

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
 Data File : VV011037.D
 Acq On : 23 May 2019 19:53
 Operator : SY/MD
 Sample : K3016-04
 Misc : 4.96G/10ML/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A51C3

Integration Parameters: LSCINT.P

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

Filtering: 5
 Min Area: 0 % 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_V\METHOD\SOM2VLM052019S.M
 Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.206	32	36	49	rVB	11185	16963	5.18%	0.699%
2	1.315	64	70	77	rVB	30379	30173	9.22%	1.243%
3	1.386	87	92	101	rVB	11271	11499	3.51%	0.474%
4	1.508	116	130	133	rBV5	1723	3241	0.99%	0.134%
5	1.563	141	147	156	rVB	20471	23540	7.19%	0.970%
6	1.811	218	224	232	rVB3	4692	6167	1.88%	0.254%
7	2.042	293	296	299	rBV4	550	441	0.13%	0.018%
8	2.119	309	320	333	rBV2	55403	82481	25.19%	3.398%
9	2.190	334	342	355	rVV	13488	20236	6.18%	0.834%
10	2.238	355	357	360	rVV3	527	282	0.09%	0.012%
11	2.312	373	380	391	rVB4	3101	5102	1.56%	0.210%
12	2.457	415	425	440	rBV	24254	36339	11.10%	1.497%
13	2.528	440	447	459	rVB3	2003	3166	0.97%	0.130%
14	2.647	478	484	485	rBV2	387	388	0.12%	0.016%
15	2.991	585	591	592	rBV2	687	633	0.19%	0.026%
16	3.061	605	613	624	rVB5	2432	4830	1.48%	0.199%
17	3.203	653	657	659	rBV2	426	352	0.11%	0.015%
18	3.505	747	751	756	rBV2	213	232	0.07%	0.010%
19	3.630	785	790	791	rBV	297	253	0.08%	0.010%
20	3.749	813	827	848	rBV4	6530	16033	4.90%	0.660%
21	3.936	874	885	909	rBV	16705	42147	12.87%	1.736%
22	4.225	969	975	978	rBV	247	305	0.09%	0.013%
23	4.396	1010	1028	1051	rBV	46374	120611	36.84%	4.969%
24	4.515	1059	1065	1066	rBV2	663	601	0.18%	0.025%
25	4.733	1128	1133	1137	rBV2	211	255	0.08%	0.011%
26	5.016	1216	1221	1226	rBV	192	267	0.08%	0.011%
27	5.090	1226	1244	1269	rBV2	109910	269519	82.32%	11.103%
28	5.245	1290	1292	1298	rVB2	322	266	0.08%	0.011%
29	5.309	1308	1312	1317	rVB3	326	308	0.09%	0.013%
30	5.367	1323	1330	1331	rBV3	1337	1261	0.39%	0.052%
31	5.470	1358	1362	1366	rBV2	186	238	0.07%	0.010%
32	5.527	1377	1380	1383	rVV2	374	247	0.08%	0.010%
33	5.663	1408	1422	1437	rBV	89068	179438	54.80%	7.392%
34	5.936	1504	1507	1508	rBV	481	279	0.09%	0.011%

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
 Data File : VV011037.D
 Acq On : 23 May 2019 19:53
 Operator : SY/MD
 Sample : K3016-04
 Misc : 4.96G/10ML/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A51C3

Integration Parameters: LSCINT.P

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

Filtering: 5
 Min Area: 0 % 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_V\METHOD\SOM2VLM052019S.M
 Title : VOC Analysis

35	5.978	1518	1520	1527	rBV2	294	275	0.08%	0.011%
36	6.116	1549	1563	1590	rBV2	65972	135319	41.33%	5.574%
37	6.328	1619	1629	1650	rVV3	23301	44628	13.63%	1.838%
38	6.431	1658	1661	1664	rVB3	548	425	0.13%	0.018%
39	6.608	1712	1716	1722	rBV2	222	287	0.09%	0.012%
40	6.707	1741	1747	1753	rBV4	593	894	0.27%	0.037%
41	6.868	1794	1797	1799	rBV2	366	286	0.09%	0.012%
42	7.029	1832	1847	1862	rBV2	32004	54742	16.72%	2.255%
43	7.187	1890	1896	1899	rBV3	557	662	0.20%	0.027%
44	7.283	1921	1926	1930	rBV3	316	329	0.10%	0.014%
45	7.312	1930	1935	1936	rBV2	482	329	0.10%	0.014%
46	7.357	1936	1949	1965	rBV	108319	189999	58.03%	7.827%
47	7.662	2032	2044	2059	rBV2	21168	34148	10.43%	1.407%
48	7.743	2065	2069	2070	rBV2	1010	763	0.23%	0.031%
49	7.981	2136	2143	2153	rVB	2216	3323	1.01%	0.137%
50	8.132	2178	2190	2209	rBV	62637	108598	33.17%	4.474%
51	8.280	2225	2236	2260	rBV	200341	327412	100.00%	13.488%
52	8.669	2353	2357	2363	rBV2	245	326	0.10%	0.013%
53	8.746	2376	2381	2387	rBV	209	322	0.10%	0.013%
54	8.894	2411	2427	2449	rBV	128831	213436	65.19%	8.792%
55	9.270	2534	2544	2546	rBV4	1547	2549	0.78%	0.105%
56	9.357	2564	2571	2581	rVB6	2331	4028	1.23%	0.166%
57	9.527	2618	2624	2625	rBV2	491	478	0.15%	0.020%
58	9.537	2625	2627	2634	rVV4	955	1123	0.34%	0.046%
59	9.585	2638	2642	2644	rVV3	453	356	0.11%	0.015%
60	9.598	2644	2646	2650	rVB3	724	403	0.12%	0.017%
61	9.675	2666	2670	2678	rBV4	414	488	0.15%	0.020%
62	9.743	2688	2691	2698	rVB3	722	812	0.25%	0.033%
63	9.852	2714	2725	2735	rBV5	10330	16237	4.96%	0.669%
64	9.994	2765	2769	2776	rVV2	600	717	0.22%	0.030%
65	10.260	2841	2852	2867	rVV	71230	109656	33.49%	4.517%
66	10.424	2893	2903	2916	rBV4	5708	8960	2.74%	0.369%
67	10.559	2938	2945	2951	rBV5	858	1263	0.39%	0.052%
68	10.621	2957	2964	2965	rBV2	1648	1590	0.49%	0.065%
69	10.749	3001	3004	3007	rBV3	1066	750	0.23%	0.031%
70	10.804	3015	3021	3034	rVB7	1751	3097	0.95%	0.128%
71	10.948	3061	3066	3068	rBV2	407	362	0.11%	0.015%

