LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

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_U\METHOD\82U092218W.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	1.305	34	41	60	rVB	104533	110390	11.38%	1.282%
2	1.402	63	71	82	rBV	245135	244057	25.16%	2.834%
3	1.759	172	182	200	rVB	273434	357842	36.88%	4.155%
4	1.948	232	241	263	rVB3	66098	109574	11.29%	1.272%
5	2.051	265	273	281	rVV	14179	18288	1.88%	0.212%
6	2.186	305	315	331	rVB	233829	346300	35.69%	4.021%
7	2.318	343	356	370	rVB2	9719	22302	2.30%	0.259%
8	2.685	446	470	485	rBV2	36222	97073	10.01%	1.127%
9	2.794	492	504	527	rVB	320643	633396	65.28%	7.354%
10	2.996	555	567	585	rVB3	15817	36102	3.72%	0.419%
11	3.559	722	742	757	rBV4	22510	51431	5.30%	0.597%
12	3.662	758	774	785	rVV4	17957	43832	4.52%	0.509%
13	3.733	785	796	809	rVV3	18429	45190	4.66%	0.525%
14	3.810	809	820	833	rVV2	10101	24281	2.50%	0.282%
15	3.897	833	847	866	rVB5	13941	35563	3.67%	0.413%
16	4.096	890	909	926	rBV	118005	319053	32.88%	3.705%
17	4.186	927	937	953	rVB3	13666	33845	3.49%	0.393%
18	4.784	1108	1123	1137	rVB3	16584	37896	3.91%	0.440%
19	4.884	1139	1154	1172	rBV	96879	220271	22.70%	2.558%
20	4.993	1172	1188	1209	rBV3	230084	576583	59.43%	6.695%
21	5.311	1273	1287	1300	rBV	123227	255896	26.38%	2.971%
22	5.392	1300	1312	1324	rVV	138032	293213	30.22%	3.404%
23	5.456	1324	1332	1342	rVV2	33963	79851	8.23%	0.927%
24	5.520	1342	1352	1374	rVV	63956	152321	15.70%	1.769%
25	5.617	1375	1382	1398	rVB9	4162	10554	1.09%	0.123%
26	5.887	1451	1466	1483	rBV	205151	409204	42.18%	4.751%
27	6.418	1616	1631	1644	rVB4	9341	21305	2.20%	0.247%
28	6.829	1747	1759	1760	rBV3	7468	11324	1.17%	0.131%
29	7.070	1824	1834	1847	rBV2	19656	35064	3.61%	0.407%
30	7.299	1894	1905	1918	rBV2	9611	20530	2.12%	0.238%
31	7.366	1918	1926	1937	rVV3	12783	23929	2.47%	0.278%
32	7.430	1937	1946	1960	rVB2	11906	21283	2.19%	0.247%
33	7.569	1973	1989	2001	rBV	391092	686997	70.81%	7.977%
34	7.639	2002	2011	2026	rVV	70110	131978	13.60%	1.532%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

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_U\METHOD\82U092218W.M
Title : SW846 8260

35	7.720	2026	2036	2060	rVB	15596	33511	3.45%	0.389%
36	7.864	2070	2081	2092	rBV3	9505	17445	1.80%	0.203%
37	7.958	2099	2110	2126	rBV2	10532	21586	2.22%	0.251%
38	8.183	2167	2180	2193	rBV2	10303	25134	2.59%	0.292%
39	8.501	2269	2279	2300	rVB3	7861	15684	1.62%	0.182%
40	9.093	2450	2463	2484	rBV	287420	491263	50.63%	5.704%
41	9.253	2502	2513	2521	rBV2	6683	11697	1.21%	0.136%
42	9.376	2538	2551	2573	rBV	62551	107519	11.08%	1.248%
43	9.781	2668	2677	2687	rBV3	6930	10630	1.10%	0.123%
44	10.167	2786	2797	2809	rBV	50431	80752	8.32%	0.938%
45	10.308	2829	2841	2861	rBV	265409	421531	43.45%	4.894%
46	10.588	2919	2928	2943	rBV	74581	122823	12.66%	1.426%
47	10.974	3038	3048	3058	rBV2	20988	33098	3.41%	0.384%
48	11.485	3195	3207	3226	rVB	315201	489061	50.41%	5.678%
49	11.572	3226	3234	3244	rVB3	9749	14263	1.47%	0.166%
50	11.768	3279	3295	3318	rBV	611288	970211	100.00%	11.265%
51	12.253	3436	3446	3452	rBV	11296	17064	1.76%	0.198%
52	12.356	3469	3478	3493	rVB	34649	56136	5.79%	0.652%
53	12.967	3659	3668	3682	rVB2	12049	17617	1.82%	0.205%
54	13.125	3706	3717	3731	rBV2	31885	48121	4.96%	0.559%
55	13.295	3760	3770	3780	rBV4	7016	10749	1.11%	0.125%
56	13.745	3899	3910	3924	rBV2	48366	79929	8.24%	0.928%

