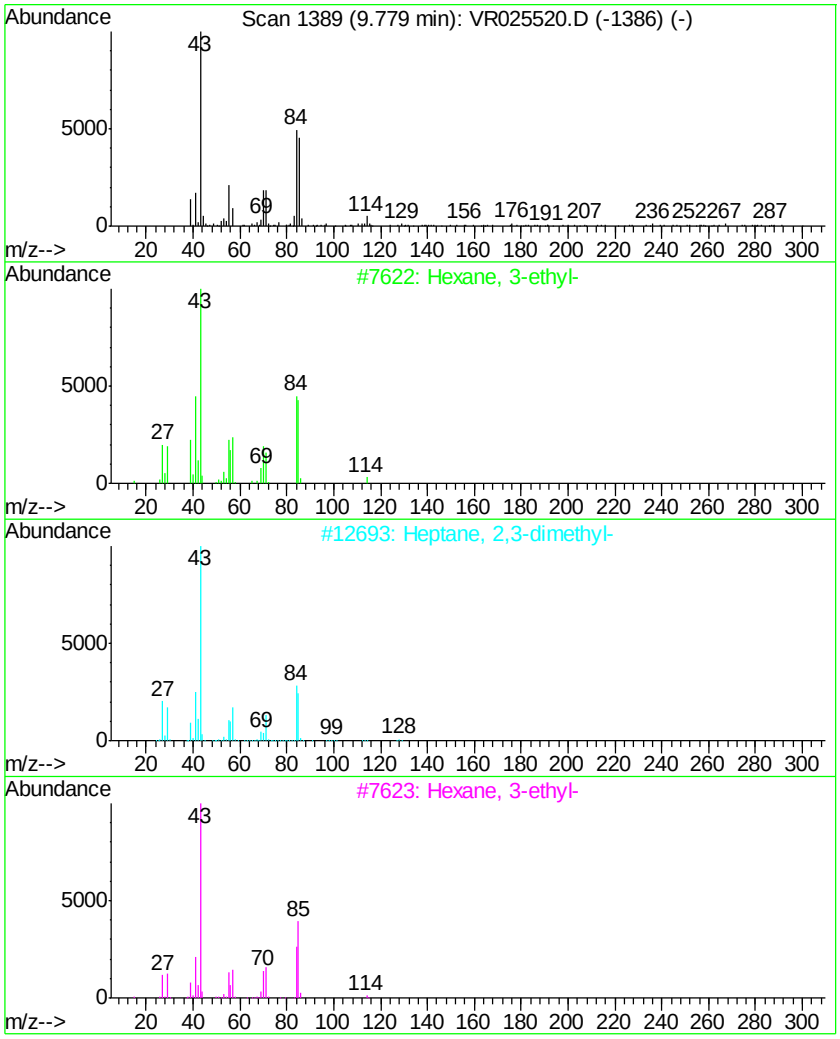
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

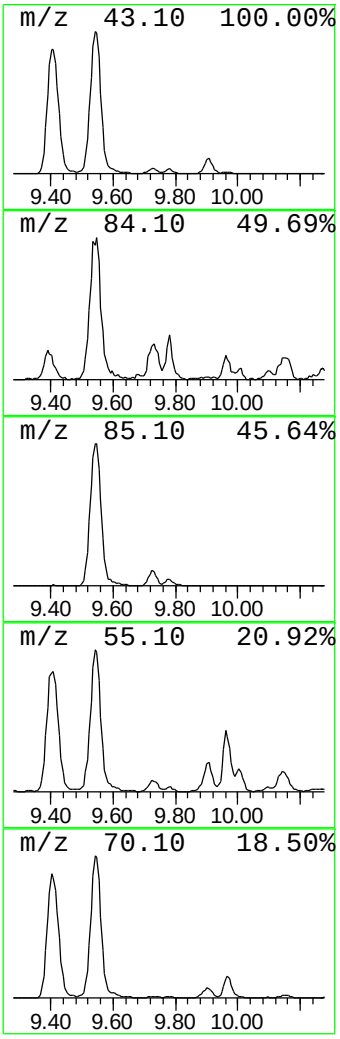
****

Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.78	0.61 ug/L	214594	1,4-Difluorobenzene	8.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-ethyl-	114	C8H18	000619-99-8	83
2	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	59
3	Hexane, 3-ethyl-	114	C8H18	000619-99-8	50
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
5	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	45





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

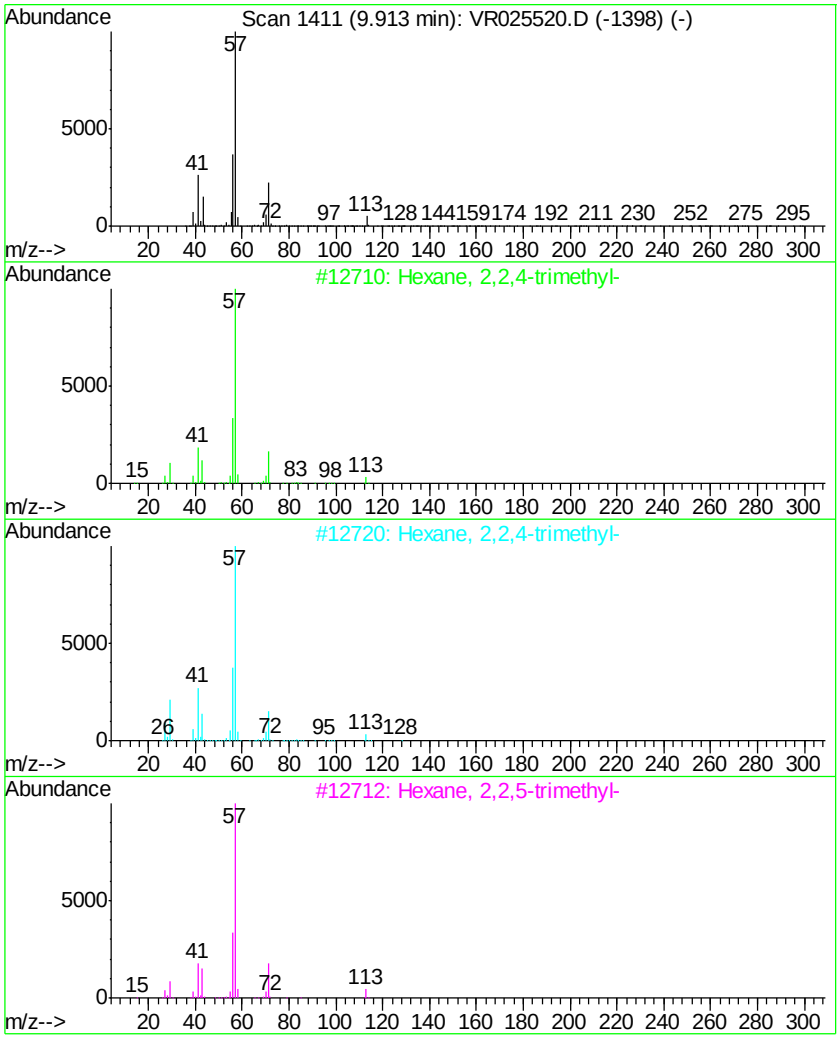
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

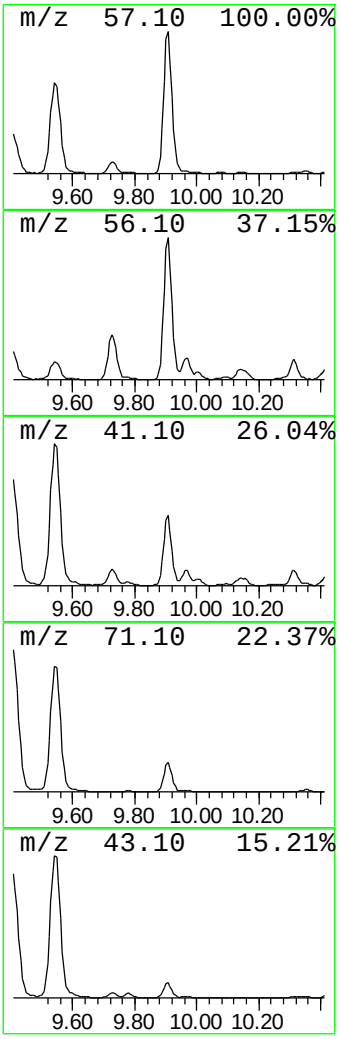
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.91	6.54 ug/L	3048000	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
2	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	83
3	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	83
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	78
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

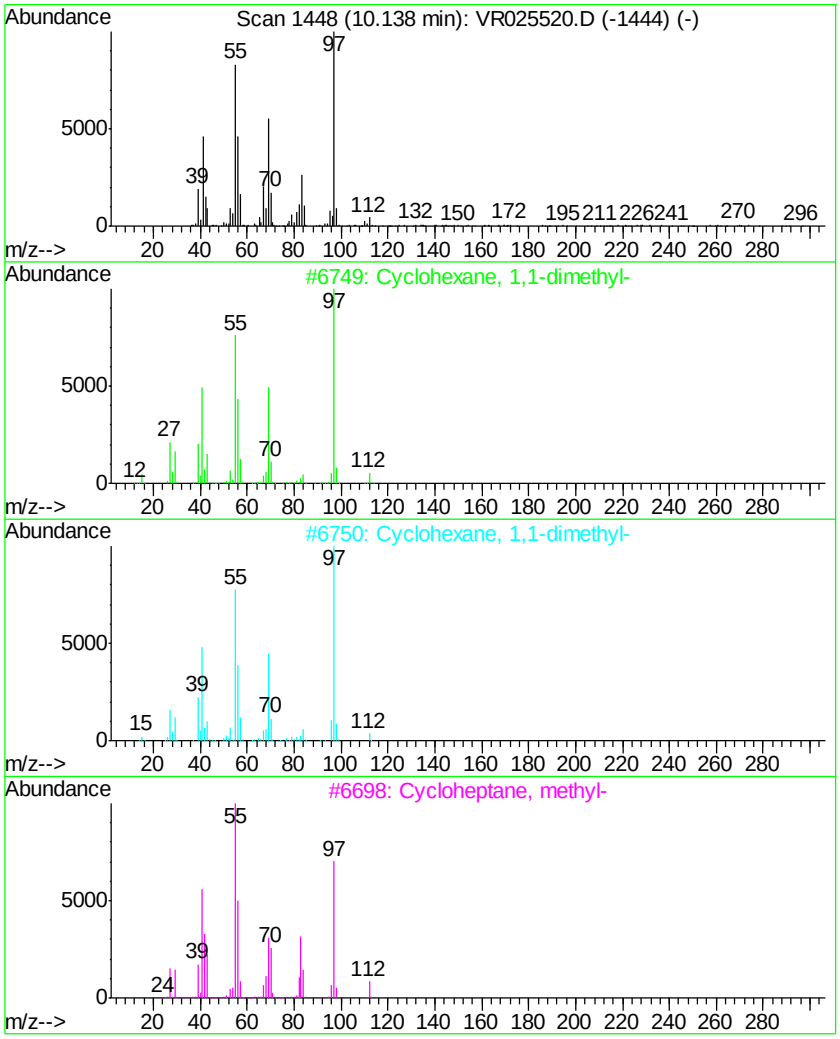
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

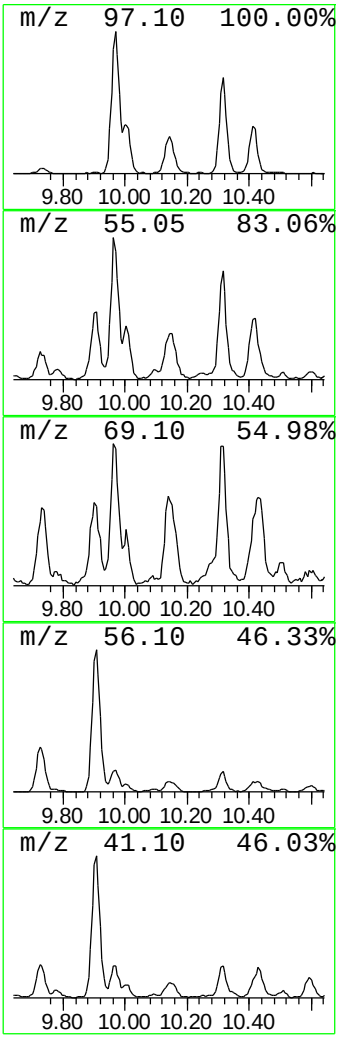
****

Peak Number 19 (DEL) Alkane: Cyclic10.14 Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.14	1.20 ug/L	557680	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	81
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	76
3	Cycloheptane, methyl-	112	C8H16	004126-78-7	76
4	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	74
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

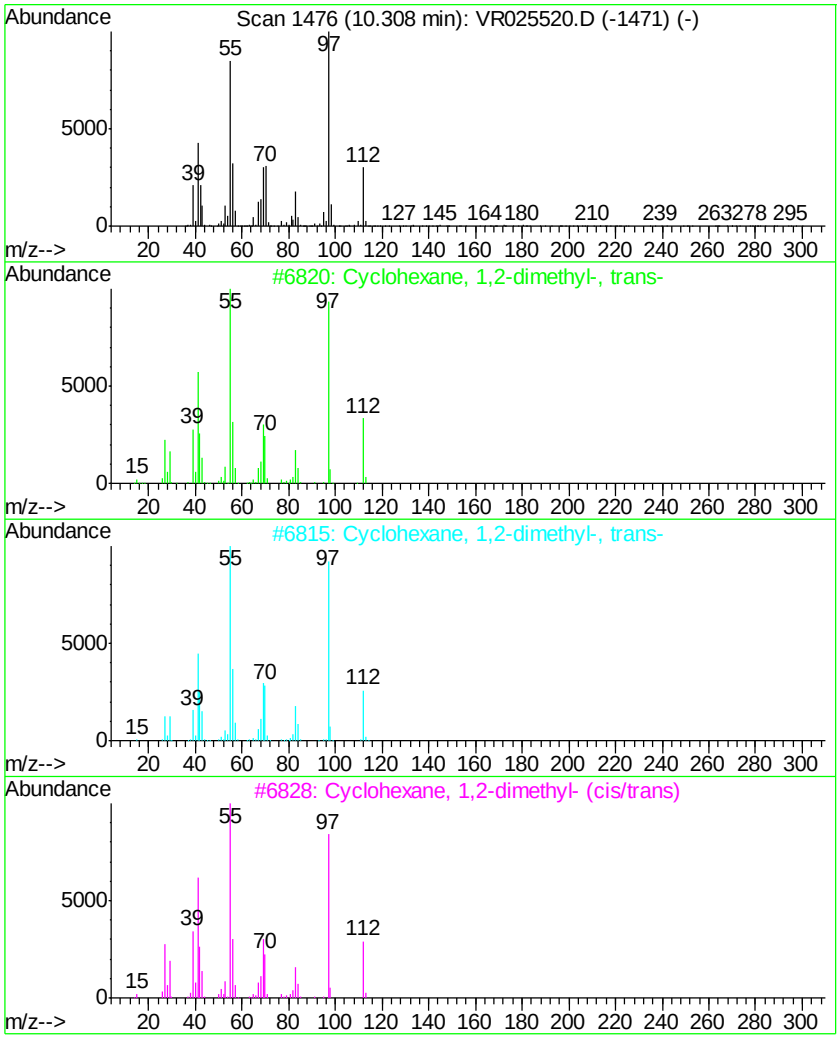
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

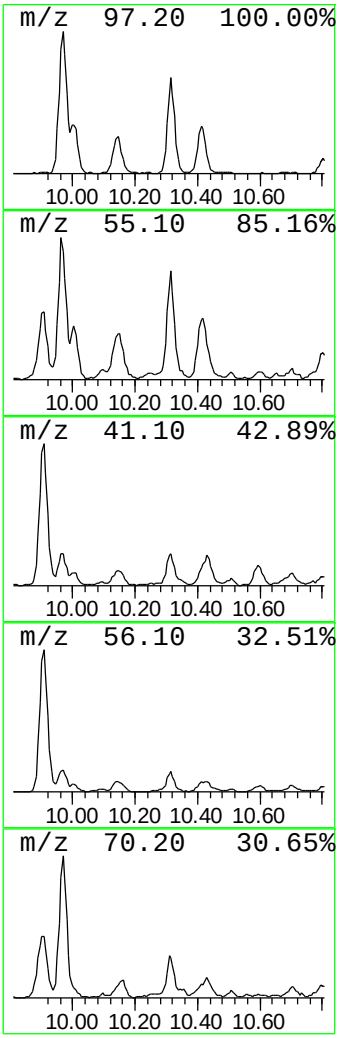
****

Peak Number 20 (DEL) Alkane: Cyclic10.31 Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.31	1.98 ug/L	923985	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	96
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	93
4	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

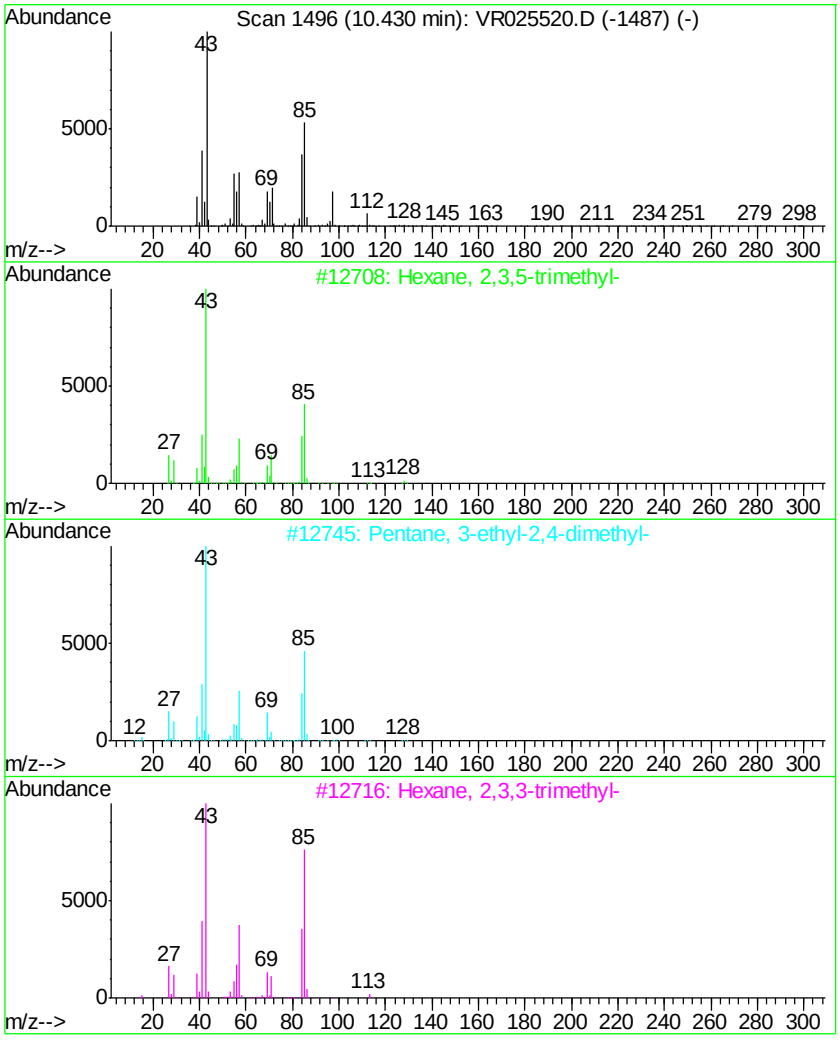
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

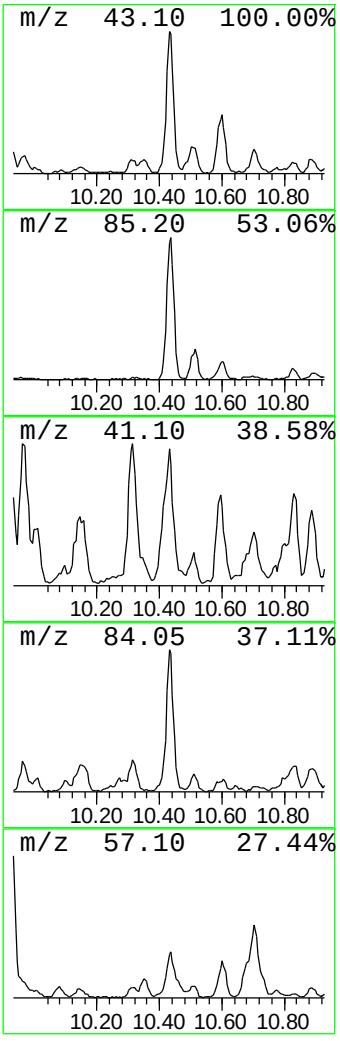
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.43	2.13 ug/L	993073	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	80
2	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	59
3	Hexane, 2,3,3-trimethyl-	128	C9H20	016747-28-7	53
4	Hexane, 2,3,5-trimethyl-	128	C9H20	001069-53-0	53
5	Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

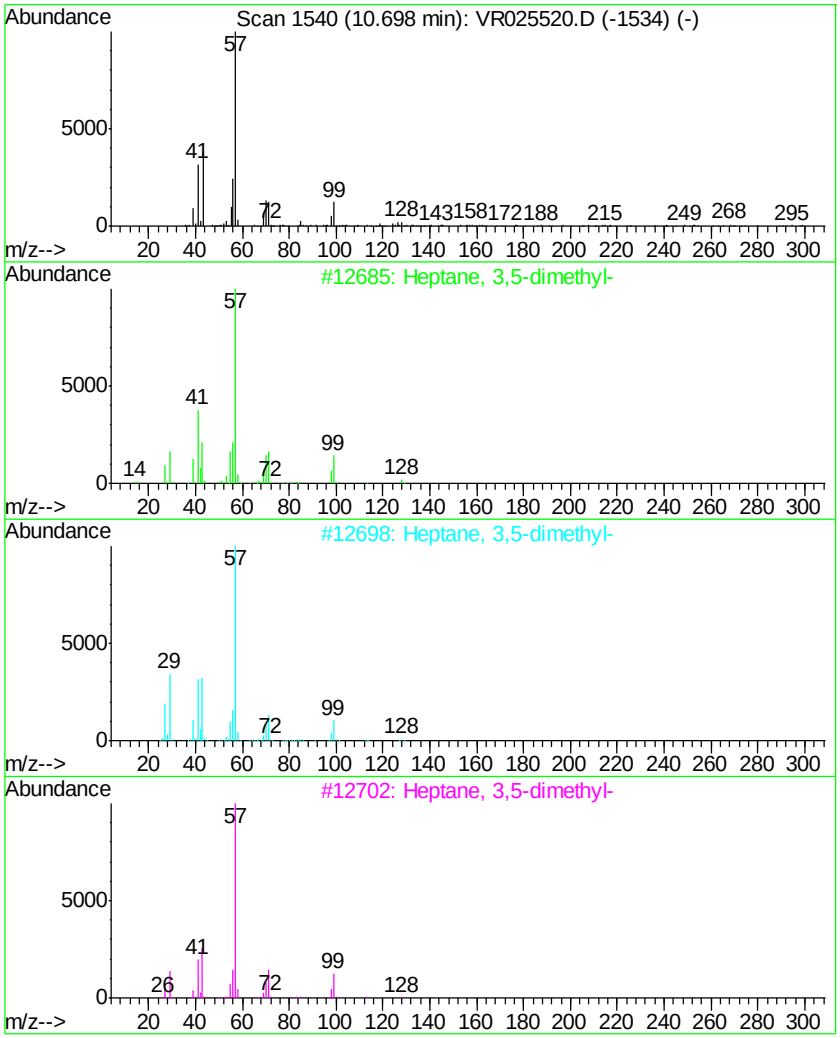
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

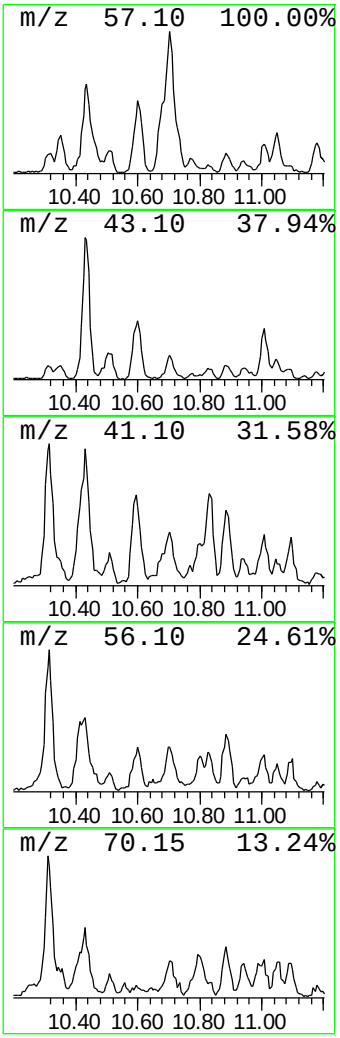
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.70	0.62 ug/L	289991	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	87
2	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	83
3	Heptane, 3,5-dimethyl-	128	C9H20	000926-82-9	83
4	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	74
5	Heptane, 2,5-dimethyl-	128	C9H20	002216-30-0	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

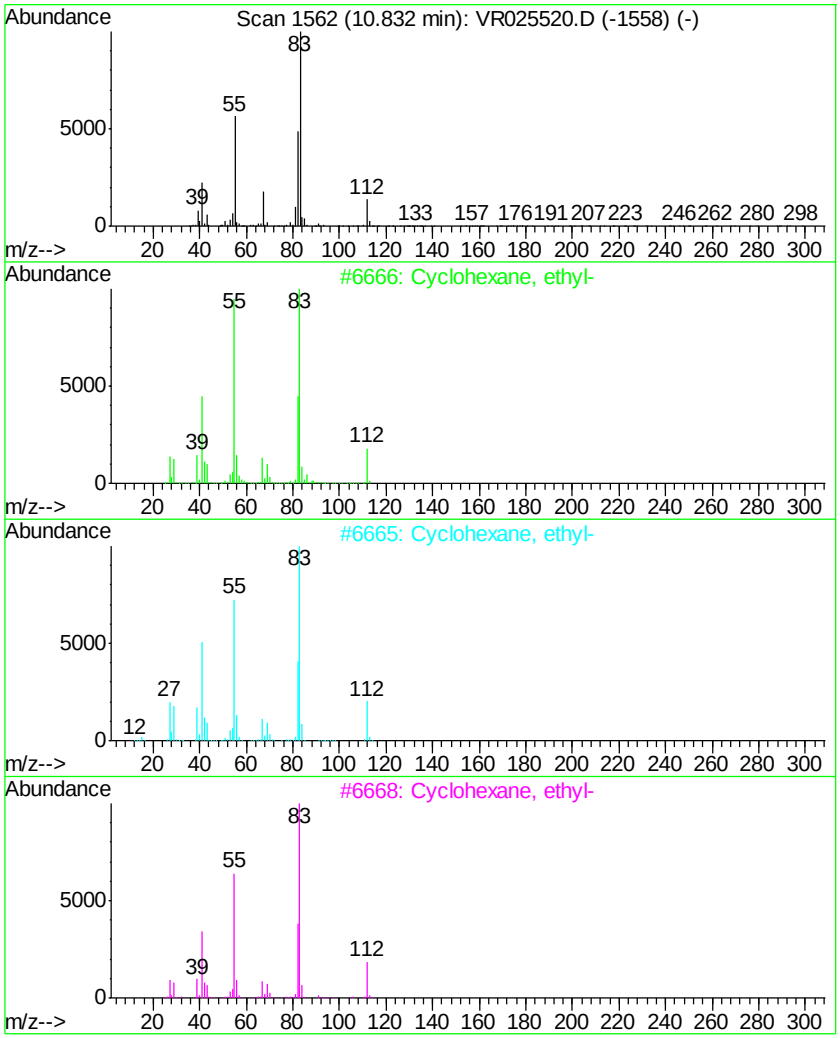
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

