LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.398	559	563	576	rVB	3116941	3162919	41.19%	2.782%
2	6.416	731	736	739	rBV	3110993	3209349	41.80%	2.823%
3	6.775	793	797	805	rBV	1198317	989077	12.88%	0.870%
4	7.340	888	893	896	rBV	2186301	2278118	29.67%	2.004%
5	8.057	1009	1015	1017	rBV	1361835	1271198	16.56%	1.118%
6	8.081	1017	1019	1022	rVB	410345	322661	4.20%	0.284%
7	9.139	1193	1199	1202	rBV	3630633	3819776	49.75%	3.360%
8	9.469	1251	1255	1258	rVV	279710	289860	3.78%	0.255%
9	9.528	1262	1265	1269	rVV	375948	367841	4.79%	0.324%
10	9.675	1284	1290	1293	rVB	226123	214948	2.80%	0.189%
11	9.816	1307	1314	1316	rBV	1442164	1430970	18.64%	1.259%
12	9.845	1316	1319	1322	rVB	661516	544831	7.10%	0.479%
13	10.016	1344	1348	1351	rVV	427510	398577	5.19%	0.351%
14	10.357	1402	1406	1412	rVV2	629628	644408	8.39%	0.567%
15	10.516	1430	1433	1437	rVB	287416	302256	3.94%	0.266%
16	10.604	1442	1448	1451	rVV	2136533	2242472	29.21%	1.972%
17	10.722	1463	1468	1475	rVB4	236485	366691	4.78%	0.323%
18	10.904	1493	1499	1502	rBV3	264732	406351	5.29%	0.357%
19	10.933	1502	1504	1507	rVV2	217845	212745	2.77%	0.187%
20	11.033	1516	1521	1523	rVV3	200680	288361	3.76%	0.254%
21	11.057	1523	1525	1530	rVV2	259363	295634	3.85%	0.260%
22	11.104	1530	1533	1536	rVV2	280268	270522	3.52%	0.238%
23	11.145	1536	1540	1546	rVV3	243965	493552	6.43%	0.434%
24	11.192	1546	1548	1554	rVB	446956	425057	5.54%	0.374%
25	11.298	1560	1566	1568	rBV	1168604	1423786	18.54%	1.252%
26	11.328	1568	1571	1574	rVV	4341997	4534316	59.06%	3.988%
27	11.375	1574	1579	1582	rVV	1897274	1707426	22.24%	1.502%
28	11.404	1582	1584	1587	rVV2	191859	197207	2.57%	0.173%
29	11.528	1599	1605	1607	rBV2	406111	427170	5.56%	0.376%
30	11.592	1613	1616	1618	rVV	352087	286639	3.73%	0.252%
31	11.627	1619	1622	1627	rVB3	303641	300372	3.91%	0.264%
32	11.798	1646	1651	1654	rBV	1090695	1169291	15.23%	1.028%
33	11.827	1654	1656	1660	rVB	1554046	1284838	16.73%	1.130%
34	11.875	1660	1664	1667	rBV	755970	716739	9.33%	0.630%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.910	1667	1670	1673	rVV	1666798	2048507	26.68%	1.802%
36	11.933	1673	1674	1678	rVB	985639	628119	8.18%	0.552%
37	12.092	1693	1701	1704	rBV	822975	891272	11.61%	0.784%
38	12.122	1704	1706	1710	rVB	381893	361199	4.70%	0.318%
39	12.245	1721	1727	1730	rBV2	371779	480915	6.26%	0.423%
40	12.275	1730	1732	1734	rVV	328929	250611	3.26%	0.220%
41	12.298	1734	1736	1739	rVB	298232	239578	3.12%	0.211%
42	12.351	1741	1745	1747	rBV	840182	893247	11.63%	0.786%
43	12.386	1747	1751	1753	rVV	590130	741204	9.65%	0.652%
44	12.439	1757	1760	1765	rBV2	596185	717906	9.35%	0.631%
45	12.527	1768	1775	1778	rVV	5460773	6896157	89.82%	6.065%
46	12.557	1778	1780	1782	rVV	169073	181528	2.36%	0.160%
47	12.574	1782	1783	1787	rVV2	241612	204071	2.66%	0.179%
48	12.663	1791	1798	1802	rBV3	402887	646356	8.42%	0.568%
49	12.757	1807	1814	1817	rBV2	5092695	7678121	100.00%	6.753%
50	12.792	1817	1820	1825	rVB2	450101	563514	7.34%	0.496%
51	12.857	1828	1831	1833	rBV	478044	530967	6.92%	0.467%
52	12.886	1833	1836	1842	rVB2	3348131	3473327	45.24%	3.055%
53	12.963	1843	1849	1852	rBV2	735968	1206250	15.71%	1.061%
54	13.045	1860	1863	1865	rBV4	536340	693437	9.03%	0.610%
55	13.069	1865	1867	1870	rVB	1292150	1145614	14.92%	1.008%
56	13.116	1870	1875	1876	rBV3	200362	321412	4.19%	0.283%
57	13.139	1876	1879	1881	rVV	744626	679772	8.85%	0.598%
58	13.174	1881	1885	1887	rVV2	997821	1089789	14.19%	0.958%
59	13.198	1887	1889	1892	rVV3	211186	238382	3.10%	0.210%
60	13.263	1897	1900	1903	rBV	545995	512445	6.67%	0.451%
61	13.298	1903	1906	1909	rBV	576538	585318	7.62%	0.515%
62	13.457	1928	1933	1937	rBV4	222131	517031	6.73%	0.455%
63	13.492	1937	1939	1941	rVV2	252617	229274	2.99%	0.202%
64	13.551	1946	1949	1951	rBV2	199974	221801	2.89%	0.195%
65	13.580	1951	1954	1958	rVB	687163	730336	9.51%	0.642%
66	13.686	1968	1972	1975	rBV	838693	975021	12.70%	0.858%
67	13.716	1975	1977	1979	rVV	727271	583695	7.60%	0.513%
68	13.739	1979	1981	1983	rVV	559328	543349	7.08%	0.478%
69	13.786	1986	1989	1996	rVB	1195876	1355354	17.65%	1.192%
70	13.939	2007	2015	2018	rBV2	3774625	5975551	77.83%	5.256%
71	13.974	2018	2021	2027	rVB	3493013	3719501	48.44%	3.271%

LSC Area Percent Report

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Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.045	2031	2033	2036	rBV	606315	496770	6.47%	0.437%
73	14.104	2038	2043	2045	rBV3	203234	341269	4.44%	0.300%
74	14.169	2050	2054	2056	rVV2	332811	488055	6.36%	0.429%
75	14.198	2056	2059	2061	rVB2	201671	180800	2.35%	0.159%
76	14.257	2066	2069	2071	rBV2	207302	213050	2.77%	0.187%
77	14.286	2071	2074	2076	rVV2	353086	385627	5.02%	0.339%
78	14.327	2076	2081	2084	rVV	1038567	1233732	16.07%	1.085%
79	14.357	2084	2086	2090	rVV	558902	535198	6.97%	0.471%
80	14.421	2090	2097	2099	rVV4	431631	790477	10.30%	0.695%
81	14.451	2099	2102	2104	rVV	517547	532356	6.93%	0.468%
82	14.468	2104	2105	2109	rVV2	437724	366531	4.77%	0.322%
83	14.521	2109	2114	2119	rVB4	279867	428368	5.58%	0.377%
84	14.633	2130	2133	2135	rBV	282026	276980	3.61%	0.244%
85	14.810	2160	2163	2167	rBV2	281257	369264	4.81%	0.325%
86	14.980	2185	2192	2195	rBV	2735151	5234830	68.18%	4.604%
87	15.074	2205	2208	2212	rVB	698506	731019	9.52%	0.643%
88	15.163	2219	2223	2224	rBV2	175217	229681	2.99%	0.202%
89	15.274	2236	2242	2247	rVB	1636961	2562445	33.37%	2.254%
90	15.339	2247	2253	2257	rVB	2744868	3495353	45.52%	3.074%
91	15.392	2257	2262	2264	rBV	762907	1046986	13.64%	0.921%
92	15.421	2264	2267	2273	rVB2	950995	1271581	16.56%	1.118%
93	15.927	2351	2353	2358	rVB	184823	229164	2.98%	0.202%
94	16.621	2467	2471	2474	rBV2	146264	255070	3.32%	0.224%
95	16.827	2497	2506	2511	rVB	1288498	2668008	34.75%	2.347%
96	16.880	2512	2515	2524	rVB	150042	268558	3.50%	0.236%
97	16.980	2526	2532	2536	rBV	325978	649793	8.46%	0.571%
98	17.033	2537	2541	2546	rVV2	222300	384135	5.00%	0.338%
99	17.257	2570	2579	2590	rVB	946565	2218679	28.90%	1.951%
100	17.474	2610	2616	2630	rVB2	315101	770850	10.04%	0.678%

Sum of corrected areas: 113700518

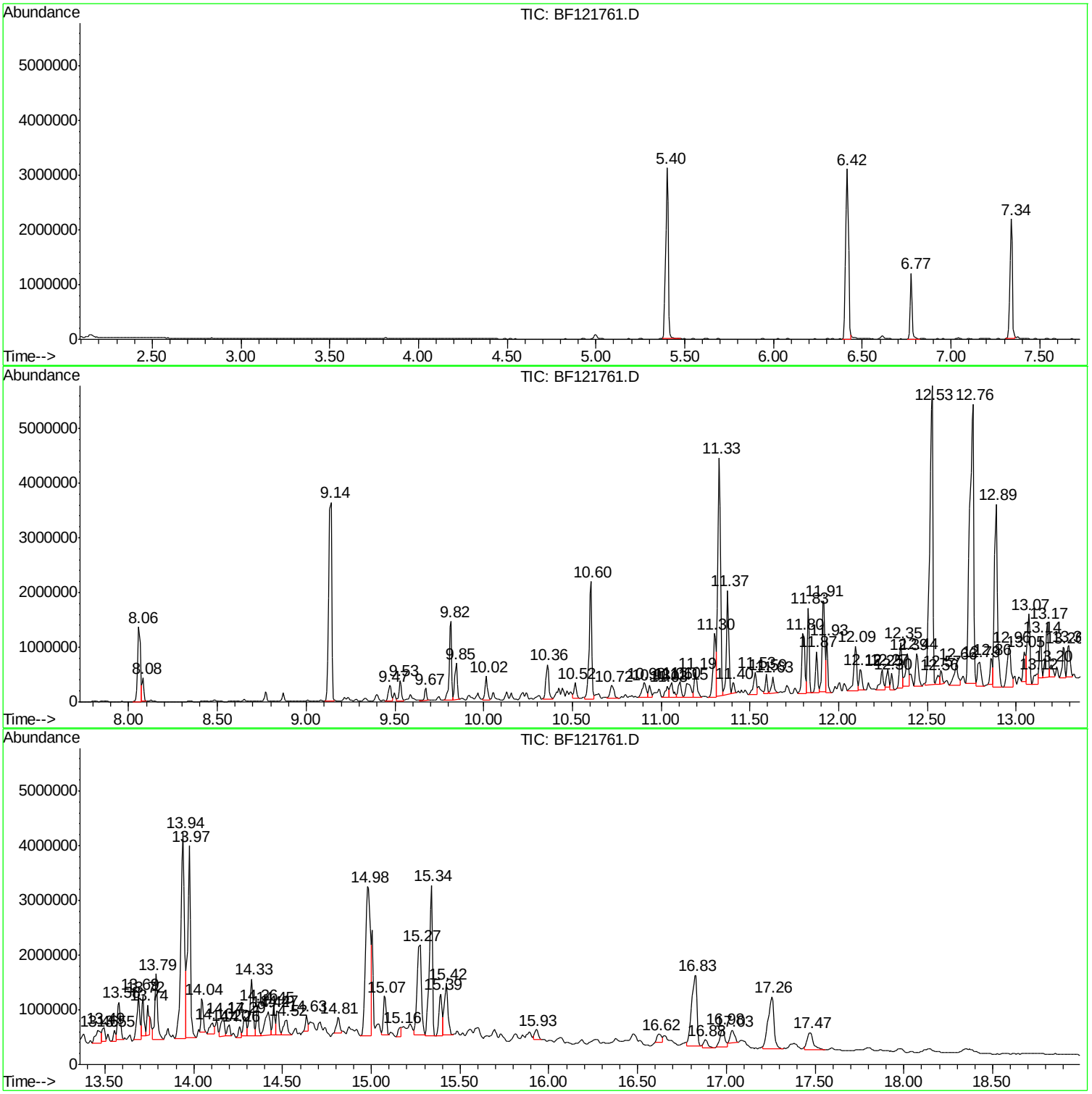
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

