LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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	181217	205807	4.75%	0.384%
2	1.672	174	181	196	rVV	129088	169153	3.90%	0.316%
3	1.749	196	205	222	rVB	507622	696219	16.05%	1.299%
4	2.270	356	367	371	rBV	312621	475664	10.97%	0.887%
5	2.299	372	376	402	rVB	373268	625922	14.43%	1.168%
6	2.698	484	500	518	rBV	788125	1630169	37.59%	3.041%
7	2.836	534	543	559	rVB	69076	148383	3.42%	0.277%
8	2.984	575	589	612	rVB	328911	705800	16.27%	1.317%
9	3.839	834	855	874	rBV3	120154	334099	7.70%	0.623%
10	3.981	879	899	917	rBV3	233255	644722	14.87%	1.203%
11	4.080	917	930	946	rVB5	47164	125413	2.89%	0.234%
12	4.189	950	964	997	rBV	224522	700460	16.15%	1.307%
13	4.643	1088	1105	1117	rBV2	211907	503753	11.62%	0.940%
14	4.720	1117	1129	1155	rVB3	214054	582863	13.44%	1.087%
15	5.071	1221	1238	1266	rVV2	745127	1824888	42.08%	3.404%
16	5.247	1270	1293	1302	rVV5	99910	294976	6.80%	0.550%
17	5.331	1302	1319	1329	rVV3	441037	1235432	28.49%	2.305%
18	5.382	1330	1335	1350	rVV	242870	479871	11.06%	0.895%
19	5.476	1350	1364	1373	rVV2	283377	697679	16.09%	1.301%
20	5.530	1374	1381	1397	rVV4	237522	587279	13.54%	1.096%
21	5.614	1398	1407	1425	rVB4	45814	104030	2.40%	0.194%
22	5.881	1476	1490	1509	rBV	461072	920275	21.22%	1.717%
23	6.328	1616	1629	1639	rVV	268073	531265	12.25%	0.991%
24	6.386	1639	1647	1661	rVB2	112510	230433	5.31%	0.430%
25	6.469	1662	1673	1681	rBV4	60356	111432	2.57%	0.208%
26	6.527	1681	1691	1702	rVB2	131107	234321	5.40%	0.437%
27	6.726	1735	1753	1768	rBV6	136981	333372	7.69%	0.622%
28	6.916	1794	1812	1828	rVB4	153521	407226	9.39%	0.760%
29	7.041	1833	1851	1861	rBV2	190792	397719	9.17%	0.742%
30	7.096	1861	1868	1877	rVV2	91537	166317	3.83%	0.310%
31	7.225	1895	1908	1922	rBV4	169955	415586	9.58%	0.775%
32	7.292	1923	1929	1939	rVV2	66987	122661	2.83%	0.229%
33	7.369	1943	1953	1964	rVB3	80631	154823	3.57%	0.289%
34	7.559	1989	2012	2033	rBV	589655	1270526	29.29%	2.370%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
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Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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	7.701	2044	2056	2065	rBV4	63667	135092	3.11%	0.252%
36	7.849	2092	2102	2112	rBV3	90683	161661	3.73%	0.302%
37	7.913	2112	2122	2142	rVB2	101458	203585	4.69%	0.380%
38	8.041	2143	2162	2171	rBV4	115672	238740	5.50%	0.445%
39	8.312	2234	2246	2280	rBV	697893	1405776	32.41%	2.622%
40	8.482	2283	2299	2310	rVB6	54426	124469	2.87%	0.232%
41	9.086	2476	2487	2508	rVV	646007	1113283	25.67%	2.077%
42	9.244	2526	2536	2551	rBV	384199	638328	14.72%	1.191%
43	9.710	2669	2681	2703	rBV7	31084	92015	2.12%	0.172%
44	10.164	2812	2822	2831	rBV	111752	174513	4.02%	0.326%
45	10.427	2894	2904	2916	rVV2	231598	384384	8.86%	0.717%
46	10.585	2942	2953	2975	rBV	178701	308471	7.11%	0.575%
47	10.967	3058	3072	3092	rBV	230202	394567	9.10%	0.736%
48	11.289	3160	3172	3176	rBV	93994	150655	3.47%	0.281%
49	11.318	3176	3181	3199	rVB	133145	208537	4.81%	0.389%
50	11.424	3202	3214	3221	rBV2	92651	147231	3.39%	0.275%
51	11.479	3221	3231	3252	rVB	682707	1132439	26.11%	2.112%
52	11.684	3285	3295	3306	rVB2	73326	118779	2.74%	0.222%
53	11.765	3306	3320	3339	rBV3	2035958	4337022	100.00%	8.090%
54	11.858	3339	3349	3371	rVB3	1085292	1866984	43.05%	3.483%
55	11.977	3375	3386	3398	rBV	272534	422728	9.75%	0.789%
56	12.051	3398	3409	3426	rVB	534584	816140	18.82%	1.522%
57	12.141	3426	3437	3442	rBV2	89736	136741	3.15%	0.255%
58	12.173	3443	3447	3456	rVB	78534	98472	2.27%	0.184%
59	12.247	3456	3470	3475	rBV	221859	363400	8.38%	0.678%
60	12.282	3475	3481	3492	rVB	309339	482300	11.12%	0.900%
61	12.350	3492	3502	3509	rBV	584792	999668	23.05%	1.865%
62	12.488	3533	3545	3552	rBV3	79840	153594	3.54%	0.287%
63	12.536	3552	3560	3574	rVB3	133861	250245	5.77%	0.467%
64	12.646	3575	3594	3602	rBV	1390555	2295401	52.93%	4.282%
65	12.697	3602	3610	3626	rVB	1247270	1922439	44.33%	3.586%
66	12.781	3626	3636	3652	rBV2	365811	625522	14.42%	1.167%
67	12.877	3658	3666	3668	rBV	74172	94739	2.18%	0.177%
68	12.922	3670	3680	3686	rVV3	183935	383319	8.84%	0.715%
69	12.958	3686	3691	3698	rVB	157338	215154	4.96%	0.401%
70	13.077	3719	3728	3732	rBV	216824	336047	7.75%	0.627%
71	13.118	3732	3741	3754	rVV2	1859114	3178809	73.29%	5.930%

LSC Area Percent Report

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Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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	rVB3	153234	249527	5.75%	0.465%
73	13.231	3769	3776	3789	rBV	270864	409141	9.43%	0.763%
74	13.401	3818	3829	3838	rBV2	249969	440980	10.17%	0.823%
75	13.456	3838	3846	3852	rBV	158712	217765	5.02%	0.406%
76	13.504	3852	3861	3868	rBV3	822332	1355379	31.25%	2.528%
77	13.572	3877	3882	3886	rBV	123825	143198	3.30%	0.267%
78	13.604	3887	3892	3898	rVB	297636	350325	8.08%	0.654%
79	13.726	3925	3930	3939	rVV4	75754	125623	2.90%	0.234%
80	13.781	3939	3947	3959	rVB2	114355	185408	4.28%	0.346%
81	13.852	3959	3969	3986	rVB4	209155	388963	8.97%	0.726%
82	13.951	3988	4000	4010	rBV4	292935	618124	14.25%	1.153%
83	14.009	4011	4018	4027	rVV3	217536	344549	7.94%	0.643%
84	14.147	4050	4061	4076	rBV2	283674	492433	11.35%	0.919%
85	14.327	4108	4117	4133	rBV2	331816	642963	14.82%	1.199%
86	14.472	4153	4162	4172	rVV2	214961	331103	7.63%	0.618%
87	14.536	4172	4182	4194	rVB2	264185	508557	11.73%	0.949%
88	14.604	4195	4203	4212	rVB4	67349	104184	2.40%	0.194%
89	14.675	4214	4225	4238	rBV5	228488	465510	10.73%	0.868%
90	14.858	4274	4282	4295	rVV2	158225	325126	7.50%	0.606%
91	14.932	4297	4305	4319	rVB5	111484	225627	5.20%	0.421%
92	15.009	4320	4329	4335	rBV4	62533	93565	2.16%	0.175%
93	15.060	4336	4345	4357	rBV3	173541	320384	7.39%	0.598%
94	15.122	4357	4364	4372	rBV4	67104	111995	2.58%	0.209%
95	15.244	4394	4402	4414	rVB8	45700	98452	2.27%	0.184%
96	15.585	4495	4508	4523	rBV5	101885	219841	5.07%	0.410%
97	15.832	4570	4585	4595	rBV2	87752	188202	4.34%	0.351%
98	16.057	4646	4655	4663	rBV	128477	209252	4.82%	0.390%
99	16.257	4706	4717	4722	rBV3	72364	112235	2.59%	0.209%
100	16.430	4761	4771	4781	rBV4	86566	149117	3.44%	0.278%

Sum of corrected areas: 53607315

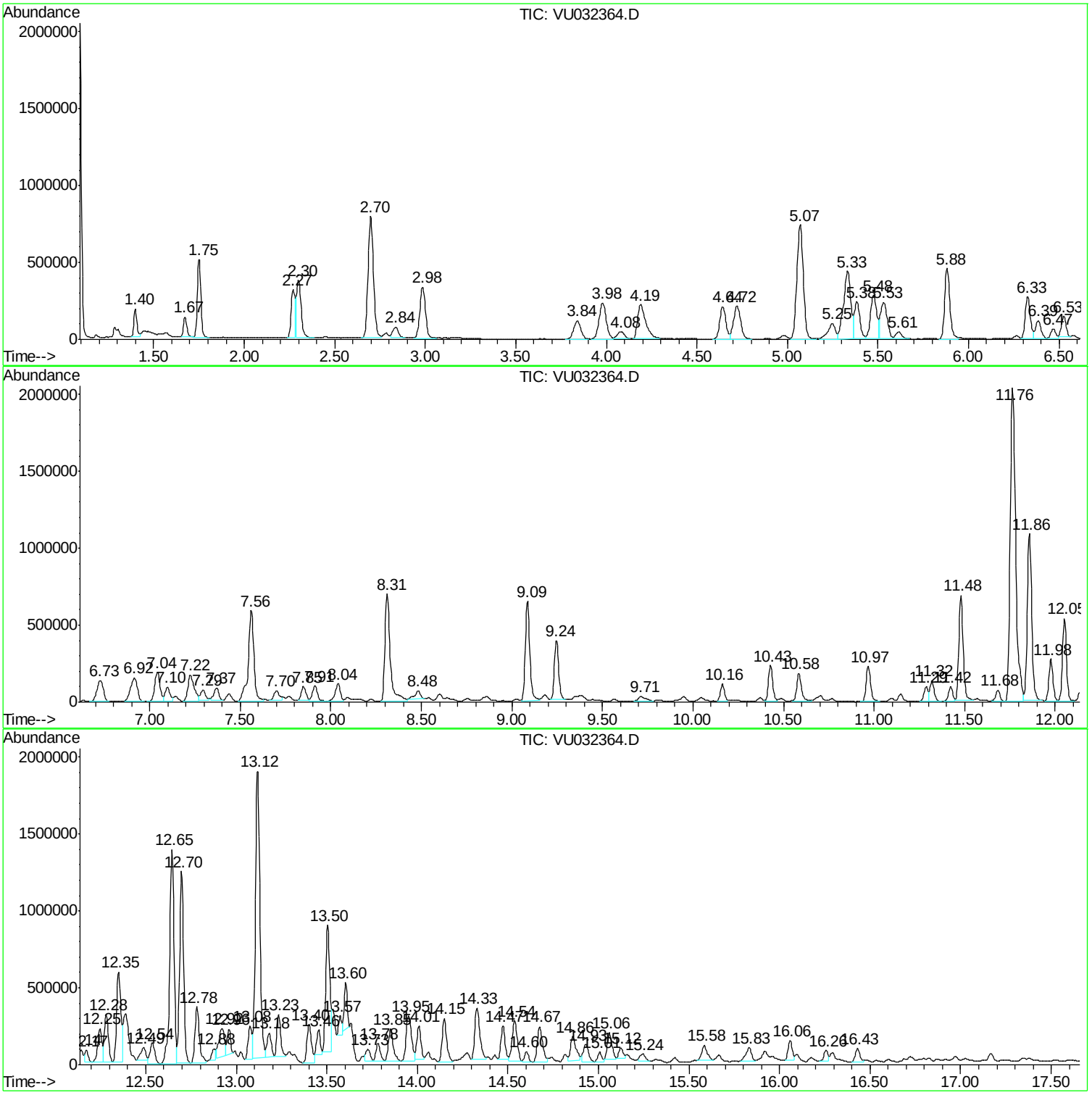
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

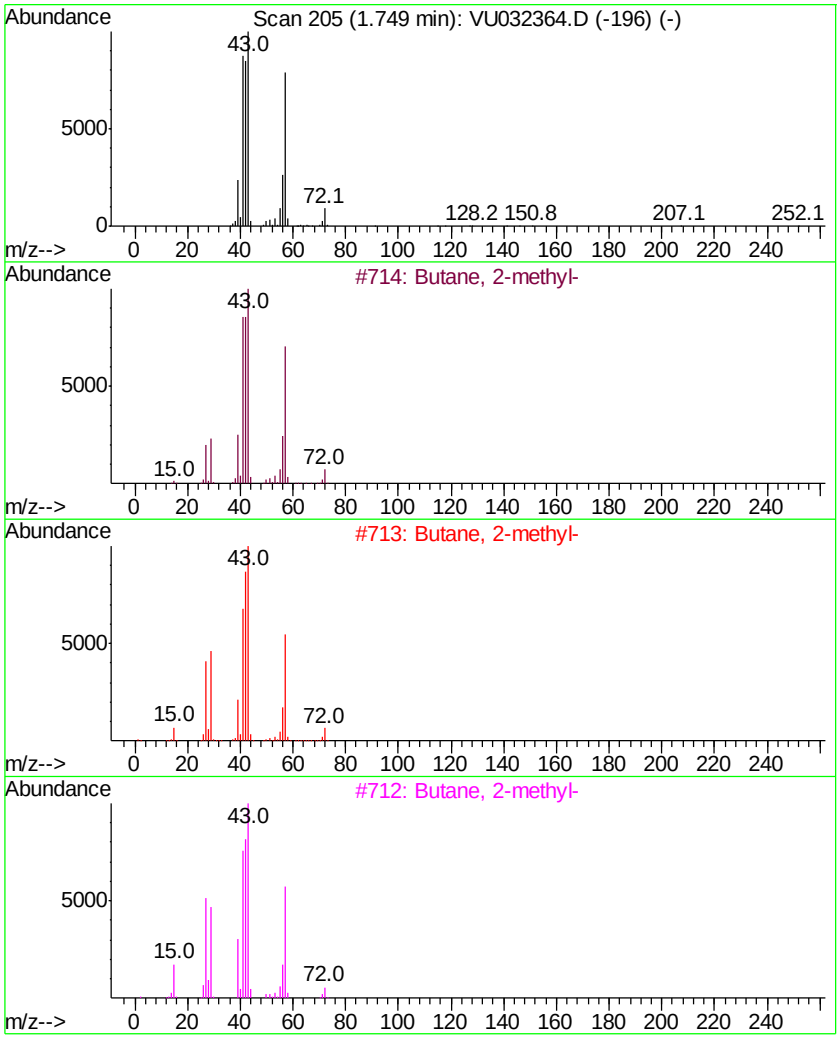
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

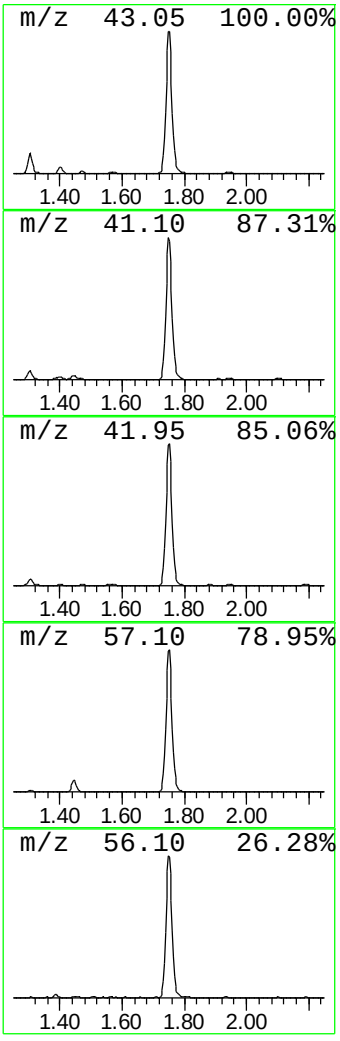
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.75	3.78 ug/L	696219	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	91
3	Butane, 2-methyl-	72	C5H12	000078-78-4	80
4	3-Buten-1-ol	72	C4H8O	000627-27-0	43
5	Pentane	72	C5H12	000109-66-0	32





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

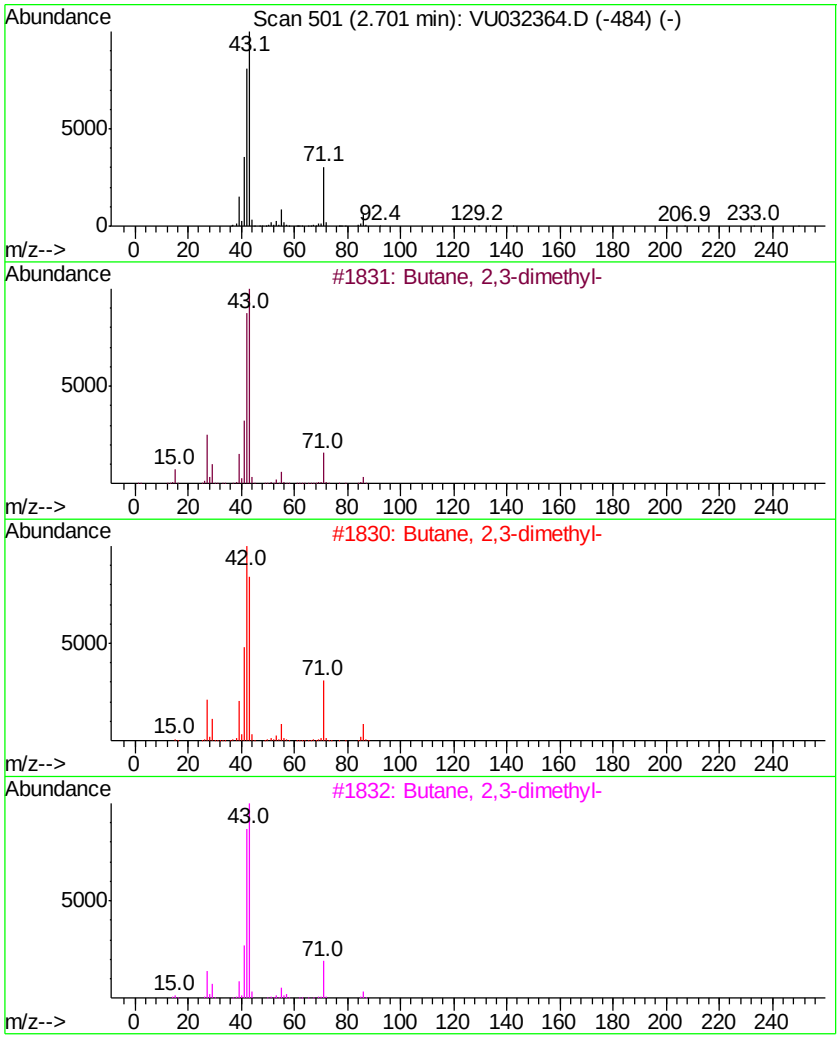
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

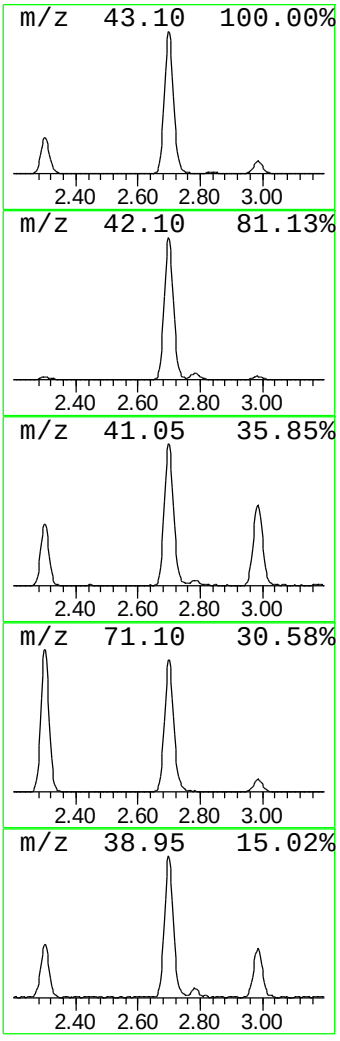
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.70	8.86 ug/L	1630170	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	90
2	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	87
3	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	80
4	Pentane, 2-methyl-	86	C6H14	000107-83-5	50
5	Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	49





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

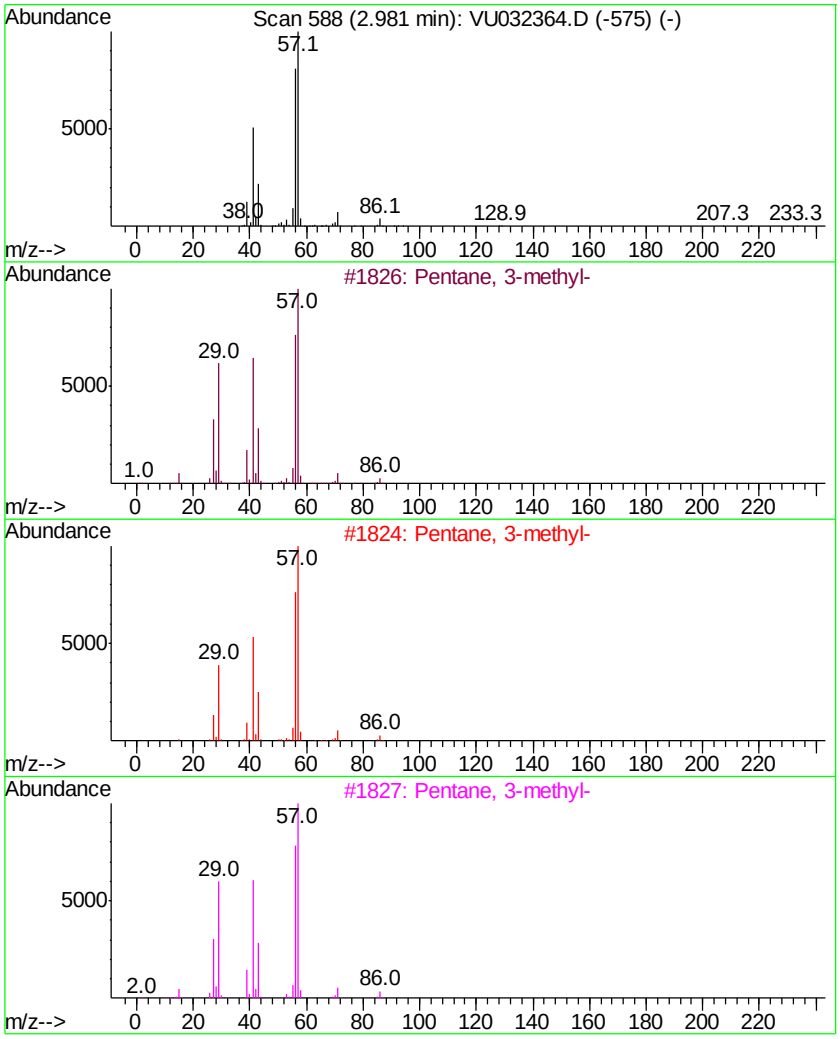
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

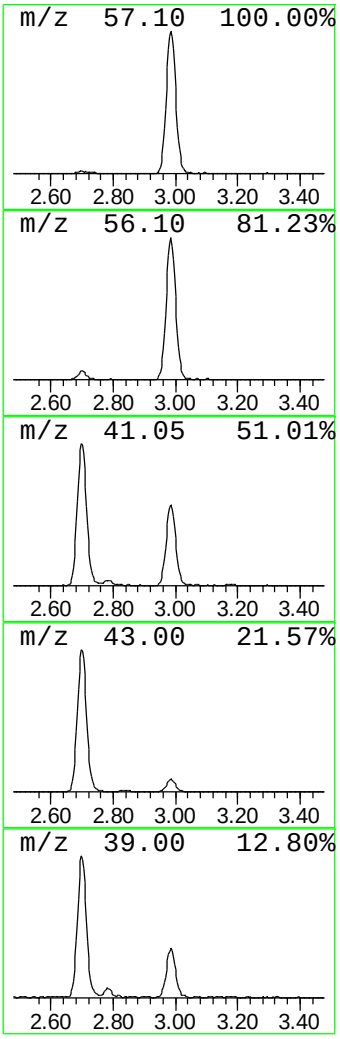
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.98	3.83 ug/L	705800	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	91
4	Pentane, 3-ethyl-2,2-dimethyl-	128	C9H20	016747-32-3	78
5	Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	78





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

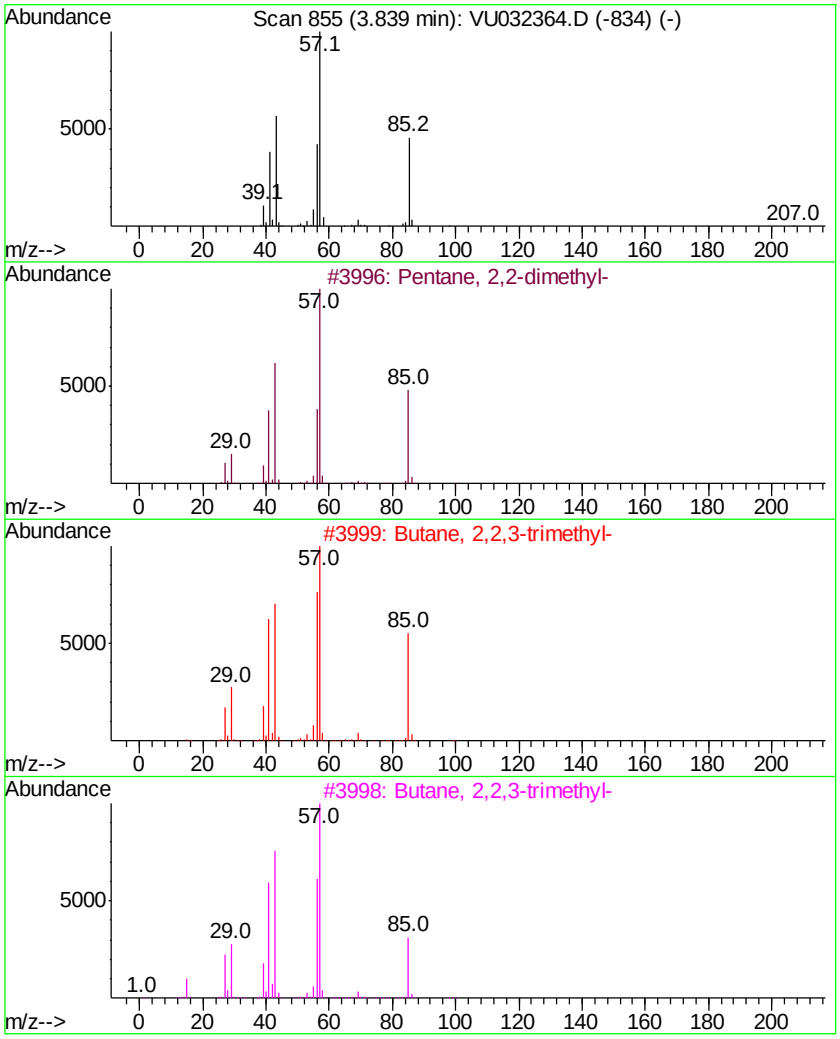
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

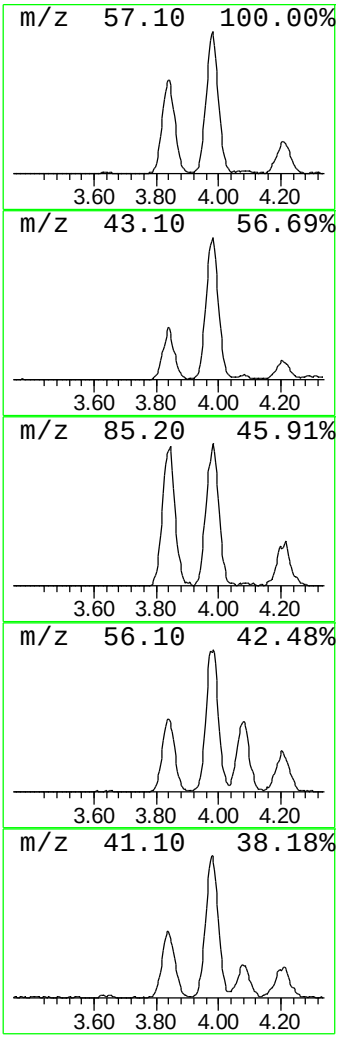
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.84	1.82 ug/L	334099	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	83
2	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	78
3	Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	74
4	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	74
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