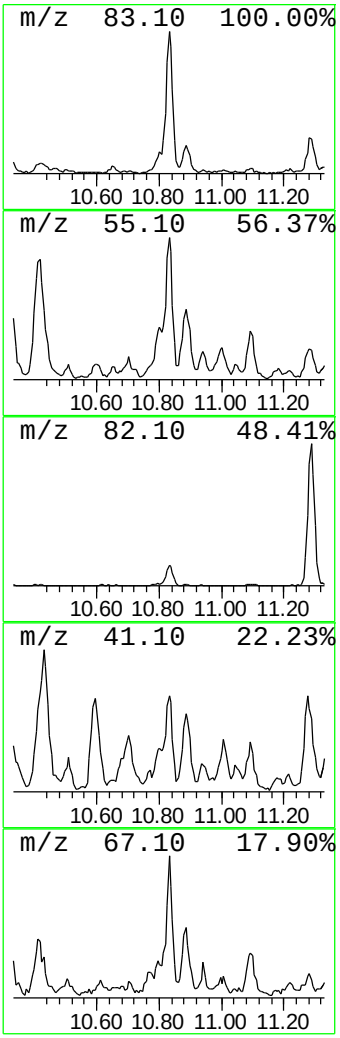
****

Peak Number 23 (DEL) Alkane: Cyclic10.83 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.83	0.97 ug/L	451362	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, ethyl-	112	C8H16	001678-91-7	72
2	Cyclohexane, ethyl-	112	C8H16	001678-91-7	72
3	Cyclohexane, ethyl-	112	C8H16	001678-91-7	72
4	Cyclopentane, 1-ethyl-3-methyl-	112	C8H16	003726-47-4	64
5	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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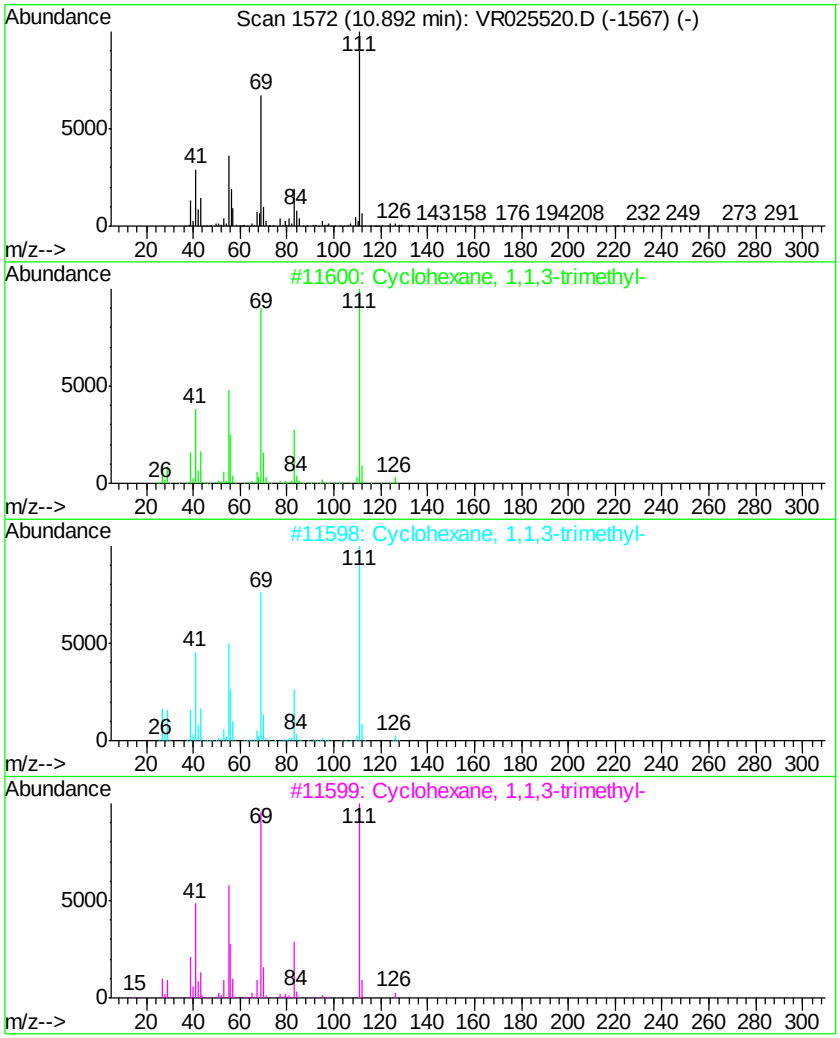
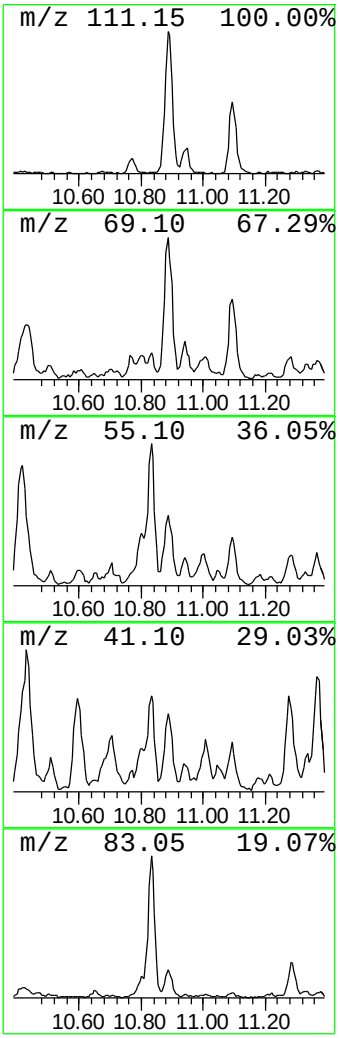
Peak Number 24 (DEL) Alkane: Cyclic10.89 Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	0.88 ug/L	409630	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	83
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	78
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	78
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	72
5	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

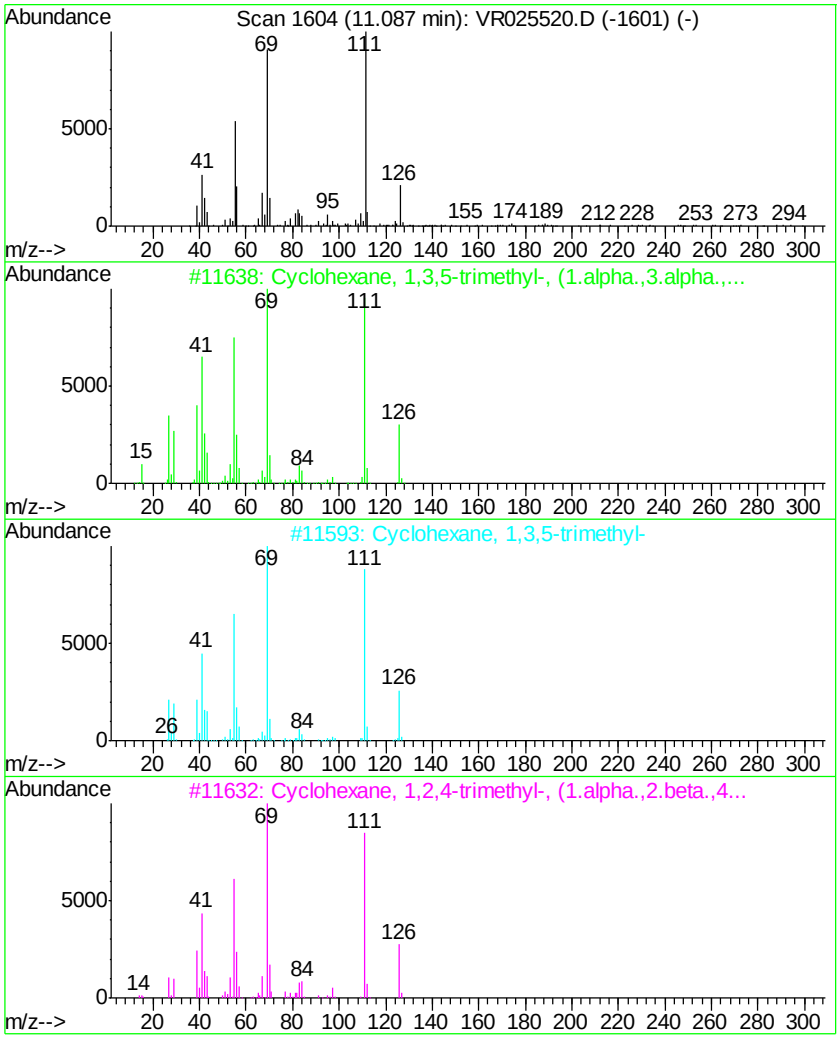
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

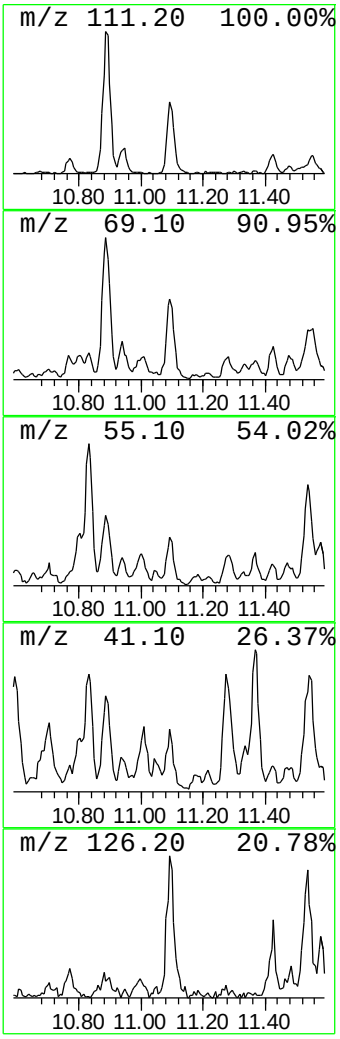
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 (DEL) Alkane: Cyclic11.09 Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	0.63 ug/L	292676	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-26-2	90
2	Cyclohexane, 1,3,5-trimethyl-	126	C9H18	001839-63-0	90
3	Cyclohexane, 1,2,4-trimethyl-, (...	126	C9H18	007667-60-9	90
4	2-Pyrazoline, 1-isopropyl-5-methyl-	126	C7H14N2	026964-54-5	80
5	Cyclooctane, (1-methylpropyl)-	168	C12H24	016538-89-9	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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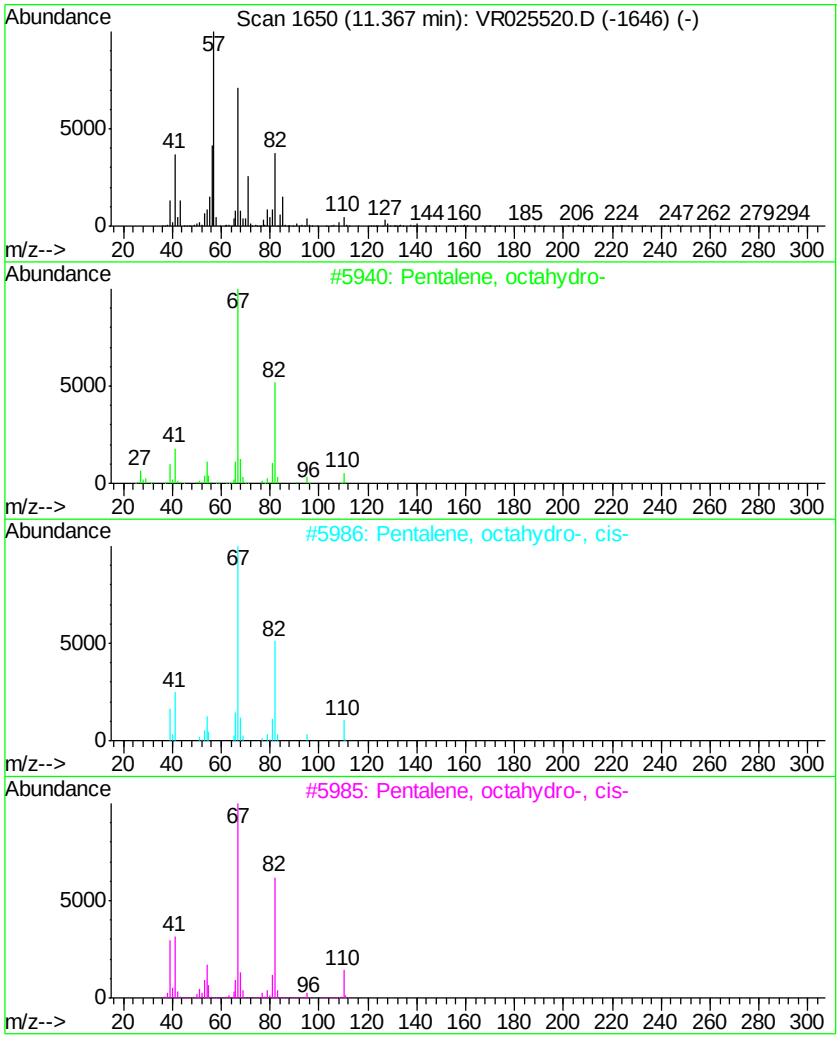
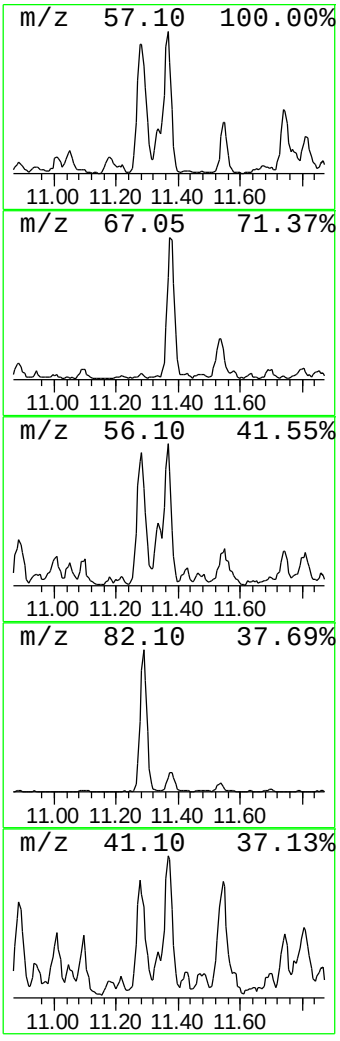
Peak Number 26 Pentalene, octahydro- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	1.38 ug/L	643344	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentalene, octahydro-	110	C8H14	000694-72-4	70
2	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	58
3	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	58
4	Pentalene, octahydro-, cis-	110	C8H14	001755-05-1	53
5	trans-3-Hexen-1-ol, pentafluorop...	246	C9H11F5O2	1000352-30-9	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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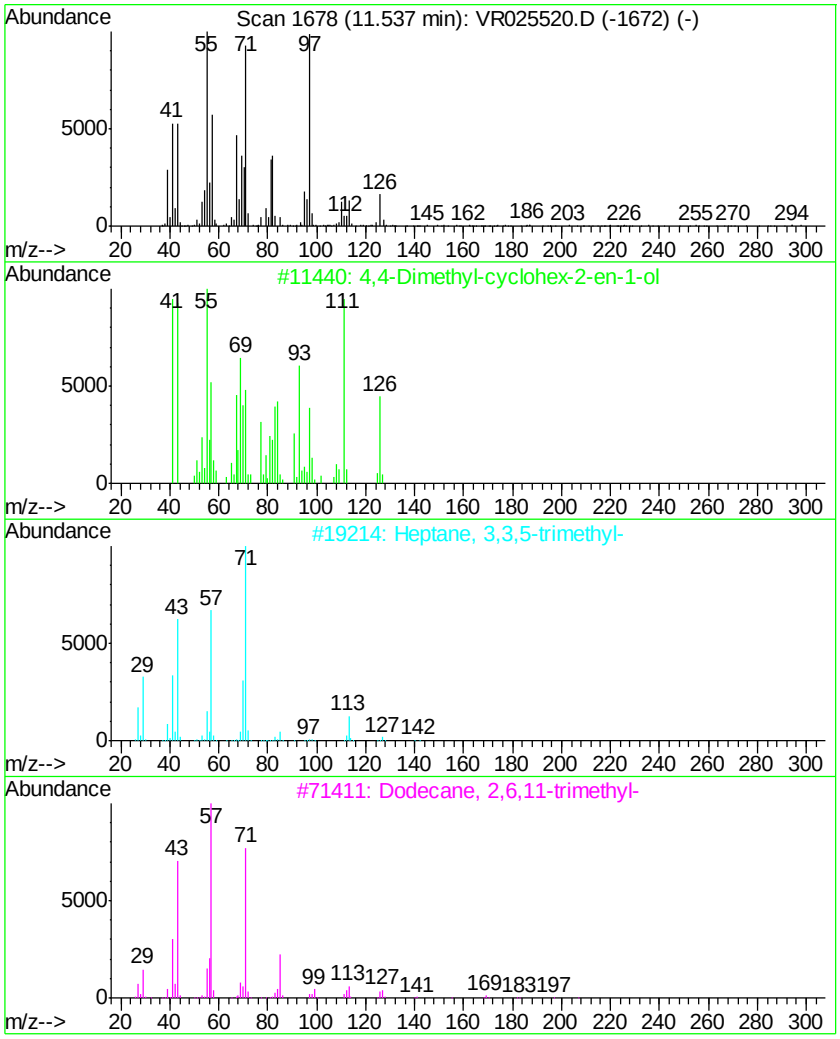
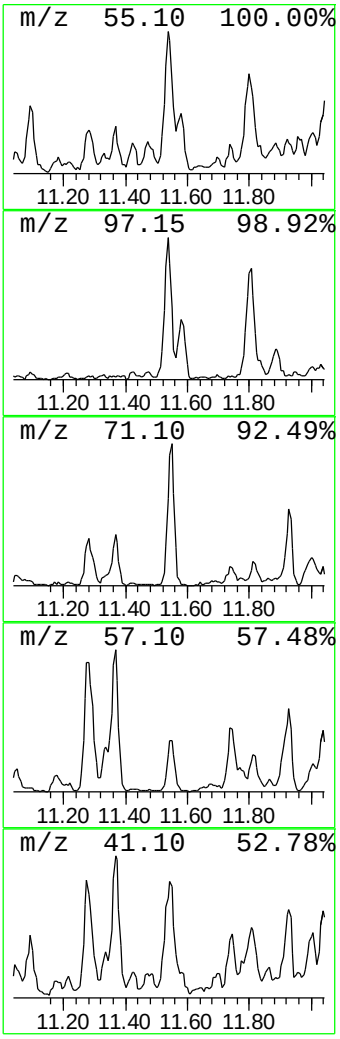
Peak Number 27 unknown-01 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.54	1.52 ug/L	707584	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4-Dimethyl-cyclohex-2-en-1-ol	126	C8H14O	1000143-72-5	46
2	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	43
3	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	43
4	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	43
5	3-Octen-2-ol	128	C8H16O	076649-14-4	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

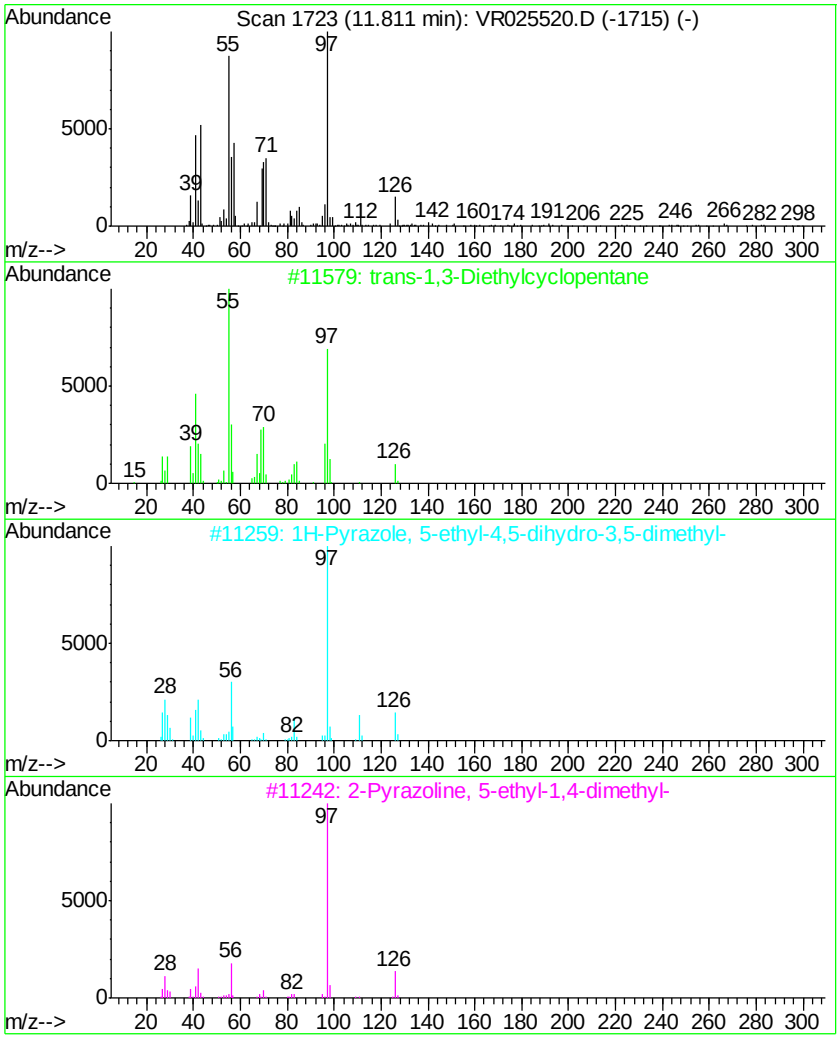
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

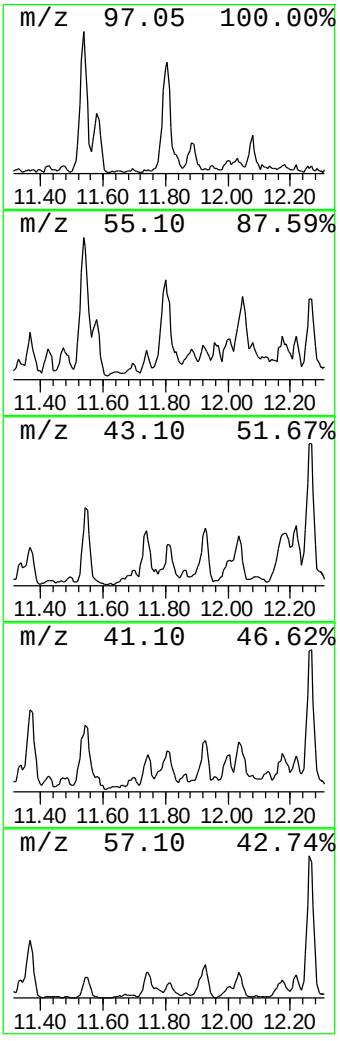
****

Peak Number 28 (DEL) Alkane: Cyclic11.81 Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	0.74 ug/L	342612	Chlorobenzene-d5	11.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-1,3-Diethylcyclopentane	126	C9H18	1000113-87-1	64
2	1H-Pyrazole, 5-ethyl-4,5-dihydro...	126	C7H14N2	021981-22-6	59
3	2-Pyrazoline, 5-ethyl-1,4-dimethyl-	126	C7H14N2	014339-23-2	59
4	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-78-8	52
5	Sulfurous acid, cyclohexylmethyl...	360	C20H40O3S	1000309-22-1	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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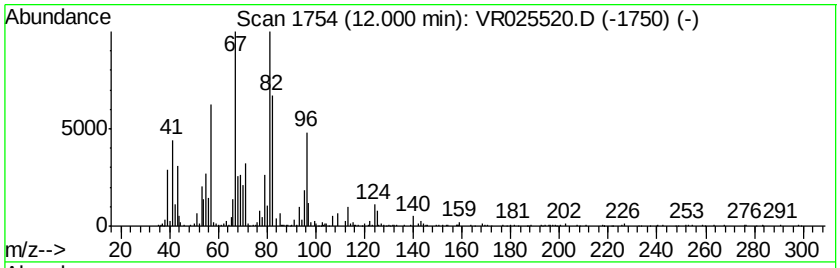
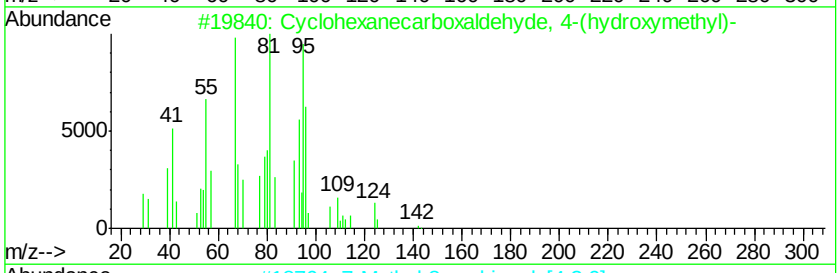
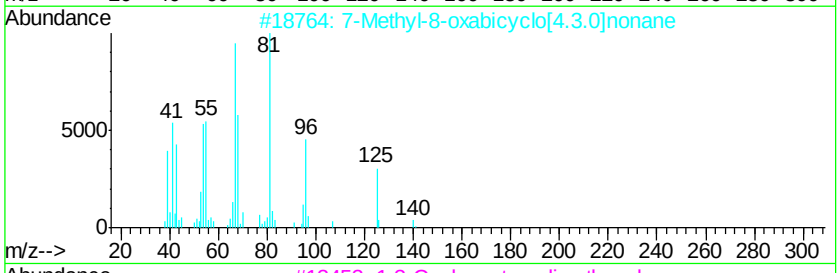
Peak Number 29 Cyclohexanecarboxaldehyde, ... Concentration Rank 65

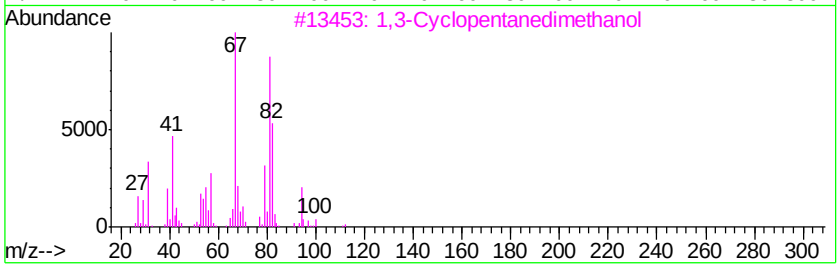
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	0.57 ug/L	263557	Chlorobenzene-d5	11.29

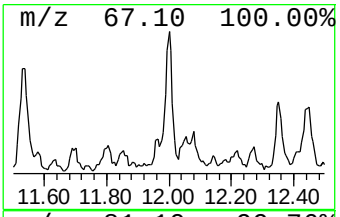
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexanecarboxaldehyde, 4-(hy...	142	C8H14O2	092385-32-5	64
2	7-Methyl-8-oxabicyclo[4.3.0]nonane	140	C9H16O	1000216-87-6	62
3	1,3-Cyclopentanedimethanol	130	C7H14O2	034957-72-7	59
4	1H-Indene, octahydro-, trans-	124	C9H16	003296-50-2	49
5	Cyclohexene,3-propyl-	124	C9H16	003983-06-0	46