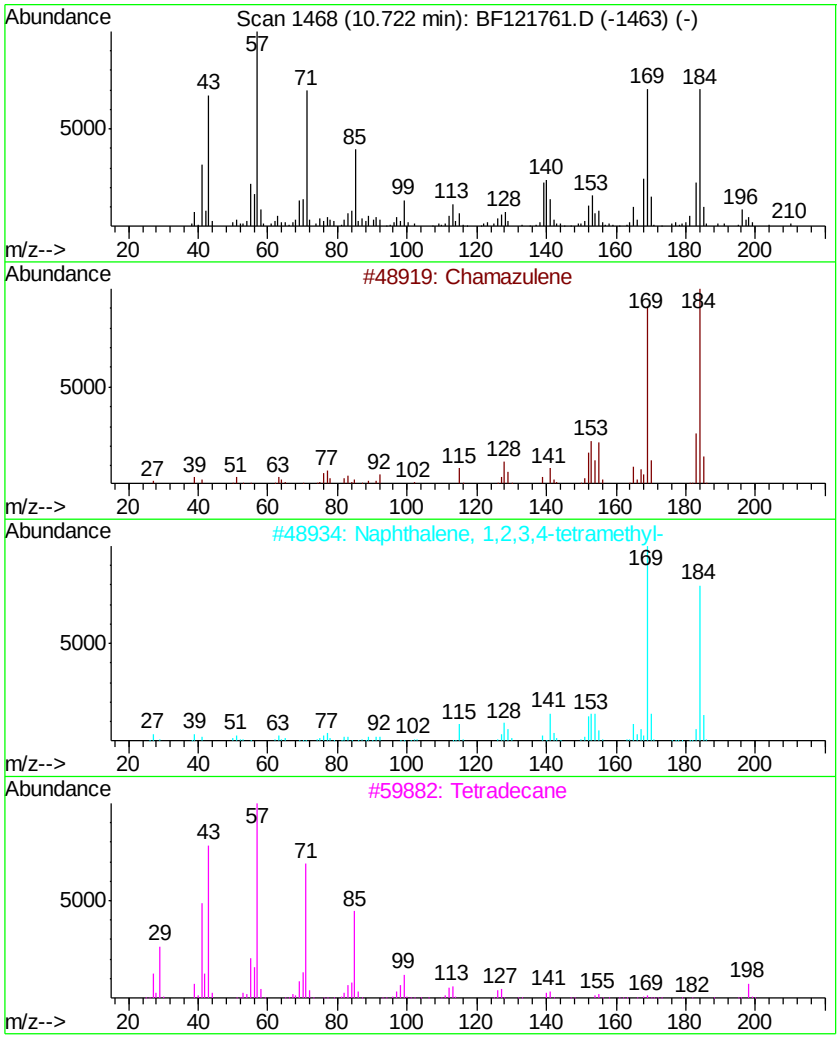
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

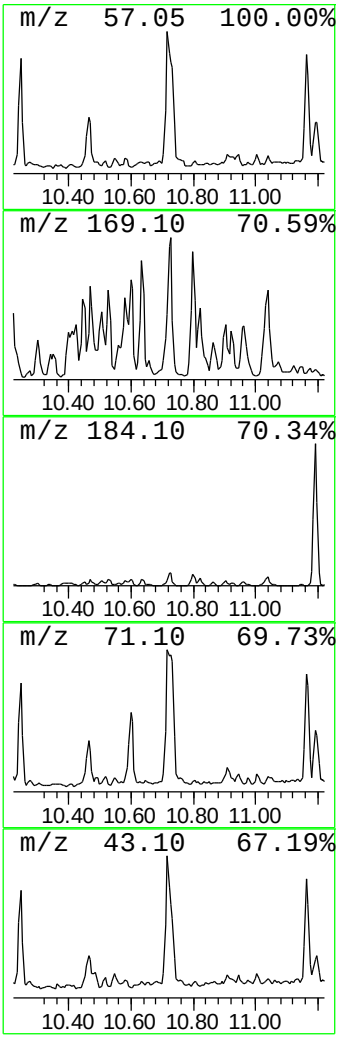
****

Peak Number 1 Chamazulene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.72	5.15 ng	366691	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chamazulene	184	C14H16	000529-05-5	59
2	Naphthalene, 1,2,3,4-tetramethyl-	184	C14H16	003031-15-0	51
3	Tetradecane	198	C14H30	000629-59-4	48
4	Benzene, (4,5,5-trimethyl-1,3-cy...	184	C14H16	033930-85-7	42
5	Cyclopentene, 1,2-dimethyl-4-met...	184	C14H16	1000152-22-4	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

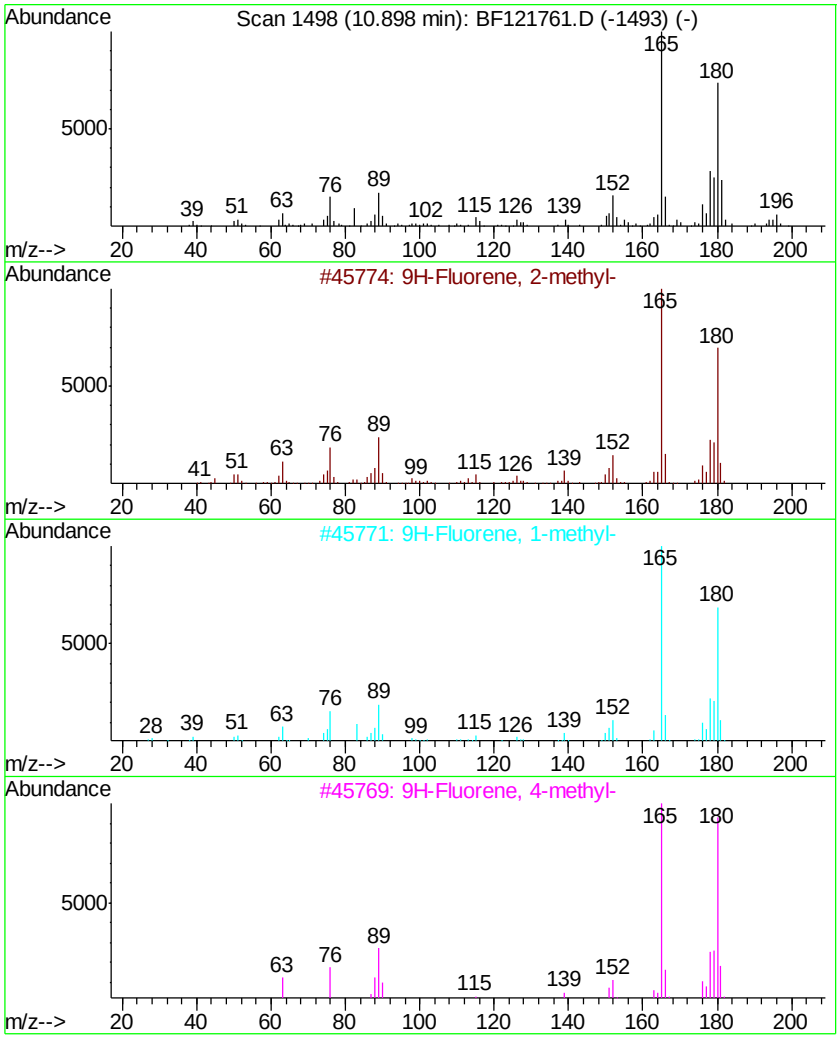
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

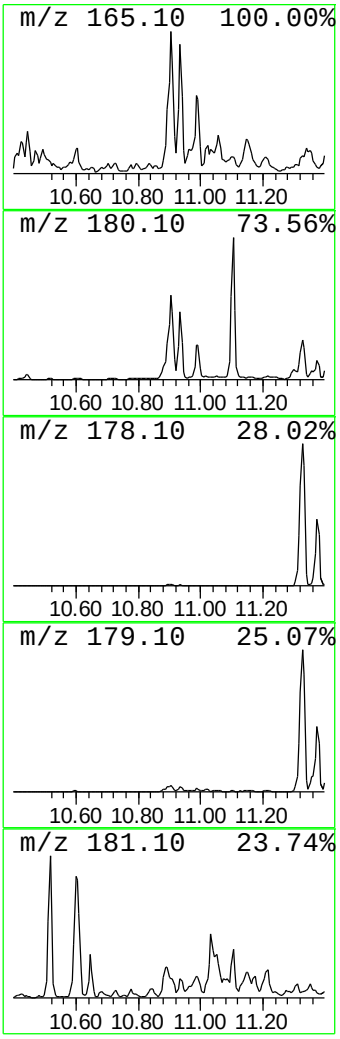
****

Peak Number 2 9H-Fluorene, 2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.90	5.71 ng	406351	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	95
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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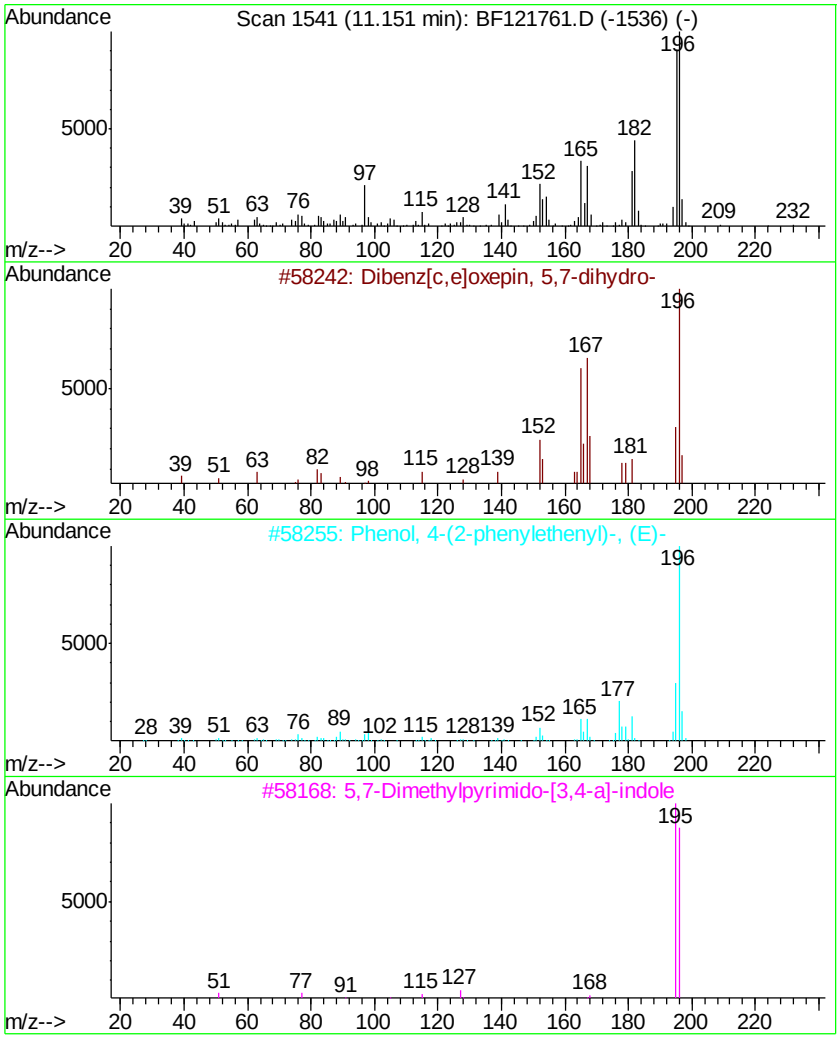
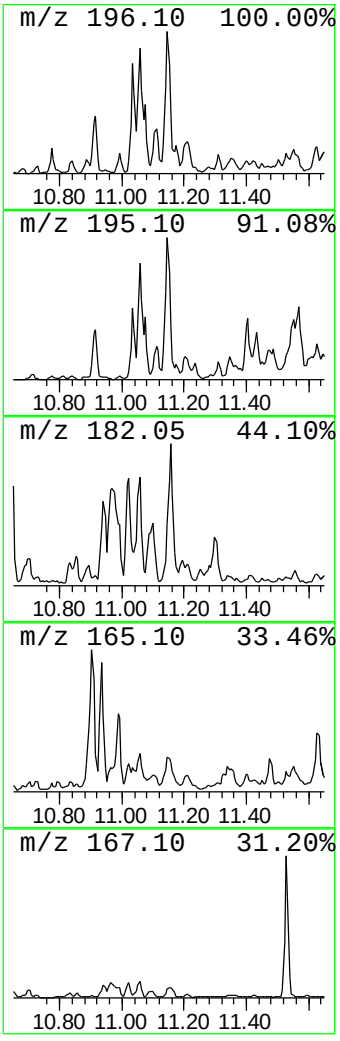
Peak Number 3 Dibenz[c,e]oxepin, 5,7-dihy... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.15	6.93 ng	493552	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	55
2	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	43
3	5,7-Dimethylpyrimido-[3,4-a]-indole	196	C13H12N2	038349-21-2	43
4	Methanone, diphenyl-, hydrazone	196	C13H12N2	005350-57-2	38
5	Benzenamine, 4-[(E)-2-(4-pyridin...	196	C13H12N2	1000351-61-4	37





