LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.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	1.315	65	70	77	rVB	176559	157460	10.97%	1.448%
2	1.389	88	93	102	rVB	98977	95979	6.68%	0.883%
3	2.122	313	321	332	rVB2	277047	402493	28.03%	3.701%
4	2.190	335	342	356	rVB	161348	230485	16.05%	2.120%
5	2.457	419	425	440	rVB	128708	202260	14.09%	1.860%
6	2.840	542	544	547	rVB2	1230	477	0.03%	0.004%
7	2.868	547	553	559	rBV10	1254	1865	0.13%	0.017%
8	3.341	698	700	702	rBV3	712	430	0.03%	0.004%
9	3.351	702	703	704	rVB	815	178	0.01%	0.002%
10	3.396	715	717	718	rBV2	708	389	0.03%	0.004%
11	3.431	726	728	733	rVB5	1144	913	0.06%	0.008%
12	3.508	750	752	756	rBV5	993	791	0.06%	0.007%
13	3.595	777	779	785	rVB6	1247	1136	0.08%	0.010%
14	3.624	785	788	790	rBV3	587	360	0.03%	0.003%
15	3.650	794	796	797	rVB	433	104	0.01%	0.001%
16	3.672	801	803	806	rVB3	876	504	0.04%	0.005%
17	3.701	810	812	814	rBV3	406	250	0.02%	0.002%
18	3.746	814	826	845	rBV2	32099	79316	5.52%	0.729%
19	3.939	875	886	906	rBV	60862	161969	11.28%	1.490%
20	4.177	958	960	961	rBV2	1121	458	0.03%	0.004%
21	4.296	994	997	1000	rBV5	1645	1043	0.07%	0.010%
22	4.325	1003	1006	1009	rBV4	1133	556	0.04%	0.005%
23	4.396	1009	1028	1048	rBV	201510	488584	34.03%	4.493%
24	4.778	1145	1147	1148	rBV2	959	384	0.03%	0.004%
25	4.846	1167	1168	1172	rBV3	528	451	0.03%	0.004%
26	4.868	1172	1175	1177	rVV4	707	462	0.03%	0.004%
27	4.878	1177	1178	1180	rVB2	732	227	0.02%	0.002%
28	4.910	1186	1188	1190	rVB3	506	129	0.01%	0.001%
29	4.923	1190	1192	1196	rBV5	775	580	0.04%	0.005%
30	4.958	1200	1203	1206	rBV4	987	572	0.04%	0.005%
31	4.974	1206	1208	1211	rVB5	1273	635	0.04%	0.006%
32	4.994	1211	1214	1218	rBV6	889	624	0.04%	0.006%
33	5.016	1218	1221	1223	rBV4	636	453	0.03%	0.004%
34	5.090	1223	1244	1268	rBV2	490984	1206037	84.00%	11.091%

LSC Area Percent Report

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Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Title : VOC Analysis

35	5.373	1322	1332	1347	rBV3	19650	41895	2.92%	0.385%
36	5.663	1409	1422	1444	rBV	345021	689134	48.00%	6.337%
37	5.894	1492	1494	1497	rBV3	1034	629	0.04%	0.006%
38	5.958	1503	1514	1530	rVB3	35360	70024	4.88%	0.644%
39	6.116	1550	1563	1589	rBV	287702	580048	40.40%	5.334%
40	6.328	1619	1629	1658	rBV	163446	308098	21.46%	2.833%
41	6.621	1718	1720	1722	rBV3	1062	510	0.04%	0.005%
42	6.804	1775	1777	1779	rBV2	934	478	0.03%	0.004%
43	6.894	1803	1805	1807	rBV3	981	519	0.04%	0.005%
44	6.929	1814	1816	1817	rBV	735	354	0.02%	0.003%
45	6.958	1823	1825	1826	rVB2	971	280	0.02%	0.003%
46	6.971	1826	1829	1830	rBV3	1220	692	0.05%	0.006%
47	7.026	1837	1846	1872	rVB	145302	257890	17.96%	2.372%
48	7.264	1917	1920	1922	rBV3	1065	681	0.05%	0.006%
49	7.357	1934	1949	1965	rBV	520730	929235	64.72%	8.546%
50	7.569	2013	2015	2016	rBV2	873	320	0.02%	0.003%
51	7.662	2034	2044	2058	rBV	95020	159938	11.14%	1.471%
52	7.888	2111	2114	2119	rVB5	1895	1300	0.09%	0.012%
53	7.916	2119	2123	2125	rBV3	1248	882	0.06%	0.008%
54	8.132	2178	2190	2220	rBV2	224903	440928	30.71%	4.055%
55	8.280	2225	2236	2263	rVV	873430	1435836	100.00%	13.204%
56	8.614	2338	2340	2342	rBV3	1018	341	0.02%	0.003%
57	8.810	2399	2401	2403	rBV2	1005	541	0.04%	0.005%
58	8.894	2410	2427	2451	rBV	513062	873175	60.81%	8.030%
59	9.051	2472	2476	2477	rBV3	1662	1048	0.07%	0.010%
60	9.180	2513	2516	2517	rBV2	3215	1803	0.13%	0.017%
61	9.531	2619	2625	2636	rBV6	7875	15536	1.08%	0.143%
62	9.723	2683	2685	2686	rBV2	1339	533	0.04%	0.005%
63	9.849	2716	2724	2741	rBV	70484	117705	8.20%	1.082%
64	10.154	2817	2819	2821	rBV3	1217	604	0.04%	0.006%
65	10.260	2840	2852	2868	rBV	264520	407230	28.36%	3.745%
66	10.559	2936	2945	2956	rVB7	10711	22598	1.57%	0.208%
67	10.624	2956	2965	2977	rBV3	18200	33734	2.35%	0.310%
68	11.196	3135	3143	3161	rVB2	48852	85376	5.95%	0.785%
69	11.296	3162	3174	3192	rVB	378028	617975	43.04%	5.683%
70	11.502	3236	3238	3239	rBV2	1119	559	0.04%	0.005%
71	11.575	3252	3261	3277	rBV3	9415	20071	1.40%	0.185%

LSC Area Percent Report

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Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

