LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.864	13	24	43	rBV	640765	1456331	7.34%	0.250%
2	2.944	43	49	55	rVV2	148291	213154	1.07%	0.037%
3	3.009	55	69	93	rVV5	747551	1697684	8.55%	0.291%
4	3.195	117	127	137	rBV3	284302	490099	2.47%	0.084%
5	3.250	137	144	152	rVV	325637	549653	2.77%	0.094%
6	3.301	152	160	169	rVV2	849462	1437506	7.24%	0.247%
7	3.350	169	175	186	rVB2	287809	436980	2.20%	0.075%
8	3.706	275	286	296	rBV5	125777	274297	1.38%	0.047%
9	3.838	317	327	358	rBV	4357942	9560546	48.17%	1.640%
10	3.964	358	366	374	rBV2	222240	368829	1.86%	0.063%
11	4.124	408	416	426	rBV3	220018	333134	1.68%	0.057%
12	4.253	444	456	478	rBV	9627446	19449714	97.99%	3.337%
13	4.340	478	483	504	rVB6	429182	1013141	5.10%	0.174%
14	4.546	533	547	556	rBV2	149288	289811	1.46%	0.050%
15	4.960	665	676	690	rVV2	174238	418000	2.11%	0.072%
16	5.050	694	704	711	rVV6	171843	339949	1.71%	0.058%
17	5.102	711	720	734	rVV2	434520	886324	4.47%	0.152%
18	5.240	752	763	790	rVV	905269	1924020	9.69%	0.330%
19	5.369	792	803	817	rVB2	396317	758295	3.82%	0.130%
20	5.546	845	858	880	rBV2	983626	2021292	10.18%	0.347%
21	5.665	882	895	920	rVV4	2343155	5826589	29.36%	1.000%
22	6.218	1053	1067	1083	rBV6	118893	281225	1.42%	0.048%
23	6.320	1086	1099	1103	rVV5	542398	1128643	5.69%	0.194%
24	6.337	1103	1104	1123	rVB3	520787	715289	3.60%	0.123%
25	6.886	1265	1275	1294	rVB3	463902	932030	4.70%	0.160%
26	7.128	1335	1350	1353	rBV3	551588	931823	4.69%	0.160%
27	7.169	1353	1363	1378	rVV	3650753	8189180	41.26%	1.405%
28	7.250	1378	1388	1400	rVV	1406137	3254106	16.39%	0.558%
29	7.327	1400	1412	1434	rVB4	1224100	2875505	14.49%	0.493%
30	7.481	1436	1460	1488	rBV3	2263947	6211040	31.29%	1.066%
31	7.713	1517	1532	1541	rBV4	679329	1550816	7.81%	0.266%
32	7.783	1541	1554	1555	rBV2	551196	747538	3.77%	0.128%
33	7.864	1560	1579	1614	rVB5	4406291	15325283	77.21%	2.629%
34	8.124	1645	1660	1673	rBV5	558334	1253192	6.31%	0.215%

LSC Area Percent Report

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Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

35	8.185	1673	1679	1696	rVB10	162653	366910	1.85%	0.063%
36	8.375	1724	1738	1749	rBV5	198257	478600	2.41%	0.082%
37	8.459	1749	1764	1796	rVB2	2749799	6963918	35.08%	1.195%
38	8.623	1799	1815	1828	rBV2	211977	483053	2.43%	0.083%
39	8.767	1843	1860	1861	rBV4	727749	1148205	5.78%	0.197%
40	8.816	1861	1875	1886	rVV2	4077496	10913263	54.98%	1.872%
41	8.861	1886	1889	1899	rVV4	1435362	2529173	12.74%	0.434%
42	8.918	1899	1907	1920	rVV4	814621	1898830	9.57%	0.326%
43	8.973	1920	1924	1933	rVV7	139730	244631	1.23%	0.042%
44	9.044	1933	1946	1957	rVV3	1408429	3215821	16.20%	0.552%
45	9.121	1957	1970	2014	rVB4	2362525	8857918	44.63%	1.520%
46	9.352	2024	2042	2061	rBV5	2799870	7129301	35.92%	1.223%
47	9.443	2068	2070	2086	rVB6	148477	243179	1.23%	0.042%
48	9.568	2088	2109	2119	rBV3	1544682	3893245	19.61%	0.668%
49	9.635	2119	2130	2149	rVB3	1990511	4906554	24.72%	0.842%
50	9.809	2163	2184	2205	rBV7	3815591	11467261	57.77%	1.967%
51	9.918	2205	2218	2228	rVV4	1165750	2957363	14.90%	0.507%
52	9.976	2228	2236	2247	rVV4	830000	1899034	9.57%	0.326%
53	10.057	2247	2261	2271	rVV3	3833059	9249551	46.60%	1.587%
54	10.111	2271	2278	2295	rVV4	1593097	3744930	18.87%	0.643%
55	10.205	2295	2307	2319	rVV3	593551	1391869	7.01%	0.239%
56	10.295	2319	2335	2345	rVV4	2446275	6331298	31.90%	1.086%
57	10.343	2345	2350	2366	rVV8	879477	2211212	11.14%	0.379%
58	10.426	2366	2376	2381	rVV3	646893	1304491	6.57%	0.224%
59	10.494	2381	2397	2425	rVB5	4609208	17355444	87.44%	2.978%
60	10.632	2425	2440	2462	rVB2	1283691	3201214	16.13%	0.549%
61	10.748	2462	2476	2477	rBV2	849532	1252167	6.31%	0.215%
62	10.777	2480	2485	2497	rVV4	825175	1670238	8.41%	0.287%
63	10.848	2497	2507	2512	rVV6	642693	1271646	6.41%	0.218%
64	10.893	2512	2521	2537	rVV3	1475822	3601292	18.14%	0.618%
65	10.989	2541	2551	2562	rVB8	214672	433984	2.19%	0.074%
66	11.102	2570	2586	2603	rBV4	2270990	6070359	30.58%	1.041%
67	11.214	2610	2621	2635	rVB3	903200	2006081	10.11%	0.344%
68	11.307	2635	2650	2675	rVB4	1548831	4419186	22.26%	0.758%
69	11.507	2697	2712	2731	rVB6	780702	2393403	12.06%	0.411%
70	11.632	2731	2751	2752	rBV2	605708	920526	4.64%	0.158%
71	11.639	2752	2753	2760	rVV4	389165	385196	1.94%	0.066%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

72	11.700	2760	2772	2790	rVB6	1283355	3384036	17.05%	0.581%
73	11.828	2790	2812	2829	rBV4	1508815	4248461	21.40%	0.729%
74	11.928	2836	2843	2853	rVB7	136362	249718	1.26%	0.043%
75	12.018	2853	2871	2881	rBV2	4133713	10989834	55.37%	1.886%
76	12.086	2881	2892	2912	rVV2	4333098	13787172	69.46%	2.365%
77	12.192	2912	2925	2931	rVV	3046798	7975438	40.18%	1.368%
78	12.230	2931	2937	2958	rVV3	2732232	7534991	37.96%	1.293%
79	12.349	2958	2974	2990	rVV3	4732405	12422471	62.59%	2.131%
80	12.439	2990	3002	3009	rVV4	1288370	3308858	16.67%	0.568%
81	12.475	3009	3013	3022	rVV5	1141755	2458167	12.38%	0.422%
82	12.513	3022	3025	3041	rVB5	744187	1357082	6.84%	0.233%
83	12.632	3049	3062	3063	rBV3	456747	755212	3.80%	0.130%
84	12.693	3063	3081	3101	rVB8	1416708	5901070	29.73%	1.012%
85	12.812	3101	3118	3126	rBV4	2073694	5146736	25.93%	0.883%
86	12.876	3126	3138	3152	rVV5	3020903	9284287	46.78%	1.593%
87	12.960	3152	3164	3189	rVV10	1681500	7030994	35.42%	1.206%
88	13.085	3189	3203	3219	rVB6	1873716	5575118	28.09%	0.957%
89	13.175	3219	3231	3251	rBV8	571303	1787415	9.01%	0.307%
90	13.320	3251	3276	3293	rBV4	2355241	6981672	35.17%	1.198%
91	13.471	3322	3323	3332	rVB7	220168	213232	1.07%	0.037%
92	13.545	3332	3346	3347	rBV2	1385226	1933675	9.74%	0.332%
93	13.552	3347	3348	3367	rVB7	1342847	2460301	12.40%	0.422%
94	13.690	3367	3391	3402	rVV6	870167	2580318	13.00%	0.443%
95	13.790	3402	3422	3432	rVV8	1852440	6303225	31.76%	1.081%
96	13.838	3435	3437	3443	rVV4	1205218	1689437	8.51%	0.290%
97	13.886	3443	3452	3465	rVV4	2254717	5334935	26.88%	0.915%
98	13.963	3465	3476	3488	rVV4	1114052	2633987	13.27%	0.452%
99	14.082	3492	3513	3528	rVB4	658630	2663909	13.42%	0.457%
100	14.201	3541	3550	3551	rBV5	232239	277067	1.40%	0.048%
101	14.208	3551	3552	3561	rVB3	245439	225548	1.14%	0.039%
102	14.320	3567	3587	3602	rVB9	835644	2632695	13.26%	0.452%
103	14.417	3602	3617	3628	rBV2	4532720	11418894	57.53%	1.959%
104	14.494	3628	3641	3657	rVB5	2632357	7749806	39.04%	1.330%
105	14.593	3657	3672	3673	rBV5	711797	1190673	6.00%	0.204%
106	14.603	3673	3675	3689	rVB7	659692	1098899	5.54%	0.189%
107	14.738	3701	3717	3731	rBV6	1140567	3298789	16.62%	0.566%
108	14.883	3748	3762	3774	rBV5	2091031	5120620	25.80%	0.879%
109	14.950	3774	3783	3796	rVB5	946495	2098982	10.57%	0.360%

