LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Title : VOC Analysis

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.402	64	71	85	rVB2	70619	76473	19.85%	1.915%
2	1.681	151	158	174	rVB	36021	46705	12.13%	1.169%
3	2.273	332	342	355	rBV	75229	115289	29.93%	2.886%
4	2.447	386	396	404	rBV	3380	5361	1.39%	0.134%
5	2.556	427	430	434	rVB	254	171	0.04%	0.004%
6	2.617	445	449	456	rVB2	267	342	0.09%	0.009%
7	2.836	513	517	526	rVB3	390	464	0.12%	0.012%
8	2.987	555	564	576	rVB	7159	12474	3.24%	0.312%
9	3.527	729	732	736	rVB	182	169	0.04%	0.004%
10	3.553	736	740	743	rBV	194	212	0.06%	0.005%
11	3.675	776	778	786	rVB	116	109	0.03%	0.003%
12	3.820	820	823	826	rBV	143	142	0.04%	0.004%
13	3.938	856	860	862	rBV	148	148	0.04%	0.004%
14	4.096	904	909	912	rVB	165	195	0.05%	0.005%
15	4.112	912	914	918	rBB	140	117	0.03%	0.003%
16	4.180	921	935	942	rBV	41988	95091	24.69%	2.381%
17	4.405	1003	1005	1006	rBV	214	107	0.03%	0.003%
18	4.652	1065	1082	1100	rBV3	64822	150942	39.19%	3.779%
19	4.807	1127	1130	1133	rVB	275	237	0.06%	0.006%
20	4.839	1136	1140	1142	rBV2	130	116	0.03%	0.003%
21	4.932	1166	1169	1173	rVB	303	263	0.07%	0.007%
22	4.961	1175	1178	1180	rBB	146	100	0.03%	0.003%
23	4.980	1181	1184	1188	rBV	259	207	0.05%	0.005%
24	5.009	1188	1193	1196	rVB	100	103	0.03%	0.003%
25	5.086	1214	1217	1219	rVV	132	95	0.02%	0.002%
26	5.189	1246	1249	1251	rBV	148	133	0.03%	0.003%
27	5.344	1274	1297	1322	rBV2	129568	385168	100.00%	9.643%
28	5.450	1328	1330	1335	rVB2	184	168	0.04%	0.004%
29	5.520	1349	1352	1355	rBB	154	127	0.03%	0.003%
30	5.540	1355	1358	1360	rBV	130	113	0.03%	0.003%
31	5.646	1388	1391	1395	rBV	201	223	0.06%	0.006%
32	5.887	1453	1466	1489	rBV	136026	265352	68.89%	6.643%
33	6.025	1507	1509	1512	rVB2	235	133	0.03%	0.003%
34	6.044	1513	1515	1518	rBB	135	94	0.02%	0.002%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Title : VOC Analysis

35	6.083	1523	1527	1529	rBV	148	155	0.04%	0.004%
36	6.131	1539	1542	1547	rBV	155	198	0.05%	0.005%
37	6.192	1552	1561	1572	rVB4	4261	8062	2.09%	0.202%
38	6.334	1592	1605	1627	rBV	91830	183132	47.55%	4.585%
39	6.511	1655	1660	1663	rBB	168	193	0.05%	0.005%
40	6.533	1664	1667	1672	rBV	162	220	0.06%	0.006%
41	6.575	1677	1680	1684	rBB	165	128	0.03%	0.003%
42	6.601	1685	1688	1692	rBV	179	202	0.05%	0.005%
43	6.736	1727	1730	1735	rVB	115	116	0.03%	0.003%
44	6.864	1762	1770	1780	rVB3	759	1360	0.35%	0.034%
45	7.016	1814	1817	1822	rBV	141	190	0.05%	0.005%
46	7.089	1838	1840	1844	rVB	166	143	0.04%	0.004%
47	7.112	1844	1847	1849	rBV	142	120	0.03%	0.003%
48	7.151	1856	1859	1861	rBV	175	148	0.04%	0.004%
49	7.231	1871	1884	1905	rVV	51781	92918	24.12%	2.326%
50	7.340	1915	1918	1921	rBV	177	171	0.04%	0.004%
51	7.385	1927	1932	1934	rBV2	496	492	0.13%	0.012%
52	7.565	1975	1988	2009	rBV	173200	297752	77.30%	7.454%
53	7.649	2012	2014	2018	rVV2	418	283	0.07%	0.007%
54	7.694	2026	2028	2031	rBV	278	182	0.05%	0.005%
55	7.771	2048	2052	2056	rVB	217	215	0.06%	0.005%
56	7.803	2056	2062	2066	rBV	160	258	0.07%	0.006%
57	7.851	2066	2077	2093	rVV2	36200	61888	16.07%	1.549%
58	7.906	2093	2094	2097	rVV	334	152	0.04%	0.004%
59	7.964	2107	2112	2113	rBV	177	158	0.04%	0.004%
60	8.183	2166	2180	2190	rBV3	23343	54819	14.23%	1.372%
61	8.311	2211	2220	2241	rVB	151743	263564	68.43%	6.599%
62	8.581	2301	2304	2309	rBV2	319	236	0.06%	0.006%
63	9.089	2451	2462	2478	rBV	202015	330605	85.83%	8.277%
64	10.433	2867	2880	2893	rBV	121513	192728	50.04%	4.825%
65	10.617	2925	2937	2950	rBV2	12338	25586	6.64%	0.641%
66	10.736	2970	2974	2982	rVB2	413	422	0.11%	0.011%
67	10.880	3011	3019	3024	rBV3	649	1066	0.28%	0.027%
68	11.485	3195	3207	3226	rBV	200821	313398	81.37%	7.846%
69	11.588	3237	3239	3243	rVV2	162	105	0.03%	0.003%
70	11.697	3270	3273	3279	rVB	102	90	0.02%	0.002%
71	11.752	3283	3290	3299	rBV3	1009	1410	0.37%	0.035%