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

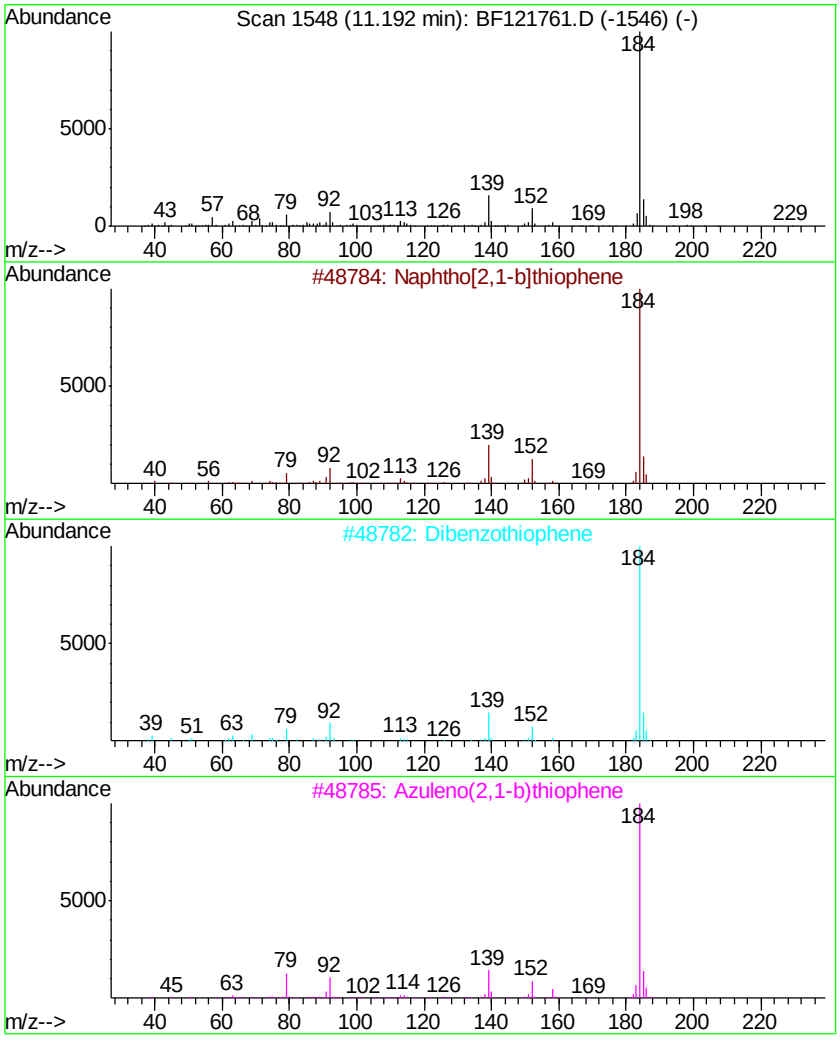
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

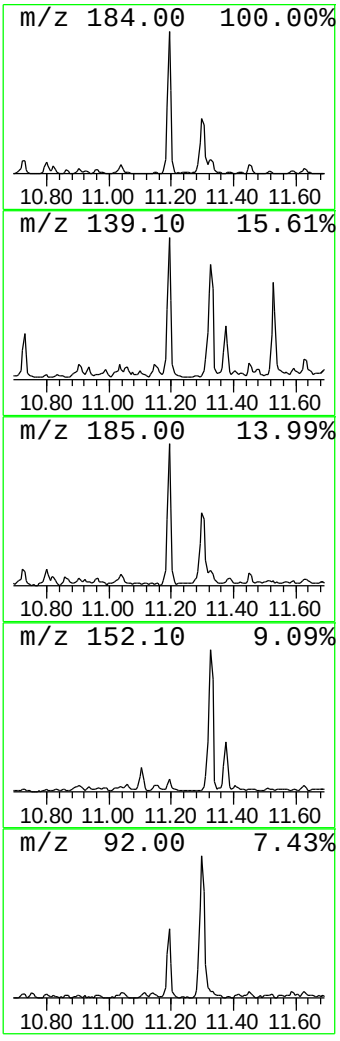
****

Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	5.97 ng	425057	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	80
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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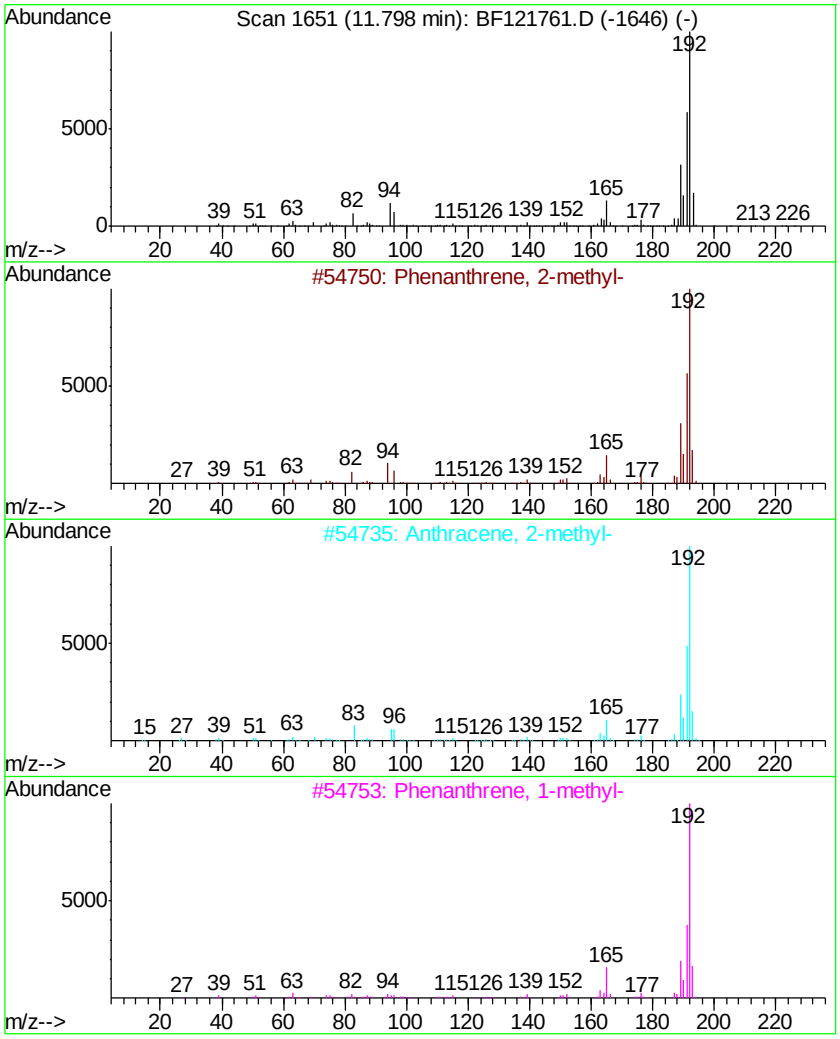
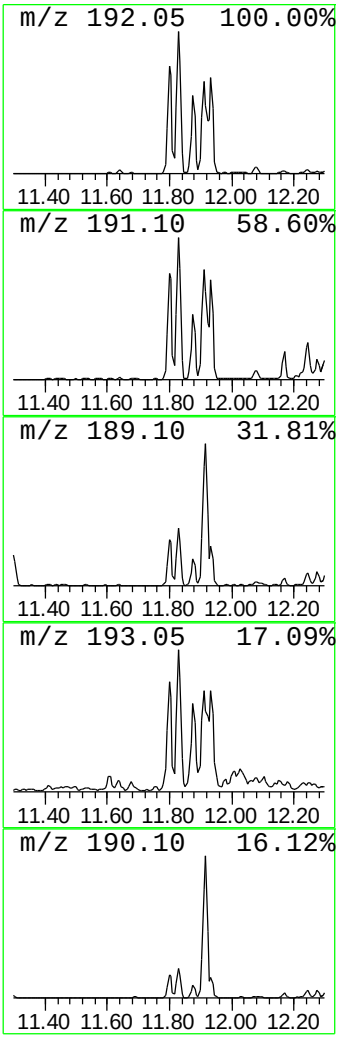
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	16.43 ng	1169290	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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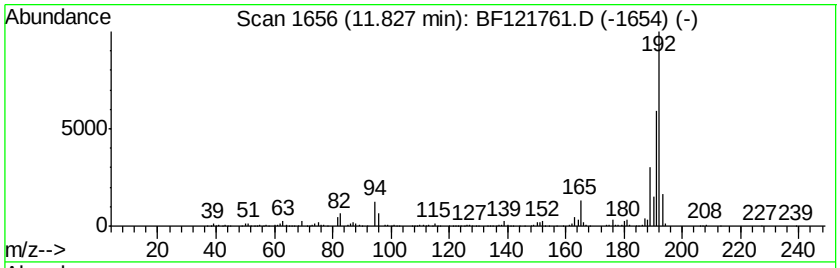
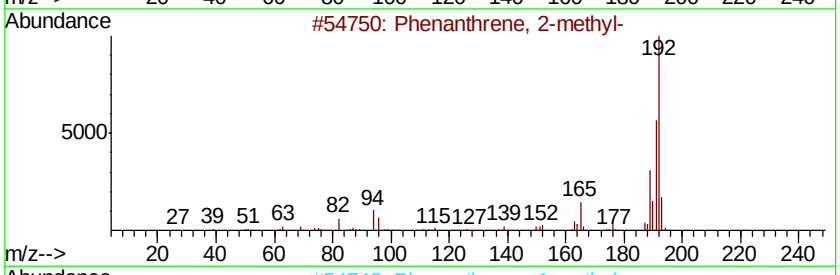
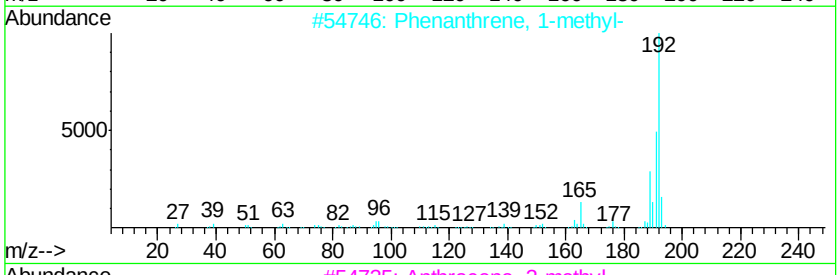
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

