LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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	2.170	7	14	19	rBV	8825108	14064365	39.37%	4.801%
2	2.281	29	33	38	rVV	60768	75125	0.21%	0.026%
3	2.617	86	90	97	rBV	56029	81055	0.23%	0.028%
4	3.975	316	321	324	rVV	83966	116624	0.33%	0.040%
5	5.093	507	511	516	rBV	74256	74892	0.21%	0.026%
6	6.516	749	753	759	rBV2	1844951	1804465	5.05%	0.616%
7	6.575	759	763	767	rVB	1542797	1248362	3.49%	0.426%
8	6.663	774	778	782	rBV	2114201	1713926	4.80%	0.585%
9	6.899	814	818	821	rBV	2275404	1910777	5.35%	0.652%
10	7.263	876	880	883	rBV	2496983	1892802	5.30%	0.646%
11	7.452	908	912	915	rBV	1892385	1454783	4.07%	0.497%
12	7.775	964	967	971	rBV	1327066	1193722	3.34%	0.407%
13	8.016	1005	1008	1012	rBV	2200355	1950378	5.46%	0.666%
14	8.181	1032	1036	1038	rBV	3333793	2566269	7.18%	0.876%
15	8.205	1038	1040	1042	rVV	543995	427685	1.20%	0.146%
16	8.234	1042	1045	1056	rVB	795641	730407	2.04%	0.249%
17	8.899	1155	1158	1161	rVV	321758	270961	0.76%	0.092%
18	8.999	1171	1175	1182	rVV	201077	176939	0.50%	0.060%
19	9.363	1232	1237	1241	rBV2	92489	114829	0.32%	0.039%
20	9.457	1251	1253	1258	rVB	91799	93408	0.26%	0.032%
21	9.534	1261	1266	1269	rBV2	143005	196760	0.55%	0.067%
22	9.604	1274	1278	1280	rBV	182423	191036	0.53%	0.065%
23	9.634	1280	1283	1285	rVV	3059116	2492548	6.98%	0.851%
24	9.657	1285	1287	1292	rVB	1527581	1092374	3.06%	0.373%
25	9.793	1306	1310	1315	rBV	3837755	3382822	9.47%	1.155%
26	9.952	1333	1337	1340	rBV	3434160	2899515	8.12%	0.990%
27	9.981	1340	1342	1346	rVV	2305256	1841704	5.16%	0.629%
28	10.040	1349	1352	1361	rVB4	581505	817119	2.29%	0.279%
29	10.157	1368	1372	1376	rVB	808805	786063	2.20%	0.268%
30	10.299	1394	1396	1403	rVB	126662	149048	0.42%	0.051%
31	10.475	1422	1426	1429	rBV	3983889	3528015	9.88%	1.204%
32	10.504	1429	1431	1435	rVB	1003061	801631	2.24%	0.274%
33	10.551	1435	1439	1441	rBV2	499178	594460	1.66%	0.203%
34	10.593	1444	1446	1449	rVV2	269416	268420	0.75%	0.092%

LSC Area Percent Report

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Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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	10.640	1452	1454	1456	rVV	188168	172605	0.48%	0.059%
36	10.663	1456	1458	1463	rVB	304623	248238	0.69%	0.085%
37	10.746	1468	1472	1476	rVV	294932	376051	1.05%	0.128%
38	10.793	1476	1480	1484	rVB3	79443	109732	0.31%	0.037%
39	10.875	1490	1494	1498	rVB	318453	337018	0.94%	0.115%
40	11.040	1518	1522	1524	rBV3	165136	266277	0.75%	0.091%
41	11.063	1524	1526	1528	rVV2	197116	183351	0.51%	0.063%
42	11.087	1528	1530	1533	rVB2	159575	144218	0.40%	0.049%
43	11.193	1543	1548	1550	rBV2	143673	212673	0.60%	0.073%
44	11.216	1550	1552	1556	rVV	196690	209168	0.59%	0.071%
45	11.257	1556	1559	1564	rVB	1092653	1149881	3.22%	0.393%
46	11.316	1564	1569	1572	rBV3	522624	624336	1.75%	0.213%
47	11.351	1572	1575	1582	rVB	1209556	1192895	3.34%	0.407%
48	11.463	1589	1594	1595	rBV	2624811	2959610	8.28%	1.010%
49	11.493	1595	1599	1602	rVV	11986224	14901570	41.71%	5.087%
50	11.522	1602	1604	1605	rVV	3653485	3237993	9.06%	1.105%
51	11.540	1605	1607	1610	rVV	3158845	2807055	7.86%	0.958%
52	11.569	1610	1612	1616	rVV	495727	488471	1.37%	0.167%
53	11.640	1622	1624	1627	rVB	122906	119229	0.33%	0.041%
54	11.693	1627	1633	1641	rBV2	2607952	3344927	9.36%	1.142%
55	11.757	1641	1644	1647	rBV2	243973	239120	0.67%	0.082%
56	11.798	1647	1651	1656	rVB2	771417	834167	2.34%	0.285%
57	11.881	1661	1665	1670	rVB	672610	827814	2.32%	0.283%
58	11.928	1670	1673	1675	rBV	143687	153516	0.43%	0.052%
59	11.975	1676	1681	1683	rBV	2611974	2925869	8.19%	0.999%
60	12.004	1683	1686	1690	rVB	4125205	4286033	12.00%	1.463%
61	12.051	1690	1694	1696	rBV	682107	705210	1.97%	0.241%
62	12.087	1696	1700	1702	rBV	2733795	3048280	8.53%	1.041%
63	12.110	1702	1704	1708	rVB	1512561	1440323	4.03%	0.492%
64	12.151	1708	1711	1713	rBV	253862	274247	0.77%	0.094%
65	12.181	1713	1716	1719	rBV3	338897	334932	0.94%	0.114%
66	12.210	1719	1721	1724	rBV	423022	401078	1.12%	0.137%
67	12.275	1728	1732	1734	rBV	1504233	1615097	4.52%	0.551%
68	12.310	1734	1738	1742	rVB	1674923	2360246	6.61%	0.806%
69	12.346	1742	1744	1747	rVB	212016	180562	0.51%	0.062%
70	12.381	1747	1750	1753	rBV	309039	341828	0.96%	0.117%
71	12.428	1753	1758	1761	rBV2	926299	1226357	3.43%	0.419%

LSC Area Percent Report

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Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

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Peak separation: 5

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

72	12.457	1761	1763	1766	rBV	1277708	1434569	4.02%	0.490%
73	12.487	1766	1768	1772	rVB	1187015	1147799	3.21%	0.392%
74	12.540	1772	1777	1780	rBV	1727221	2305461	6.45%	0.787%
75	12.575	1780	1783	1785	rBV4	490049	585877	1.64%	0.200%
76	12.634	1789	1793	1798	rBV2	1409585	1915194	5.36%	0.654%
77	12.675	1798	1800	1801	rBV	182341	144323	0.40%	0.049%
78	12.722	1801	1808	1815	rBV	13075048	24761092	69.31%	8.453%
79	12.857	1827	1831	1836	rBV2	1492424	2041135	5.71%	0.697%
80	12.957	1836	1848	1853	rBV3	12376929	29197002	81.73%	9.967%
81	13.063	1860	1866	1870	rBV2	1388815	2554162	7.15%	0.872%
82	13.104	1870	1873	1878	rVB	1404271	1971252	5.52%	0.673%
83	13.169	1878	1884	1891	rBV3	1867932	4563858	12.78%	1.558%
84	13.222	1891	1893	1895	rVB	369533	287943	0.81%	0.098%
85	13.281	1895	1903	1907	rBV	3070216	5535218	15.49%	1.890%
86	13.351	1911	1915	1917	rVV	1143458	1394438	3.90%	0.476%
87	13.393	1917	1922	1929	rVB3	4435416	7552616	21.14%	2.578%
88	13.487	1934	1938	1940	rBV	2087700	2708833	7.58%	0.925%
89	13.516	1940	1943	1947	rVB	1768256	2222529	6.22%	0.759%
90	13.716	1974	1977	1985	rVB3	1125468	2443160	6.84%	0.834%
91	13.822	1990	1995	2001	rVV2	2266615	4323169	12.10%	1.476%
92	13.934	2008	2014	2020	rBV5	4109344	10743372	30.07%	3.667%
93	13.987	2020	2023	2029	rVB4	1222889	2335020	6.54%	0.797%
94	14.045	2029	2033	2039	rVB	1404262	2904796	8.13%	0.992%
95	14.098	2039	2042	2046	rVB	614044	838574	2.35%	0.286%
96	14.192	2050	2058	2061	rBV2	7808490	18559477	51.95%	6.336%
97	14.363	2084	2087	2092	rVB3	829935	1262570	3.53%	0.431%
98	14.610	2122	2129	2139	rBV2	3771777	12439833	34.82%	4.247%
99	14.981	2185	2192	2196	rBV4	1380007	3761214	10.53%	1.284%
100	15.392	2247	2262	2283	rVB2	6238661	35723972	100.00%	12.195%

Sum of corrected areas: 292941724

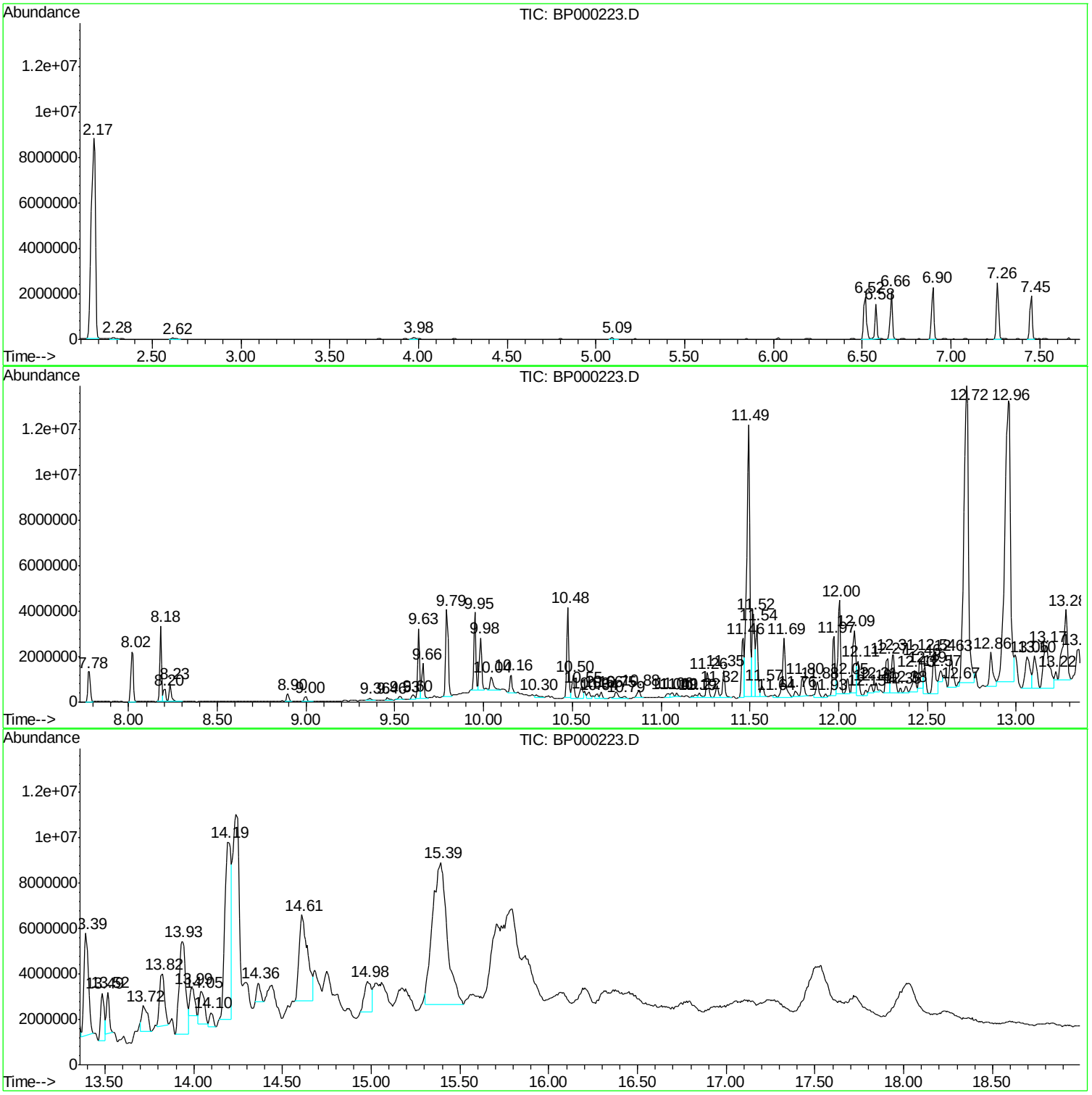
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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 : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

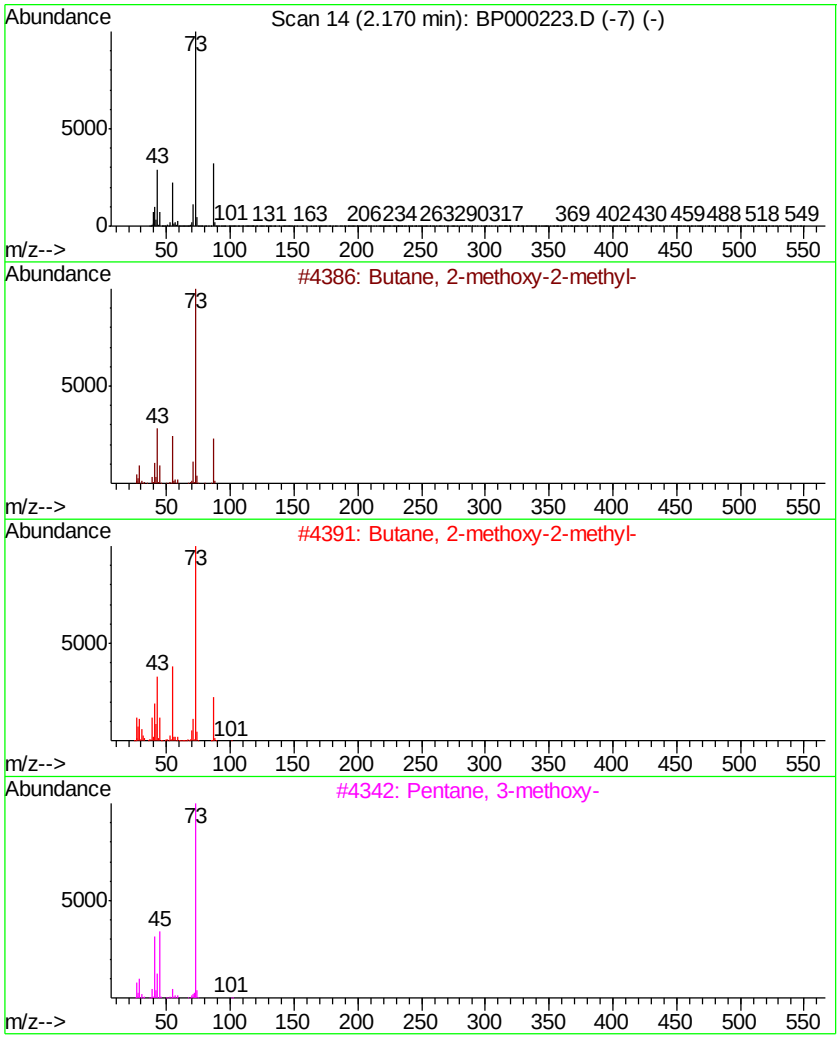
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

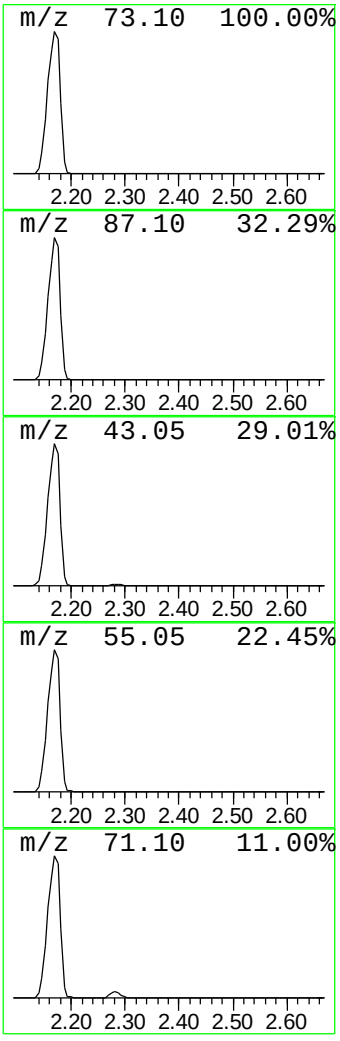
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.17	147.21 ng/ul	14064400	1,4-Dichlorobenzene-d4	6.90

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	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	7