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Title : VOC Analysis

72	11.861	3312	3324	3342	rBV	173292	275148	71.44%	6.889%
73	11.990	3362	3364	3368	rVB2	169	120	0.03%	0.003%
74	12.285	3395	3456	3459	rBV6	71923	352906	91.62%	8.835%
75	12.745	3597	3599	3601	rVB2	300	135	0.04%	0.003%
76	13.105	3707	3711	3712	rBV	194	129	0.03%	0.003%
77	13.128	3712	3718	3721	rBV2	644	680	0.18%	0.017%
78	13.404	3801	3804	3806	rBV	142	112	0.03%	0.003%
79	13.481	3825	3828	3832	rVB	206	146	0.04%	0.004%
80	13.719	3899	3902	3904	rBV	241	150	0.04%	0.004%
81	13.771	3913	3918	3921	rBV2	266	252	0.07%	0.006%
82	13.806	3925	3929	3932	rBV2	183	156	0.04%	0.004%
83	13.880	3947	3952	3955	rBV	273	242	0.06%	0.006%
84	13.928	3965	3967	3970	rVB2	267	171	0.04%	0.004%
85	14.108	4020	4023	4026	rBV	188	145	0.04%	0.004%
86	14.240	4036	4064	4068	rBV8	6286	21041	5.46%	0.527%
87	14.346	4095	4097	4098	rBV	459	212	0.06%	0.005%
88	14.491	4139	4142	4143	rBV	204	118	0.03%	0.003%
89	14.591	4143	4173	4217	rVV5	27386	138227	35.89%	3.461%
90	14.880	4261	4263	4264	rBV	221	89	0.02%	0.002%
91	15.018	4302	4306	4311	rVB3	524	417	0.11%	0.010%
92	15.626	4489	4495	4498	rBV3	793	1058	0.27%	0.026%
93	15.880	4565	4574	4586	rBV2	3334	5737	1.49%	0.144%
94	16.321	4709	4711	4712	rBV2	343	109	0.03%	0.003%
95	16.362	4721	4724	4727	rBV2	470	325	0.08%	0.008%
96	16.456	4739	4753	4763	rBV2	5011	15674	4.07%	0.392%
97	16.552	4775	4783	4794	rVB	90097	132433	34.38%	3.316%
98	16.703	4822	4830	4839	rBV	12997	18931	4.91%	0.474%
99	17.279	5003	5009	5020	rVB6	6671	9534	2.48%	0.239%
100	17.485	5065	5073	5084	rVB6	16954	29858	7.75%	0.748%

Sum of corrected areas: 3994263

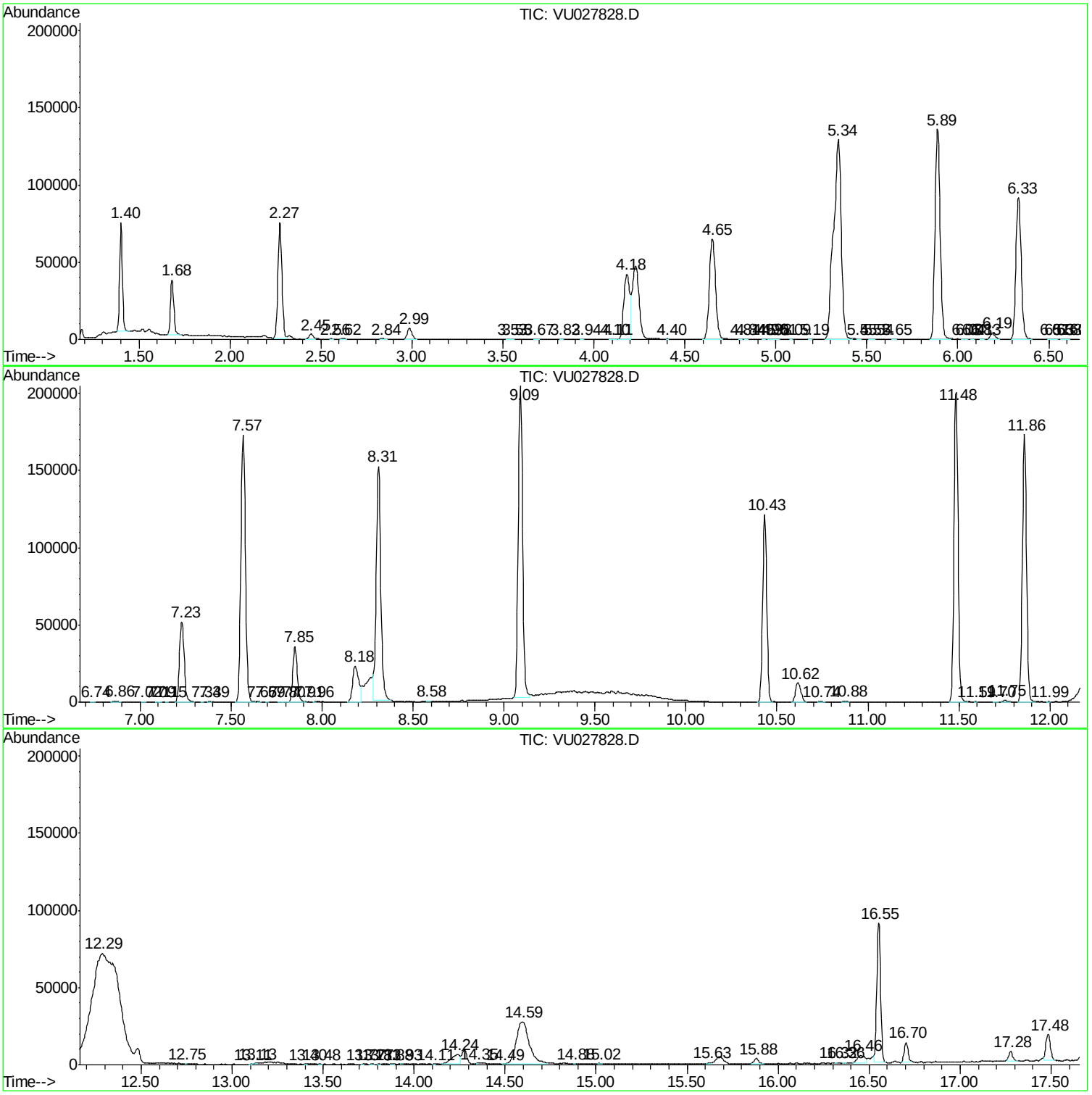
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

