LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_D\METHOD\82D052019S.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	2.371	88	96	97	rBV	9817587	33620292	16.79%	3.405%
2	2.617	117	121	122	rBV	5571621	10724541	5.36%	1.086%
3	2.656	122	125	128	rVV	2392772	8740559	4.37%	0.885%
4	3.217	171	182	183	rBV2	1657645	7583580	3.79%	0.768%
5	3.926	231	254	257	rBV	21302315	200213881	100.00%	20.276%
6	8.482	713	717	719	rBV3	6072886	17039294	8.51%	1.726%
7	11.542	1026	1028	1032	rVB	4245013	8025148	4.01%	0.813%
8	11.680	1032	1042	1045	rBV2	8493700	33590919	16.78%	3.402%
9	11.769	1049	1051	1052	rBV	2962539	4215915	2.11%	0.427%
10	11.828	1053	1057	1059	rVV	5108353	12759114	6.37%	1.292%
11	12.103	1077	1085	1092	rVB4	7606131	32433948	16.20%	3.285%
12	12.271	1092	1102	1103	rBV4	9716663	40352674	20.15%	4.087%
13	12.448	1112	1120	1126	rVB2	14137292	63409735	31.67%	6.422%
14	12.576	1126	1133	1137	rBV4	16639650	68517680	34.22%	6.939%
15	12.753	1146	1151	1155	rBV	11967437	40624774	20.29%	4.114%
16	12.812	1155	1157	1162	rVB4	16790629	39411985	19.68%	3.991%
17	12.920	1162	1168	1171	rBV3	5505782	12207292	6.10%	1.236%
18	12.979	1171	1174	1177	rBV3	3351856	6676504	3.33%	0.676%
19	13.058	1177	1182	1185	rBV5	5741071	17997938	8.99%	1.823%
20	13.127	1187	1189	1193	rVB3	5263514	11240110	5.61%	1.138%
21	13.196	1193	1196	1198	rBV2	2790479	5235268	2.61%	0.530%
22	13.264	1198	1203	1206	rBV2	5997913	12952637	6.47%	1.312%
23	13.343	1207	1211	1216	rVB6	6901145	20189822	10.08%	2.045%
24	13.442	1216	1221	1224	rBV	15328941	33848995	16.91%	3.428%
25	13.511	1224	1228	1231	rBV4	3438470	9865620	4.93%	0.999%
26	13.579	1232	1235	1236	rBV2	3063673	5305777	2.65%	0.537%
27	13.599	1236	1237	1240	rVB	5294623	6802682	3.40%	0.689%
28	13.688	1243	1246	1249	rVB	6822564	9457395	4.72%	0.958%
29	13.737	1249	1251	1253	rBV	2642610	3507065	1.75%	0.355%
30	13.796	1253	1257	1260	rVB	13468016	26031682	13.00%	2.636%
31	13.904	1264	1268	1270	rBV	10366221	17918905	8.95%	1.815%
32	13.953	1270	1273	1280	rVB2	14783268	35543693	17.75%	3.600%
33	14.101	1284	1288	1290	rBV	10914307	18085246	9.03%	1.832%
34	14.268	1300	1305	1308	rVB	20561536	51307760	25.63%	5.196%

LSC Area Percent Report

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Data File : VD062513.D
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Operator : VA/AP
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Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_D\METHOD\82D052019S.M
Title : SW846 8260

35	14.376	1312	1316	1318	rVB2	1511098	3171293	1.58%	0.321%
36	14.445	1318	1323	1325	rBV2	1516303	2707720	1.35%	0.274%
37	14.563	1332	1335	1340	rVB	11681169	17065240	8.52%	1.728%
38	14.711	1346	1350	1354	rBV	8862070	13414844	6.70%	1.359%
39	14.780	1354	1357	1362	rVB2	6125168	10489068	5.24%	1.062%
40	14.908	1366	1370	1374	rVB	1959932	2703353	1.35%	0.274%
41	14.977	1374	1377	1378	rBV	2266194	3261080	1.63%	0.330%
42	14.996	1378	1379	1382	rVB	2154040	2219909	1.11%	0.225%
43	15.056	1382	1385	1387	rBV	3147709	4285066	2.14%	0.434%
44	15.134	1390	1393	1398	rVB	1920876	2692031	1.34%	0.273%

Sum of corrected areas: 987448034

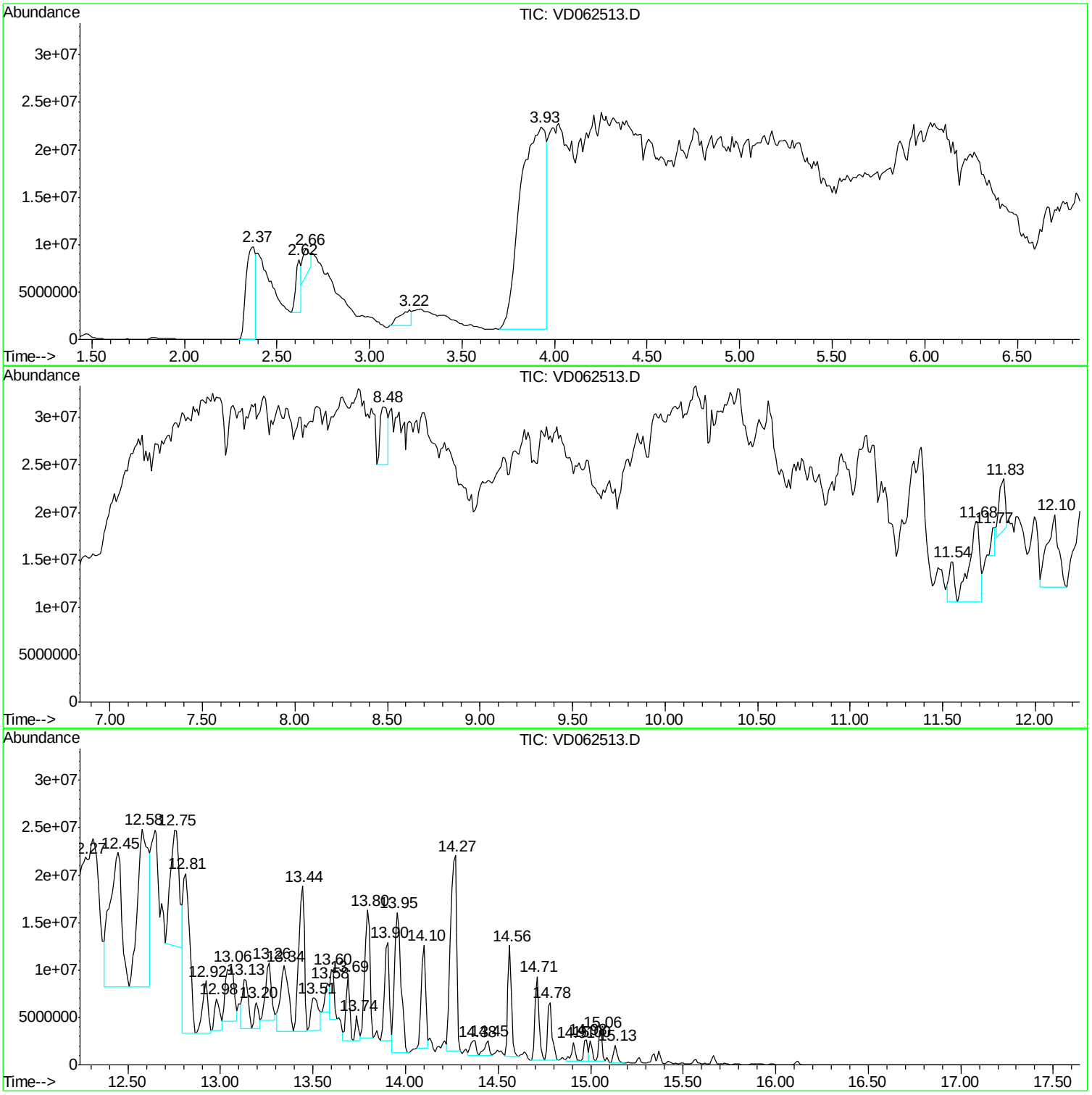
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