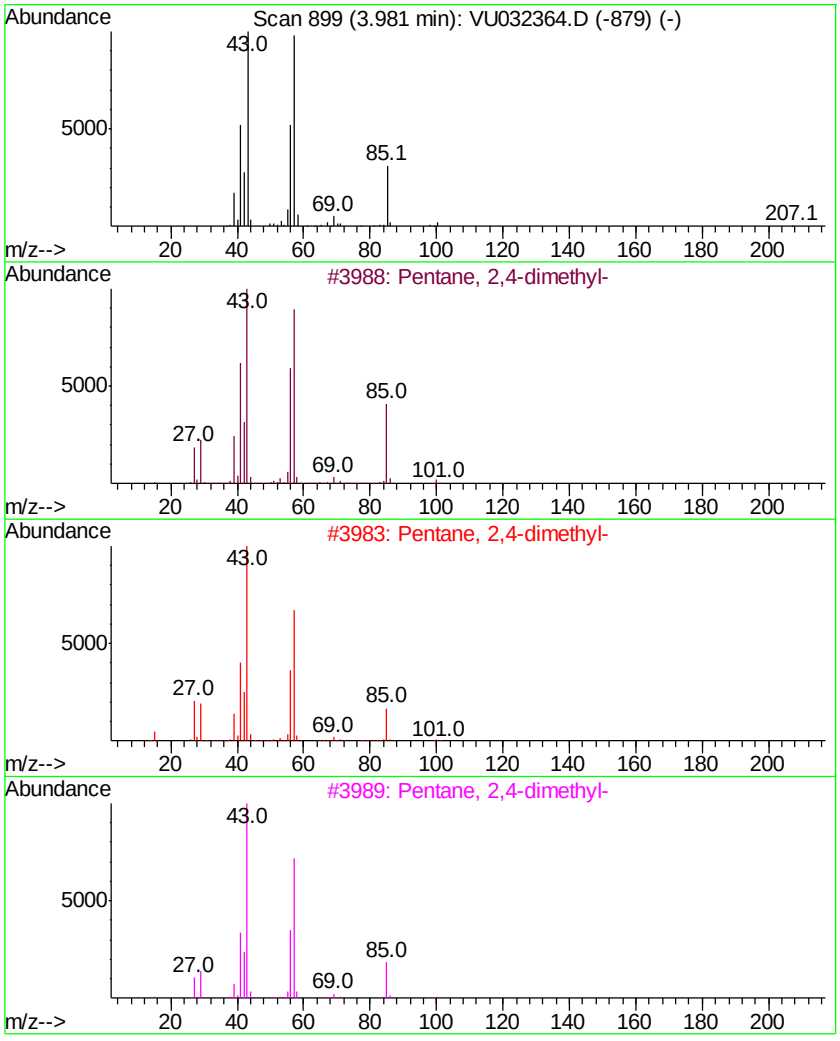
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

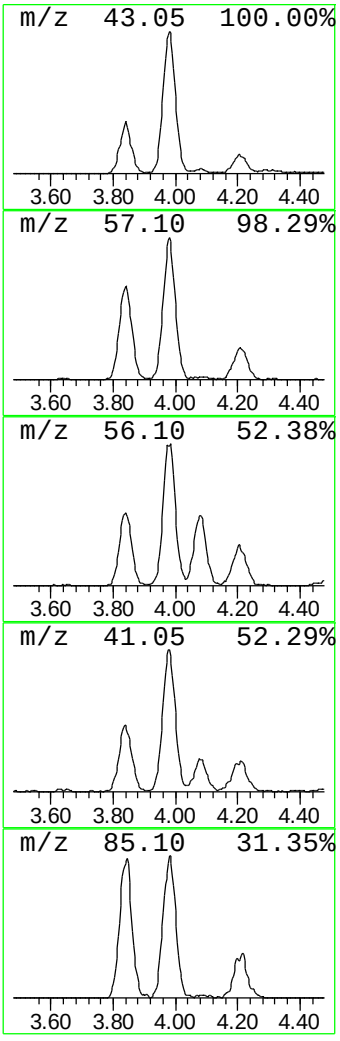
****

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.98	3.50 ug/L	644722	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	91
3	Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	90
4	Heptane, 3-methyl-	114	C8H18	000589-81-1	72
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

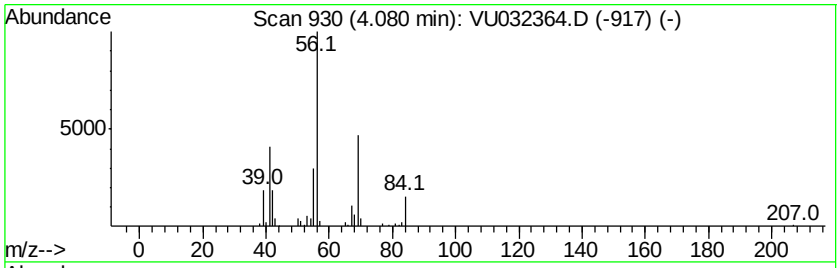
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

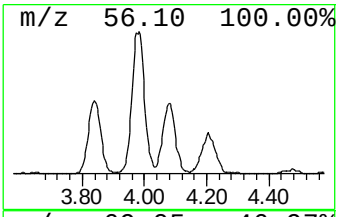
****

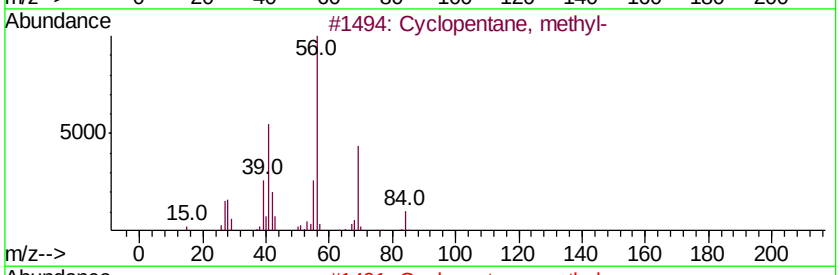
Peak Number 7 (DEL) Alkane: Cyclic4.08 Concentration Rank 60

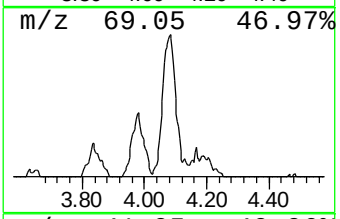
R.T.	EstConc	Area	Relative to ISTD	R.T.
4.08	0.68 ug/L	125413	1,4-Difluorobenzene	5.88

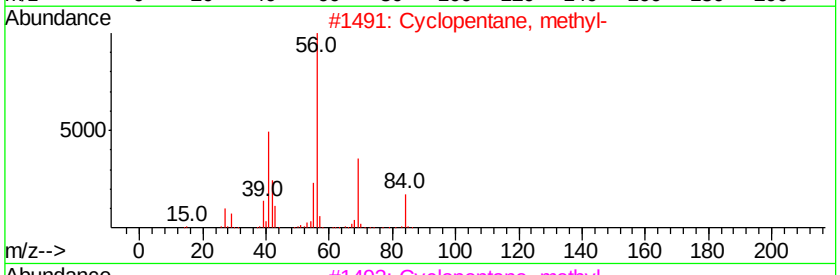
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2	Cyclopentane, methyl-	84	C6H12	000096-37-7	78
3	Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4	Cyclobutane, ethyl-	84	C6H12	004806-61-5	59
5	Cyclohexane	84	C6H12	000110-82-7	56

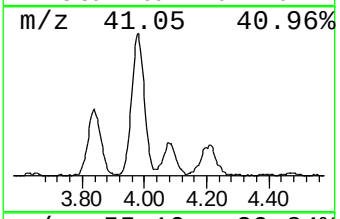


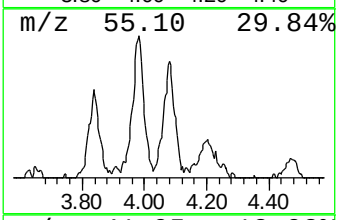


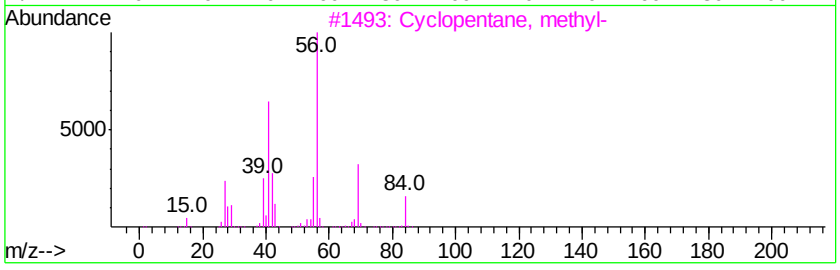


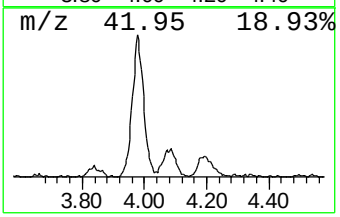












Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

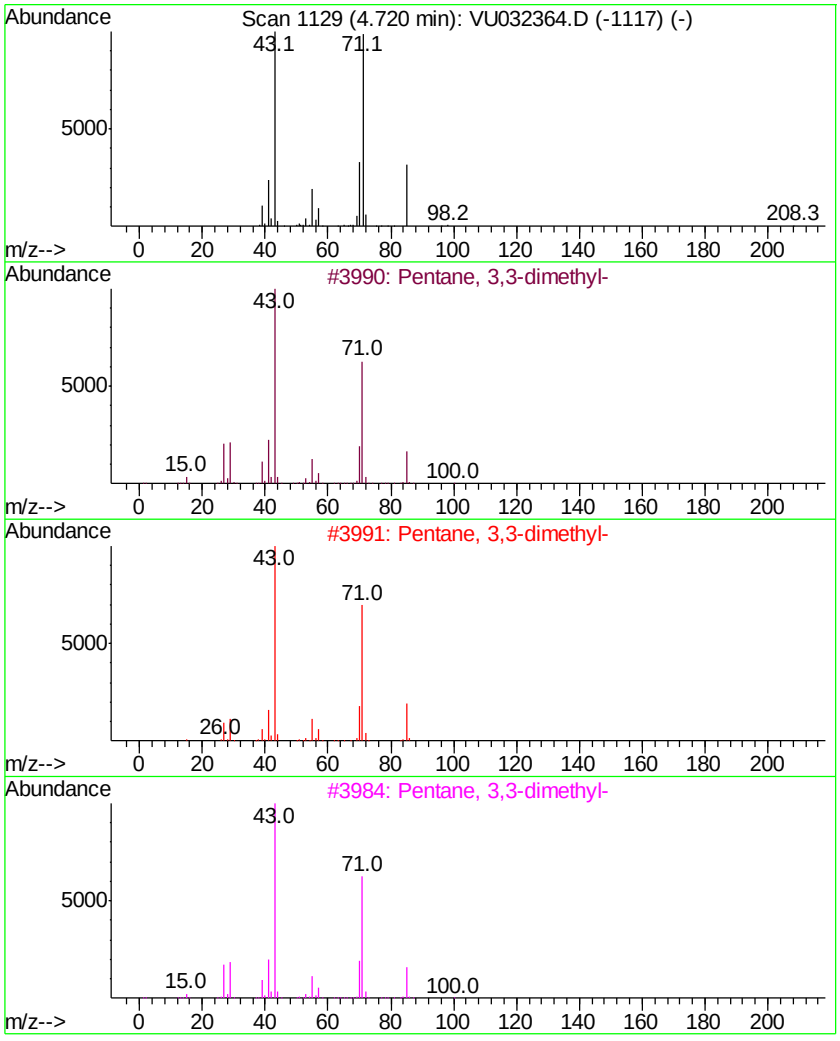
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

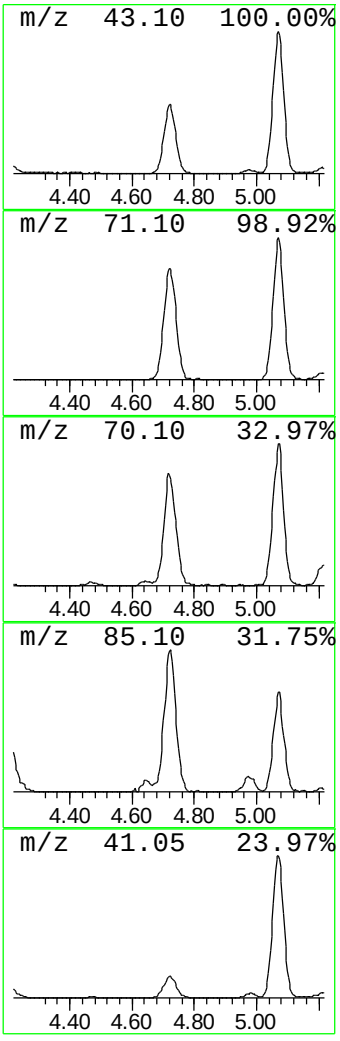
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.72	3.17 ug/L	582863	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	83
2	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	74
3	Pentane, 3,3-dimethyl-	100	C7H16	000562-49-2	64
4	1-Butanol, 2,2-dimethyl-	102	C6H14O	001185-33-7	64
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	45





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

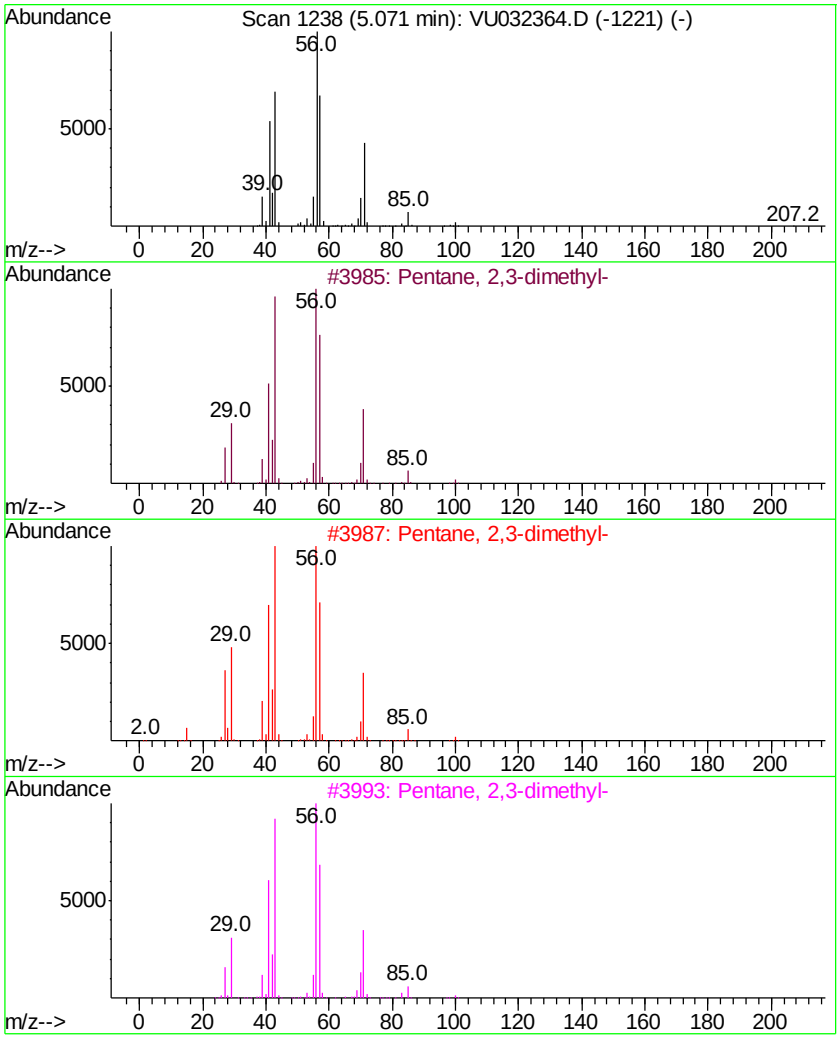
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

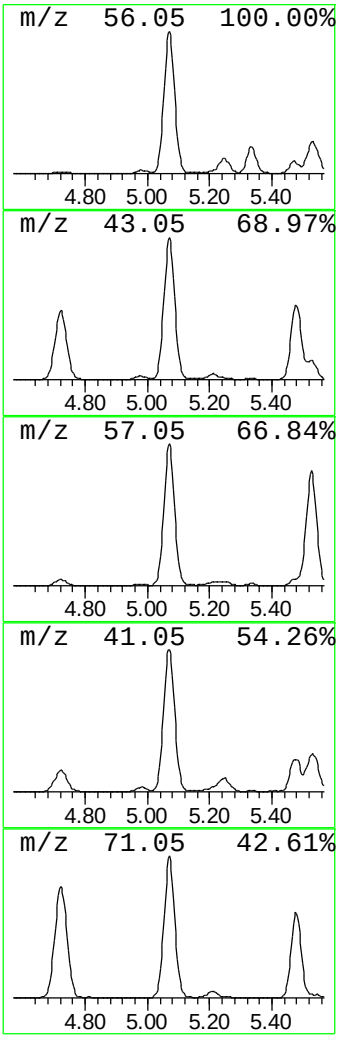
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.07	9.91 ug/L	1824890	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	91
4	Pentane, 2,3-dimethyl-	100	C7H16	000565-59-3	91
5	Hexane, 2,2,4-trimethyl-	128	C9H20	016747-26-5	56





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

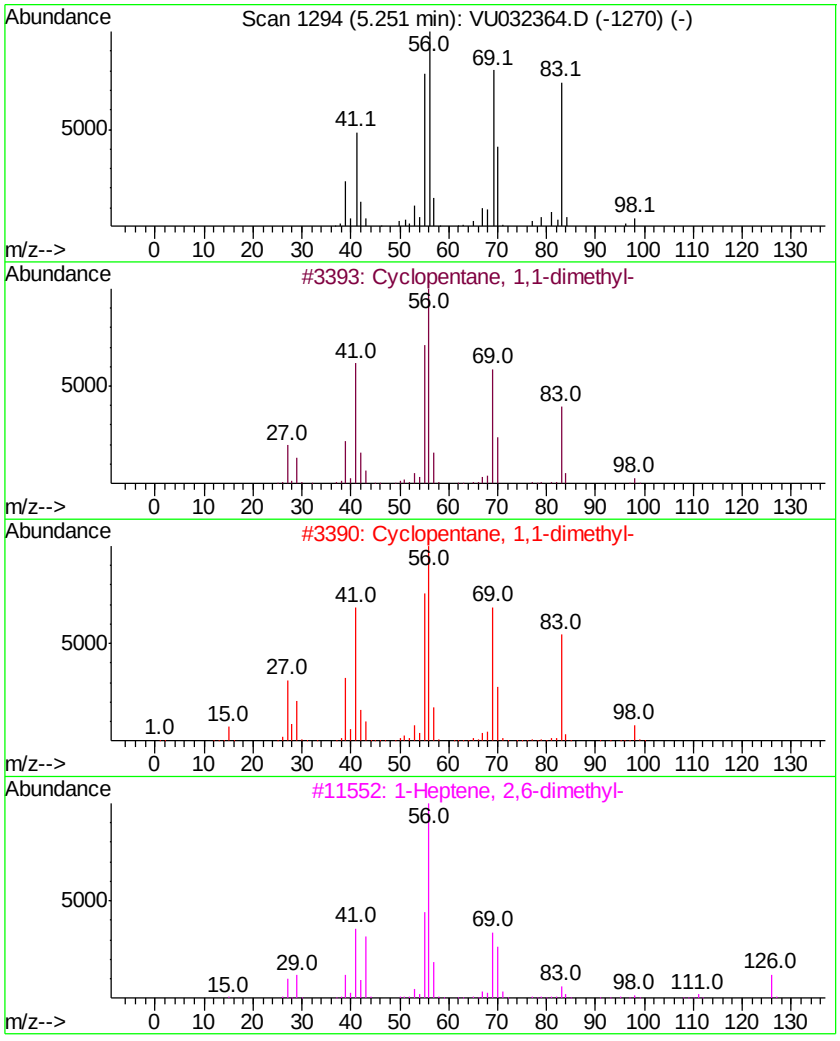
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

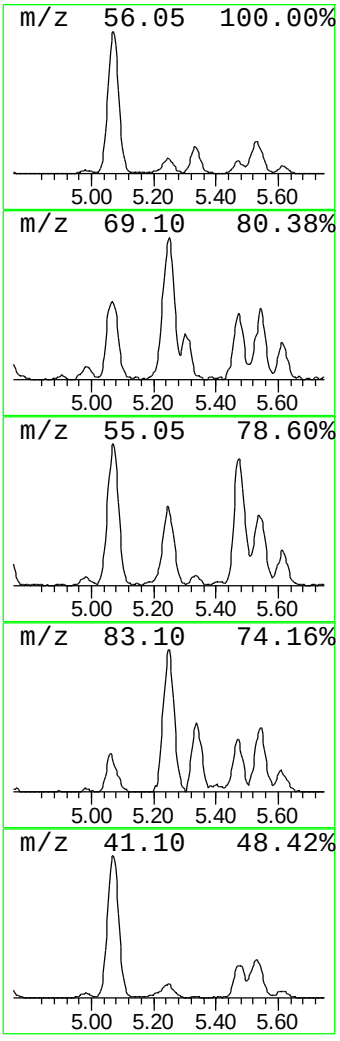
****

Peak Number 10 (DEL) Alkane: Cyclic5.25 Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.25	1.60 ug/L	294976	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	91
2	Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	87
3	1-Heptene, 2,6-dimethyl-	126	C9H18	003074-78-0	64
4	2-Ethylthiolane, S,S-dioxide	148	C6H12O2S	010178-59-3	43
5	Cyclopentane, 1-ethyl-1-methyl-	112	C8H16	016747-50-5	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

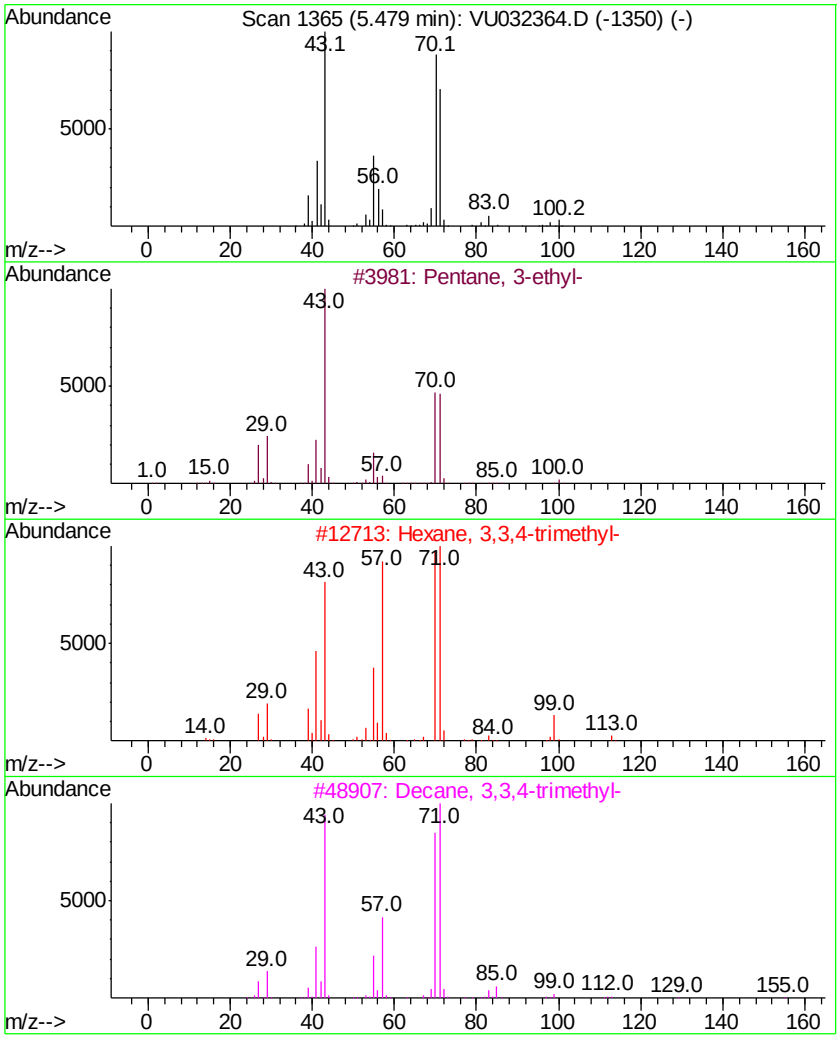
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

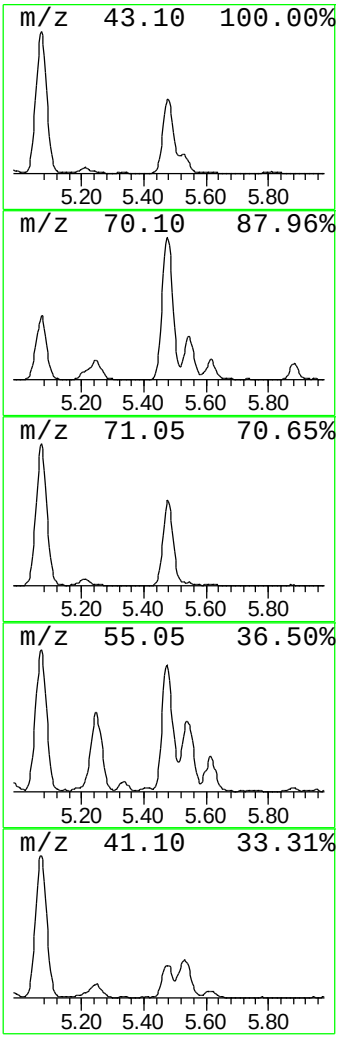
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.48	3.79 ug/L	697679	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 3-ethyl-	100	C7H16	000617-78-7	64
2	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	59
3	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	56
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	50
5	Hexane, 3-methyl-	100	C7H16	000589-34-4	50





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

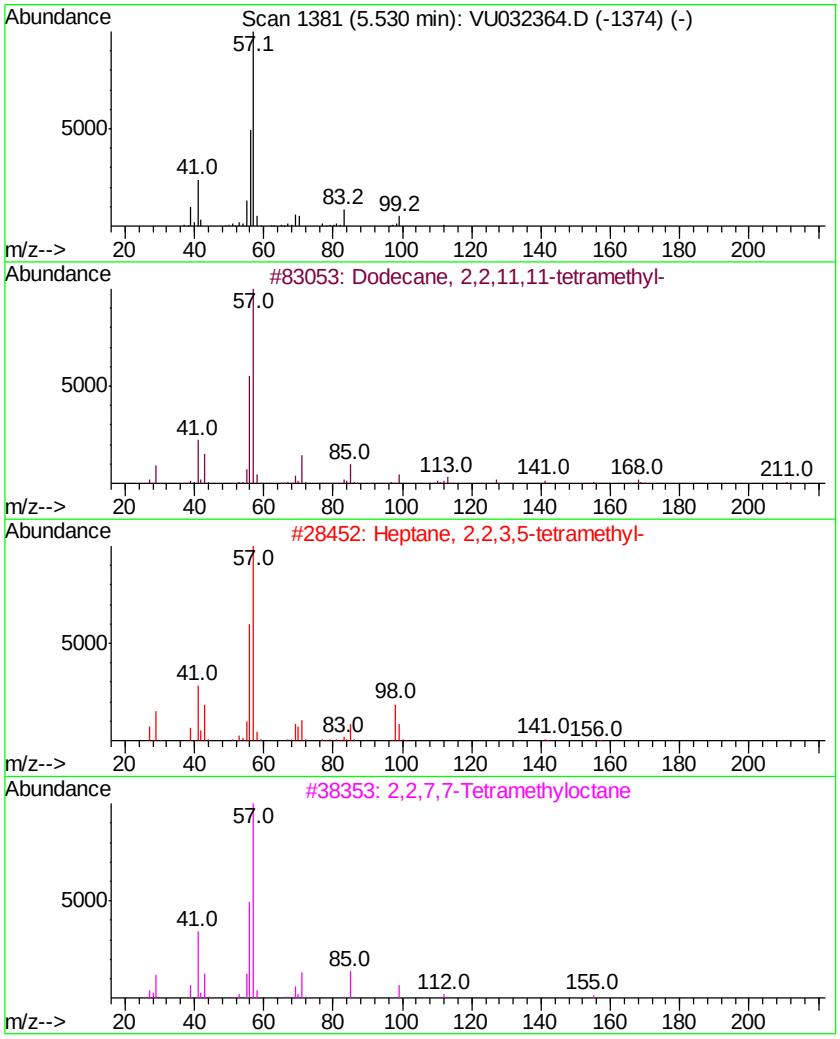
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

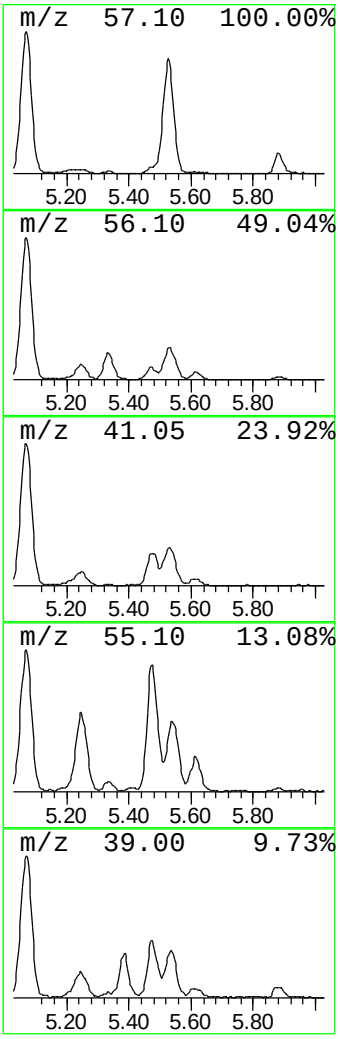
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.53	3.19 ug/L	587279	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	72
2	Heptane, 2,2,3,5-tetramethyl-	156	C11H24	061868-42-6	64
3	2,2,7,7-Tetramethyloctane	170	C12H26	001071-31-4	64
4	Hexane, 2,2-dimethyl-	114	C8H18	000590-73-8	59
5	Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

