LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

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-BF070220.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	5.440	565	570	574	rBV	2972809	2978080	42.19%	2.549%
2	6.451	737	742	745	rBV	2827426	2976513	42.17%	2.548%
3	6.828	803	806	810	rVB	1484440	1201475	17.02%	1.028%
4	7.392	894	902	905	rBV	2073050	2019048	28.60%	1.728%
5	8.110	1019	1024	1026	rBV	1734967	1630330	23.10%	1.395%
6	8.134	1026	1028	1031	rVB	1364089	982378	13.92%	0.841%
7	8.828	1141	1146	1149	rVB	1584995	1333927	18.90%	1.142%
8	8.922	1157	1162	1166	rVB	1425295	1352034	19.15%	1.157%
9	9.192	1202	1208	1211	rBV	3776192	3493373	49.49%	2.990%
10	9.286	1218	1224	1226	rBV	360964	393259	5.57%	0.337%
11	9.310	1226	1228	1231	rVB	405756	311075	4.41%	0.266%
12	9.386	1238	1241	1246	rVB	277217	342625	4.85%	0.293%
13	9.451	1246	1252	1256	rBV	803647	1087035	15.40%	0.930%
14	9.528	1260	1265	1267	rBV	1423271	1327726	18.81%	1.136%
15	9.551	1267	1269	1272	rVB	778066	611703	8.67%	0.524%
16	9.581	1272	1274	1279	rVB2	583304	576446	8.17%	0.493%
17	9.645	1279	1285	1287	rBV	715828	708955	10.04%	0.607%
18	9.728	1294	1299	1303	rVB	1578546	1226389	17.37%	1.050%
19	9.869	1316	1323	1326	rBV2	2059119	2059656	29.18%	1.763%
20	9.898	1326	1328	1332	rVV	1100617	1017790	14.42%	0.871%
21	9.975	1337	1341	1345	rBV2	282344	372551	5.28%	0.319%
22	10.028	1345	1350	1352	rVV2	228124	331795	4.70%	0.284%
23	10.069	1352	1357	1361	rVV	1192570	1191974	16.89%	1.020%
24	10.110	1361	1364	1367	rVV	463190	384569	5.45%	0.329%
25	10.186	1372	1377	1379	rBV2	369287	446709	6.33%	0.382%
26	10.210	1379	1381	1384	rVV	362677	287670	4.08%	0.246%
27	10.275	1387	1392	1394	rBV2	318561	422389	5.98%	0.362%
28	10.369	1405	1408	1410	rVV3	213132	256513	3.63%	0.220%
29	10.416	1412	1416	1420	rVV	2773245	2639267	37.39%	2.259%
30	10.451	1420	1422	1423	rVV	263101	243556	3.45%	0.208%
31	10.480	1425	1427	1429	rVV	513256	484312	6.86%	0.415%
32	10.498	1429	1430	1433	rVV	428721	371233	5.26%	0.318%
33	10.528	1433	1435	1437	rVV2	333679	309630	4.39%	0.265%
34	10.569	1440	1442	1449	rVV2	491855	583923	8.27%	0.500%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

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-BF070220.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.651	1451	1456	1461	rVV2	2335639	2584161	36.61%	2.212%
36	10.780	1472	1478	1482	rVB2	254831	298788	4.23%	0.256%
37	10.963	1501	1509	1511	rBV	780089	976056	13.83%	0.835%
38	10.992	1511	1514	1517	rVV2	540534	578907	8.20%	0.495%
39	11.045	1520	1523	1526	rVV	500418	447172	6.33%	0.383%
40	11.110	1532	1534	1537	rVV2	285279	317268	4.49%	0.272%
41	11.204	1546	1550	1553	rVV	217243	296546	4.20%	0.254%
42	11.251	1555	1558	1563	rVB	1077860	1035050	14.66%	0.886%
43	11.357	1571	1576	1577	rBV	1619645	1643827	23.29%	1.407%
44	11.386	1577	1581	1584	rVV	5276831	7058797	100.00%	6.042%
45	11.433	1584	1589	1591	rVV	3032252	2583187	36.60%	2.211%
46	11.463	1591	1594	1597	rVV2	341919	361343	5.12%	0.309%
47	11.580	1611	1614	1617	rBV	787232	632720	8.96%	0.542%
48	11.651	1623	1626	1628	rBV	335070	236546	3.35%	0.202%
49	11.680	1628	1631	1635	rVB2	546212	562926	7.97%	0.482%
50	11.769	1643	1646	1650	rVB	423562	451098	6.39%	0.386%
51	11.857	1657	1661	1663	rBV	1968970	1723608	24.42%	1.475%
52	11.886	1663	1666	1669	rVB	2349542	1987334	28.15%	1.701%
53	11.933	1669	1674	1676	rBV	881302	816691	11.57%	0.699%
54	11.969	1676	1680	1683	rBV	2812414	3338219	47.29%	2.857%
55	11.992	1683	1684	1687	rVB	1518021	750325	10.63%	0.642%
56	12.057	1688	1695	1698	rBV3	160498	258105	3.66%	0.221%
57	12.151	1708	1711	1713	rBV	1021930	785310	11.13%	0.672%
58	12.174	1713	1715	1719	rVB2	287960	302990	4.29%	0.259%
59	12.333	1739	1742	1744	rBV2	492179	528530	7.49%	0.452%
60	12.404	1749	1754	1757	rBV	1050827	1227375	17.39%	1.050%
61	12.445	1757	1761	1766	rVB	702208	1085115	15.37%	0.929%
62	12.492	1766	1769	1774	rBV3	349523	611091	8.66%	0.523%
63	12.574	1778	1783	1786	rBV	4734119	5314786	75.29%	4.549%
64	12.616	1786	1790	1791	rVV2	216429	233790	3.31%	0.200%
65	12.657	1795	1797	1800	rVB	429254	406482	5.76%	0.348%
66	12.716	1805	1807	1812	rVV2	293340	357724	5.07%	0.306%
67	12.804	1815	1822	1827	rBV	4543226	6233031	88.30%	5.335%
68	12.845	1827	1829	1834	rVB2	289766	368099	5.21%	0.315%
69	12.910	1837	1840	1842	rBV2	296320	287868	4.08%	0.246%
70	12.939	1842	1845	1852	rVB	3062267	3219866	45.61%	2.756%
71	13.016	1852	1858	1861	rBV3	586851	909214	12.88%	0.778%

LSC Area Percent Report

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Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

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-BF070220.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.098	1869	1872	1873	rVV4	420917	420147	5.95%	0.360%
73	13.121	1874	1876	1879	rVB	1399692	1331726	18.87%	1.140%
74	13.192	1879	1888	1890	rBV	1462683	1517026	21.49%	1.298%
75	13.227	1890	1894	1897	rVV2	920153	861105	12.20%	0.737%
76	13.321	1907	1910	1912	rVB	536826	461227	6.53%	0.395%
77	13.351	1912	1915	1919	rBV	621700	553713	7.84%	0.474%
78	13.527	1941	1945	1946	rBV3	196171	213645	3.03%	0.183%
79	13.604	1955	1958	1961	rBV2	206579	316104	4.48%	0.271%
80	13.739	1977	1981	1984	rVV2	551150	671101	9.51%	0.574%
81	13.769	1984	1986	1988	rVV	592756	491854	6.97%	0.421%
82	13.792	1988	1990	1996	rVV3	365561	510444	7.23%	0.437%
83	13.839	1996	1998	2005	rVB3	418171	475745	6.74%	0.407%
84	13.986	2017	2023	2027	rBV3	3065062	4739189	67.14%	4.056%
85	14.021	2027	2029	2034	rVB	2714549	2335166	33.08%	1.999%
86	14.133	2045	2048	2050	rVV	323487	252881	3.58%	0.216%
87	14.216	2058	2062	2065	rBV2	220076	299928	4.25%	0.257%
88	14.380	2086	2090	2093	rVV	772993	848869	12.03%	0.727%
89	14.410	2093	2095	2099	rVV	410136	412263	5.84%	0.353%
90	14.474	2103	2106	2108	rVV2	478848	511510	7.25%	0.438%
91	14.504	2108	2111	2113	rVV	480507	517344	7.33%	0.443%
92	14.521	2113	2114	2118	rVB2	485672	418661	5.93%	0.358%
93	15.033	2196	2201	2204	rBV	1765848	2857782	40.49%	2.446%
94	15.133	2215	2218	2223	rVB	400539	464920	6.59%	0.398%
95	15.333	2247	2252	2257	rVB	1134730	1473596	20.88%	1.261%
96	15.398	2258	2263	2268	rVV	1897933	2390578	33.87%	2.046%
97	15.457	2269	2273	2275	rVV	1077769	1336705	18.94%	1.144%
98	15.486	2275	2278	2284	rVB2	550771	817315	11.58%	0.700%
99	16.898	2512	2518	2527	rVB2	716678	1503168	21.29%	1.287%
100	17.333	2587	2592	2602	rVB	509884	1068850	15.14%	0.915%

Sum of corrected areas: 116838415

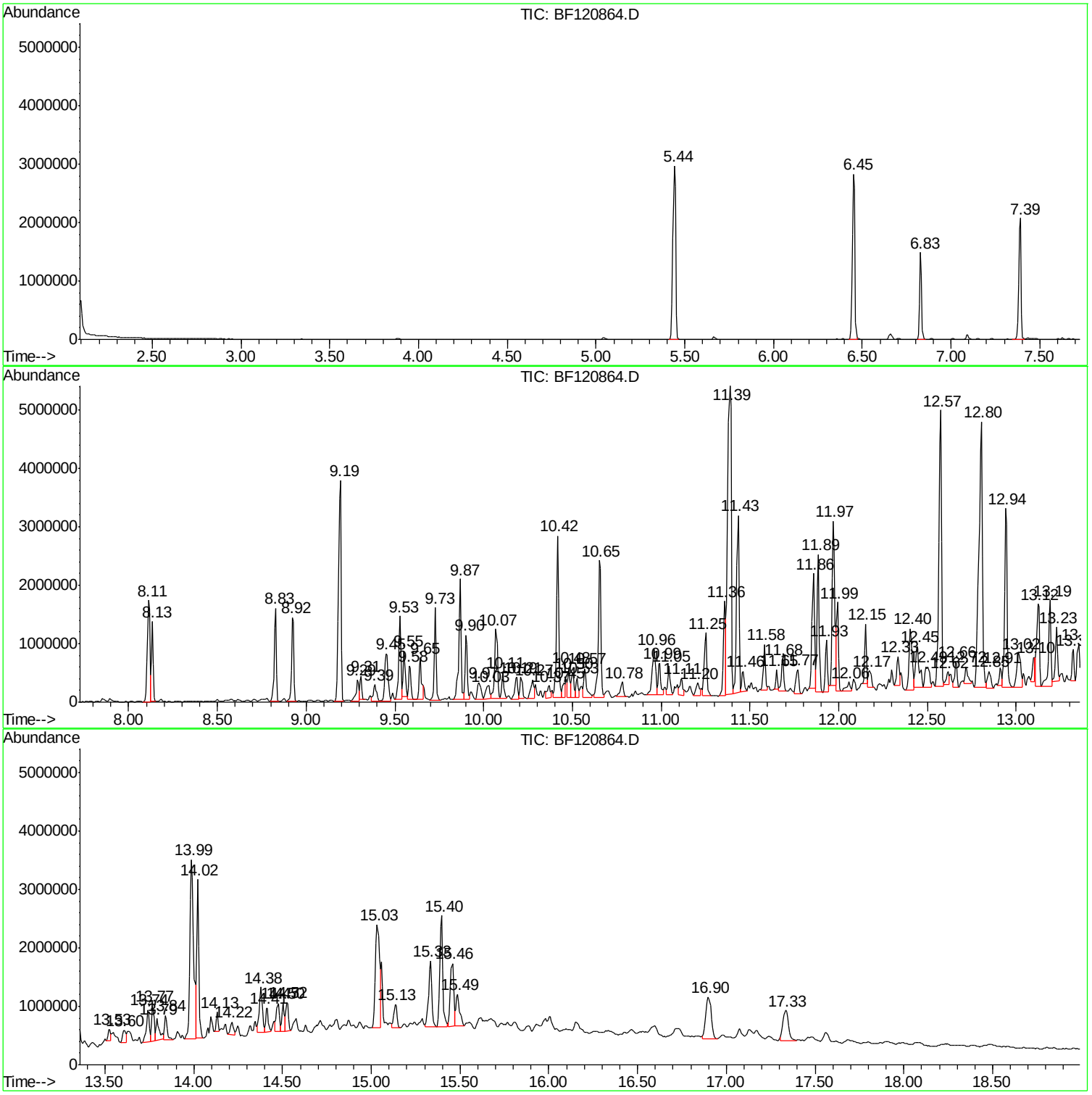
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.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\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

