LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

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-BF061918.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	5.149	475	478	487	rBV	64783	70508	2.18%	0.160%
2	5.566	546	549	569	rBB	496893	510417	15.81%	1.160%
3	6.572	717	720	737	rBV	533332	543992	16.85%	1.237%
4	6.707	739	743	748	rBV	617109	548716	17.00%	1.247%
5	6.931	777	781	787	rBV	395225	360308	11.16%	0.819%
6	7.084	803	807	817	rBB	522005	437799	13.56%	0.995%
7	7.495	873	877	886	rBV	378346	346651	10.74%	0.788%
8	8.213	995	999	1001	rBV	572453	487518	15.10%	1.108%
9	8.237	1001	1003	1009	rVB	421004	324722	10.06%	0.738%
10	8.931	1117	1121	1128	rBV	198256	164415	5.09%	0.374%
11	9.031	1133	1138	1148	rVB	136405	120123	3.72%	0.273%
12	9.289	1178	1182	1185	rBV	804665	660654	20.46%	1.502%
13	9.560	1224	1228	1232	rBV	57419	76066	2.36%	0.173%
14	9.631	1236	1240	1243	rBV	100981	101697	3.15%	0.231%
15	9.660	1243	1245	1247	rVV	75037	58985	1.83%	0.134%
16	9.684	1247	1249	1253	rVB	131375	95105	2.95%	0.216%
17	9.748	1256	1260	1267	rBV	51491	61994	1.92%	0.141%
18	9.978	1296	1299	1302	rVV	616861	520425	16.12%	1.183%
19	10.013	1302	1305	1308	rVB	429020	363988	11.27%	0.827%
20	10.184	1329	1334	1337	rVV	461964	400963	12.42%	0.911%
21	10.531	1389	1393	1396	rBV	486103	399385	12.37%	0.908%
22	10.683	1417	1419	1423	rVB	163948	129441	4.01%	0.294%
23	10.778	1430	1435	1439	rBV2	492163	536372	16.61%	1.219%
24	11.078	1479	1486	1489	rBV2	101723	139766	4.33%	0.318%
25	11.201	1503	1507	1509	rBV3	65829	77131	2.39%	0.175%
26	11.225	1509	1511	1513	rVV2	62973	64300	1.99%	0.146%
27	11.283	1517	1521	1524	rVV	250013	228120	7.07%	0.519%
28	11.319	1524	1527	1533	rVV3	77008	112573	3.49%	0.256%
29	11.372	1533	1536	1541	rVB	282900	243165	7.53%	0.553%
30	11.478	1550	1554	1556	rBV	447161	520920	16.14%	1.184%
31	11.513	1556	1560	1563	rVV	2349633	2898017	89.76%	6.588%
32	11.560	1563	1568	1571	rVV	1069409	972020	30.11%	2.210%
33	11.589	1571	1573	1577	rVB	99342	88827	2.75%	0.202%
34	11.713	1588	1594	1597	rBV2	472216	497013	15.39%	1.130%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.766	1601	1603	1605	rVV	86803	67143	2.08%	0.153%
36	11.813	1608	1611	1615	rVB3	74256	83429	2.58%	0.190%
37	11.883	1621	1623	1630	rVB3	36495	58475	1.81%	0.133%
38	11.977	1635	1639	1642	rBV	425631	377442	11.69%	0.858%
39	12.007	1642	1644	1648	rVB	540415	490494	15.19%	1.115%
40	12.060	1649	1653	1655	rBV	220923	196518	6.09%	0.447%
41	12.095	1655	1659	1661	rBV2	549517	599579	18.57%	1.363%
42	12.113	1661	1662	1666	rVB	254771	199475	6.18%	0.453%
43	12.160	1666	1670	1673	rBV3	53896	60231	1.87%	0.137%
44	12.272	1686	1689	1693	rVB	359235	296280	9.18%	0.674%
45	12.313	1693	1696	1699	rVV	231521	193808	6.00%	0.441%
46	12.425	1711	1715	1718	rBV2	83685	94060	2.91%	0.214%
47	12.483	1722	1725	1727	rVB	76473	71675	2.22%	0.163%
48	12.530	1727	1733	1736	rBV	194755	228969	7.09%	0.520%
49	12.572	1737	1740	1745	rVB3	94662	154683	4.79%	0.352%
50	12.636	1745	1751	1754	rVB2	157451	209143	6.48%	0.475%
51	12.713	1758	1764	1767	rBV	2293138	2895241	89.68%	6.582%
52	12.766	1770	1773	1776	rVB2	102317	105139	3.26%	0.239%
53	12.854	1782	1788	1790	rBV3	168161	192207	5.95%	0.437%
54	12.942	1795	1803	1806	rBV2	2074399	3228462	100.00%	7.339%
55	12.977	1806	1809	1813	rVB2	208349	211912	6.56%	0.482%
56	13.060	1813	1823	1826	rBV2	706210	866883	26.85%	1.971%
57	13.095	1826	1829	1833	rVB	220655	216327	6.70%	0.492%
58	13.154	1833	1839	1842	rBV2	219127	396343	12.28%	0.901%
59	13.189	1842	1845	1849	rBV	88667	98456	3.05%	0.224%
60	13.242	1849	1854	1855	rBV2	176355	269027	8.33%	0.612%
61	13.260	1855	1857	1860	rVB	406030	339895	10.53%	0.773%
62	13.324	1865	1868	1870	rBV	178044	142908	4.43%	0.325%
63	13.366	1870	1875	1878	rBV2	281720	348544	10.80%	0.792%
64	13.460	1888	1891	1893	rBV	164037	137403	4.26%	0.312%
65	13.489	1893	1896	1899	rBV2	172109	163269	5.06%	0.371%
66	13.777	1942	1945	1950	rVB	328153	299644	9.28%	0.681%
67	13.883	1958	1963	1965	rBV	355152	377066	11.68%	0.857%
68	13.907	1965	1967	1970	rVB	321233	266192	8.25%	0.605%
69	13.942	1970	1973	1979	rBV3	313882	453282	14.04%	1.030%
70	13.989	1979	1981	1987	rVB	342691	315883	9.78%	0.718%
71	14.054	1987	1992	1998	rBV	100574	199884	6.19%	0.454%

LSC Area Percent Report

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Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.136	1998	2006	2010	rBV2	1639293	2915026	90.29%	6.627%
73	14.171	2010	2012	2015	rVB	1382142	1278637	39.61%	2.907%
74	14.248	2022	2025	2030	rBV	247067	235191	7.28%	0.535%
75	14.313	2031	2036	2038	rBV5	84369	140403	4.35%	0.319%
76	14.336	2038	2040	2042	rVV	123298	106844	3.31%	0.243%
77	14.371	2042	2046	2049	rVV2	222535	259422	8.04%	0.590%
78	14.407	2049	2052	2055	rVB3	78199	86377	2.68%	0.196%
79	14.495	2064	2067	2069	rBV2	114110	135089	4.18%	0.307%
80	14.530	2070	2073	2076	rVB	378960	314839	9.75%	0.716%
81	14.566	2076	2079	2083	rBV	186229	152139	4.71%	0.346%
82	14.607	2083	2086	2088	rBV3	115896	120192	3.72%	0.273%
83	14.630	2088	2090	2093	rVB2	108168	104501	3.24%	0.238%
84	14.660	2093	2095	2097	rBV	150144	144735	4.48%	0.329%
85	14.730	2105	2107	2110	rVB2	122269	111128	3.44%	0.253%
86	14.871	2127	2131	2133	rBV2	174683	232005	7.19%	0.527%
87	14.966	2144	2147	2153	rVB2	134468	155206	4.81%	0.353%
88	15.060	2159	2163	2166	rBV	186927	211674	6.56%	0.481%
89	15.242	2187	2194	2196	rBV	1239678	2263606	70.11%	5.146%
90	15.348	2208	2212	2215	rBV	353635	382605	11.85%	0.870%
91	15.436	2223	2227	2228	rBV2	104238	131794	4.08%	0.300%
92	15.560	2243	2248	2255	rVB	799513	1170419	36.25%	2.661%
93	15.636	2255	2261	2266	rVV	1211104	1705402	52.82%	3.877%
94	15.689	2266	2270	2273	rVV	335376	470807	14.58%	1.070%
95	15.724	2273	2276	2282	rVB	433986	605384	18.75%	1.376%
96	16.383	2385	2388	2394	rVB3	76606	124825	3.87%	0.284%
97	17.295	2534	2543	2549	rVB2	497843	1081545	33.50%	2.459%
98	17.459	2566	2571	2577	rBV	138816	288223	8.93%	0.655%
99	17.530	2580	2583	2590	rVB2	94713	171018	5.30%	0.389%
100	17.783	2618	2626	2635	rVB	364173	823809	25.52%	1.873%

Sum of corrected areas: 43990312

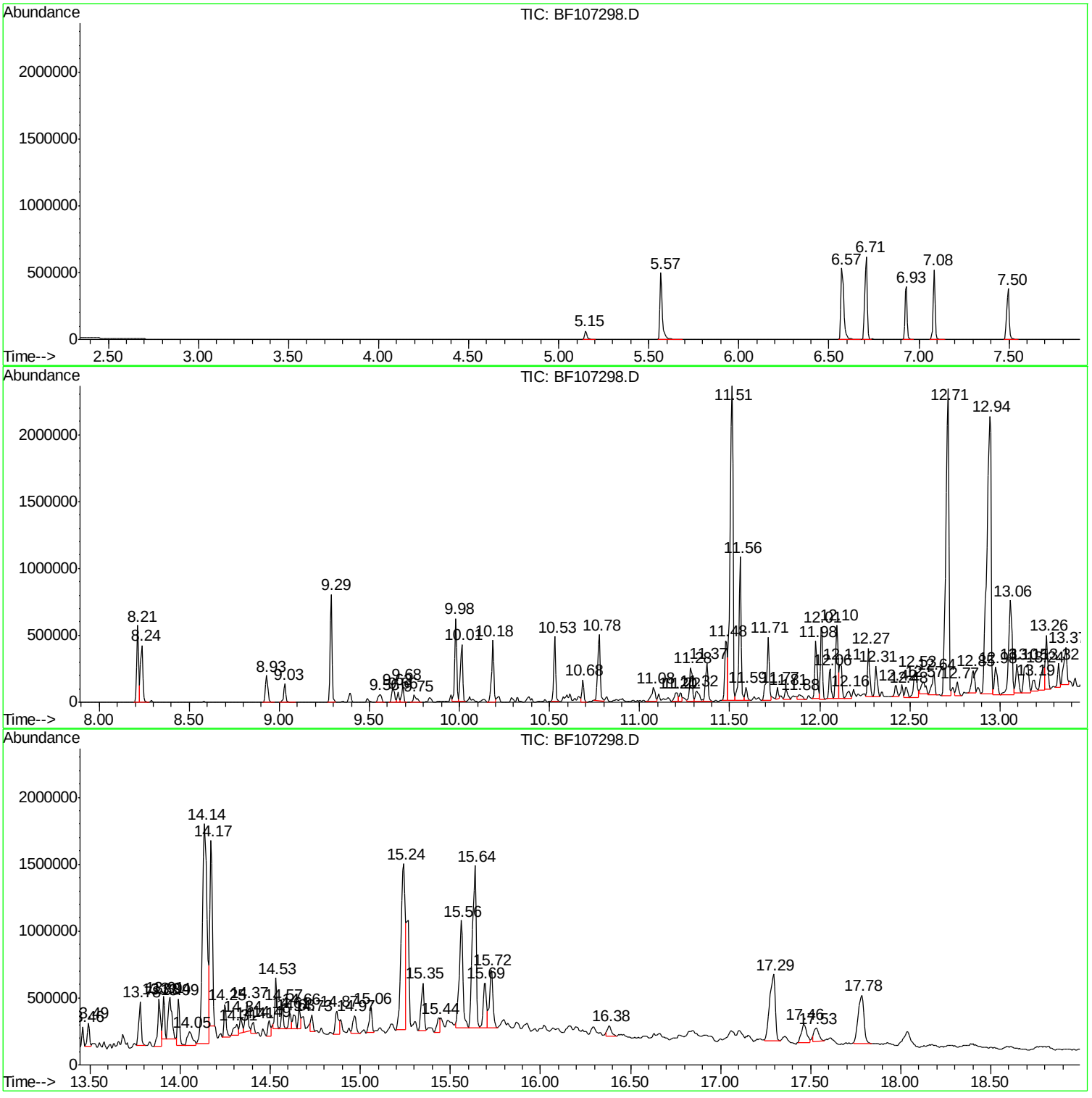
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