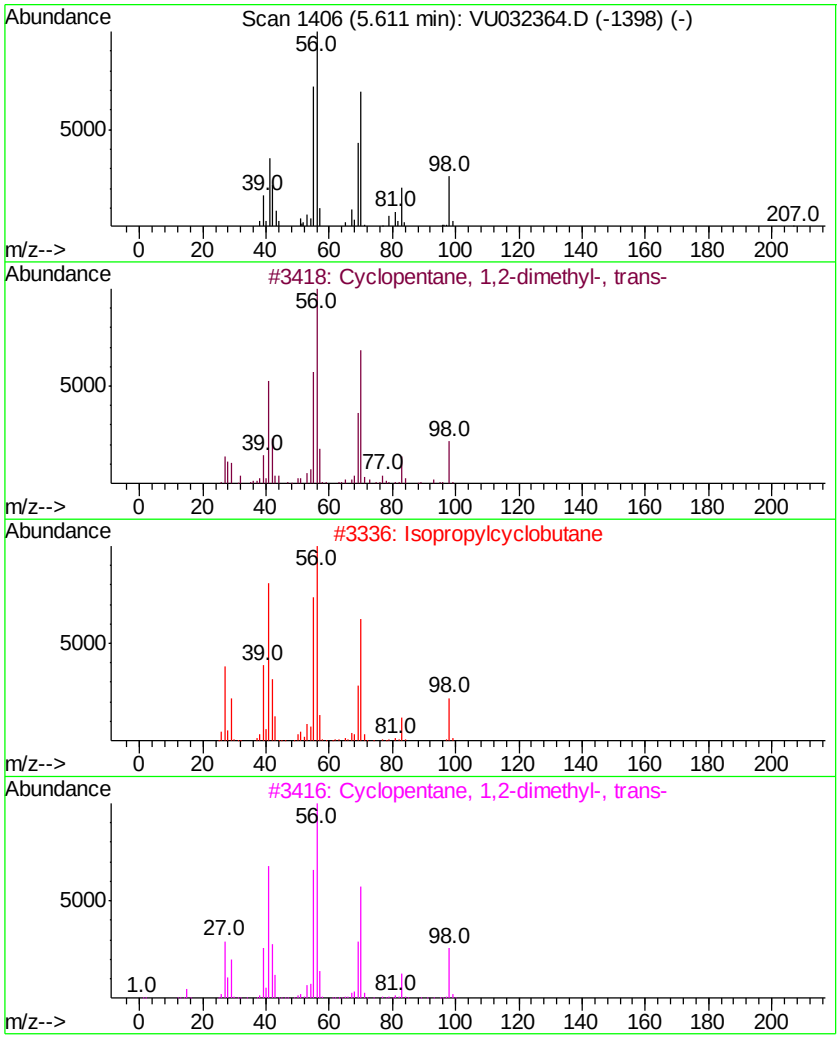
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

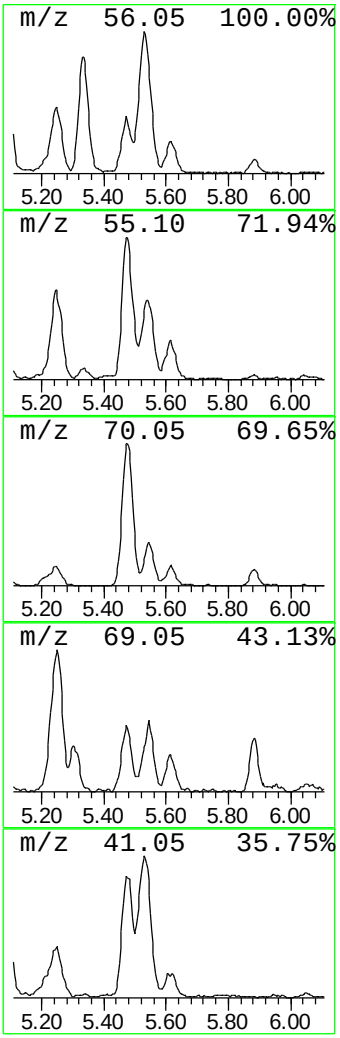
****

Peak Number 13 (DEL) Alkane: Cyclic5.61 Concentration Rank 70

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.61	0.57 ug/L	104030	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	90
2	Isopropylcyclobutane	98	C7H14	000872-56-0	90
3	Cyclopentane, 1,2-dimethyl-, trans-	98	C7H14	000822-50-4	87
4	Cyclopentane, 1,2-dimethyl-	98	C7H14	002452-99-5	83
5	Cyclopentane, 1,2-dimethyl-, cis-	98	C7H14	001192-18-3	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

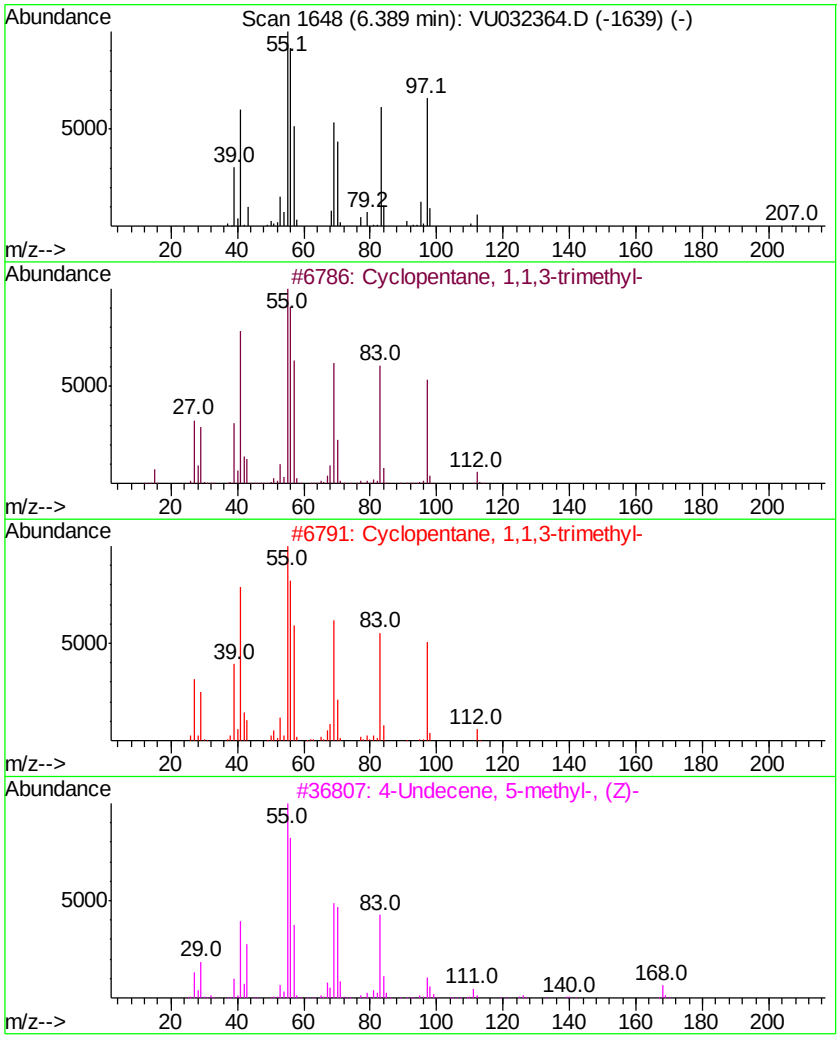
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

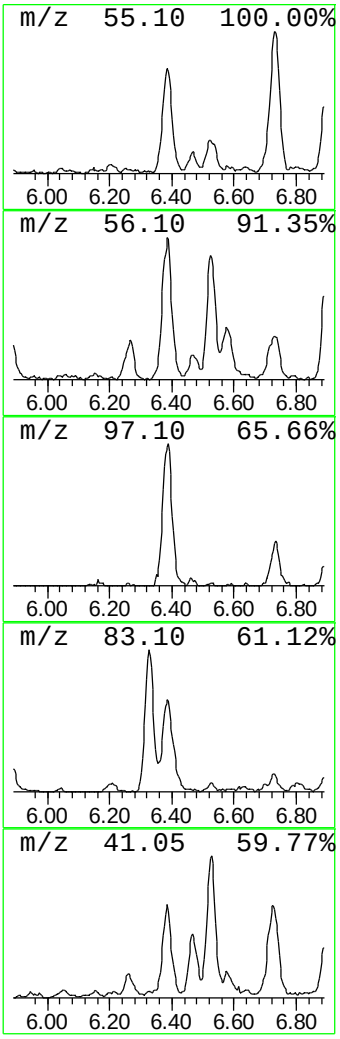
****

Peak Number 14 (DEL) Alkane: Cyclic6.39 Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.39	1.25 ug/L	230433	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	91
2	Cyclopentane, 1,1,3-trimethyl-	112	C8H16	004516-69-2	87
3	4-Undecene, 5-methyl-, (Z)-	168	C12H24	074630-69-6	64
4	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	53
5	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

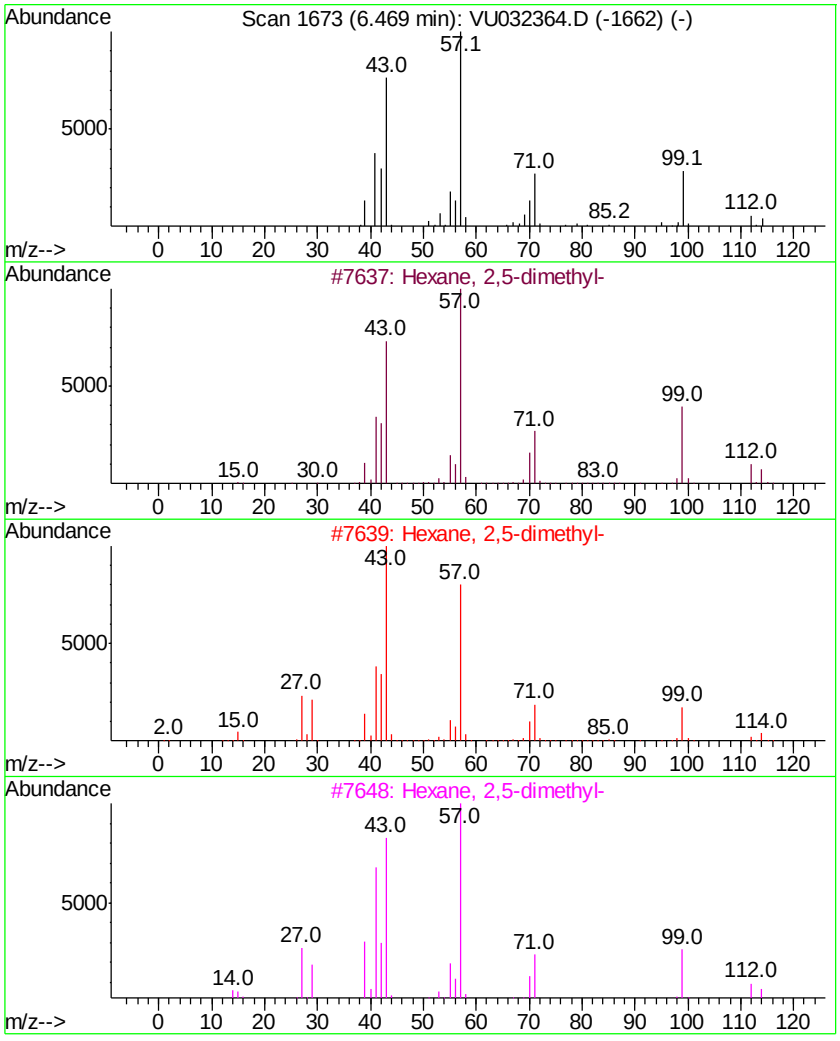
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

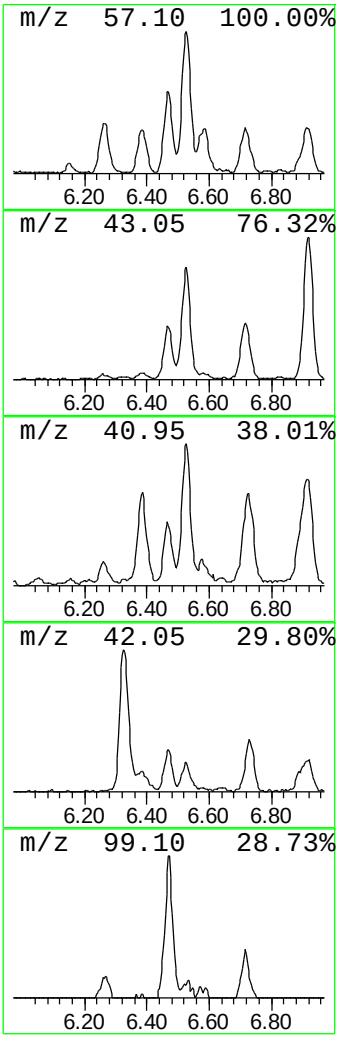
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 68

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.47	0.61 ug/L	111432	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	91
2	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	91
3	Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	81
4	Octane, 2,7-dimethyl-	142	C10H22	001072-16-8	53
5	Heptane, 2-methyl-	114	C8H18	000592-27-8	52





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

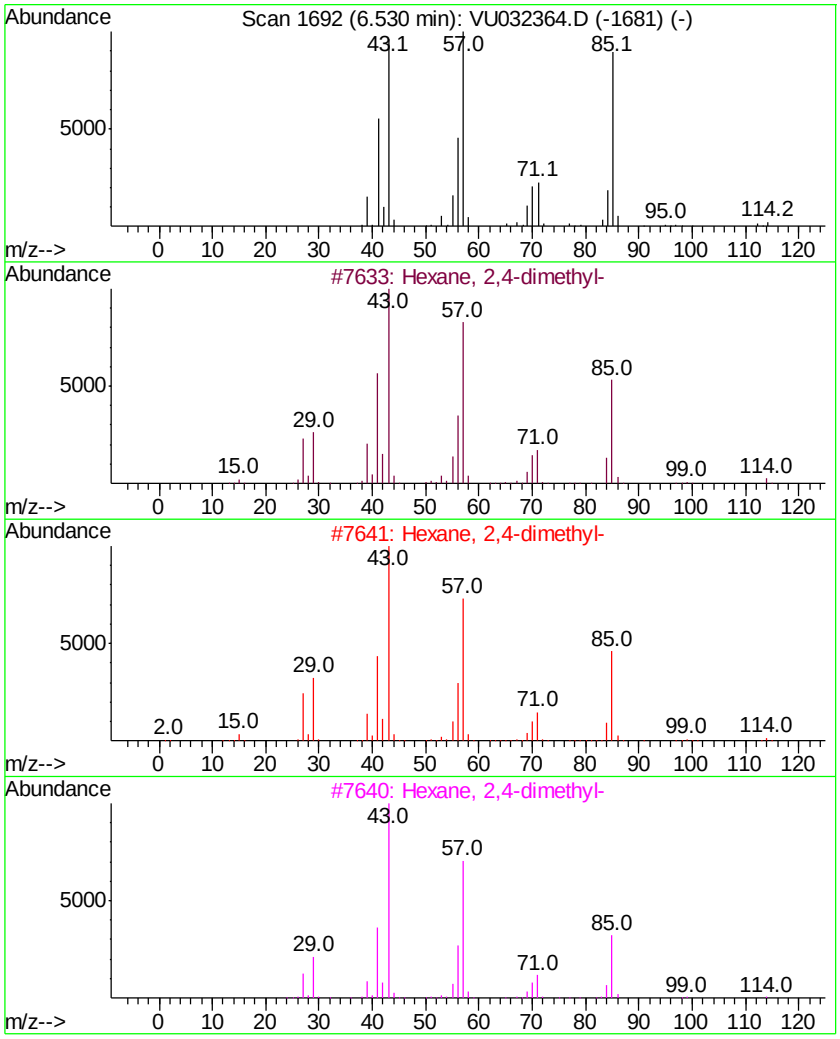
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

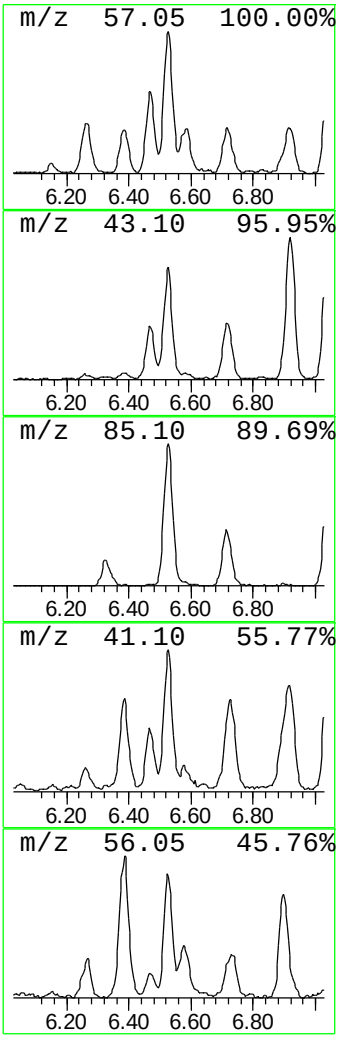
****

Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.53	1.27 ug/L	234321	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	95
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	91
3	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	91
4	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	91
5	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

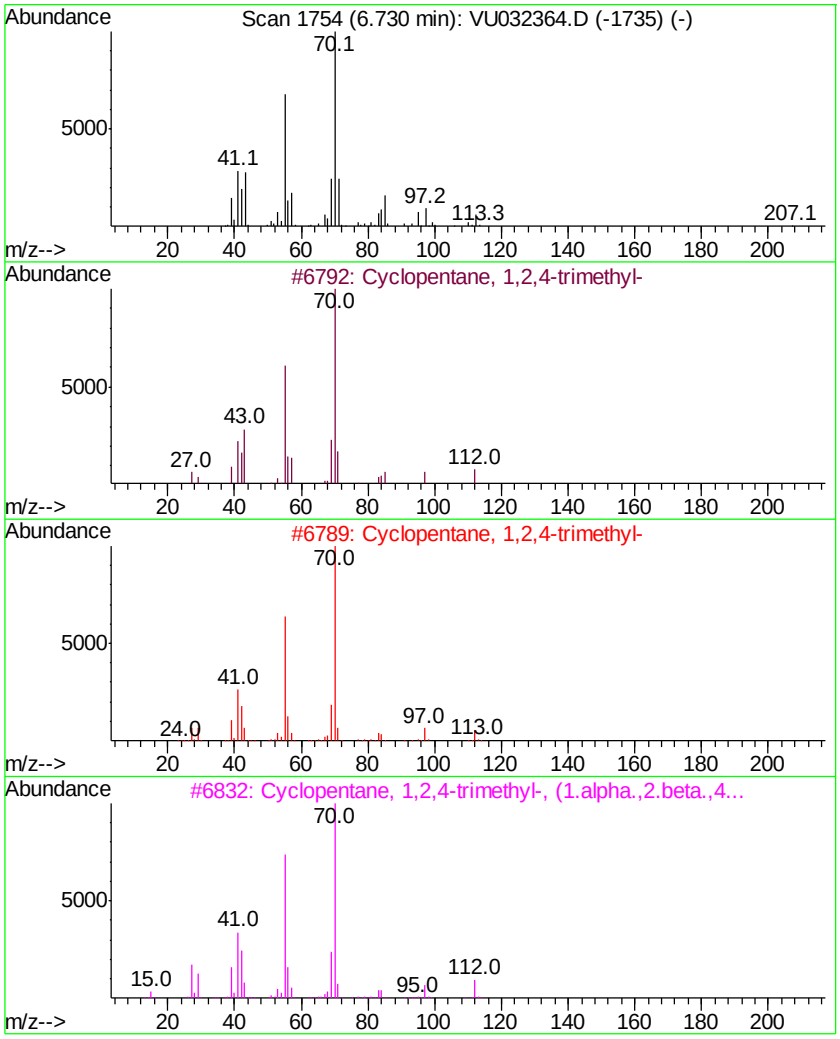
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

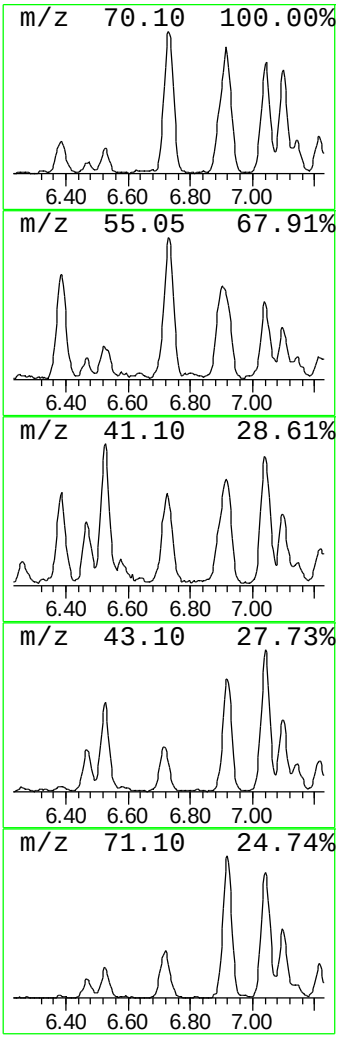
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	1.81 ug/L	333372	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	72
2	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	68
3	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	016883-48-0	64
4	Cyclopentane, 1,2,4-trimethyl-, ...	112	C8H16	004850-28-6	64
5	Tridecane, 3-methylene-	196	C14H28	019780-34-8	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

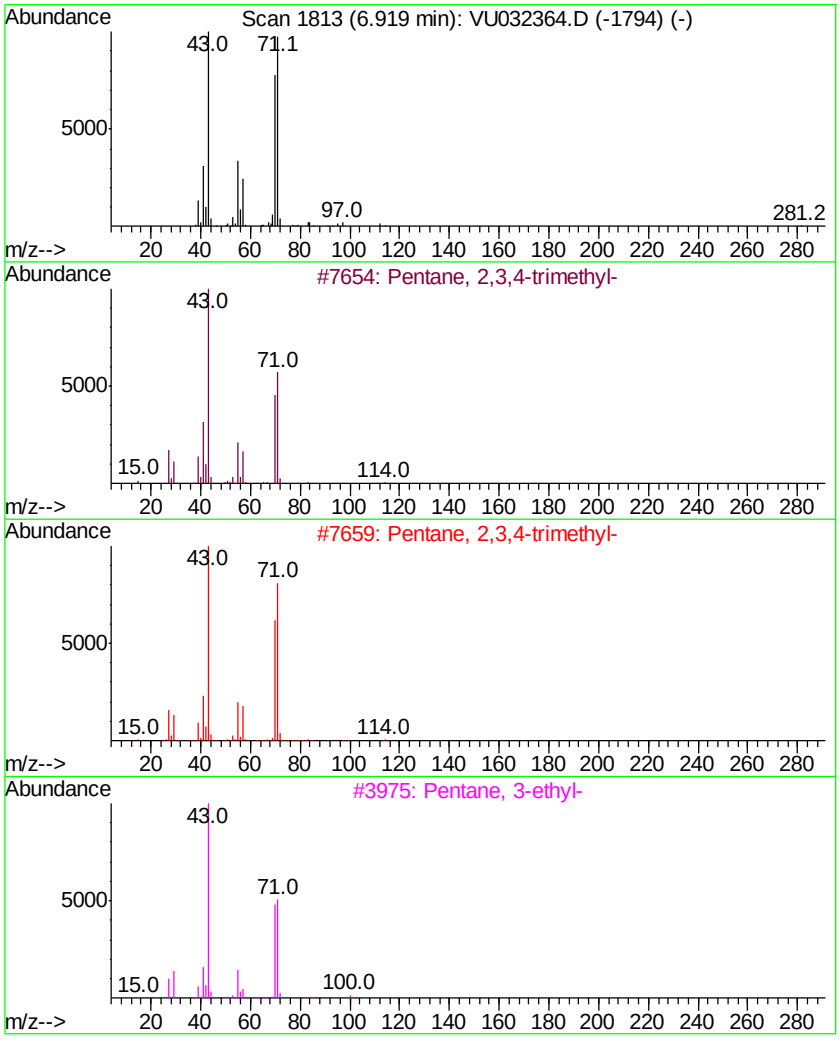
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

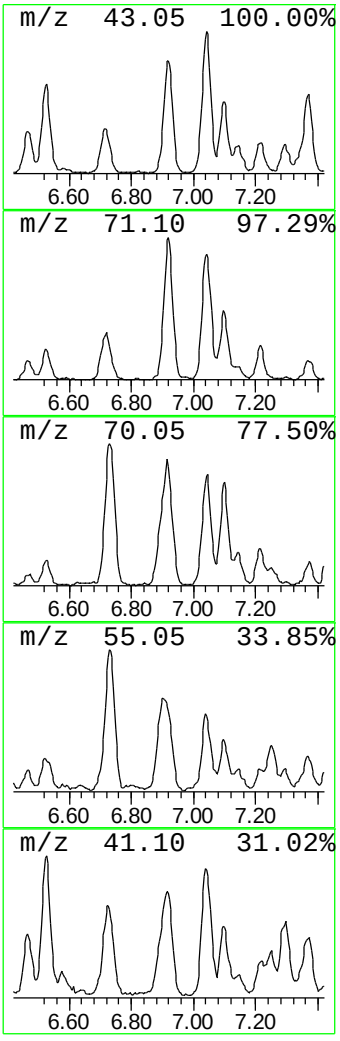
****

Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.92	2.21 ug/L	407226	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3	Pentane, 3-ethyl-	100	C7H16	000617-78-7	78
4	3,3-Dimethyl-2-pentanol	116	C7H16O	019781-24-9	64
5	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	64





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

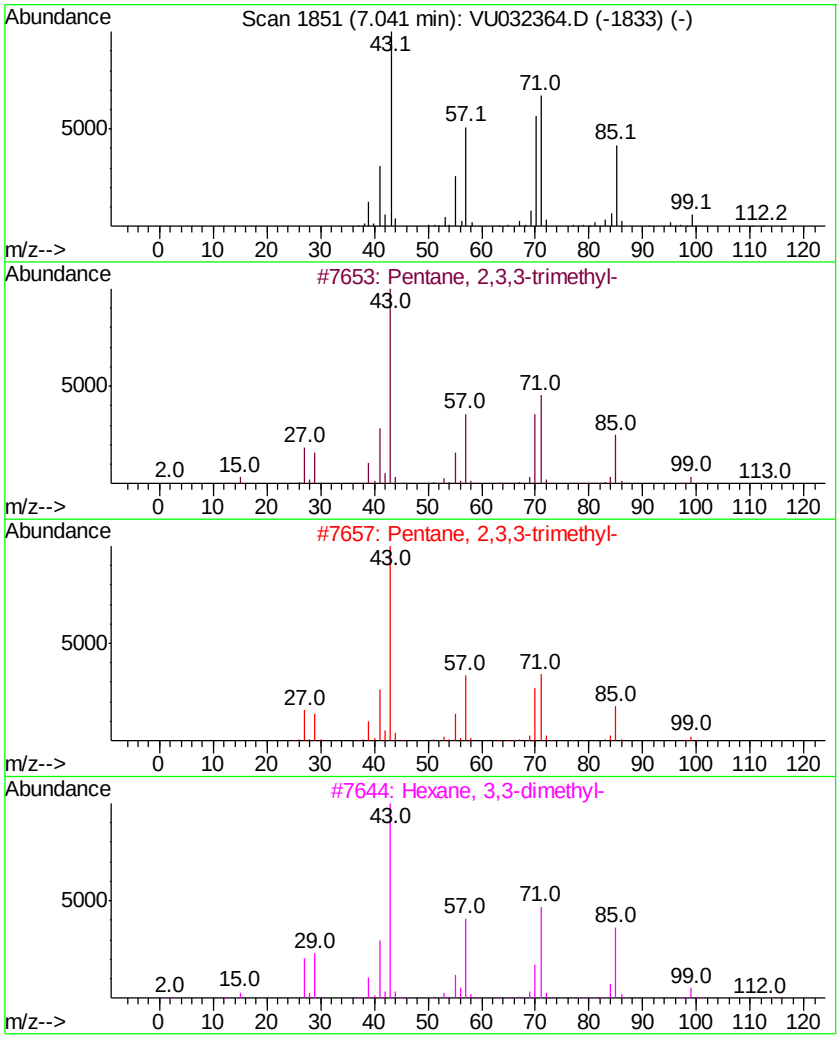
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

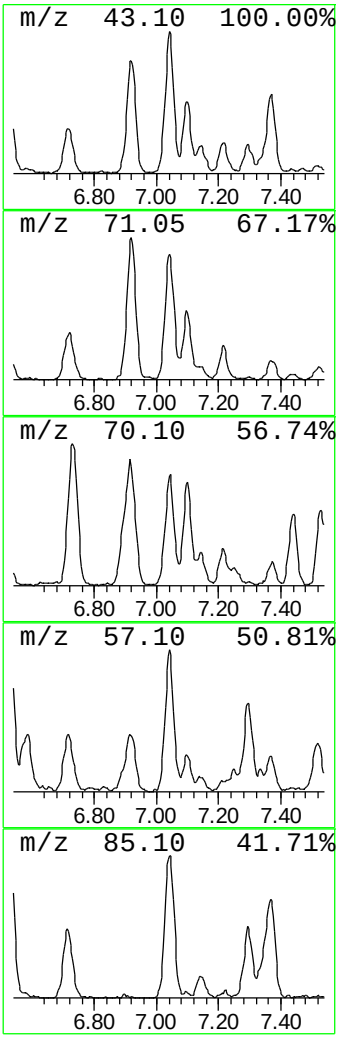
****

Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.04	2.16 ug/L	397719	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	90
2	Pentane, 2,3,3-trimethyl-	114	C8H18	000560-21-4	83
3	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
4	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	72
5	Hexane, 2,3,4-trimethyl-	128	C9H20	000921-47-1	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

