LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.399	88	96	104	rBV	186109	206483	4.59%	0.363%
2	1.672	173	181	195	rVB	139474	183091	4.07%	0.321%
3	1.749	195	205	219	rVB	551899	739360	16.44%	1.298%
4	2.270	354	367	371	rBV	330901	524479	11.67%	0.921%
5	2.299	371	376	400	rVB	412778	720143	16.02%	1.264%
6	2.698	485	500	518	rBV	867048	1767010	39.30%	3.103%
7	2.836	533	543	561	rVB	90204	192575	4.28%	0.338%
8	2.984	574	589	607	rBV	363404	755055	16.79%	1.326%
9	3.836	835	854	877	rBV3	128251	364908	8.12%	0.641%
10	3.977	877	898	916	rVV3	255637	710403	15.80%	1.247%
11	4.077	916	929	947	rVB3	50381	133364	2.97%	0.234%
12	4.190	947	964	1003	rBV2	232442	741546	16.49%	1.302%
13	4.643	1089	1105	1116	rBV	220706	518897	11.54%	0.911%
14	4.720	1117	1129	1153	rVB2	232057	637133	14.17%	1.119%
15	5.071	1220	1238	1259	rVB	806434	1964068	43.68%	3.449%
16	5.247	1267	1293	1302	rBV6	109314	303461	6.75%	0.533%
17	5.331	1302	1319	1329	rVV2	468469	1286463	28.61%	2.259%
18	5.382	1330	1335	1350	rVV2	248379	481002	10.70%	0.845%
19	5.476	1350	1364	1372	rVV3	313521	734426	16.34%	1.290%
20	5.530	1373	1381	1398	rVV5	256608	664865	14.79%	1.167%
21	5.611	1398	1406	1422	rVB3	49071	108815	2.42%	0.191%
22	5.881	1476	1490	1511	rBV	463807	920716	20.48%	1.617%
23	6.325	1617	1628	1639	rVV2	281829	562474	12.51%	0.988%
24	6.382	1639	1646	1662	rVB3	122857	257511	5.73%	0.452%
25	6.469	1662	1673	1681	rBV4	70130	130513	2.90%	0.229%
26	6.527	1681	1691	1701	rVV2	156291	304592	6.77%	0.535%
27	6.726	1736	1753	1769	rBV4	150454	357828	7.96%	0.628%
28	6.916	1790	1812	1831	rVB4	170486	451964	10.05%	0.794%
29	7.042	1831	1851	1861	rBV	204665	437039	9.72%	0.767%
30	7.096	1861	1868	1877	rVB2	77526	124640	2.77%	0.219%
31	7.225	1894	1908	1922	rBV3	185831	457695	10.18%	0.804%
32	7.296	1923	1930	1939	rVV3	78140	153134	3.41%	0.269%
33	7.366	1940	1952	1964	rVV3	93413	206887	4.60%	0.363%
34	7.437	1964	1974	1988	rVB2	54152	100167	2.23%	0.176%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

35	7.559	2004	2012	2031	rVB	618215	1109425	24.68%	1.948%
36	7.701	2045	2056	2065	rBV5	65993	136951	3.05%	0.240%
37	7.849	2092	2102	2112	rBV3	99801	174433	3.88%	0.306%
38	7.910	2113	2121	2142	rVB3	112719	220037	4.89%	0.386%
39	8.038	2142	2161	2171	rBV5	125970	266912	5.94%	0.469%
40	8.312	2235	2246	2265	rBV	720236	1357718	30.20%	2.384%
41	8.482	2282	2299	2309	rBV6	58345	126311	2.81%	0.222%
42	9.087	2475	2487	2506	rVV	644407	1105704	24.59%	1.941%
43	9.244	2526	2536	2559	rVB	416696	696465	15.49%	1.223%
44	10.164	2811	2822	2837	rBV2	116513	191280	4.25%	0.336%
45	10.427	2894	2904	2917	rVV	248291	401662	8.93%	0.705%
46	10.585	2942	2953	2975	rVB	191843	319094	7.10%	0.560%
47	10.967	3056	3072	3092	rBV	244954	426697	9.49%	0.749%
48	11.286	3157	3171	3176	rBV2	95925	159917	3.56%	0.281%
49	11.318	3176	3181	3196	rVB	139101	219496	4.88%	0.385%
50	11.424	3200	3214	3221	rVV	105548	168177	3.74%	0.295%
51	11.479	3221	3231	3252	rVV	697614	1171376	26.05%	2.057%
52	11.684	3283	3295	3307	rBV	72448	117409	2.61%	0.206%
53	11.765	3307	3320	3339	rBV3	2117369	4496019	100.00%	7.894%
54	11.858	3339	3349	3370	rVB3	1150629	1969809	43.81%	3.459%
55	11.977	3375	3386	3398	rVB	282285	434866	9.67%	0.764%
56	12.051	3398	3409	3426	rVB	570263	877067	19.51%	1.540%
57	12.144	3428	3438	3442	rBV	94508	141888	3.16%	0.249%
58	12.247	3456	3470	3475	rBV	234806	386934	8.61%	0.679%
59	12.279	3475	3480	3492	rVB	326033	501584	11.16%	0.881%
60	12.350	3492	3502	3508	rBV	609644	1006729	22.39%	1.768%
61	12.385	3509	3513	3525	rVB4	289825	516005	11.48%	0.906%
62	12.488	3533	3545	3552	rBV4	89961	173531	3.86%	0.305%
63	12.537	3552	3560	3574	rVB4	140035	259085	5.76%	0.455%
64	12.646	3574	3594	3602	rBV	1535542	2504989	55.72%	4.398%
65	12.697	3602	3610	3625	rVB	1381217	2161945	48.09%	3.796%
66	12.781	3626	3636	3652	rBV3	391527	660534	14.69%	1.160%
67	12.874	3658	3665	3668	rBV	84185	107310	2.39%	0.188%
68	12.922	3675	3680	3686	rVV2	116929	151111	3.36%	0.265%
69	12.958	3686	3691	3698	rVB	172097	227288	5.06%	0.399%
70	13.077	3718	3728	3731	rBV2	241756	352808	7.85%	0.619%
71	13.115	3732	3740	3754	rVV3	1995215	3454122	76.83%	6.065%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.1 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\SOMUTR052219WMA.M
Title : TRACE VOA SOM01.0

72	13.180	3754	3760	3769	rVV2	168216	268789	5.98%	0.472%
73	13.234	3769	3777	3789	rVV	301045	454390	10.11%	0.798%
74	13.401	3819	3829	3838	rBV3	265826	463626	10.31%	0.814%
75	13.453	3838	3845	3852	rBV	167531	233390	5.19%	0.410%
76	13.504	3852	3861	3868	rBV3	887467	1474373	32.79%	2.589%
77	13.572	3877	3882	3886	rBV	140946	163264	3.63%	0.287%
78	13.604	3887	3892	3898	rVB	310314	356305	7.92%	0.626%
79	13.726	3914	3930	3939	rBV5	82068	198900	4.42%	0.349%
80	13.784	3939	3948	3959	rVB	123502	196783	4.38%	0.346%
81	13.852	3959	3969	3987	rVB4	217941	408695	9.09%	0.718%
82	13.951	3988	4000	4010	rBV4	309891	655406	14.58%	1.151%
83	14.009	4010	4018	4027	rVV2	219924	368938	8.21%	0.648%
84	14.147	4051	4061	4076	rBV	311103	526097	11.70%	0.924%
85	14.276	4086	4101	4107	rBV7	48819	99284	2.21%	0.174%
86	14.327	4107	4117	4133	rBV2	355809	690449	15.36%	1.212%
87	14.472	4153	4162	4172	rVV2	223666	354739	7.89%	0.623%
88	14.536	4172	4182	4194	rVB3	272163	527871	11.74%	0.927%
89	14.601	4194	4202	4213	rVB3	69977	109701	2.44%	0.193%
90	14.675	4214	4225	4239	rBV4	227029	481036	10.70%	0.845%
91	14.858	4274	4282	4295	rVV3	158381	326550	7.26%	0.573%
92	14.932	4297	4305	4320	rVB5	113084	232067	5.16%	0.407%
93	15.006	4320	4328	4335	rBV3	61835	99143	2.21%	0.174%
94	15.057	4335	4344	4357	rBV2	179518	334512	7.44%	0.587%
95	15.122	4357	4364	4371	rBV4	70515	108411	2.41%	0.190%
96	15.247	4393	4403	4415	rVB6	47896	110867	2.47%	0.195%
97	15.585	4497	4508	4523	rVB4	100574	217671	4.84%	0.382%
98	15.832	4569	4585	4594	rBV3	81037	178444	3.97%	0.313%
99	16.057	4646	4655	4663	rBV	145282	244470	5.44%	0.429%
100	16.430	4763	4771	4782	rBV3	72391	114223	2.54%	0.201%

Sum of corrected areas: 56953789

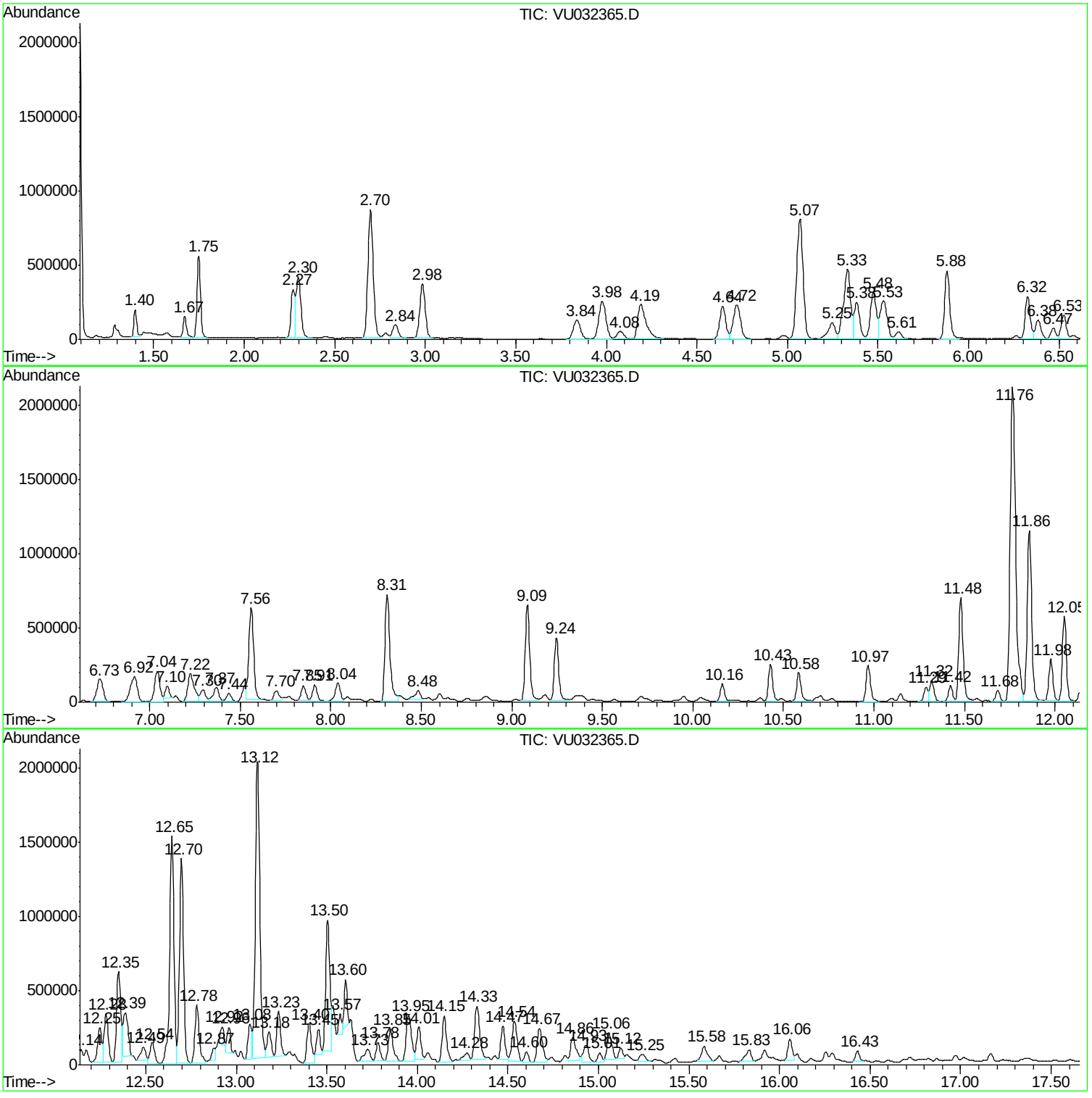
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

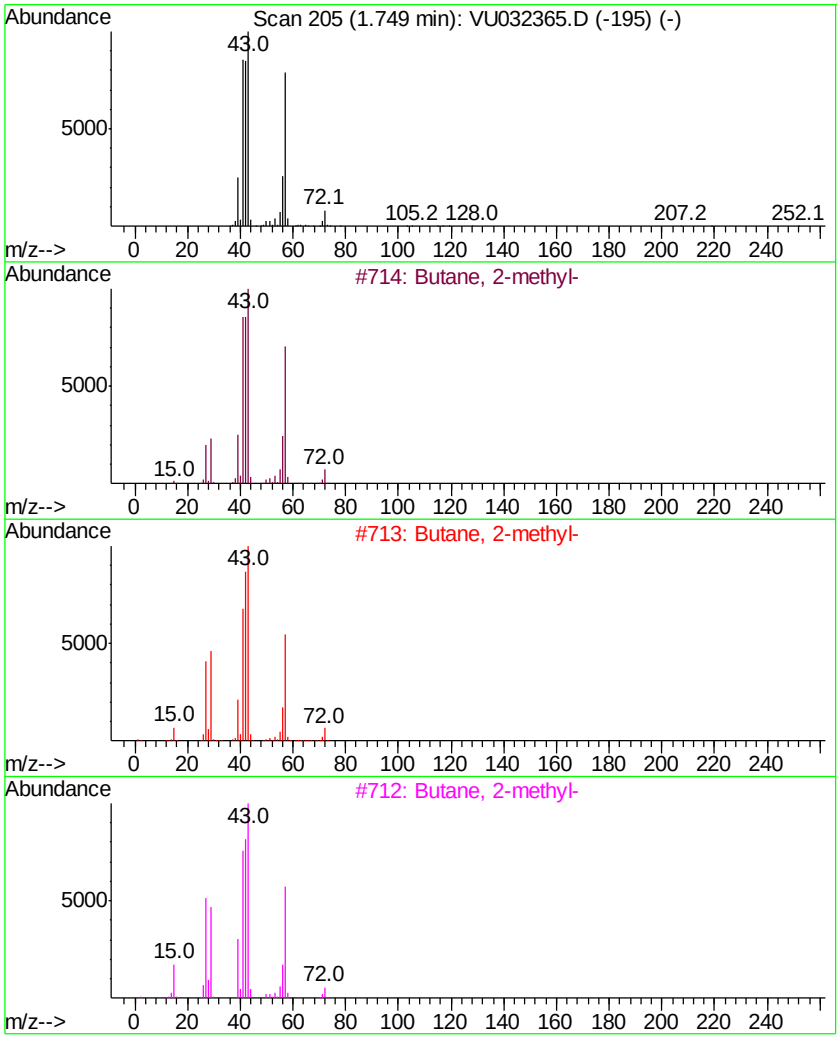
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

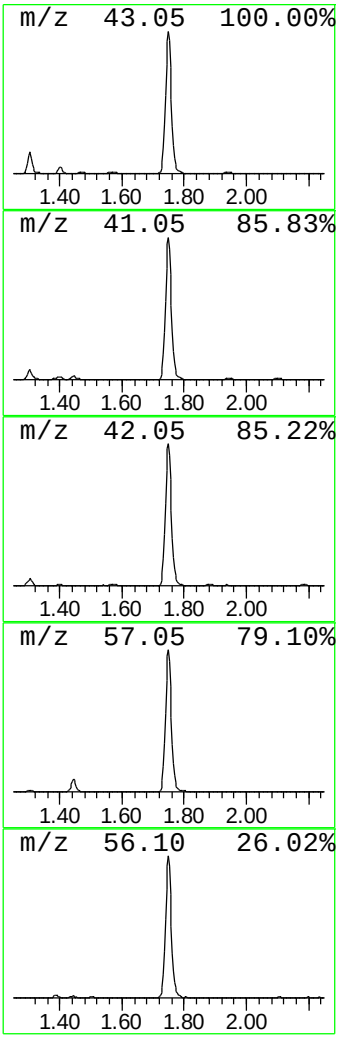
****

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	4.02 ug/L	739360	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methyl-	72	C5H12	000078-78-4	94
2	Butane, 2-methyl-	72	C5H12	000078-78-4	87
3	Butane, 2-methyl-	72	C5H12	000078-78-4	86
4	3-Buten-1-ol	72	C4H8O	000627-27-0	43
5	Pentane	72	C5H12	000109-66-0	36





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

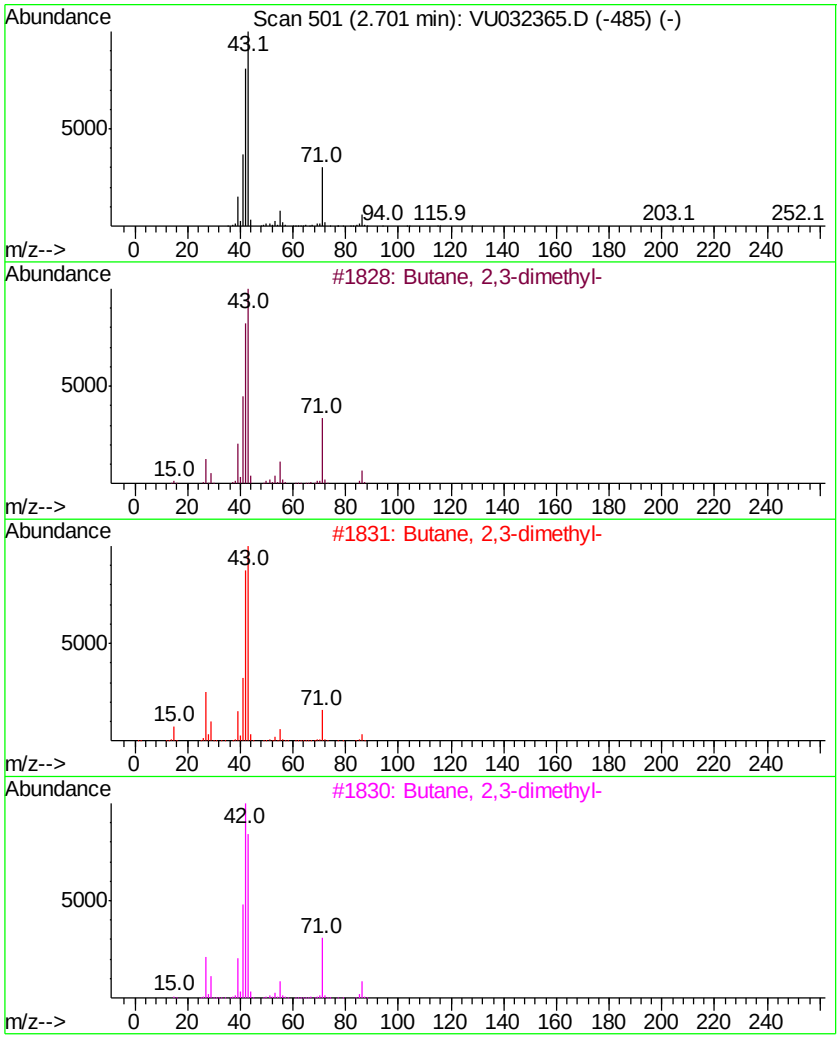
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

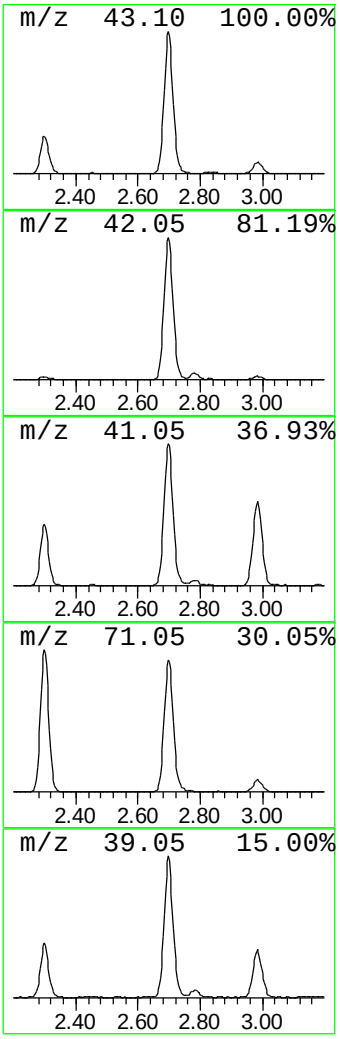
****

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.70	9.60 ug/L	1767010	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	91
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	87
4	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
5	Pentane, 2-methyl-	86	C6H14	000107-83-5	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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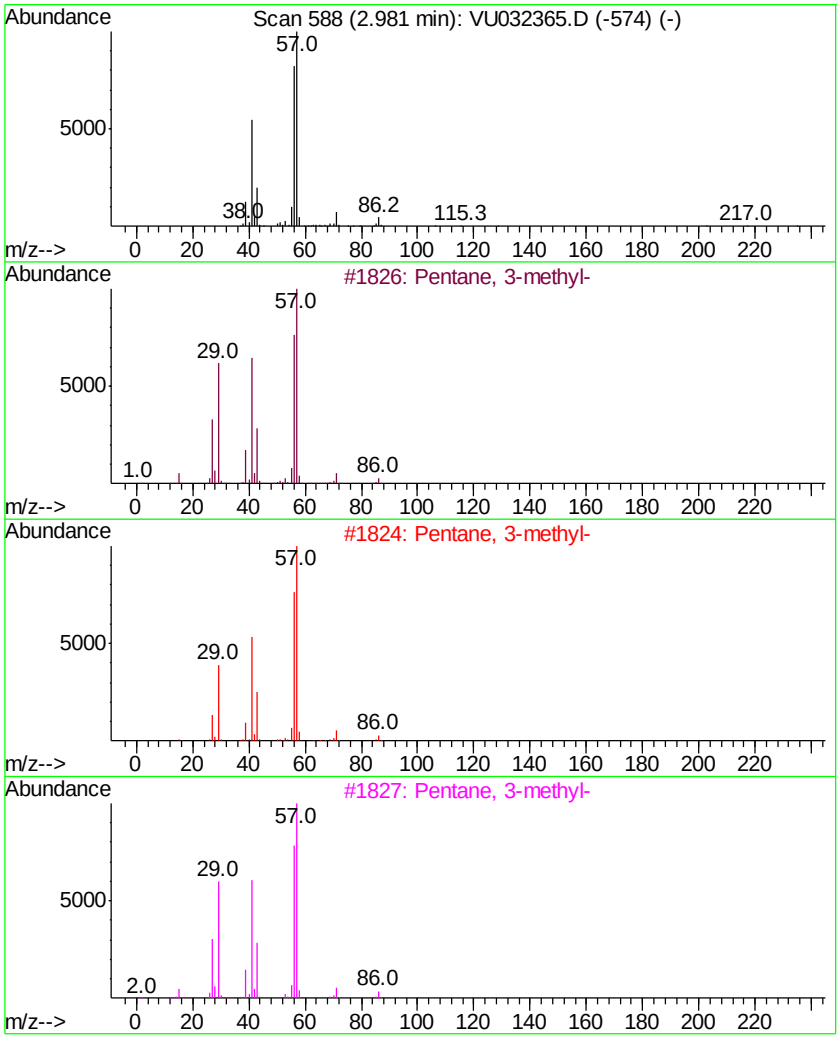
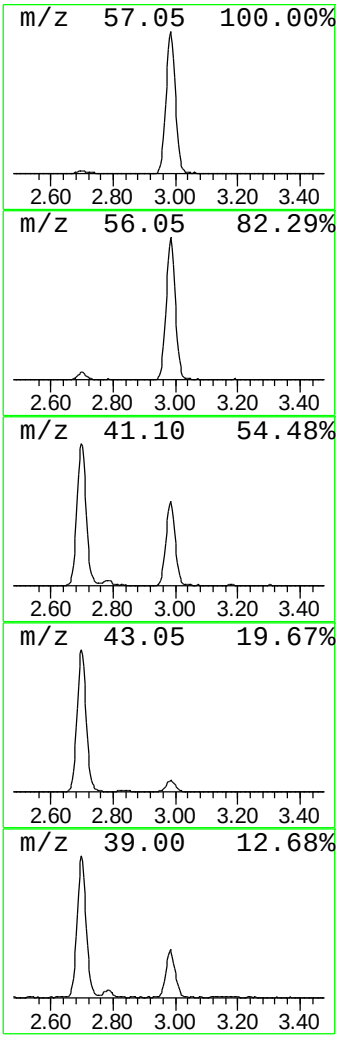
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	4.10 ug/L	755055	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
2	Pentane, 3-methyl-	86	C6H14	000096-14-0	91
3	Pentane, 3-methyl-	86	C6H14	000096-14-0	90
4	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	78
5	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

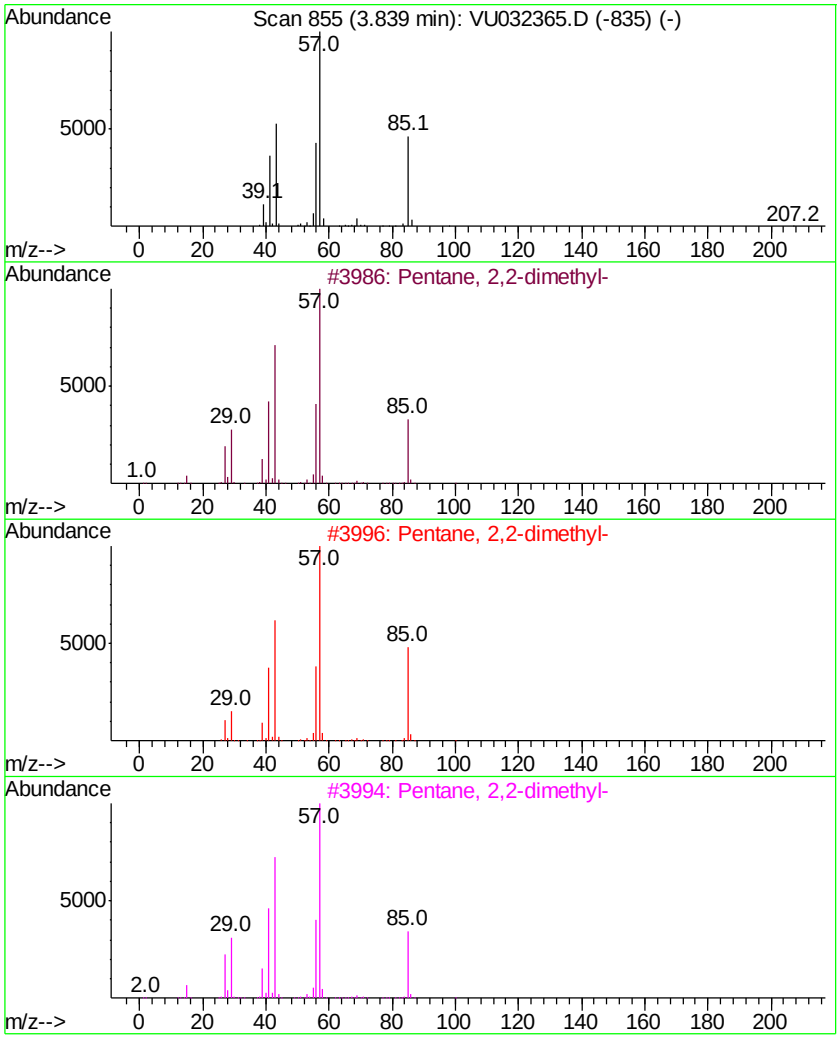
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

