

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW052219\
 Data File : VW010512.D
 Acq On : 22 May 2019 16:04
 Operator : SY/VA
 Sample : K3002-05
 Misc : 5.09G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 23-C3-20190399

Integration Parameters: RTEINT.P

Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Title : SW846 8260

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.654	117	123	129	rBV6	3294	7147	1.13%	0.134%
2	4.909	485	493	503	rVB3	2838	8077	1.28%	0.151%
3	5.940	652	662	676	rVB4	5108	16017	2.53%	0.300%
4	7.884	971	981	986	rBV	89557	207683	32.79%	3.891%
5	7.945	986	991	1003	rVB	148319	326523	51.55%	6.118%
6	8.305	1040	1050	1063	rVB2	84081	185340	29.26%	3.473%
7	8.842	1129	1138	1151	rBV	226833	447337	70.62%	8.382%
8	10.323	1373	1381	1390	rBV	356419	633441	100.00%	11.869%
9	10.506	1403	1411	1418	rVB3	8188	14626	2.31%	0.274%
10	11.177	1513	1521	1525	rBV	6171	9997	1.58%	0.187%
11	11.231	1525	1530	1535	rVB	13004	21133	3.34%	0.396%
12	11.414	1551	1560	1561	rBV	7750	13230	2.09%	0.248%
13	11.512	1571	1576	1580	rBV2	7294	11376	1.80%	0.213%
14	11.634	1589	1596	1607	rBV	281634	493804	77.96%	9.252%
15	11.841	1621	1630	1634	rBV3	40555	78163	12.34%	1.465%
16	11.914	1640	1642	1648	rVB2	8210	11577	1.83%	0.217%
17	12.140	1671	1679	1690	rBV6	21419	68368	10.79%	1.281%
18	12.250	1690	1697	1702	rVB2	17384	31942	5.04%	0.598%
19	12.365	1702	1716	1717	rBV4	24837	75242	11.88%	1.410%
20	12.542	1736	1745	1748	rVV4	14233	29890	4.72%	0.560%
21	12.567	1748	1749	1752	rVB2	12309	10133	1.60%	0.190%
22	12.621	1752	1758	1767	rBV	225069	386428	61.00%	7.240%
23	12.780	1779	1784	1791	rVB3	49076	93229	14.72%	1.747%
24	12.865	1791	1798	1802	rBV4	26952	56069	8.85%	1.051%
25	12.932	1802	1809	1816	rBV2	155772	285592	45.09%	5.351%
26	13.085	1829	1834	1837	rVV3	20580	36439	5.75%	0.683%
27	13.127	1838	1841	1843	rVV2	15038	22535	3.56%	0.422%
28	13.170	1843	1848	1856	rVV2	59538	109313	17.26%	2.048%
29	13.255	1857	1862	1866	rVV	55799	92396	14.59%	1.731%
30	13.292	1866	1868	1872	rVV2	12507	17561	2.77%	0.329%
31	13.341	1873	1876	1880	rVV5	11302	17849	2.82%	0.334%
32	13.383	1880	1883	1886	rVB3	10661	11879	1.88%	0.223%
33	13.451	1886	1894	1897	rBV5	44146	91657	14.47%	1.717%
34	13.487	1897	1900	1904	rVV3	24630	37416	5.91%	0.701%

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35	13.524	1904	1906	1907	rVV	11068	11113	1.75%	0.208%
36	13.560	1907	1912	1920	rVV2	260391	463231	73.13%	8.680%
37	13.627	1920	1923	1928	rVB3	17877	23708	3.74%	0.444%
38	13.701	1929	1935	1939	rBV4	16348	29182	4.61%	0.547%
39	13.755	1939	1944	1946	rBV2	12807	19017	3.00%	0.356%
40	13.792	1946	1950	1958	rVB2	24406	41475	6.55%	0.777%
41	13.877	1958	1964	1969	rBV2	168198	257840	40.70%	4.831%
42	13.920	1969	1971	1975	rVB2	6573	7480	1.18%	0.140%
43	14.011	1983	1986	1990	rBV2	12768	18905	2.98%	0.354%
44	14.097	1997	2000	2005	rVB	19983	29177	4.61%	0.547%
45	14.207	2013	2018	2023	rVV2	22391	36053	5.69%	0.676%
46	14.261	2023	2027	2035	rVB6	7776	18701	2.95%	0.350%
47	14.347	2035	2041	2044	rBV5	12553	26508	4.18%	0.497%
48	14.389	2044	2048	2051	rVV3	25177	43649	6.89%	0.818%
49	14.426	2051	2054	2057	rVV2	17226	30666	4.84%	0.575%
50	14.463	2057	2060	2064	rVV	24338	34023	5.37%	0.637%
51	14.505	2064	2067	2070	rVV2	8962	11739	1.85%	0.220%
52	14.548	2070	2074	2081	rVB6	18387	31580	4.99%	0.592%
53	14.694	2094	2098	2100	rVV3	5296	8098	1.28%	0.152%
54	14.731	2100	2104	2110	rVV2	18988	30373	4.79%	0.569%
55	14.798	2110	2115	2122	rVV3	34622	71415	11.27%	1.338%
56	14.859	2123	2125	2131	rVB5	5927	8760	1.38%	0.164%
57	14.962	2137	2142	2148	rBV	13684	23507	3.71%	0.440%
58	15.072	2155	2160	2163	rBV6	5271	9314	1.47%	0.175%
59	15.182	2172	2178	2184	rVB2	7260	16433	2.59%	0.308%
60	15.371	2205	2209	2214	rVB2	5912	9413	1.49%	0.176%
61	15.438	2214	2220	2225	rBV7	5040	11895	1.88%	0.223%
62	15.871	2287	2291	2300	rVB10	5561	11128	1.76%	0.209%
63	16.188	2337	2343	2349	rBV7	3962	8688	1.37%	0.163%
64	16.383	2368	2375	2380	rBV7	3596	7207	1.14%	0.135%
65	16.450	2380	2386	2391	rBV3	3590	7017	1.11%	0.131%
66	16.657	2412	2420	2427	rBV2	7618	20338	3.21%	0.381%