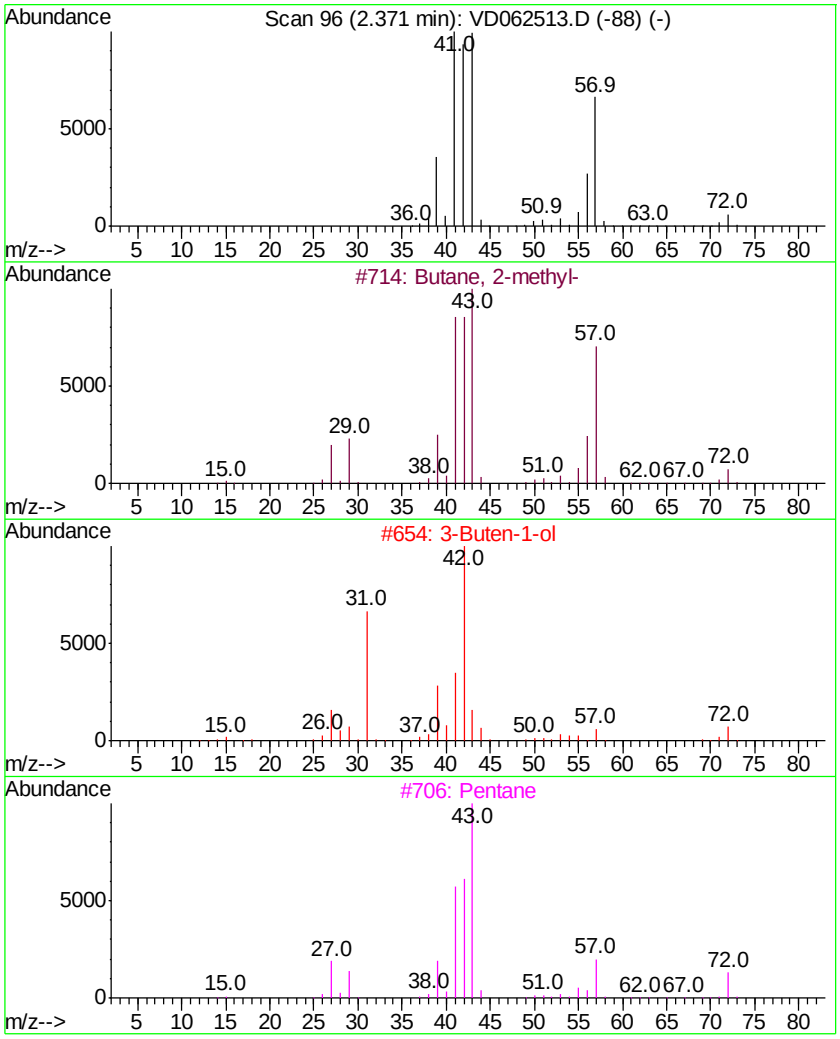
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

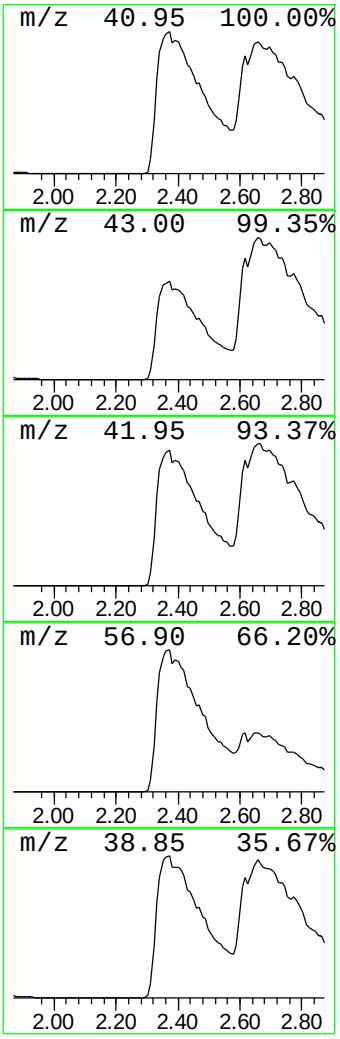
****

Peak Number 1 Butane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.37	98.66 ug/l	33620300	Pentafluorobenzene	7.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	91
2	3-Buten-1-ol	72	C4H8O	000627-27-0	47
3	Pentane	72	C5H12	000109-66-0	42
4	2(3H)-Furanone, dihydro-4-methyl-	100	C5H8O2	001679-49-8	33
5	1-Butene	56	C4H8	000106-98-9	14