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
 Data File : VV011037.D
 Acq On : 23 May 2019 19:53
 Operator : SY/MD
 Sample : K3016-04
 Misc : 4.96G/10ML/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A51C3

Integration Parameters: LSCINT.P

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

Filtering: 5
 Min Area: 0 % 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_V\METHOD\SOM2VLM052019S.M
 Title : VOC Analysis

72	10.984	3071	3077	3080	rVV6	984	1006	0.31%	0.041%
73	11.013	3084	3086	3091	rVB2	388	246	0.08%	0.010%
74	11.055	3091	3099	3100	rBV2	256	317	0.10%	0.013%
75	11.193	3134	3142	3153	rBV5	8036	12809	3.91%	0.528%
76	11.296	3163	3174	3188	rBV	76138	123857	37.83%	5.102%
77	11.575	3255	3261	3272	rVB4	3340	4712	1.44%	0.194%
78	11.672	3280	3291	3304	rBV	68729	109066	33.31%	4.493%
79	11.730	3307	3309	3311	rVV2	713	428	0.13%	0.018%
80	12.058	3403	3411	3420	rVV6	3202	5172	1.58%	0.213%
81	12.292	3474	3484	3493	rBV	2578	4078	1.25%	0.168%
82	12.392	3508	3515	3522	rVV4	5102	7161	2.19%	0.295%
83	12.720	3610	3617	3626	rVB4	1307	1698	0.52%	0.070%
84	13.122	3737	3742	3745	rBV2	190	236	0.07%	0.010%
85	13.186	3758	3762	3767	rVB5	891	787	0.24%	0.032%
86	13.482	3850	3854	3860	rBV2	456	418	0.13%	0.017%
87	13.636	3895	3902	3910	rVB5	680	885	0.27%	0.036%
88	13.829	3957	3962	3965	rBV2	201	239	0.07%	0.010%
89	14.090	4034	4043	4055	rVB2	2147	3597	1.10%	0.148%
90	14.382	4131	4134	4137	rVB2	732	433	0.13%	0.018%
91	14.556	4185	4188	4195	rVB3	295	268	0.08%	0.011%
92	15.051	4339	4342	4347	rVB	242	235	0.07%	0.010%
93	15.189	4383	4385	4390	rVB	463	306	0.09%	0.013%
94	15.427	4455	4459	4462	rVB2	293	264	0.08%	0.011%
95	15.530	4489	4491	4498	rVB2	343	296	0.09%	0.012%
96	16.427	4767	4770	4773	rBV	444	337	0.10%	0.014%
97	16.562	4809	4812	4815	rBV2	667	433	0.13%	0.018%
98	16.784	4878	4881	4883	rBV3	392	230	0.07%	0.009%
99	17.041	4958	4961	4962	rBV2	462	260	0.08%	0.011%
100	17.495	5100	5102	5104	rBV2	508	262	0.08%	0.011%