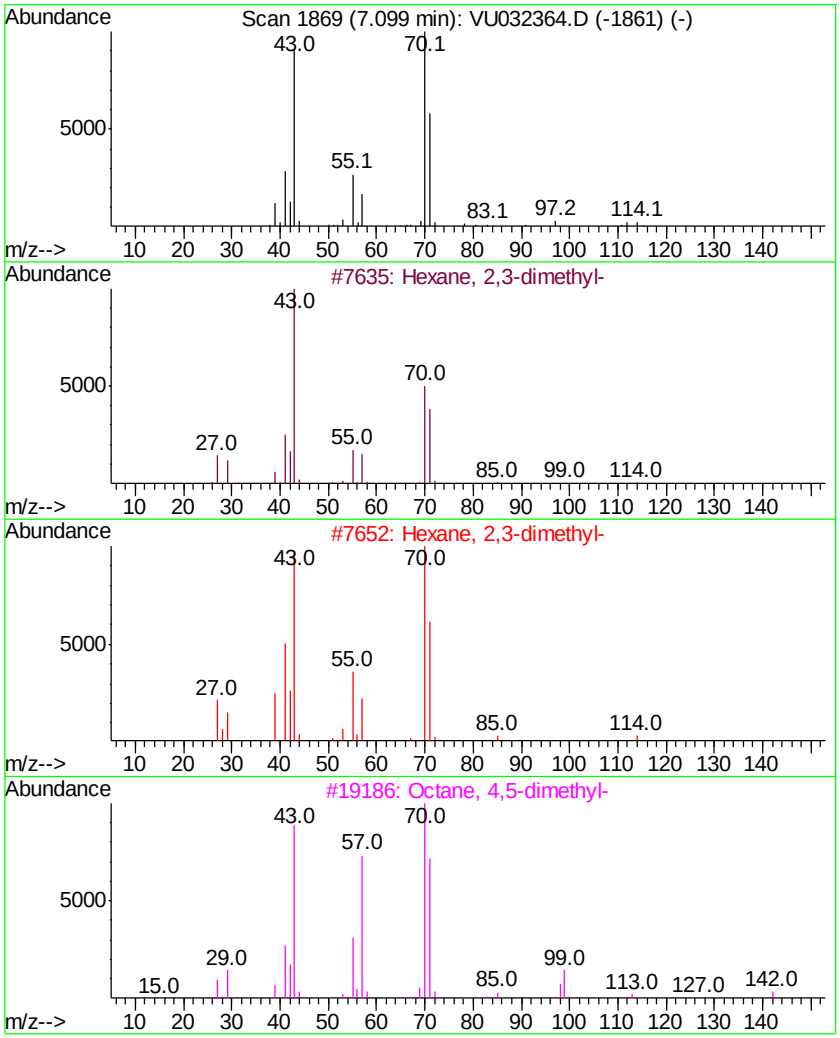
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

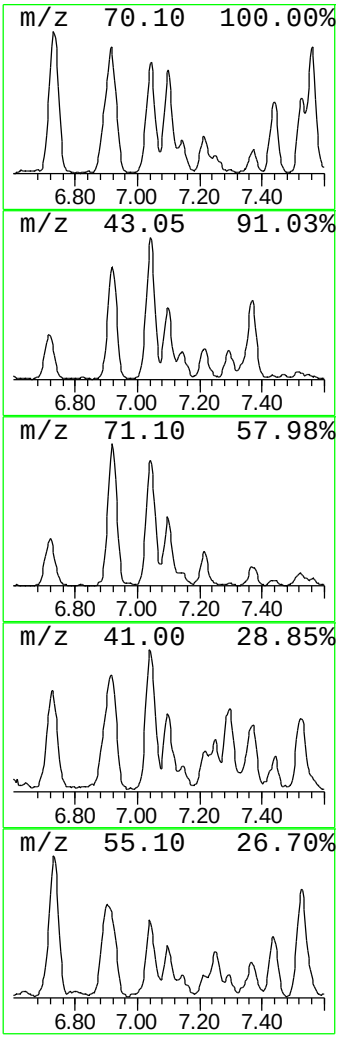
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 55

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.10	0.90 ug/L	166317	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	78
2	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
3	Octane, 4,5-dimethyl-	142	C10H22	015869-96-2	64
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	53
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	53





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

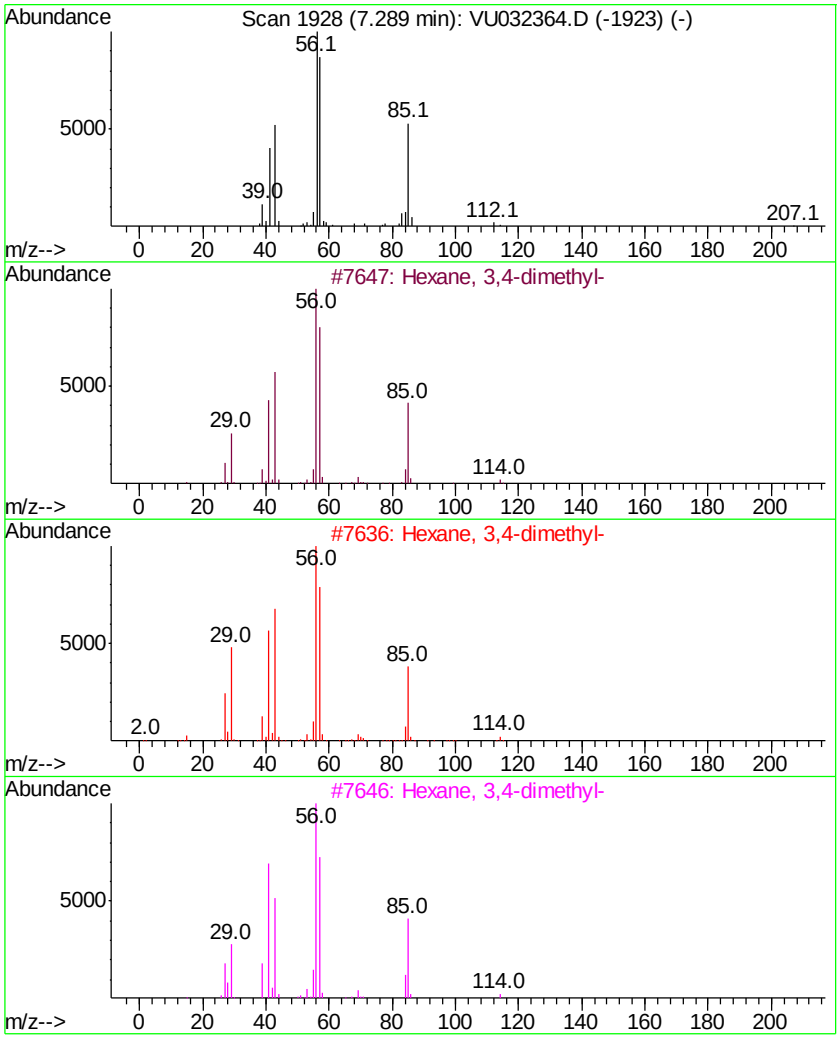
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

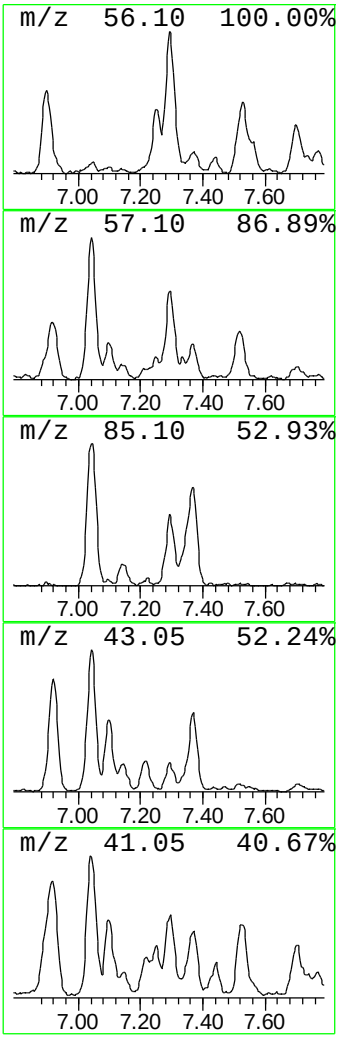
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 62

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.29	0.67 ug/L	122661	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	72
2	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	64
3	Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	56
4	Cyclobutane, 1,2,3,4-tetramethyl-	112	C8H16	069531-57-3	37
5	Hexane, 2-methyl-	100	C7H16	000591-76-4	35





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

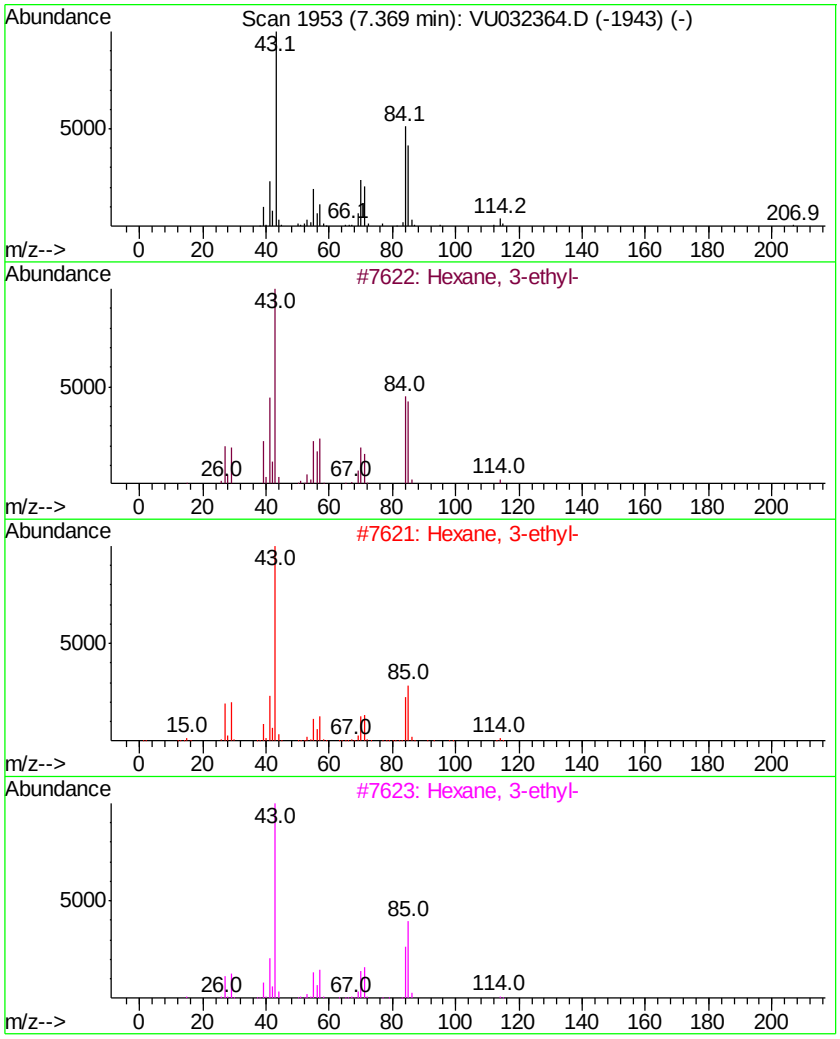
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

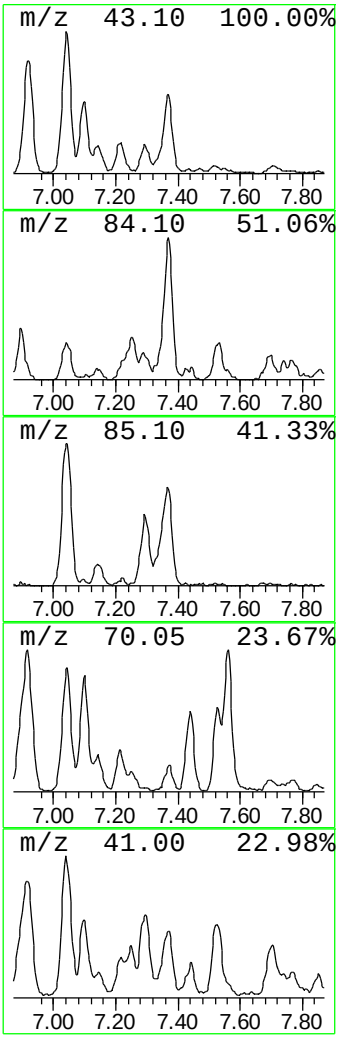
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 56

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.37	0.84 ug/L	154823	1,4-Difluorobenzene	5.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 3-ethyl-	114	C8H18	000619-99-8	83
2	Hexane, 3-ethyl-	114	C8H18	000619-99-8	53
3	Hexane, 3-ethyl-	114	C8H18	000619-99-8	53
4	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	50
5	Heptane, 2,3-dimethyl-	128	C9H20	003074-71-3	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

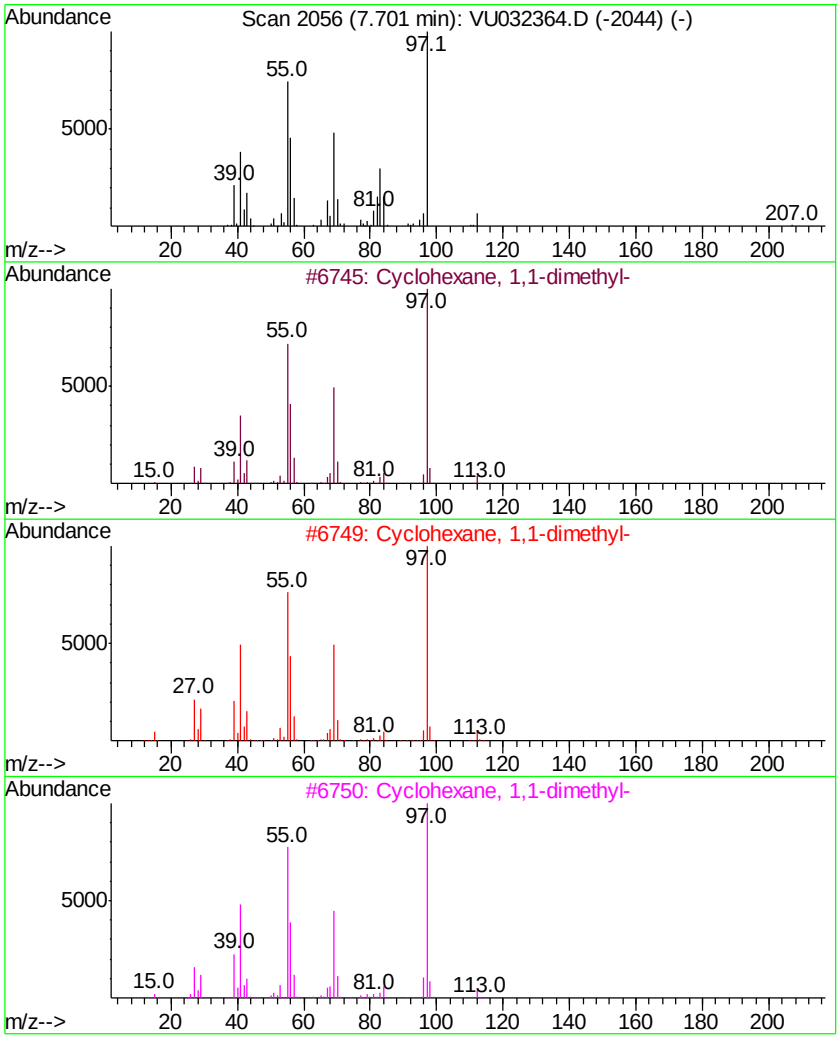
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

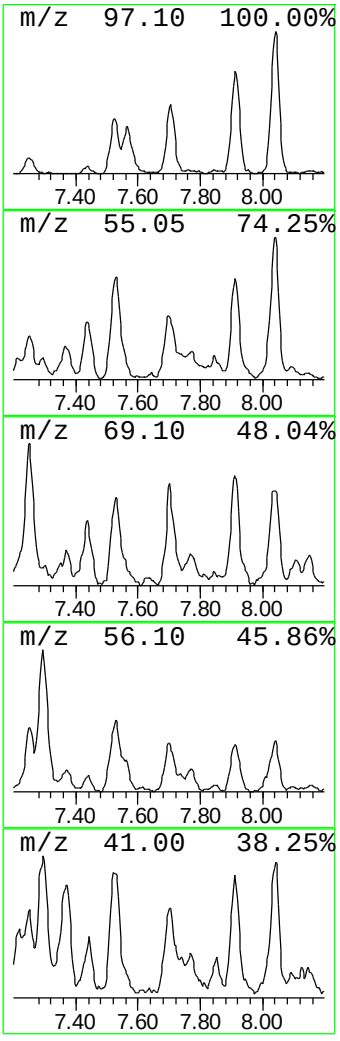
****

Peak Number 24 (DEL) Alkane: Cyclic7.70 Concentration Rank 67

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.70	0.61 ug/L	135092	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	81
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	76
4	Sulfurous acid, cyclohexylmethyl...	332	C18H36O3S	1000309-21-9	53
5	1-Octene, 6-methyl-	126	C9H18	013151-10-5	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

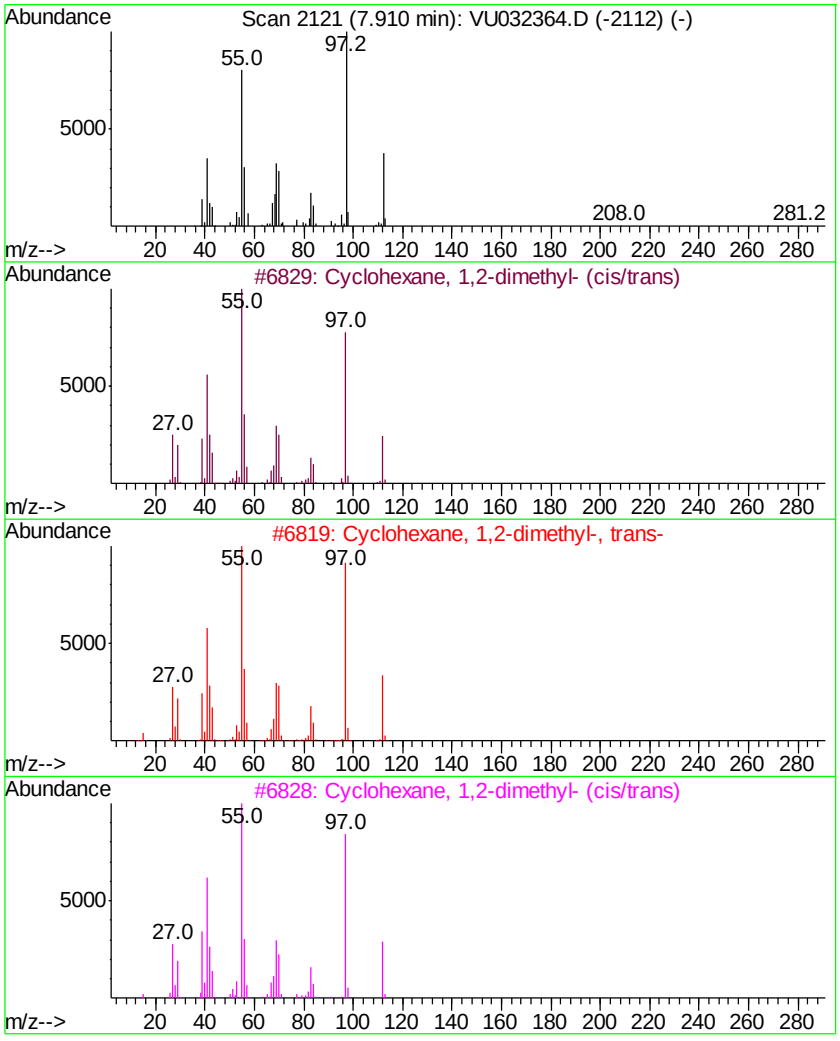
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

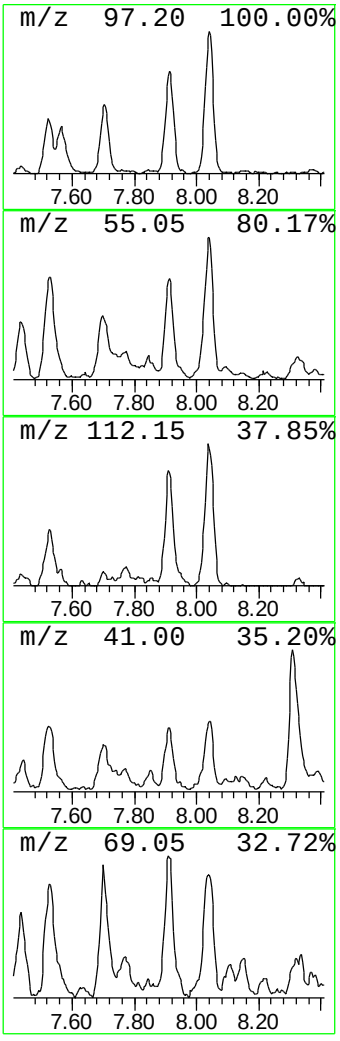
****

Peak Number 25 (DEL) Alkane: Cyclic7.91 Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	0.91 ug/L	203585	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, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

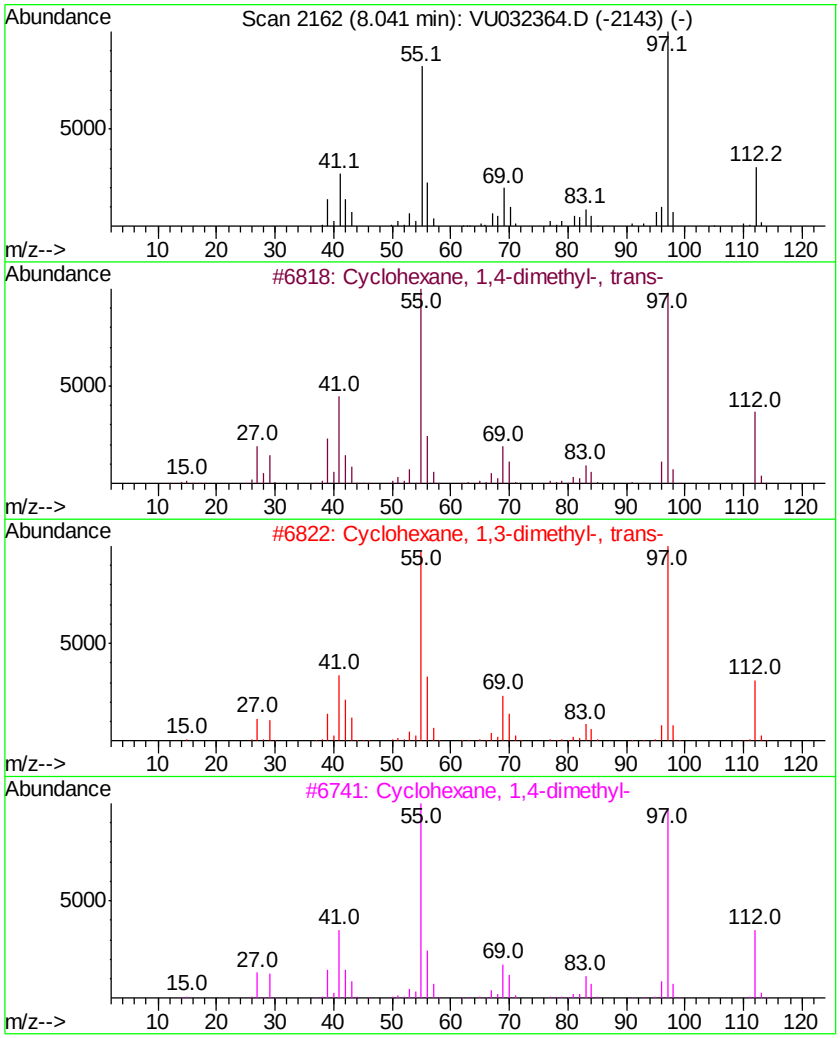
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

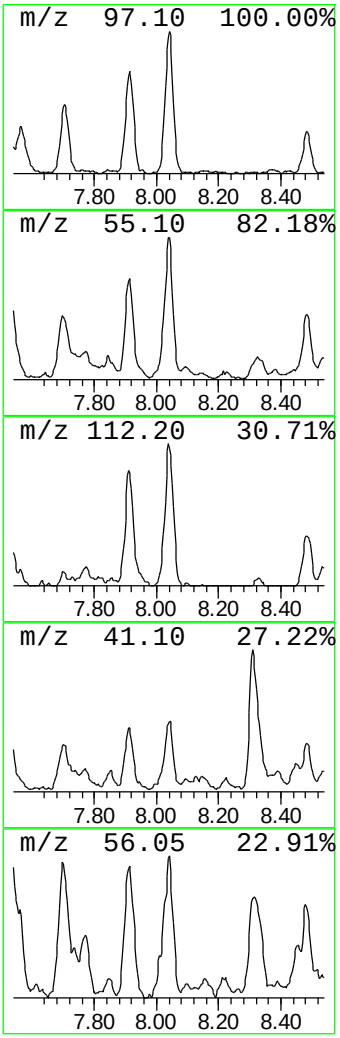
****

Peak Number 26 (DEL) Alkane: Cyclic8.04 Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.04	1.07 ug/L	238740	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	96
2	Cyclohexane, 1,3-dimethyl-, trans-	112	C8H16	002207-03-6	95
3	Cyclohexane, 1,4-dimethyl-	112	C8H16	000589-90-2	94
4	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	94
5	Cyclohexane, 1,4-dimethyl-, trans-	112	C8H16	002207-04-7	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

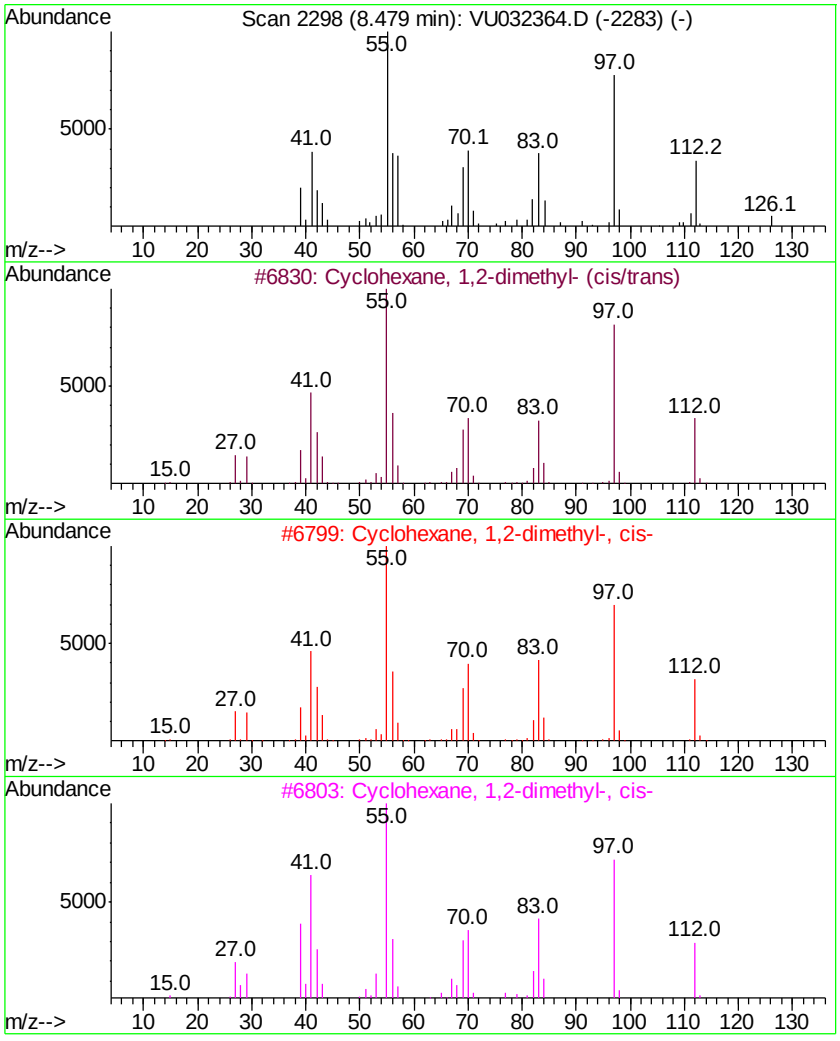
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

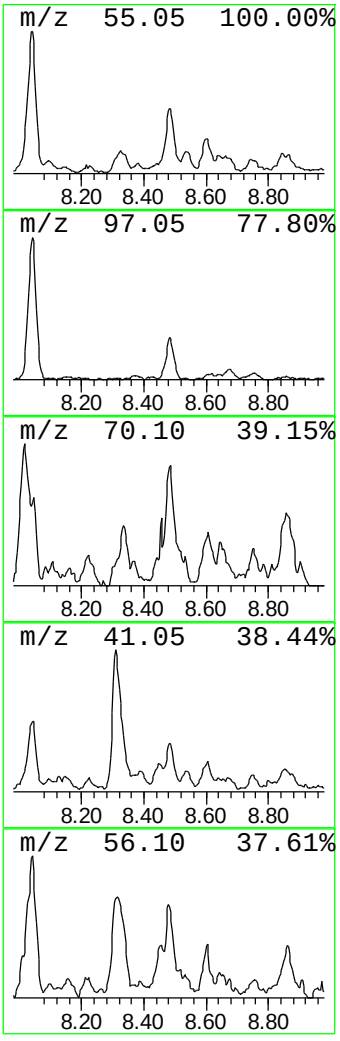
****

Peak Number 27 (DEL) Alkane: Cyclic8.48 Concentration Rank 71

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.48	0.56 ug/L	124469	Chlorobenzene-d5	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,2-dimethyl- (cis/...	112	C8H16	000583-57-3	94
2	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	93
3	Cyclohexane, 1,2-dimethyl-, cis-	112	C8H16	002207-01-4	83
4	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	81
5	Cyclohexane, 1,2-dimethyl-, trans-	112	C8H16	006876-23-9	81