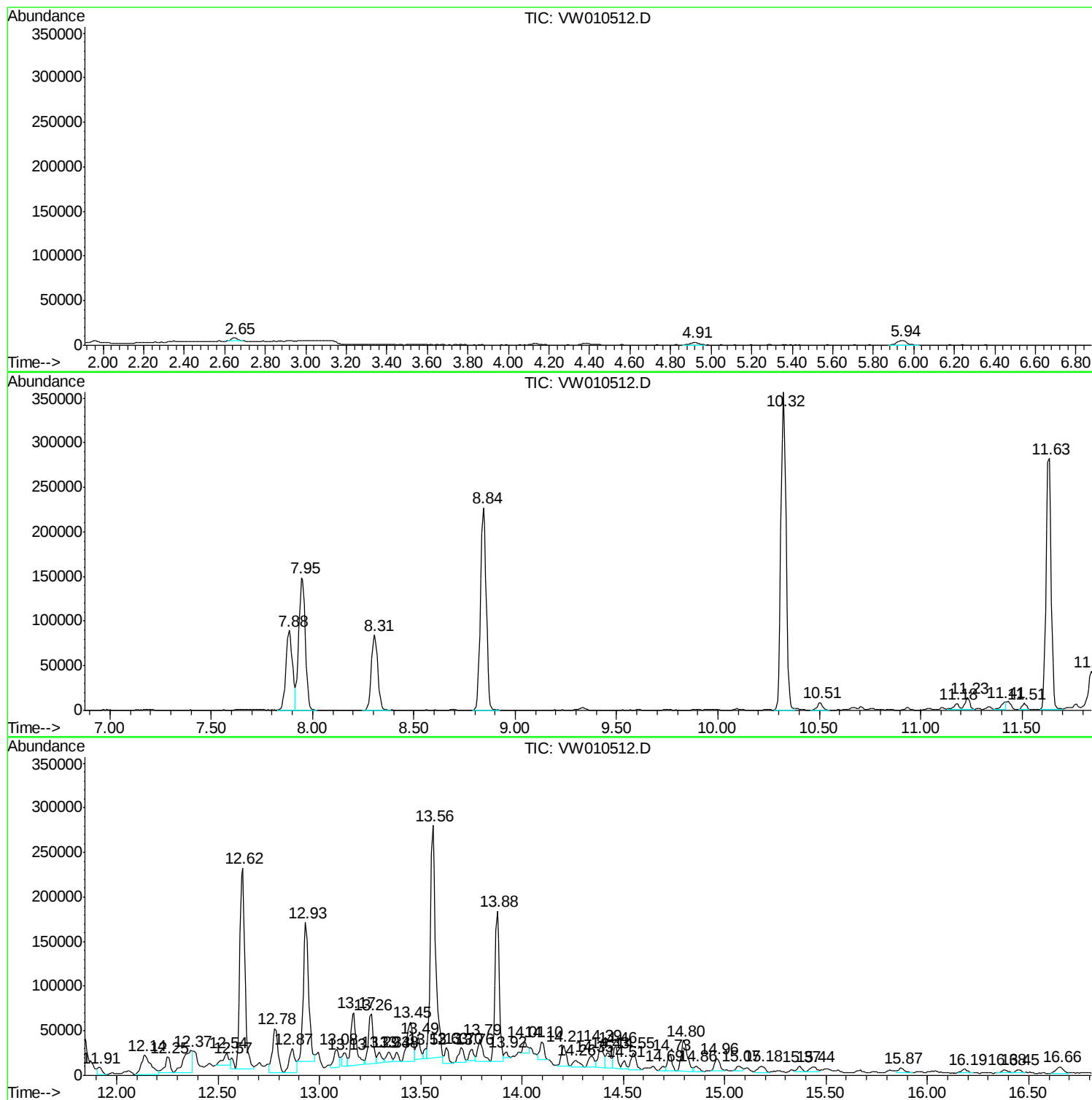
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Instrument :
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ClientSampleId :
23-C3-20190399

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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



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Misc : 5.09G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

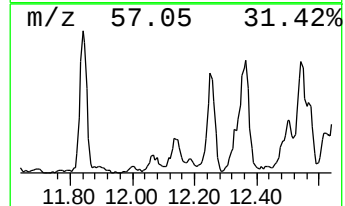
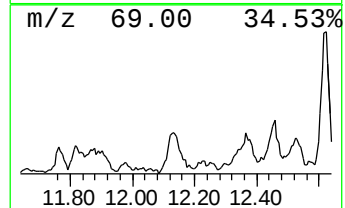
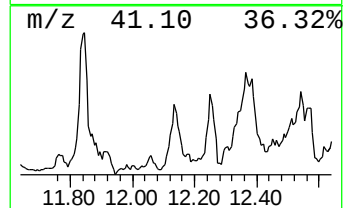
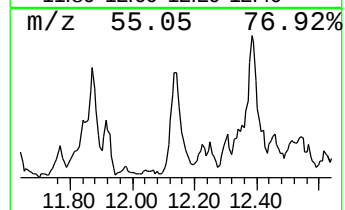
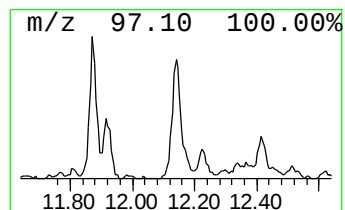
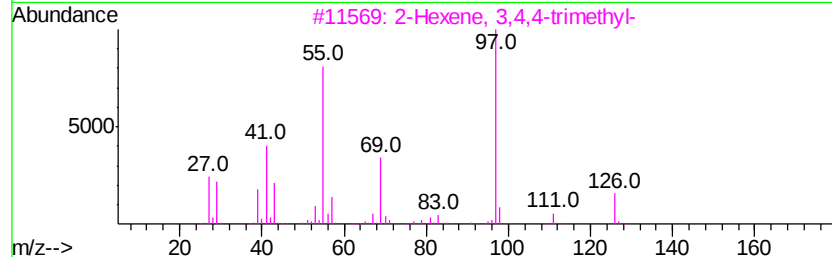
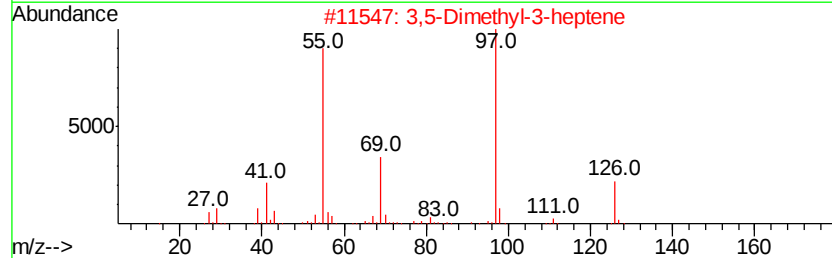
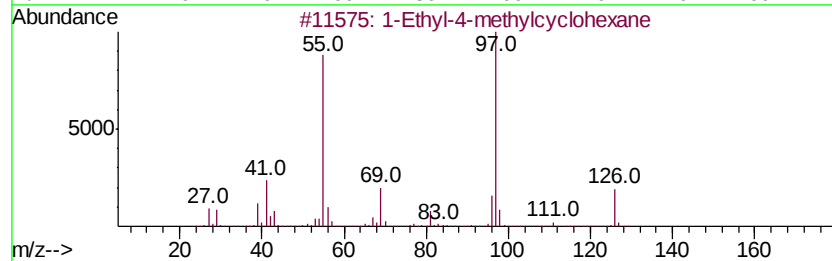
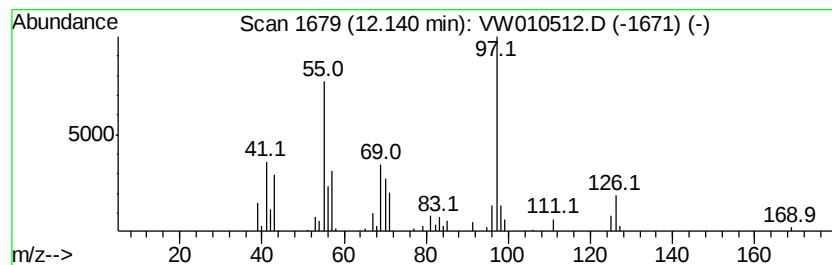
Instrument :
MSVOA_W
ClientSampleId :
23-C3-20190399

