LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

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-BF012519.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	5.469	572	575	591	rBV	787423	815382	10.75%	0.959%
2	6.481	744	747	764	rBV	905378	905965	11.94%	1.065%
3	6.616	766	770	777	rBV	1069621	962924	12.69%	1.132%
4	6.839	805	808	822	rVB	1628771	1453571	19.16%	1.709%
5	6.998	831	835	846	rBV	886165	770020	10.15%	0.905%
6	7.398	900	903	914	rBV	627982	597002	7.87%	0.702%
7	8.122	1022	1026	1038	rBV	2286122	2214048	29.18%	2.603%
8	8.933	1160	1164	1173	rVB	96032	99405	1.31%	0.117%
9	9.192	1202	1208	1220	rBV	1298420	1268088	16.71%	1.491%
10	9.539	1263	1267	1269	rVV	101238	110660	1.46%	0.130%
11	9.586	1273	1275	1280	rVV	92673	85143	1.12%	0.100%
12	9.880	1317	1325	1328	rBV	2576802	2397749	31.60%	2.819%
13	9.910	1328	1330	1334	rVB	884368	667169	8.79%	0.784%
14	10.080	1355	1359	1364	rBV	302798	289592	3.82%	0.340%
15	10.427	1414	1418	1423	rVB	473428	464060	6.12%	0.546%
16	10.580	1442	1444	1448	rVB	169511	147280	1.94%	0.173%
17	10.669	1455	1459	1465	rBV	734286	782690	10.31%	0.920%
18	10.792	1473	1480	1485	rVB3	80577	111690	1.47%	0.131%
19	10.957	1504	1508	1509	rBV2	77906	91235	1.20%	0.107%
20	10.974	1509	1511	1513	rVB2	105078	88722	1.17%	0.104%
21	11.098	1527	1532	1534	rBV2	100221	131959	1.74%	0.155%
22	11.169	1541	1544	1548	rVB	456761	370572	4.88%	0.436%
23	11.221	1548	1553	1556	rVV2	198650	242099	3.19%	0.285%
24	11.257	1556	1559	1565	rVB	313054	318922	4.20%	0.375%
25	11.363	1573	1577	1579	rBV	2106867	2063087	27.19%	2.425%
26	11.392	1579	1582	1585	rVV	5792970	5093957	67.13%	5.988%
27	11.439	1587	1590	1593	rVV	1359913	1117780	14.73%	1.314%
28	11.474	1593	1596	1602	rVB2	136179	166262	2.19%	0.195%
29	11.592	1611	1616	1624	rBV2	821106	910472	12.00%	1.070%
30	11.657	1624	1627	1631	rVV3	147013	155058	2.04%	0.182%
31	11.698	1631	1634	1639	rVV5	142624	157777	2.08%	0.185%
32	11.774	1645	1647	1652	rVB	74070	78733	1.04%	0.093%
33	11.863	1657	1662	1665	rVV	690042	664997	8.76%	0.782%
34	11.892	1665	1667	1671	rVB	1024760	822854	10.84%	0.967%

LSC Area Percent Report

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Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

