LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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-BF110818.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	2.187	13	17	32	rVB	35328	64686	2.87%	0.200%
2	5.551	586	589	610	rBV	562221	646729	28.73%	2.001%
3	6.563	757	761	774	rBV	574654	724344	32.17%	2.241%
4	6.704	782	785	792	rVB	833272	715442	31.78%	2.214%
5	6.939	821	825	832	rBV	407250	390152	17.33%	1.207%
6	7.092	848	851	859	rVB	600827	527716	23.44%	1.633%
7	7.504	917	921	927	rBV	377369	425887	18.92%	1.318%
8	8.222	1039	1043	1045	rBV	552546	478039	21.23%	1.479%
9	8.239	1045	1046	1049	rVB	75979	61284	2.72%	0.190%
10	8.939	1162	1165	1170	rBV	66355	71777	3.19%	0.222%
11	9.033	1178	1181	1187	rBV	76591	74219	3.30%	0.230%
12	9.292	1222	1225	1234	rBV	990070	804892	35.75%	2.491%
13	9.563	1266	1271	1276	rBV2	53573	80924	3.59%	0.250%
14	9.639	1279	1284	1286	rVV	88890	104585	4.65%	0.324%
15	9.686	1289	1292	1299	rVB2	86415	120888	5.37%	0.374%
16	9.757	1299	1304	1312	rVB	50872	79171	3.52%	0.245%
17	9.845	1315	1319	1322	rBV2	102595	105932	4.71%	0.328%
18	9.980	1339	1342	1345	rVV	651186	554025	24.61%	1.714%
19	10.016	1345	1348	1354	rVB	219910	224073	9.95%	0.693%
20	10.186	1372	1377	1380	rVV2	154335	169186	7.52%	0.524%
21	10.292	1392	1395	1398	rBV	51665	59535	2.64%	0.184%
22	10.386	1406	1411	1413	rBV3	54712	66673	2.96%	0.206%
23	10.533	1432	1436	1441	rVB	281095	283254	12.58%	0.877%
24	10.610	1445	1449	1452	rVV3	62319	113211	5.03%	0.350%
25	10.686	1460	1462	1466	rVB2	90716	78221	3.47%	0.242%
26	10.775	1473	1477	1483	rBV	521042	533243	23.69%	1.650%
27	10.874	1490	1494	1499	rBV3	56494	81427	3.62%	0.252%
28	11.080	1522	1529	1531	rBV2	98515	138824	6.17%	0.430%
29	11.204	1546	1550	1552	rBV3	50960	72296	3.21%	0.224%
30	11.227	1552	1554	1558	rVB3	56709	56857	2.53%	0.176%
31	11.286	1560	1564	1567	rBV2	56867	58777	2.61%	0.182%
32	11.374	1576	1579	1585	rVB	148717	149052	6.62%	0.461%
33	11.474	1593	1596	1598	rBV	561333	511613	22.73%	1.583%
34	11.504	1598	1601	1604	rVV	2265098	1864775	82.83%	5.770%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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-BF110818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.551	1606	1609	1613	rVV	478684	450038	19.99%	1.393%
36	11.592	1613	1616	1620	rVV3	40809	65766	2.92%	0.204%
37	11.710	1632	1636	1640	rBV2	191944	228170	10.14%	0.706%
38	11.810	1650	1653	1658	rVB2	64321	79814	3.55%	0.247%
39	11.886	1663	1666	1672	rVB2	43448	61225	2.72%	0.189%
40	11.974	1678	1681	1684	rBV	406143	384934	17.10%	1.191%
41	12.004	1684	1686	1690	rVB	447472	394893	17.54%	1.222%
42	12.057	1690	1695	1697	rBV	167976	153413	6.81%	0.475%
43	12.092	1697	1701	1703	rVV2	495653	548560	24.37%	1.697%
44	12.110	1703	1704	1708	rVB	238021	199591	8.87%	0.618%
45	12.269	1728	1731	1735	rVV	209041	213128	9.47%	0.660%
46	12.310	1735	1738	1741	rVV2	160776	145420	6.46%	0.450%
47	12.421	1752	1757	1760	rBV2	107302	130652	5.80%	0.404%
48	12.451	1760	1762	1764	rVV	103382	79759	3.54%	0.247%
49	12.474	1764	1766	1769	rVB2	70354	66742	2.96%	0.207%
50	12.527	1771	1775	1778	rBV	270722	287011	12.75%	0.888%
51	12.569	1778	1782	1784	rVV2	119406	172908	7.68%	0.535%
52	12.627	1787	1792	1795	rBV2	123003	197187	8.76%	0.610%
53	12.704	1800	1805	1807	rBV	1961825	2026699	90.02%	6.272%
54	12.757	1812	1814	1818	rVB2	79433	78230	3.47%	0.242%
55	12.845	1825	1829	1832	rBV3	105329	130687	5.80%	0.404%
56	12.933	1837	1844	1848	rBV	2006967	2251295	100.00%	6.967%
57	12.974	1848	1851	1855	rVB	172012	166498	7.40%	0.515%
58	13.057	1855	1865	1868	rBV2	825754	855230	37.99%	2.646%
59	13.092	1868	1871	1875	rVB	97531	115309	5.12%	0.357%
60	13.145	1875	1880	1884	rBV2	186885	322765	14.34%	0.999%
61	13.257	1891	1899	1903	rVB	335135	524778	23.31%	1.624%
62	13.321	1907	1910	1912	rBV	242450	216628	9.62%	0.670%
63	13.357	1912	1916	1919	rVV2	221392	259300	11.52%	0.802%
64	13.410	1923	1925	1928	rVB2	61305	57502	2.55%	0.178%
65	13.451	1929	1932	1935	rBV	186191	166731	7.41%	0.516%
66	13.486	1935	1938	1940	rBV	152303	148333	6.59%	0.459%
67	13.657	1964	1967	1968	rVV2	60149	65204	2.90%	0.202%
68	13.674	1968	1970	1973	rVV	91422	103076	4.58%	0.319%
69	13.733	1977	1980	1983	rBV3	58617	72894	3.24%	0.226%
70	13.768	1983	1986	1989	rVV	184924	178393	7.92%	0.552%
71	13.880	1999	2005	2007	rBV	238266	289512	12.86%	0.896%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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-BF110818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.904	2007	2009	2011	rVV	197299	159370	7.08%	0.493%
73	13.933	2011	2014	2020	rVV3	186397	265181	11.78%	0.821%
74	13.980	2020	2022	2028	rVB	207989	214547	9.53%	0.664%
75	14.045	2028	2033	2036	rBV	83444	139246	6.19%	0.431%
76	14.121	2039	2046	2050	rBV2	1206600	1886611	83.80%	5.838%
77	14.157	2050	2052	2056	rVV	1023016	967747	42.99%	2.995%
78	14.239	2063	2066	2068	rBV	176633	148767	6.61%	0.460%
79	14.286	2071	2074	2078	rBV3	65634	105640	4.69%	0.327%
80	14.363	2083	2087	2089	rVV2	103546	131711	5.85%	0.408%
81	14.480	2104	2107	2108	rBV	99339	97398	4.33%	0.301%
82	14.515	2108	2113	2116	rVB	288088	255055	11.33%	0.789%
83	14.551	2116	2119	2123	rBV2	137622	117012	5.20%	0.362%
84	14.615	2128	2130	2133	rVB2	82334	69814	3.10%	0.216%
85	14.645	2133	2135	2137	rBV	144707	126627	5.62%	0.392%
86	14.851	2167	2170	2172	rBV2	96715	118194	5.25%	0.366%
87	15.039	2198	2202	2204	rBV2	112907	131357	5.83%	0.406%
88	15.210	2226	2231	2238	rBV	718253	1507319	66.95%	4.664%
89	15.321	2246	2250	2254	rVB	150906	174783	7.76%	0.541%
90	15.410	2262	2265	2270	rBV3	49994	106242	4.72%	0.329%
91	15.527	2281	2285	2292	rVB	408479	533122	23.68%	1.650%
92	15.598	2292	2297	2304	rVV	627943	863573	38.36%	2.672%
93	15.662	2304	2308	2311	rVV	295611	388854	17.27%	1.203%
94	15.692	2311	2313	2319	rVB2	170454	229012	10.17%	0.709%
95	16.068	2375	2377	2382	rVB	63368	78008	3.47%	0.241%
96	16.598	2464	2467	2475	rVB4	46483	86163	3.83%	0.267%
97	17.233	2568	2575	2583	rVB	229382	493889	21.94%	1.528%
98	17.421	2601	2607	2612	rBV2	58720	113609	5.05%	0.352%
99	17.480	2613	2617	2626	rVB3	41151	96180	4.27%	0.298%
100	17.715	2651	2657	2667	rVB	148620	330873	14.70%	1.024%

