LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.175	7	15	19	rBV	10155122	17010657	80.23%	6.552%
2	2.281	29	33	39	rVB	154929	192423	0.91%	0.074%
3	3.769	281	286	294	rVB	188365	253998	1.20%	0.098%
4	3.969	316	320	324	rVV	125119	169108	0.80%	0.065%
5	6.510	748	752	759	rBV2	1792881	1671532	7.88%	0.644%
6	6.575	759	763	767	rVV	1269434	1198020	5.65%	0.461%
7	6.657	774	777	781	rBV	1784846	1556241	7.34%	0.599%
8	6.893	814	817	821	rVV	2800844	2219225	10.47%	0.855%
9	7.263	876	880	883	rBV	1908662	1716946	8.10%	0.661%
10	7.446	908	911	915	rBV	1489766	1333727	6.29%	0.514%
11	7.775	963	967	971	rBV	1420934	1087058	5.13%	0.419%
12	8.016	1005	1008	1012	rBV	2265403	1809803	8.54%	0.697%
13	8.181	1032	1036	1039	rBV	3842483	2981269	14.06%	1.148%
14	8.234	1042	1045	1059	rVB	893785	767419	3.62%	0.296%
15	9.634	1280	1283	1286	rVV	2895104	2505590	11.82%	0.965%
16	9.657	1286	1287	1292	rVV	803125	514404	2.43%	0.198%
17	9.793	1306	1310	1323	rVB	3534382	3182506	15.01%	1.226%
18	9.951	1333	1337	1340	rBV	4019471	3344400	15.77%	1.288%
19	9.981	1340	1342	1345	rVV	488372	382878	1.81%	0.147%
20	10.040	1349	1352	1361	rVV	649456	815755	3.85%	0.314%
21	10.157	1368	1372	1376	rVV	266224	269521	1.27%	0.104%
22	10.475	1422	1426	1429	rBV	4189553	3432475	16.19%	1.322%
23	10.504	1429	1431	1434	rVB2	259215	213882	1.01%	0.082%
24	10.540	1434	1437	1441	rBV2	386904	416474	1.96%	0.160%
25	10.875	1490	1494	1501	rVB4	132062	177509	0.84%	0.068%
26	11.257	1556	1559	1564	rVV	529418	484956	2.29%	0.187%
27	11.316	1564	1569	1572	rVV4	167199	243921	1.15%	0.094%
28	11.351	1572	1575	1582	rVB	448293	402835	1.90%	0.155%
29	11.457	1589	1593	1595	rBV	3230891	3276714	15.45%	1.262%
30	11.487	1595	1598	1600	rVV	6904290	6113051	28.83%	2.354%
31	11.516	1600	1603	1605	rVV	3835357	3502616	16.52%	1.349%
32	11.534	1605	1606	1610	rVV	1559008	1062612	5.01%	0.409%
33	11.692	1627	1633	1636	rBV2	1038217	1228832	5.80%	0.473%
34	11.763	1641	1645	1648	rBV2	144992	157683	0.74%	0.061%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

35	11.798	1648	1651	1654	rVB	394894	360735	1.70%	0.139%
36	11.881	1659	1665	1669	rVB2	292967	381952	1.80%	0.147%
37	11.969	1674	1680	1683	rBV	1672126	1685630	7.95%	0.649%
38	11.998	1683	1685	1690	rVB	2470065	2497181	11.78%	0.962%
39	12.045	1690	1693	1696	rVB2	401139	385954	1.82%	0.149%
40	12.086	1696	1700	1702	rBV2	1303563	1566986	7.39%	0.604%
41	12.110	1702	1704	1708	rVB	878199	725625	3.42%	0.279%
42	12.151	1708	1711	1713	rBV	128675	160083	0.76%	0.062%
43	12.275	1728	1732	1734	rBV	817130	842027	3.97%	0.324%
44	12.298	1734	1736	1742	rVB2	1263991	1260353	5.94%	0.485%
45	12.375	1747	1749	1752	rVB	151527	160499	0.76%	0.062%
46	12.428	1752	1758	1760	rBV	671468	784827	3.70%	0.302%
47	12.457	1760	1763	1766	rBV	852355	854010	4.03%	0.329%
48	12.481	1766	1767	1771	rVB	723220	607582	2.87%	0.234%
49	12.539	1771	1777	1780	rBV	1151318	1709684	8.06%	0.658%
50	12.592	1785	1786	1788	rVB	281509	180065	0.85%	0.069%
51	12.622	1788	1791	1796	rVB	1464950	1656051	7.81%	0.638%
52	12.669	1796	1799	1800	rBV2	163665	163850	0.77%	0.063%
53	12.710	1800	1806	1810	rVB	12546968	17244188	81.33%	6.642%
54	12.751	1810	1813	1819	rVB4	428892	801164	3.78%	0.309%
55	12.851	1822	1830	1835	rBV2	878234	1596020	7.53%	0.615%
56	12.945	1835	1846	1850	rBV3	11866177	21202847	100.00%	8.166%
57	12.986	1850	1853	1858	rVB2	833393	1341746	6.33%	0.517%
58	13.057	1860	1865	1868	rBV	1045455	1393570	6.57%	0.537%
59	13.092	1868	1871	1877	rVB	941363	1320608	6.23%	0.509%
60	13.163	1877	1883	1886	rBV3	1437391	2566101	12.10%	0.988%
61	13.216	1890	1892	1894	rBV2	313542	297767	1.40%	0.115%
62	13.251	1894	1898	1899	rBV2	1267456	1453105	6.85%	0.560%
63	13.316	1905	1909	1911	rBV2	295053	453222	2.14%	0.175%
64	13.339	1911	1913	1916	rVV	476814	571094	2.69%	0.220%
65	13.381	1916	1920	1928	rVV2	3889878	5181910	24.44%	1.996%
66	13.439	1928	1930	1932	rVV	240593	221644	1.05%	0.085%
67	13.475	1932	1936	1939	rVV	1832048	1866059	8.80%	0.719%
68	13.504	1939	1941	1945	rVB	1433317	1440445	6.79%	0.555%
69	13.669	1965	1969	1971	rBV3	377171	631357	2.98%	0.243%
70	13.710	1974	1976	1978	rVV	589492	569705	2.69%	0.219%
71	13.733	1978	1980	1985	rVB3	336505	367217	1.73%	0.141%

LSC Area Percent Report

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Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % 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:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Title : SVOA CALIBRATION

72	13.804	1985	1992	1996	rBV	3178034	4158047	19.61%	1.601%
73	13.863	1999	2002	2005	rVB	703220	695769	3.28%	0.268%
74	13.916	2005	2011	2013	rBV	3481169	5095363	24.03%	1.962%
75	13.939	2013	2015	2017	rVV2	1446370	1355097	6.39%	0.522%
76	13.969	2017	2020	2026	rVV3	1047478	2183875	10.30%	0.841%
77	14.022	2026	2029	2037	rVB	1898377	2679499	12.64%	1.032%
78	14.086	2037	2040	2043	rBV	456144	481564	2.27%	0.185%
79	14.175	2047	2055	2058	rBV3	8250538	17572824	82.88%	6.768%
80	14.210	2059	2061	2068	rVB	7937432	9991282	47.12%	3.848%
81	14.263	2068	2070	2076	rBV2	669902	1062321	5.01%	0.409%
82	14.345	2076	2084	2087	rBV4	1128811	2440973	11.51%	0.940%
83	14.410	2092	2095	2099	rVB2	677392	983751	4.64%	0.379%
84	14.510	2108	2112	2114	rBV2	367225	454202	2.14%	0.175%
85	14.539	2114	2117	2119	rBV3	665213	900312	4.25%	0.347%
86	14.580	2119	2124	2127	rVV	3120508	4903992	23.13%	1.889%
87	14.616	2127	2130	2133	rVB	1347353	1685050	7.95%	0.649%
88	14.710	2142	2146	2155	rVB6	868242	1793525	8.46%	0.691%
89	14.845	2166	2169	2175	rVB3	296219	499575	2.36%	0.192%
90	14.945	2182	2186	2192	rVB3	604701	1293147	6.10%	0.498%
91	14.998	2192	2195	2198	rVV	499602	698083	3.29%	0.269%
92	15.033	2199	2201	2207	rVB3	965333	1400059	6.60%	0.539%
93	15.116	2211	2215	2222	rVB	907939	1553244	7.33%	0.598%
94	15.322	2238	2250	2259	rBV	6103149	20594021	97.13%	7.932%
95	15.404	2261	2264	2275	rVB2	1016506	2071839	9.77%	0.798%
96	15.633	2295	2303	2309	rBV2	3625993	10266346	48.42%	3.954%
97	15.704	2310	2315	2320	rVB	3379108	7082671	33.40%	2.728%
98	16.104	2379	2383	2386	rBV2	399955	795218	3.75%	0.306%
99	17.374	2593	2599	2618	rVB2	2068597	7024319	33.13%	2.705%
100	17.857	2673	2681	2694	rVB2	1530574	5726136	27.01%	2.205%

Sum of corrected areas: 259641007

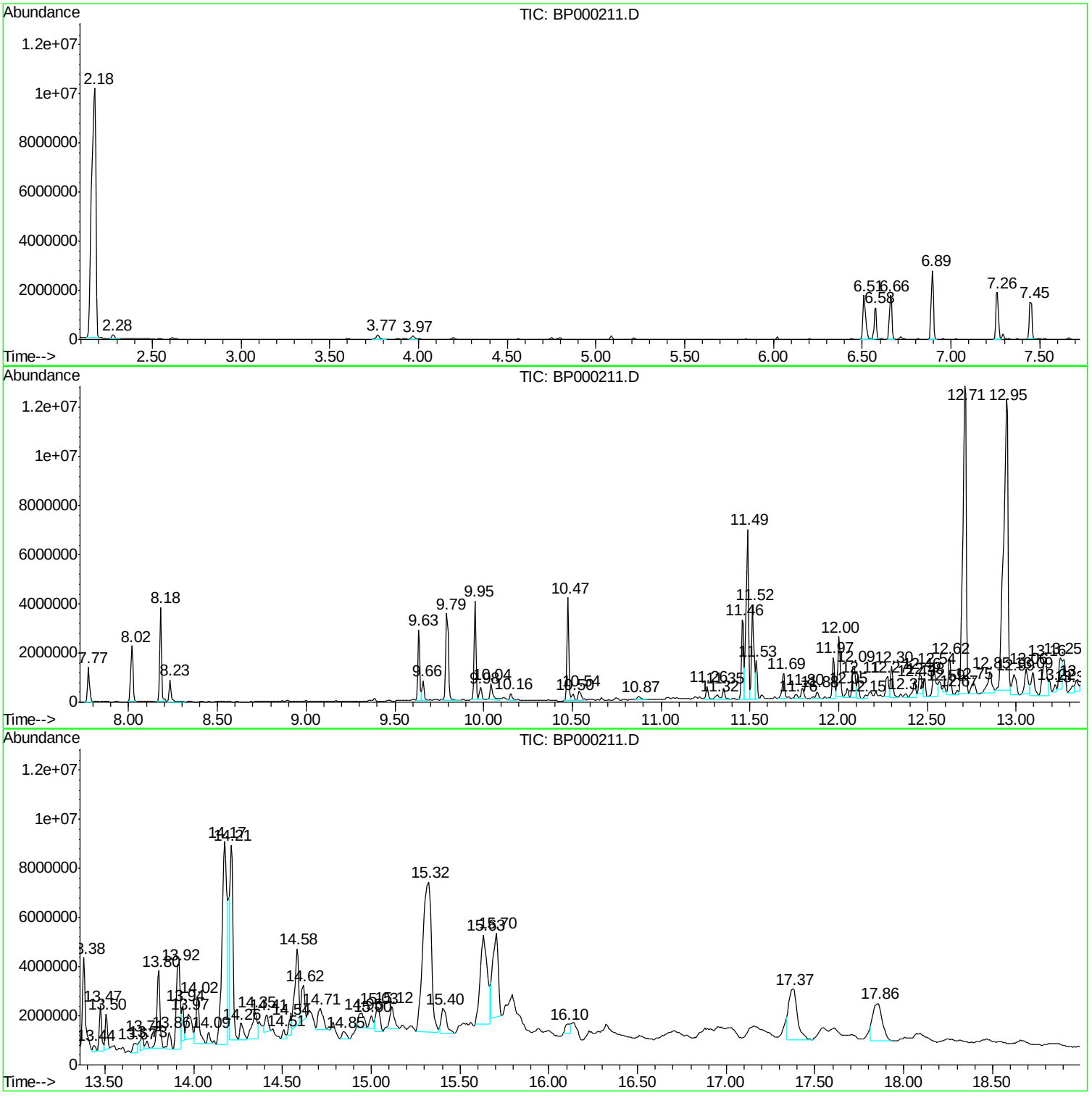
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

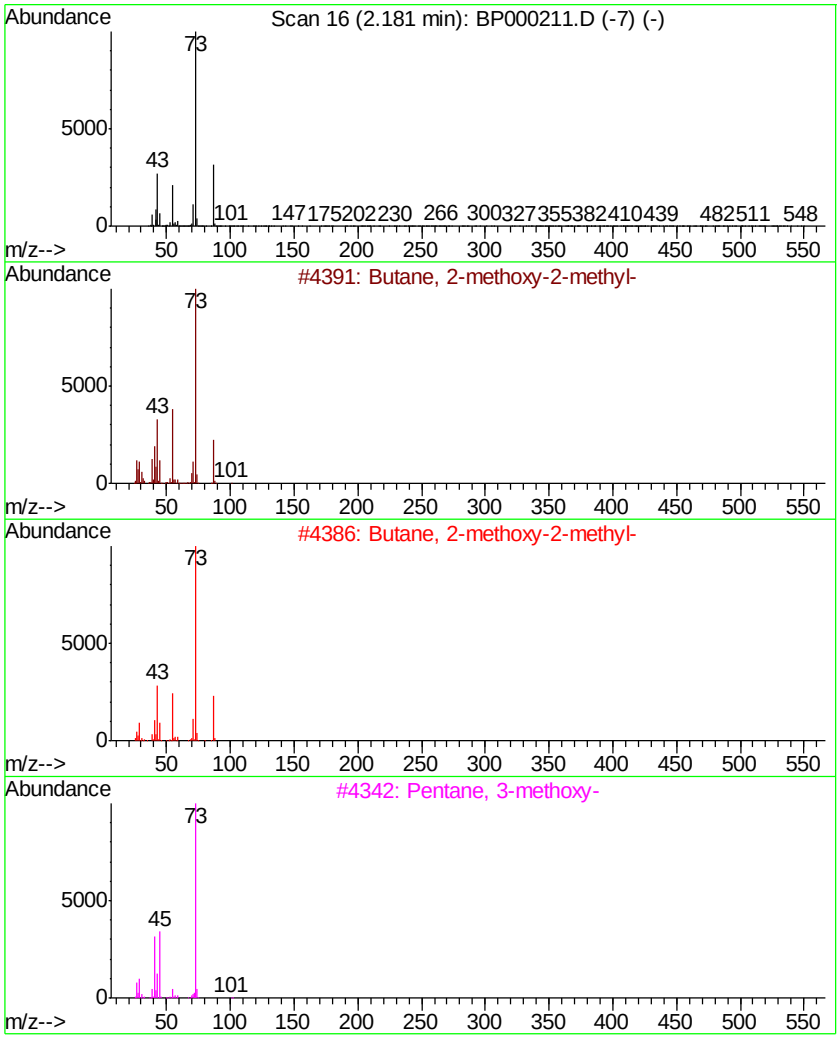
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

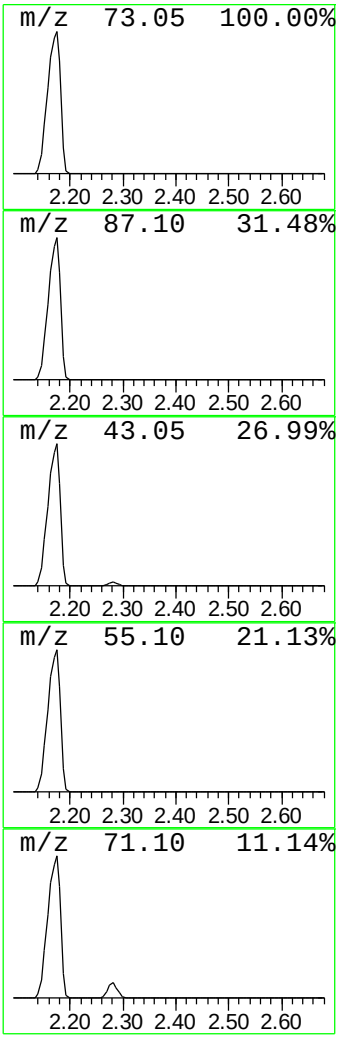
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	153.30 ng/ul	17010700	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