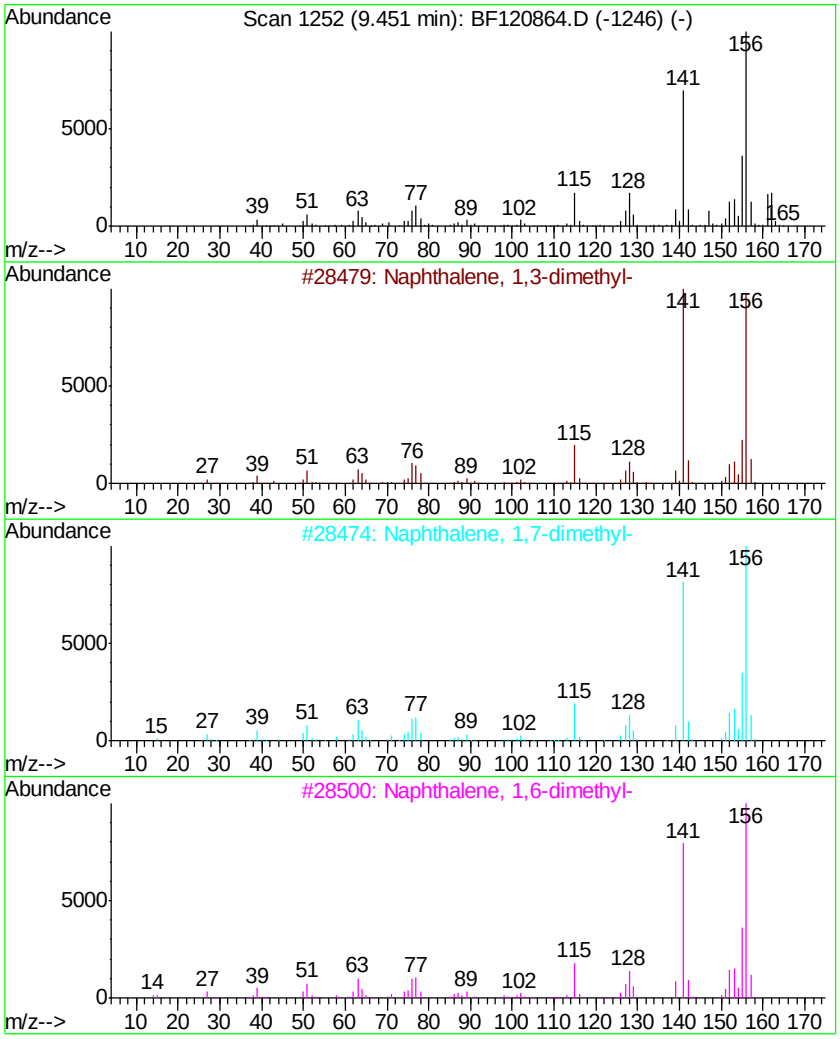
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

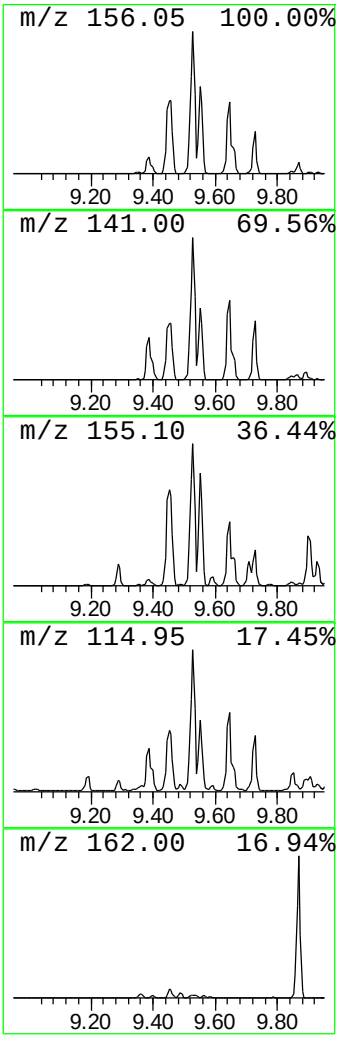
****

Peak Number 1 Naphthalene, 1,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	10.56 ng	1087040	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

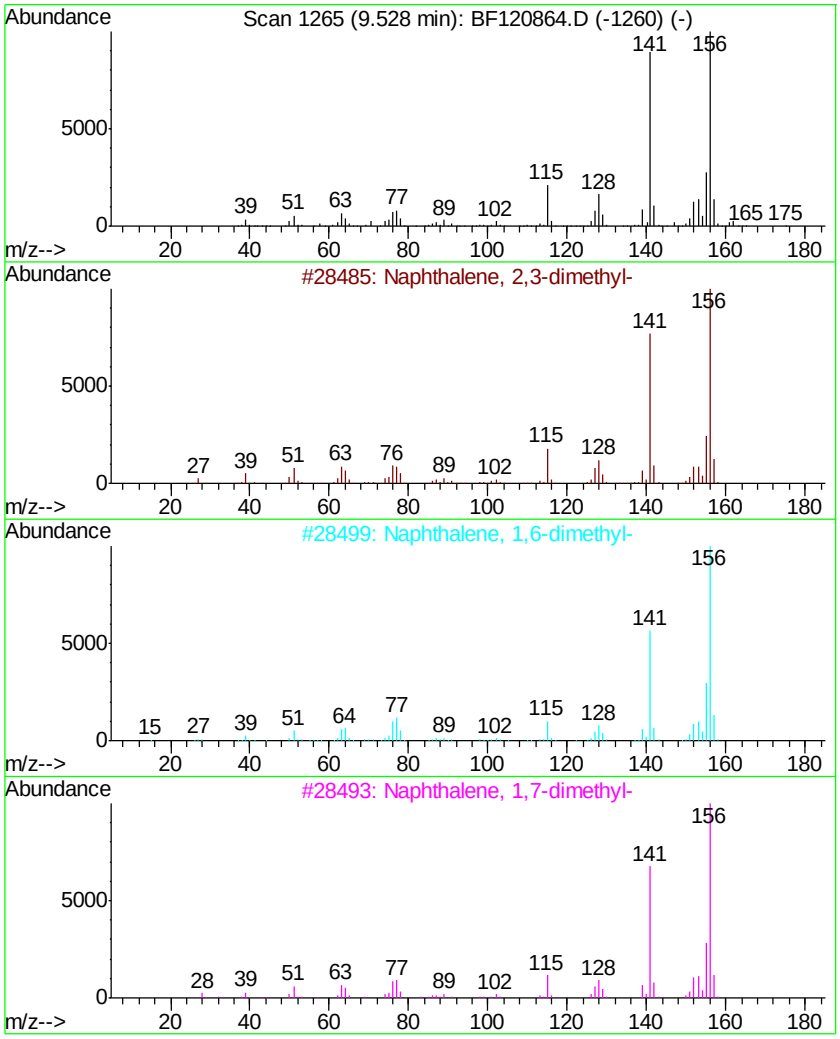
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

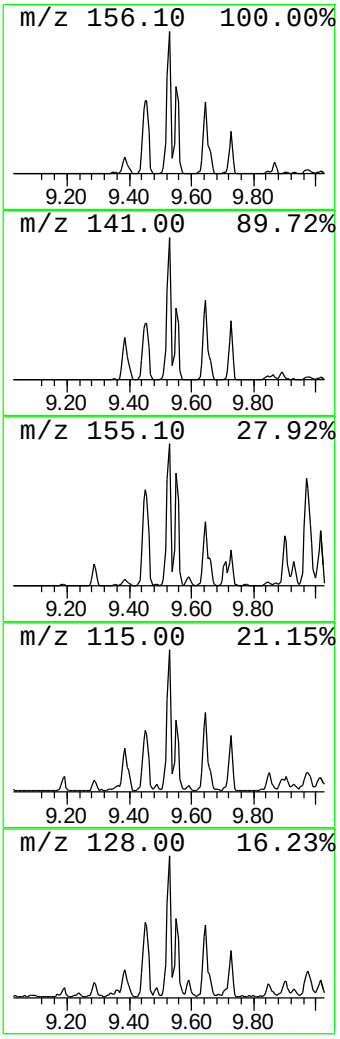
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.53	12.89 ng	1327730	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

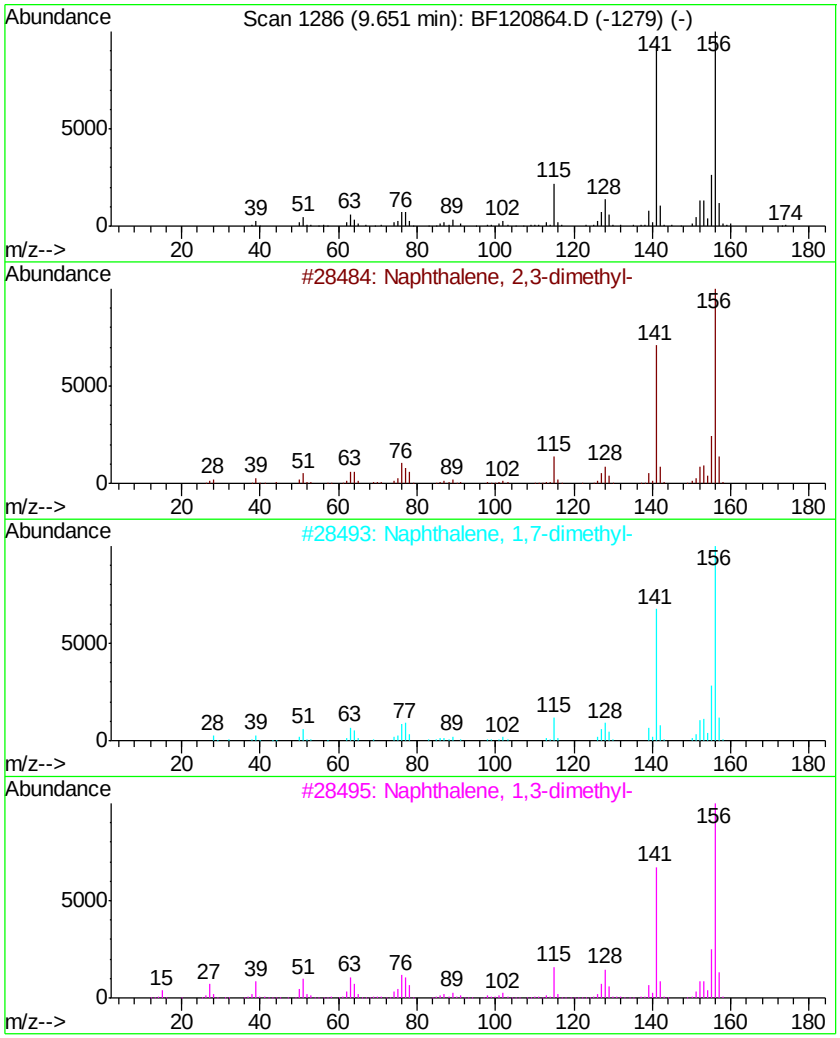
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