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

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

Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Title : VOC Analysis

72	11.672	3279	3291	3303	rBV	368964	588142	40.96%	5.409%
73	12.055	3404	3410	3426	rVB5	18287	32370	2.25%	0.298%
74	12.392	3504	3515	3528	rBV2	34888	61645	4.29%	0.567%
75	12.791	3628	3639	3648	rBV5	7607	15320	1.07%	0.141%
76	12.926	3674	3681	3692	rVB5	3975	6638	0.46%	0.061%
77	13.087	3728	3731	3734	rBV4	1622	1348	0.09%	0.012%
78	13.309	3798	3800	3802	rBV3	1224	694	0.05%	0.006%
79	13.357	3812	3815	3816	rBV2	1489	792	0.06%	0.007%
80	13.611	3888	3894	3895	rBV5	1289	1070	0.07%	0.010%
81	13.698	3918	3921	3922	rBV3	950	555	0.04%	0.005%
82	13.733	3929	3932	3936	rBV6	2361	2326	0.16%	0.021%
83	13.862	3968	3972	3974	rBV4	1833	1543	0.11%	0.014%
84	14.685	4222	4228	4232	rBV8	2639	3344	0.23%	0.031%
85	14.797	4258	4263	4265	rBV5	1390	1121	0.08%	0.010%

Sum of corrected areas: 10873962

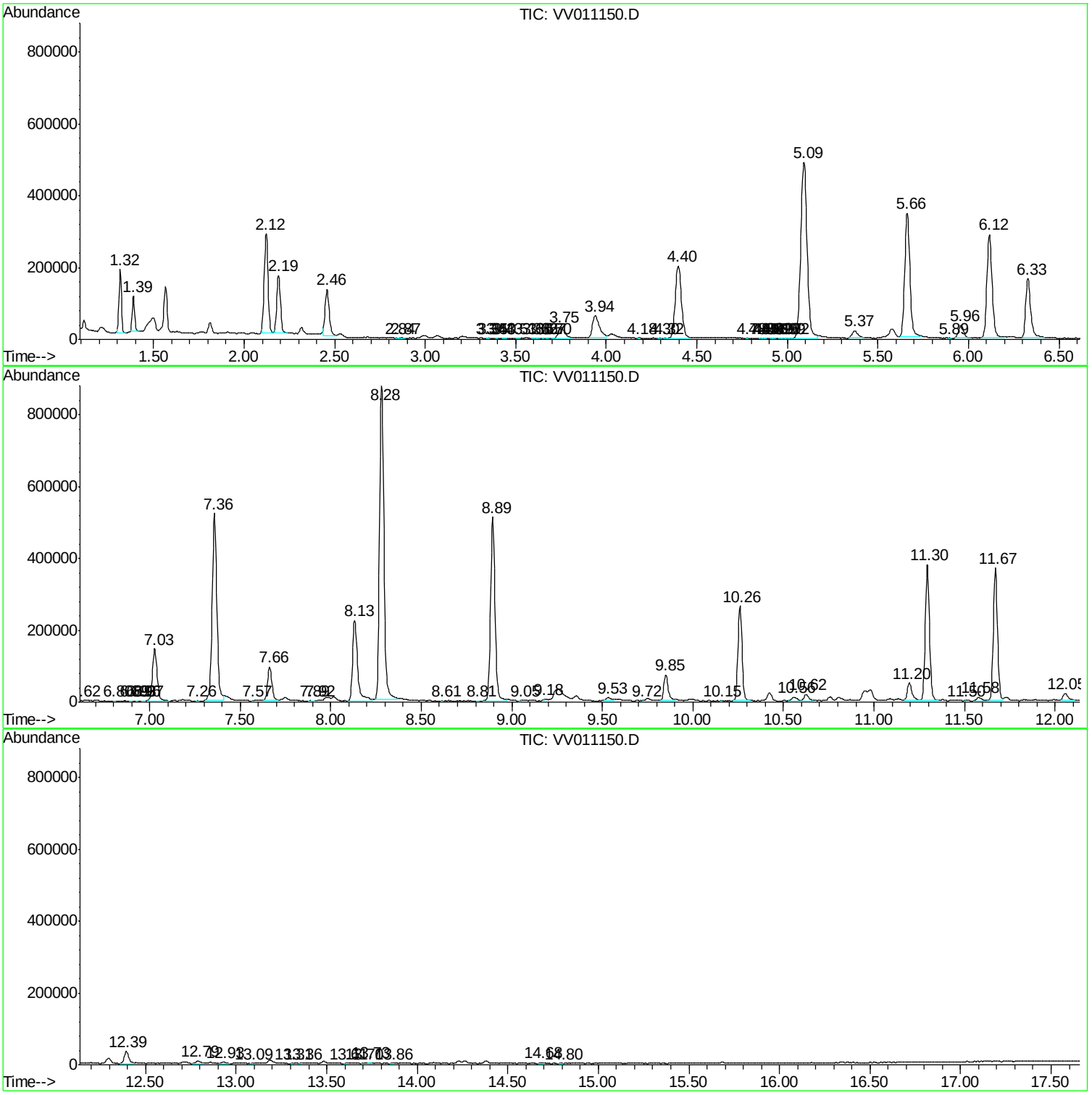
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

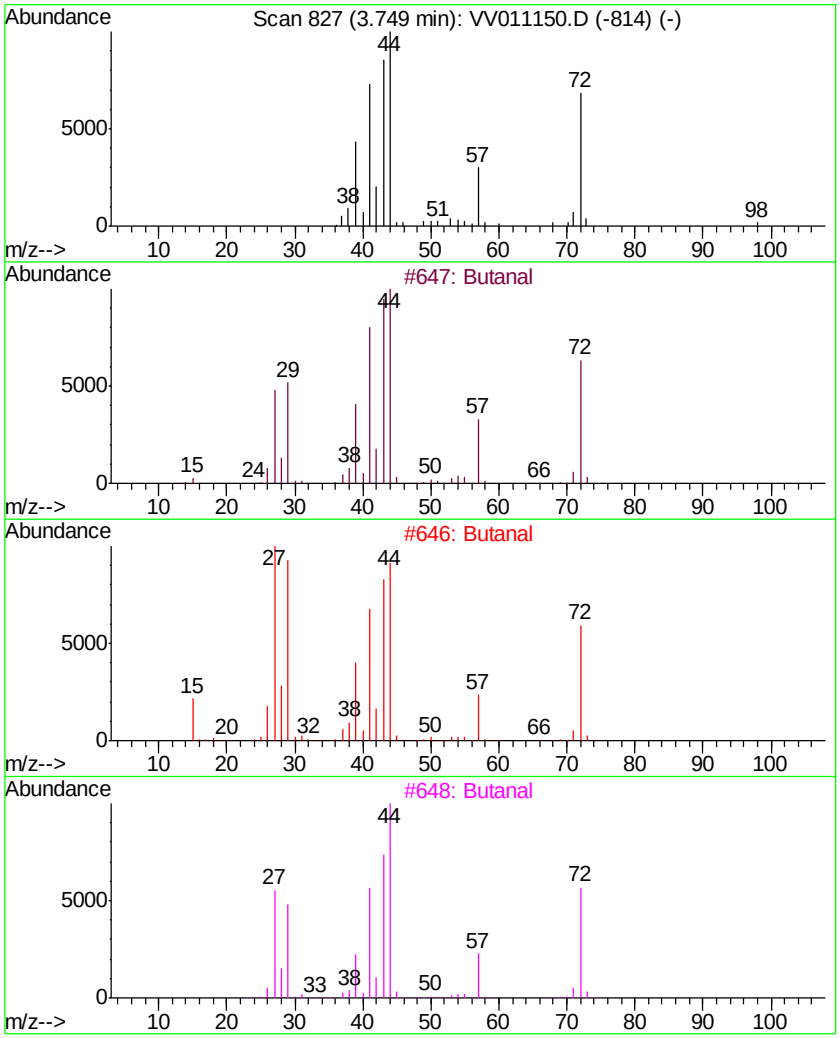
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