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

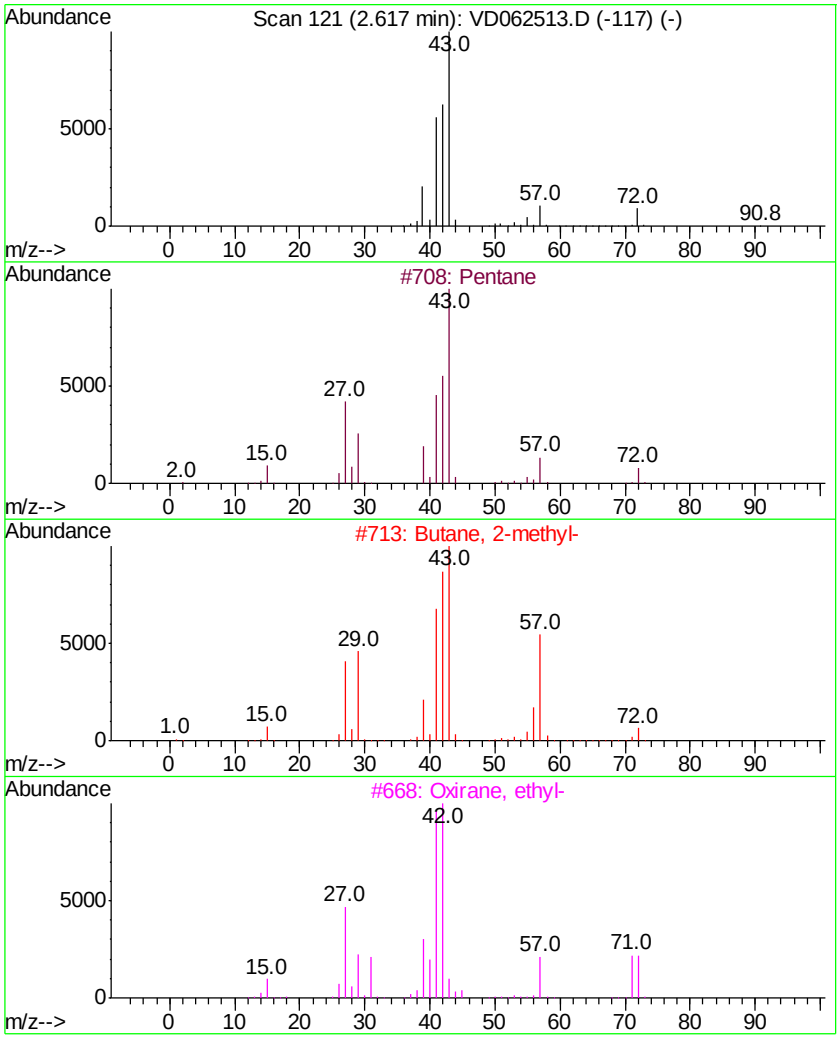
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

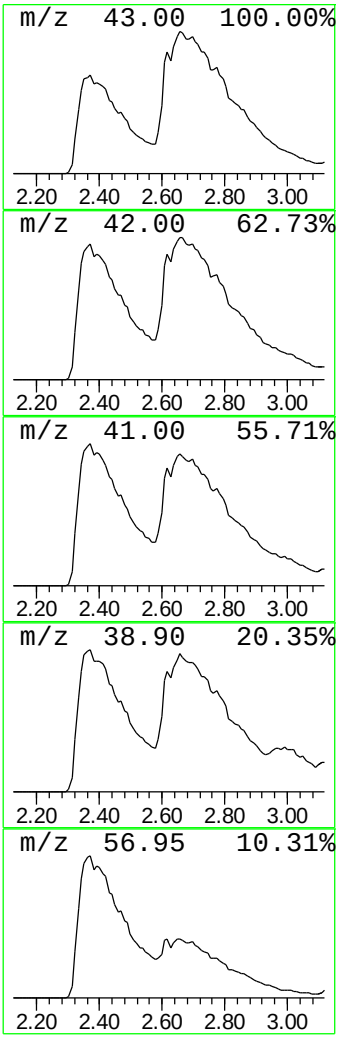
****

Peak Number 2 Pentane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.62	31.47 ug/l	10724500	Pentafluorobenzene	7.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	80
2	Butane, 2-methyl-	72	C5H12	000078-78-4	64
3	Oxirane, ethyl-	72	C4H8O	000106-88-7	50
4	Cyclobutane, methyl-	70	C5H10	000598-61-8	35
5	Isobutane	58	C4H10	000075-28-5	25





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

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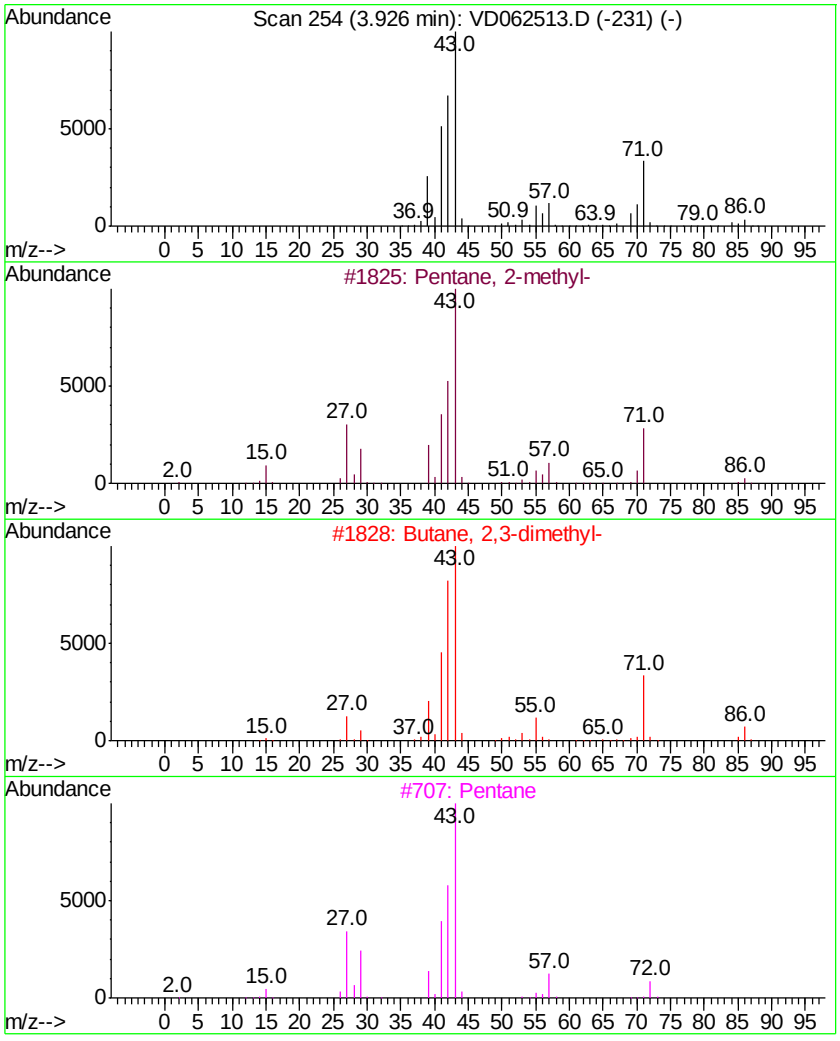
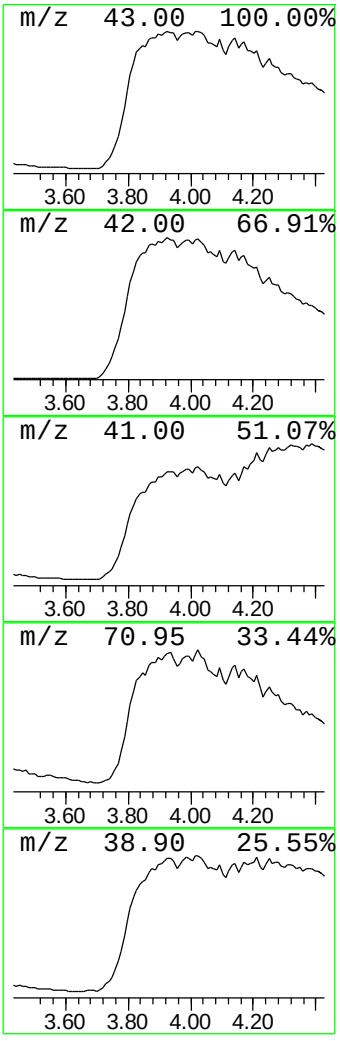
Peak Number 3 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.93	587.51 ug/l	200214000	Pentafluorobenzene	7.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	59
3	Pentane	72	C5H12	000109-66-0	47
4	Ether, hexyl pentyl	172	C11H24O	032357-83-8	40
5	1-Butanol, 2,3-dimethyl-	102	C6H14O	019550-30-2	38