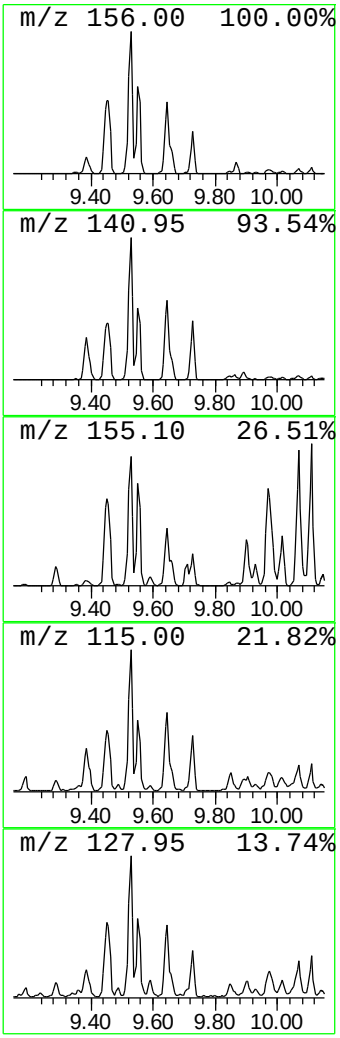
****

Peak Number 3 Naphthalene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	6.88 ng	708955	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

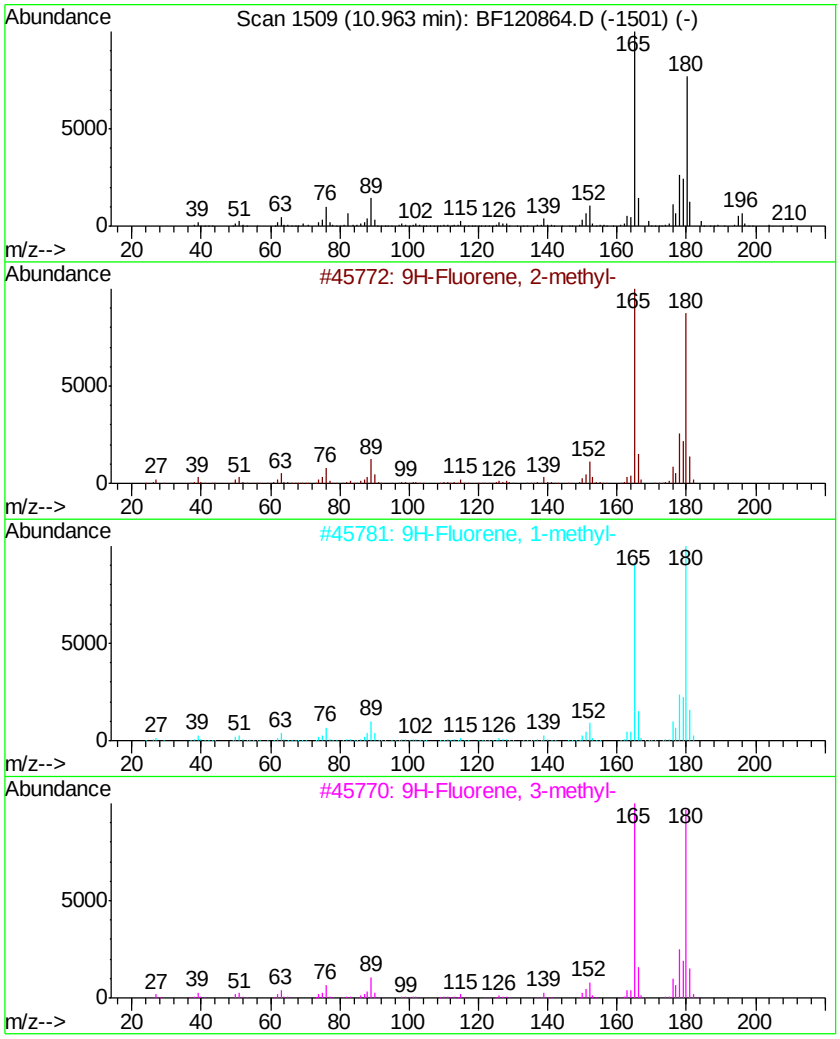
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

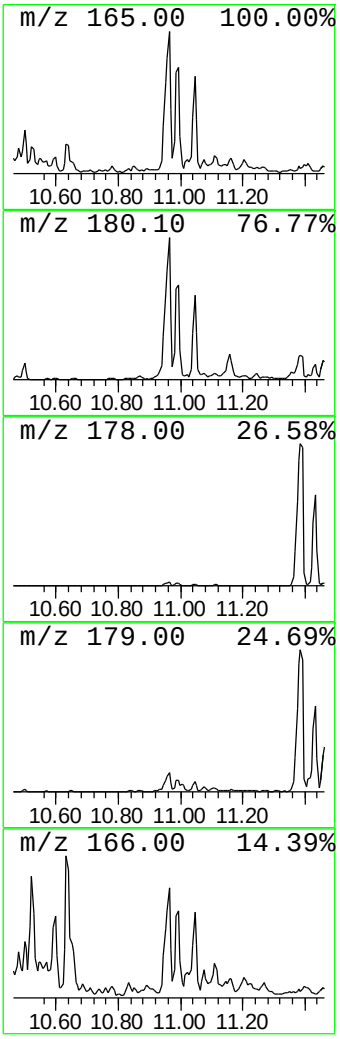
****

Peak Number 4 9H-Fluorene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	11.88 ng	976056	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	94
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

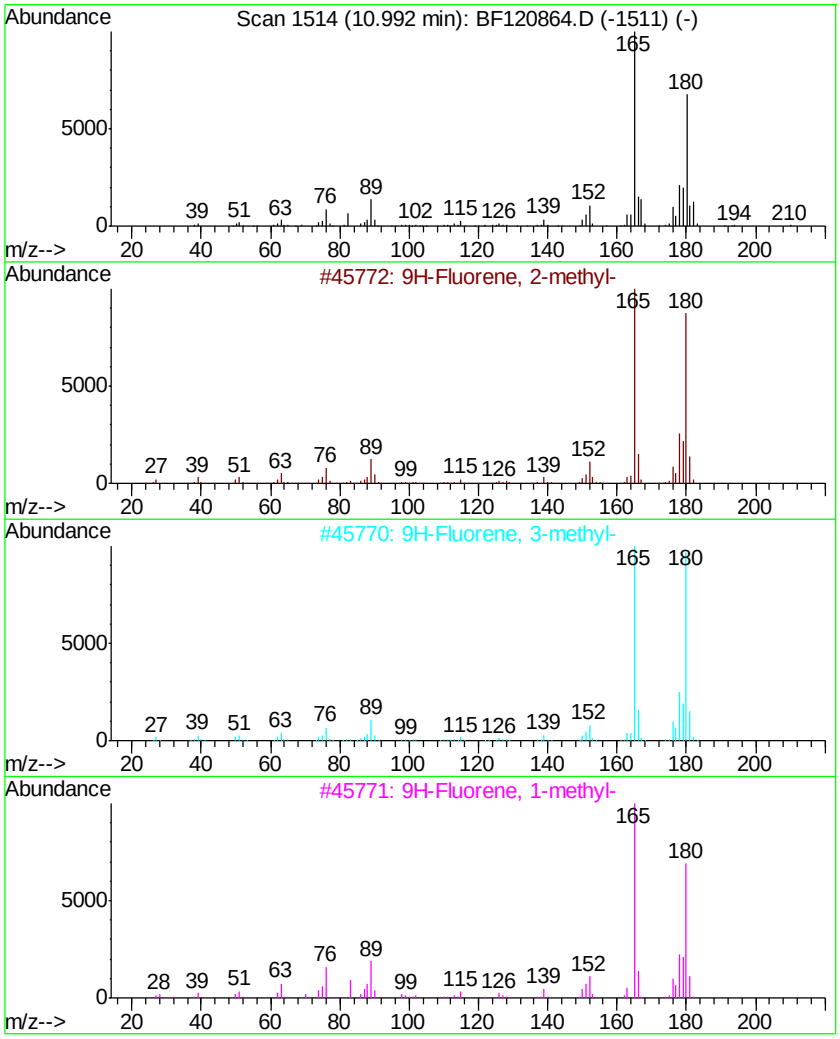
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

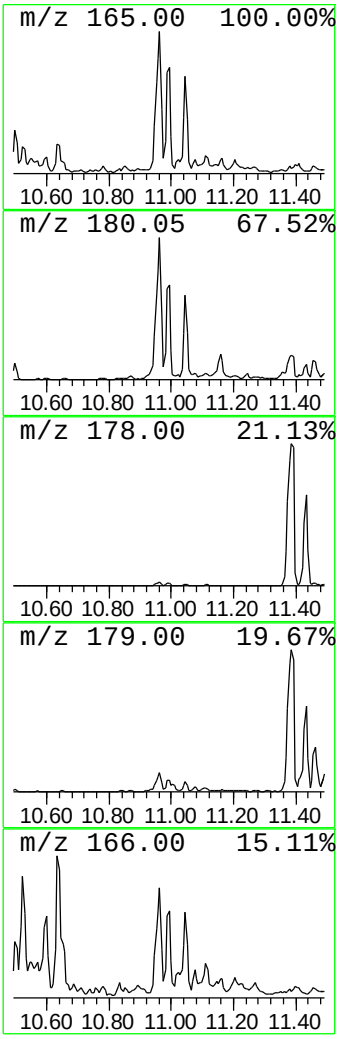
****

Peak Number 5 9H-Fluorene, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.99	7.04 ng	578907	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	96
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	64





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Sample : L3181-01
Misc :
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ClientSampleId : CL-02-070920