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

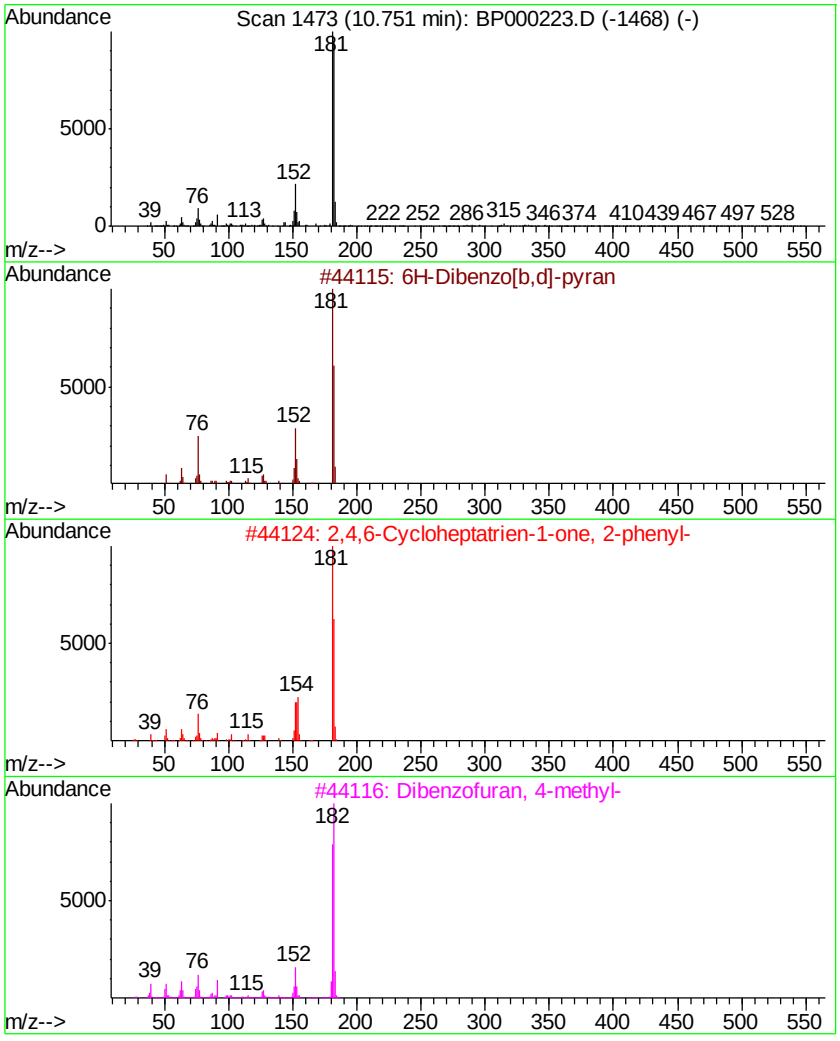
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

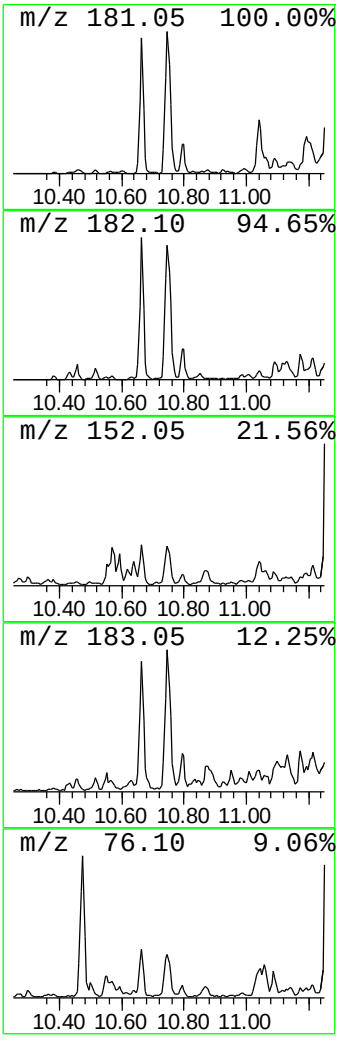
****

Peak Number 2 6H-Dibenzo[b,d]-pyran Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.75	2.54 ng/ul	376051	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	91
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	91
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	80





Library Search Compound Report

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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

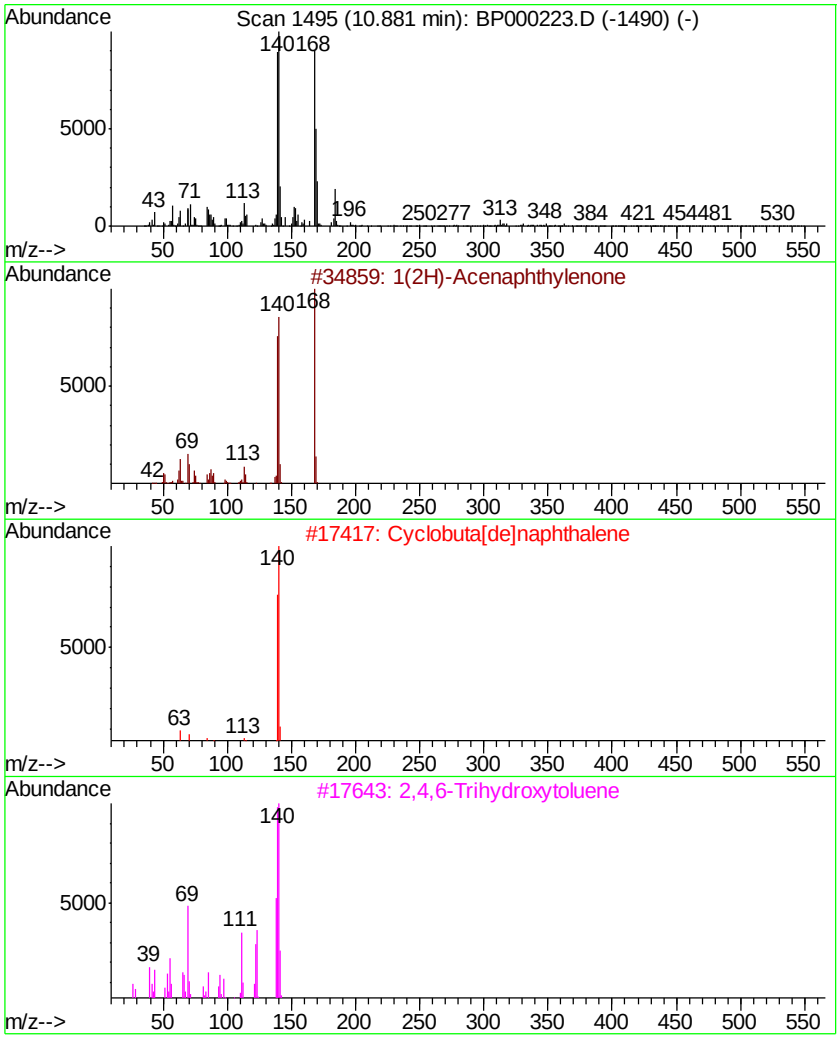
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

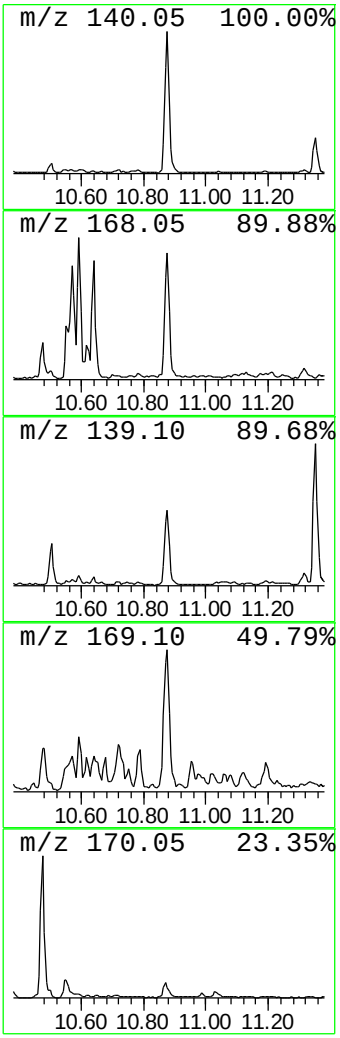
****

Peak Number 3 1(2H)-Acenaphthylenone Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	2.28 ng/ul	337018	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	64
2	Cyclobuta[de]naphthalene	140	C11H8	024973-91-9	45
3	2,4,6-Trihydroxytoluene	140	C7H8O3	000088-03-9	32
4	Benzoic acid, 4-(methylthio)-	168	C8H8O2S	013205-48-6	27
5	Dibenzofuran	168	C12H8O	000132-64-9	27





Library Search Compound Report

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Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

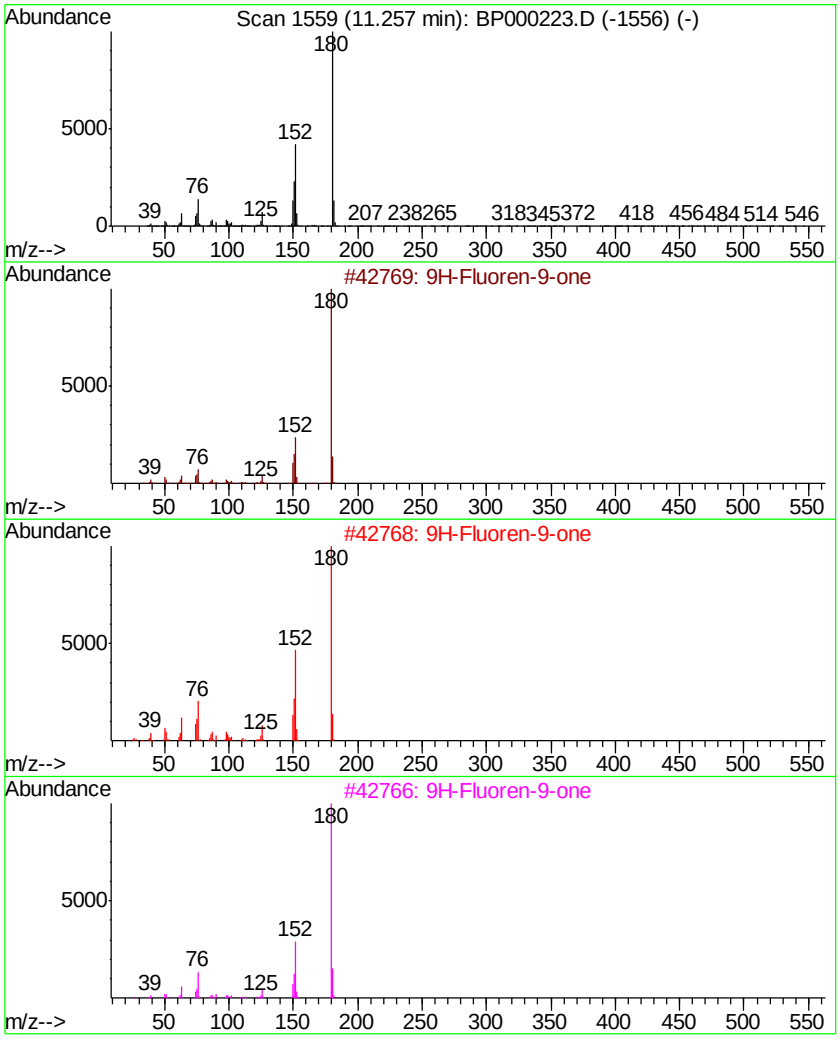
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

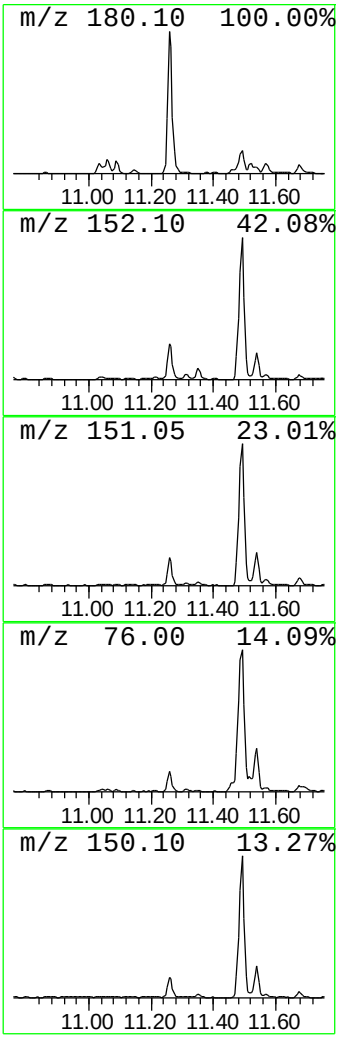
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	7.77 ng/ul	1149880	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	95
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

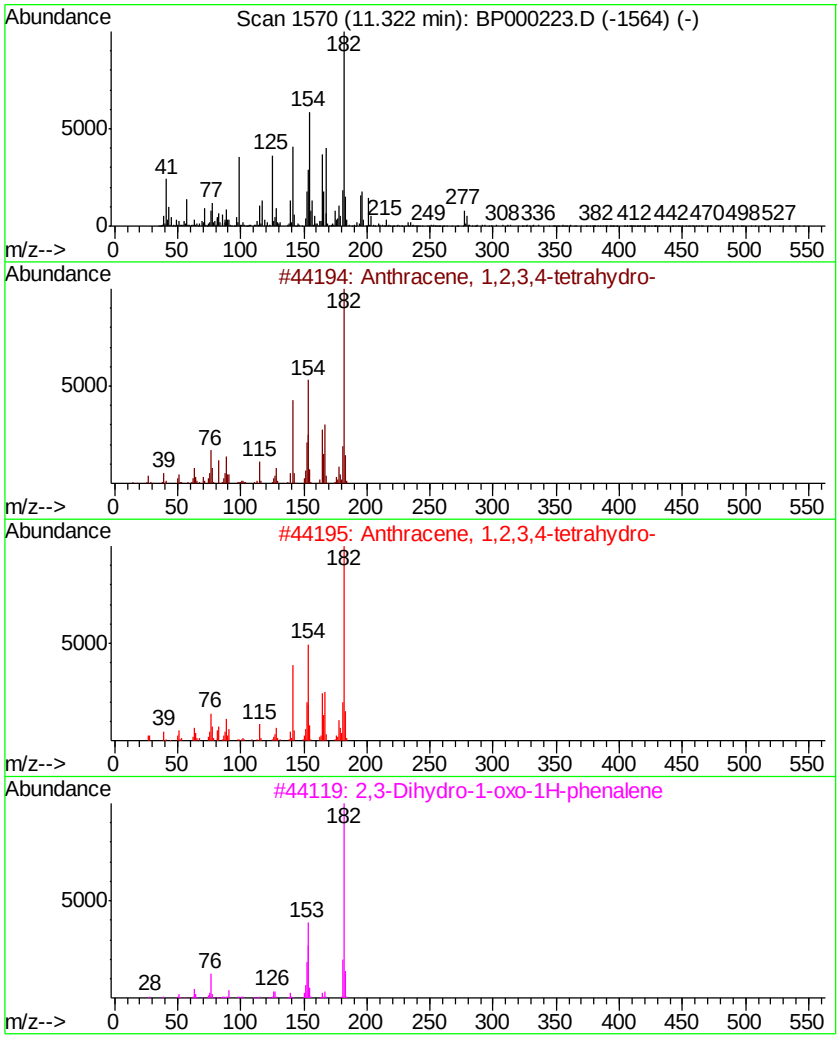
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

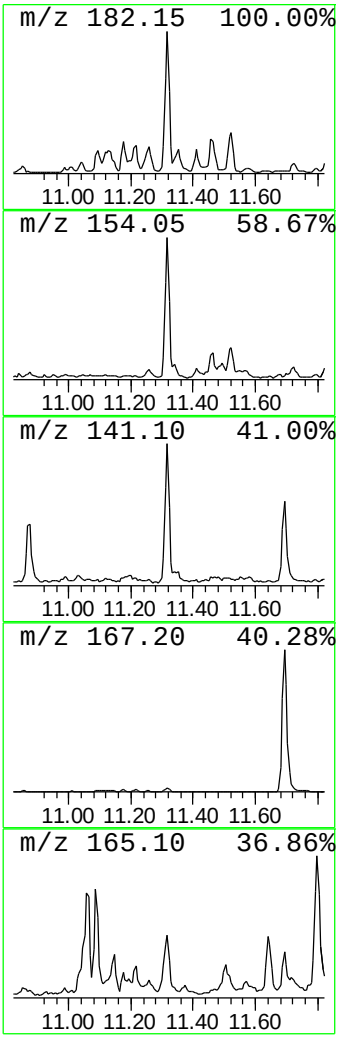
****

Peak Number 5 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	4.22 ng/ul	624336	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	97
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	89
3	2,3-Dihydro-1-oxo-1H-phenalene	182	C13H10O	000518-85-4	83
4	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	60
5	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	55