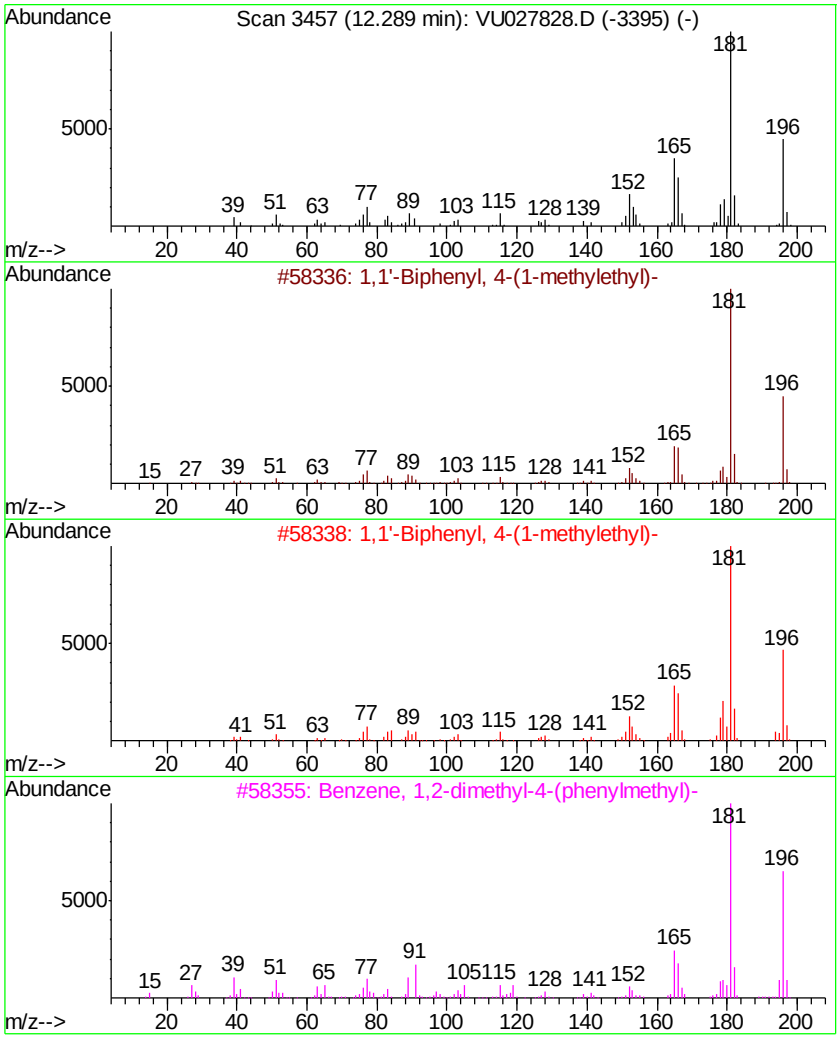
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

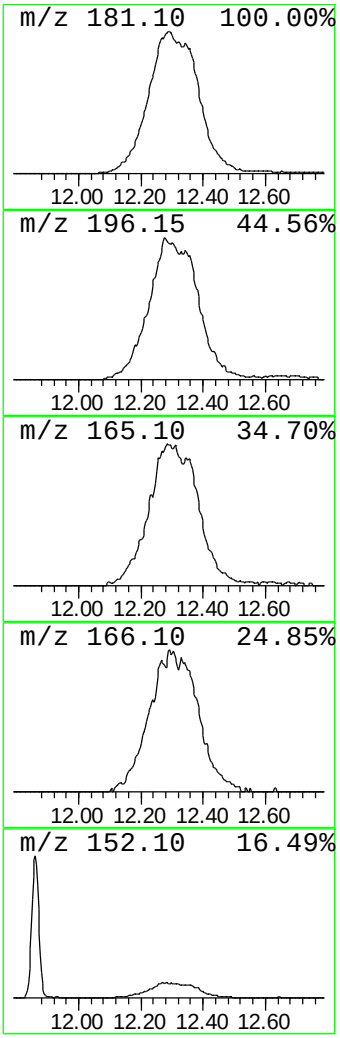
****

Peak Number 4 1,1'-Biphenyl, 4-(1-methyle... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	56.30 ug/L	352906	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-(1-methylethyl)-	196	C15H16	007116-95-2	97
2	1,1'-Biphenyl, 4-(1-methylethyl)-	196	C15H16	007116-95-2	94
3	Benzene, 1,2-dimethyl-4-(phenylm...	196	C15H16	013540-56-2	91
4	Methane, di-p-tolyl-	196	C15H16	004957-14-6	91
5	Benzene, 2,4-dimethyl-1-(phenylm...	196	C15H16	028122-28-3	91