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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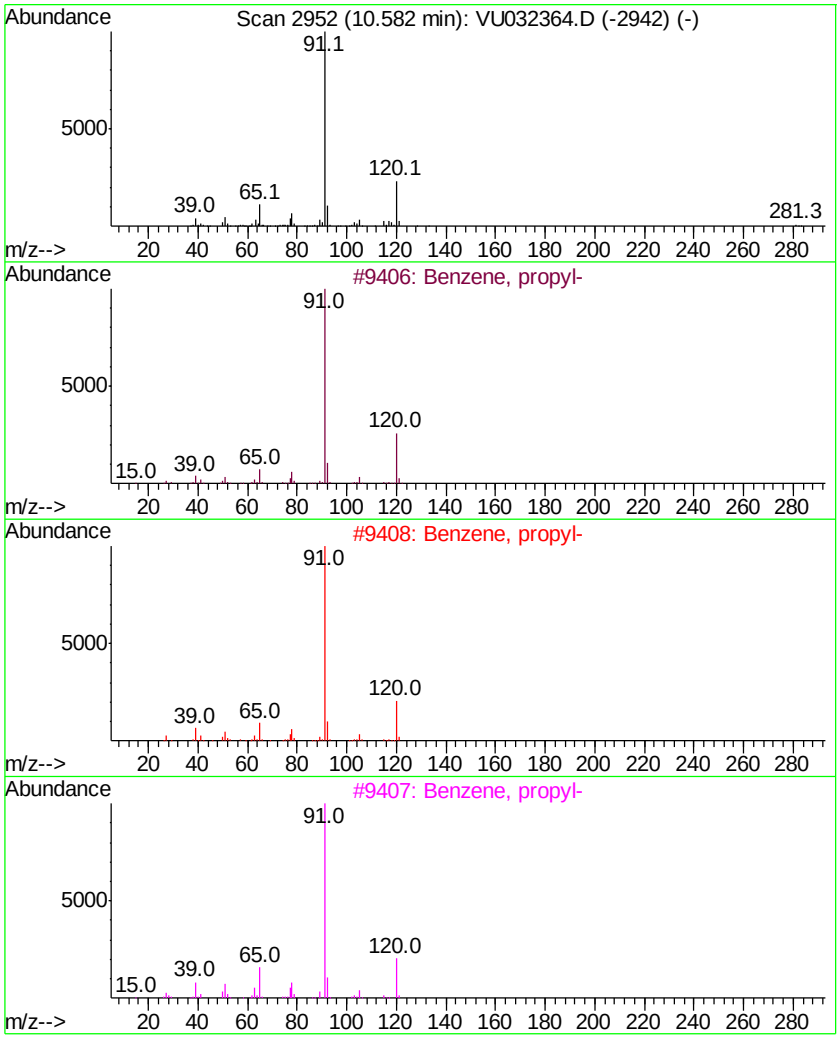
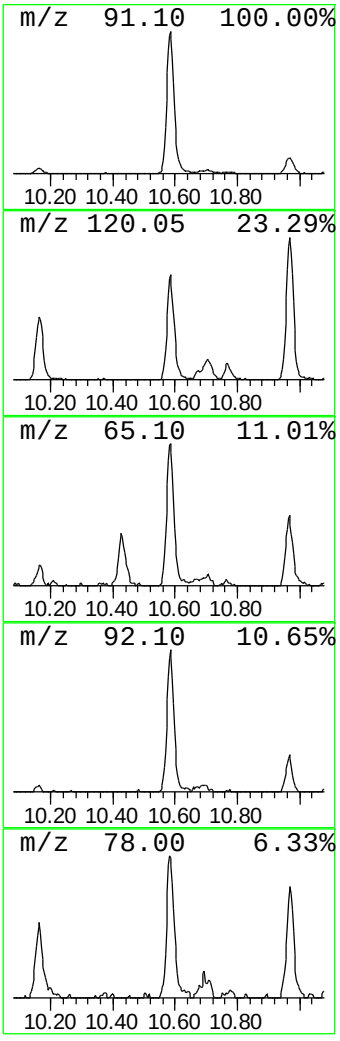
Peak Number 28 Benzene, propyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	1.36 ug/L	308471	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, propyl-	120	C9H12	000103-65-1	87
2	Benzene, propyl-	120	C9H12	000103-65-1	87
3	Benzene, propyl-	120	C9H12	000103-65-1	87
4	Ethanol, 2-[(phenylmethyl)amino]-	151	C9H13NO	000104-63-2	64
5	1,2-Ethanediamine, N-(phenylmeth...	150	C9H14N2	004152-09-4	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

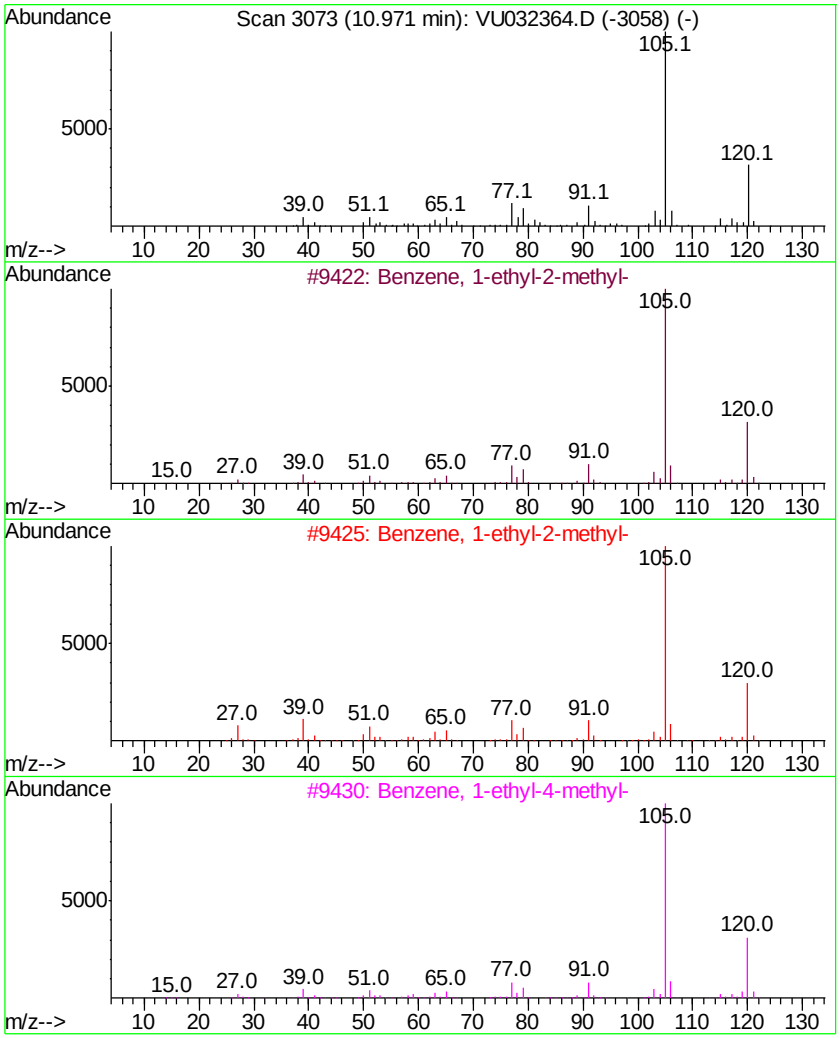
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

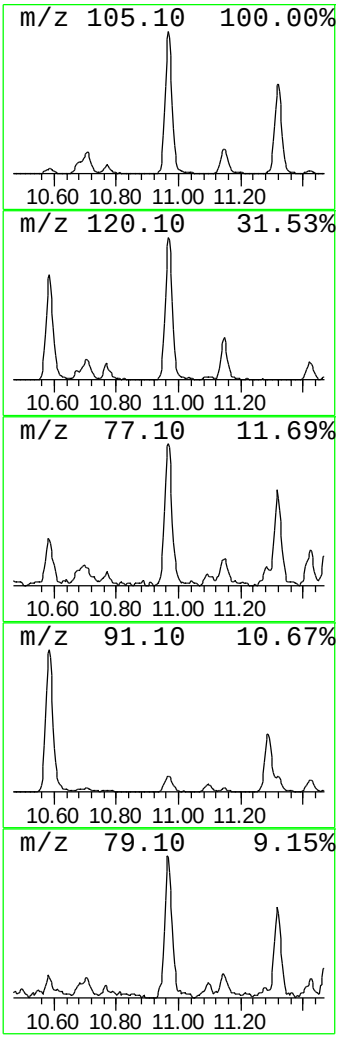
****

Peak Number 29 Benzene, 1-ethyl-2-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	1.74 ug/L	394567	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, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

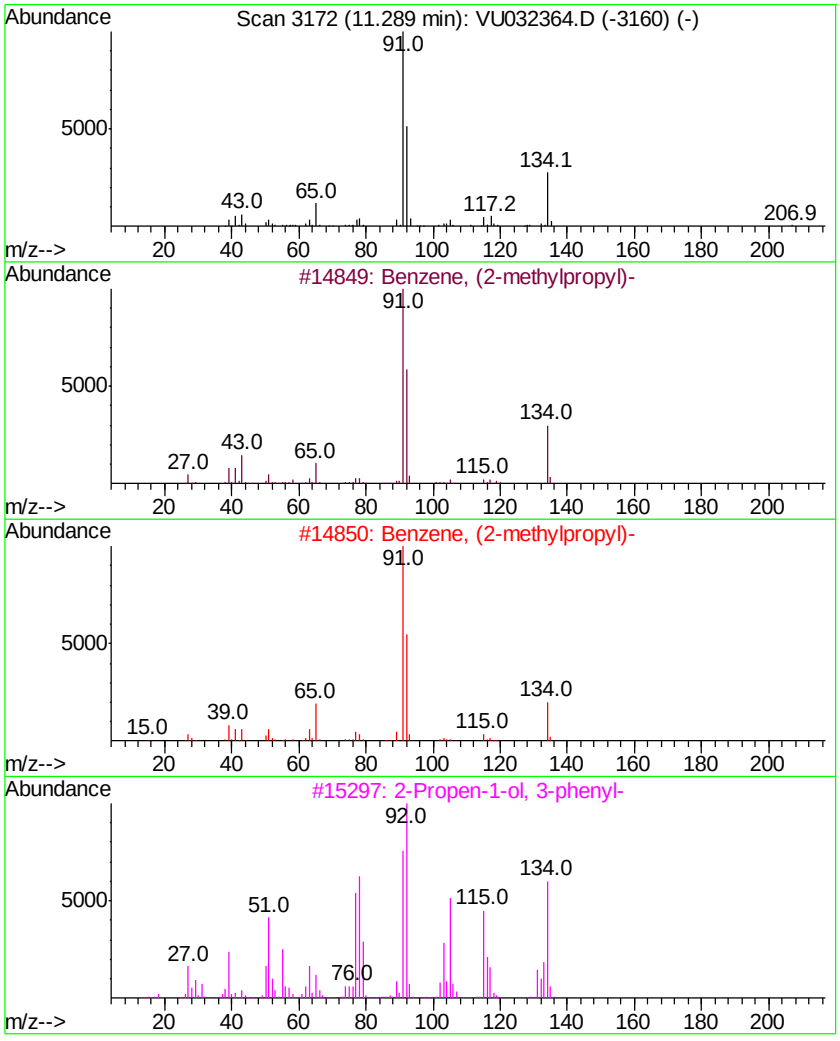
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

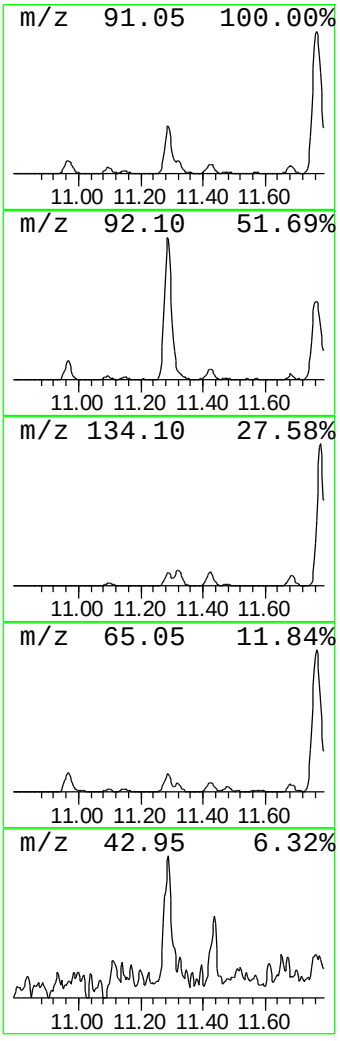
****

Peak Number 30 Benzene, (2-methylpropyl)- Concentration Rank 63

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	0.67 ug/L	150655	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	80
2	Benzene, (2-methylpropyl)-	134	C10H14	000538-93-2	68
3	2-Propen-1-ol, 3-phenyl-	134	C9H10O	000104-54-1	53
4	Benzene, (2-methylpentyl)-	162	C12H18	039916-61-5	50
5	Benzene, (2-methylpentyl)-	162	C12H18	039916-61-5	50





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

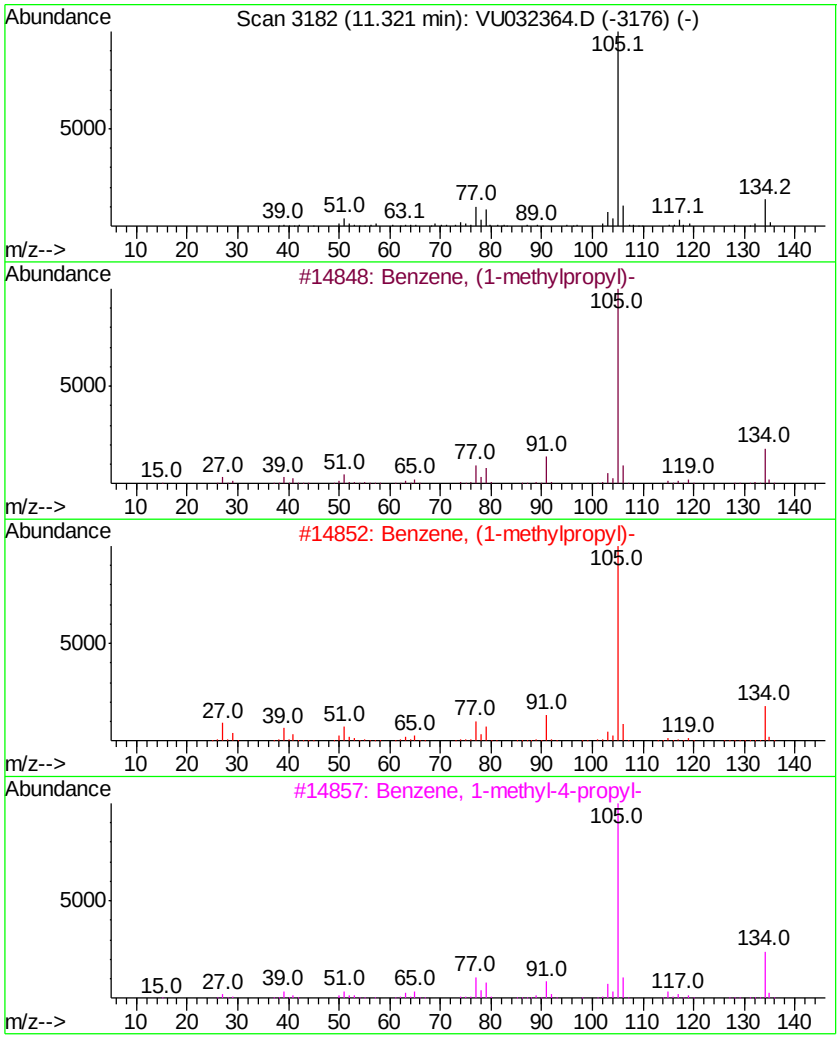
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

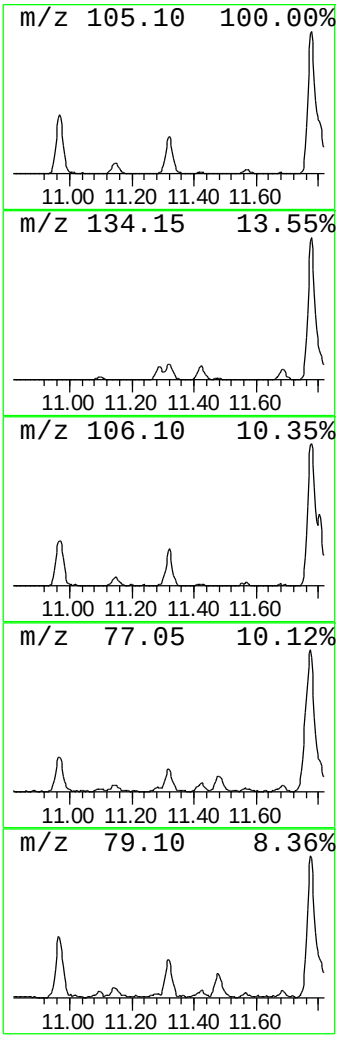
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 31 Benzene, (1-methylpropyl)- Concentration Rank 53

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	0.92 ug/L	208537	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
2	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	80
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	78
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	78
5	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	78





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

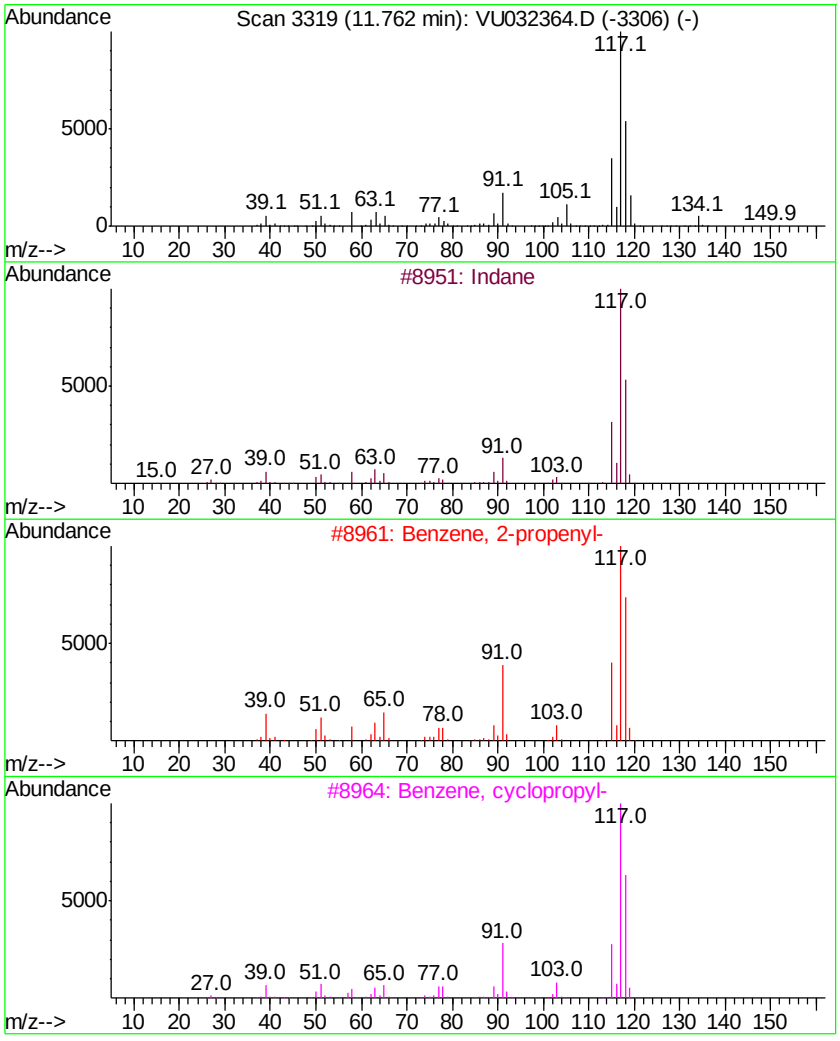
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

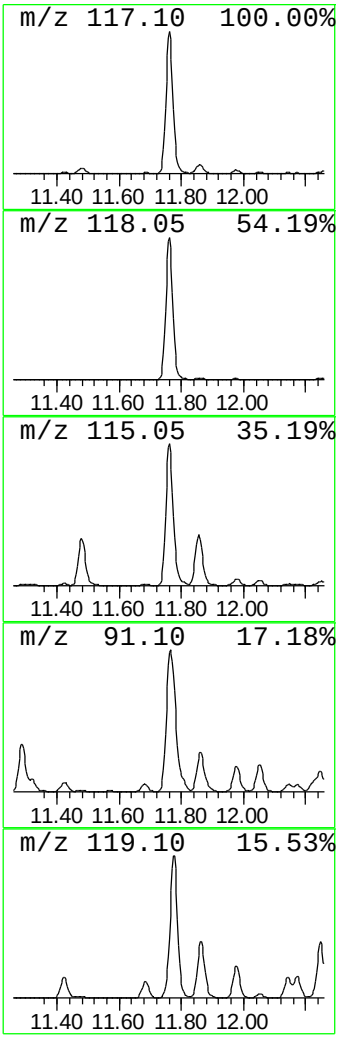
****

Peak Number 34 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	19.15 ug/L	4337020	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	70
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	70
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	70
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	62
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	62





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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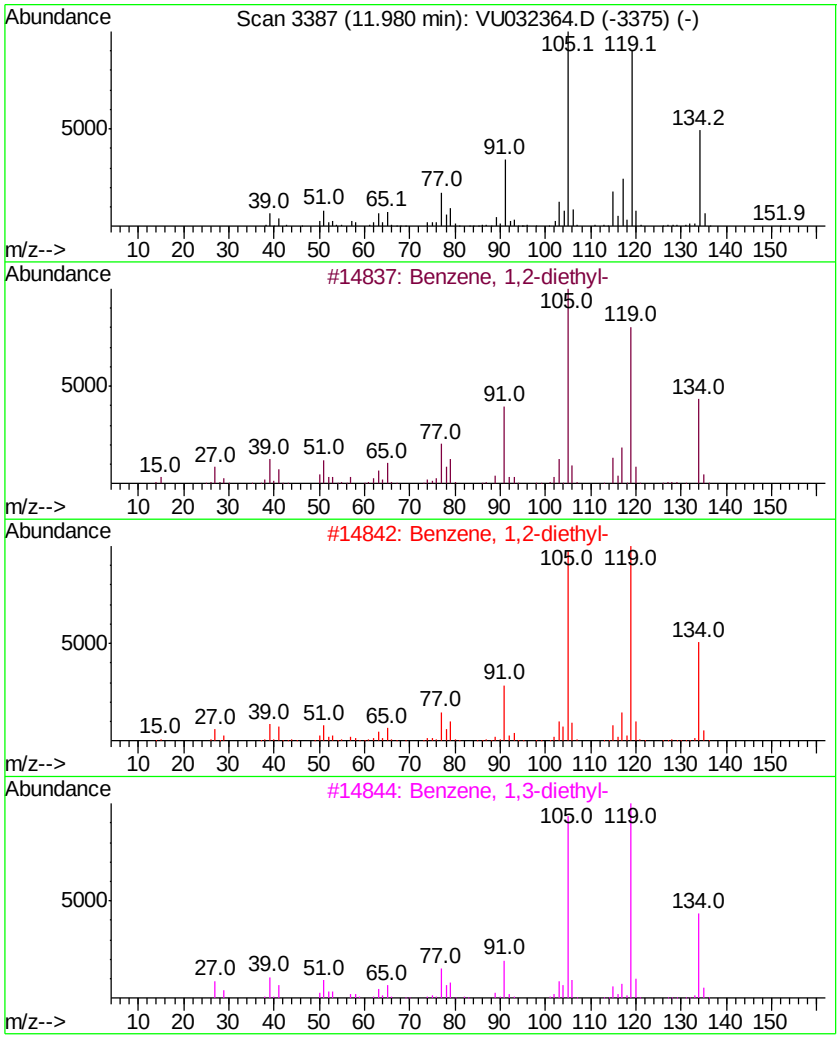
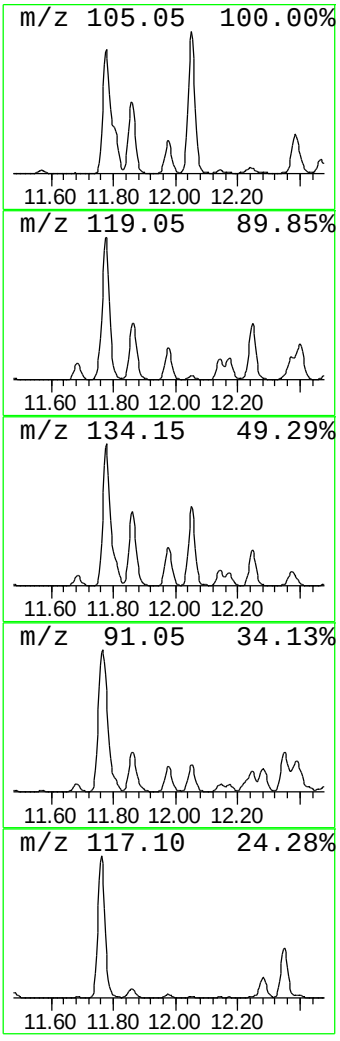
Peak Number 35 Benzene, 1,2-diethyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	1.87 ug/L	422728	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	94
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	90
5	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

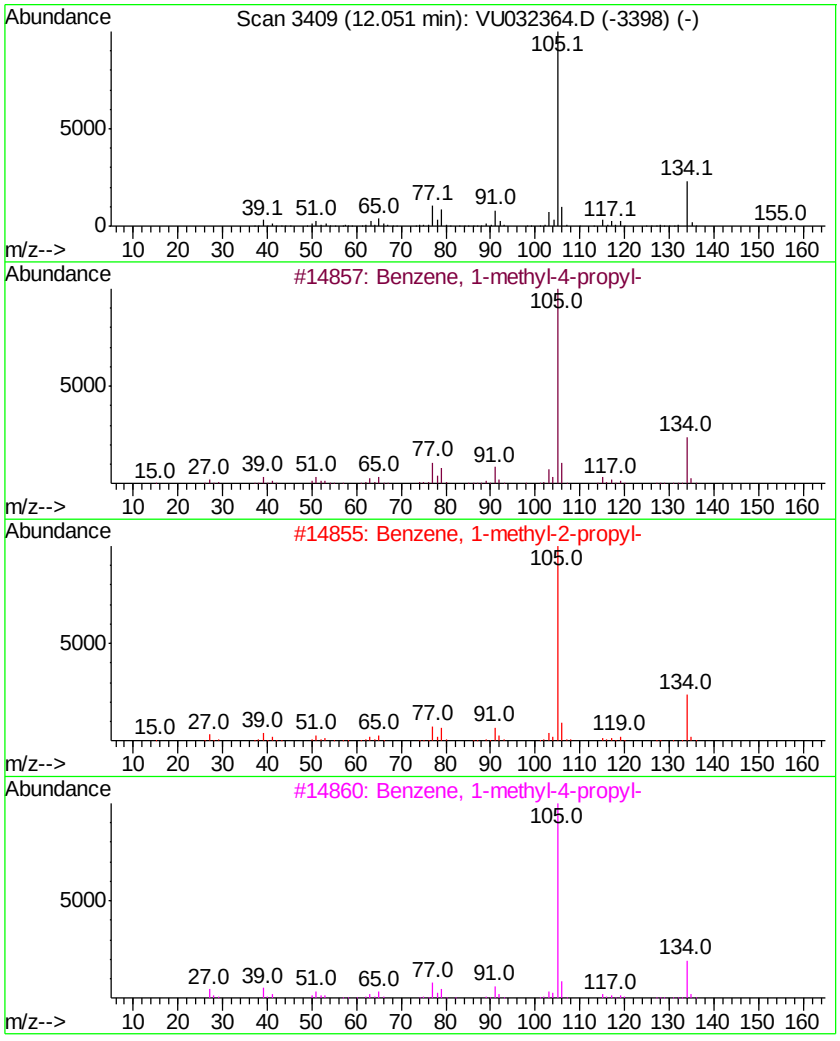
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

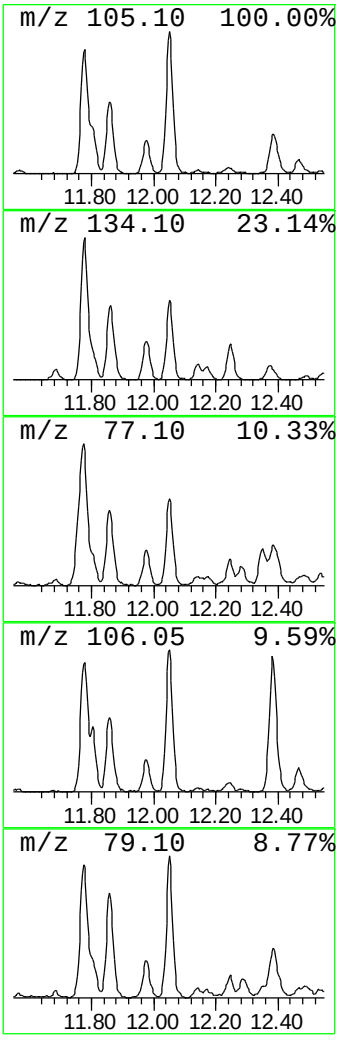
****

Peak Number 36 Benzene, 1-methyl-4-propyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	3.60 ug/L	816140	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-4-propyl-	134	C10H14	001074-55-1	91
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
5	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