LSC Area Percent Report

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Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
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Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

110	14.995	3796	3797	3809	rVB4	360084	451359	2.27%	0.077%
111	15.073	3809	3821	3832	rBV7	997769	2382875	12.01%	0.409%
112	15.172	3832	3852	3860	rBV5	2642320	7354704	37.05%	1.262%
113	15.233	3860	3871	3889	rVB	4467206	11342305	57.14%	1.946%
114	15.327	3889	3900	3914	rVB8	892641	2069984	10.43%	0.355%
115	15.407	3924	3925	3937	rVB4	307049	357144	1.80%	0.061%
116	15.491	3937	3951	3964	rBV3	3249830	8622625	43.44%	1.479%
117	15.581	3978	3979	3991	rVB4	877696	1064923	5.37%	0.183%
118	15.654	3991	4002	4017	rVB7	709260	1985955	10.01%	0.341%
119	15.777	4027	4040	4050	rBV6	683419	1425417	7.18%	0.245%
120	15.860	4050	4066	4087	rVB8	2099531	7016851	35.35%	1.204%
121	15.986	4087	4105	4110	rBV7	816855	2126348	10.71%	0.365%
122	16.031	4110	4119	4126	rVV2	681873	1403799	7.07%	0.241%
123	16.092	4126	4138	4172	rVB2	2984591	12359669	62.27%	2.121%
124	16.230	4172	4181	4191	rVB5	431896	757306	3.82%	0.130%
125	16.314	4194	4207	4219	rBV4	859234	2227164	11.22%	0.382%
126	16.375	4219	4226	4236	rVB2	308816	593180	2.99%	0.102%
127	16.458	4236	4252	4253	rBV7	559216	987133	4.97%	0.169%
128	16.523	4253	4272	4284	rBV10	734825	2338572	11.78%	0.401%
129	16.600	4293	4296	4307	rVB6	426465	679628	3.42%	0.117%
130	16.664	4307	4316	4319	rBV7	203762	278398	1.40%	0.048%
131	16.683	4321	4322	4335	rVB8	372486	525105	2.65%	0.090%
132	16.773	4335	4350	4367	rBV7	1958188	5683500	28.63%	0.975%
133	16.870	4367	4380	4393	rVB6	1176335	2938521	14.80%	0.504%
134	16.976	4393	4413	4432	rBV5	1958899	6175306	31.11%	1.060%
135	17.050	4432	4436	4448	rVB10	237054	410529	2.07%	0.070%
136	17.134	4448	4462	4472	rBV6	633830	1599840	8.06%	0.274%
137	17.249	4472	4498	4535	rVB	5240963	19848709	100.00%	3.405%
138	17.423	4535	4552	4555	rBV8	423090	941021	4.74%	0.161%
139	17.497	4558	4575	4592	rBV2	6111795	16513556	83.20%	2.833%
140	17.590	4592	4604	4614	rVB9	704058	1663999	8.38%	0.285%
141	17.651	4614	4623	4626	rBV7	247475	333016	1.68%	0.057%
142	17.690	4632	4635	4644	rVB7	148149	201493	1.02%	0.035%
143	17.728	4644	4647	4660	rVB5	394925	653076	3.29%	0.112%
144	17.822	4660	4676	4703	rBV4	2944620	8356794	42.10%	1.434%
145	17.953	4703	4717	4718	rBV3	480214	830173	4.18%	0.142%
146	17.982	4718	4726	4727	rBV6	246646	284081	1.43%	0.049%

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Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
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Integration Parameters: RTEINT.P
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Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
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Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

147	18.018	4736	4737	4754	rVB9	806421	1342887	6.77%	0.230%
148	18.172	4766	4785	4800	rBV6	1543012	4485029	22.60%	0.770%
149	18.259	4800	4812	4814	rVV7	740407	1516850	7.64%	0.260%
150	18.291	4816	4822	4823	rVV4	822402	1023203	5.16%	0.176%
151	18.297	4823	4824	4833	rVV4	832065	1030299	5.19%	0.177%
152	18.365	4835	4845	4870	rVB9	1373632	4598842	23.17%	0.789%
153	18.490	4873	4884	4891	rBV9	311467	768428	3.87%	0.132%
154	18.571	4894	4909	4923	rVB10	583506	1511854	7.62%	0.259%
155	18.642	4923	4931	4933	rBV7	205376	279001	1.41%	0.048%
156	18.696	4939	4948	4949	rBV3	699850	744135	3.75%	0.128%
157	18.703	4949	4950	4962	rVV4	726247	896837	4.52%	0.154%
158	18.767	4962	4970	4982	rVB6	437067	915839	4.61%	0.157%
159	18.860	4982	4999	5008	rBV6	408776	1229214	6.19%	0.211%
160	18.963	5008	5031	5045	rVB10	1426001	4785353	24.11%	0.821%
161	19.063	5049	5062	5074	rVB5	447284	1169236	5.89%	0.201%
162	19.137	5074	5085	5095	rBV7	446650	973389	4.90%	0.167%
163	19.207	5098	5107	5109	rVV8	248859	359344	1.81%	0.062%
164	19.217	5109	5110	5127	rVB8	265604	506555	2.55%	0.087%
165	19.349	5144	5151	5160	rVB3	117639	201962	1.02%	0.035%
166	19.449	5164	5182	5183	rBV10	512642	1001810	5.05%	0.172%
167	19.455	5183	5184	5196	rVB5	474706	657873	3.31%	0.113%
168	19.535	5199	5209	5218	rBV5	313861	780744	3.93%	0.134%
169	19.638	5231	5241	5256	rVB7	603563	1670172	8.41%	0.287%
170	19.825	5289	5299	5313	rVB7	286458	776447	3.91%	0.133%
171	20.011	5345	5357	5366	rBV8	281696	568783	2.87%	0.098%
172	20.072	5375	5376	5398	rVB8	326322	720895	3.63%	0.124%
173	20.268	5425	5437	5440	rBV10	175411	302838	1.53%	0.052%
174	20.420	5482	5484	5504	rVB7	390959	854011	4.30%	0.147%
175	20.545	5507	5523	5535	rBV10	647159	1995193	10.05%	0.342%
176	20.587	5535	5536	5552	rVB5	375949	587396	2.96%	0.101%
177	20.709	5561	5574	5582	rBV8	290069	674096	3.40%	0.116%
178	20.757	5584	5589	5607	rVB7	271826	624843	3.15%	0.107%
179	20.883	5614	5628	5641	rVB7	155715	377700	1.90%	0.065%
180	21.024	5657	5672	5706	rVB7	885455	3345918	16.86%	0.574%
181	21.487	5793	5816	5818	rBV7	351984	808982	4.08%	0.139%
182	21.497	5818	5819	5830	rVB2	222497	282656	1.42%	0.048%
183	22.204	6024	6039	6040	rBV10	202139	325860	1.64%	0.056%
184	22.211	6040	6041	6057	rVB9	193065	315983	1.59%	0.054%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