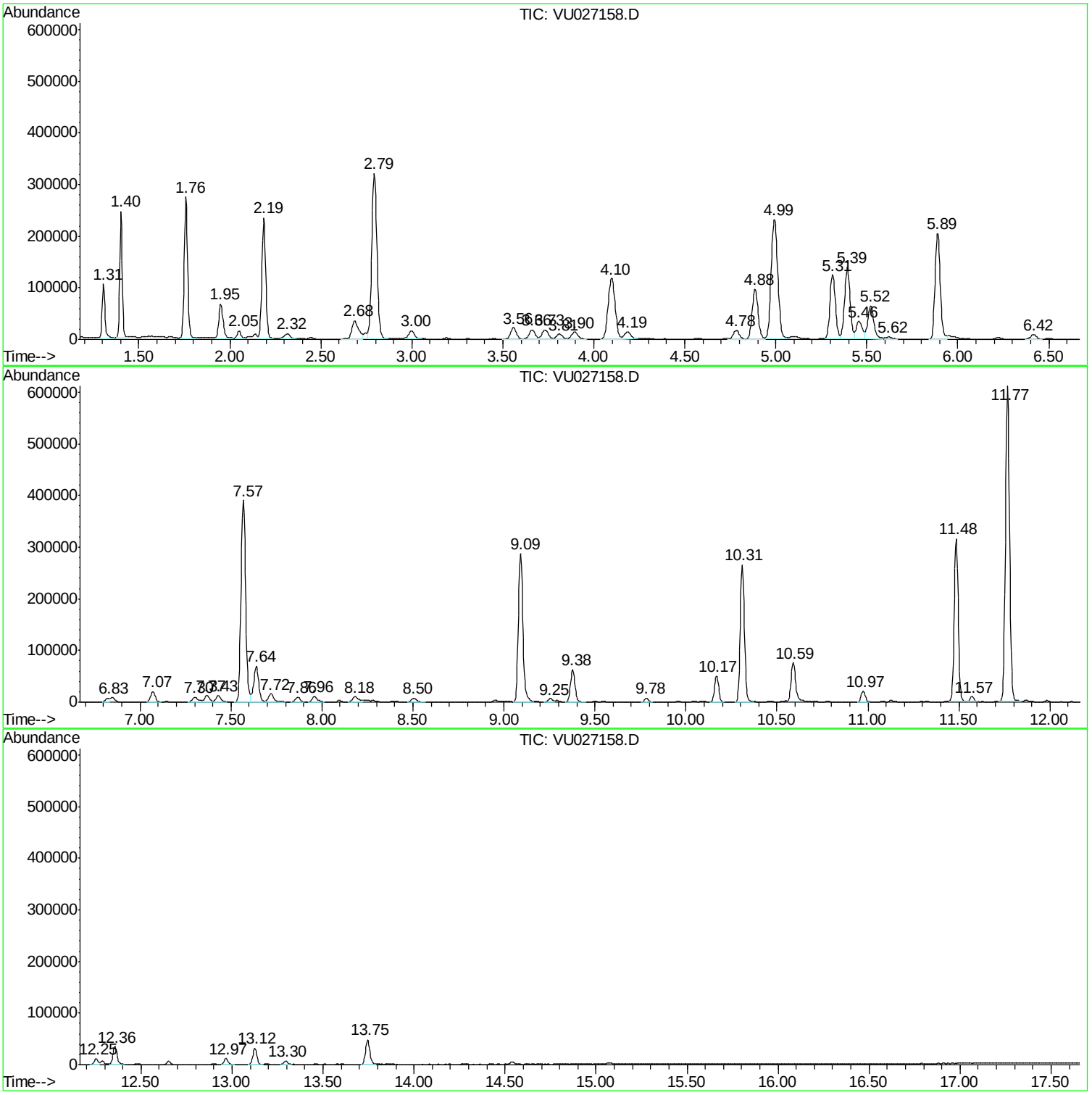
Sum of corrected areas: 8612542

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.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_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

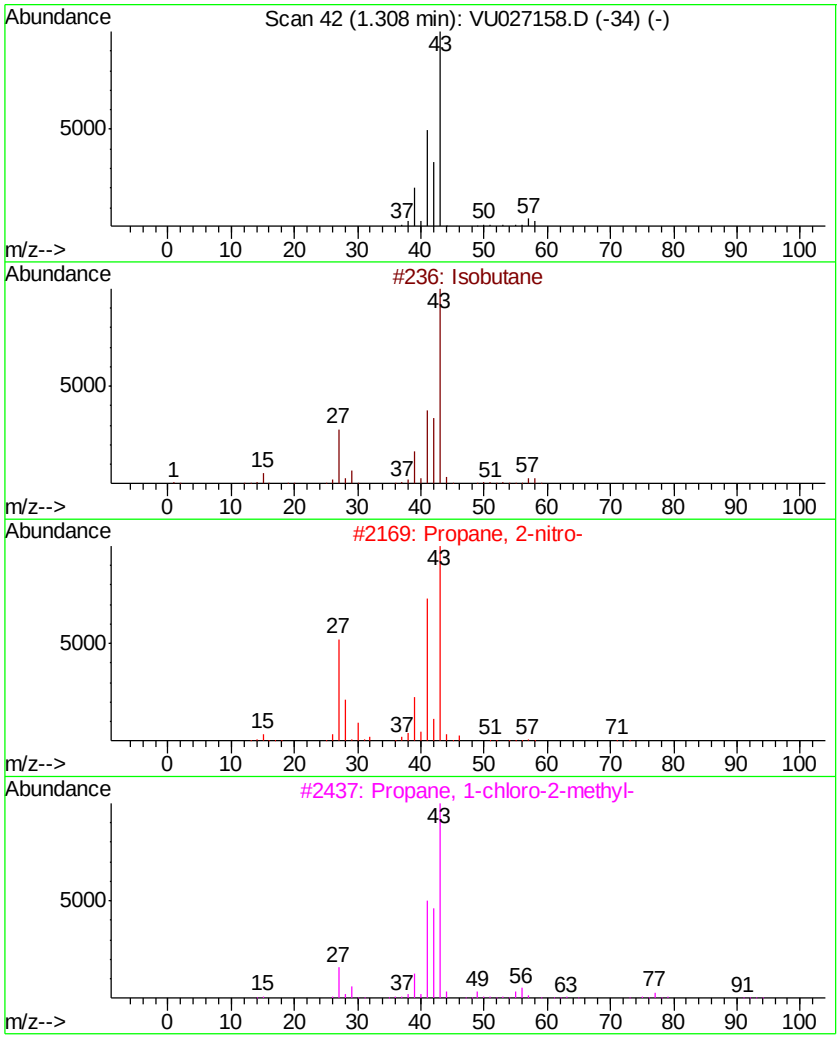
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

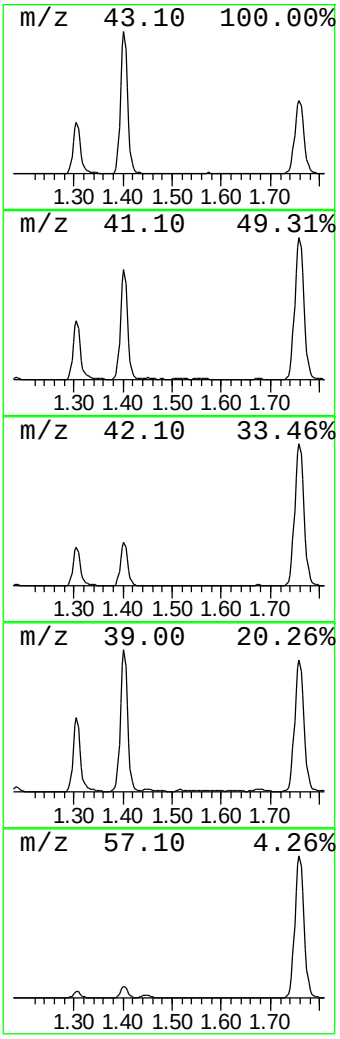
****

Peak Number 1 Isobutane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.31	9.57 ug/l	110390	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	72
2	Propane, 2-nitro-	89	C3H7NO2	000079-46-9	9
3	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	4
4	Isopropylsulfonyl chloride	142	C3H7ClO2S	010147-37-2	4
5	5-Methyloxazolidine	87	C4H9NO	058328-22-6	4