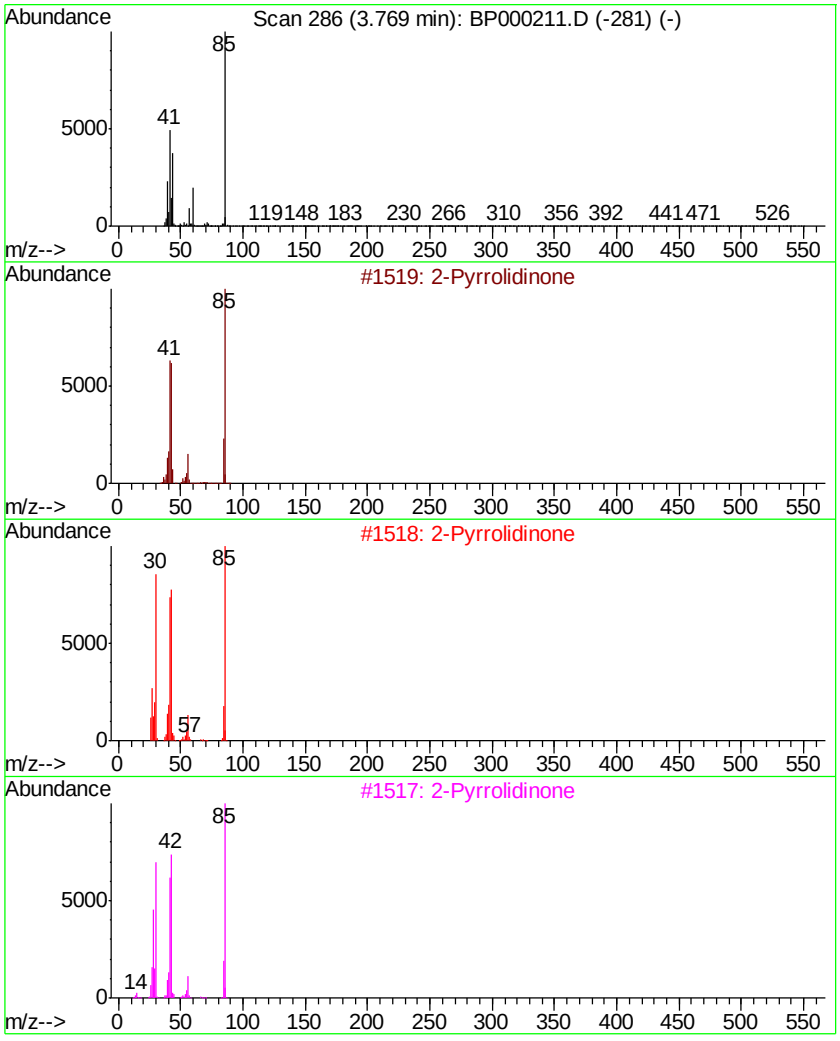
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

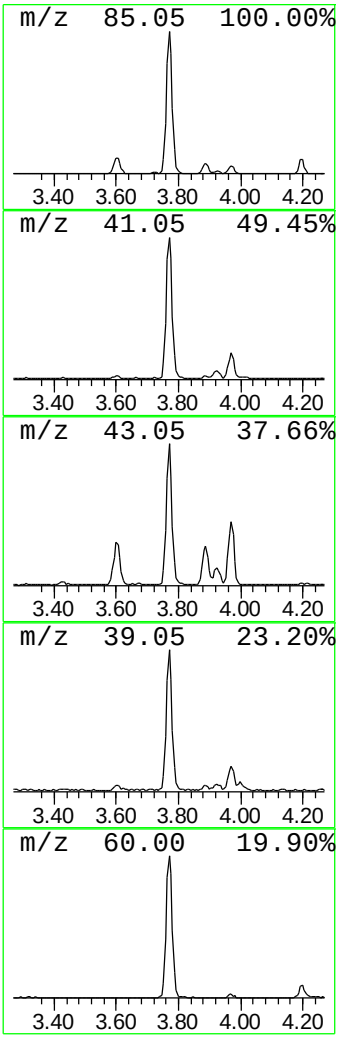
****

Peak Number 2 unknown-01 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.77	2.29 ng/ul	253998	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pyrrolidinone	85	C4H7NO	000616-45-5	40
2	2-Pyrrolidinone	85	C4H7NO	000616-45-5	33
3	2-Pyrrolidinone	85	C4H7NO	000616-45-5	9
4	Mefruside	382	C13H19ClN2O5S2	007195-27-9	9
5	2-Furanmethanol, tetrahydro-5-me...	116	C6H12O2	054774-28-6	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

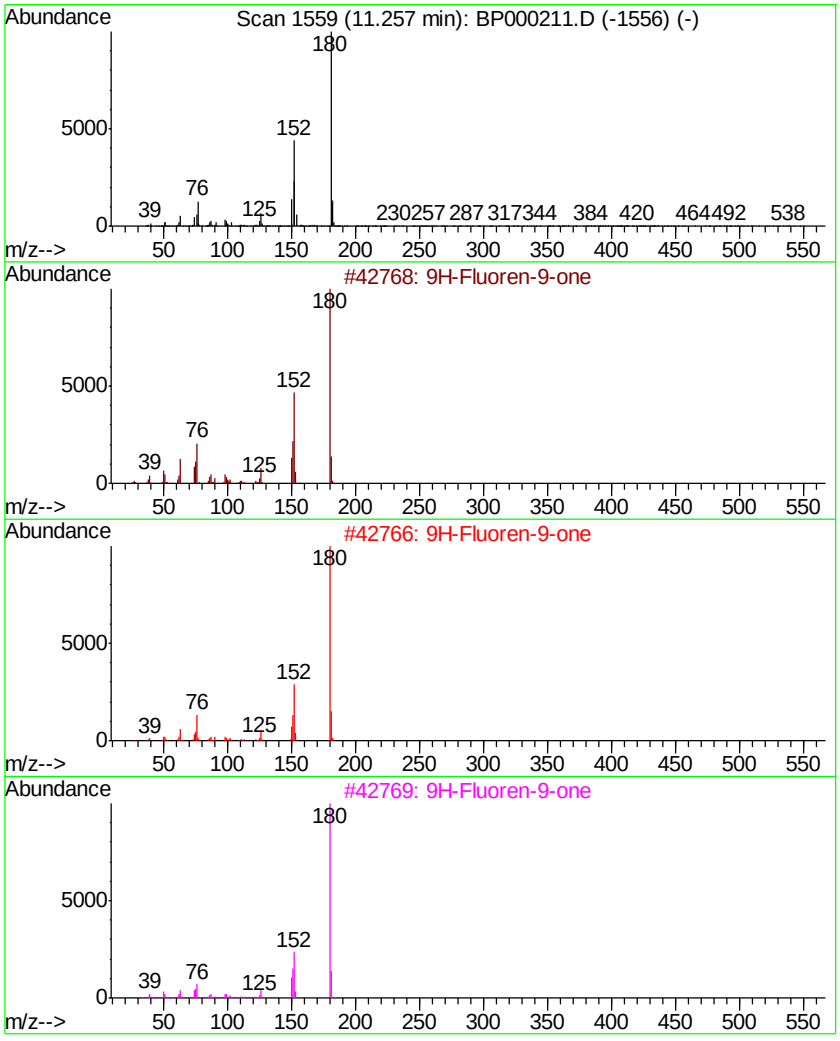
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

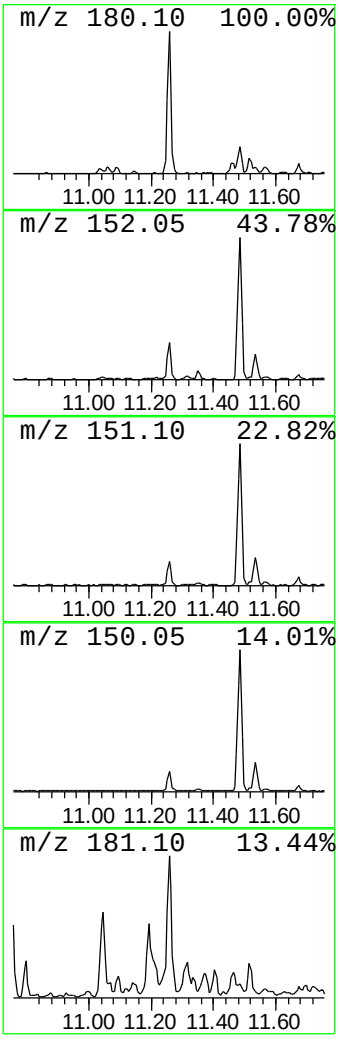
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	2.96 ng/ul	484956	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

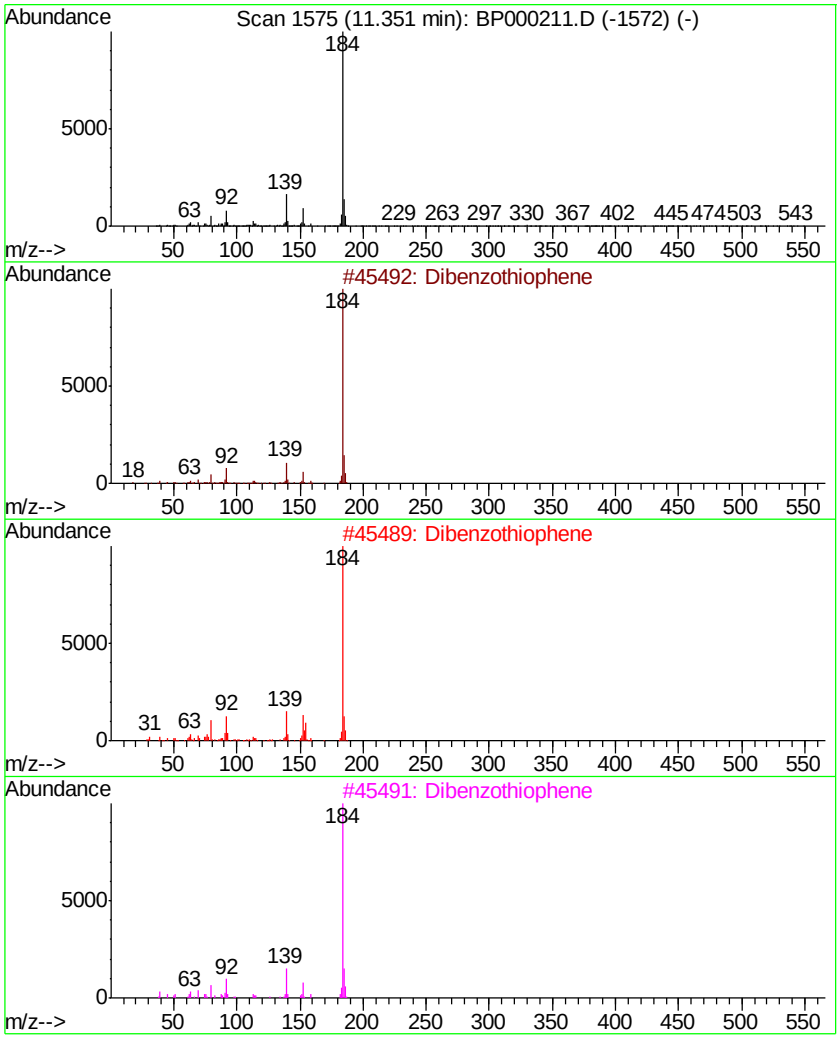
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

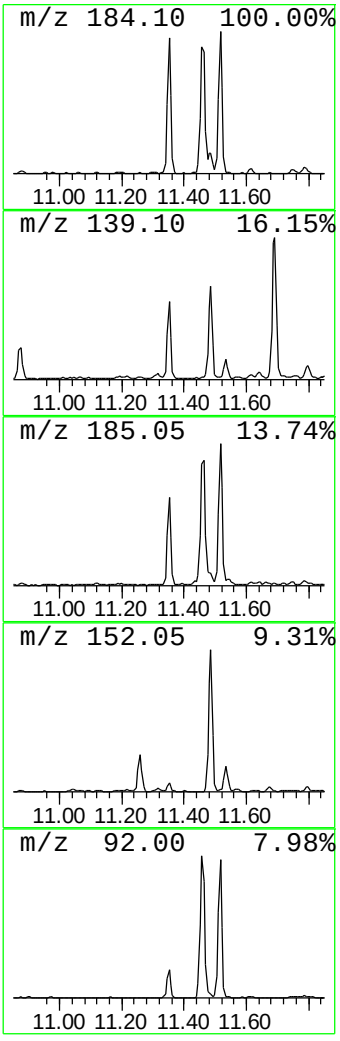
****

Peak Number 4 Dibenzothiophene Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	2.46 ng/ul	402835	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	93
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
5	Dibenzothiophene	184	C12H8S	000132-65-0	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

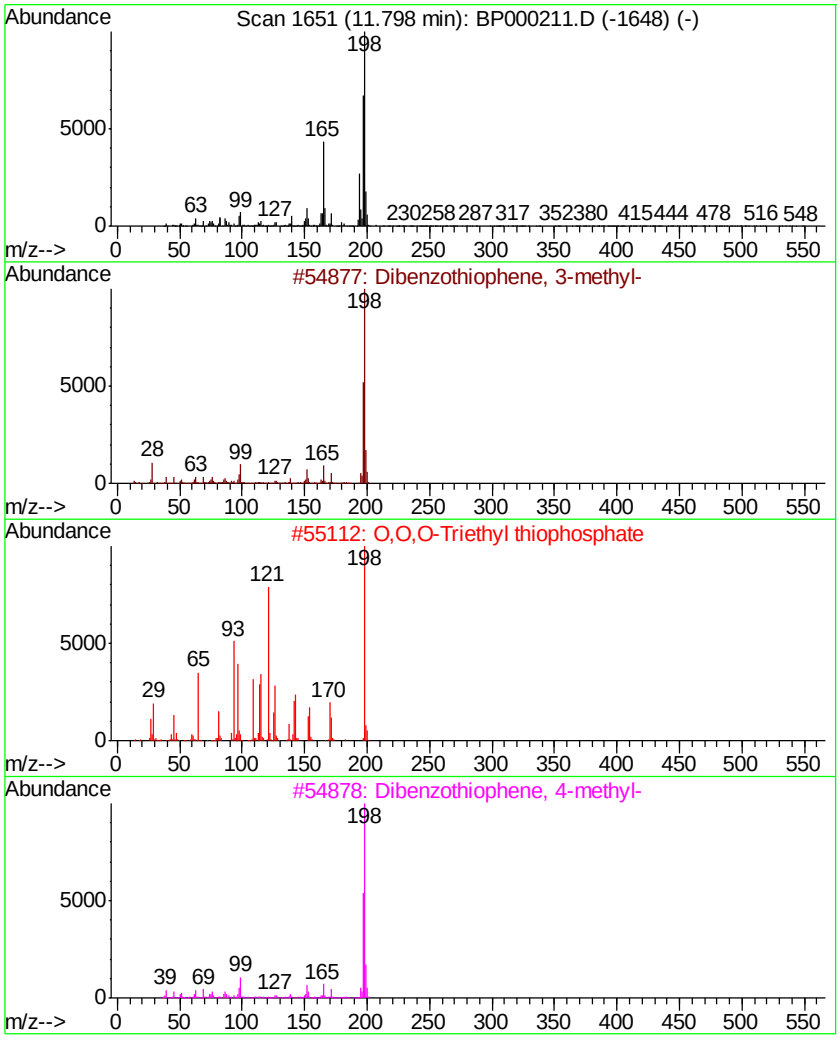
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

