LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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\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	1.312	64	69	77	rVB	215306	195014	16.42%	2.377%
2	1.807	217	223	234	rVB	145358	179082	15.08%	2.183%
3	2.119	312	320	331	rVB	309708	432153	36.39%	5.267%
4	2.187	335	341	355	rVB	156235	221401	18.65%	2.699%
5	2.942	572	576	578	rBV4	1236	813	0.07%	0.010%
6	3.145	638	639	644	rBV4	1028	714	0.06%	0.009%
7	3.325	693	695	697	rVB2	825	394	0.03%	0.005%
8	3.447	731	733	735	rBV3	1098	495	0.04%	0.006%
9	3.611	780	784	786	rBV3	1400	1229	0.10%	0.015%
10	3.685	803	807	810	rBV6	681	595	0.05%	0.007%
11	3.743	813	825	847	rBV	116897	279262	23.52%	3.404%
12	3.936	875	885	904	rBV	48517	123441	10.40%	1.505%
13	4.248	977	982	987	rBV6	1527	1886	0.16%	0.023%
14	4.396	1009	1028	1050	rBV2	209830	561125	47.25%	6.839%
15	4.936	1195	1196	1197	rBV	951	275	0.02%	0.003%
16	4.978	1206	1209	1211	rVB3	901	510	0.04%	0.006%
17	5.000	1211	1216	1218	rBV5	1020	694	0.06%	0.008%
18	5.016	1218	1221	1225	rVB6	1508	813	0.07%	0.010%
19	5.090	1225	1244	1269	rBV2	477852	1187445	100.00%	14.473%
20	5.659	1410	1421	1451	rVB	364021	725064	61.06%	8.837%
21	5.994	1519	1525	1536	rBV3	14766	28598	2.41%	0.349%
22	6.116	1552	1563	1585	rVB2	263001	524233	44.15%	6.390%
23	6.331	1620	1630	1645	rBV	48025	90873	7.65%	1.108%
24	6.649	1724	1729	1730	rBV5	2746	2537	0.21%	0.031%
25	6.813	1779	1780	1781	rBV	509	162	0.01%	0.002%
26	6.836	1784	1787	1790	rBV4	1193	899	0.08%	0.011%
27	6.891	1797	1804	1806	rBV7	1126	1114	0.09%	0.014%
28	6.916	1810	1812	1813	rVV2	558	197	0.02%	0.002%
29	6.942	1817	1820	1823	rBV3	903	768	0.06%	0.009%
30	7.029	1836	1847	1869	rVB	141496	252756	21.29%	3.081%
31	7.280	1917	1925	1929	rBV8	3242	5342	0.45%	0.065%
32	7.357	1932	1949	1963	rVV	464387	860067	72.43%	10.483%
33	7.662	2035	2044	2063	rVB	84980	143185	12.06%	1.745%
34	7.977	2130	2142	2151	rBV6	16948	38124	3.21%	0.465%

LSC Area Percent Report

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Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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\SOM2VLM052819S.M
Title : VOC Analysis

35	8.132	2180	2190	2219	rBV	164936	299056	25.18%	3.645%
36	8.280	2227	2236	2261	rBV	335163	547448	46.10%	6.672%
37	8.492	2298	2302	2305	rBV5	1414	1567	0.13%	0.019%
38	8.588	2328	2332	2336	rBV6	1790	1642	0.14%	0.020%
39	8.659	2352	2354	2356	rBV2	782	477	0.04%	0.006%
40	8.669	2356	2357	2359	rVV2	994	311	0.03%	0.004%
41	8.739	2376	2379	2381	rBV3	866	435	0.04%	0.005%
42	8.762	2384	2386	2388	rVV2	853	459	0.04%	0.006%
43	8.810	2398	2401	2405	rVB5	977	690	0.06%	0.008%
44	8.829	2405	2407	2411	rBV3	951	690	0.06%	0.008%
45	8.894	2411	2427	2451	rBV	363867	623130	52.48%	7.595%
46	9.527	2616	2624	2637	rBV2	32836	76108	6.41%	0.928%
47	9.948	2744	2755	2775	rVB3	27574	60176	5.07%	0.733%
48	10.183	2819	2828	2832	rBV9	4981	7538	0.63%	0.092%
49	10.373	2885	2887	2888	rBV2	836	320	0.03%	0.004%
50	10.421	2896	2902	2915	rVB3	16887	27708	2.33%	0.338%
51	10.489	2921	2923	2926	rVB3	1021	378	0.03%	0.005%
52	10.723	2988	2996	2999	rBV7	4661	6101	0.51%	0.074%
53	11.292	3164	3173	3191	rVB3	158779	275872	23.23%	3.362%
54	11.579	3256	3262	3271	rBV8	5912	10196	0.86%	0.124%
55	11.672	3280	3291	3303	rBV	118107	199447	16.80%	2.431%
56	11.823	3332	3338	3342	rBV6	3649	4984	0.42%	0.061%
57	12.292	3476	3484	3494	rBV	16826	26736	2.25%	0.326%
58	12.395	3507	3516	3527	rBV8	9758	19526	1.64%	0.238%
59	12.505	3547	3550	3552	rBV3	1426	875	0.07%	0.011%
60	12.575	3568	3572	3574	rBV3	807	649	0.05%	0.008%
61	12.591	3574	3577	3581	rBV6	1376	1070	0.09%	0.013%
62	12.627	3586	3588	3590	rBV3	929	482	0.04%	0.006%
63	12.781	3626	3636	3646	rBV3	7641	14906	1.26%	0.182%
64	12.929	3674	3682	3691	rBV10	2970	4718	0.40%	0.058%
65	13.032	3711	3714	3721	rVB6	1634	2080	0.18%	0.025%
66	13.064	3721	3724	3725	rBV2	1068	532	0.04%	0.006%
67	13.080	3726	3729	3732	rBV5	883	709	0.06%	0.009%
68	13.132	3744	3745	3752	rBV6	923	678	0.06%	0.008%
69	13.212	3759	3770	3780	rBV7	12221	22665	1.91%	0.276%
70	13.382	3820	3823	3825	rBV3	824	522	0.04%	0.006%
71	13.588	3884	3887	3890	rBV4	941	917	0.08%	0.011%