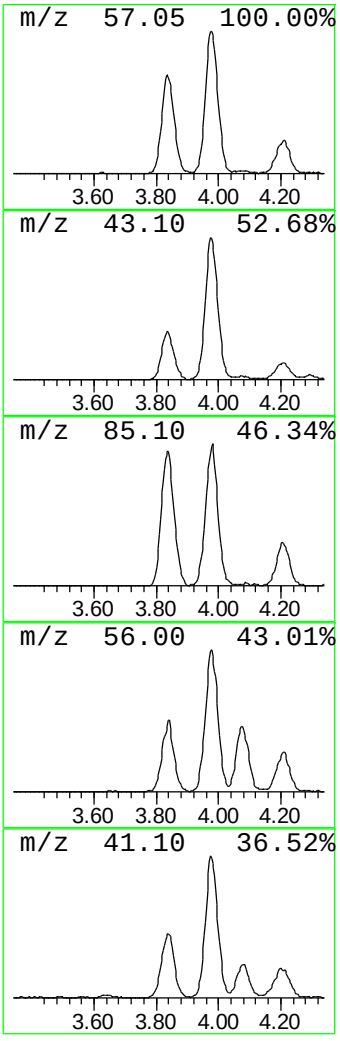
****

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.84	1.98 ug/L	364908	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	78
2	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	78
3	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	74
4	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
5	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

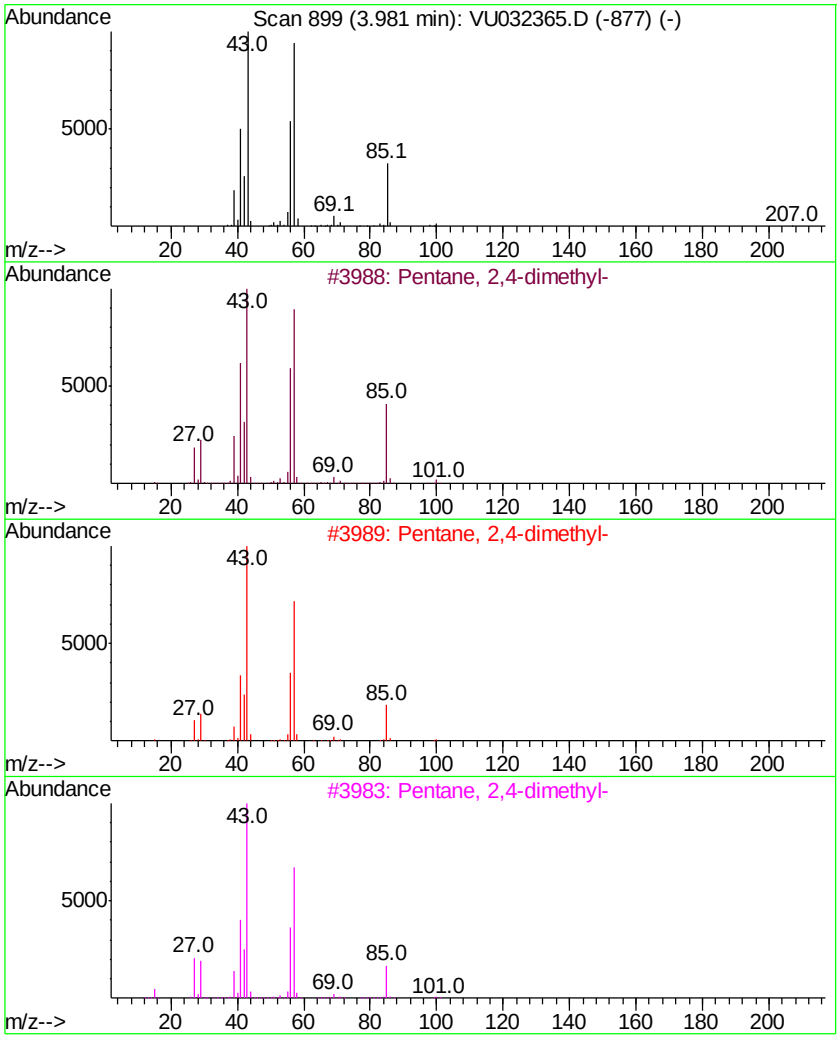
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

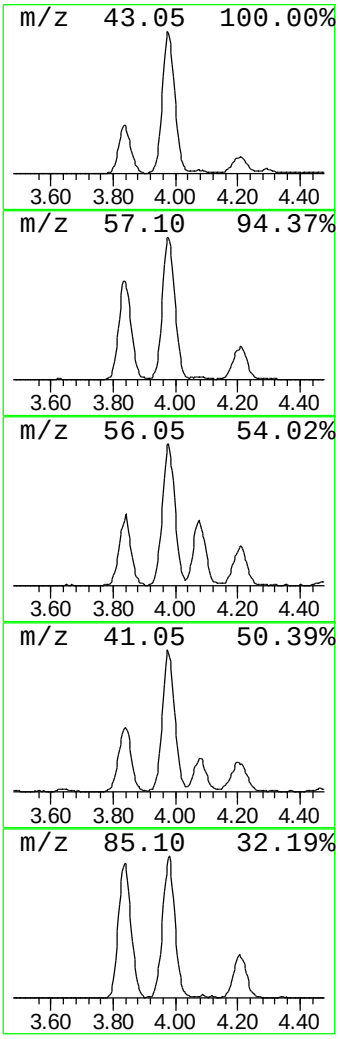
****

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	3.86 ug/L	710403	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	94
2	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
4	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

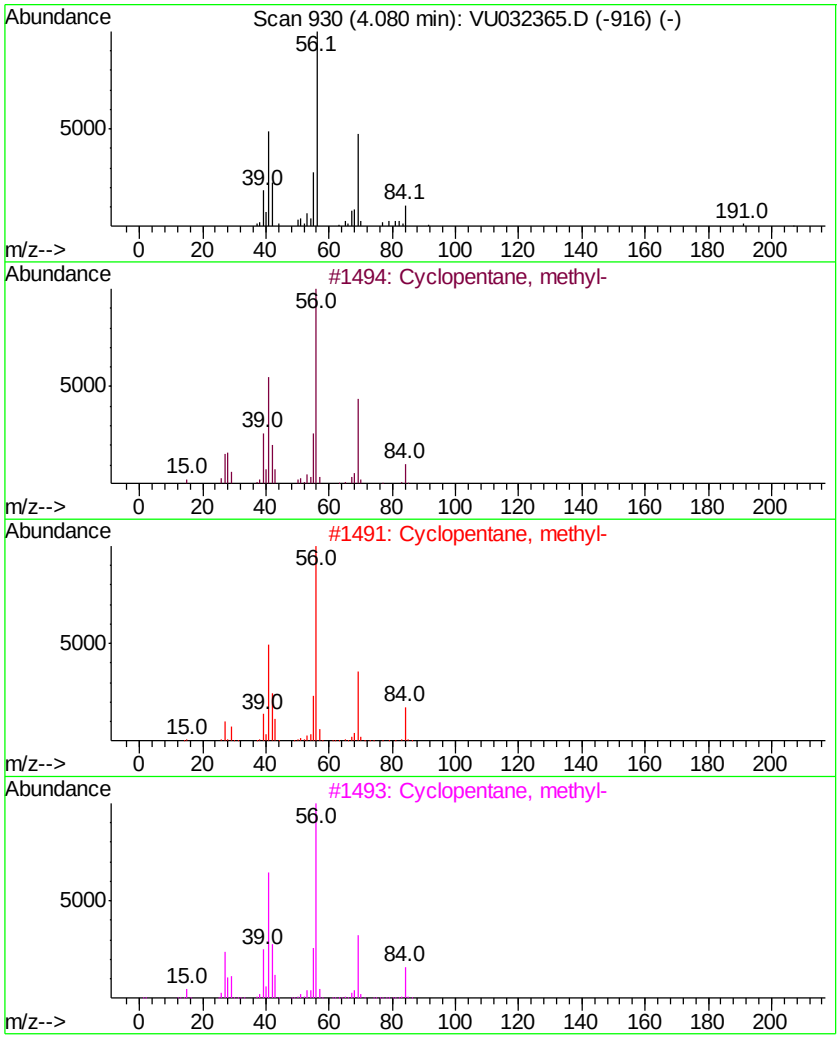
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

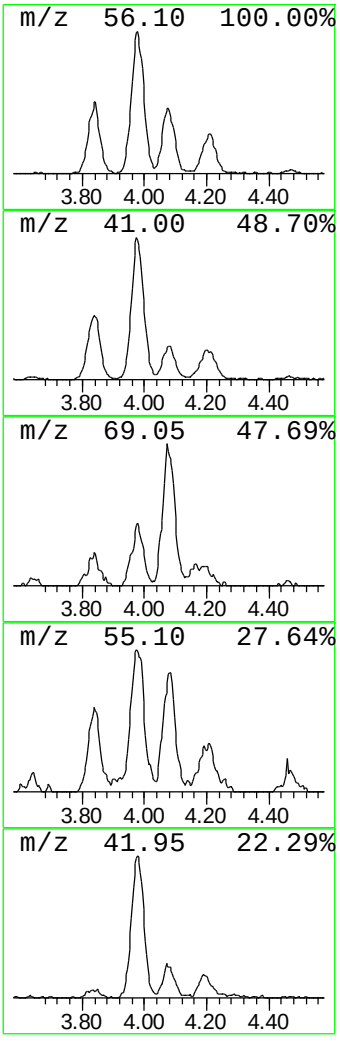
****

Peak Number 7 (DEL) Alkane: Cyclic4.08 Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.08	0.72 ug/L	133364	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	86
4	Cyclohexane	84	C6H12	000110-82-7	78
5	1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	64





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Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

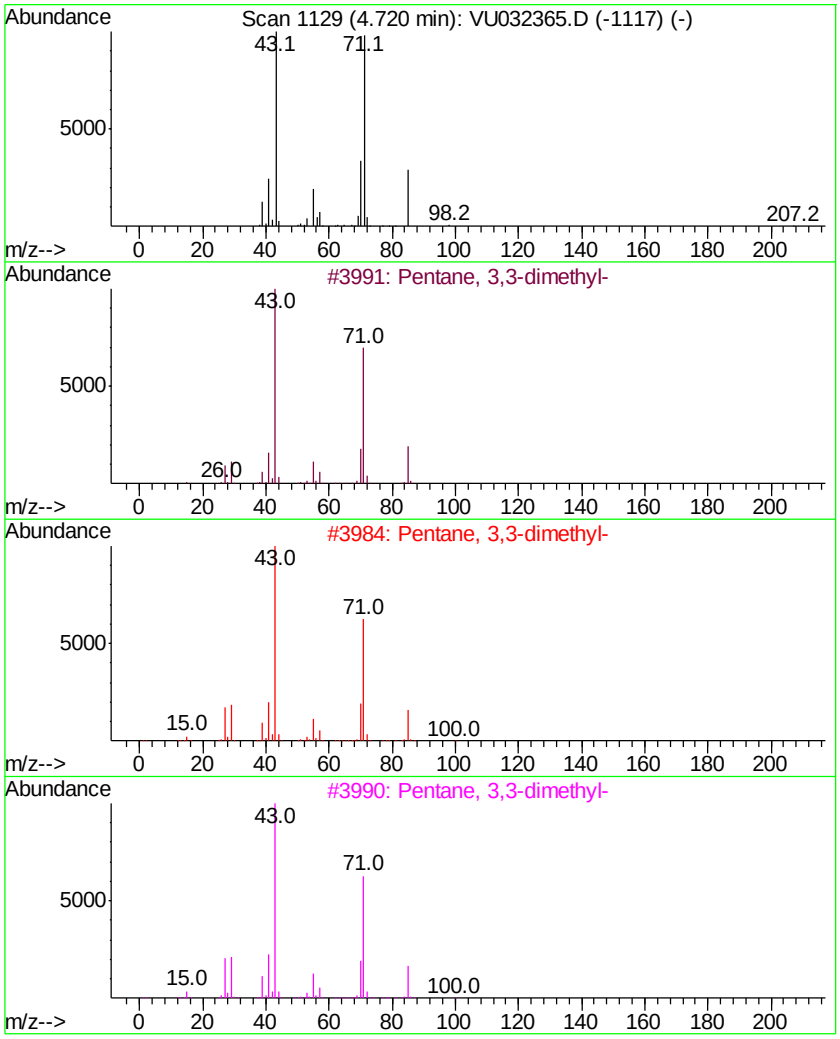
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

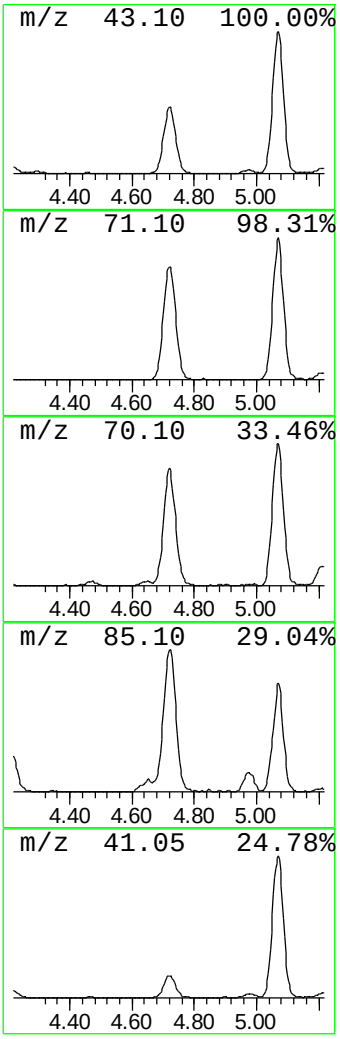
****

Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.72	3.46 ug/L	637133	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	74
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	72
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	72
4	Tetradecane, 4-methyl-	212	C15H32	025117-24-2	56
5	Butane, 2-iodo-3-methyl-	198	C5H11I	018295-27-7	53





Library Search Compound Report

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Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

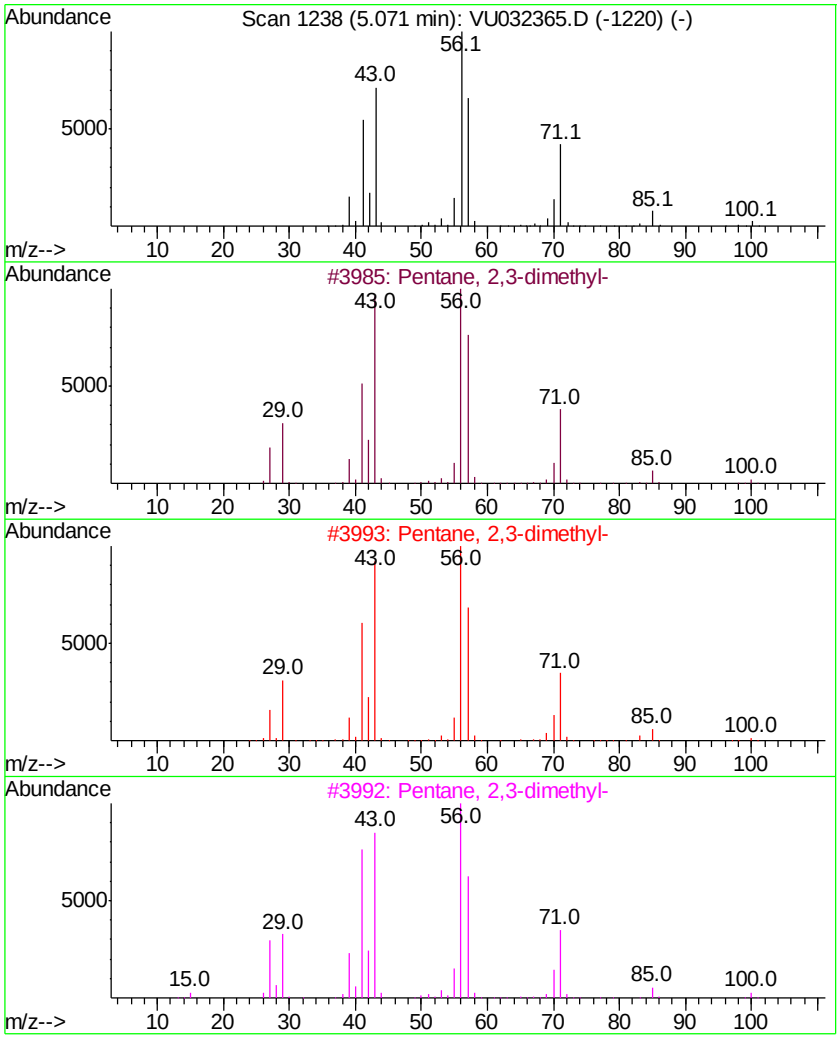
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

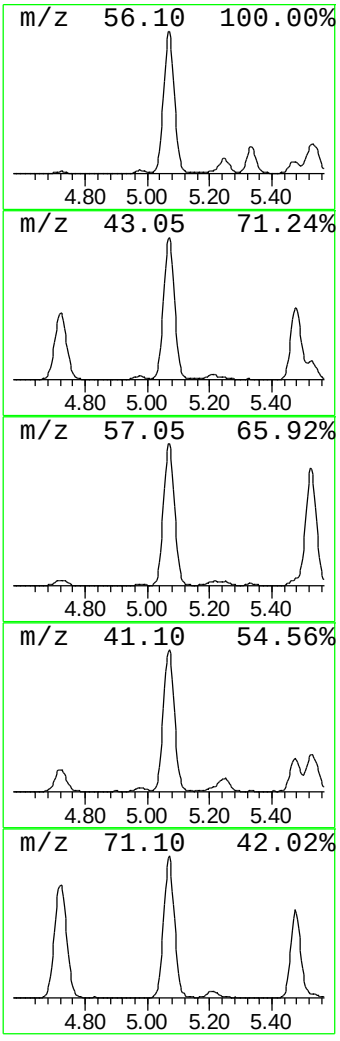
****

Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	10.67 ug/L	1964070	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
2	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	87
4	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	56
5	1,4-Dioxaspiro[2.4]heptan-5-one,...	142	C7H10O3	126091-79-0	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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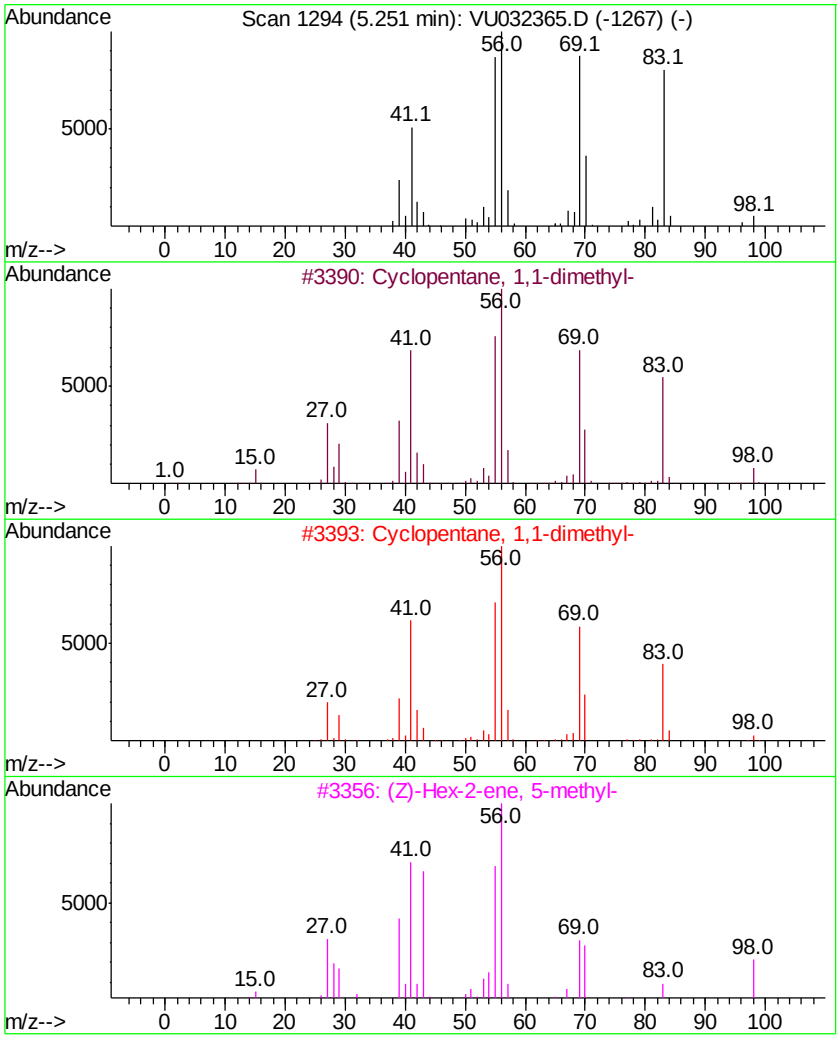
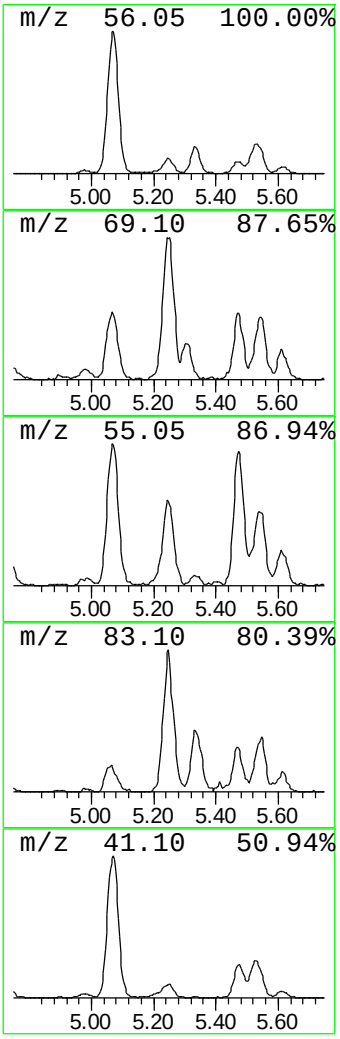
Peak Number 10 (DEL) Alkane: Cyclic5.25 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.25	1.65 ug/L	303461	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	93
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	80
3	(Z)-Hex-2-ene, 5-methyl-	98	C7H14	013151-17-2	41
4	1-Butene, 2,3,3-trimethyl-	98	C7H14	000594-56-9	35
5	2-Pentene, 4,4-dimethyl-, (Z)-	98	C7H14	000762-63-0	35





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Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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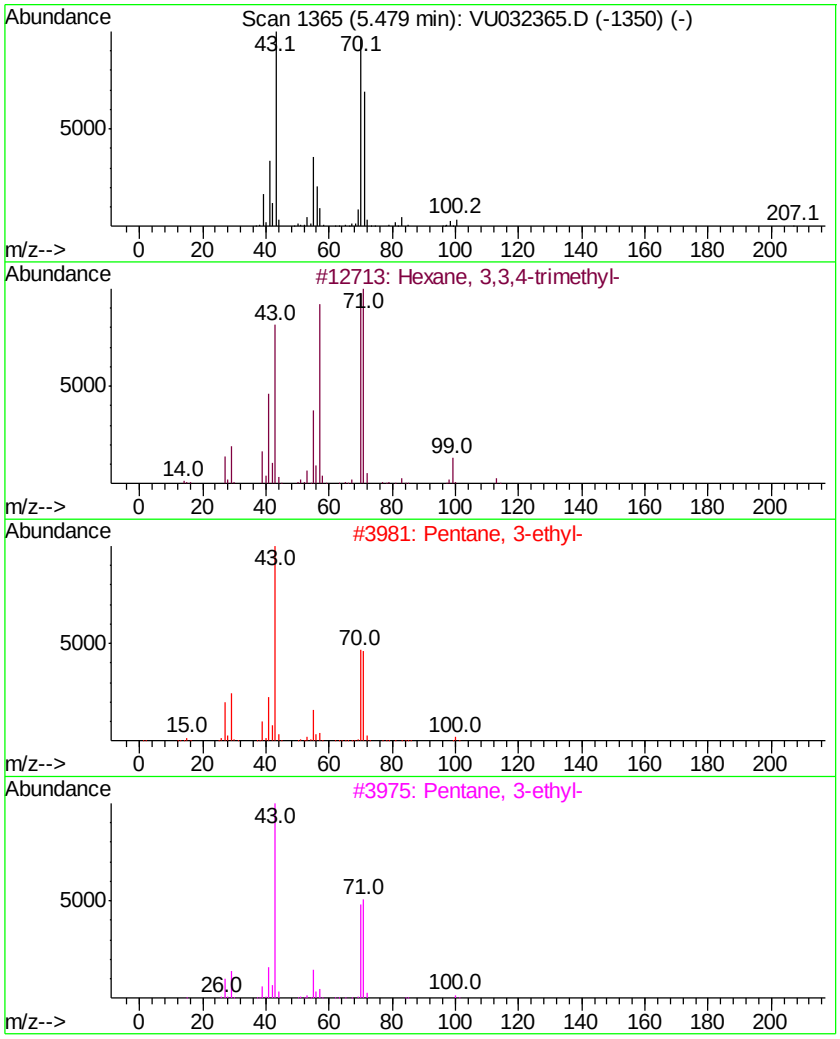
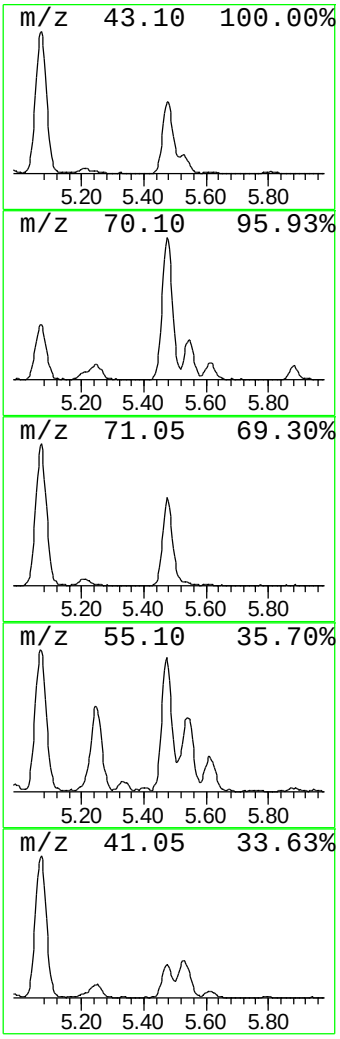
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.48	3.99 ug/L	734426	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	59
2	Pentane, 3-ethyl-	100	C7H16	000617-78-7	53
3	Pentane, 3-ethyl-	100	C7H16	000617-78-7	53
4	Pentane, 3-ethyl-	100	C7H16	000617-78-7	50
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

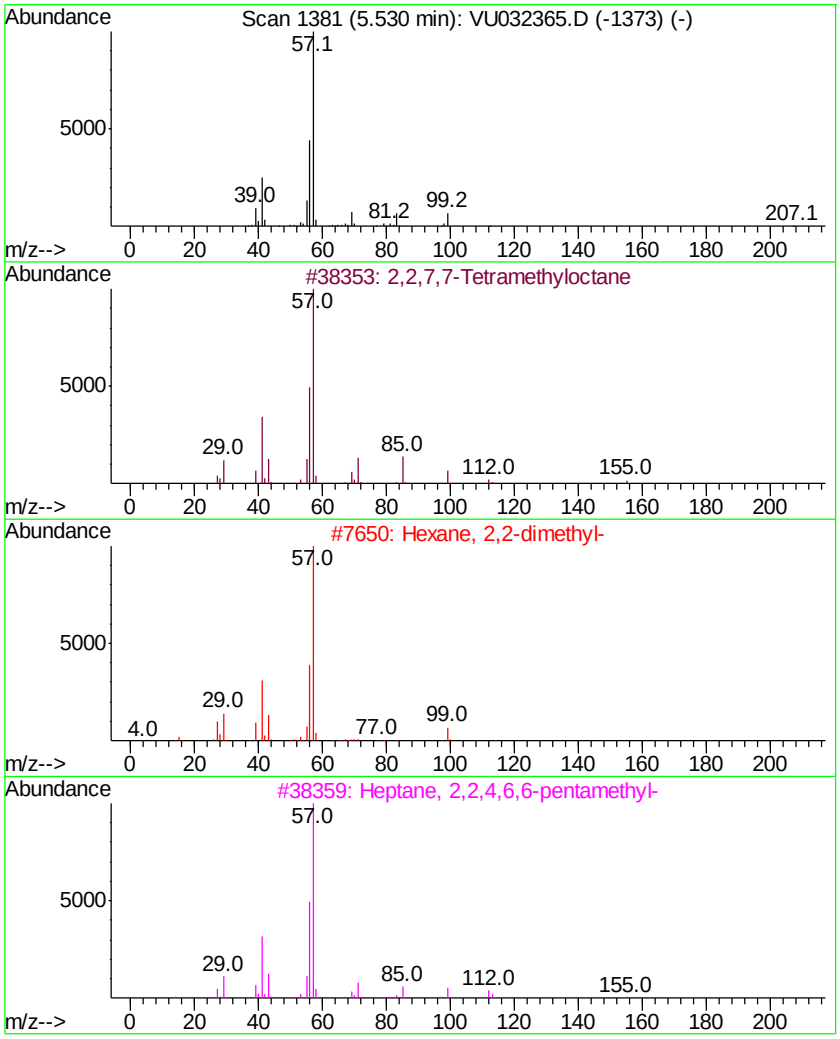
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