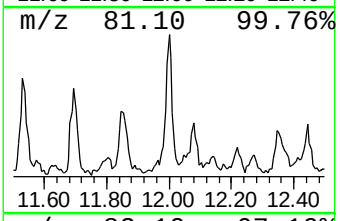


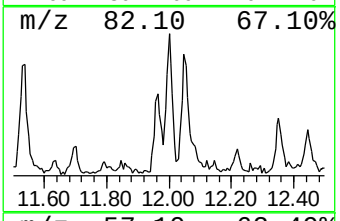


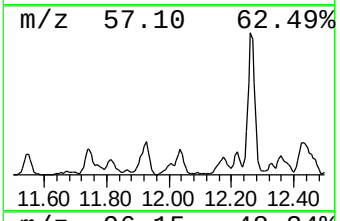


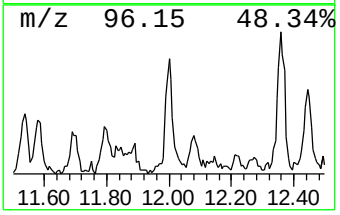












Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

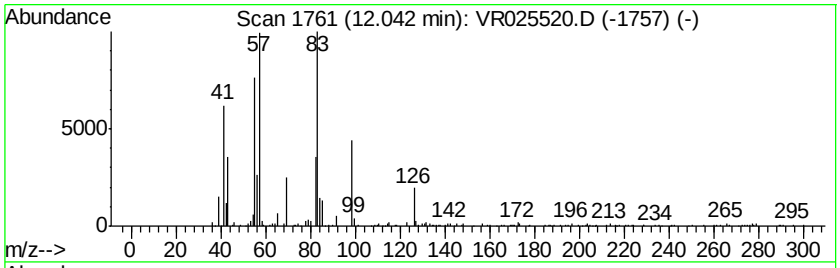
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

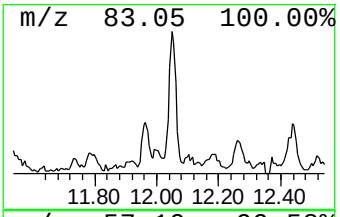
****

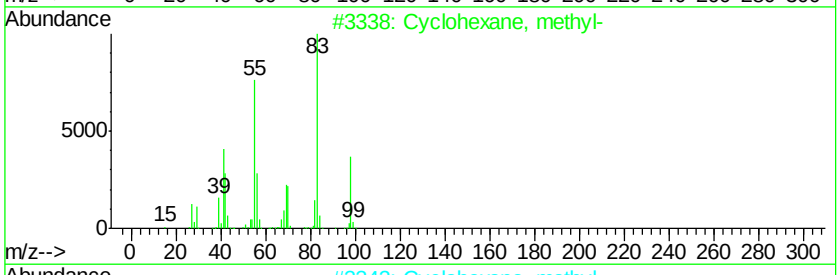
Peak Number 30 (DEL) Alkane: Cyclic12.04 Concentration Rank 66

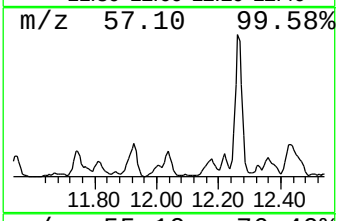
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	0.52 ug/L	241342	Chlorobenzene-d5	11.29

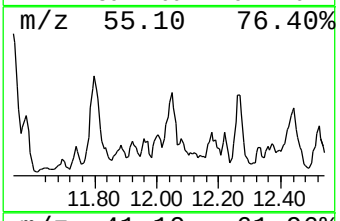
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	59
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	59
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	53
4	Ethanone, 1-(1-methylcyclopentyl)-	126	C8H14O	013388-93-7	52
5	2-Pentene, 4,4-dimethyl-	98	C7H14	026232-98-4	52

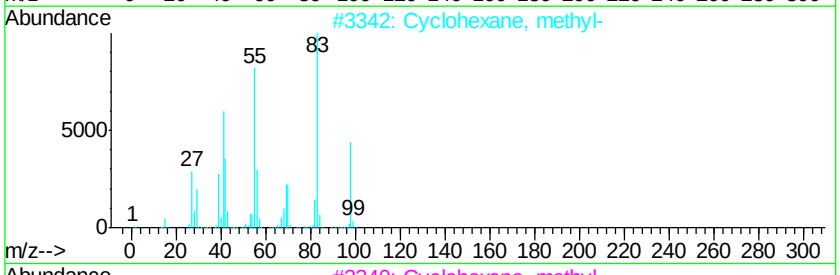


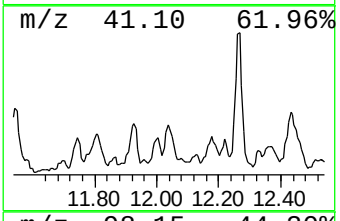


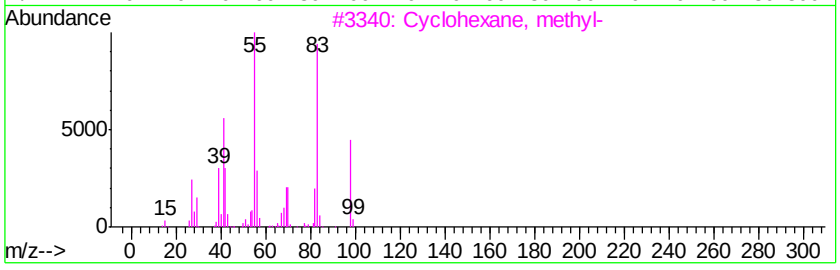


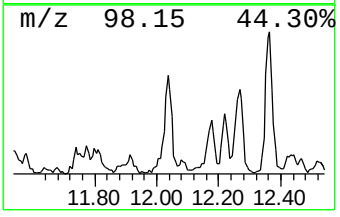












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

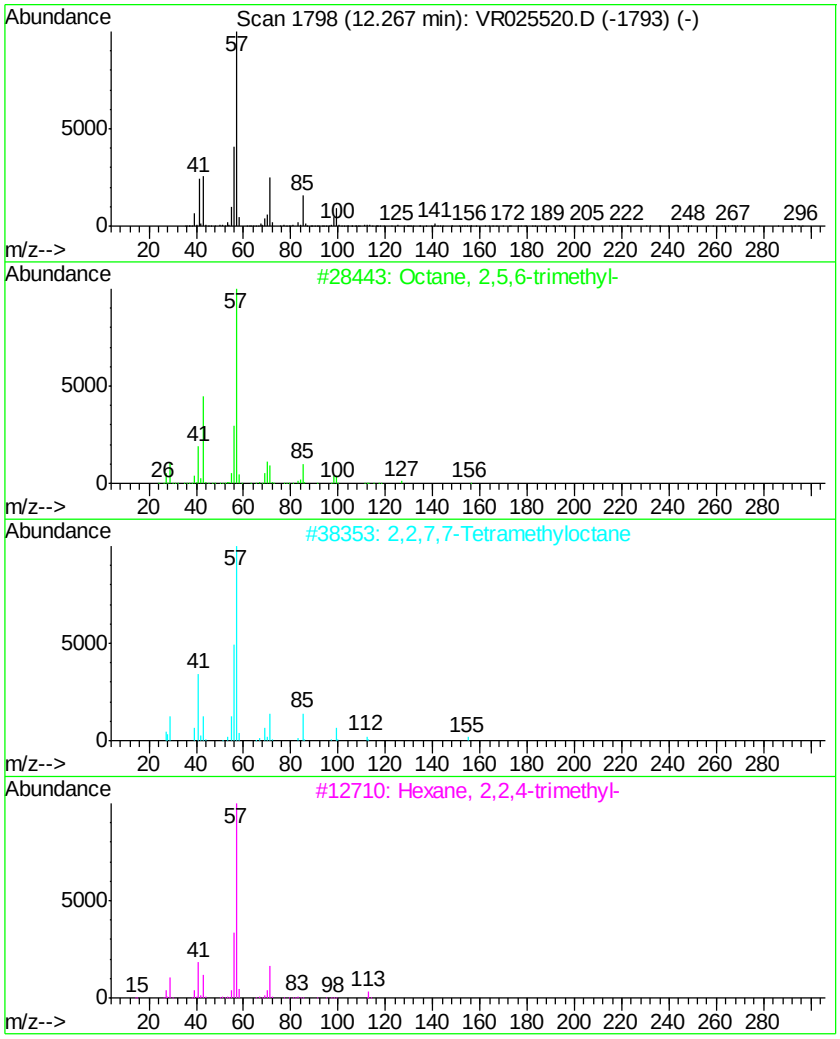
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

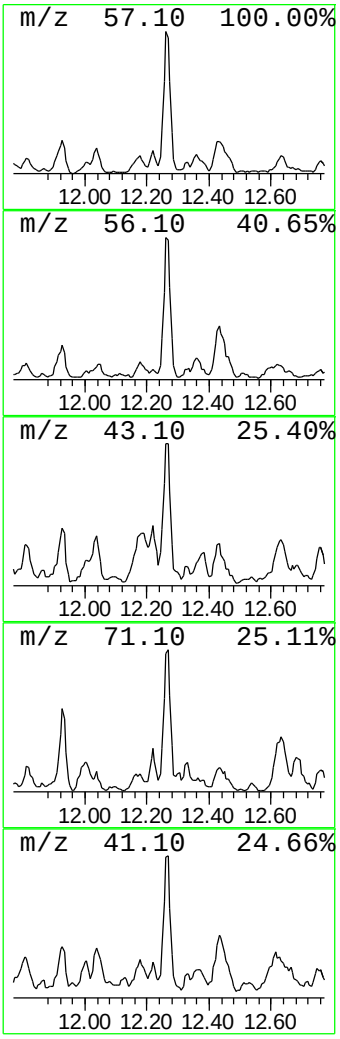
****

Peak Number 31 (DEL) Alkane: Straight-Chai... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	2.76 ug/L	905849	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,5,6-trimethyl-	156	C11H24	062016-14-2	64
2	2,2,7,7-Tetramethyloctane	170	C12H26	001071-31-4	59
3	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	53
4	Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	53
5	Heptane, 2,2,4-trimethyl-	142	C10H22	014720-74-2	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

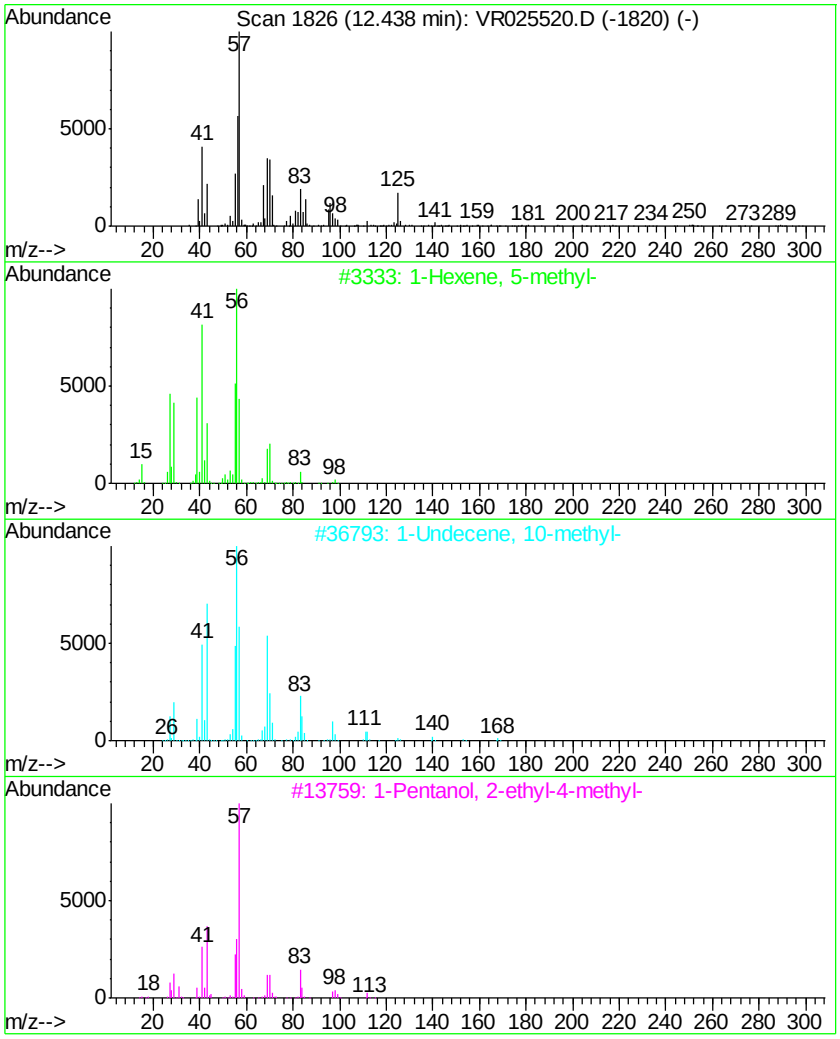
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

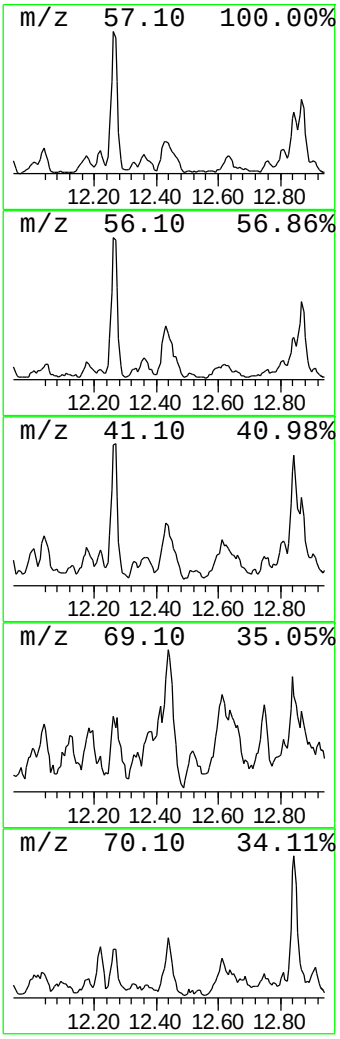
****

Peak Number 32 (DEL) Alkane: Cyclic12.44 Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	1.52 ug/L	498477	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexene, 5-methyl-	98	C7H14	003524-73-0	43
2	1-Undecene, 10-methyl-	168	C12H24	022370-55-4	38
3	1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	38
4	2,2-Dimethyleicosane	310	C22H46	1000360-43-4	38
5	3-Undecene, 7-methyl-, (E)-	168	C12H24	074630-53-8	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

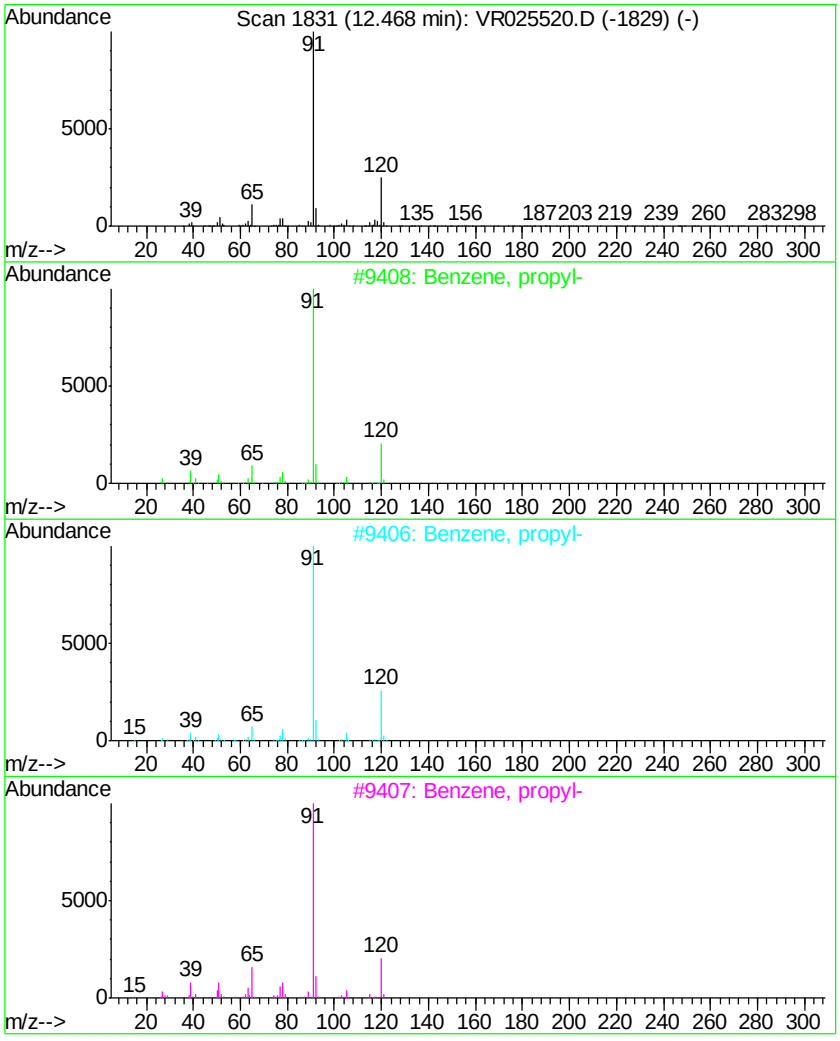
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

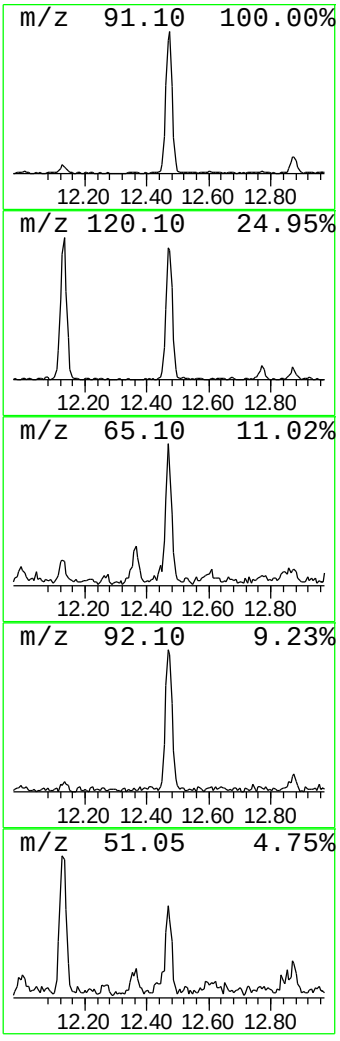
****

Peak Number 33 Benzene, propyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	1.28 ug/L	419873	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	87
2	Benzene, propyl-	120	C9H12	000103-65-1	80
3	Benzene, propyl-	120	C9H12	000103-65-1	80
4	1-Benzylamino-2-benzyloxyethane	241	C16H19NO	038336-06-0	64
5	1,2-Ethanediamine, N-(phenylmeth...	150	C9H14N2	004152-09-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

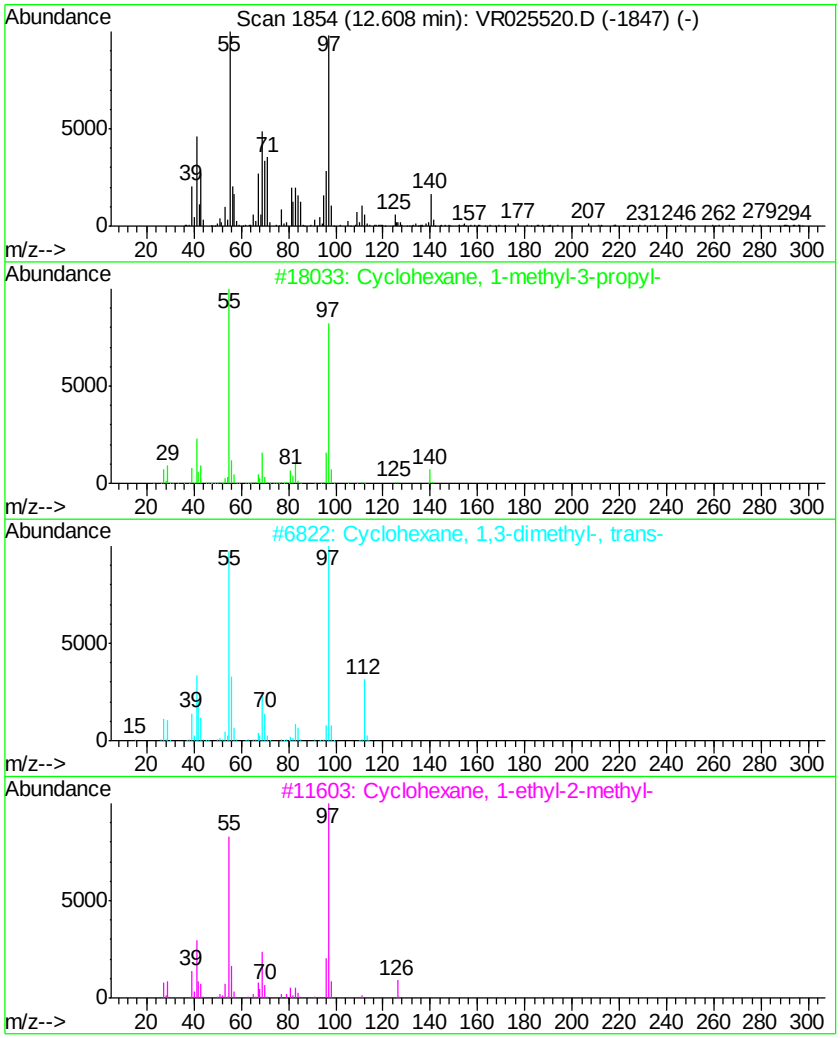
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

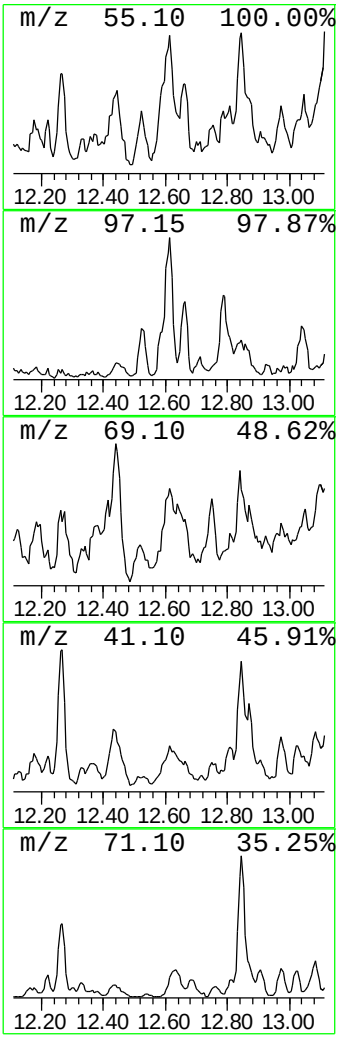
****

Peak Number 34 (DEL) Alkane: Cyclic12.61 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	1.94 ug/L	636809	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-3-propyl-	140	C10H20	004291-80-9	43
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	43
3	Cyclohexane, 1-ethyl-2-methyl-	126	C9H18	003728-54-9	43
4	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	43
5	3-Dodecylcyclohexanone	266	C18H34O	138695-42-8	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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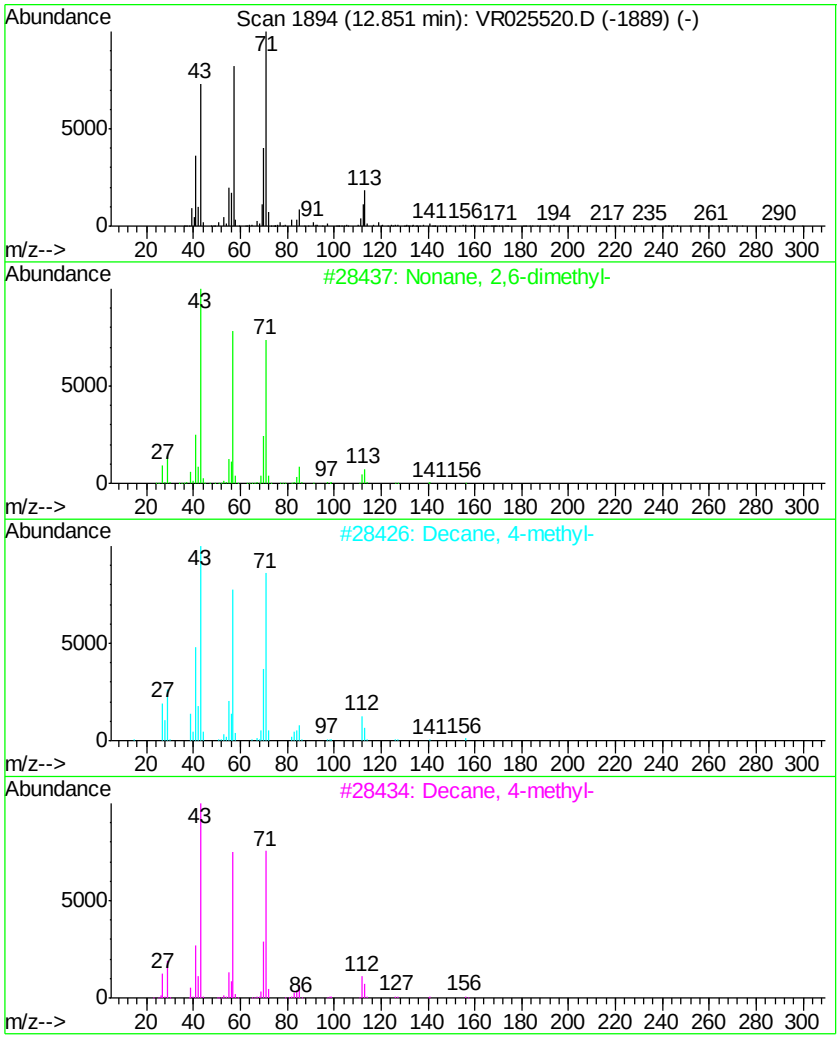
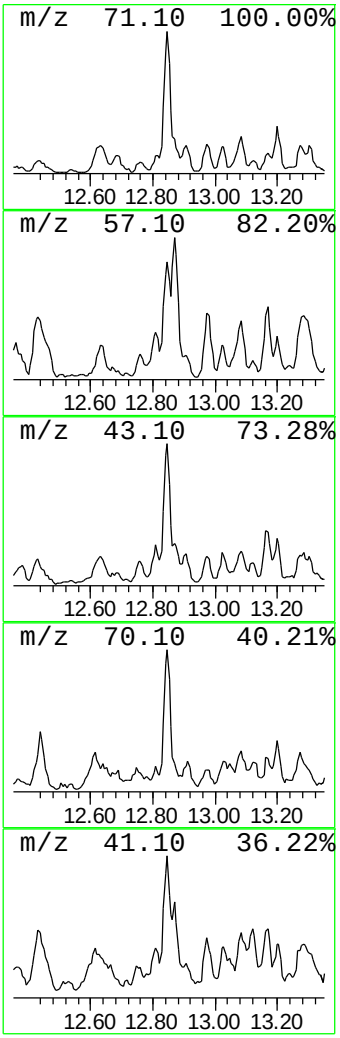
Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.85	2.65 ug/L	870204	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	87
2	Decane, 4-methyl-	156	C11H24	002847-72-5	86
3	Decane, 4-methyl-	156	C11H24	002847-72-5	83
4	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	78
5	Heptane, 3,3,5-trimethyl-	142	C10H22	007154-80-5	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