Sum of corrected areas: 32315888

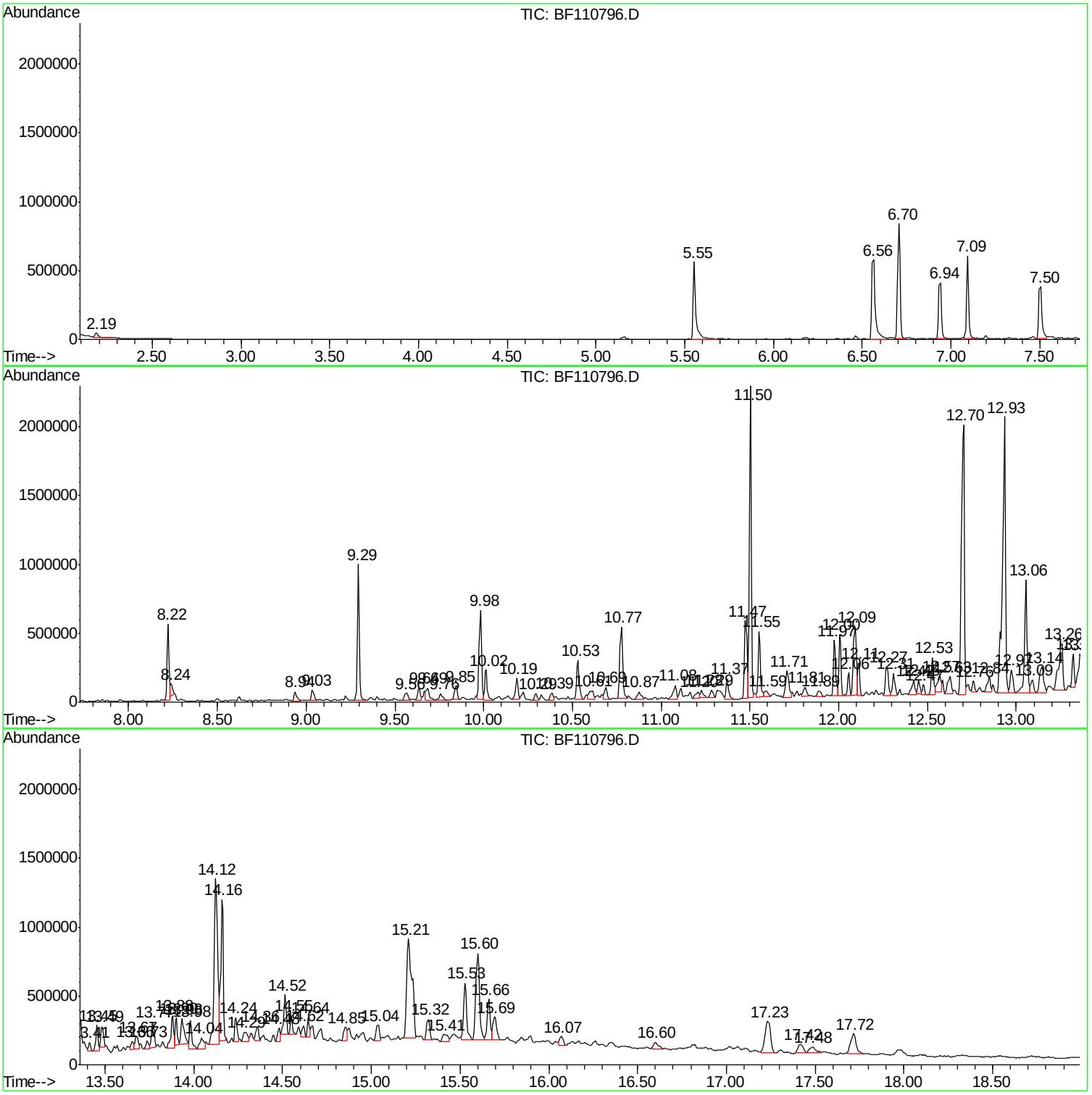
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

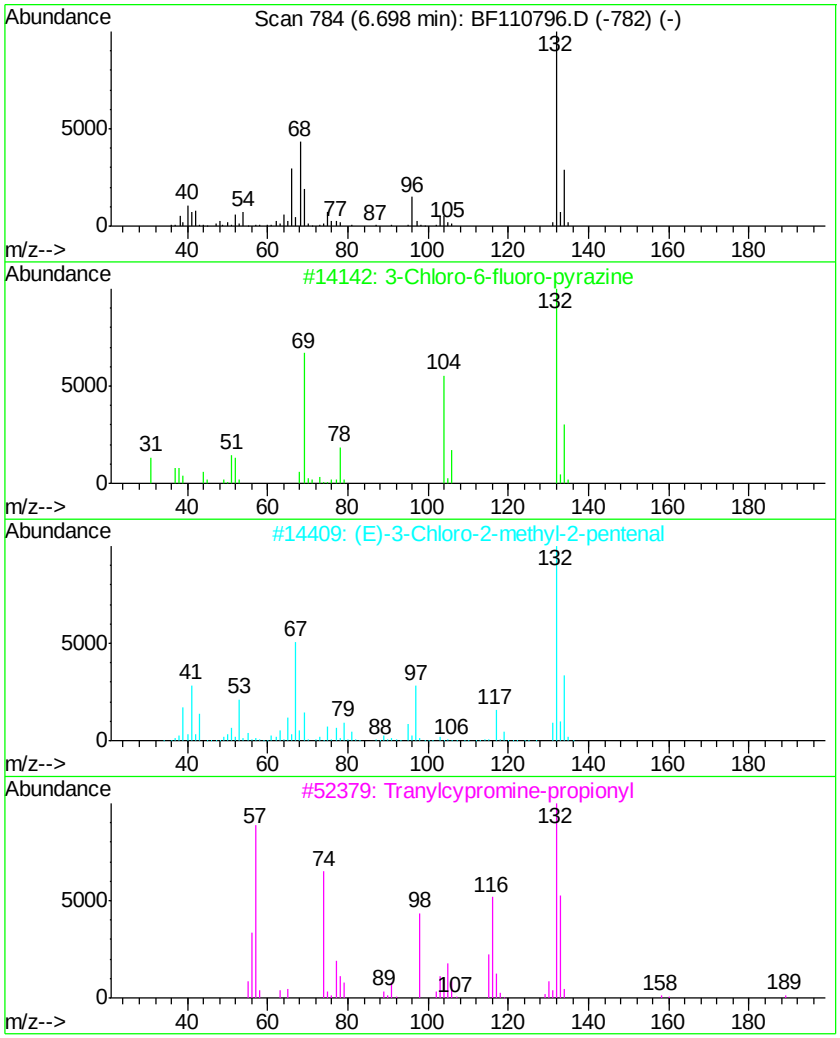
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

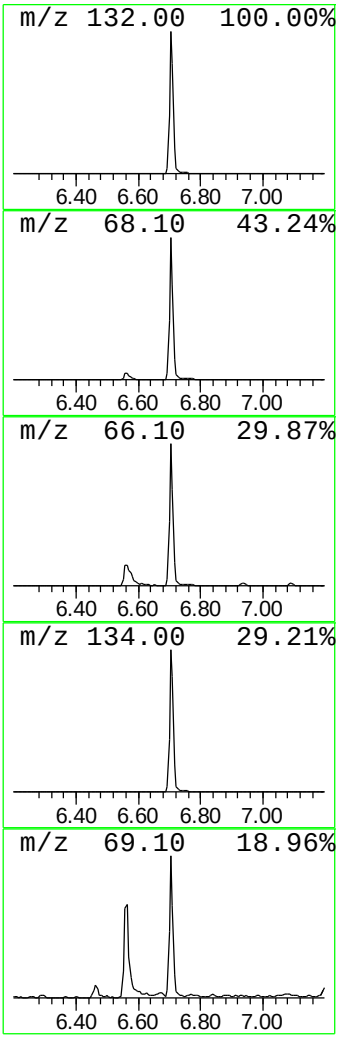
****

Peak Number 1 unknown6.70 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.70	36.68 ng	715442	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

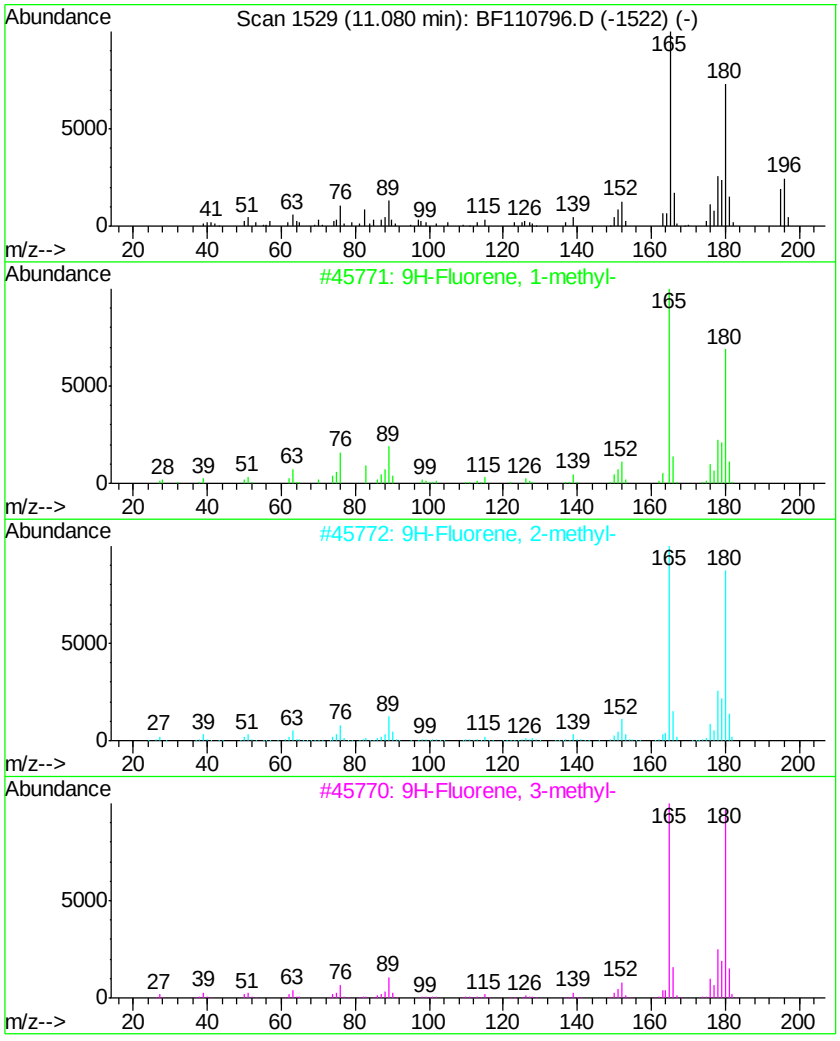
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

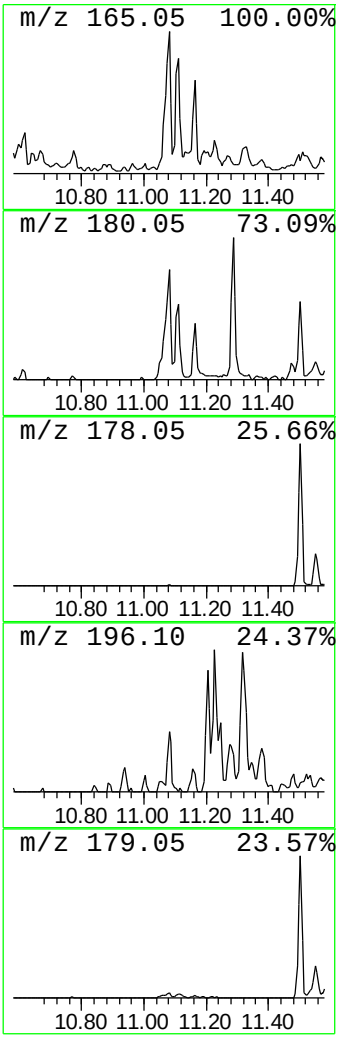
****

Peak Number 3 9H-Fluorene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.08	5.43 ng	138824	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	92
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	83
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	62