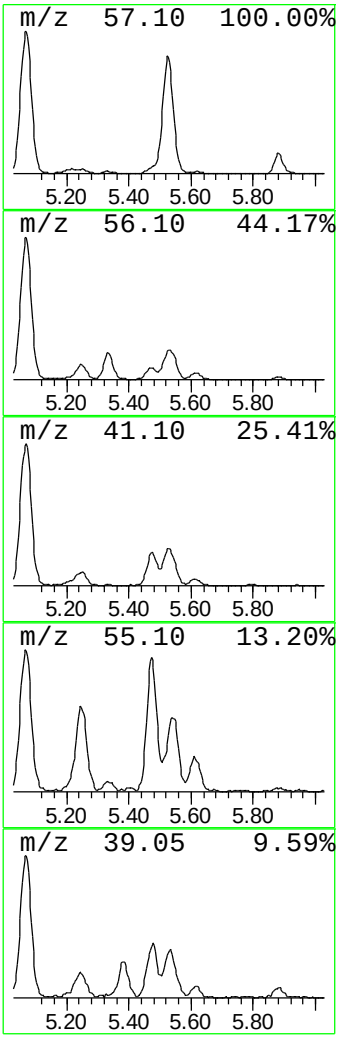
****

Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.53	3.61 ug/L	664865	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,7,7-Tetramethyloctane	170	C12H26	001071-31-4	64
2	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	53
3	Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	50
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	45
5	Heptane, 2,2-dimethyl-	128	C9H20	001071-26-7	45





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

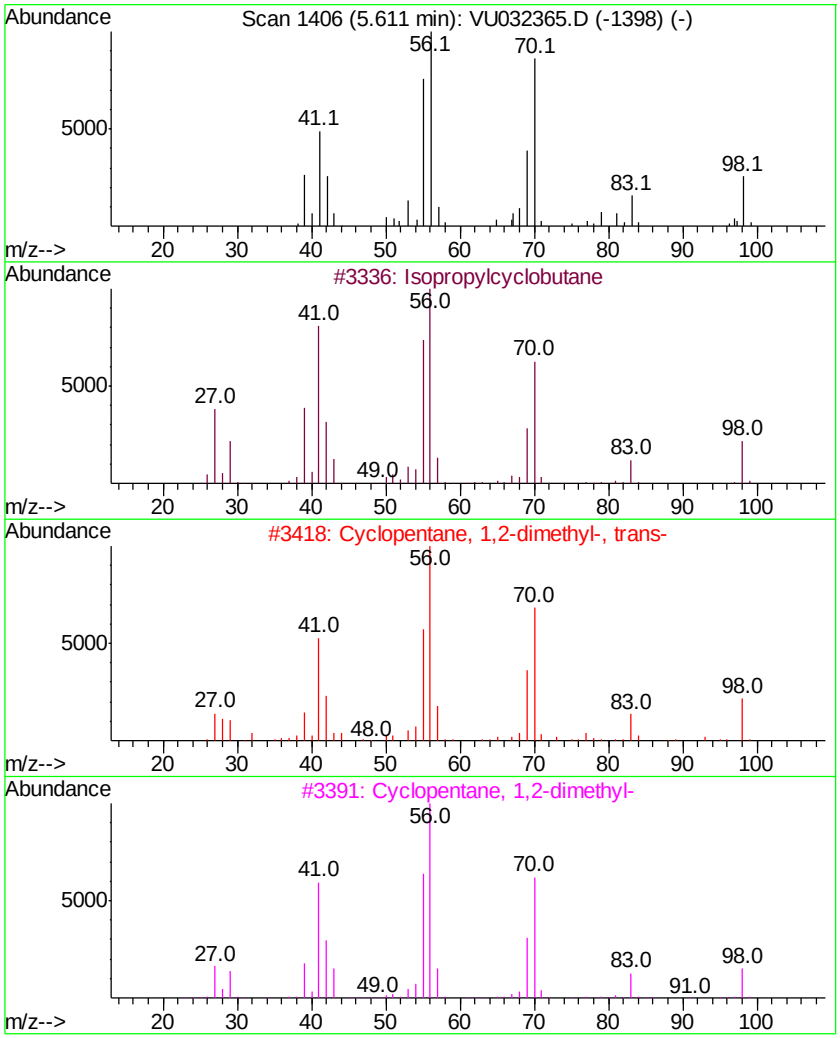
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

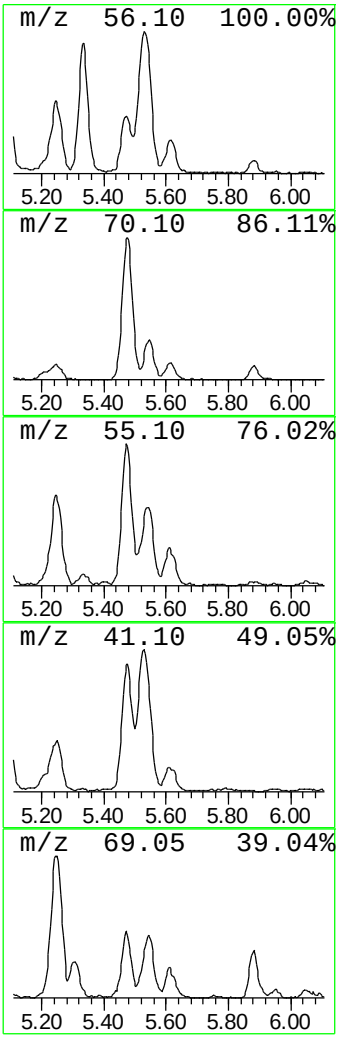
****

Peak Number 13 (DEL) Alkane: Cyclic5.61 Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.61	0.59 ug/L	108815	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isopropylcyclobutane	98	C7H14	000872-56-0	91
2	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	86
3	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	78
4	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	72
5	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	64





Library Search Compound Report

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Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

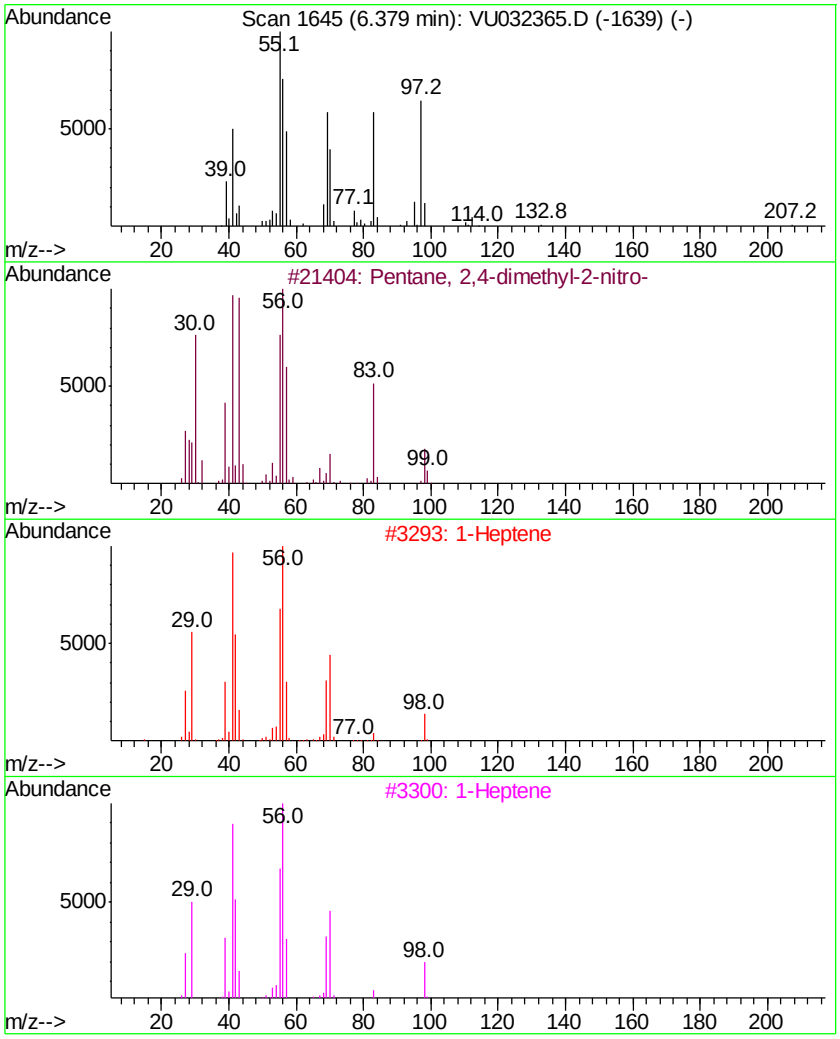
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

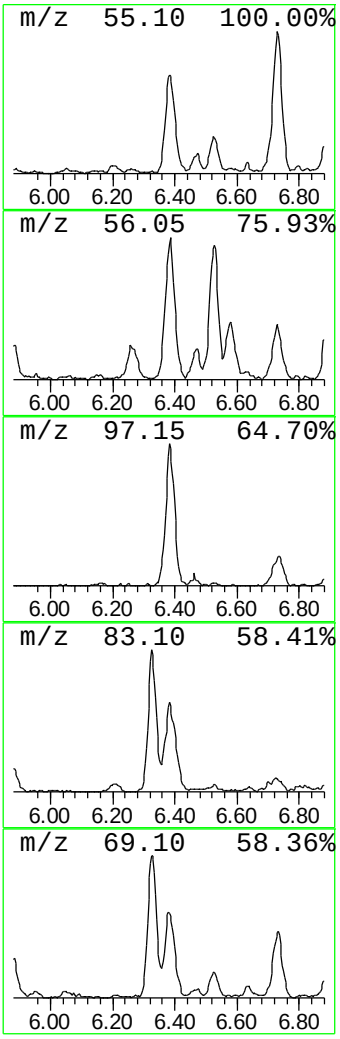
****

Peak Number 14 unknown-01 Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.38	1.40 ug/L	257511	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,4-dimethyl-2-nitro-	145	C7H15NO2	000597-45-5	47
2	1-Heptene	98	C7H14	000592-76-7	43
3	1-Heptene	98	C7H14	000592-76-7	43
4	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	35
5	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

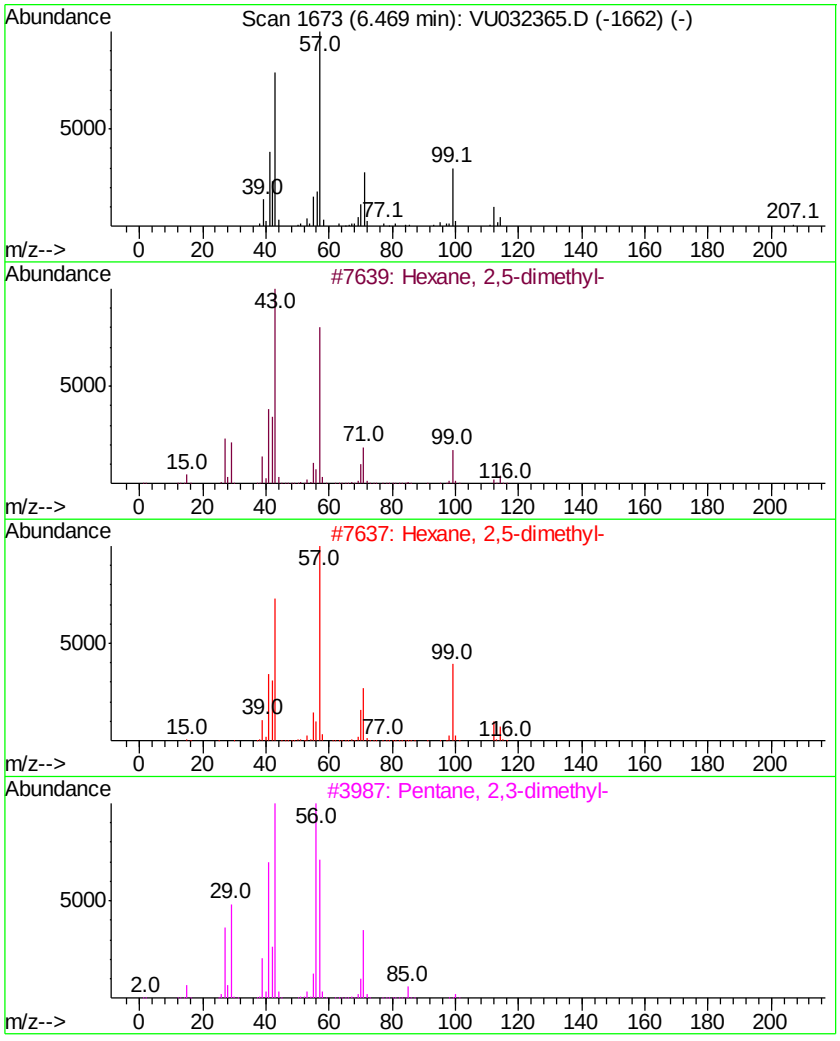
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

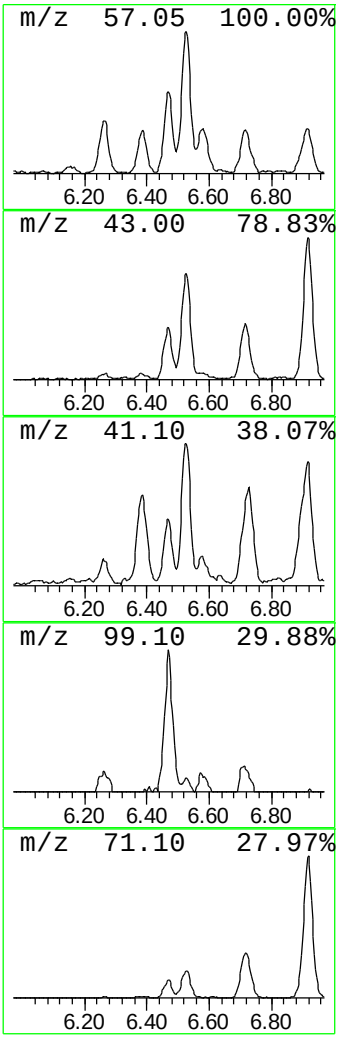
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 64

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	0.71 ug/L	130513	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	87
3	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	50
4	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	47
5	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	46





Library Search Compound Report

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Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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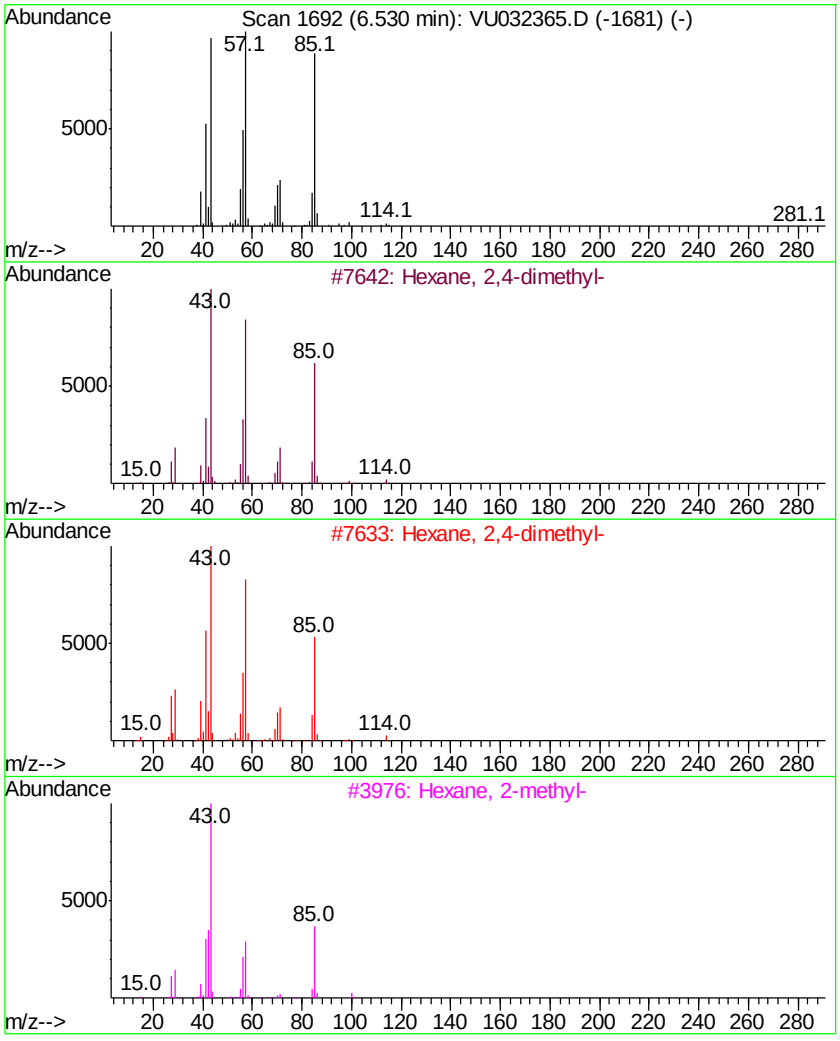
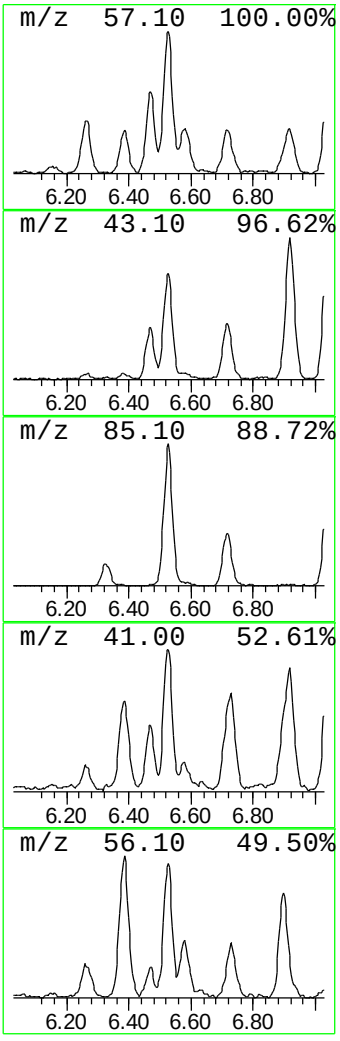
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.53	1.65 ug/L	304592	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	87
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	78
3	Hexane, 2-methyl-	100	C7H16	000591-76-4	64
4	Heptane, 3-methyl-	114	C8H18	000589-81-1	64
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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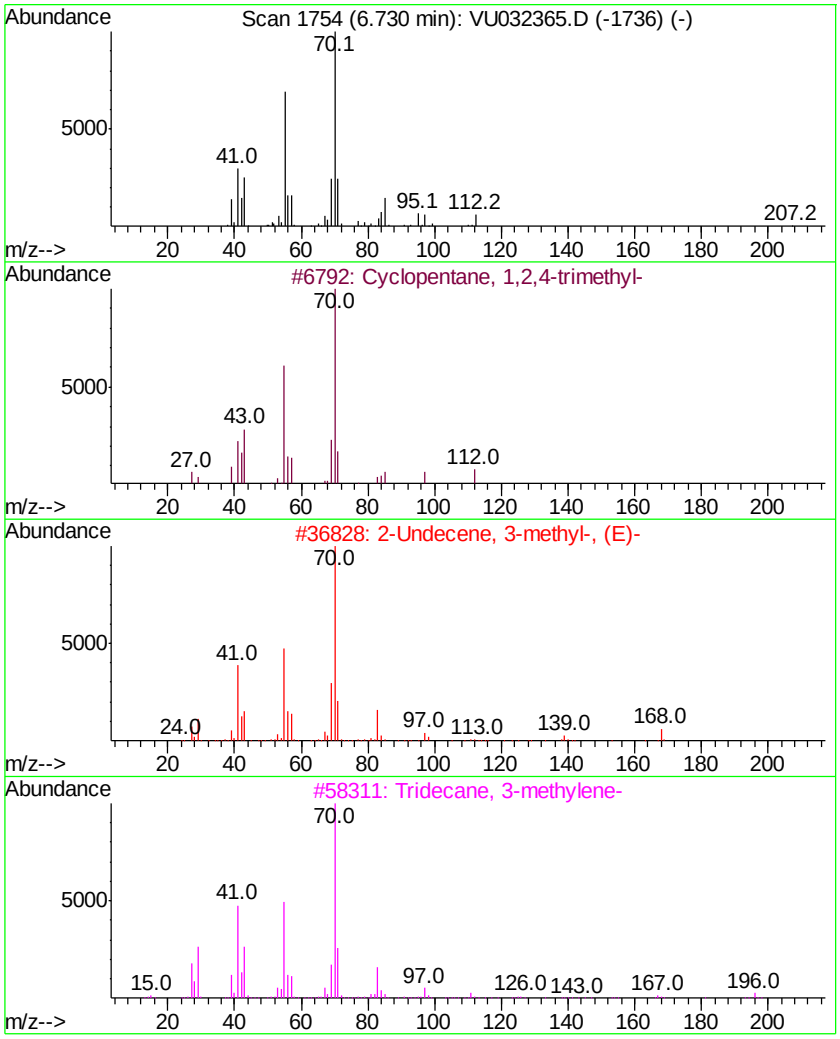
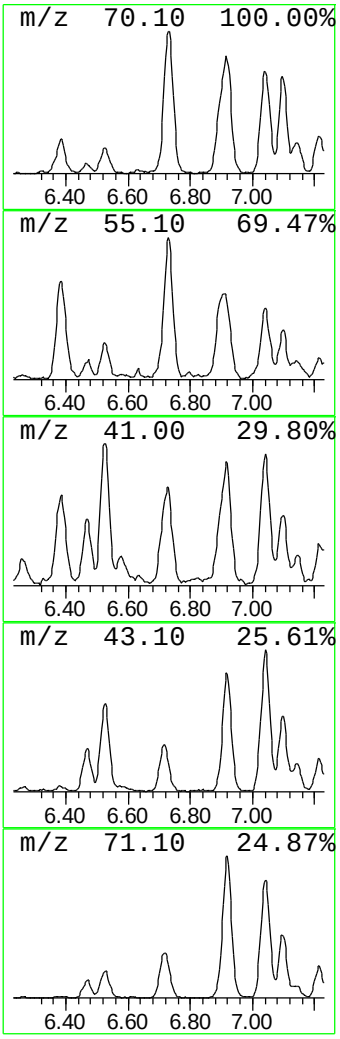
Peak Number 17 (DEL) Alkane: Cyclic6.73 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	1.94 ug/L	357828	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	74
2	2-Undecene, 3-methyl-, (E)-	168	C12H24	074630-47-0	64
3	Tridecane, 3-methylene-	196	C14H28	019780-34-8	64
4	2-Undecene, 3-methyl-, (Z)-	168	C12H24	057024-90-5	64
5	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

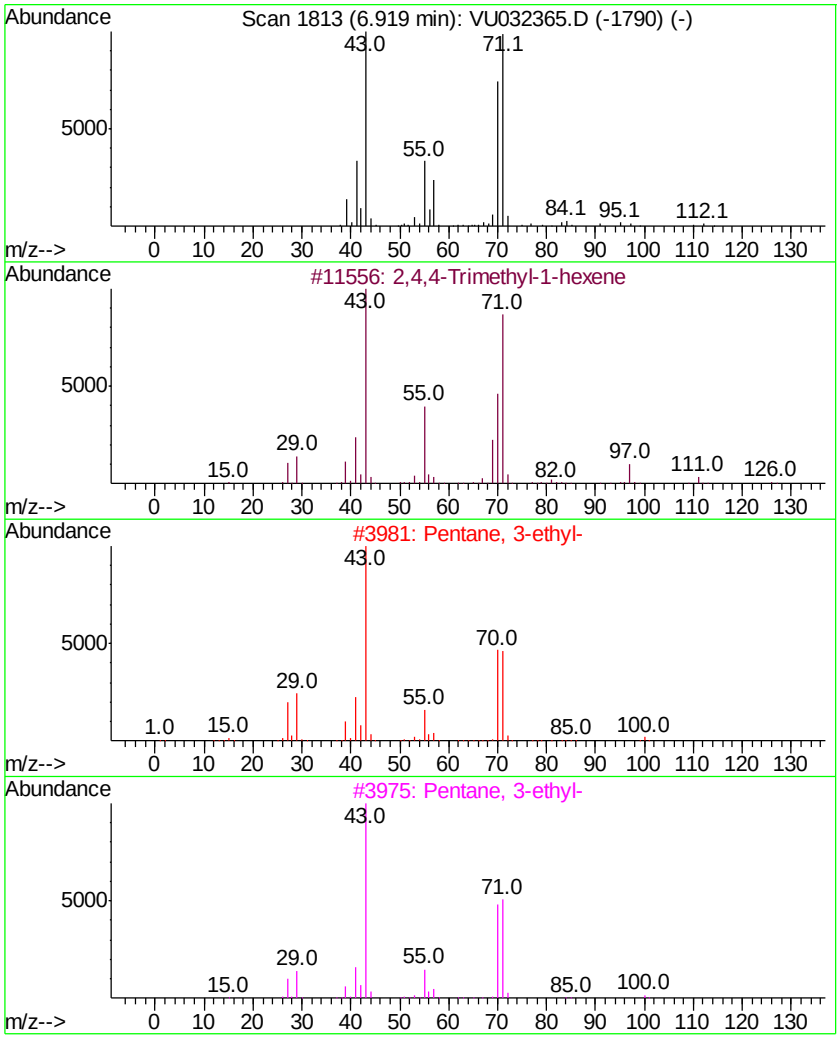
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

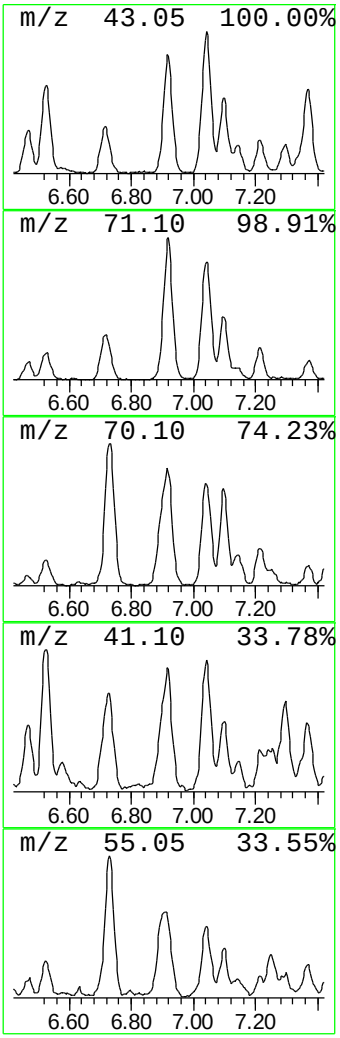
****

Peak Number 18 (DEL) Alkane: Cyclic6.92 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	2.45 ug/L	451964	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,4-Trimethyl-1-hexene	126	C9H18	051174-12-0	83
2	Pentane, 3-ethyl-	100	C7H16	000617-78-7	78
3	Pentane, 3-ethyl-	100	C7H16	000617-78-7	78
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
5	3,3-Dimethyl-2-pentanol	116	C7H16O	019781-24-9	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