LSC Area Percent Report

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Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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\SOM2VLM052819S.M
Title : VOC Analysis

72	13.630	3893	3900	3901	rBV7	5397	4770	0.40%	0.058%
73	13.849	3966	3968	3970	rBV3	985	519	0.04%	0.006%
74	13.945	3995	3998	3999	rBV3	1034	650	0.05%	0.008%
75	14.045	4024	4029	4031	rBV4	930	1075	0.09%	0.013%
76	14.090	4032	4043	4057	rVV2	49287	88723	7.47%	1.081%
77	14.305	4107	4110	4113	rBV5	1110	967	0.08%	0.012%
78	14.379	4124	4133	4135	rBV8	3079	3777	0.32%	0.046%
79	14.514	4174	4175	4178	rBV3	876	380	0.03%	0.005%
80	14.617	4205	4207	4208	rBV	691	338	0.03%	0.004%
81	14.739	4243	4245	4246	rBV2	845	308	0.03%	0.004%

Sum of corrected areas: 8204565

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
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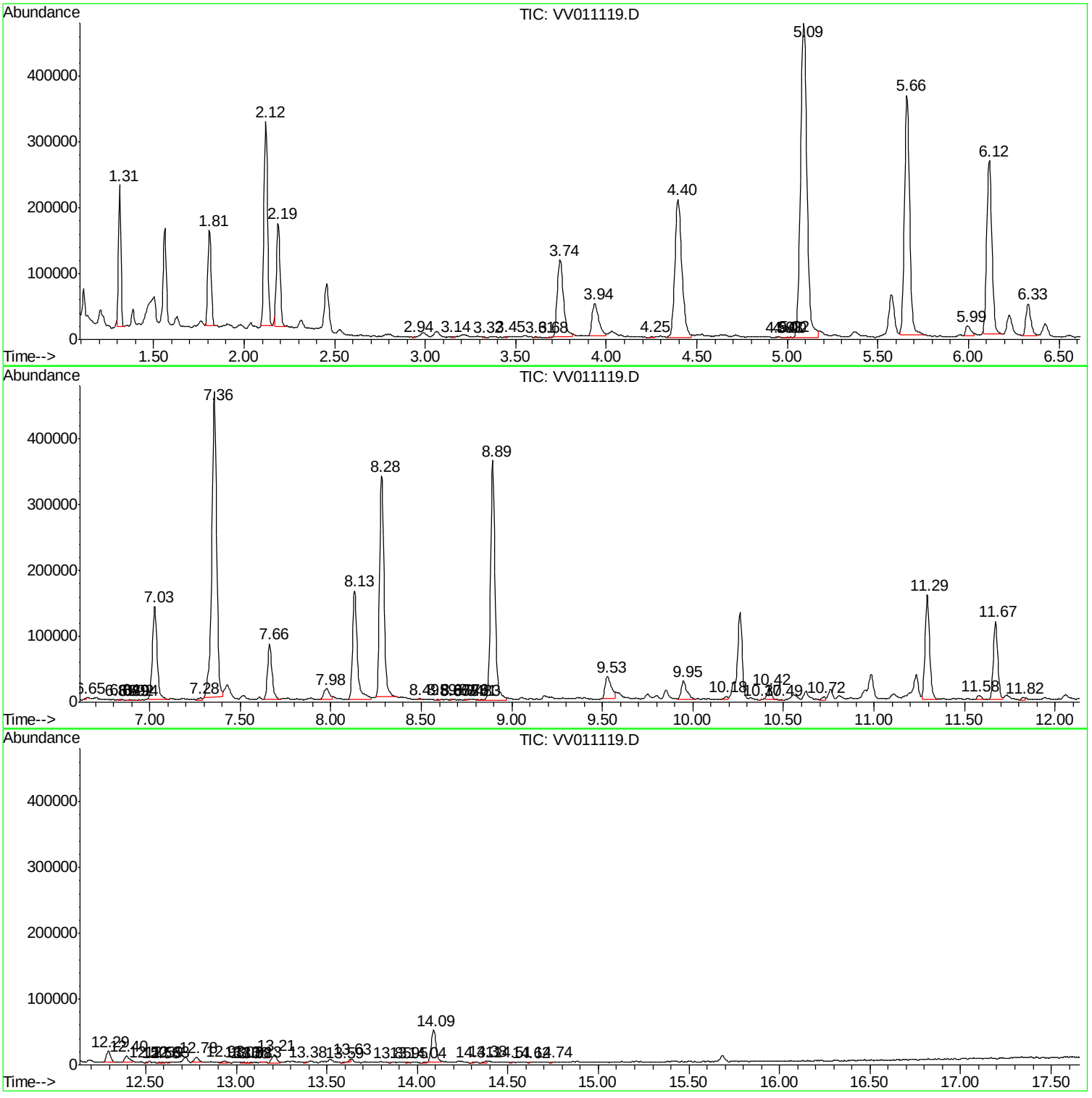
Instrument :
MSVOA_V
ClientSampleId :
A51E2