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

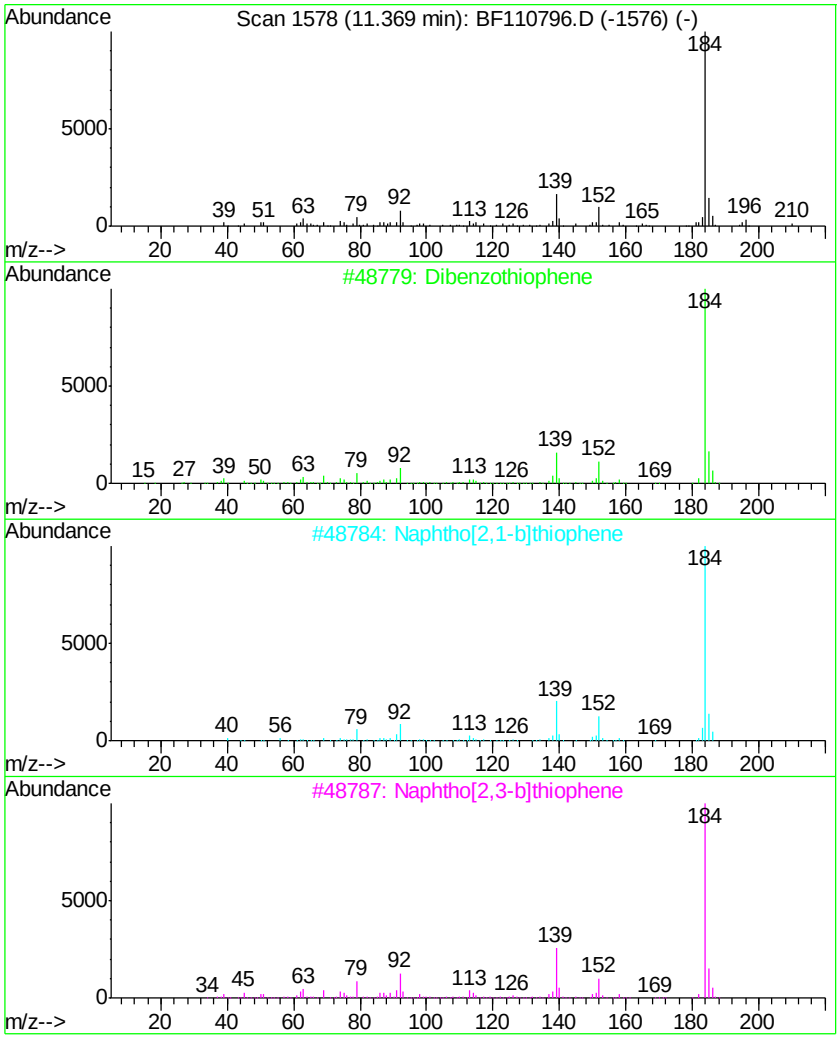
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

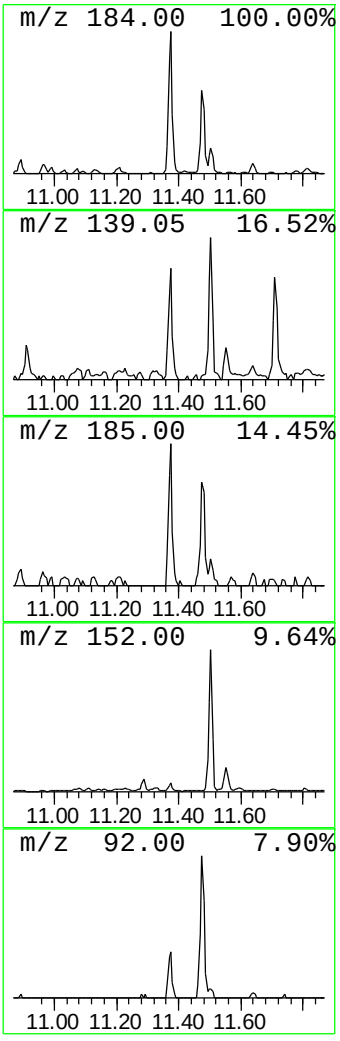
****

Peak Number 4 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	5.83 ng	149052	Phenanthrene-d10	11.47

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	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

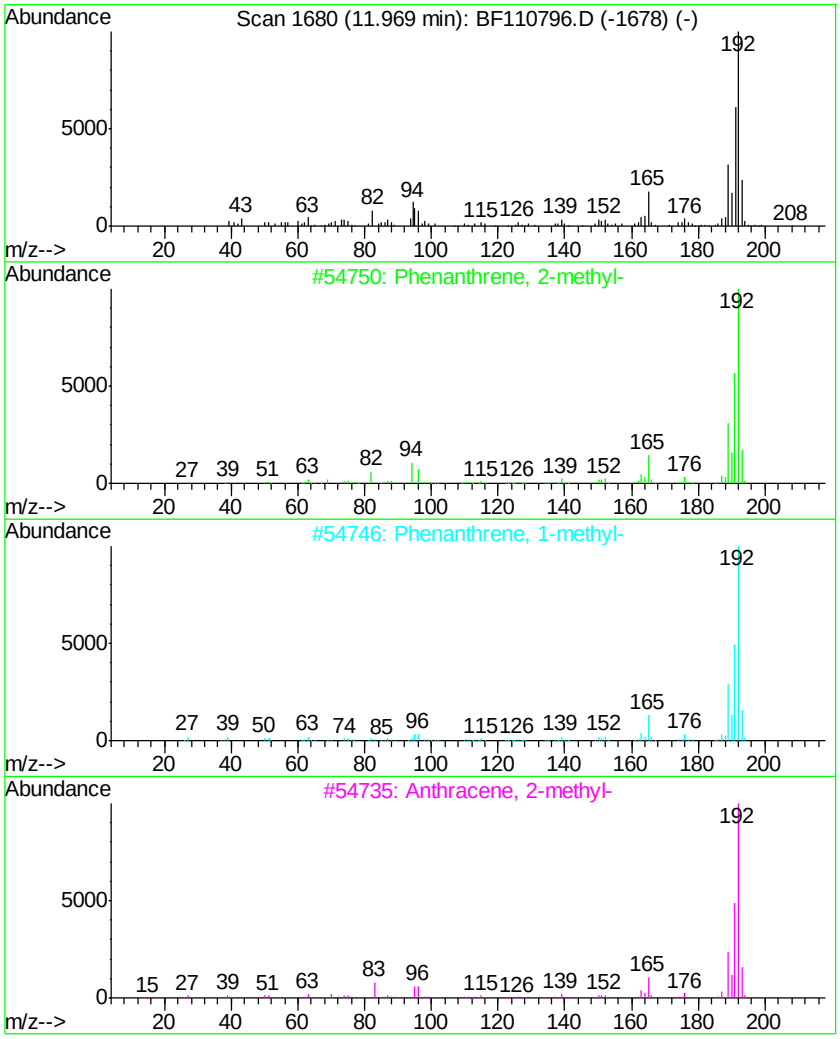
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

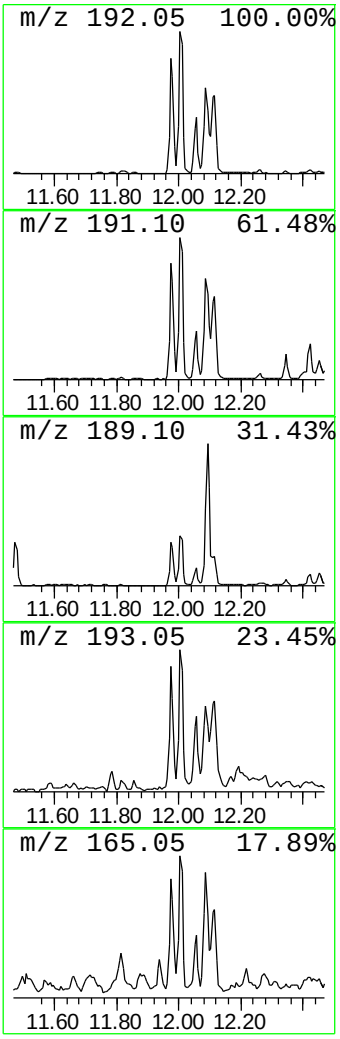
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	15.05 ng	384934	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
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	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