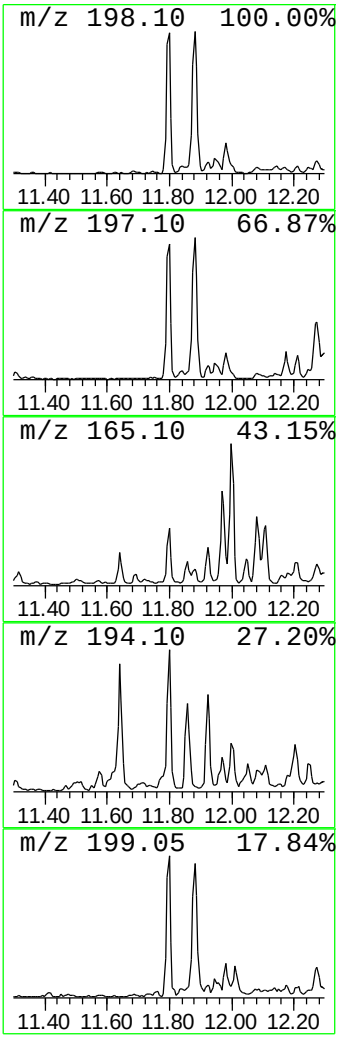
****

Peak Number 5 Dibenzothiophene, 3-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	2.20 ng/ul	360735	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	86
2	O,O,O-Triethyl thiophosphate	198	C6H15O3PS	000126-68-1	70
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	70
4	Thioxanthene	198	C13H10S	000261-31-4	64
5	Thioxanthene	198	C13H10S	000261-31-4	60





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Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
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Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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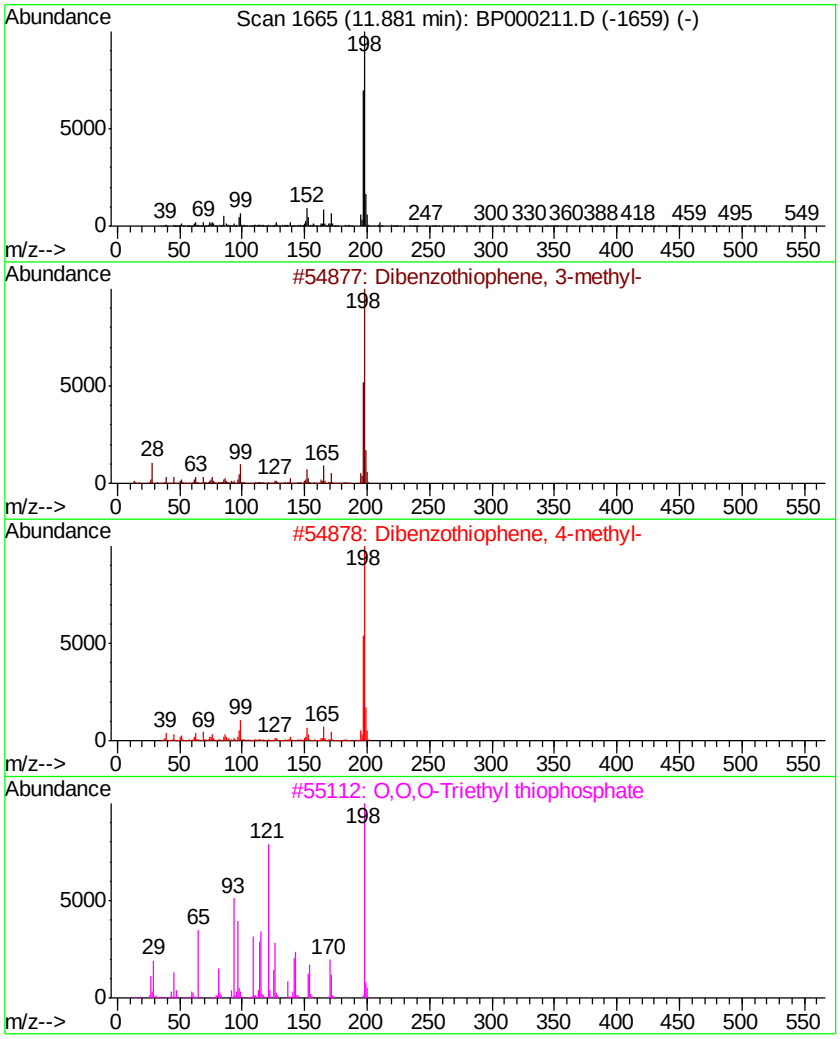
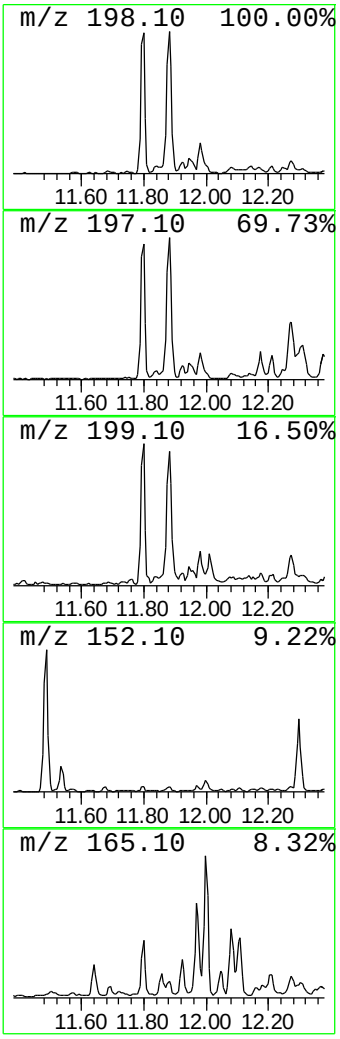
Peak Number 6 Dibenzothiophene, 4-methyl- Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	2.33 ng/ul	381952	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	96
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
3	O,O,O-Triethyl thiophosphate	198	C6H15O3PS	000126-68-1	87
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	87
5	9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	72





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Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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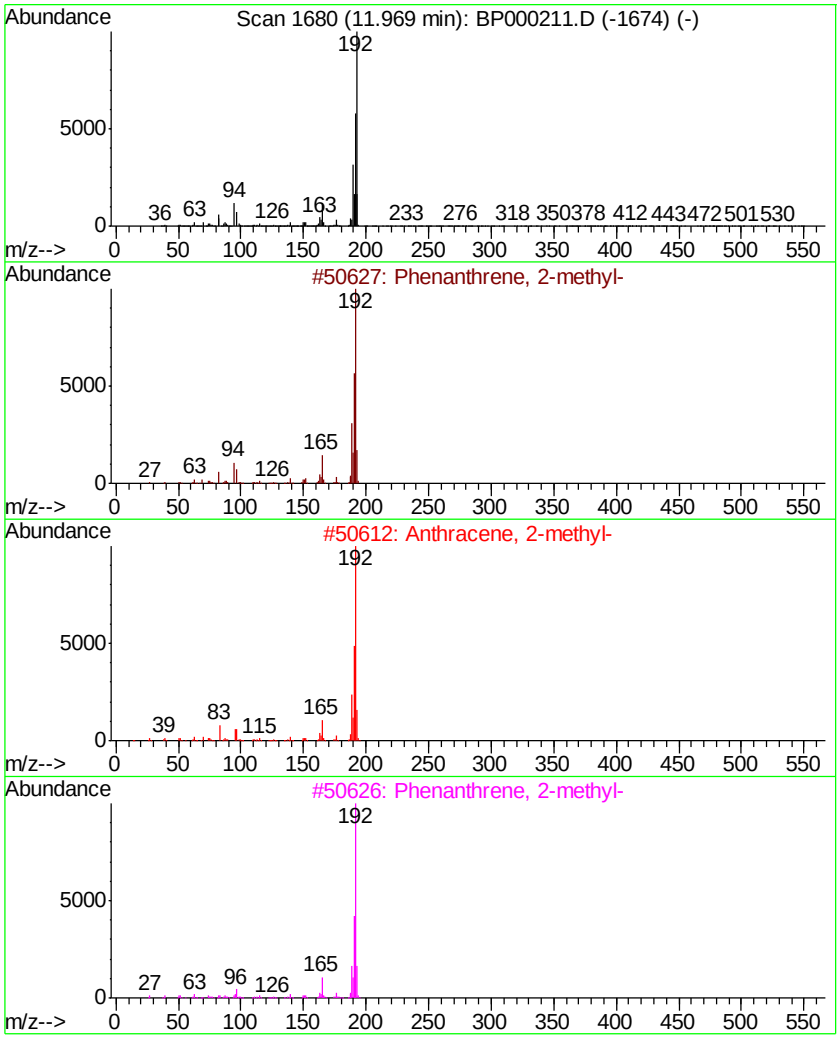
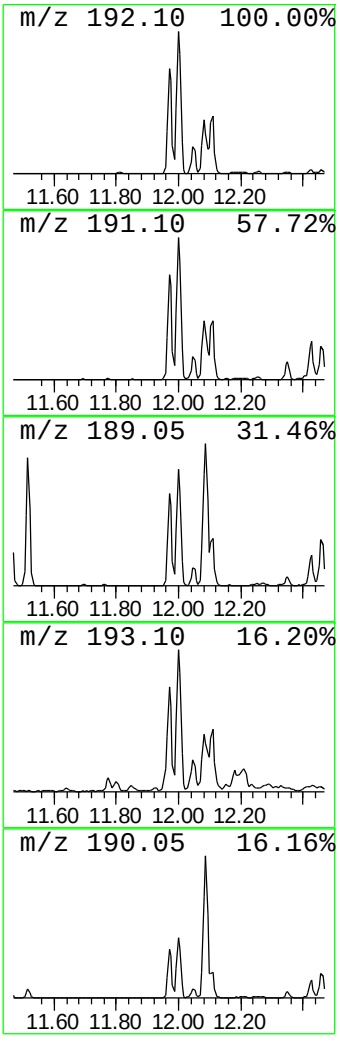
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	10.29 ng/ul	1685630	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91





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Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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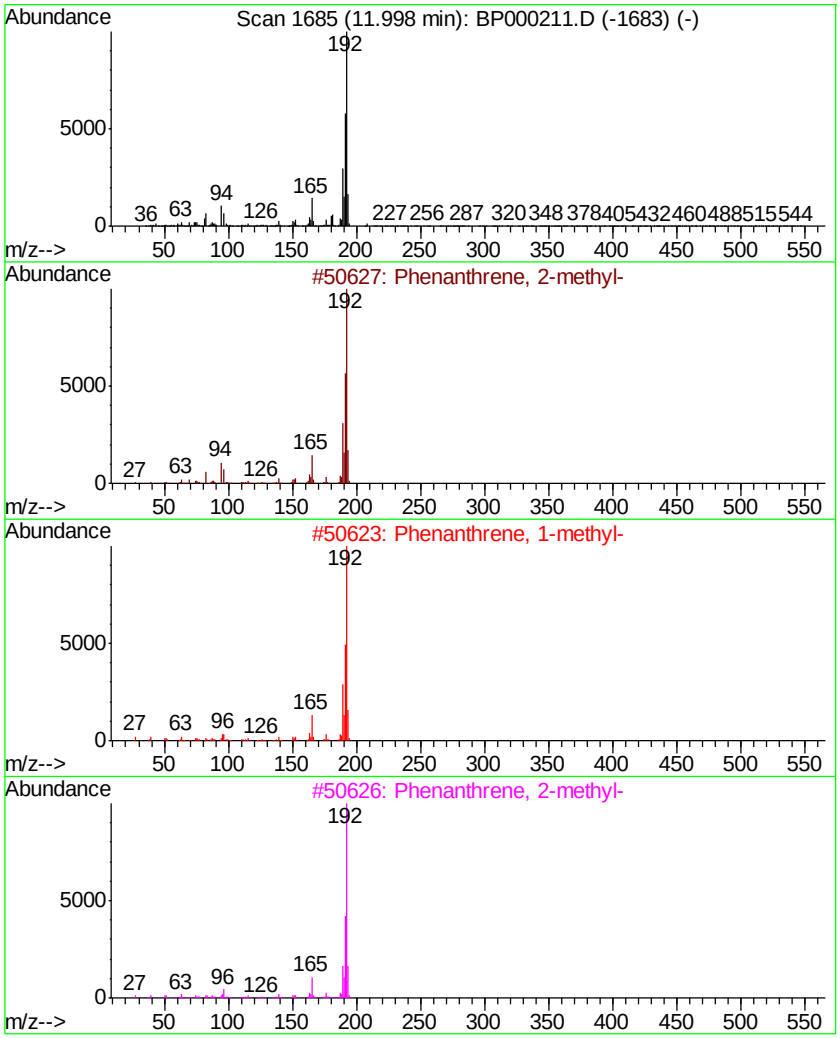
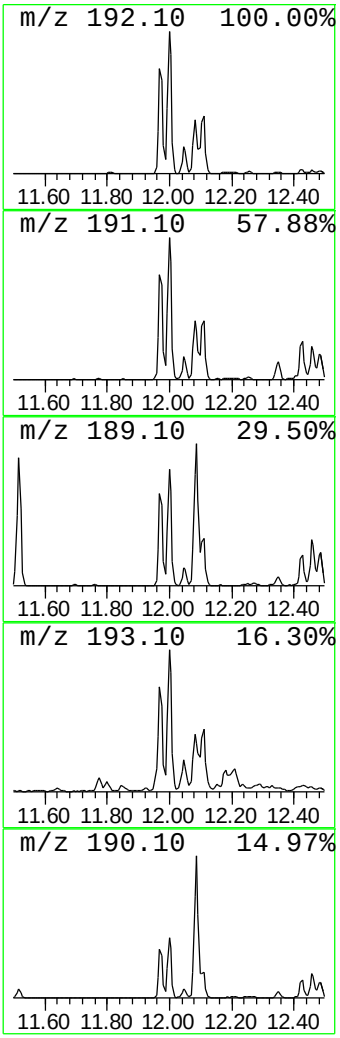
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	15.24 ng/ul	2497180	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Sample : K4634-15
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Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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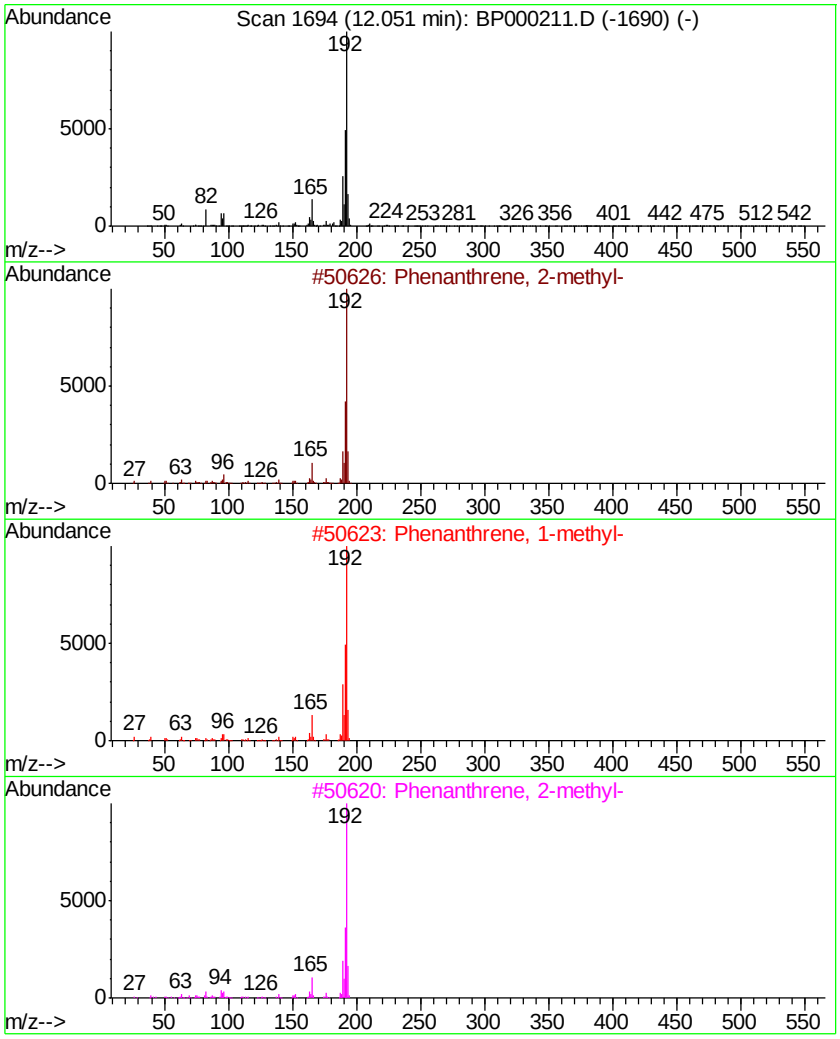
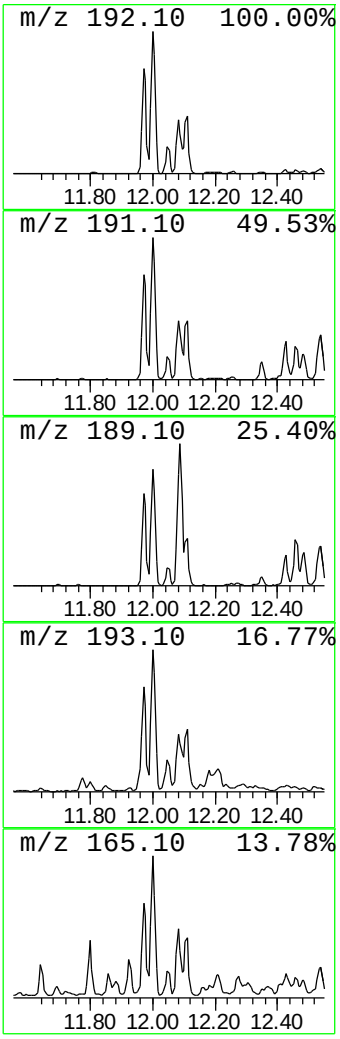
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	2.36 ng/ul	385954	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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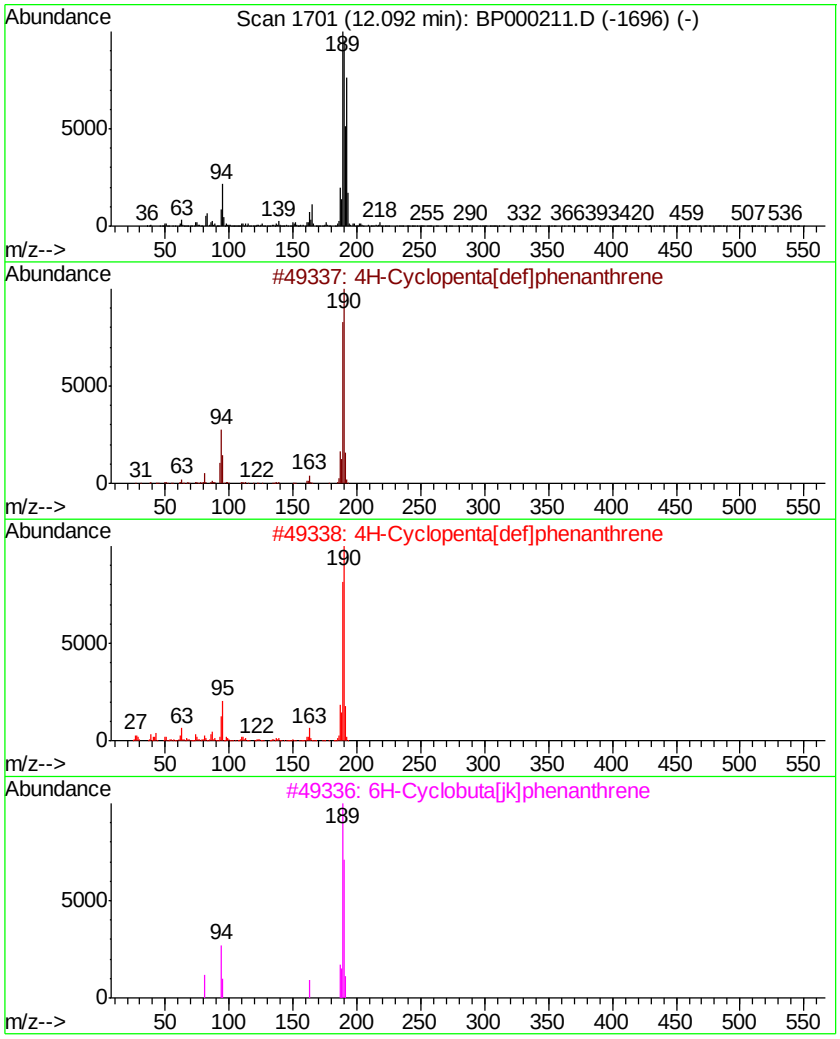
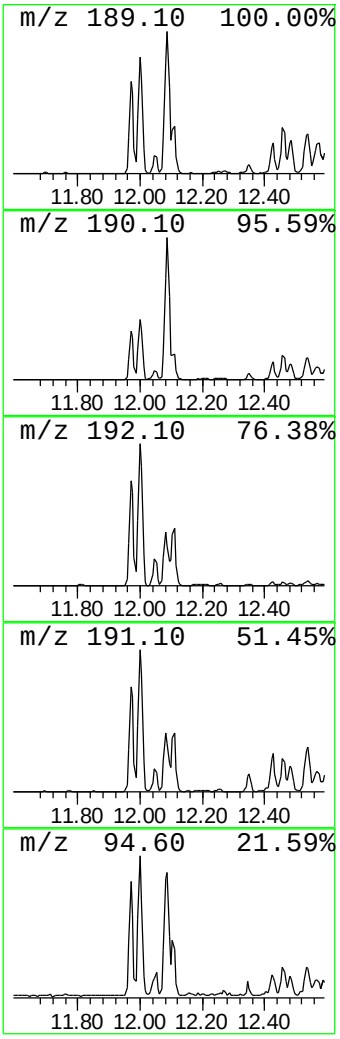
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	9.56 ng/ul	1566990	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	38