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
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Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

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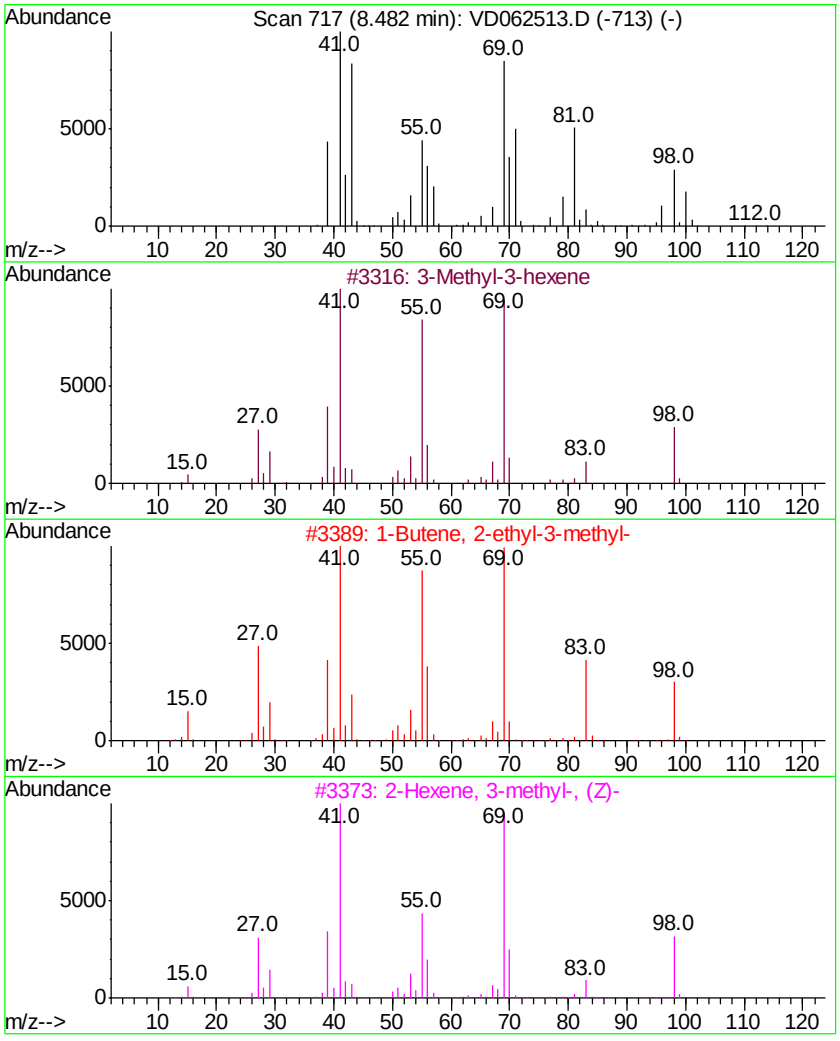
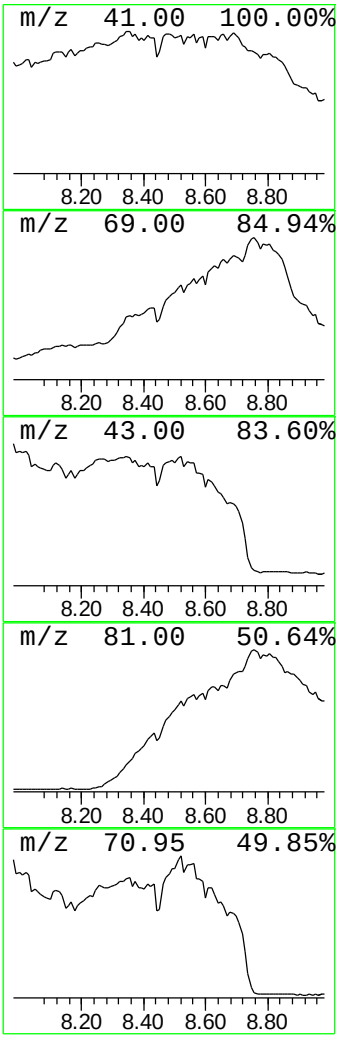
Peak Number 4 3-Methyl-3-hexene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	50.00 ug/l	17039300	1,4-Difluorobenzene	8.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methyl-3-hexene	98	C7H14	003404-65-7	53
2	1-Butene, 2-ethyl-3-methyl-	98	C7H14	007357-93-9	53
3	2-Hexene, 3-methyl-, (Z)-	98	C7H14	010574-36-4	43
4	3-Hexene, 3-methyl-, (Z)-	98	C7H14	004914-89-0	38
5	2-Hexene, 2-methyl-	98	C7H14	002738-19-4	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
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Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
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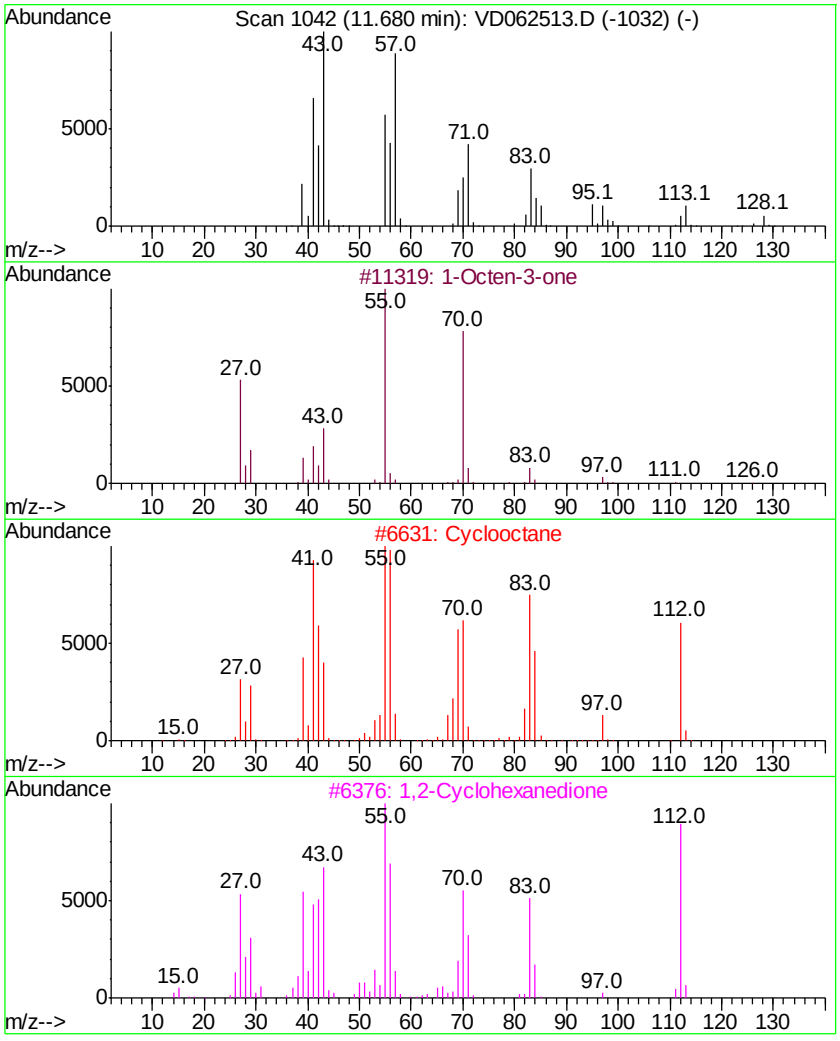
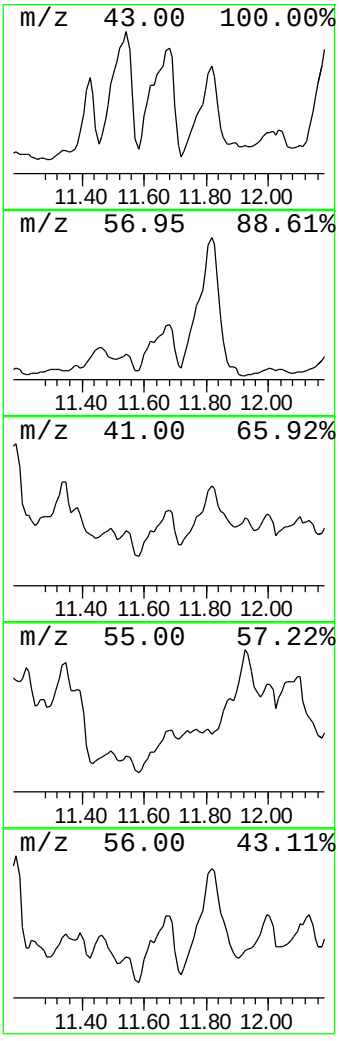
****