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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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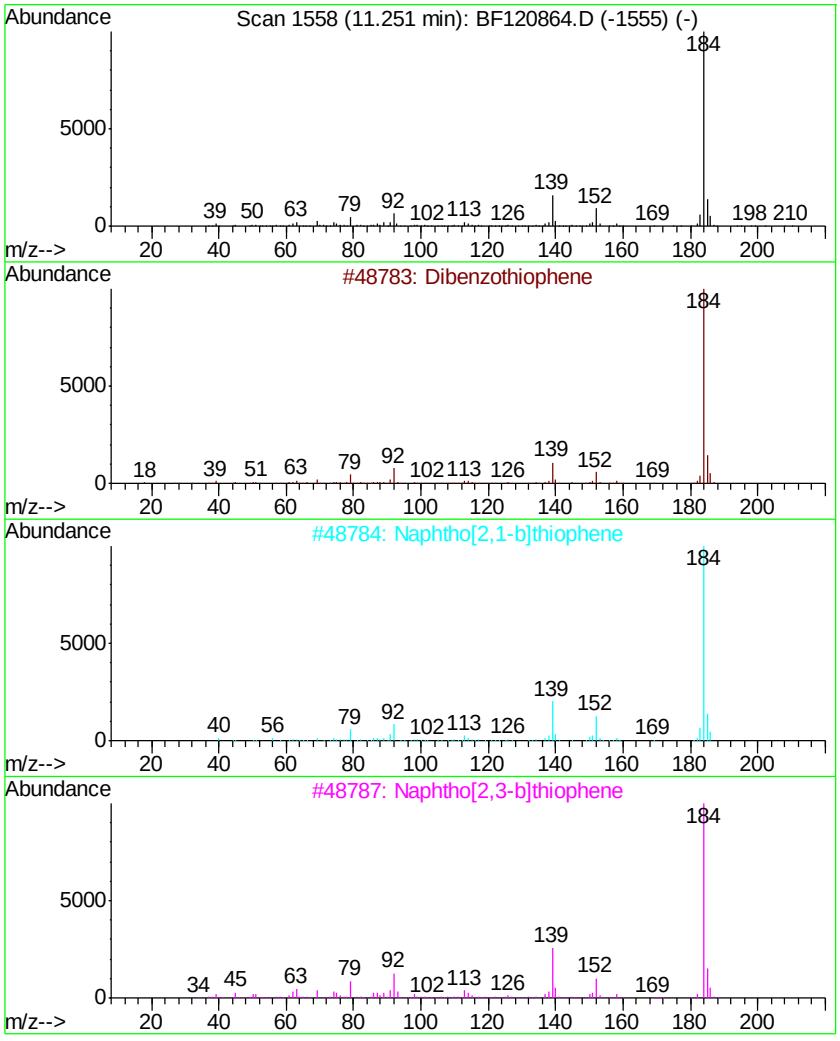
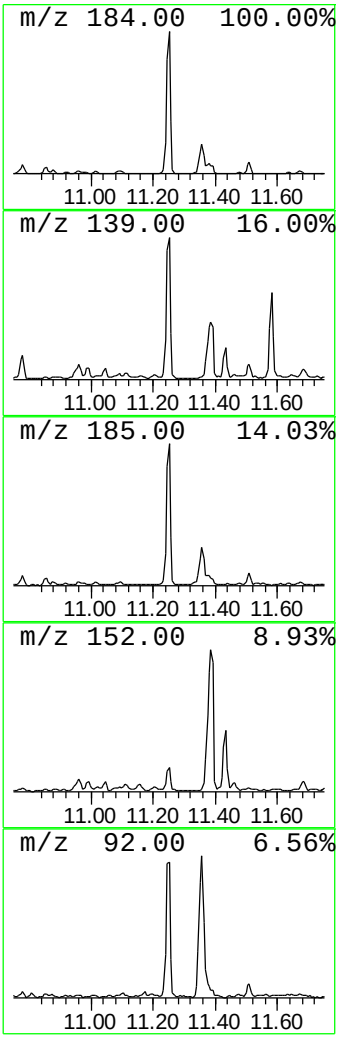
Peak Number 6 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	12.59 ng	1035050	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
5	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72





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ClientSampleId : CL-02-070920

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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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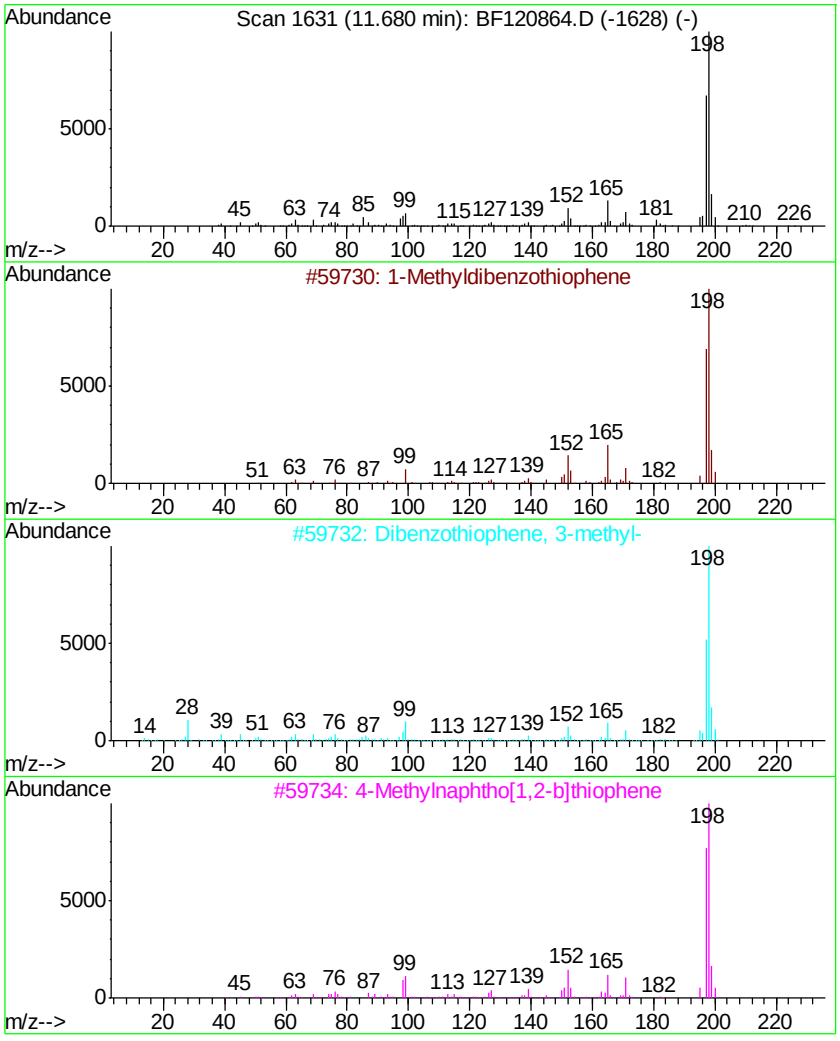
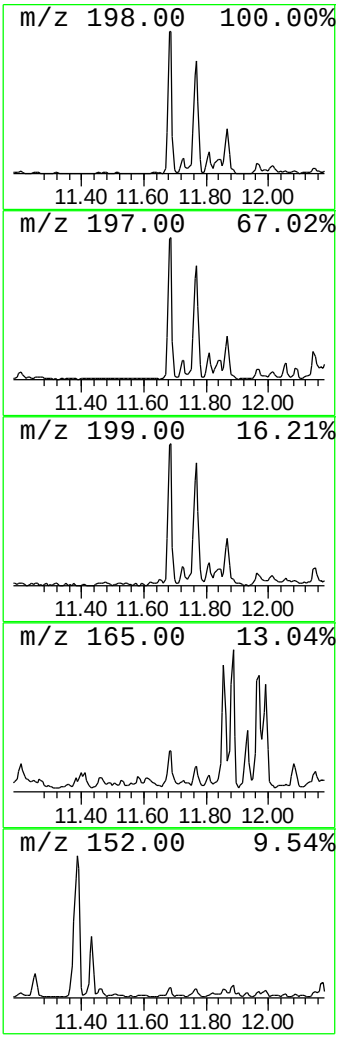
Peak Number 7 1-Methyldibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.68	6.85 ng	562926	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	96
3	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	94
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	93
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80





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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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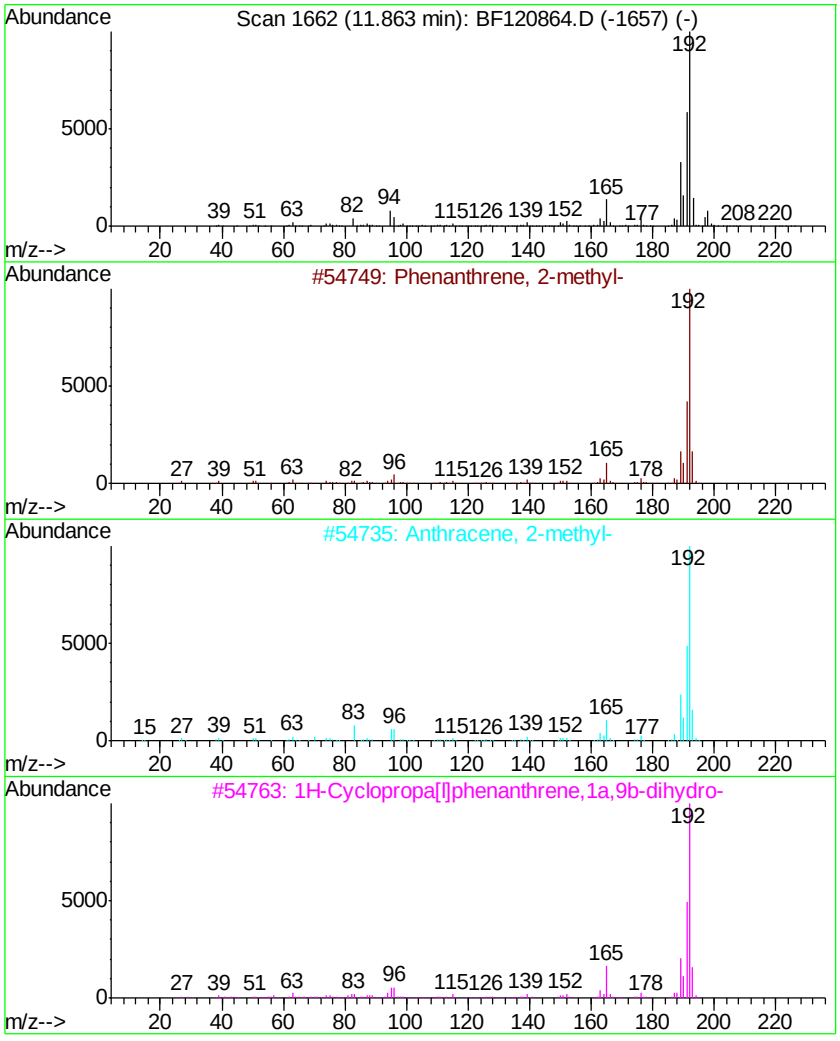
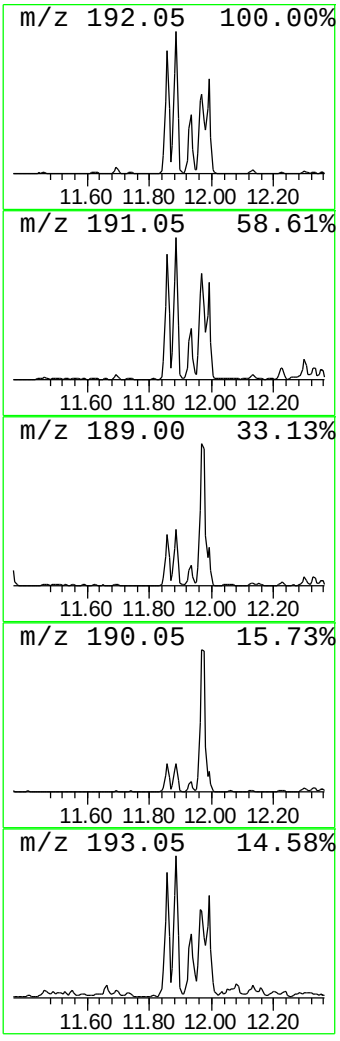
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	20.97 ng	1723610	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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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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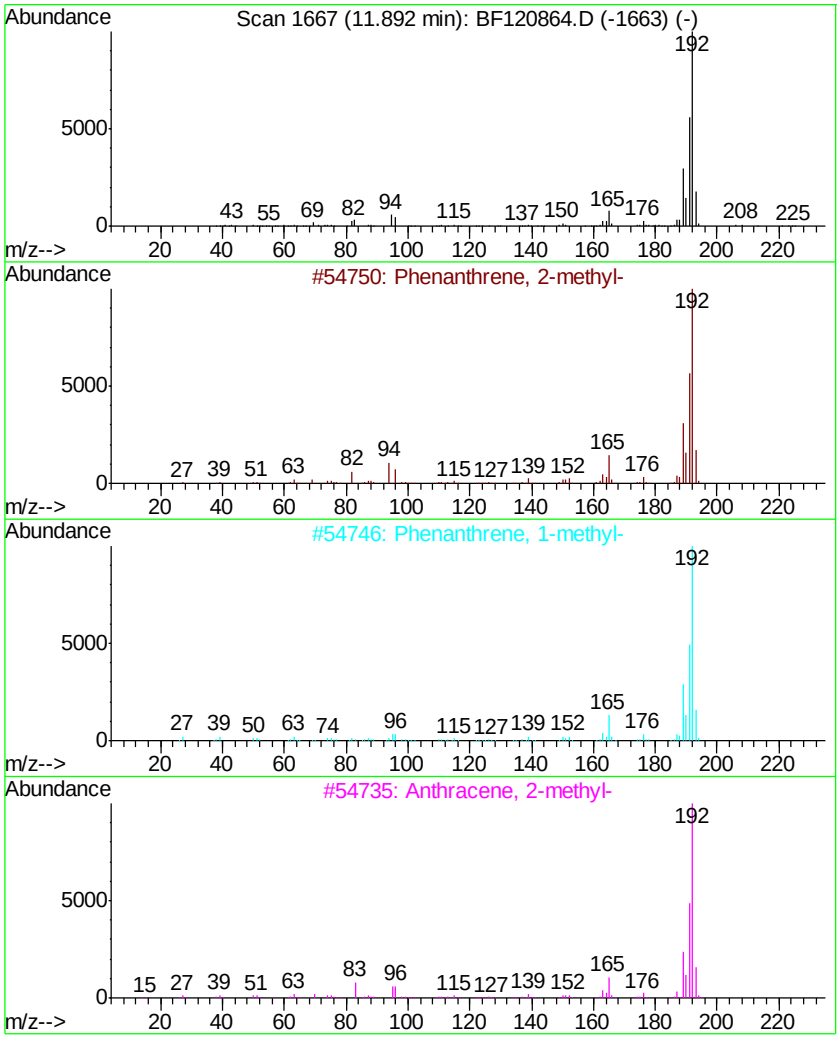
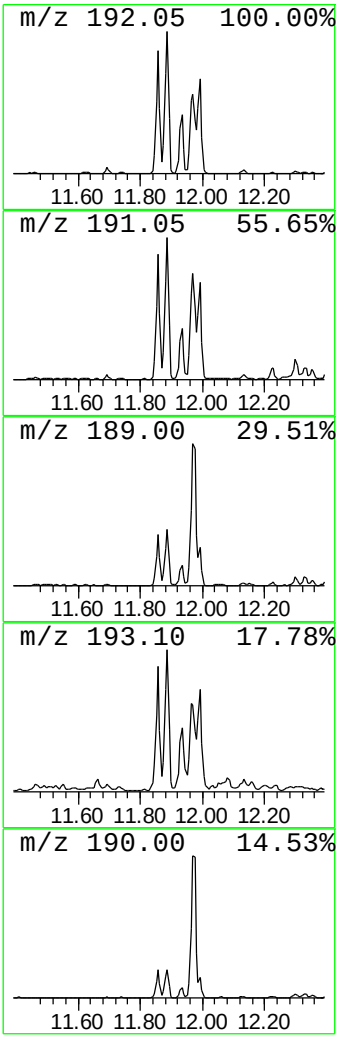
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	24.18 ng	1987330	Phenanthrene-d10	11.36