Sum of corrected areas: 582849603

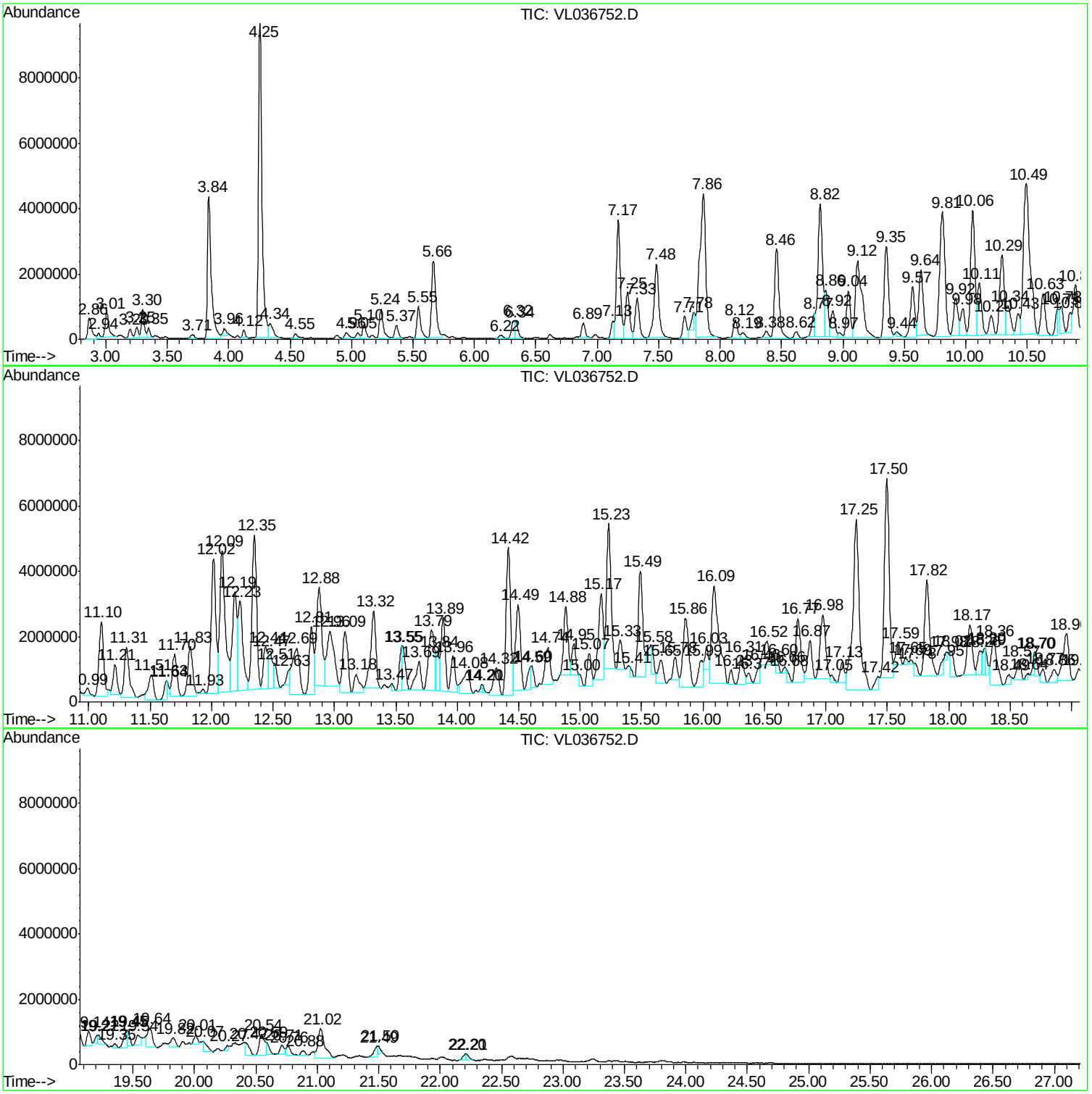
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

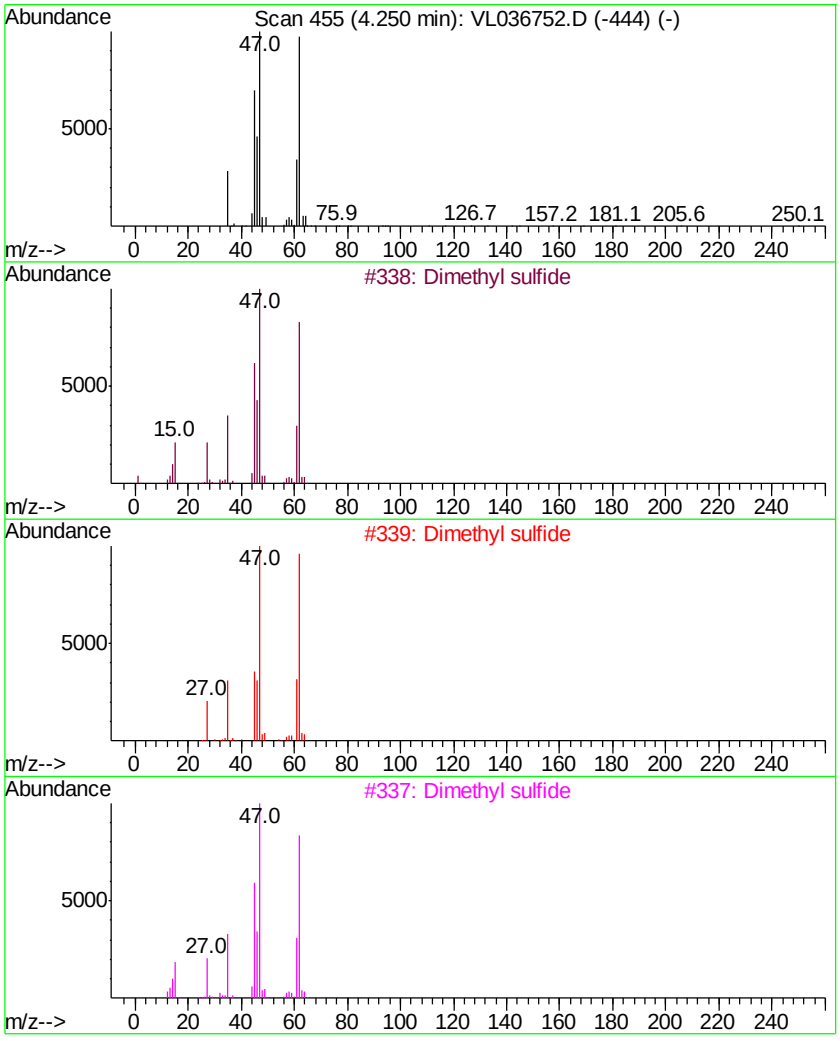
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

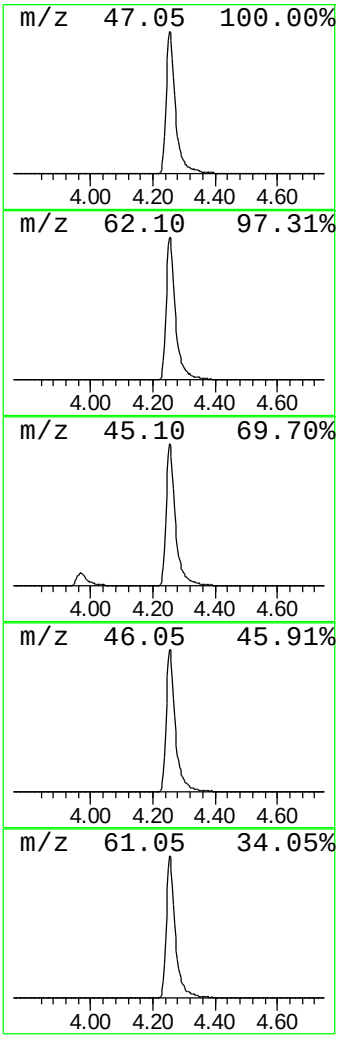
****

Peak Number 1 Dimethyl sulfide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.25	33.38 ppbv	19449700	Bromochloromethane	5.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl sulfide	62	C2H6S	000075-18-3	95
2	Dimethyl sulfide	62	C2H6S	000075-18-3	95
3	Dimethyl sulfide	62	C2H6S	000075-18-3	94
4	Dimethyl sulfide	62	C2H6S	000075-18-3	90
5	Borane-methyl sulfide complex	76	C2H9BS	013292-87-0	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