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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

Peak Number 1 1-Ethyl-4-methylcyclohexane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.14	6.92 ug/l	68368	Chlorobenzene-d5	11.63	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Ethyl-4-methylcyclohexane	126	C9H18	003728-56-1	58
2	3,5-Dimethyl-3-heptene	126	C9H18	059643-68-4	52
3	2-Hexene, 3,4,4-trimethyl-	126	C9H18	053941-19-8	52
4	cis-1-Ethyl-3-methyl-cyclohexane	126	C9H18	019489-10-2	52
5	1-Ethyl-3-methylcyclohexane (c,t)	126	C9H18	003728-55-0	52



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ALS Vial : 14 Sample Multiplier: 1

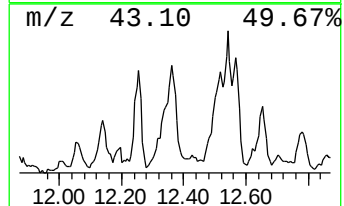
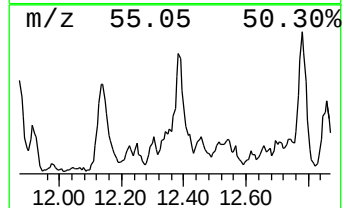
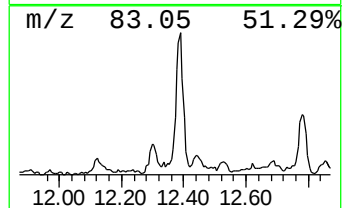
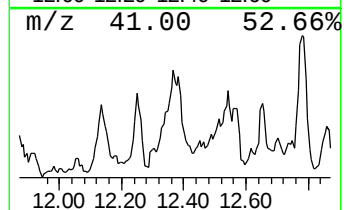
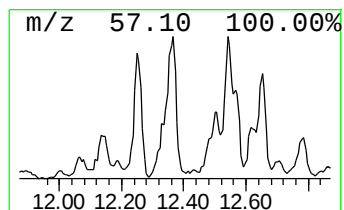
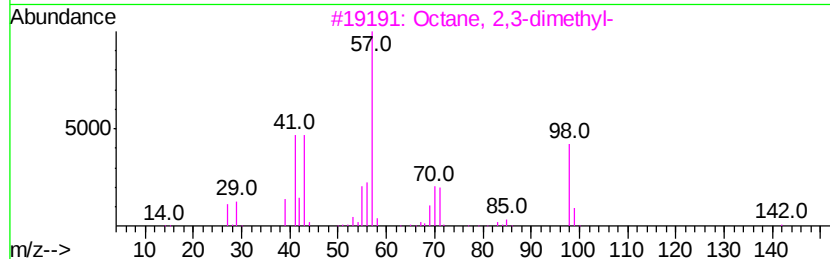
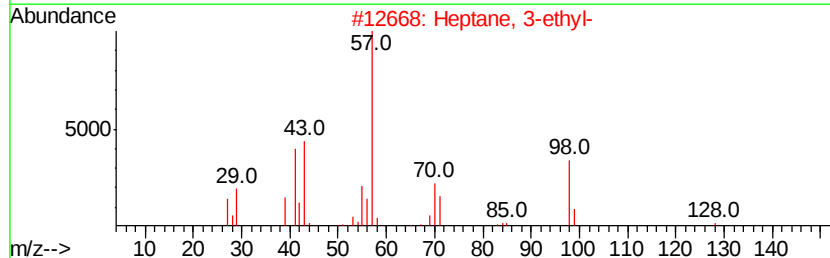
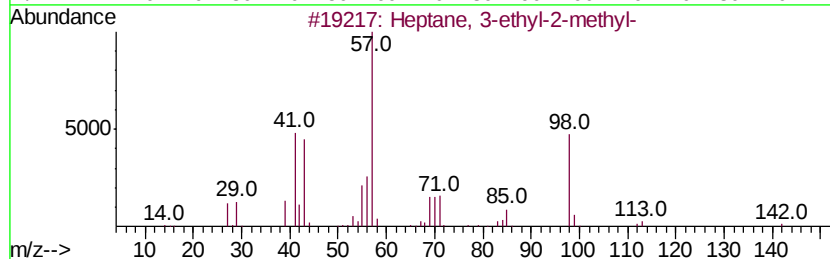
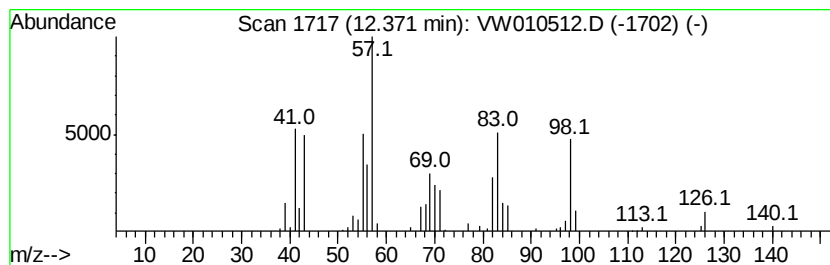
Instrument :
MSVOA_W
ClientSampleId :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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