Peak Number 5 unknown11.68 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.68	26.49 ug/l	33590900	Chlorobenzene-d5	12.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Octen-3-one	126	C8H14O	004312-99-6	47
2	Cyclooctane	112	C8H16	000292-64-8	38
3	1,2-Cyclohexanedione	112	C6H8O2	000765-87-7	38
4	2-Nonene, (E)-	126	C9H18	006434-78-2	35
5	Isobutyl octyl carbonate	230	C13H26O3	1000372-74-6	35





Library Search Compound Report

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ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

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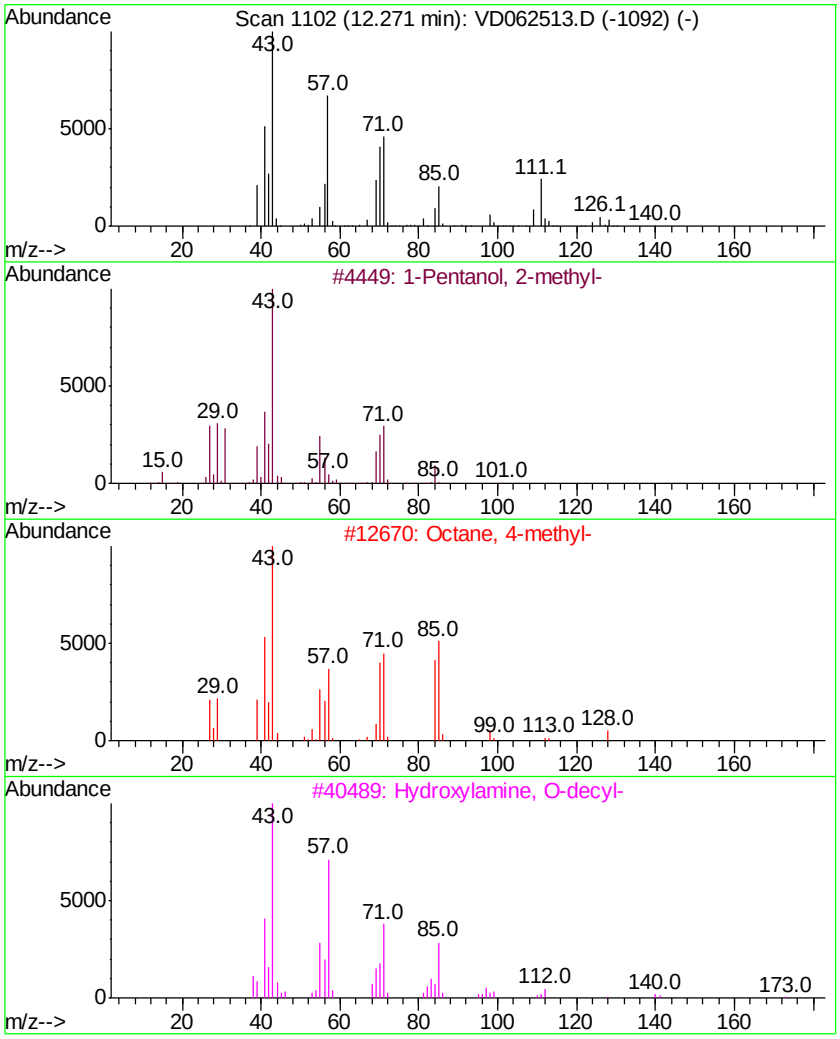
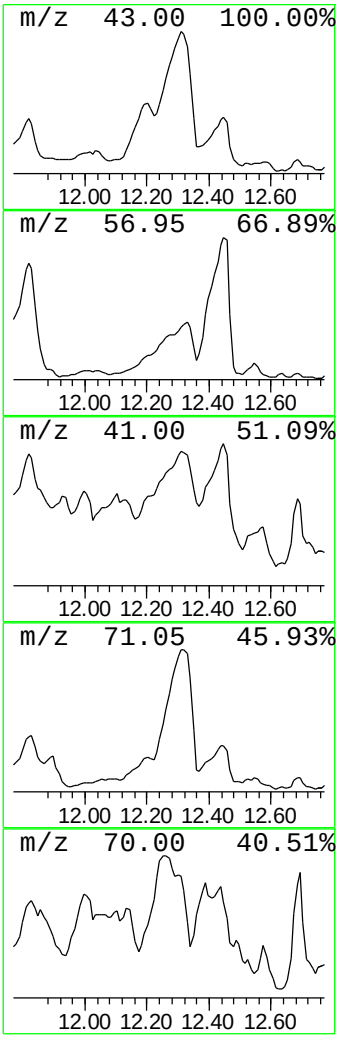
Peak Number 6 1-Pentanol, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	31.82 ug/l	40352700	Chlorobenzene-d5	12.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	50
2	Octane, 4-methyl-	128	C9H20	002216-34-4	50
3	Hydroxylamine, O-decyl-	173	C10H23NO	029812-79-1	47
4	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	43
5	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	43