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

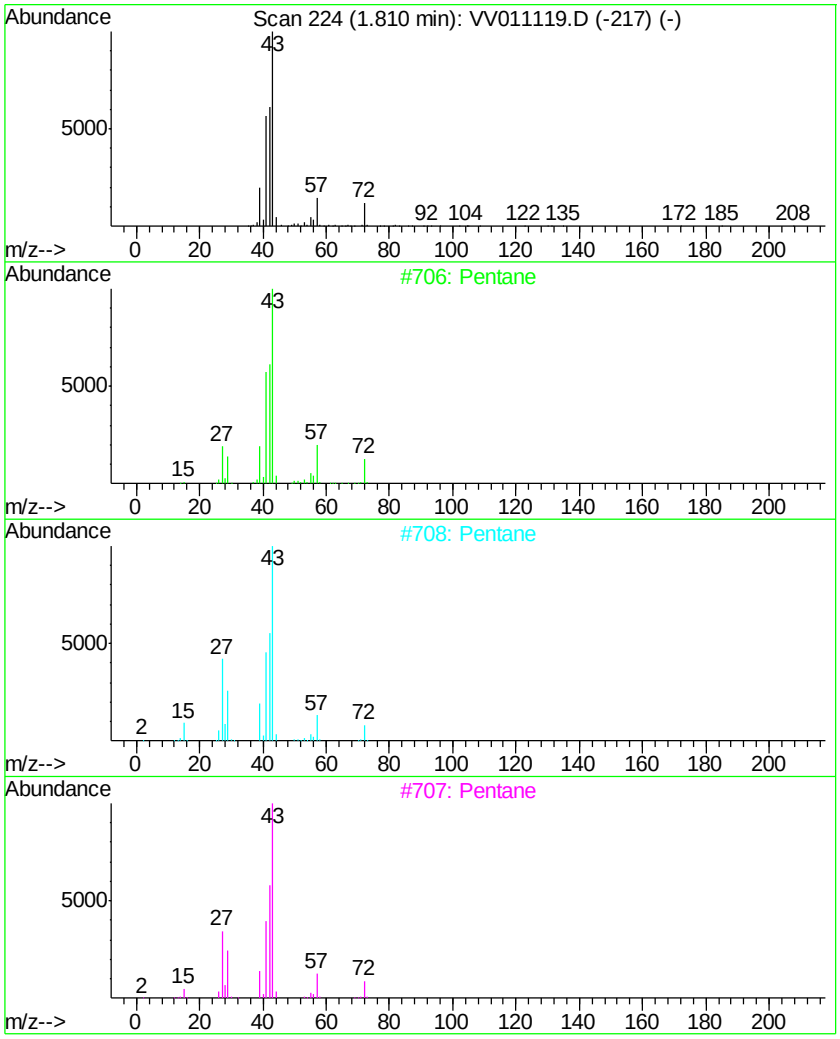
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

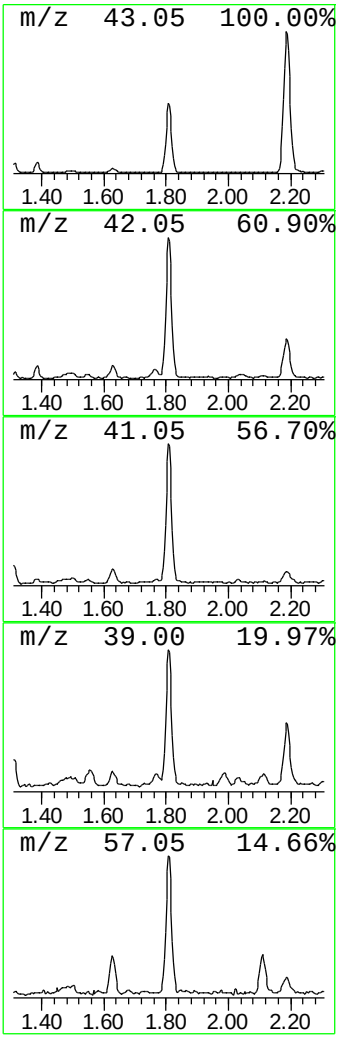
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.81	6.17 ug/L	179082	1,4-Difluorobenzene	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	90
2	Pentane	72	C5H12	000109-66-0	86
3	Pentane	72	C5H12	000109-66-0	80
4	Pentane	72	C5H12	000109-66-0	80
5	Oxirane, ethyl-	72	C4H8O	000106-88-7	50





Library Search Compound Report

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Data File : VV011119.D
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Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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

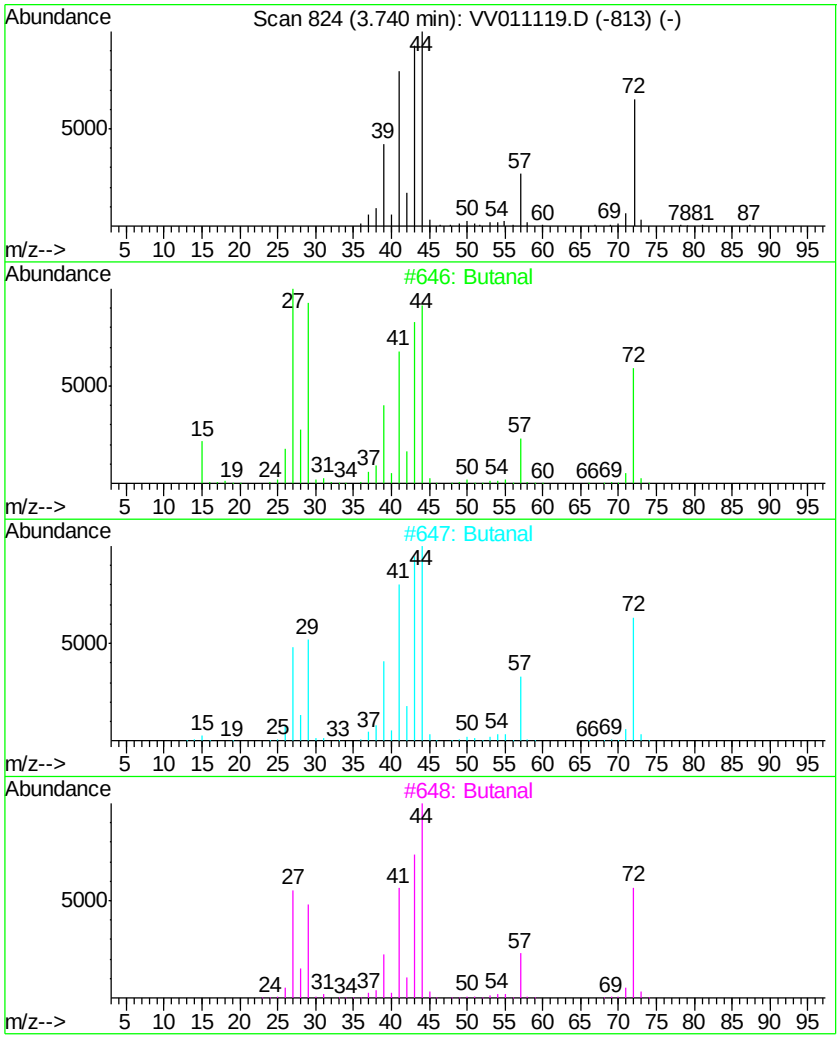
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