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Sample : K4634-15
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Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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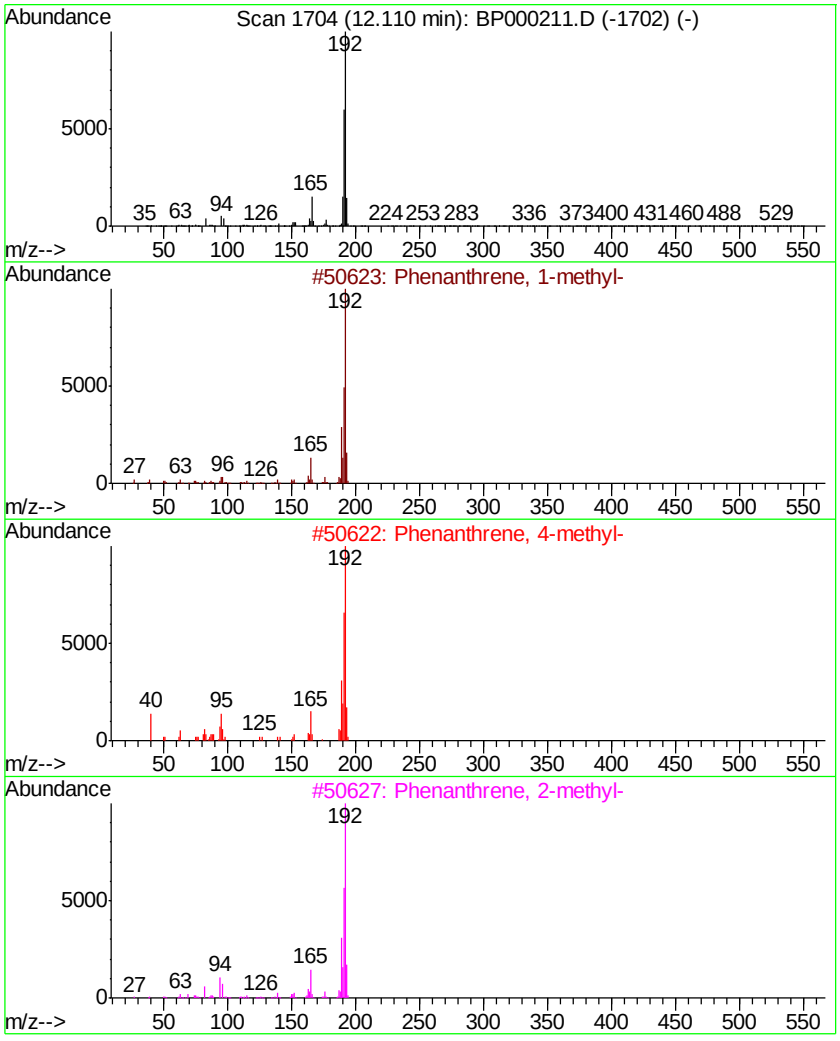
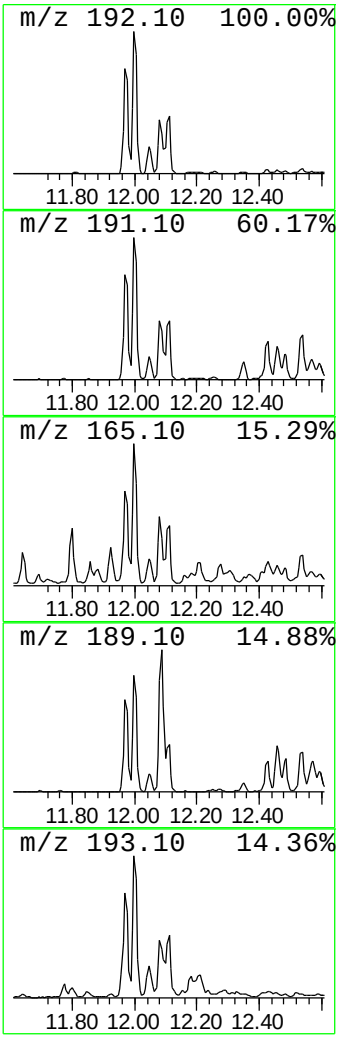
Peak Number 11 Anthracene, 9-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	4.43 ng/ul	725625	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
5	1H-Indene, 3-phenyl-	192	C15H12	001961-97-3	90





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Sample : K4634-15
Misc :
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Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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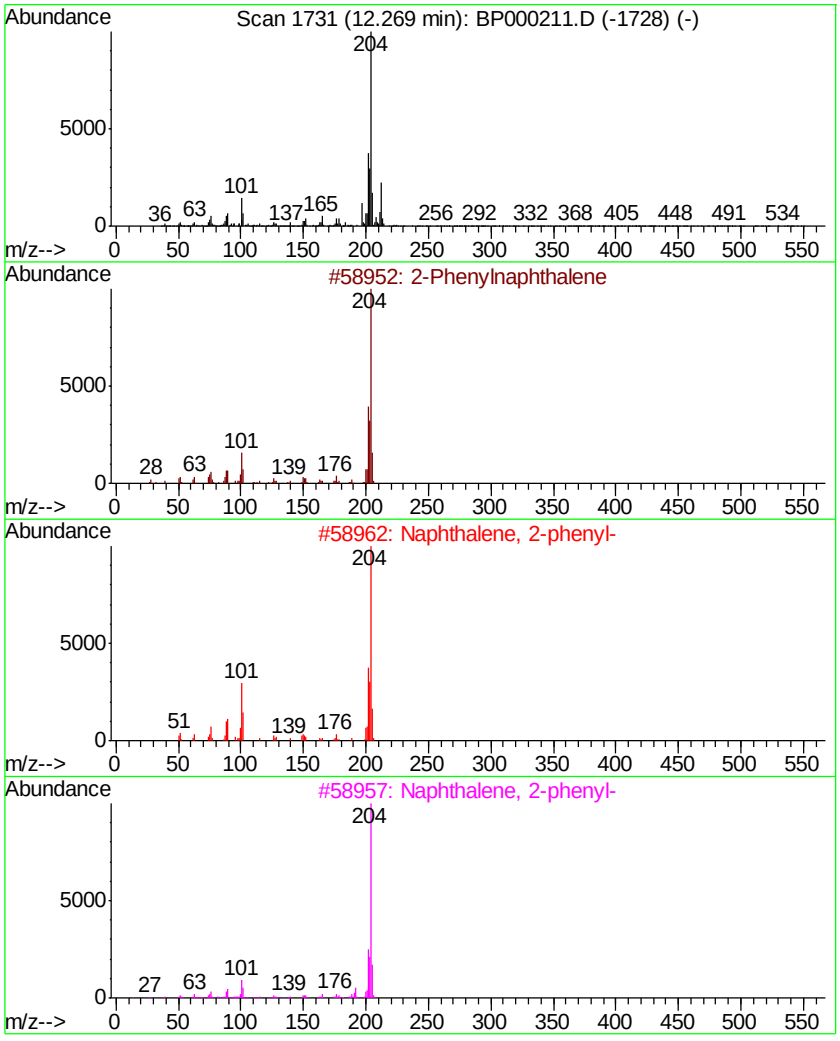
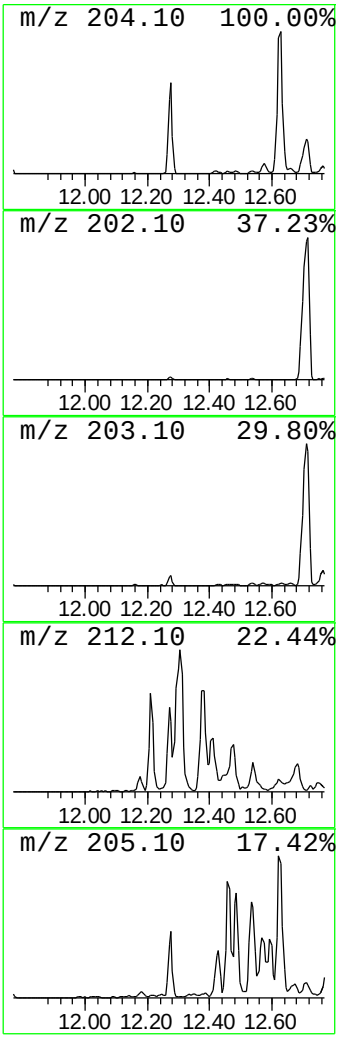
Peak Number 12 2-Phenylnaphthalene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	5.14 ng/ul	842027	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	93
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	78
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	62