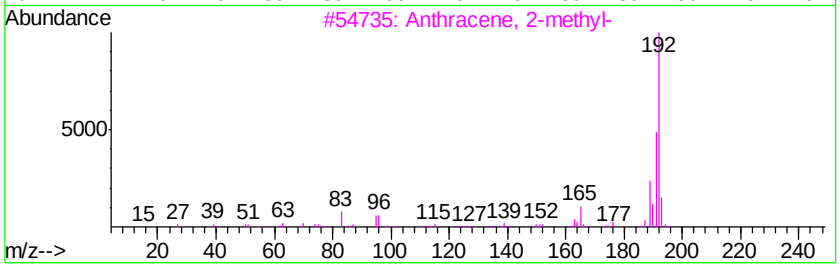
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	18.05 ng	1284840	Phenanthrene-d10	11.30

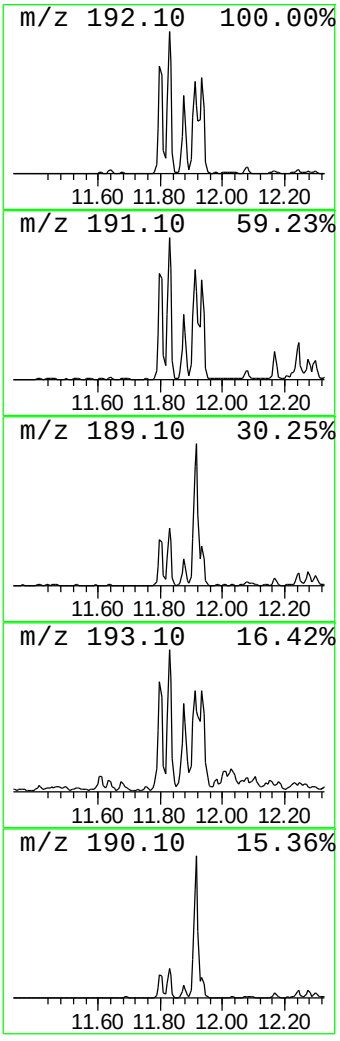
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94











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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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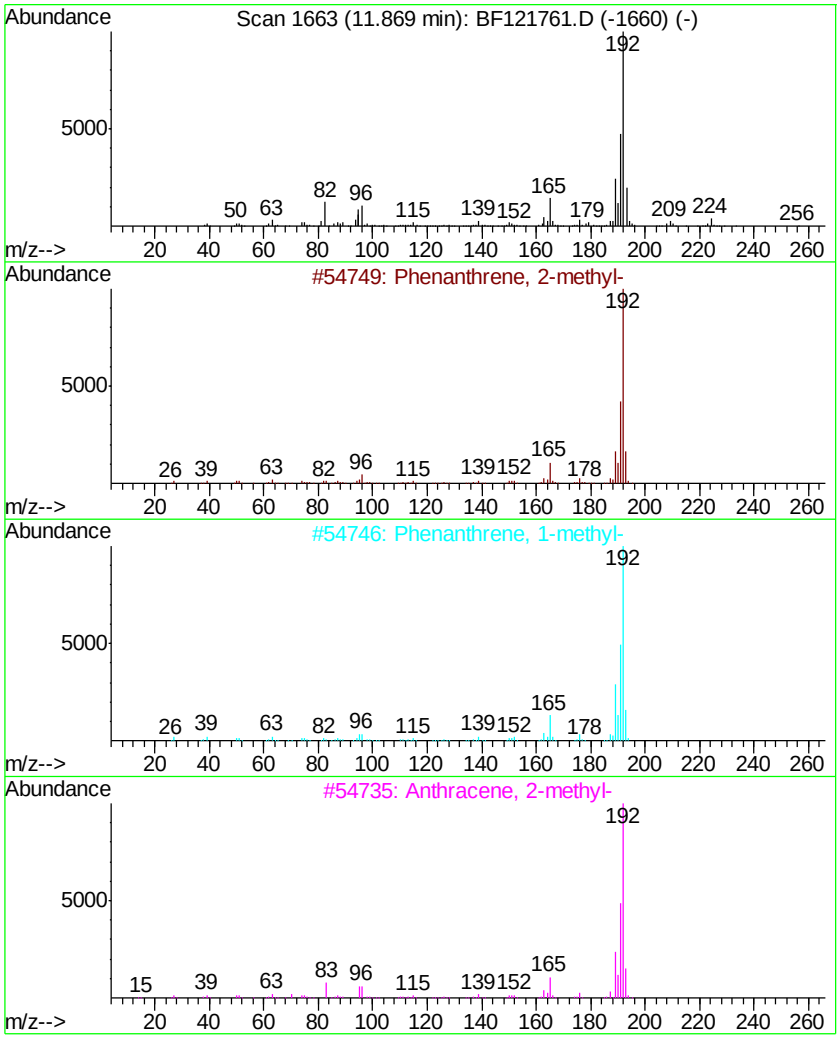
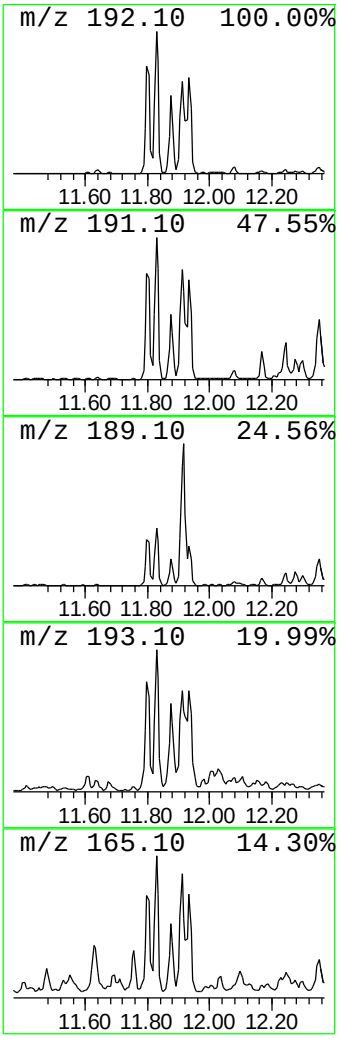
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	10.07 ng	716739	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96





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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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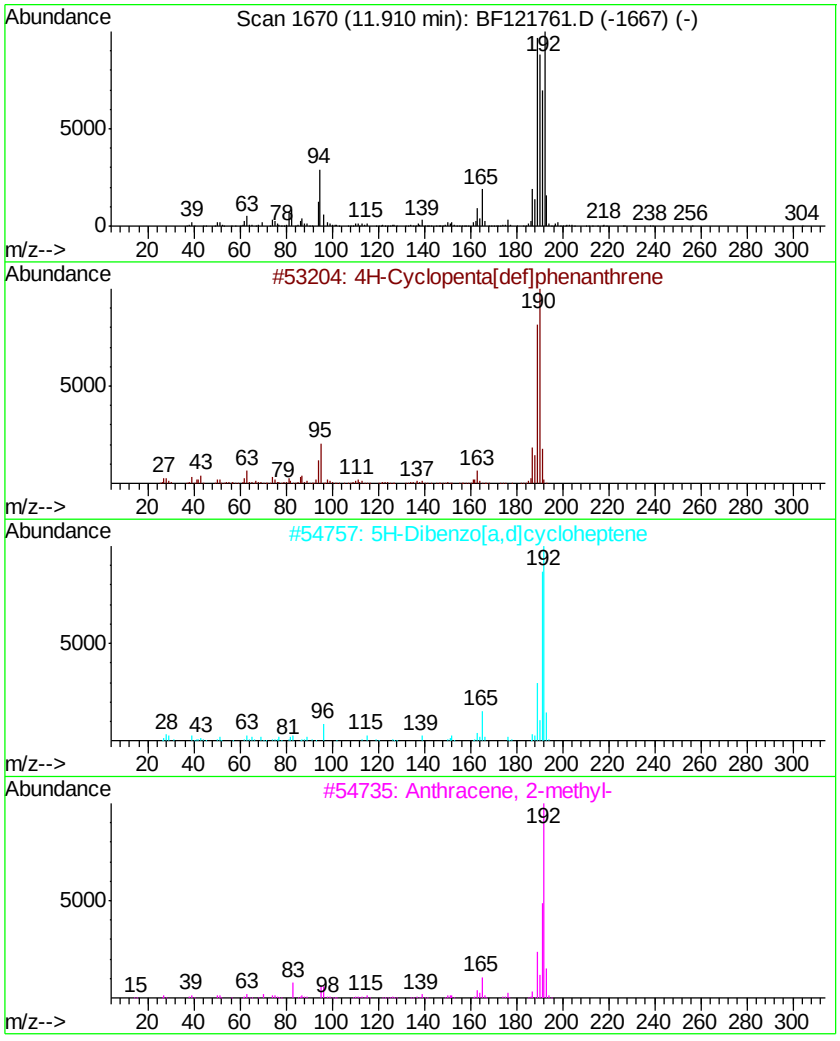
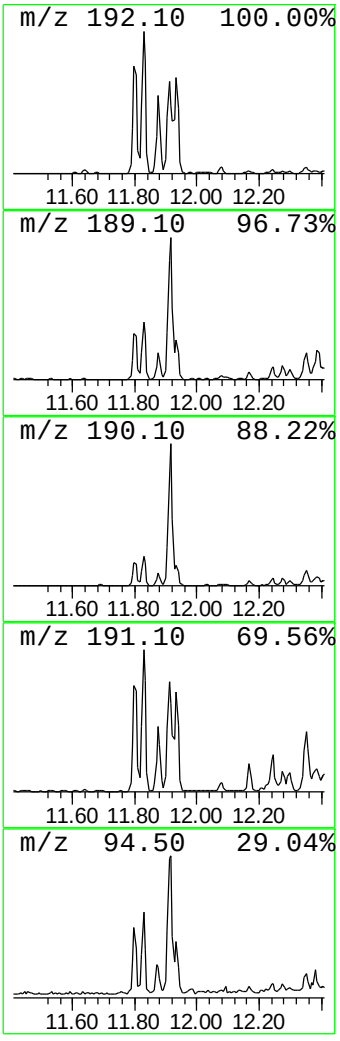
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	28.78 ng	2048510	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	38





