

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052819\
 Data File : VV011088.D
 Acq On : 29 May 2019 04:31
 Operator : SY/MD
 Sample : K3016-17
 Misc : 5.61G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 A51D4

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\SOM2VLM052819S.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	1.203	30	35	45	rBV3	28355	40652	2.91%	0.392%
2	1.309	63	68	77	rVB	205578	185432	13.28%	1.787%
3	1.563	142	147	160	rVB	134642	156683	11.23%	1.510%
4	2.116	312	319	331	rVB	305385	445147	31.89%	4.290%
5	3.154	638	642	646	rBV7	1910	1873	0.13%	0.018%
6	3.257	672	674	676	rBV3	1089	583	0.04%	0.006%
7	3.290	682	684	686	rBV3	1142	373	0.03%	0.004%
8	3.383	707	713	716	rBV8	1429	1240	0.09%	0.012%
9	3.450	731	734	737	rBV4	1037	597	0.04%	0.006%
10	3.515	752	754	756	rBV3	783	423	0.03%	0.004%
11	3.743	812	825	843	rBV3	22454	55053	3.94%	0.531%
12	3.933	873	884	907	rBV2	57235	151934	10.88%	1.464%
13	4.286	988	994	997	rBV7	1215	1466	0.11%	0.014%
14	4.392	1011	1027	1054	rVB2	215574	525289	37.63%	5.062%
15	4.891	1177	1182	1183	rBV4	773	695	0.05%	0.007%
16	4.936	1195	1196	1198	rVB2	1009	265	0.02%	0.003%
17	4.949	1198	1200	1203	rBV3	642	431	0.03%	0.004%
18	5.013	1218	1220	1223	rBV4	1108	586	0.04%	0.006%
19	5.087	1226	1243	1265	rVV2	566809	1395817	100.00%	13.451%
20	5.473	1361	1363	1364	rVB2	924	266	0.02%	0.003%
21	5.659	1407	1421	1450	rBV	393153	786386	56.34%	7.578%
22	5.939	1500	1508	1509	rBV6	3682	3508	0.25%	0.034%
23	6.026	1533	1535	1538	rVB4	840	336	0.02%	0.003%
24	6.048	1540	1542	1545	rBV4	696	314	0.02%	0.003%
25	6.113	1549	1562	1589	rVB	326085	658474	47.17%	6.346%
26	6.328	1619	1629	1647	rBV	87397	165110	11.83%	1.591%
27	6.598	1709	1713	1715	rBV5	1480	1231	0.09%	0.012%
28	6.637	1721	1725	1727	rBV5	1835	1435	0.10%	0.014%
29	6.698	1740	1744	1745	rBV3	2064	1543	0.11%	0.015%
30	6.791	1770	1773	1776	rBV4	1048	977	0.07%	0.009%
31	6.810	1776	1779	1784	rVV6	1995	1737	0.12%	0.017%
32	6.846	1786	1790	1792	rBV4	1119	769	0.06%	0.007%
33	6.859	1792	1794	1798	rVB3	642	323	0.02%	0.003%
34	6.875	1798	1799	1800	rVB2	696	134	0.01%	0.001%

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 ALS Vial : 1 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 A51D4

Integration Parameters: LSCINT.P

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

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Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
 Title : VOC Analysis

35	6.891	1800	1804	1806	rVB5	895	691	0.05%	0.007%
36	6.913	1806	1811	1815	rBV6	1075	966	0.07%	0.009%
37	6.936	1815	1818	1819	rBV3	524	342	0.02%	0.003%
38	6.958	1822	1825	1826	rBV3	687	288	0.02%	0.003%
39	6.971	1826	1829	1830	rBV3	843	496	0.04%	0.005%
40	7.026	1835	1846	1865	rVV	178371	313956	22.49%	3.026%
41	7.235	1909	1911	1913	rVB2	834	266	0.02%	0.003%
42	7.267	1917	1921	1922	rBV3	893	611	0.04%	0.006%
43	7.357	1938	1949	1968	rVB	630421	1076550	77.13%	10.375%
44	7.611	2023	2028	2033	rBV9	2910	3392	0.24%	0.033%
45	7.662	2034	2044	2059	rVV	114125	189281	13.56%	1.824%
46	7.981	2134	2143	2156	rVB3	12120	24066	1.72%	0.232%
47	8.058	2163	2167	2168	rBV3	771	572	0.04%	0.006%
48	8.132	2178	2190	2223	rBV	207704	397596	28.48%	3.832%
49	8.280	2226	2236	2261	rVV	587913	960727	68.83%	9.258%
50	8.479	2295	2298	2300	rBV3	1305	946	0.07%	0.009%
51	8.524	2308	2312	2315	rBV4	1894	1682	0.12%	0.016%
52	8.592	2331	2333	2338	rVB5	1601	973	0.07%	0.009%
53	8.691	2362	2364	2365	rBV2	537	141	0.01%	0.001%
54	8.736	2375	2378	2382	rVB5	1534	1057	0.08%	0.010%
55	8.768	2382	2388	2390	rBV5	1790	1485	0.11%	0.014%
56	8.894	2410	2427	2442	rBV	523387	860635	61.66%	8.294%
57	9.038	2471	2472	2473	rBV	861	280	0.02%	0.003%
58	9.138	2501	2503	2507	rVB5	1420	987	0.07%	0.010%
59	9.157	2507	2509	2510	rBV2	1302	470	0.03%	0.005%
60	9.688	2672	2674	2678	rBV5	1301	884	0.06%	0.009%
61	9.723	2683	2685	2687	rBV3	949	423	0.03%	0.004%
62	9.743	2687	2691	2692	rBV4	1608	1171	0.08%	0.011%
63	9.852	2715	2725	2737	rBV3	45834	77098	5.52%	0.743%
64	10.055	2786	2788	2791	rBV4	844	490	0.04%	0.005%
65	10.141	2813	2815	2817	rBV3	932	286	0.02%	0.003%
66	10.260	2841	2852	2868	rVB	267316	425211	30.46%	4.098%
67	10.366	2883	2885	2886	rBV2	425	155	0.01%	0.001%
68	10.424	2889	2903	2916	rVB4	19038	37643	2.70%	0.363%
69	10.473	2916	2918	2919	rBV2	859	339	0.02%	0.003%
70	10.498	2924	2926	2930	rVB4	1245	731	0.05%	0.007%
71	10.759	2996	3007	3015	rBV8	5624	10586	0.76%	0.102%