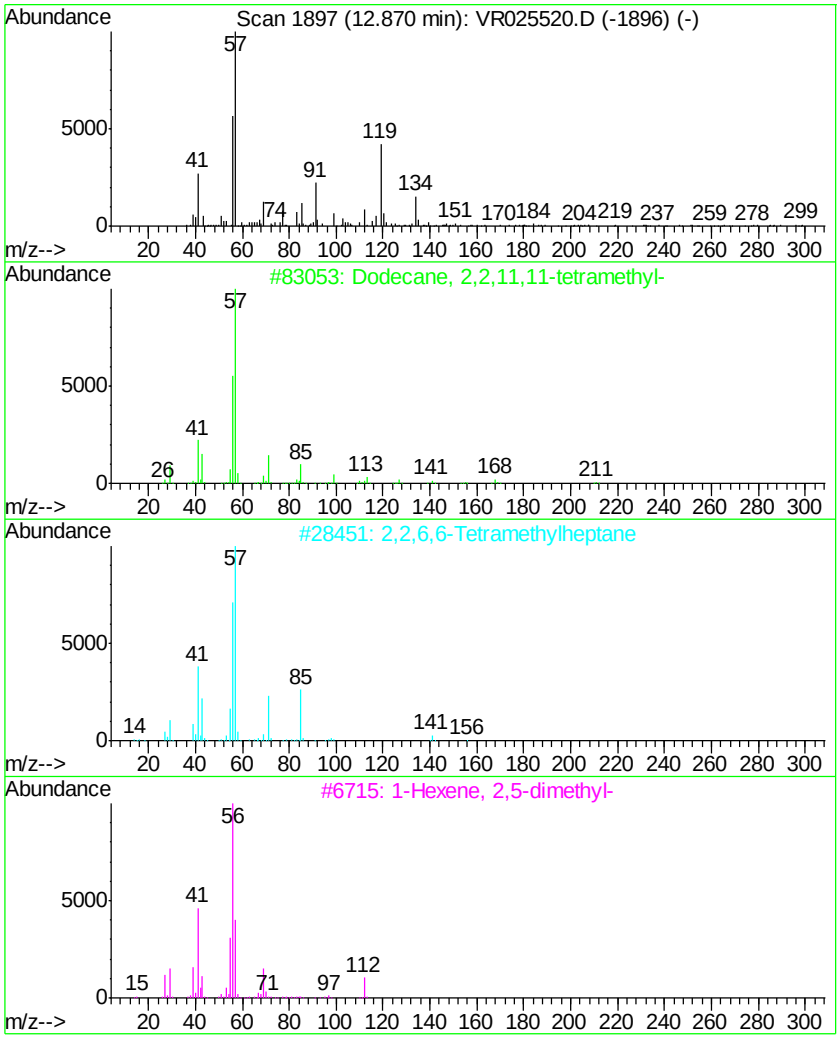
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

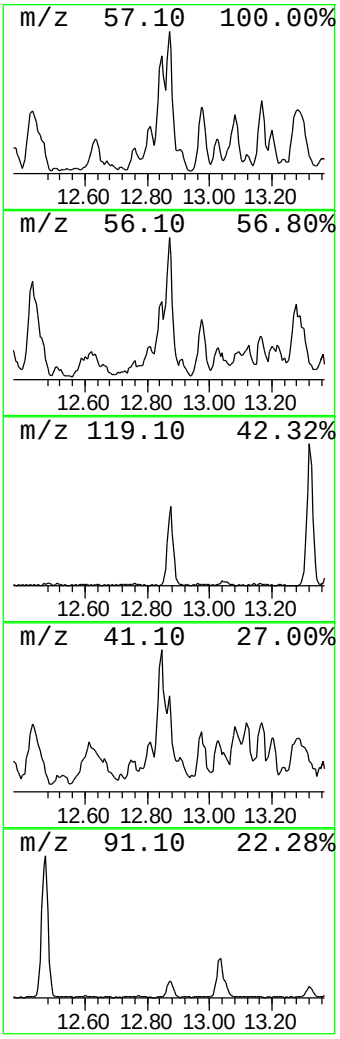
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 36 (DEL) Alkane: Straight-Chai... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.87	0.99 ug/L	326285	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	38
2	2,2,6,6-Tetramethylheptane	156	C11H24	040117-45-1	32
3	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	25
4	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	23
5	Octane, 2,2-dimethyl-	142	C10H22	015869-87-1	23





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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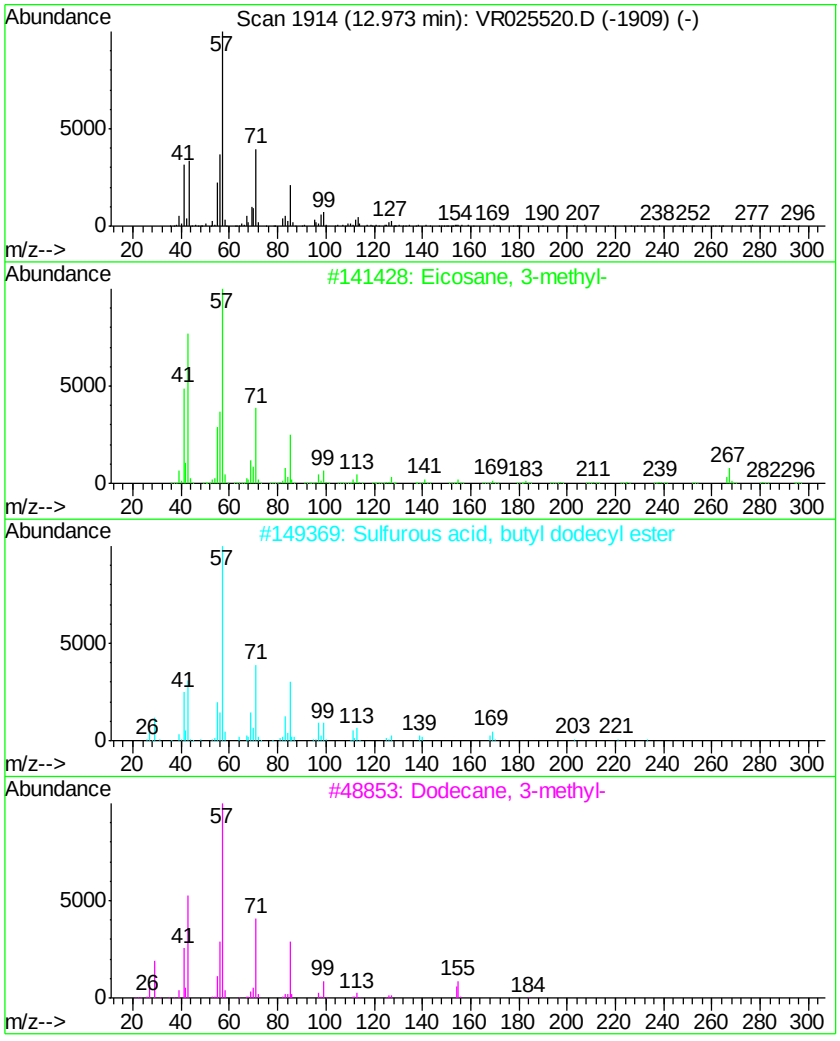
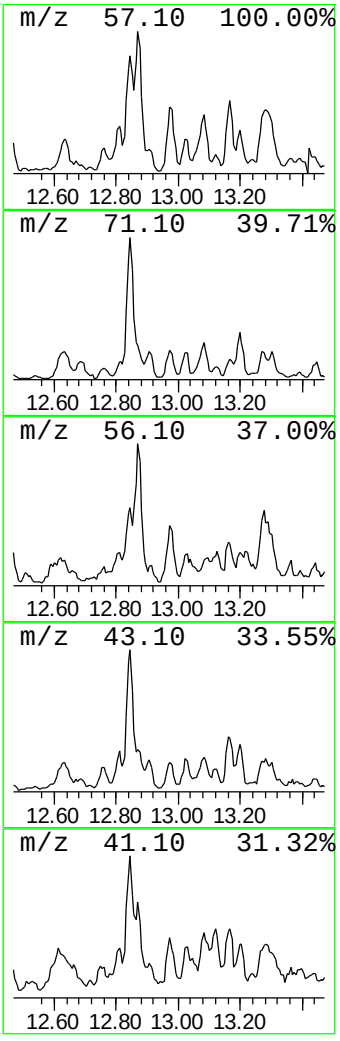
Peak Number 37 (DEL) Alkane: Straight-Chai... Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.97	0.95 ug/L	310906	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 3-methyl-	296	C21H44	006418-46-8	87
2	Sulfurous acid, butyl dodecyl ester	306	C16H34O3S	1000309-17-9	64
3	Dodecane, 3-methyl-	184	C13H28	017312-57-1	64
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	64
5	Hexadecane	226	C16H34	000544-76-3	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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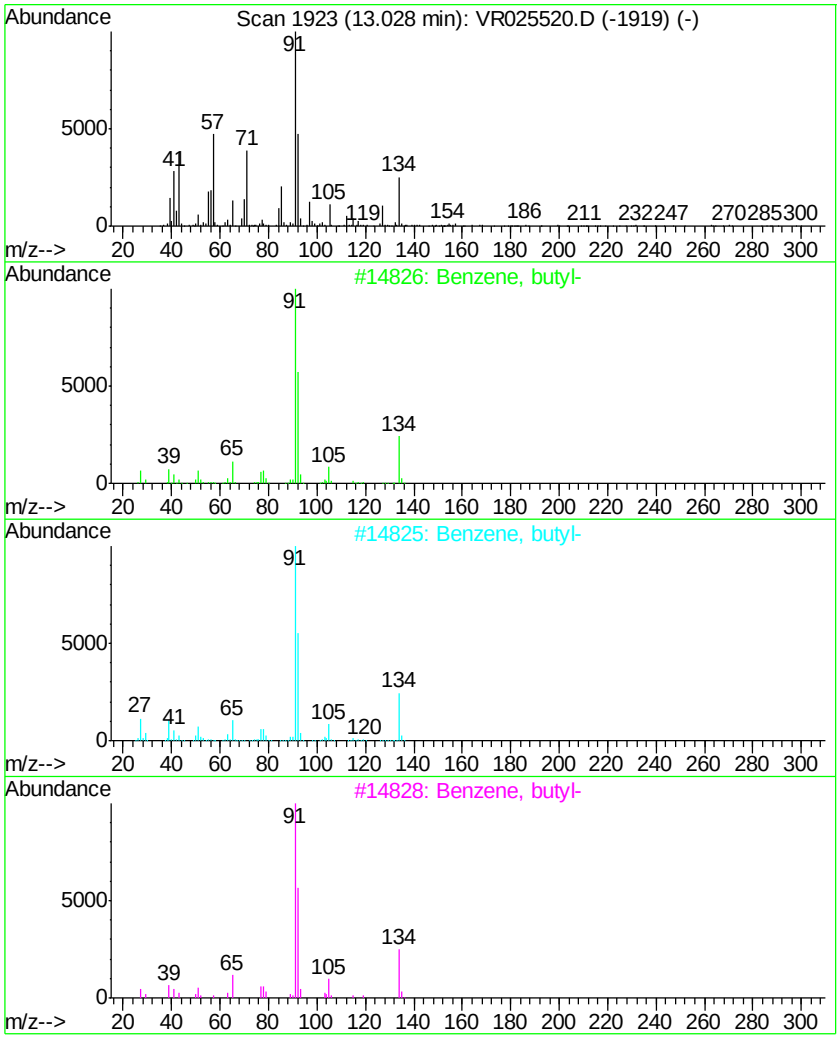
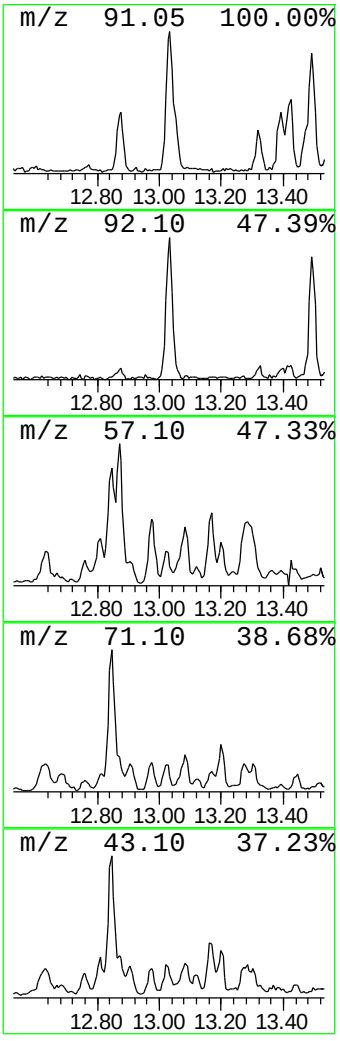
Peak Number 38 unknown-02 Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	0.71 ug/L	233843	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, butyl-	134	C10H14	000104-51-8	38
2	Benzene, butyl-	134	C10H14	000104-51-8	38
3	Benzene, butyl-	134	C10H14	000104-51-8	35
4	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	30
5	Benzene, butyl-	134	C10H14	000104-51-8	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

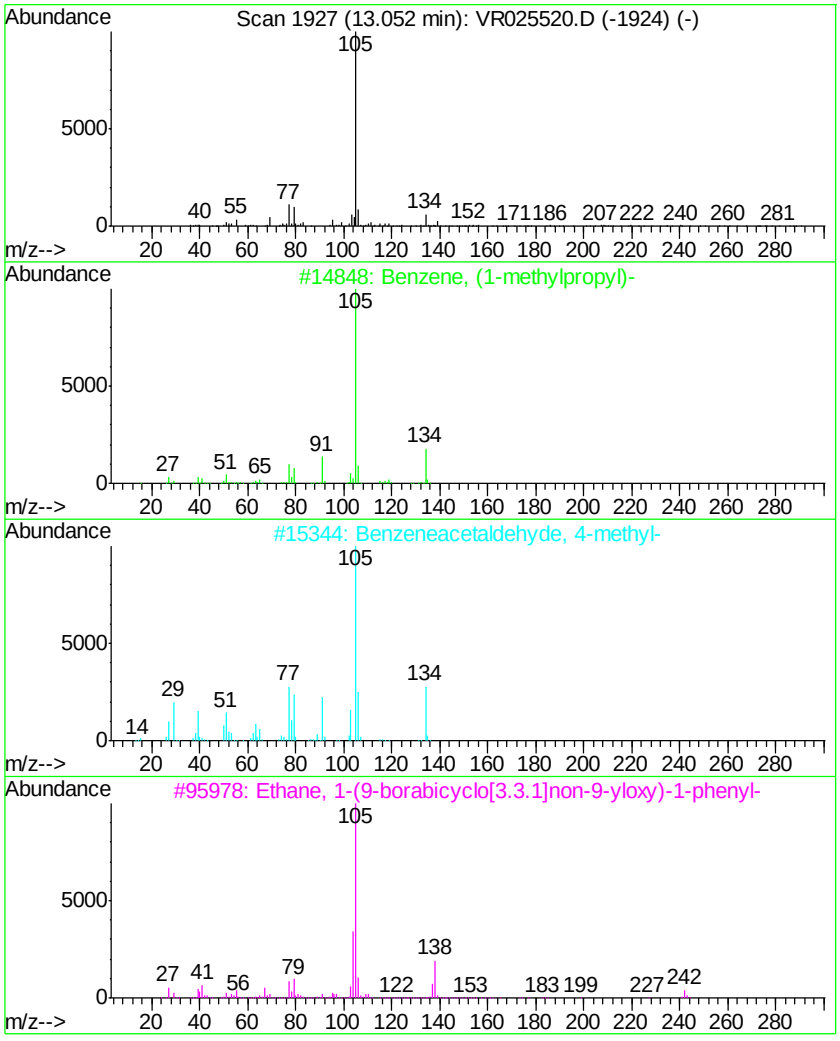
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

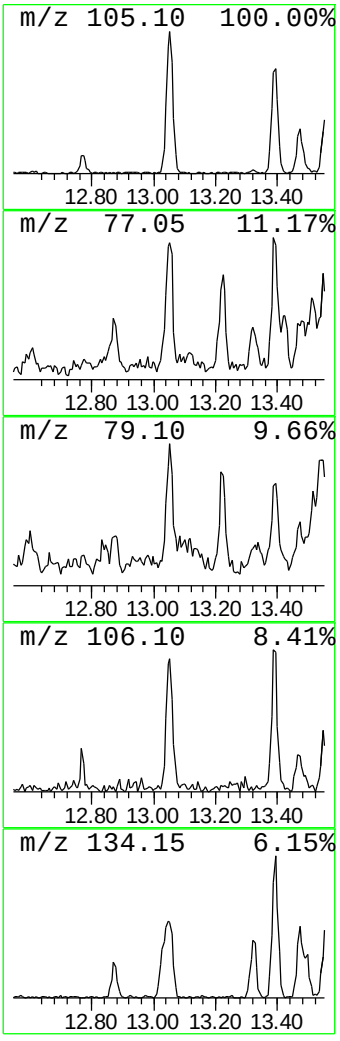
****

Peak Number 39 Benzene, (1-methylpropyl)- Concentration Rank 51

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.05	0.82 ug/L	268811	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	59
2	Benzeneacetaldehyde, 4-methyl-	134	C9H10O	000104-09-6	59
3	Ethane, 1-(9-borabicyclo[3.3.1]n...	242	C16H23BO	1000160-80-6	59
4	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	59
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

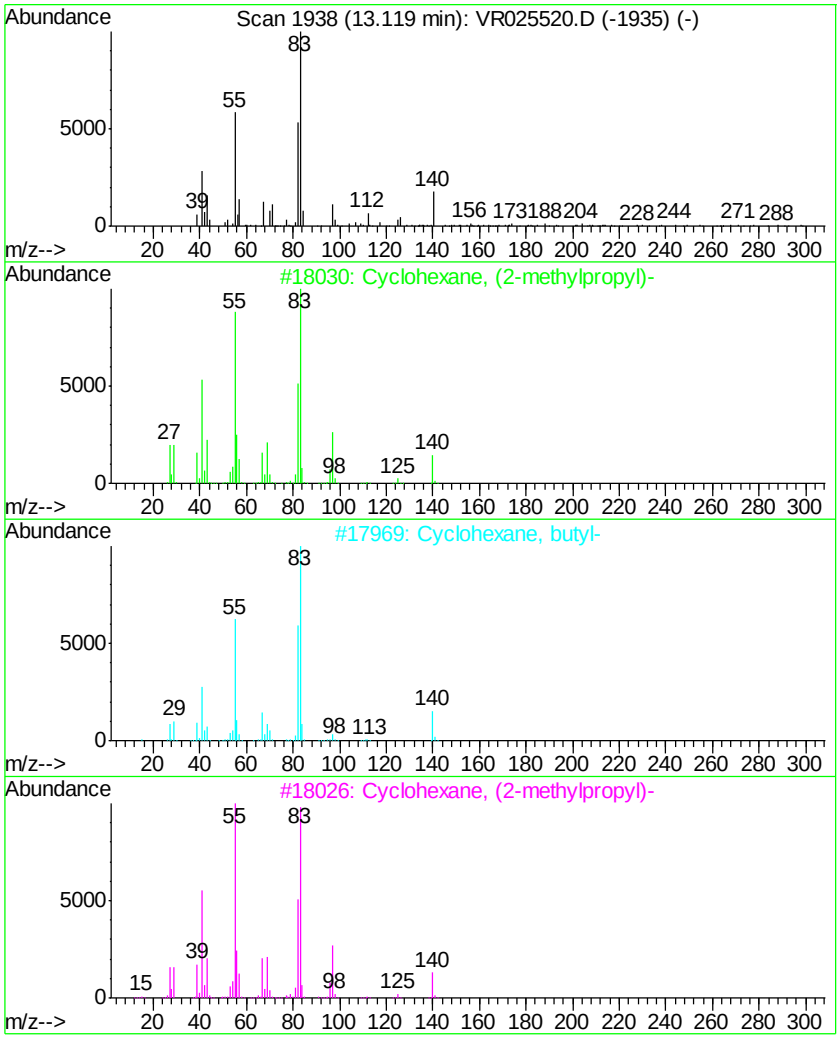
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

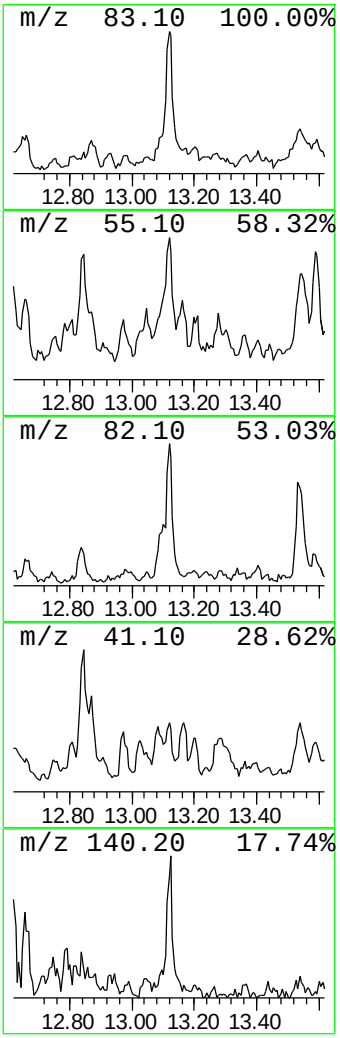
****

Peak Number 40 (DEL) Alkane: Cyclic13.12 Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	0.67 ug/L	219161	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	80
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	72
3	Cyclohexane, (2-methylpropyl)-	140	C10H20	001678-98-4	72
4	Cyclohexane, propyl-	126	C9H18	001678-92-8	64
5	Cyclohexane, ethyl-	112	C8H16	001678-91-7	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

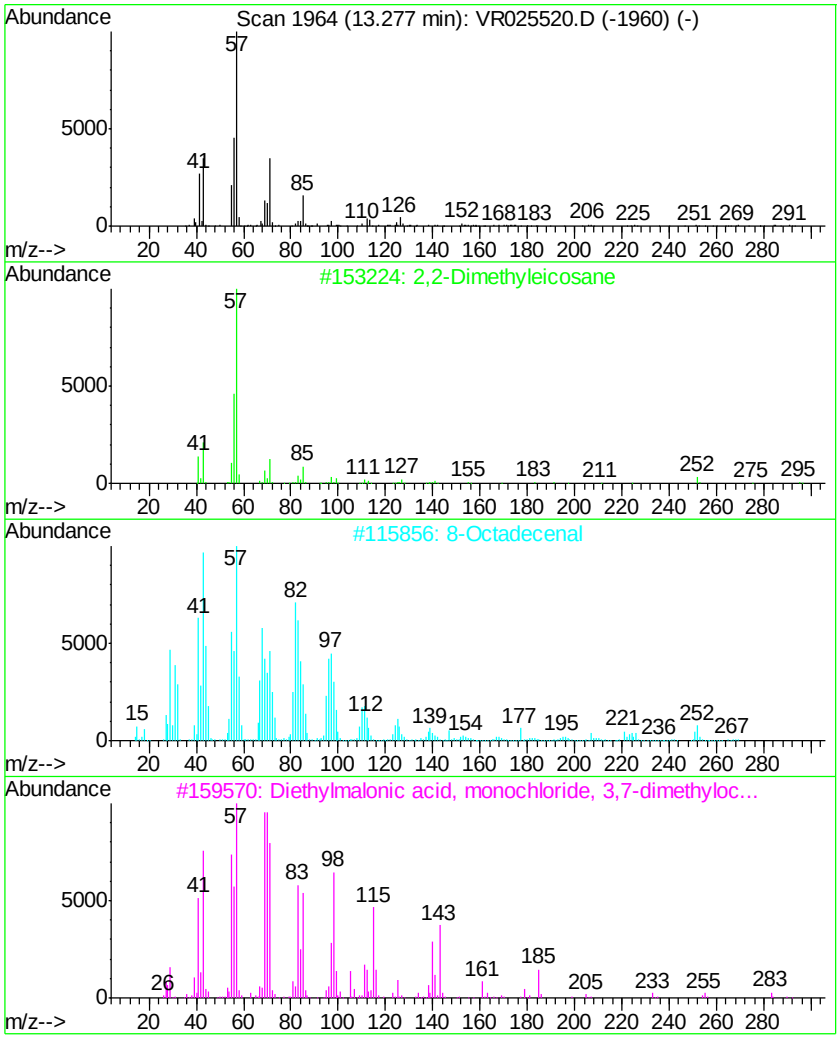
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

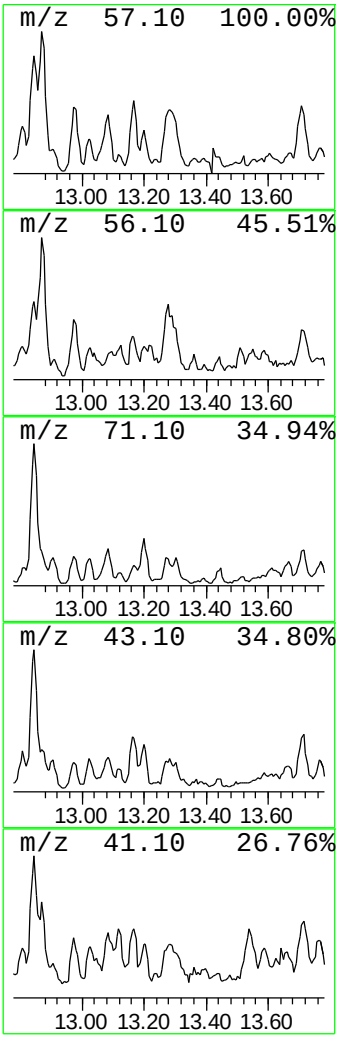
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 41 (DEL) Alkane: Straight-Chai... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	0.71 ug/L	231347	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethyleicosane	310	C22H46	1000360-43-4	53
2	8-Octadecenal	266	C18H34O	056554-94-0	52
3	Diethylmalonic acid, monochlorid...	318	C17H31ClO3	1000369-41-8	50
4	Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	50
5	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

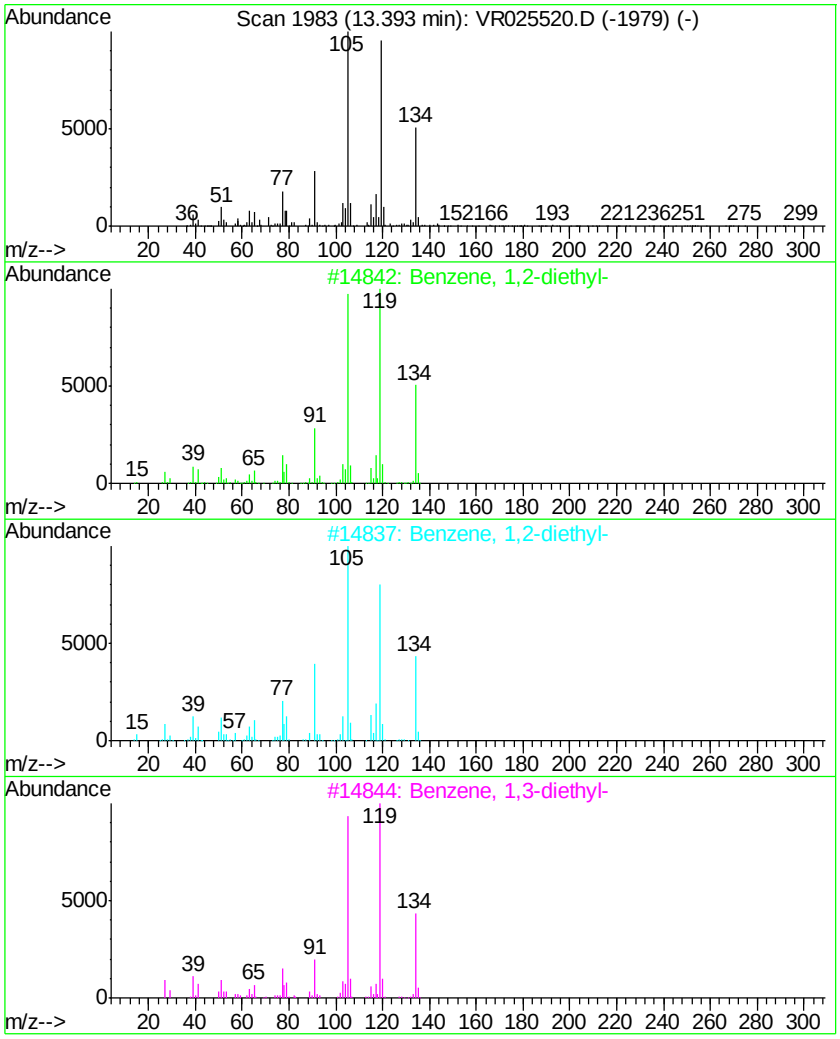
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