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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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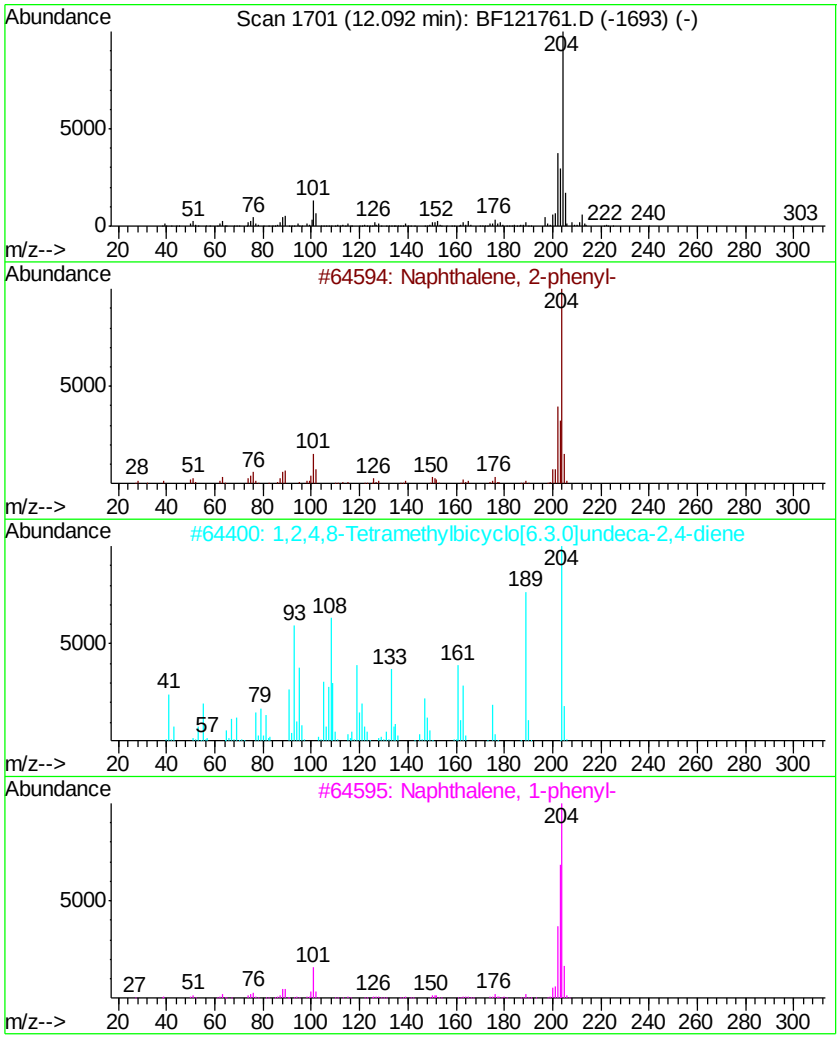
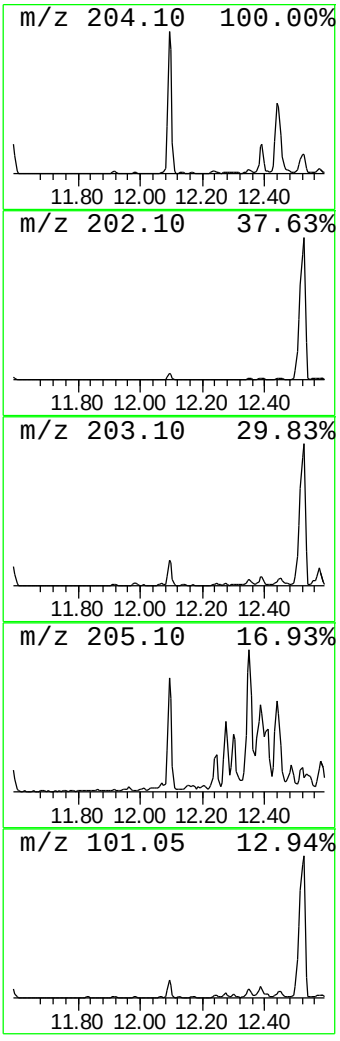
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	12.52 ng	891272	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	87
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	81
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72





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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

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ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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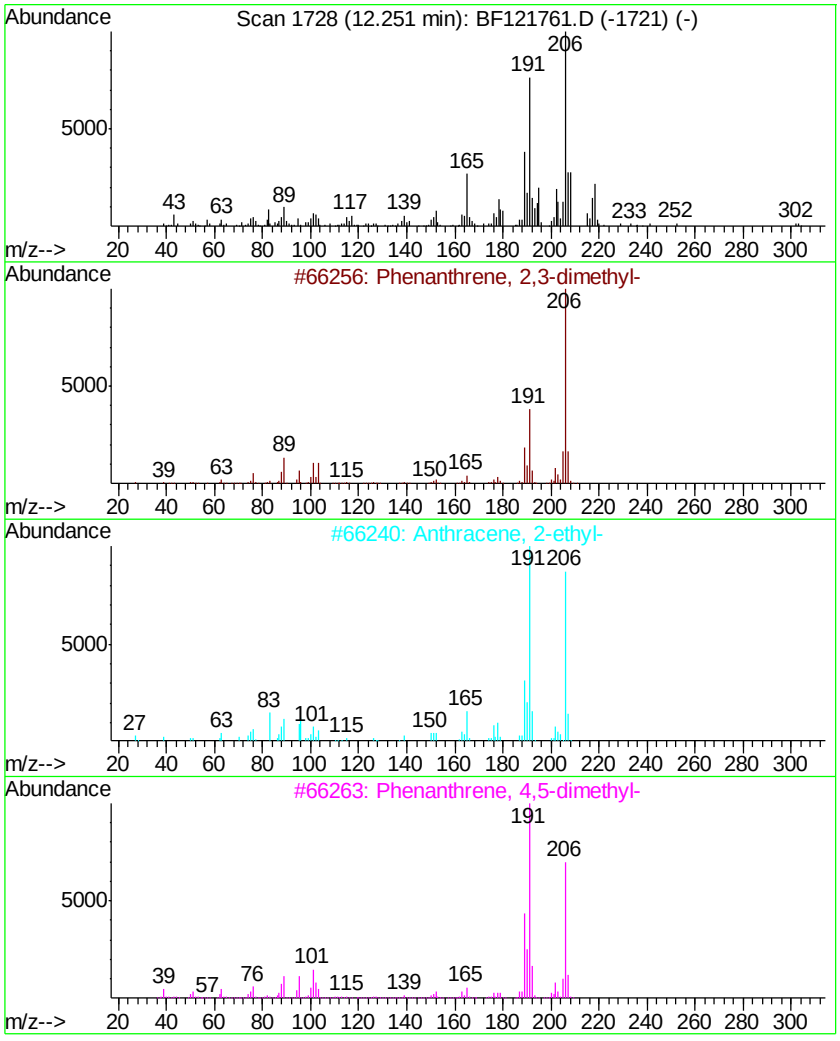
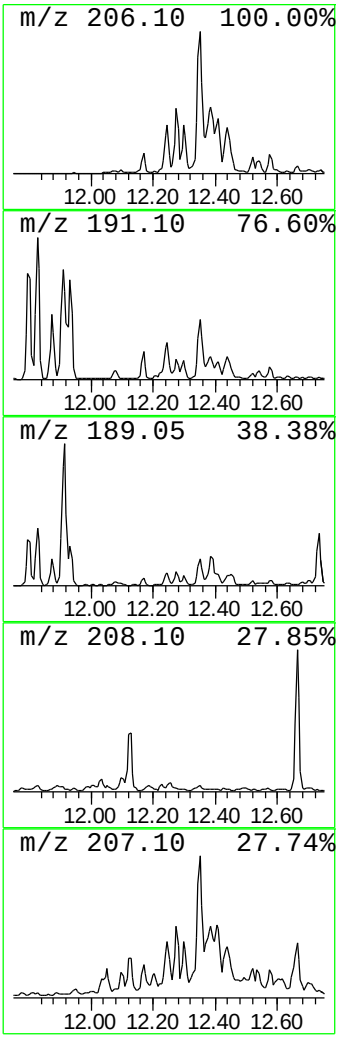
Peak Number 11 Phenanthrene, 2,3-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	6.76 ng	480915	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	94
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	91
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	91





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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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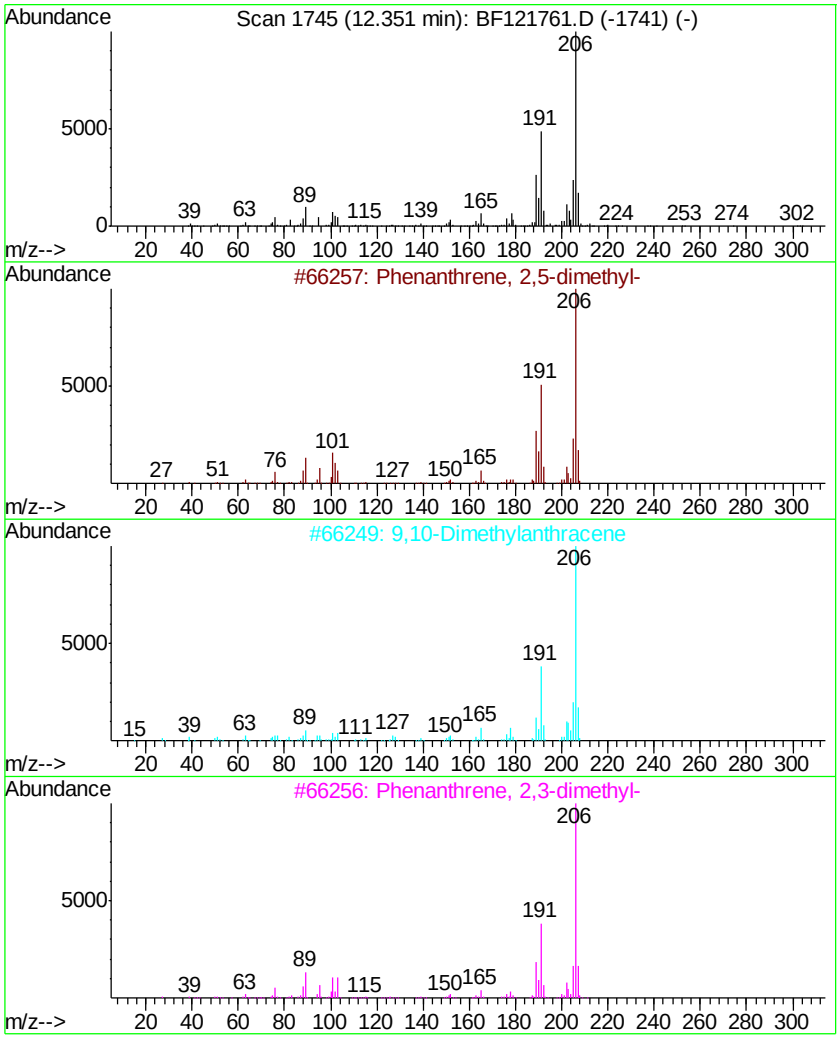
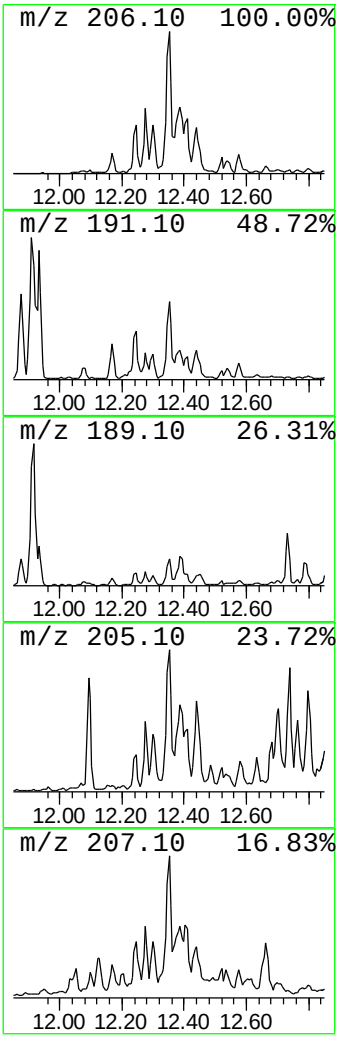
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.35	12.55 ng	893247	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87