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Integration Parameters: LSCINT.P

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 Title : VOC Analysis

72	10.800	3015	3020	3021	rBV3	5284	4105	0.29%	0.040%
73	11.148	3127	3128	3132	rBV2	1166	872	0.06%	0.008%
74	11.196	3134	3143	3161	rVB3	43621	78279	5.61%	0.754%
75	11.292	3162	3173	3192	rVV	356291	589404	42.23%	5.680%
76	11.472	3226	3229	3235	rVB6	1963	1883	0.13%	0.018%
77	11.498	3235	3237	3239	rBV3	1015	459	0.03%	0.004%
78	11.575	3253	3261	3272	rBV3	10380	18838	1.35%	0.182%
79	11.672	3279	3291	3304	rBV	381771	621943	44.56%	5.994%
80	11.990	3386	3390	3391	rBV4	1707	1103	0.08%	0.011%
81	12.054	3400	3410	3424	rBV10	13108	23858	1.71%	0.230%
82	12.180	3446	3449	3451	rBV3	1359	997	0.07%	0.010%
83	12.392	3507	3515	3524	rBV3	25662	39220	2.81%	0.378%
84	12.585	3569	3575	3576	rBV5	966	902	0.06%	0.009%
85	12.627	3586	3588	3589	rBV2	1124	444	0.03%	0.004%
86	12.688	3603	3607	3608	rBV3	1484	882	0.06%	0.008%
87	12.720	3610	3617	3625	rVB7	5286	7980	0.57%	0.077%
88	12.865	3660	3662	3666	rBV5	970	658	0.05%	0.006%
89	13.283	3786	3792	3794	rBV4	1241	1271	0.09%	0.012%
90	13.376	3819	3821	3823	rBV3	1421	666	0.05%	0.006%
91	13.604	3889	3892	3893	rBV2	1447	851	0.06%	0.008%
92	13.929	3991	3993	3998	rBV3	1433	1287	0.09%	0.012%
93	14.784	4257	4259	4260	rBV2	1134	395	0.03%	0.004%

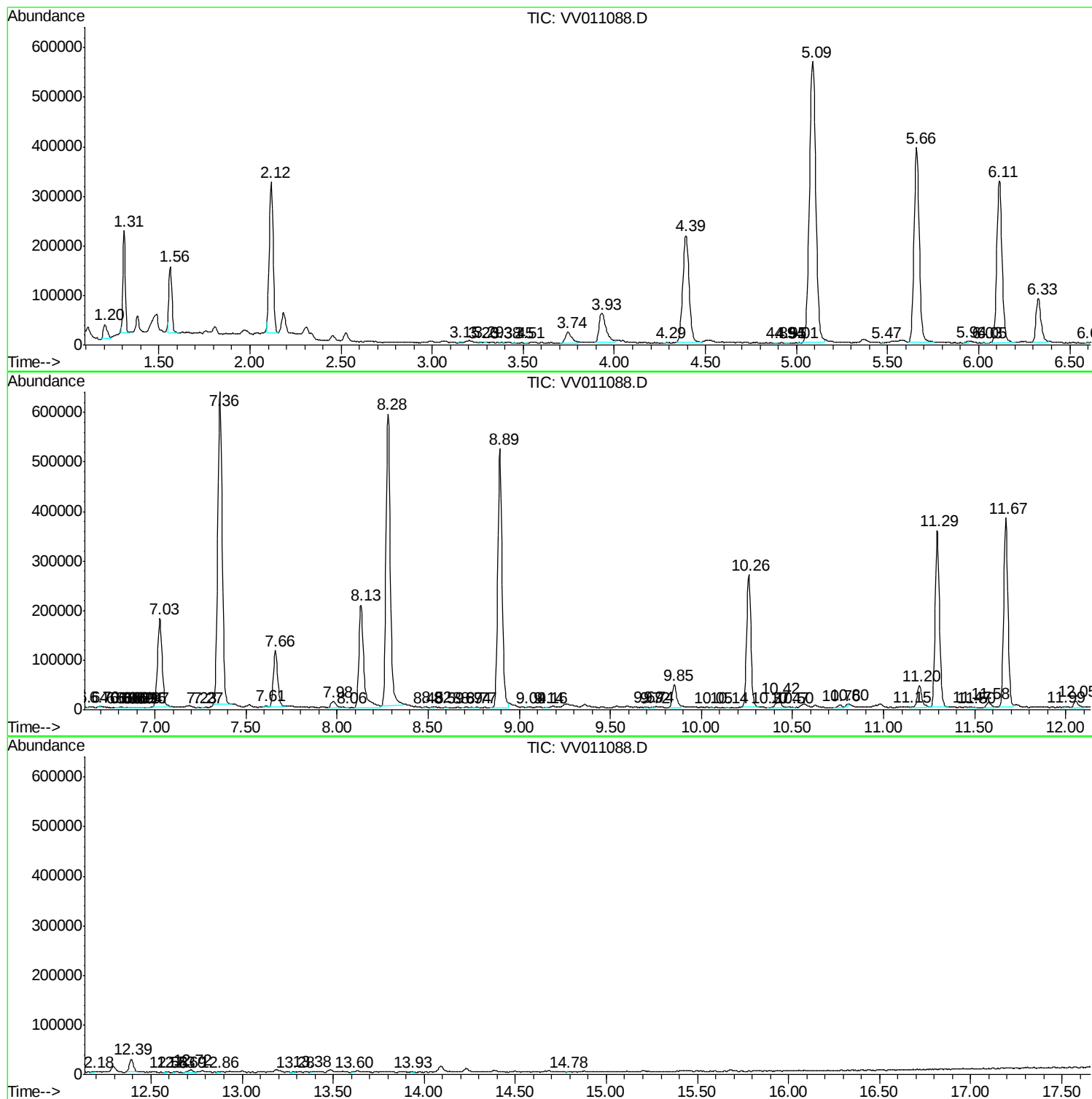
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Instrument :
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ClientSampled :
A51D4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