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-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.939	1671	1675	1678	rBV	293500	264636	3.49%	0.311%
36	11.974	1678	1681	1684	rBV2	1013573	1170736	15.43%	1.376%
37	11.998	1684	1685	1689	rVB	462447	301348	3.97%	0.354%
38	12.045	1689	1693	1695	rBV	97621	109605	1.44%	0.129%
39	12.068	1695	1697	1700	rVB	105987	88818	1.17%	0.104%
40	12.157	1709	1712	1715	rBV	497318	431099	5.68%	0.507%
41	12.186	1715	1717	1723	rVB	696088	597462	7.87%	0.702%
42	12.310	1733	1738	1741	rBV	181793	205046	2.70%	0.241%
43	12.339	1741	1743	1745	rVV	148490	117017	1.54%	0.138%
44	12.363	1745	1747	1750	rVB	131485	108893	1.43%	0.128%
45	12.416	1752	1756	1758	rBV	301286	326211	4.30%	0.383%
46	12.451	1758	1762	1764	rVV4	170010	279542	3.68%	0.329%
47	12.504	1768	1771	1775	rVV	478871	479328	6.32%	0.563%
48	12.586	1780	1785	1788	rVV	6428432	6687818	88.13%	7.862%
49	12.621	1788	1791	1792	rVV	110978	115491	1.52%	0.136%
50	12.639	1792	1794	1797	rVB	196157	165952	2.19%	0.195%
51	12.727	1802	1809	1812	rBV3	247840	455272	6.00%	0.535%
52	12.810	1816	1823	1828	rBV2	5330823	7588398	100.00%	8.920%
53	12.851	1828	1830	1835	rVB2	355774	397777	5.24%	0.468%
54	12.939	1839	1845	1847	rBV2	1121000	1328601	17.51%	1.562%
55	12.963	1847	1849	1853	rVB	473801	446368	5.88%	0.525%
56	13.021	1854	1859	1863	rBV2	433894	733086	9.66%	0.862%
57	13.051	1863	1864	1867	rVB	134845	94748	1.25%	0.111%
58	13.110	1870	1874	1875	rBV3	371707	415606	5.48%	0.489%
59	13.133	1875	1878	1881	rVB	700685	719568	9.48%	0.846%
60	13.163	1881	1883	1886	rBV2	96009	102645	1.35%	0.121%
61	13.198	1886	1889	1891	rBV	335170	274126	3.61%	0.322%
62	13.239	1891	1896	1898	rBV2	598705	723162	9.53%	0.850%
63	13.257	1898	1899	1903	rVB	268963	217681	2.87%	0.256%
64	13.292	1903	1905	1908	rVB	174512	141157	1.86%	0.166%
65	13.333	1908	1912	1914	rBV	330614	333425	4.39%	0.392%
66	13.363	1914	1917	1920	rBV2	350395	347899	4.58%	0.409%
67	13.510	1940	1942	1944	rBV2	113176	115002	1.52%	0.135%
68	13.557	1948	1950	1953	rVB	162950	136546	1.80%	0.161%
69	13.645	1962	1965	1969	rVB	869353	777786	10.25%	0.914%
70	13.751	1979	1983	1985	rBV	728280	711129	9.37%	0.836%
71	13.780	1985	1988	1990	rVV	578404	593434	7.82%	0.698%

LSC Area Percent Report

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Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.804	1990	1992	1997	rVV2	487742	823293	10.85%	0.968%
73	13.851	1997	2000	2007	rVB	980614	927440	12.22%	1.090%
74	13.921	2009	2012	2017	rVB	139440	161102	2.12%	0.189%
75	13.998	2018	2025	2029	rBV2	3808563	5965835	78.62%	7.013%
76	14.033	2029	2031	2034	rVV	3407449	2764689	36.43%	3.250%
77	14.086	2038	2040	2042	rBV2	84618	92496	1.22%	0.109%
78	14.110	2042	2044	2047	rVV	432196	352037	4.64%	0.414%
79	14.151	2049	2051	2054	rVV2	161490	225430	2.97%	0.265%
80	14.192	2056	2058	2061	rVV2	270647	252538	3.33%	0.297%
81	14.227	2061	2064	2067	rVV2	398241	478233	6.30%	0.562%
82	14.262	2068	2070	2072	rVB3	141908	109787	1.45%	0.129%
83	14.392	2087	2092	2094	rBV	554950	599347	7.90%	0.705%
84	14.421	2094	2097	2101	rVB3	309634	336071	4.43%	0.395%
85	14.462	2101	2104	2107	rBV3	223469	276535	3.64%	0.325%
86	14.515	2110	2113	2115	rBV	310389	327430	4.31%	0.385%
87	14.533	2115	2116	2120	rVB2	251190	168079	2.21%	0.198%
88	14.704	2142	2145	2147	rBV2	208057	204950	2.70%	0.241%
89	14.762	2153	2155	2162	rVB5	129450	171898	2.27%	0.202%
90	14.880	2172	2175	2179	rBV3	309394	387618	5.11%	0.456%
91	15.051	2198	2204	2207	rBV	2814542	4752206	62.62%	5.586%
92	15.151	2218	2221	2225	rBV	455886	438905	5.78%	0.516%
93	15.239	2233	2236	2237	rBV2	199330	218780	2.88%	0.257%
94	15.351	2250	2255	2261	rVB	1514940	2096215	27.62%	2.464%
95	15.415	2261	2266	2270	rBV	2104986	2622778	34.56%	3.083%
96	15.474	2271	2276	2278	rBV	1220834	1591994	20.98%	1.871%
97	15.504	2278	2281	2287	rVB2	572941	819469	10.80%	0.963%
98	15.904	2345	2349	2354	rVB2	202427	354261	4.67%	0.416%
99	16.945	2520	2526	2533	rBV	874404	1582275	20.85%	1.860%
100	17.392	2596	2602	2615	rVB	579708	1246782	16.43%	1.466%