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ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

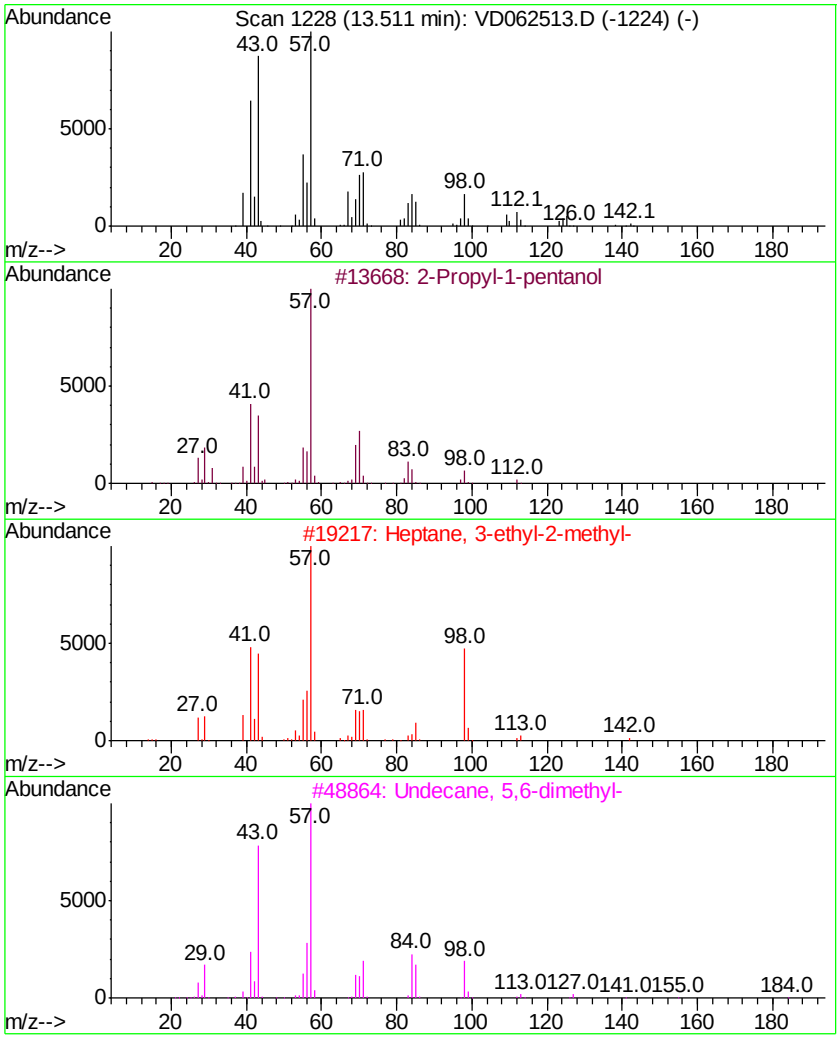
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

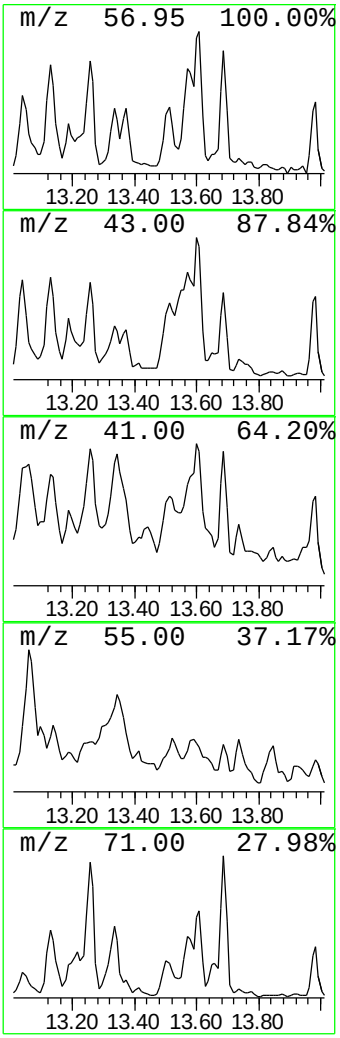
****

Peak Number 7 2-Propyl-1-pentanol Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	28.91 ug/l	9865620	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propyl-1-pentanol	130	C8H18O	058175-57-8	53
2	Heptane, 3-ethyl-2-methyl-	142	C10H22	014676-29-0	50
3	Undecane, 5,6-dimethyl-	184	C13H28	017615-91-7	50
4	Hexane, 3-ethyl-	114	C8H18	000619-99-8	49
5	Nonane, 4-methyl-	142	C10H22	017301-94-9	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