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



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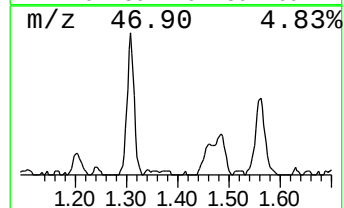
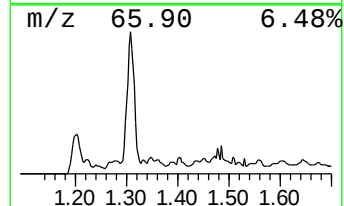
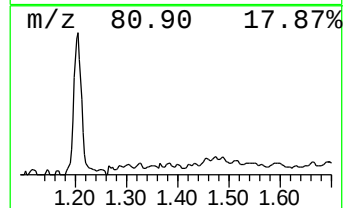
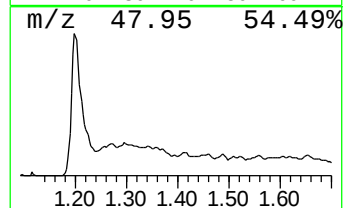
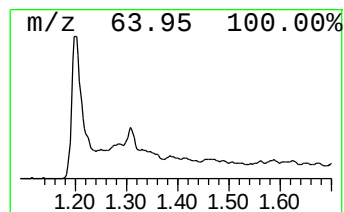
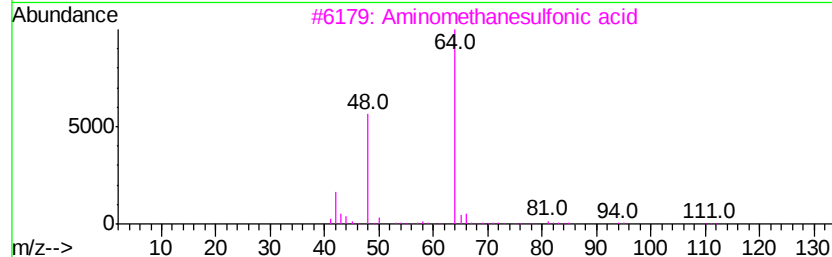
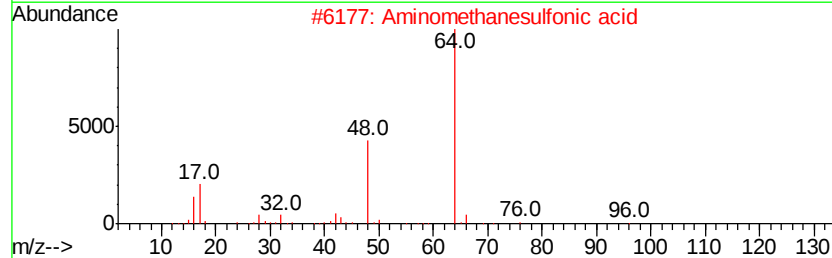
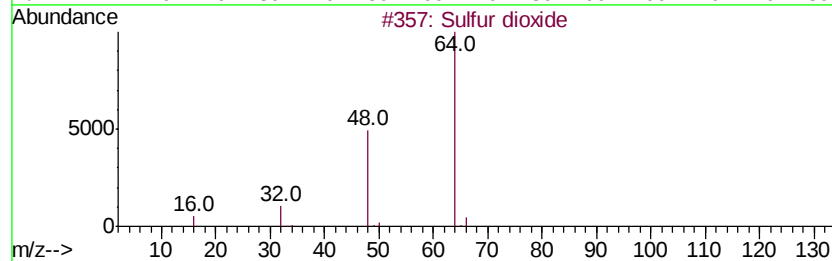
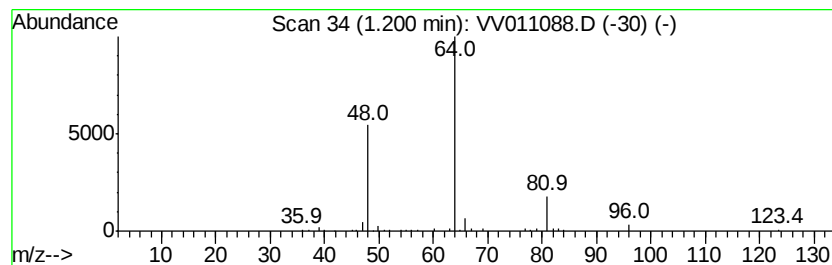
Instrument :
MSVOA_V
ClientSampleId :
A51D4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