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Misc :
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Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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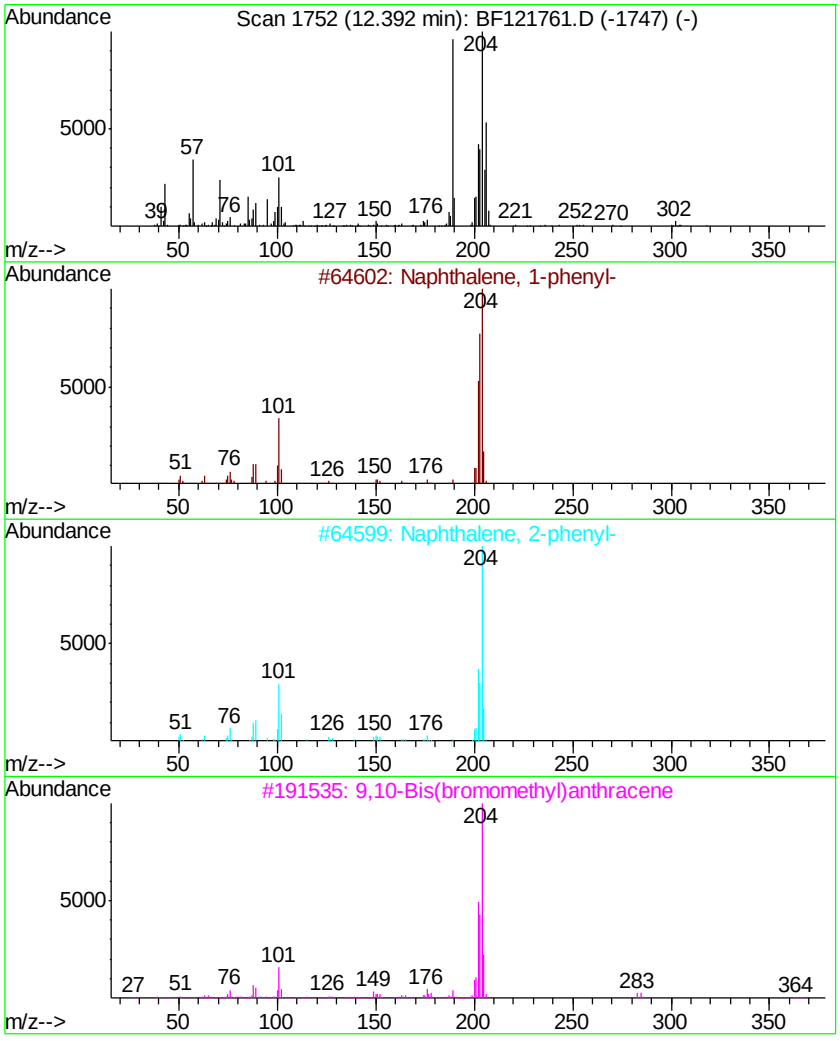
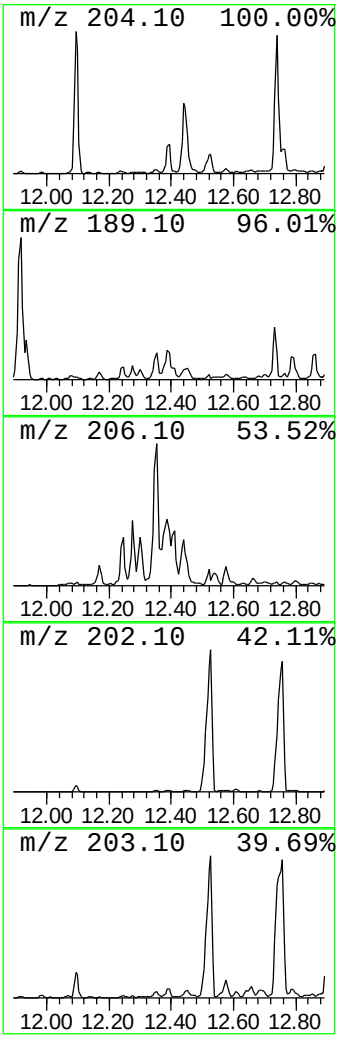
Peak Number 13 unknown12.39 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	10.41 ng	741204	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	47
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	35
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	30





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Misc :
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Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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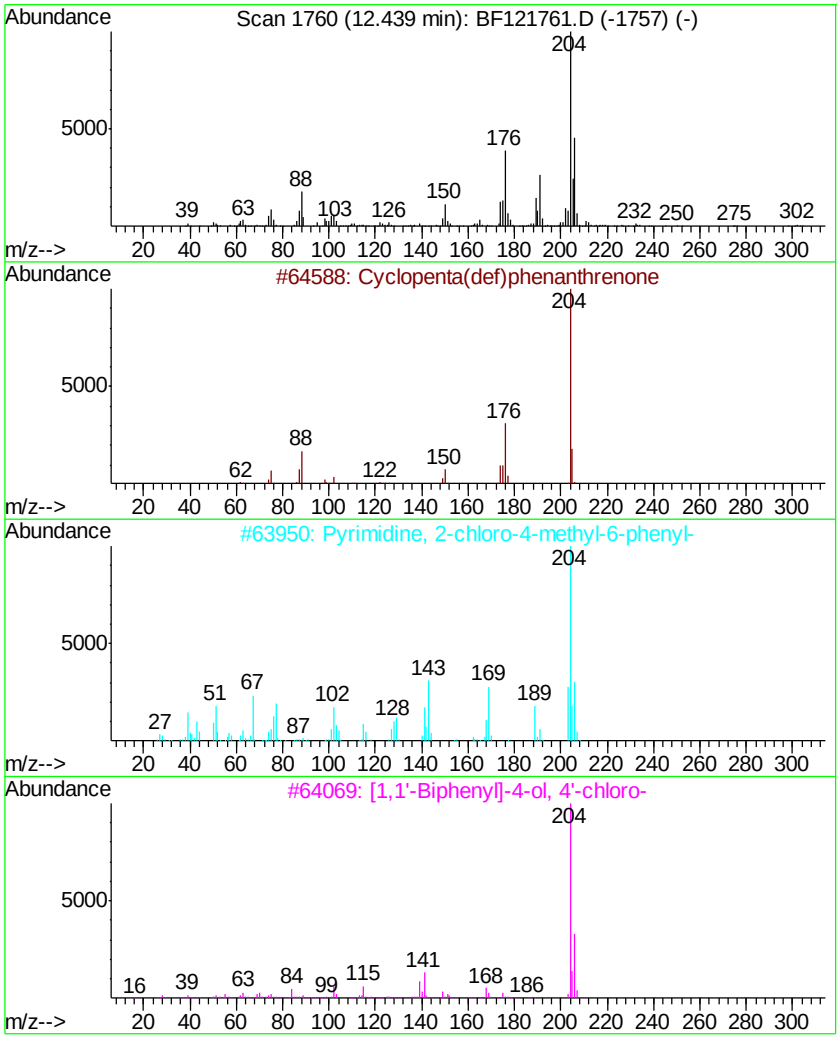
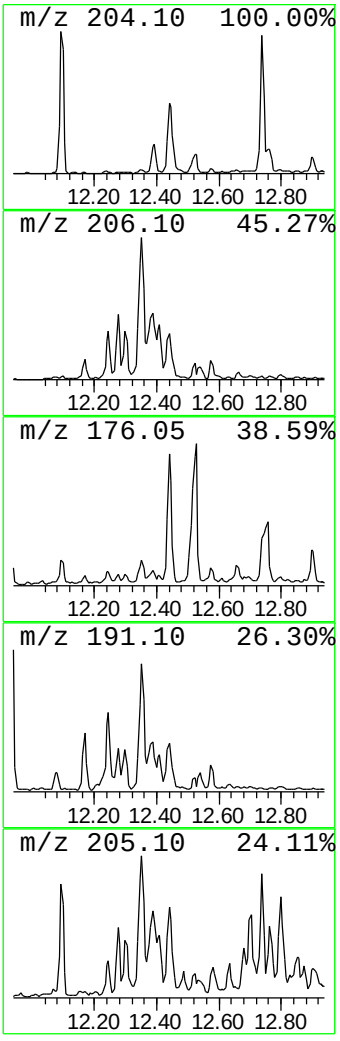
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	10.08 ng	717906	Phenanthrene-d10	11.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	47
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	46
4	Benzene, 1-chloro-3-phenoxy-	204	C12H9ClO	006452-49-9	43
5	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	43





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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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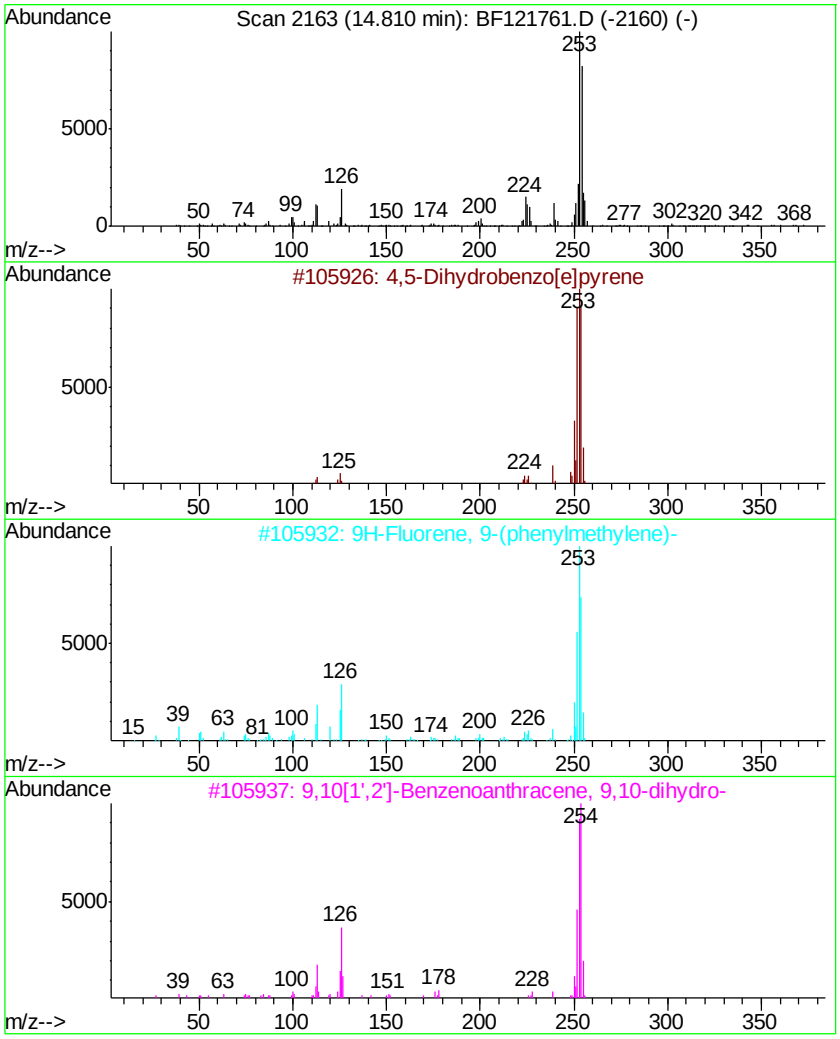
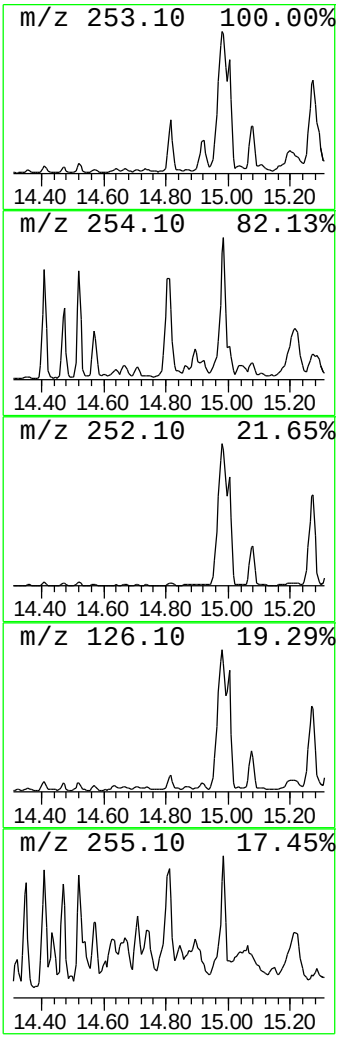
Peak Number 15 4,5-Dihydrobenzo[e]pyrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.81	7.05 ng	369264	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	81
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	74
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
4	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	62
5	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	55