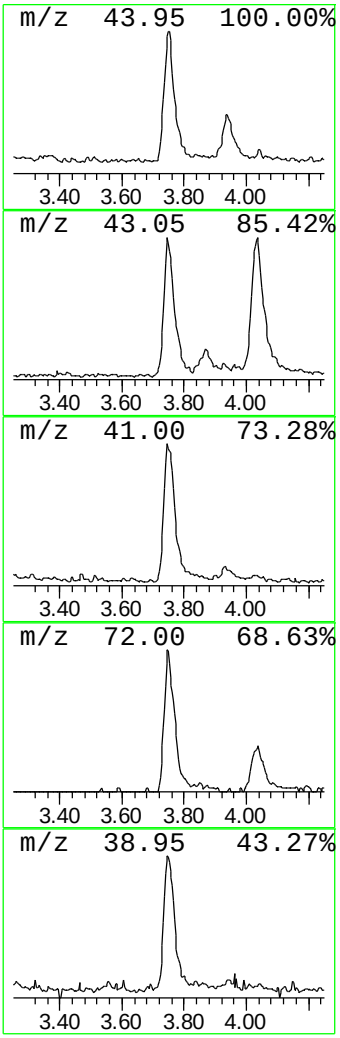
****

Peak Number 2 Butanal Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.75	2.88 ug/L	79316	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal	72	C4H8O	000123-72-8	91
2	Butanal	72	C4H8O	000123-72-8	91
3	Butanal	72	C4H8O	000123-72-8	68
4	Butanal	72	C4H8O	000123-72-8	58
5	Ethene, ethoxy-	72	C4H8O	000109-92-2	47





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

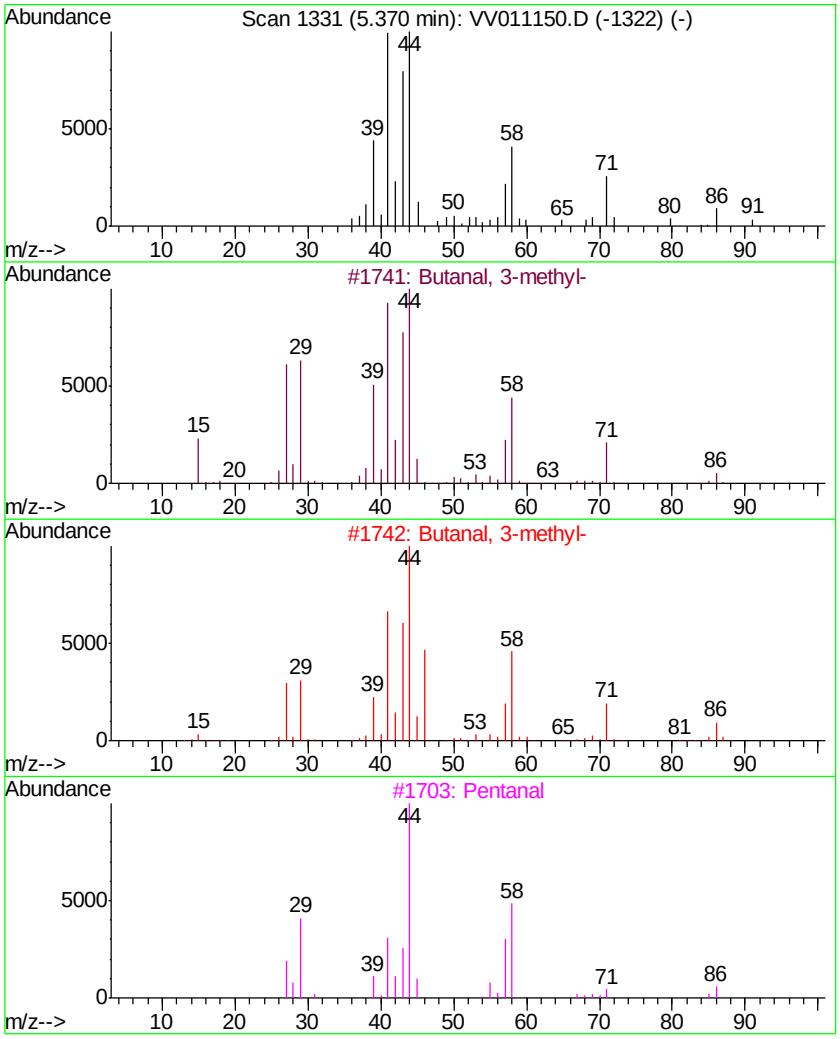
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

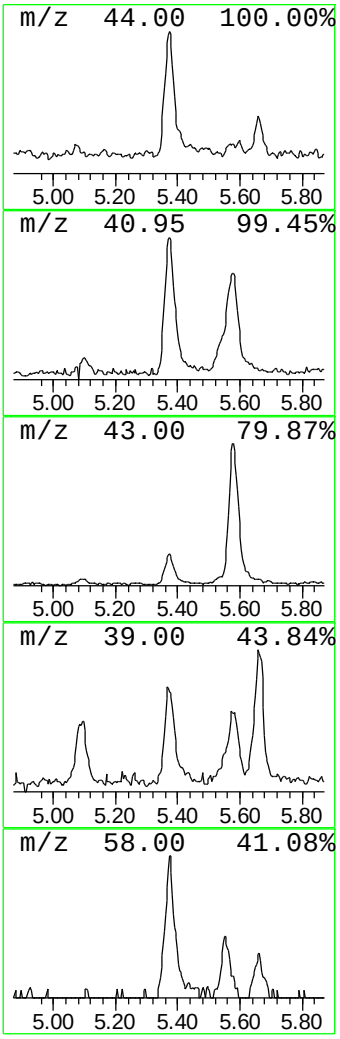
****

Peak Number 3 Butanal, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.37	1.52 ug/L	41895	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanal, 3-methyl-	86	C5H10O	000590-86-3	90
2	Butanal, 3-methyl-	86	C5H10O	000590-86-3	58
3	Pentanal	86	C5H10O	000110-62-3	47
4	Butanal, 3-methyl-	86	C5H10O	000590-86-3	43
5	Butanal, 3-methyl-	86	C5H10O	000590-86-3	32