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

Peak Number 1 Sulfur dioxide Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.20	1.29 ug/L	40652	1,4-Difluorobenzene	5.66
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Sulfur dioxide	64 02S	007446-09-5	86
2	Aminomethanesulfonic acid	111 CH5N03S	013881-91-9	74
3	Aminomethanesulfonic acid	111 CH5N03S	013881-91-9	43
4	L-Alanine, 3-sulfo-	169 C3H7N05S	000498-40-8	9
5	Aminomethanesulfonic acid	111 CH5N03S	013881-91-9	9



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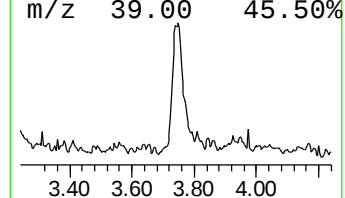
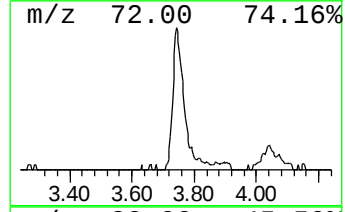
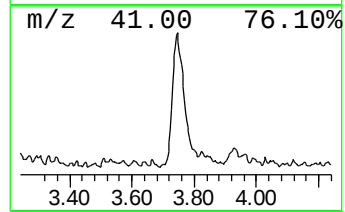
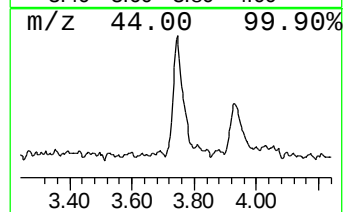
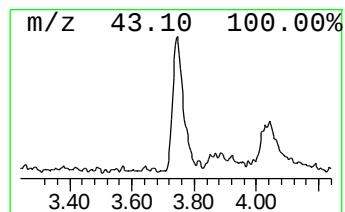
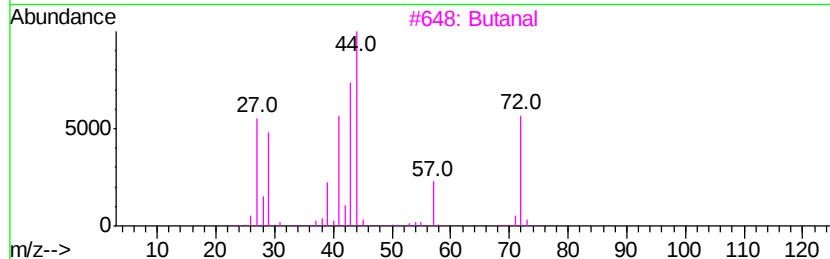
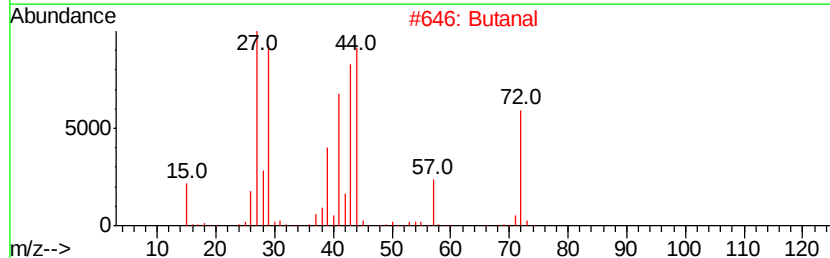
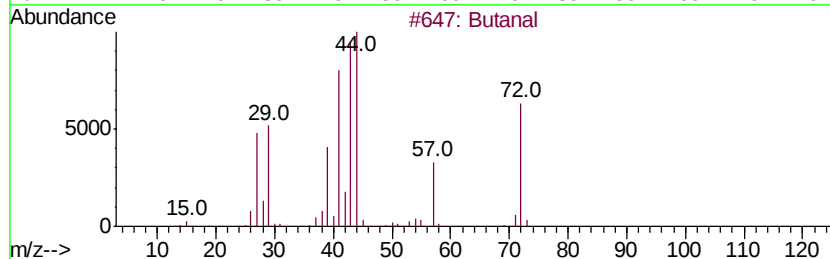
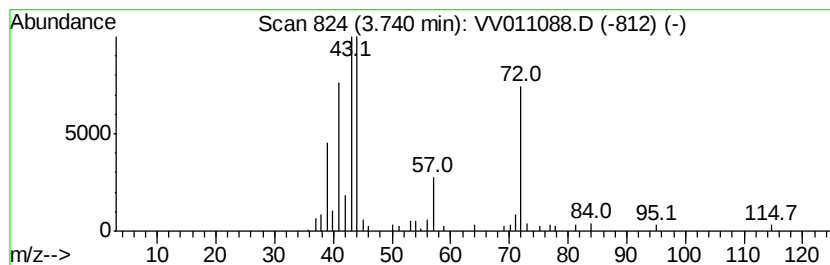
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