Peak Number 2 Heptane, 3-ethyl-2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.37	7.62 ug/l	75242	Chlorobenzene-d5	11.63		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	64	
2	Heptane, 3-ethyl-	128	C9H20	015869-80-4	53	
3	Octane, 2,3-dimethyl-	142	C10H22	007146-60-3	50	
4	3-Undecene, 6-methyl-, (E)-	168	C12H24	074630-52-7	43	
5	Decane, 2,6,7-trimethyl-	184	C13H28	062108-25-2	37	



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ALS Vial : 14 Sample Multiplier: 1

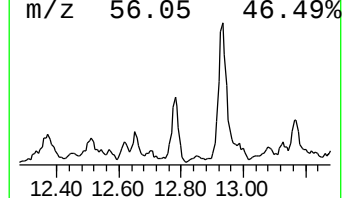
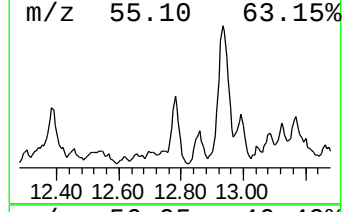
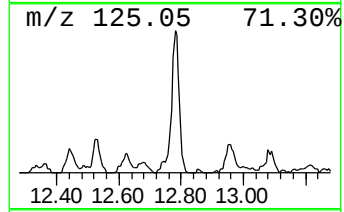
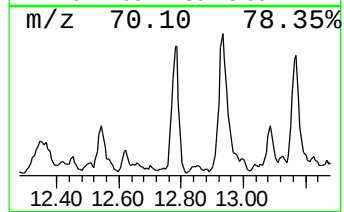
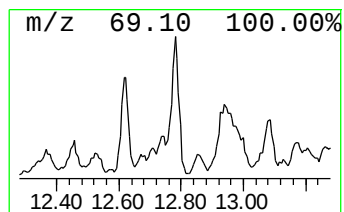
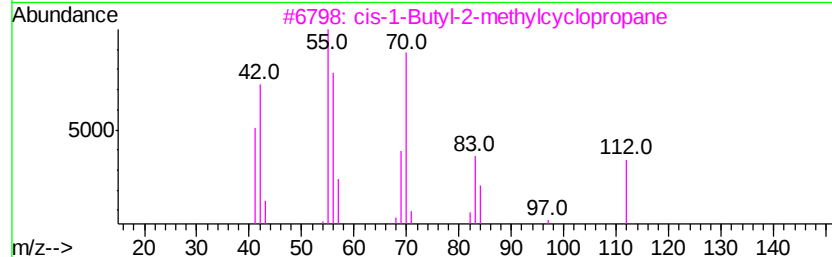
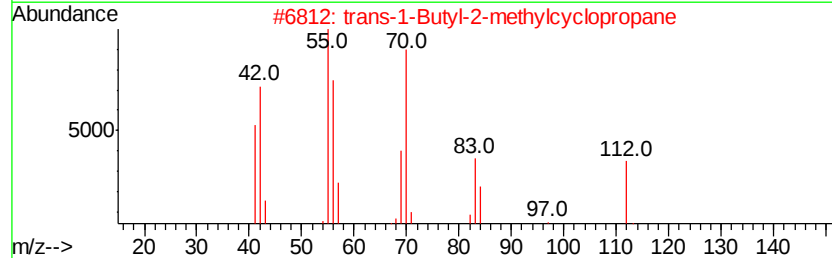
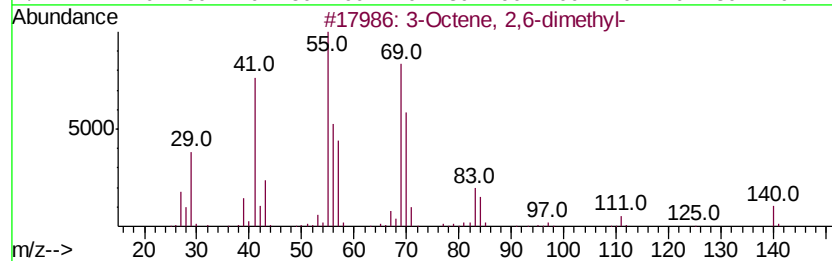
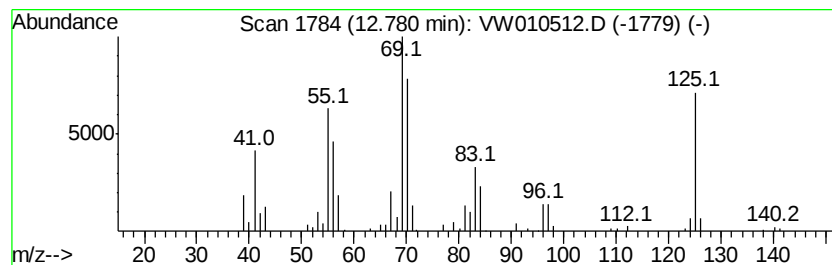
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Quant Title : SW846 8260

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

Peak Number 3 3-Octene, 2,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.78	10.06 ug/l	93229	1,4-Dichlorobenzene-d4	13.56		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Octene, 2,6-dimethyl-	140	C10H20	006874-28-8	59	
2	trans-1-Butyl-2-methylcyclopropane	112	C8H16	038851-70-6	50	
3	cis-1-Butyl-2-methylcyclopropane	112	C8H16	038851-69-3	50	
4	2-Octene, 2,6-dimethyl-	140	C10H20	004057-42-5	50	
5	Cyclohexane, 1,1,4,4-tetramethyl-	140	C10H20	002223-52-1	46	