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Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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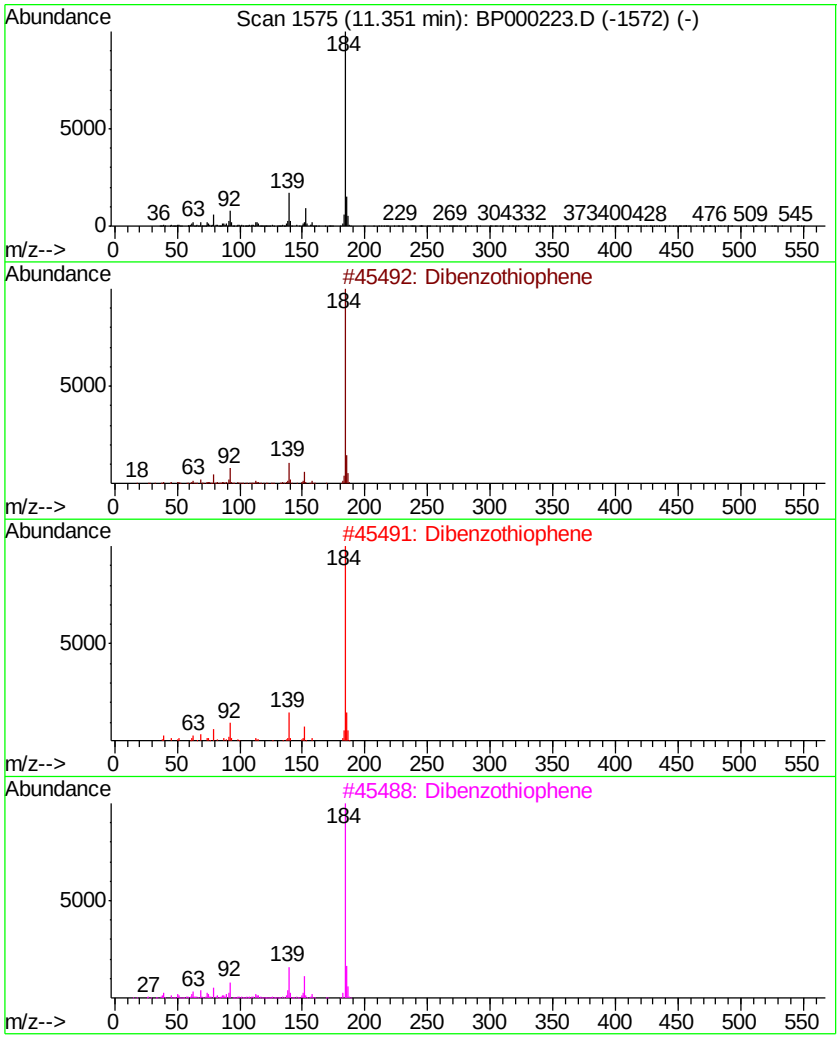
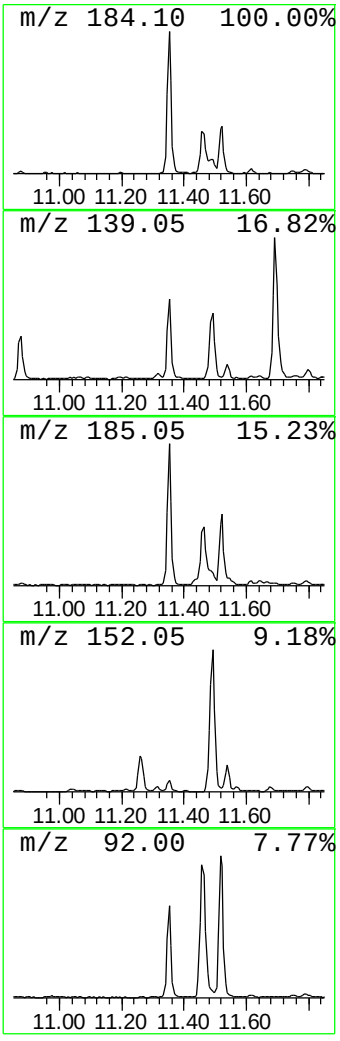
Peak Number 6 Dibenzothiophene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.35	8.06 ng/ul	1192900	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Dibenzothiophene	184	C12H8S	000132-65-0	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	91
5	Dibenzothiophene	184	C12H8S	000132-65-0	91





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Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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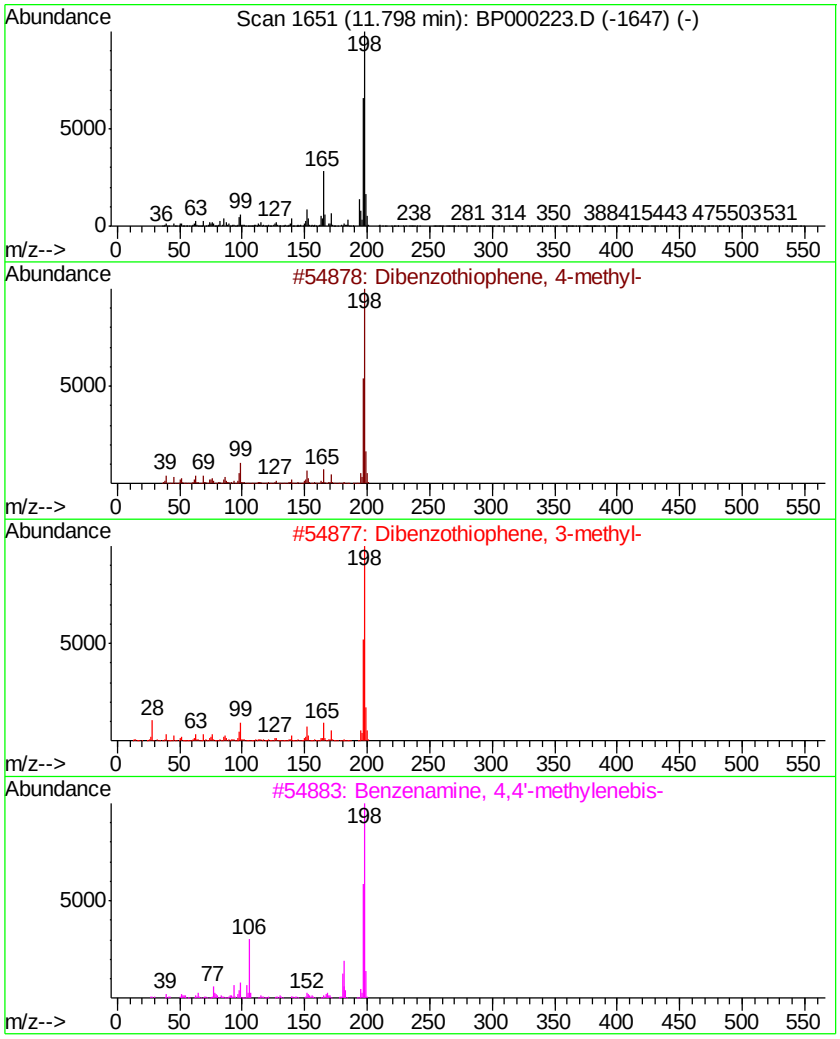
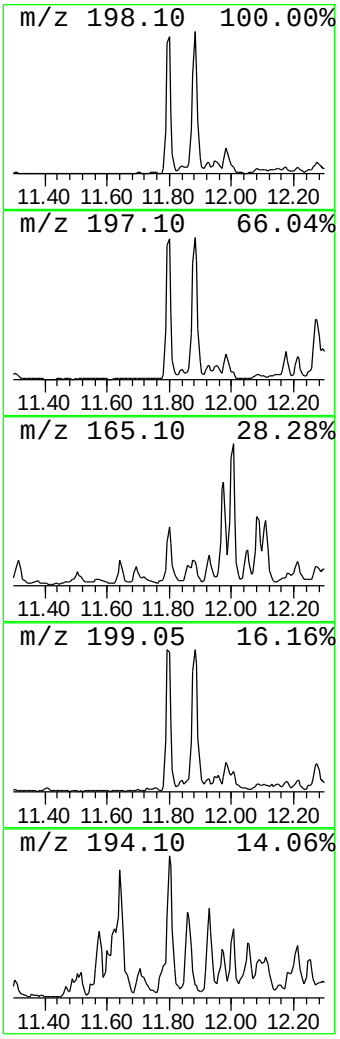
Peak Number 7 Dibenzothiophene, 4-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	5.64 ng/ul	834167	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	72
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	64
4	Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	59
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	59





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Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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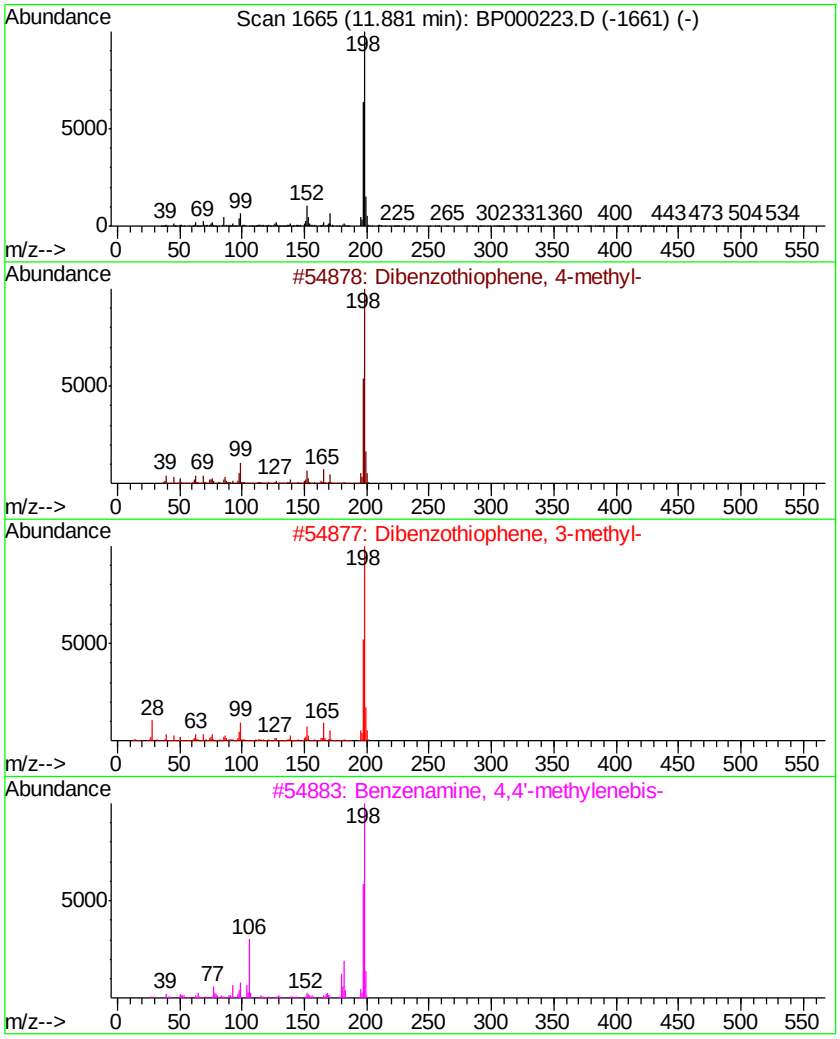
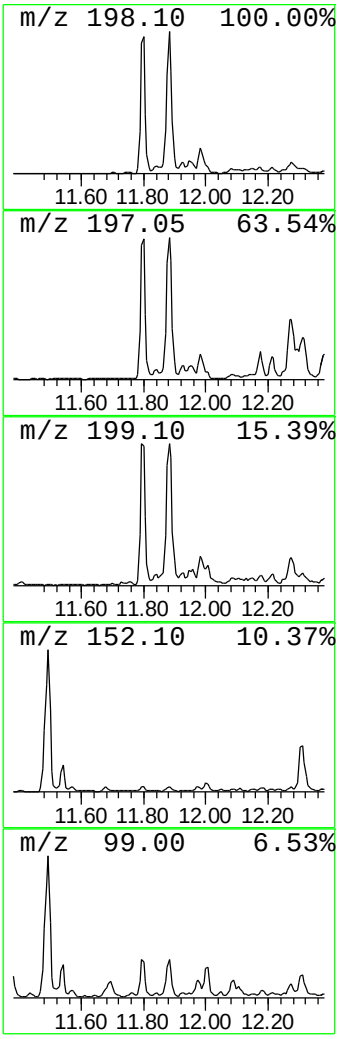
Peak Number 8 Dibenzothiophene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	5.59 ng/ul	827814	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	74
4	.alpha.-[1-Indanylidenelcyanoace...	198	C12H10N2O	058787-18-1	70
5	Pyridine, 4-(4-dimethylaminophen...	198	C13H14N2	001137-80-0	64





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ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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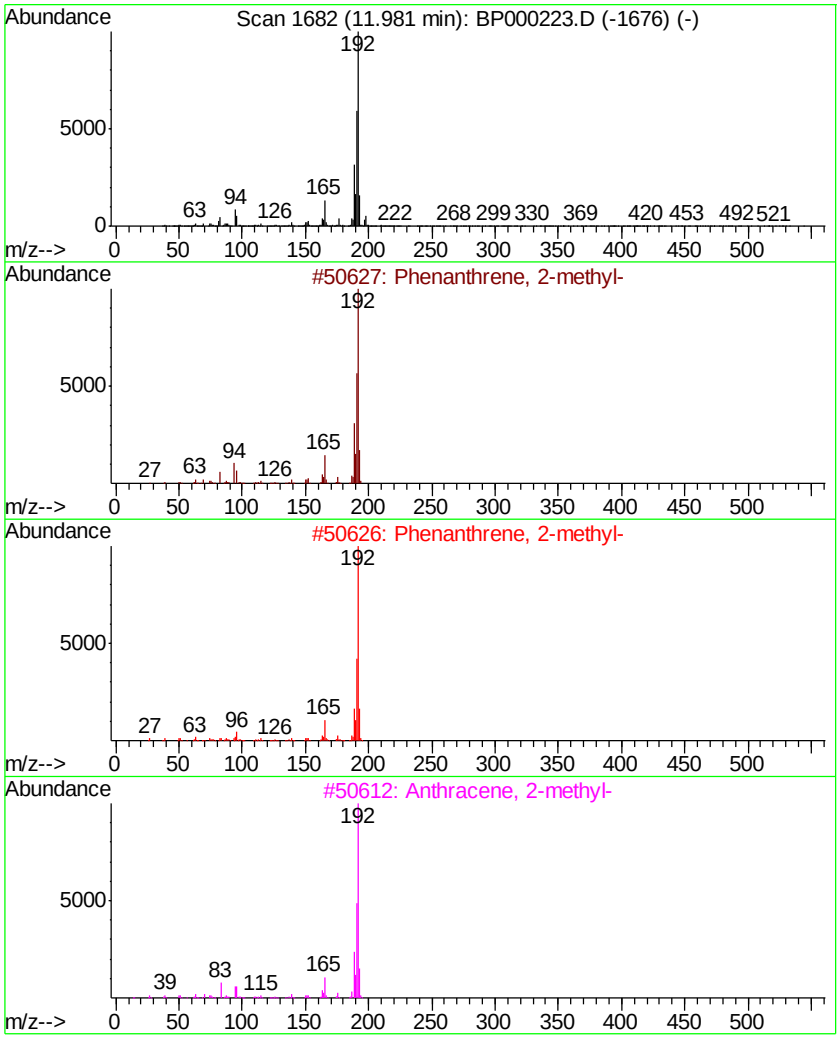
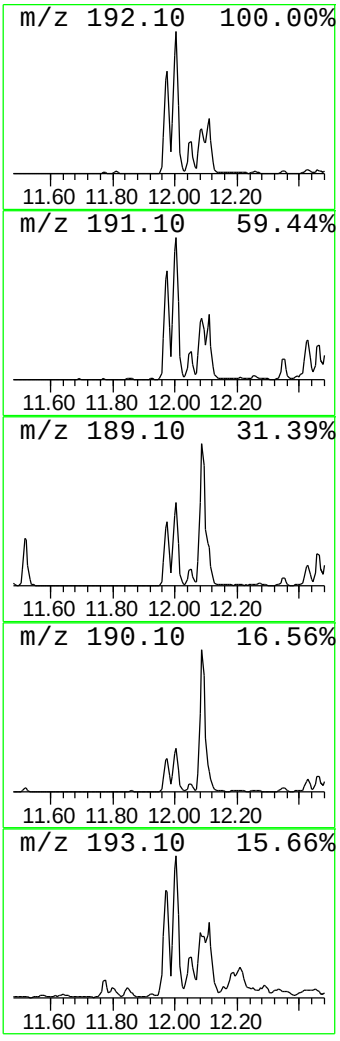
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	19.77 ng/ul	2925870	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, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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Quant Title : SVOA CALIBRATION