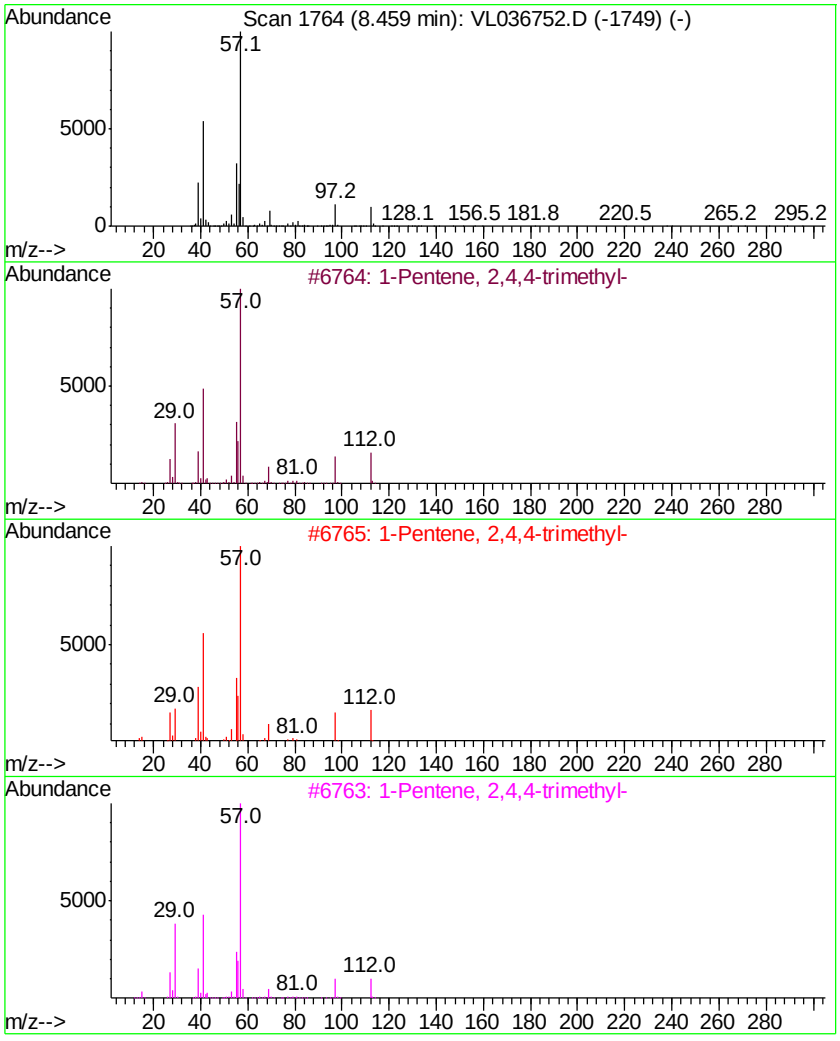
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

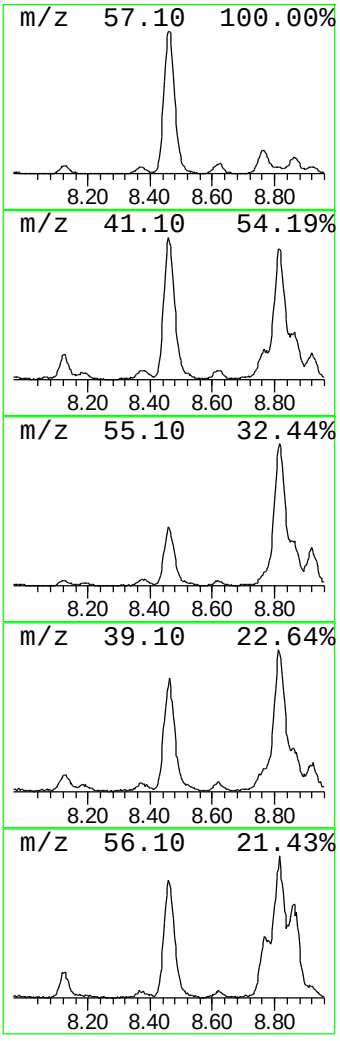
****

Peak Number 2 1-Pentene, 2,4,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.46	8.50 ppbv	6963920	1,4-Difluorobenzene	7.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	91
2	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	91
3	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	91
4	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	58
5	1-Hexene, 5,5-dimethyl-	112	C8H16	007116-86-1	45





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

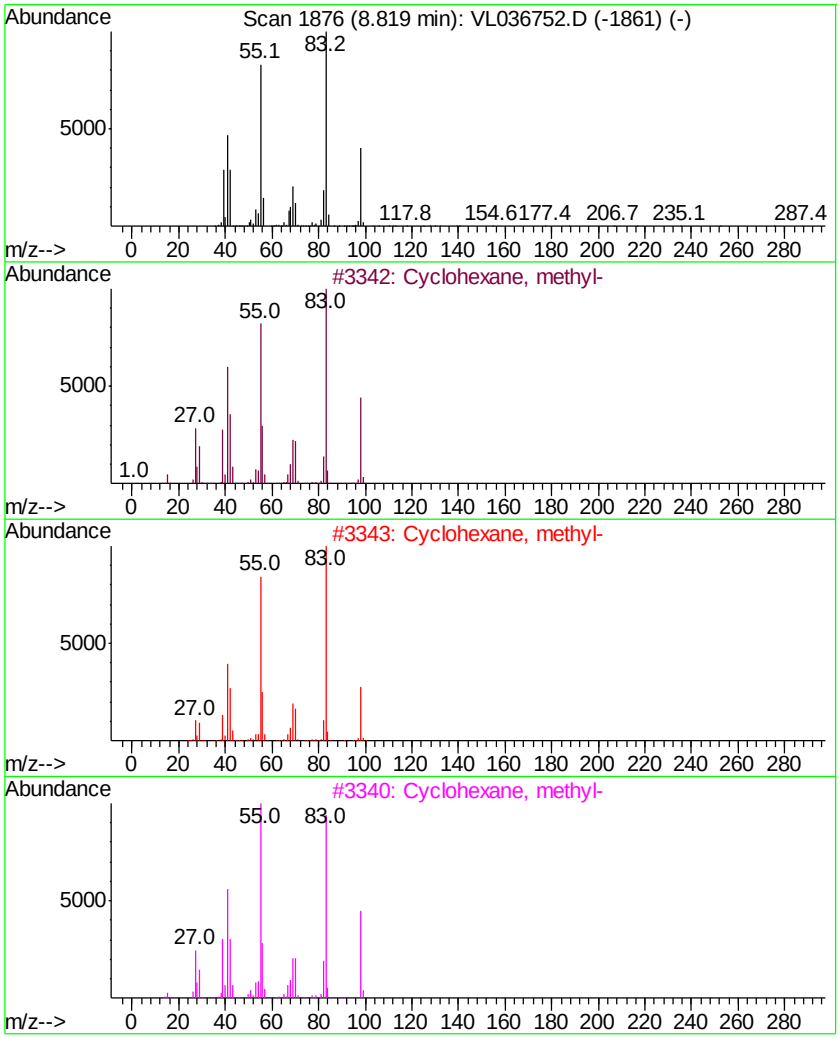
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

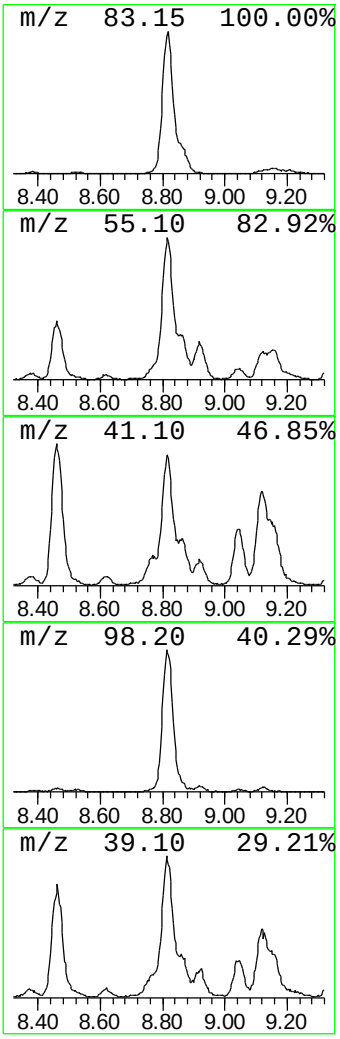
****

Peak Number 3 Cyclohexane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.82	13.33 ppbv	10913300	1,4-Difluorobenzene	7.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, methyl-	98	C7H14	000108-87-2	87
2	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
3	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
4	Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