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-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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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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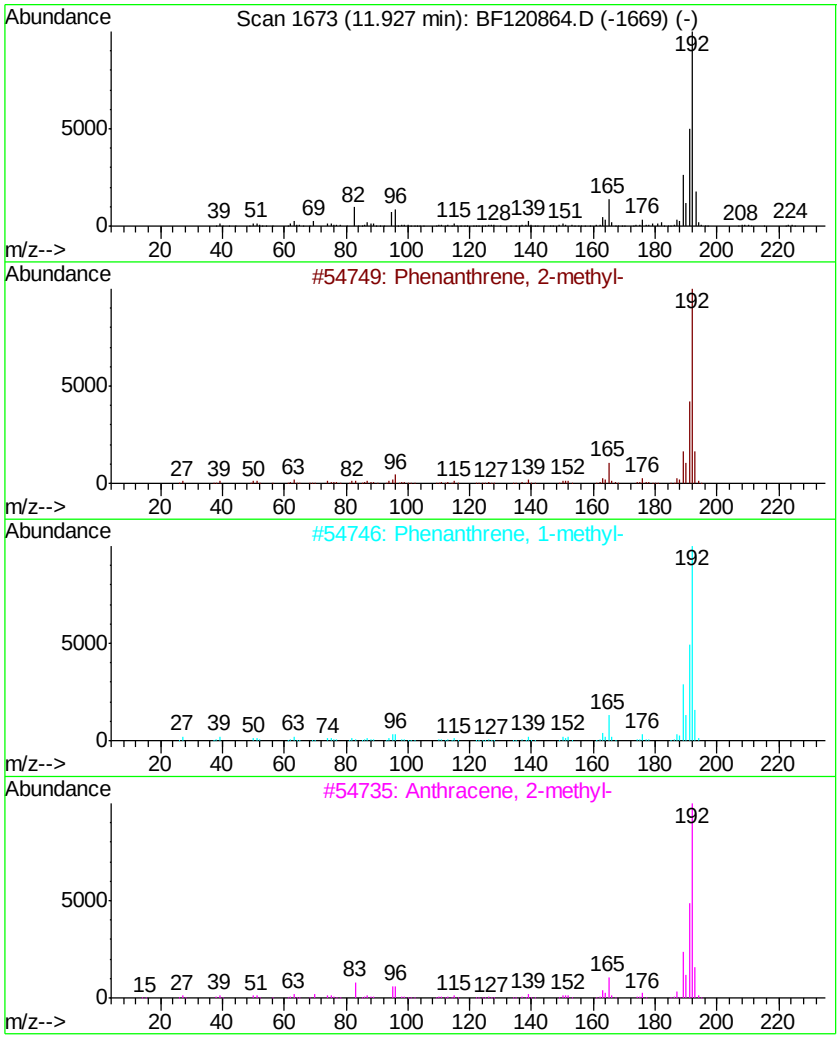
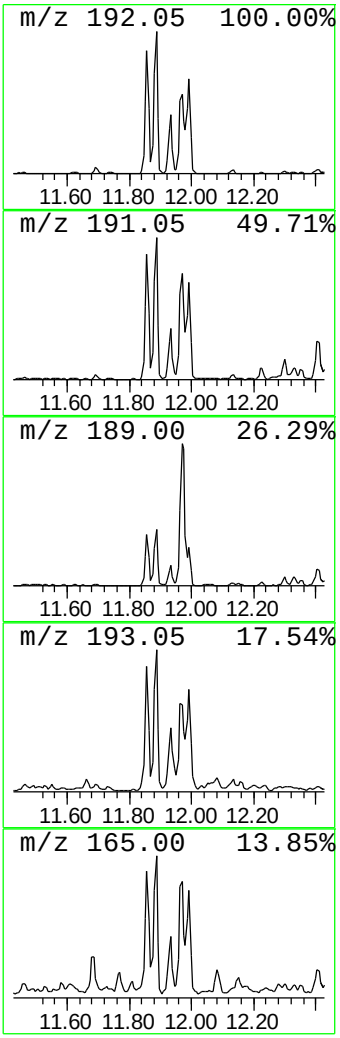
Peak Number 10 Anthracene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	9.94 ng	816691	Phenanthrene-d10	11.36

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	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94





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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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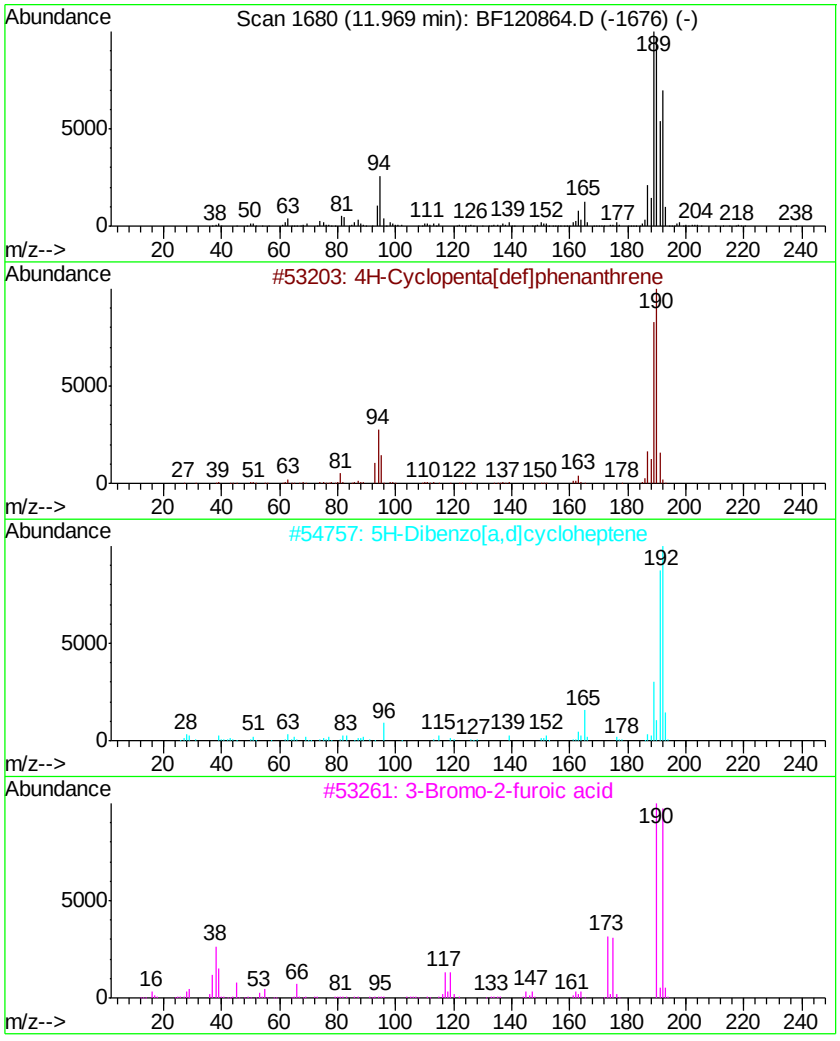
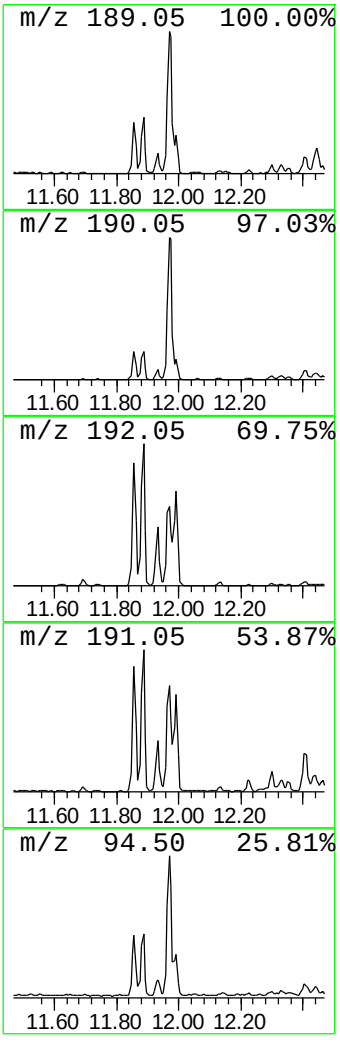
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	40.62 ng	3338220	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
3	3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	27
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	25
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	25