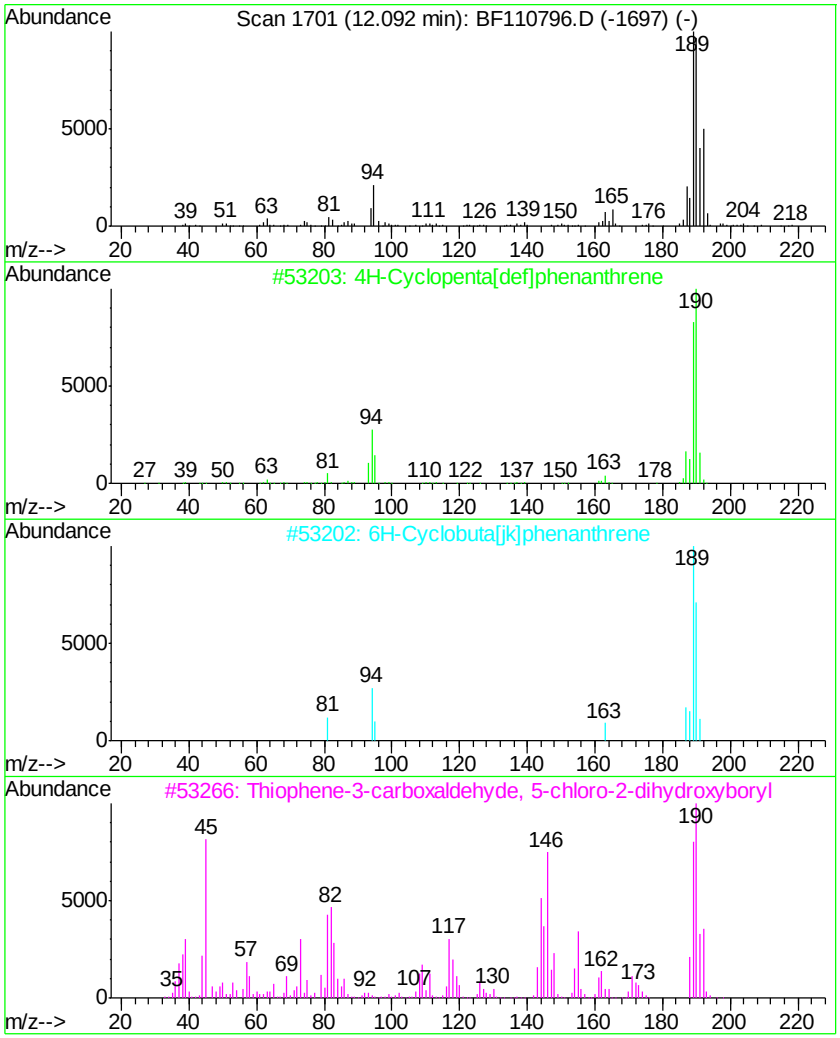
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

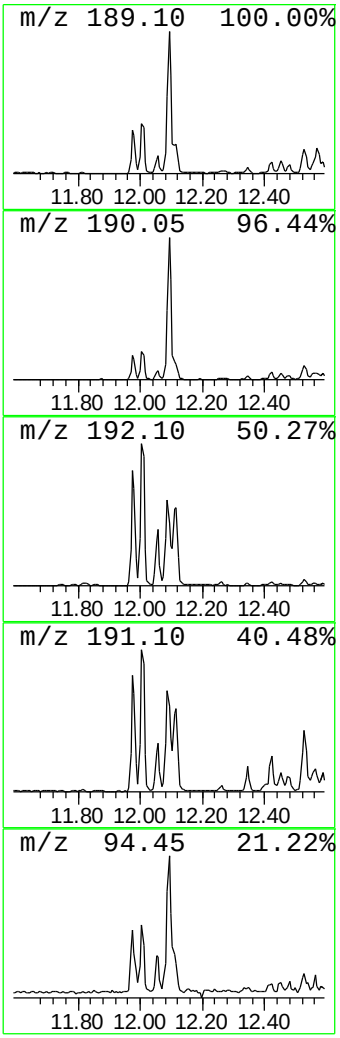
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	21.44 ng	548560	Phenanthrene-d10	11.47

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	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





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Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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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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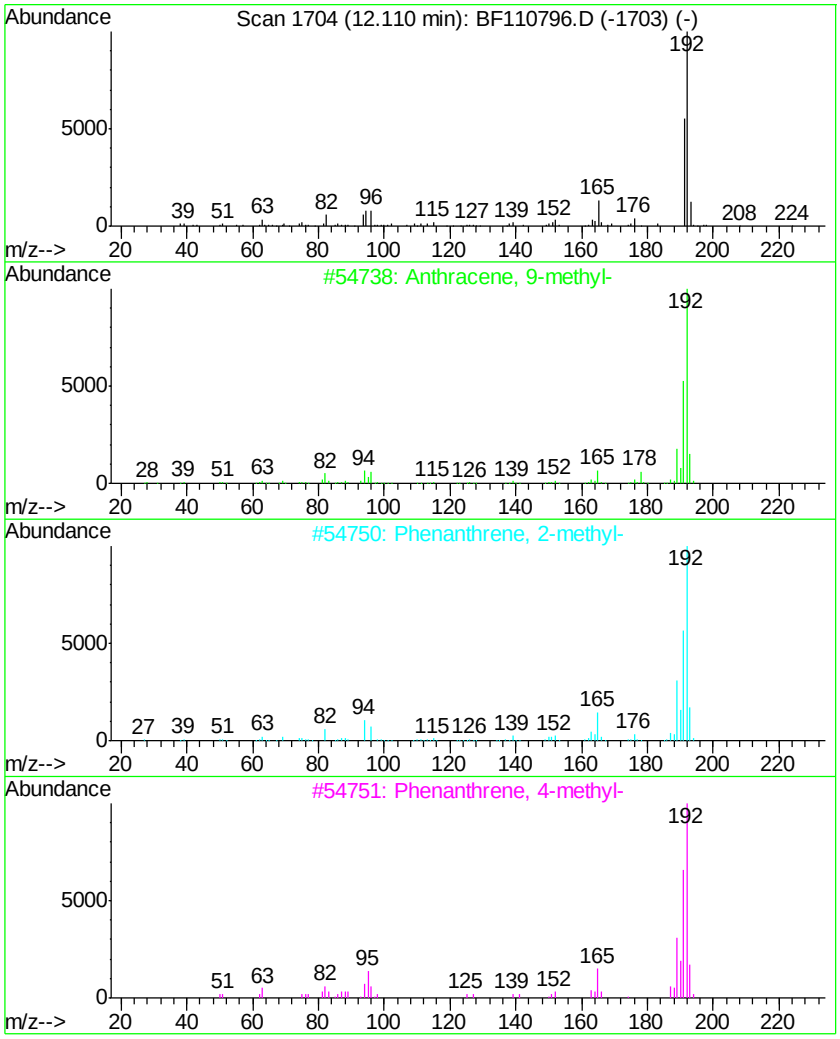
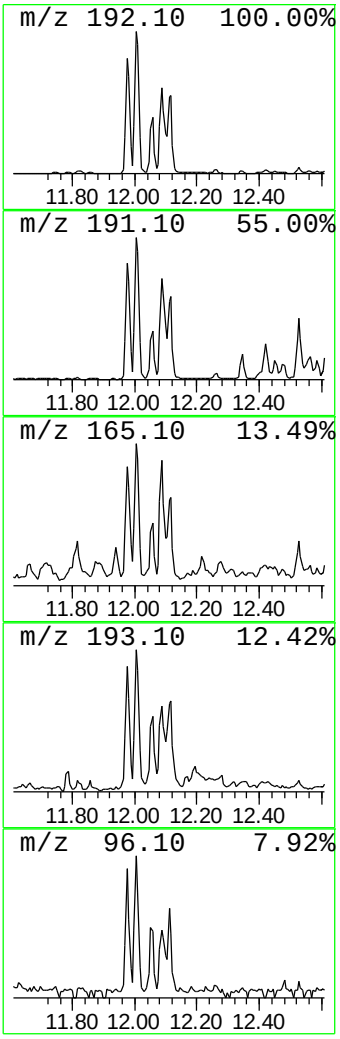
Peak Number 9 Anthracene, 9-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	7.80 ng	199591	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	81





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Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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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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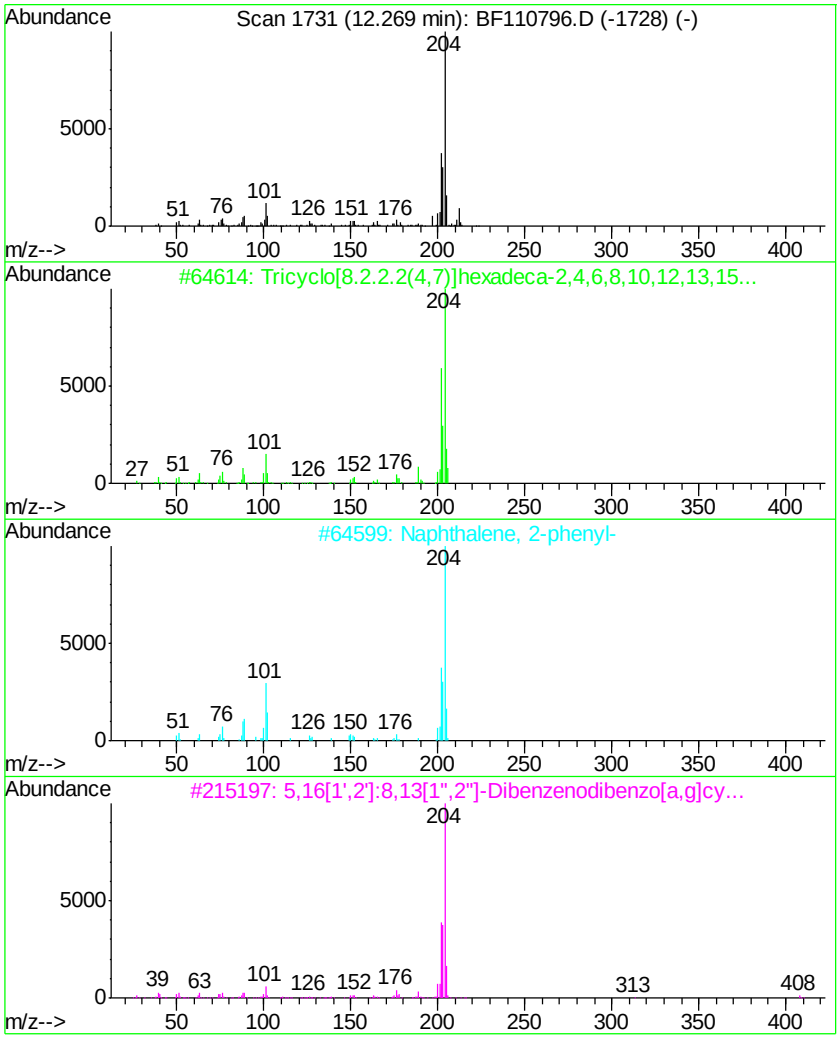
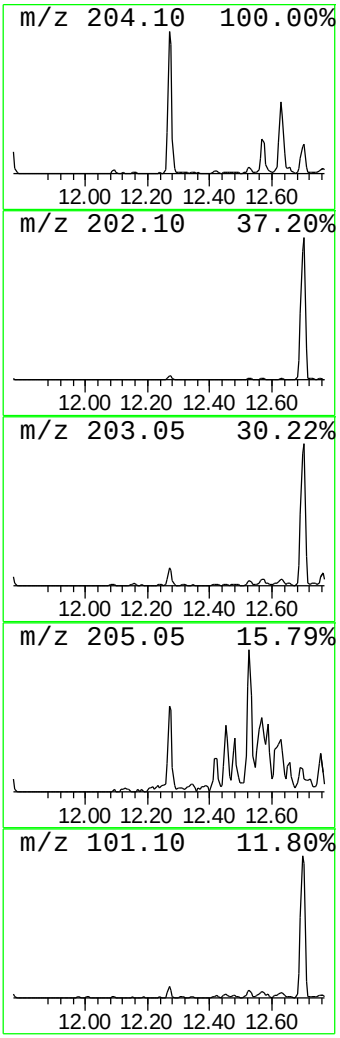
Peak Number 10 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	8.33 ng	213128	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52