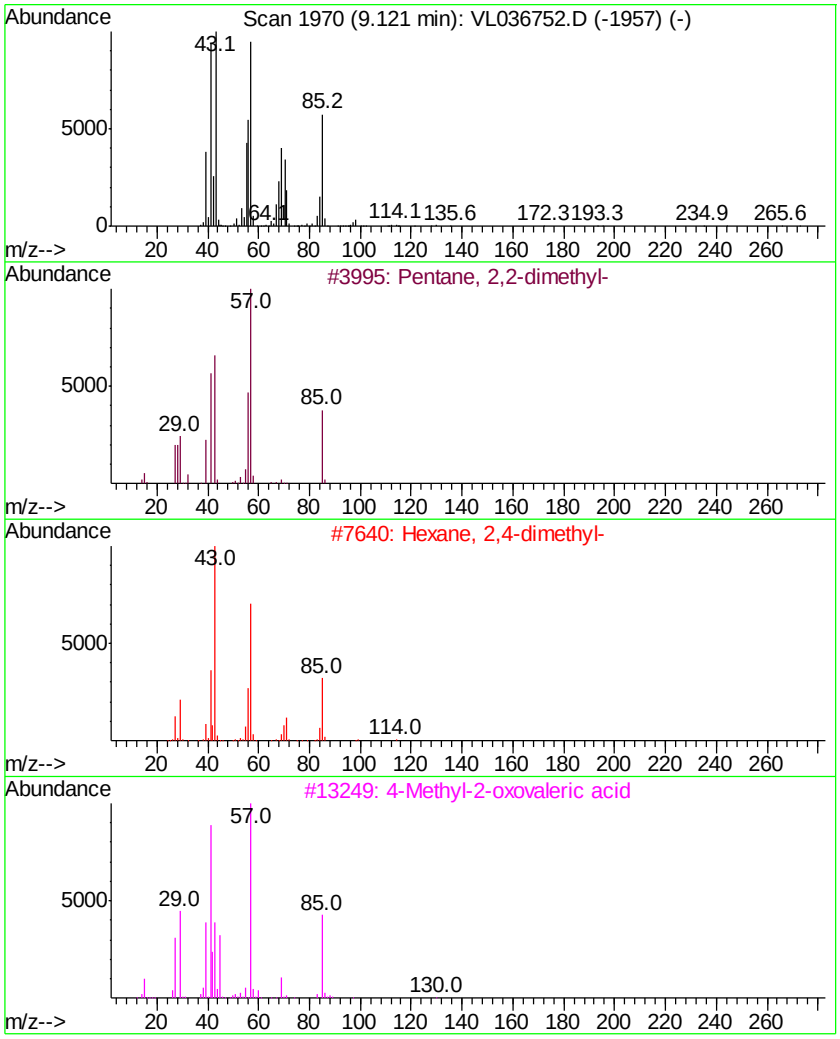
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

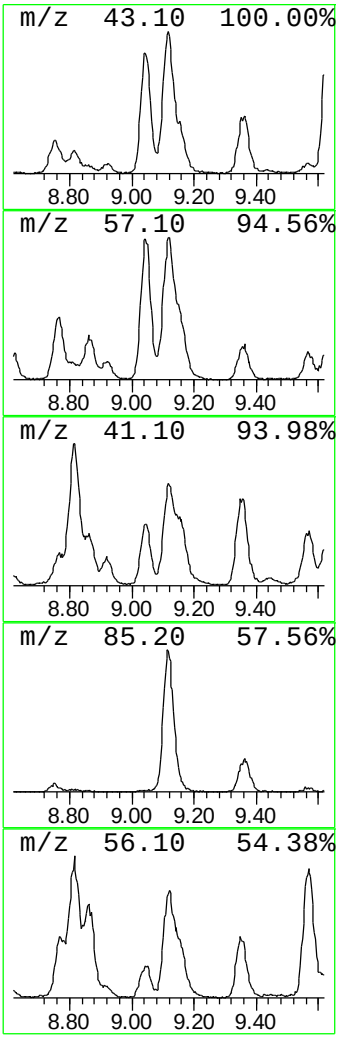
****

Peak Number 4 Pentane, 2,2-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.12	10.82 ppbv	8857920	1,4-Difluorobenzene	7.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	50
2	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	47
3	4-Methyl-2-oxovaleric acid	130	C6H10O3	000816-66-0	43
4	Pentane, 2,2-dimethyl-	100	C7H16	000590-35-2	38
5	Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	38





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

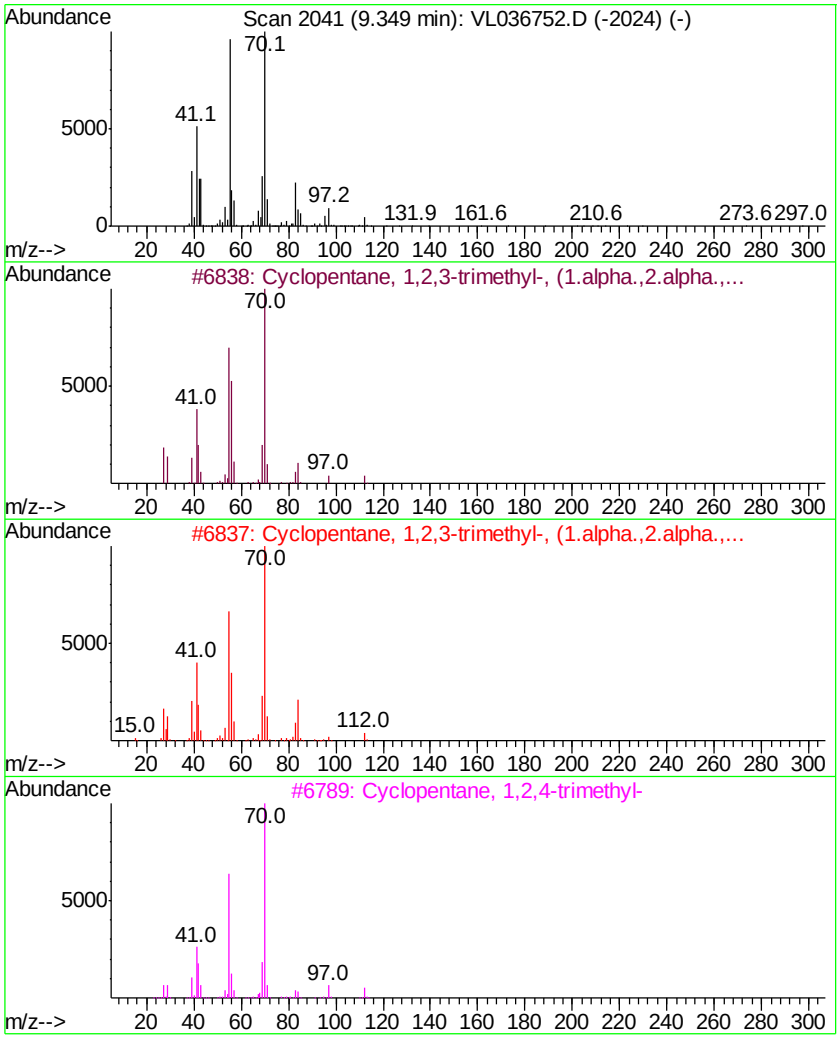
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