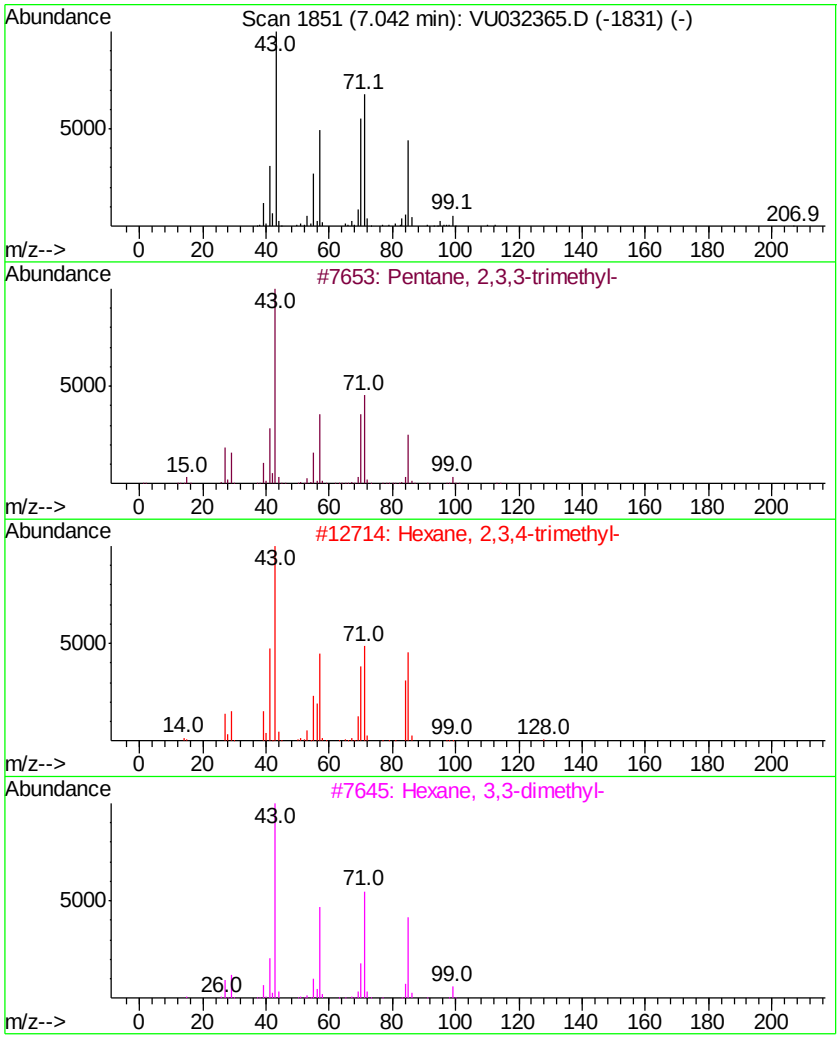
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

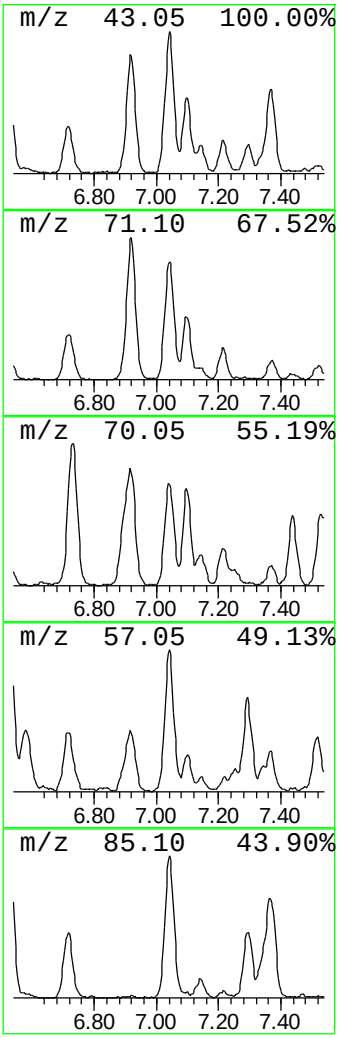
****

Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.04	2.37 ug/L	437039	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	83
2	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	78
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	64
4	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	56
5	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	56





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

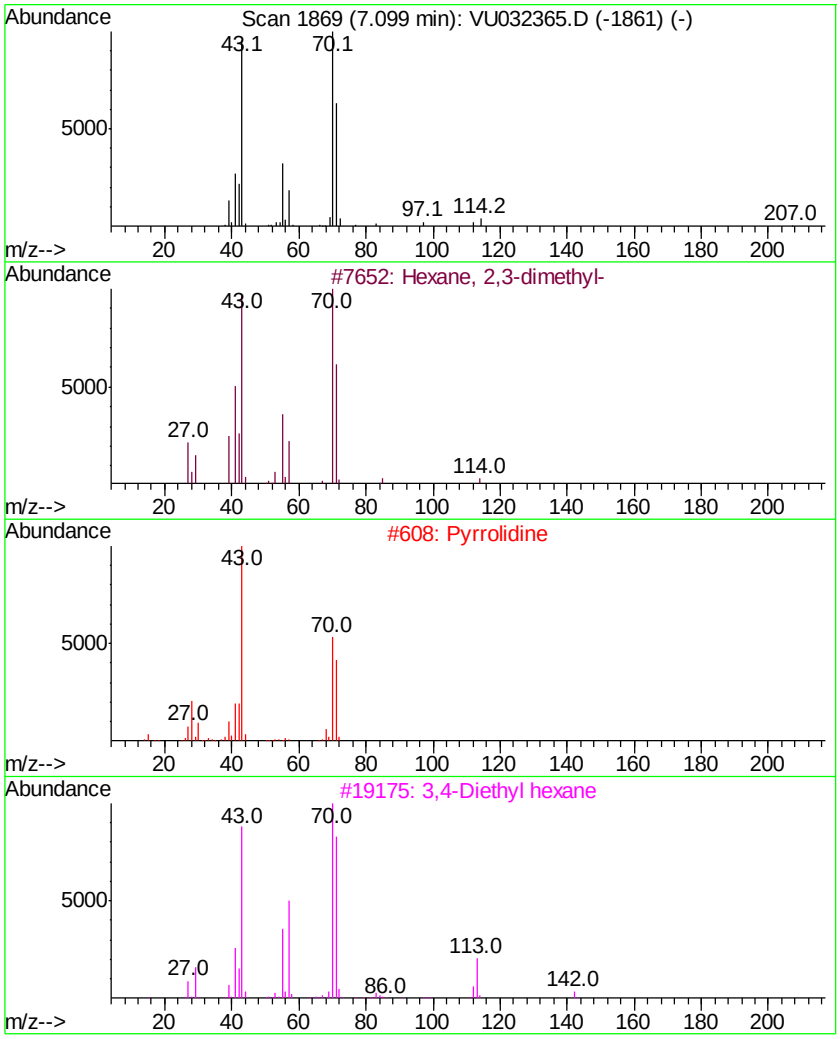
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

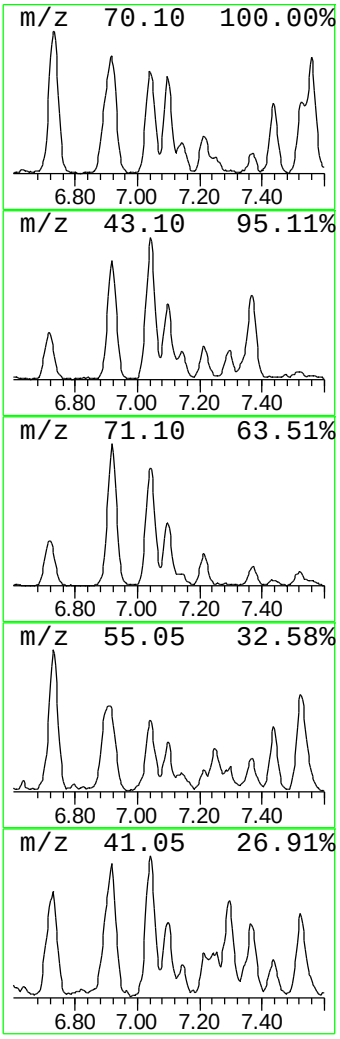
****

Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.10	0.68 ug/L	124640	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	86
2	Pyrrolidine	71	C4H9N	000123-75-1	78
3	3,4-Diethyl hexane	142	C10H22	019398-77-7	72
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64
5	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

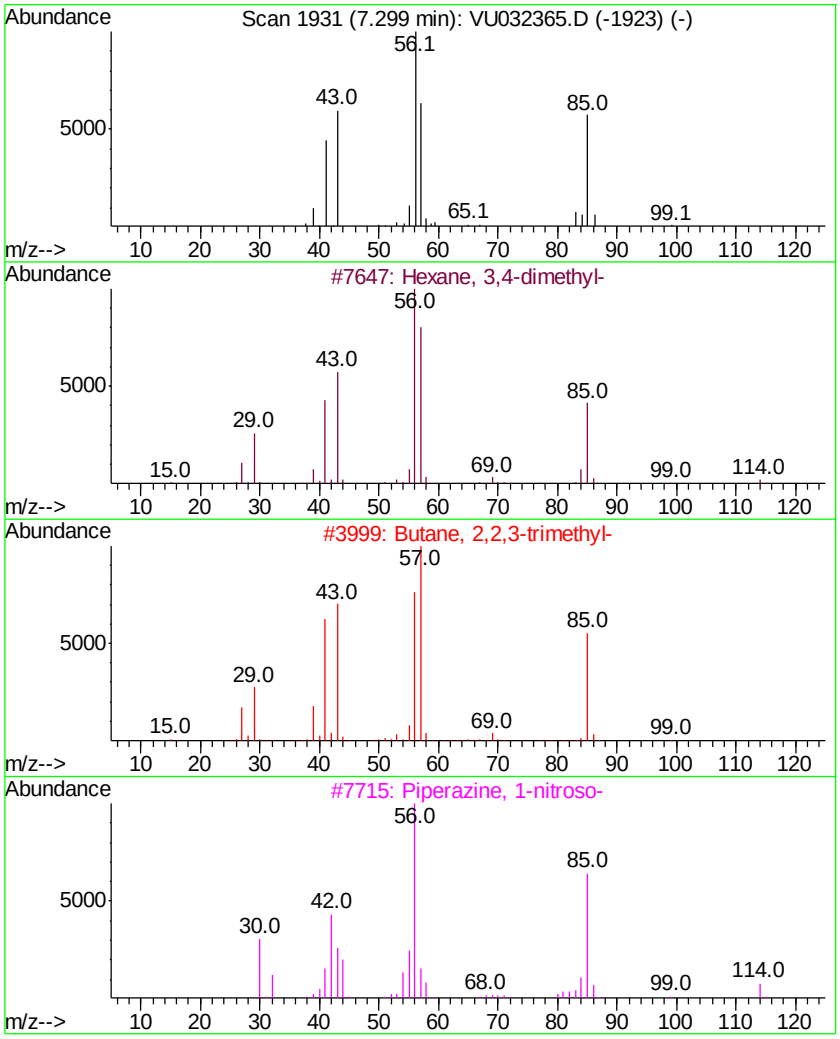
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

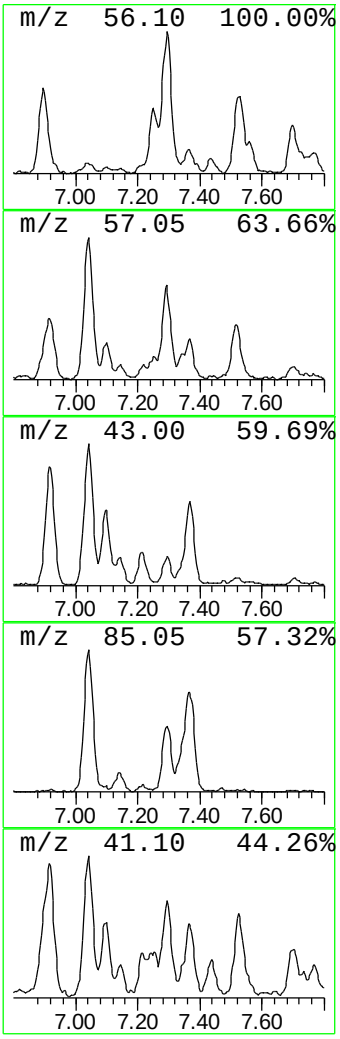
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 59

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.30	0.83 ug/L	153134	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	64
2	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	50
3	Piperazine, 1-nitroso-	115	C4H9N3O	005632-47-3	40
4	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	39
5	Isobutyl 2-methylpentyl carbonate	202	C11H22O3	1000372-75-2	33





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

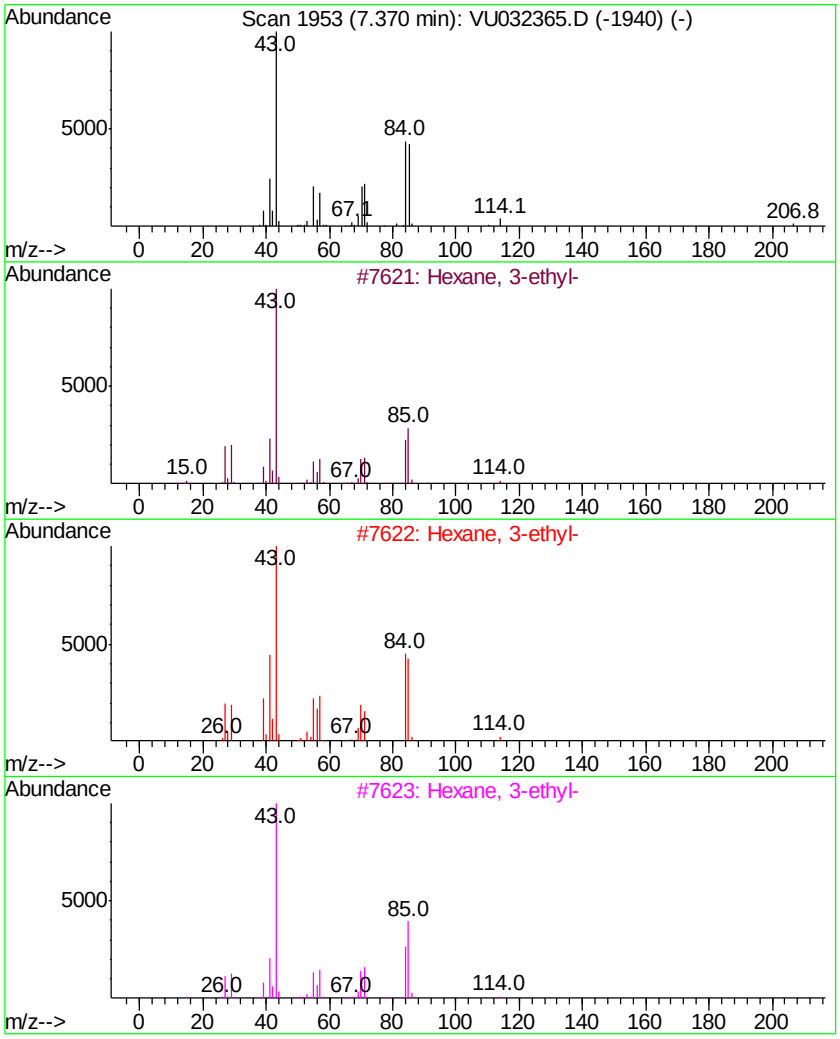
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

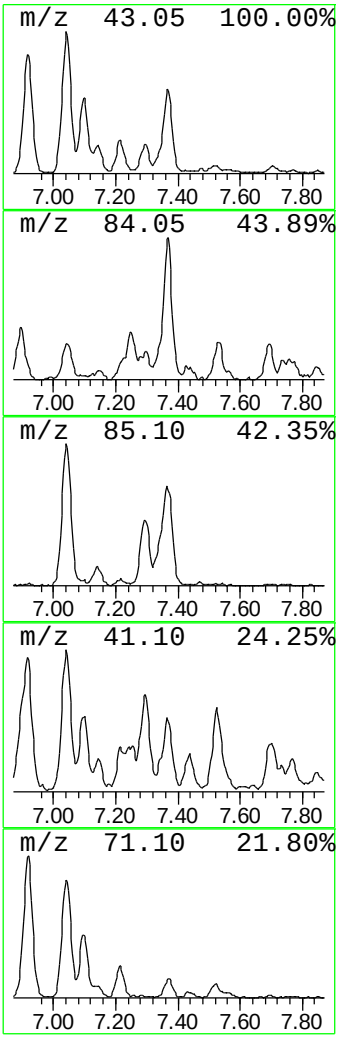
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.37	1.12 ug/L	206887	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-ethyl-	114	C8H18	000619-99-8	72
2	Hexane, 3-ethyl-	114	C8H18	000619-99-8	64
3	Hexane, 3-ethyl-	114	C8H18	000619-99-8	43
4	trans-2,3-Epoxydecane	156	C10H20O	054125-39-2	43
5	Octane, 4-methyl-	128	C9H20	002216-34-4	43





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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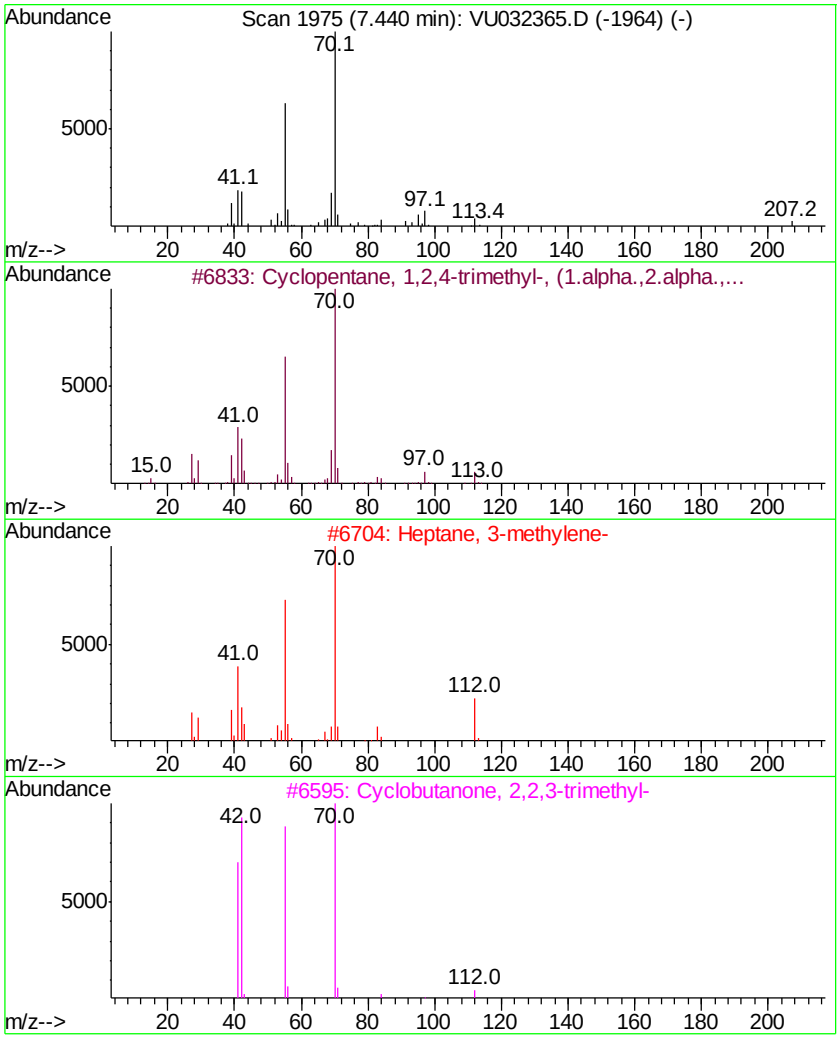
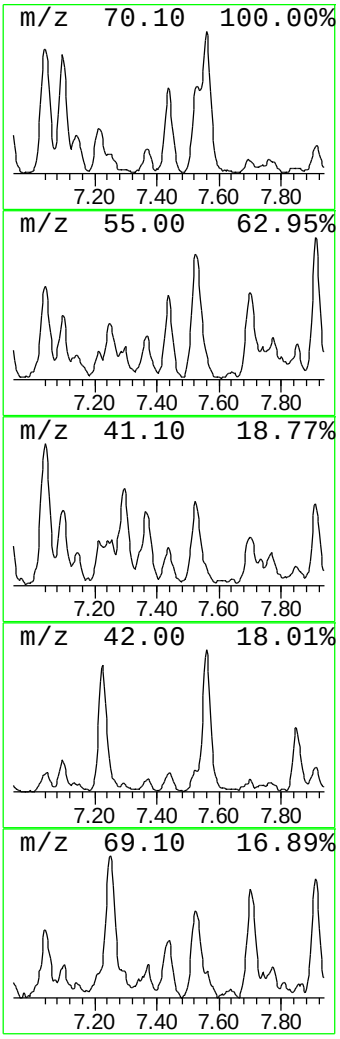
Peak Number 24 (DEL) Alkane: Cyclic7.44 Concentration Rank 73

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.44	0.54 ug/L	100167	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	91
2	Heptane, 3-methylene-	112	C8H16	001632-16-2	78
3	Cyclobutanone, 2,2,3-trimethyl-	112	C7H12O	001449-49-6	72
4	2-Heptene, 3-methyl-	112	C8H16	003404-75-9	59
5	Octane, 3-methyl-6-methylene-	140	C10H20	074630-07-2	56





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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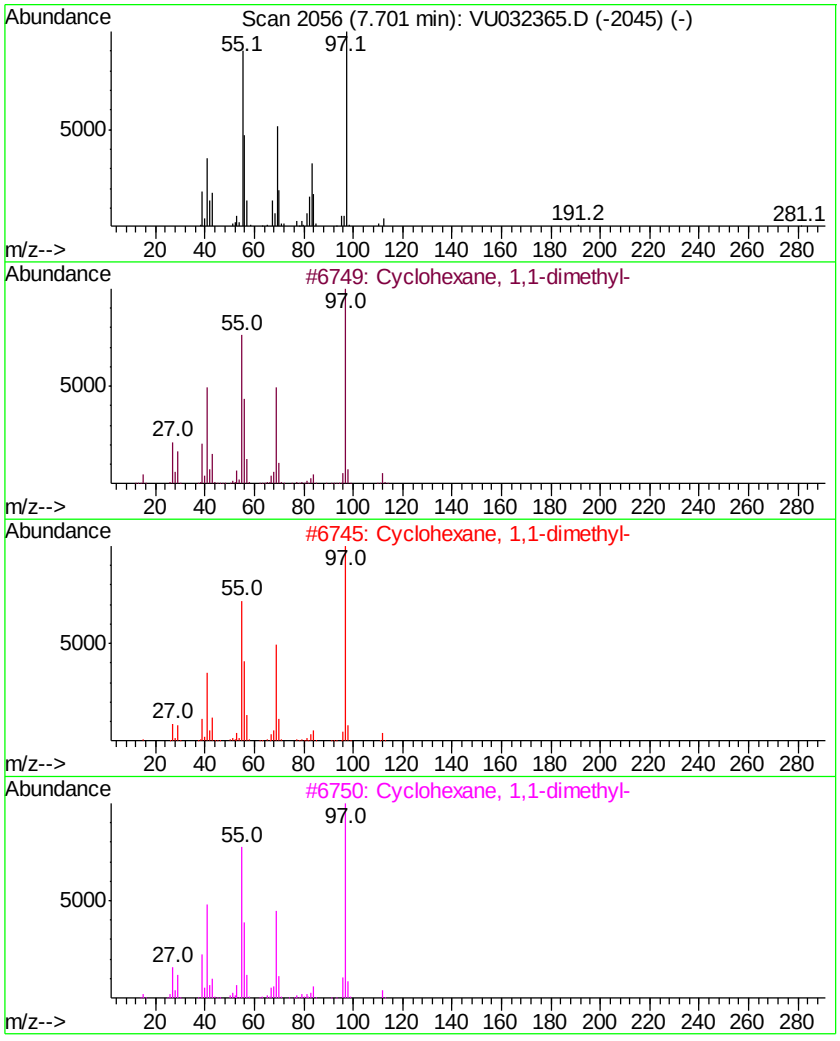
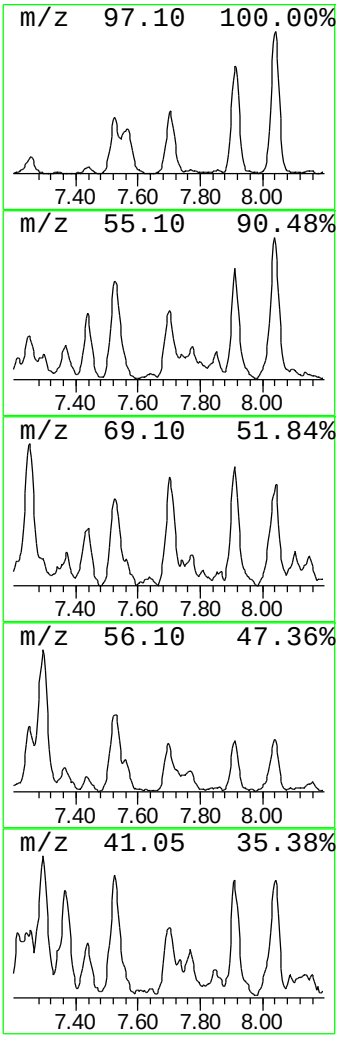
Peak Number 25 (DEL) Alkane: Cyclic7.70 Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	0.62 ug/L	136951	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	81
2	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	74
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	64
4	Sulfurous acid, cyclohexylmethyl...	234	C11H22O3S	1000309-21-3	50
5	Oxalic acid, cyclohexylmethyl is...	270	C15H26O4	1000309-68-3	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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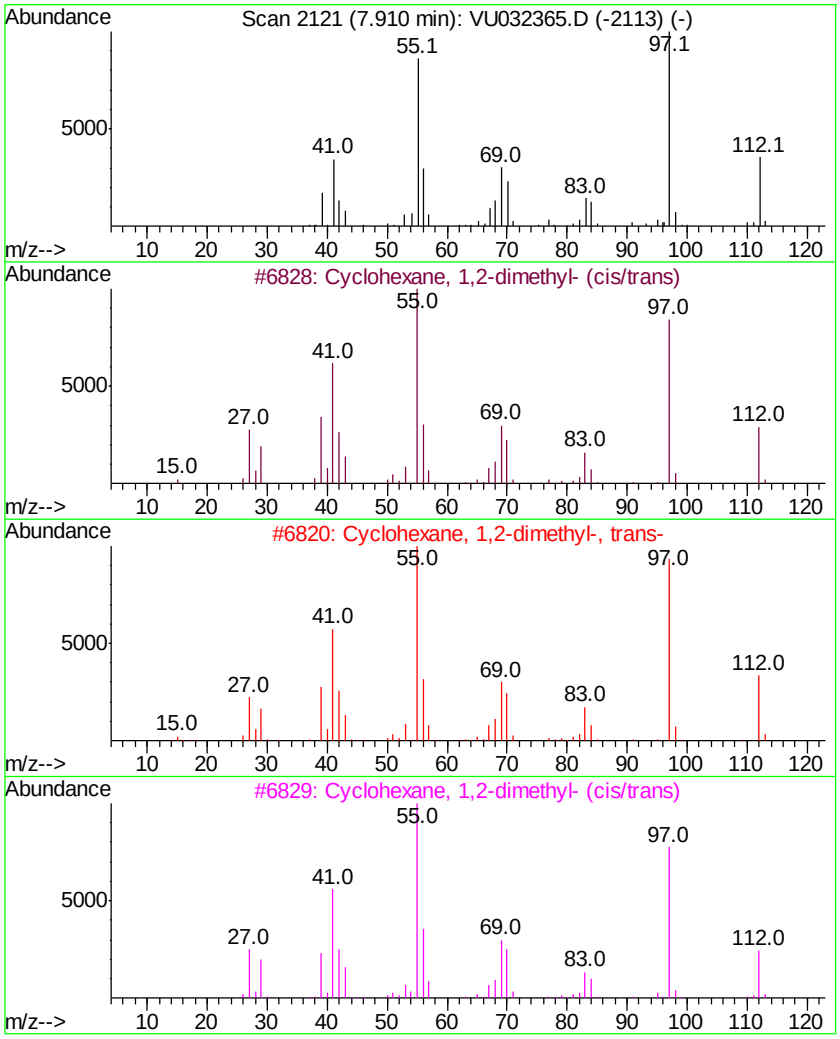
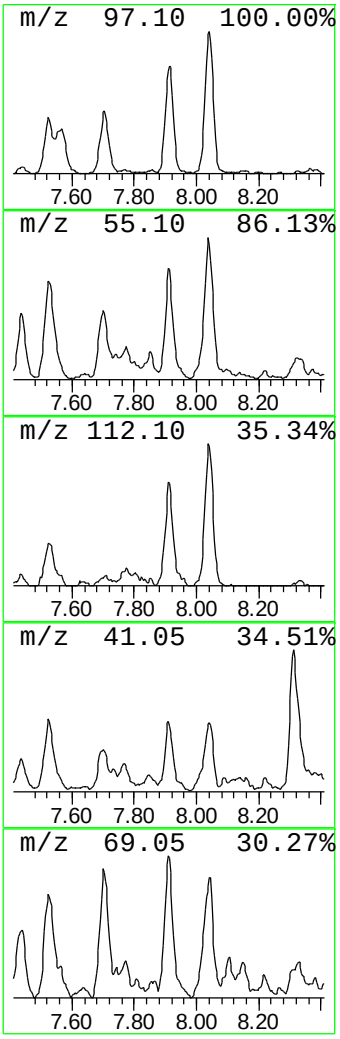
Peak Number 26 (DEL) Alkane: Cyclic7.91 Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	1.00 ug/L	220037	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	95
2	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
3	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
5	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	87