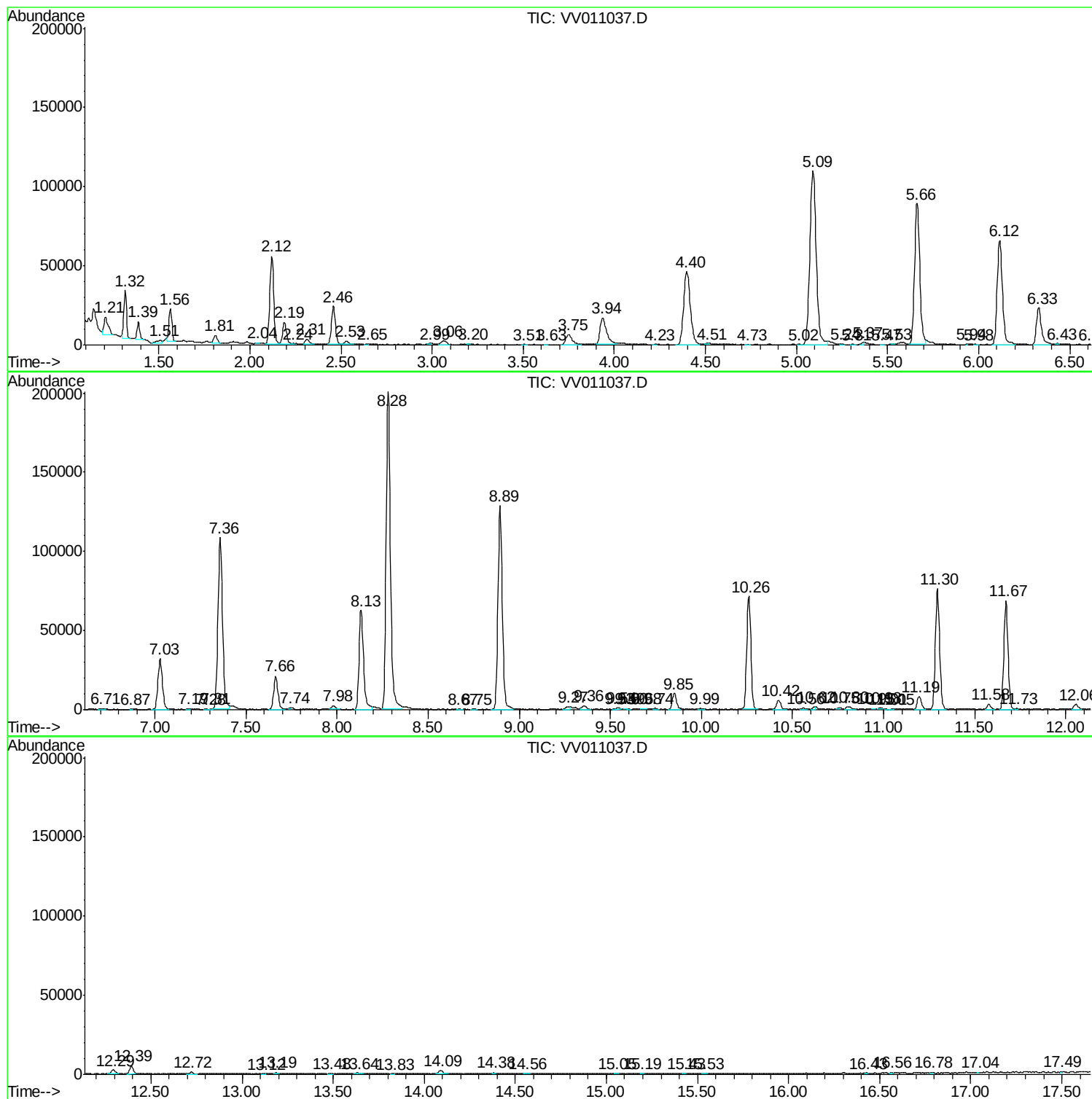
Sum of corrected areas: 2427501

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampled :
A51C3

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

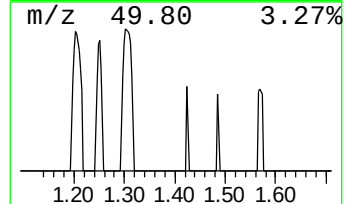
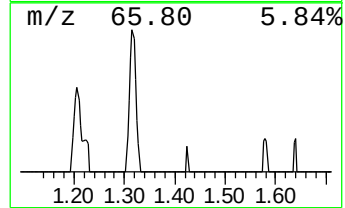
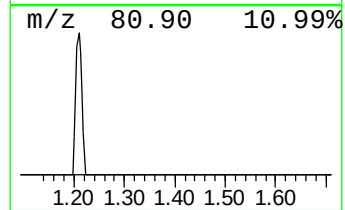
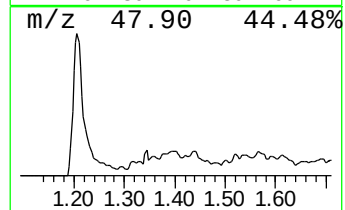
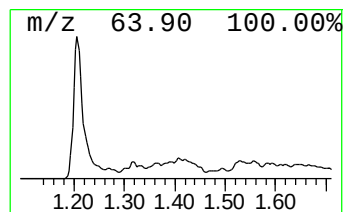
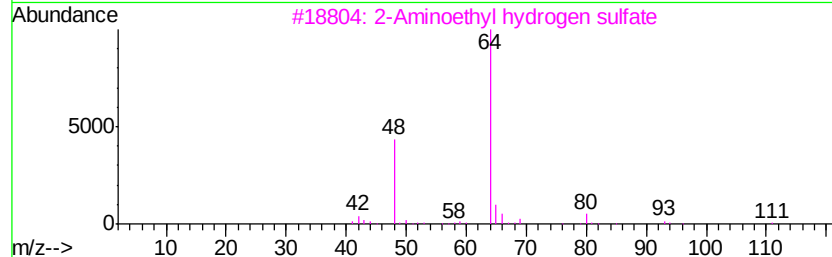
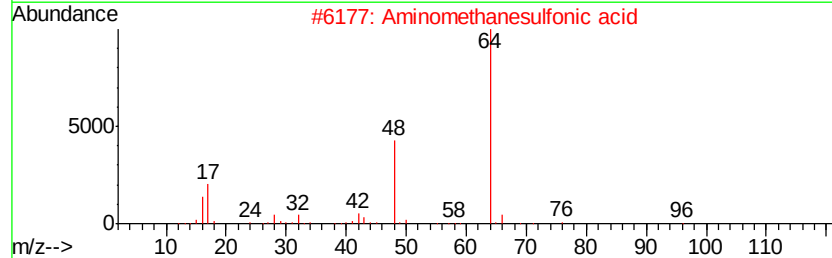
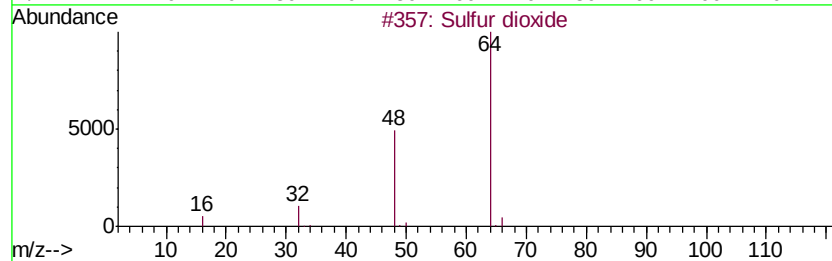
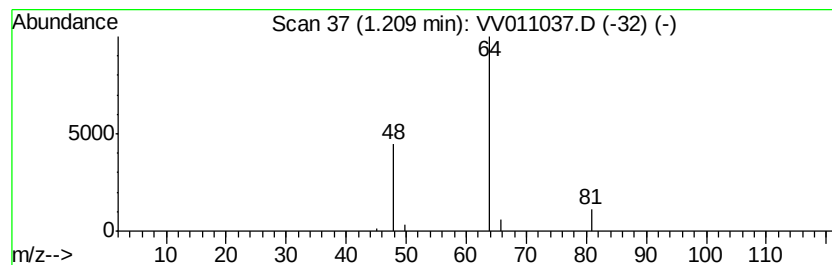
Instrument :
MSVOA_V
ClientSampleId :
A51C3