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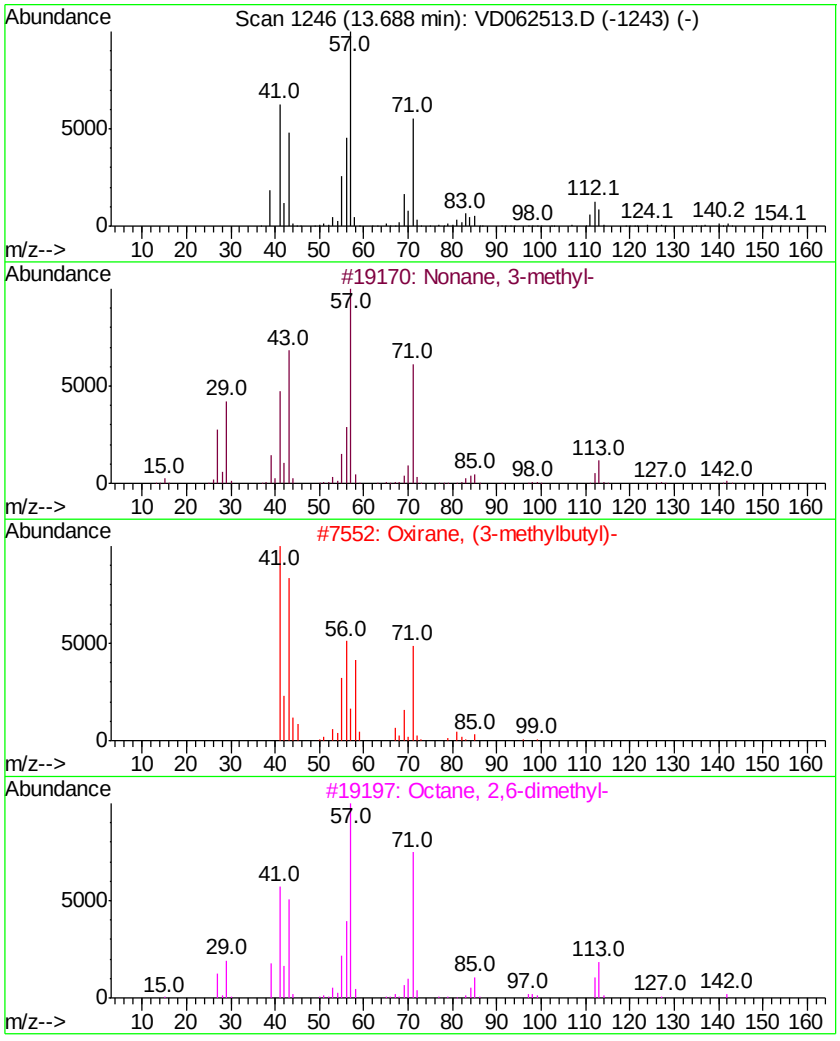
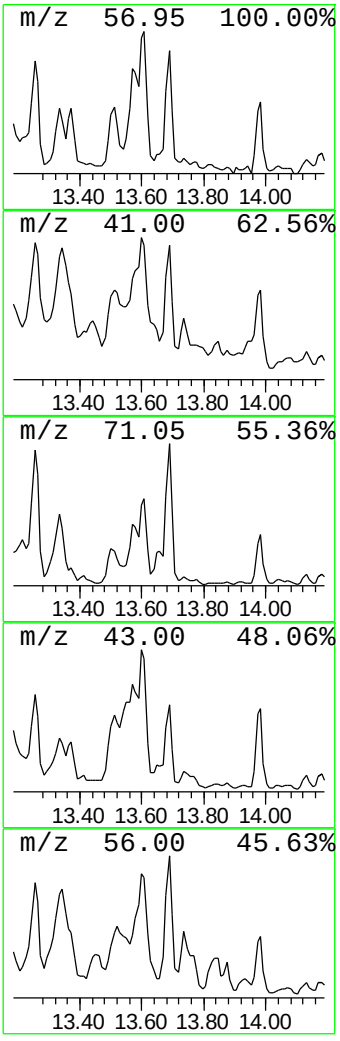
Peak Number 8 Nonane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.69	27.71 ug/l	9457400	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-	142	C10H22	005911-04-6	76
2	Oxirane, (3-methylbutyl)-	114	C7H14O	053229-41-7	59
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	53
4	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	53
5	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

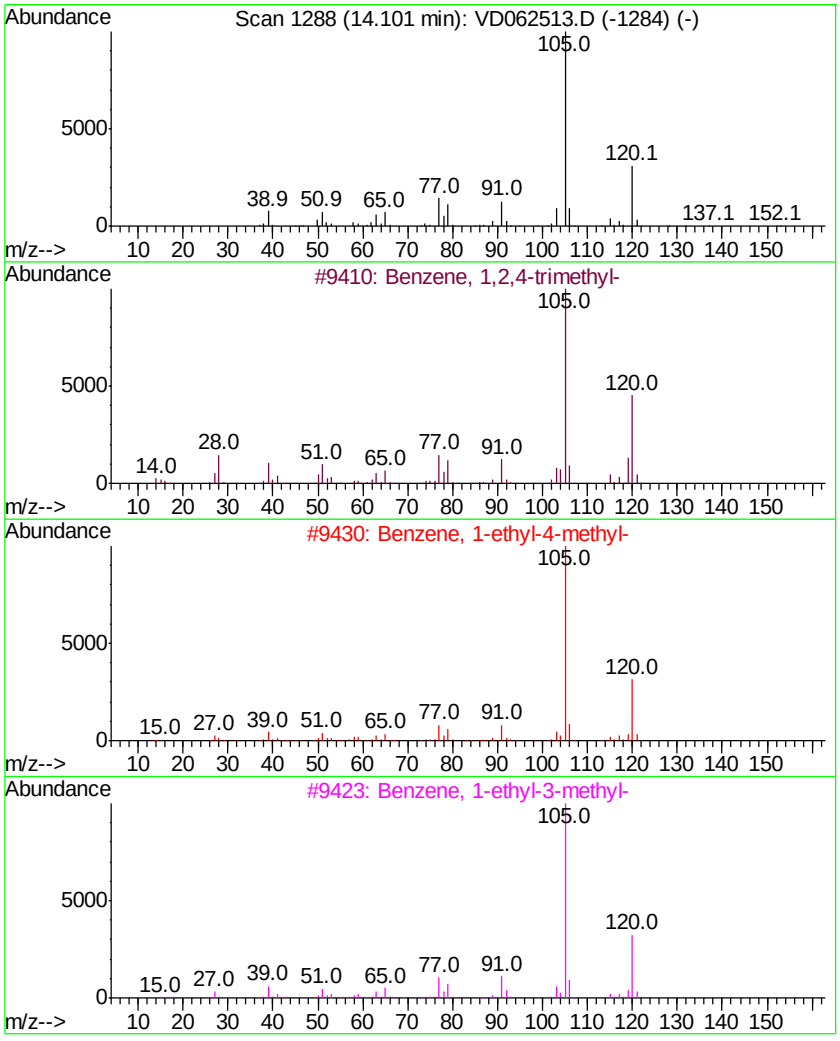
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