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

Peak Number 2 Butanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.74	1.75 ug/L	55053	1,4-Difluorobenzene	5.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Butanal	72	C4H8O	000123-72-8	94
2		Butanal	72	C4H8O	000123-72-8	91
3		Butanal	72	C4H8O	000123-72-8	72
4		Butanal	72	C4H8O	000123-72-8	64
5		Ethene, ethoxy-	72	C4H8O	000109-92-2	50



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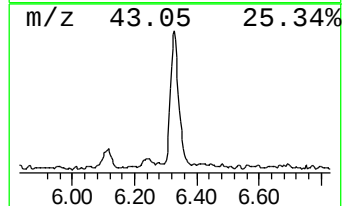
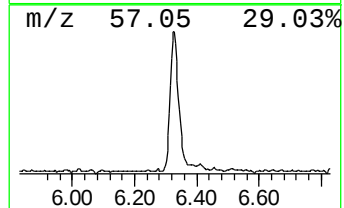
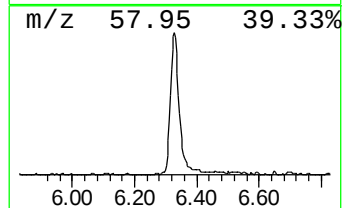
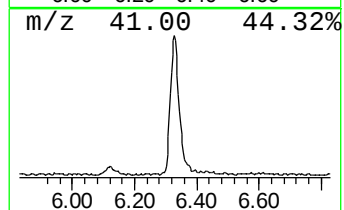
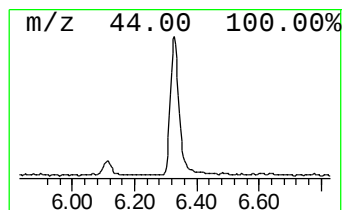
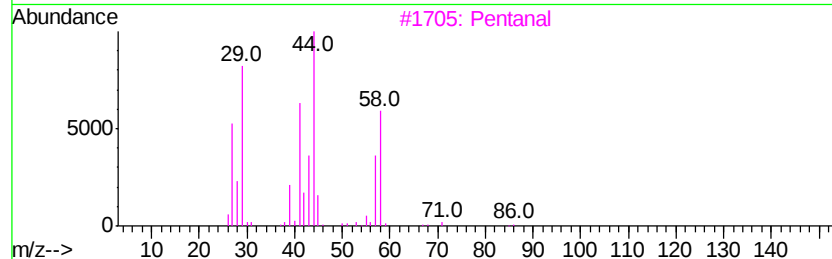
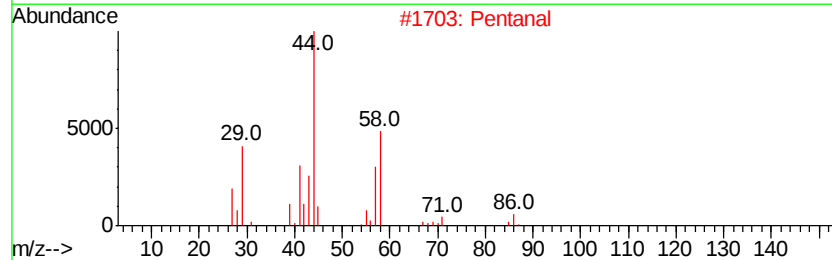
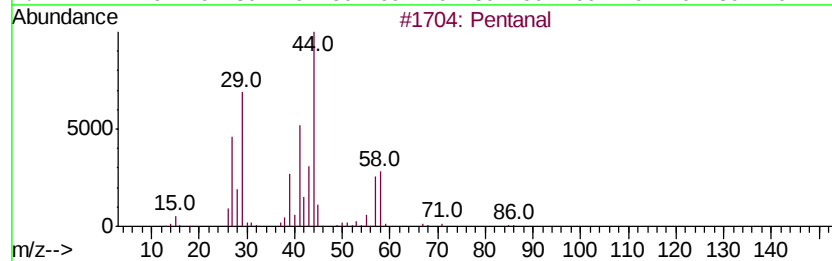
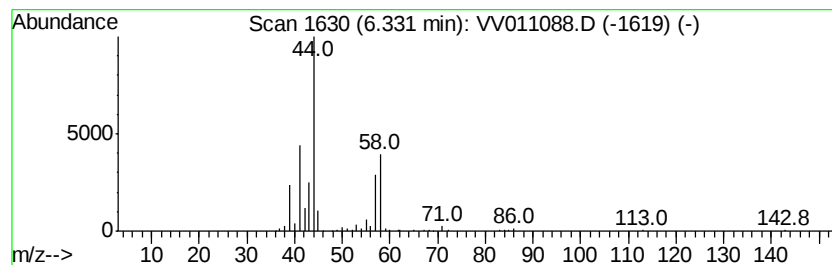
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Quant Title : VOC Analysis