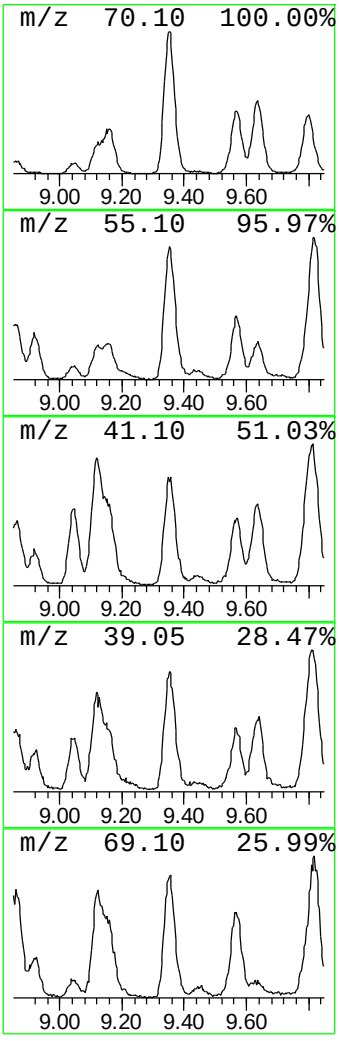
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Cyclopentane, 1,2,3-trimeth... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	8.71 ppbv	7129300	1,4-Difluorobenzene	7.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	72
2	Cyclopentane, 1,2,3-trimethyl-, ...	112	C8H16	002613-69-6	72
3	Cyclopentane, 1,2,4-trimethyl-	112	C8H16	002815-58-9	64
4	Heptane, 3-methylene-	112	C8H16	001632-16-2	64
5	Heptane, 3-methylene-	112	C8H16	001632-16-2	59





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

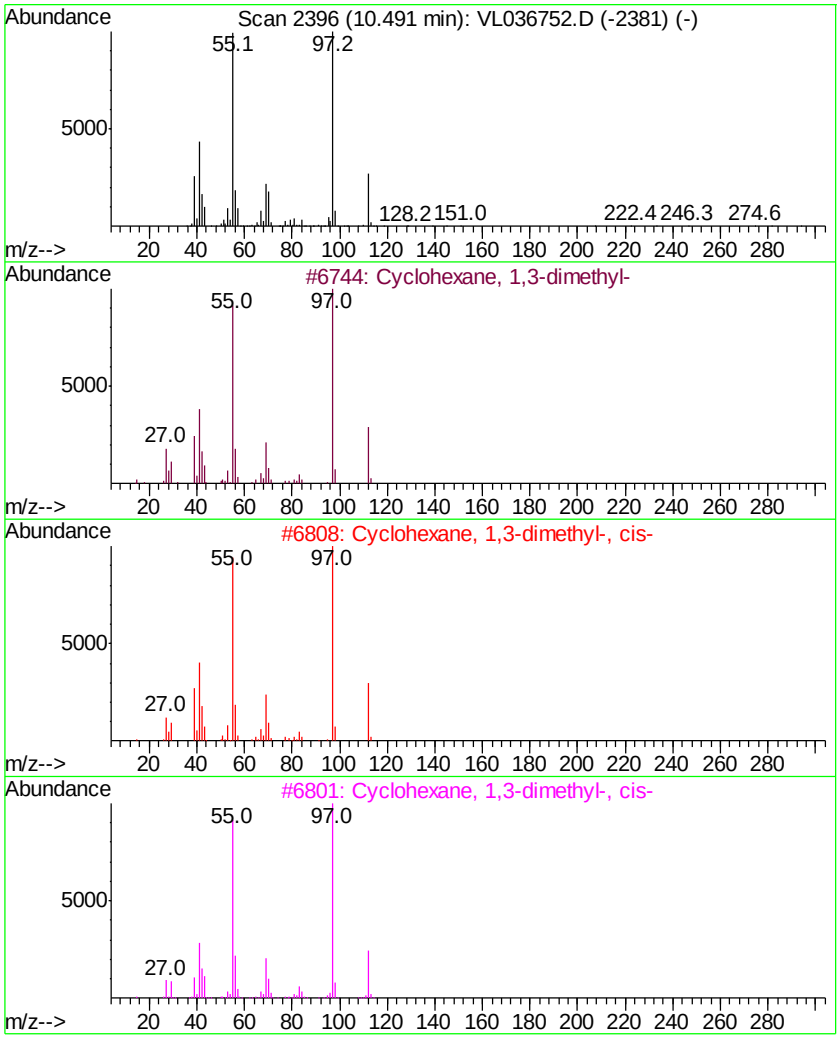
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

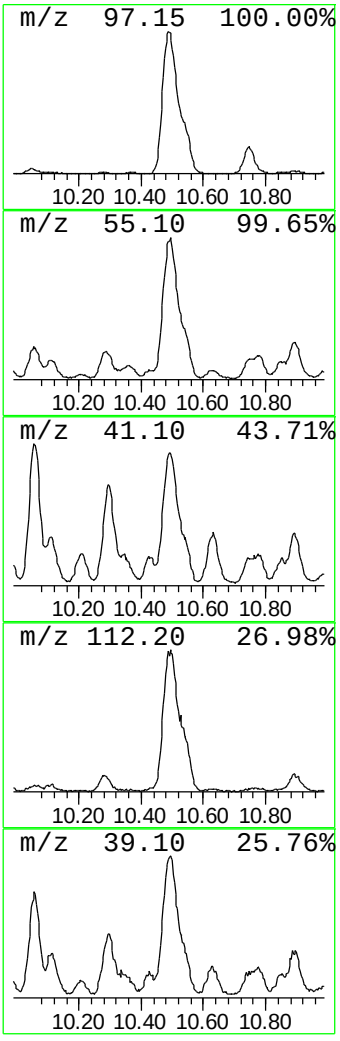
****

Peak Number 6 Cyclohexane, 1,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	12.59 ppbv	17355400	Chlorobenzene-d5	12.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	90
2	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	87
3	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	87
4	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	83
5	Cyclohexane, 1,4-dimethyl-, cis-	112	C8H16	000624-29-3	81





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

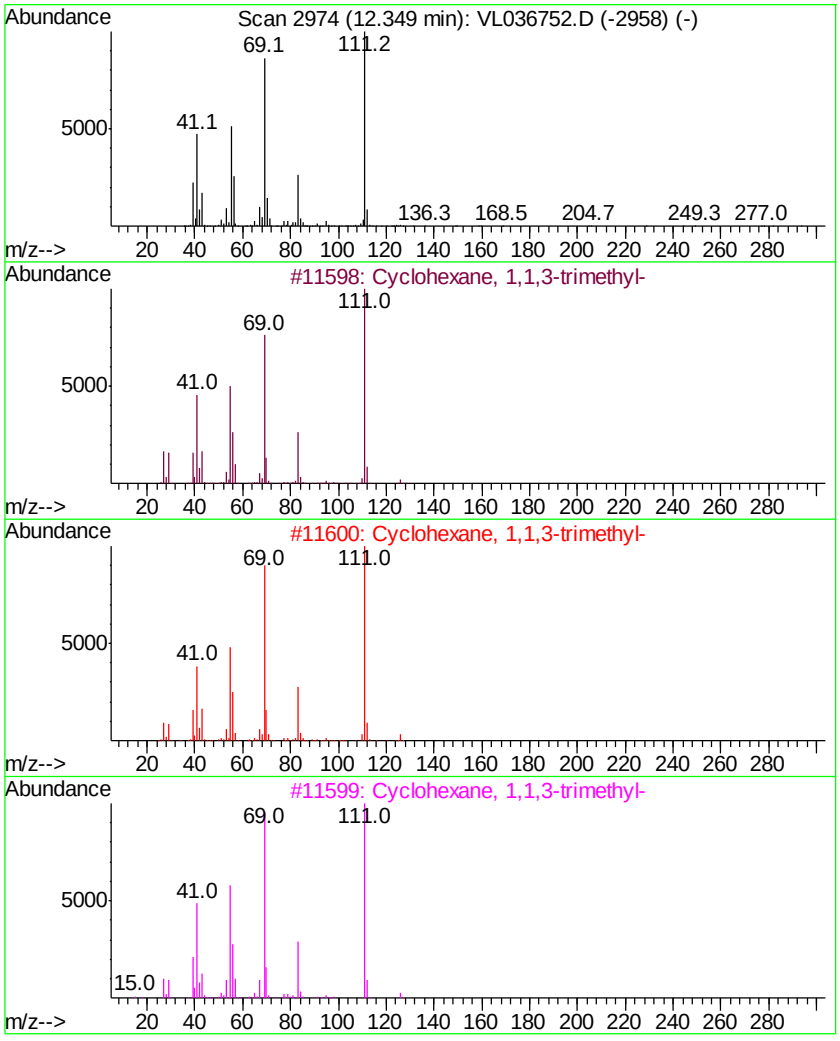
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