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Instrument : BNA_F
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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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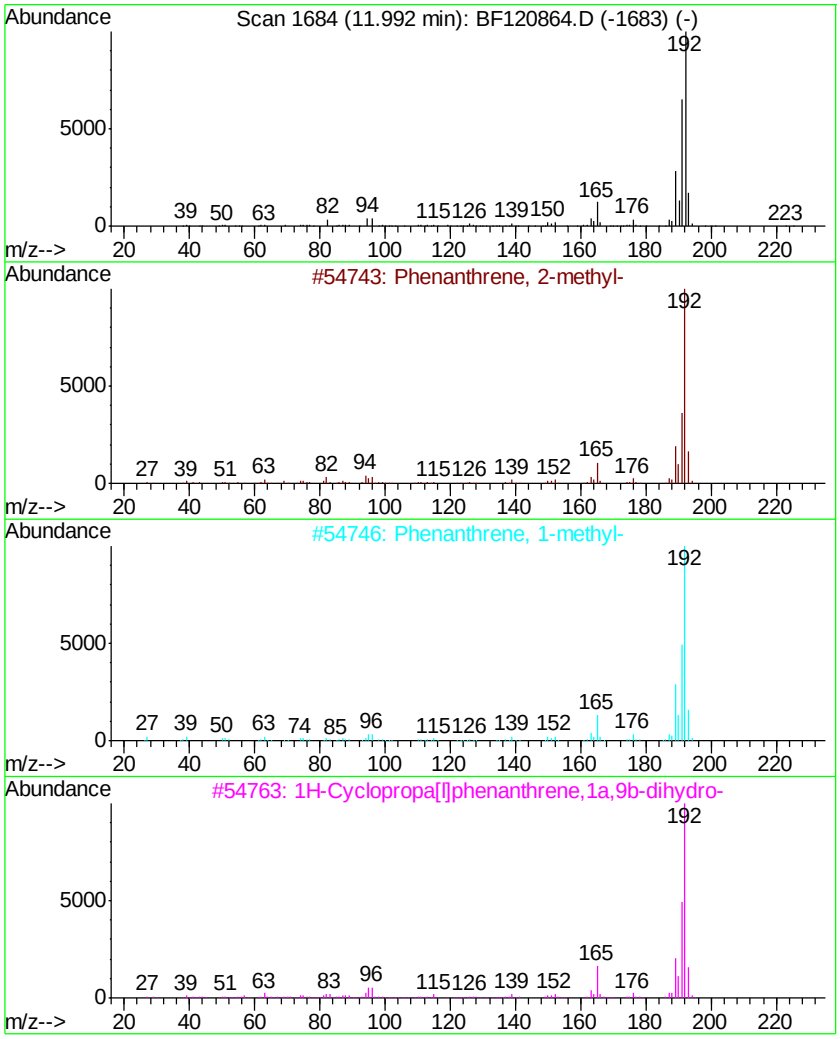
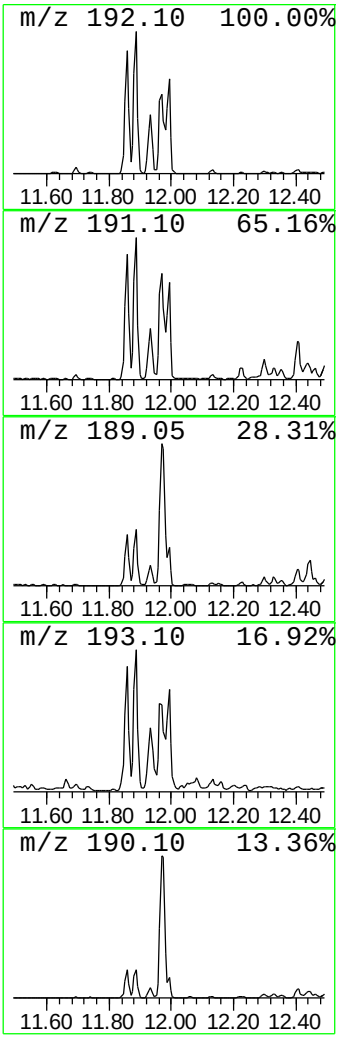
Peak Number 12 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	9.13 ng	750325	Phenanthrene-d10	11.36

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





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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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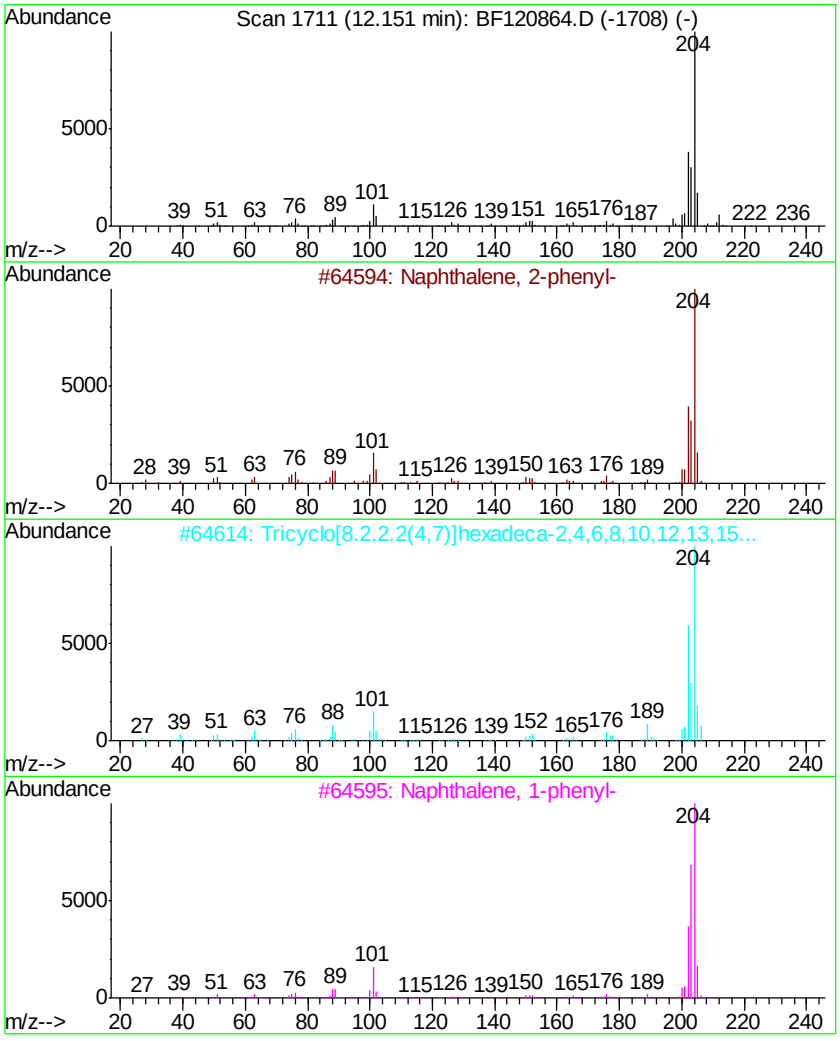
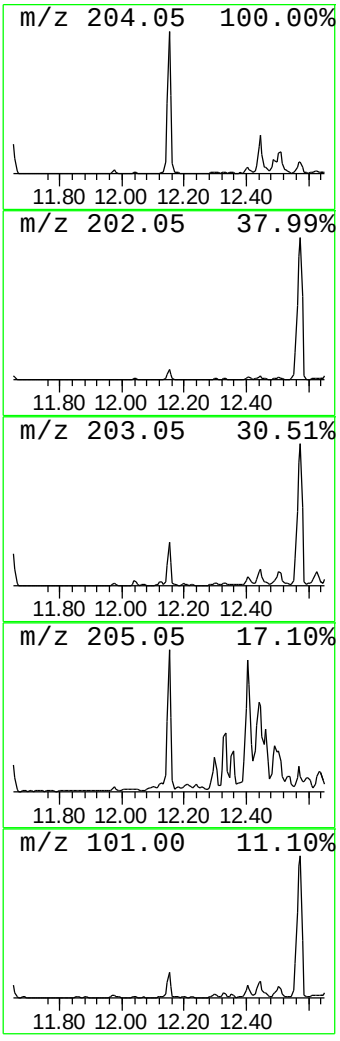
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	9.55 ng	785310	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	52
5	Levamisole	204	C11H12N2S	014769-73-4	52





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

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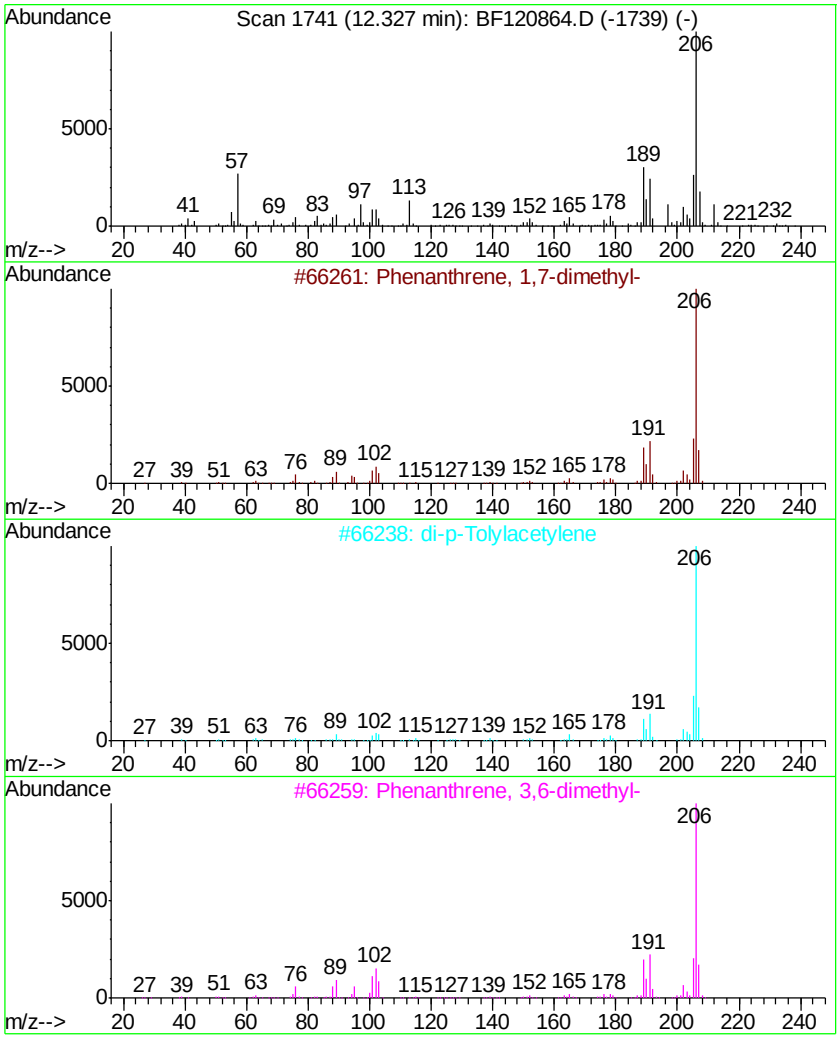
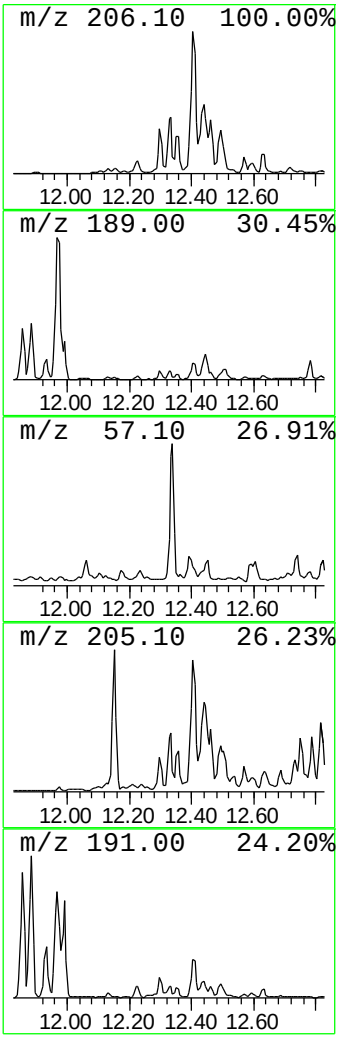
Peak Number 14 Phenanthrene, 1,7-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	6.43 ng	528530	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	70
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	53
4	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	53
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	49