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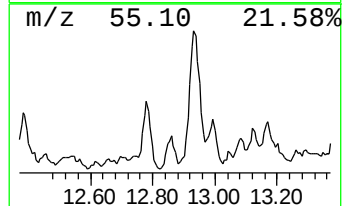
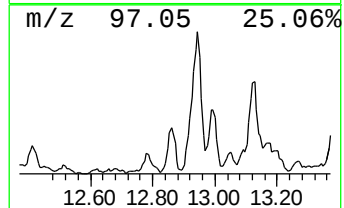
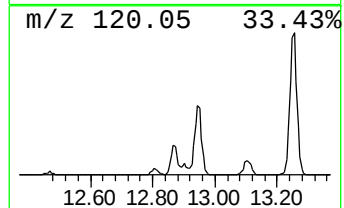
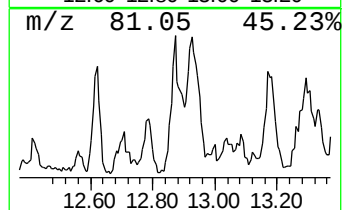
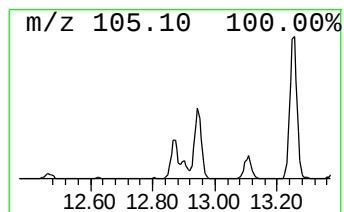
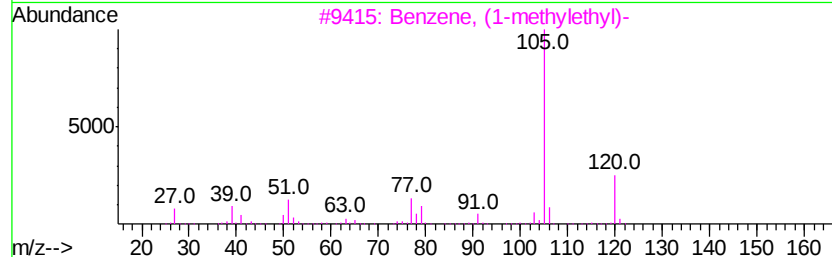
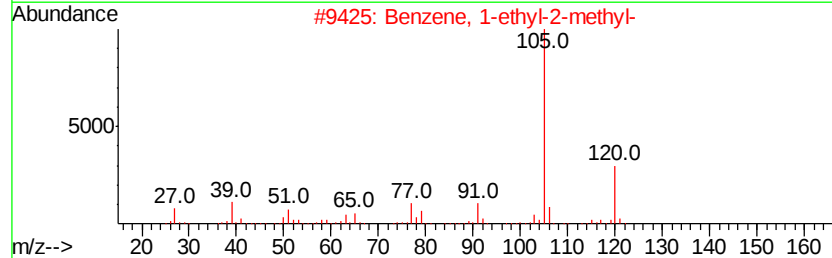
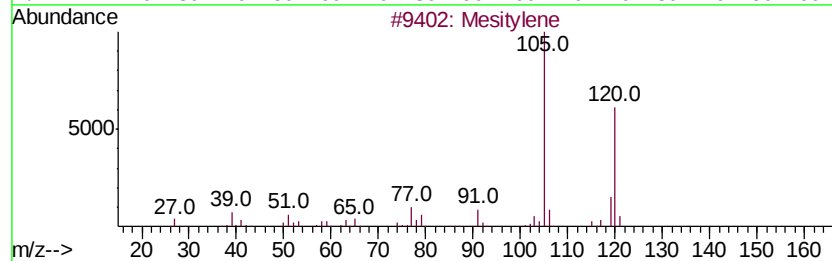
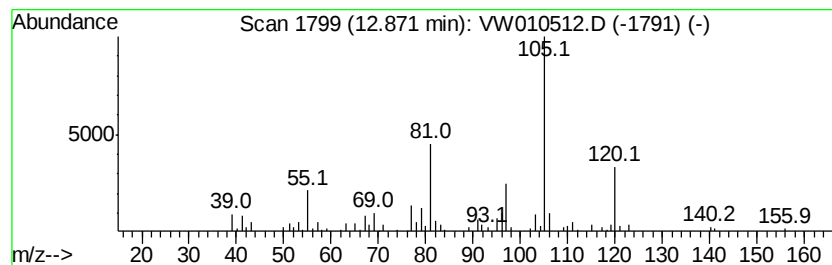
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 4 Mesitylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.87	6.05 ug/l	56069	1,4-Dichlorobenzene-d4	13.56

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Mesitylene	120	C9H12	000108-67-8	50
2		Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	50
3		Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	46
4		Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	45
5		Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	45



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Acq On : 22 May 2019 16:04
Operator : SY/VA
Sample : K3002-05
Misc : 5.09G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
23-C3-20190399