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

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

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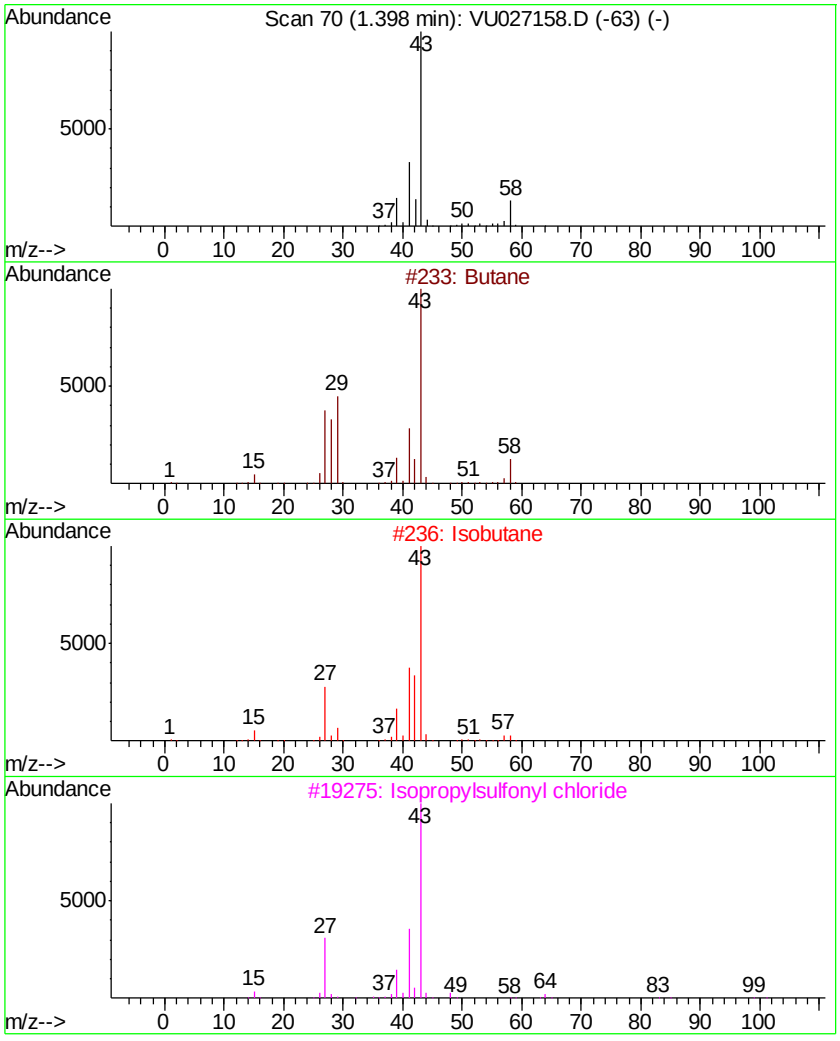
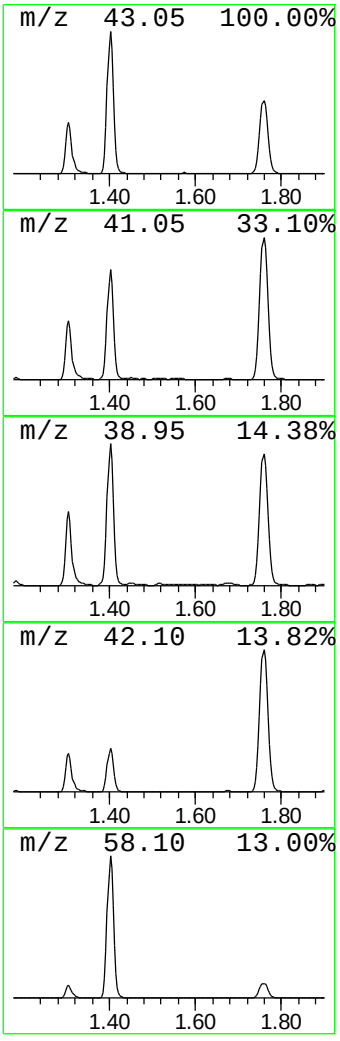
Peak Number 2 Butane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.40	21.16 ug/l	244057	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane	58	C4H10	000106-97-8	80
2	Isobutane	58	C4H10	000075-28-5	9
3	Isopropylsulfonyl chloride	142	C3H7ClO2S	010147-37-2	9
4	Propane, 1-nitro-	89	C3H7NO2	000108-03-2	9
5	Diazene, dimethyl-	58	C2H6N2	000503-28-6	5





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

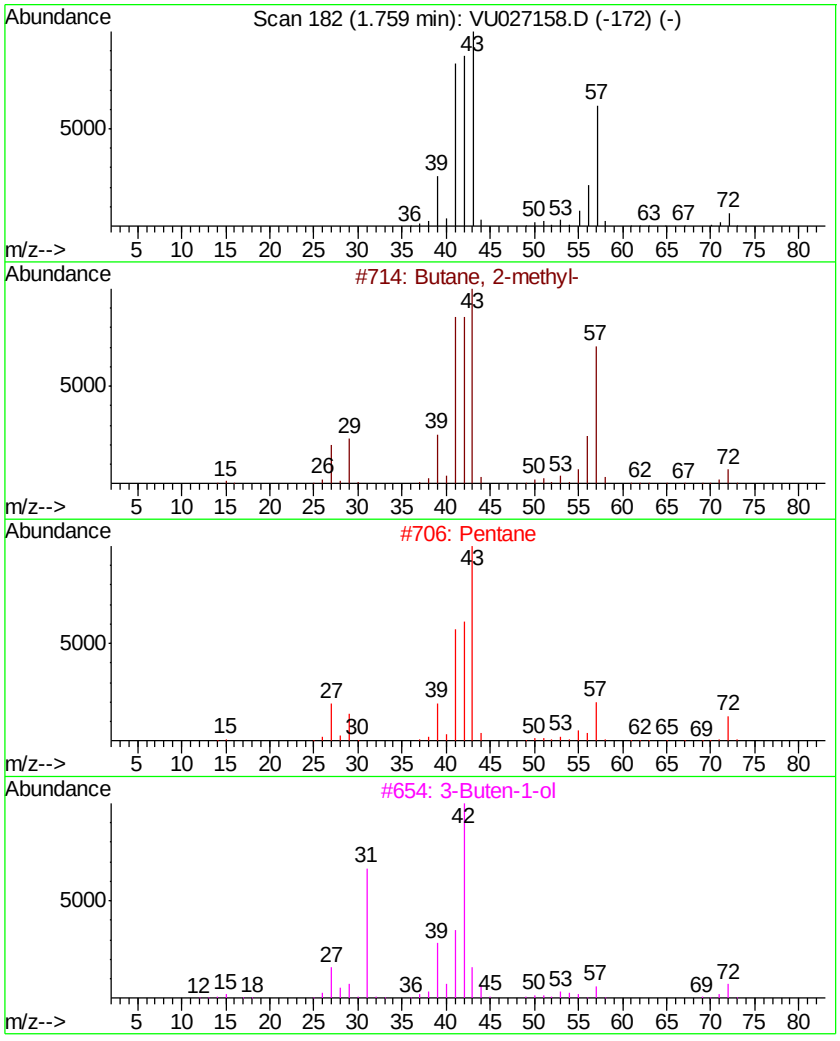
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