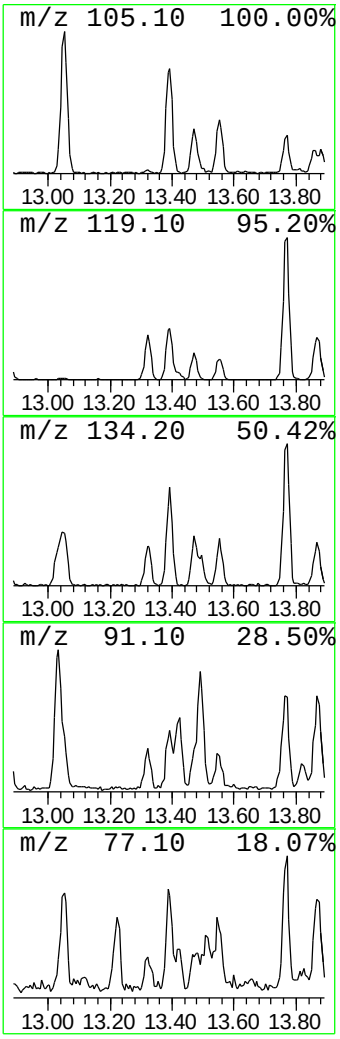
****

Peak Number 42 Benzene, 1,2-diethyl- Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.39	1.04 ug/L	340413	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	95
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	91
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	91
5	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

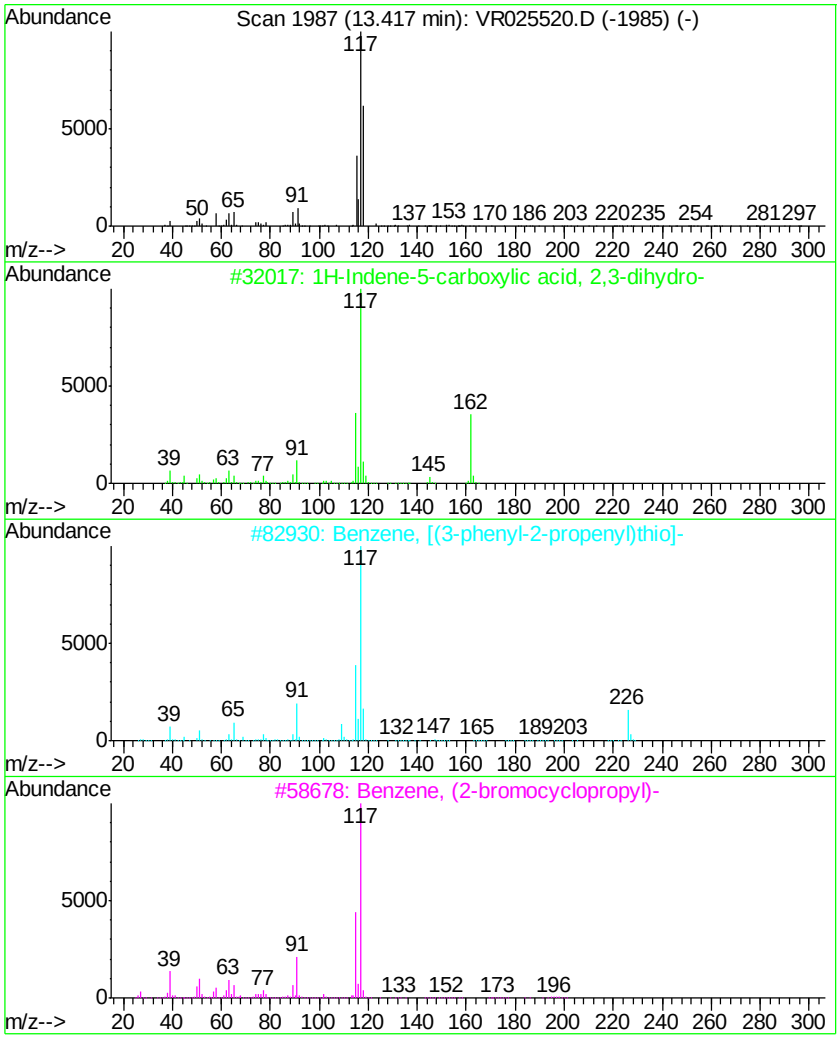
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

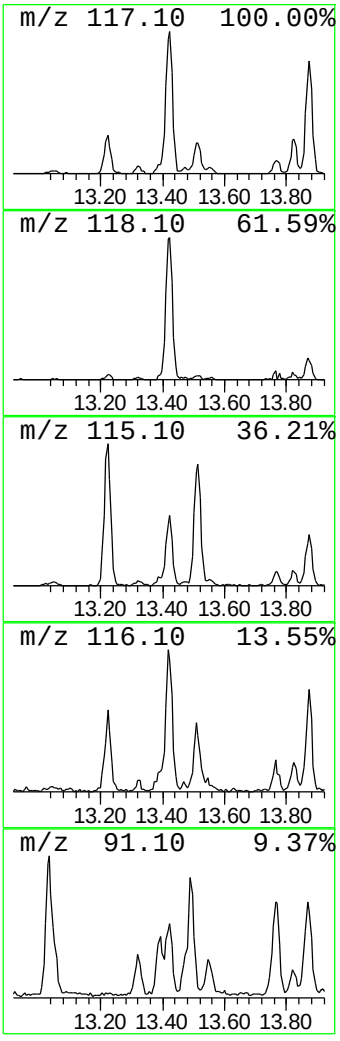
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 43 1H-Indene-5-carboxylic acid... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.42	1.86 ug/L	610035	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene-5-carboxylic acid, 2,3...	162	C10H10O2	1000337-61-3	59
2	Benzene, [(3-phenyl-2-propenyl)t...	226	C15H14S	010276-14-9	59
3	Benzene, (2-bromocyclopropyl)-	196	C9H9Br	036617-02-4	59
4	Benzeneethanol, .beta.-ethenyl-	148	C10H12O	006052-63-7	56
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

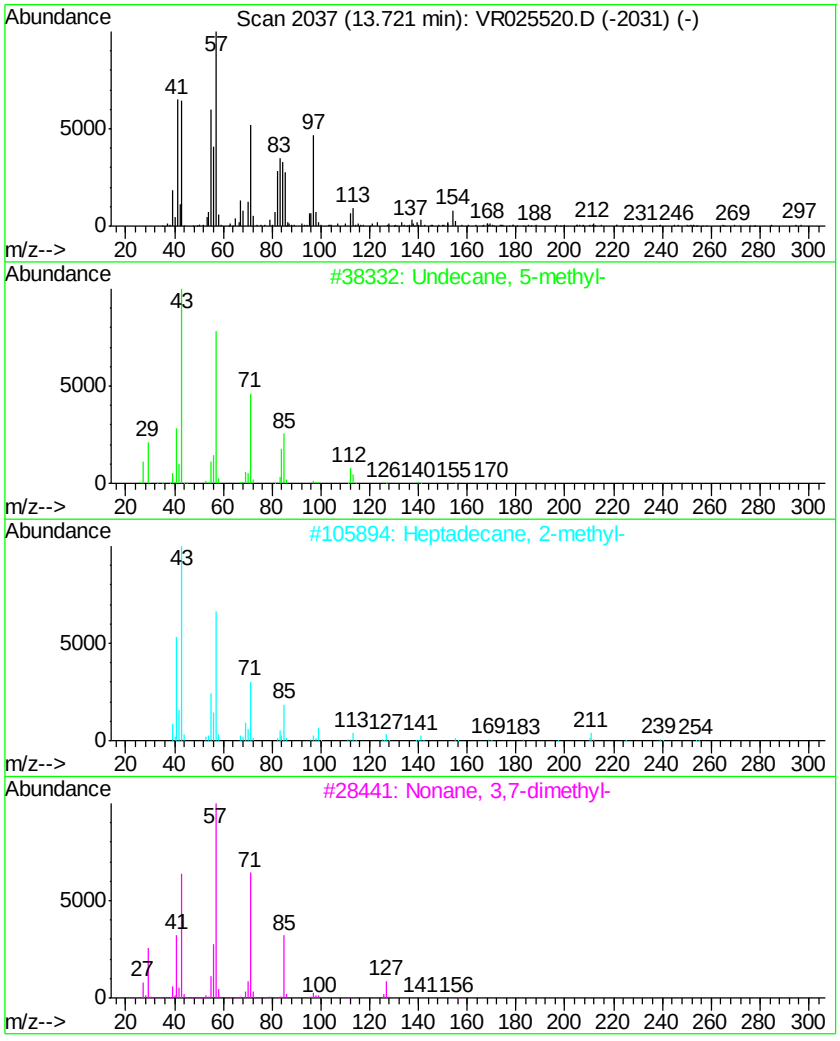
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

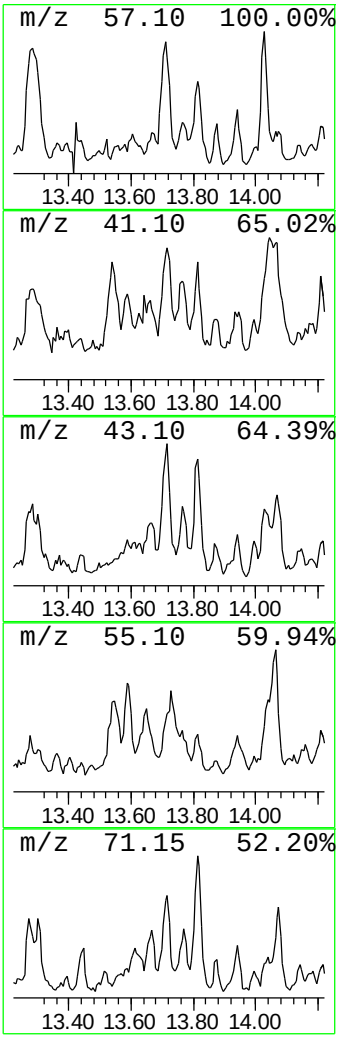
****

Peak Number 44 (DEL) Alkane: Straight-Chai... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.72	1.20 ug/L	394224	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 5-methyl-	170	C12H26	001632-70-8	76
2	Heptadecane, 2-methyl-	254	C18H38	001560-89-0	58
3	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	53
4	Octane, 1,1'-oxybis-	242	C16H34O	000629-82-3	50
5	Carbonic acid, allyl 2-ethylhexy...	214	C12H22O3	1000357-80-6	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

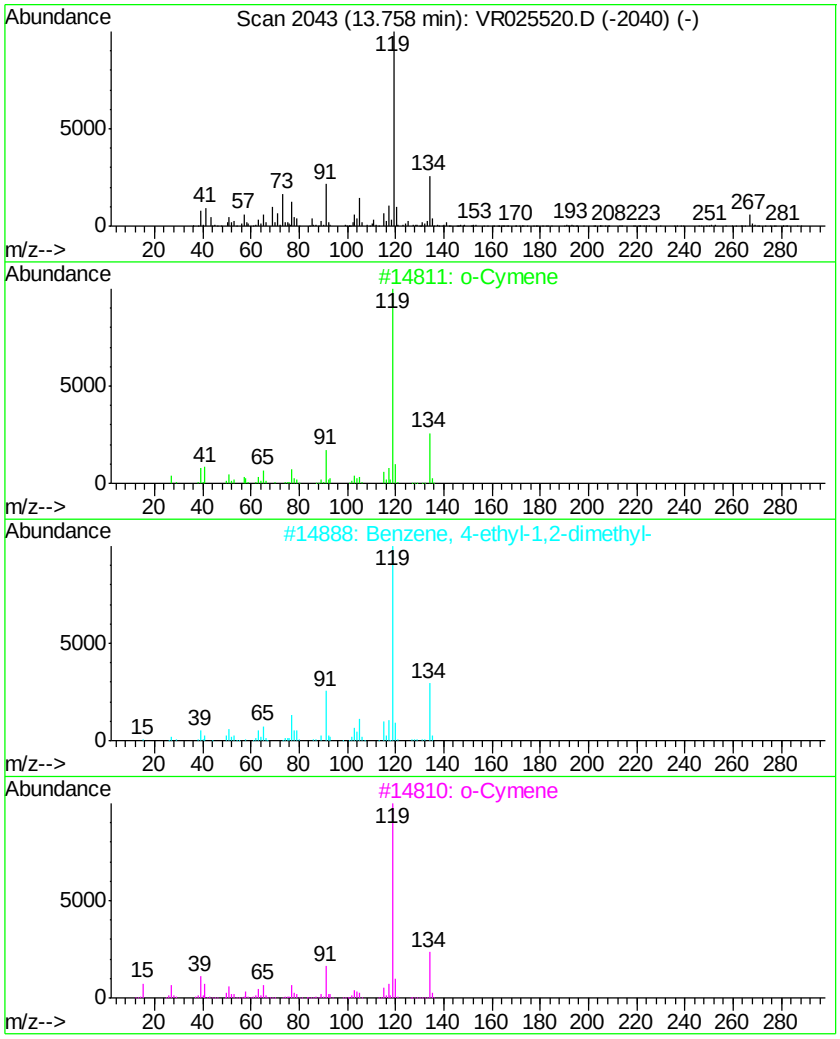
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

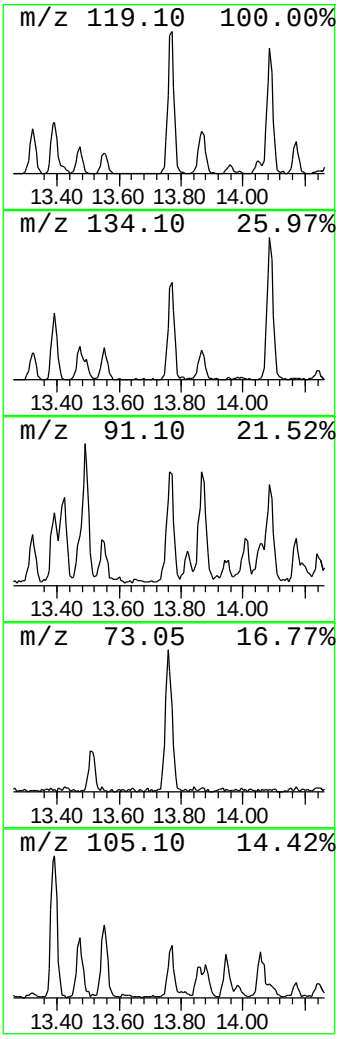
****

Peak Number 45 o-Cymene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	2.22 ug/L	728923	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	94
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3	o-Cymene	134	C10H14	000527-84-4	93
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	93





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

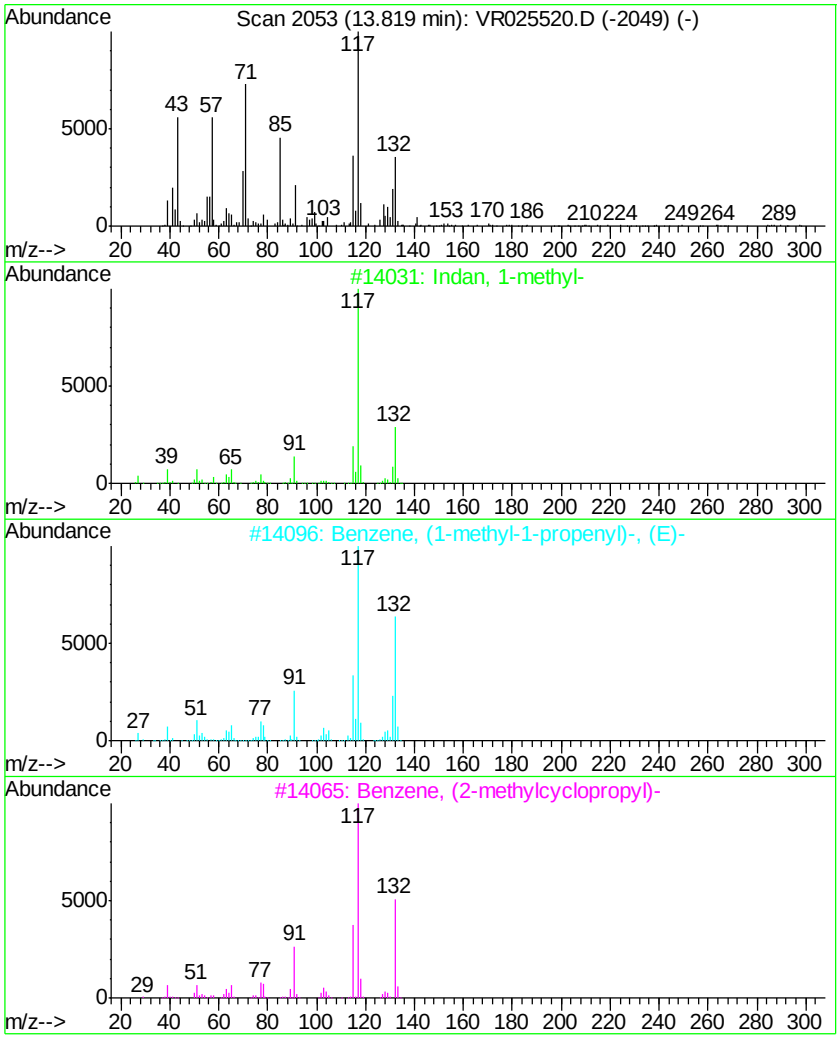
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

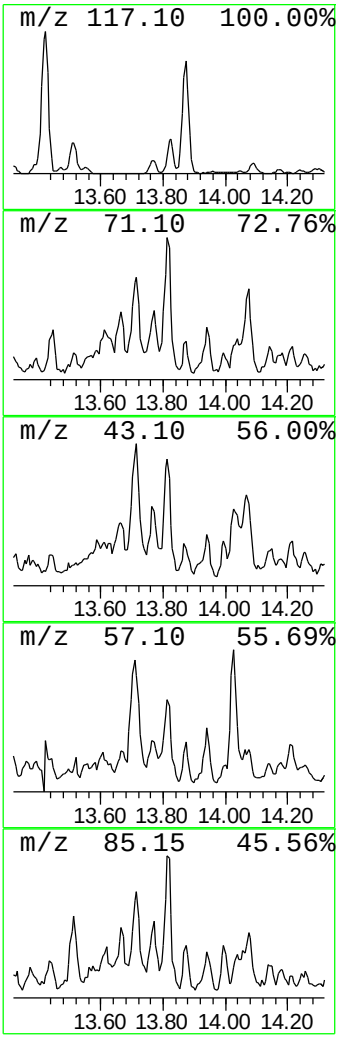
****

Peak Number 46 unknown-03 Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	1.07 ug/L	350782	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	45
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	43
3	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	43
4	Indan, 1-methyl-	132	C10H12	000767-58-8	43
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

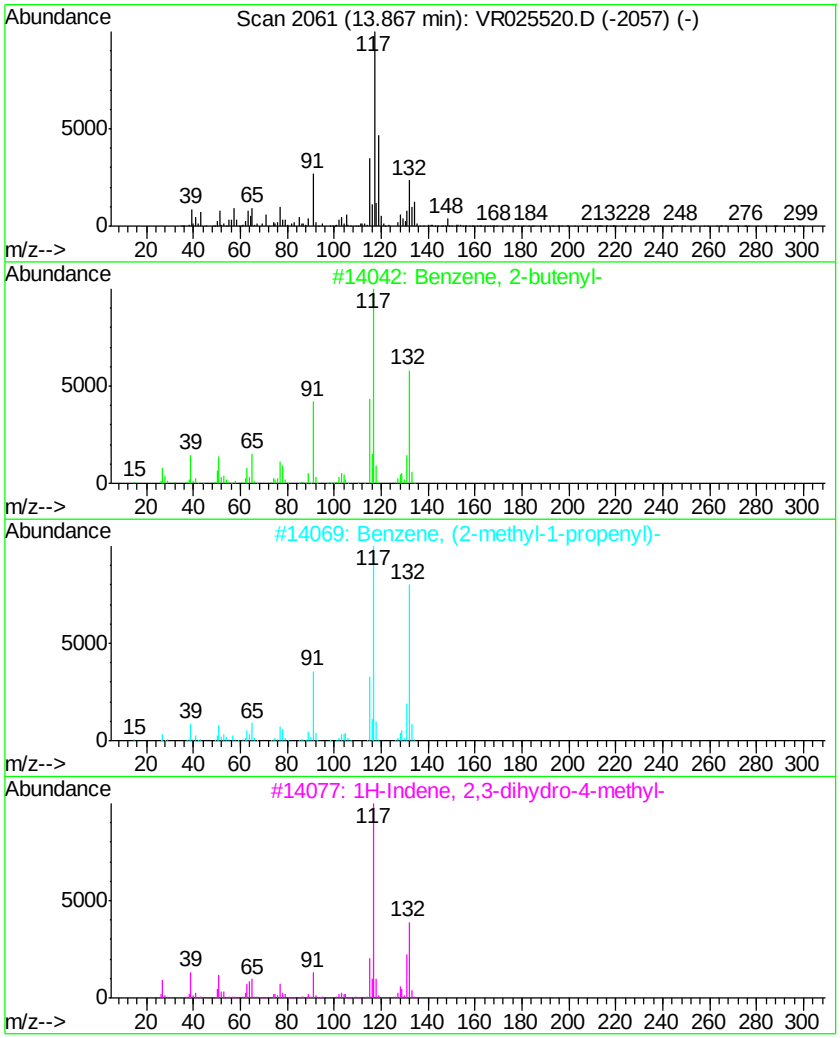
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

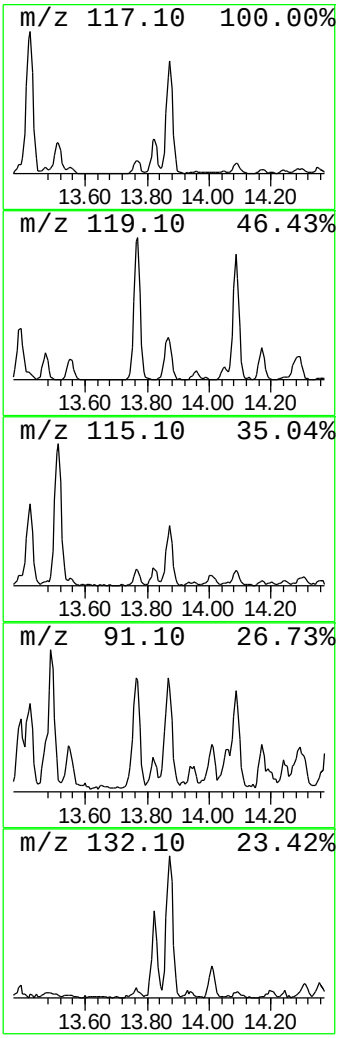
****

Peak Number 47 Benzene, 2-butenyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	2.20 ug/L	721800	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-butenyl-	132	C10H12	001560-06-1	74
2	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	74
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	72
4	Indan, 1-methyl-	132	C10H12	000767-58-8	72
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

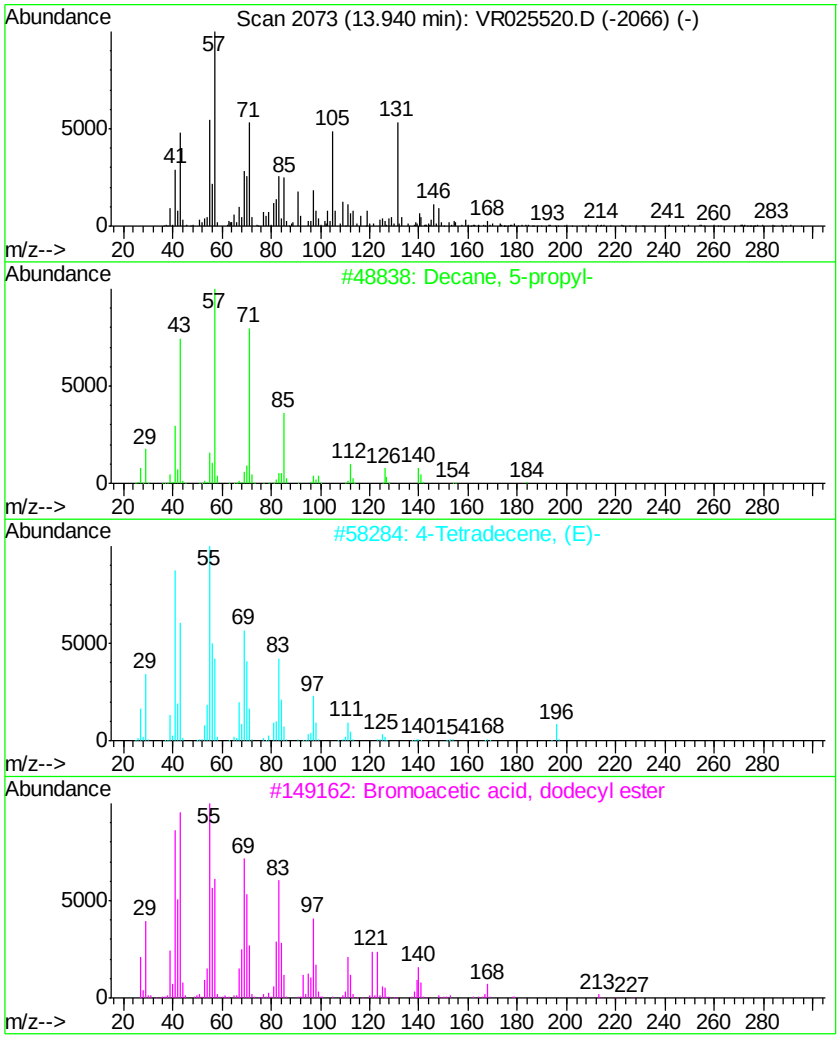
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

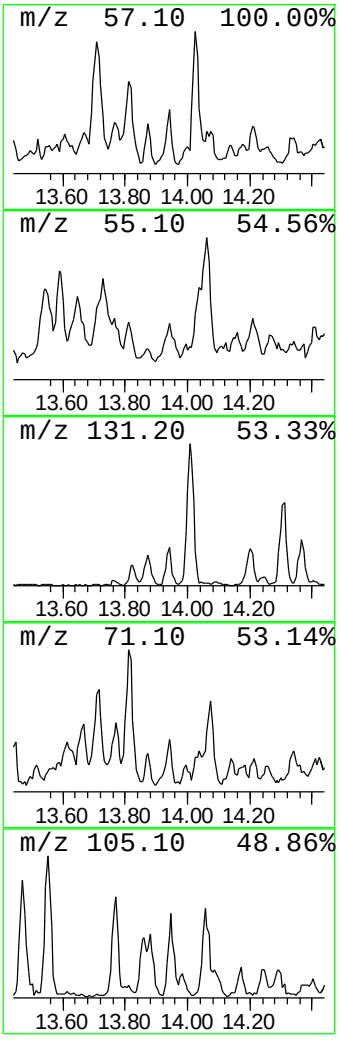
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 48 (DEL) Alkane: Straight-Chai... Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	1.02 ug/L	334325	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 5-propyl-	184	C13H28	017312-62-8	35
2	4-Tetradecene, (E)-	196	C14H28	041446-78-0	30
3	Bromoacetic acid, dodecyl ester	306	C14H27BrO2	003674-07-5	27
4	7-Hexadecene, (Z)-	224	C16H32	035507-09-6	27
5	Hexadecane, 3-methyl-	240	C17H36	006418-43-5	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