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 1 Sulfur dioxide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.21	2.36 ug/L	16963	1,4-Difluorobenzene	5.66
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Sulfur dioxide	64 02S	007446-09-5 74
2		Aminomethanesulfonic acid	111 CH5N03S	013881-91-9 9
3		2-Aminoethyl hydrogen sulfate	141 C2H7N04S	000926-39-6 9
4		L-Alanine, 3-sulfo-	169 C3H7N05S	000498-40-8 9
5		Aminomethanesulfonic acid	111 CH5N03S	013881-91-9 9



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSV0A_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampled :
A51C3

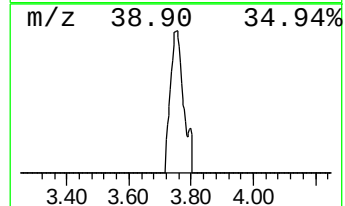
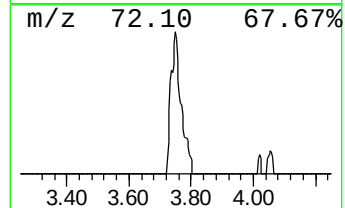
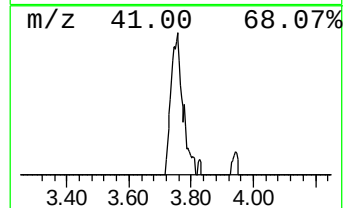
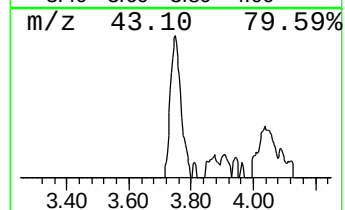
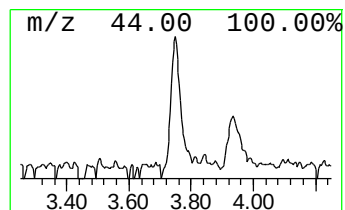
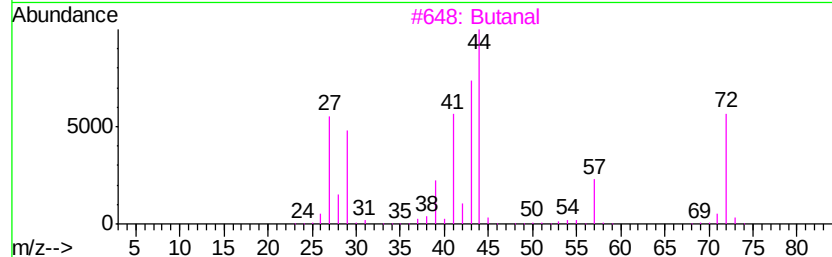
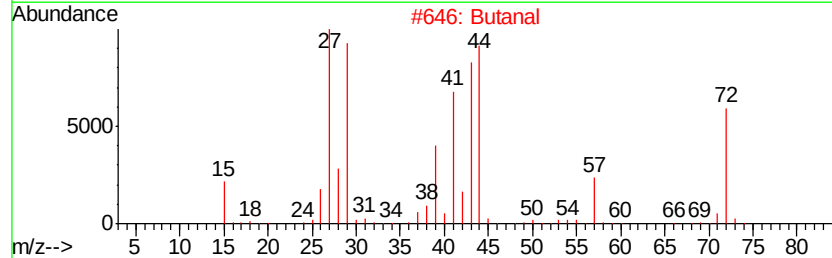
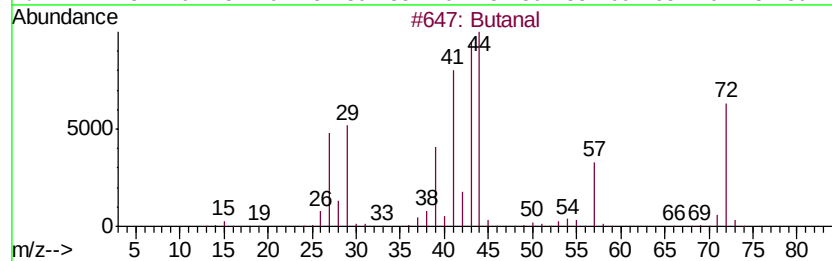
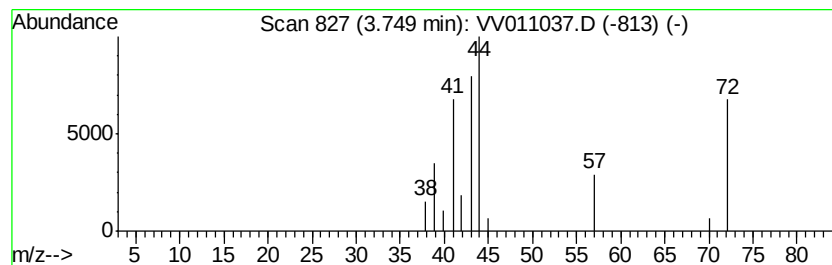
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 3 Butanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.75	2.23 ug/L	16033	1,4-Difluorobenzene	5.66

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal		72	C4H8O	000123-72-8	90
2	Butanal		72	C4H8O	000123-72-8	90
3	Butanal		72	C4H8O	000123-72-8	86
4	Ethene, ethoxy-		72	C4H8O	000109-92-2	9
5	Acetaldehyde		44	C2H4O	000075-07-0	9