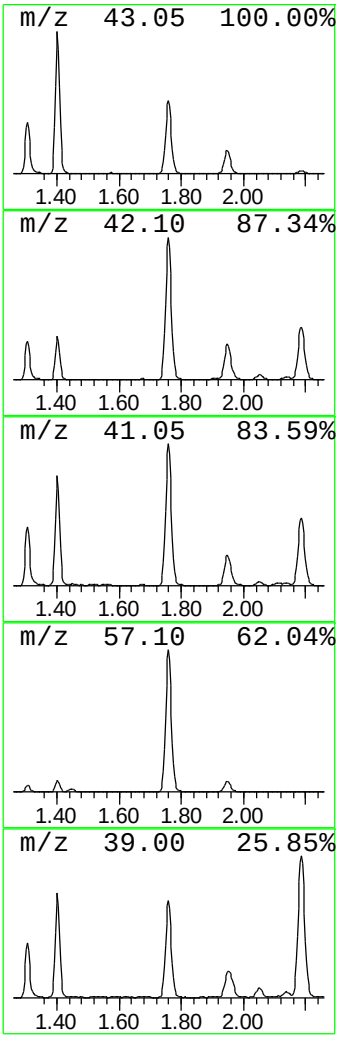
****

Peak Number 3 Butane, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.76	31.03 ug/l	357842	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	94
2	Pentane	72	C5H12	000109-66-0	45
3	3-Buten-1-ol	72	C4H8O	000627-27-0	25
4	Methane, isocyanato-	57	C2H3NO	000624-83-9	9
5	1-Butene	56	C4H8	000106-98-9	9





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

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

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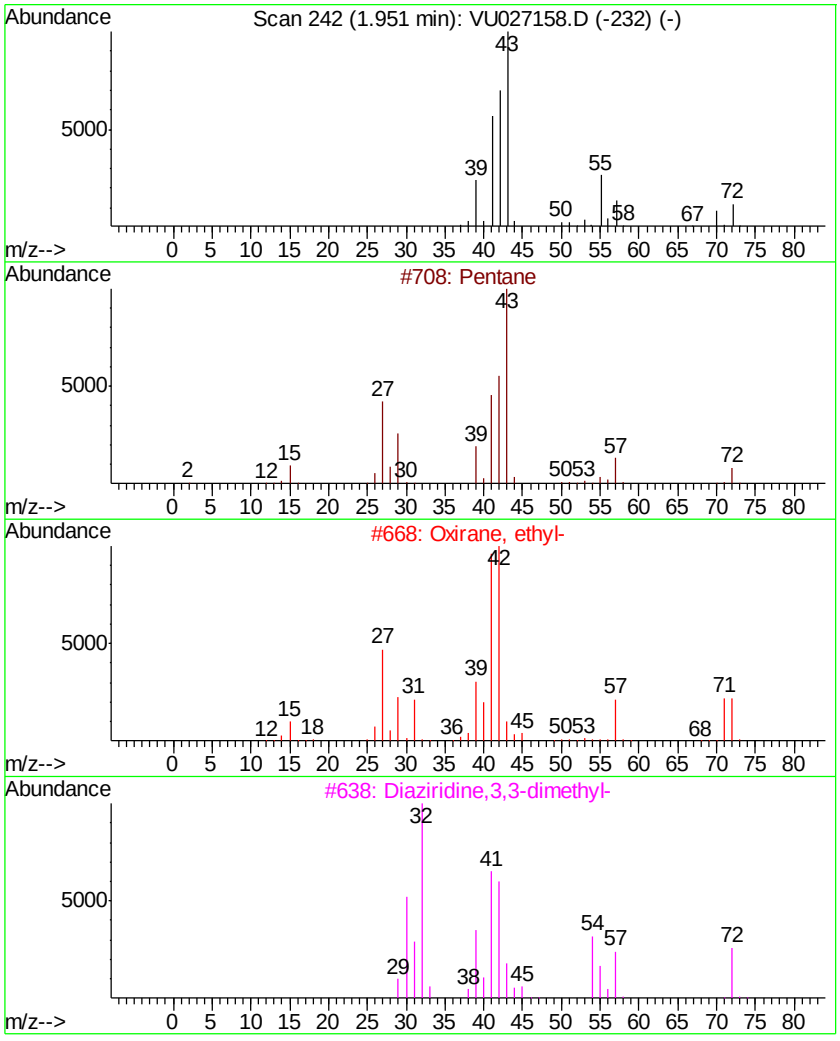
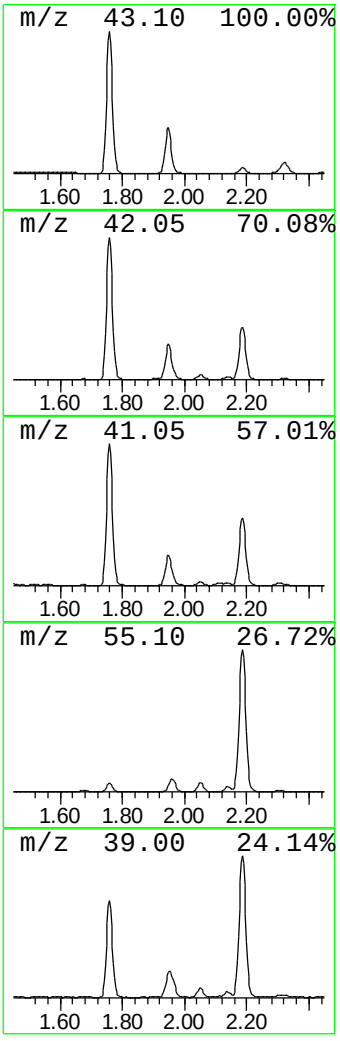
Peak Number 4 Pentane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.95	9.50 ug/l	109574	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane	72	C5H12	000109-66-0	86
2	Oxirane, ethyl-	72	C4H8O	000106-88-7	40
3	Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	38
4	Butane, 2-methyl-	72	C5H12	000078-78-4	38
5	2(3H)-Furanone, dihydro-4-methyl-	100	C5H8O2	001679-49-8	28