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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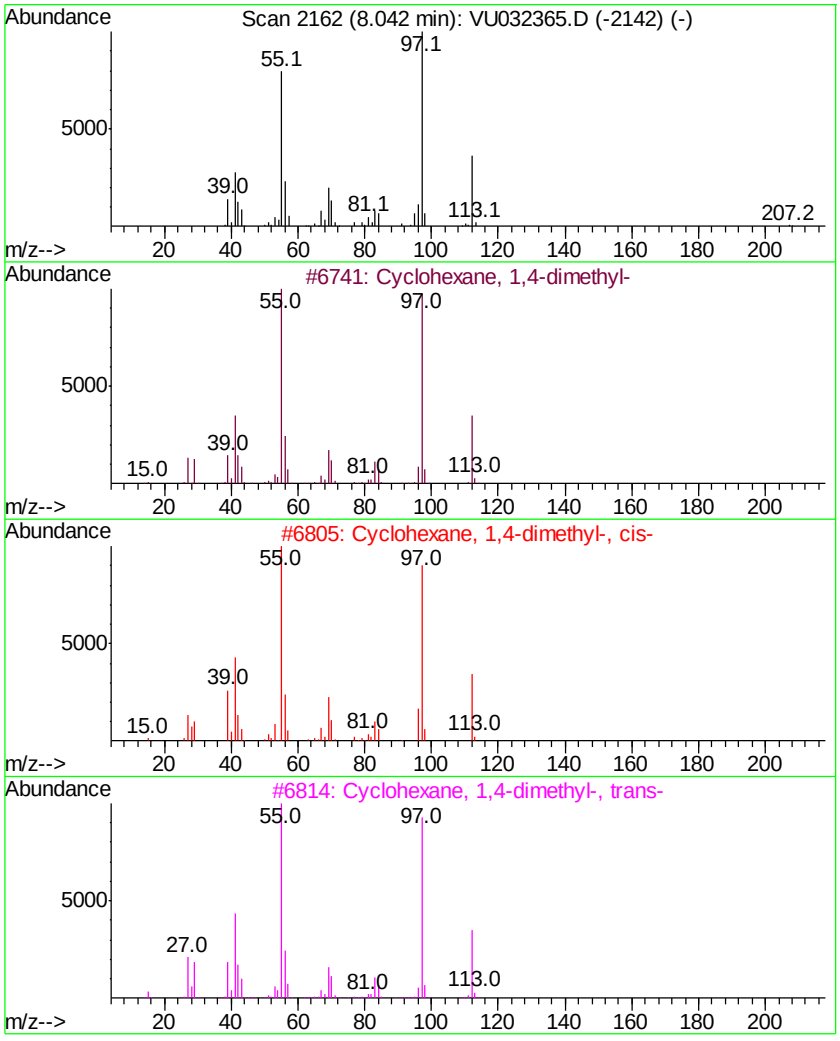
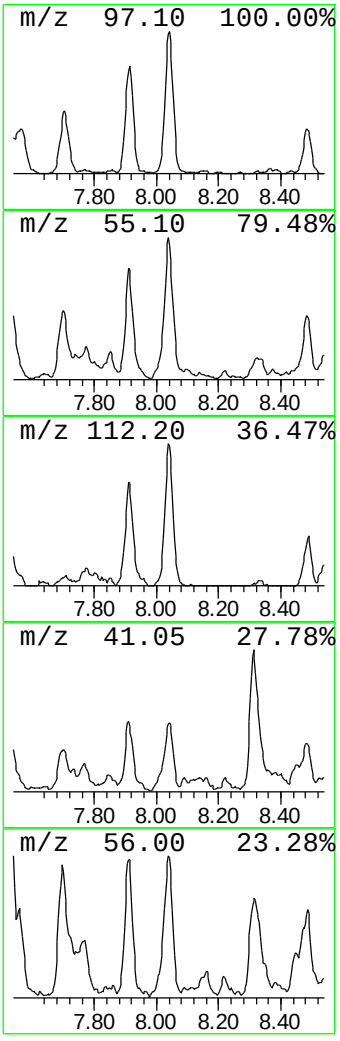
Peak Number 27 (DEL) Alkane: Cyclic8.04 Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	1.21 ug/L	266912	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	94
2	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	93
3	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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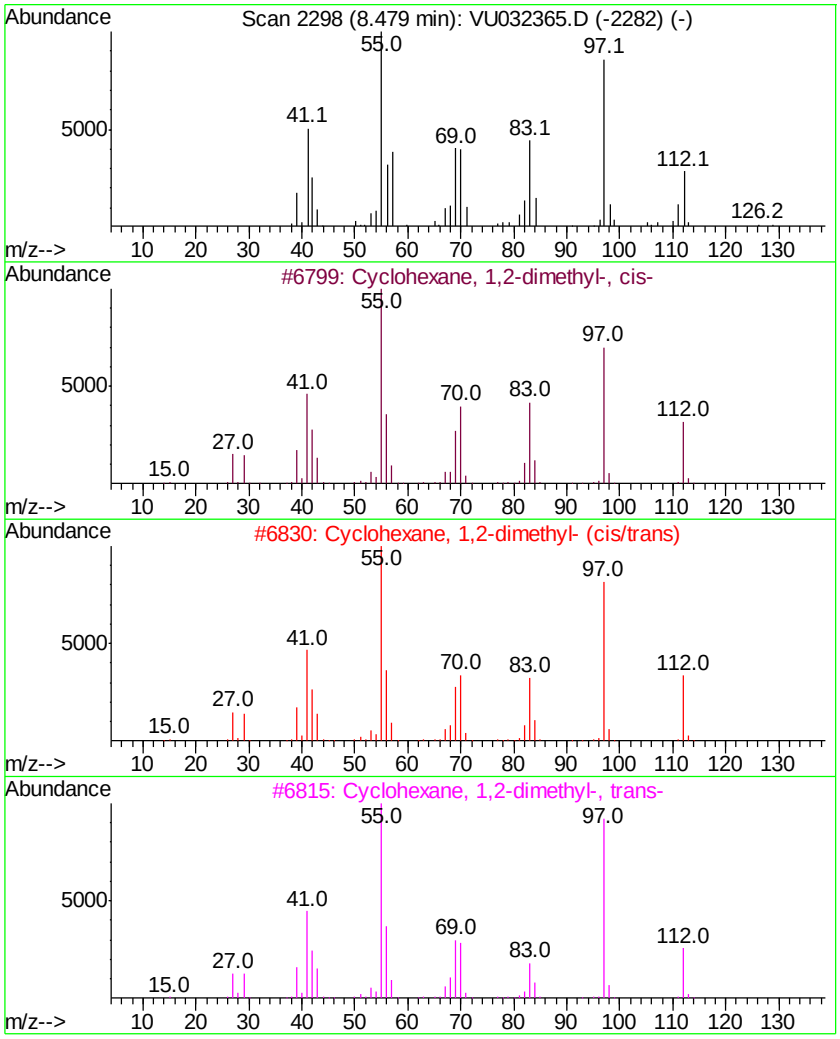
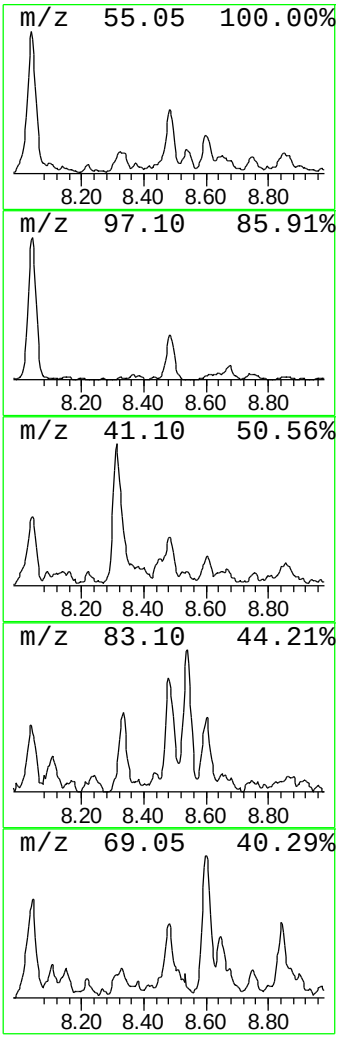
Peak Number 28 (DEL) Alkane: Cyclic8.48 Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	0.57 ug/L	126311	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	95
2	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
3	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	94
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	93





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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

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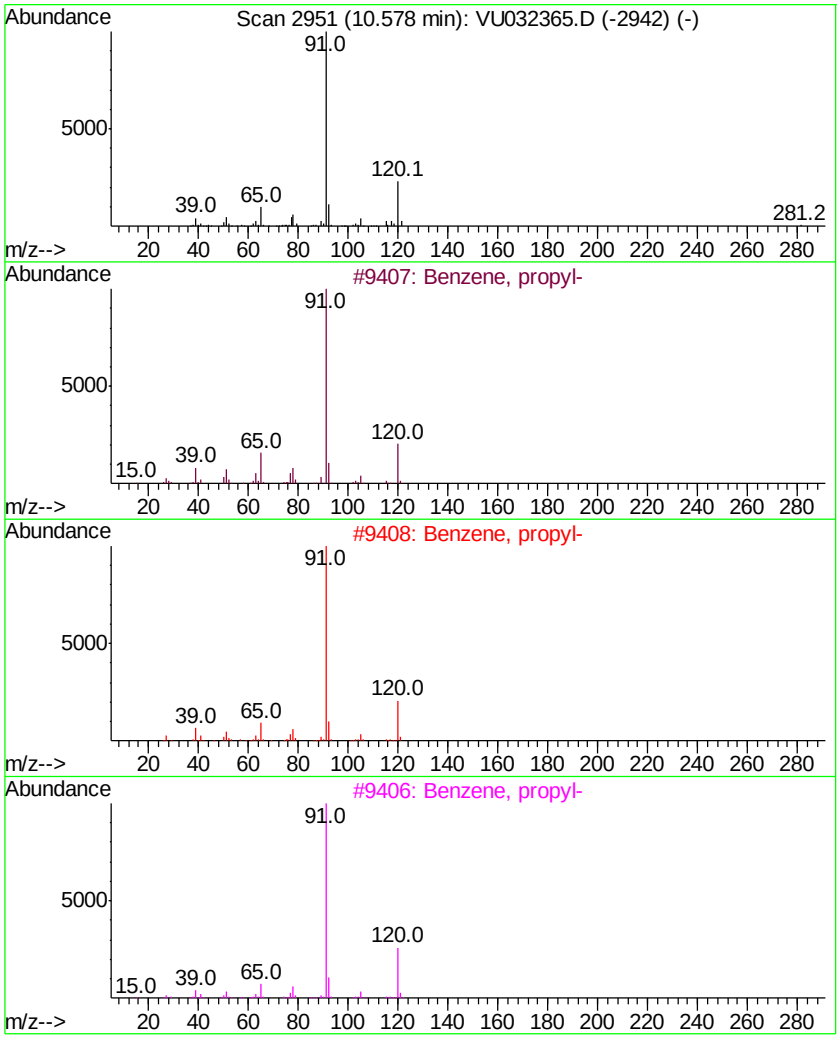
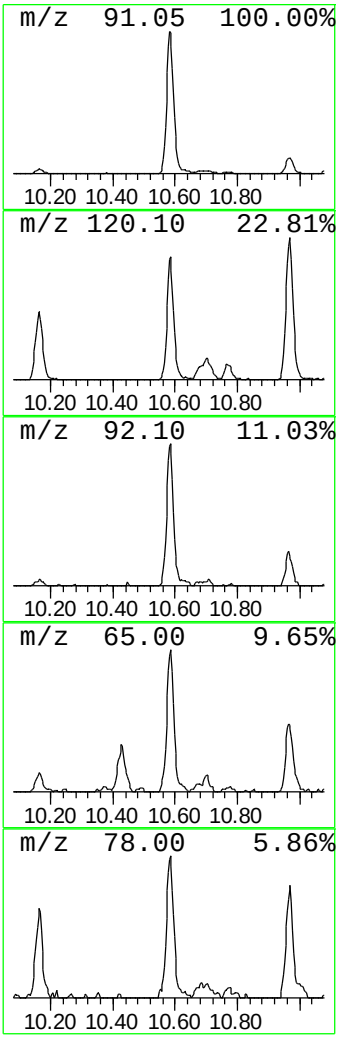
Peak Number 29 Benzene, propyl- Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	1.36 ug/L	319094	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	90
2	Benzene, propyl-	120	C9H12	000103-65-1	87
3	Benzene, propyl-	120	C9H12	000103-65-1	87
4	Phenethylamine, N-benzyl-p-chloro-	245	C15H16ClN	013622-43-0	64
5	1,2-Ethanediamine, N-(phenylmeth...	150	C9H14N2	004152-09-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

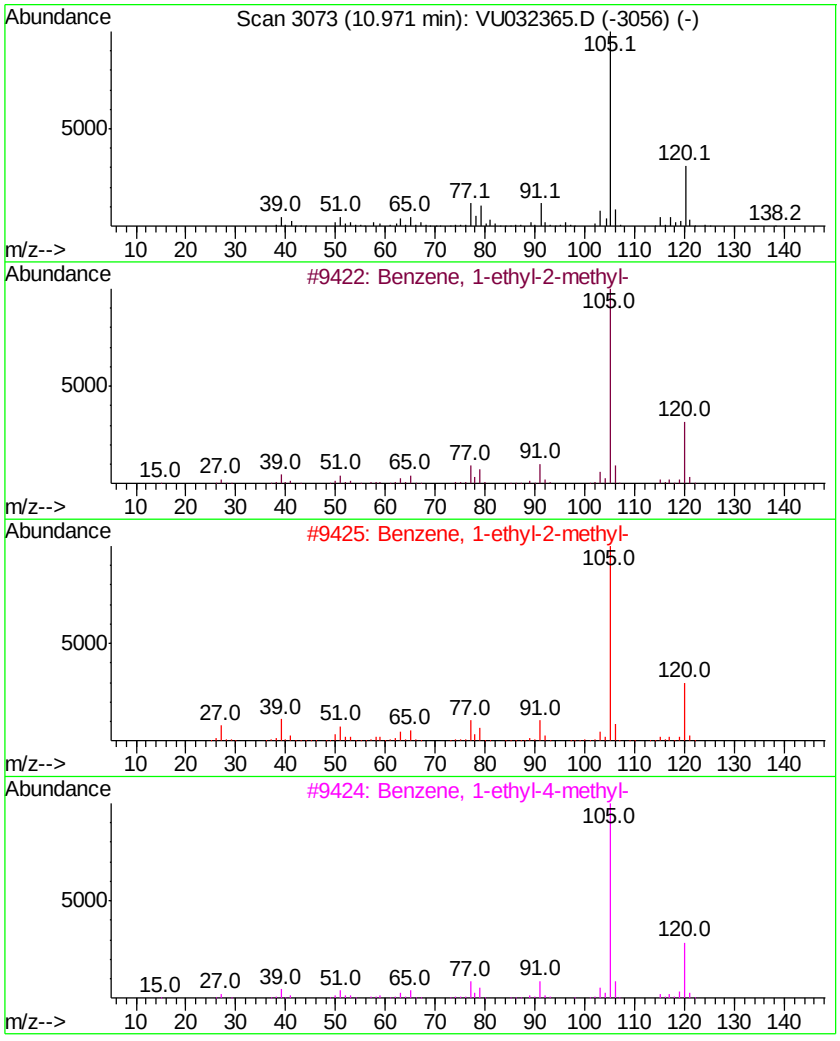
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

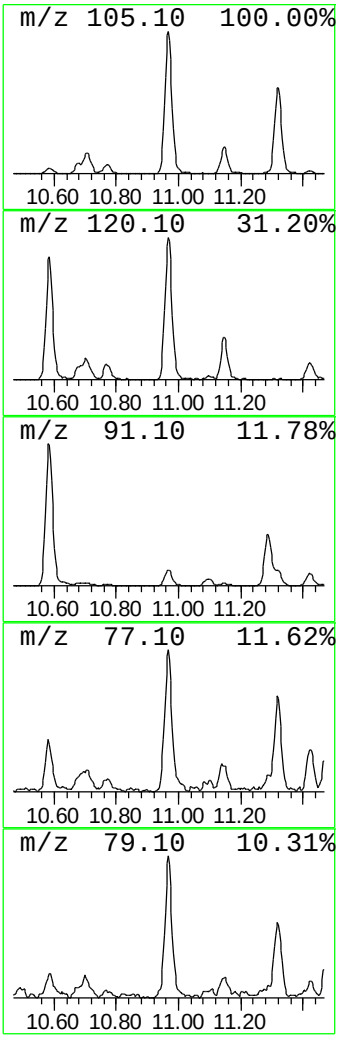
****

Peak Number 30 Benzene, 1-ethyl-2-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	1.82 ug/L	426697	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

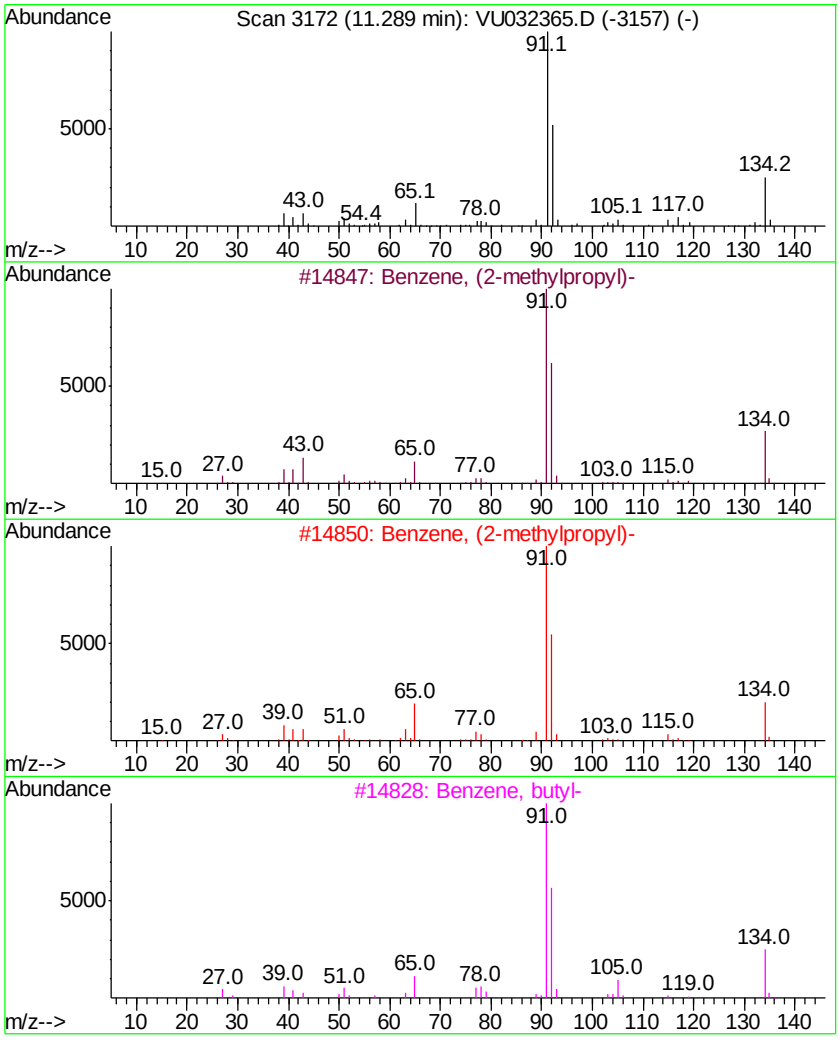
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

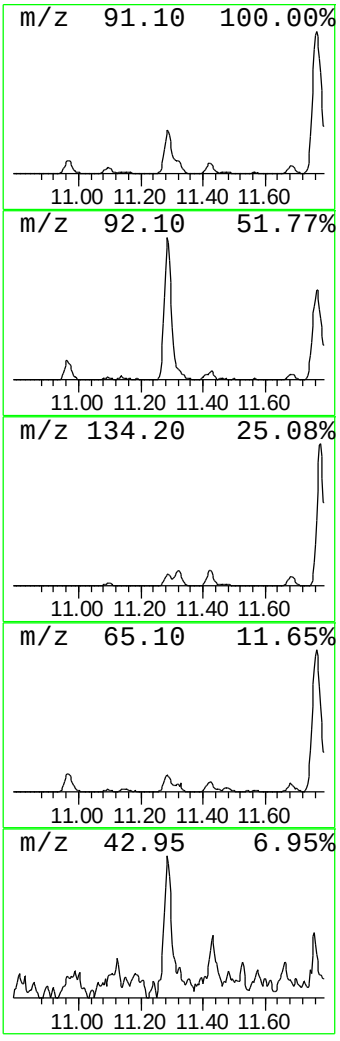
****

Peak Number 31 Benzene, (2-methylpropyl)- Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	0.68 ug/L	159917	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	90
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	86
3	Benzene, butyl-	134	C10H14	000104-51-8	86
4	Benzene, butyl-	134	C10H14	000104-51-8	86
5	Benzene, butyl-	134	C10H14	000104-51-8	86





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Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

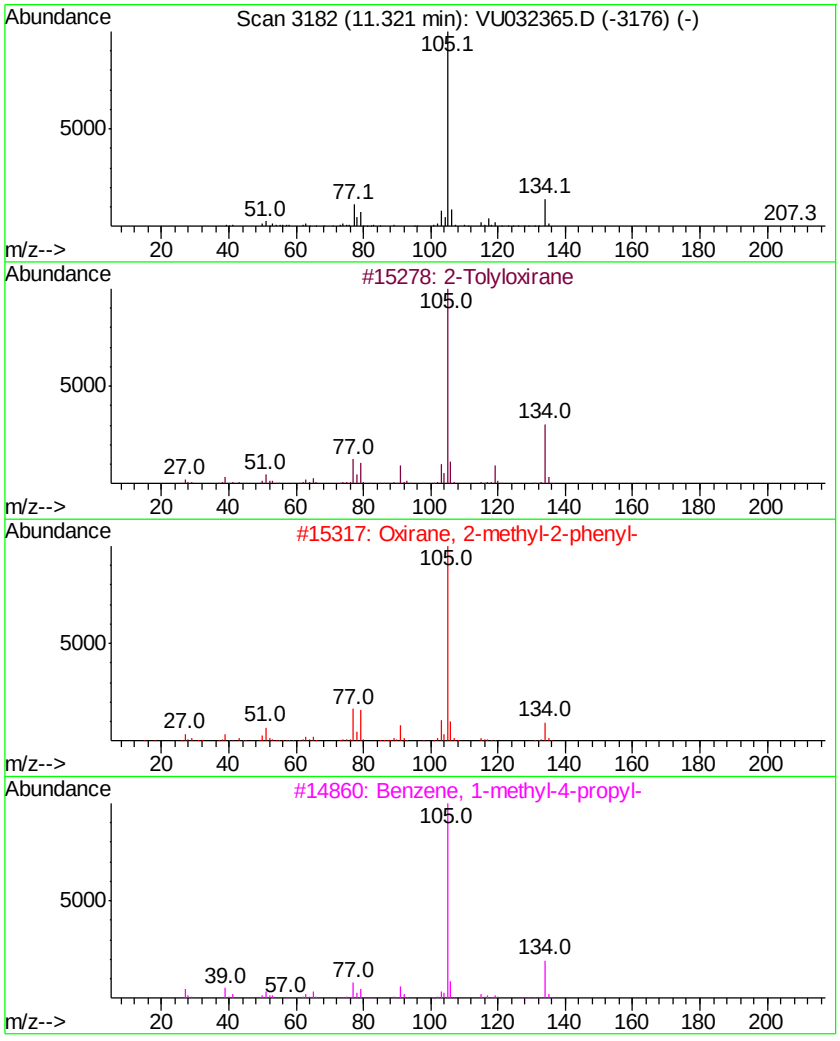
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

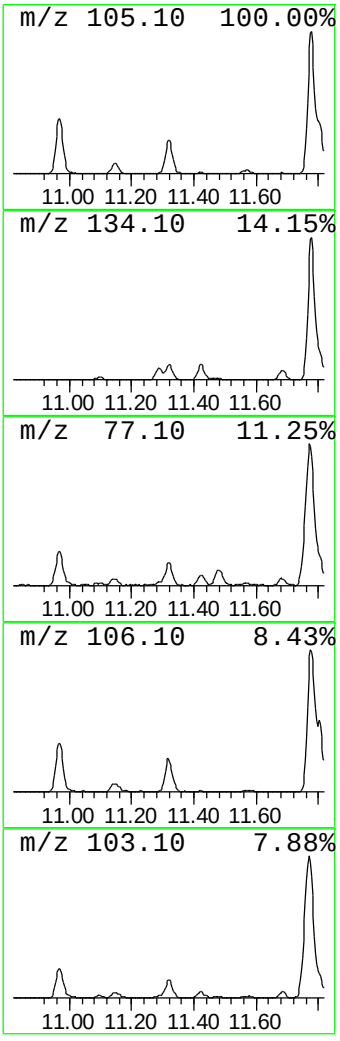
****

Peak Number 32 2-Tolyloxirane Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	0.94 ug/L	219496	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Tolyloxirane	134	C9H10O	002783-26-8	80
2	Oxirane, 2-methyl-2-phenyl-	134	C9H10O	002085-88-3	80
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	78
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	78
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

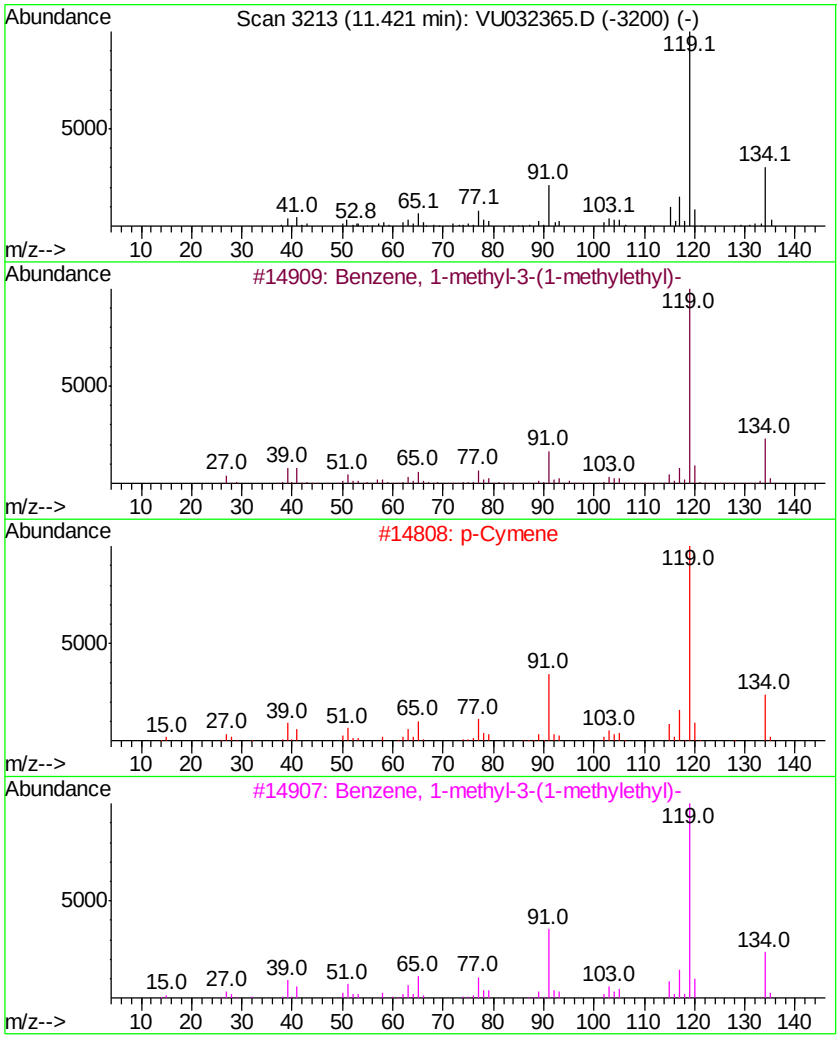
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