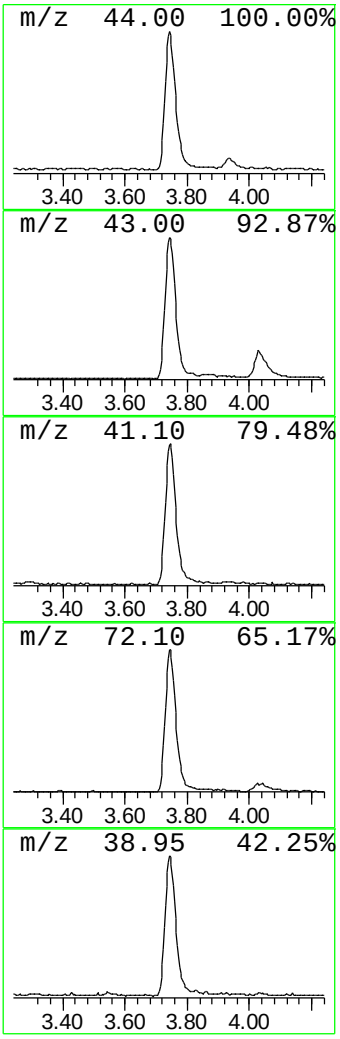
****

Peak Number 2 Butanal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.74	9.63 ug/L	279262	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	64
4	Propanal, 2-methyl-	72	C4H8O	000078-84-2	52
5	Butanal	72	C4H8O	000123-72-8	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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

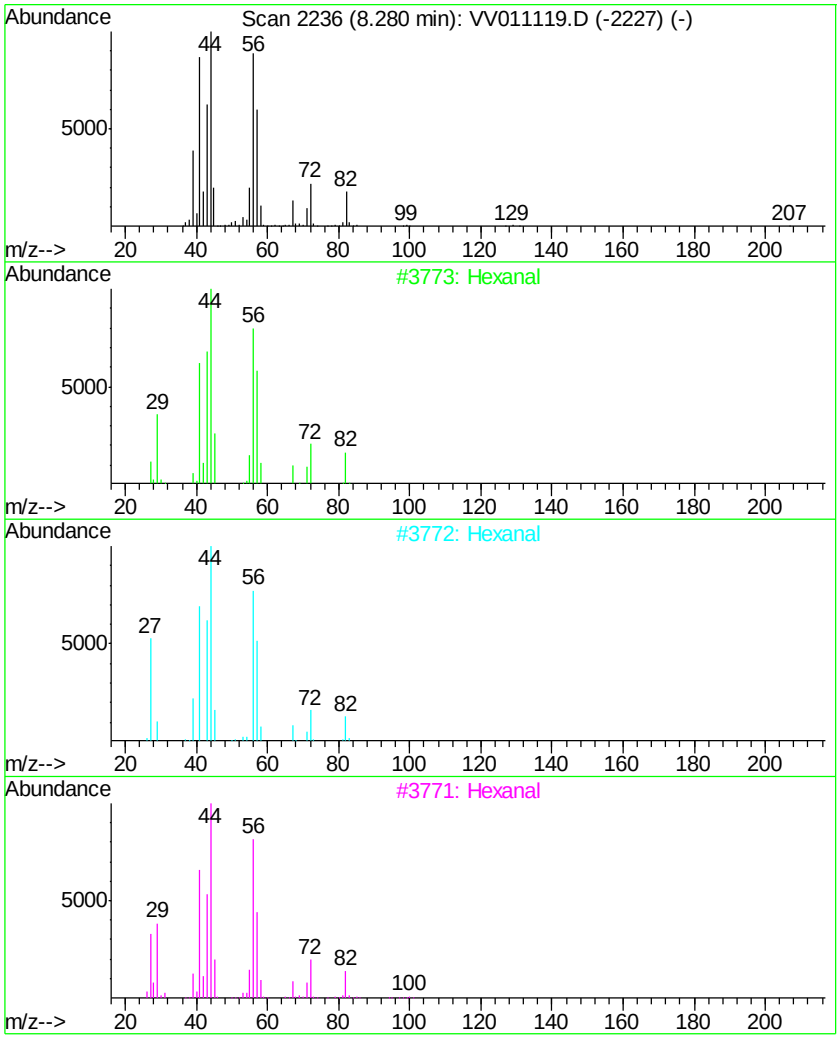
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

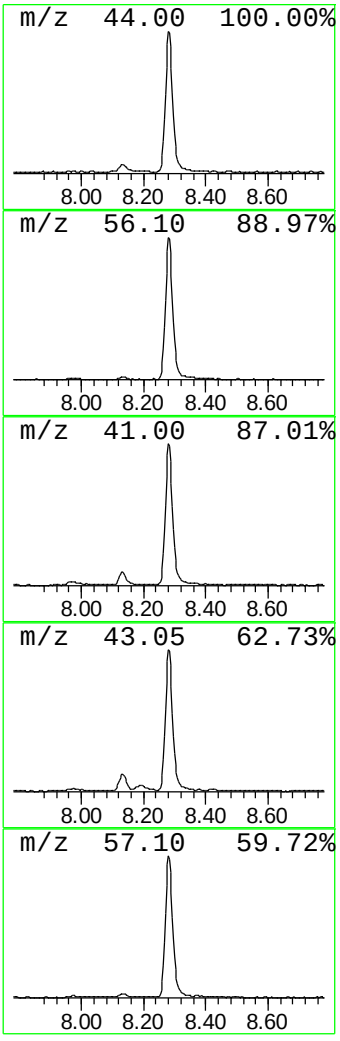
****

Peak Number 6 Hexanal Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.28	21.96 ug/L	547448	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	80
2	Hexanal	100	C6H12O	000066-25-1	80
3	Hexanal	100	C6H12O	000066-25-1	80
4	Hexanal	100	C6H12O	000066-25-1	72
5	Butanal	72	C4H8O	000123-72-8	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
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ClientSampleId : A51E2