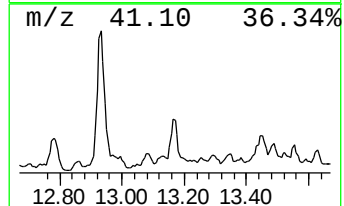
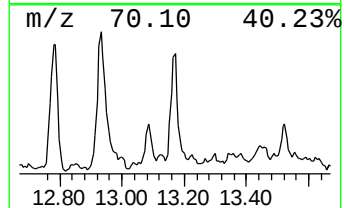
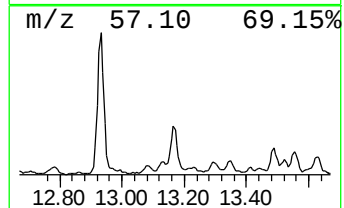
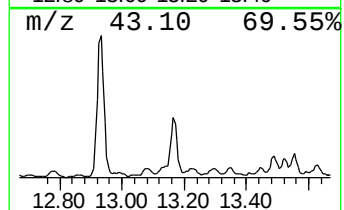
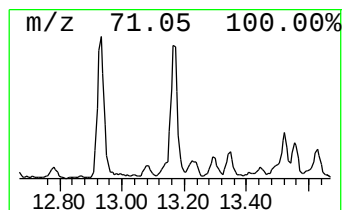
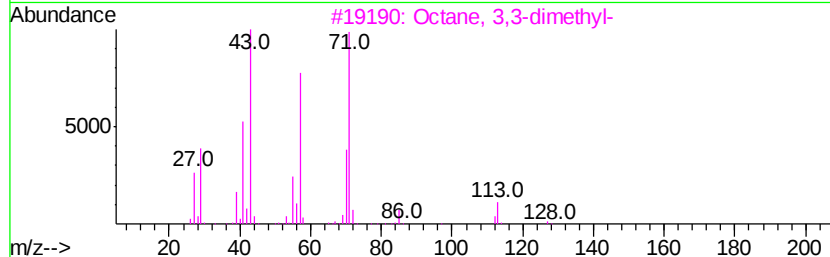
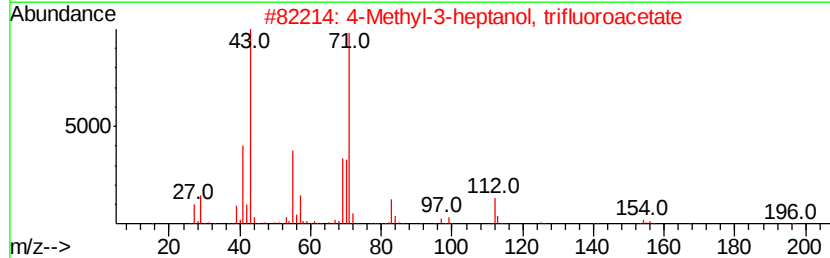
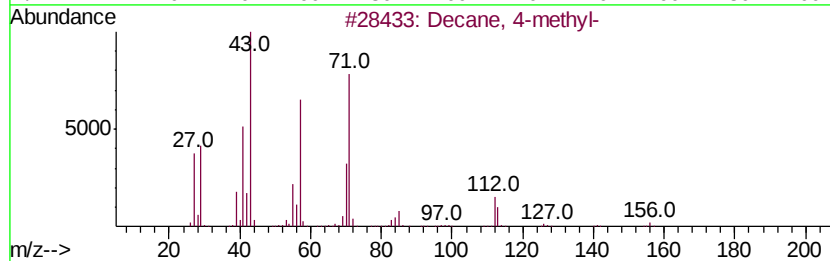
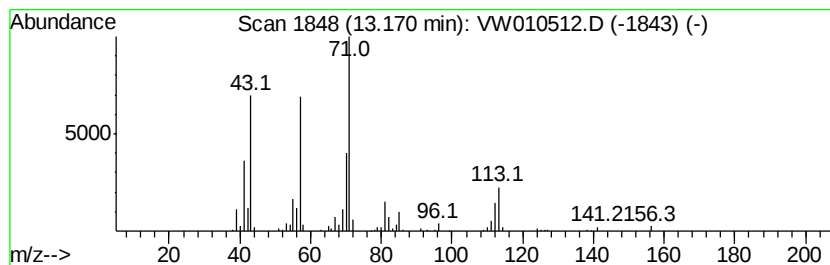
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Quant Title : SW846 8260

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

Peak Number 5 Decane, 4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	11.80 ug/l	109313	1,4-Dichlorobenzene-d4	13.56

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 4-methyl-		156	C11H24	002847-72-5	80
2	4-Methyl-3-heptanol, trifluoroac...		226	C10H17F3O2	1000365-51-8	59
3	Octane, 3,3-dimethyl-		142	C10H22	004110-44-5	59
4	Sulfurous acid, 2-ethylhexyl pen...		264	C13H28O3S	1000309-18-9	53
5	2-Hexene, 1-methoxy-, (E)-		114	C7H14O	056052-83-6	45



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052219\
Data File : VW010512.D
Acq On : 22 May 2019 16:04
Operator : SY/VA
Sample : K3002-05
Misc : 5.09G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

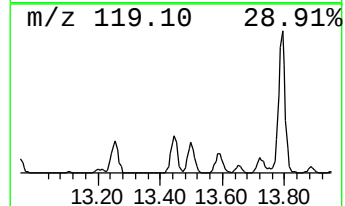
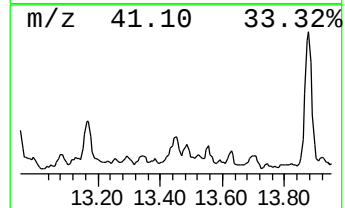
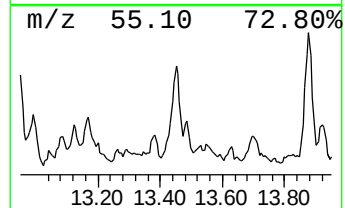
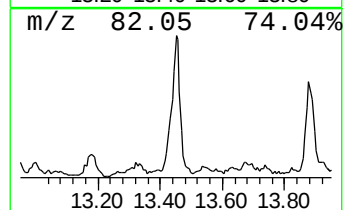
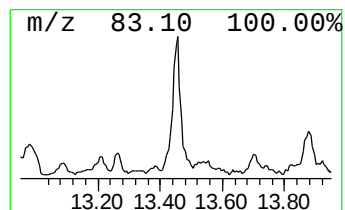
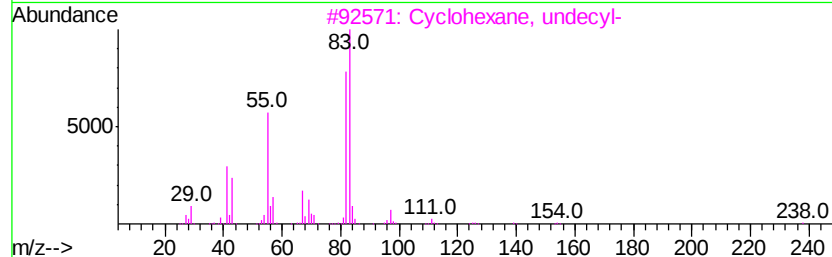
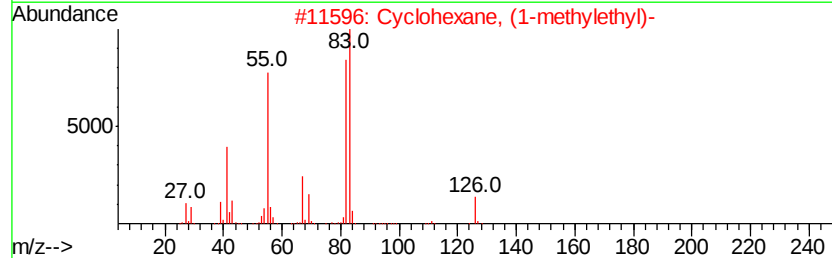
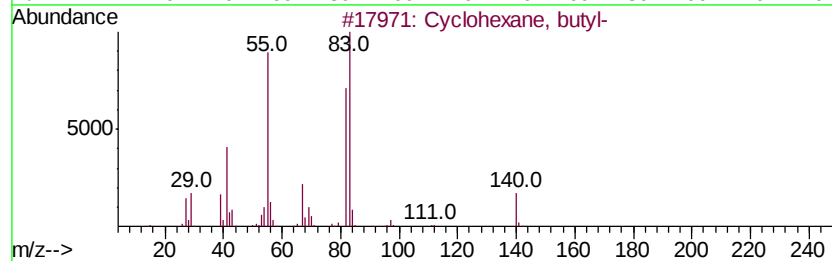
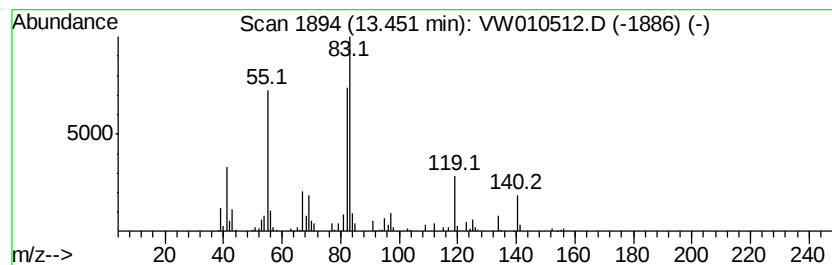
Instrument :
MSVOA_W
ClientSampleId :
23-C3-20190399