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51C3

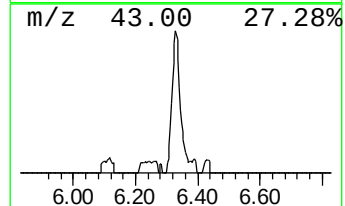
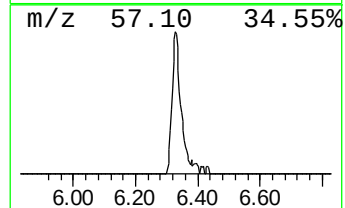
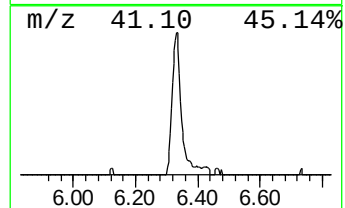
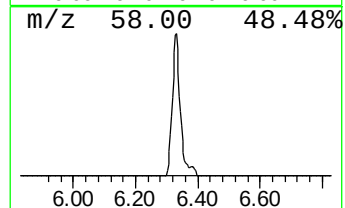
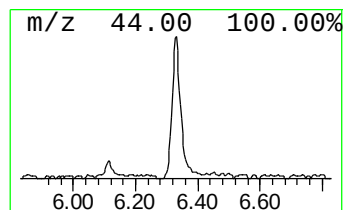
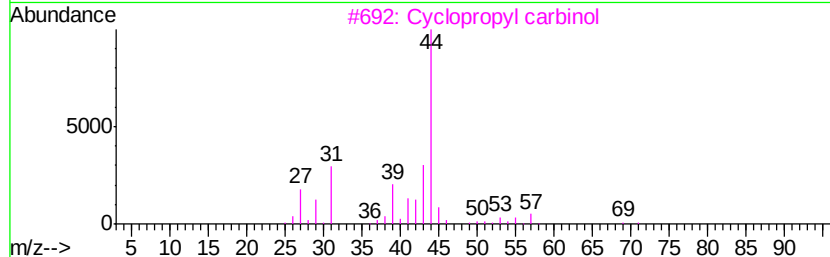
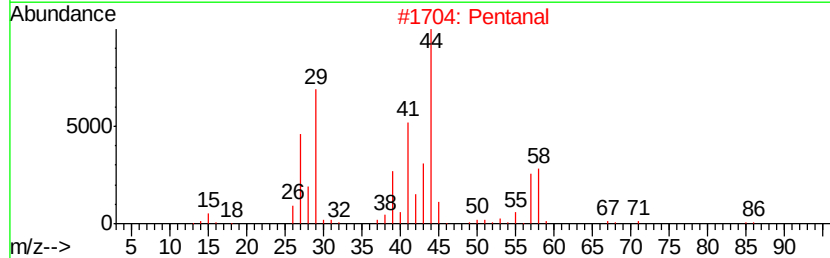
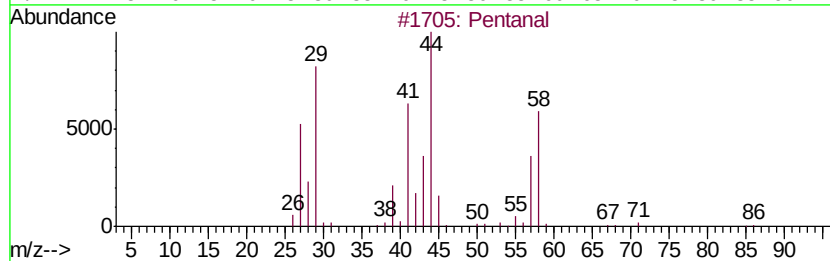
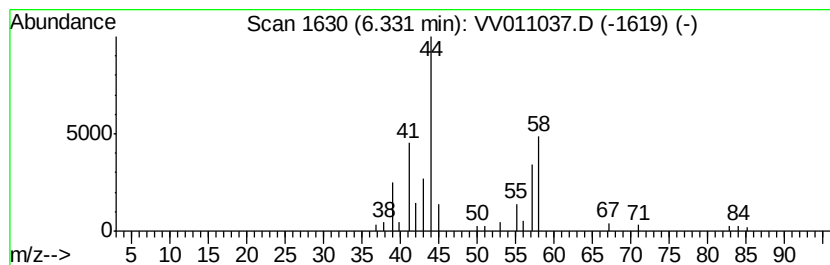
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 4 Pentanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	6.22 ug/L	44628	1,4-Difluorobenzene	5.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pentanal	86	C5H10O	000110-62-3	78
2		Pentanal	86	C5H10O	000110-62-3	78
3		Cyclopropyl carbinol	72	C4H8O	002516-33-8	50
4		Acetamide, 2-cyano-	84	C3H4N2O	000107-91-5	9
5		Carbonic acid, ethyl 2-propenyl ...	130	C6H10O3	001469-70-1	9



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSV0A_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51C3