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

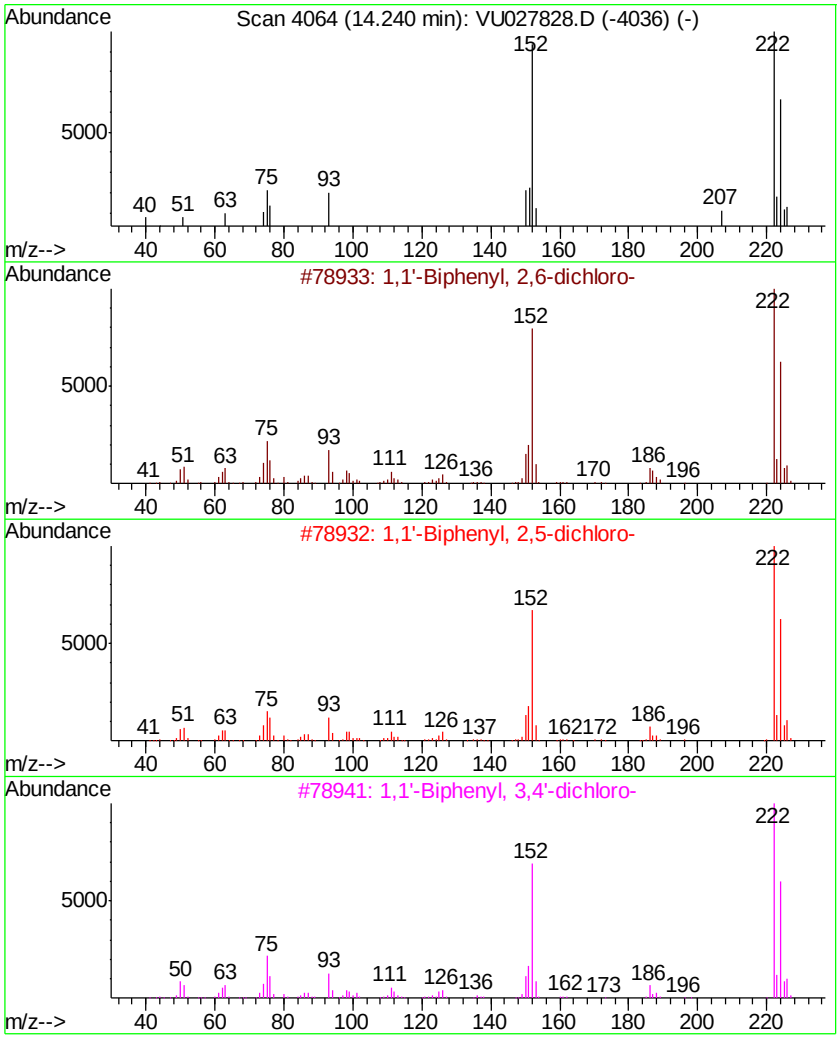
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

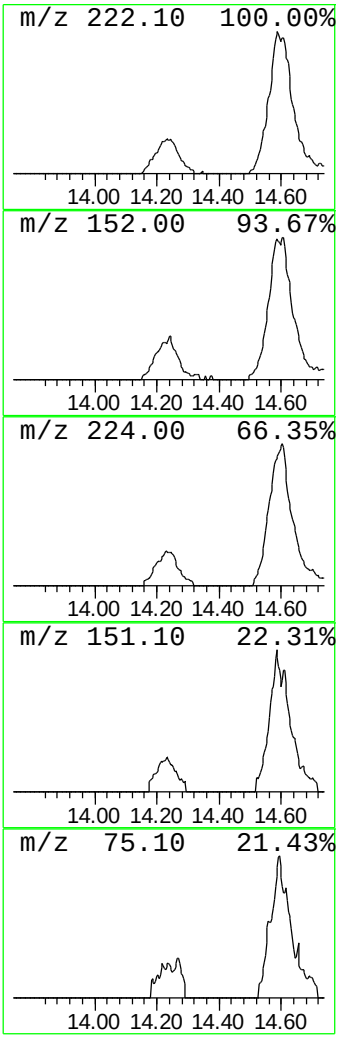
****

Peak Number 5 1,1'-Biphenyl, 2,6-dichloro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.24	3.36 ug/L	21041	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,6-dichloro-	222	C12H8Cl2	033146-45-1	96
2	1,1'-Biphenyl, 2,5-dichloro-	222	C12H8Cl2	034883-39-1	95
3	1,1'-Biphenyl, 3,4'-dichloro-	222	C12H8Cl2	002974-90-5	95
4	1,1'-Biphenyl, 2,6-dichloro-	222	C12H8Cl2	033146-45-1	95
5	1,1'-Biphenyl, 2,4-dichloro-	222	C12H8Cl2	033284-50-3	95