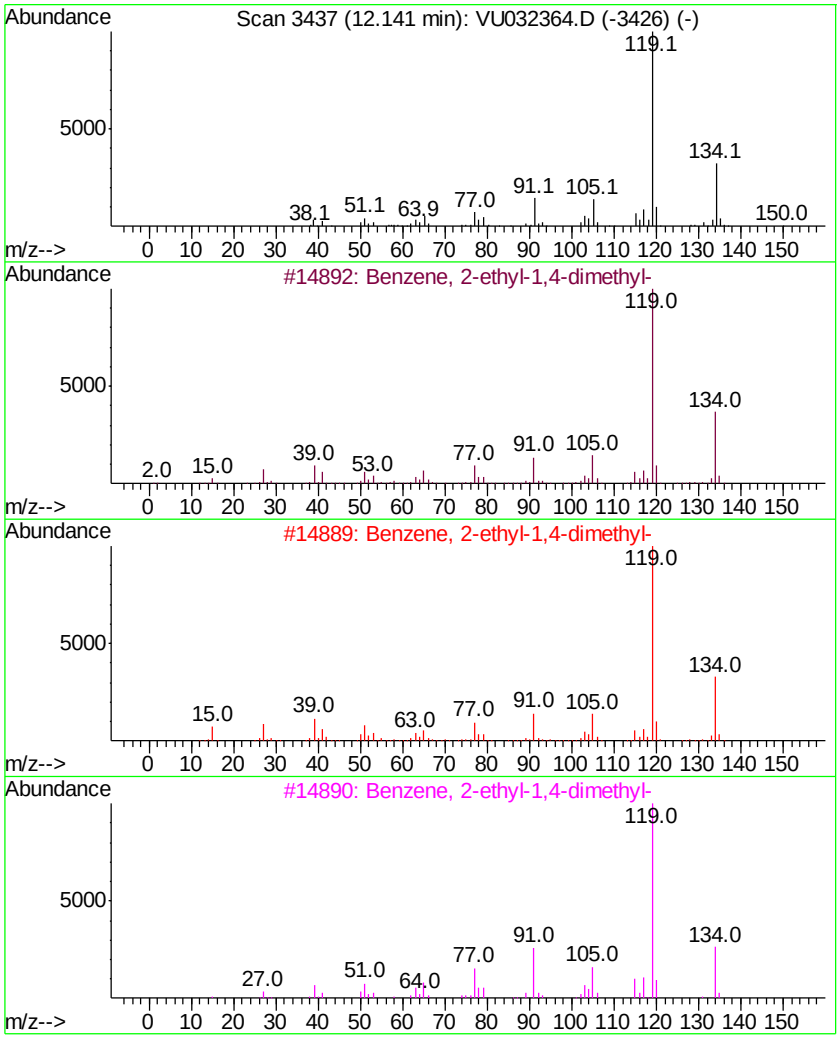
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

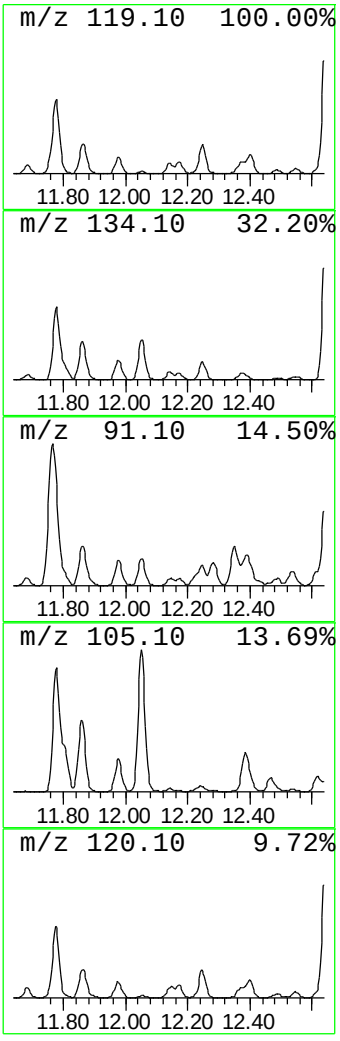
****

Peak Number 37 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 69

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	0.60 ug/L	136741	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	97
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	96
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	95





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

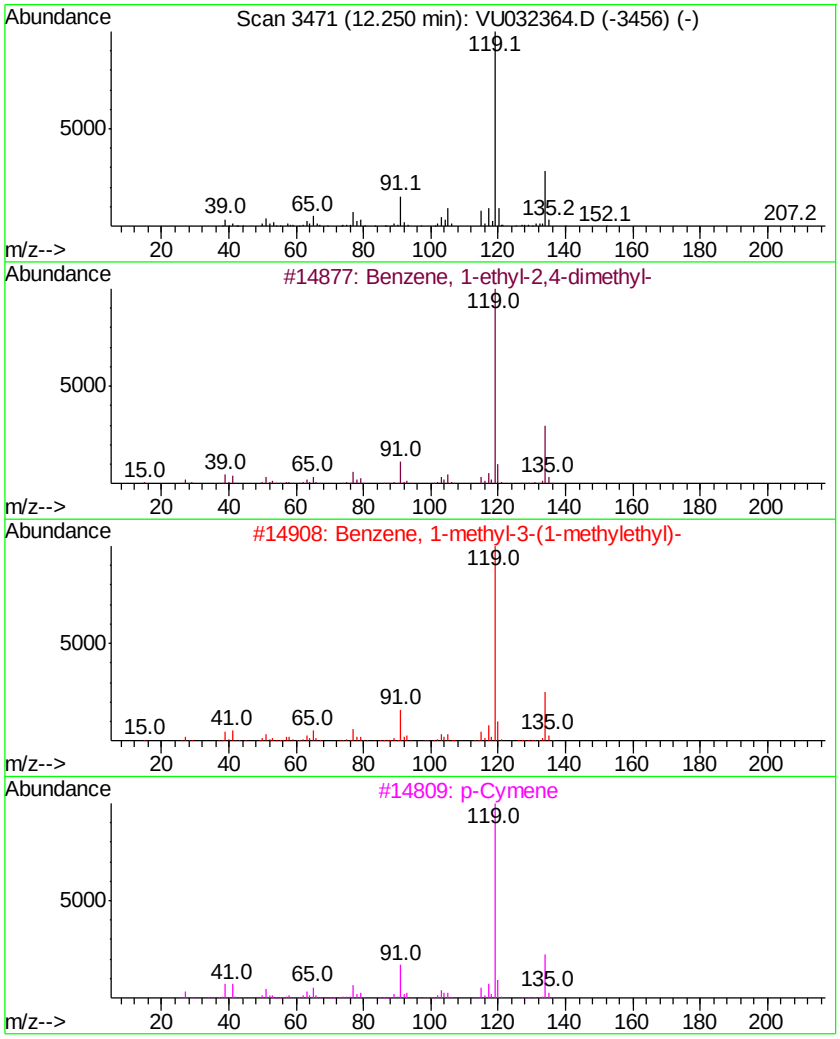
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

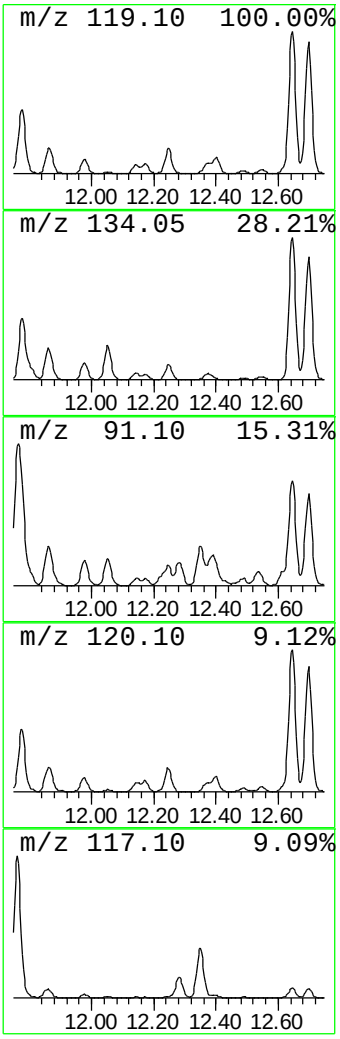
****

Peak Number 38 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	1.60 ug/L	363400	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	95
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	p-Cymene	134	C10H14	000099-87-6	95
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
5	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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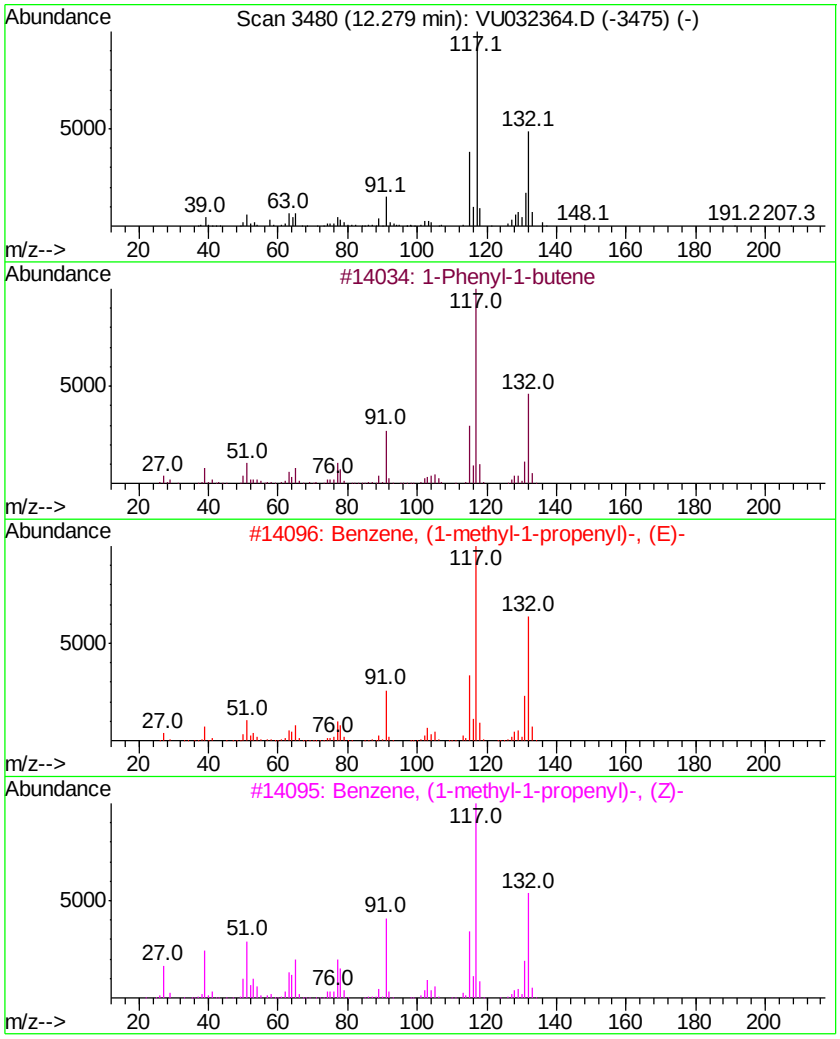
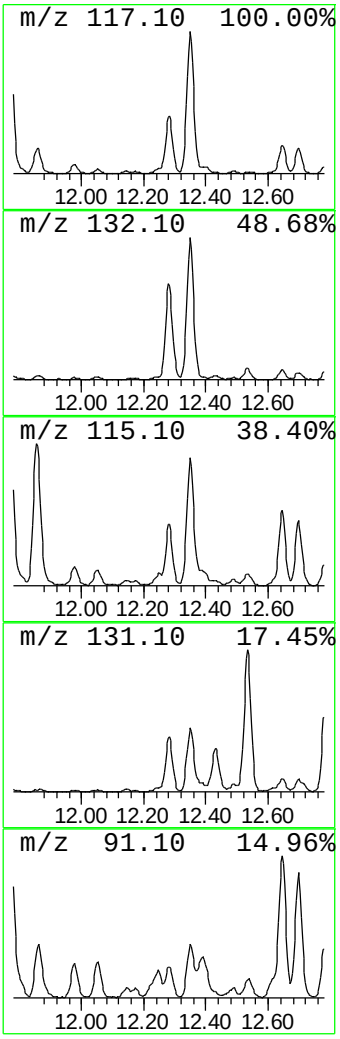
Peak Number 39 1-Phenyl-1-butene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	2.13 ug/L	482300	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	91
2	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91
3	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000767-99-7	91
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	91
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

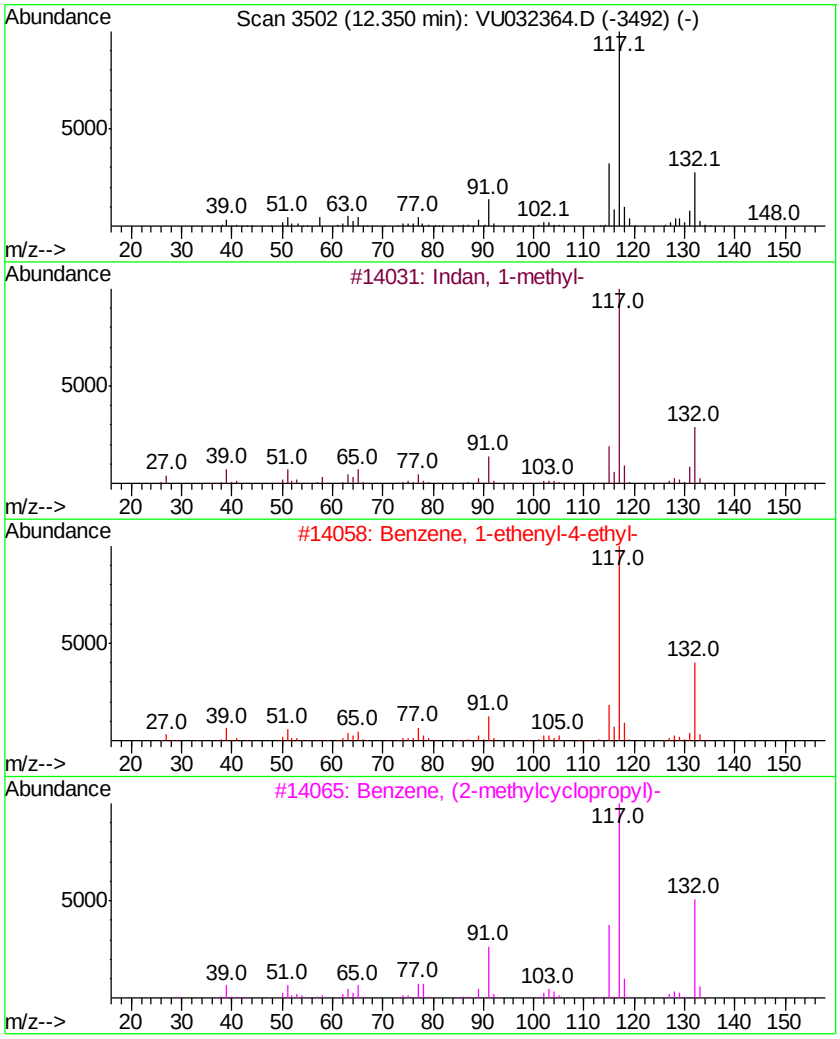
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

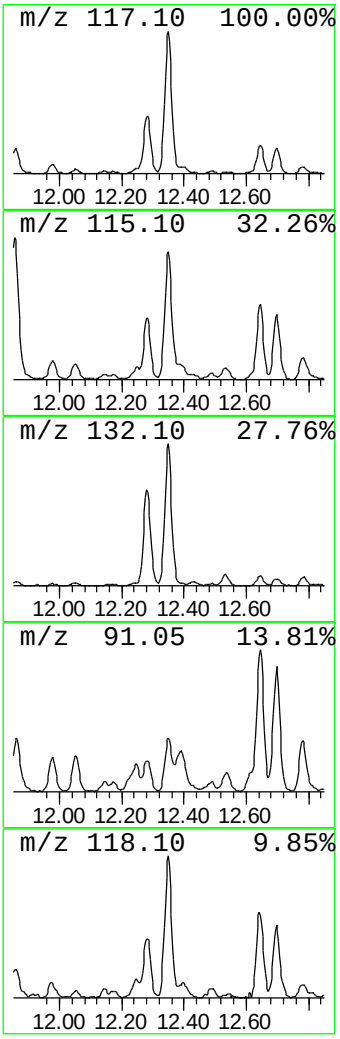
****

Peak Number 40 Indan, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	4.41 ug/L	999668	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	87
2	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	87
3	Benzene, (2-methylcyclopropyl)-	132	C10H12	1000327-39-0	87
4	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	87
5	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	83





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

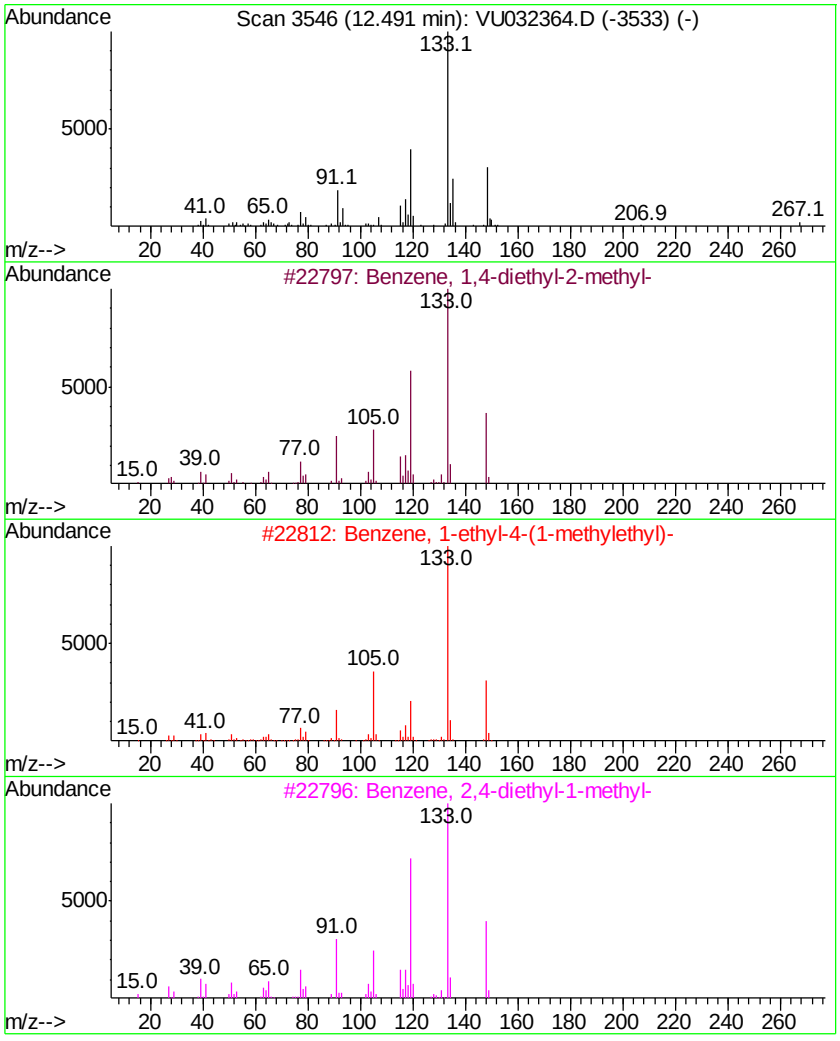
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

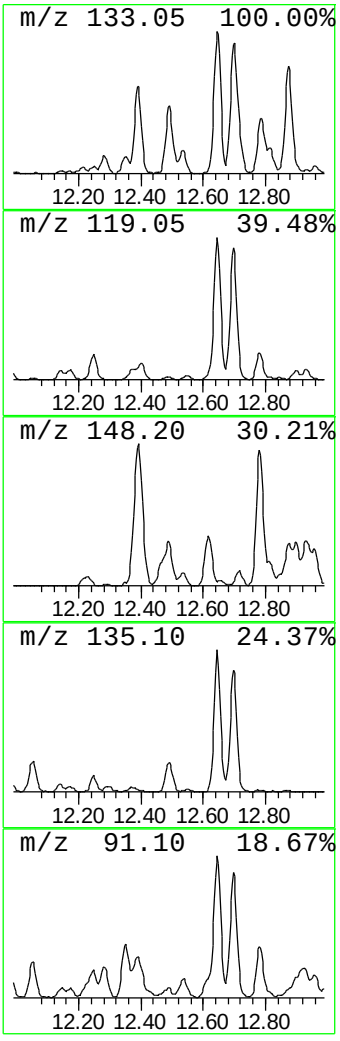
****

Peak Number 41 Benzene, 1,4-diethyl-2-methyl- Concentration Rank 61

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	0.68 ug/L	153594	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	87
2	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	64
3	Benzene, 2,4-diethyl-1-methyl-	148	C11H16	001758-85-6	58
4	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	53
5	Benzene, 1-ethyl-3-(1-methylethyl)-	148	C11H16	004920-99-4	53





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

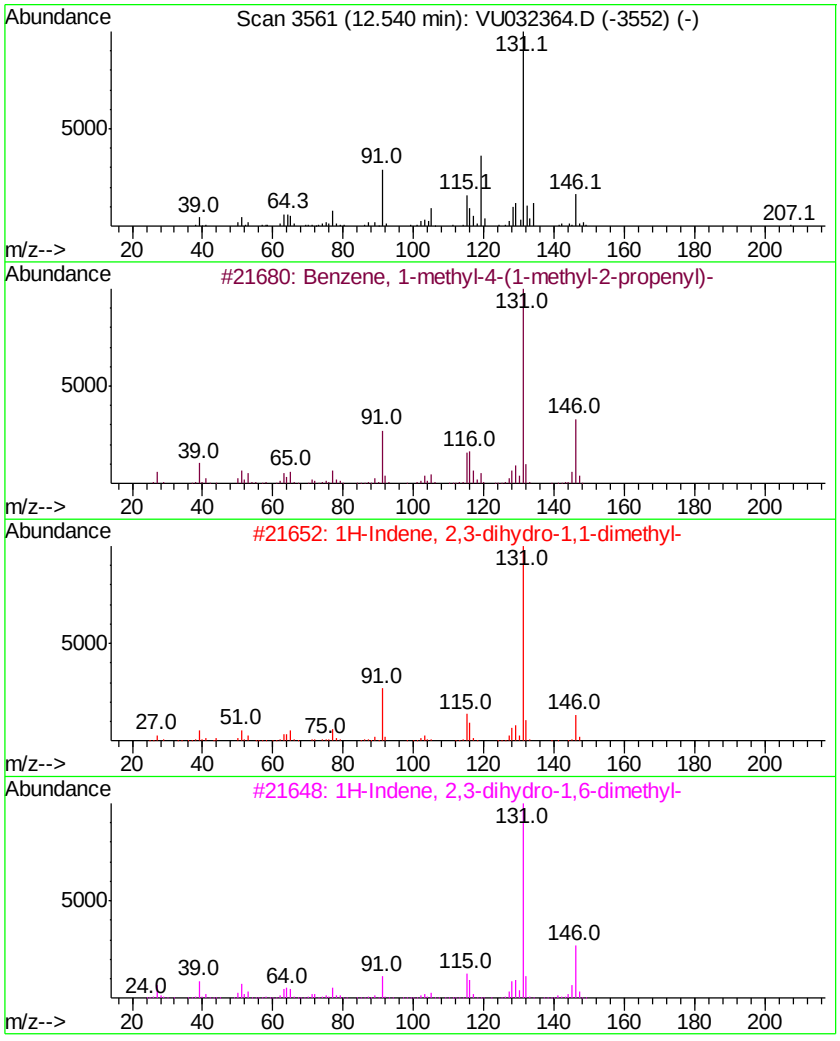
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

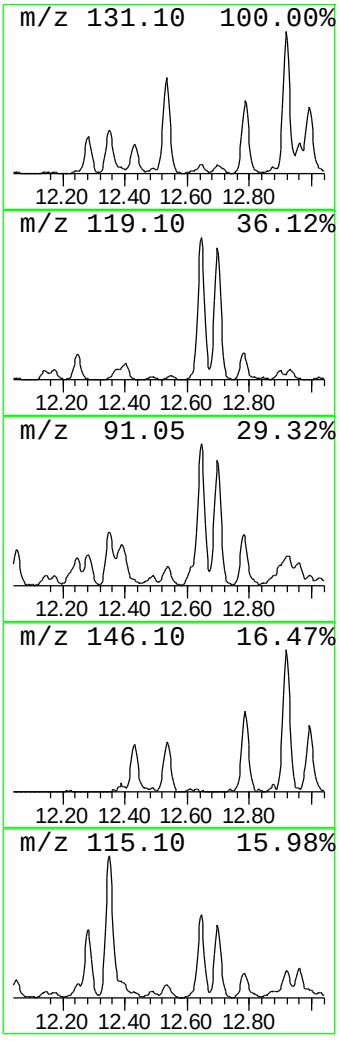
****

Peak Number 42 Benzene, 1-methyl-4-(1-meth... Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	1.10 ug/L	250245	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	83
2	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	81
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	81
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	81
5	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	81





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Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

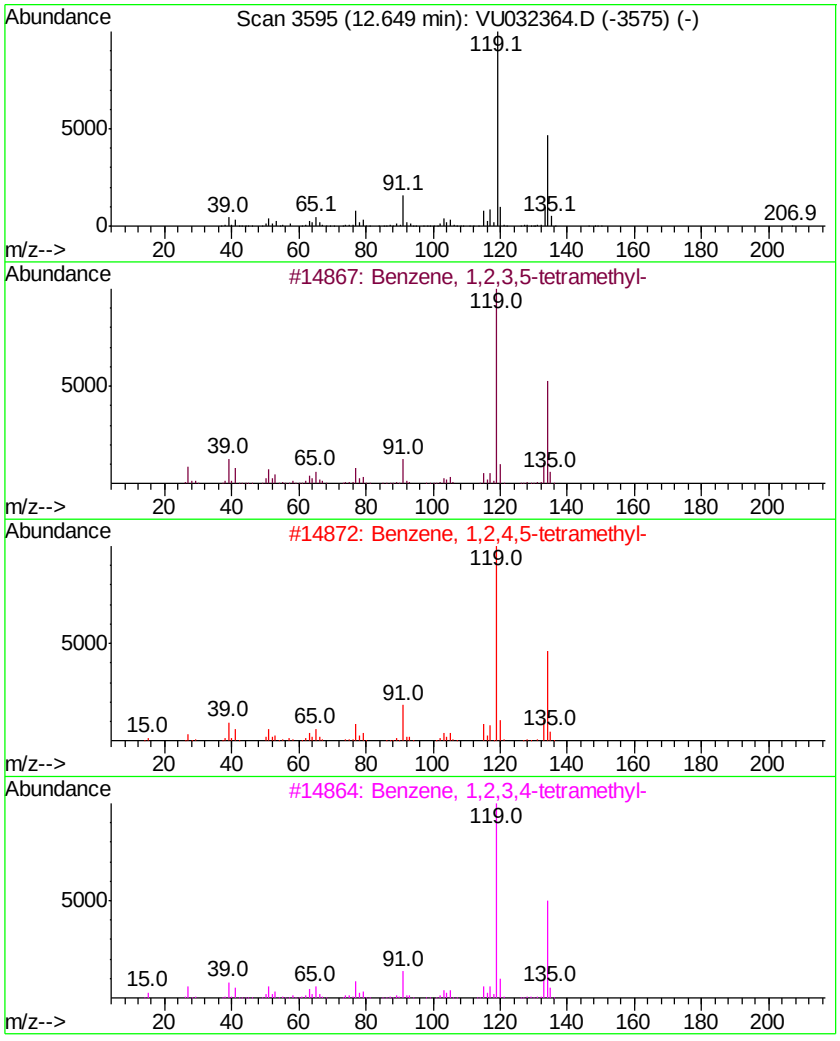
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

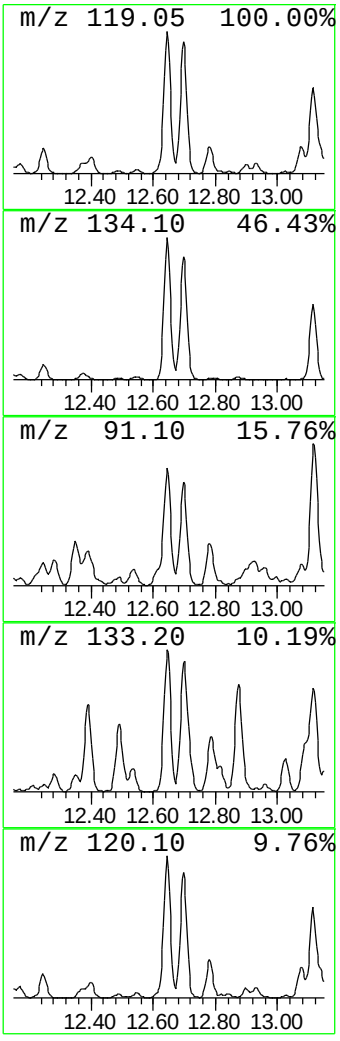
****

Peak Number 43 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	10.13 ug/L	2295400	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, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	97
5	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97





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Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

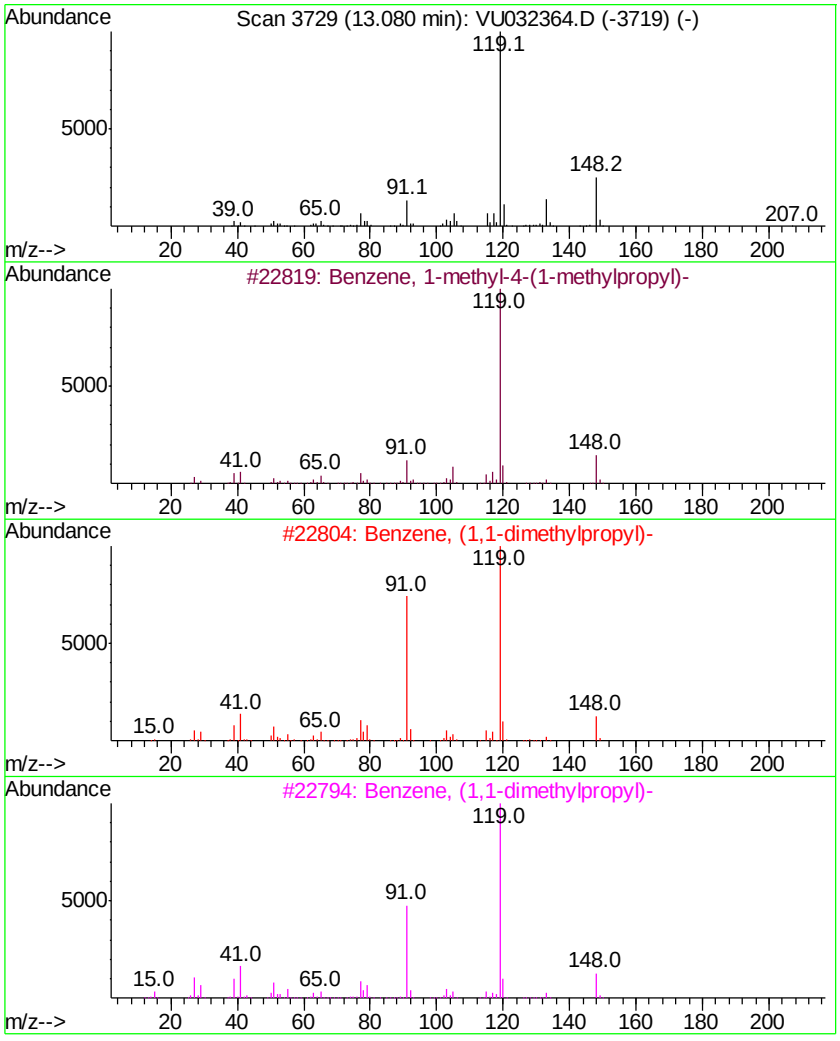
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