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

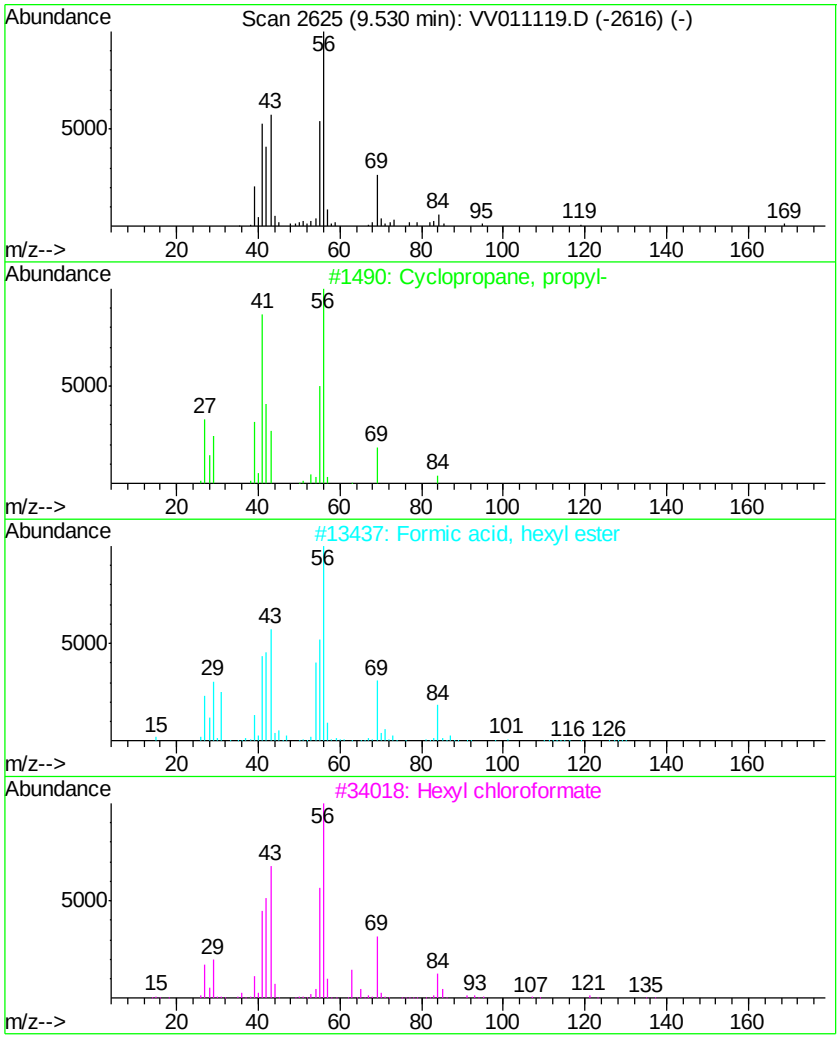
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

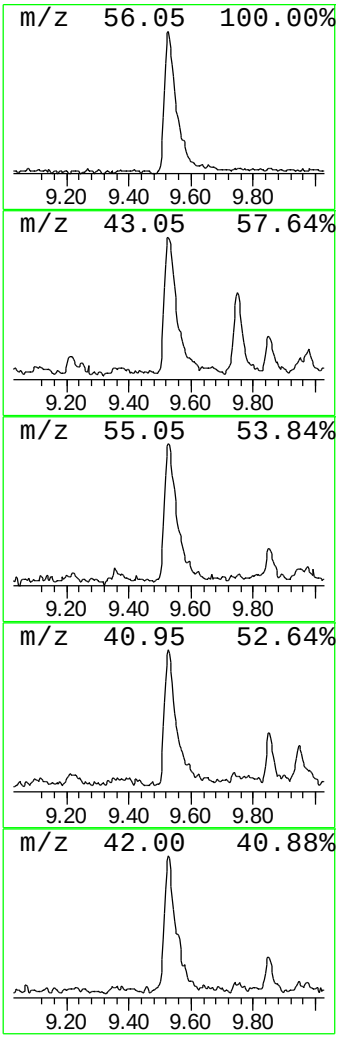
****

Peak Number 7 (DEL) Alkane: Cyclic9.53 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.53	3.05 ug/L	76108	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, propyl-	84	C6H12	002415-72-7	80
2	Formic acid, hexyl ester	130	C7H14O2	000629-33-4	78
3	Hexyl chloroformate	164	C7H13ClO2	006092-54-2	72
4	1-Hexanol	102	C6H14O	000111-27-3	72
5	1-Hexanol	102	C6H14O	000111-27-3	72





Library Search Compound Report

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ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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