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

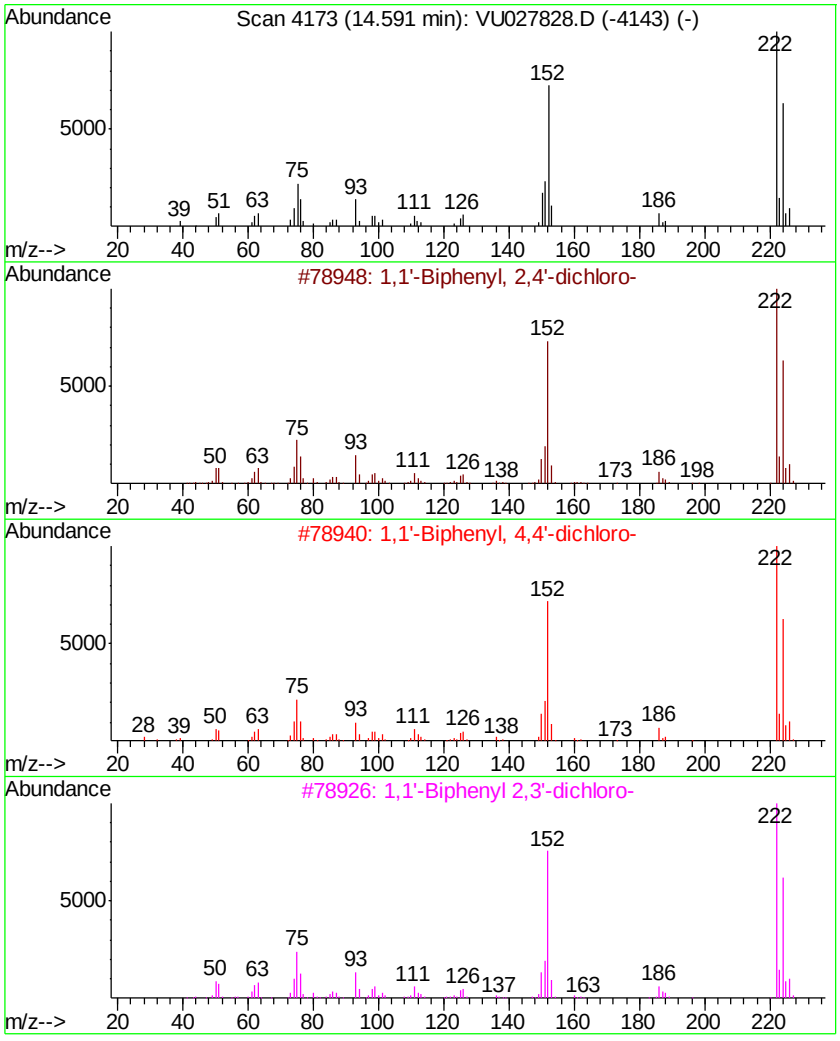
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

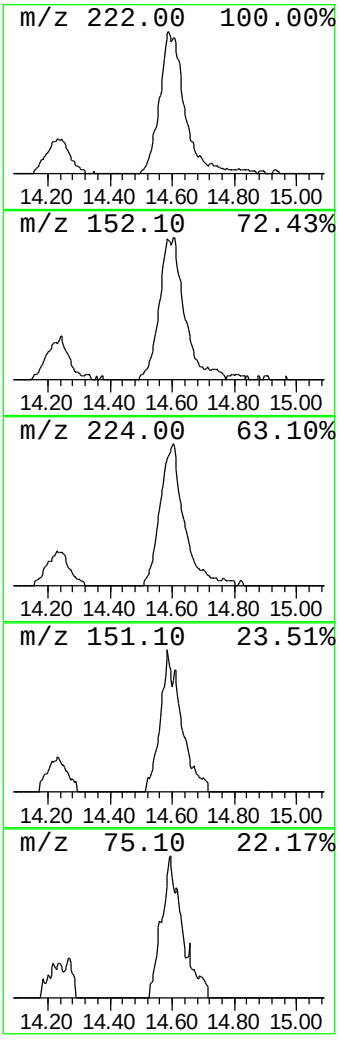
****

Peak Number 6 1,1'-Biphenyl, 2,4'-dichloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.59	22.05 ug/L	138227	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2,4'-dichloro-	222	C12H8Cl2	034883-43-7	99
2	1,1'-Biphenyl, 4,4'-dichloro-	222	C12H8Cl2	002050-68-2	99
3	1,1'-Biphenyl 2,3'-dichloro-	222	C12H8Cl2	025569-80-6	98
4	1,1'-Biphenyl, 2,4-dichloro-	222	C12H8Cl2	033284-50-3	98
5	1,1'-Biphenyl, 3,5-dichloro-	222	C12H8Cl2	034883-41-5	98





Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

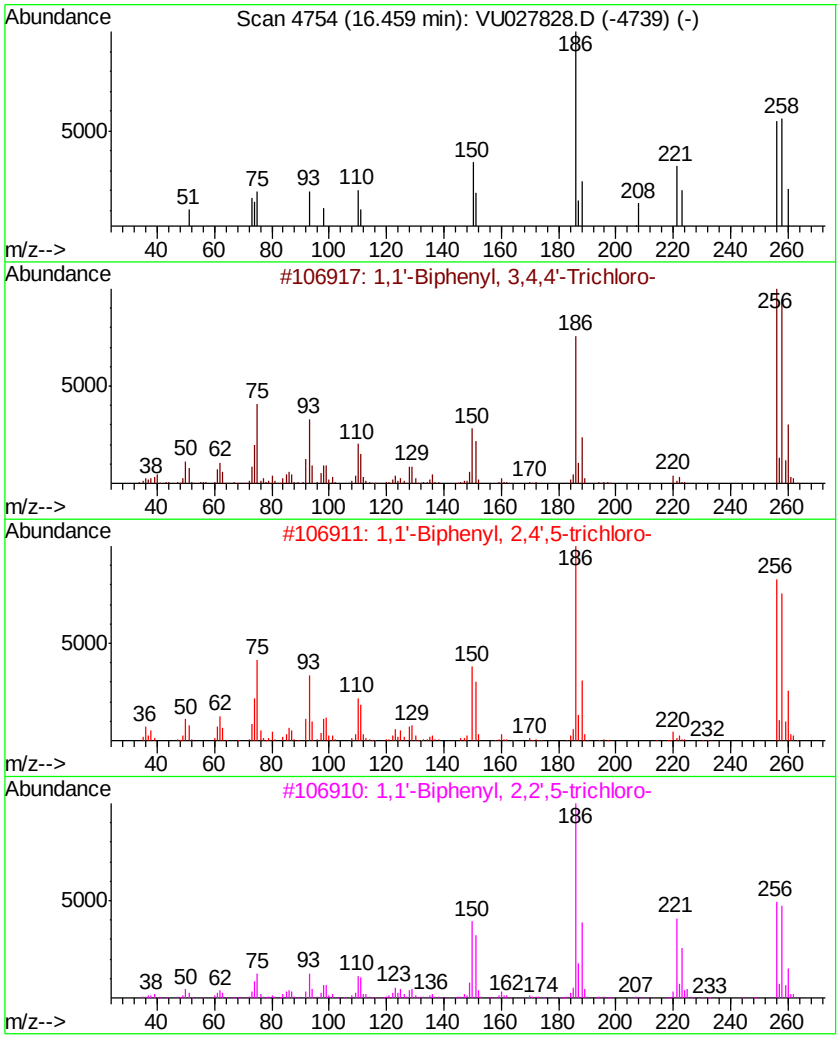
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