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

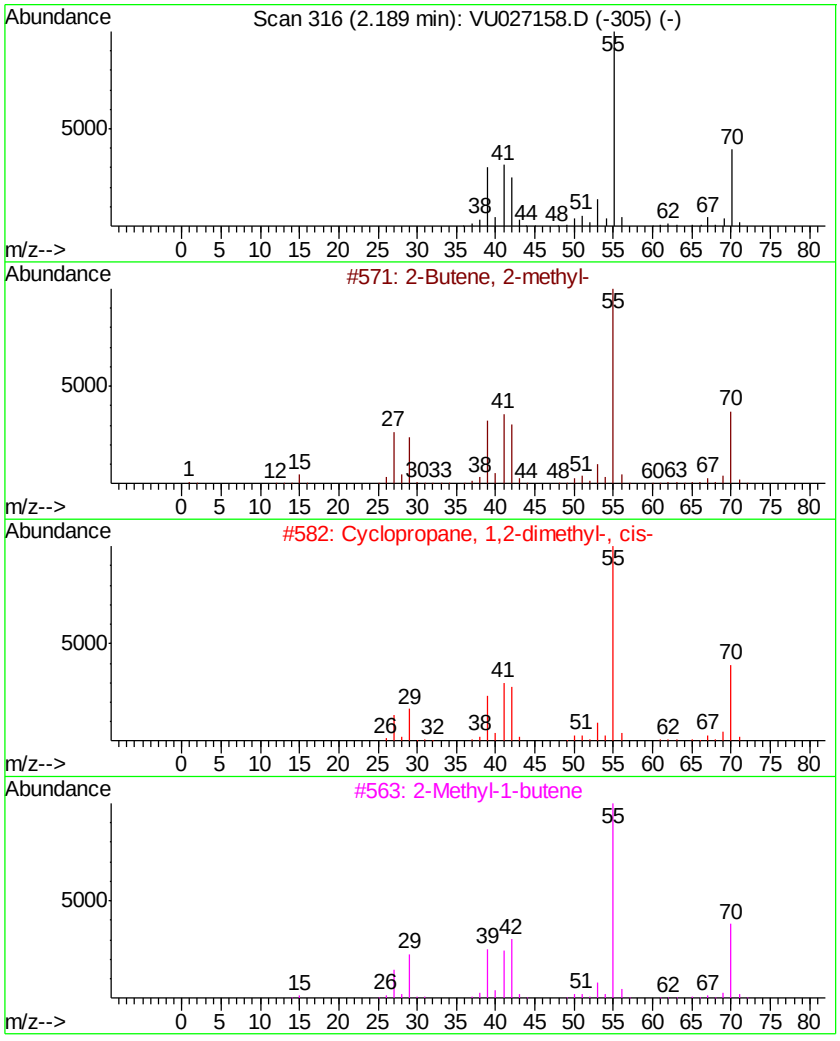
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

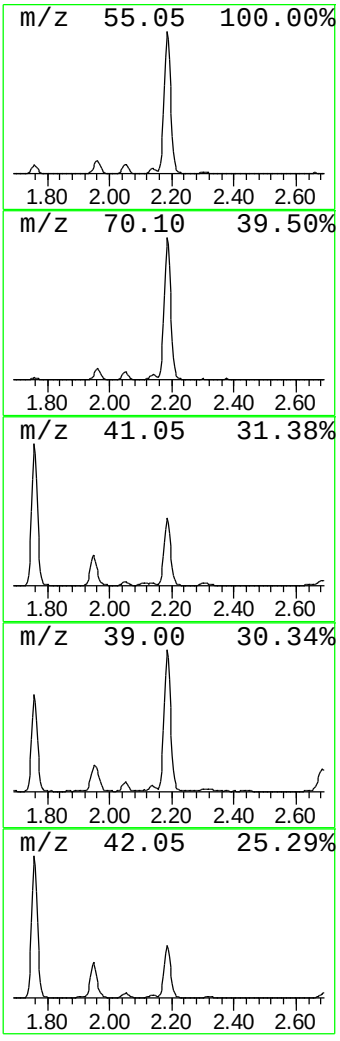
****

Peak Number 5 2-Butene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.19	30.03 ug/l	346300	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene, 2-methyl-	70	C5H10	000513-35-9	91
2	Cyclopropane, 1,2-dimethyl-, cis-	70	C5H10	000930-18-7	91
3	2-Methyl-1-butene	70	C5H10	000563-46-2	86
4	1-Butene, 3-methyl-	70	C5H10	000563-45-1	86
5	Cyclopropane, 1,2-dimethyl-, trans-	70	C5H10	002402-06-4	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

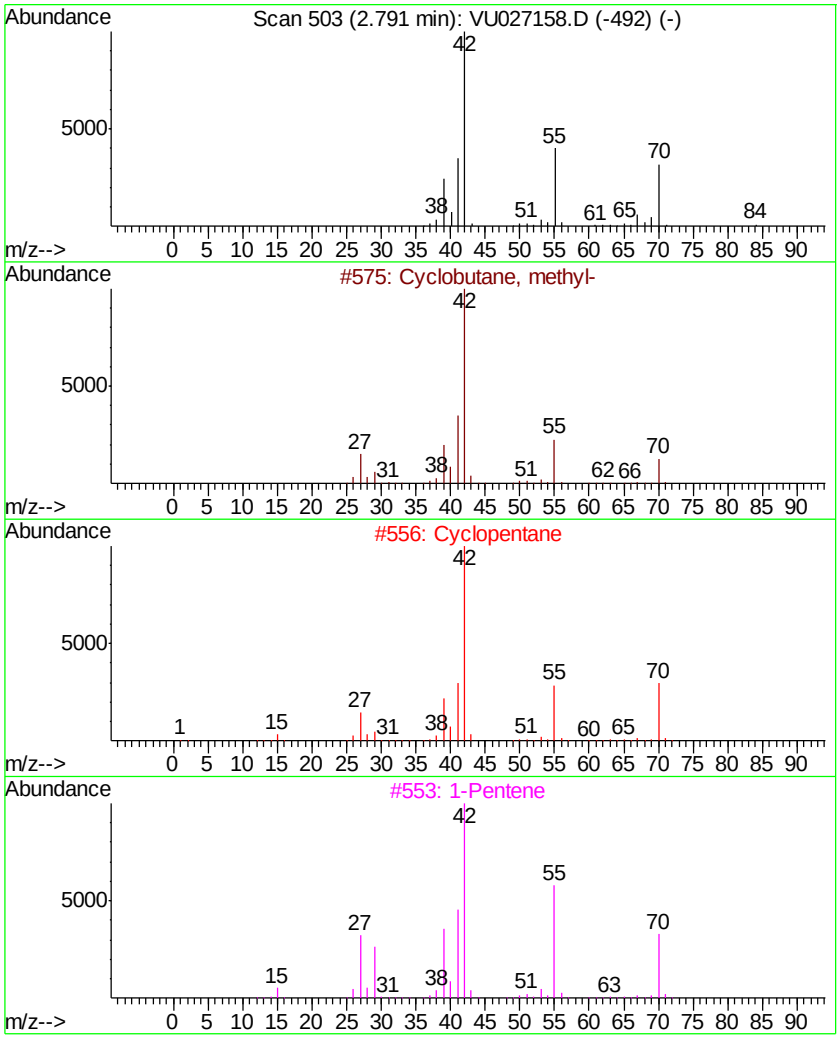
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