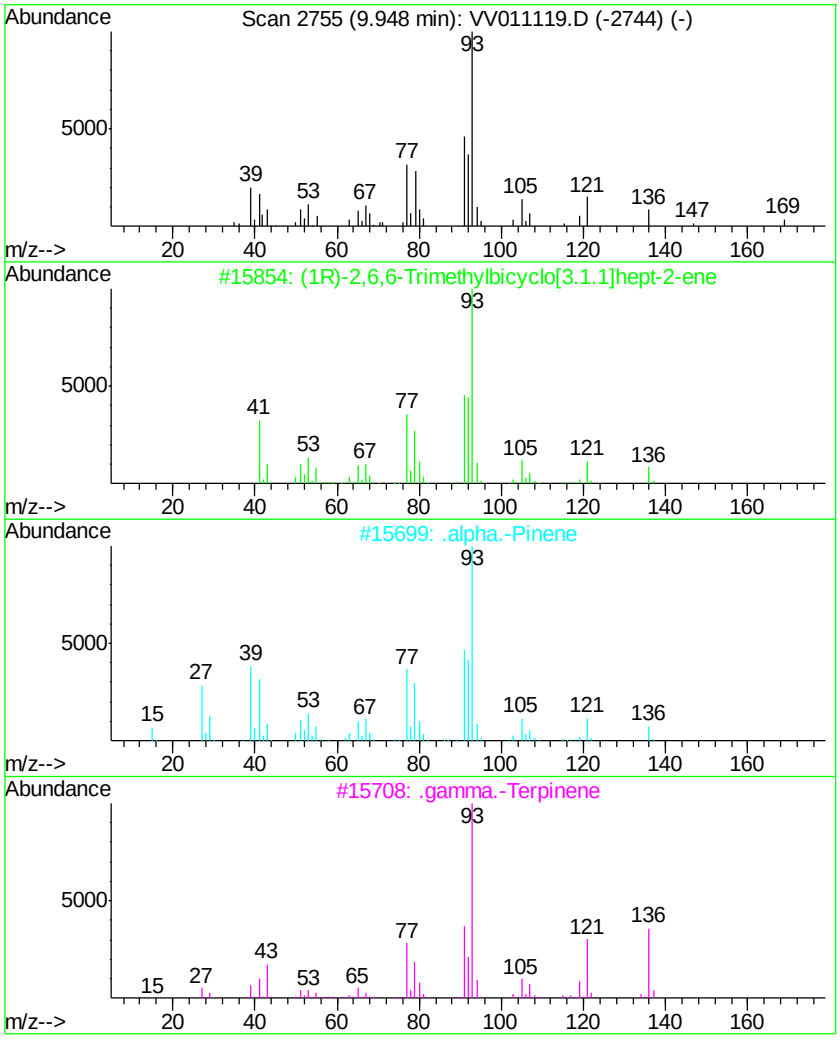
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

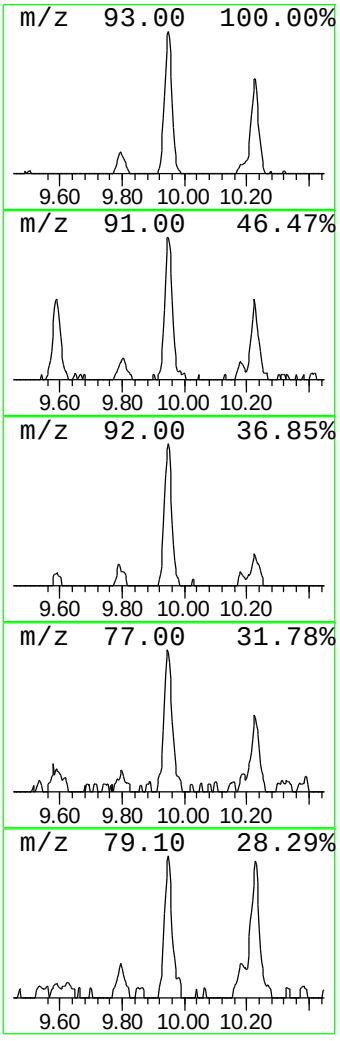
****

Peak Number 8 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.95	2.41 ug/L	60176	Chlorobenzene-d5	8.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	96
2	.alpha.-Pinene	136	C10H16	000080-56-8	93
3	.gamma.-Terpinene	136	C10H16	000099-85-4	91
4	.alpha.-Pinene	136	C10H16	000080-56-8	91
5	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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

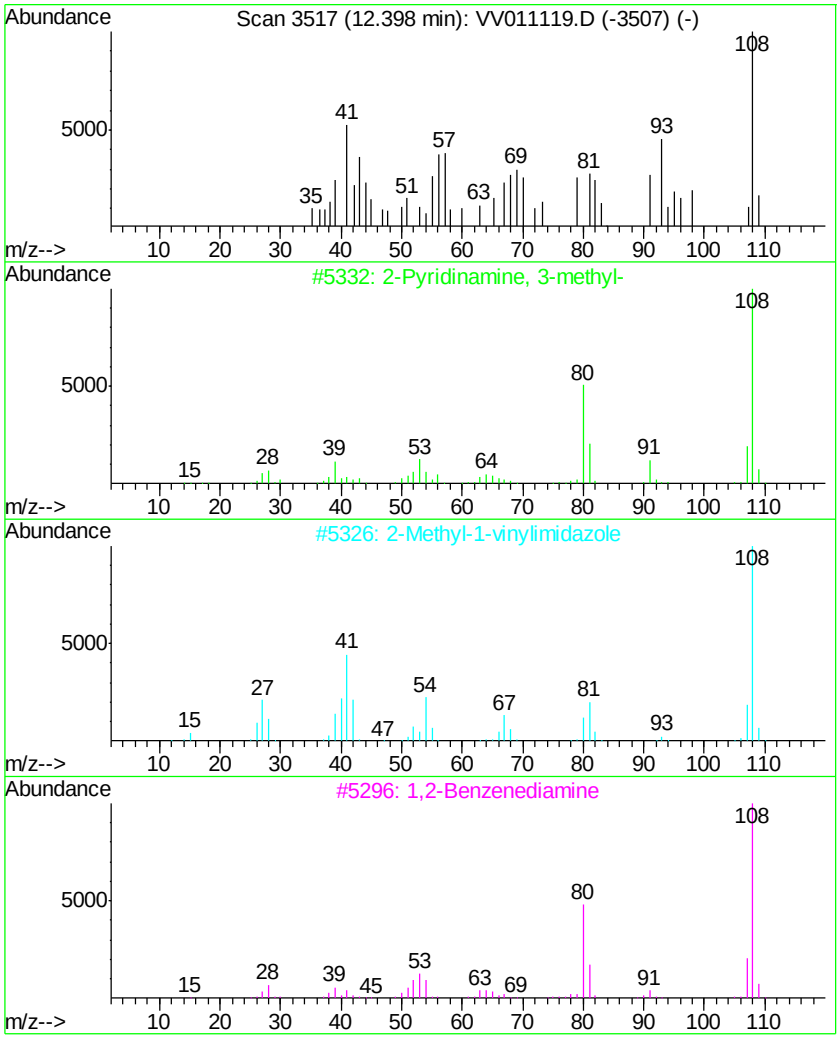
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