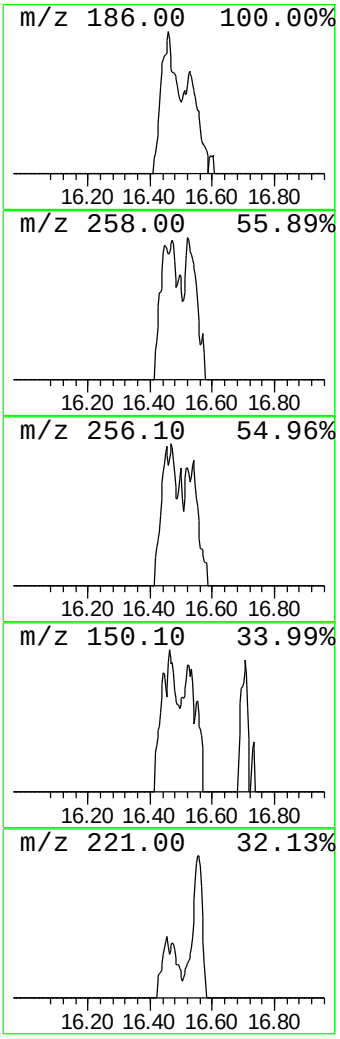
****

Peak Number 7 1,1'-Biphenyl, 3,4,4'-Trich... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.46	2.50 ug/L	15674	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 3,4,4'-Trichloro-	256	C12H7Cl3	038444-90-5	95
2	1,1'-Biphenyl, 2,4',5-trichloro-	256	C12H7Cl3	016606-02-3	90
3	1,1'-Biphenyl, 2,2',5-trichloro-	256	C12H7Cl3	037680-65-2	81
4	1,1'-Biphenyl, 2,4,6-trichloro-	256	C12H7Cl3	035693-92-6	76
5	1,1'-Biphenyl, 2,3,6-trichloro-	256	C12H7Cl3	055702-45-9	64





Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

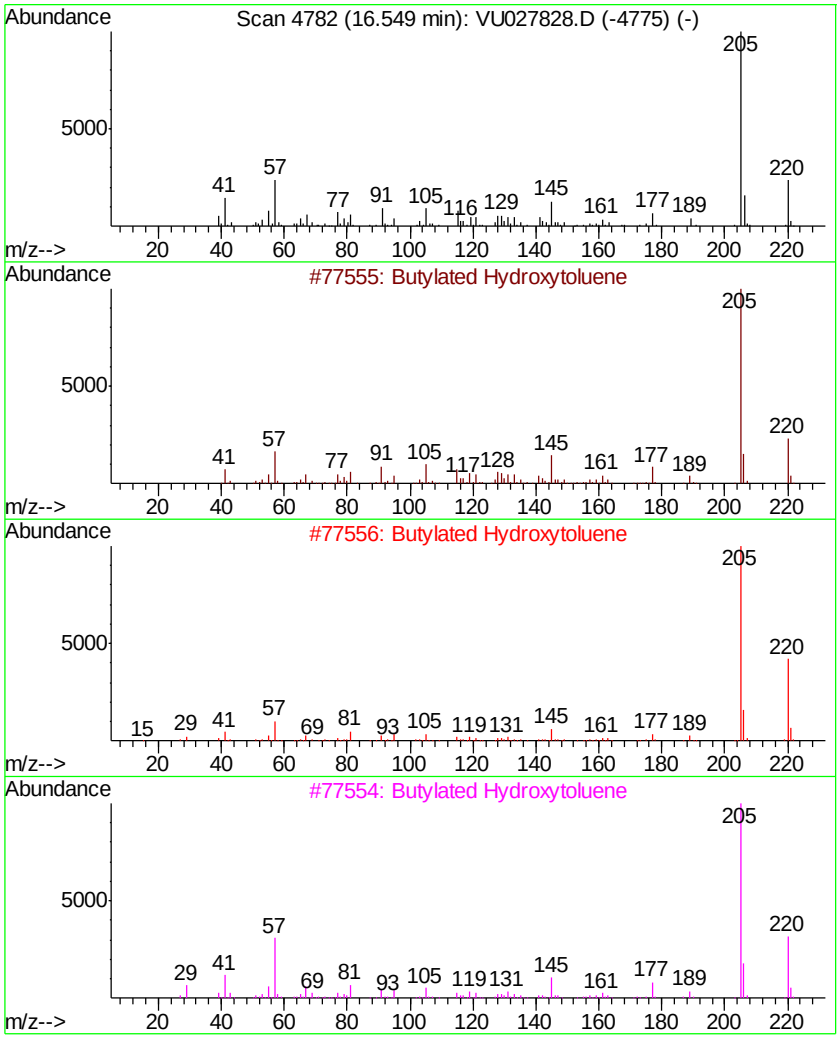
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