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

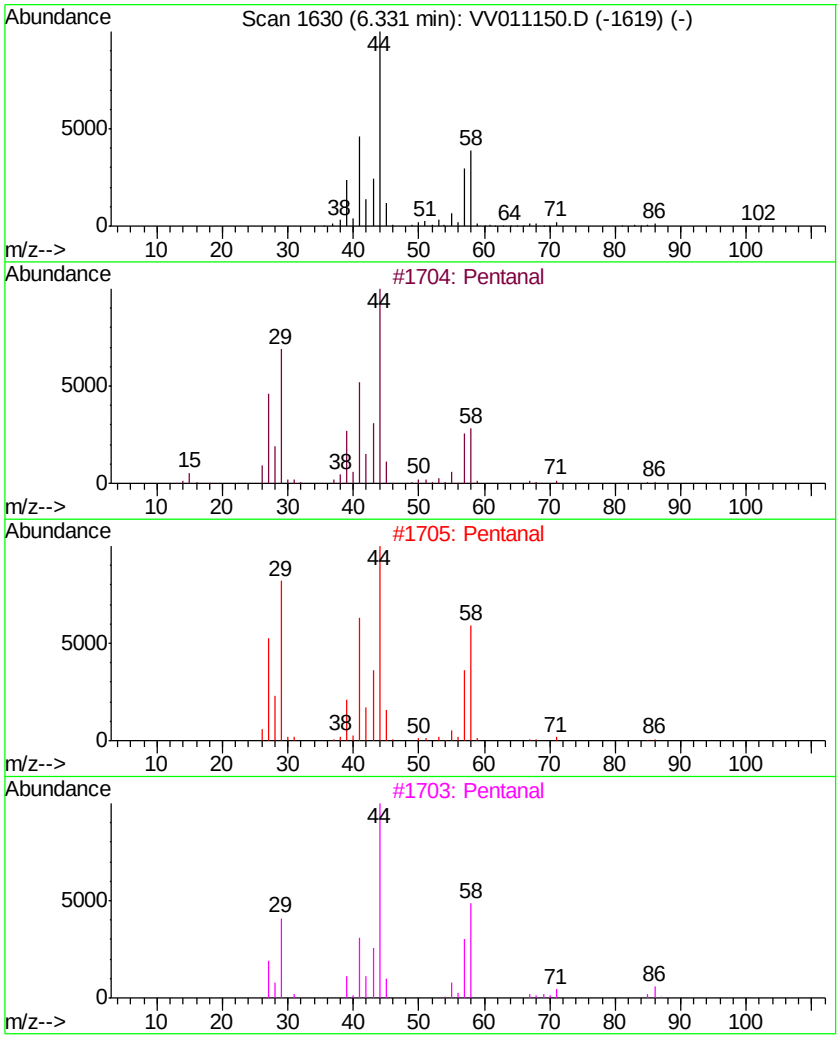
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

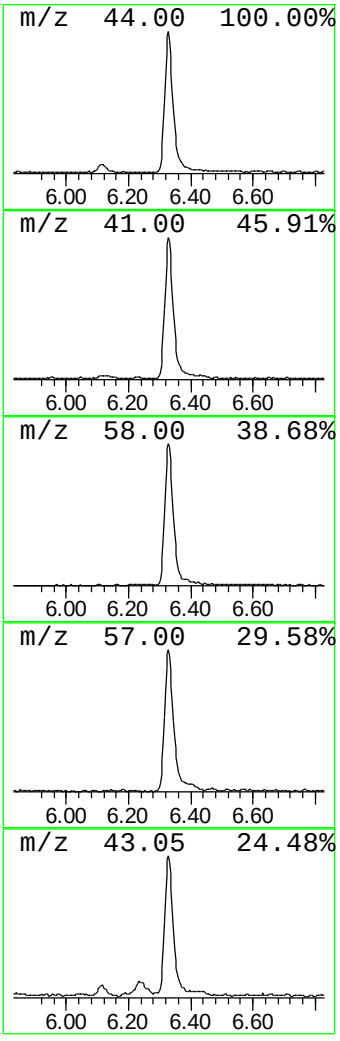
****

Peak Number 4 Pentanal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.33	11.18 ug/L	308098	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanal	86	C5H10O	000110-62-3	90
2	Pentanal	86	C5H10O	000110-62-3	83
3	Pentanal	86	C5H10O	000110-62-3	78
4	Butanal, 3-methyl-	86	C5H10O	000590-86-3	64
5	Cyclopropyl carbinol	72	C4H8O	002516-33-8	59