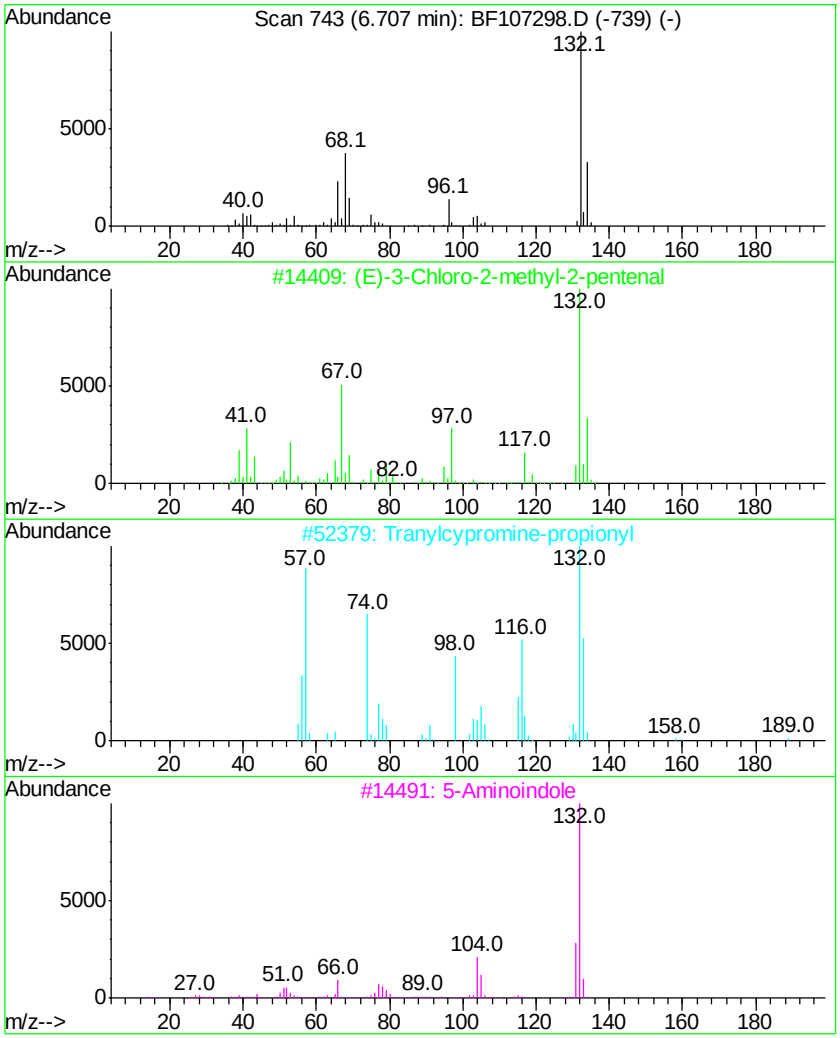
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

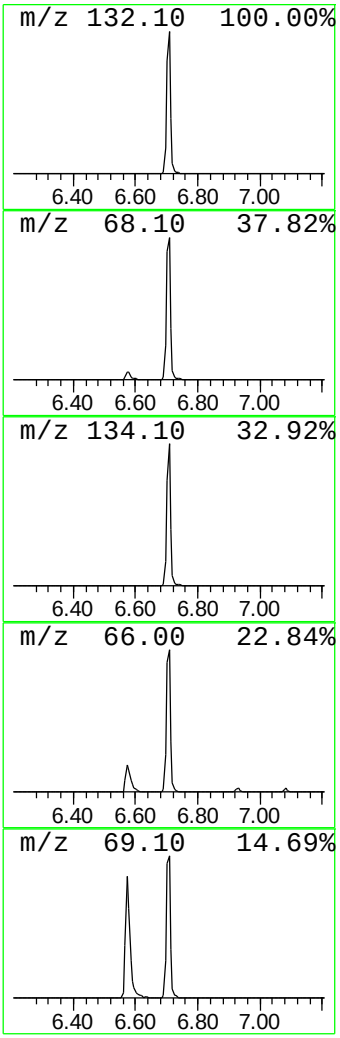
****

Peak Number 1 unknown6.71 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.71	30.46 ng	548716	1,4-Dichlorobenzene-d4	6.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

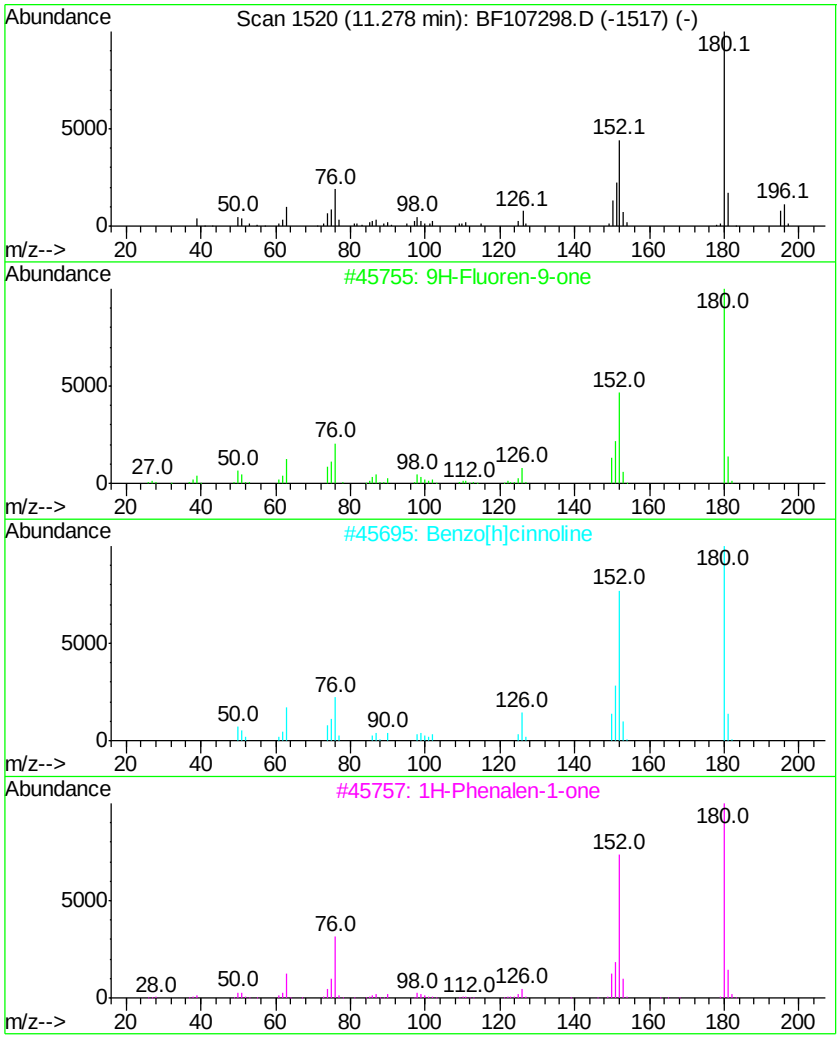
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

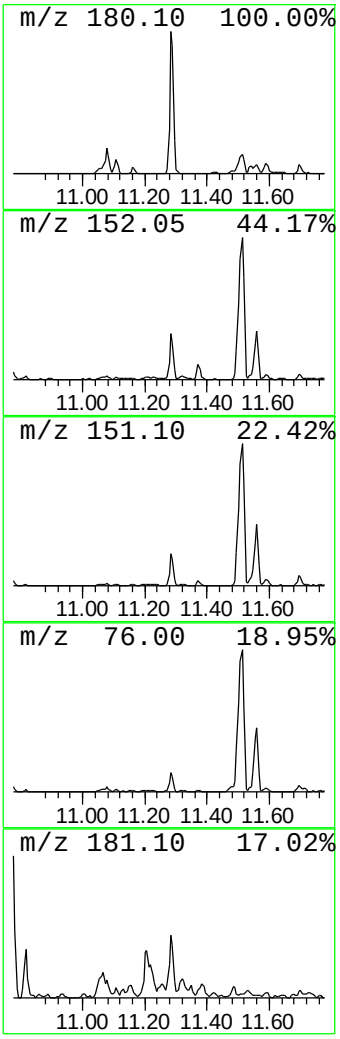
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	8.76 ng	228120	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	78
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	2-Benzothiophen-4(5H)-one, 6,7-d...	180	C10H12OS	1000338-11-9	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
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Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
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Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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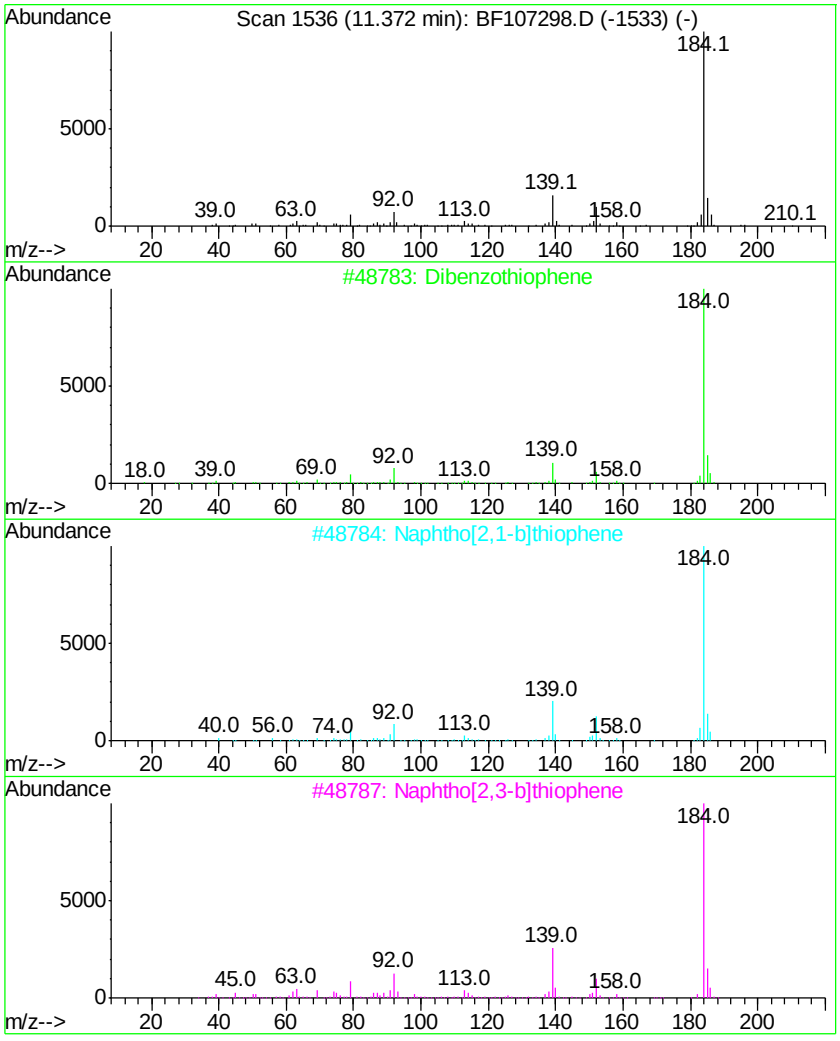
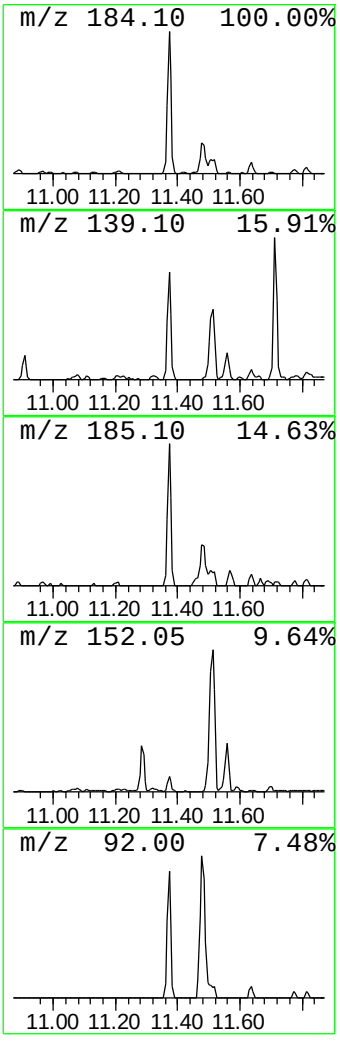
Peak Number 4 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	9.34 ng	243165	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