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

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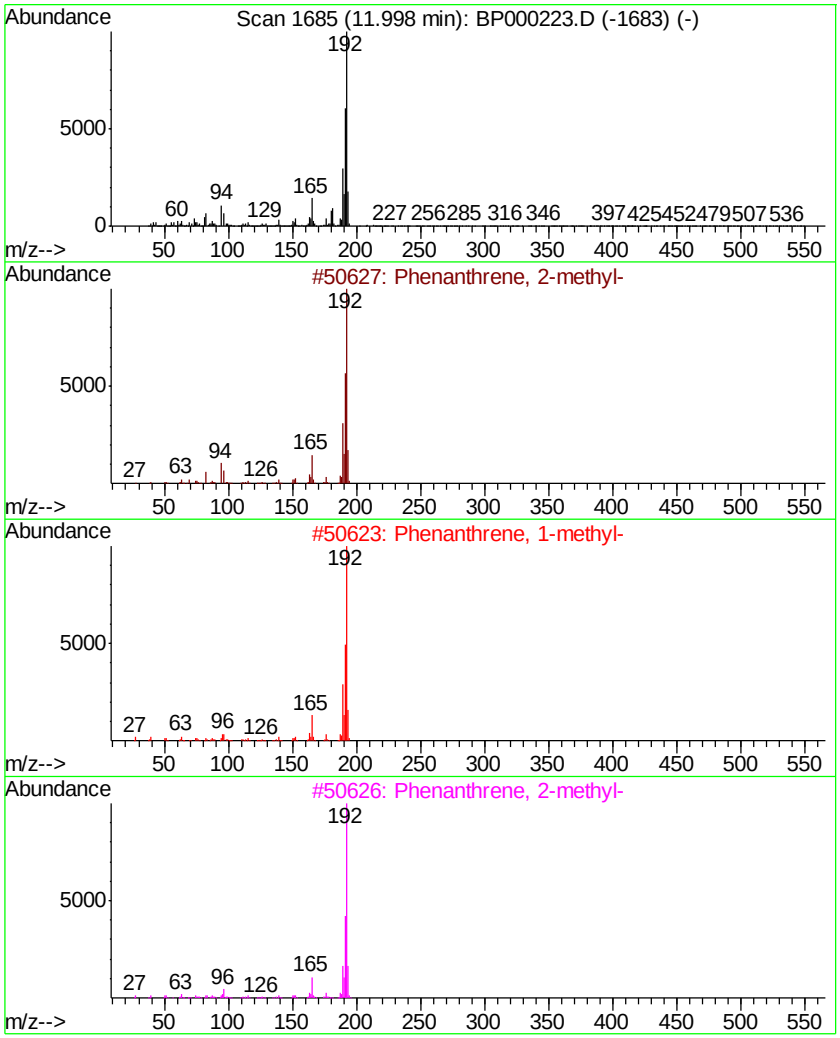
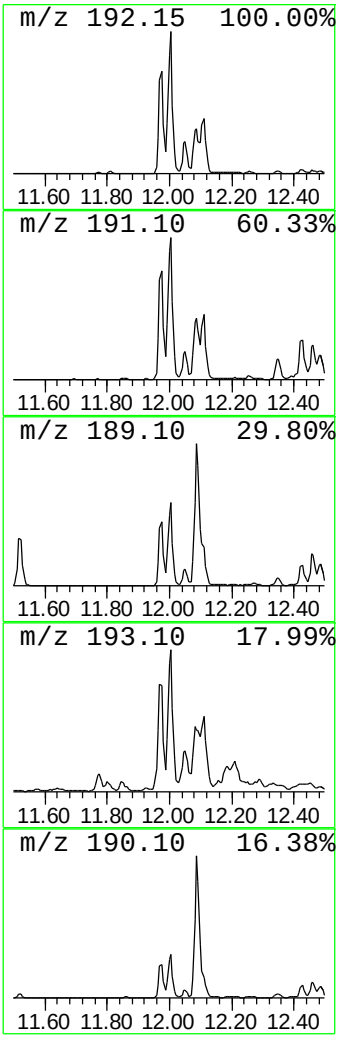
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	28.96 ng/ul	4286030	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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96





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ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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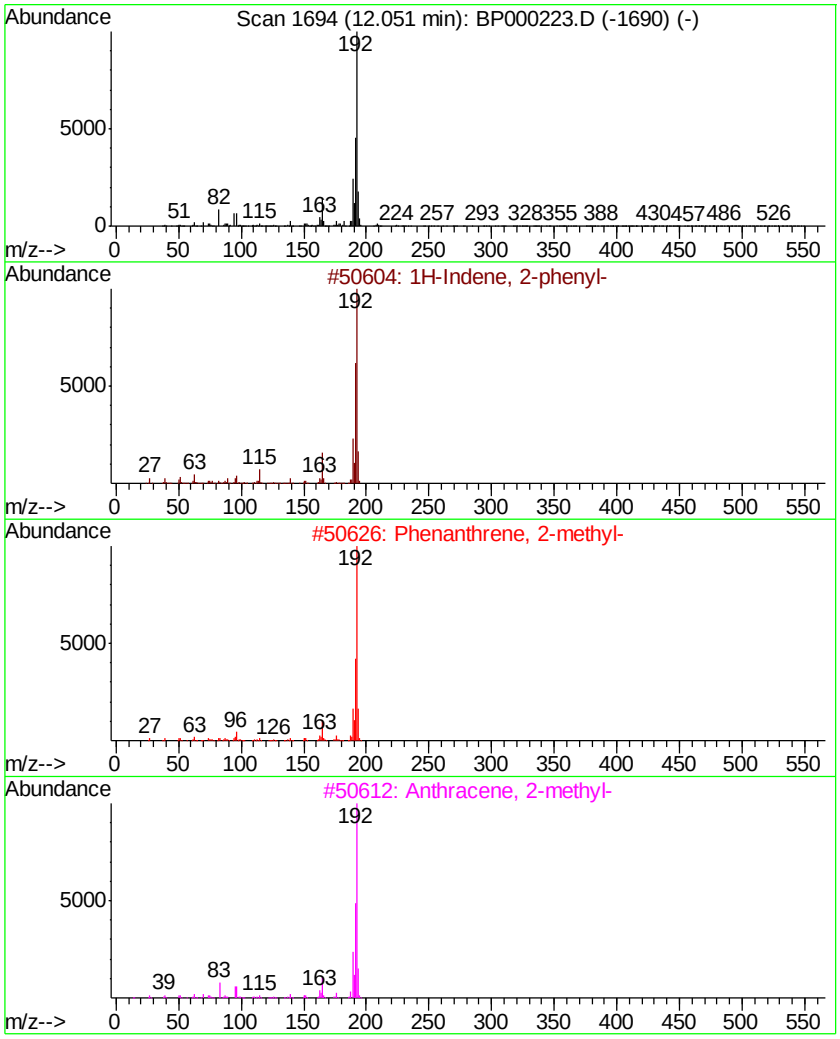
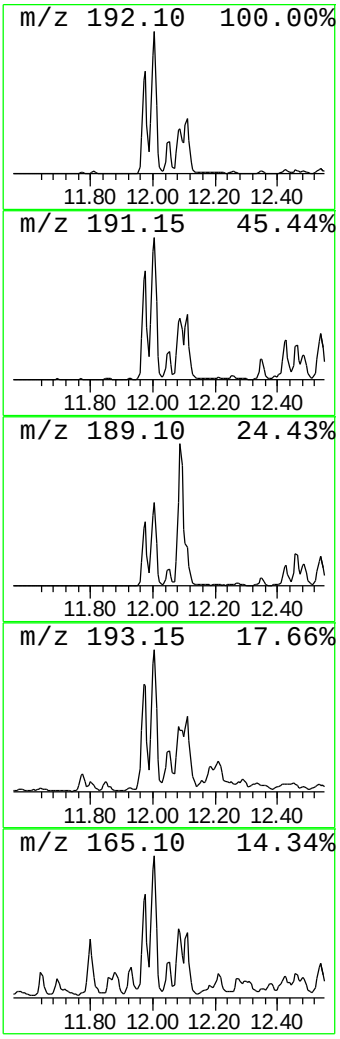
Peak Number 11 1H-Indene, 2-phenyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	4.77 ng/ul	705210	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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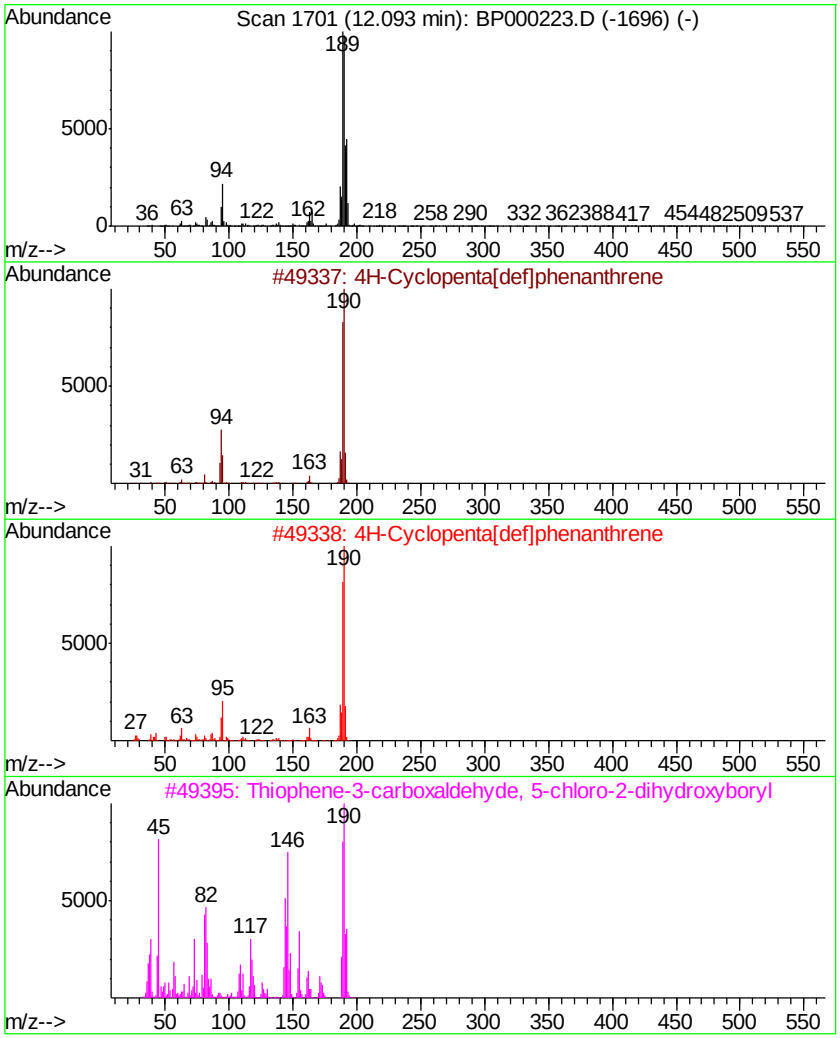
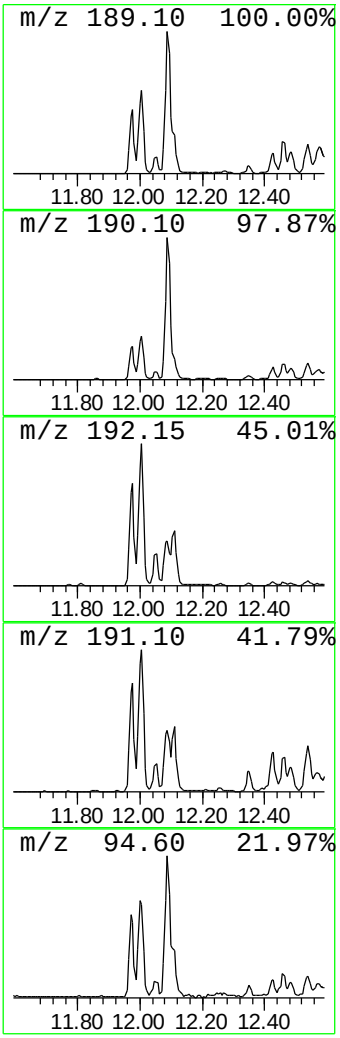
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	20.60 ng/ul	3048280	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	38





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Quant Title : SVOA CALIBRATION

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

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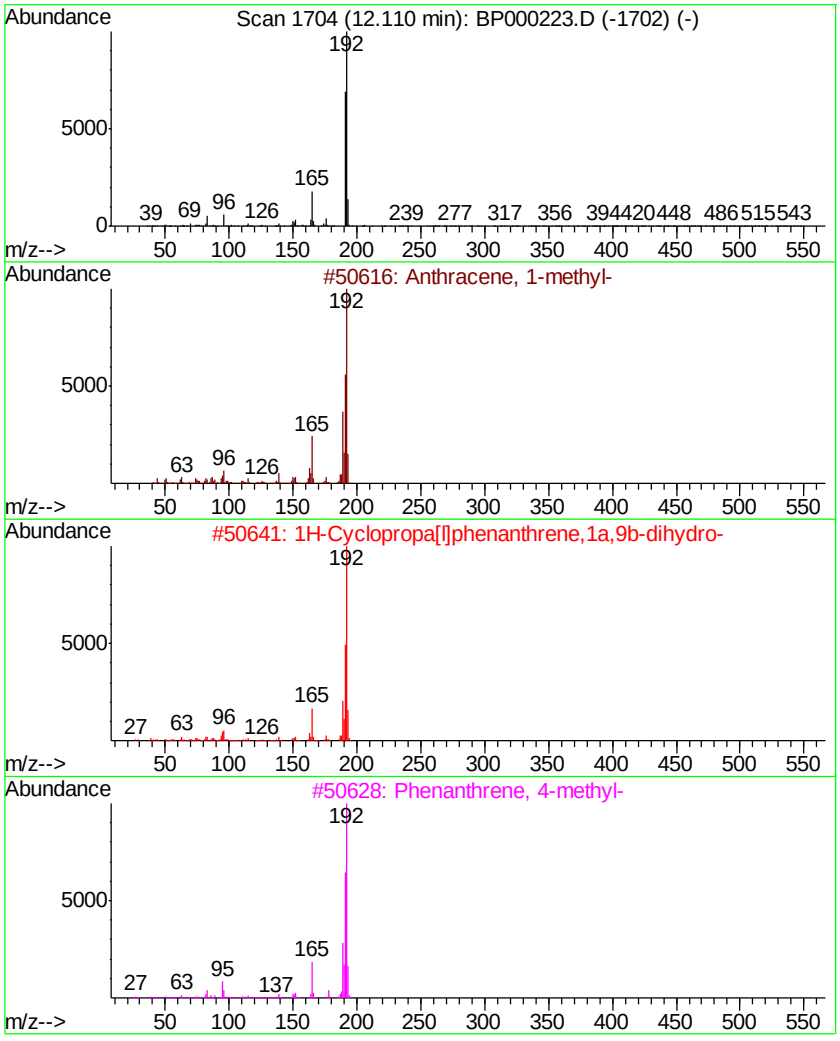
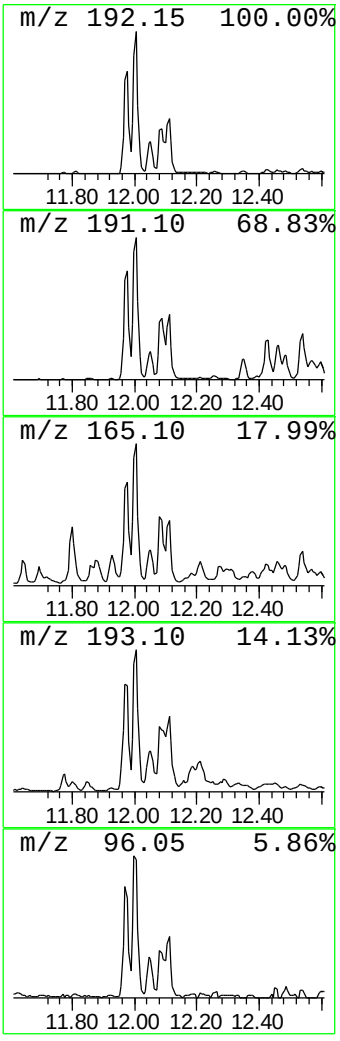
Peak Number 13 Anthracene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	9.73 ng/ul	1440320	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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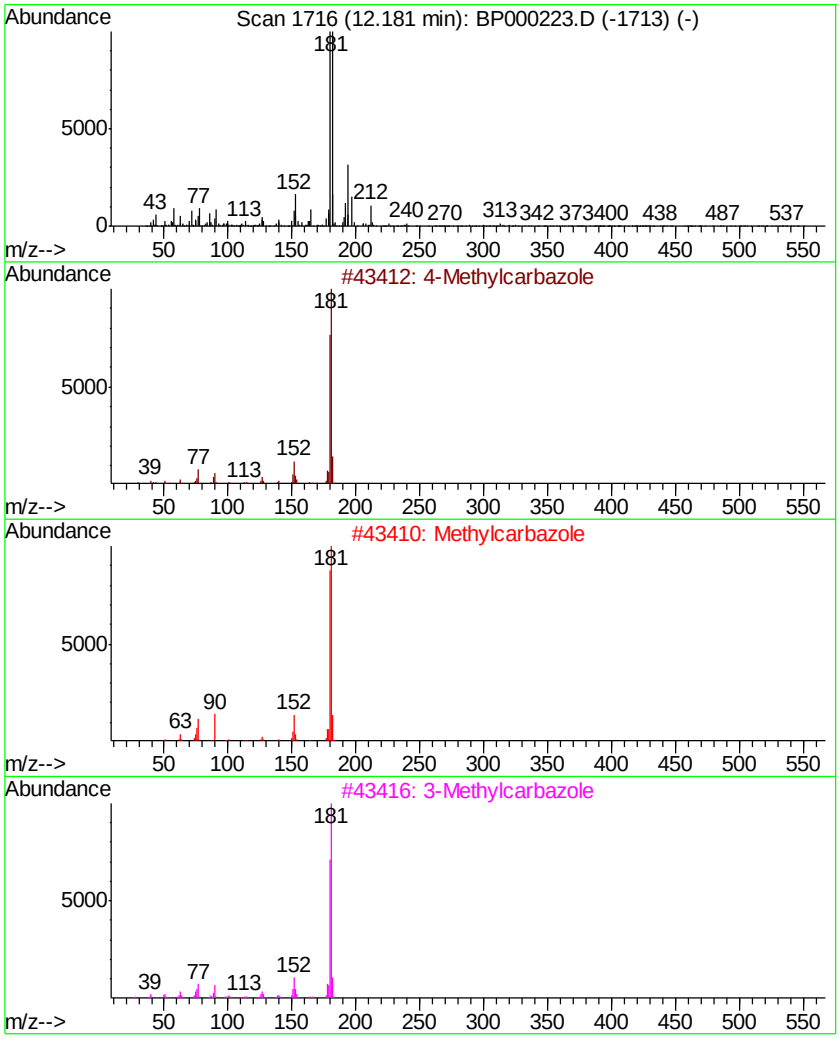
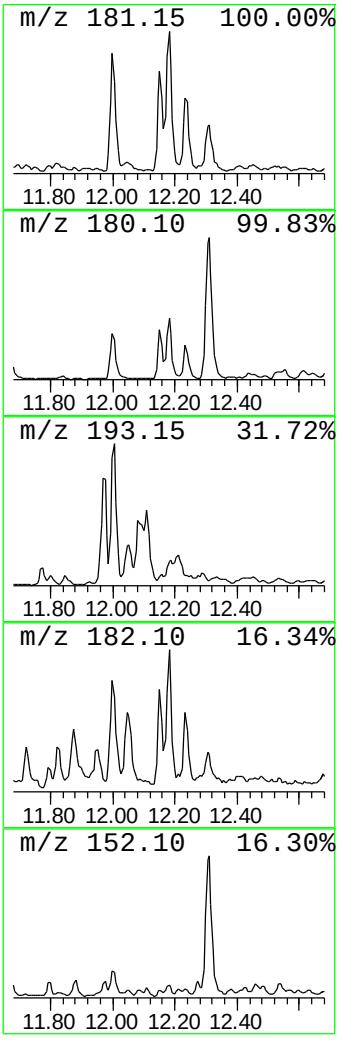
Peak Number 14 4-Methylcarbazole Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	2.26 ng/ul	334932	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylcarbazole	181	C13H11N	003770-48-7	97
2	Methylcarbazole	181	C13H11N	027323-29-1	93
3	3-Methylcarbazole	181	C13H11N	004630-20-0	93
4	3-Methylcarbazole	181	C13H11N	004630-20-0	93
5	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	89