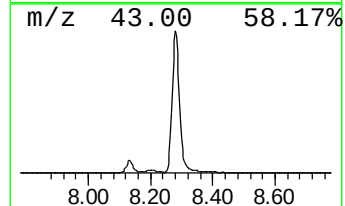
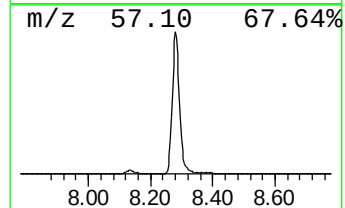
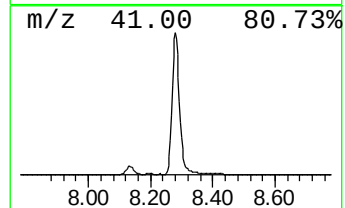
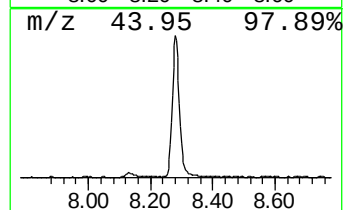
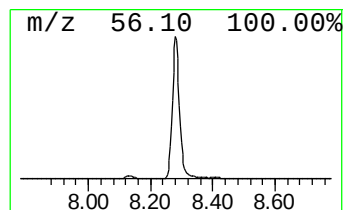
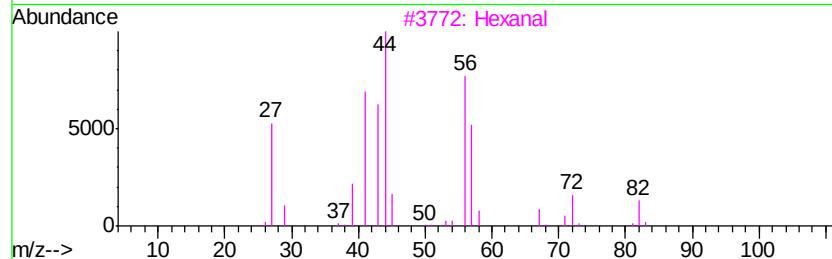
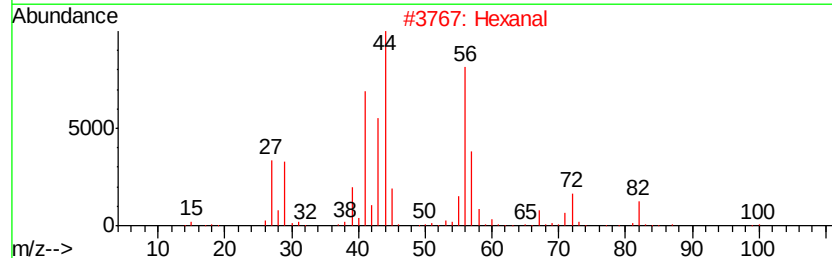
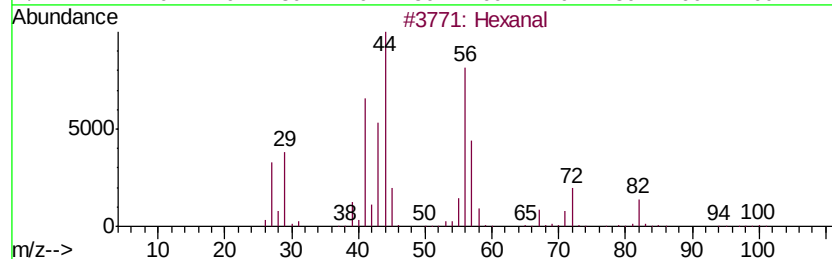
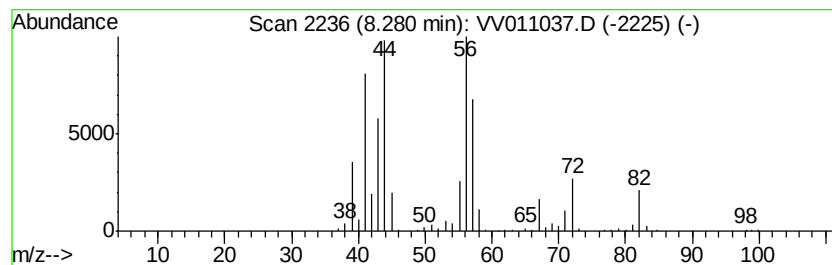
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 6 Hexanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	38.35 ug/L	327412	Chlorobenzene-d5	8.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexanal	100	C6H12O	000066-25-1	91
2		Hexanal	100	C6H12O	000066-25-1	91
3		Hexanal	100	C6H12O	000066-25-1	86
4		Hexanal	100	C6H12O	000066-25-1	83
5		Butanal, 3-methyl-	86	C5H10O	000590-86-3	35



Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSV0A_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSV0A_V
ClientSampled :
A51C3

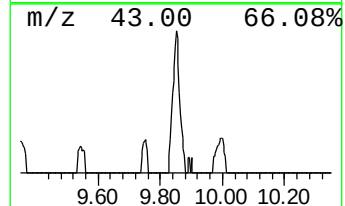
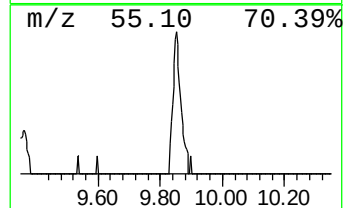
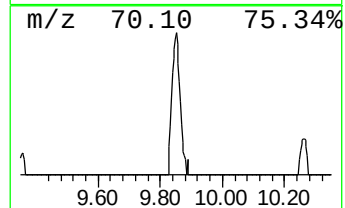
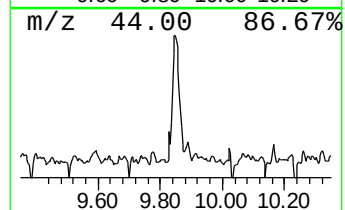
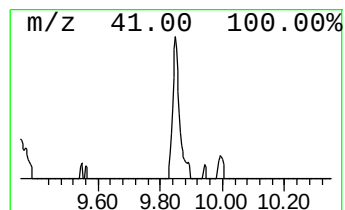
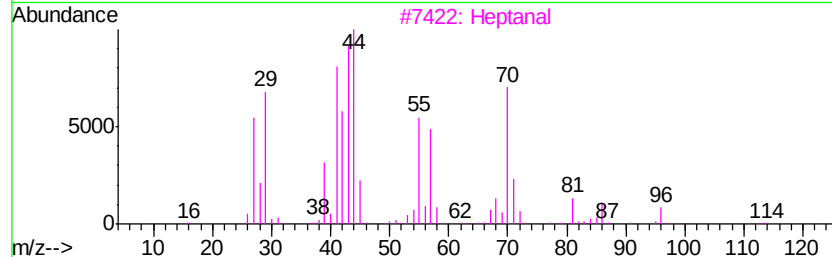
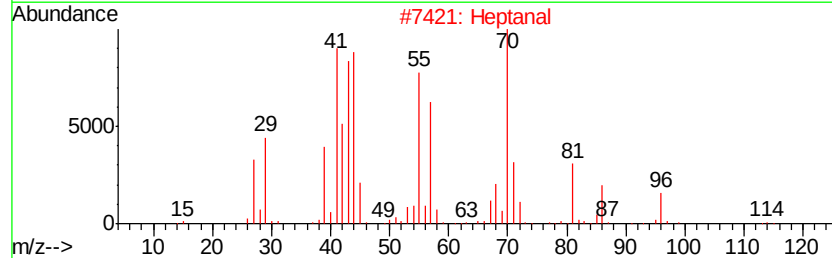
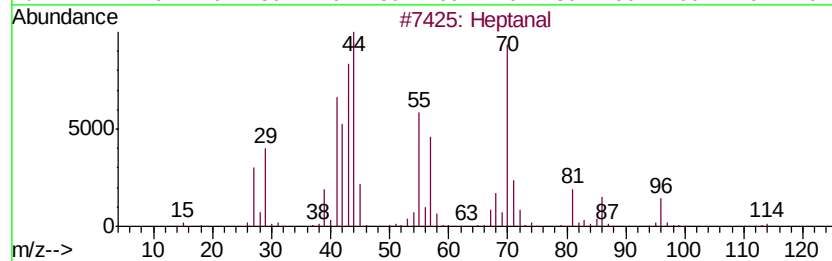
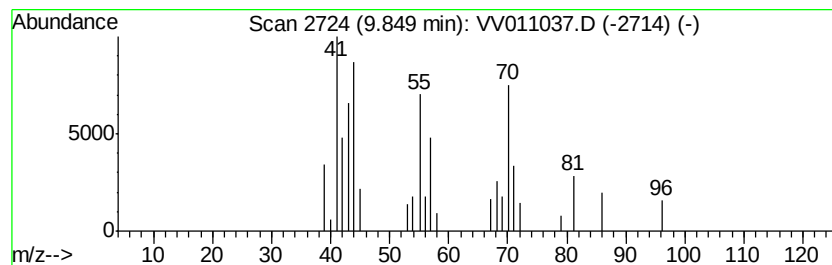
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 7 Heptanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	1.90 ug/L	16237	Chlorobenzene-d5	8.89