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

Peak Number 3 Pentanal Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	5.25 ug/L	165110	1,4-Difluorobenzene	5.66

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pentanal	86	C5H10O	000110-62-3	90
2		Pentanal	86	C5H10O	000110-62-3	64
3		Pentanal	86	C5H10O	000110-62-3	53
4		Cyclopropyl carbinol	72	C4H8O	002516-33-8	50
5		Butanal, 3-methyl-	86	C5H10O	000590-86-3	45



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ClientSampleId :
A51D4

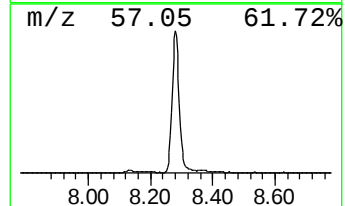
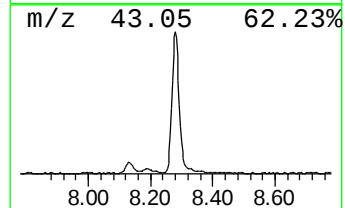
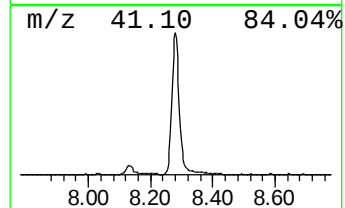
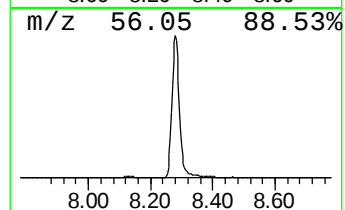
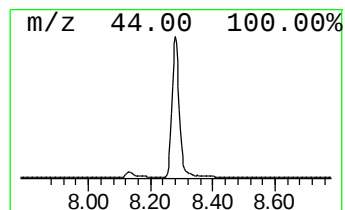
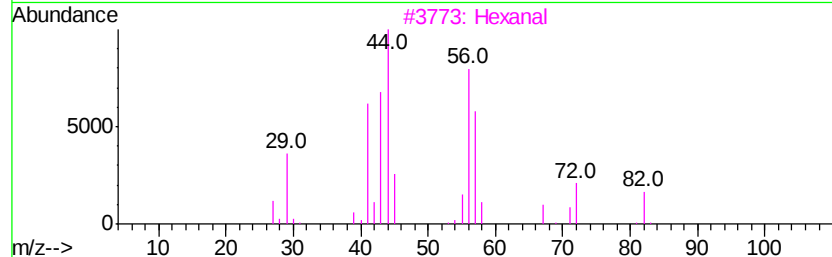
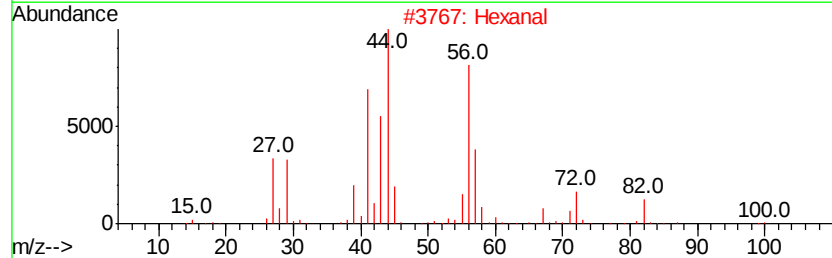
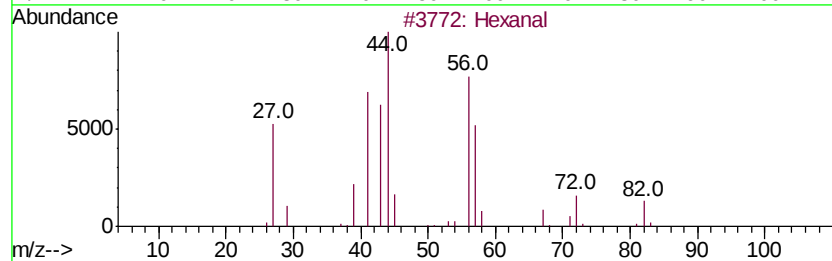
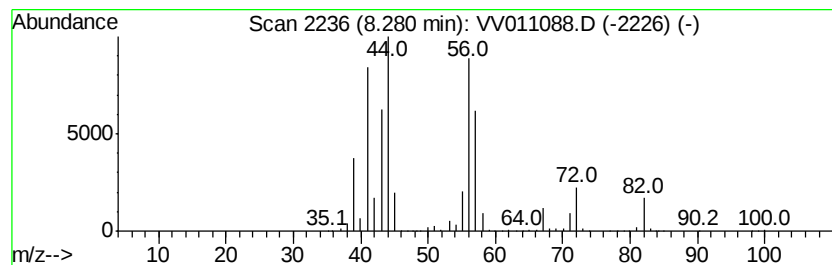
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Quant Title : VOC Analysis

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

Peak Number 5 Hexanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	27.91 ug/L	960727	Chlorobenzene-d5	8.89

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal		100	C6H12O	000066-25-1	90
2	Hexanal		100	C6H12O	000066-25-1	90
3	Hexanal		100	C6H12O	000066-25-1	90
4	Hexanal		100	C6H12O	000066-25-1	90
5	Glutaraldehyde		100	C5H8O2	000111-30-8	43