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
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ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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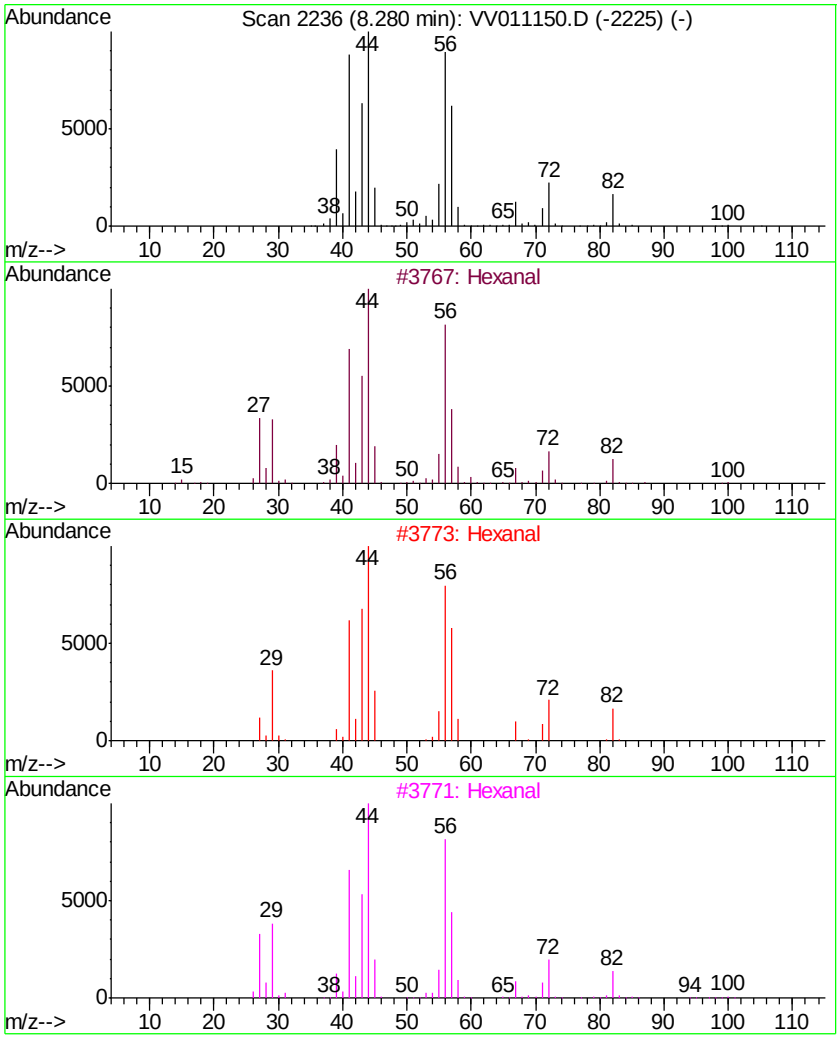
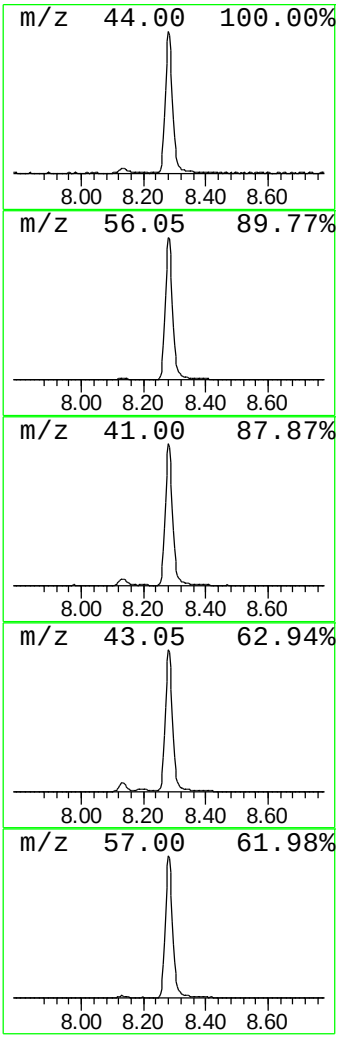
Peak Number 6 Hexanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	41.11 ug/L	1435840	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	87
2	Hexanal	100	C6H12O	000066-25-1	80
3	Hexanal	100	C6H12O	000066-25-1	80
4	Hexanal	100	C6H12O	000066-25-1	80
5	2,2-Dimethyl-3-hydroxypropionald...	102	C5H10O2	000597-31-9	25





Library Search Compound Report

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ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

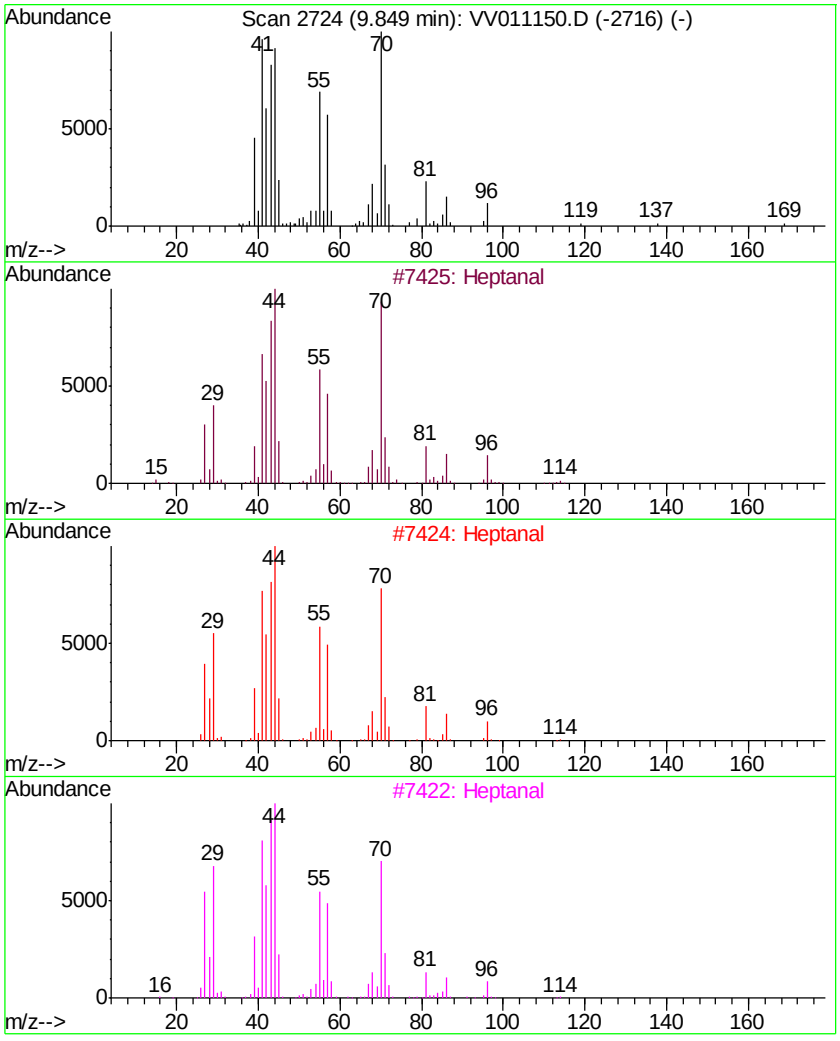
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

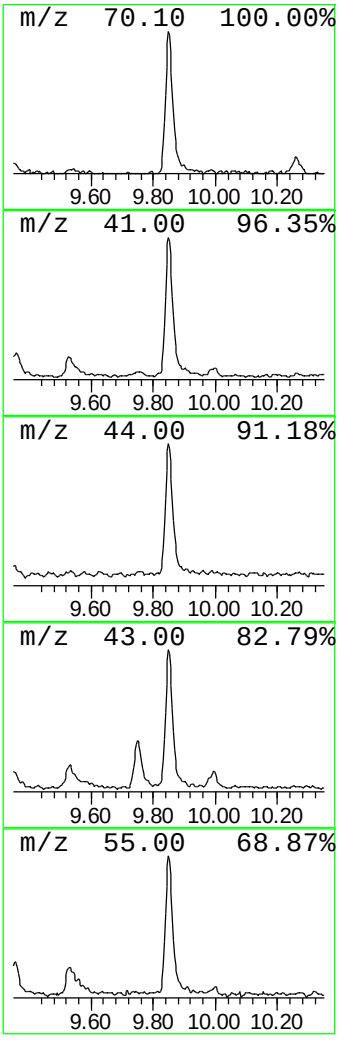
****

Peak Number 7 Heptanal Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.85	3.37 ug/L	117705	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptanal	114	C7H14O	000111-71-7	90
2	Heptanal	114	C7H14O	000111-71-7	90
3	Heptanal	114	C7H14O	000111-71-7	83
4	Heptanal	114	C7H14O	000111-71-7	83
5	Heptanal	114	C7H14O	000111-71-7	80