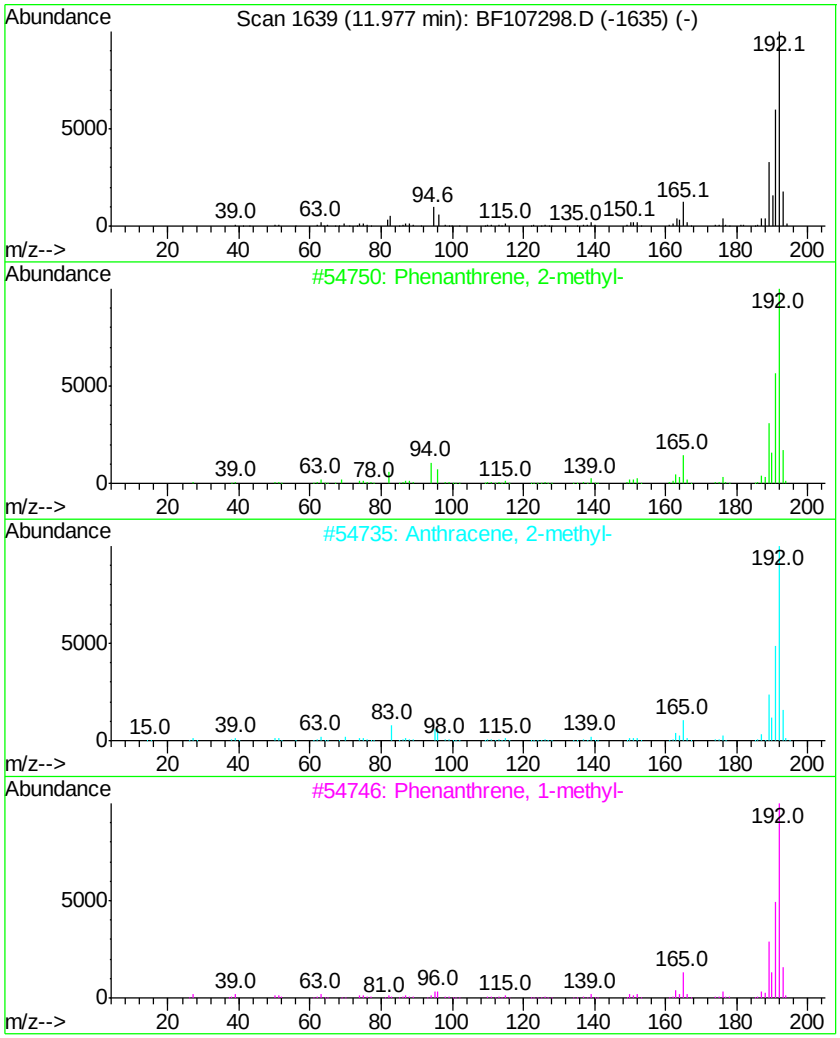
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

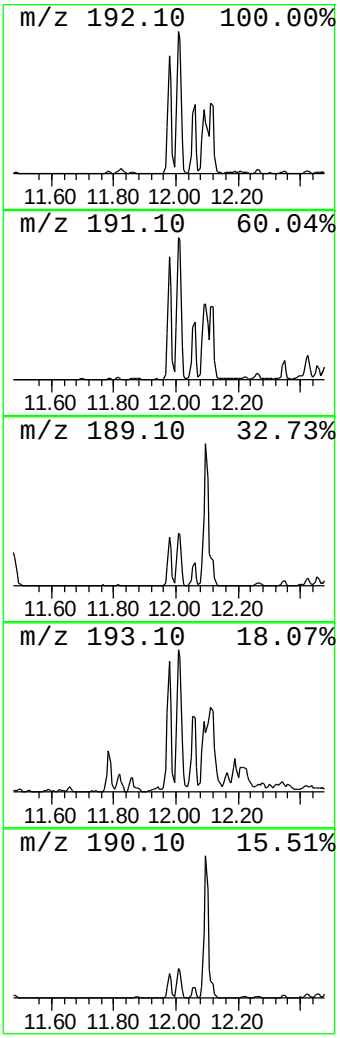
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	14.49 ng	377442	Phenanthrene-d10	11.48

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	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

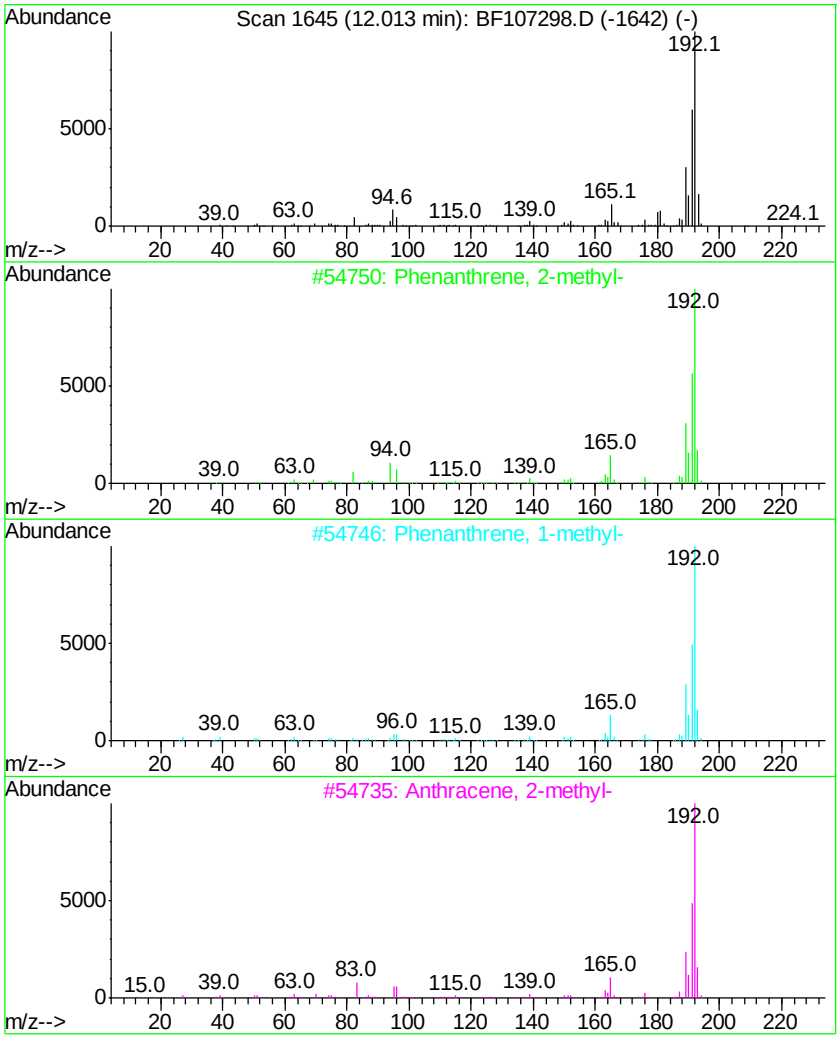
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

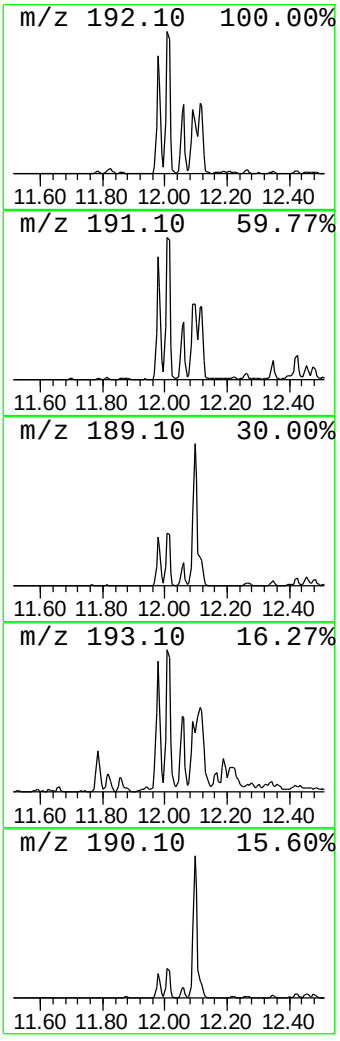
****

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	18.83 ng	490494	Phenanthrene-d10	11.48

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	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