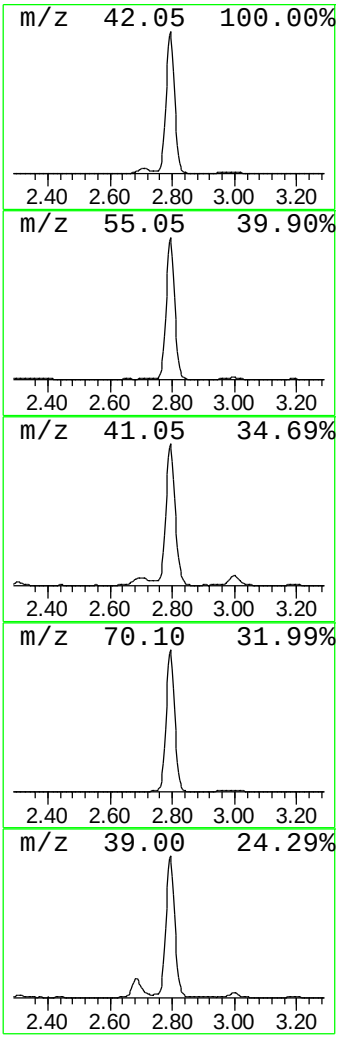
****

Peak Number 6 Cyclobutane, methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.79	54.93 ug/l	633396	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, methyl-	70	C5H10	000598-61-8	86
2	Cyclopentane	70	C5H10	000287-92-3	86
3	1-Pentene	70	C5H10	000109-67-1	86
4	Cyclobutanone	70	C4H6O	001191-95-3	45
5	3-Buten-1-ol	72	C4H8O	000627-27-0	42





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

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

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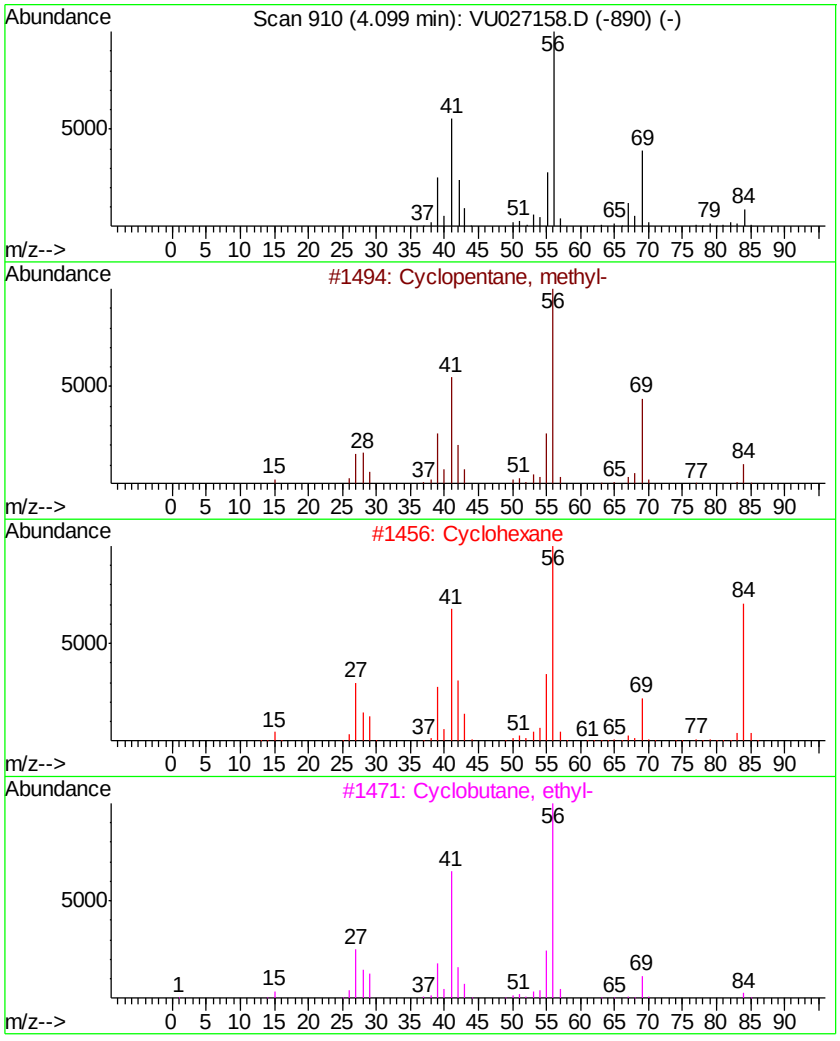
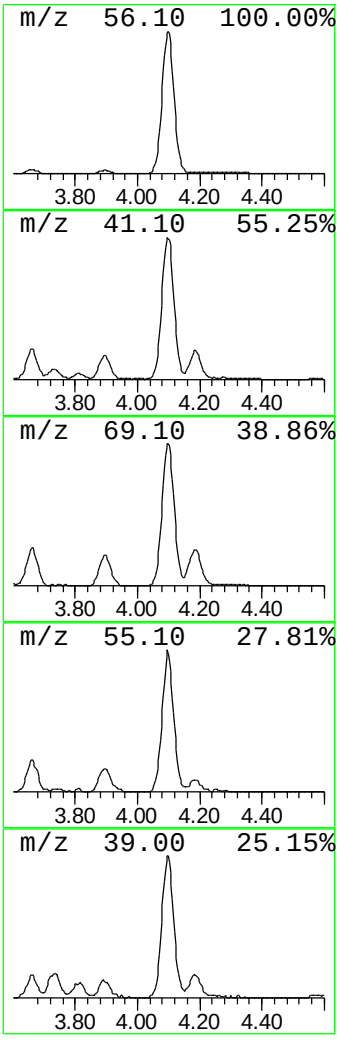
Peak Number 7 Cyclopentane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.10	27.67 ug/l	319053	Pentafluorobenzene	4.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclohexane	84	C6H12	000110-82-7	78
3	Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
4	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64
5	Cyclobutane	56	C4H8	000287-23-0	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