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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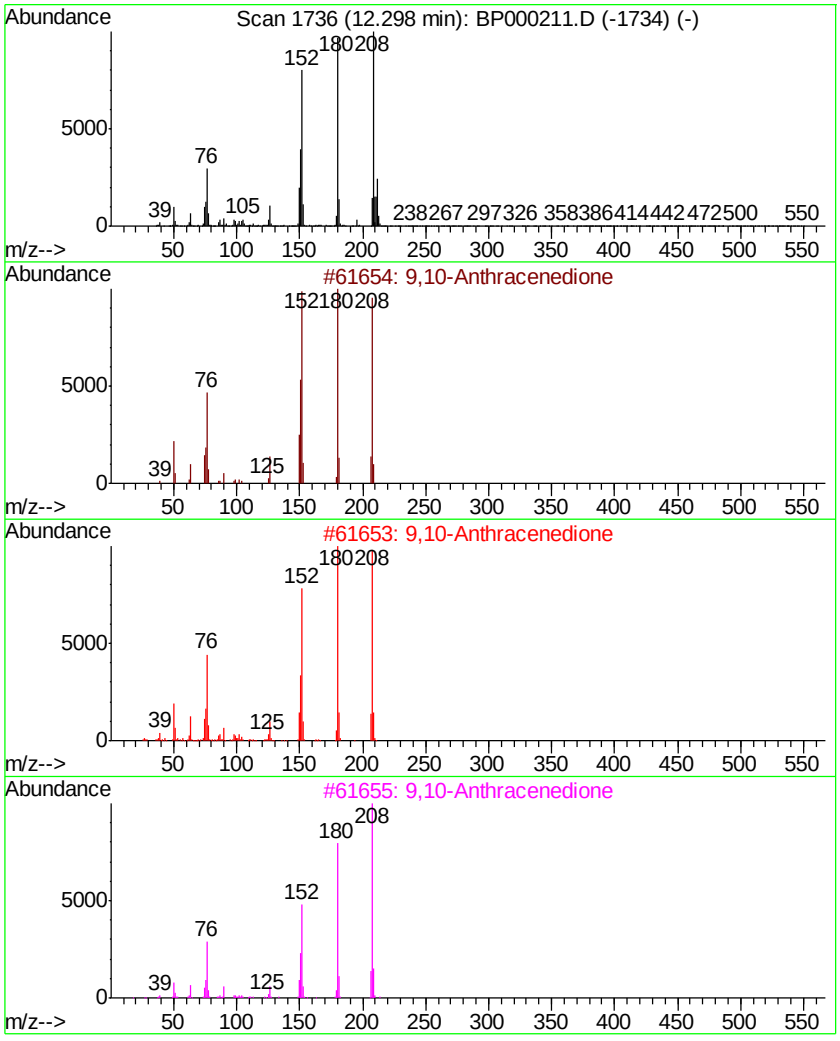
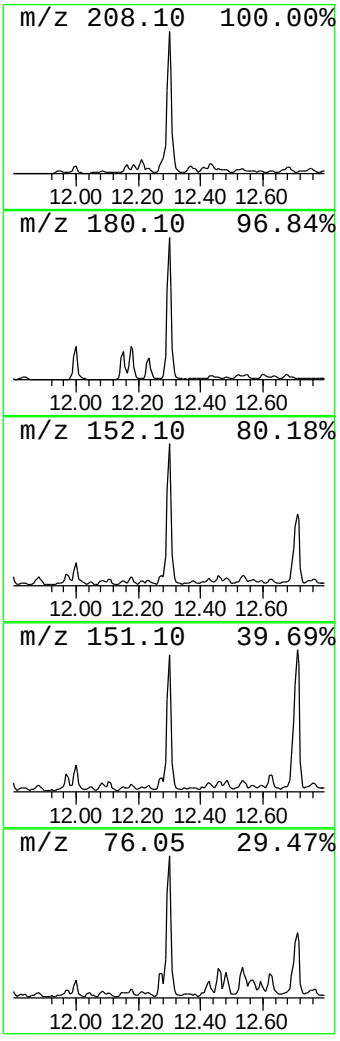
Peak Number 13 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	7.69 ng/ul	1260350	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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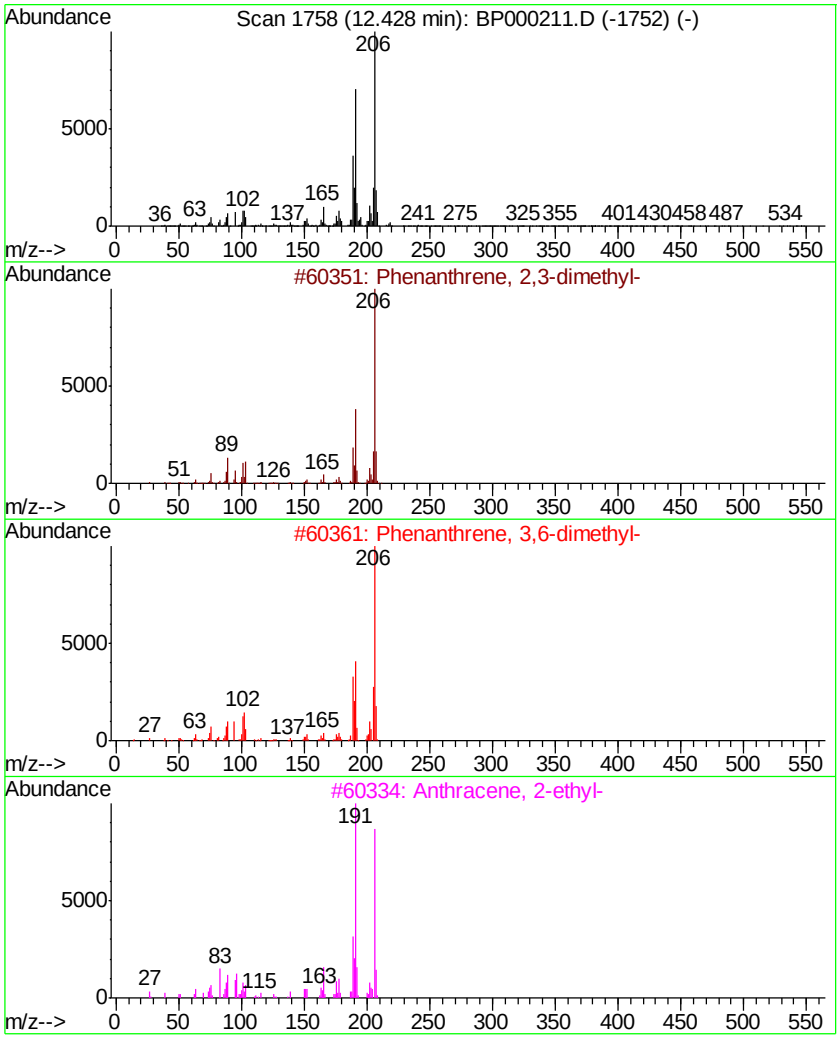
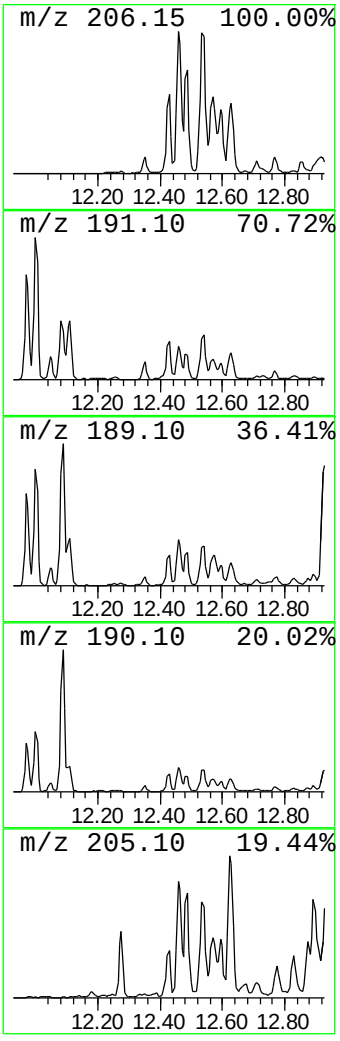
Peak Number 14 Phenanthrene, 2,3-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	4.79 ng/ul	784827	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	91
4	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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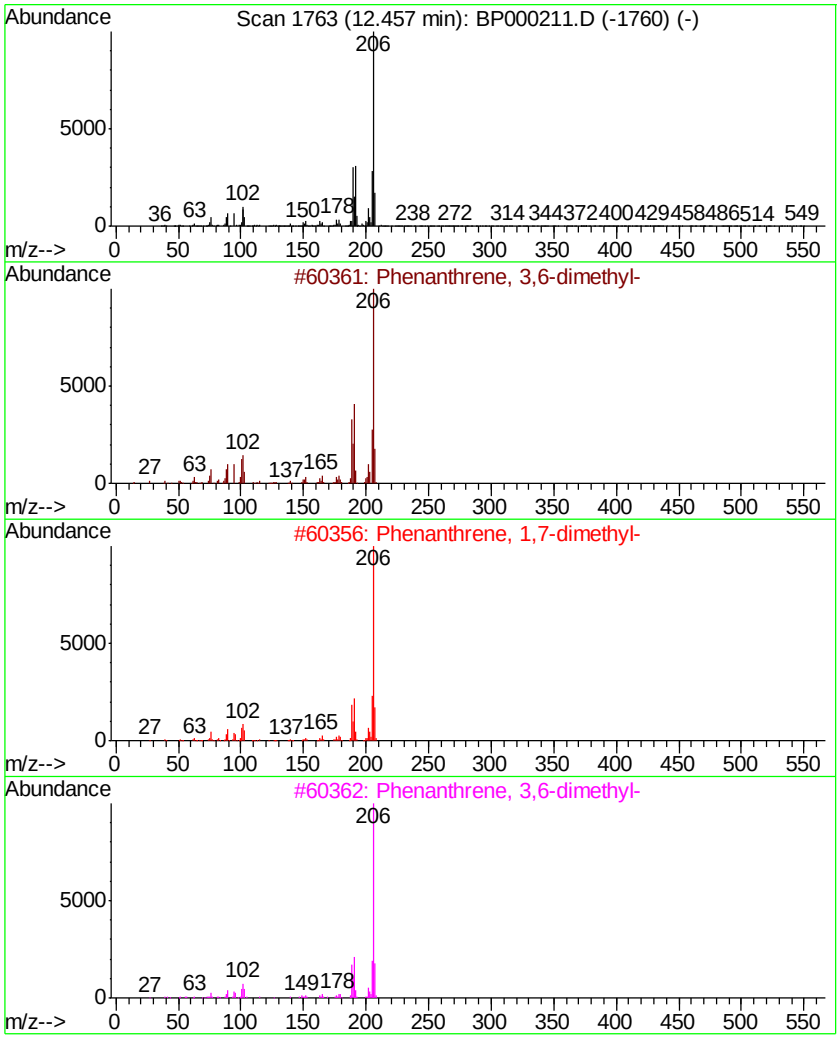
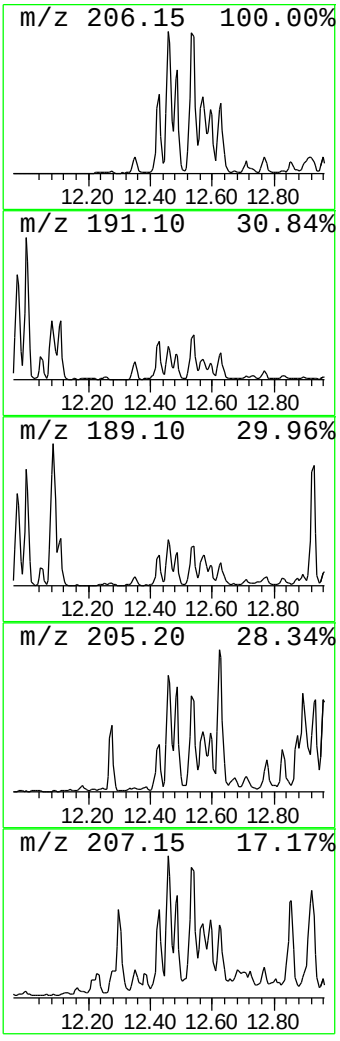
Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	5.21 ng/ul	854010	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	97
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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Peak Number 16 di-p-Tolylacetylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	3.71 ng/ul	607582	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90
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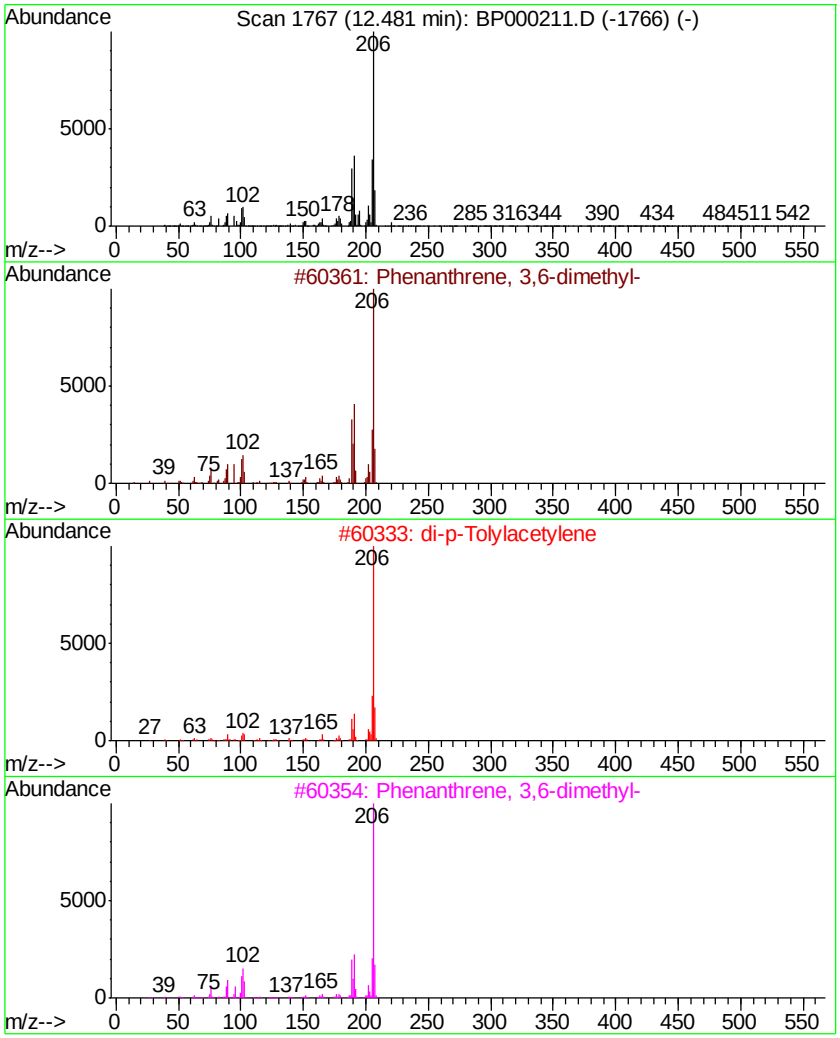

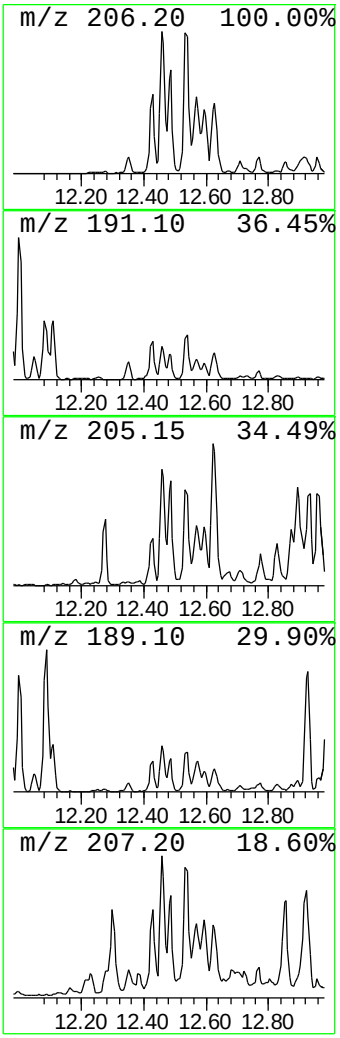

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TIC Integration Parameters: LSCINT.P

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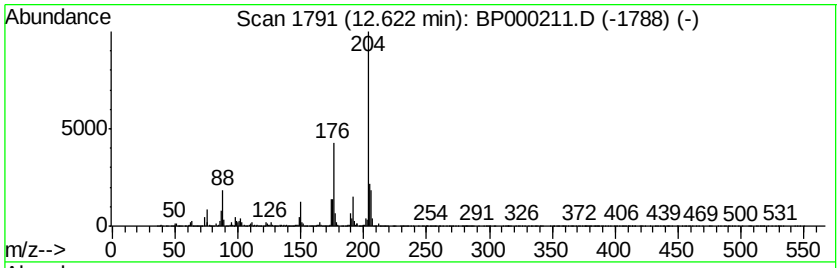
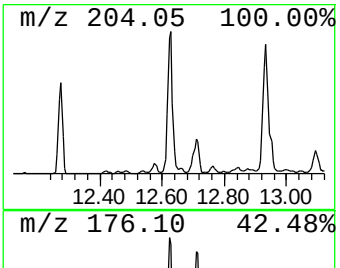
Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	10.11 ng/ul	1656050	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	98
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	52
4	Acetic acid, 5,7,8-trimethyl-6-c...	246	C14H14O4	100886-58-6	47
5	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	47





Library Search Compound Report

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Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