Library Search Compound Report

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Acq On : 30 May 2019 21:56
Operator : SY/MD
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Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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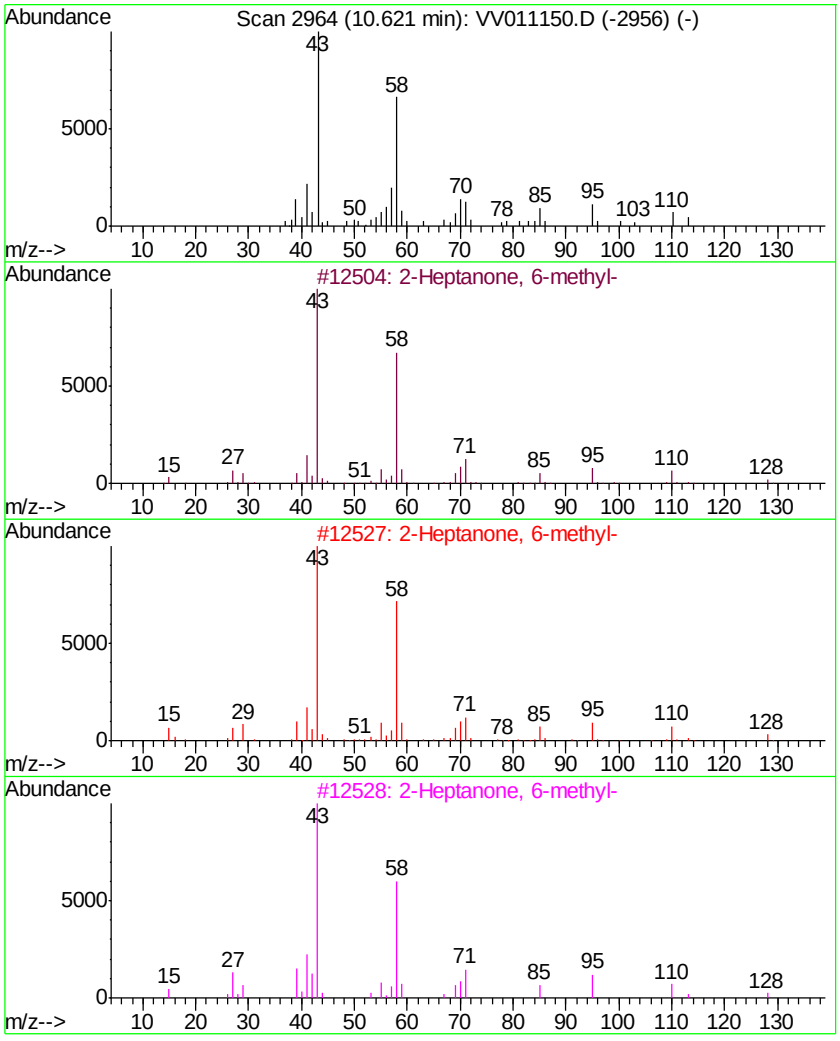
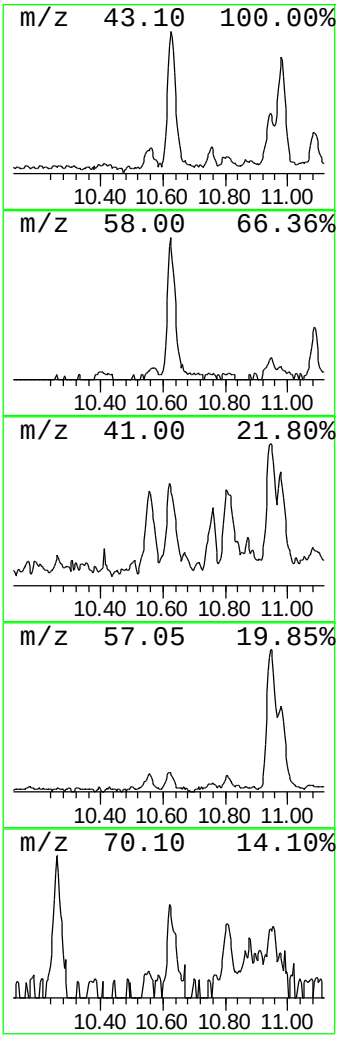
Peak Number 8 2-Heptanone, 6-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.62	1.36 ug/L	33734	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	90
2	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	72
3	2-Heptanone, 6-methyl-	128	C8H16O	000928-68-7	72
4	2-Hexanone, 4-hydroxy-5-methyl-3...	172	C10H20O2	061141-74-0	59
5	2-Hexanone	100	C6H12O	000591-78-6	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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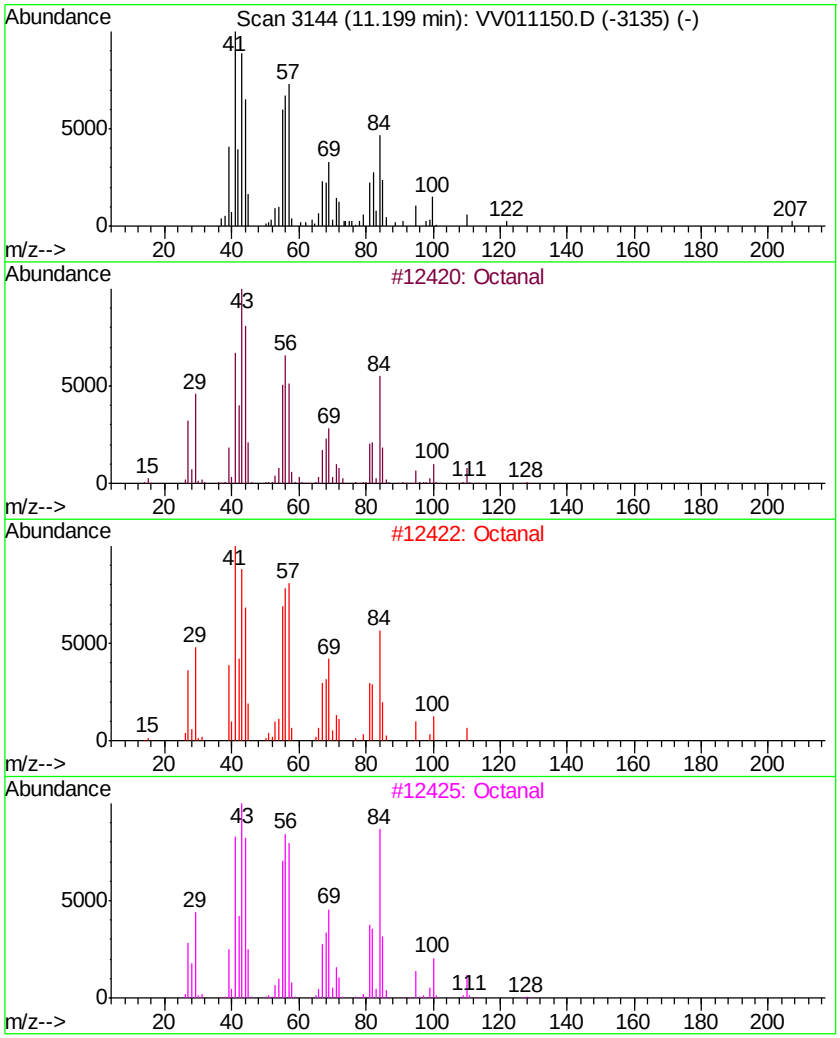
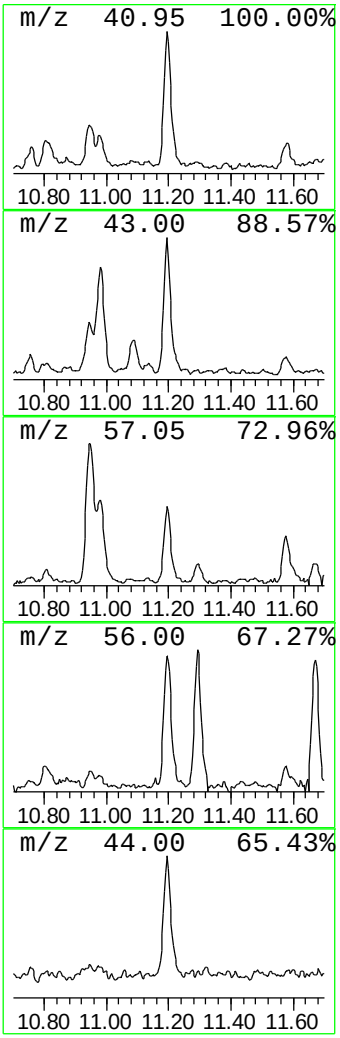