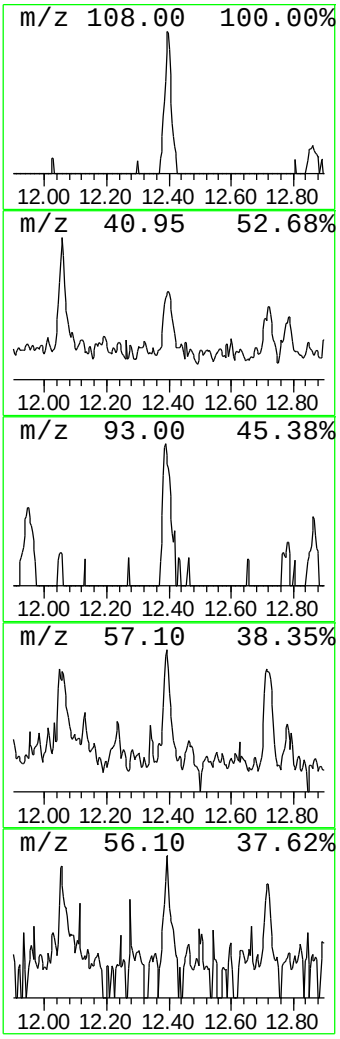
****

Peak Number 11 unknown-01 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	1.77 ug/L	19526	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pyridinamine, 3-methyl-	108	C6H8N2	001603-40-3	35
2	2-Methyl-1-vinylimidazole	108	C6H8N2	002851-95-8	27
3	1,2-Benzenediamine	108	C6H8N2	000095-54-5	27
4	3-Pyridinamine, 2-methyl-	108	C6H8N2	003430-10-2	27
5	Pyrimidine, 4,5-dimethyl-	108	C6H8N2	000694-81-5	25





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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

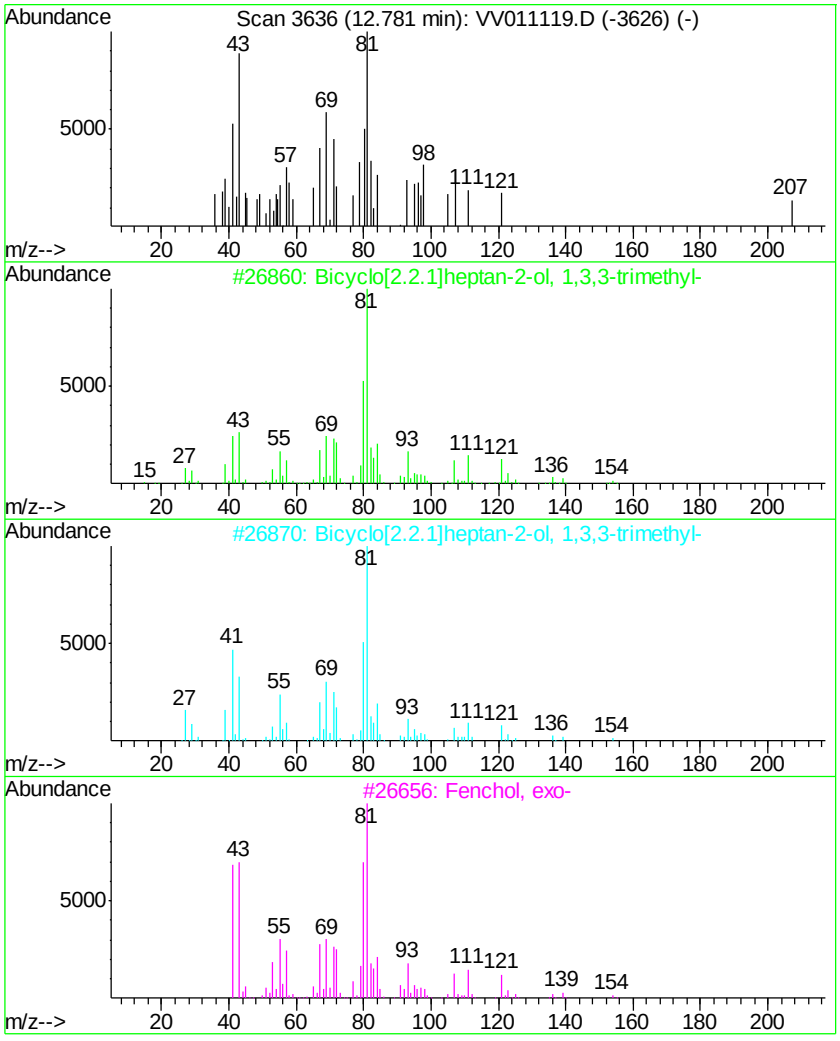
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

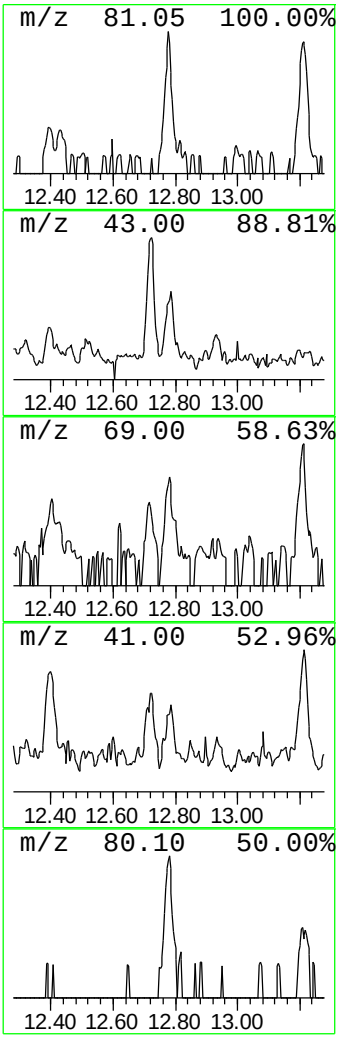
****

Peak Number 12 Bicyclo[2.2.1]heptan-2-ol, ... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.78	1.35 ug/L	14906	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	001632-73-1	59
2	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	001632-73-1	50
3	Fenchol, exo-	154	C10H18O	022627-95-8	42
4	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	001632-73-1	38
5	9-Oxabicyclo[6.1.0]nonan-4-ol	142	C8H14O2	069853-85-6	37