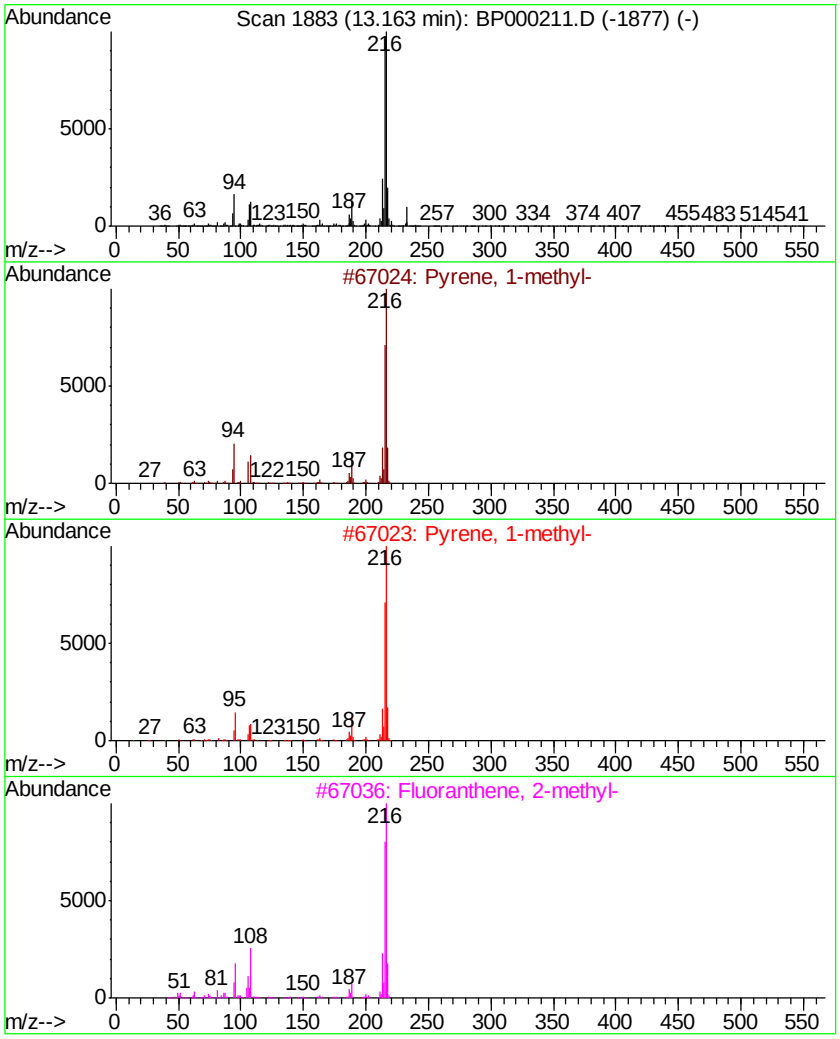
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

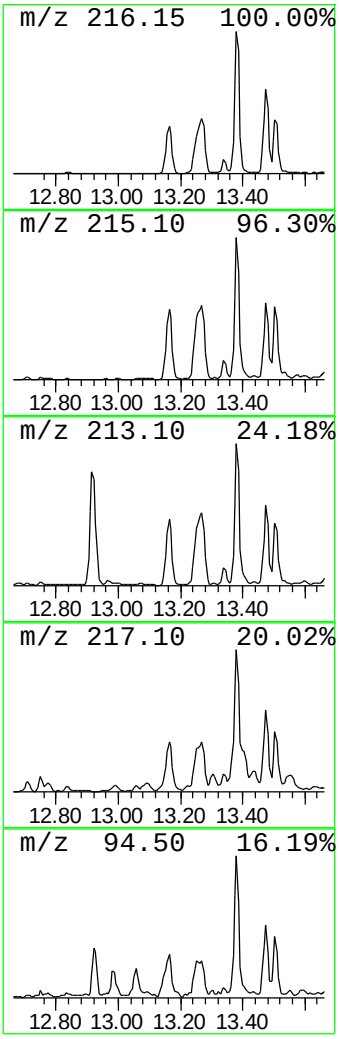
****

Peak Number 19 Pyrene, 1-methyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	2.92 ng/ul	2566100	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	92
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91





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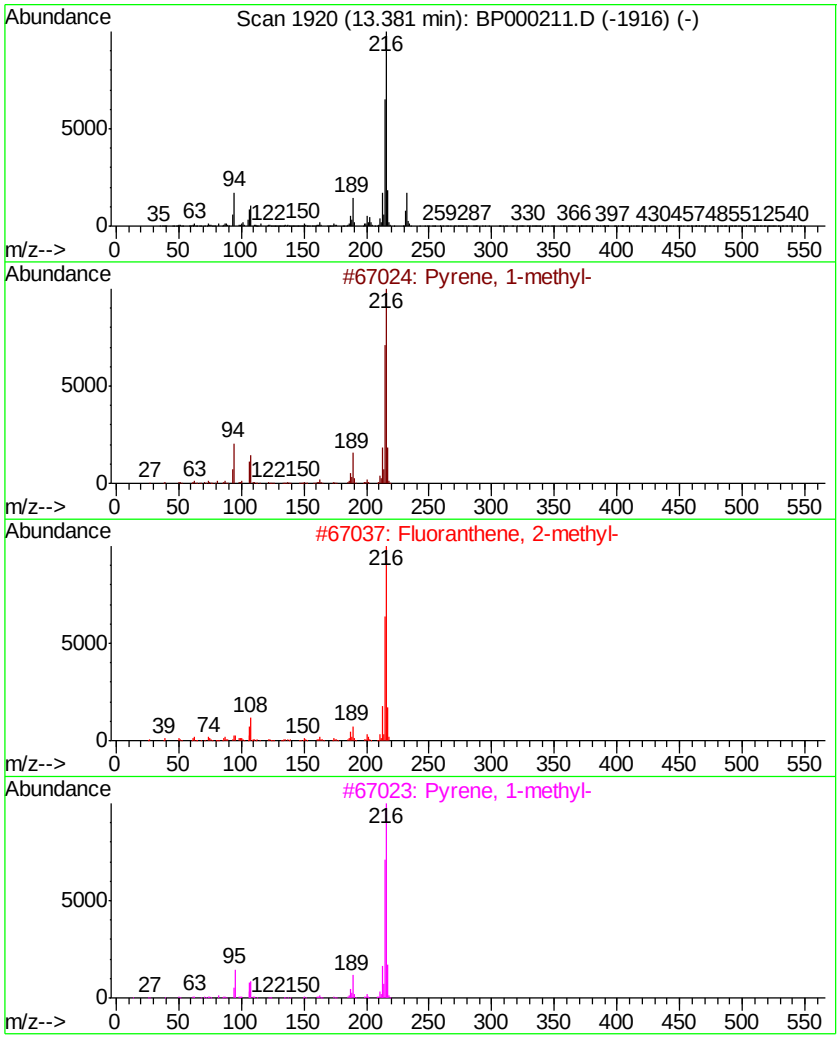
Quant Title : SVOA CALIBRATION

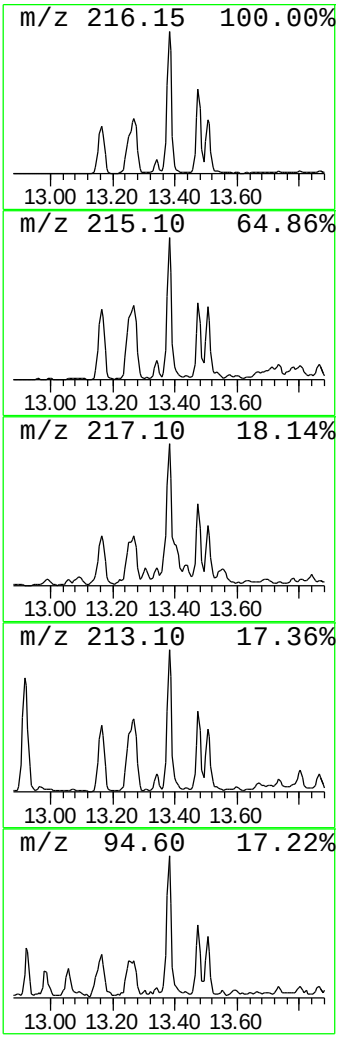
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Fluoranthene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	5.90 ng/ul	5181910	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94





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Quant Title : SVOA CALIBRATION

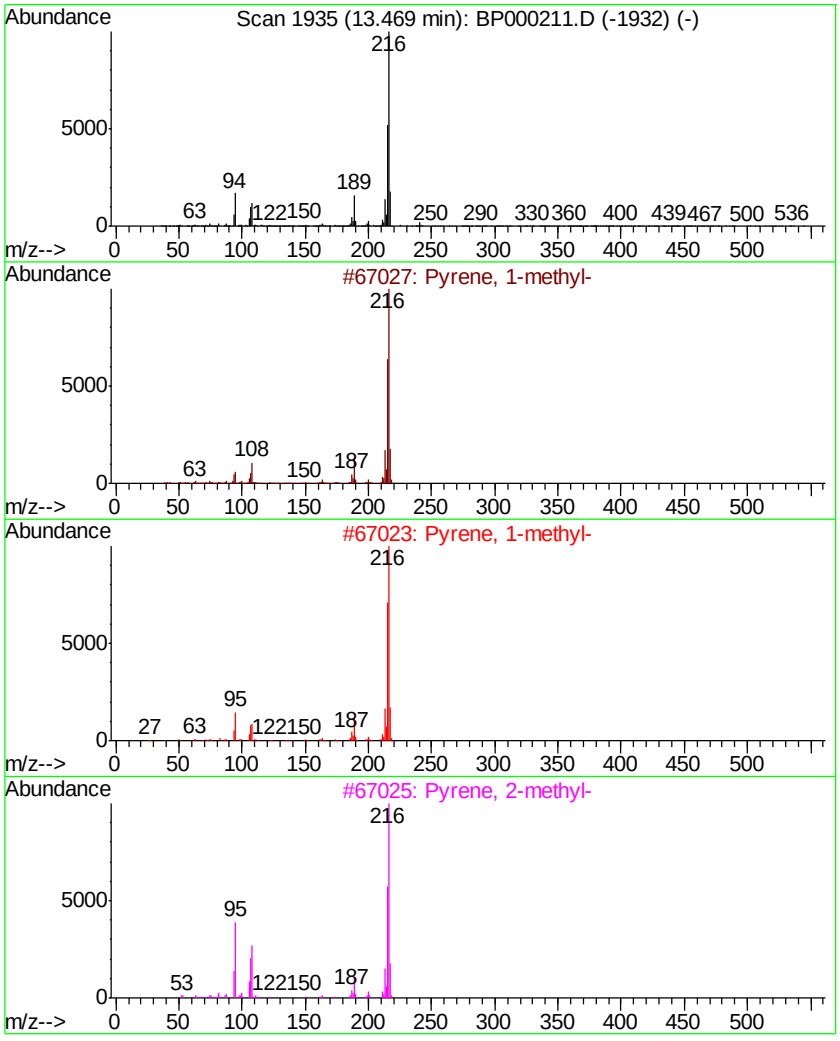
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

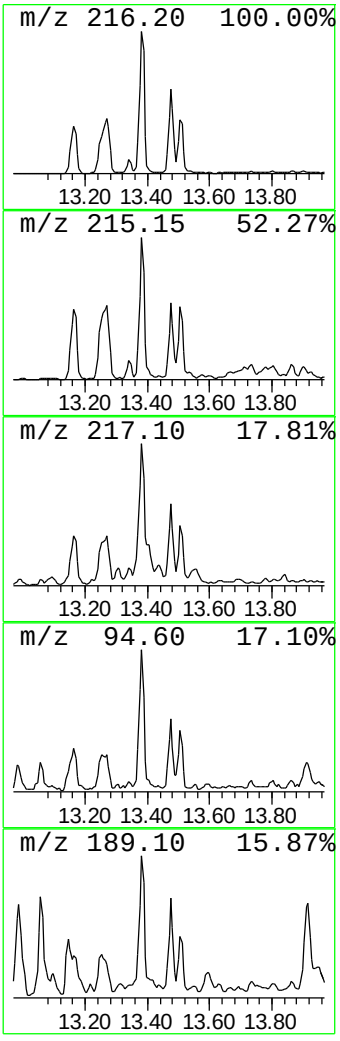
****

Peak Number 21 Pyrene, 4-methyl- Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	2.12 ng/ul	1866060	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93





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ClientSampleId : F2D33

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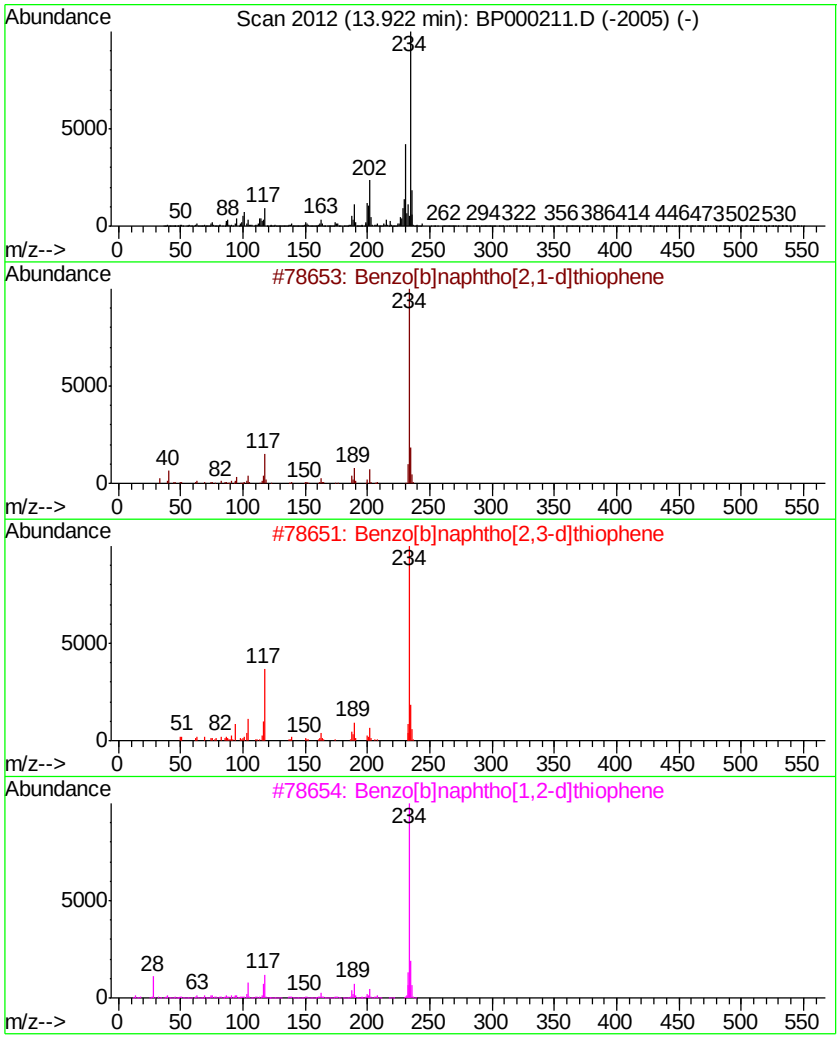
Quant Title : SVOA CALIBRATION

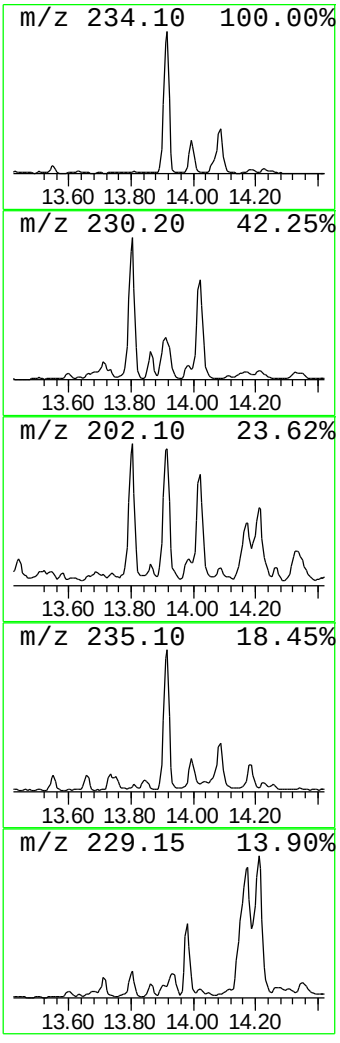
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 23 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	5.80 ng/ul	5095360	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	92
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	64
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	62
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	62