Sum of corrected areas: 85067815

LSC Report - Integrated Chromatogram

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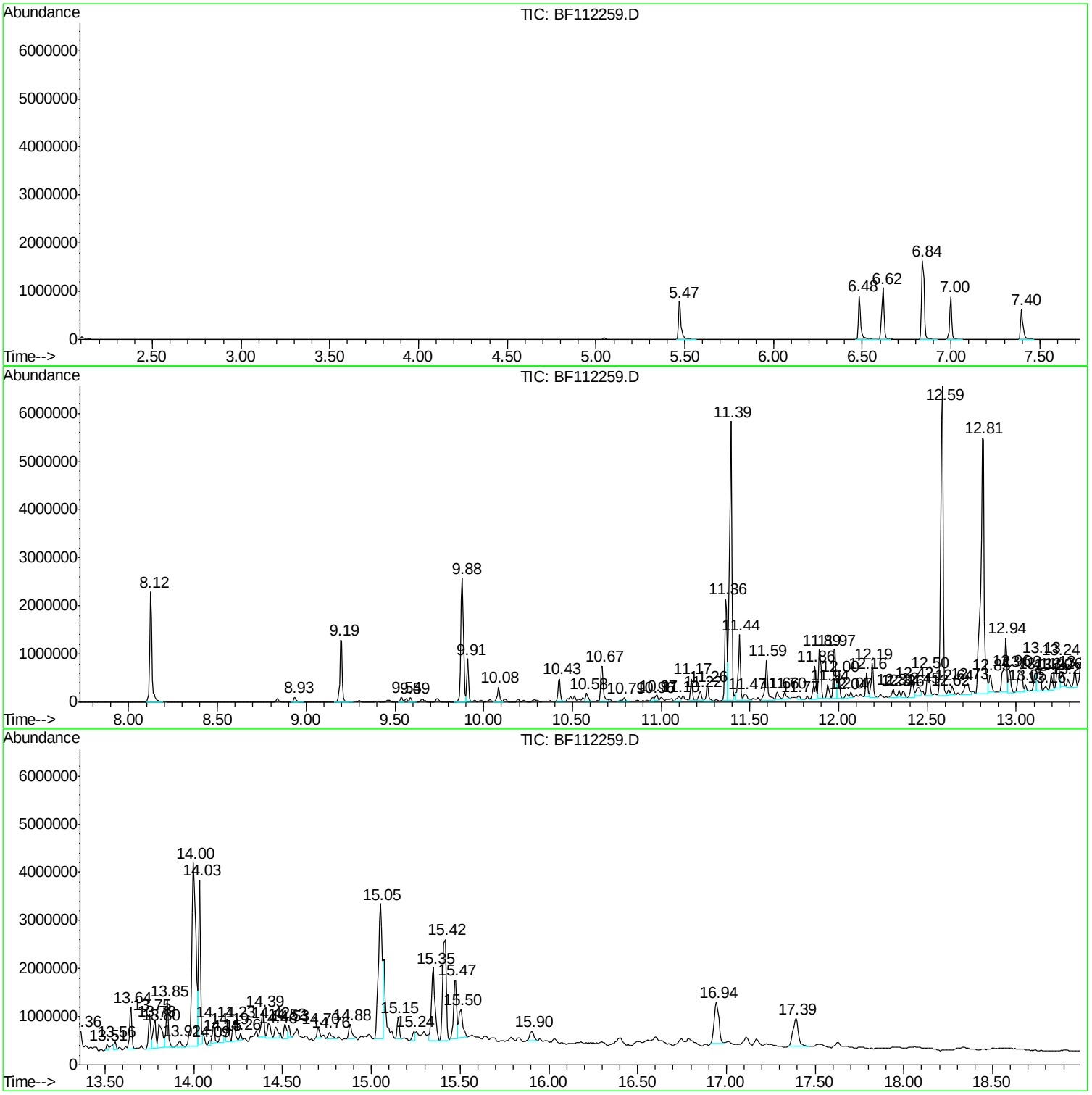
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