Peak Number 9 Octanal Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.20	3.45 ug/L	85376	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octanal	128	C8H16O	000124-13-0	90
2	Octanal	128	C8H16O	000124-13-0	87
3	Octanal	128	C8H16O	000124-13-0	83
4	Octanal	128	C8H16O	000124-13-0	80
5	Cyclopentanol, 2-methyl-, cis-	100	C6H12O	025144-05-2	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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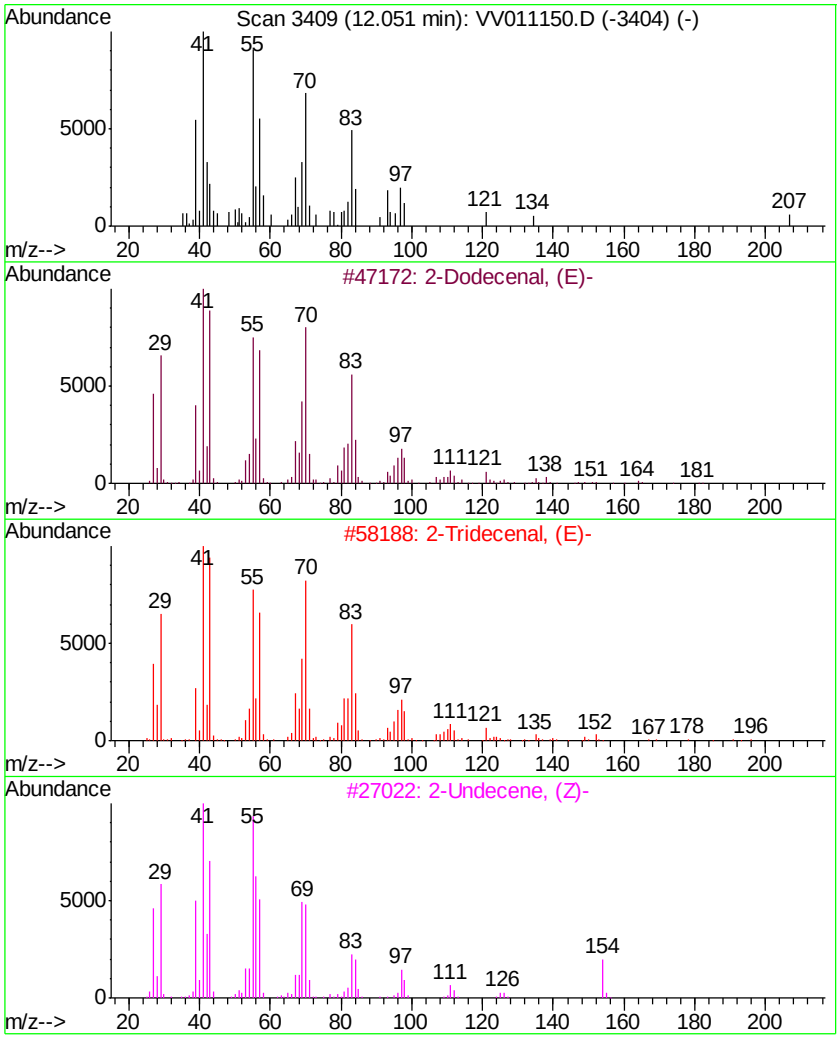
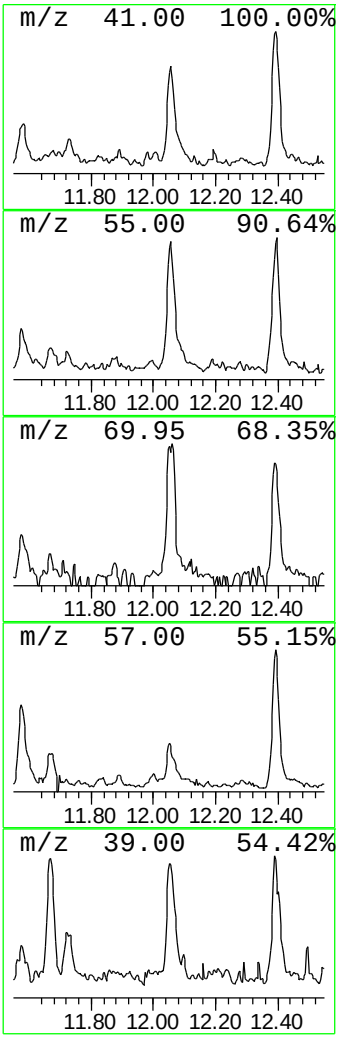
Peak Number 10 2-Dodecenal, (E)- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	1.31 ug/L	32370	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dodecenal, (E)-	182	C12H22O	020407-84-5	64
2	2-Tridecenal, (E)-	196	C13H24O	007069-41-2	64
3	2-Undecene, (Z)-	154	C11H22	000821-96-5	58
4	1-Decanol	158	C10H22O	000112-30-1	50
5	3-Methyldec-3-ene	154	C11H22	036969-75-2	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