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ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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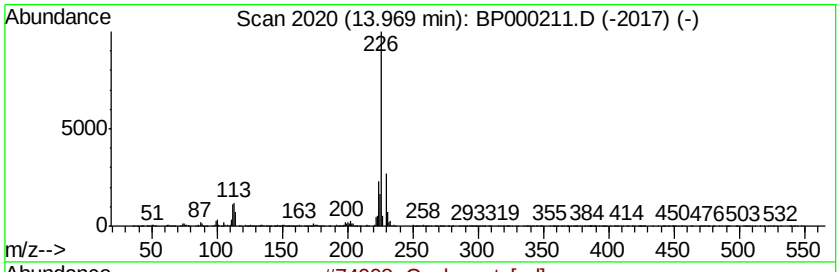
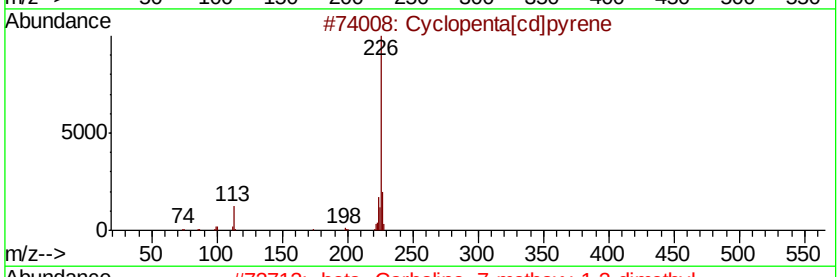
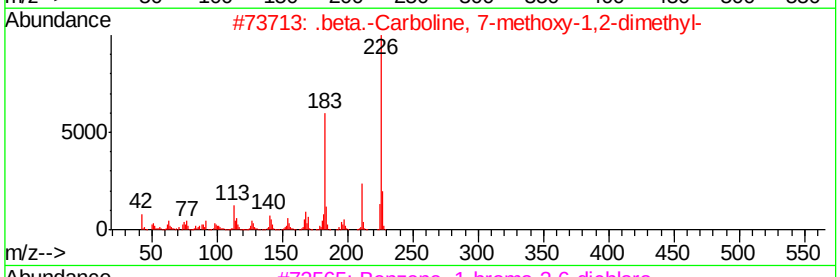
Peak Number 24 Cyclopenta[cd]pyrene Concentration Rank 24

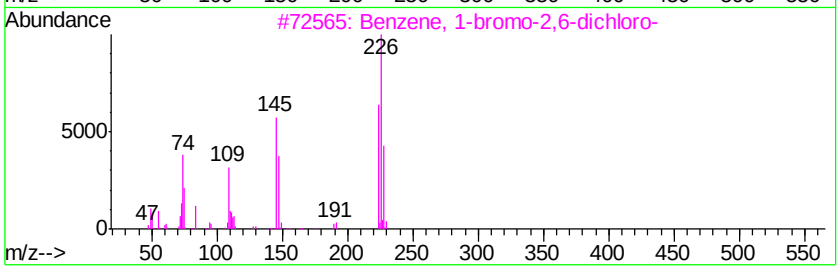
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	2.49 ng/ul	2183880	Chrysene-d12	14.18

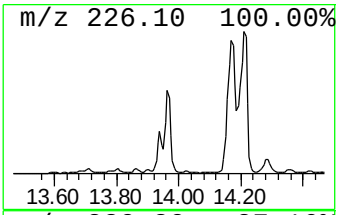
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	47
3	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	40
4	1,1,3,3-Tetrachloro-1,3-disilacy...	224	C2H4Cl4Si2	002146-97-6	33
5	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	9

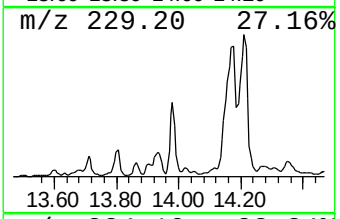


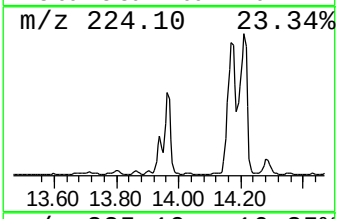


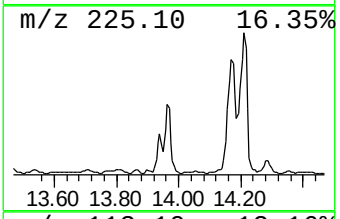


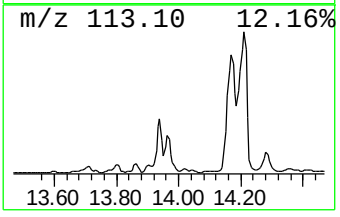












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Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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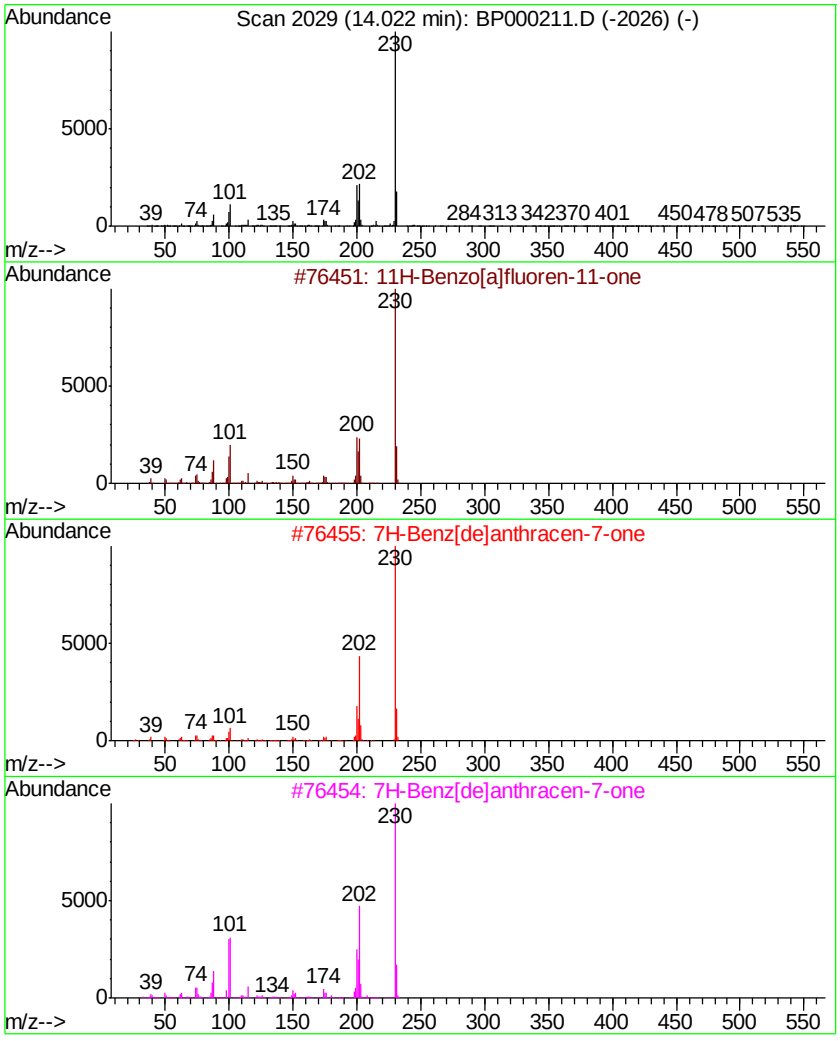
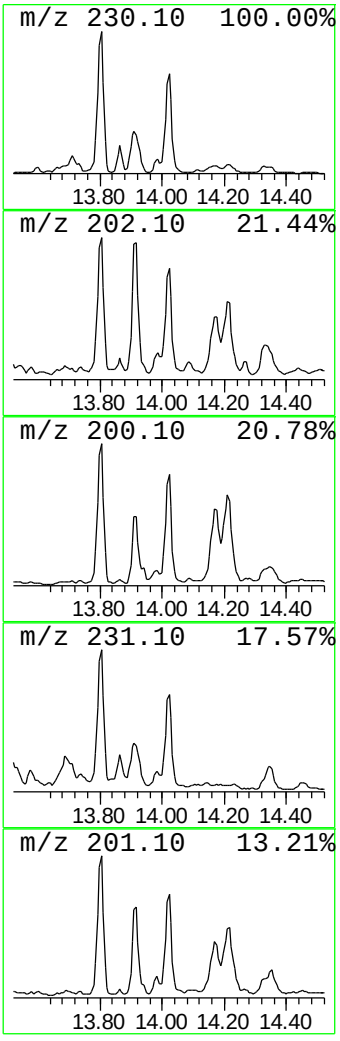
Peak Number 25 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.02	3.05 ng/ul	2679500	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	72





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ClientSampleId : F2D33

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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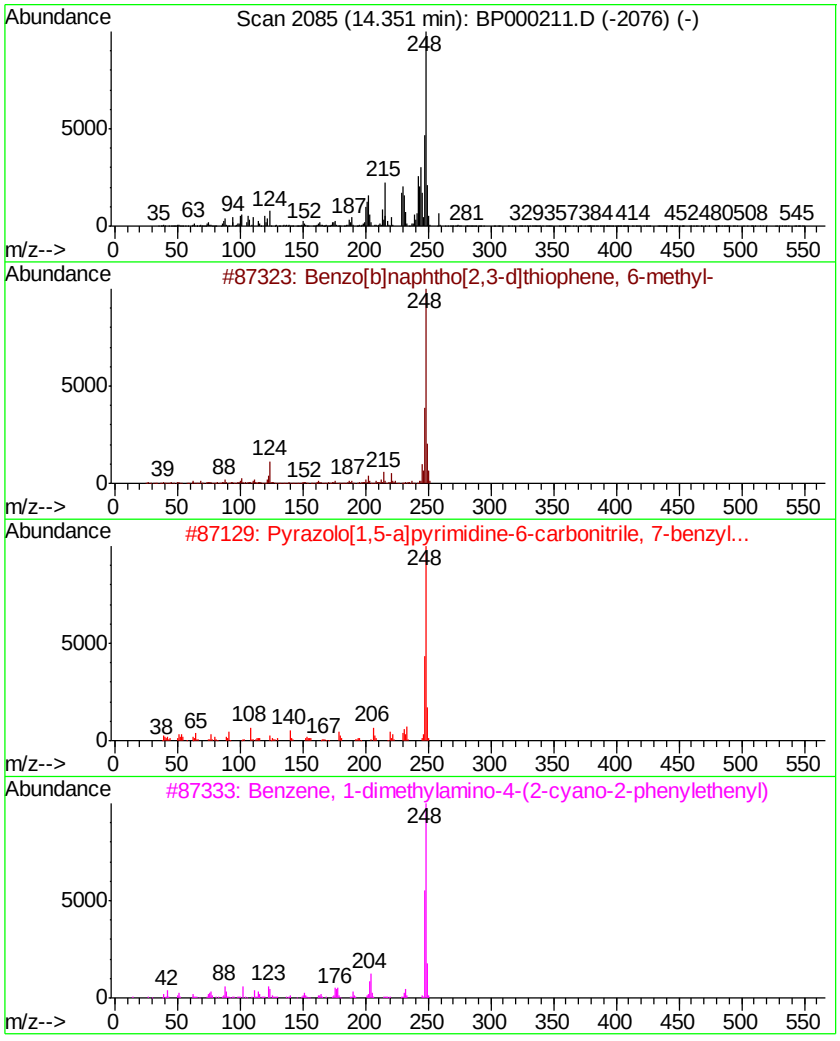
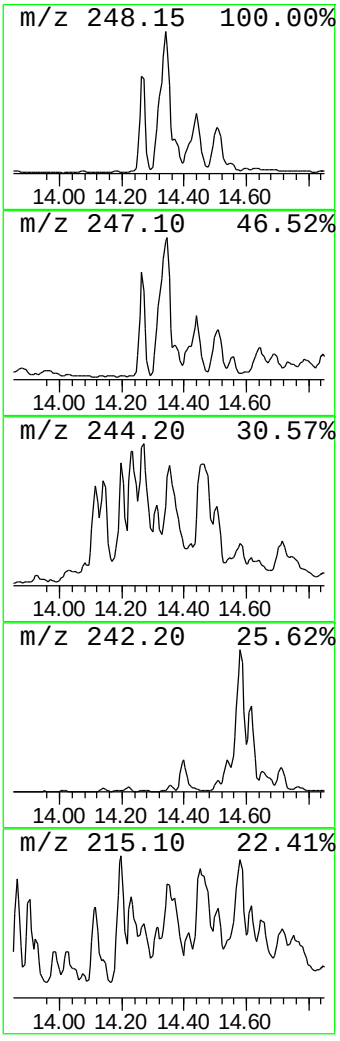
Peak Number 26 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.35	2.78 ng/ul	2440970	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024360-63-2	90
2	Pyrazolo[1,5-a]pyrimidine-6-carb...	248	C15H12N4	250646-38-9	64
3	Benzene, 1-dimethylamino-4-(2-cy...	248	C17H16N2	001222-61-3	59
4	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024964-09-8	53
5	4-Phenyl-6-(2-hydroxyphenyl)pyri...	248	C16H12N2O	037473-11-3	53





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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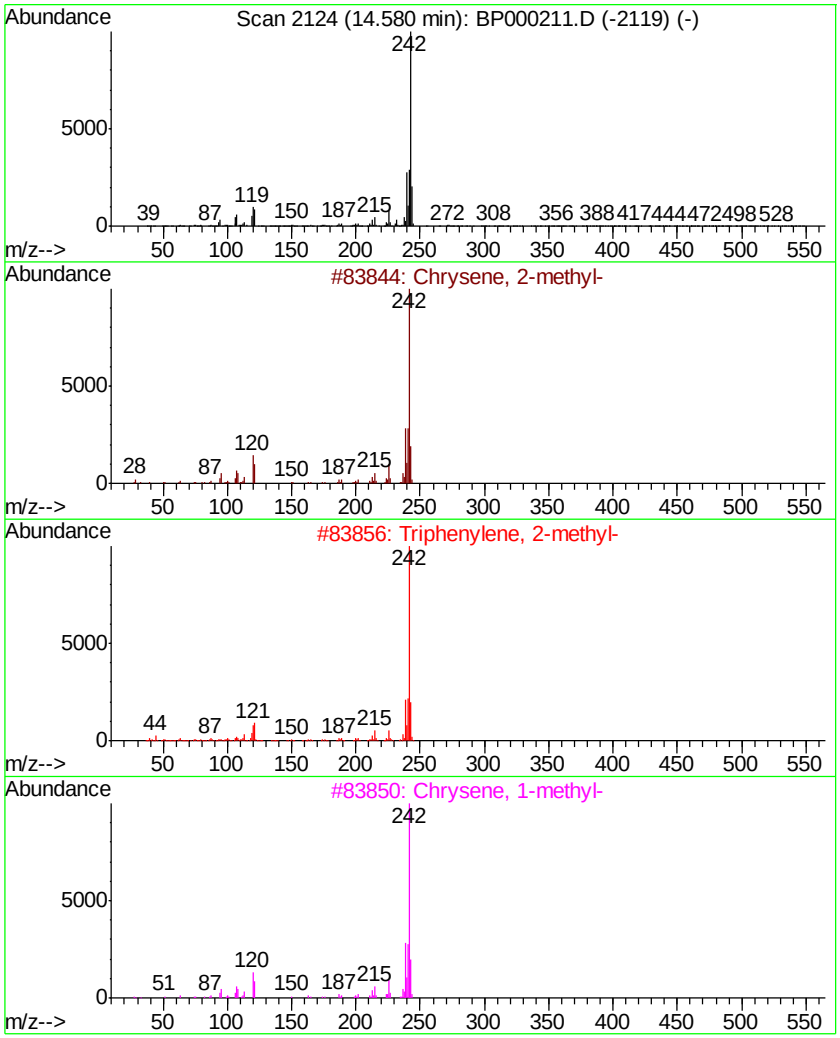
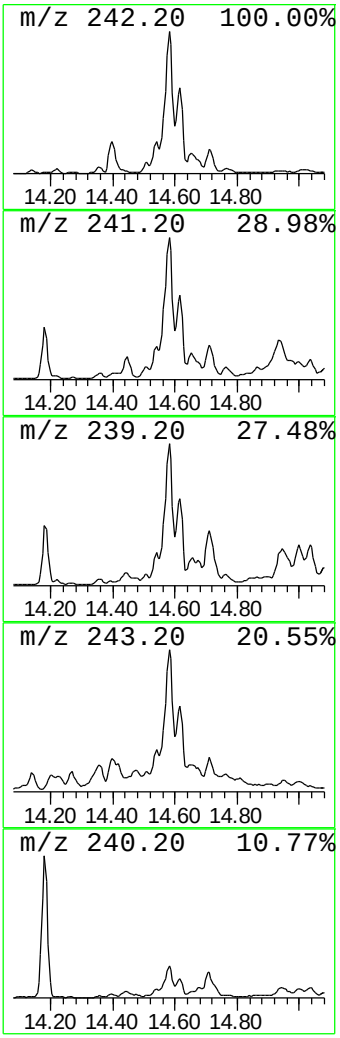
Peak Number 27 Chrysene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.58	5.58 ng/ul	4903990	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 2-methyl-	242	C19H14	003351-32-4	96
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
4	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93