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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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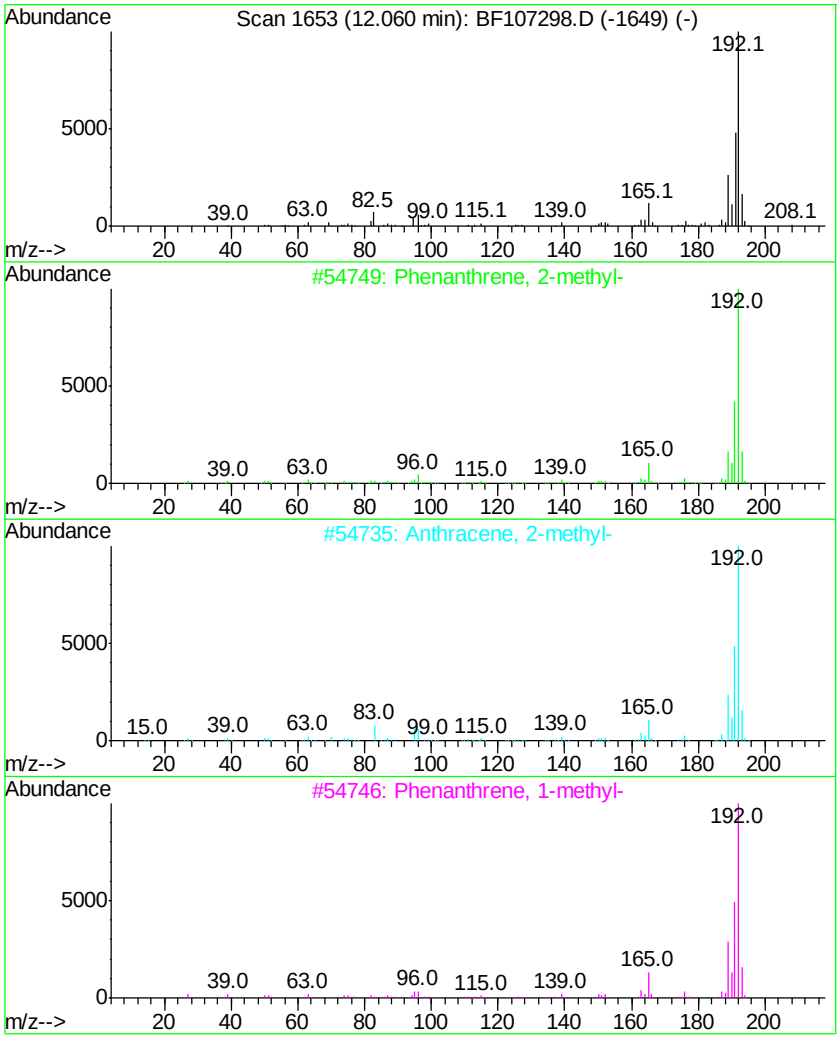
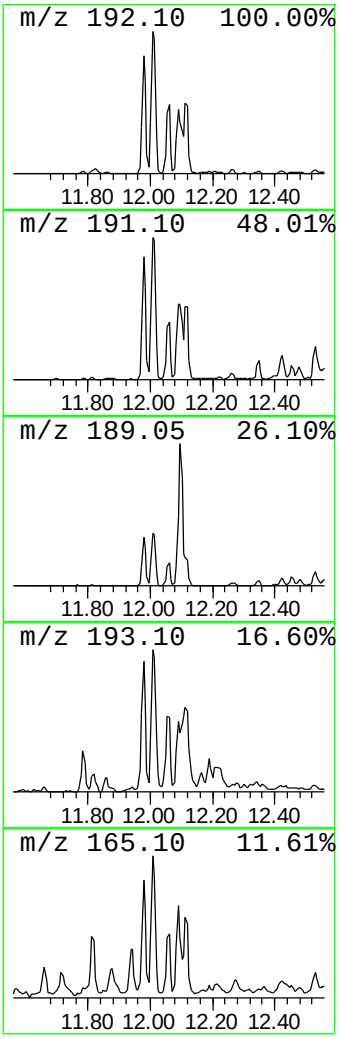
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	7.55 ng	196518	Phenanthrene-d10	11.48

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	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

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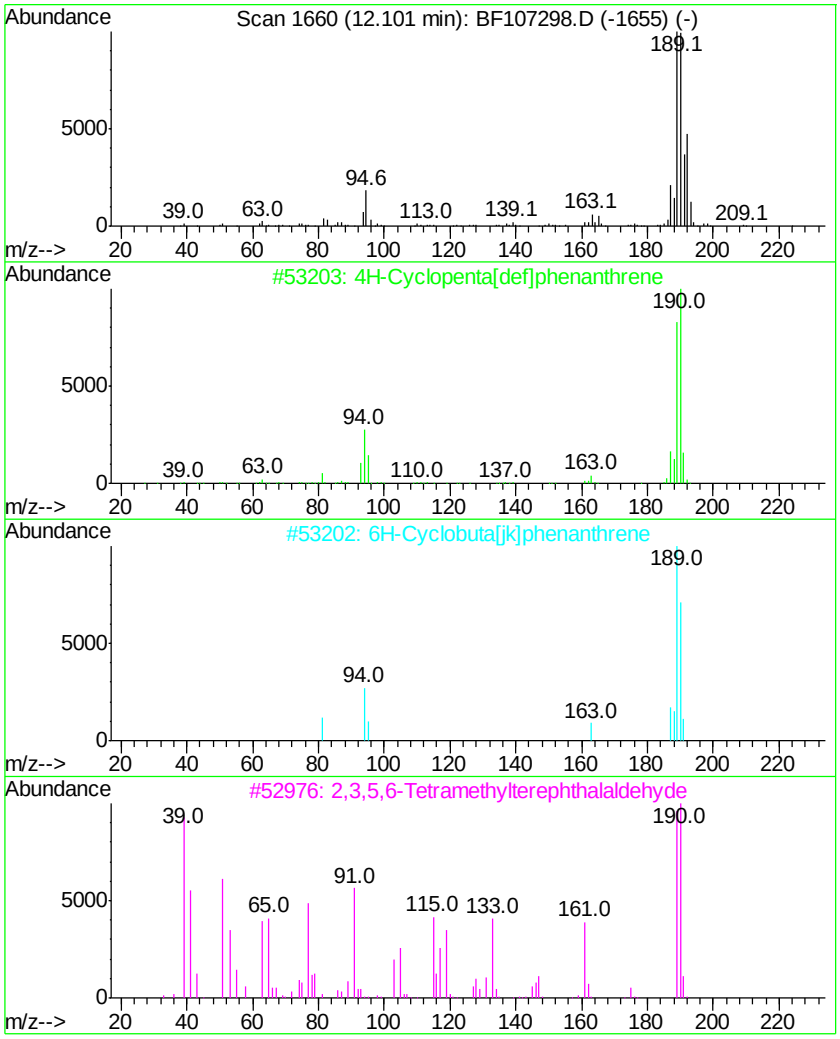
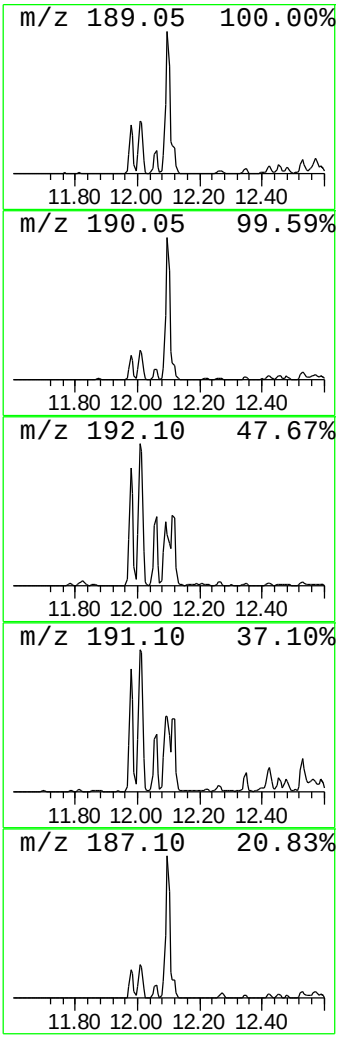
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	23.02 ng	599579	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30





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Instrument : BNA_F
ClientSampleId : EP-6-N1

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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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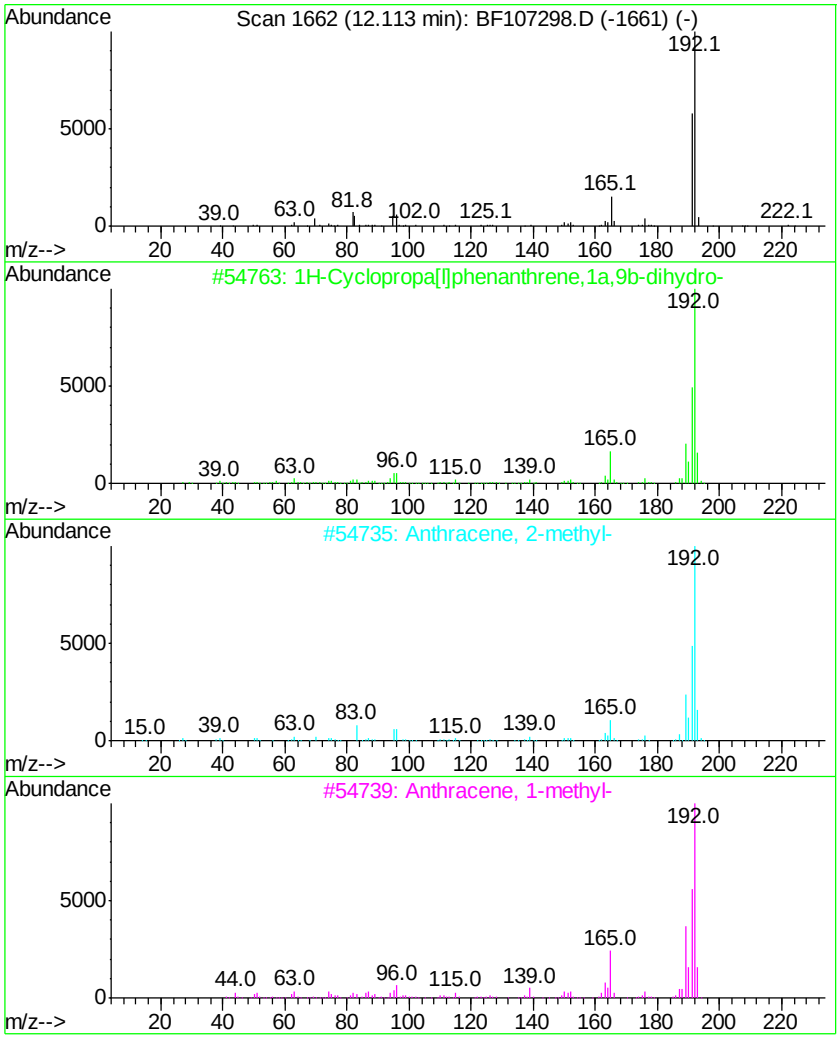
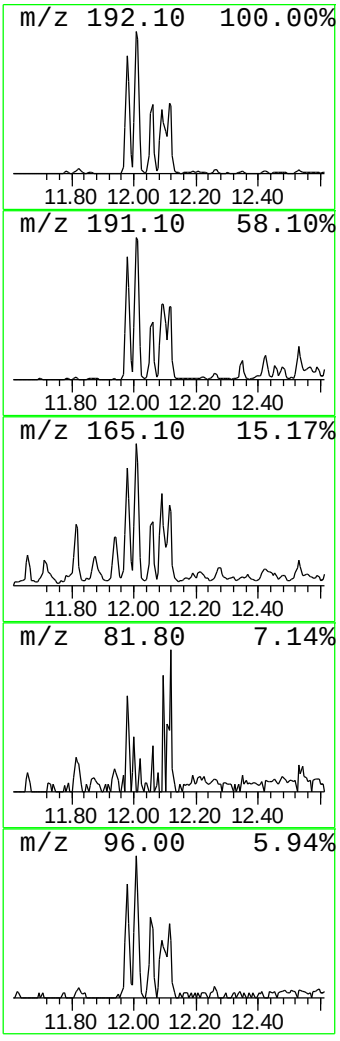
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	7.66 ng	199475	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	80