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

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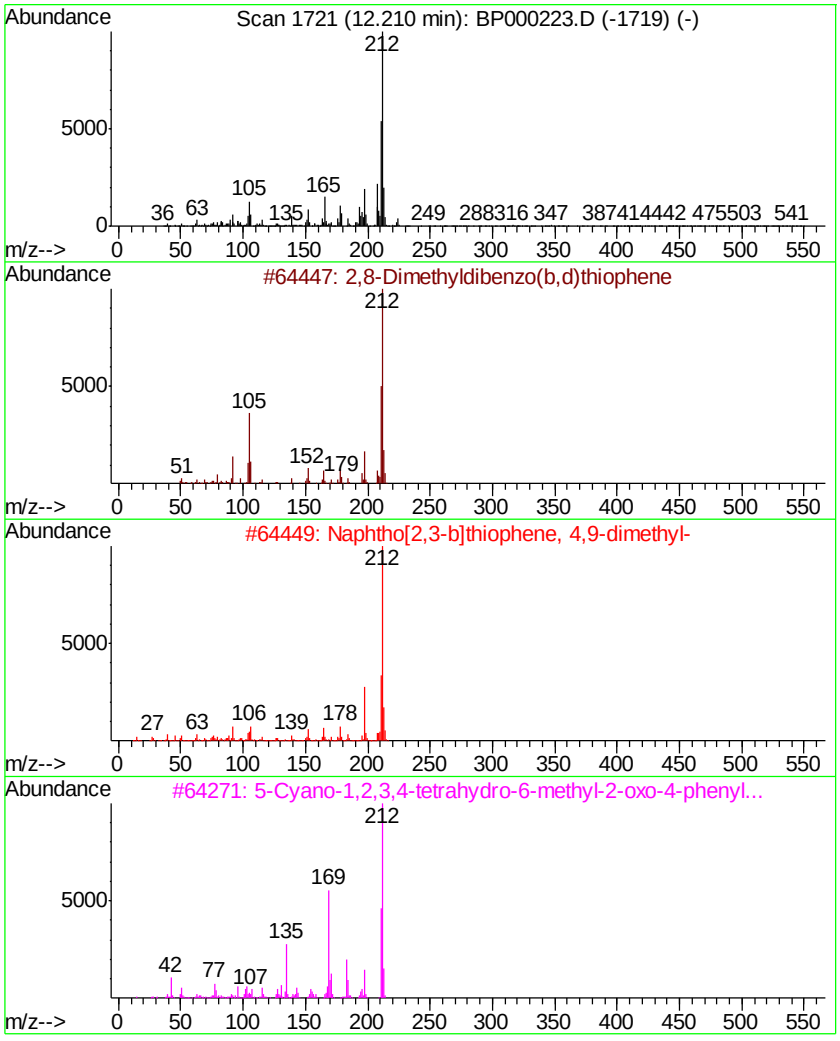
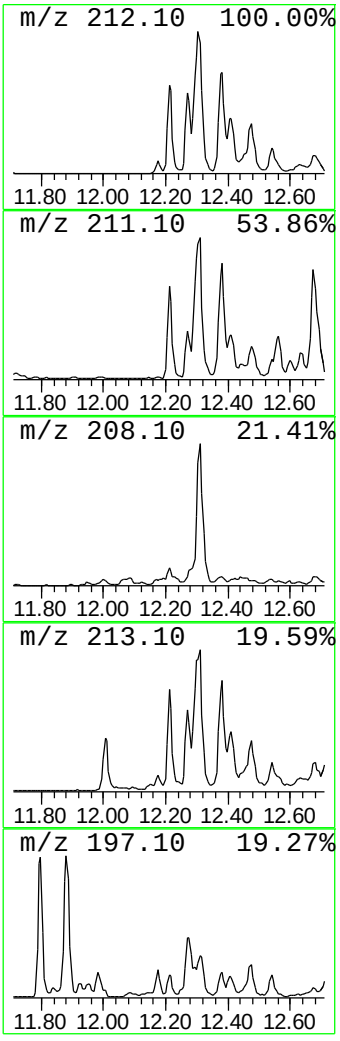
Peak Number 15 2,8-Dimethyldibenzo(b,d)thi... Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	2.71 ng/ul	401078	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	94
2	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	92
3	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	64
4	2,5-Dimethyl-4-(3-amino-4-methyl...	212	C14H16N2	071153-33-8	53
5	(E)-2-Fluoro-3-(4-fluorophenyl)-...	212	C11H10F2O2	111055-87-9	50





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Quant Title : SVOA CALIBRATION

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

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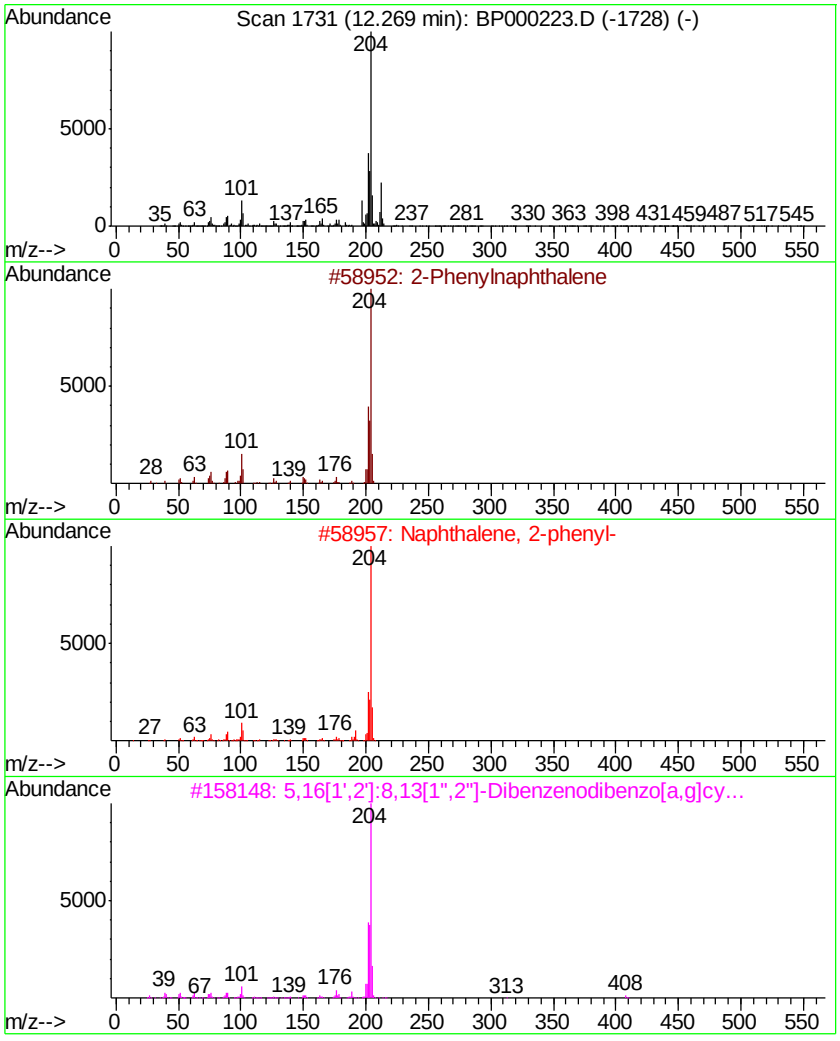
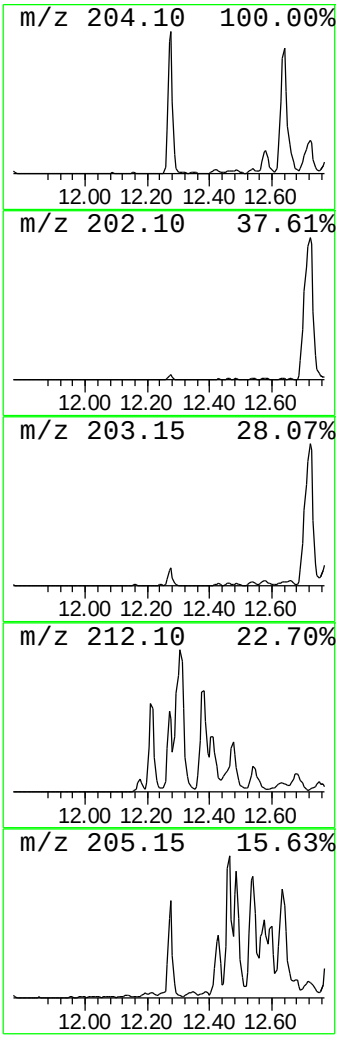
Peak Number 16 2-Phenylnaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	10.91 ng/ul	1615100	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	91
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	55
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53





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Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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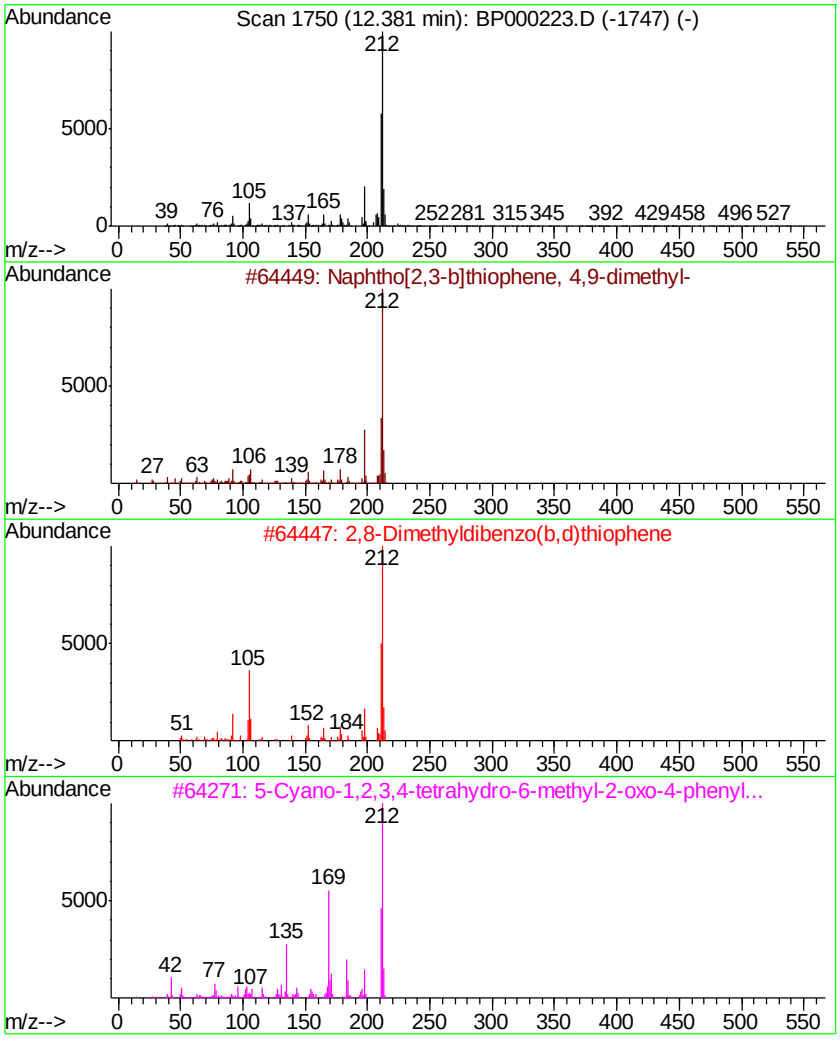
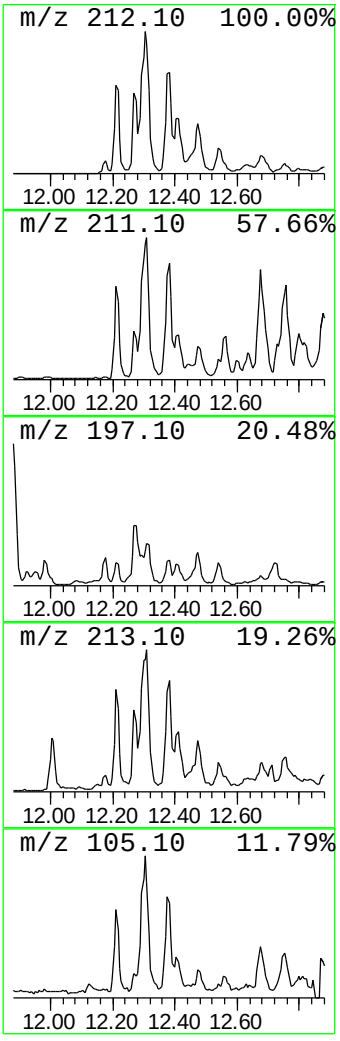
Peak Number 18 Naphtho[2,3-b]thiophene, 4,... Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	2.31 ng/ul	341828	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene, 4,9-dim...	212	C14H12S	016587-34-1	95
2	2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	91
3	5-Cyano-1,2,3,4-tetrahydro-6-met...	212	C13H12N2O	027036-92-6	80
4	Harmine	212	C13H12N2O	000442-51-3	50
5	Benzo[c]2,7-naphthiridine-4,5(3H...	212	C12H8N2O2	174565-23-2	50





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Quant Title : SVOA CALIBRATION