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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

Peak Number 6 Cyclohexane, butyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.45	9.89 ug/l	91657	1,4-Dichlorobenzene-d4	13.56
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Cyclohexane, butyl-	140 C10H20	001678-93-9 87
2		Cyclohexane, (1-methylethyl)-	126 C9H18	000696-29-7 76
3		Cyclohexane, undecyl-	238 C17H34	054105-66-7 72
4		Cyclohexane, (2-methylpropyl)-	140 C10H20	001678-98-4 72
5		Cyclohexane, pentyl-	154 C11H22	004292-92-6 64



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052219\
Data File : VW010512.D
Acq On : 22 May 2019 16:04
Operator : SY/VA
Sample : K3002-05
Misc : 5.09G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

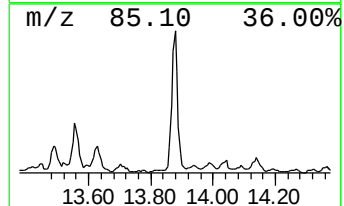
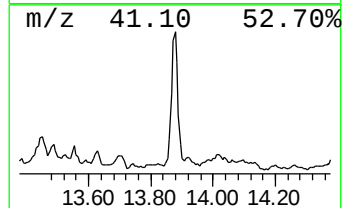
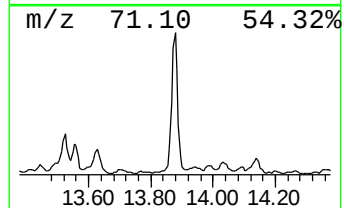
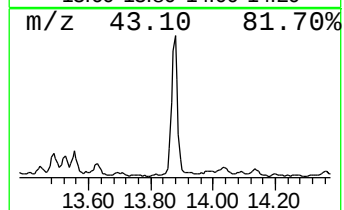
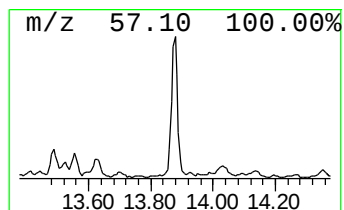
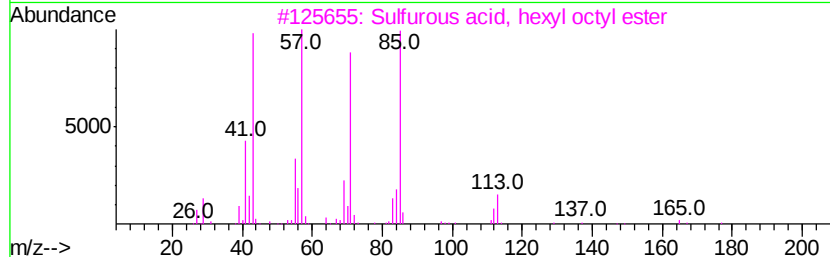
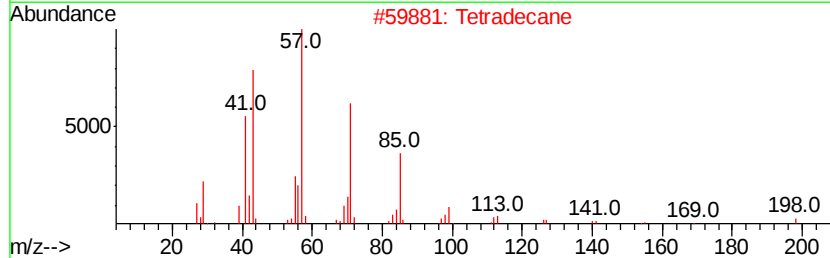
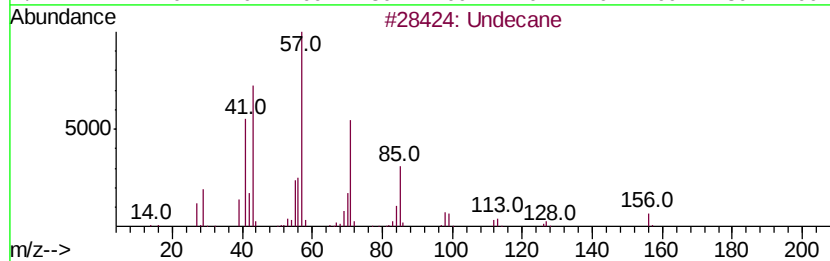
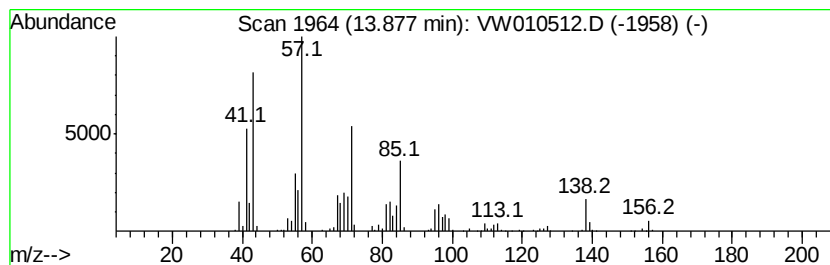
Instrument :
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ClientSampleId :
23-C3-20190399

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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