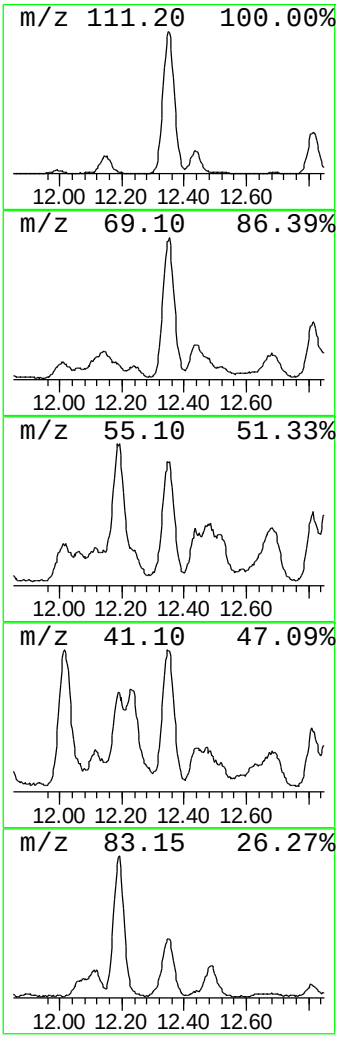
****

Peak Number 7 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	9.01 ppbv	12422500	Chlorobenzene-d5	12.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
2	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
3	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
4	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
5	Cyclooctane, butyl-	168	C12H24	016538-93-5	72





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

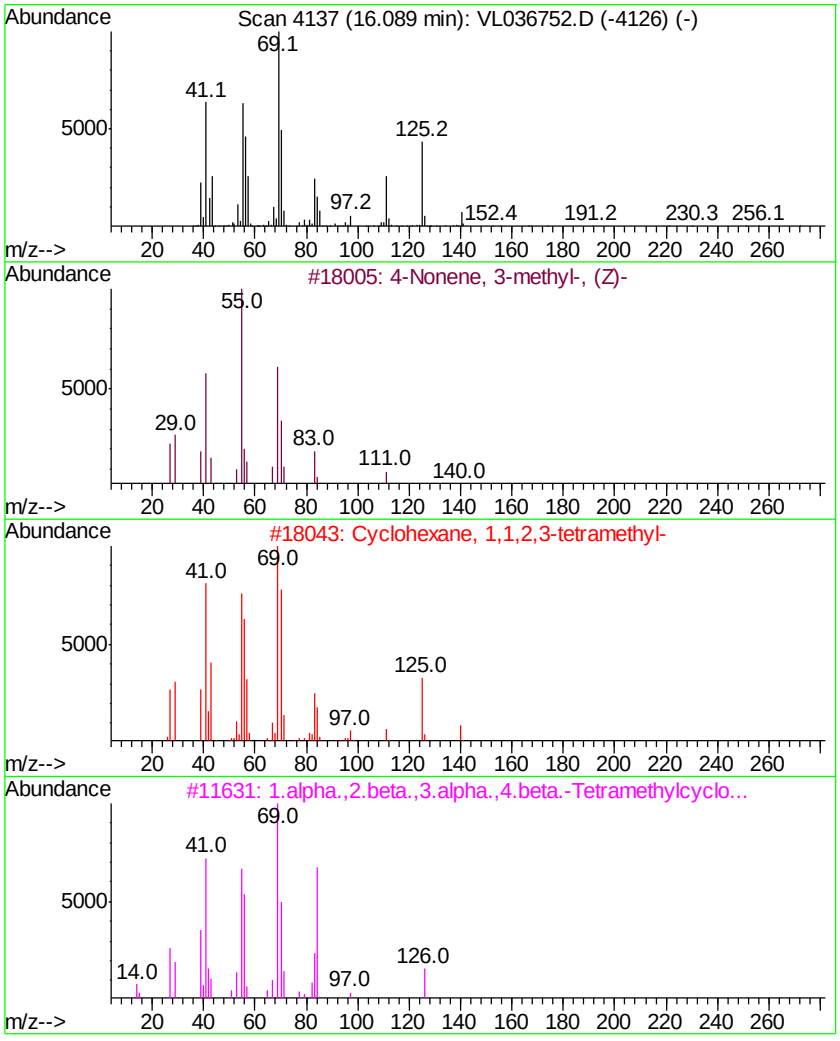
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

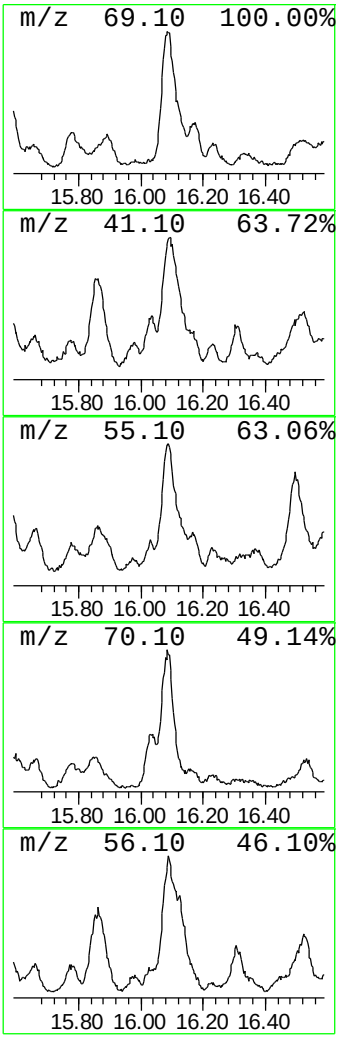
****

Peak Number 8 4-Nonene, 3-methyl-, (Z)- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.09	8.96 ppbv	12359700	Chlorobenzene-d5	12.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Nonene, 3-methyl-, (Z)-	140	C10H20	063830-69-3	58
2	Cyclohexane, 1,1,2,3-tetramethyl-	140	C10H20	006783-92-2	55
3	1.alpha.,2.beta.,3.alpha.,4.beta...	126	C9H18	002532-67-4	52
4	Cyclohexane, 2,4-diethyl-1-methyl-	154	C11H22	061142-70-9	47
5	Cyclopentane, ethyl-	98	C7H14	001640-89-7	47





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

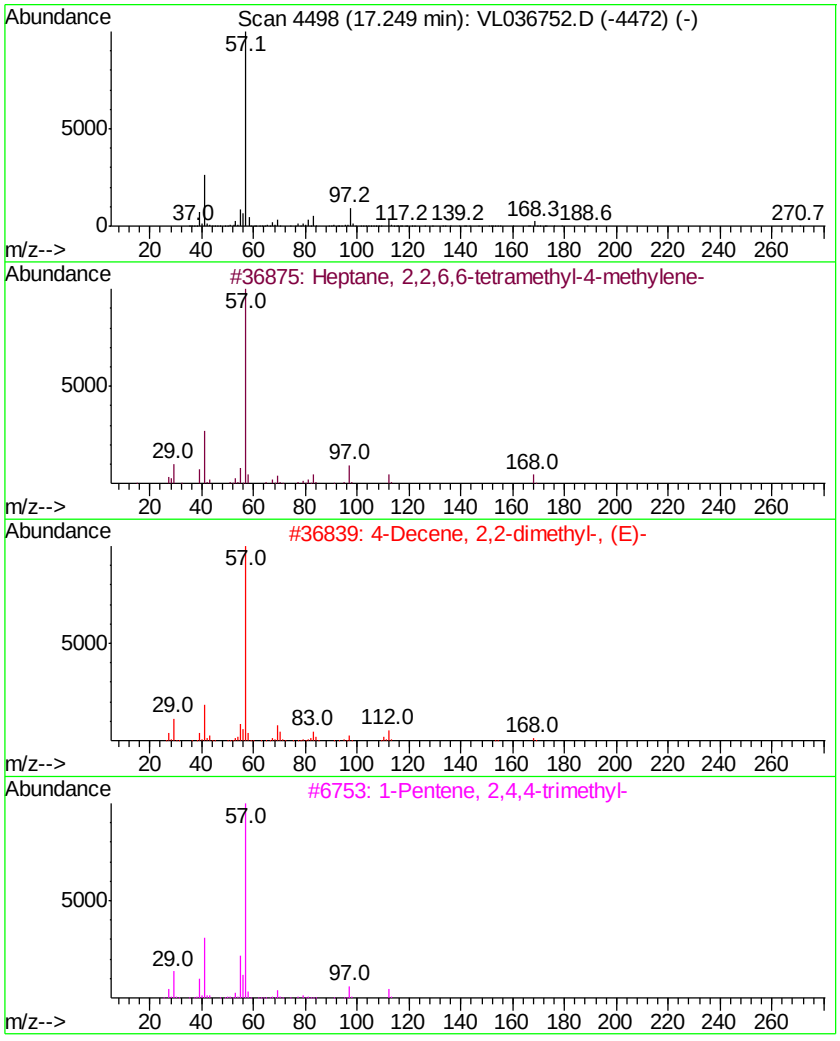
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