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV052819\
Data File : VV011088.D
Acq On : 29 May 2019 04:31
Operator : SY/MD
Sample : K3016-17
Misc : 5.61G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51D4

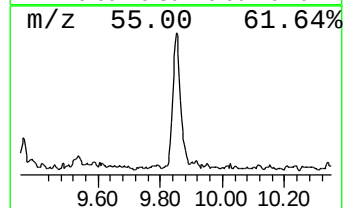
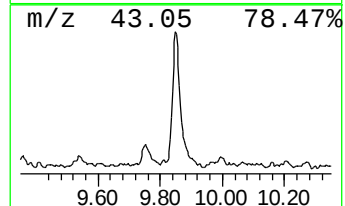
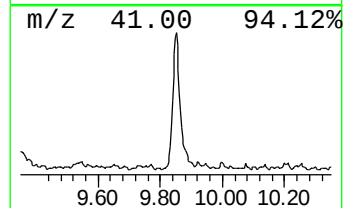
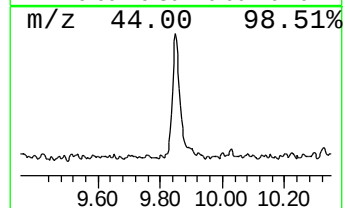
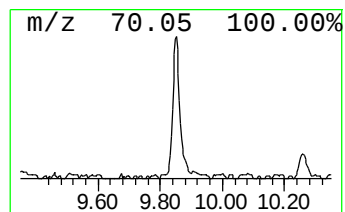
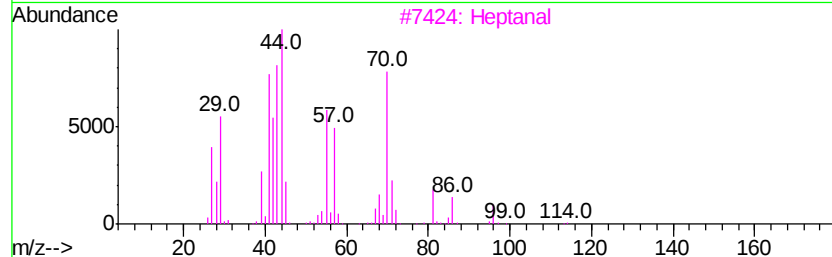
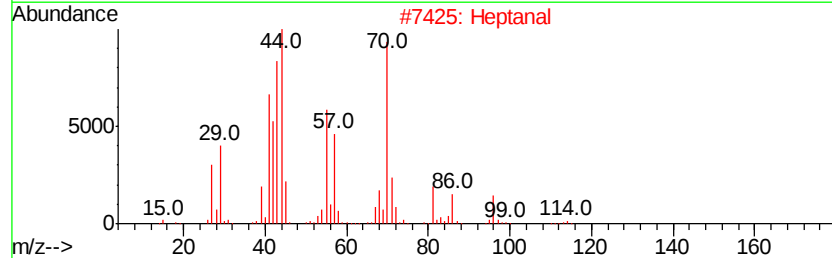
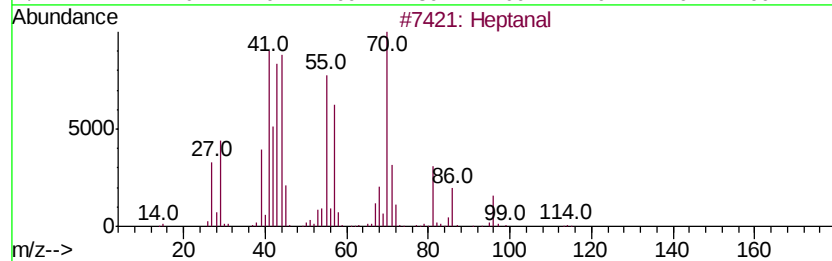
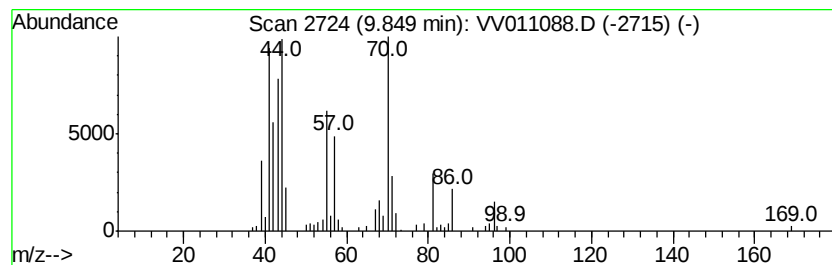
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Quant Title : VOC Analysis

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

Peak Number 6 Heptanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	2.24 ug/L	77098	Chlorobenzene-d5	8.89

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal		114	C7H14O	000111-71-7	91
2	Heptanal		114	C7H14O	000111-71-7	90
3	Heptanal		114	C7H14O	000111-71-7	86
4	Heptanal		114	C7H14O	000111-71-7	59
5	Heptanal		114	C7H14O	000111-71-7	53



Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052819\
Data File : VV011088.D
Acq On : 29 May 2019 04:31
Operator : SY/MD
Sample : K3016-17
Misc : 5.61G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51D4