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

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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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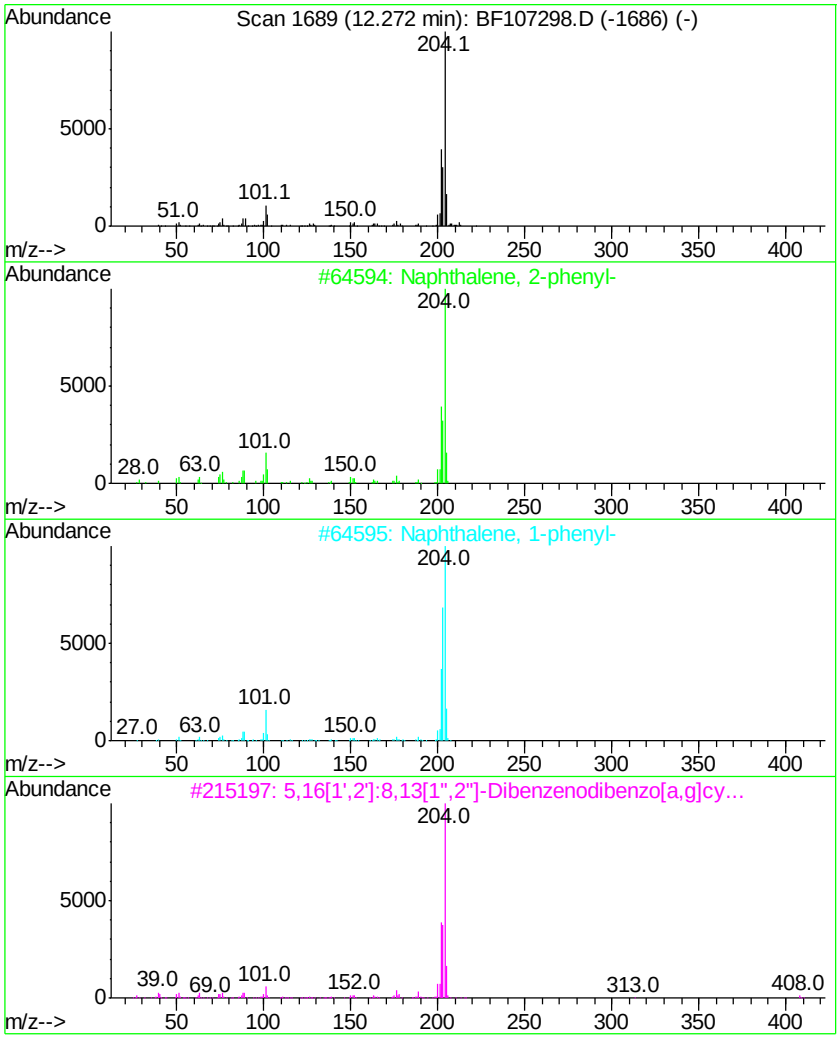
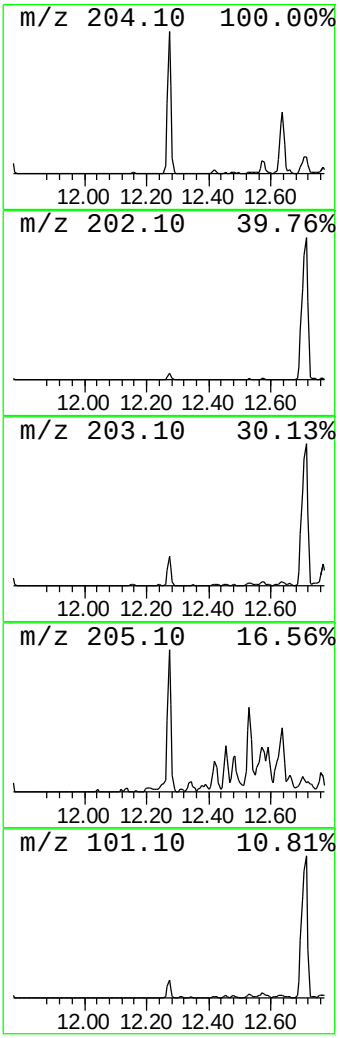
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	11.38 ng	296280	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	59
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53





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ClientSampleId : EP-6-N1

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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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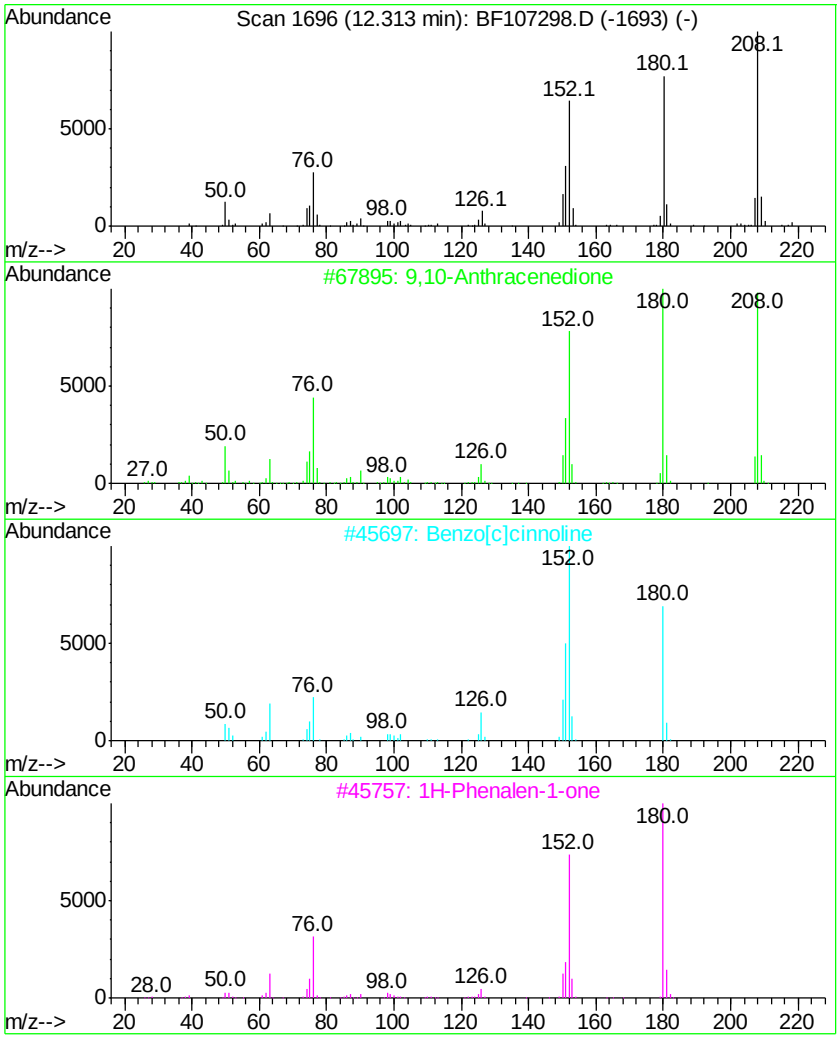
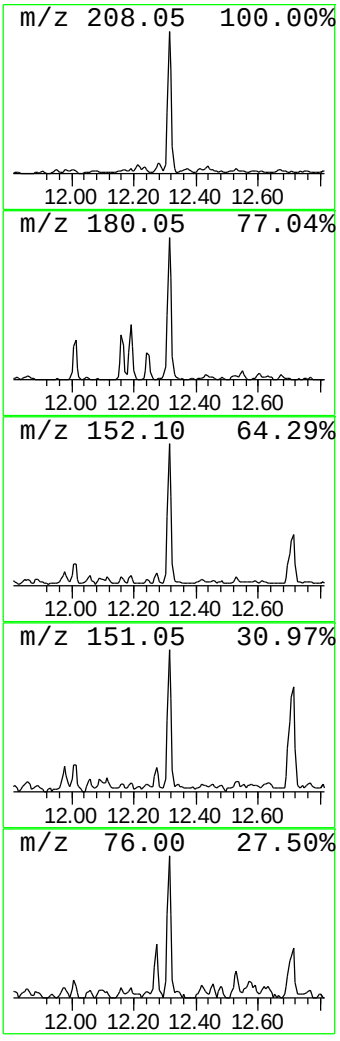
Peak Number 11 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	7.44 ng	193808	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





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ClientSampleId : EP-6-N1

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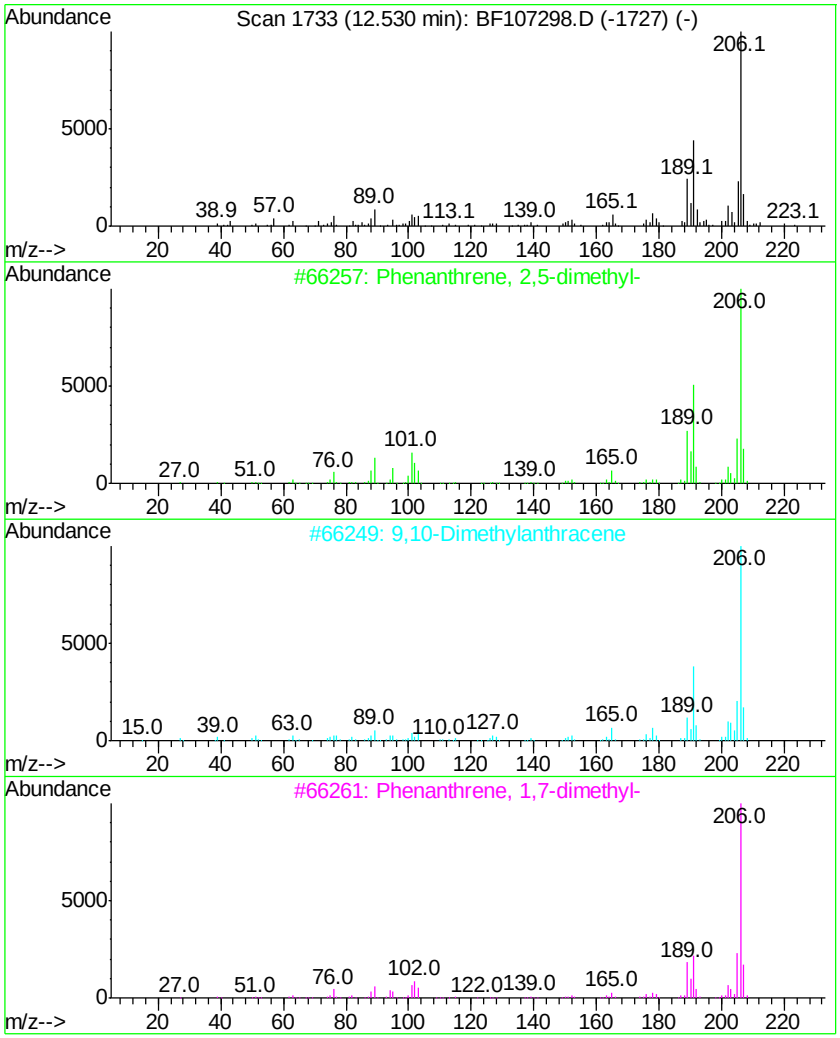
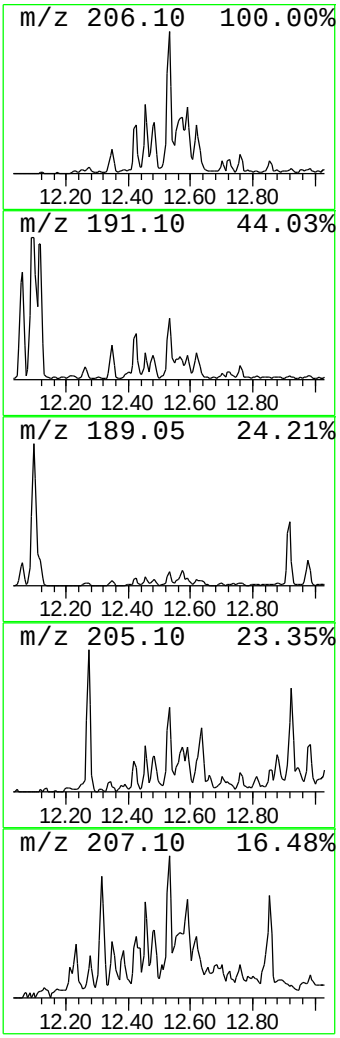
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	8.79 ng	228969	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91