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ClientSampleId : CL-02-070920

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

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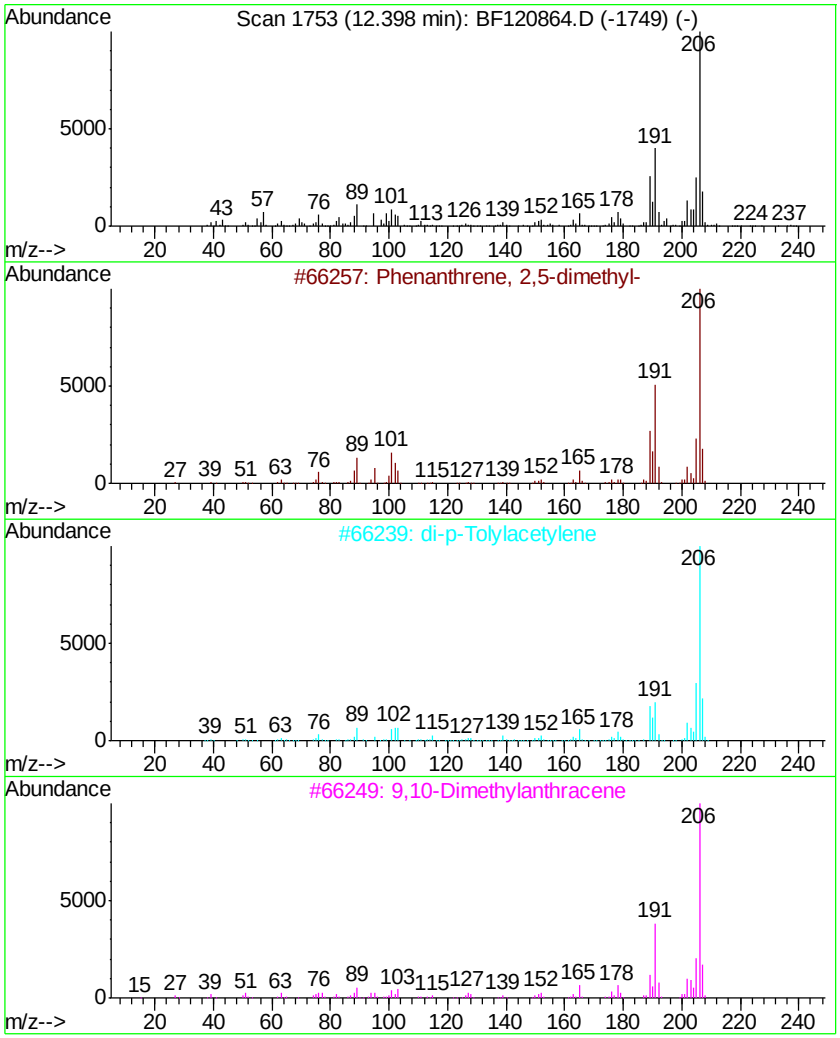
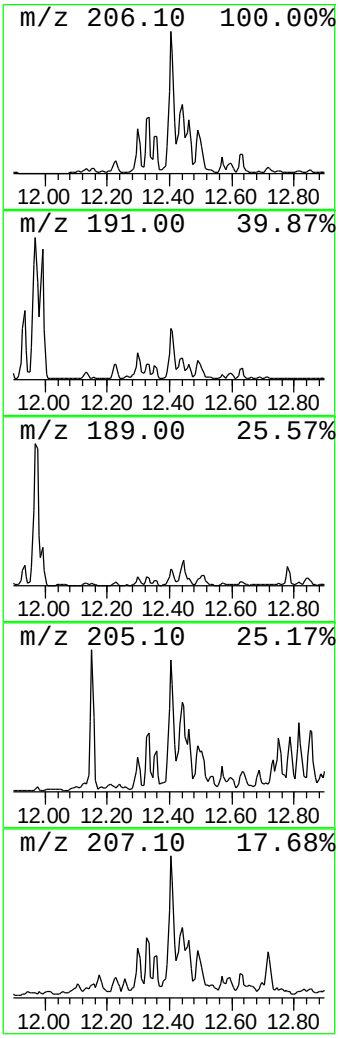
Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	14.93 ng	1227380	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





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

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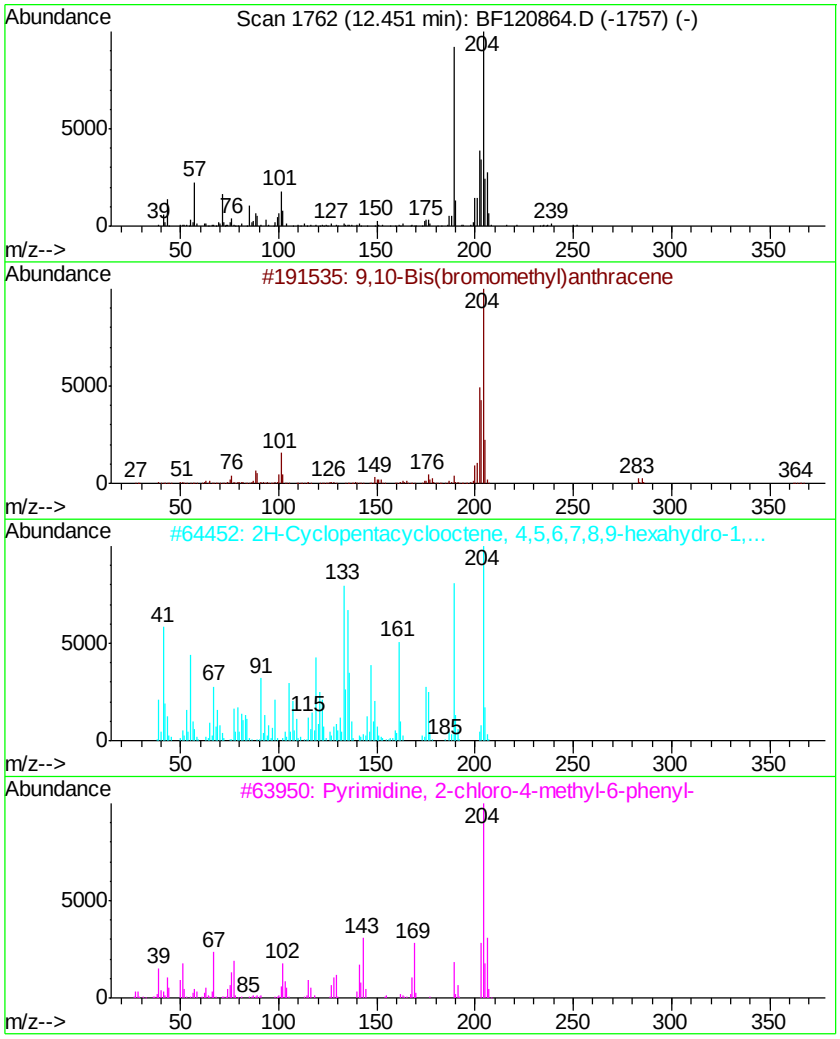
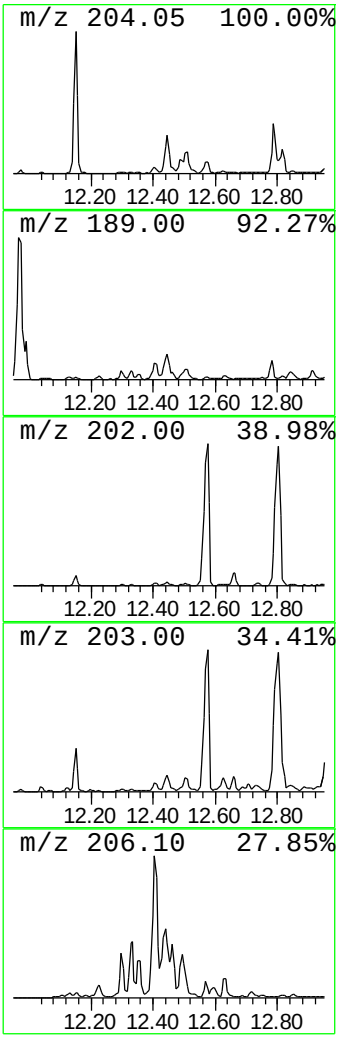
Peak Number 16 unknown12.45 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	13.20 ng	1085120	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
2	2H-Cyclopentacyclooctene, 4,5,6,...	204	C15H24	1000221-85-8	43
3	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	38
4	6-Phenylbenzocycloheptен-7-one	232	C17H12O	093327-56-1	38
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38