Peak Number 7 Undecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.88	27.83 ug/l	257840	1,4-Dichlorobenzene-d4	13.56
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Undecane	156 C11H24	001120-21-4	96
2	Tetradecane	198 C14H30	000629-59-4	58
3	Sulfurous acid, hexyl octyl ester	278 C14H30O3S	1000309-13-0	50
4	Decane	142 C10H22	000124-18-5	47
5	Sulfurous acid, 2-ethylhexyl iso...	278 C14H30O3S	1000309-19-0	47



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW052219\
Data File : VW010512.D
Acq On : 22 May 2019 16:04
Operator : SY/VA
Sample : K3002-05
Misc : 5.09G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

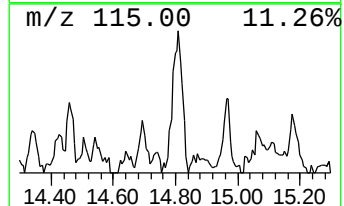
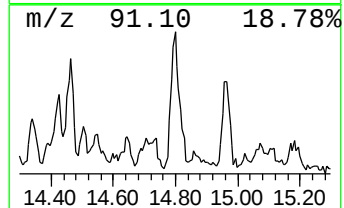
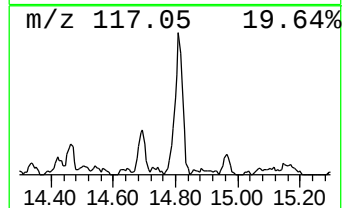
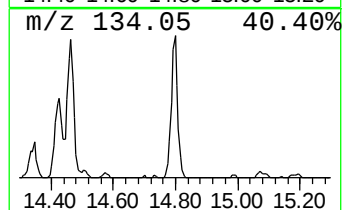
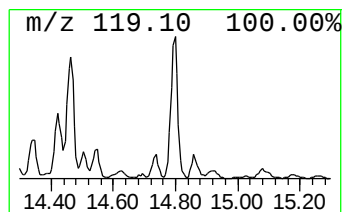
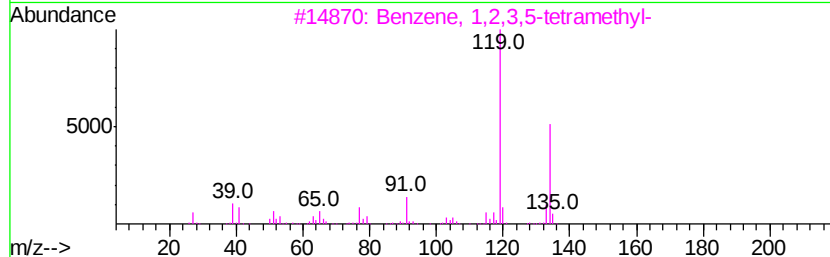
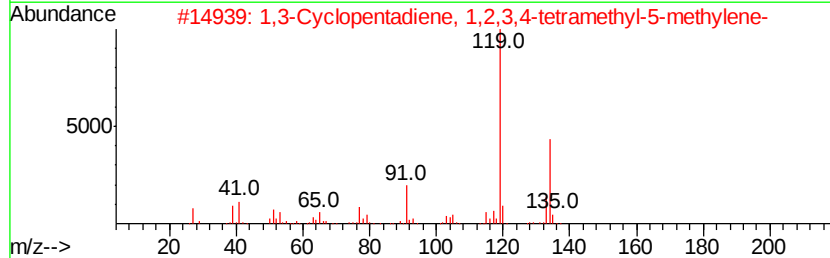
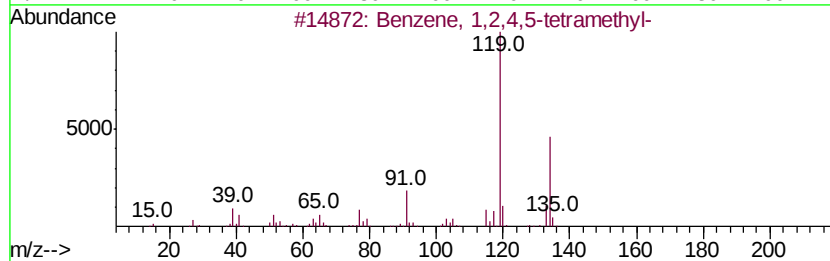
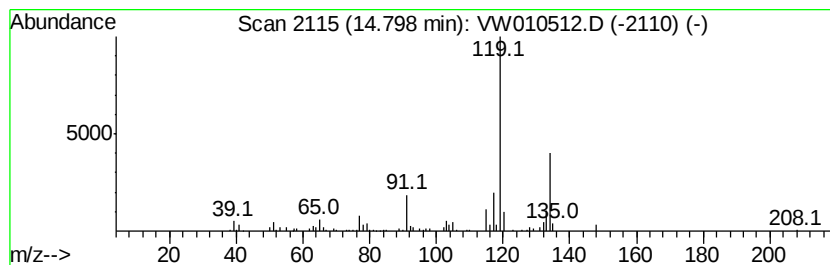
Instrument :
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ClientSampleId :
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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

Peak Number 8 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.80	7.71 ug/l	71415	1,4-Dichlorobenzene-d4	13.56	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
2	1,3-Cyclopentadiene, 1,2,3,4-tet...	134	C10H14	076089-59-3	93
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	90
4	o-Cymene	134	C10H14	000527-84-4	90
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	90



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW052219\
Data File : VW010512.D
Acq On : 22 May 2019 16:04
Operator : SY/VA
Sample : K3002-05
Misc : 5.09G/5ML/MSVOA_W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
23-C3-20190399

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-Ethyl-4-methylc...	12.14	6.9	ug/l	68368	3	11.63	493804	50.0
Heptane, 3-ethyl-...	12.37	7.6	ug/l	75242	3	11.63	493804	50.0
3-Octene, 2,6-dim...	12.78	10.1	ug/l	93229	4	13.56	463231	50.0
Mesitylene	12.87	6.0	ug/l	56069	4	13.56	463231	50.0
Decane, 4-methyl-	13.17	11.8	ug/l	109313	4	13.56	463231	50.0
Cyclohexane, butyl-	13.45	9.9	ug/l	91657	4	13.56	463231	50.0
Undecane	13.88	27.8	ug/l	257840	4	13.56	463231	50.0
Benzene, 1,2,4,5-...	14.80	7.7	ug/l	71415	4	13.56	463231	50.0