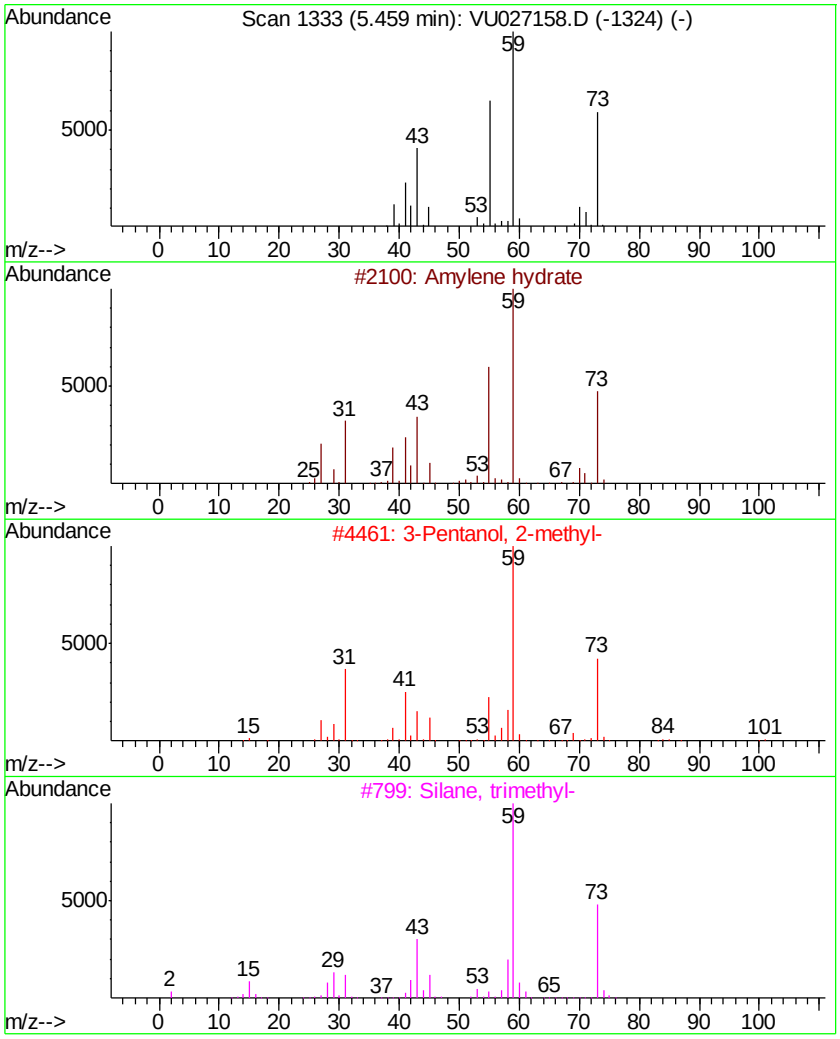
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

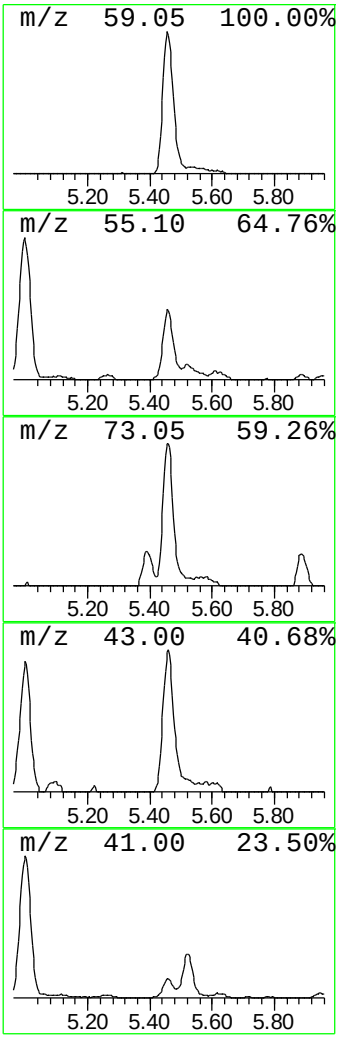
****

Peak Number 8 Amylene hydrate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.46	9.76 ug/l	79851	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Amylene hydrate	88	C5H12O	000075-85-4	83
2	3-Pentanol, 2-methyl-	102	C6H14O	000565-67-3	45
3	Silane, trimethyl-	74	C3H10Si	000993-07-7	38
4	3-Hexanol	102	C6H14O	000623-37-0	38
5	Propanoic acid, 2-hydroxy-2-methyl-	104	C4H8O3	000594-61-6	33





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Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

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

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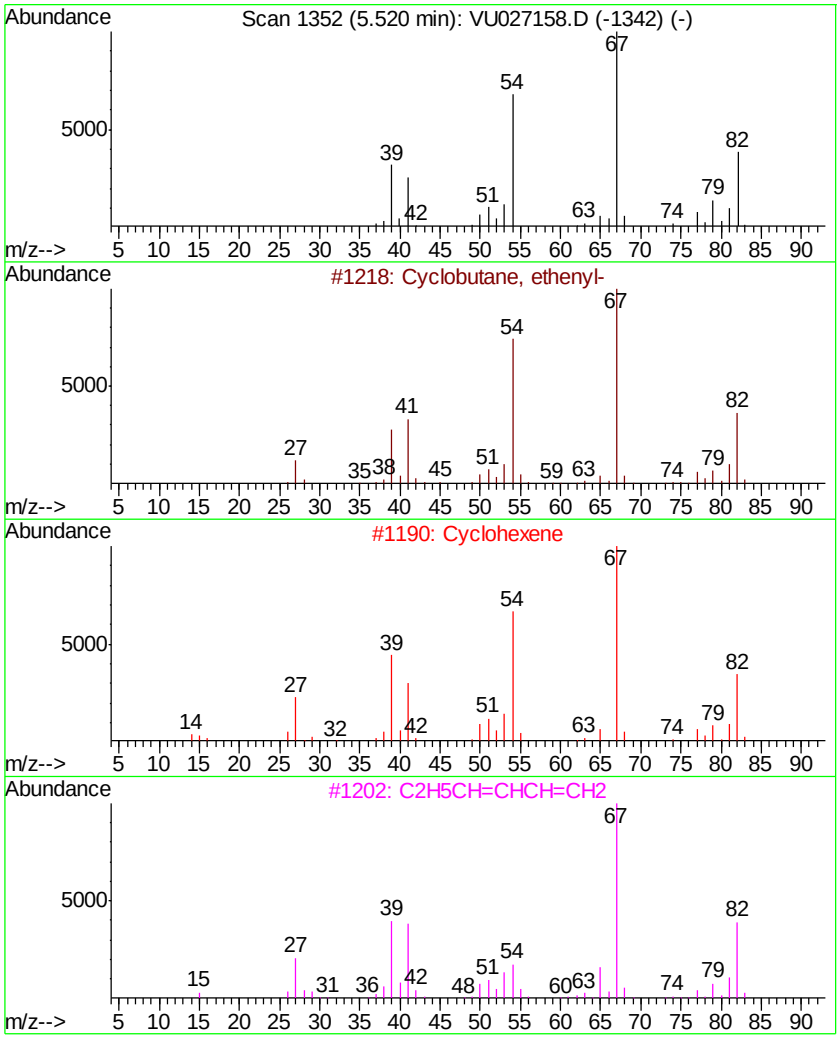
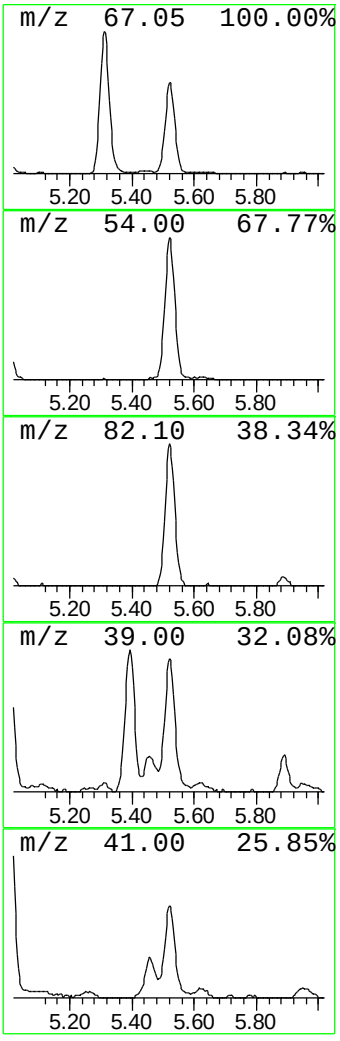
Peak Number 9 Cyclobutane, ethenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.52	18.61 ug/l	152321	1,4-Difluorobenzene	5.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclobutane, ethenyl-	82	C6H10	002597-49-1	90
2	Cyclohexene	82	C6H10	000110-83-8	90
3	C2H5CH=CHCH=CH2	82	C6H10	000592-48-3	81
4	Ethylidenecyclobutane	82	C6H10	001528-21-8	80
5	(Z),(Z)-2,4-Hexadiene	82	C6H10	006108-61-8	74