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

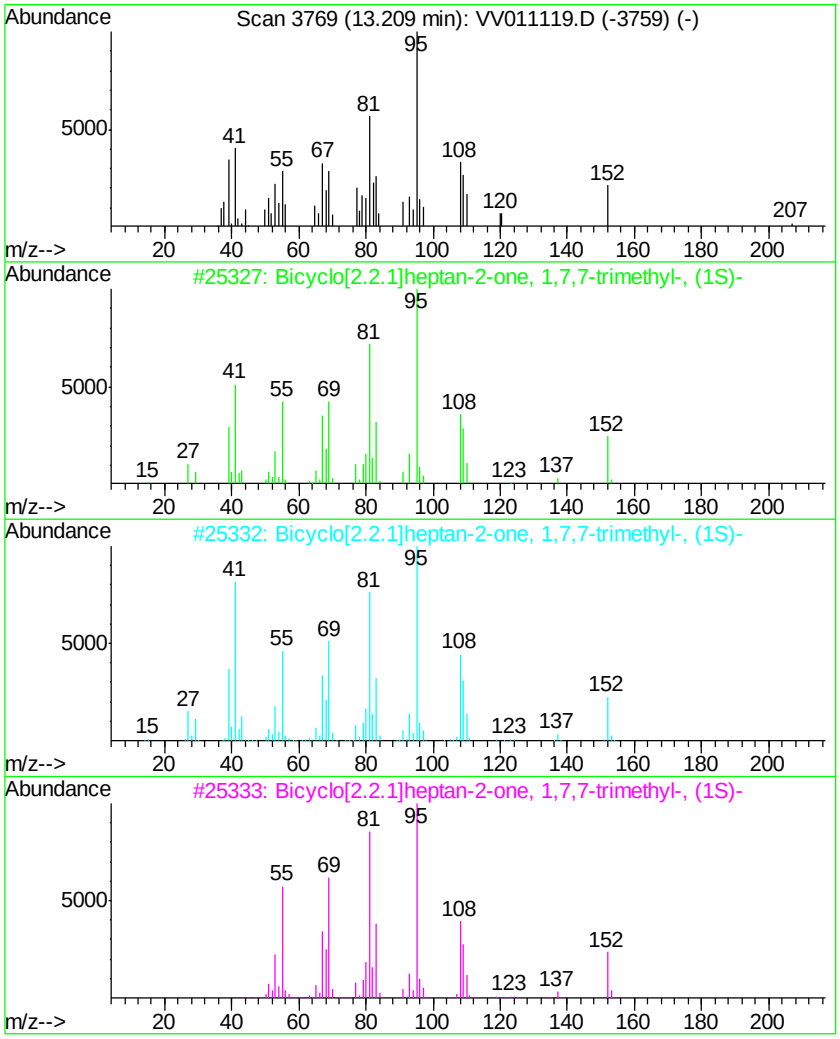
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis

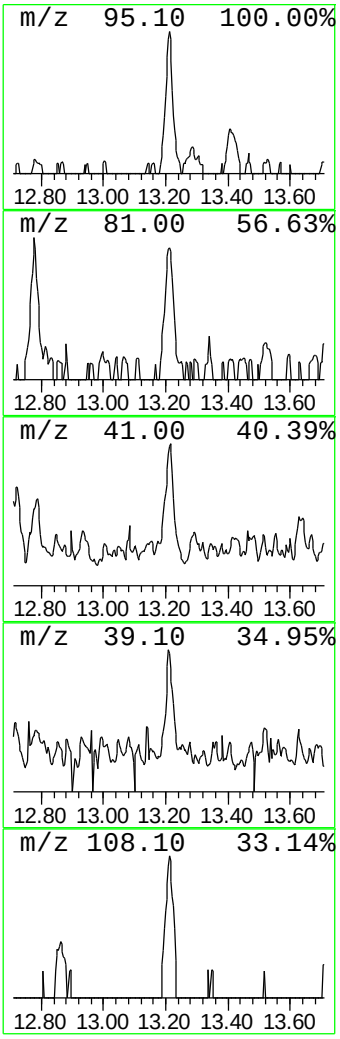
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.21	2.05 ug/L	22665	1,4-Dichlorobenzene-d4	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	96
2	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	94
3	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	93
4	(+)-2-Bornanone	152	C10H16O	000464-49-3	89
5	(+)-2-Bornanone	152	C10H16O	000464-49-3	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052919\
Data File : VV011119.D
Acq On : 29 May 2019 22:49
Operator : SY/MD
Sample : K3017-09
Misc : 2.75G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51E2

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
(DEL) Alkane: Str...	1.81	6.2	ug/L	179082	1	5.66	725064	25.0
Butanal	3.74	9.6	ug/L	279262	1	5.66	725064	25.0
Hexanal	8.28	22.0	ug/L	547448	2	8.89	623130	25.0
(DEL) Alkane: Cyc...	9.53	3.0	ug/L	76108	2	8.89	623130	25.0
(1R)-2,6,6-Trimet...	9.95	2.4	ug/L	60176	2	8.89	623130	25.0
unknown-01	12.40	1.8	ug/L	19526	3	11.30	275872	25.0
Bicyclo[2.2.1]hep...	12.78	1.4	ug/L	14906	3	11.30	275872	25.0
Bicyclo[2.2.1]hep...	13.21	2.0	ug/L	22665	3	11.30	275872	25.0