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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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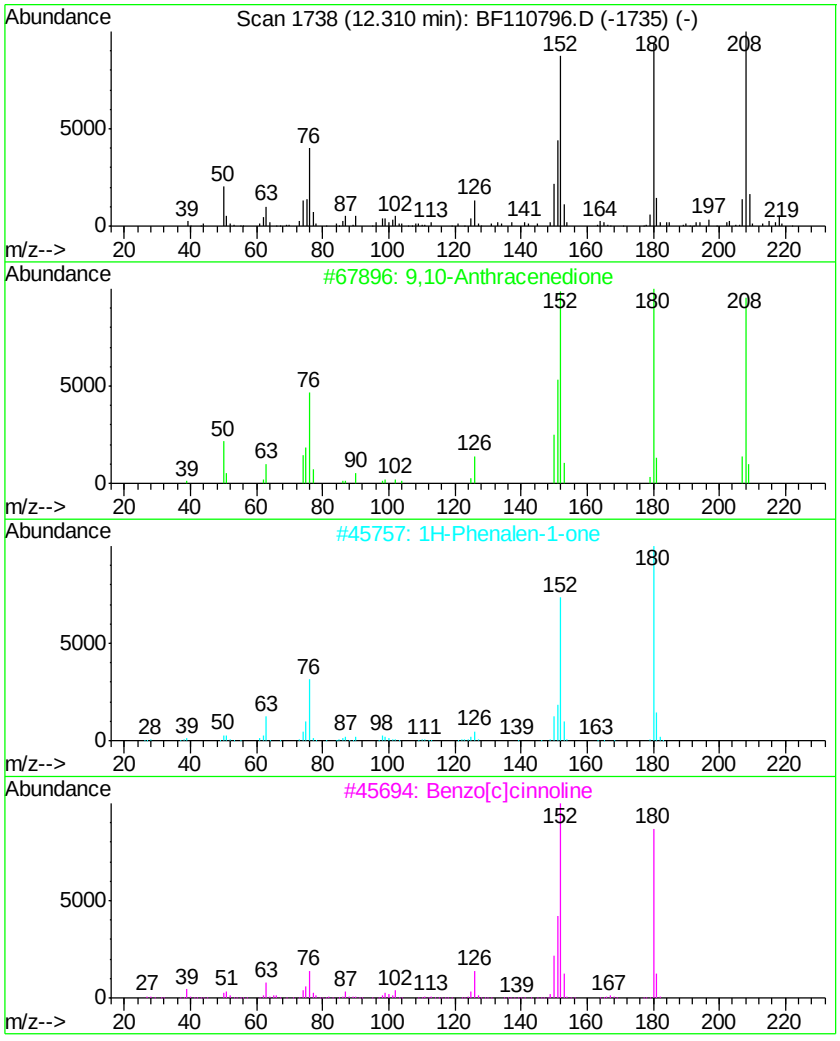
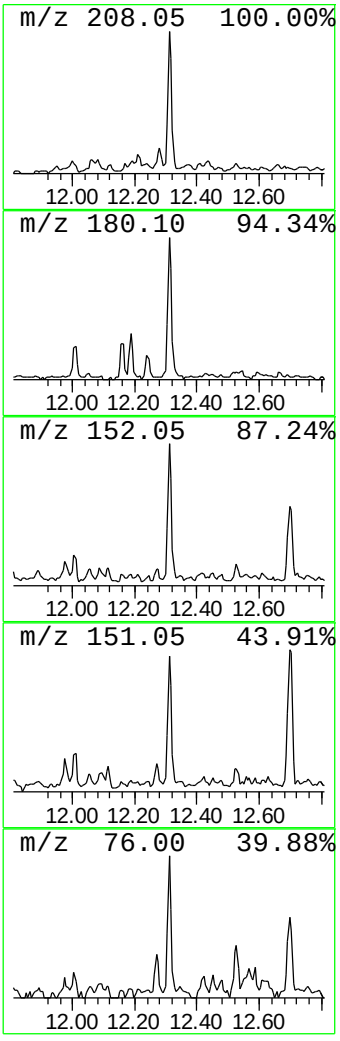
Peak Number 11 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	5.68 ng	145420	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	83
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	78
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	49





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Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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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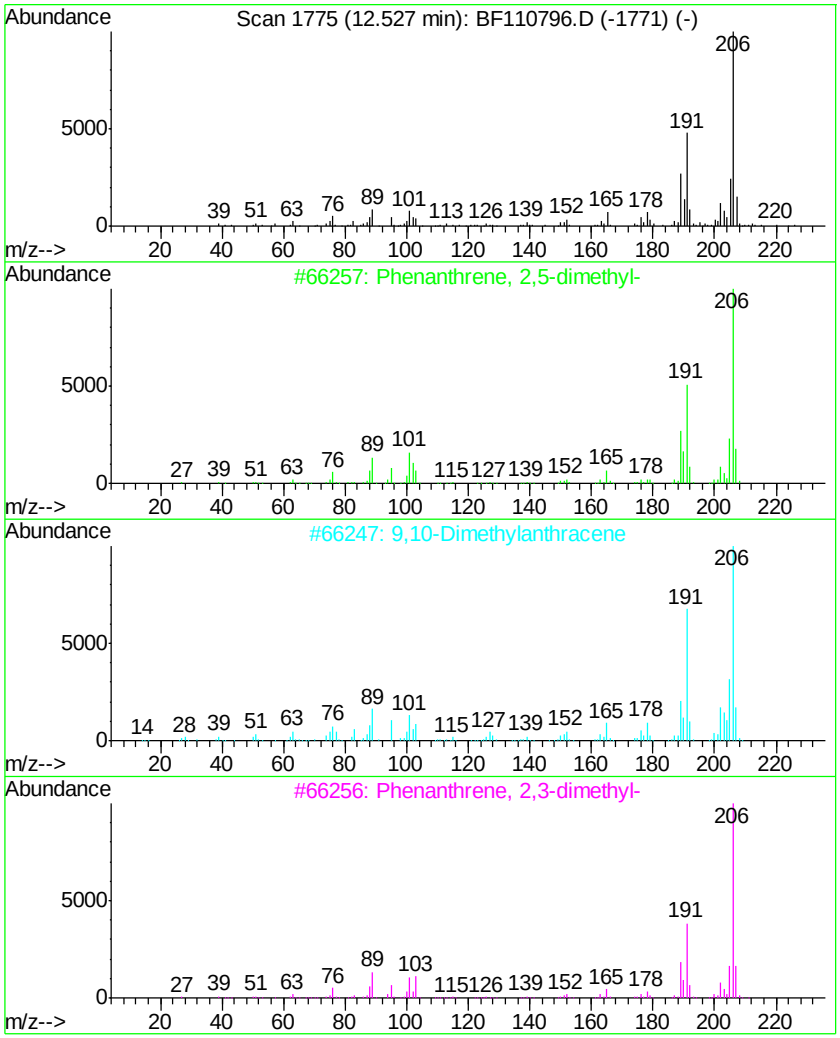
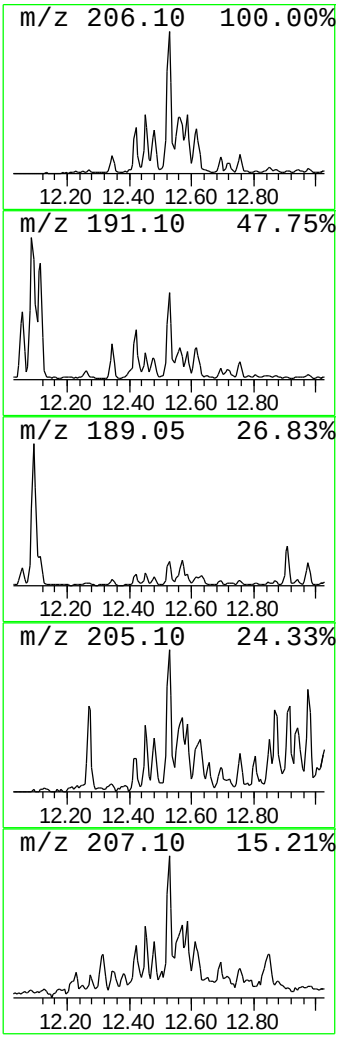
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	11.22 ng	287011	Phenanthrene-d10	11.47

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	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





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Misc :
ALS Vial : 14 Sample Multiplier: 1