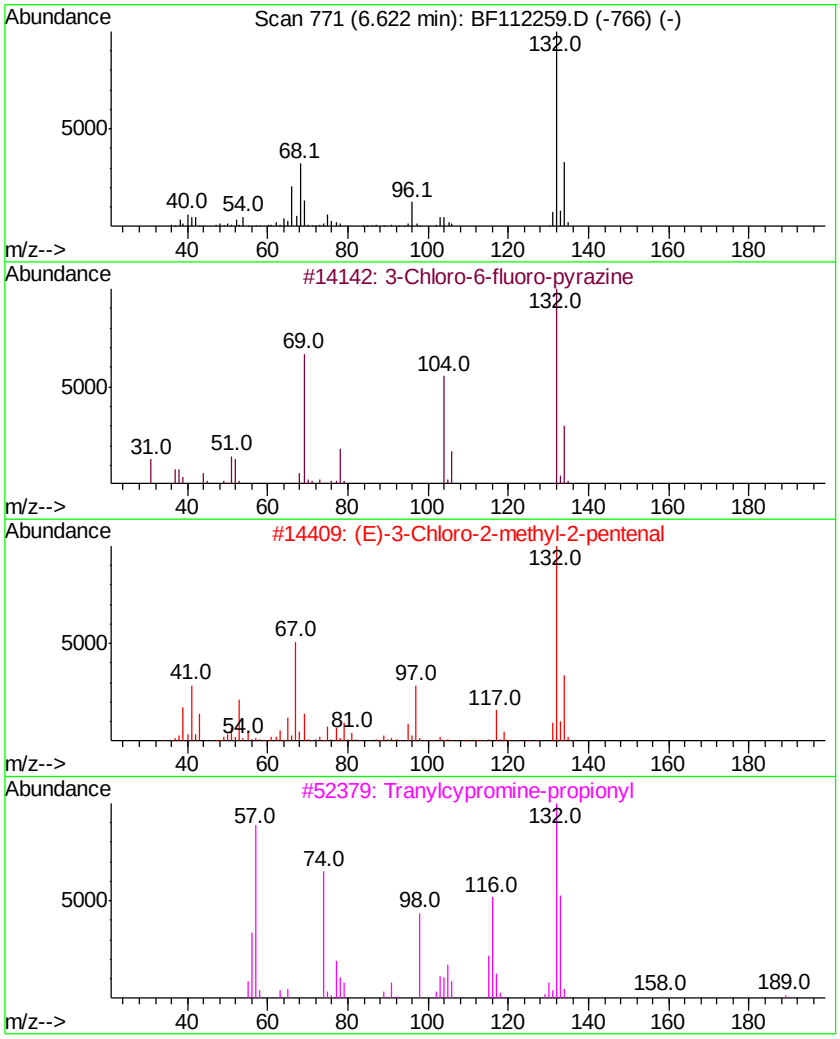
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

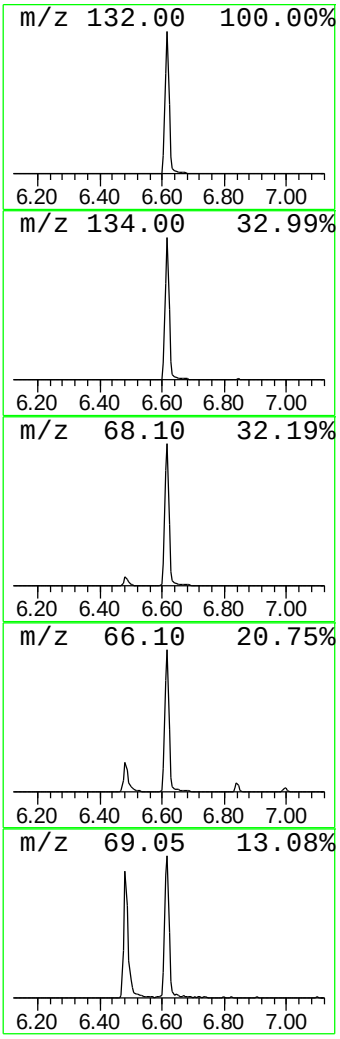
****

Peak Number 1 unknown6.62 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	13.25 ng	962924	1,4-Dichlorobenzene-d4	6.84