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Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.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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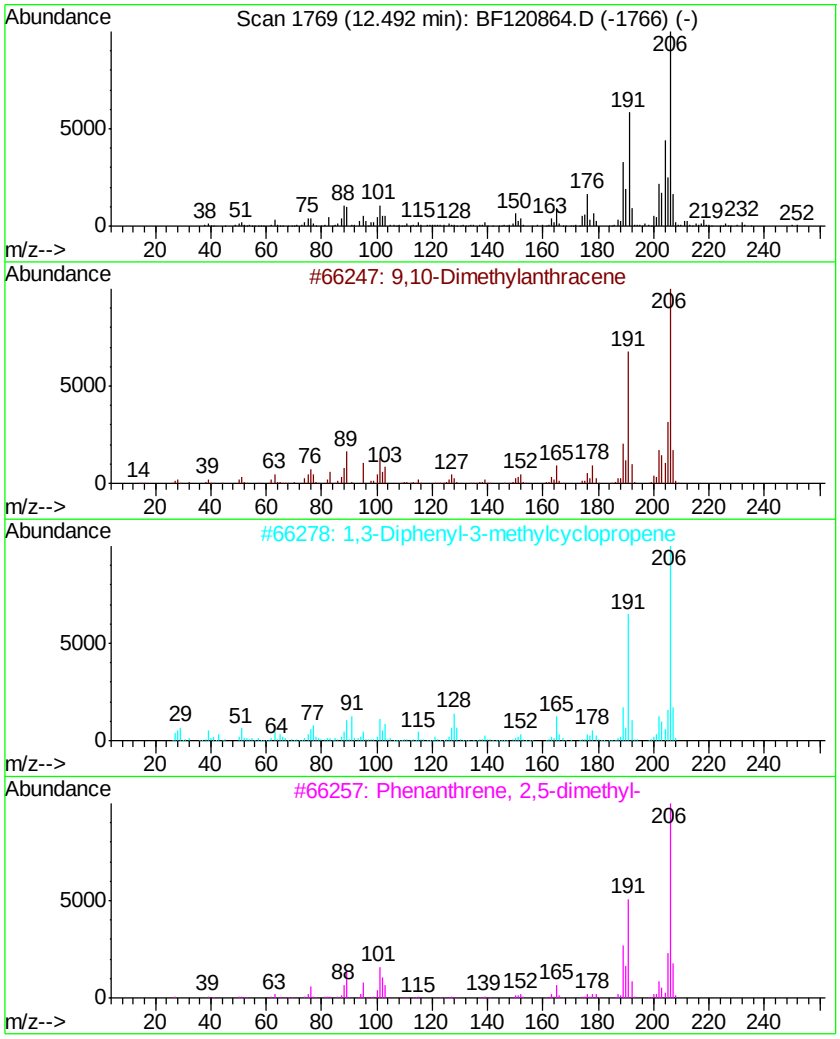
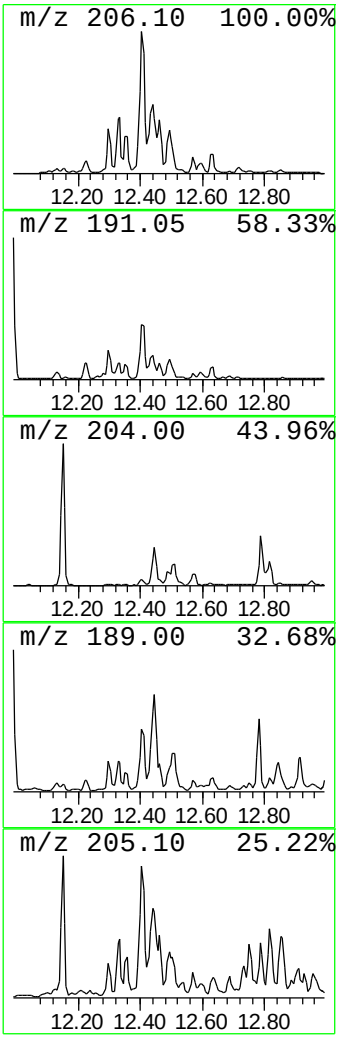
Peak Number 17 9,10-Dimethylanthracene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	7.43 ng	611091	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	92
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	91
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	89
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	86
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.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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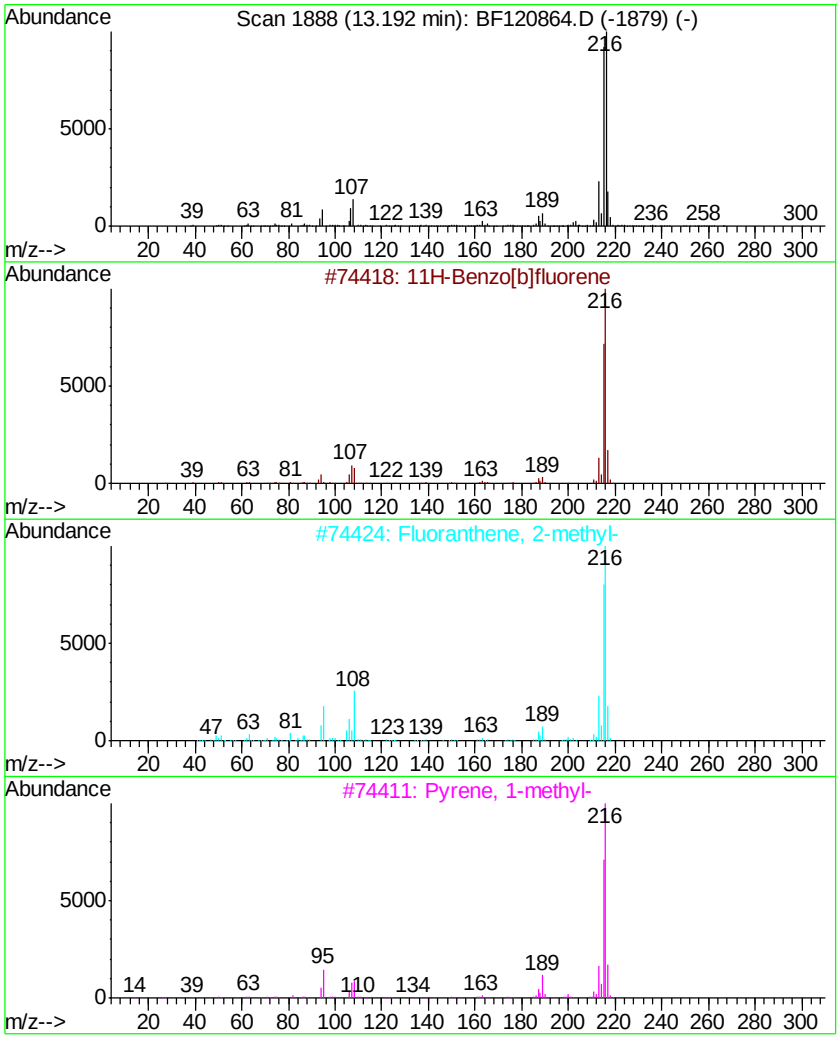
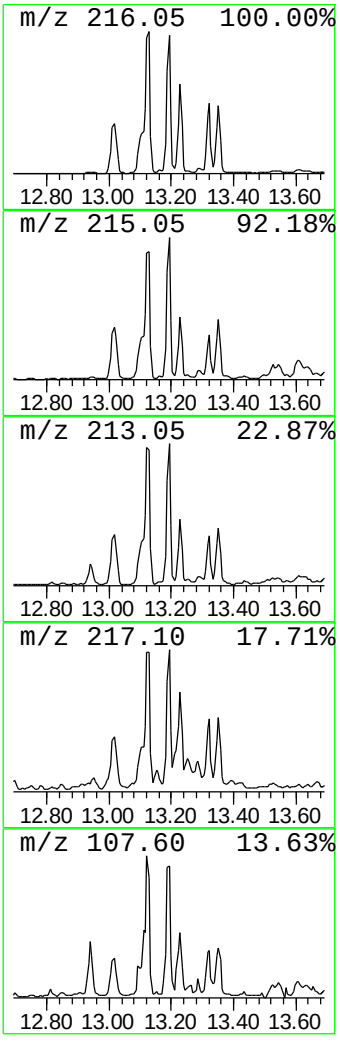
Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	6.40 ng	1517030	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.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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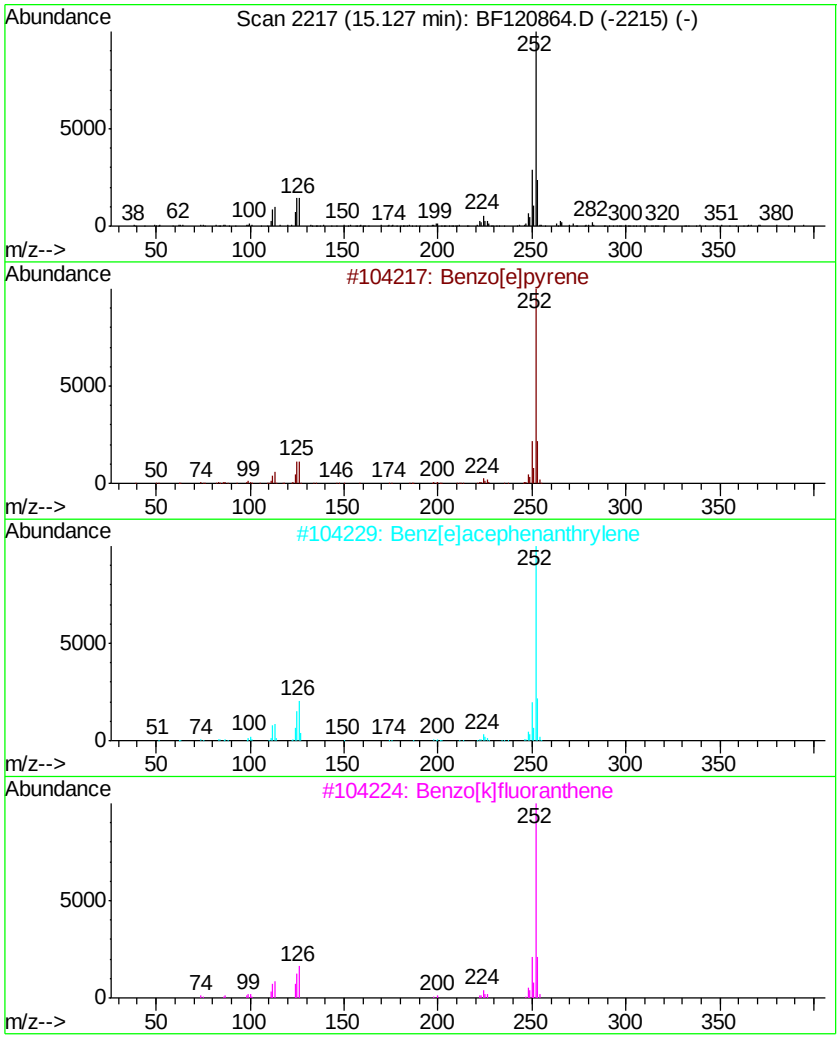
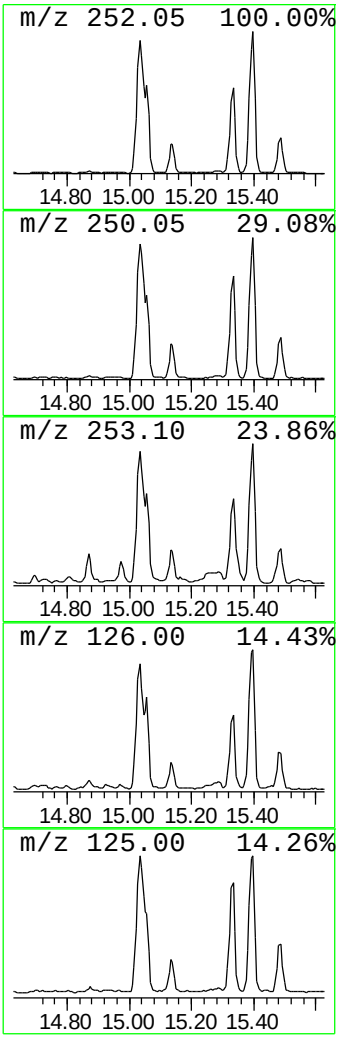
Peak Number 19 Benzo[e]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	6.96 ng	464920	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071420\
Data File : BF120864.D
Acq On : 14 Jul 2020 16:48
Operator : JU/CG
Sample : L3181-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-070920

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF070220.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
Naphthalene, 1,3-...	9.45	10.6	ng	1087040	3	9.87	2059660	20.0
Naphthalene, 2,3-...	9.53	12.9	ng	1327730	3	9.87	2059660	20.0
Naphthalene, 1,7-...	9.65	6.9	ng	708955	3	9.87	2059660	20.0
9H-Fluorene, 2-me...	10.96	11.9	ng	976056	4	11.36	1643830	20.0
9H-Fluorene, 3-me...	10.99	7.0	ng	578907	4	11.36	1643830	20.0
Dibenzothiophene	11.25	12.6	ng	1035050	4	11.36	1643830	20.0
1-Methyldibenzoth...	11.68	6.8	ng	562926	4	11.36	1643830	20.0
Anthracene, 2-met...	11.86	21.0	ng	1723610	4	11.36	1643830	20.0
Phenanthrene, 1-m...	11.89	24.2	ng	1987330	4	11.36	1643830	20.0
Anthracene, 1-met...	11.93	9.9	ng	816691	4	11.36	1643830	20.0
4H-Cyclopenta[def...	11.97	40.6	ng	3338220	4	11.36	1643830	20.0
1H-Cyclopropa[l]p...	11.99	9.1	ng	750325	4	11.36	1643830	20.0
Naphthalene, 2-ph...	12.15	9.6	ng	785310	4	11.36	1643830	20.0
Phenanthrene, 1,7...	12.33	6.4	ng	528530	4	11.36	1643830	20.0
Phenanthrene, 2,5...	12.40	14.9	ng	1227380	4	11.36	1643830	20.0
unknown12.45	12.45	13.2	ng	1085120	4	11.36	1643830	20.0
9,10-Dimethylanth...	12.49	7.4	ng	611091	4	11.36	1643830	20.0
11H-Benzo[b]fluorene	13.19	6.4	ng	1517030	5	14.00	4739190	20.0
Benzo[e]pyrene	15.13	7.0	ng	464920	6	15.46	1336710	20.0