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

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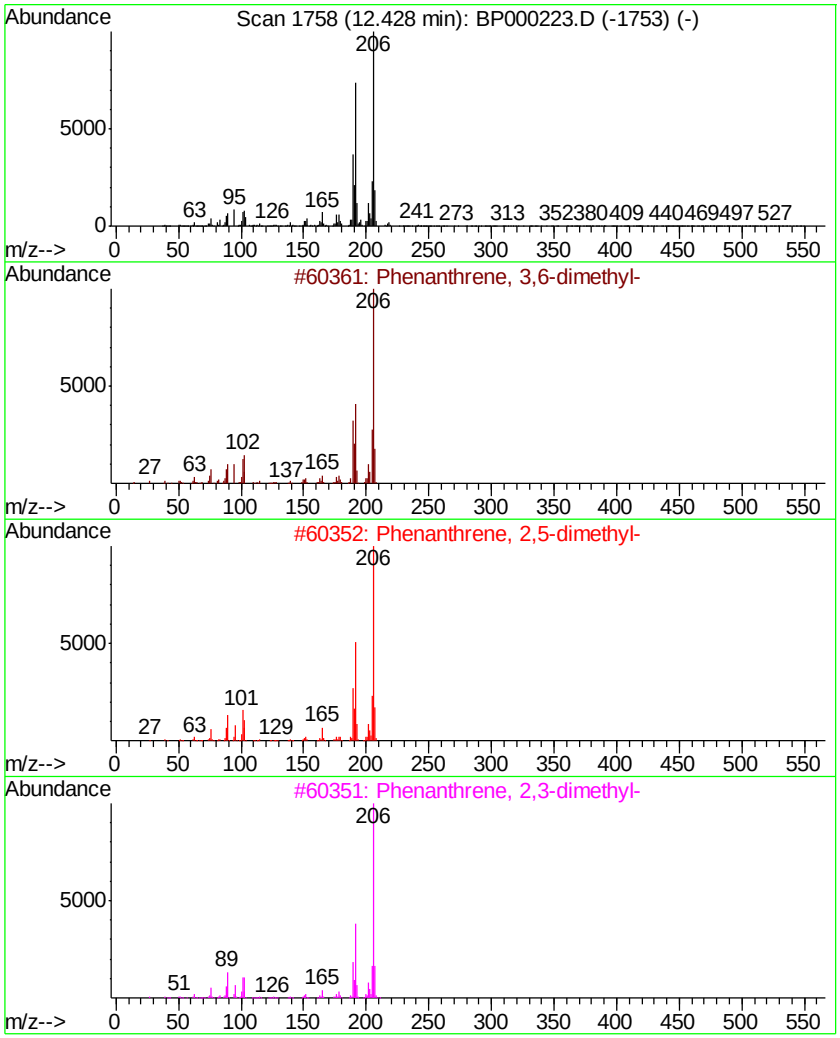
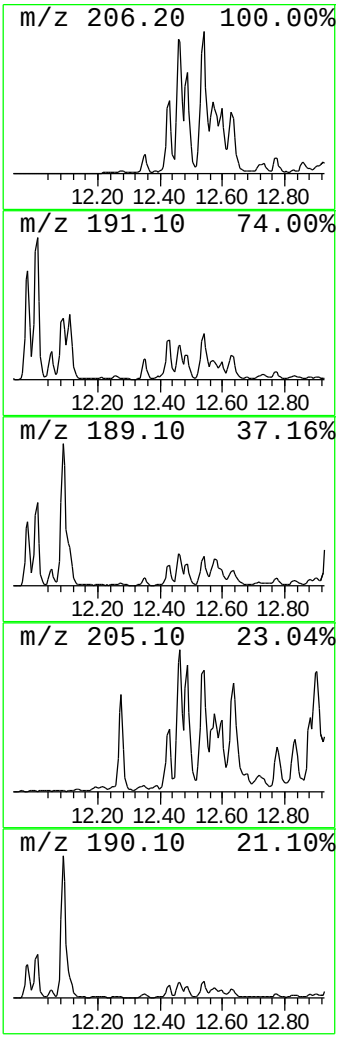
Peak Number 19 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	8.29 ng/ul	1226360	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	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93





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Quant Title : SVOA CALIBRATION

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

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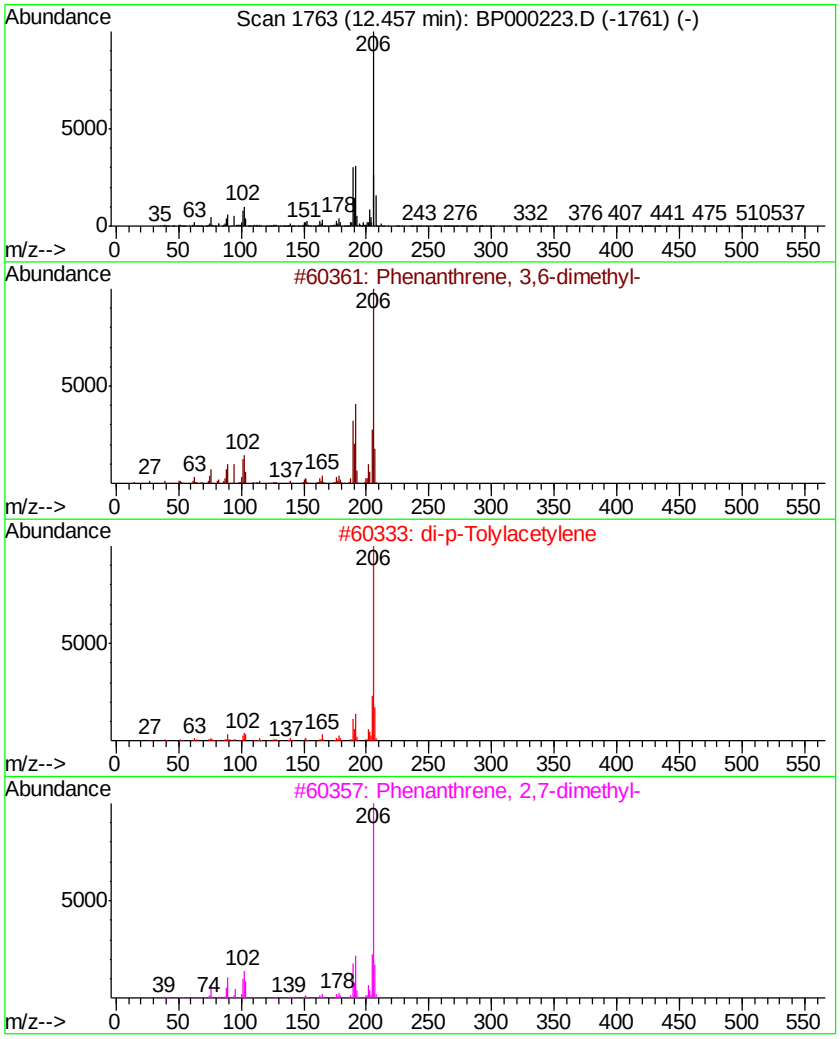
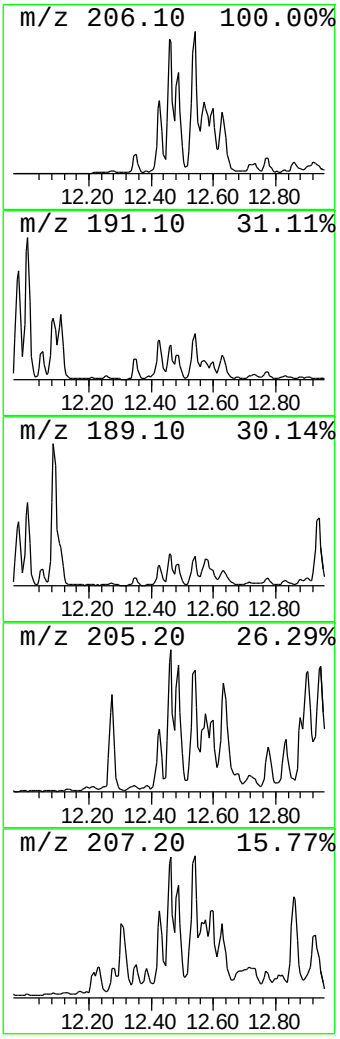
Peak Number 20 di-p-Tolylacetylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	9.69 ng/ul	1434570	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	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	94
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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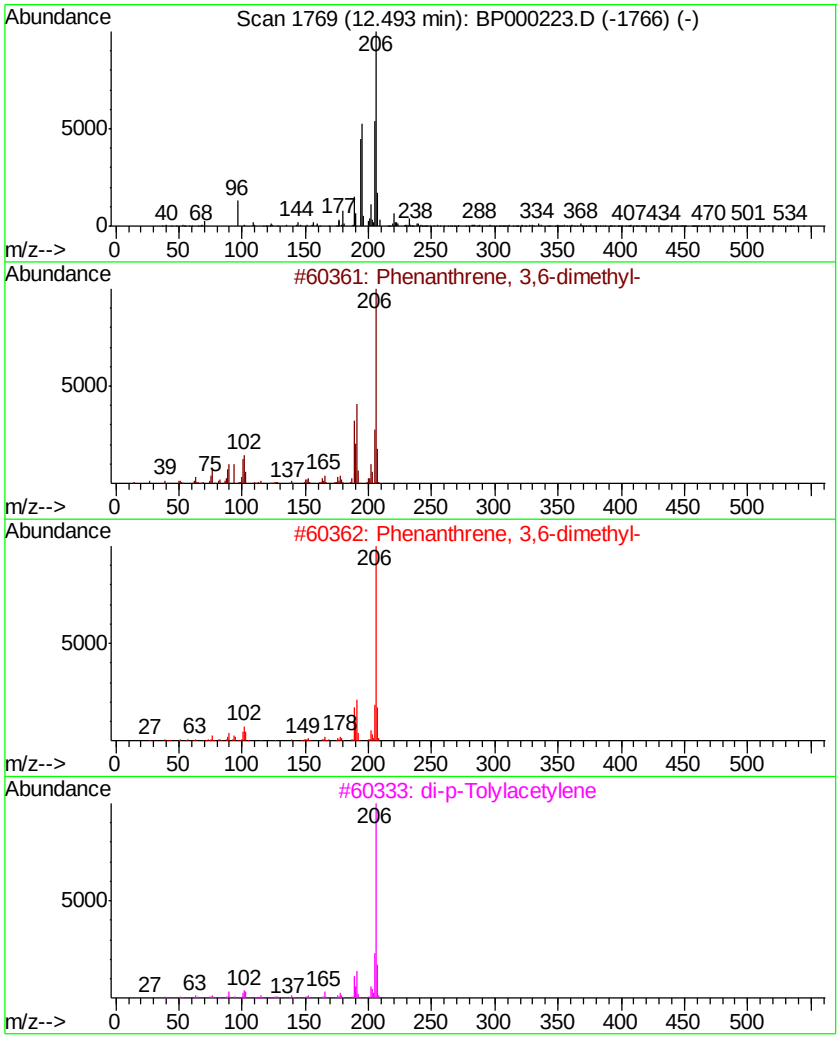
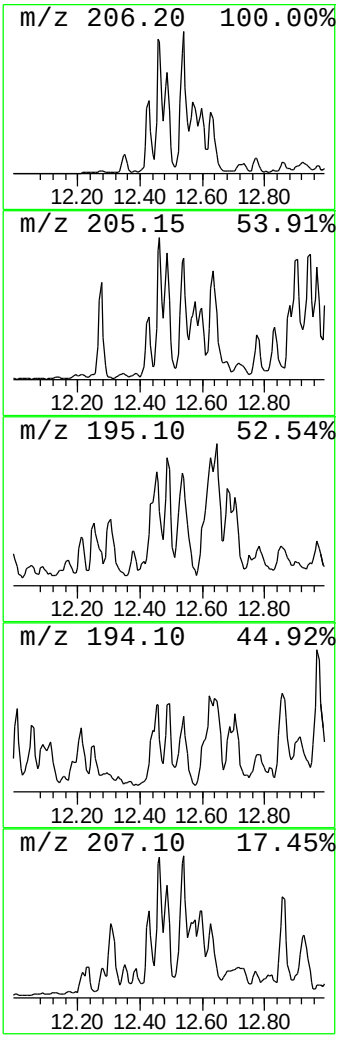
Peak Number 21 Phenanthrene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	7.76 ng/ul	1147800	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	83





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Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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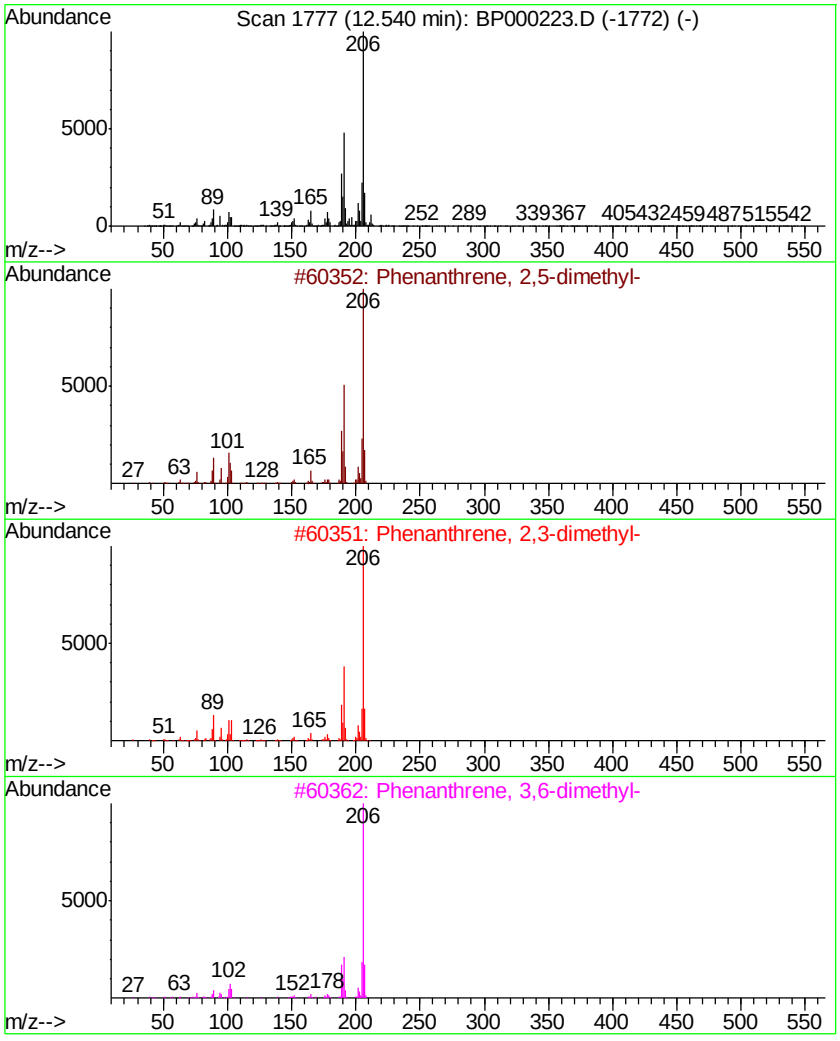
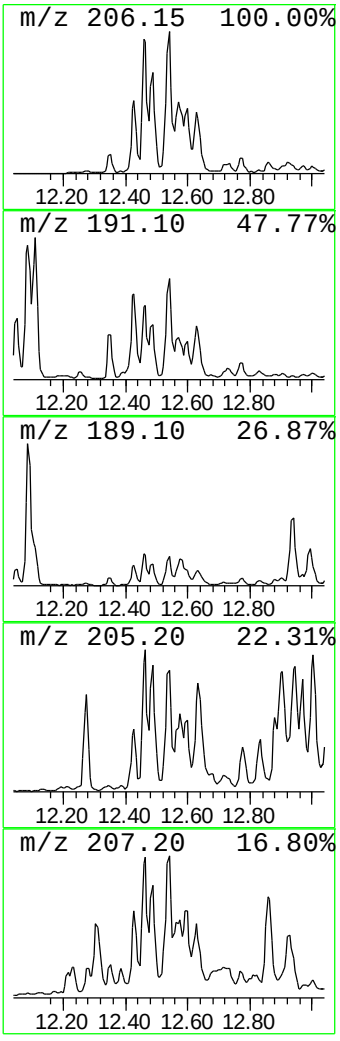
Peak Number 22 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	15.58 ng/ul	2305460	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Quant Title : SVOA CALIBRATION

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

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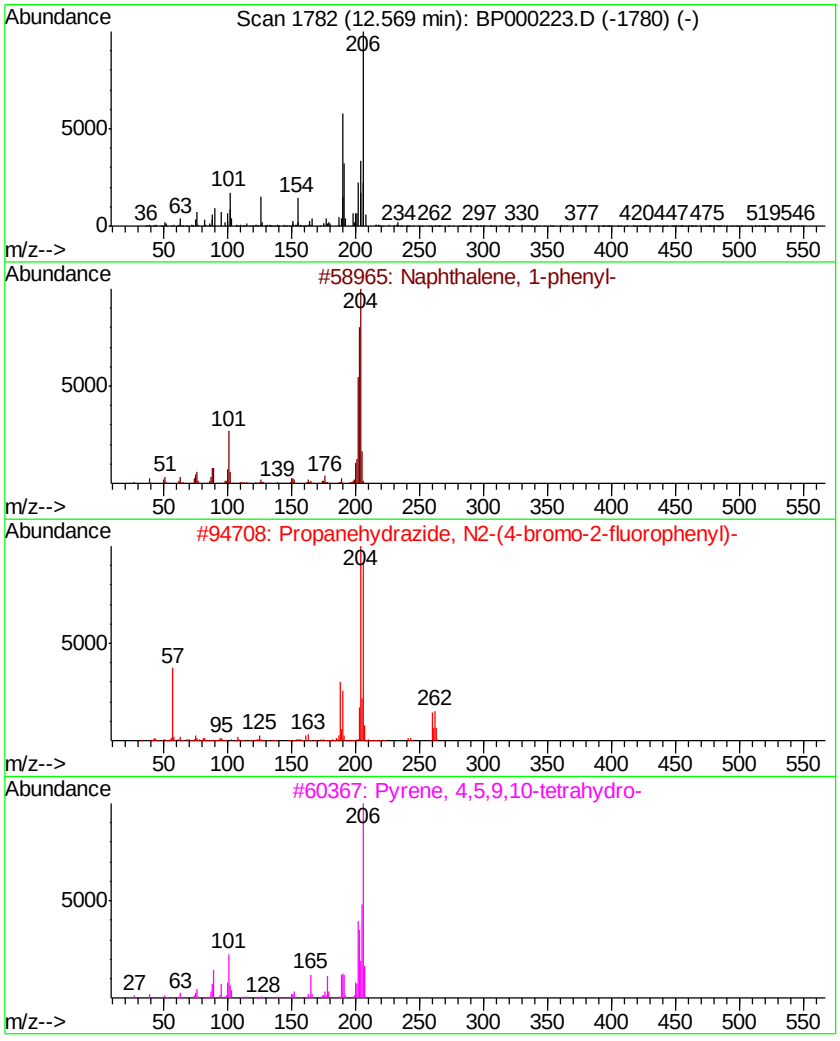
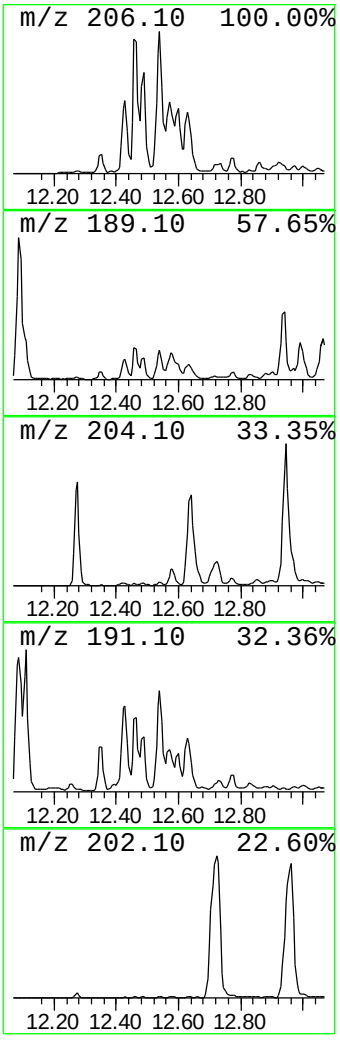
Peak Number 23 unknown-01 Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	3.96 ng/ul	585877	Phenanthrene-d10	11.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	44
2	Propanehydrazide, N2-(4-bromo-2-...	260	C9H10BrFN2O	1000272-78-2	38
3	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	35
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	35