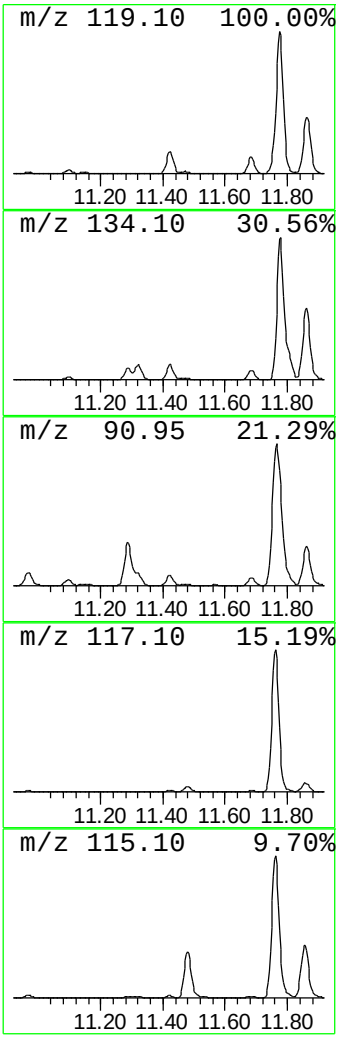
****

Peak Number 33 Benzene, 1-methyl-3-(1-meth... Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.42	0.72 ug/L	168177	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
2	p-Cymene	134	C10H14	000099-87-6	95
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
4	o-Cymene	134	C10H14	000527-84-4	94
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

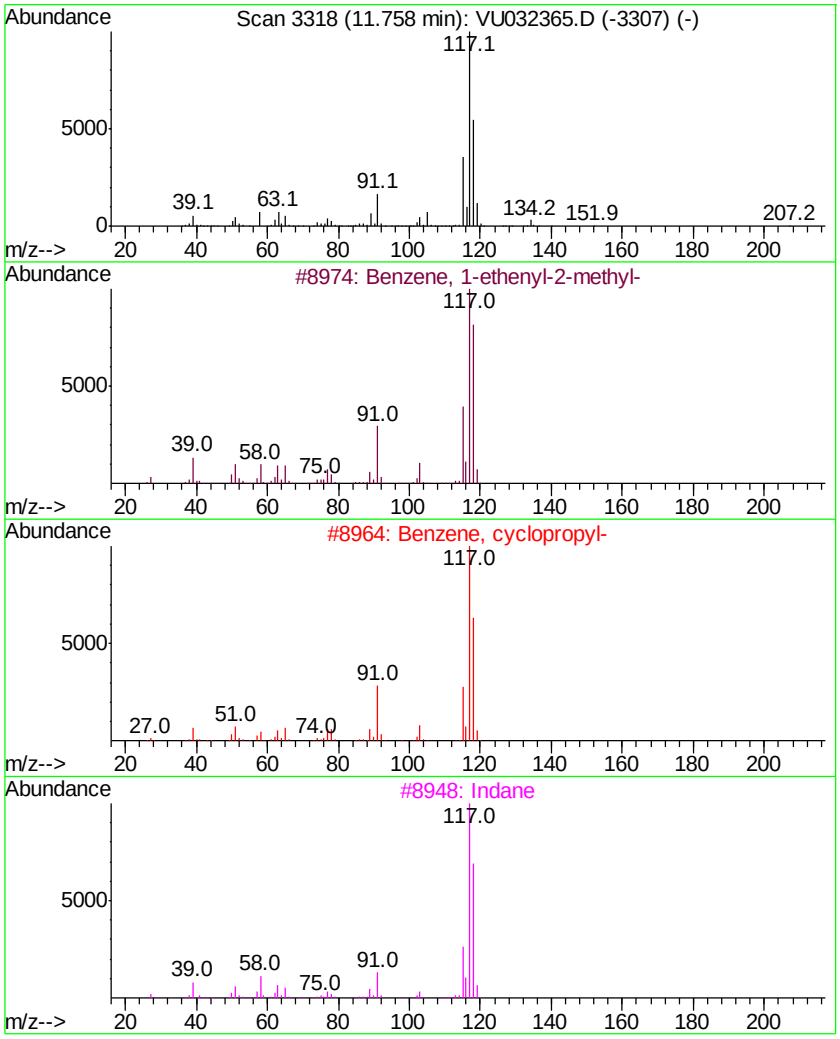
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

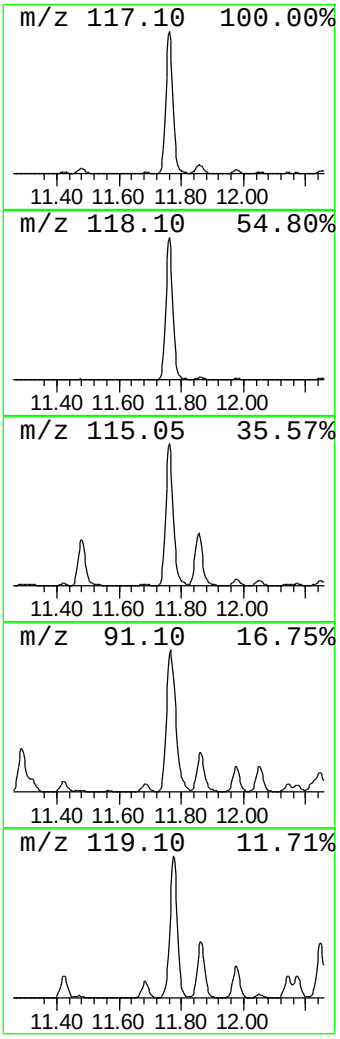
****

Peak Number 35 Benzene, 1-ethenyl-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	19.19 ug/L	4496020	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	86
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	70
3	Indane	118	C9H10	000496-11-7	70
4	Indane	118	C9H10	000496-11-7	70
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	70





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

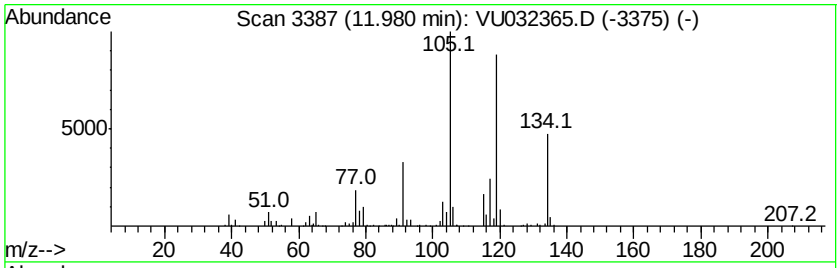
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

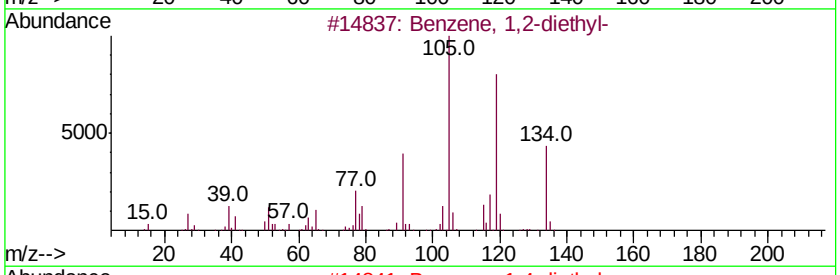
****

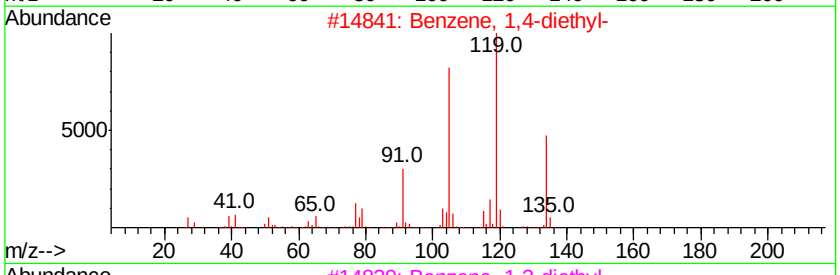
Peak Number 36 Benzene, 1,2-diethyl- Concentration Rank 31

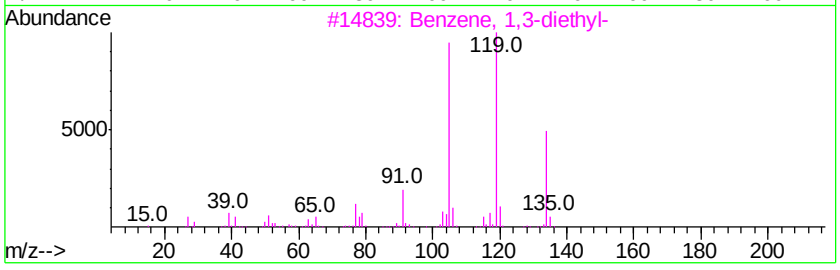
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	1.86 ug/L	434866	1,4-Dichlorobenzene-d4	11.48

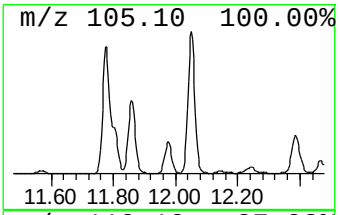
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	96
2	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	90
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90
5	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	90

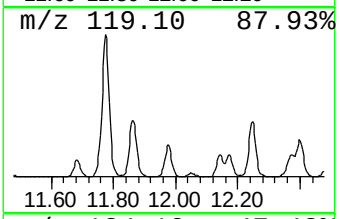


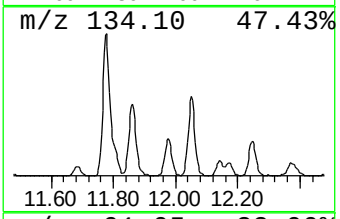


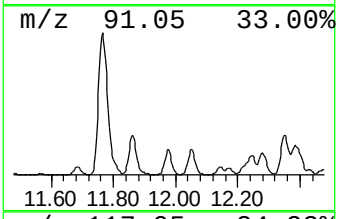


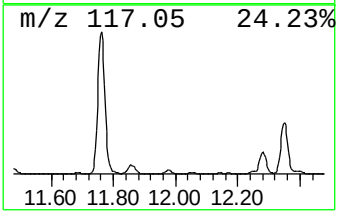












Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

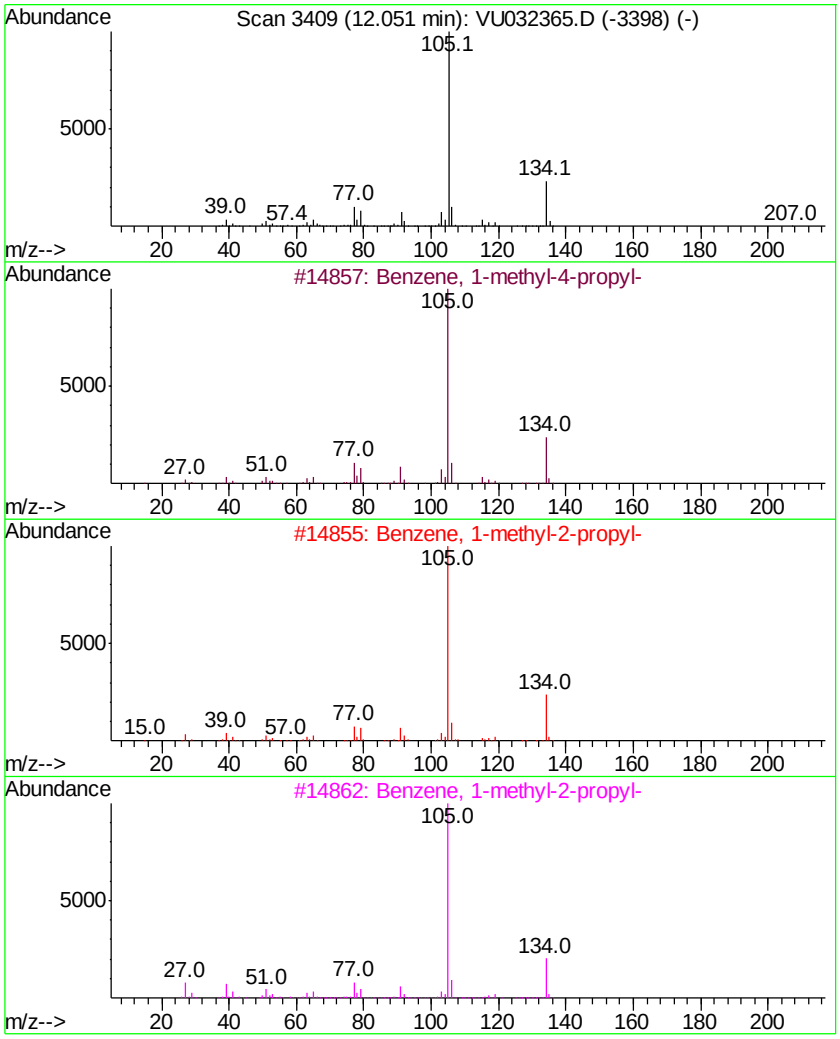
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

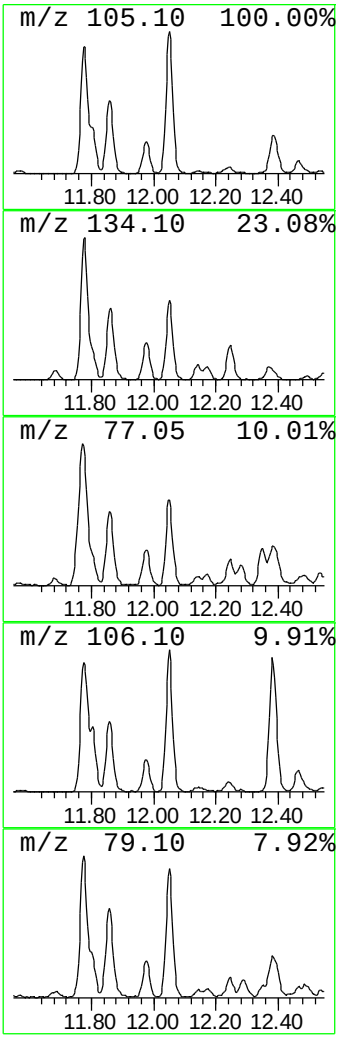
****

Peak Number 37 Benzene, 1-methyl-4-propyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	3.74 ug/L	877067	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	95
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	94
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

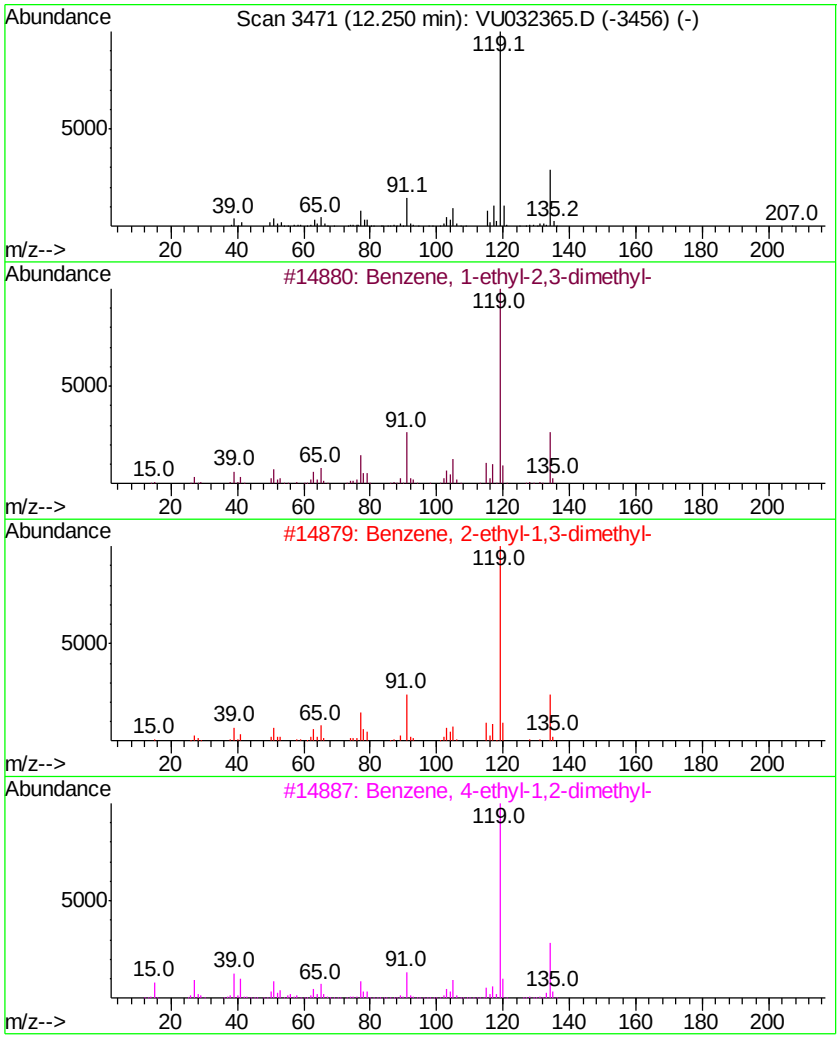
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

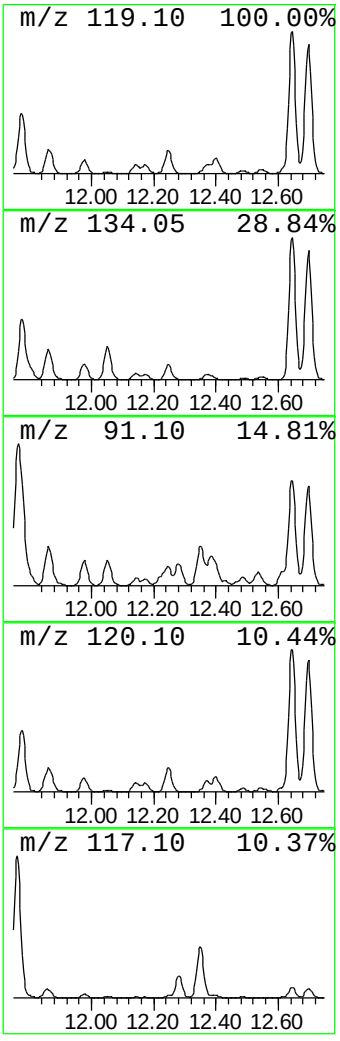
****

Peak Number 39 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	1.65 ug/L	386934	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
2	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95
3	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
4	o-Cymene	134	C10H14	000527-84-4	94
5	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

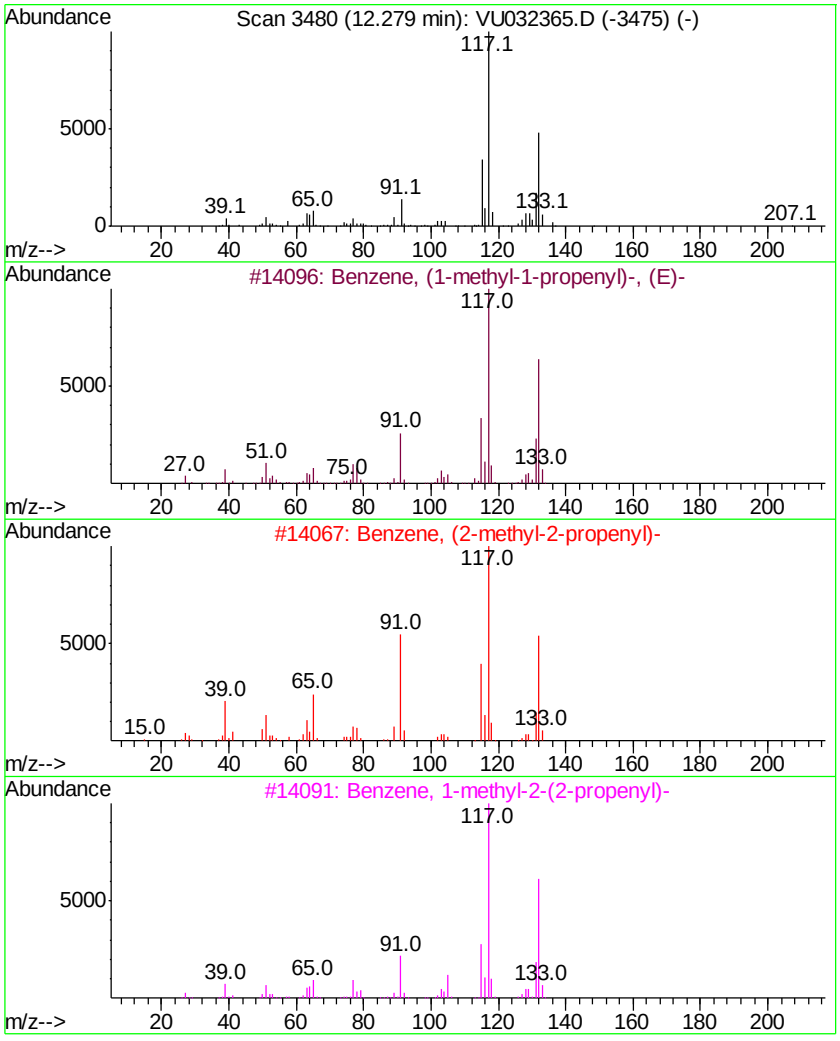
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

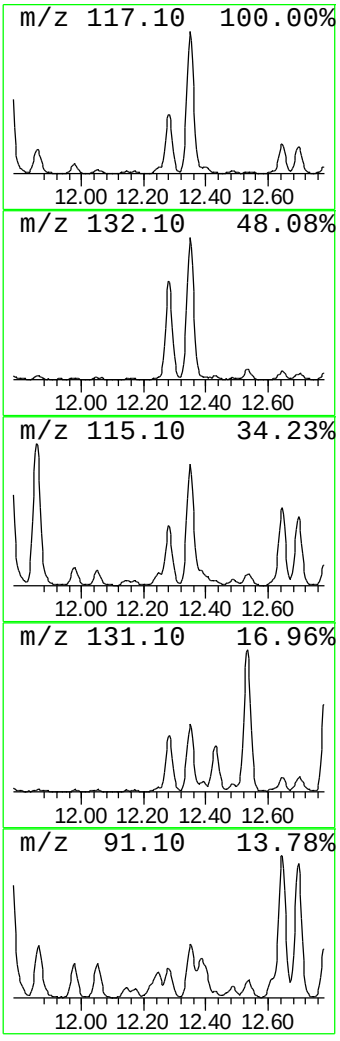
****

Peak Number 40 Benzene, (1-methyl-1-propen... Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	2.14 ug/L	501584	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	94
2	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	91
3	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	91
4	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91
5	Indan, 1-methyl-	132	C10H12	000767-58-8	86





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

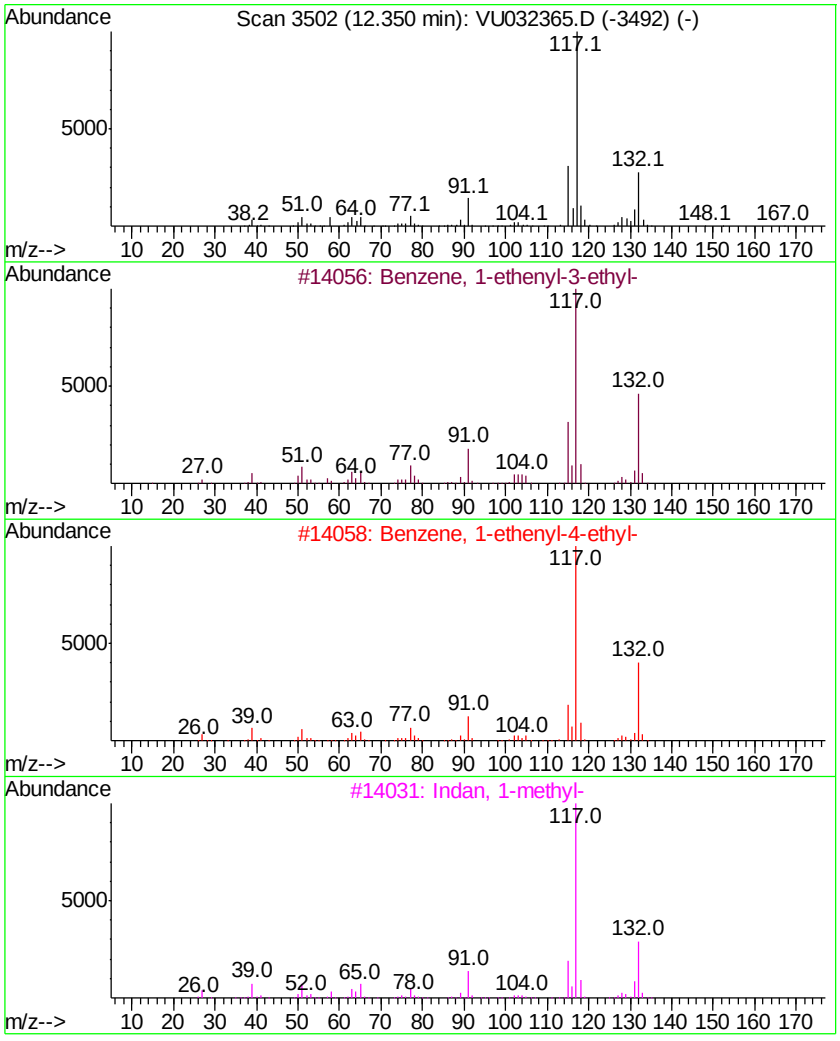
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

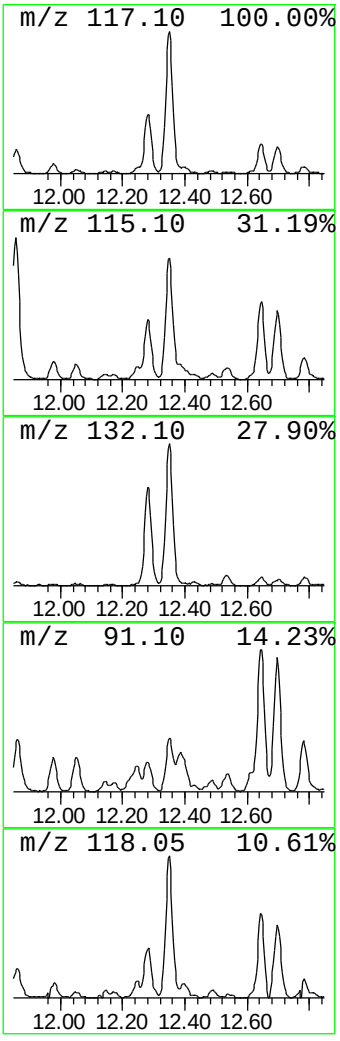
****

Peak Number 41 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	4.30 ug/L	1006730	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	86
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	83





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

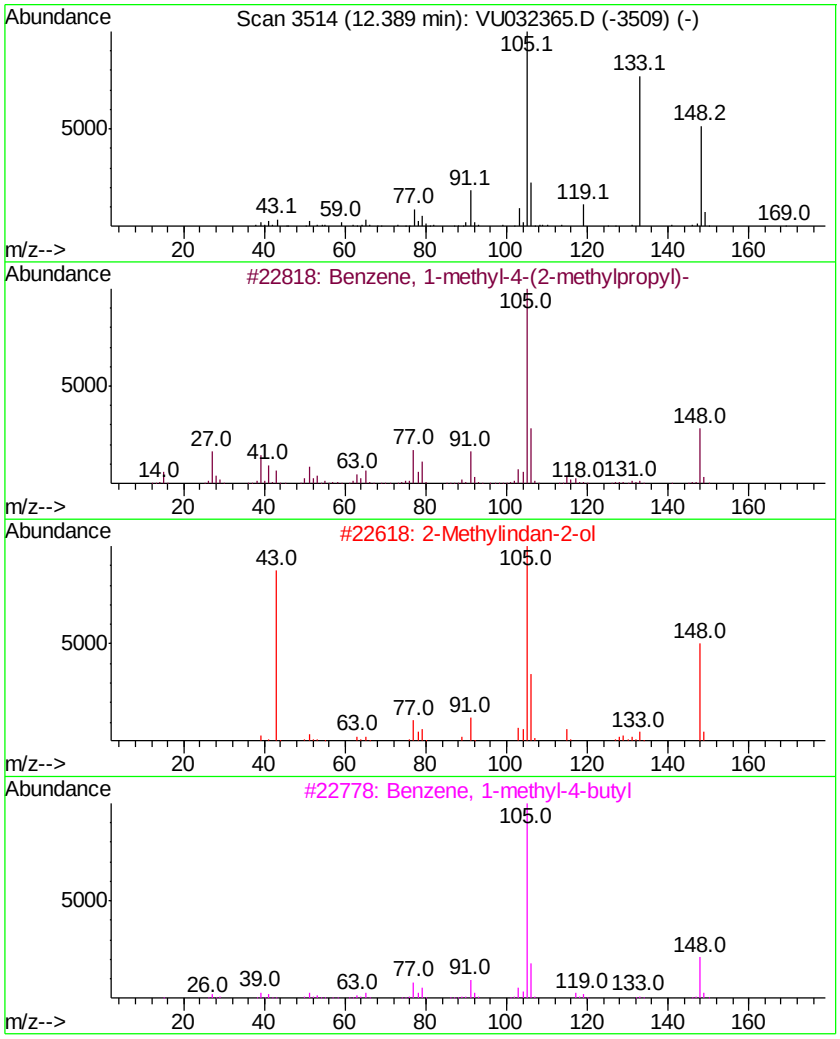
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