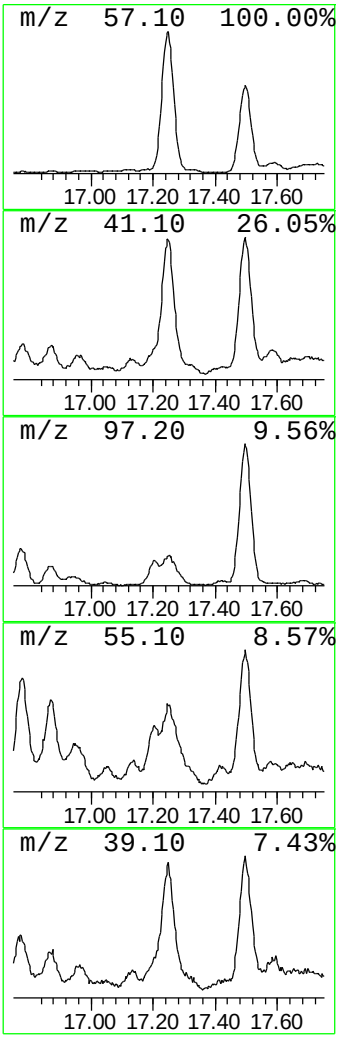
****

Peak Number 9 Heptane, 2,2,6,6-tetramethy... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	14.40 ppbv	19848700	Chlorobenzene-d5	12.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,6,6-tetramethyl-4-m...	168	C12H24	000141-70-8	83
2	4-Decene, 2,2-dimethyl-, (E)-	168	C12H24	055534-69-5	53
3	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	47
4	Nonane, 2,2,4,4,6,8,8-heptamethyl-	226	C16H34	004390-04-9	38
5	1-Pentene, 4,4-dimethyl-	98	C7H14	000762-62-9	37





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

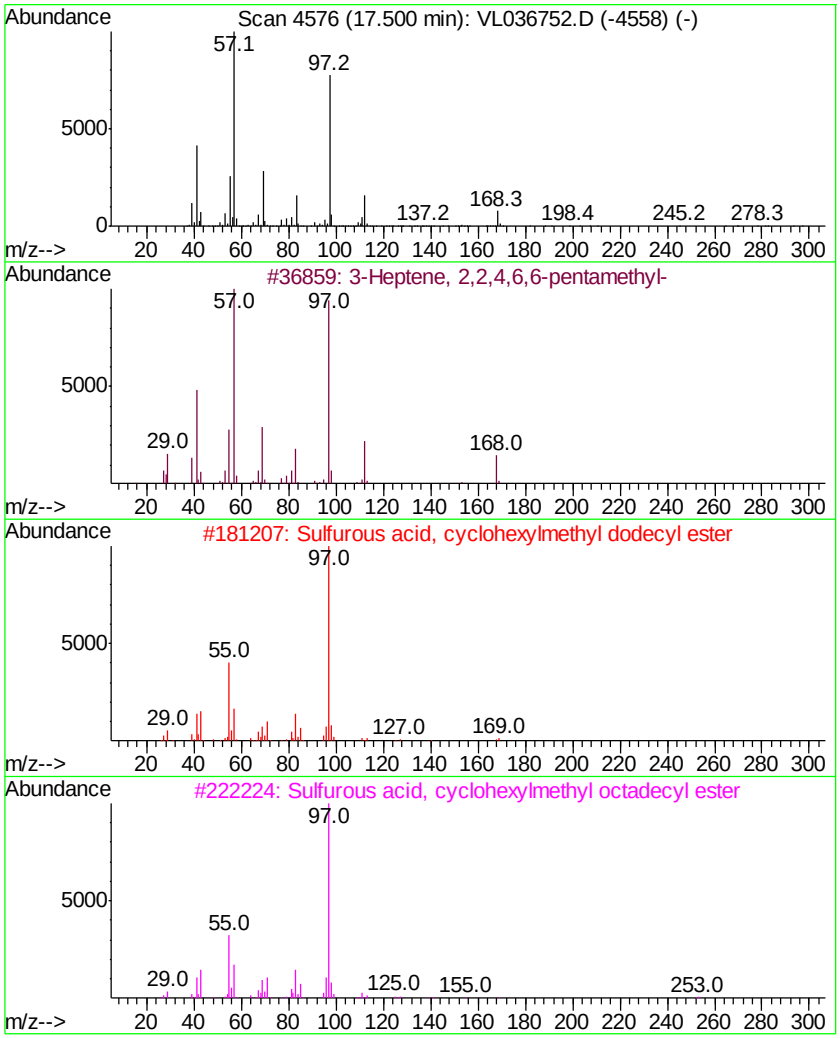
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

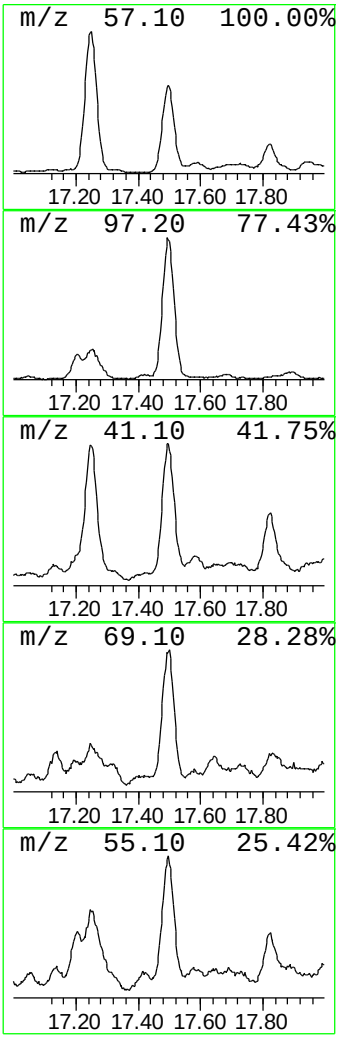
****

Peak Number 10 3-Heptene, 2,2,4,6,6-pentam... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.50	11.98 ppbv	16513600	Chlorobenzene-d5	12.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptene, 2,2,4,6,6-pentamethyl-	168	C12H24	000123-48-8	91
2	Sulfurous acid, cyclohexylmethyl...	346	C19H38O3S	1000309-22-0	59
3	Sulfurous acid, cyclohexylmethyl...	430	C25H50O3S	1000309-22-6	59
4	Sulfurous acid, cyclohexylmethyl...	388	C22H44O3S	1000309-22-3	59
5	Sulfurous acid, cyclohexylmethyl...	360	C20H40O3S	1000309-22-1	59





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL040821\
Data File : VL036752.D
Acq On : 8 Apr 2021 15:58
Operator : SY/AP
Sample : M1981-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Mar 25 09:42:40 2021

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dimethyl sulfide	4.25	33.4	ppbv	19449700	1	5.66	5826590	10.0
1-Pentene, 2,4,4-...	8.46	8.5	ppbv	6963920	2	7.17	8189180	10.0
Cyclohexane, methyl-	8.82	13.3	ppbv	10913300	2	7.17	8189180	10.0
Pentane, 2,2-dime...	9.12	10.8	ppbv	8857920	2	7.17	8189180	10.0
Cyclopentane, 1,2...	9.35	8.7	ppbv	7129300	2	7.17	8189180	10.0
Cyclohexane, 1,3-...	10.49	12.6	ppbv	17355400	3	12.09	13787200	10.0
Cyclohexane, 1,1,...	12.35	9.0	ppbv	12422500	3	12.09	13787200	10.0
4-Nonene, 3-methy...	16.09	9.0	ppbv	12359700	3	12.09	13787200	10.0
Heptane, 2,2,6,6-...	17.25	14.4	ppbv	19848700	3	12.09	13787200	10.0
3-Heptene, 2,2,4,...	17.50	12.0	ppbv	16513600	3	12.09	13787200	10.0