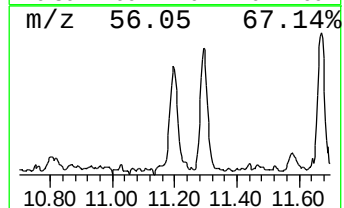
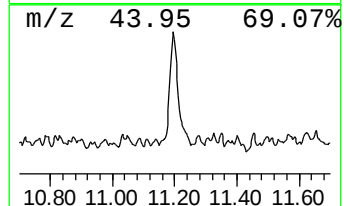
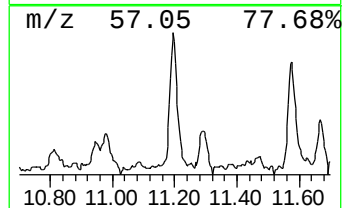
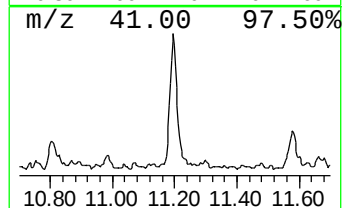
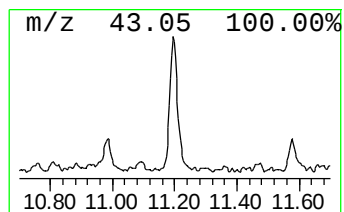
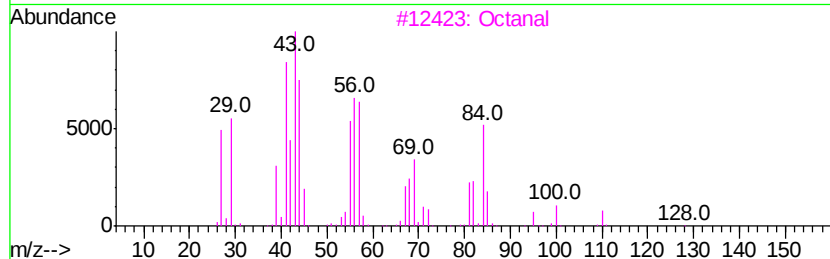
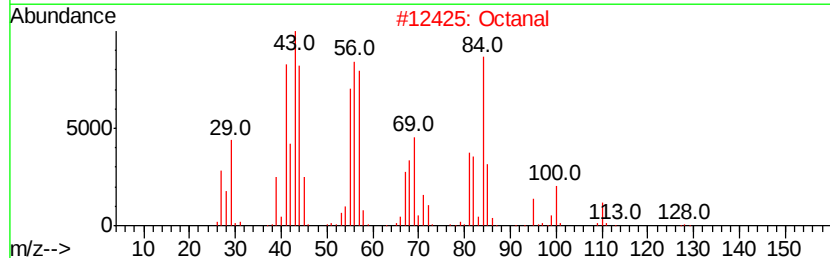
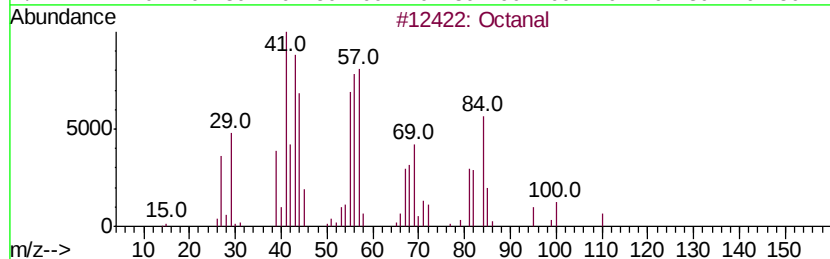
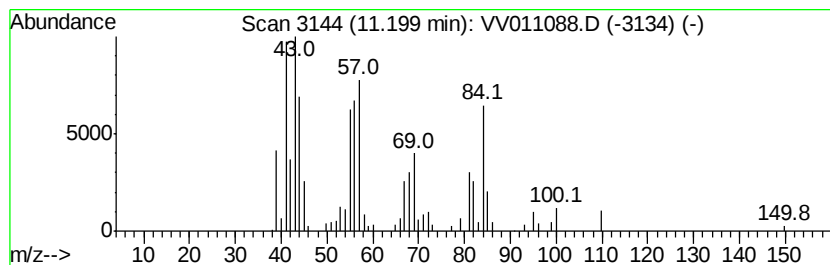
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

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

Peak Number 8 Octanal Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	3.32 ug/L	78279	1,4-Dichlorobenzene-d4	11.30

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal		128	C8H16O	000124-13-0	91
2	Octanal		128	C8H16O	000124-13-0	91
3	Octanal		128	C8H16O	000124-13-0	91
4	Octanal		128	C8H16O	000124-13-0	91
5	2-Propanone, dimethylhydrazone		100	C5H12N2	013483-31-3	47



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011088.D
Acq On : 29 May 2019 04:31
Operator : SY/MD
Sample : K3016-17
Misc : 5.61G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
A51D4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.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	1.20	1.3	ug/L	40652	1	5.66	786386	25.0
Butanal	3.74	1.8	ug/L	55053	1	5.66	786386	25.0
Pentanal	6.33	5.3	ug/L	165110	1	5.66	786386	25.0
Hexanal	8.28	27.9	ug/L	960727	2	8.89	860635	25.0
Heptanal	9.85	2.2	ug/L	77098	2	8.89	860635	25.0
Octanal	11.20	3.3	ug/L	78279	3	11.30	589404	25.0