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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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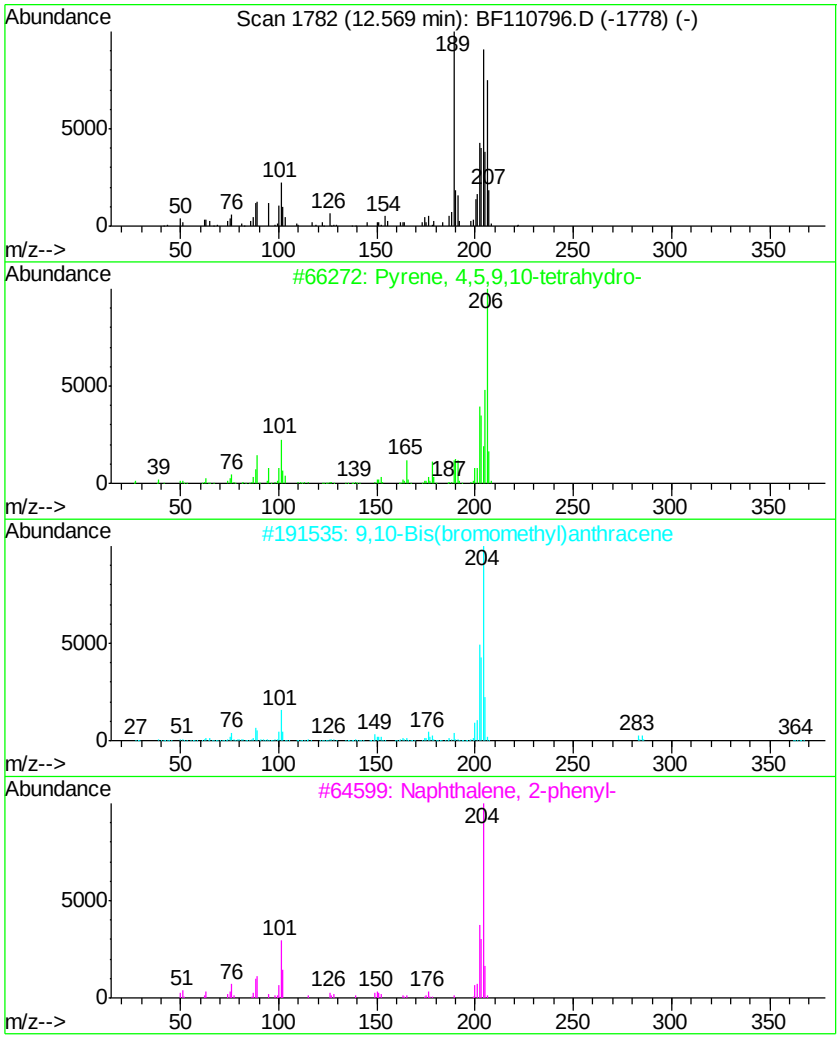
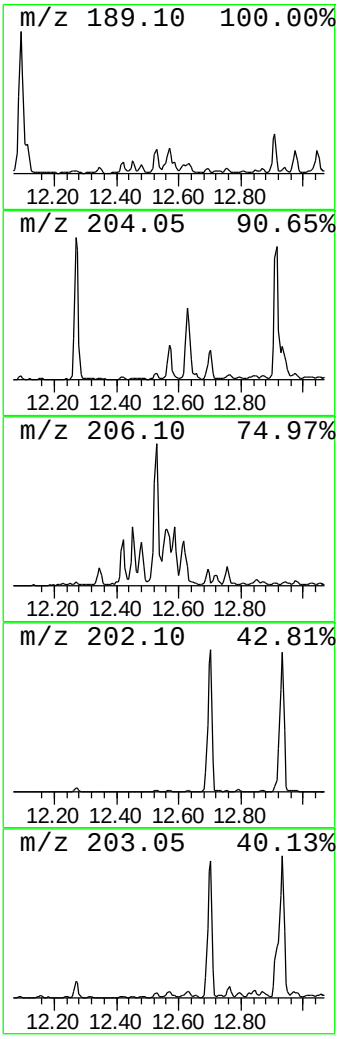
Peak Number 13 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	6.76 ng	172908	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	70
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	25
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	25
5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	25





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ALS Vial : 14 Sample Multiplier: 1

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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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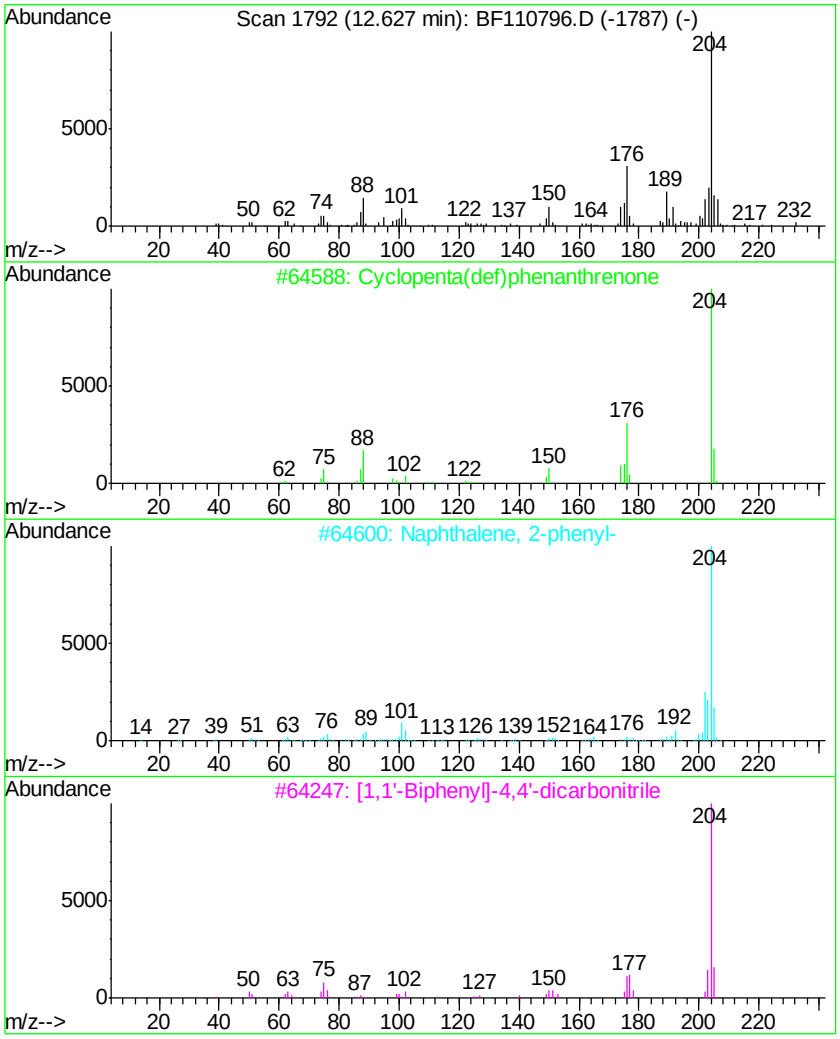
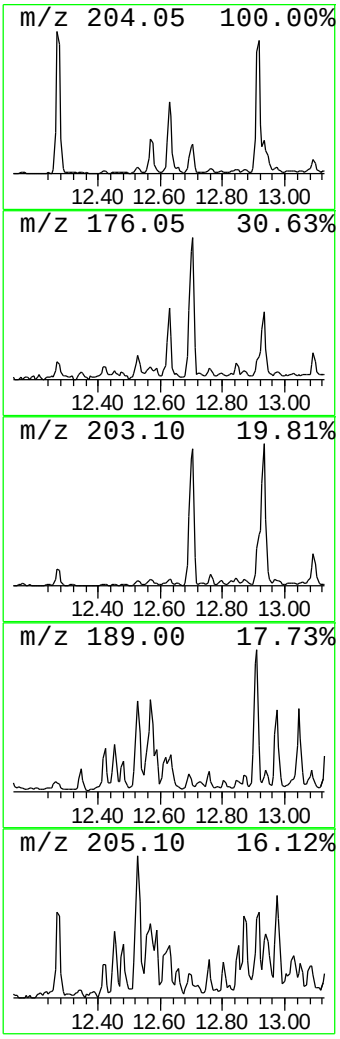
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	7.71 ng	197187	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	53
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49





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Misc :
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ClientSampleId : CL-01-111418-A

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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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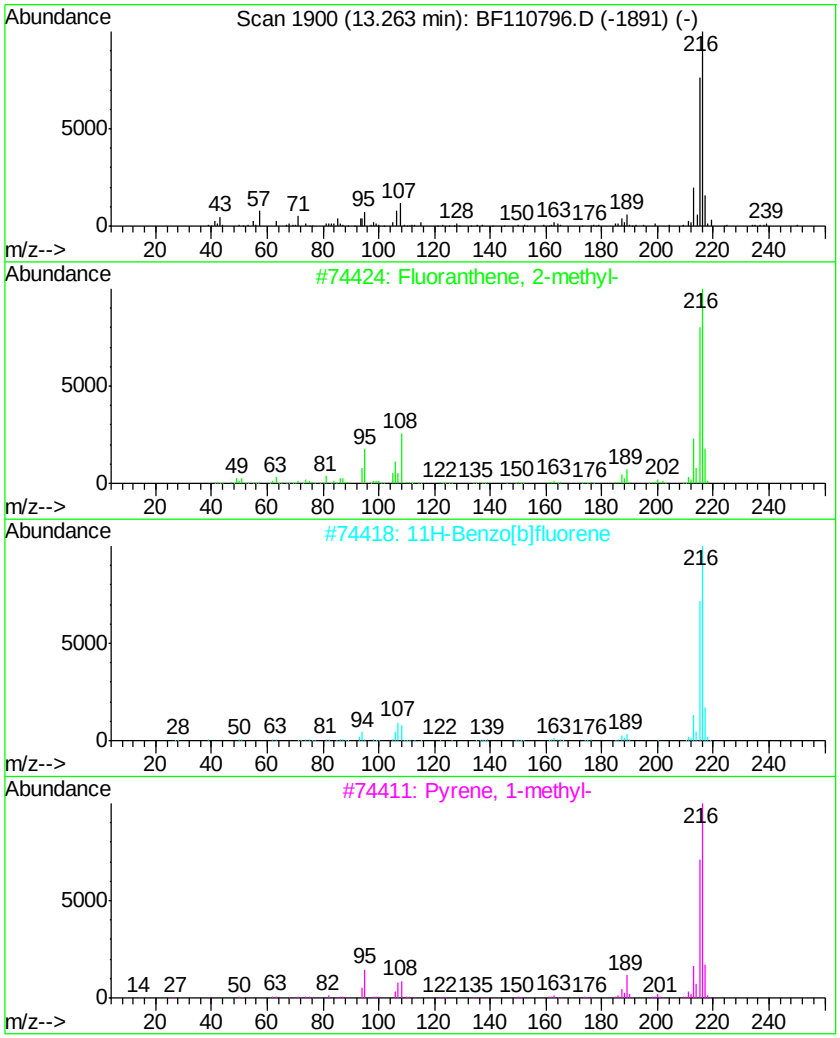
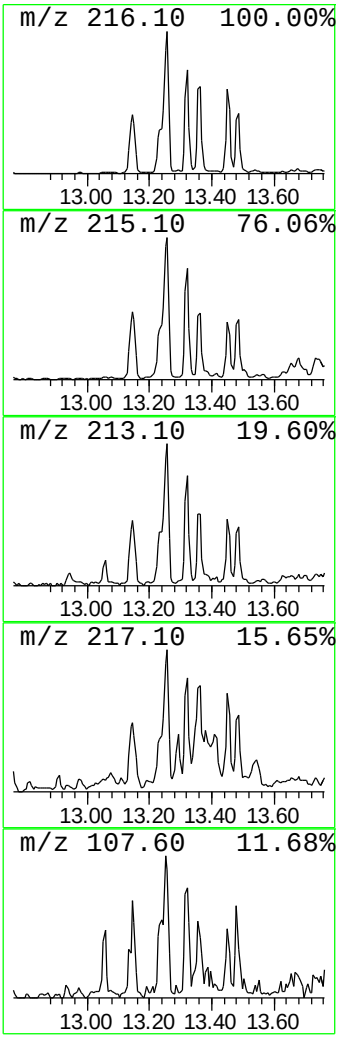
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	5.56 ng	524778	Chrysene-d12	14.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Benzoic acid, 3-(3,5-dimethyl-1-...	216	C12H12N2O2	312531-88-7	64