Library Search Compound Report

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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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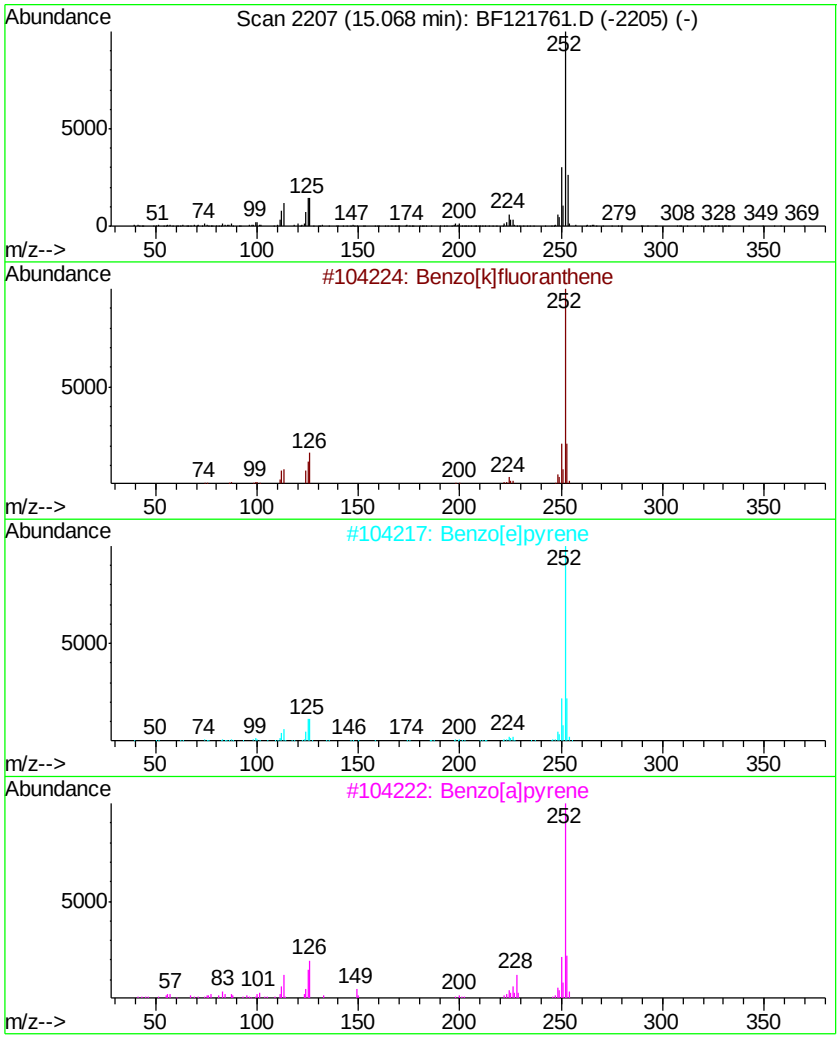
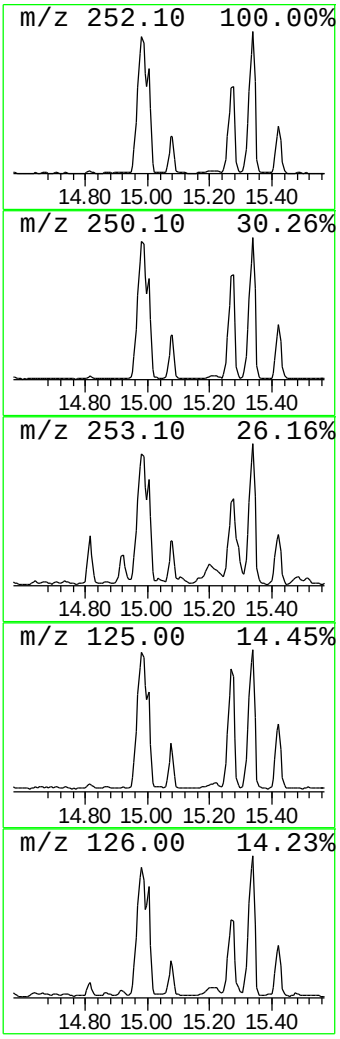
Peak Number 16 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	13.96 ng	731019	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	89