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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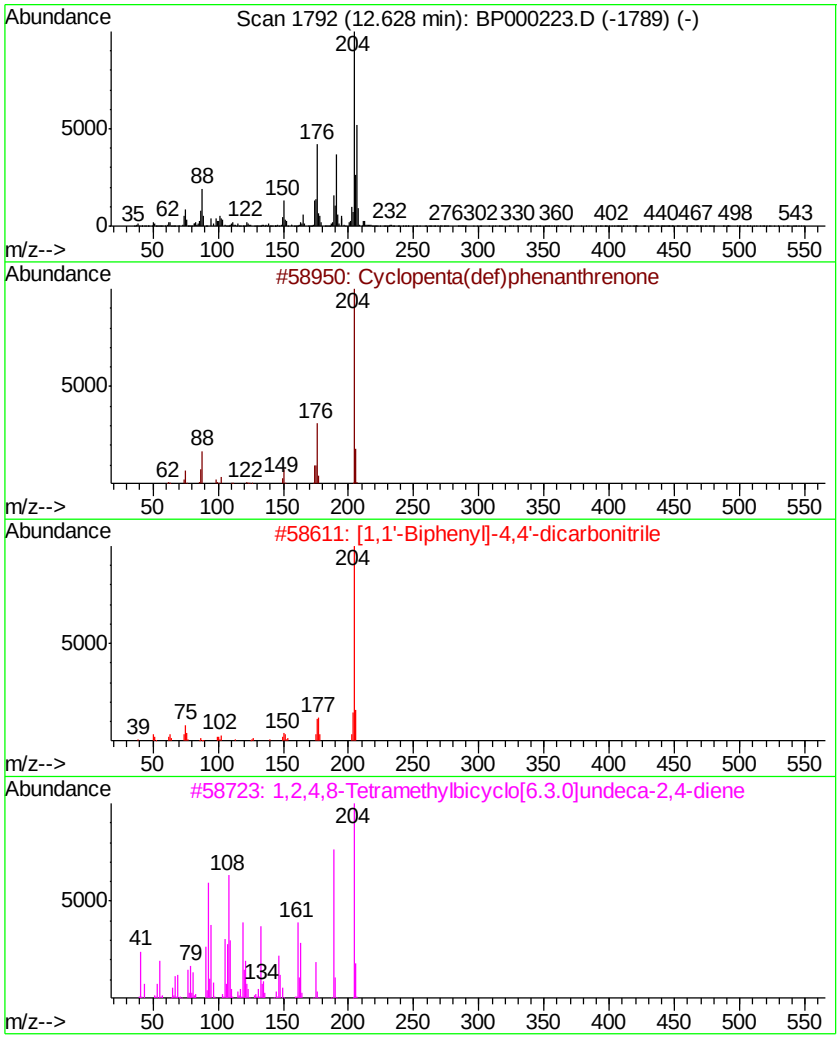
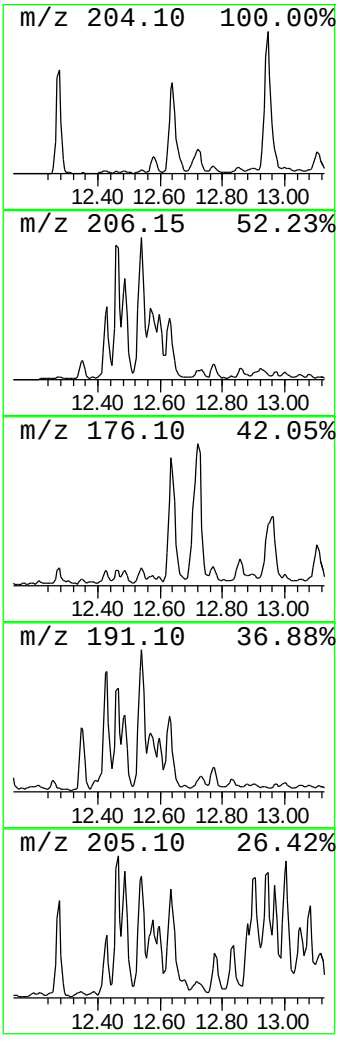
Peak Number 24 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	12.94 ng/ul	1915190	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	43
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	41
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	38
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38





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Misc :
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Instrument : BNA_P
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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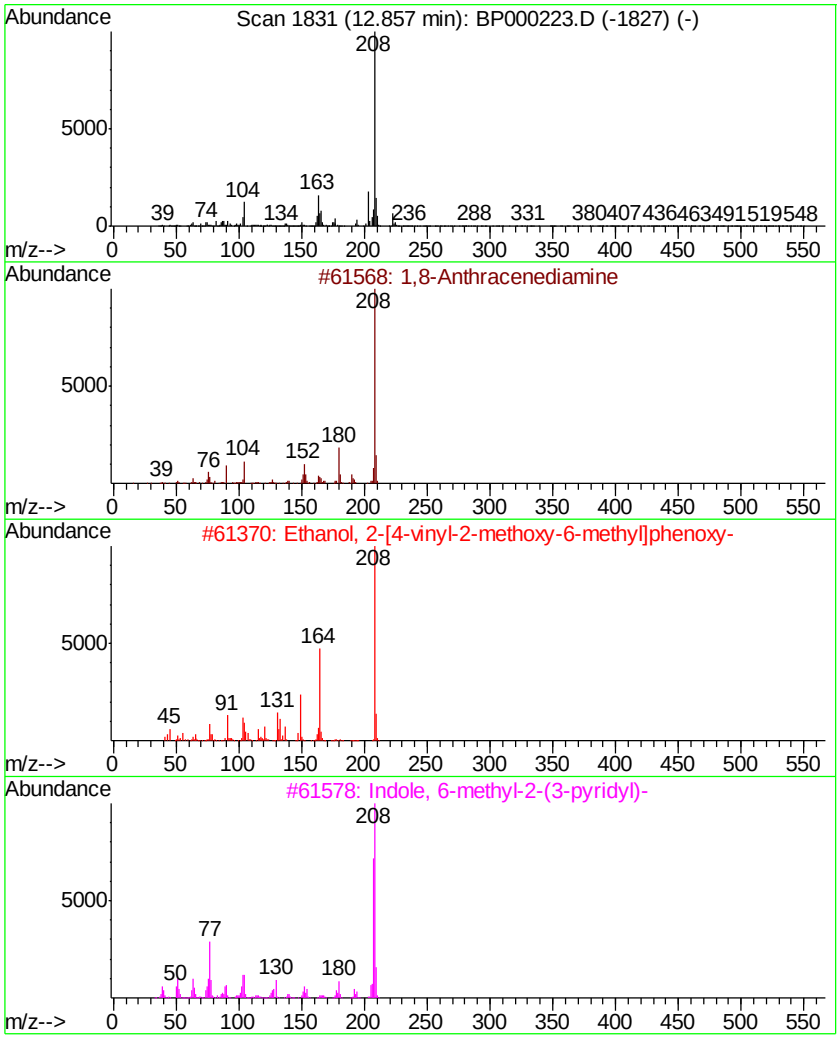
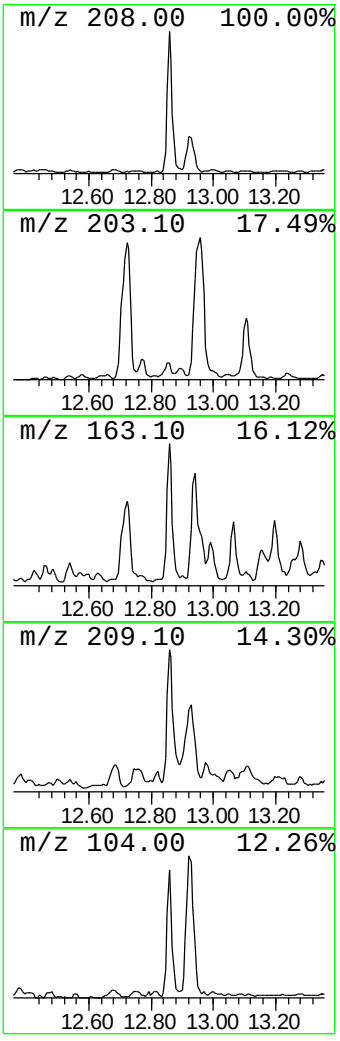
Peak Number 25 1,8-Anthracenediamine Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.86	2.20 ng/ul	2041140	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,8-Anthracenediamine	208	C14H12N2	139312-39-3	64
2	Ethanol, 2-[4-vinyl-2-methoxy-6-...	208	C12H16O3	1000132-26-4	59
3	Indole, 6-methyl-2-(3-pyridyl)-	208	C14H12N2	293762-69-3	53
4	5-Methyl-3-phenyl-1H-indazole	208	C14H12N2	057614-16-1	53
5	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	53





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Quant Title : SVOA CALIBRATION

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

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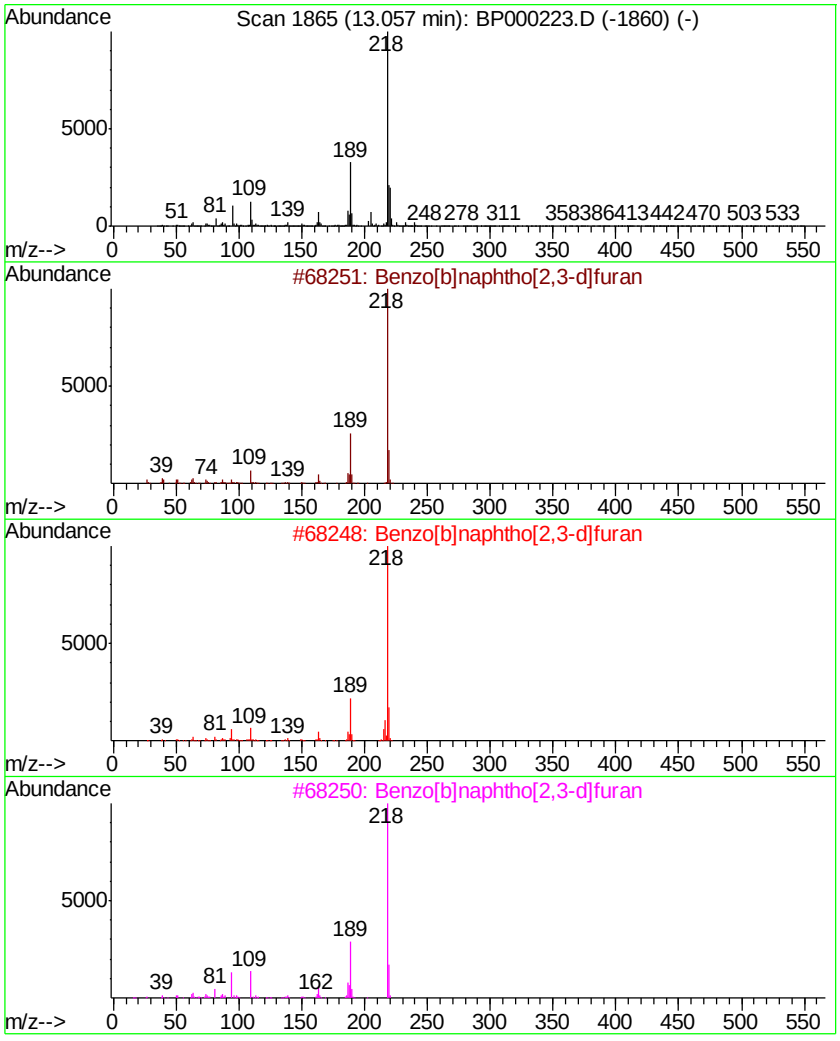
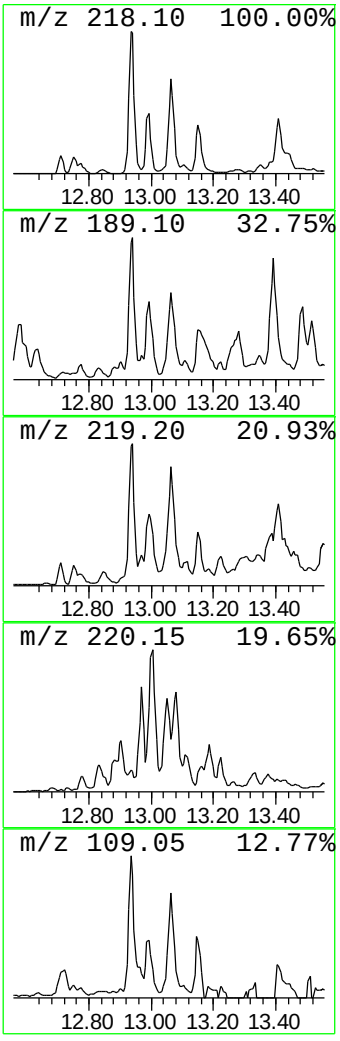
Peak Number 26 Benzo[b]naphtho[2,3-d]furan Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.06	2.75 ng/ul	2554160	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	96
2	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	95
3	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	93
5	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	91





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Quant Title : SVOA CALIBRATION

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

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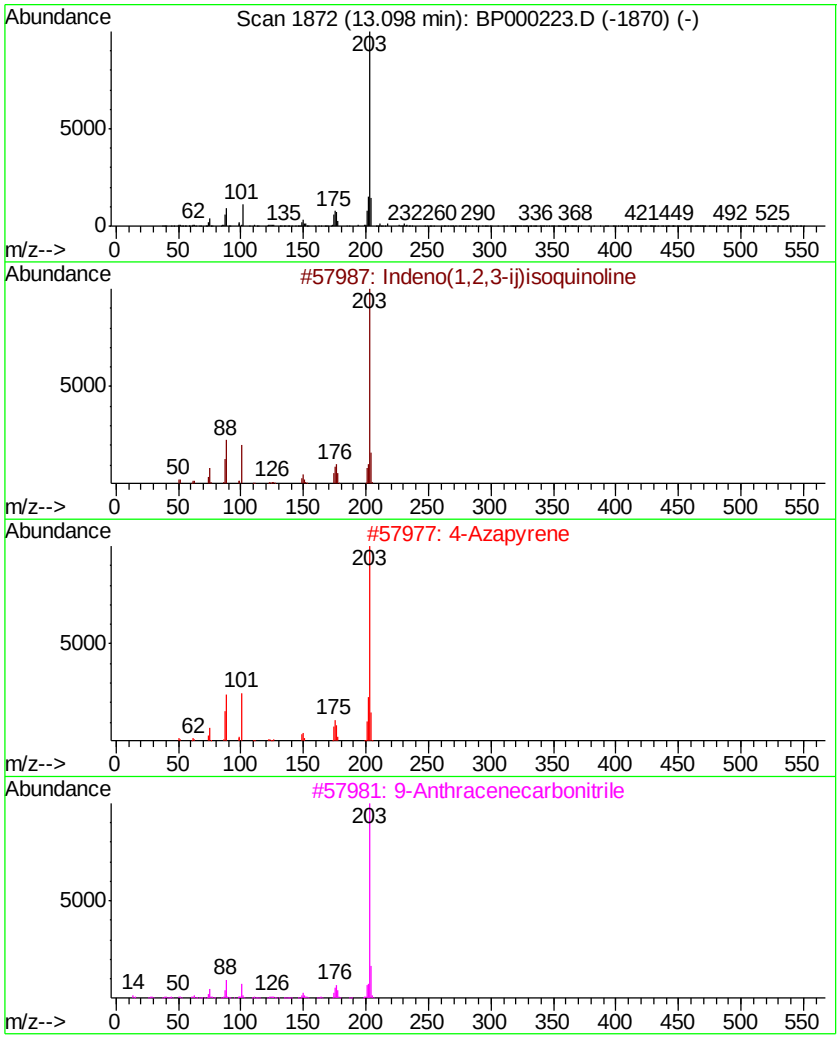
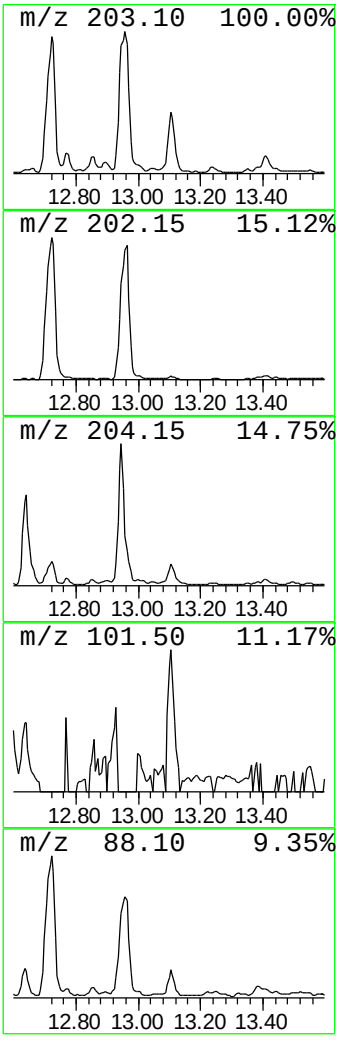
Peak Number 27 Indeno(1,2,3-ij)isoquinoline Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	2.12 ng/ul	1971250	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	96
2	4-Azapyrene	203	C15H9N	000194-03-6	96
3	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	95
4	4-Azapyrene	203	C15H9N	000194-03-6	94
5	9-(Cyanomethylene)fluorene	203	C15H9N	004425-74-5	93