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Sample : J3933-06 2X
Misc :
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Instrument : BNA_F
ClientSampleId : EP-6-N1

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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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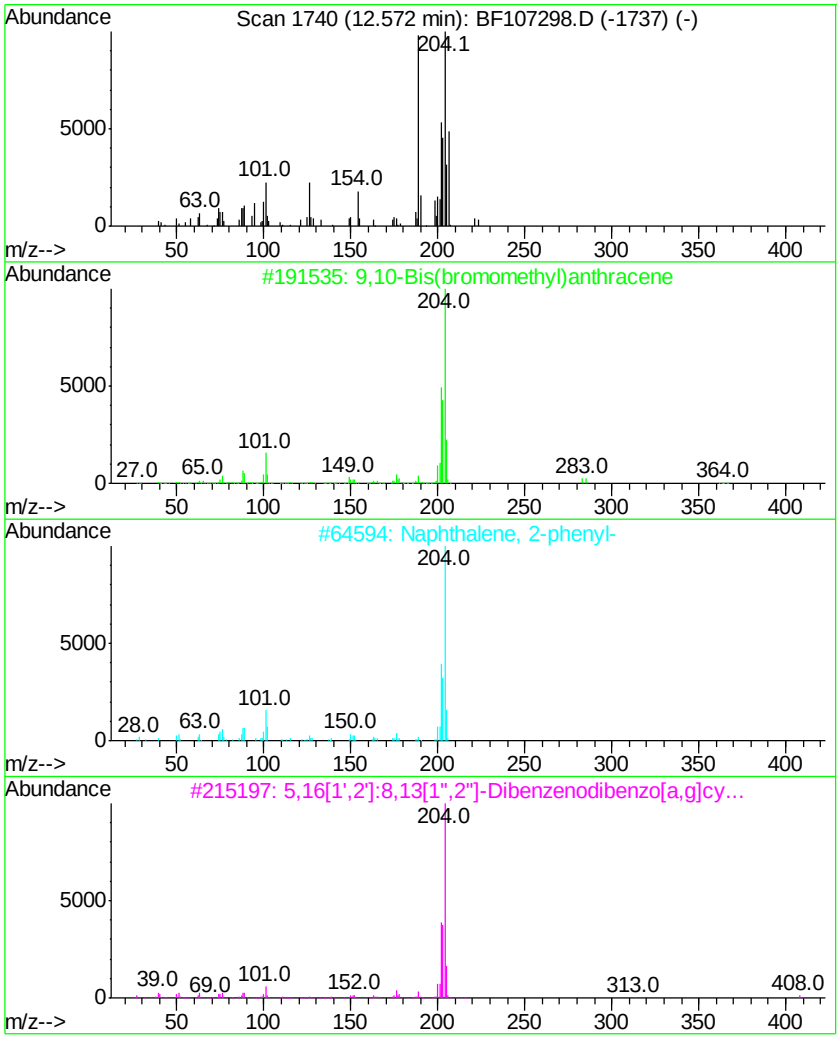
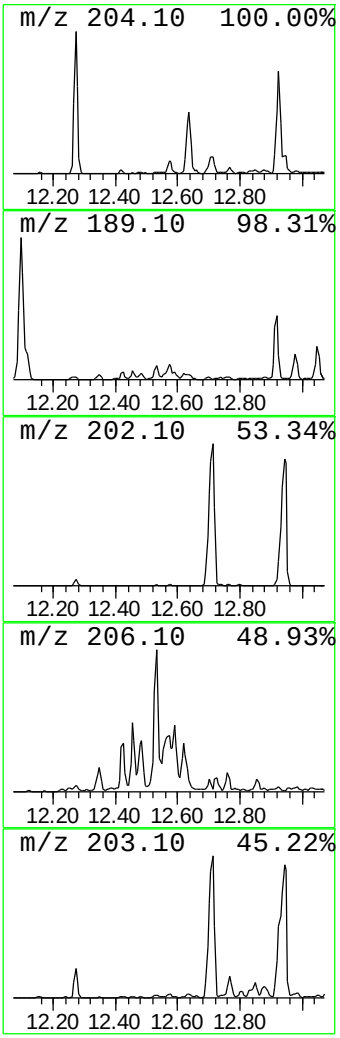
Peak Number 13 unknown12.57 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	5.94 ng	154683	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	41
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
4	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	22
5	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	18





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ClientSampleId : EP-6-N1

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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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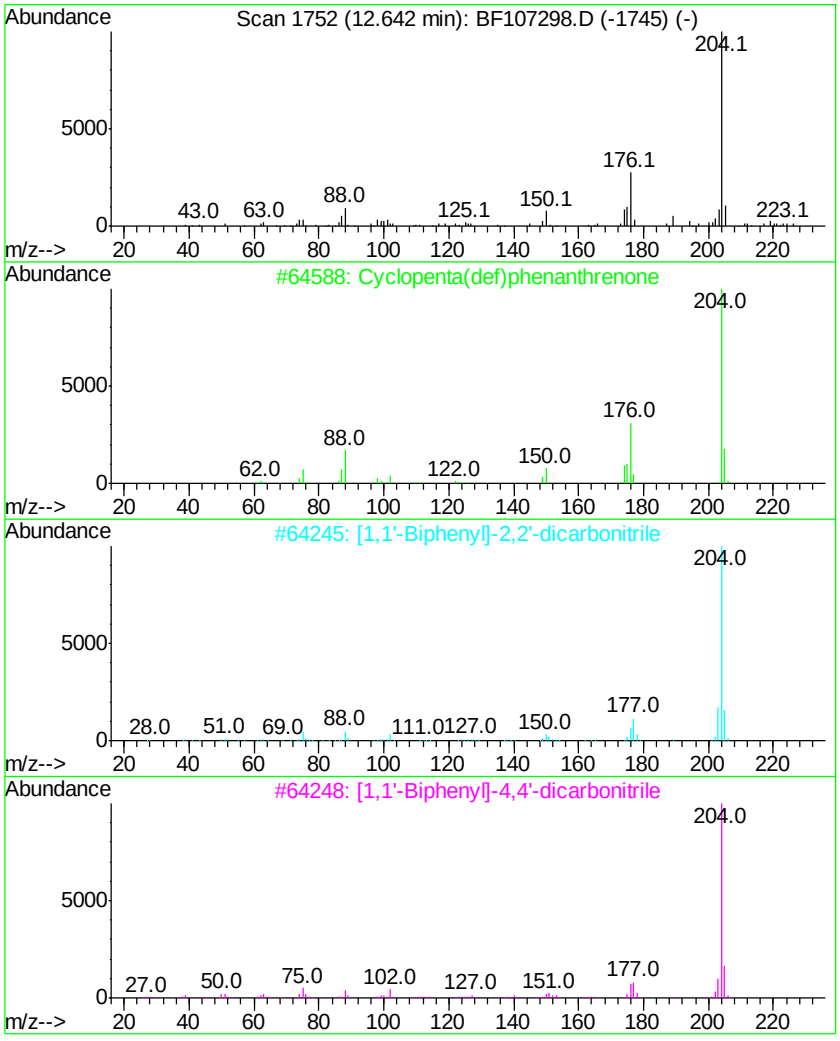
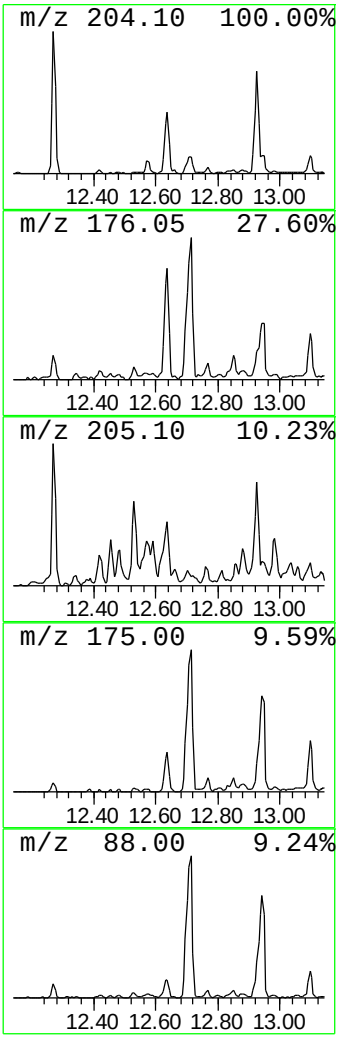
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	8.03 ng	209143	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	59
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
4	Tetracyano-p-quinodimethane	204	C12H4N4	001518-16-7	52
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	50





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Misc :
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Instrument : BNA_F
ClientSampleId : EP-6-N1