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal		114	C7H14O	000111-71-7	72
2	Heptanal		114	C7H14O	000111-71-7	64
3	Heptanal		114	C7H14O	000111-71-7	64
4	Heptanal		114	C7H14O	000111-71-7	59
5	Heptanal		114	C7H14O	000111-71-7	50



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51C3

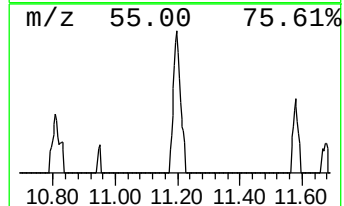
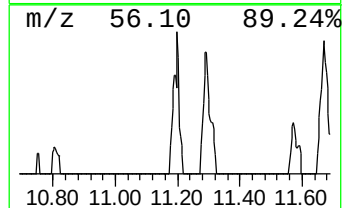
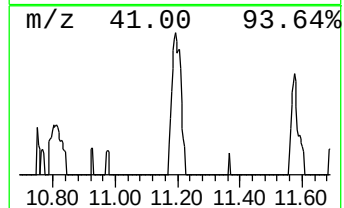
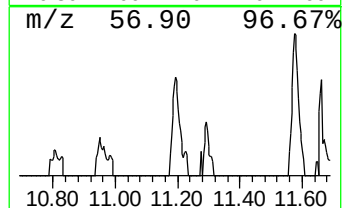
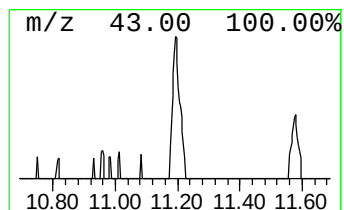
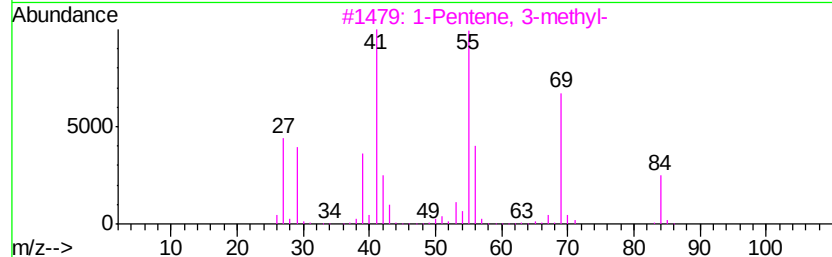
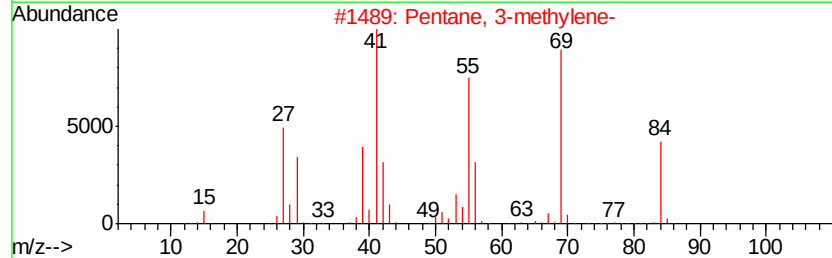
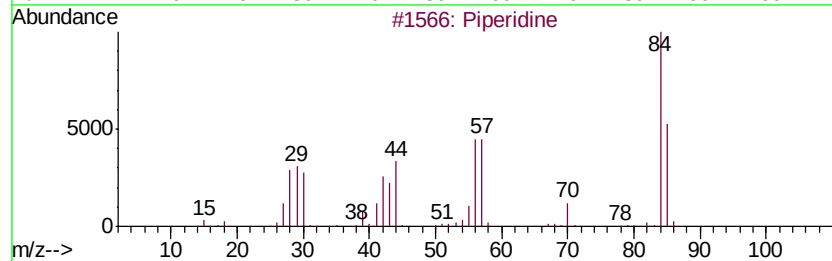
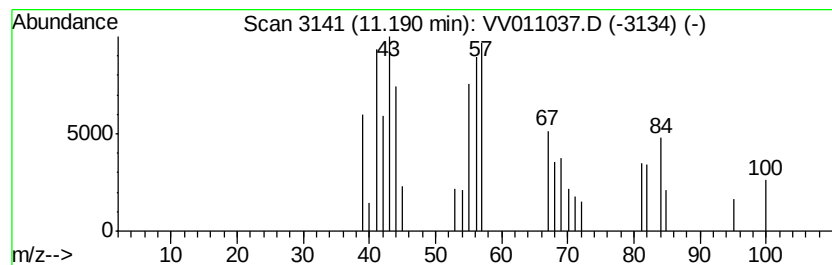
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 9 Piperidine Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	2.59 ug/L	12809	1,4-Dichlorobenzene-d4	11.30