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.M
Quant Title : SW846 8260

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

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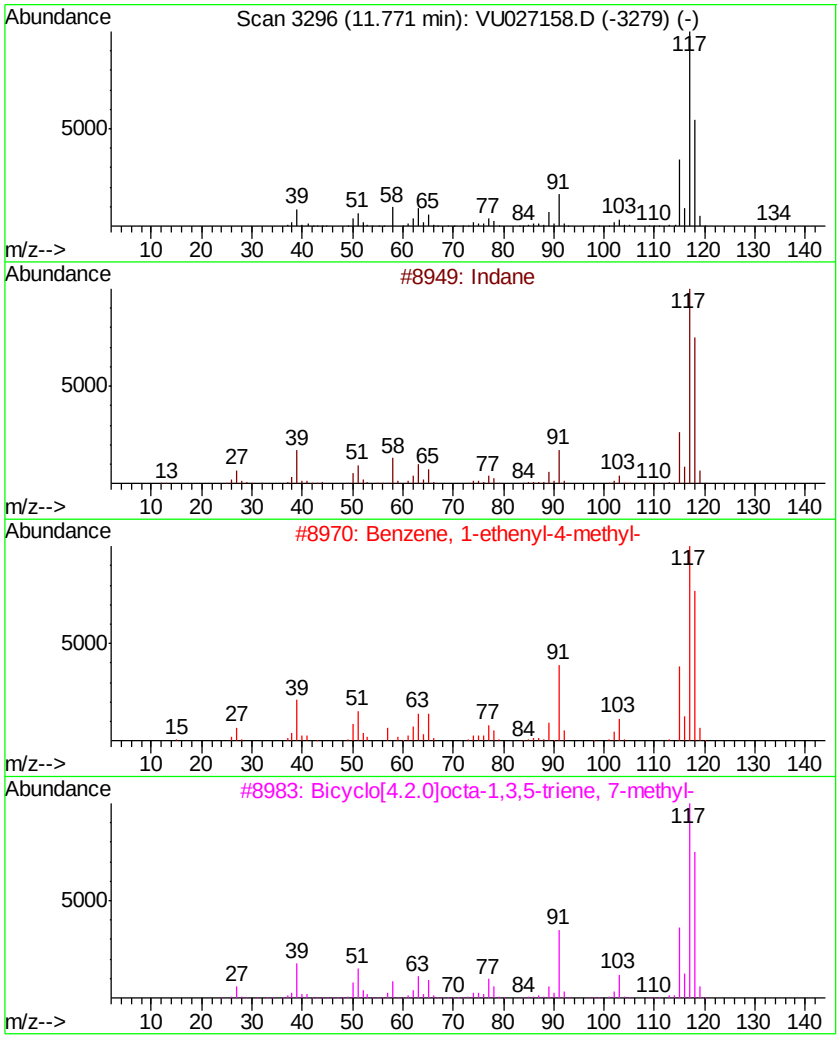
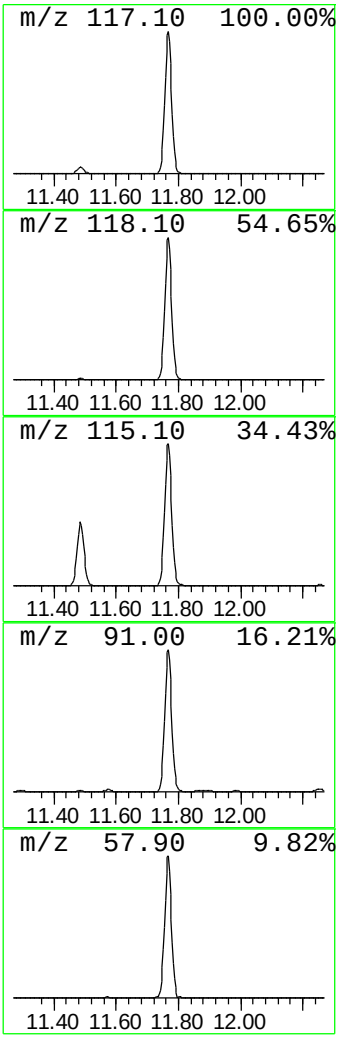
Peak Number 10 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	99.19 ug/l	970211	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	96
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	83
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	118	C9H10	055337-80-9	72
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	68
5	Deltacyclene	118	C9H10	007785-10-6	68





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092618\
Data File : VU027158.D
Acq On : 26 Sep 2018 04:02
Operator : MD/SY
Sample : J5032-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 39 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : MW-10-092018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U092218W.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
Isobutane	1.31	9.6	ug/l	110390	1	4.99	576583	50.0
Butane	1.40	21.2	ug/l	244057	1	4.99	576583	50.0
Butane, 2-methyl-	1.76	31.0	ug/l	357842	1	4.99	576583	50.0
Pentane	1.95	9.5	ug/l	109574	1	4.99	576583	50.0
2-Butene, 2-methyl-	2.19	30.0	ug/l	346300	1	4.99	576583	50.0
Cyclobutane, methyl-	2.79	54.9	ug/l	633396	1	4.99	576583	50.0
Cyclopentane, met...	4.10	27.7	ug/l	319053	1	4.99	576583	50.0
Amylene hydrate	5.46	9.8	ug/l	79851	2	5.89	409204	50.0
Cyclobutane, ethe...	5.52	18.6	ug/l	152321	2	5.89	409204	50.0
Indane	11.77	99.2	ug/l	970211	4	11.48	489061	50.0