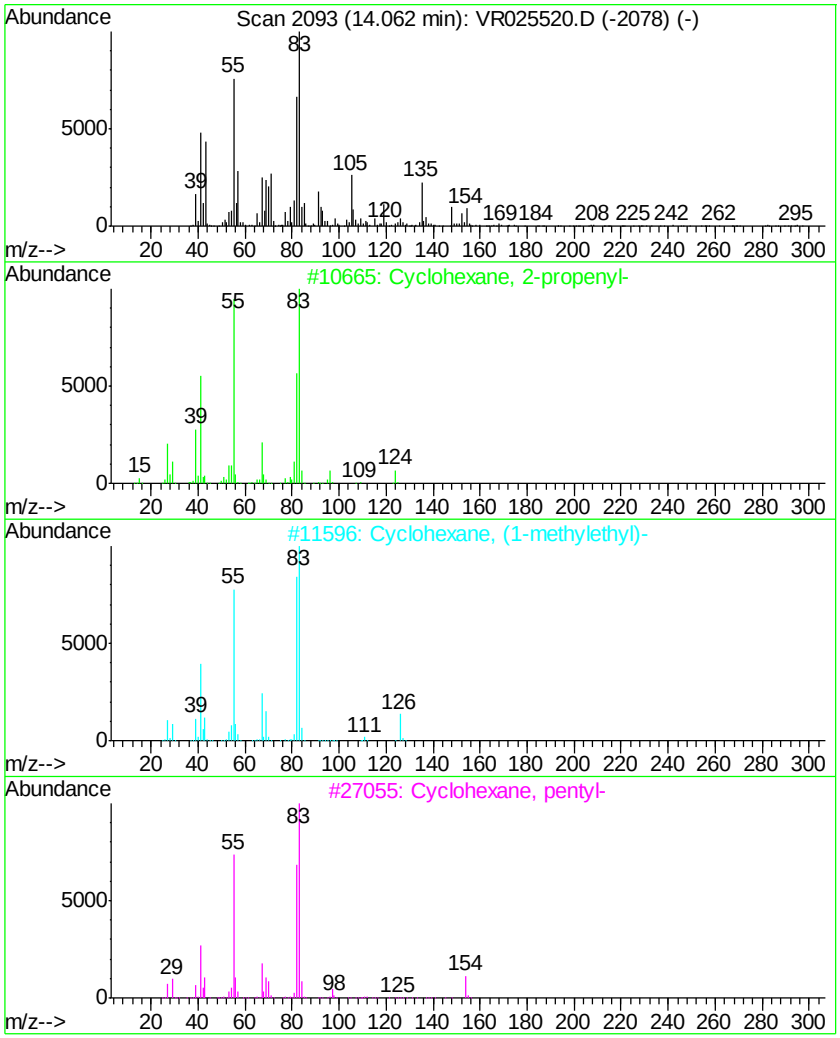
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

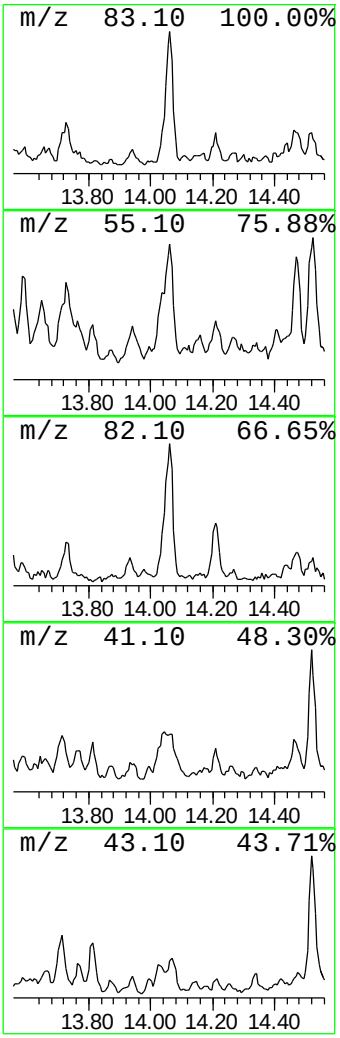
****

Peak Number 49 unknown-04 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.06	4.05 ug/L	1327910	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 2-propenyl-	124	C9H16	002114-42-3	49
2	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	49
3	Cyclohexane, pentyl-	154	C11H22	004292-92-6	46
4	Cyclohexane, pentyl-	154	C11H22	004292-92-6	46
5	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

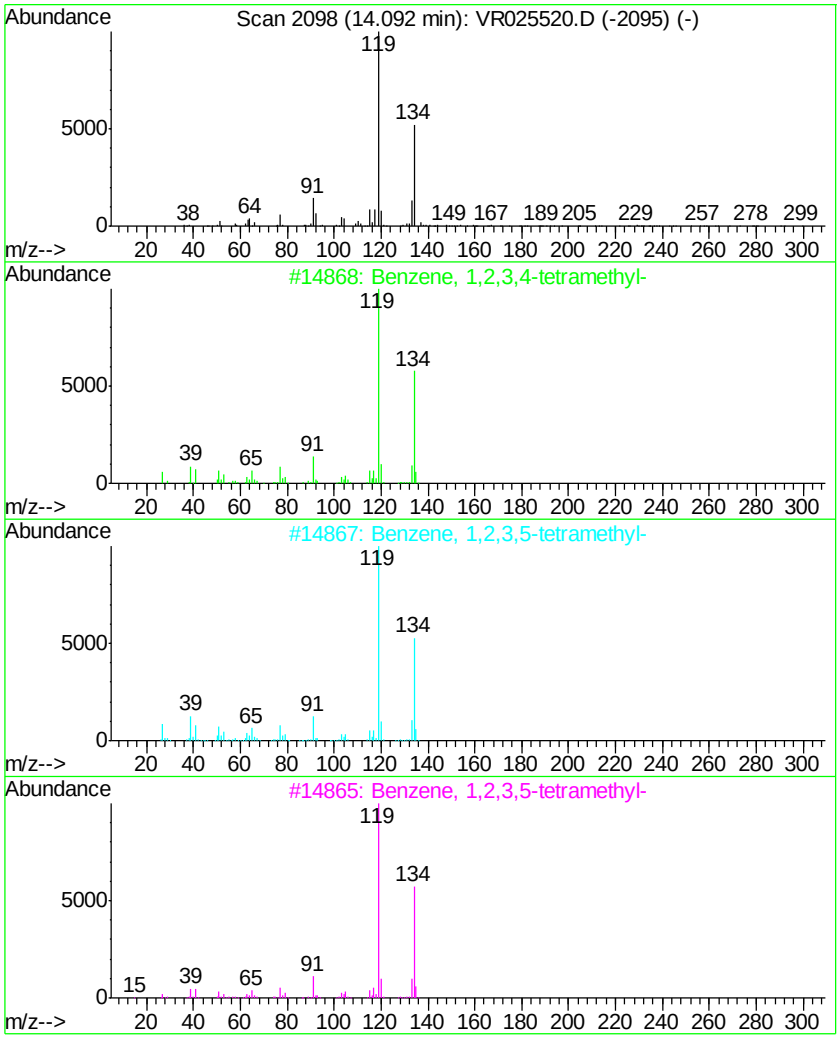
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

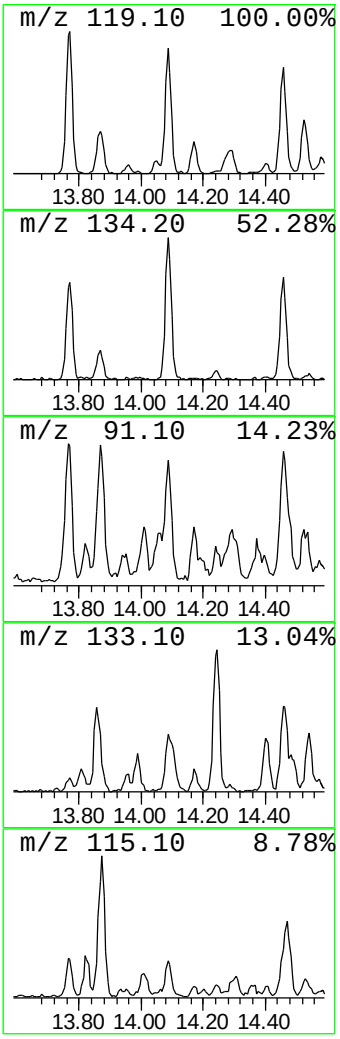
****

Peak Number 50 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.09	1.63 ug/L	533782	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

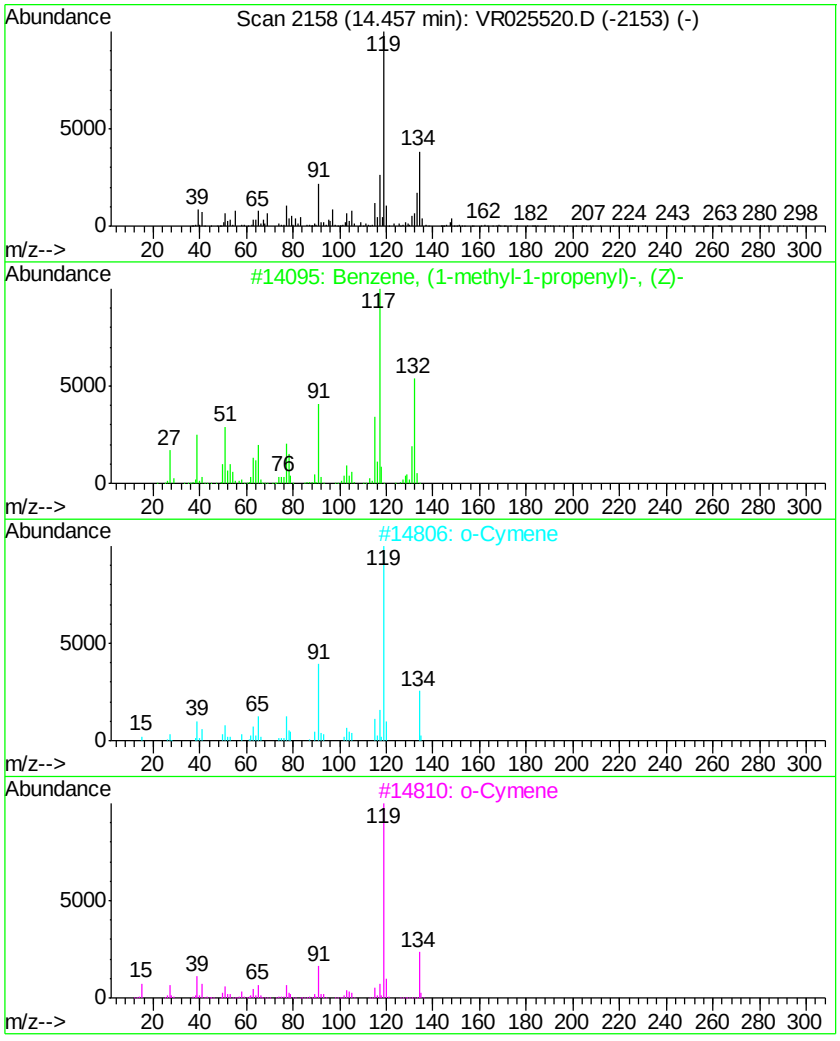
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

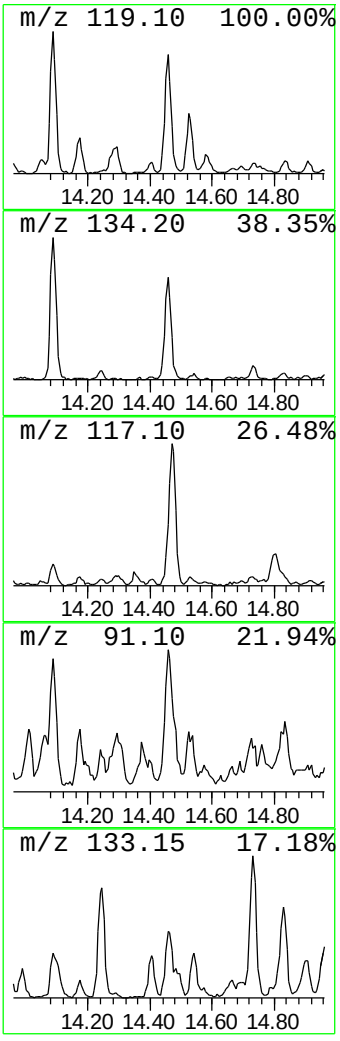
****

Peak Number 51 Benzene, (1-methyl-1-propen... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.46	3.37 ug/L	1106030	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	74
2	o-Cymene	134	C10H14	000527-84-4	55
3	o-Cymene	134	C10H14	000527-84-4	50
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	50
5	o-Cymene	134	C10H14	000527-84-4	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

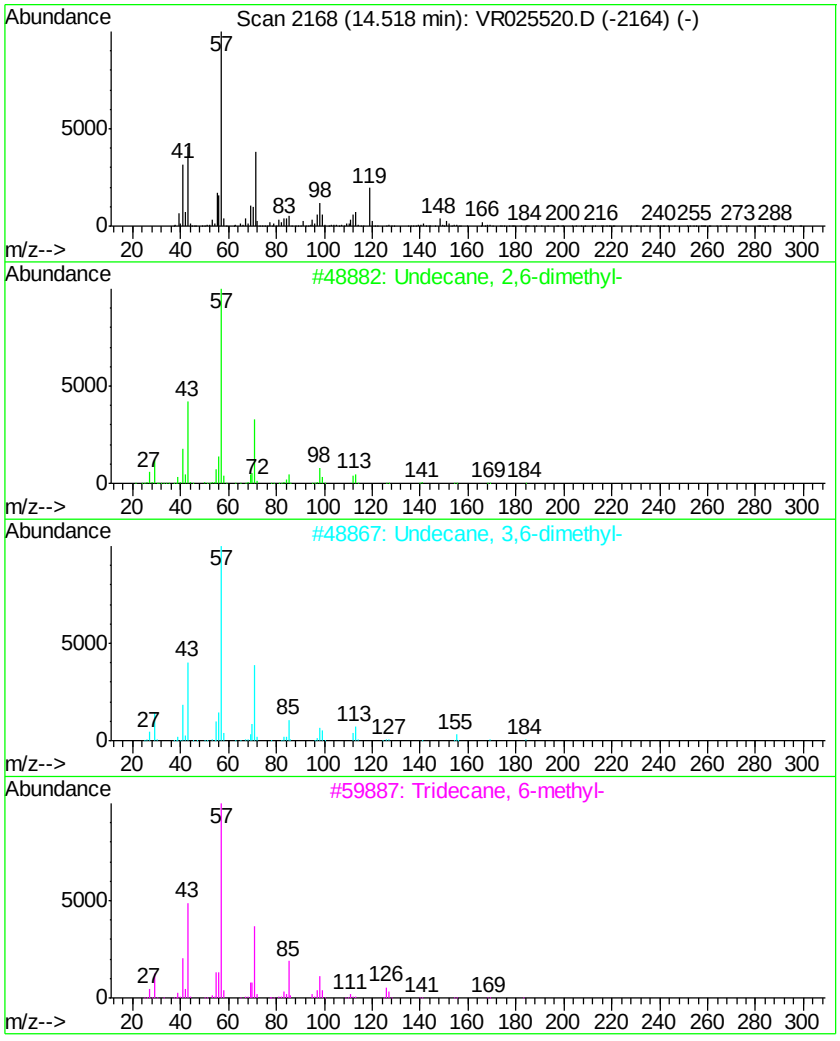
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

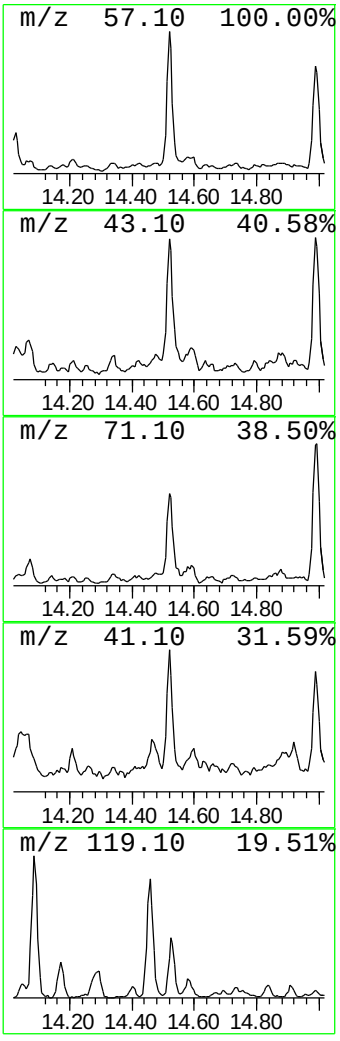
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 52 (DEL) Alkane: Straight-Chai... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.52	3.80 ug/L	1247130	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	92
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	70
3	Tridecane, 6-methyl-	198	C14H30	013287-21-3	53
4	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	53
5	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

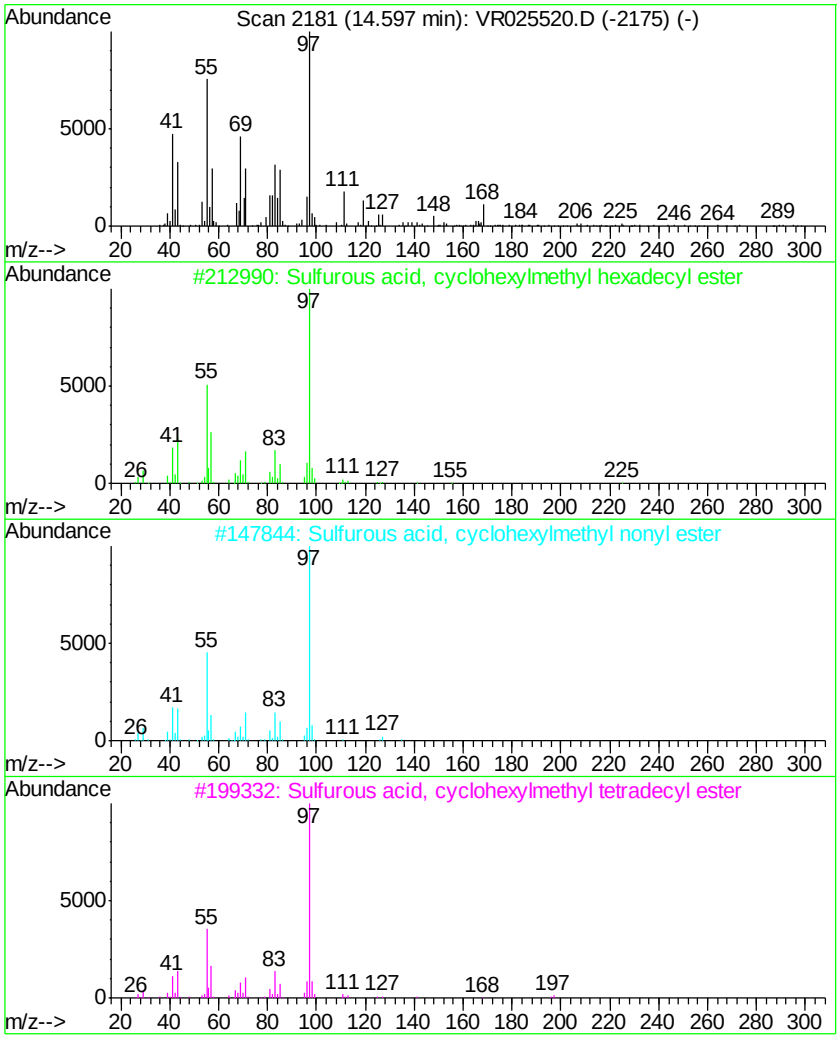
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

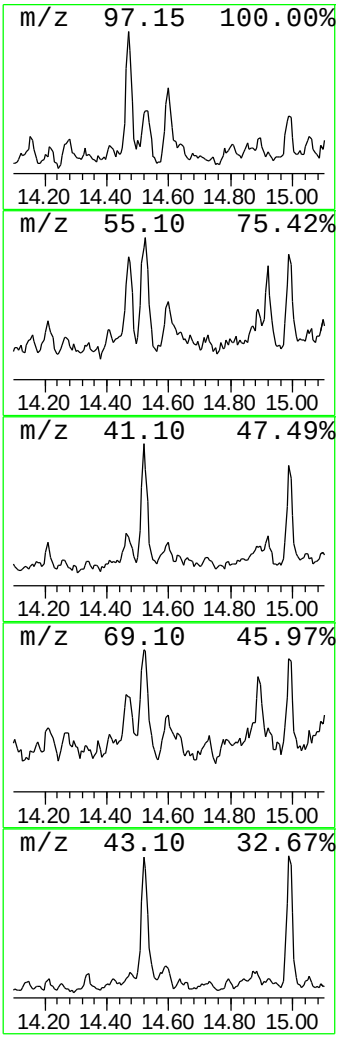
****

Peak Number 53 Sulfurous acid, cyclohexylm... Concentration Rank 57

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.60	0.70 ug/L	230246	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, cyclohexylmethyl...	402	C23H46O3S	1000309-22-4	59
2	Sulfurous acid, cyclohexylmethyl...	304	C16H32O3S	1000309-21-8	59
3	Sulfurous acid, cyclohexylmethyl...	374	C21H42O3S	1000309-22-2	59
4	Sulfurous acid, cyclohexylmethyl...	416	C24H48O3S	1000309-22-5	53
5	Cyclohexane, 1-methyl-2-pentyl-	168	C12H24	054411-01-7	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

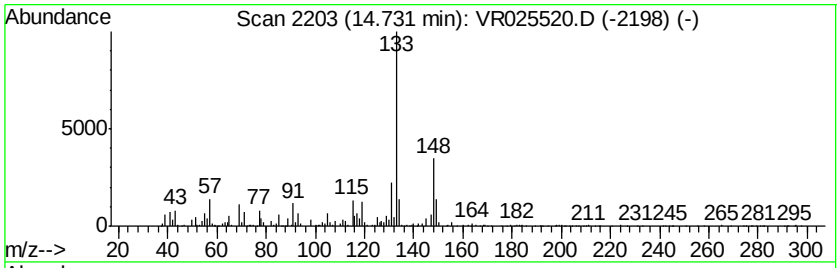
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

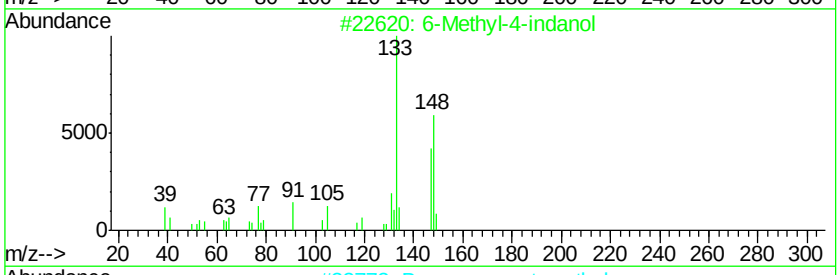
****

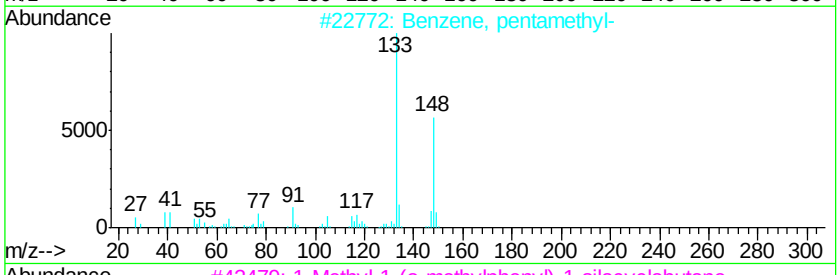
Peak Number 54 6-Methyl-4-indanol Concentration Rank 61

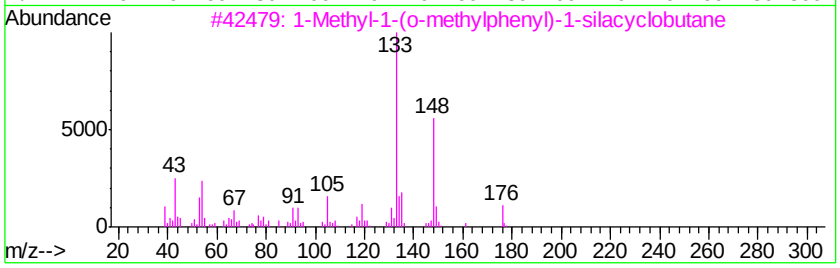
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	0.66 ug/L	217273	1,4-Dichlorobenzene-d4	13.22

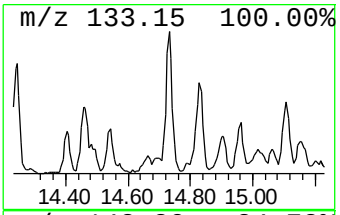
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Methyl-4-indanol	148	C10H12O	020294-32-0	83
2	Benzene, pentamethyl-	148	C11H16	000700-12-9	64
3	1-Methyl-1-(o-methylphenyl)-1-si...	176	C11H16Si	1000215-04-4	64
4	Benzene, 1-ethyl-3-(1-methylethyl)-	148	C11H16	004920-99-4	64
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	58

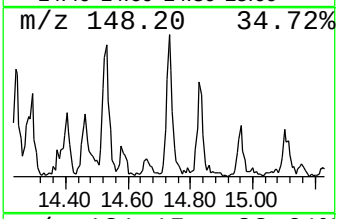


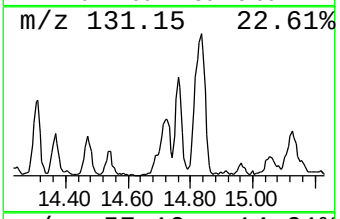


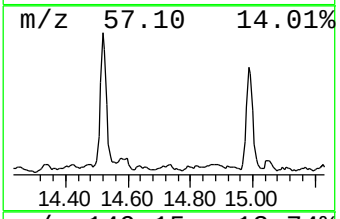


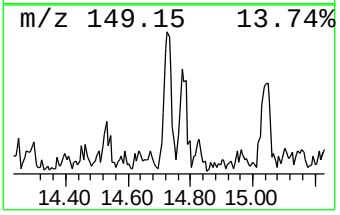












Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

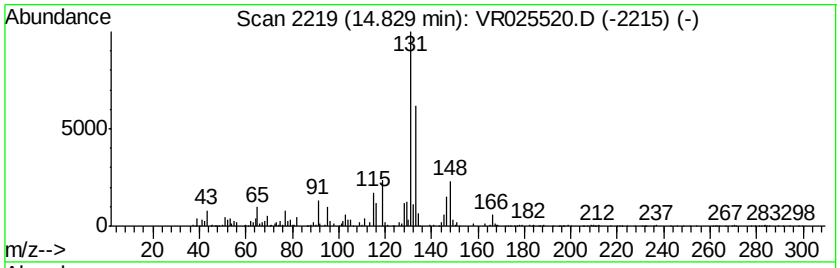
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

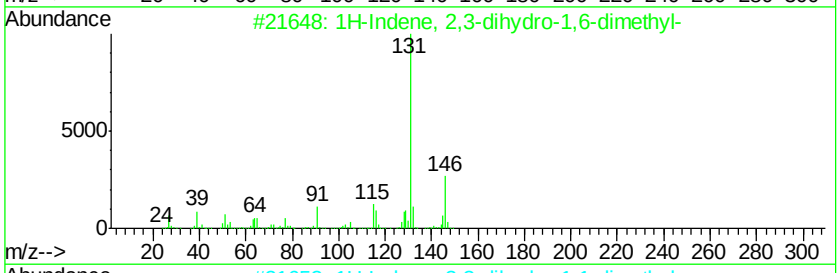
****

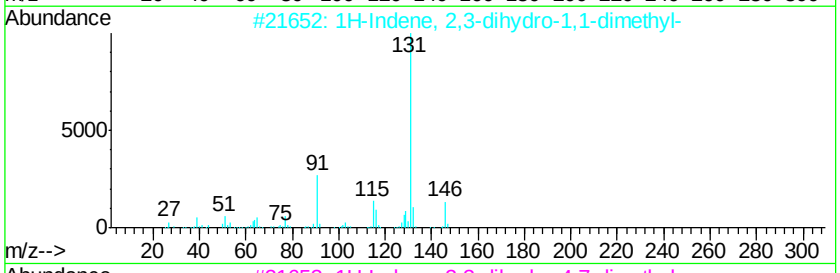
Peak Number 55 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 44

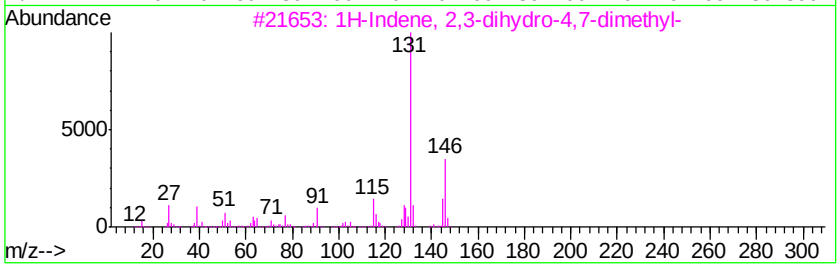
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	0.98 ug/L	322834	1,4-Dichlorobenzene-d4	13.22