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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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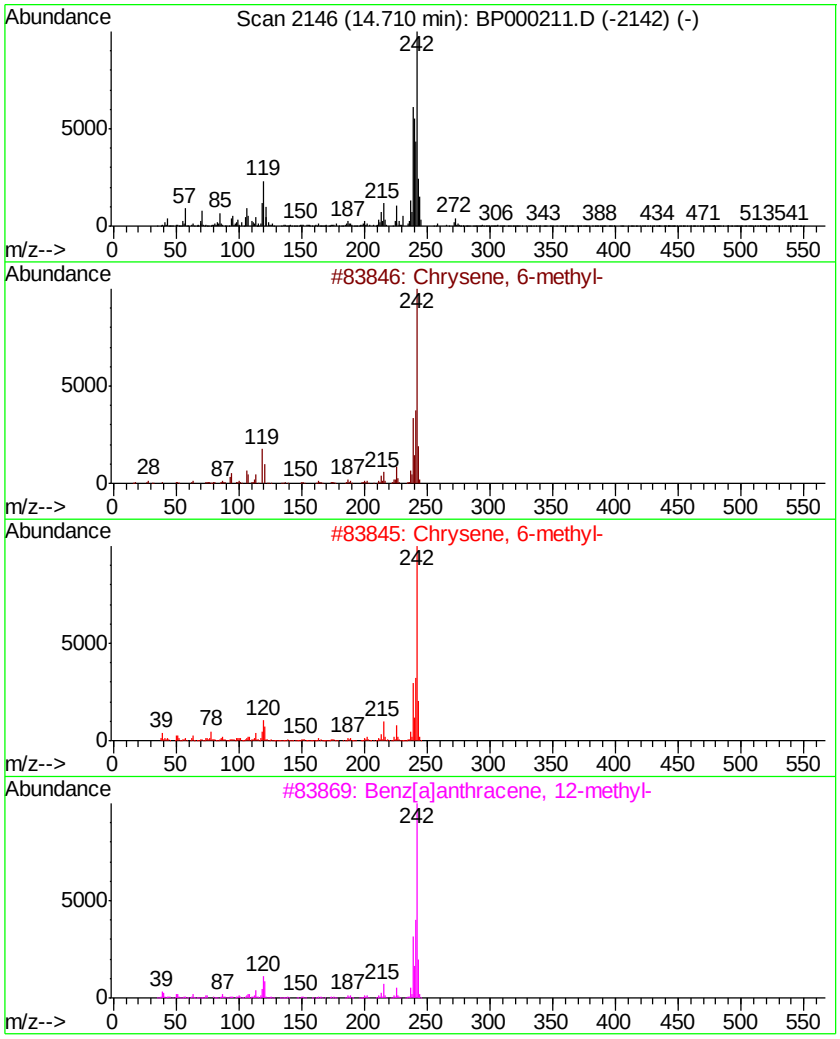
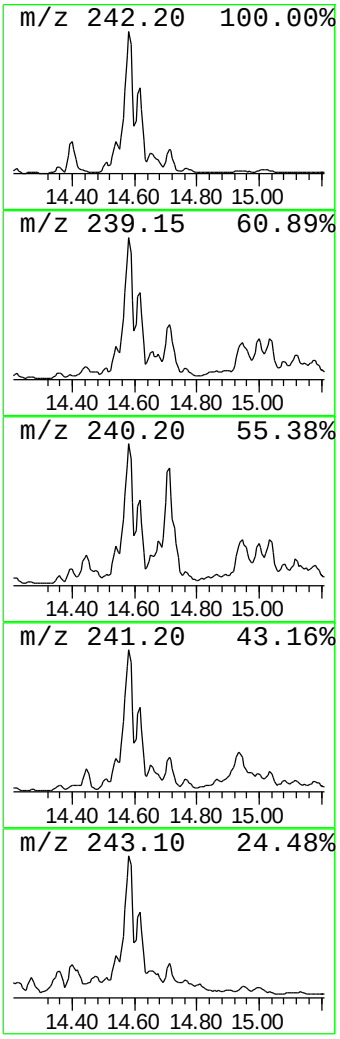
Peak Number 28 Chrysene, 6-methyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	2.04 ng/ul	1793530	Chrysene-d12	14.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 6-methyl-	242	C19H14	001705-85-7	95
2	Chrysene, 6-methyl-	242	C19H14	003697-24-3	91
3	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	70
4	Chrysene, 6-methyl-	242	C19H14	003697-24-3	60
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	60





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ALS Vial : 5 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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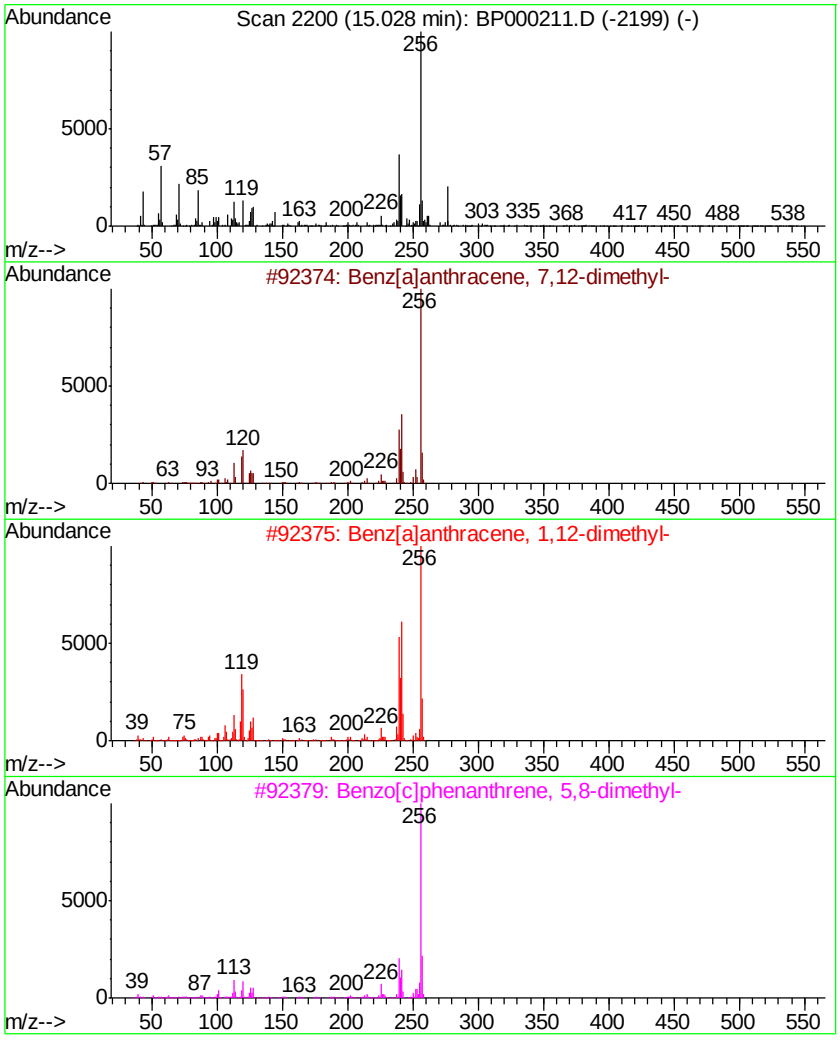
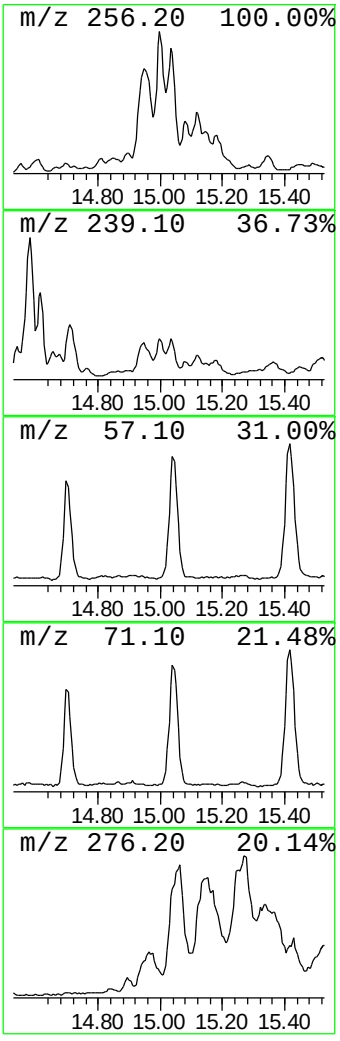
Peak Number 29 Benz[a]anthracene, 7,12-dim... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	3.95 ng/ul	1400060	Perylene-d12	15.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	58
2	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	52
3	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	52
4	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	52
5	4-Hydroxy-1-methyl-6-phenyl-3-(p...	256	C15H16N2O2	1000239-66-9	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

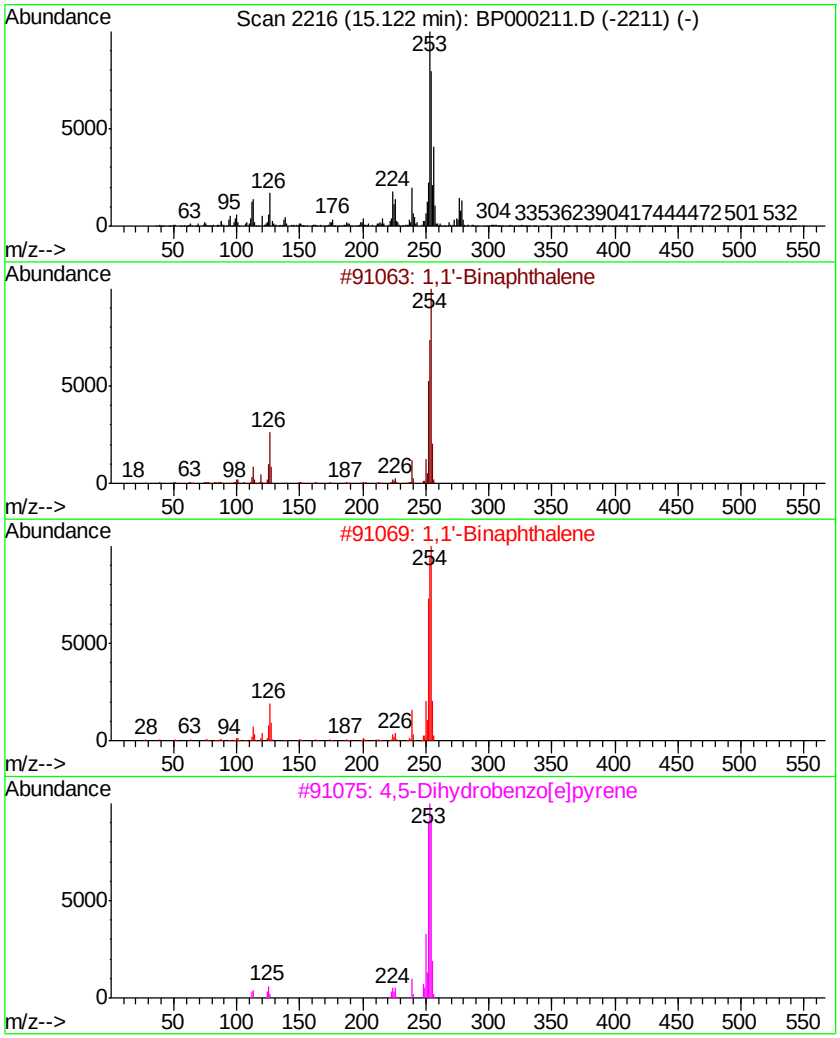
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

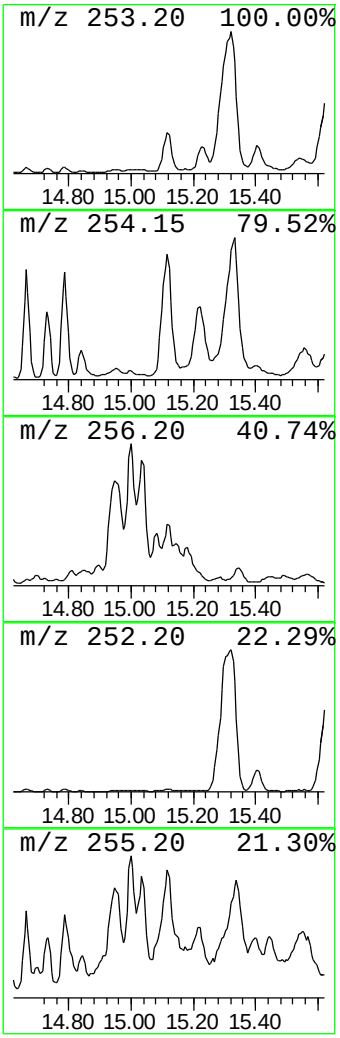
****

Peak Number 30 1,1'-Binaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	4.39 ng/ul	1553240	Perylene-d12	15.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	62
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	62
3	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	62
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	60
5	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091219\
Data File : BP000211.D
Acq On : 12 Sep 2019 12:25
Operator : HP/JU
Sample : K4634-15
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D33

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	2.18	153.3	ng/ul	17010700	1	6.89	2219230	20.0
unknown-01	3.77	2.3	ng/ul	253998	1	6.89	2219230	20.0
9H-Fluoren-9-one	11.26	3.0	ng/ul	484956	4	11.46	3276710	20.0
Dibenzothiophene	11.35	2.5	ng/ul	402835	4	11.46	3276710	20.0
Dibenzothiophene,...	11.80	2.2	ng/ul	360735	4	11.46	3276710	20.0
Dibenzothiophene,...	11.88	2.3	ng/ul	381952	4	11.46	3276710	20.0
Phenanthrene, 2-m...	11.97	10.3	ng/ul	1685630	4	11.46	3276710	20.0
Phenanthrene, 1-m...	12.00	15.2	ng/ul	2497180	4	11.46	3276710	20.0
Anthracene, 2-met...	12.05	2.4	ng/ul	385954	4	11.46	3276710	20.0
4H-Cyclopenta[def...	12.09	9.6	ng/ul	1566990	4	11.46	3276710	20.0
Anthracene, 9-met...	12.11	4.4	ng/ul	725625	4	11.46	3276710	20.0
2-Phenylnaphthalene	12.27	5.1	ng/ul	842027	4	11.46	3276710	20.0
9,10-Anthracenedione	12.30	7.7	ng/ul	1260350	4	11.46	3276710	20.0
Phenanthrene, 2,3...	12.43	4.8	ng/ul	784827	4	11.46	3276710	20.0
Phenanthrene, 3,6...	12.46	5.2	ng/ul	854010	4	11.46	3276710	20.0
di-p-Tolylacetylene	12.48	3.7	ng/ul	607582	4	11.46	3276710	20.0
Cyclopenta(def)ph...	12.62	10.1	ng/ul	1656050	4	11.46	3276710	20.0
Pyrene, 1-methyl-	13.16	2.9	ng/ul	2566100	5	14.18	17572800	20.0
Fluoranthene, 2-m...	13.38	5.9	ng/ul	5181910	5	14.18	17572800	20.0
Pyrene, 4-methyl-	13.47	2.1	ng/ul	1866060	5	14.18	17572800	20.0
Benzo[b]naphtho[2...	13.92	5.8	ng/ul	5095360	5	14.18	17572800	20.0
Cyclopenta[cd]pyrene	13.97	2.5	ng/ul	2183880	5	14.18	17572800	20.0
11H-Benzo[a]fluor...	14.02	3.0	ng/ul	2679500	5	14.18	17572800	20.0
Benzo[b]naphtho[2...	14.35	2.8	ng/ul	2440970	5	14.18	17572800	20.0
Chrysene, 2-methyl-	14.58	5.6	ng/ul	4903990	5	14.18	17572800	20.0
Chrysene, 6-methyl-	14.71	2.0	ng/ul	1793530	5	14.18	17572800	20.0
Benz[a]anthracene...	15.03	4.0	ng/ul	1400060	6	15.76	7082670	20.0
1,1'-Binaphthalene	15.12	4.4	ng/ul	1553240	6	15.76	7082670	20.0