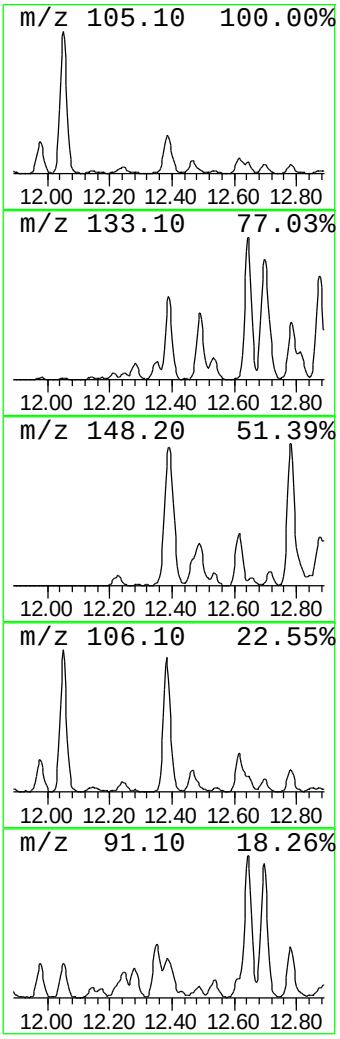
****

Peak Number 42 Benzene, 1-methyl-4-(2-meth... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	2.20 ug/L	516005	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(2-methylpro...	148	C11H16	005161-04-6	59
2	2-Methylindan-2-ol	148	C10H12O	033223-84-6	53
3	Benzene, 1-methyl-4-butyl	148	C11H16	001595-05-7	47
4	Benzene, (1-methylbutyl)-	148	C11H16	002719-52-0	47
5	3-Isopropylbenzaldehyde	148	C10H12O	034246-57-6	45





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

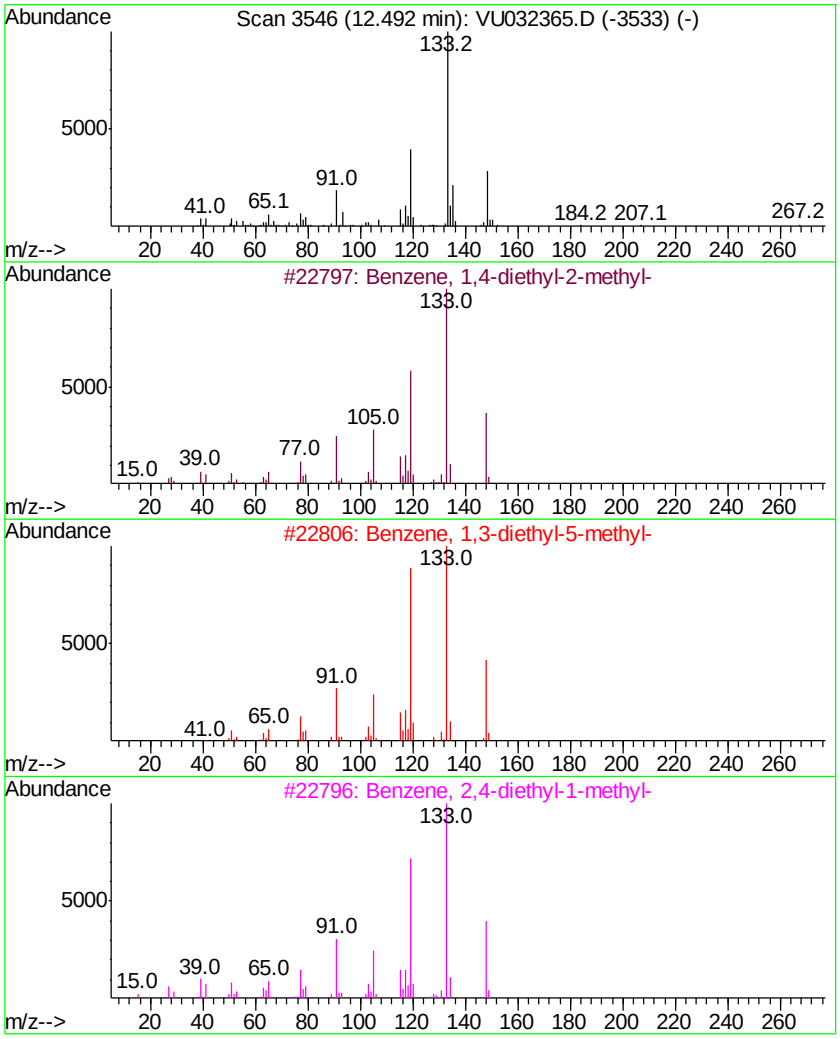
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

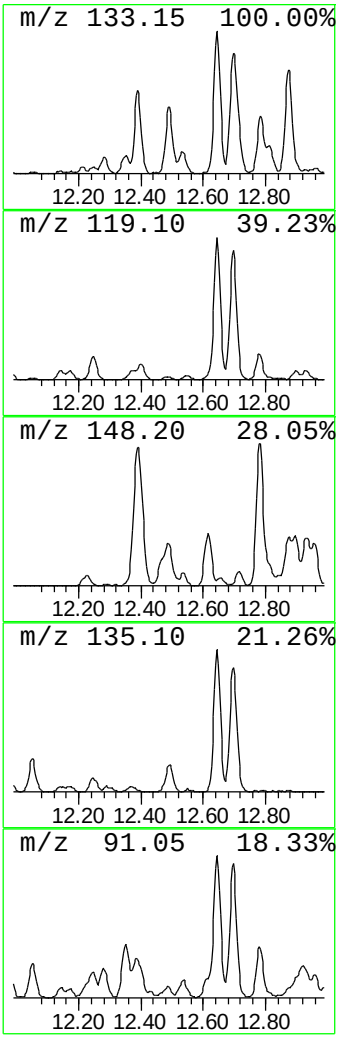
****

Peak Number 43 Benzene, 1,4-diethyl-2-methyl- Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	0.74 ug/L	173531	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-diethyl-2-methyl-	148	C11H16	013632-94-5	90
2	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	62
3	Benzene, 2,4-diethyl-1-methyl-	148	C11H16	001758-85-6	58
4	Benzene, 1,3-dimethyl-5-(1-methy...	148	C11H16	004706-90-5	58
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	58





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

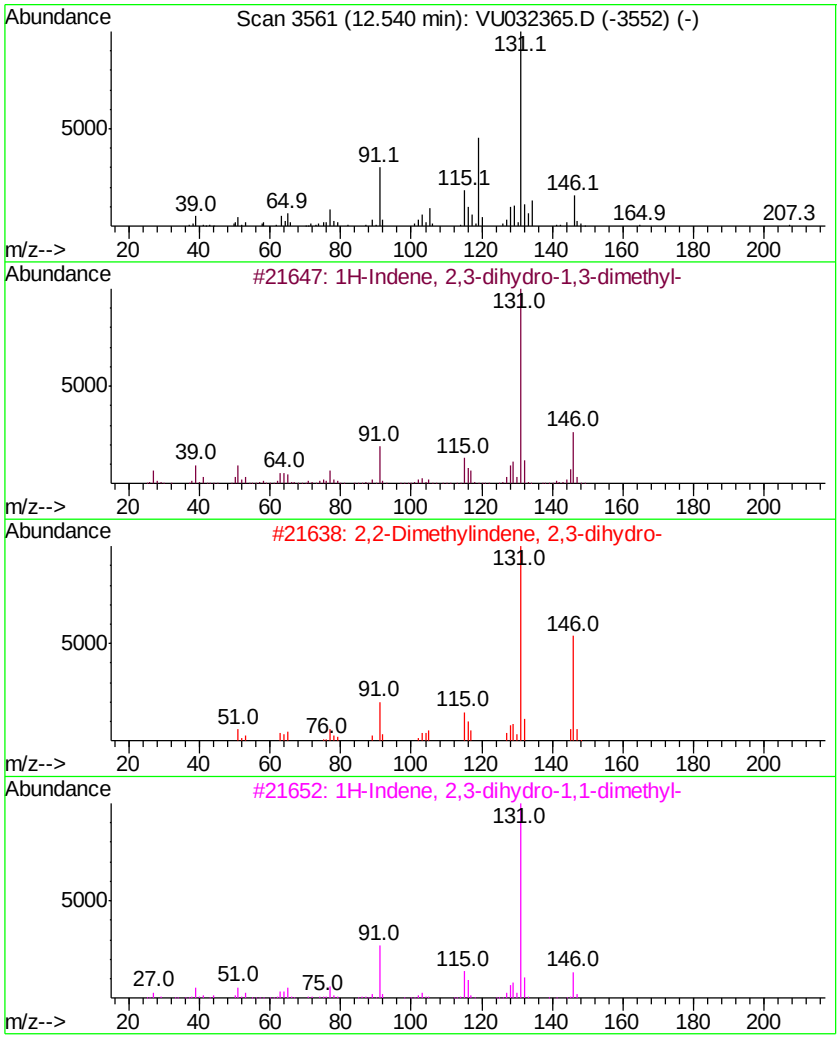
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

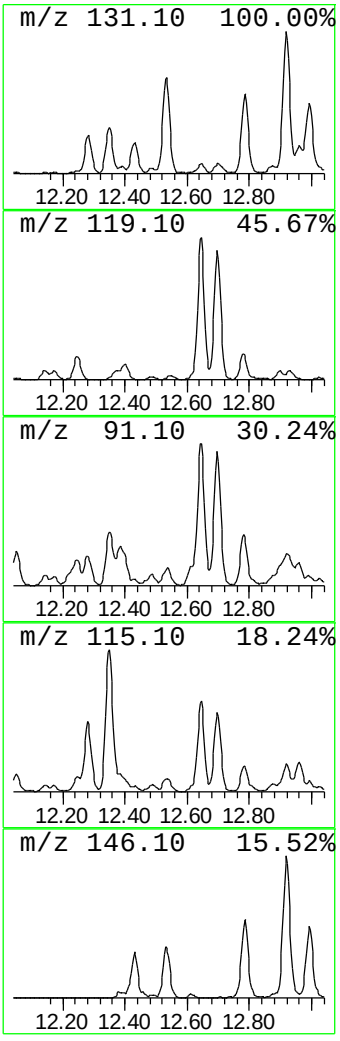
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 44 1H-Indene, 2,3-dihydro-1,3-... Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	1.11 ug/L	259085	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	81
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	81
3	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	81
4	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	81
5	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	76





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

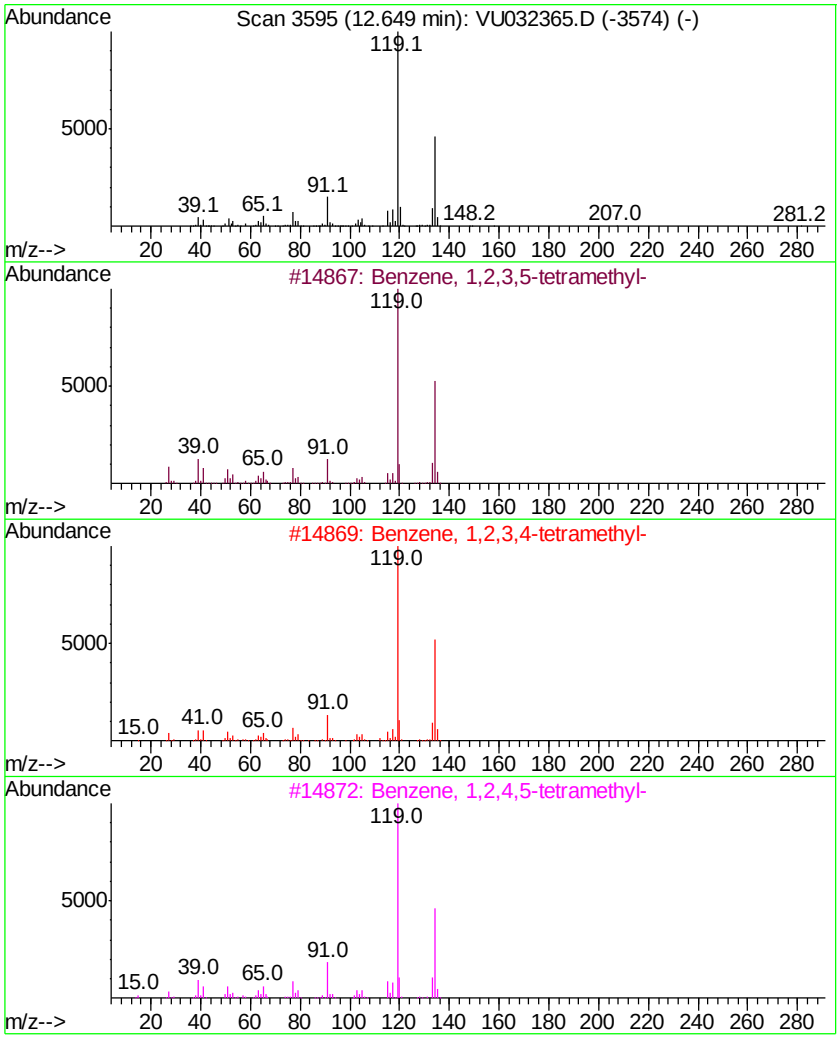
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

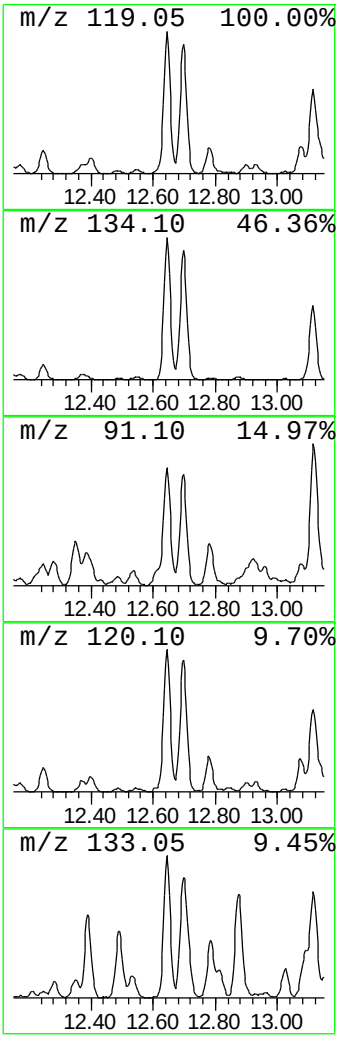
****

Peak Number 45 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	10.69 ug/L	2504990	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

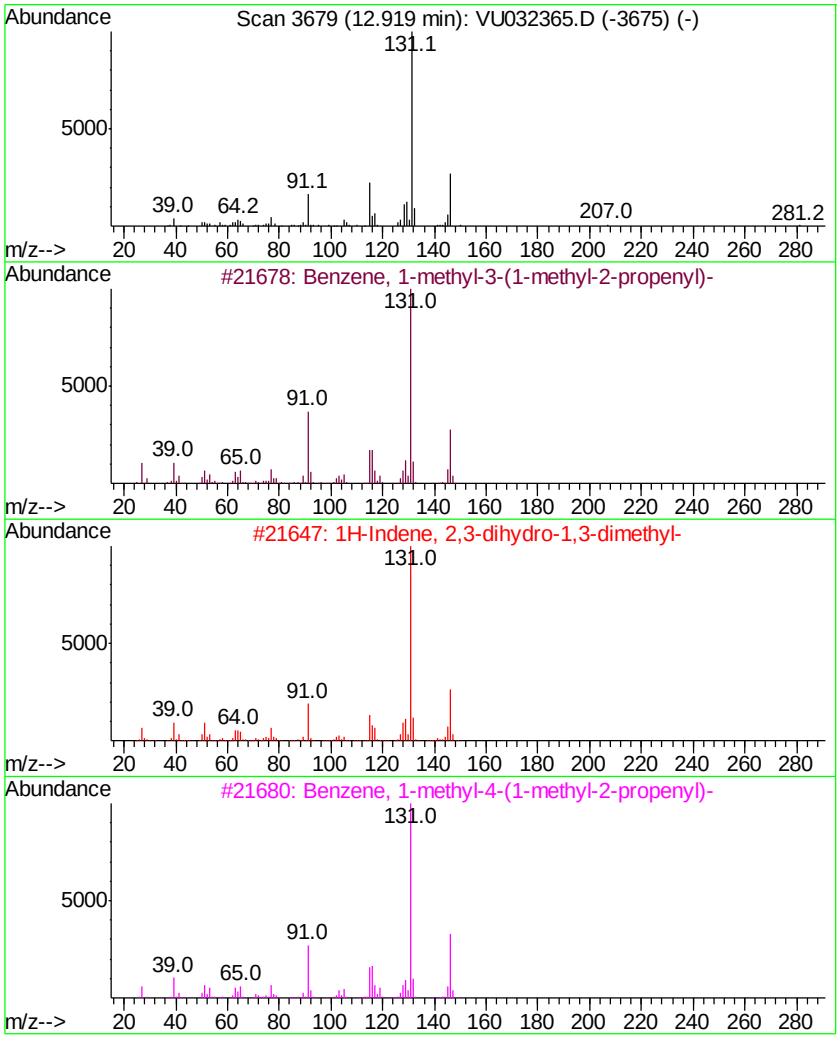
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

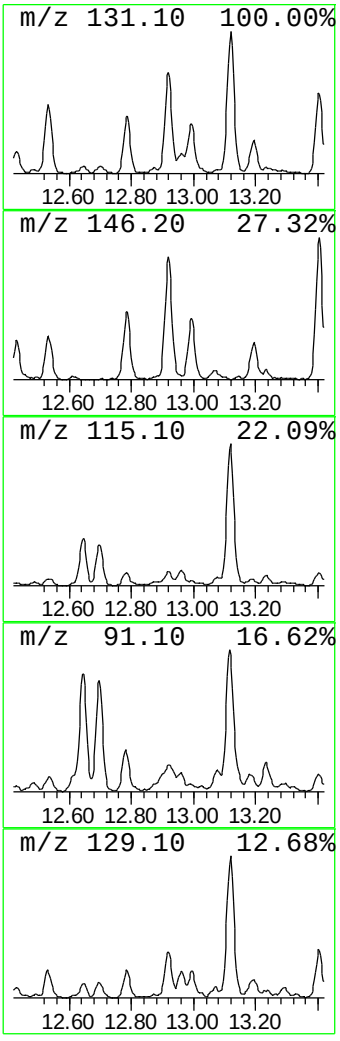
****

Peak Number 48 Benzene, 1-methyl-3-(1-meth... Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.92	0.65 ug/L	151111	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	91
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	87
3	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	87
4	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	86
5	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	86





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

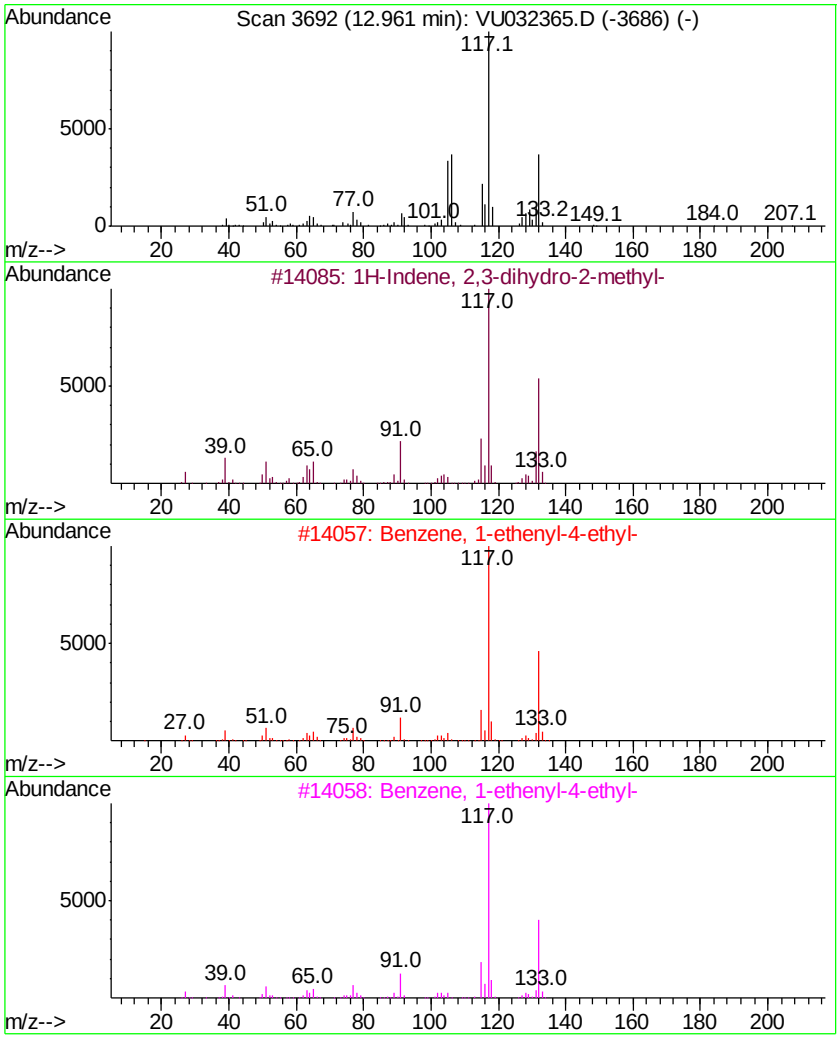
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

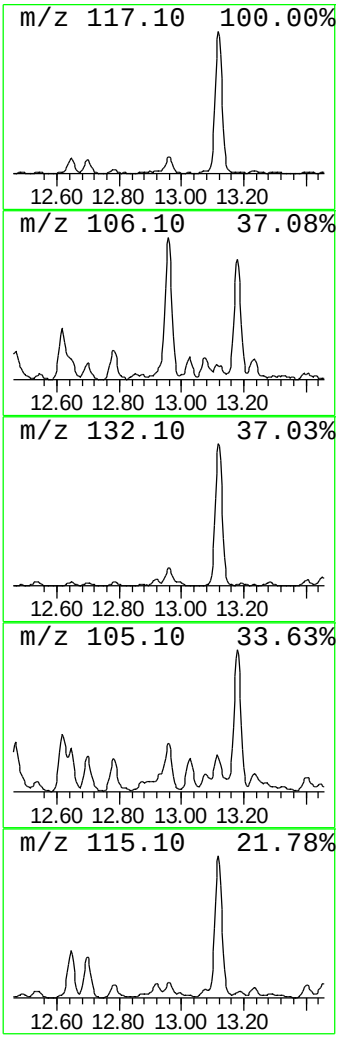
****

Peak Number 49 1H-Indene, 2,3-dihydro-2-me... Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	0.97 ug/L	227288	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	58
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	53
3	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	52
4	Indan, 1-methyl-	132	C10H12	000767-58-8	52
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	52





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

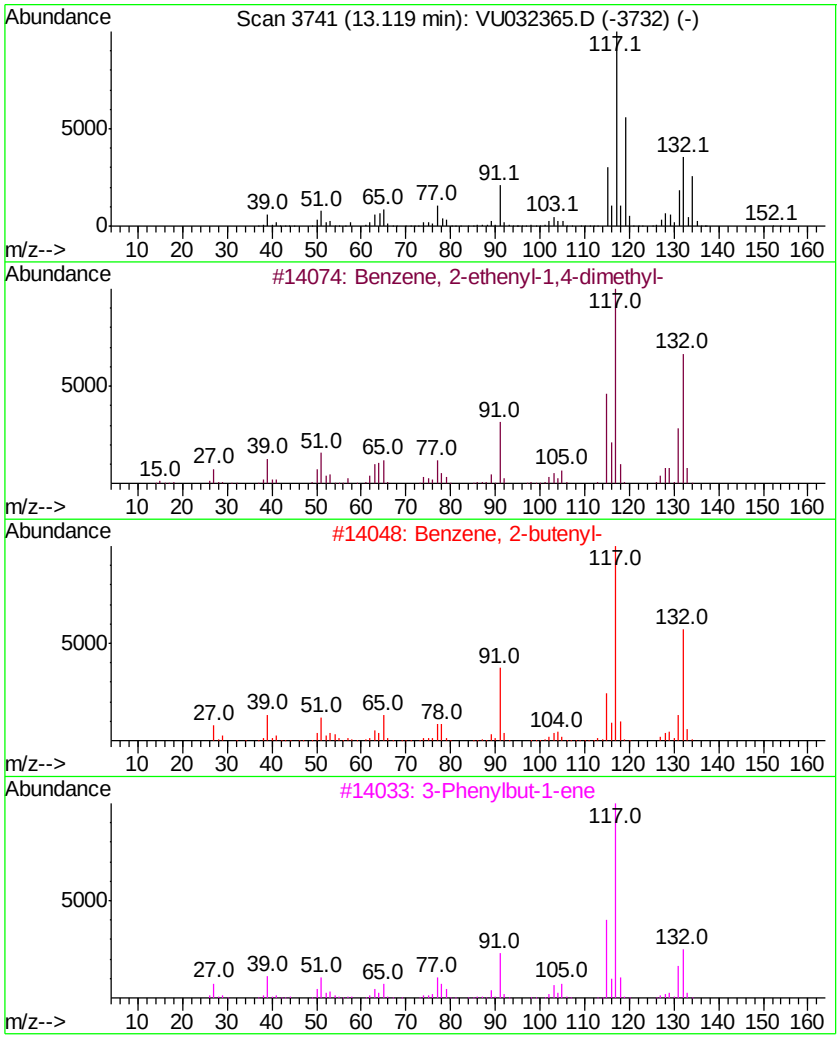
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

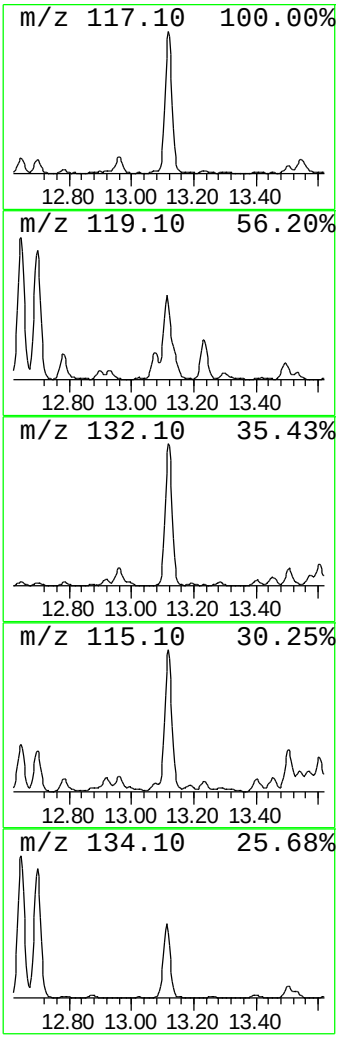
****

Peak Number 51 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	14.74 ug/L	3454120	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	95
2	Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
3	3-Phenylbut-1-ene	132	C10H12	000934-10-1	70
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	70
5	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	70





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

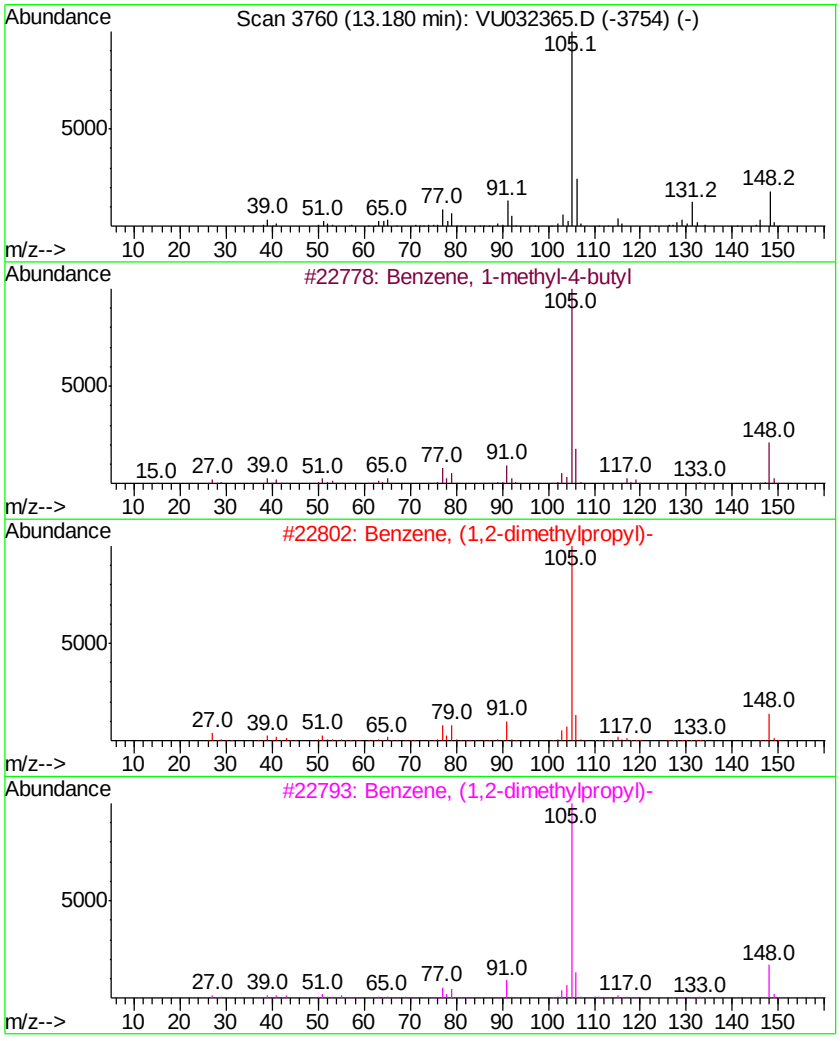
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