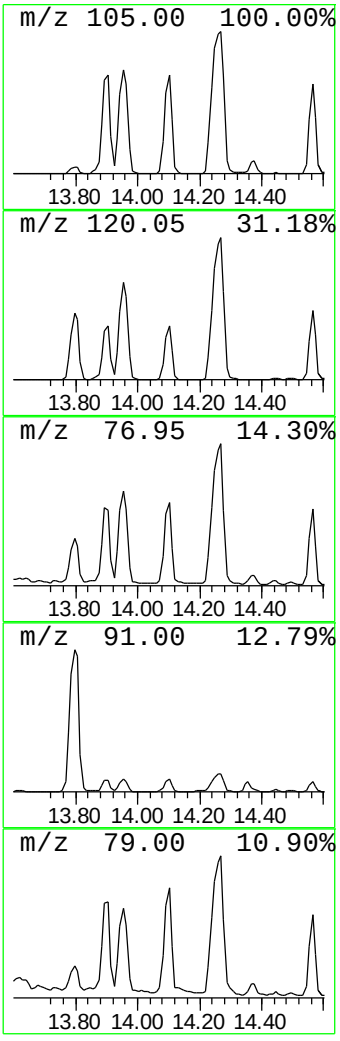
****

Peak Number 9 Benzene, 1,2,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	52.99 ug/l	18085200	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
5	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

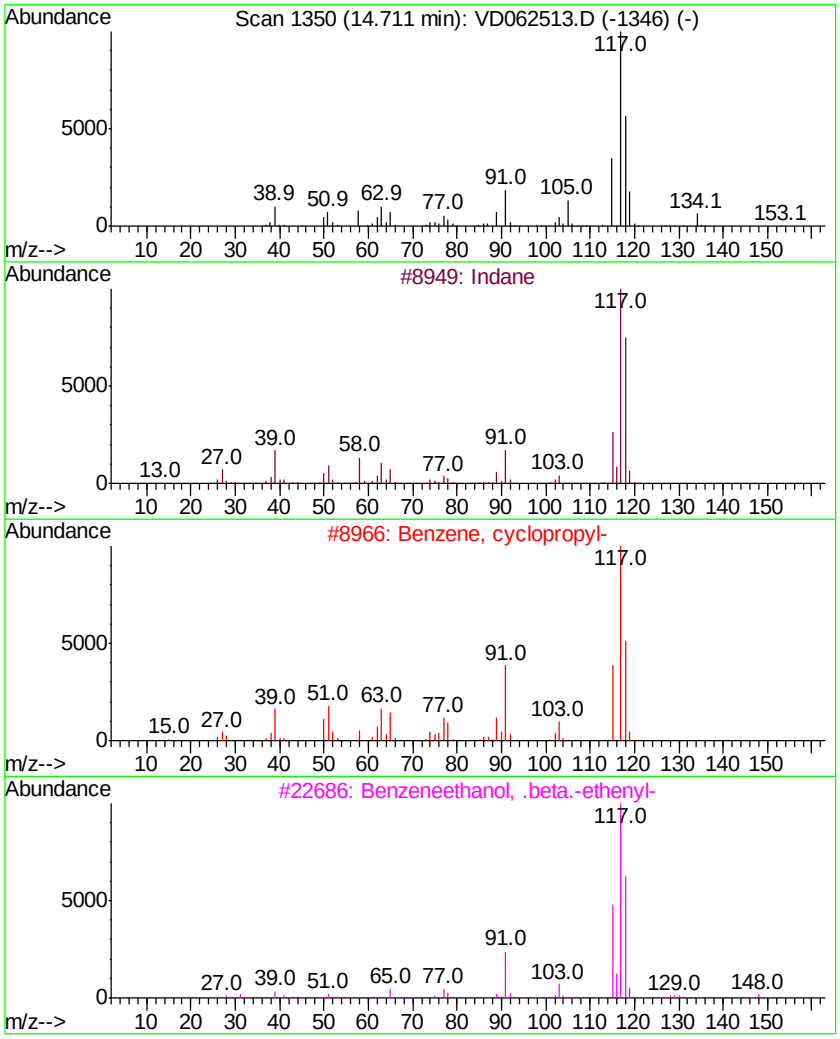
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

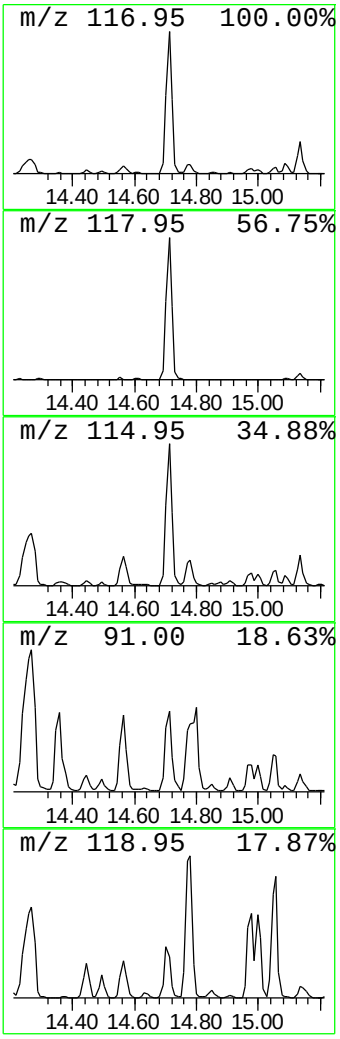
****

Peak Number 10 Indane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	39.30 ug/l	13414800	1,4-Dichlorobenzene-d4	14.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	81
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
3	Benzeneethanol, .beta.-ethenyl-	148	C10H12O	006052-63-7	64
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	64
5	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD052219\
Data File : VD062513.D
Acq On : 22 May 2019 19:56
Operator : VA/AP
Sample : K2996-12
Misc : 5.76g/5ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument : MSVOA_D
ClientSampleId : P-10(4.5-5.0)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methyl-	2.37	98.7	ug/l	33620300	1	7.10	17039300	50.0
Pentane	2.62	31.5	ug/l	10724500	1	7.10	17039300	50.0
Pentane, 2-methyl-	3.93	587.5	ug/l	200214000	1	7.10	17039300	50.0
3-Methyl-3-hexene	8.48	50.0	ug/l	17039300	2	8.32	17039300	50.0
unknown11.68	11.68	26.5	ug/l	33590900	3	12.48	63409700	50.0
1-Pentanol, 2-met...	12.27	31.8	ug/l	40352700	3	12.48	63409700	50.0
2-Propyl-1-pentanol	13.51	28.9	ug/l	9865620	4	14.52	17065200	50.0
Nonane, 3-methyl-	13.69	27.7	ug/l	9457400	4	14.52	17065200	50.0
Benzene, 1,2,4-tr...	14.10	53.0	ug/l	18085200	4	14.52	17065200	50.0
Indane	14.71	39.3	ug/l	13414800	4	14.52	17065200	50.0