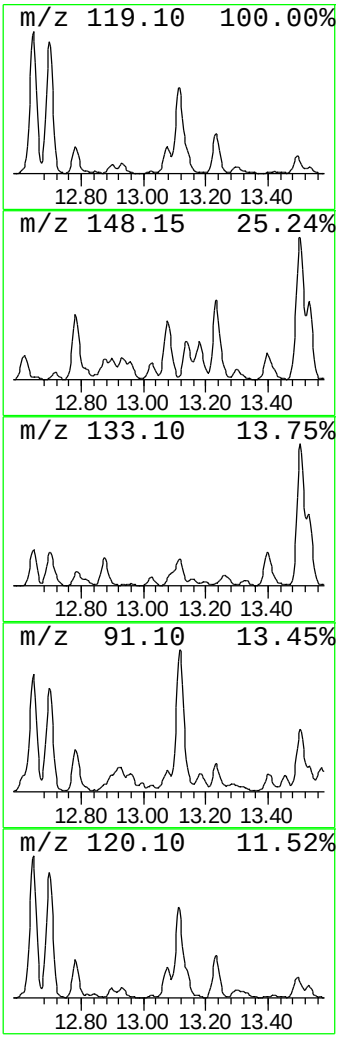
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 48 Benzene, 1-methyl-4-(1-meth... Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	1.48 ug/L	336047	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	93
2	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	86
3	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	78
4	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	70
5	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

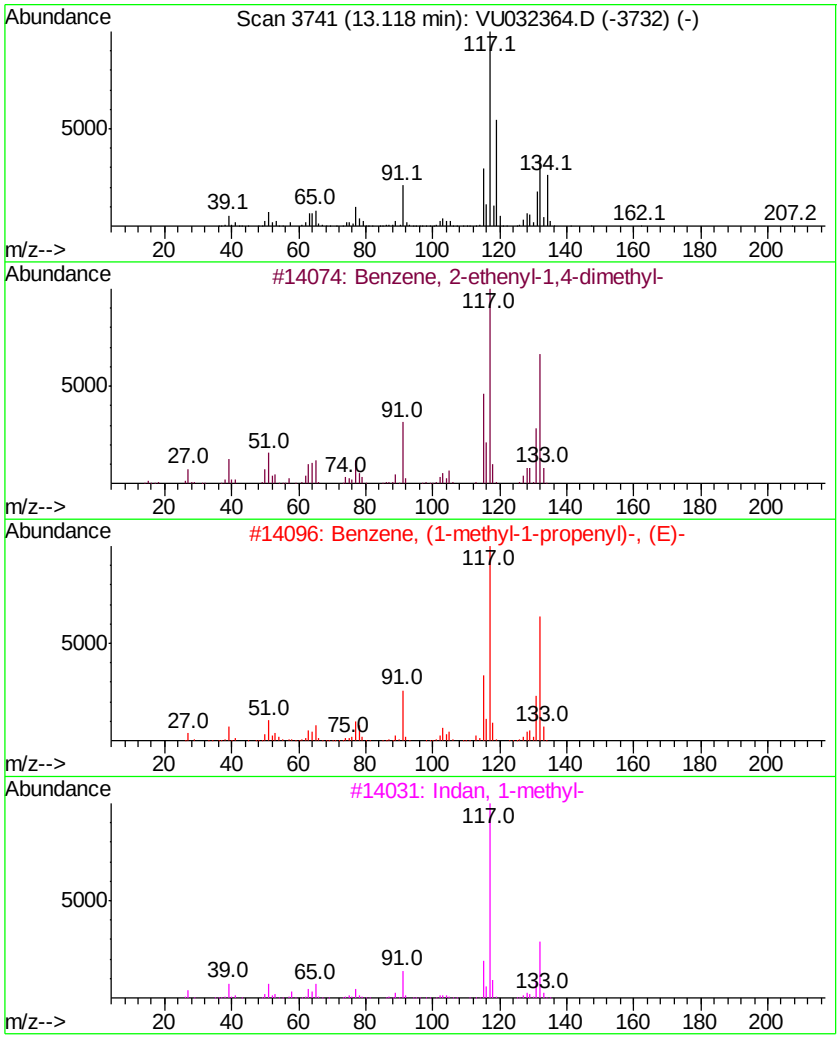
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

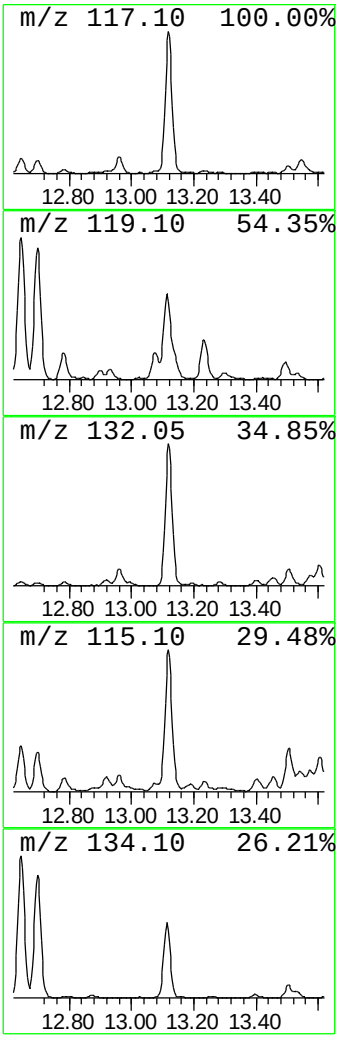
****

Peak Number 49 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	14.04 ug/L	3178810	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, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	86
3	Indan, 1-methyl-	132	C10H12	000767-58-8	70
4	Benzene, 2-butenyl-	132	C10H12	001560-06-1	70
5	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	70





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

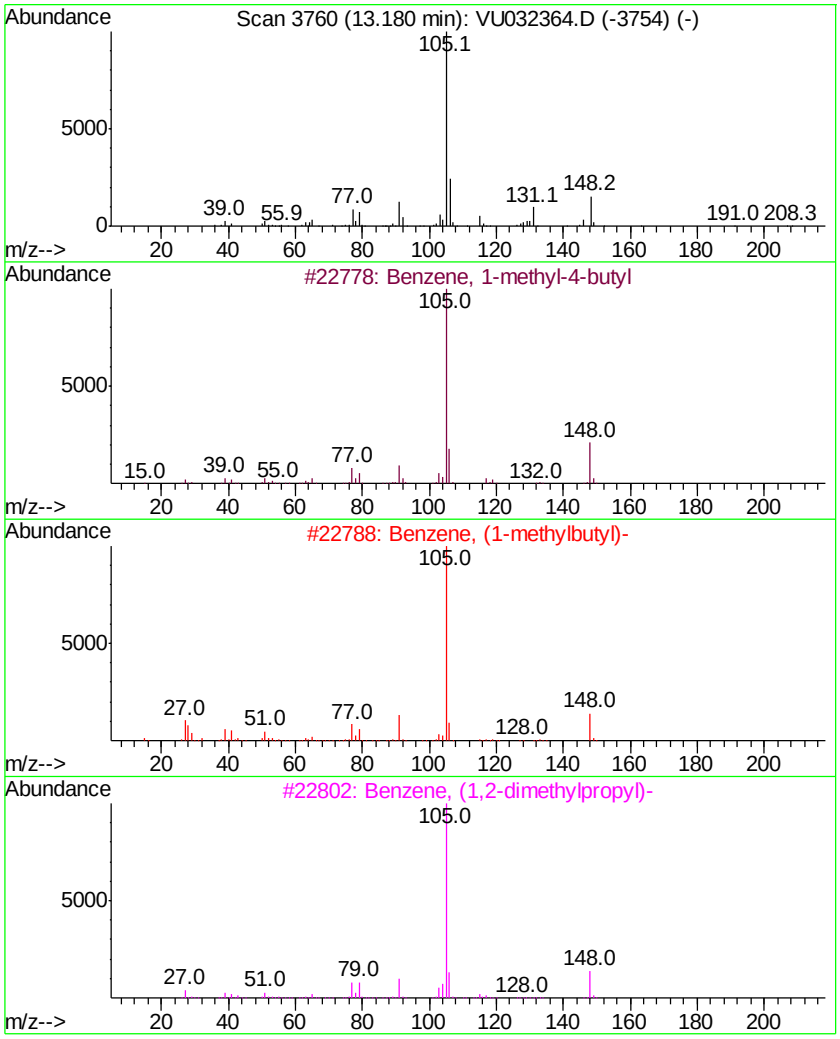
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

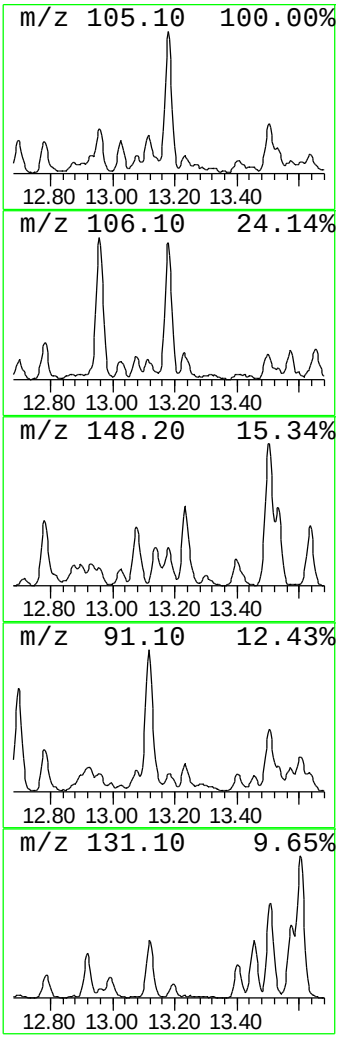
****

Peak Number 50 Benzene, 1-methyl-4-butyl Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	1.10 ug/L	249527	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-methylbutyl)-	148	C11H16	002719-52-0	49
3	Benzene, (1,2-dimethylpropyl)-	148	C11H16	004481-30-5	49
4	Benzene, (1,2-dimethylpropyl)-	148	C11H16	004481-30-5	47
5	2-Methylindan-2-ol	148	C10H12O	033223-84-6	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

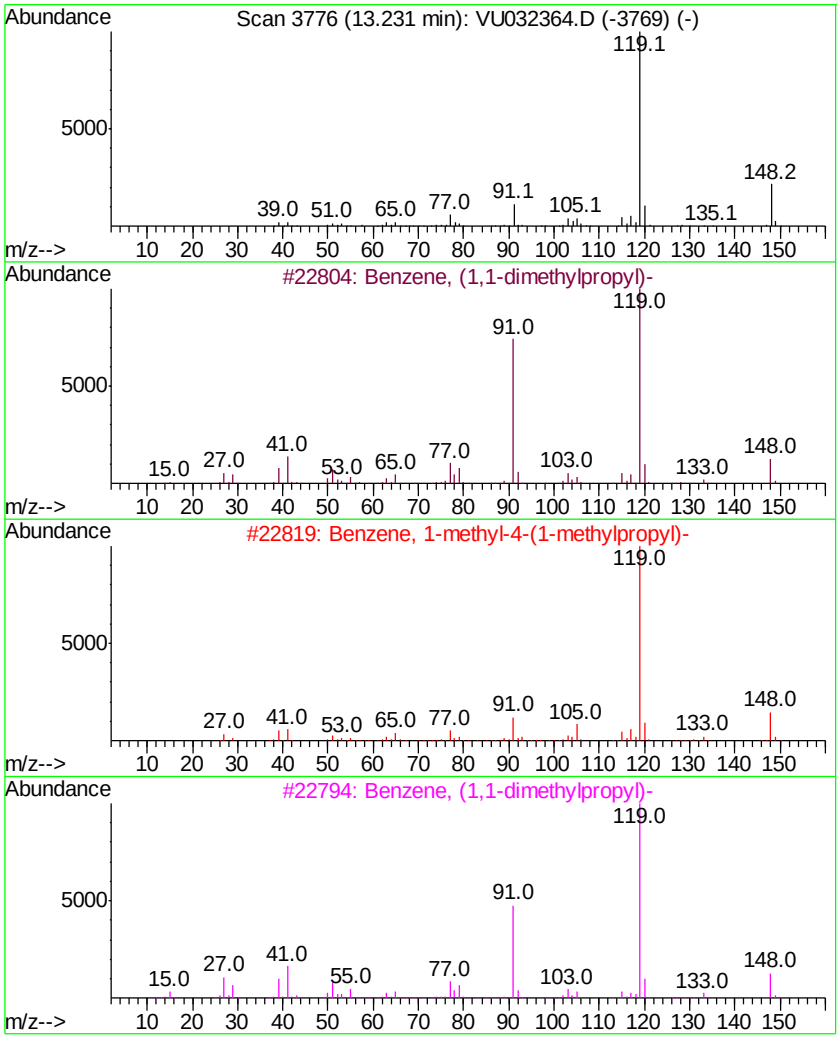
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

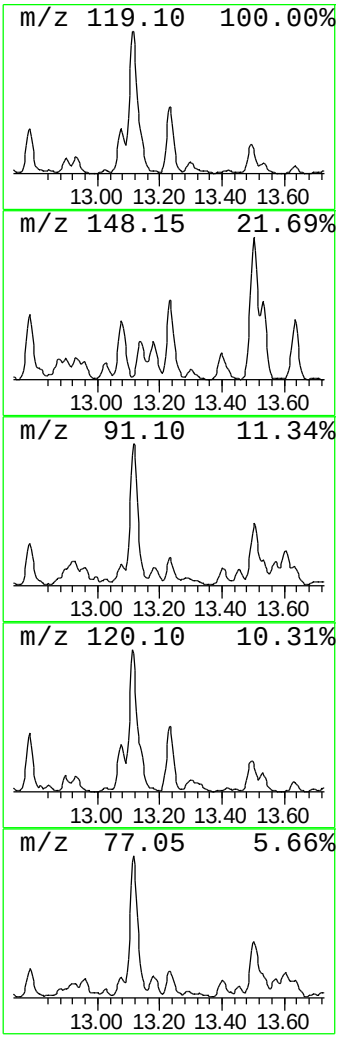
****

Peak Number 51 Benzene, (1,1-dimethylpropyl)- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	1.81 ug/L	409141	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	90
2	Benzene, 1-methyl-4-(1-methylpro...	148	C11H16	001595-16-0	90
3	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	83
4	Benzene, (1,1-dimethylpropyl)-	148	C11H16	002049-95-8	78
5	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

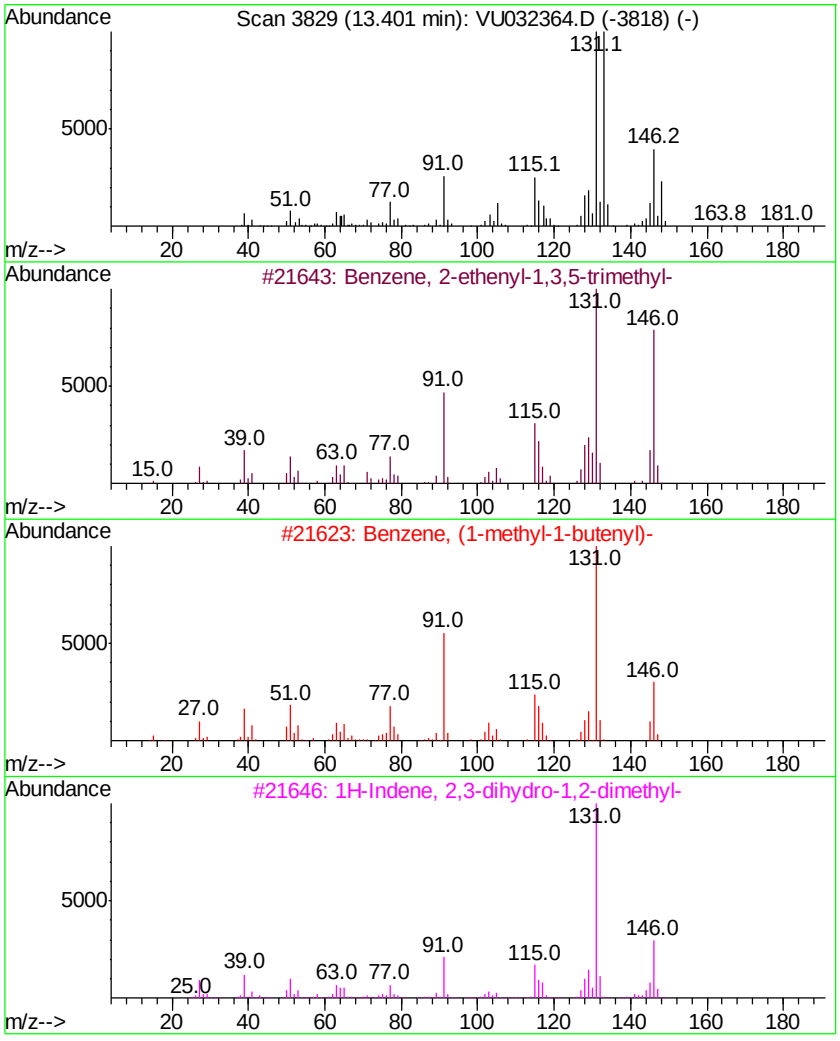
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

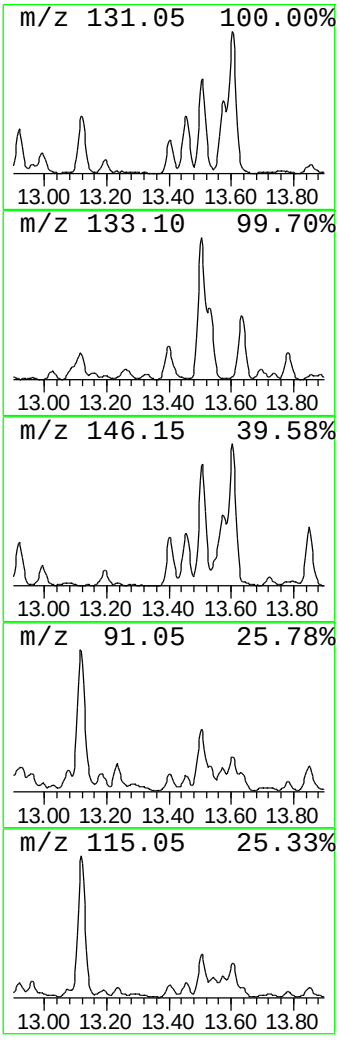
****

Peak Number 52 Benzene, 2-ethenyl-1,3,5-tr... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.40	1.95 ug/L	440980	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	78
2	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	78
3	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	78
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	78
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	70





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

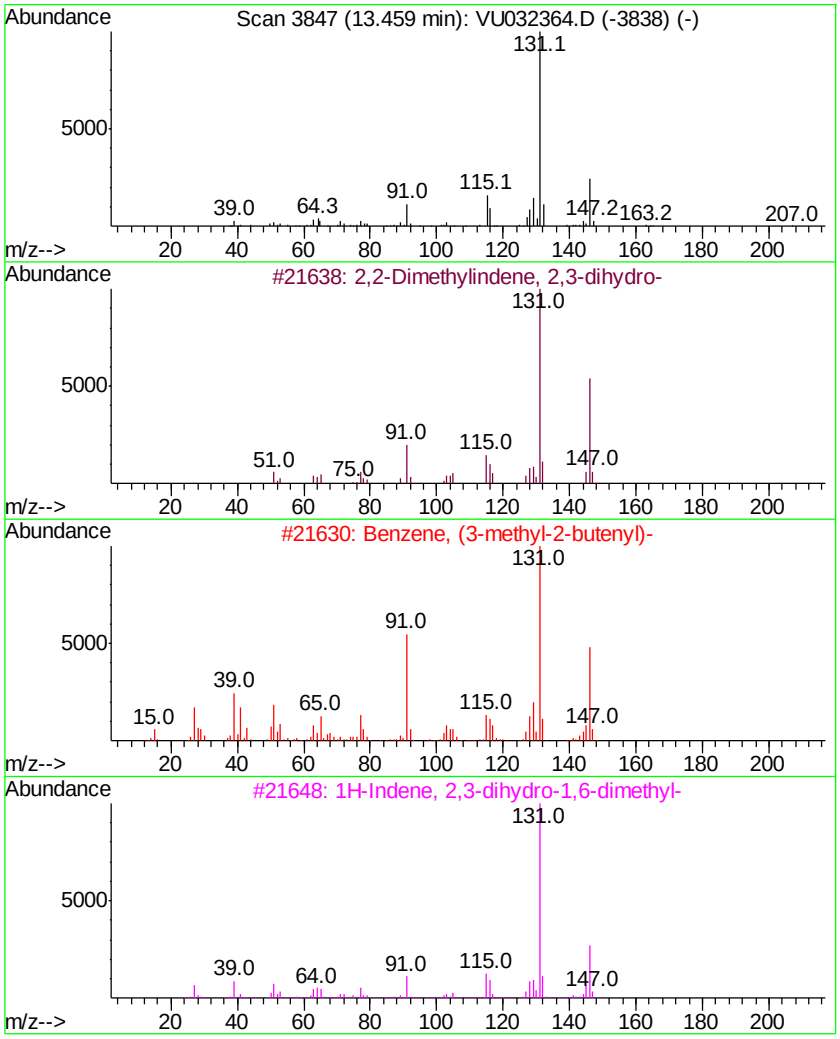
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

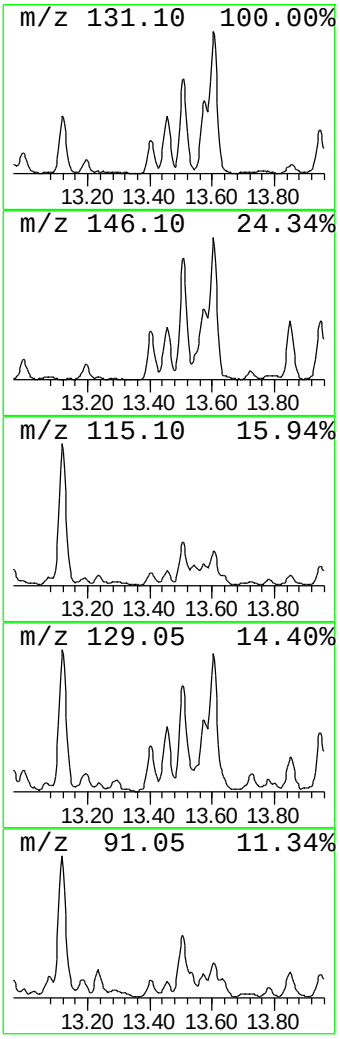
****

Peak Number 53 2,2-Dimethylindene, 2,3-dih... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.46	0.96 ug/L	217765	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	91
2	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	91
3	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	91
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	91
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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

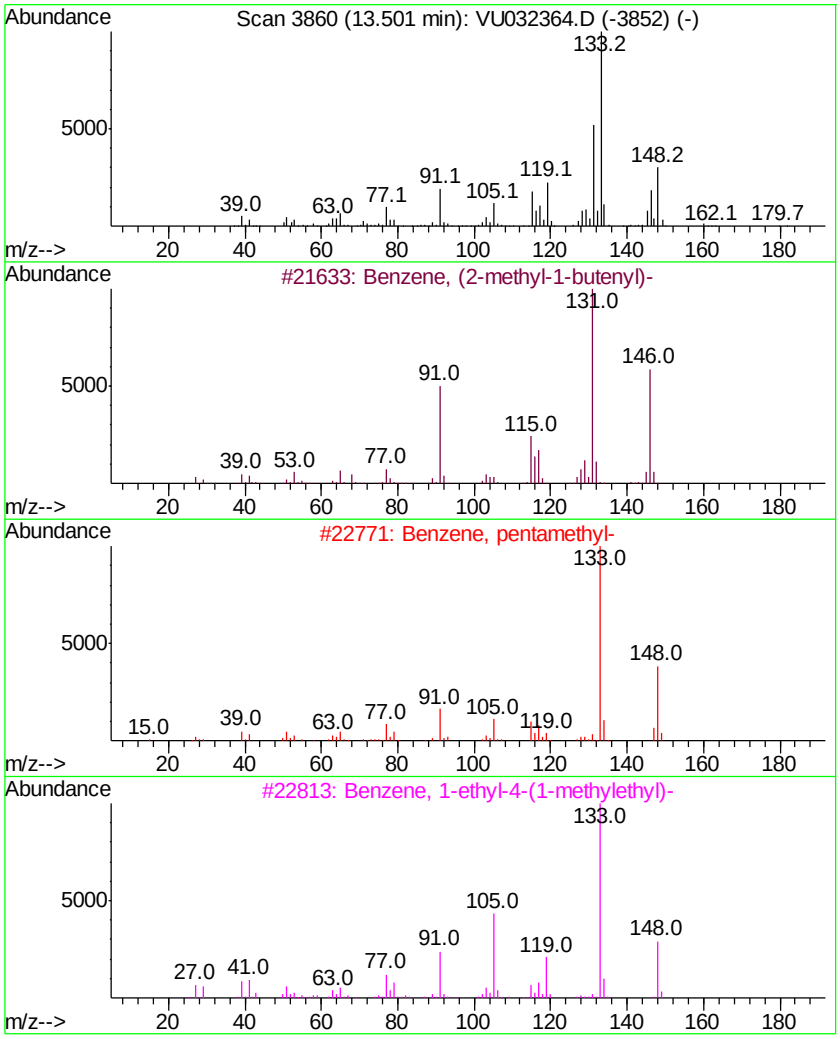
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

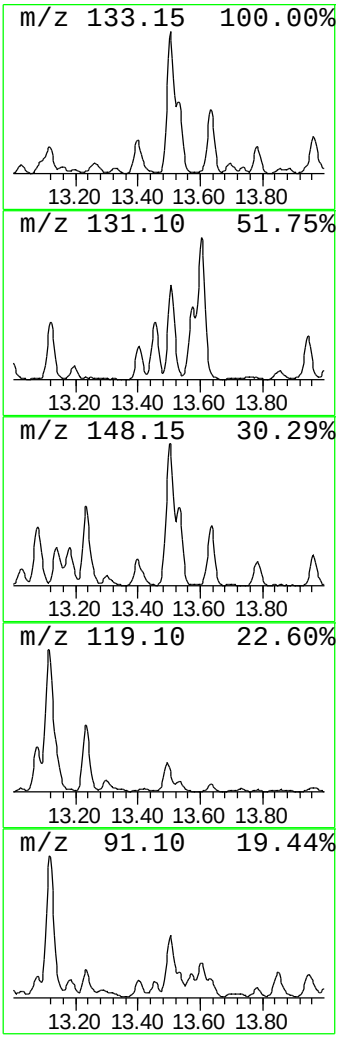
****

Peak Number 54 Benzene, (2-methyl-1-butenyl)- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.50	5.98 ug/L	1355380	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	80
2	Benzene, pentamethyl-	148	C11H16	000700-12-9	64
3	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	58
4	Benzene, 1-ethyl-2,4,5-trimethyl-	148	C11H16	017851-27-3	58
5	1,5,6,7-Tetramethylbicyclo[3.2.0...	148	C11H16	134329-46-7	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

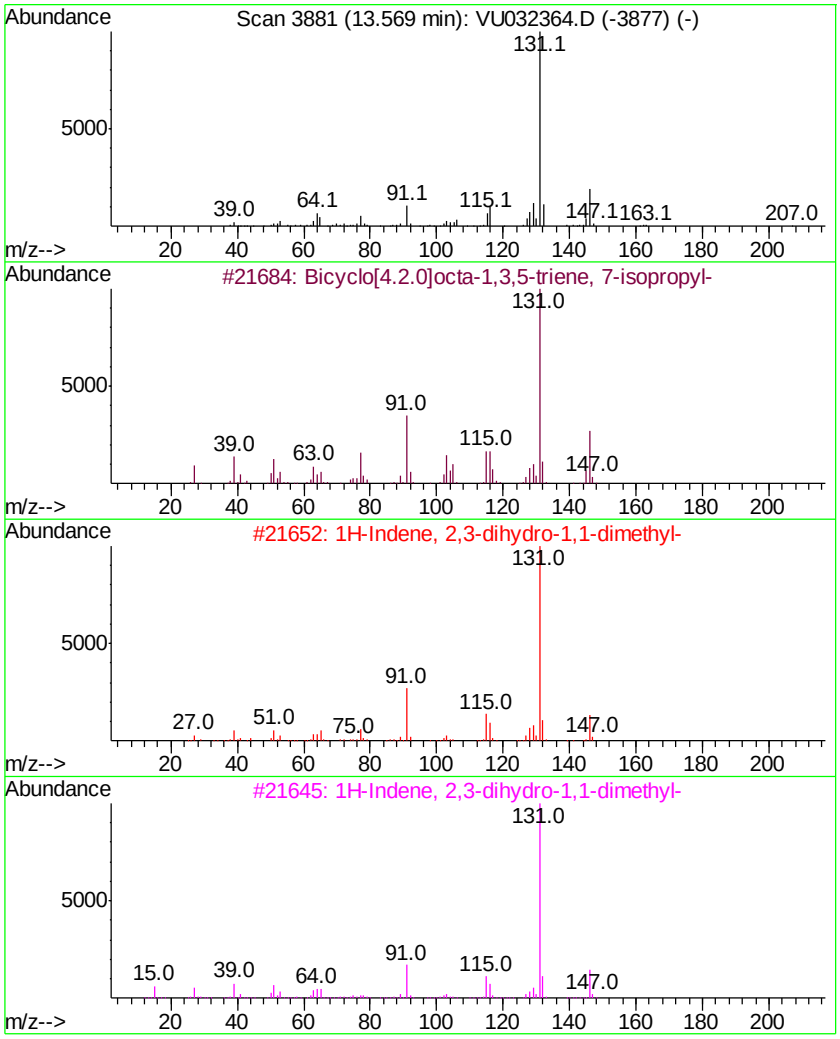
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