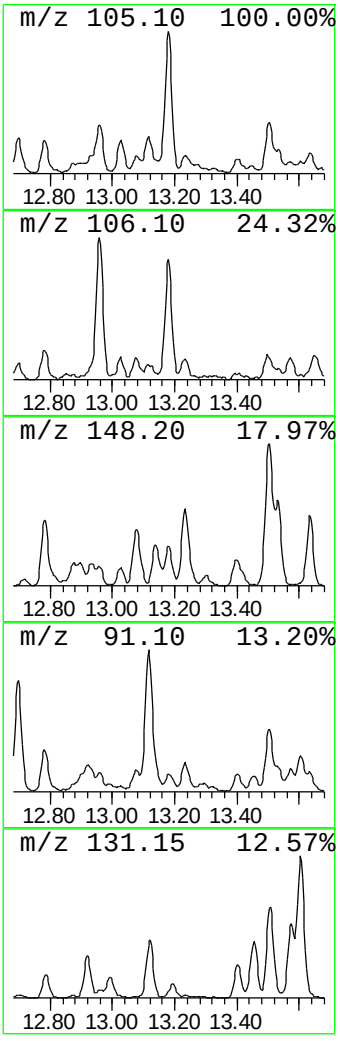
****

Peak Number 52 Benzene, 1-methyl-4-butyl Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	1.15 ug/L	268789	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-butyl	148	C11H16	001595-05-7	52
2	Benzene, (1,2-dimethylpropyl)-	148	C11H16	004481-30-5	49
3	Benzene, (1,2-dimethylpropyl)-	148	C11H16	004481-30-5	47
4	Benzene, (1-methylbutyl)-	148	C11H16	002719-52-0	46
5	Benzene, (1-methylbutyl)-	148	C11H16	002719-52-0	46





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

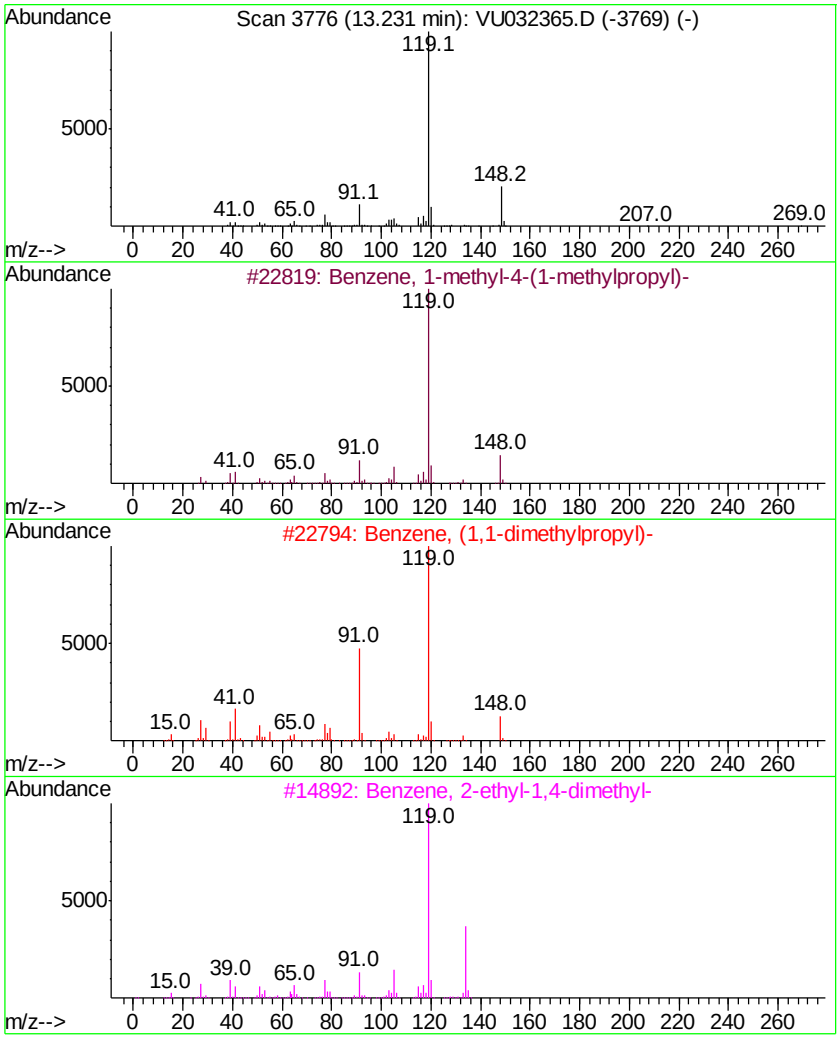
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

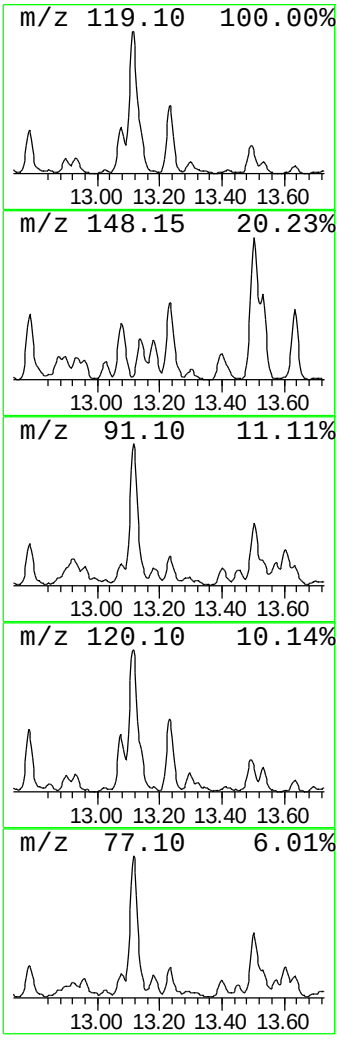
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 53 Benzene, 1-methyl-4-(1-meth... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	1.94 ug/L	454390	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	91
2	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	83
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	64
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	64
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

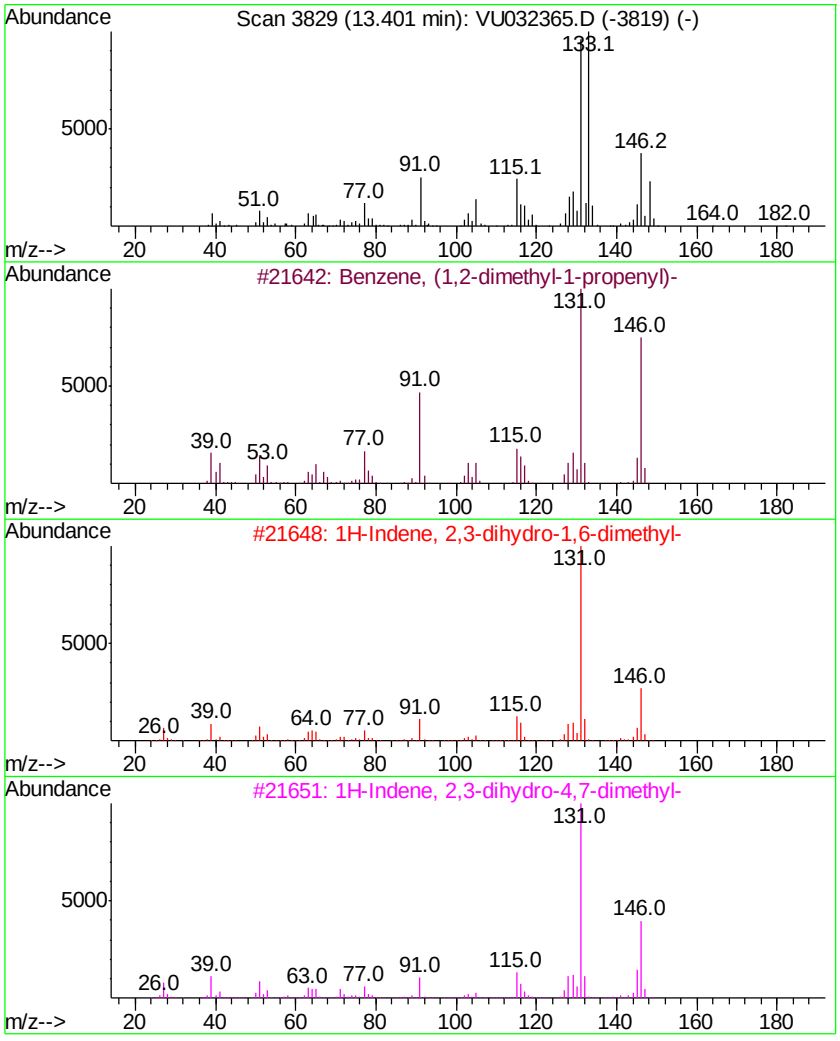
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

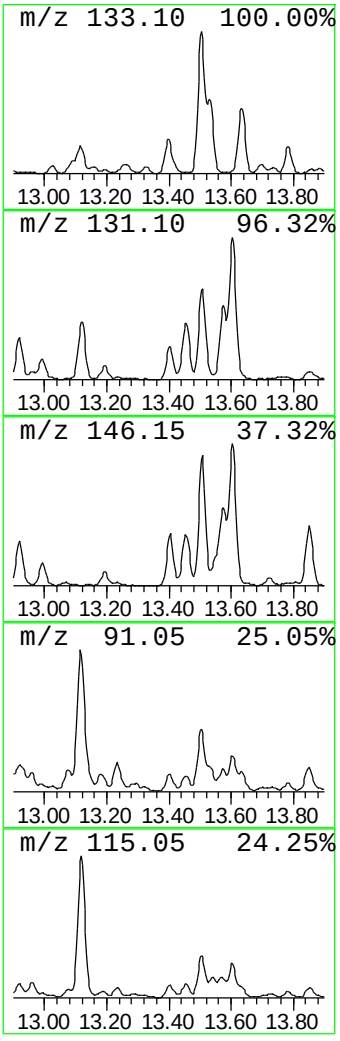
****

Peak Number 54 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	1.98 ug/L	463626	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	90
2	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	87
3	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	86
4	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	70
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	70





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

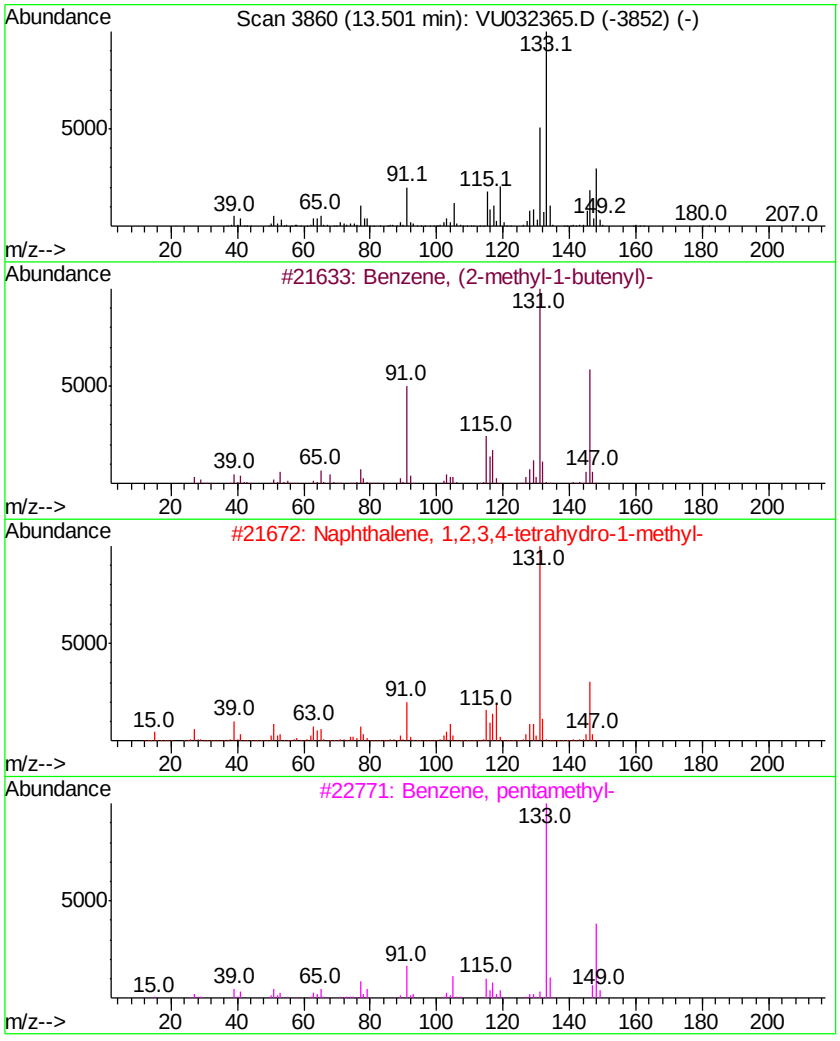
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

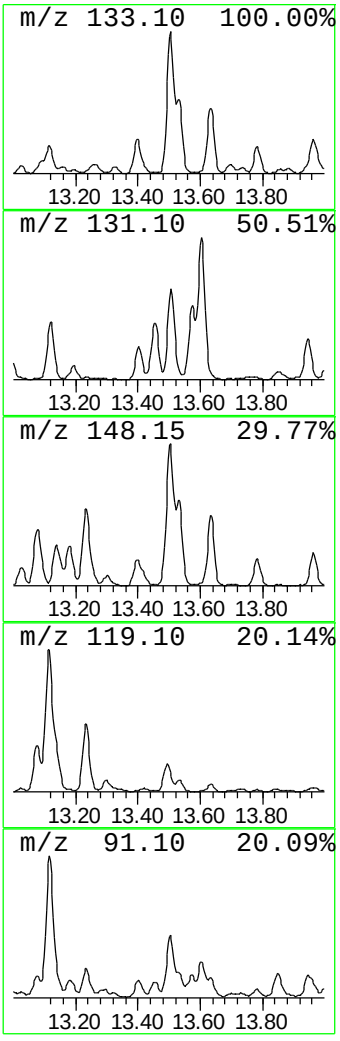
****

Peak Number 56 Benzene, (2-methyl-1-butenyl)- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	6.29 ug/L	1474370	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	87
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	60
3	Benzene, pentamethyl-	148	C11H16	000700-12-9	60
4	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	56
5	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

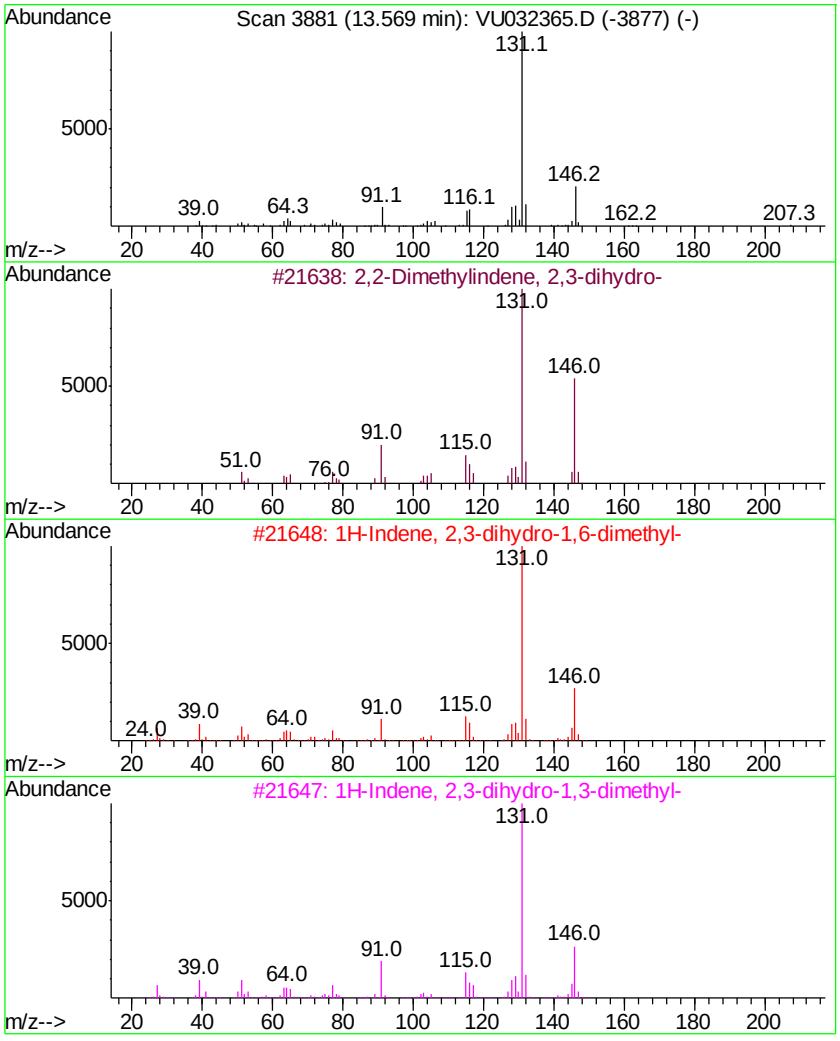
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

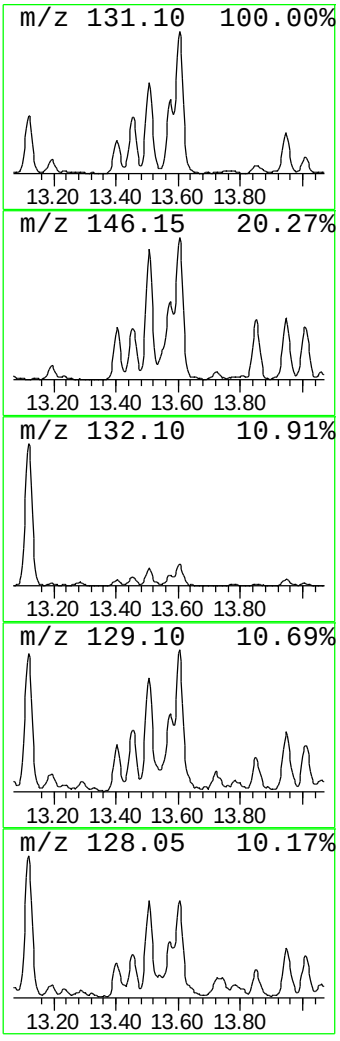
****

Peak Number 57 2,2-Dimethylindene, 2,3-dih... Concentration Rank 65

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.70 ug/L	163264	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90
2	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	90
3	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	87
4	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	87
5	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	86





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

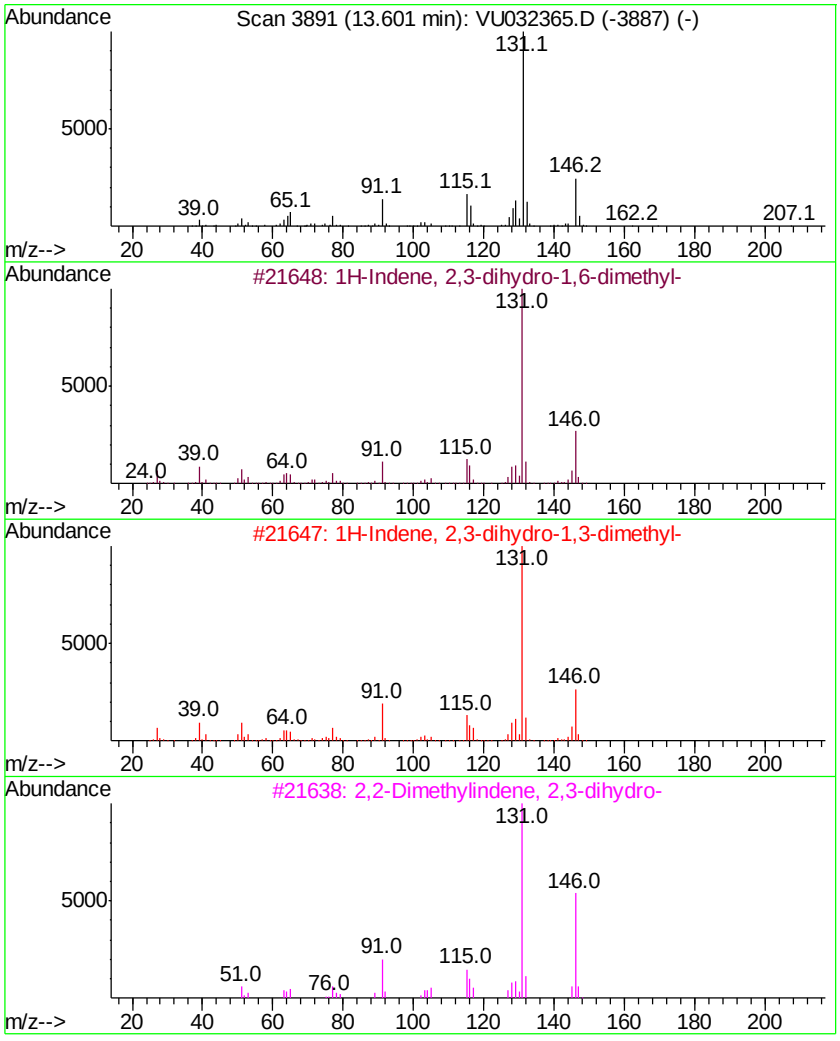
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

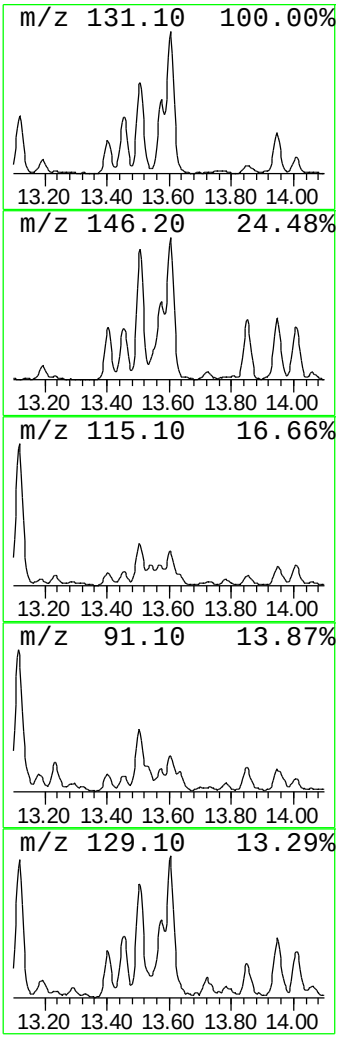
****

Peak Number 58 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	1.52 ug/L	356305	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	95
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	91
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	91
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032365.D
Acq On : 29 May 2019 17:45
Operator : JC/SP
Sample : K3045-03DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C47DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

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...	1.75	4.0	ug/L	739360	1	5.88	920716	5.0
(DEL) Alkane: Str...	2.70	9.6	ug/L	1767010	1	5.88	920716	5.0
(DEL) Alkane: Str...	2.98	4.1	ug/L	755055	1	5.88	920716	5.0
(DEL) Alkane: Str...	3.84	2.0	ug/L	364908	1	5.88	920716	5.0
(DEL) Alkane: Str...	3.98	3.9	ug/L	710403	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	4.08	0.7	ug/L	133364	1	5.88	920716	5.0
(DEL) Alkane: Str...	4.72	3.5	ug/L	637133	1	5.88	920716	5.0
(DEL) Alkane: Str...	5.07	10.7	ug/L	1964070	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	5.25	1.6	ug/L	303461	1	5.88	920716	5.0
(DEL) Alkane: Str...	5.48	4.0	ug/L	734426	1	5.88	920716	5.0
(DEL) Alkane: Str...	5.53	3.6	ug/L	664865	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	5.61	0.6	ug/L	108815	1	5.88	920716	5.0
unknown-01	6.38	1.4	ug/L	257511	1	5.88	920716	5.0
(DEL) Alkane: Str...	6.47	0.7	ug/L	130513	1	5.88	920716	5.0
(DEL) Alkane: Str...	6.53	1.6	ug/L	304592	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	6.73	1.9	ug/L	357828	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	6.92	2.5	ug/L	451964	1	5.88	920716	5.0
(DEL) Alkane: Str...	7.04	2.4	ug/L	437039	1	5.88	920716	5.0
(DEL) Alkane: Str...	7.10	0.7	ug/L	124640	1	5.88	920716	5.0
(DEL) Alkane: Str...	7.30	0.8	ug/L	153134	1	5.88	920716	5.0
(DEL) Alkane: Str...	7.37	1.1	ug/L	206887	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	7.44	0.5	ug/L	100167	1	5.88	920716	5.0
(DEL) Alkane: Cyc...	7.70	0.6	ug/L	136951	2	9.09	1105700	5.0
(DEL) Alkane: Cyc...	7.91	1.0	ug/L	220037	2	9.09	1105700	5.0
(DEL) Alkane: Cyc...	8.04	1.2	ug/L	266912	2	9.09	1105700	5.0
(DEL) Alkane: Cyc...	8.48	0.6	ug/L	126311	2	9.09	1105700	5.0
Benzene, propyl-	10.58	1.4	ug/L	319094	3	11.48	1171380	5.0
Benzene, 1-ethyl-...	10.97	1.8	ug/L	426697	3	11.48	1171380	5.0
Benzene, (2-methy...	11.29	0.7	ug/L	159917	3	11.48	1171380	5.0
2-Tolyloxirane	11.32	0.9	ug/L	219496	3	11.48	1171380	5.0
Benzene, 1-methyl...	11.42	0.7	ug/L	168177	3	11.48	1171380	5.0
Benzene, 1-etheny...	11.76	19.2	ug/L	4496020	3	11.48	1171380	5.0
Benzene, 1,2-diet...	11.98	1.9	ug/L	434866	3	11.48	1171380	5.0
Benzene, 1-methyl...	12.05	3.7	ug/L	877067	3	11.48	1171380	5.0
Benzene, 1-ethyl-...	12.25	1.6	ug/L	386934	3	11.48	1171380	5.0
Benzene, (1-methy...	12.28	2.1	ug/L	501584	3	11.48	1171380	5.0
Benzene, 1-etheny...	12.35	4.3	ug/L	1006730	3	11.48	1171380	5.0
Benzene, 1-methyl...	12.39	2.2	ug/L	516005	3	11.48	1171380	5.0
Benzene, 1,4-diet...	12.49	0.7	ug/L	173531	3	11.48	1171380	5.0
1H-Indene, 2,3-di...	12.54	1.1	ug/L	259085	3	11.48	1171380	5.0
Benzene, 1,2,3,5-...	12.65	10.7	ug/L	2504990	3	11.48	1171380	5.0
Benzene, 1-methyl...	12.92	0.7	ug/L	151111	3	11.48	1171380	5.0
1H-Indene, 2,3-di...	12.96	1.0	ug/L	227288	3	11.48	1171380	5.0
Benzene, 2-etheny...	13.12	14.7	ug/L	3454120	3	11.48	1171380	5.0
Benzene, 1-methyl...	13.18	1.1	ug/L	268789	3	11.48	1171380	5.0
Benzene, 1-methyl...	13.23	1.9	ug/L	454390	3	11.48	1171380	5.0
Benzene, (1,2-dim...	13.40	2.0	ug/L	463626	3	11.48	1171380	5.0
Benzene, (2-methy...	13.50	6.3	ug/L	1474370	3	11.48	1171380	5.0
2,2-Dimethylinden...	13.57	0.7	ug/L	163264	3	11.48	1171380	5.0

1H-Indene, 2,3-di...	13.60	1.5	ug/L	356305	3	11.48	1171380	5.0

Instrument :
MSVOA_U
ClientSampleId :
C0C47DL