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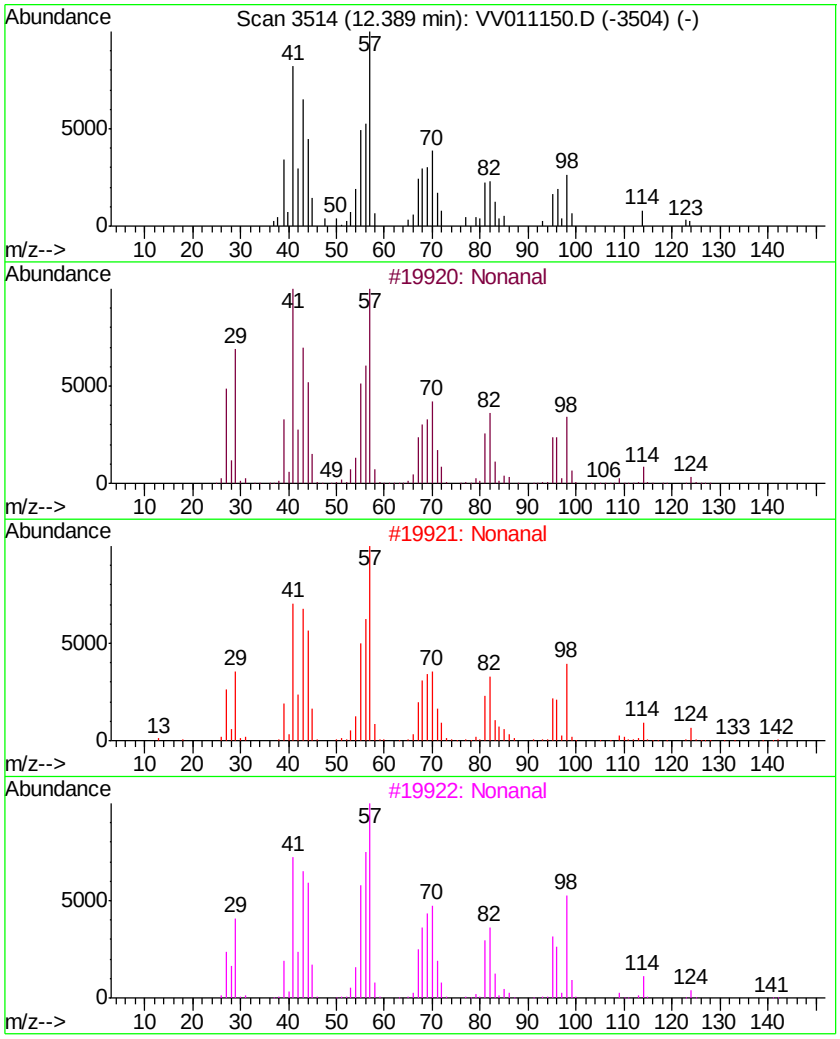
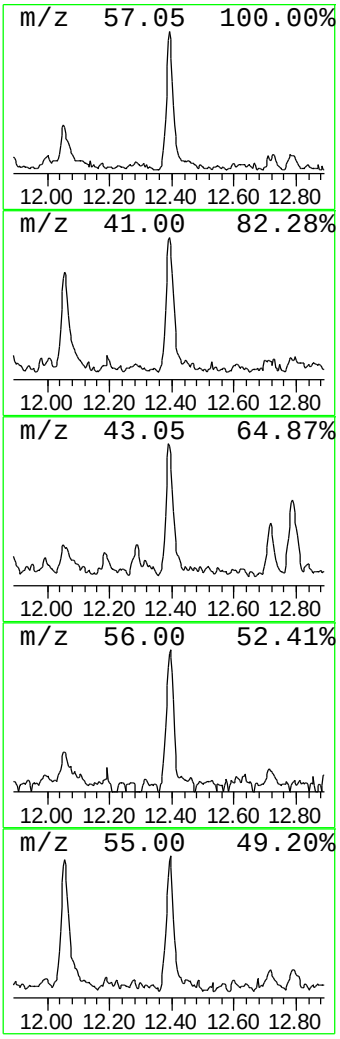
Peak Number 11 Nonanal Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	2.49 ug/L	61645	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonanal	142	C9H18O	000124-19-6	90
2	Nonanal	142	C9H18O	000124-19-6	90
3	Nonanal	142	C9H18O	000124-19-6	78
4	Nonanal	142	C9H18O	000124-19-6	64
5	Cyclohexanol, 2-methyl-, trans-	114	C7H14O	007443-52-9	41





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV053019\
Data File : VV011150.D
Acq On : 30 May 2019 21:56
Operator : SY/MD
Sample : K3083-02
Misc : 4.76G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51F4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butanal	3.75	2.9	ug/L	79316	1	5.66	689134	25.0
Butanal, 3-methyl-	5.37	1.5	ug/L	41895	1	5.66	689134	25.0
Pentanal	6.33	11.2	ug/L	308098	1	5.66	689134	25.0
Hexanal	8.28	41.1	ug/L	1435840	2	8.89	873175	25.0
Heptanal	9.85	3.4	ug/L	117705	2	8.89	873175	25.0
2-Heptanone, 6-me...	10.62	1.4	ug/L	33734	3	11.30	617975	25.0
Octanal	11.20	3.5	ug/L	85376	3	11.30	617975	25.0
2-Dodecenal, (E)-	12.05	1.3	ug/L	32370	3	11.30	617975	25.0
Nonanal	12.39	2.5	ug/L	61645	3	11.30	617975	25.0