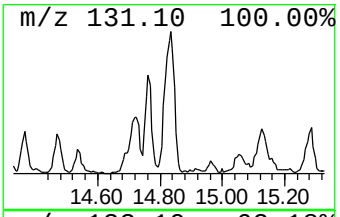
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	78
2	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	60
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	60
4	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	60
5	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	60

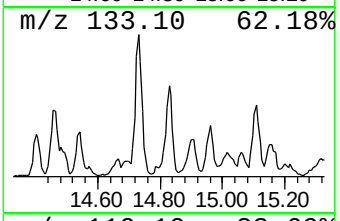


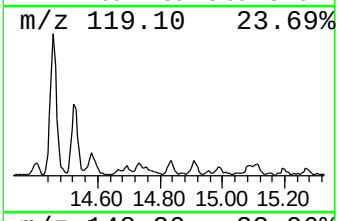


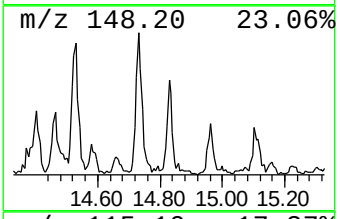


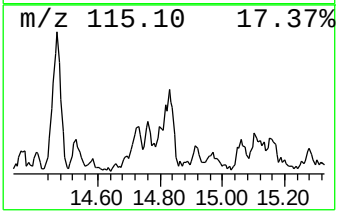












Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

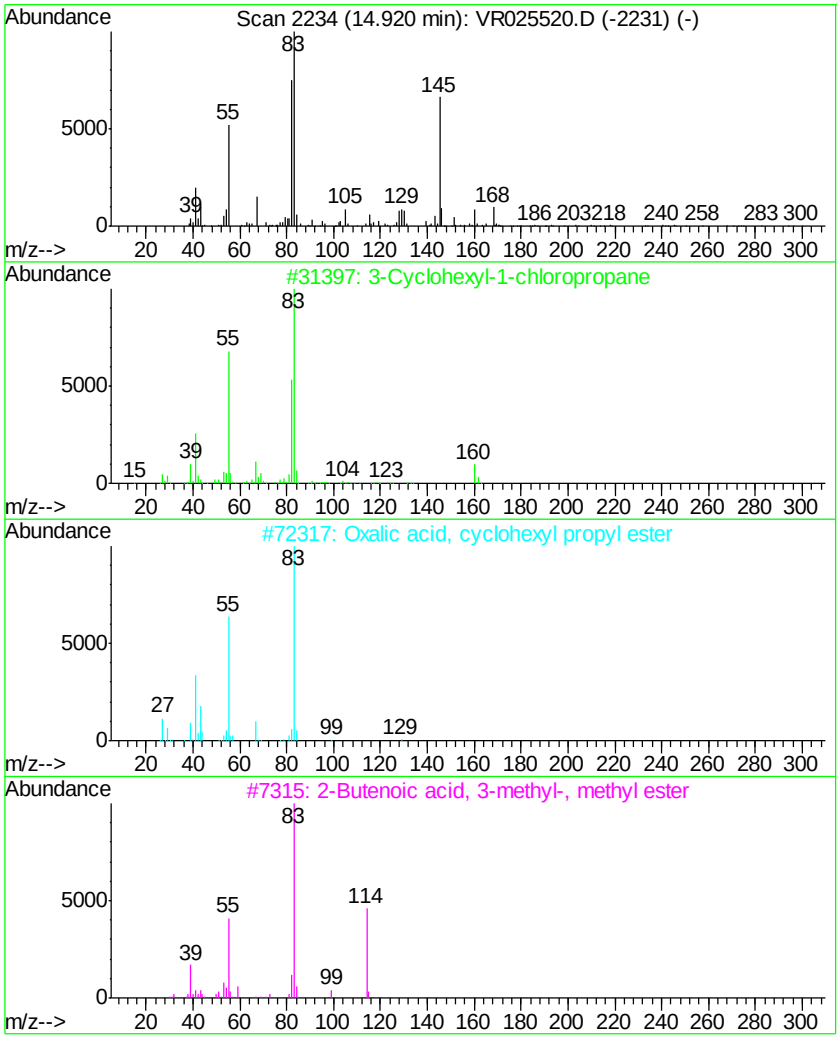
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

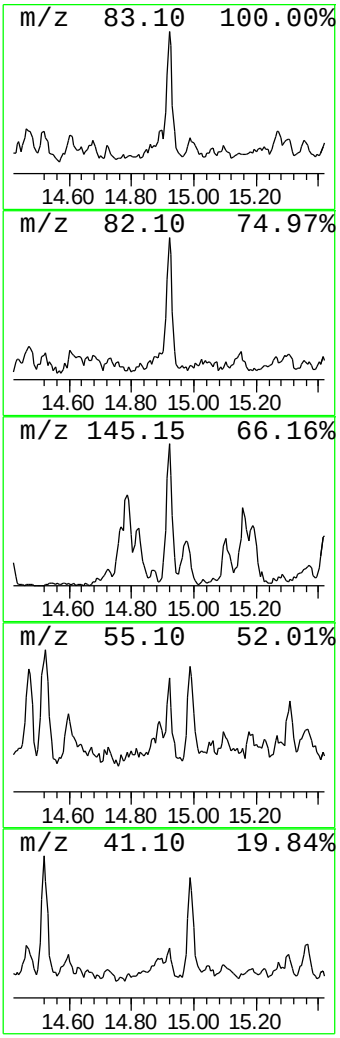
****

Peak Number 56 unknown-05 Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.92	0.89 ug/L	292008	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Cyclohexyl-1-chloropropane	160	C9H17Cl	001124-62-5	43
2	Oxalic acid, cyclohexyl propyl e...	214	C11H18O4	1000309-30-3	22
3	2-Butenoic acid, 3-methyl-, meth...	114	C6H10O2	000924-50-5	22
4	Oxalic acid, cyclohexyl pentyl e...	242	C13H22O4	1000309-30-6	22
5	1H-Indene, 2,3-dihydro-1,1,6-tri...	160	C12H16	014276-95-0	15





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

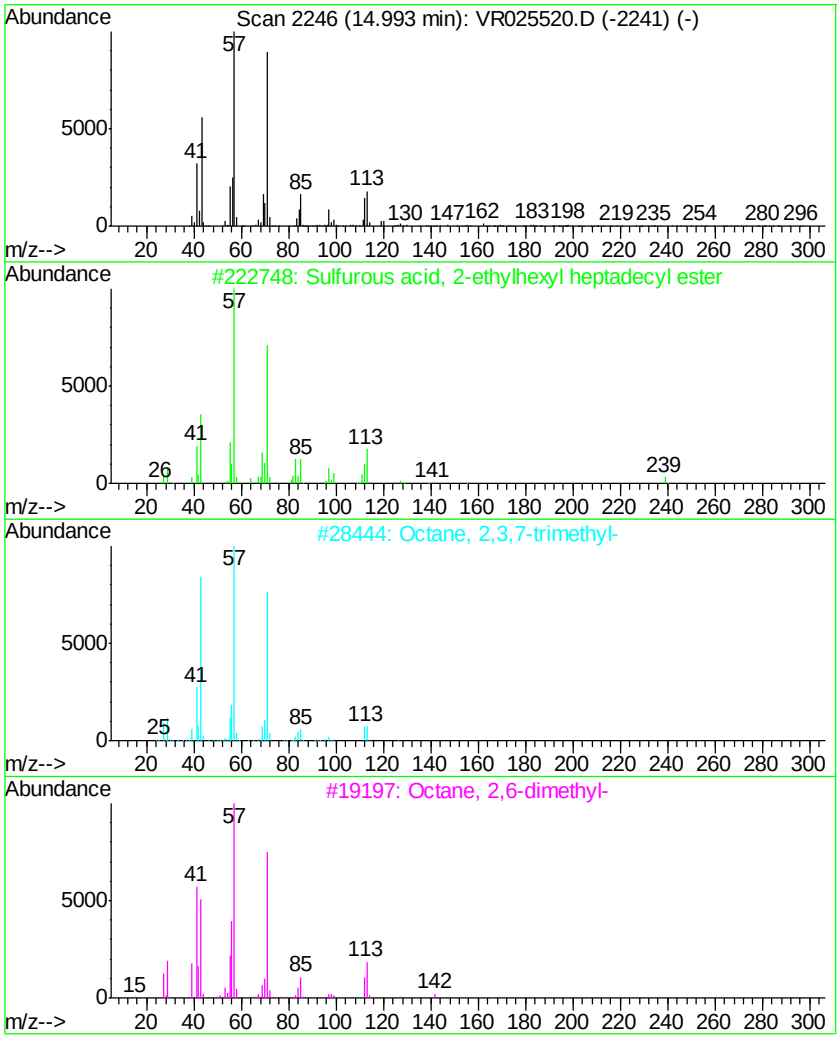
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

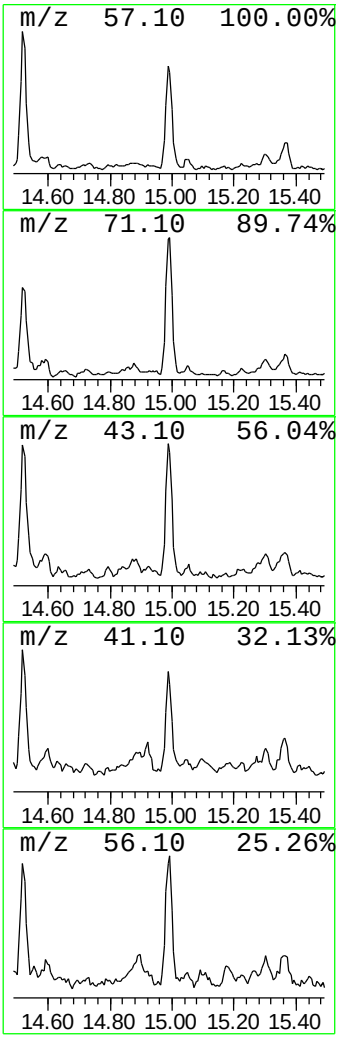
****

Peak Number 57 Sulfurous acid, 2-ethylhexy... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	2.54 ug/L	832150	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfurous acid, 2-ethylhexyl hep...	432	C25H52O3S	1000309-20-0	90
2	Octane, 2,3,7-trimethyl-	156	C11H24	062016-34-6	83
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	83
4	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1000309-19-2	80
5	Tridecane, 7-methyl-	198	C14H30	026730-14-3	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

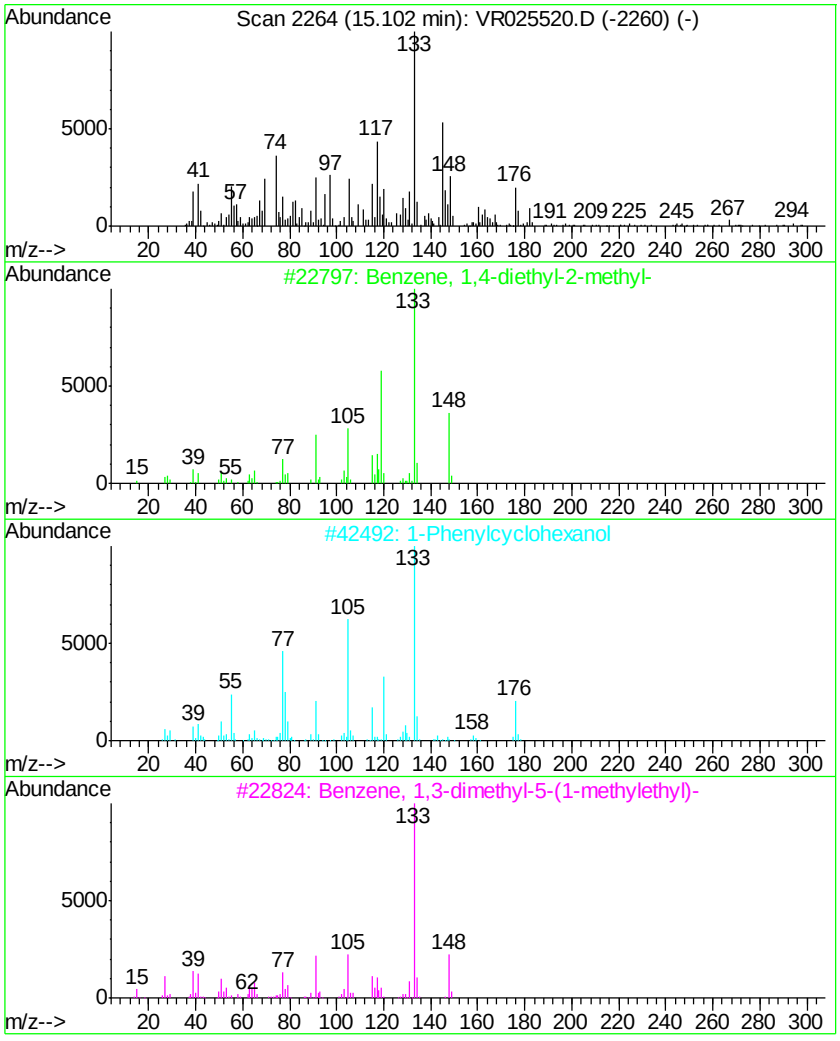
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

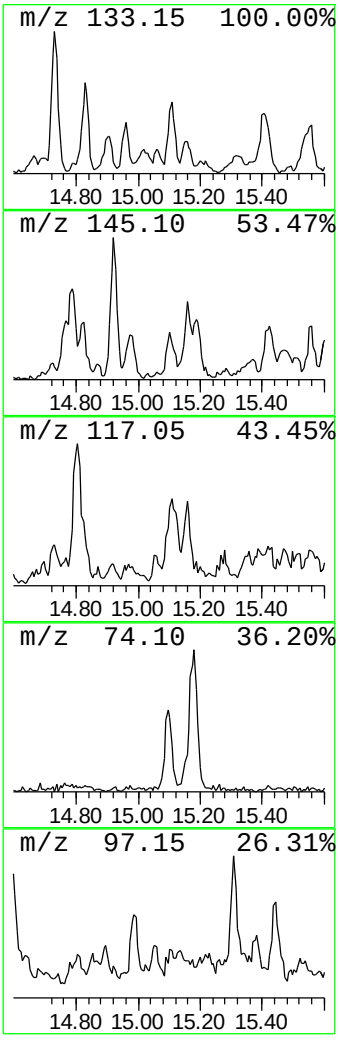
****

Peak Number 58 unknown-06 Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	0.88 ug/L	287363	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	38
2	1-Phenylcyclohexanol	176	C12H16O	001589-60-2	38
3	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	38
4	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	30
5	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	30





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

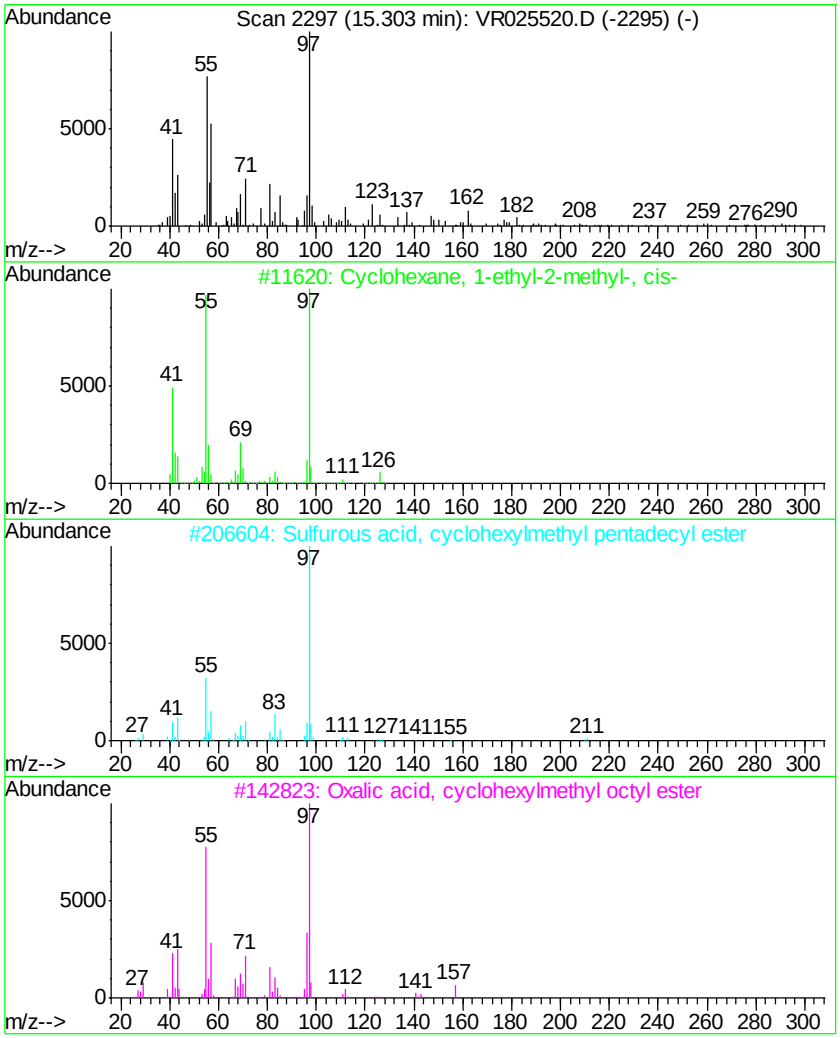
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

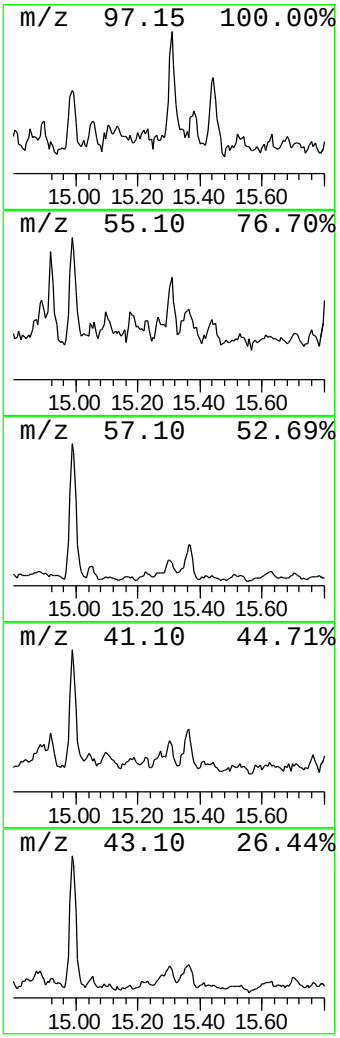
****

Peak Number 59 (DEL) Alkane: Cyclic15.30 Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	0.70 ug/L	229494	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-ethyl-2-methyl-, ...	126	C9H18	004923-77-7	70
2	Sulfurous acid, cyclohexylmethyl...	388	C22H44O3S	1000309-22-3	64
3	Oxalic acid, cyclohexylmethyl oc...	298	C17H30O4	1000309-68-4	59
4	Oxalic acid, monoamide, N-cycloh...	255	C14H25NO3	1000309-48-3	59
5	Sulfurous acid, cyclohexylmethyl...	346	C19H38O3S	1000309-22-0	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

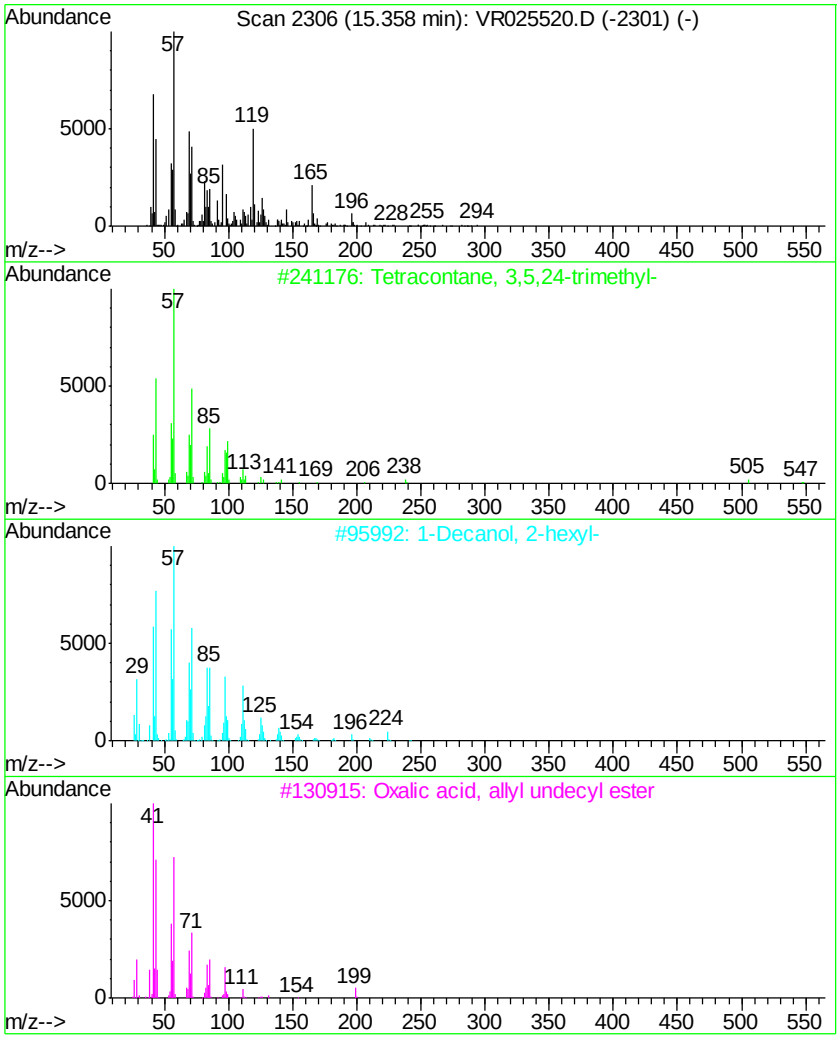
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

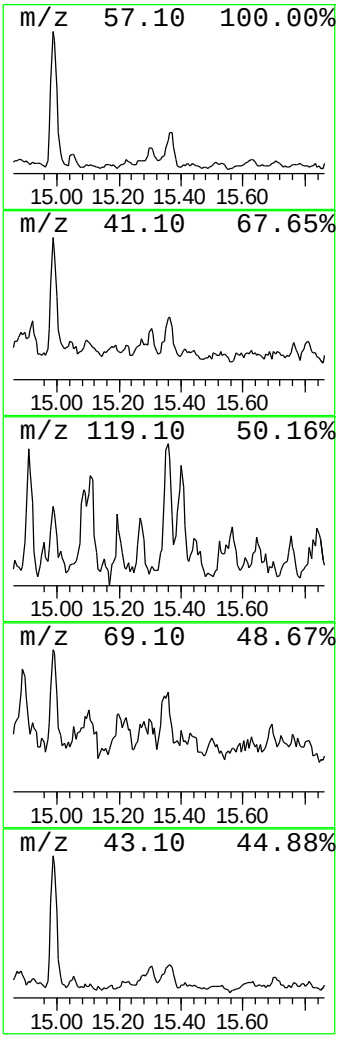
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 60 (DEL) Alkane: Straight-Chai... Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	1.29 ug/L	421991	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracontane, 3,5,24-trimethyl-	605	C43H88	055162-61-3	27
2	1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	25
3	Oxalic acid, allyl undecyl ester	284	C16H28O4	1000309-23-9	22
4	Undecane	156	C11H24	001120-21-4	22
5	Hexadecane, 3-methyl-	240	C17H36	006418-43-5	18





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

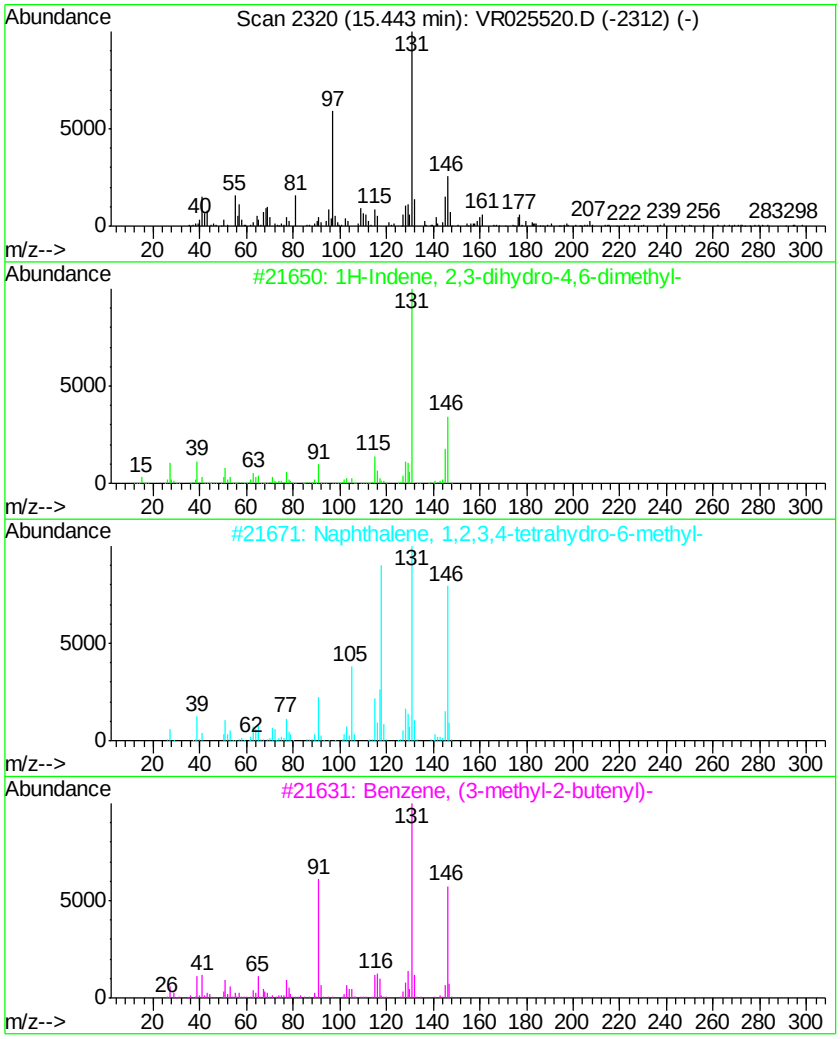
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

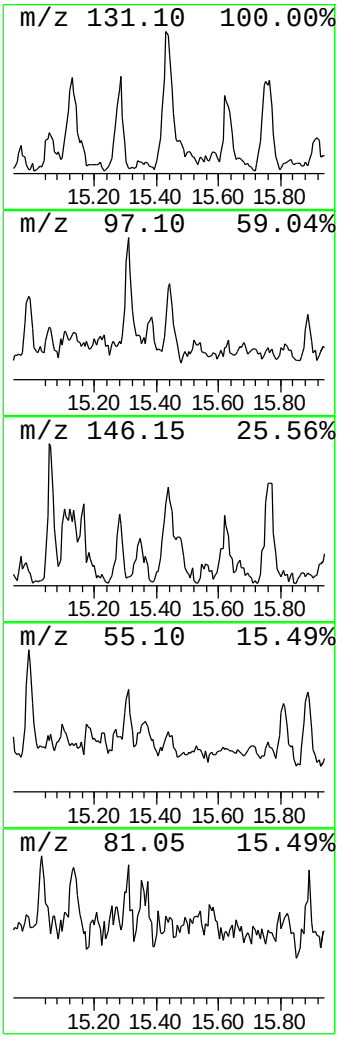
****

Peak Number 61 1H-Indene, 2,3-dihydro-4,6-... Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	0.75 ug/L	246048	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,6-dimet...	146	C11H14	001685-82-1	58
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	47
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	47
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	47
5	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	43