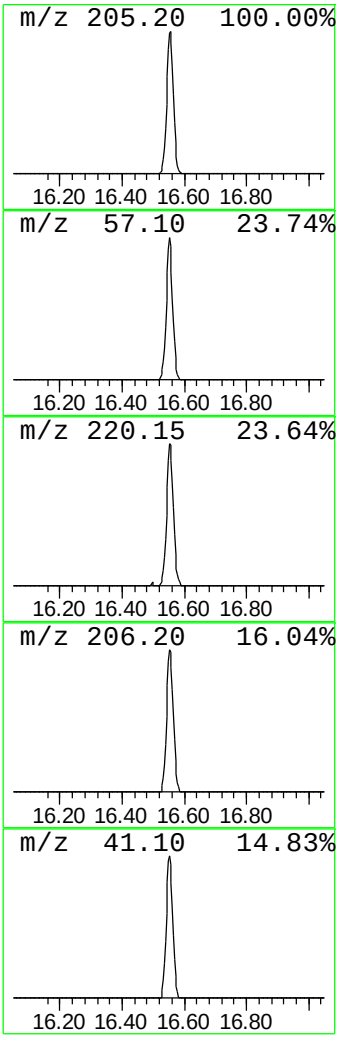
****

Peak Number 8 Butylated Hydroxytoluene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.55	21.13 ug/L	132433	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butylated Hydroxytoluene	220	C15H24O	000128-37-0	98
2	Butylated Hydroxytoluene	220	C15H24O	000128-37-0	94
3	Butylated Hydroxytoluene	220	C15H24O	000128-37-0	93
4	Butylated Hydroxytoluene	220	C15H24O	000128-37-0	90
5	Phenol, 2,4,6-tris(1-methylethyl)-	220	C15H24O	002934-07-8	81





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Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

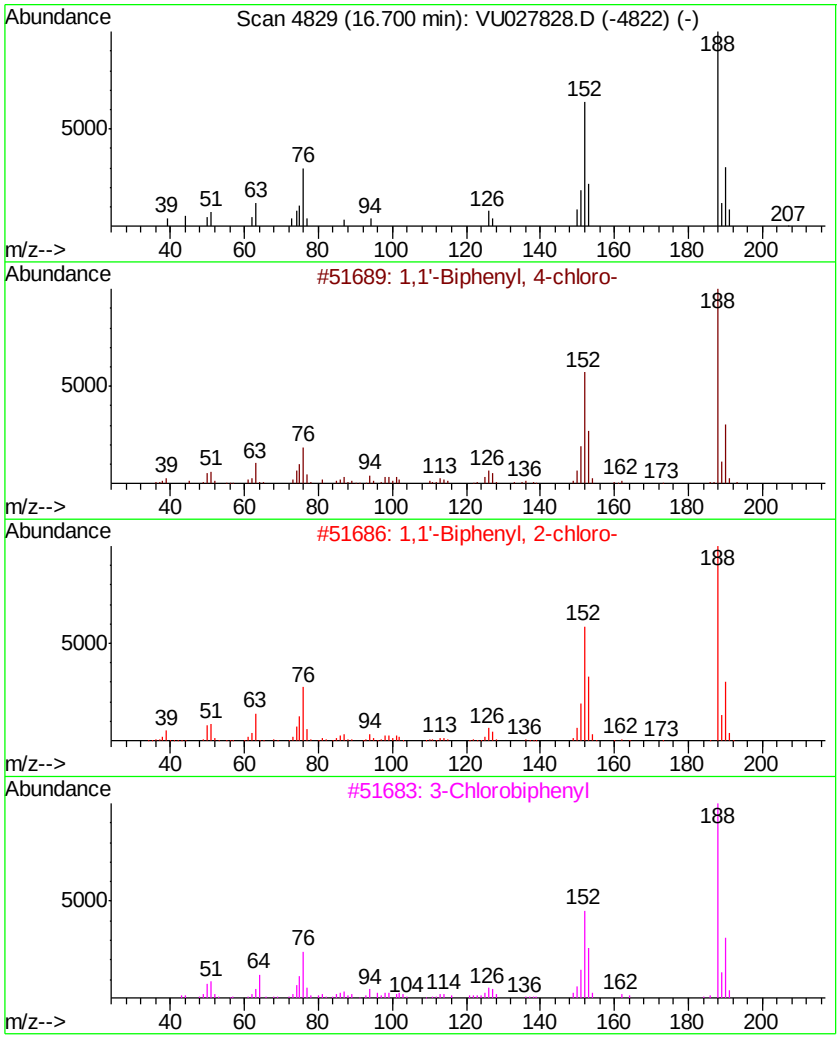
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

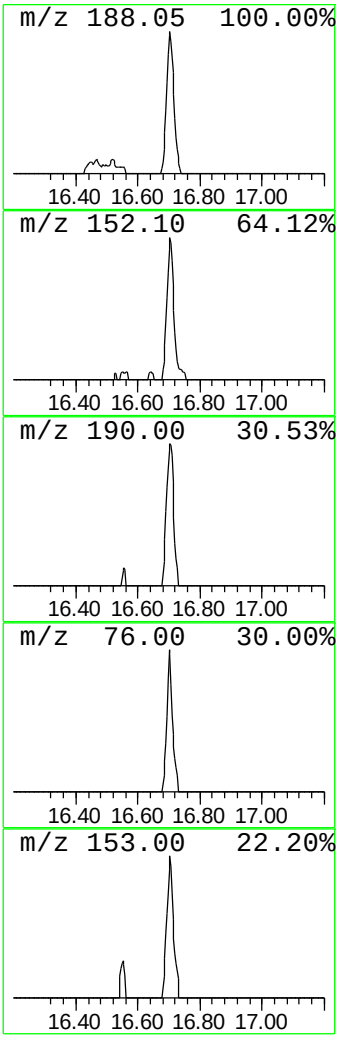
****

Peak Number 9 1,1'-Biphenyl, 4-chloro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	3.02 ug/L	18931	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-chloro-	188	C12H9Cl	002051-62-9	97
2	1,1'-Biphenyl, 2-chloro-	188	C12H9Cl	002051-60-7	95
3	3-Chlorobiphenyl	188	C12H9Cl	002051-61-8	91
4	1,1'-Biphenyl, 4-chloro-	188	C12H9Cl	002051-62-9	91
5	1,1'-Biphenyl, 4-chloro-	188	C12H9Cl	002051-62-9	90





Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

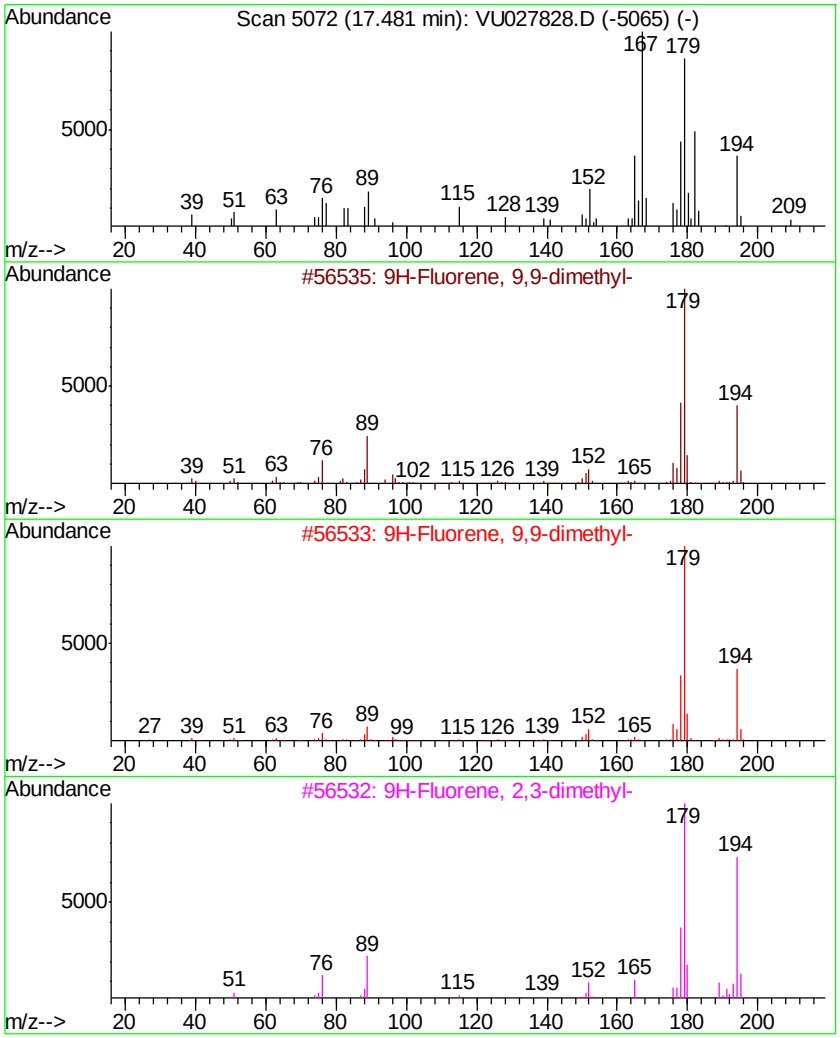
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

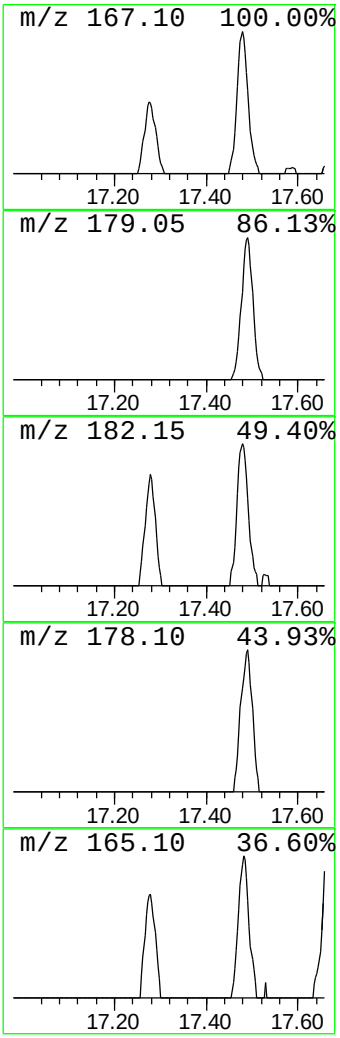
****

Peak Number 10 9H-Fluorene, 9,9-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.48	4.76 ug/L	29858	1,4-Dichlorobenzene-d4	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	91
2	9H-Fluorene, 9,9-dimethyl-	194	C15H14	004569-45-3	78
3	9H-Fluorene, 2,3-dimethyl-	194	C15H14	004612-63-9	78
4	1,1'-Biphenyl, 2-ethyl-	182	C14H14	001812-51-7	59
5	2,2'-Bis(bromomethyl)-1,1'-biphenyl	338	C14H12Br2	038274-14-5	46





Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102618\
Data File : VU027828.D
Acq On : 26 Oct 2018 13:09
Operator : MD/SY
Sample : J5668-02
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument : MSVOA_U
ClientSampleId : ETBP8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM102218WMA.M
Quant Title : VOC Analysis

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1,1'-Biphenyl, 4-...	12.29	56.3	ug/L	352906	3	11.48	313398	50.0
1,1'-Biphenyl, 2,...	14.24	3.4	ug/L	21041	3	11.48	313398	50.0
1,1'-Biphenyl, 2,...	14.59	22.1	ug/L	138227	3	11.48	313398	50.0
1,1'-Biphenyl, 3,...	16.46	2.5	ug/L	15674	3	11.48	313398	50.0
Butylated Hydroxy...	16.55	21.1	ug/L	132433	3	11.48	313398	50.0
1,1'-Biphenyl, 4-...	16.70	3.0	ug/L	18931	3	11.48	313398	50.0
9H-Fluorene, 9,9-...	17.48	4.8	ug/L	29858	3	11.48	313398	50.0