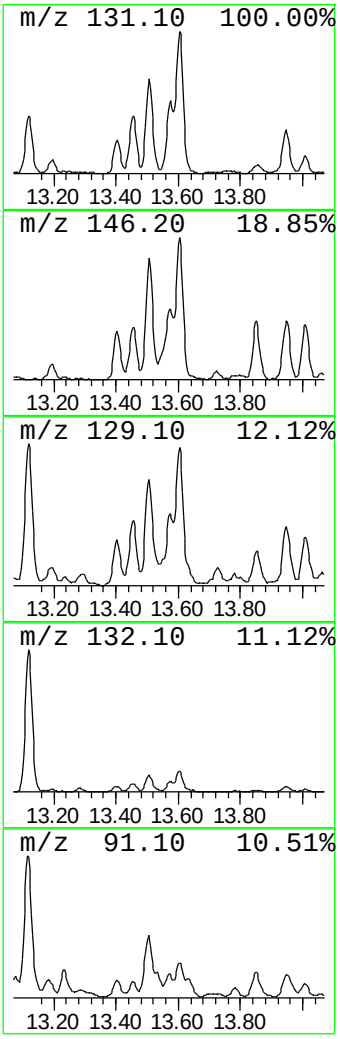
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 55 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 66

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	0.63 ug/L	143198	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	90
2	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	90
3	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	86
4	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	78
5	Cyclopropane, 2-bromo-1-methyl-1...	210	C10H11Br	055091-64-0	72





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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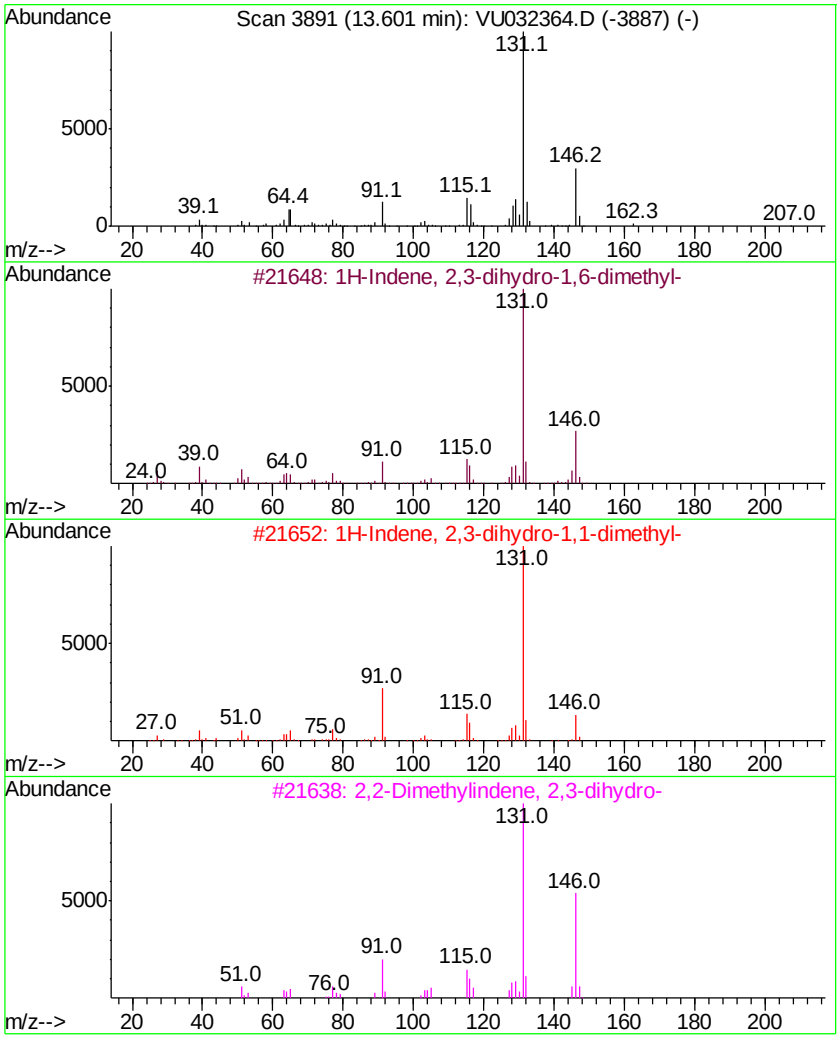
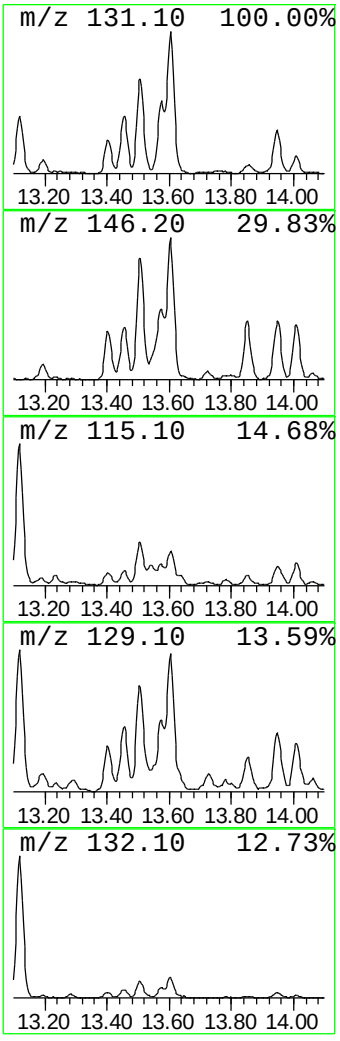
Peak Number 56 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	1.55 ug/L	350325	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-1,1-dimet...	146	C11H14	004912-92-9	94
3	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	91
4	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	91
5	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	91





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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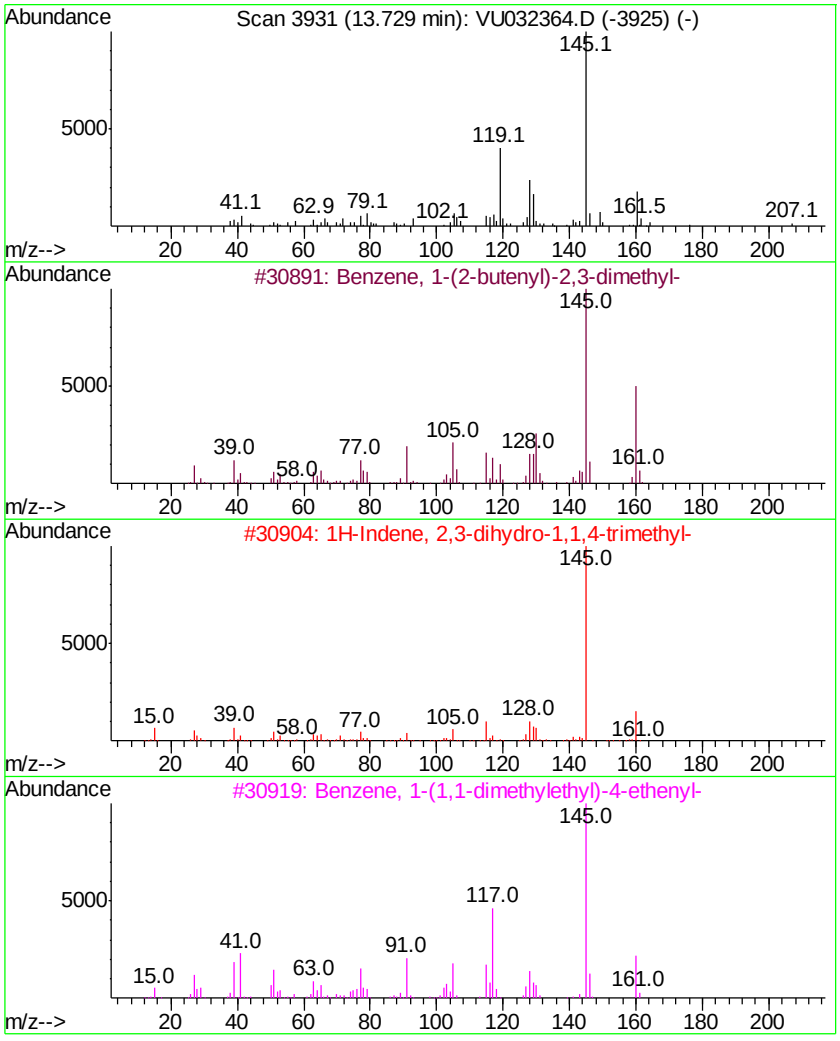
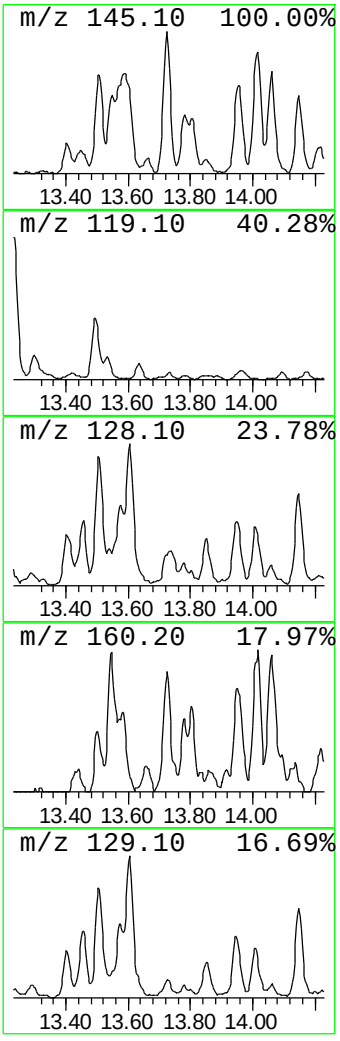
Peak Number 57 Benzene, 1-(2-butenyl)-2,3-... Concentration Rank 72

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.73	0.55 ug/L	125623	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(2-butenyl)-2,3-dimet...	160	C12H16	054340-85-1	64
2	1H-Indene, 2,3-dihydro-1,1,4-tri...	160	C12H16	016204-72-1	59
3	Benzene, 1-(1,1-dimethylethyl)-4...	160	C12H16	001746-23-2	59
4	Benzene, 1,3,5-trimethyl-2-(1-me...	160	C12H16	014679-13-1	59
5	1H-Indene, 2,3-dihydro-1,5,7-tri...	160	C12H16	054340-88-4	58





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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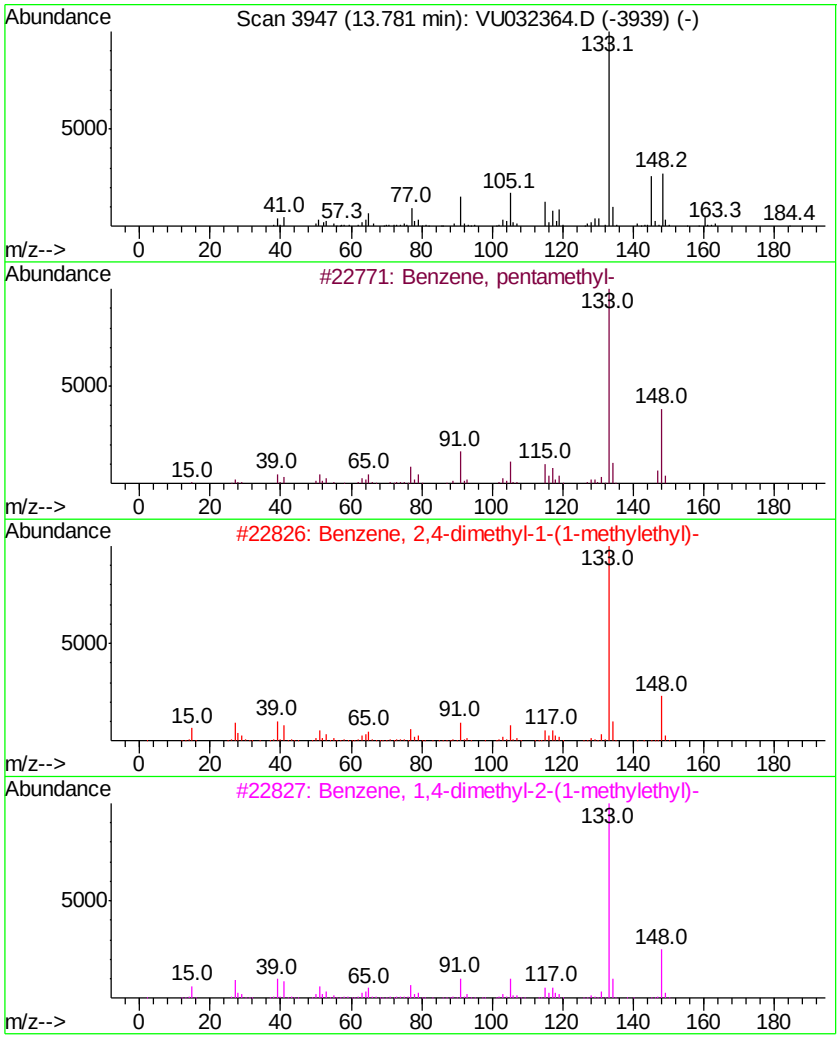
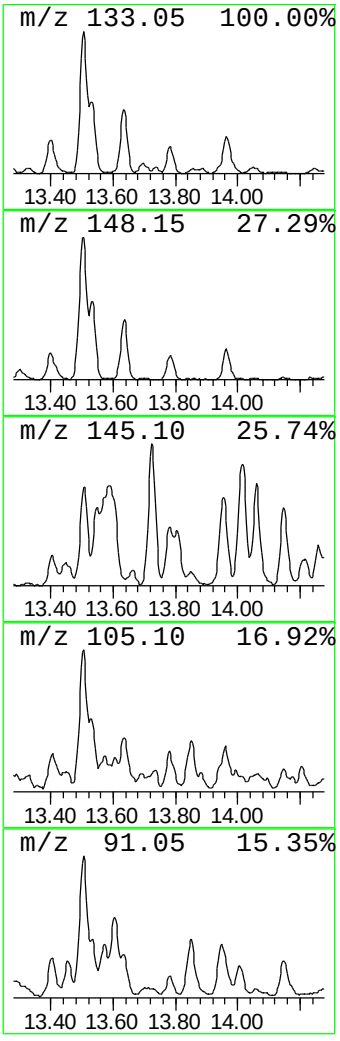
Peak Number 58 Benzene, pentamethyl- Concentration Rank 58

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.78	0.82 ug/L	185408	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, pentamethyl-	148	C11H16	000700-12-9	81
2	Benzene, 2,4-dimethyl-1-(1-methy...	148	C11H16	004706-89-2	76
3	Benzene, 1,4-dimethyl-2-(1-methy...	148	C11H16	004132-72-3	76
4	3,4-Dimethylcumene	148	C11H16	1000370-34-1	76
5	Benzene, pentamethyl-	148	C11H16	000700-12-9	68





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

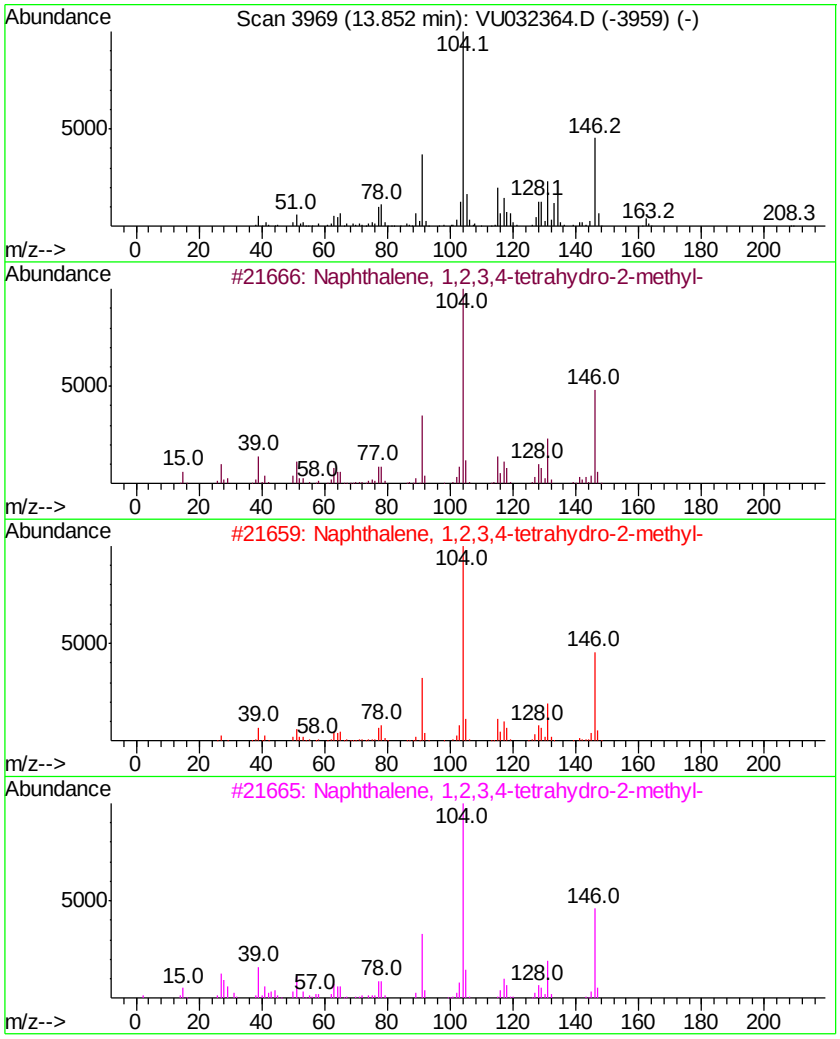
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0

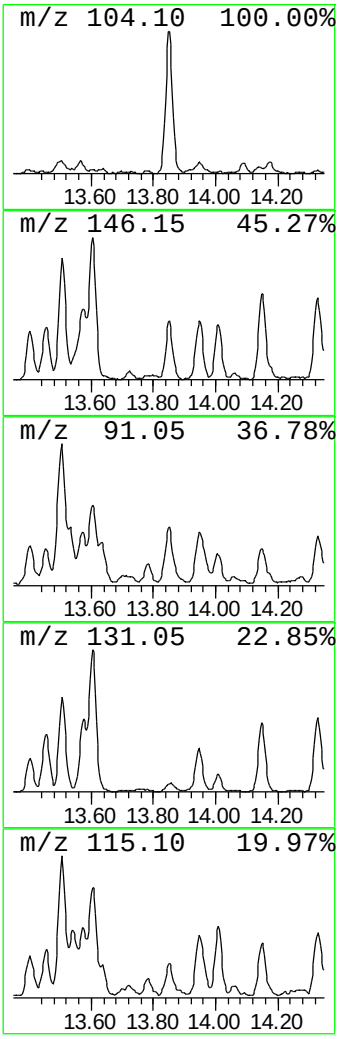
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 59 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	1.72 ug/L	388963	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	81
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	81
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	76
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	74
5	Naphth[1,2-b]oxirene, 1a,2,3,7b-...	146	C10H10O	002461-34-9	60





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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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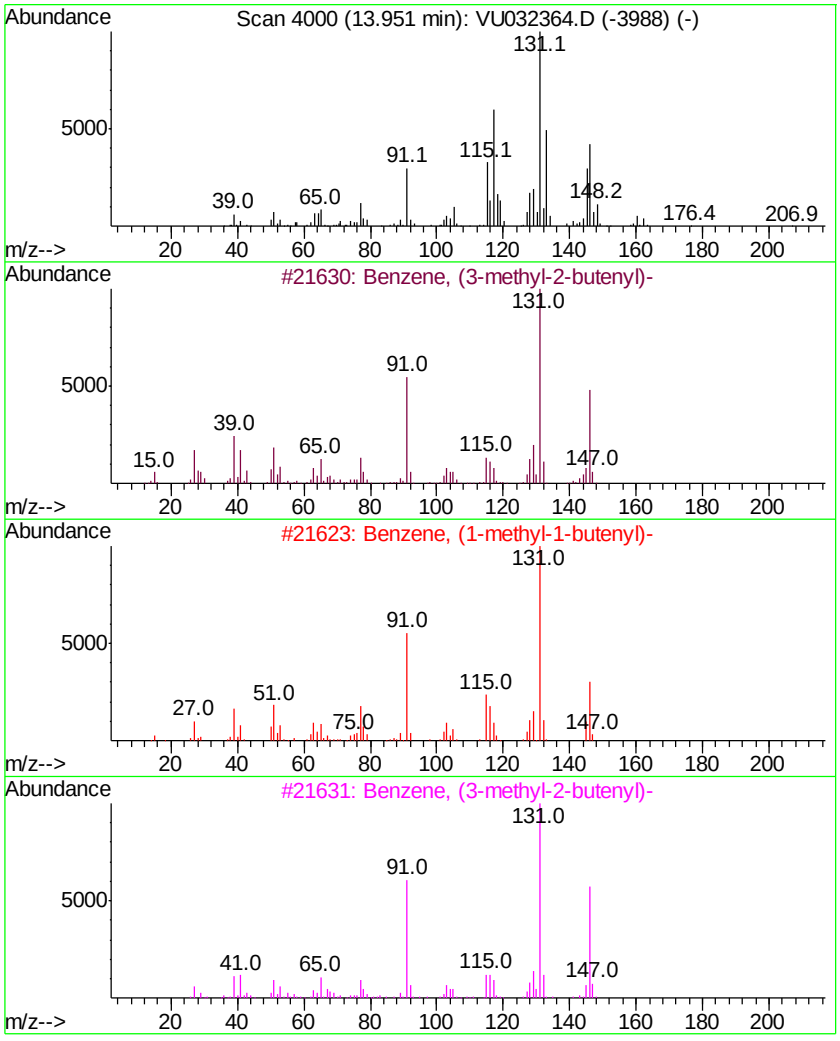
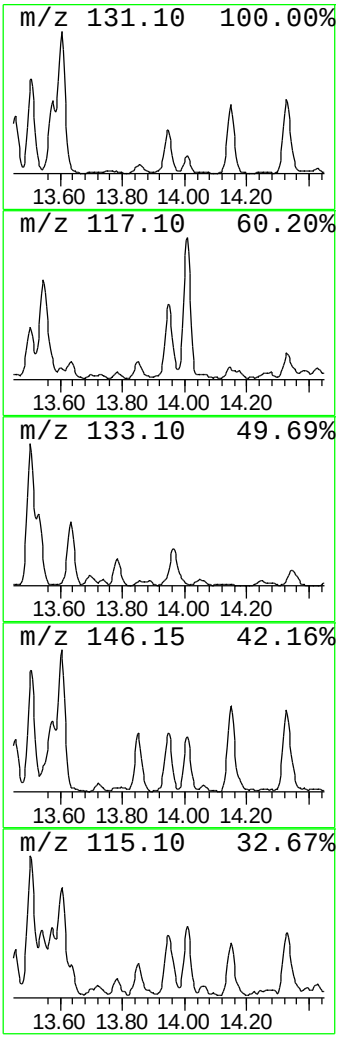
Peak Number 60 Benzene, (3-methyl-2-butenyl)- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	2.73 ug/L	618124	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	90
2	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	60
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	55
4	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	55
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU052919\
Data File : VU032364.D
Acq On : 29 May 2019 17:20
Operator : JC/SP
Sample : K3045-02DL 4X
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : C0C46DL

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	3.8	ug/L	696219	1	5.88	920275	5.0
(DEL) Alkane: Str...	2.70	8.9	ug/L	1630170	1	5.88	920275	5.0
(DEL) Alkane: Str...	2.98	3.8	ug/L	705800	1	5.88	920275	5.0
(DEL) Alkane: Str...	3.84	1.8	ug/L	334099	1	5.88	920275	5.0
(DEL) Alkane: Str...	3.98	3.5	ug/L	644722	1	5.88	920275	5.0
(DEL) Alkane: Cyc...	4.08	0.7	ug/L	125413	1	5.88	920275	5.0
(DEL) Alkane: Str...	4.72	3.2	ug/L	582863	1	5.88	920275	5.0
(DEL) Alkane: Str...	5.07	9.9	ug/L	1824890	1	5.88	920275	5.0
(DEL) Alkane: Cyc...	5.25	1.6	ug/L	294976	1	5.88	920275	5.0
(DEL) Alkane: Str...	5.48	3.8	ug/L	697679	1	5.88	920275	5.0
(DEL) Alkane: Str...	5.53	3.2	ug/L	587279	1	5.88	920275	5.0
(DEL) Alkane: Cyc...	5.61	0.6	ug/L	104030	1	5.88	920275	5.0
(DEL) Alkane: Cyc...	6.39	1.3	ug/L	230433	1	5.88	920275	5.0
(DEL) Alkane: Str...	6.47	0.6	ug/L	111432	1	5.88	920275	5.0
(DEL) Alkane: Str...	6.53	1.3	ug/L	234321	1	5.88	920275	5.0
(DEL) Alkane: Cyc...	6.73	1.8	ug/L	333372	1	5.88	920275	5.0
(DEL) Alkane: Str...	6.92	2.2	ug/L	407226	1	5.88	920275	5.0
(DEL) Alkane: Str...	7.04	2.2	ug/L	397719	1	5.88	920275	5.0
(DEL) Alkane: Str...	7.10	0.9	ug/L	166317	1	5.88	920275	5.0
(DEL) Alkane: Str...	7.29	0.7	ug/L	122661	1	5.88	920275	5.0
(DEL) Alkane: Str...	7.37	0.8	ug/L	154823	1	5.88	920275	5.0
(DEL) Alkane: Cyc...	7.70	0.6	ug/L	135092	2	9.09	1113280	5.0
(DEL) Alkane: Cyc...	7.91	0.9	ug/L	203585	2	9.09	1113280	5.0
(DEL) Alkane: Cyc...	8.04	1.1	ug/L	238740	2	9.09	1113280	5.0
(DEL) Alkane: Cyc...	8.48	0.6	ug/L	124469	2	9.09	1113280	5.0
Benzene, propyl-	10.58	1.4	ug/L	308471	3	11.48	1132440	5.0
Benzene, 1-ethyl-...	10.97	1.7	ug/L	394567	3	11.48	1132440	5.0
Benzene, (2-methy...	11.29	0.7	ug/L	150655	3	11.48	1132440	5.0
Benzene, (1-methy...	11.32	0.9	ug/L	208537	3	11.48	1132440	5.0
Indane	11.76	19.1	ug/L	4337020	3	11.48	1132440	5.0
Benzene, 1,2-diet...	11.98	1.9	ug/L	422728	3	11.48	1132440	5.0
Benzene, 1-methyl...	12.05	3.6	ug/L	816140	3	11.48	1132440	5.0
Benzene, 2-ethyl-...	12.14	0.6	ug/L	136741	3	11.48	1132440	5.0
Benzene, 1-ethyl-...	12.25	1.6	ug/L	363400	3	11.48	1132440	5.0
1-Phenyl-1-butene	12.28	2.1	ug/L	482300	3	11.48	1132440	5.0
Indan, 1-methyl-	12.35	4.4	ug/L	999668	3	11.48	1132440	5.0
Benzene, 1,4-diet...	12.49	0.7	ug/L	153594	3	11.48	1132440	5.0
Benzene, 1-methyl...	12.54	1.1	ug/L	250245	3	11.48	1132440	5.0
Benzene, 1,2,3,5-...	12.65	10.1	ug/L	2295400	3	11.48	1132440	5.0
Benzene, 1-methyl...	13.08	1.5	ug/L	336047	3	11.48	1132440	5.0
Benzene, 2-etheny...	13.12	14.0	ug/L	3178810	3	11.48	1132440	5.0
Benzene, 1-methyl...	13.18	1.1	ug/L	249527	3	11.48	1132440	5.0
Benzene, (1,1-dim...	13.23	1.8	ug/L	409141	3	11.48	1132440	5.0
Benzene, 2-etheny...	13.40	2.0	ug/L	440980	3	11.48	1132440	5.0
2,2-Dimethylinden...	13.46	1.0	ug/L	217765	3	11.48	1132440	5.0
Benzene, (2-methy...	13.50	6.0	ug/L	1355380	3	11.48	1132440	5.0
Bicyclo[4.2.0]oct...	13.57	0.6	ug/L	143198	3	11.48	1132440	5.0
1H-Indene, 2,3-di...	13.60	1.6	ug/L	350325	3	11.48	1132440	5.0
Benzene, 1-(2-but...	13.73	0.6	ug/L	125623	3	11.48	1132440	5.0

Benzene, pentamet...	13.78	0.8	ug/L	185408	3	11.48	1132440	5.0
Naphthalene, 1,2,...	13.85	1.7	ug/L	388963	3	11.48	1132440	5.0
Benzene, (3-methy...	13.95	2.7	ug/L	618124	3	11.48	1132440	5.0

Instrument :
MSVOA_U
ClientSampleId :
C0C46DL