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

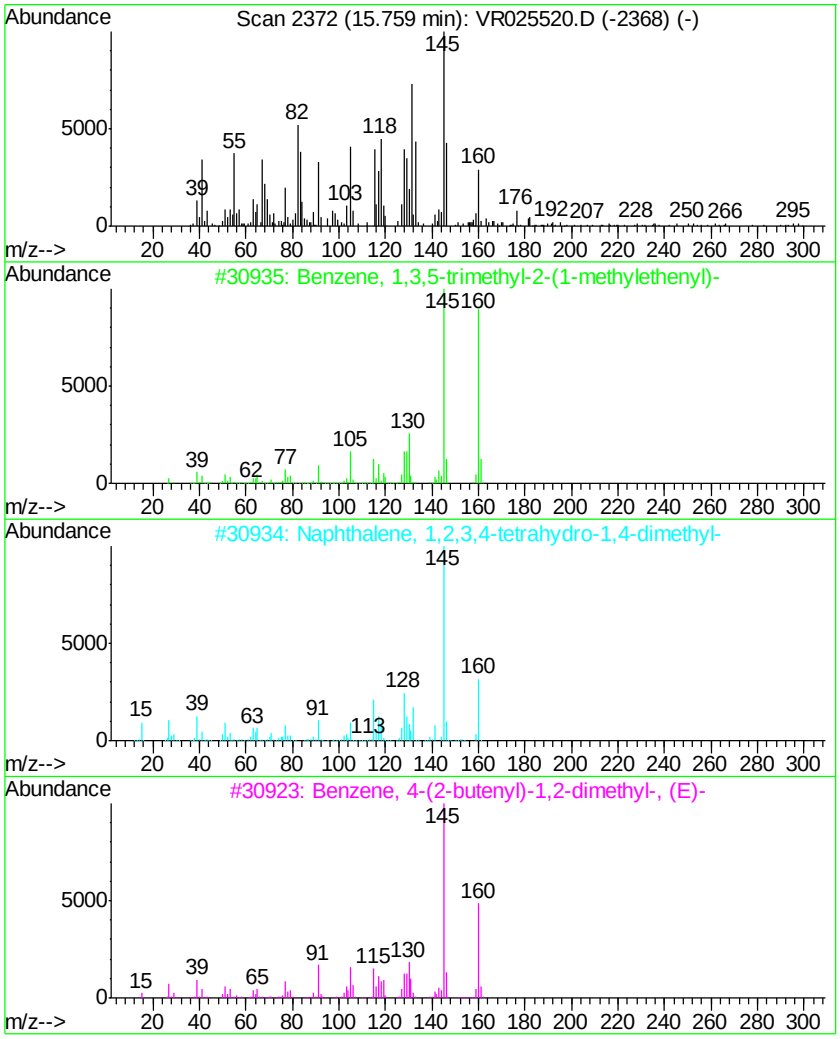
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

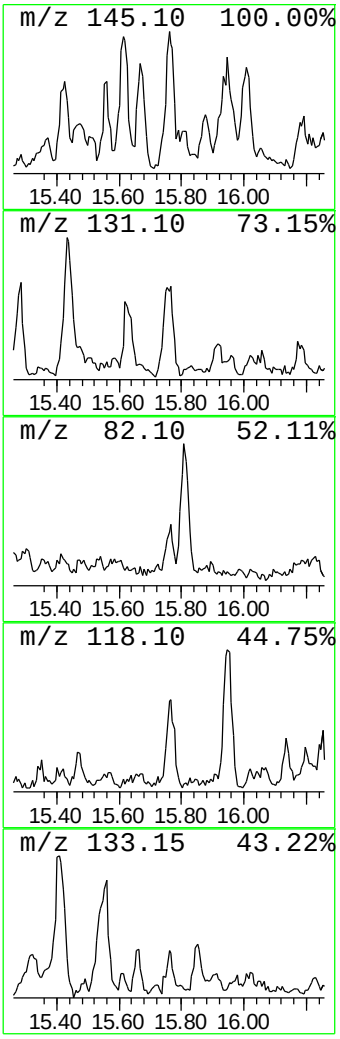
****

Peak Number 62 unknown-07 Concentration Rank 60

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.76	0.67 ug/L	219132	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-trimethyl-2-(1-me...	160	C12H16	014679-13-1	46
2	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	004175-54-6	45
3	Benzene, 4-(2-butenyl)-1,2-dimet...	160	C12H16	054340-86-2	43
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	43
5	1H-Indene, 2,3-dihydro-1,1,3-tri...	160	C12H16	002613-76-5	41





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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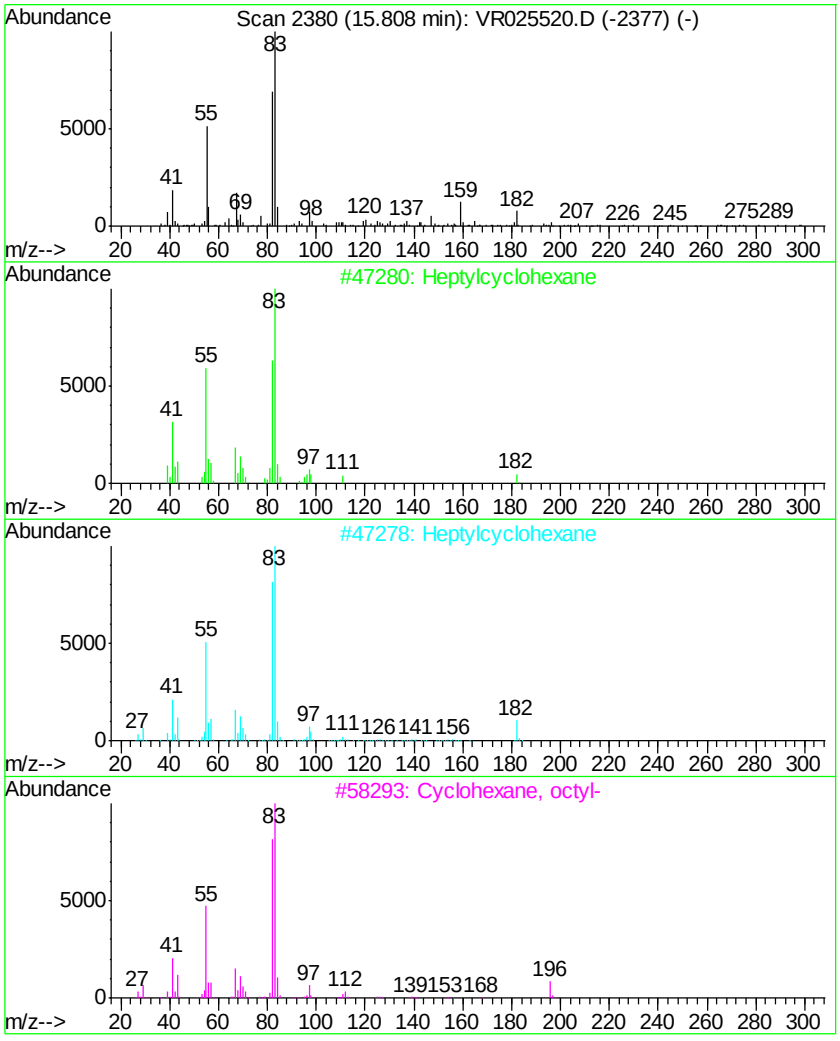
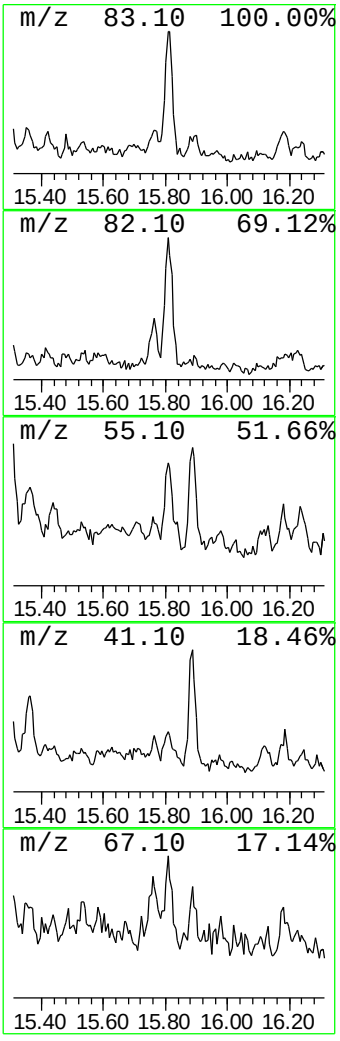
Peak Number 63 (DEL) Alkane: Cyclic15.81 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	0.79 ug/L	258693	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptylcyclohexane	182	C13H26	005617-41-4	80
2	Heptylcyclohexane	182	C13H26	005617-41-4	80
3	Cyclohexane, octyl-	196	C14H28	001795-15-9	80
4	Cyclohexane, hexyl-	168	C12H24	004292-75-5	72
5	Cyclohexane, hexyl-	168	C12H24	004292-75-5	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

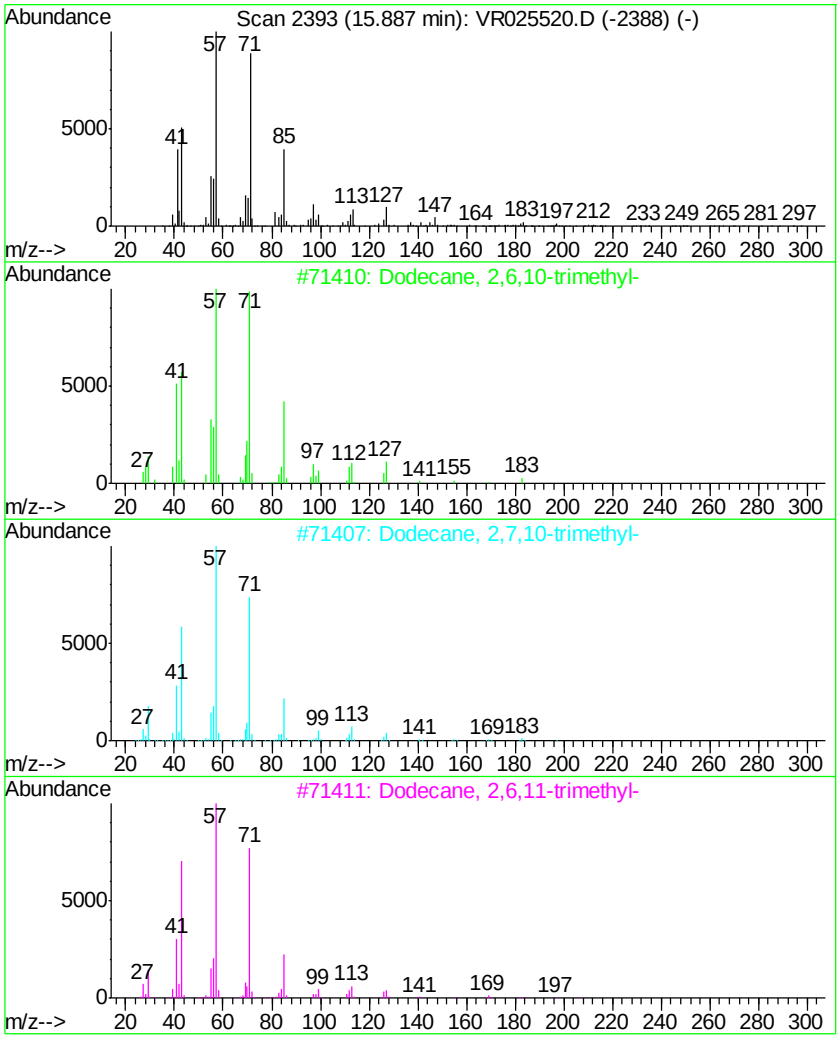
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

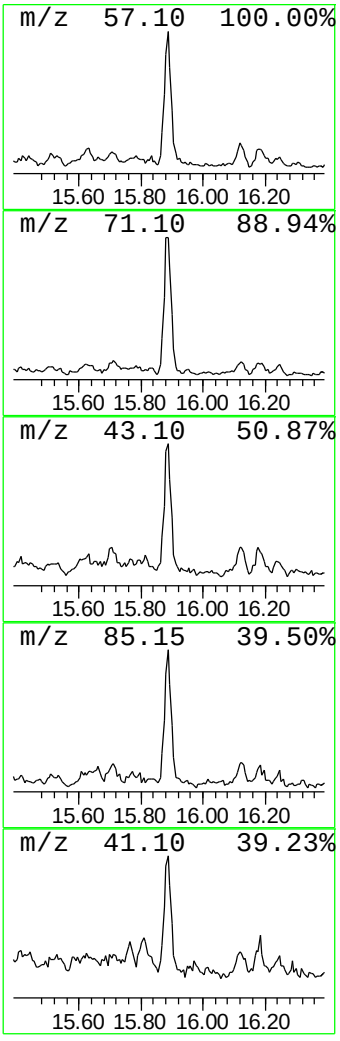
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 64 (DEL) Alkane: Straight-Chai... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	2.14 ug/L	702244	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	90
2	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72
3	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	64
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	59
5	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

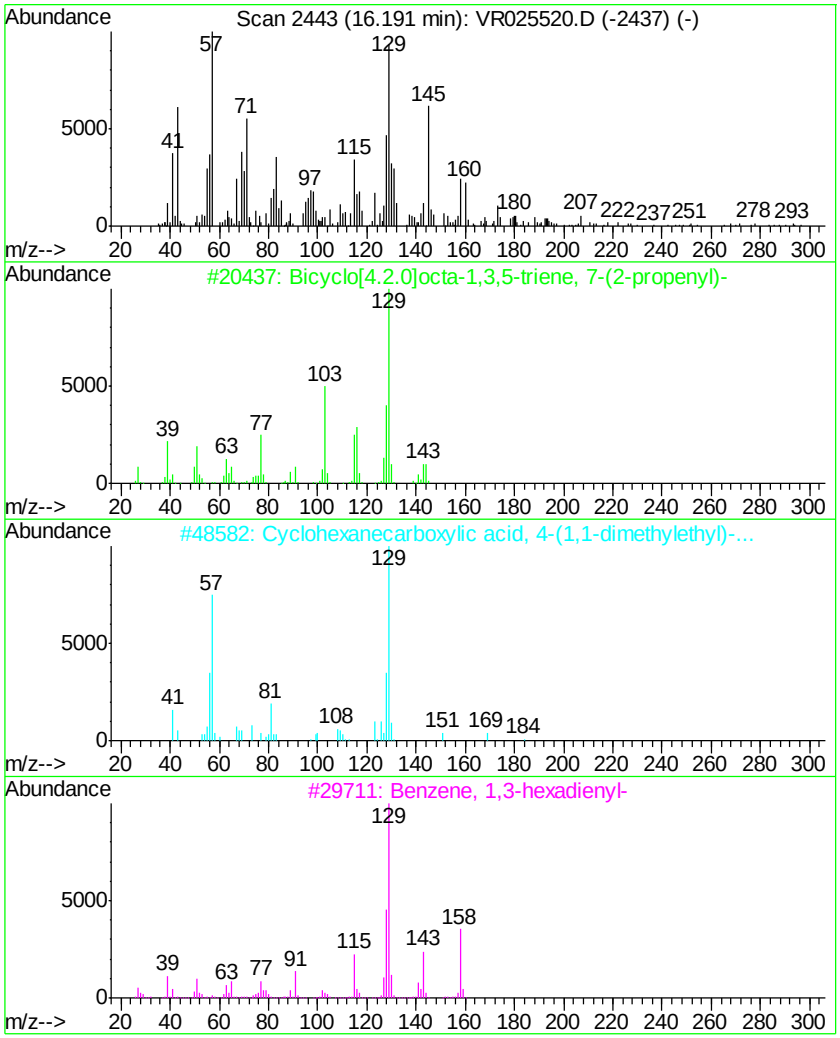
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

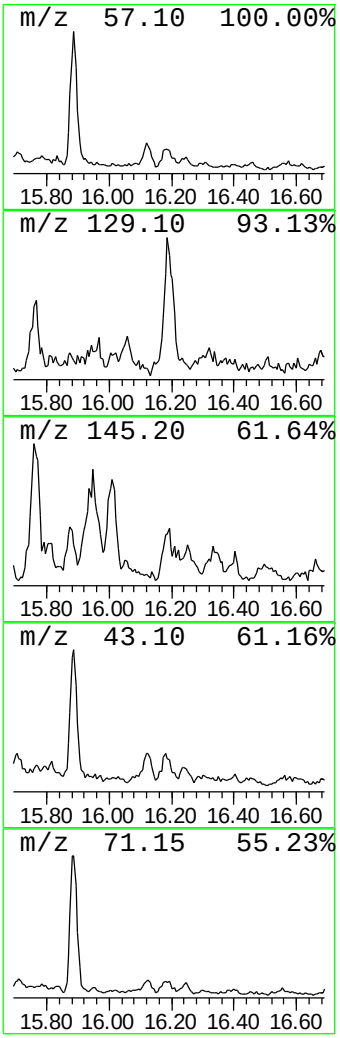
****

Peak Number 65 unknown-08 Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.19	0.88 ug/L	287503	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[4.2.0]octa-1,3,5-triene,...	144	C11H12	071721-26-1	35
2	Cyclohexanecarboxylic acid, 4-(1...	184	C11H20O2	000943-28-2	30
3	Benzene, 1,3-hexadienyl-	158	C12H14	041635-77-2	27
4	Benzonitrile, 4-ethenyl-	129	C9H7N	003435-51-6	27
5	3,3-Dimethyl-5-phenyl-3H-pyrazole	172	C11H12N2	005363-10-0	27





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

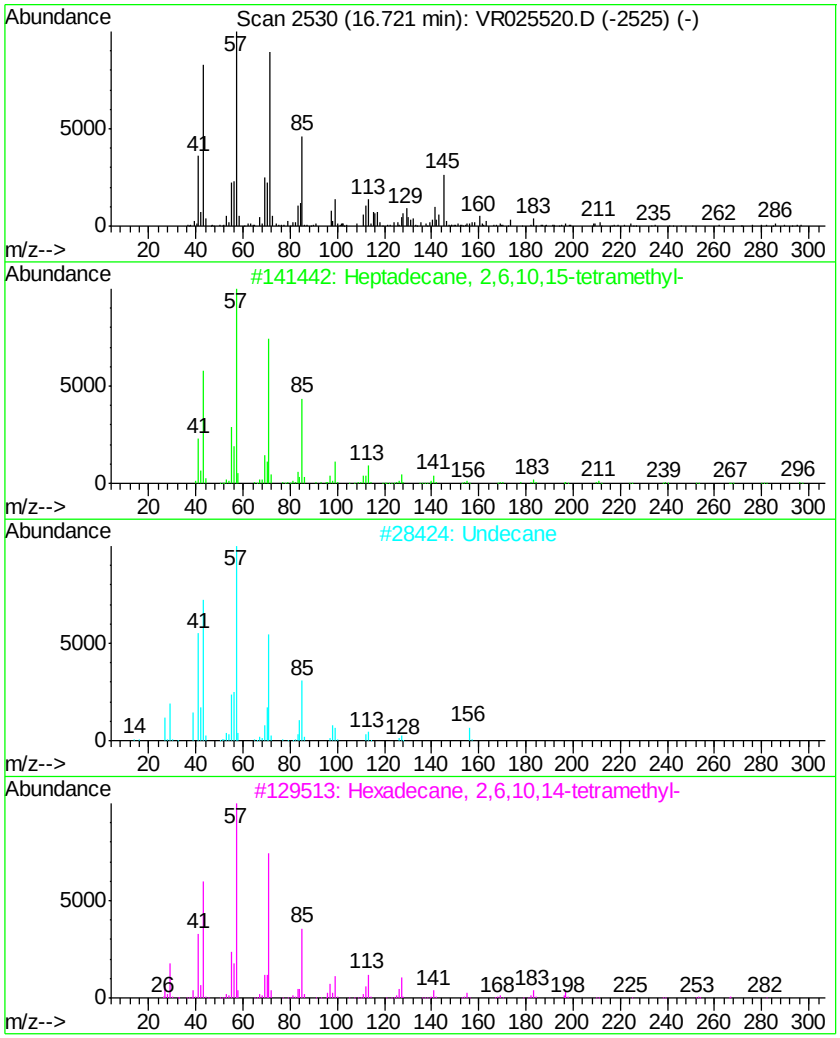
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

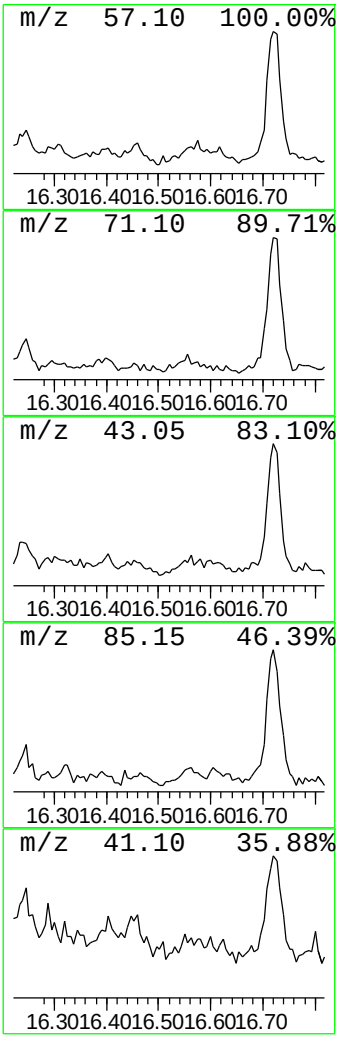
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 66 (DEL) Alkane: Straight-Chai... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.72	1.28 ug/L	418624	1,4-Dichlorobenzene-d4	13.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	93
2	Undecane	156	C11H24	001120-21-4	81
3	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	81
4	Heptadecane, 2,6,10,14-tetramethyl-	296	C21H44	018344-37-1	76
5	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	76





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_R\DATA\VR071918\
Data File : VR025520.D
Acq On : 19 Jul 2018 13:30
Operator : SY/MD
Sample : J4002-03DL 10X
Misc : 25mL/MSVOA_R/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument : MSVOA_R
ClientSampleId : C0AG0DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR070518WMA.M
Quant Title : TRACE VOA SOM01.0

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Str...	4.42	2.8	ug/L	983206	1	8.47	1747200	5.0
(DEL) Alkane: Str...	4.91	4.4	ug/L	1526390	1	8.47	1747200	5.0
(DEL) Alkane: Str...	6.37	4.1	ug/L	1434940	1	8.47	1747200	5.0
(DEL) Alkane: Cyc...	6.48	4.5	ug/L	1579900	1	8.47	1747200	5.0
(DEL) Alkane: Str...	7.61	9.0	ug/L	3159150	1	8.47	1747200	5.0
(DEL) Alkane: Cyc...	8.03	3.0	ug/L	1040220	1	8.47	1747200	5.0
(DEL) Alkane: Str...	8.10	41.5	ug/L	14490000	1	8.47	1747200	5.0
(DEL) Alkane: Cyc...	8.17	2.5	ug/L	891251	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.02	5.9	ug/L	2048160	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.12	3.0	ug/L	1040870	1	8.47	1747200	5.0
(DEL) Alkane: Cyc...	9.24	1.1	ug/L	371710	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.40	23.7	ug/L	8276200	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.54	28.8	ug/L	10065400	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.72	1.9	ug/L	669041	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.78	0.6	ug/L	214594	1	8.47	1747200	5.0
(DEL) Alkane: Str...	9.91	6.5	ug/L	3048000	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	10.14	1.2	ug/L	557680	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	10.31	2.0	ug/L	923985	2	11.29	2328770	5.0
(DEL) Alkane: Str...	10.43	2.1	ug/L	993073	2	11.29	2328770	5.0
(DEL) Alkane: Str...	10.70	0.6	ug/L	289991	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	10.83	1.0	ug/L	451362	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	10.89	0.9	ug/L	409630	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	11.09	0.6	ug/L	292676	2	11.29	2328770	5.0
Pentalene, octahy...	11.37	1.4	ug/L	643344	2	11.29	2328770	5.0
unknown-01	11.54	1.5	ug/L	707584	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	11.81	0.7	ug/L	342612	2	11.29	2328770	5.0
Cyclohexanecarbox...	12.00	0.6	ug/L	263557	2	11.29	2328770	5.0
(DEL) Alkane: Cyc...	12.04	0.5	ug/L	241342	2	11.29	2328770	5.0
(DEL) Alkane: Str...	12.27	2.8	ug/L	905849	3	13.22	1640260	5.0
(DEL) Alkane: Cyc...	12.44	1.5	ug/L	498477	3	13.22	1640260	5.0
Benzene, propyl-	12.47	1.3	ug/L	419873	3	13.22	1640260	5.0
(DEL) Alkane: Cyc...	12.61	1.9	ug/L	636809	3	13.22	1640260	5.0
(DEL) Alkane: Str...	12.85	2.6	ug/L	870204	3	13.22	1640260	5.0
(DEL) Alkane: Str...	12.87	1.0	ug/L	326285	3	13.22	1640260	5.0
(DEL) Alkane: Str...	12.97	0.9	ug/L	310906	3	13.22	1640260	5.0
unknown-02	13.03	0.7	ug/L	233843	3	13.22	1640260	5.0
Benzene, (1-methy...	13.05	0.8	ug/L	268811	3	13.22	1640260	5.0
(DEL) Alkane: Cyc...	13.12	0.7	ug/L	219161	3	13.22	1640260	5.0
(DEL) Alkane: Str...	13.28	0.7	ug/L	231347	3	13.22	1640260	5.0
Benzene, 1,2-diet...	13.39	1.0	ug/L	340413	3	13.22	1640260	5.0
1H-Indene-5-carbo...	13.42	1.9	ug/L	610035	3	13.22	1640260	5.0
(DEL) Alkane: Str...	13.72	1.2	ug/L	394224	3	13.22	1640260	5.0
o-Cymene	13.76	2.2	ug/L	728923	3	13.22	1640260	5.0
unknown-03	13.82	1.1	ug/L	350782	3	13.22	1640260	5.0
Benzene, 2-butenyl-	13.87	2.2	ug/L	721800	3	13.22	1640260	5.0
(DEL) Alkane: Str...	13.94	1.0	ug/L	334325	3	13.22	1640260	5.0
unknown-04	14.06	4.0	ug/L	1327910	3	13.22	1640260	5.0
Benzene, 1,2,3,4-...	14.09	1.6	ug/L	533782	3	13.22	1640260	5.0
Benzene, (1-methy...	14.46	3.4	ug/L	1106030	3	13.22	1640260	5.0

(DEL) Alkane: Str...	14.52	3.8 ug/L	1247130	3	13.22	1640260	5.0
Sulfurous acid, c...	14.60	0.7 ug/L	230246	3	13.22	1640260	5.0
6-Methyl-4-indanol	14.73	0.7 ug/L	217273	3	13.22	1640260	5.0
1H-Indene, 2,3-di...	14.83	1.0 ug/L	322834	3	13.22	1640260	5.0
unknown-05	14.92	0.9 ug/L	292008	3	13.22	1640260	5.0
Sulfurous acid, 2...	14.99	2.5 ug/L	832150	3	13.22	1640260	5.0
unknown-06	15.10	0.9 ug/L	287363	3	13.22	1640260	5.0
(DEL) Alkane: Cyc...	15.30	0.7 ug/L	229494	3	13.22	1640260	5.0
(DEL) Alkane: Str...	15.36	1.3 ug/L	421991	3	13.22	1640260	5.0
1H-Indene, 2,3-di...	15.44	0.8 ug/L	246048	3	13.22	1640260	5.0
unknown-07	15.76	0.7 ug/L	219132	3	13.22	1640260	5.0
(DEL) Alkane: Cyc...	15.81	0.8 ug/L	258693	3	13.22	1640260	5.0
(DEL) Alkane: Str...	15.89	2.1 ug/L	702244	3	13.22	1640260	5.0
unknown-08	16.19	0.9 ug/L	287503	3	13.22	1640260	5.0
(DEL) Alkane: Str...	16.72	1.3 ug/L	418624	3	13.22	1640260	5.0

Instrument :
MSVOA_R
ClientSampleId :
C0AG0DL