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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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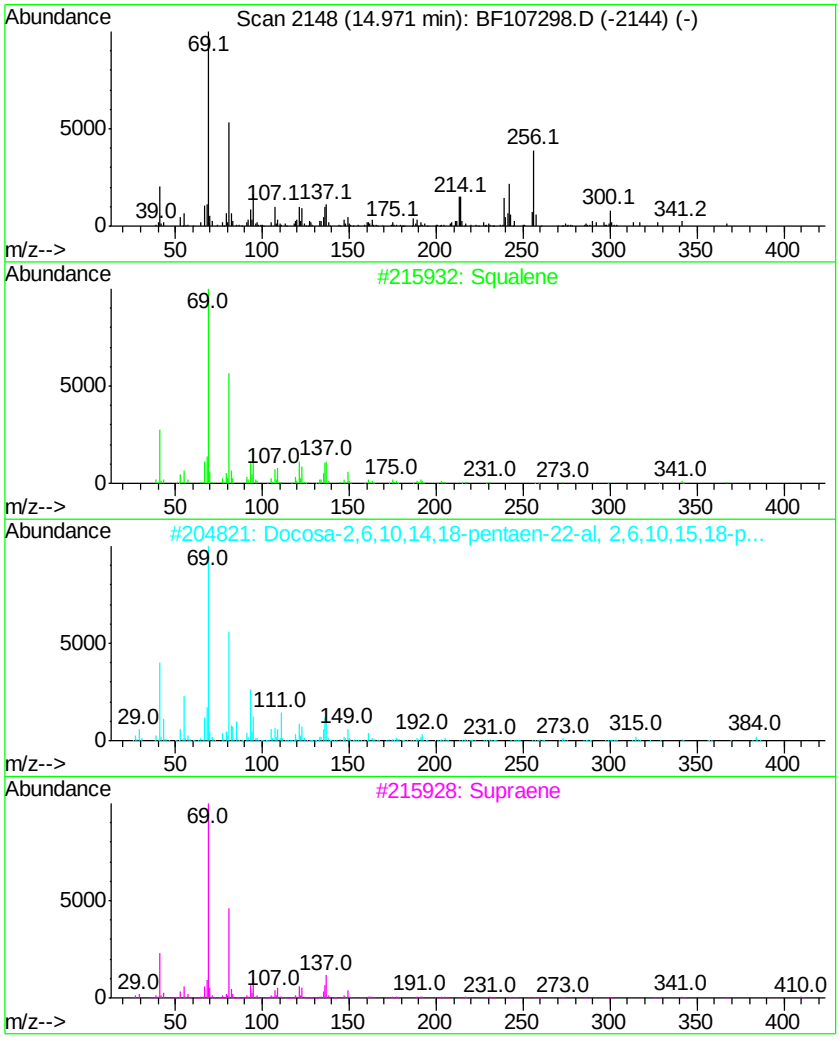
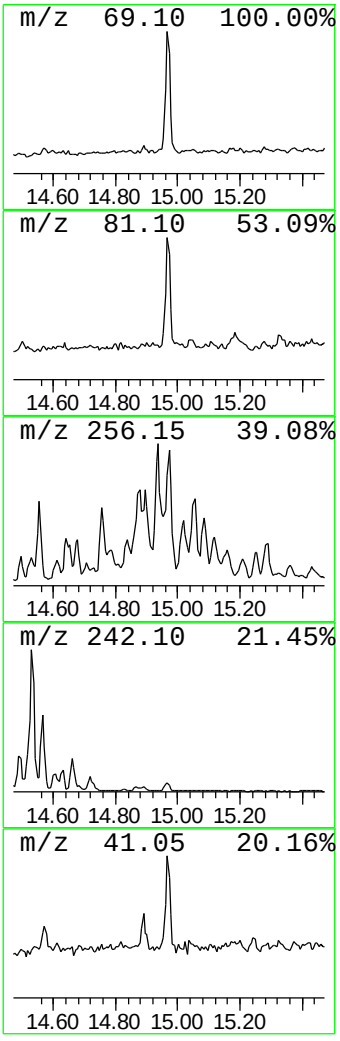
Peak Number 15 unknown14.97 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	6.59 ng	155206	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	000111-02-4	49
2	Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	43
3	Supraene	410	C30H50	007683-64-9	41
4	7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	38
5	1,6,10,14,18,22-Tetracosahexaen-...	426	C30H50O	054159-46-5	38





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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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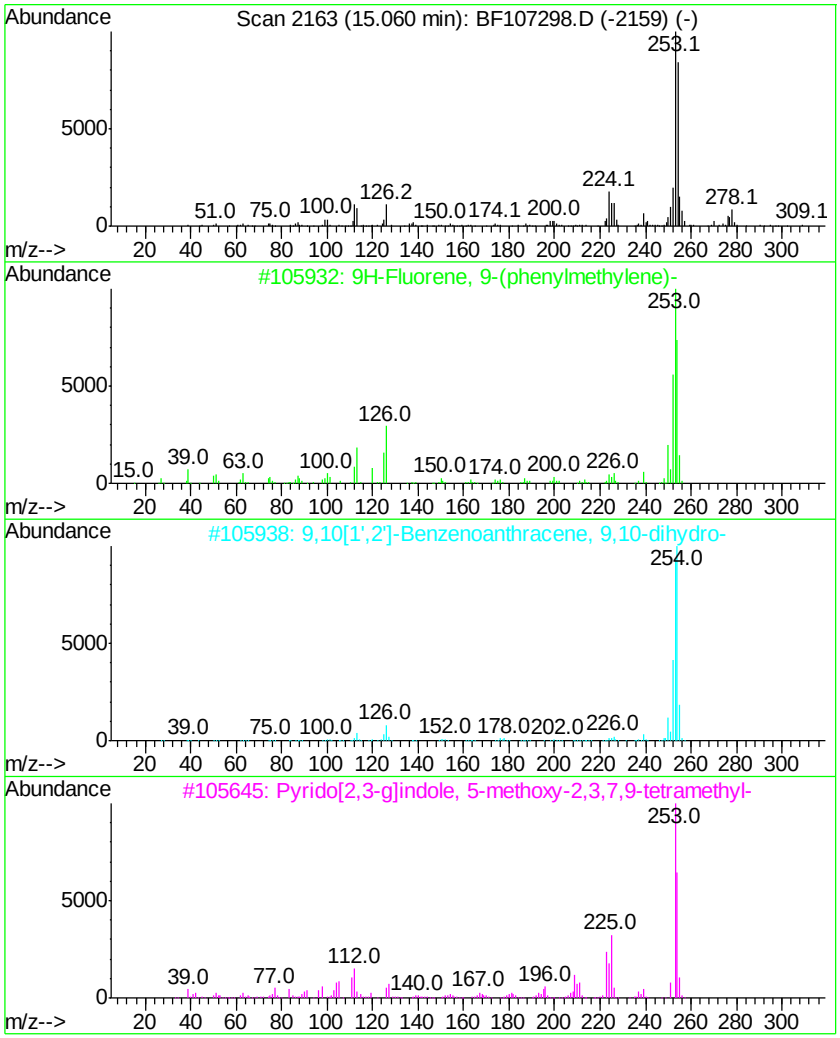
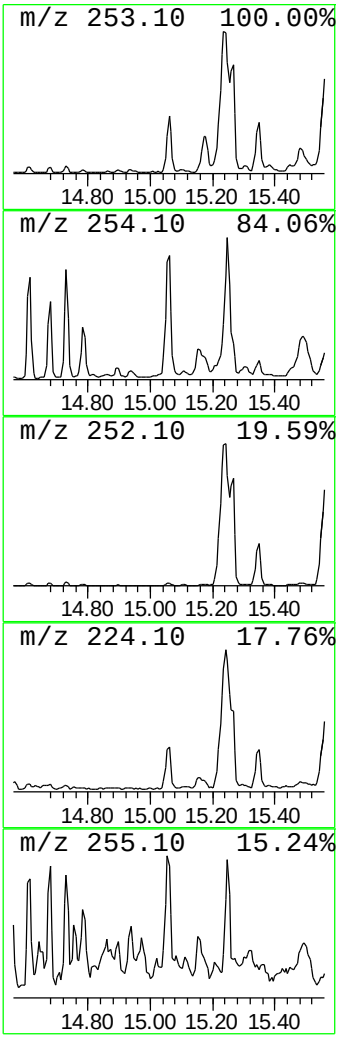
Peak Number 16 9H-Fluorene, 9-(phenylmethy... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	8.99 ng	211674	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	74
2	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
3	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	64
4	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	64
5	1H-Indene, 1,1'-(1,2-ethanediyli...	254	C20H14	072088-04-1	59





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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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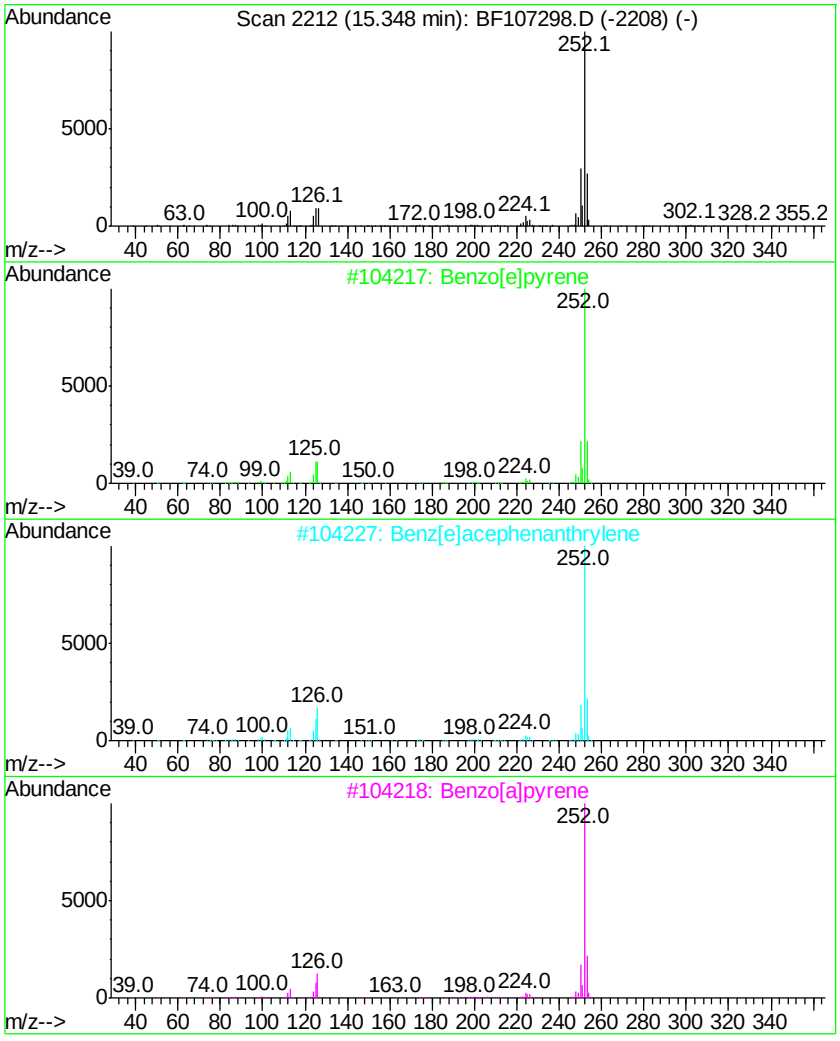
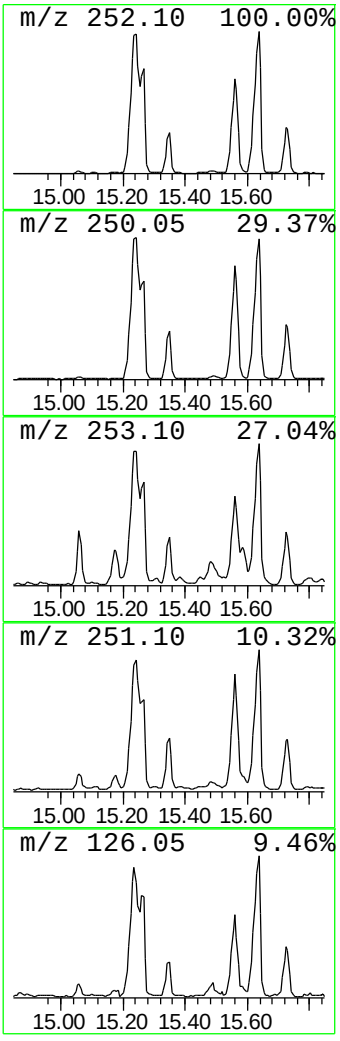
Peak Number 17 Benz[e]acephenanthrylene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	16.25 ng	382605	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5	Perylene	252	C20H12	000198-55-0	74