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Piperidine		85	C5H11N	000110-89-4	50
2	Pentane, 3-methylene-		84	C6H12	000760-21-4	38
3	1-Pentene, 3-methyl-		84	C6H12	000760-20-3	38
4	6-Amino-1-hexyl phosphate		197	C6H16N04P	007564-68-3	37
5	3-Chlorohexane		120	C6H13Cl	002346-81-8	35



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51C3

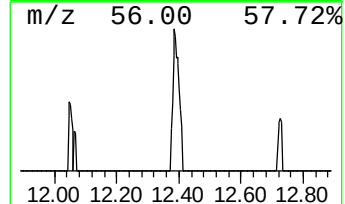
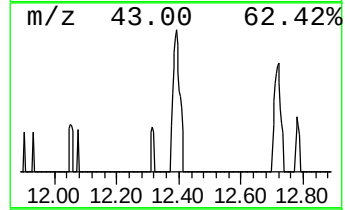
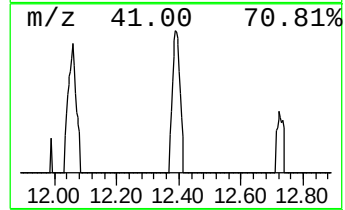
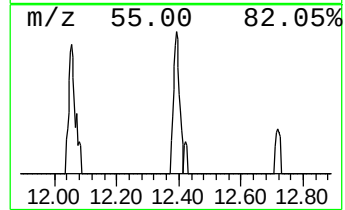
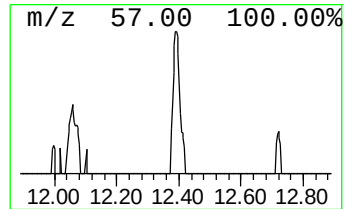
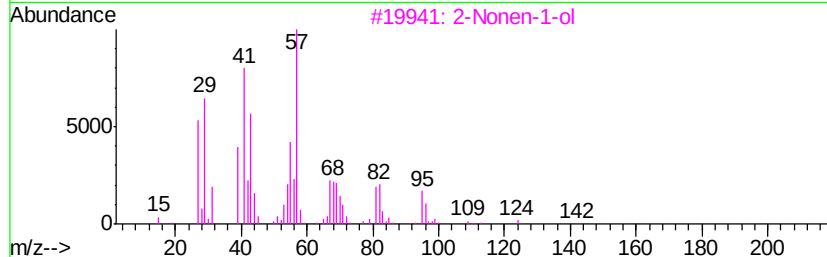
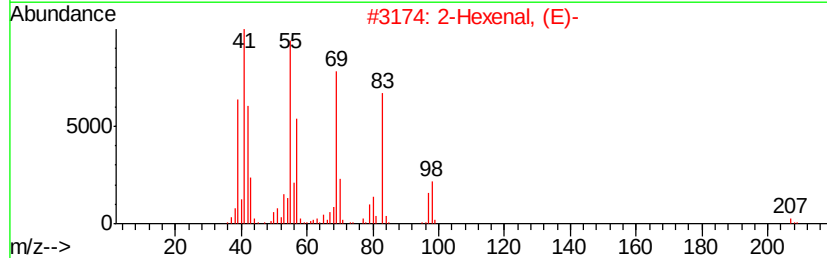
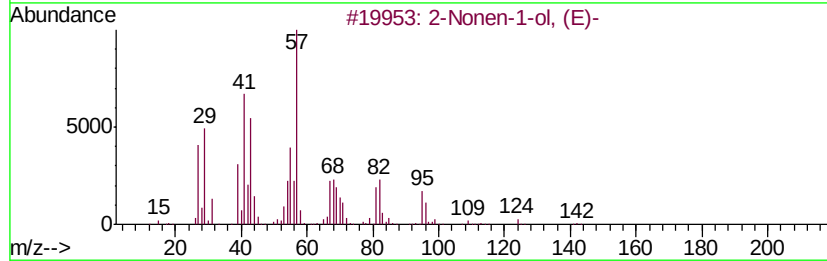
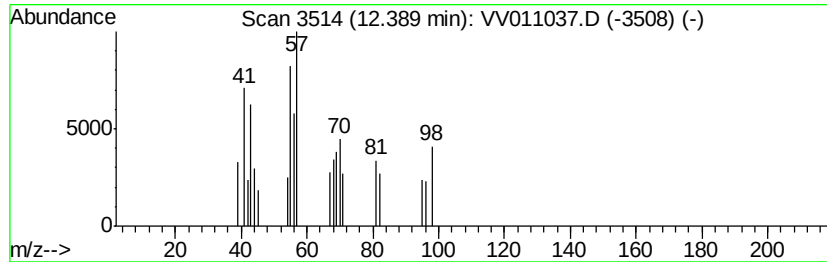
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

Peak Number 10 unknown-01 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	1.45 ug/L	7161	1,4-Dichlorobenzene-d4	11.30

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Nonen-1-ol, (E)-	142	C9H18O	031502-14-4	38
2			2-Hexenal, (E)-	98	C6H10O	006728-26-3	38
3			2-Nonen-1-ol	142	C9H18O	022104-79-6	38
4			1-Pentene, 3-ethyl-	98	C7H14	004038-04-4	35
5			2-Hepten-1-ol, (E)-	114	C7H14O	033467-76-4	32



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052319\
Data File : VV011037.D
Acq On : 23 May 2019 19:53
Operator : SY/MD
Sample : K3016-04
Misc : 4.96G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51C3

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Sulfur dioxide	1.21	2.4	ug/L	16963	1	5.66	179438	25.0
Butanal	3.75	2.2	ug/L	16033	1	5.66	179438	25.0
Pentanal	6.33	6.2	ug/L	44628	1	5.66	179438	25.0
Hexanal	8.28	38.4	ug/L	327412	2	8.89	213436	25.0
Heptanal	9.85	1.9	ug/L	16237	2	8.89	213436	25.0
Piperidine	11.19	2.6	ug/L	12809	3	11.30	123857	25.0
unknown-01	12.39	1.5	ug/L	7161	3	11.30	123857	25.0