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Misc :
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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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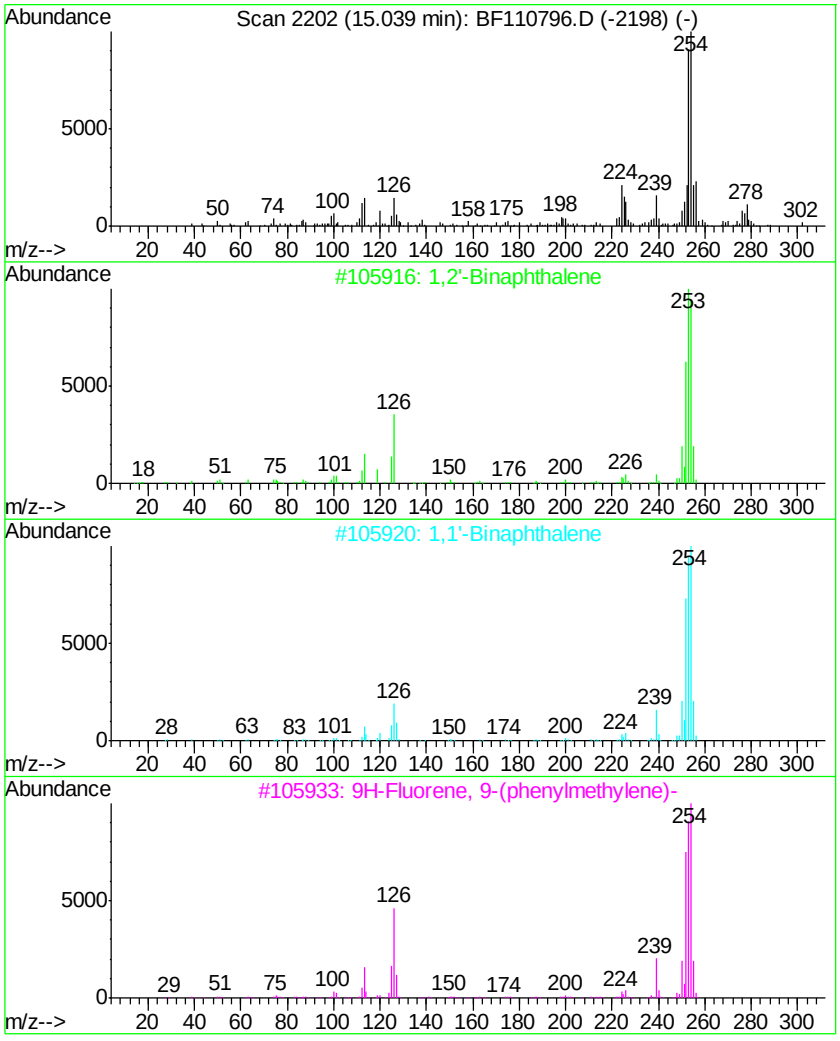
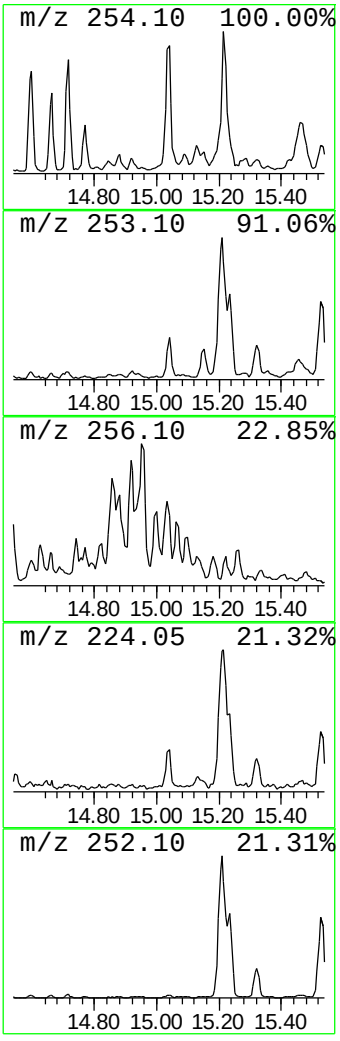
Peak Number 16 1,2'-Binaphthalene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.04	6.76 ng	131357	Perylene-d12	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2'-Binaphthalene	254	C20H14	004325-74-0	62
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	62
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	62
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	62
5	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	62





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Misc :
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Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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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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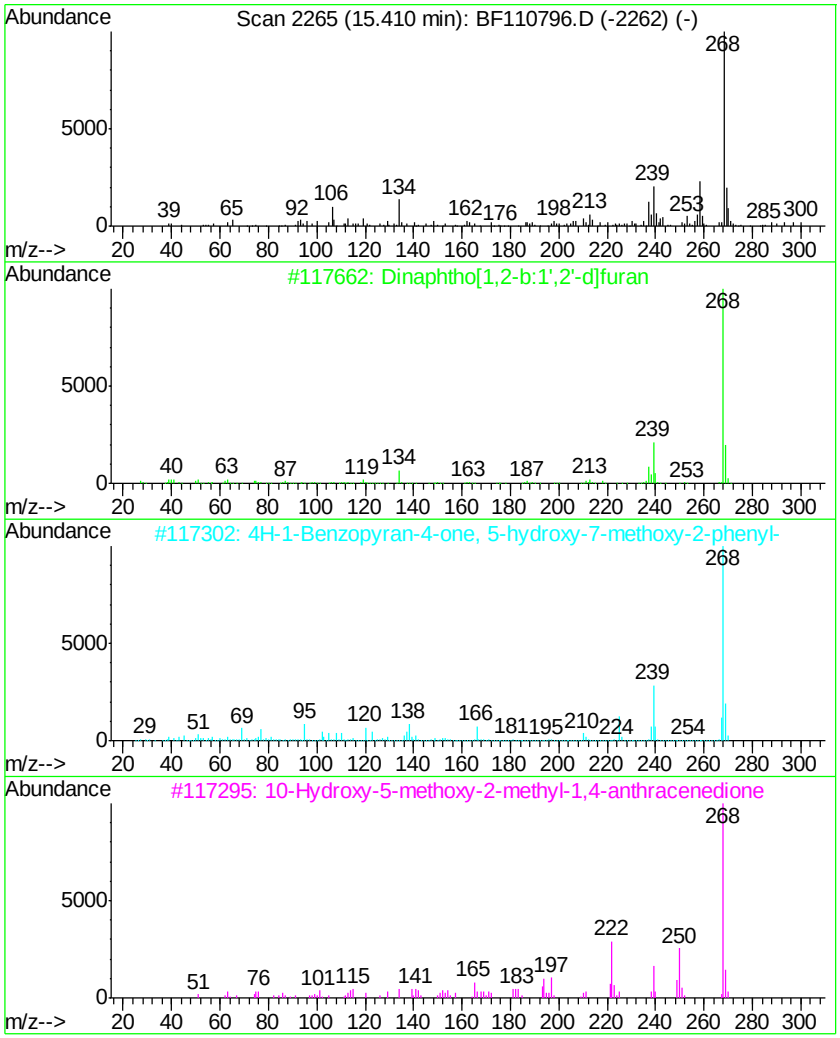
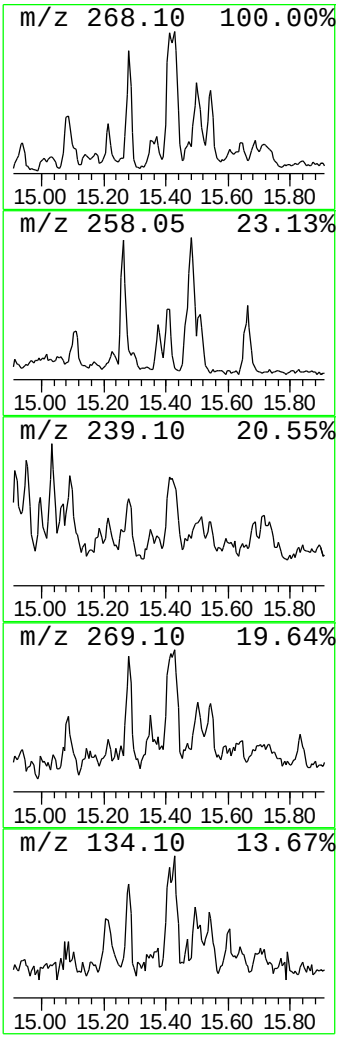
Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.41	5.46 ng	106242	Perylene-d12	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	81
2	4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	64
3	10-Hydroxy-5-methoxy-2-methyl-1,...	268	C16H12O4	084542-45-0	58
4	2,2'-Dithiodibenzonitrile	268	C14H8N2S2	033174-74-2	58
5	Benzo[c]pyren-6,7-diol, 4,5-dihy...	433	C29H23NO3	1000124-59-9	53





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TIC Integration Parameters: LSCINT.P