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Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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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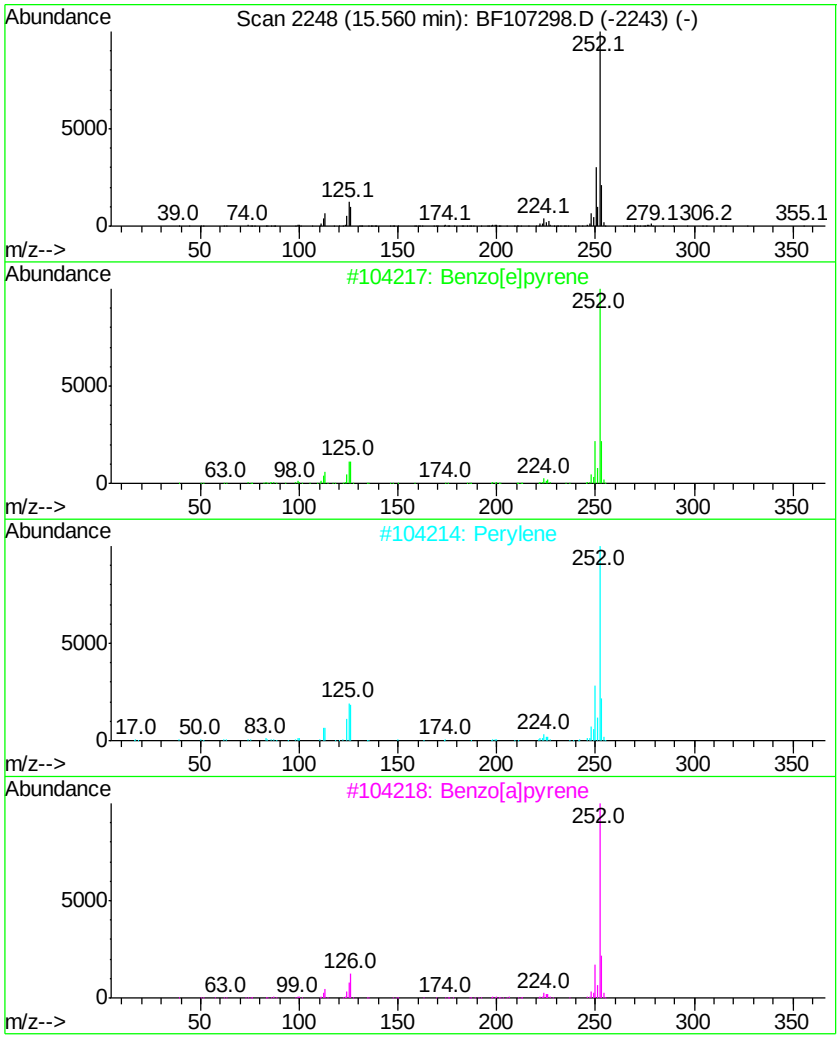
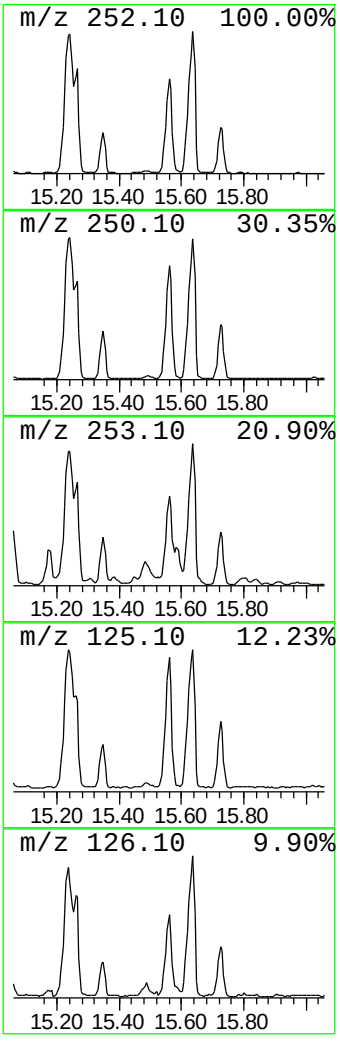
Peak Number 18 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.56	49.72 ng	1170420	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	94
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

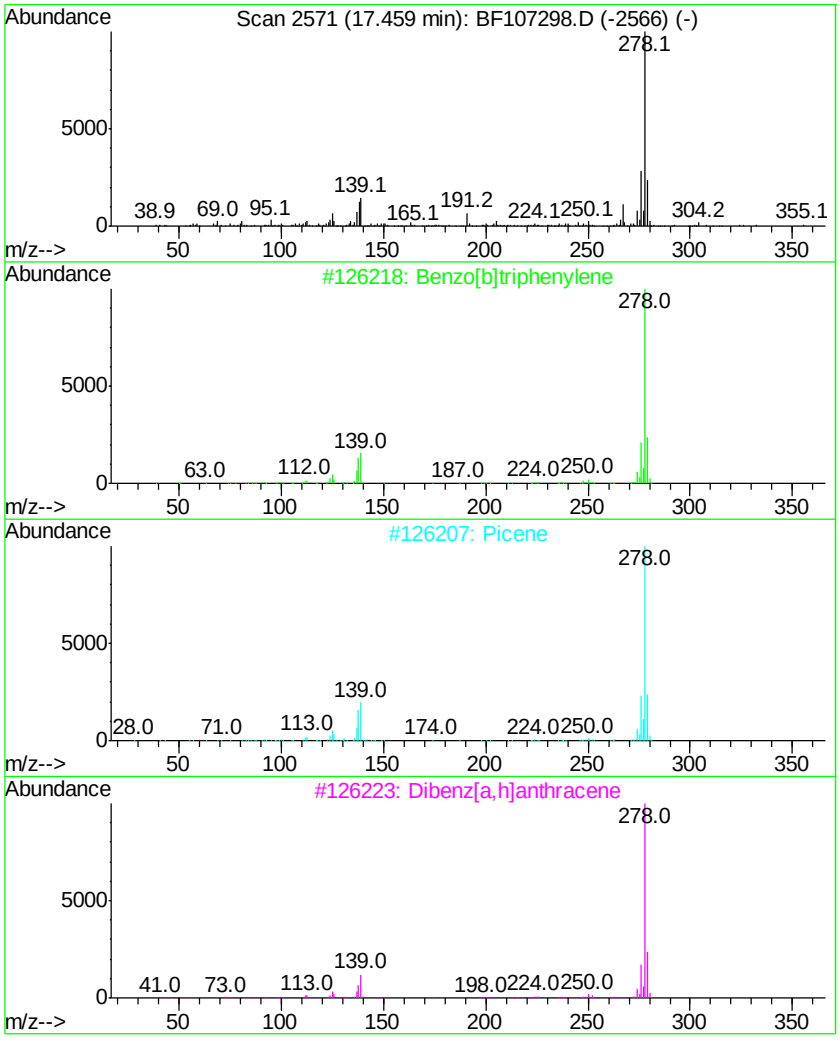
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

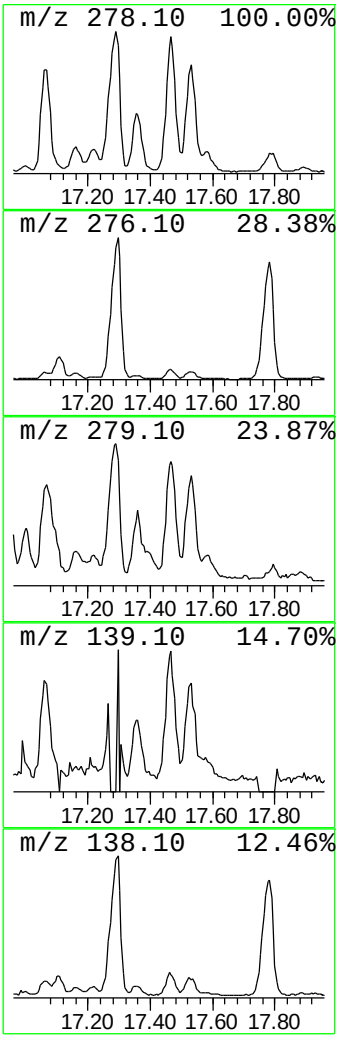
****

Peak Number 19 Benzo[b]triphenylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.46	12.24 ng	288223	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
2	Picene	278	C22H14	000213-46-7	98
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
4	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	93
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071118\
Data File : BF107298.D
Acq On : 11 Jul 2018 14:25
Operator : JU/SJ
Sample : J3933-06 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : EP-6-N1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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
unknown6.71	6.71	30.5	ng	548716	1	6.93	360308	20.0
9H-Fluoren-9-one	11.28	8.8	ng	228120	4	11.48	520920	20.0
Dibenzothiophene	11.37	9.3	ng	243165	4	11.48	520920	20.0
Phenanthrene, 2-m...	11.98	14.5	ng	377442	4	11.48	520920	20.0
Phenanthrene, 1-m...	12.01	18.8	ng	490494	4	11.48	520920	20.0
Anthracene, 2-met...	12.06	7.5	ng	196518	4	11.48	520920	20.0
4H-Cyclopenta[def...	12.10	23.0	ng	599579	4	11.48	520920	20.0
1H-Cyclopropa[l]p...	12.11	7.7	ng	199475	4	11.48	520920	20.0
Naphthalene, 2-ph...	12.27	11.4	ng	296280	4	11.48	520920	20.0
9,10-Anthracenedione	12.31	7.4	ng	193808	4	11.48	520920	20.0
Phenanthrene, 2,5...	12.53	8.8	ng	228969	4	11.48	520920	20.0
unknown12.57	12.57	5.9	ng	154683	4	11.48	520920	20.0
Cyclopenta(def)ph...	12.64	8.0	ng	209143	4	11.48	520920	20.0
unknown14.97	14.97	6.6	ng	155206	6	15.69	470807	20.0
9H-Fluorene, 9-(p...	15.06	9.0	ng	211674	6	15.69	470807	20.0
Benz[e]acephenant...	15.35	16.3	ng	382605	6	15.69	470807	20.0
Benzo[e]pyrene	15.56	49.7	ng	1170420	6	15.69	470807	20.0
Benzo[b]triphenylene	17.46	12.2	ng	288223	6	15.69	470807	20.0