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Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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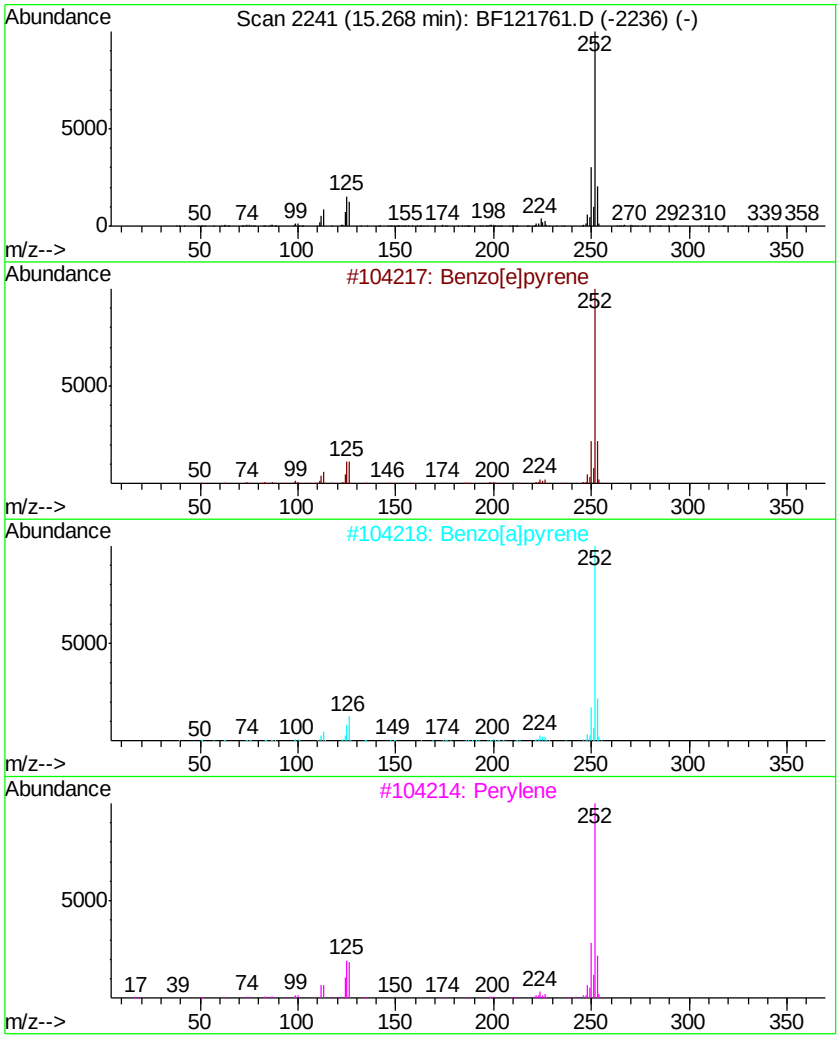
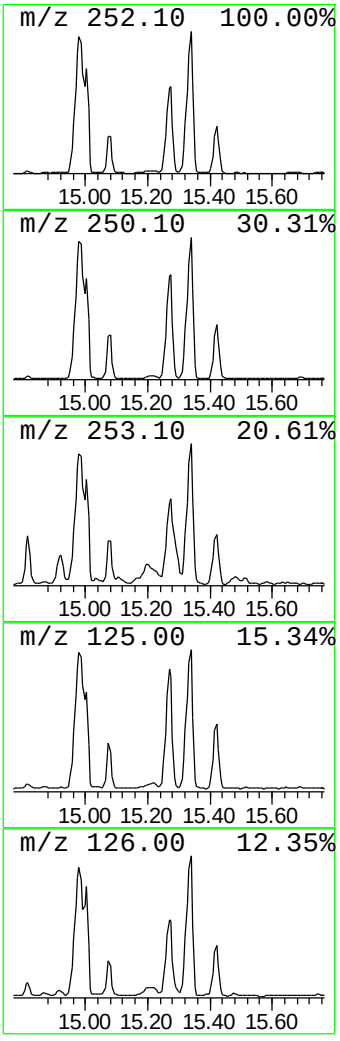
Peak Number 17 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	48.95 ng	2562450	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Perylene	252	C20H12	000198-55-0	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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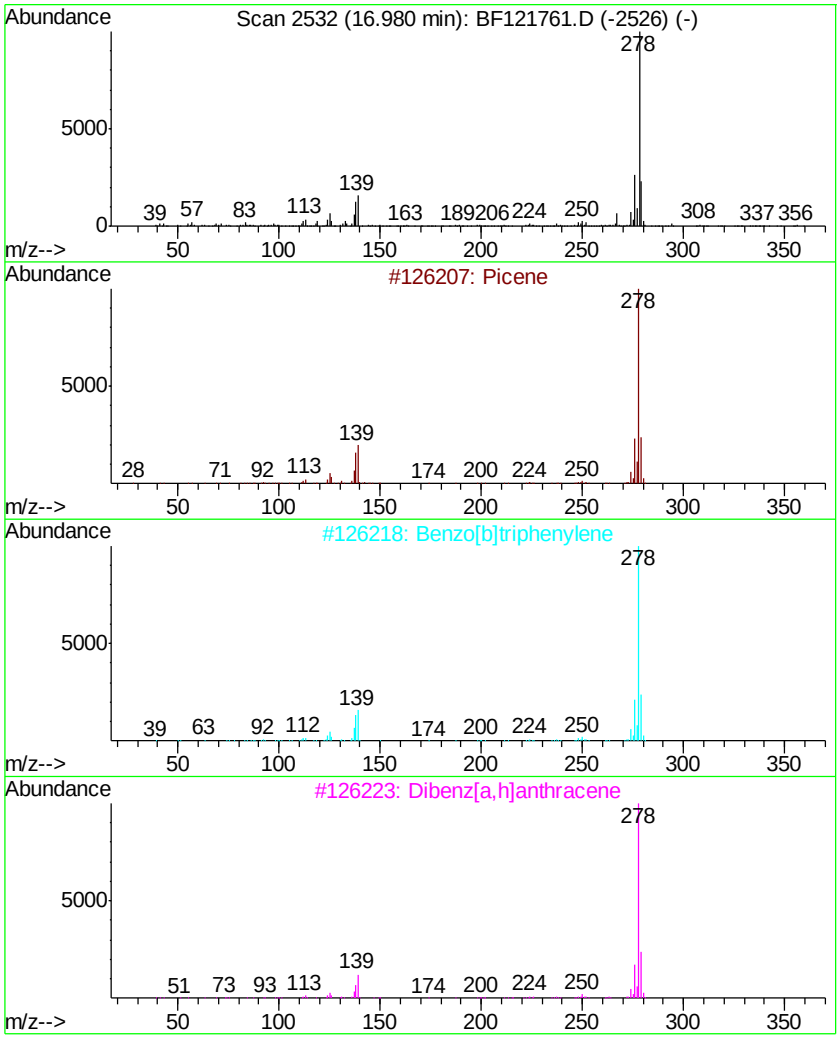
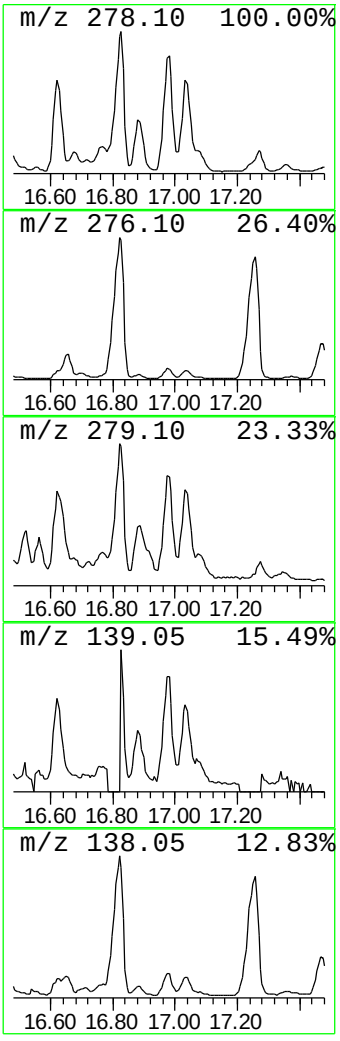
Peak Number 18 Picene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.98	12.41 ng	649793	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
4	Benzo[b]chrysene	278	C22H14	000214-17-5	97
5	Pentaphene	278	C22H14	000222-93-5	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
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Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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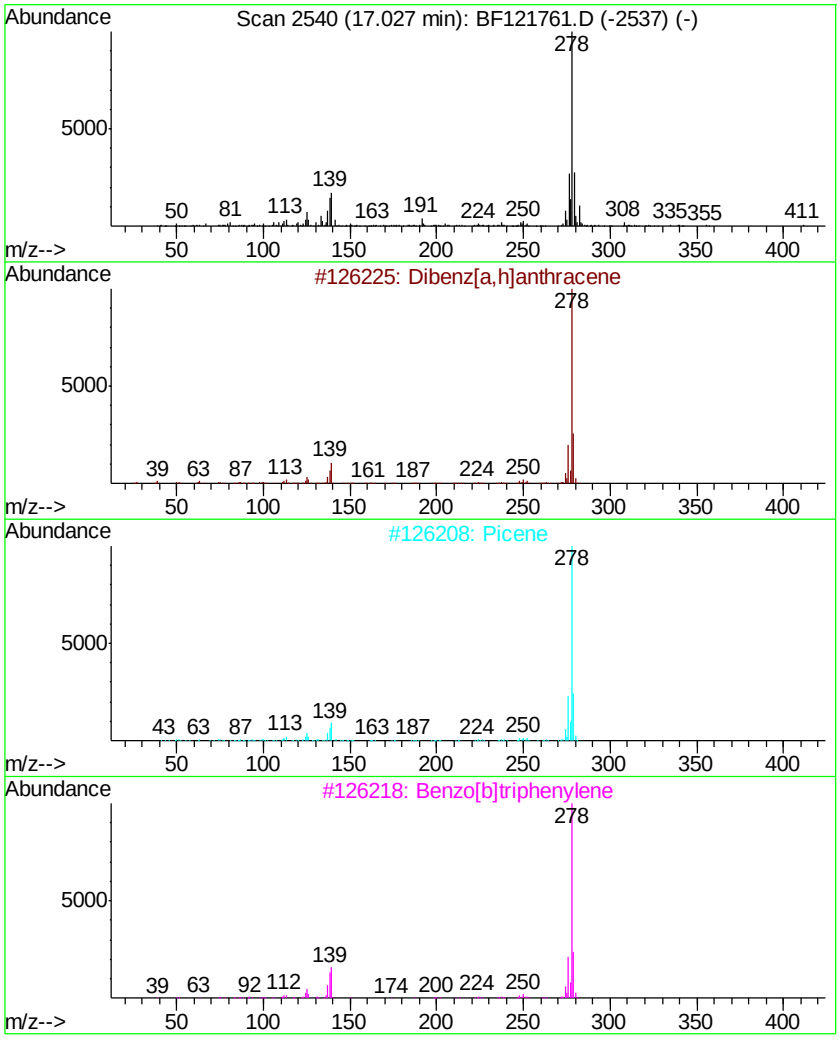
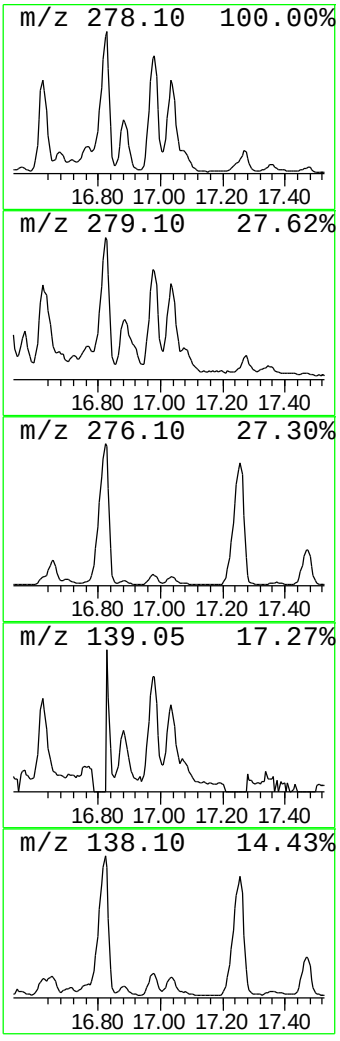
Peak Number 19 Benzo[b]triphenylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	7.34 ng	384135	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
2	Picene	278	C22H14	000213-46-7	98
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	97
4	Benzo[b]chrysene	278	C22H14	000214-17-5	96
5	Pentaphene	278	C22H14	000222-93-5	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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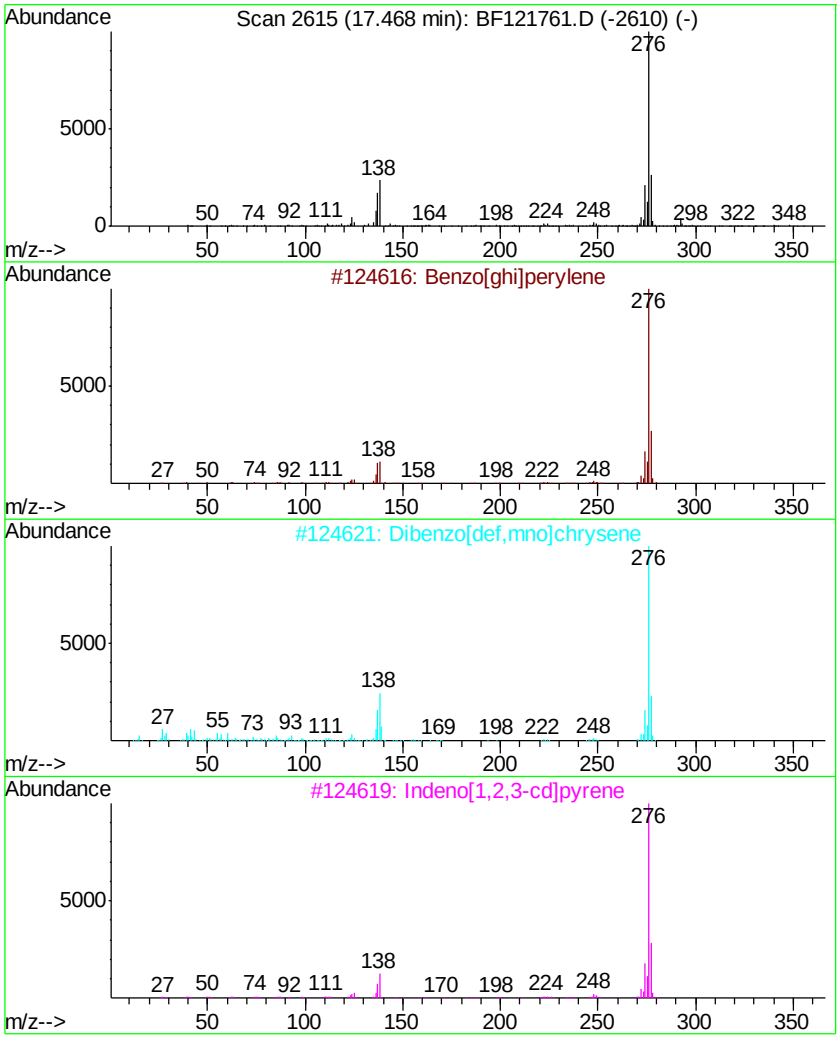
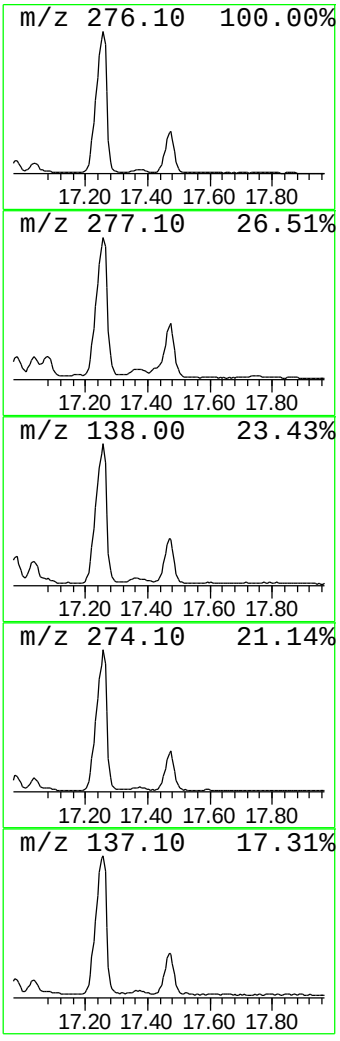
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.47	14.73 ng	770850	Perylene-d12	15.39

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	89
4	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	53
5	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF093020\
Data File : BF121761.D
Acq On : 1 Oct 2020 2:42
Operator : JU/CG
Sample : L4193-06
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : B-14(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Chamazulene	10.72	5.2	ng	366691	4	11.30	1423790	20.0
9H-Fluorene, 2-me...	10.90	5.7	ng	406351	4	11.30	1423790	20.0
Dibenz[c,e]oxepin...	11.15	6.9	ng	493552	4	11.30	1423790	20.0
Naphtho[2,1-b]thi...	11.19	6.0	ng	425057	4	11.30	1423790	20.0
Phenanthrene, 2-m...	11.80	16.4	ng	1169290	4	11.30	1423790	20.0
Phenanthrene, 1-m...	11.83	18.1	ng	1284840	4	11.30	1423790	20.0
Anthracene, 2-met...	11.87	10.1	ng	716739	4	11.30	1423790	20.0
4H-Cyclopenta[def...	11.91	28.8	ng	2048510	4	11.30	1423790	20.0
Naphthalene, 2-ph...	12.09	12.5	ng	891272	4	11.30	1423790	20.0
Phenanthrene, 2,3...	12.25	6.8	ng	480915	4	11.30	1423790	20.0
Phenanthrene, 2,5...	12.35	12.6	ng	893247	4	11.30	1423790	20.0
unknown12.39	12.39	10.4	ng	741204	4	11.30	1423790	20.0
Cyclopenta(def)ph...	12.44	10.1	ng	717906	4	11.30	1423790	20.0
4,5-Dihydrobenzo[...	14.81	7.0	ng	369264	6	15.39	1046990	20.0
Benzo[e]pyrene	15.07	14.0	ng	731019	6	15.39	1046990	20.0
Perylene	15.27	49.0	ng	2562450	6	15.39	1046990	20.0
Picene	16.98	12.4	ng	649793	6	15.39	1046990	20.0
Benzo[b]triphenylene	17.03	7.3	ng	384135	6	15.39	1046990	20.0
Dibenzo[def,mno]c...	17.47	14.7	ng	770850	6	15.39	1046990	20.0