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Quant Title : SVOA CALIBRATION

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

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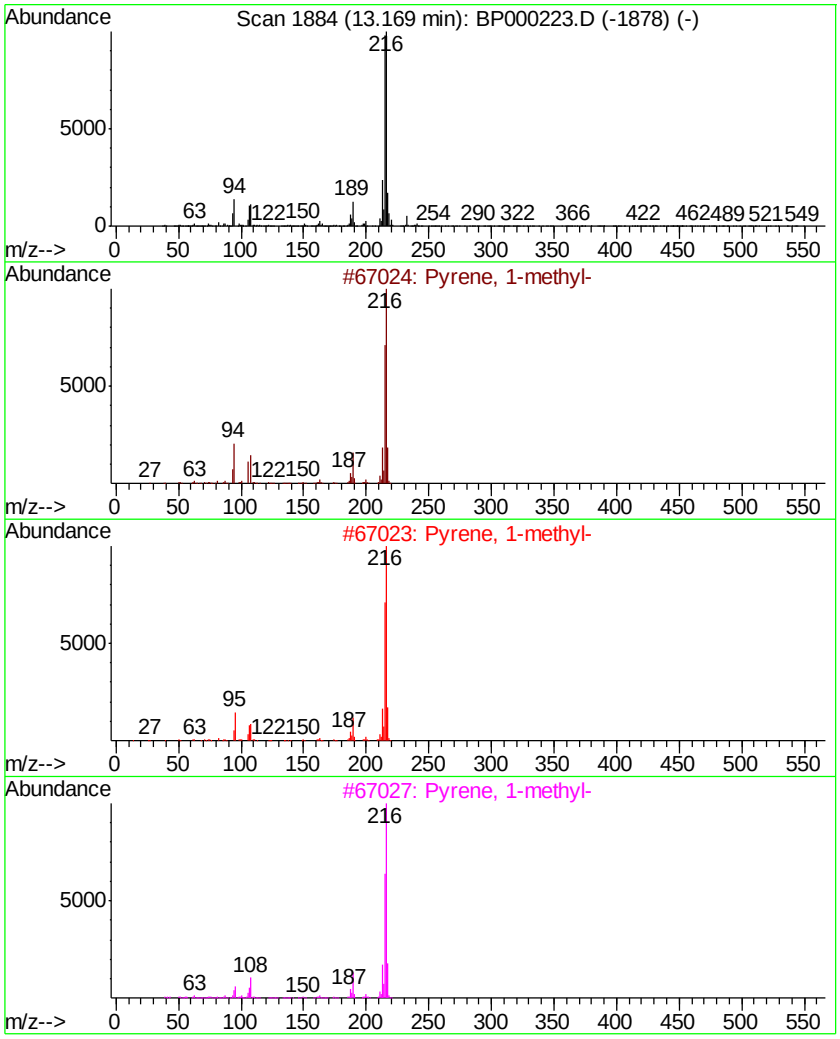
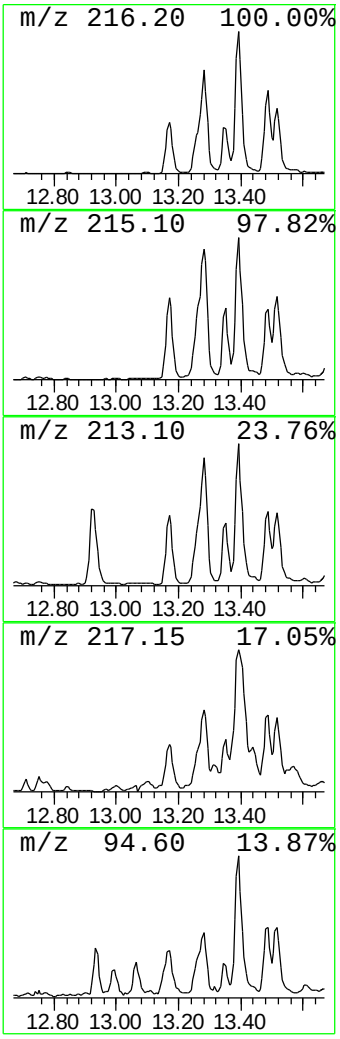
Peak Number 28 Pyrene, 1-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	4.92 ng/ul	4563860	Chrysene-d12	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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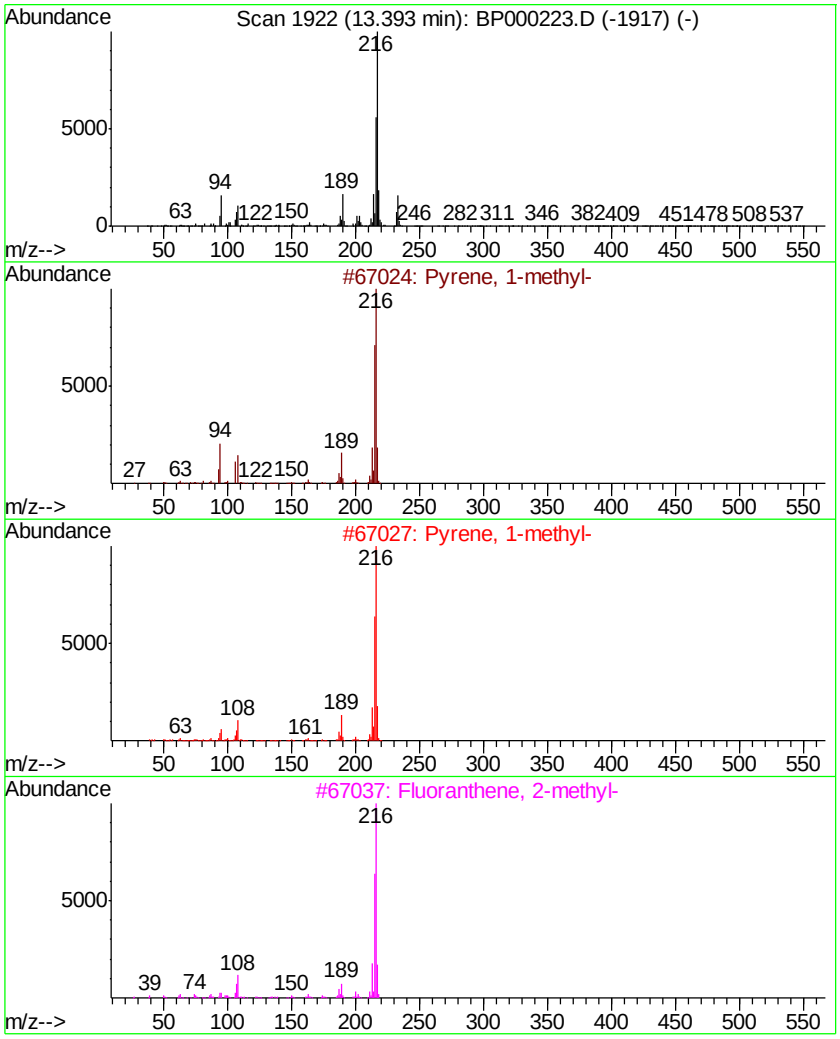
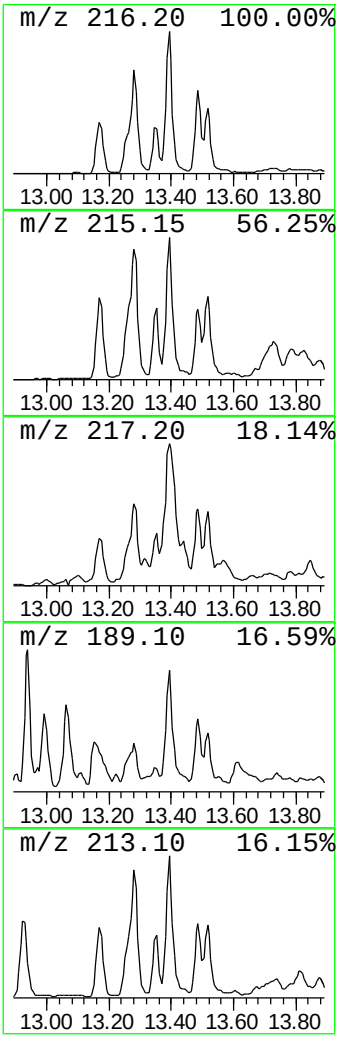
Peak Number 30 Pyrene, 4-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.39	8.14 ng/ul	7552620	Chrysene-d12	14.20

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	95
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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

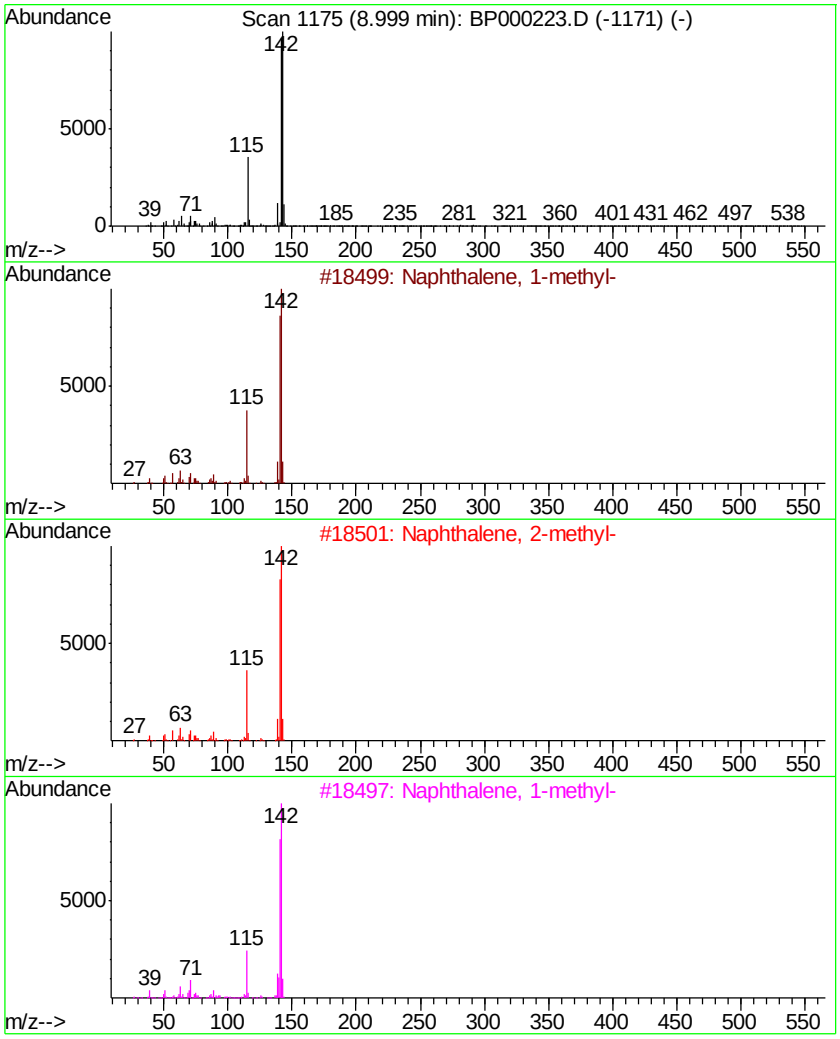
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

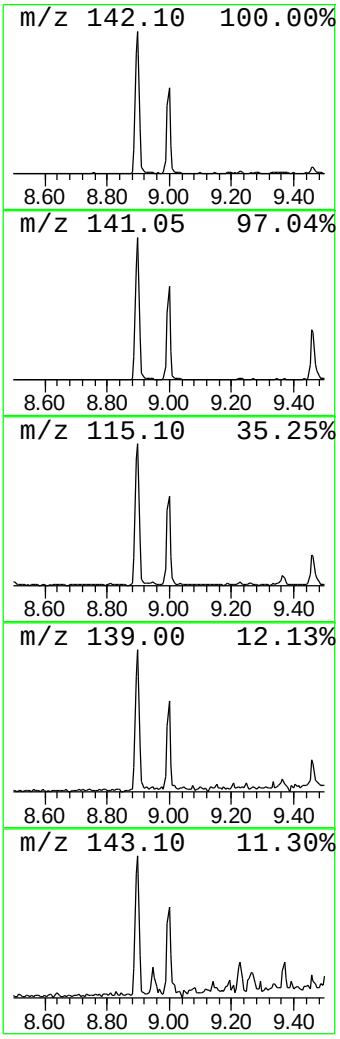
****

Peak Number 40 Naphthalene, 1-methyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.00	1.38 ng/ul	176939	Naphthalene-d8	8.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091219\
Data File : BP000223.D
Acq On : 12 Sep 2019 18:56
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : F2D06

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...	2.17	147.2	ng/ul	14064400	1	6.90	1910780	20.0
6H-Dibenzo[b,d]-p...	10.75	2.5	ng/ul	376051	4	11.46	2959610	20.0
1(2H)-Acenaphthyl...	10.88	2.3	ng/ul	337018	4	11.46	2959610	20.0
9H-Fluoren-9-one	11.26	7.8	ng/ul	1149880	4	11.46	2959610	20.0
Anthracene, 1,2,3...	11.32	4.2	ng/ul	624336	4	11.46	2959610	20.0
Dibenzothiophene	11.35	8.1	ng/ul	1192900	4	11.46	2959610	20.0
Dibenzothiophene,...	11.80	5.6	ng/ul	834167	4	11.46	2959610	20.0
Dibenzothiophene,...	11.88	5.6	ng/ul	827814	4	11.46	2959610	20.0
Phenanthrene, 2-m...	11.98	19.8	ng/ul	2925870	4	11.46	2959610	20.0
Phenanthrene, 1-m...	12.00	29.0	ng/ul	4286030	4	11.46	2959610	20.0
1H-Indene, 2-phenyl-	12.05	4.8	ng/ul	705210	4	11.46	2959610	20.0
4H-Cyclopenta[def...	12.09	20.6	ng/ul	3048280	4	11.46	2959610	20.0
Anthracene, 1-met...	12.11	9.7	ng/ul	1440320	4	11.46	2959610	20.0
4-Methylcarbazole	12.18	2.3	ng/ul	334932	4	11.46	2959610	20.0
2,8-Dimethyldiben...	12.21	2.7	ng/ul	401078	4	11.46	2959610	20.0
2-Phenylnaphthalene	12.27	10.9	ng/ul	1615100	4	11.46	2959610	20.0
Naphtho[2,3-b]thi...	12.38	2.3	ng/ul	341828	4	11.46	2959610	20.0
Phenanthrene, 3,6...	12.43	8.3	ng/ul	1226360	4	11.46	2959610	20.0
di-p-Tolylacetylene	12.46	9.7	ng/ul	1434570	4	11.46	2959610	20.0
Phenanthrene, 1,7...	12.49	7.8	ng/ul	1147800	4	11.46	2959610	20.0
Phenanthrene, 2,5...	12.54	15.6	ng/ul	2305460	4	11.46	2959610	20.0
unknown-01	12.57	4.0	ng/ul	585877	4	11.46	2959610	20.0
Cyclopenta(def)ph...	12.63	12.9	ng/ul	1915190	4	11.46	2959610	20.0
1,8-Anthracenedia...	12.86	2.2	ng/ul	2041140	5	14.20	18559500	20.0
Benzo[b]naphtho[2...	13.06	2.8	ng/ul	2554160	5	14.20	18559500	20.0
Indeno(1,2,3-ij)i...	13.10	2.1	ng/ul	1971250	5	14.20	18559500	20.0
Pyrene, 1-methyl-	13.17	4.9	ng/ul	4563860	5	14.20	18559500	20.0
Pyrene, 4-methyl-	13.39	8.1	ng/ul	7552620	5	14.20	18559500	20.0
Naphthalene, 1-me...	9.00	1.4	ng/ul	176939	2	8.18	2566270	20.0