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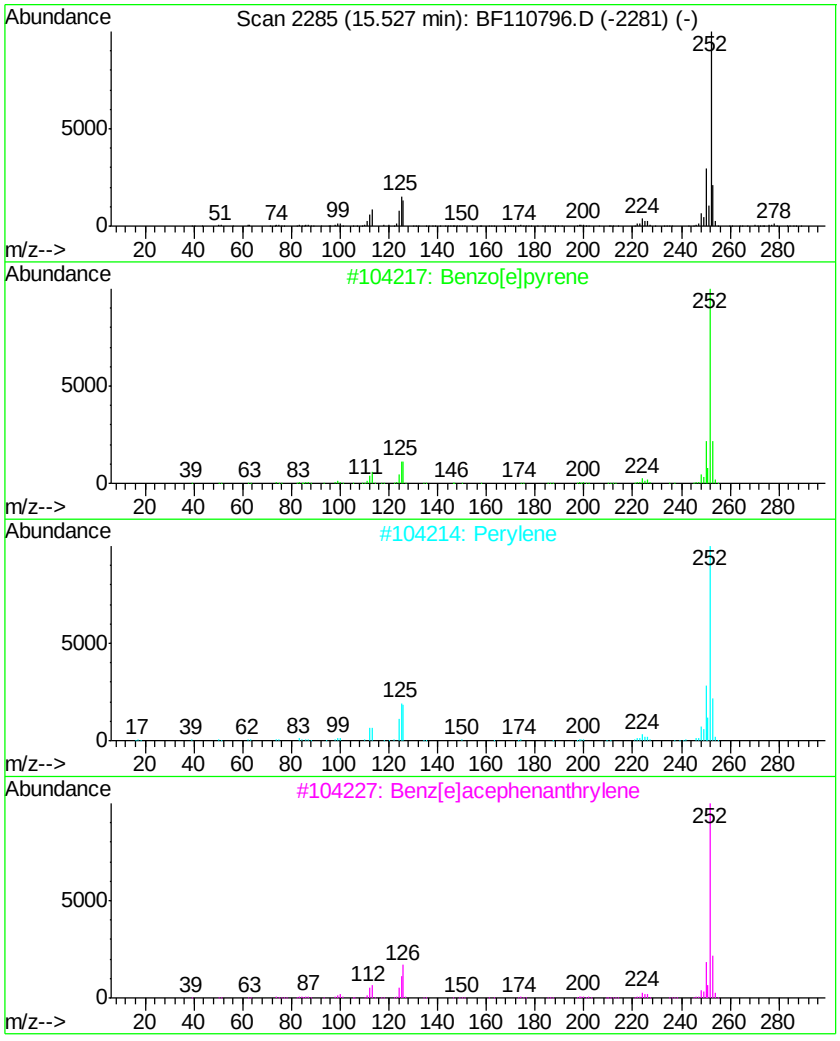
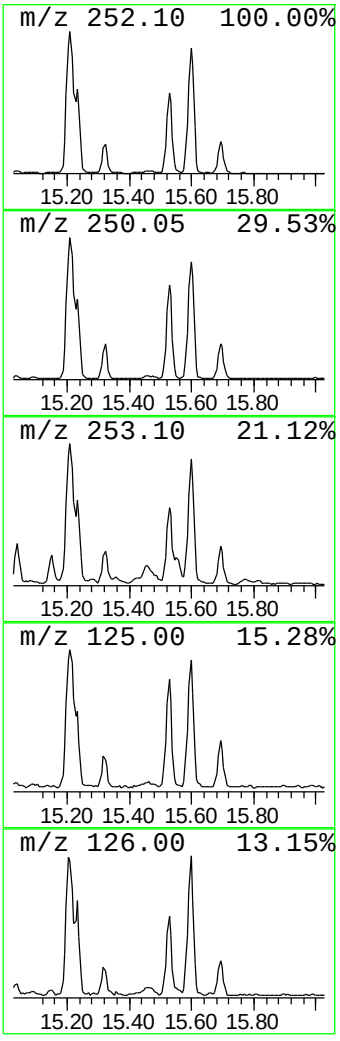
Peak Number 19 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.53	27.42 ng	533122	Perylene-d12	15.66

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





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Instrument : BNA_F
ClientSampleId : CL-01-111418-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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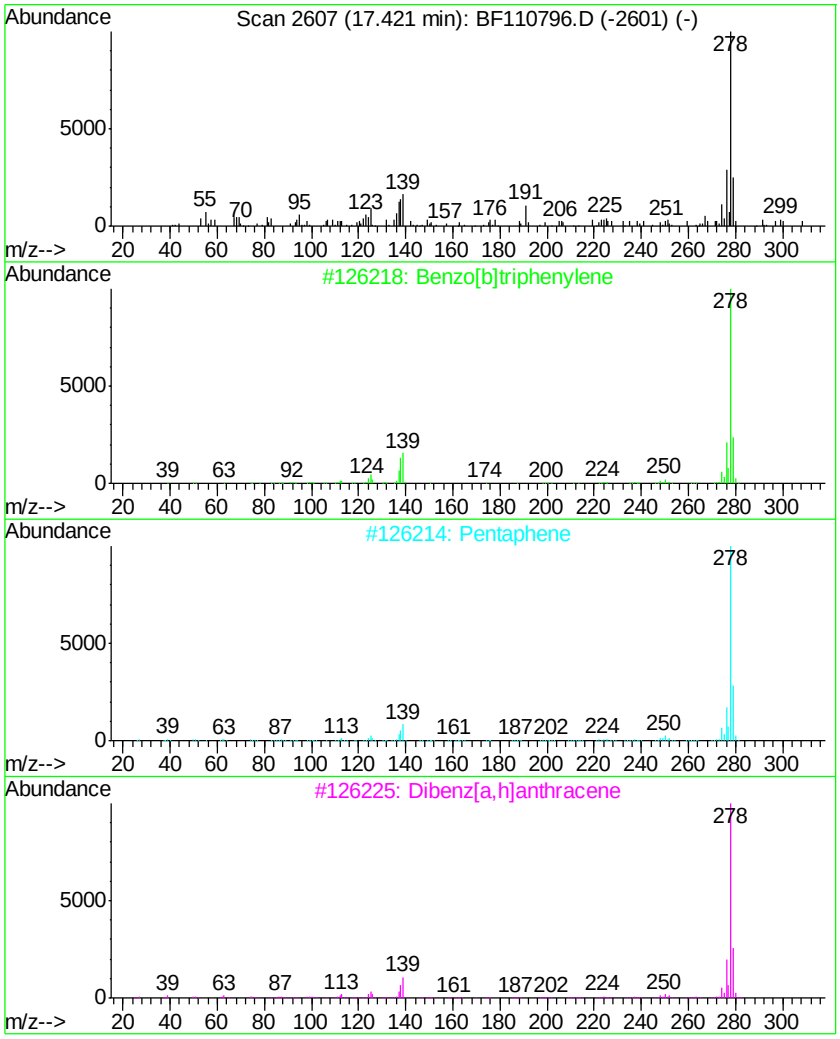
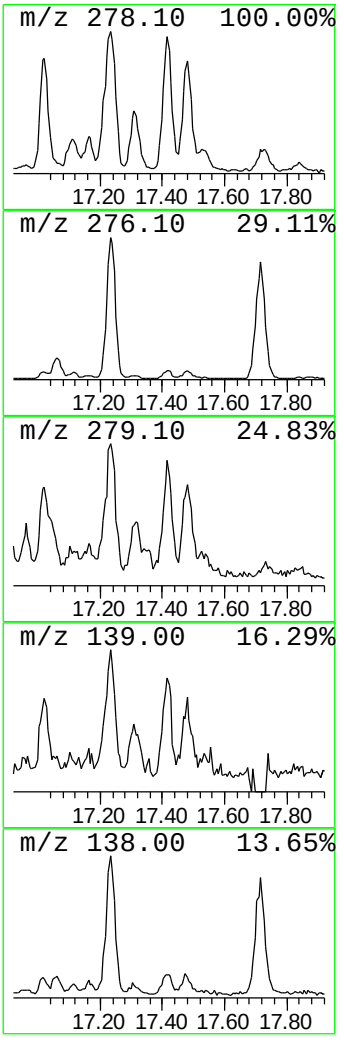
Peak Number 20 Benzo[b]triphenylene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.42	5.84 ng	113609	Perylene-d12	15.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	97
2	Pentaphene	278	C22H14	000222-93-5	89
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	89
4	Benzo[b]chrysene	278	C22H14	000214-17-5	89
5	Picene	278	C22H14	000213-46-7	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF111518\
Data File : BF110796.D
Acq On : 15 Nov 2018 18:50
Operator : JU/SJ
Sample : J5767-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-111418-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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
unknown6.70	6.70	36.7	ng	715442	1	6.94	390152	20.0
9H-Fluorene, 1-me...	11.08	5.4	ng	138824	4	11.47	511613	20.0
Dibenzothiophene	11.37	5.8	ng	149052	4	11.47	511613	20.0
Phenanthrene, 2-m...	11.97	15.1	ng	384934	4	11.47	511613	20.0
4H-Cyclopenta[def...	12.09	21.4	ng	548560	4	11.47	511613	20.0
Anthracene, 9-met...	12.11	7.8	ng	199591	4	11.47	511613	20.0
Tricyclo[8.2.2.2(...	12.27	8.3	ng	213128	4	11.47	511613	20.0
9,10-Anthracenedione	12.31	5.7	ng	145420	4	11.47	511613	20.0
Phenanthrene, 2,5...	12.53	11.2	ng	287011	4	11.47	511613	20.0
Pyrene, 4,5,9,10-...	12.57	6.8	ng	172908	4	11.47	511613	20.0
Cyclopenta(def)ph...	12.63	7.7	ng	197187	4	11.47	511613	20.0
Fluoranthene, 2-m...	13.26	5.6	ng	524778	5	14.13	1886610	20.0
1,2'-Binaphthalene	15.04	6.8	ng	131357	6	15.66	388854	20.0
Dinaphtho[1,2-b:1...	15.41	5.5	ng	106242	6	15.66	388854	20.0
Benzo[e]pyrene	15.53	27.4	ng	533122	6	15.66	388854	20.0
Benzo[b]triphenylene	17.42	5.8	ng	113609	6	15.66	388854	20.0