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
4	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Library Search Compound Report

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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

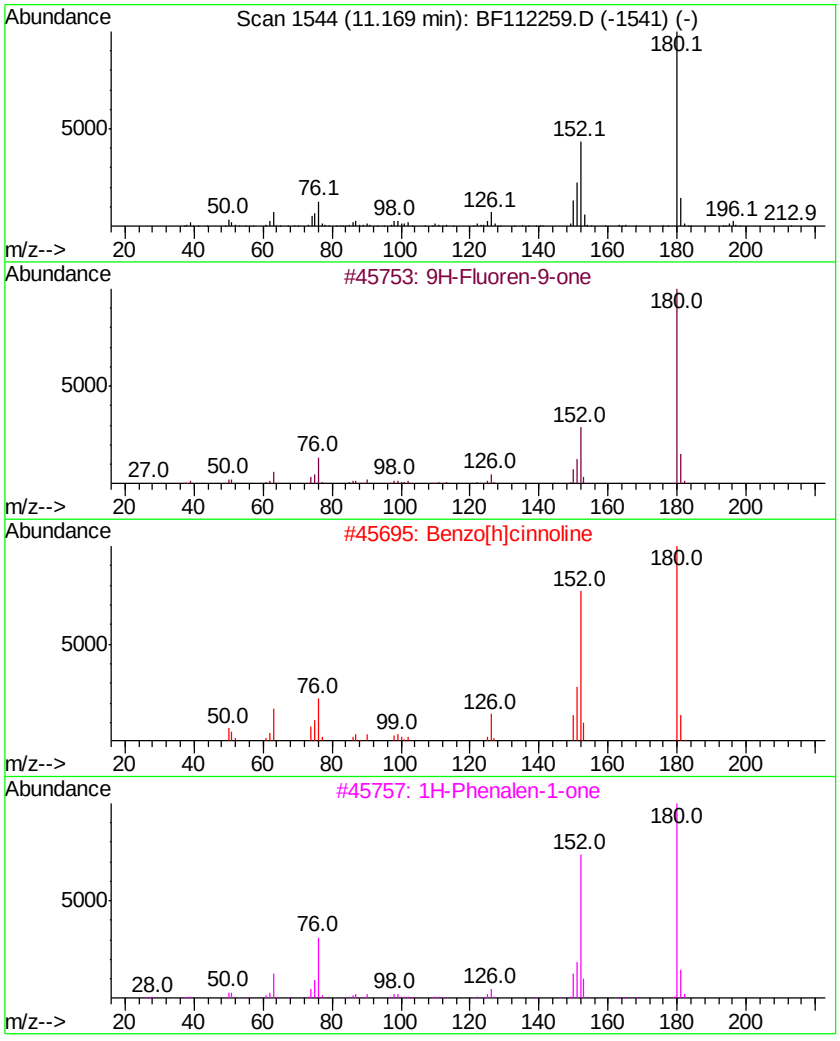
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

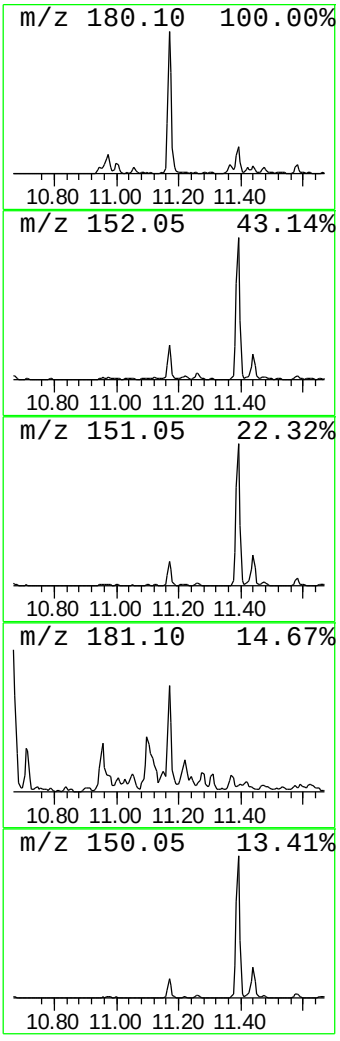
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.17	3.59 ng	370572	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	52
4	Phenazine	180	C12H8N2	000092-82-0	47
5	1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	45





Library Search Compound Report

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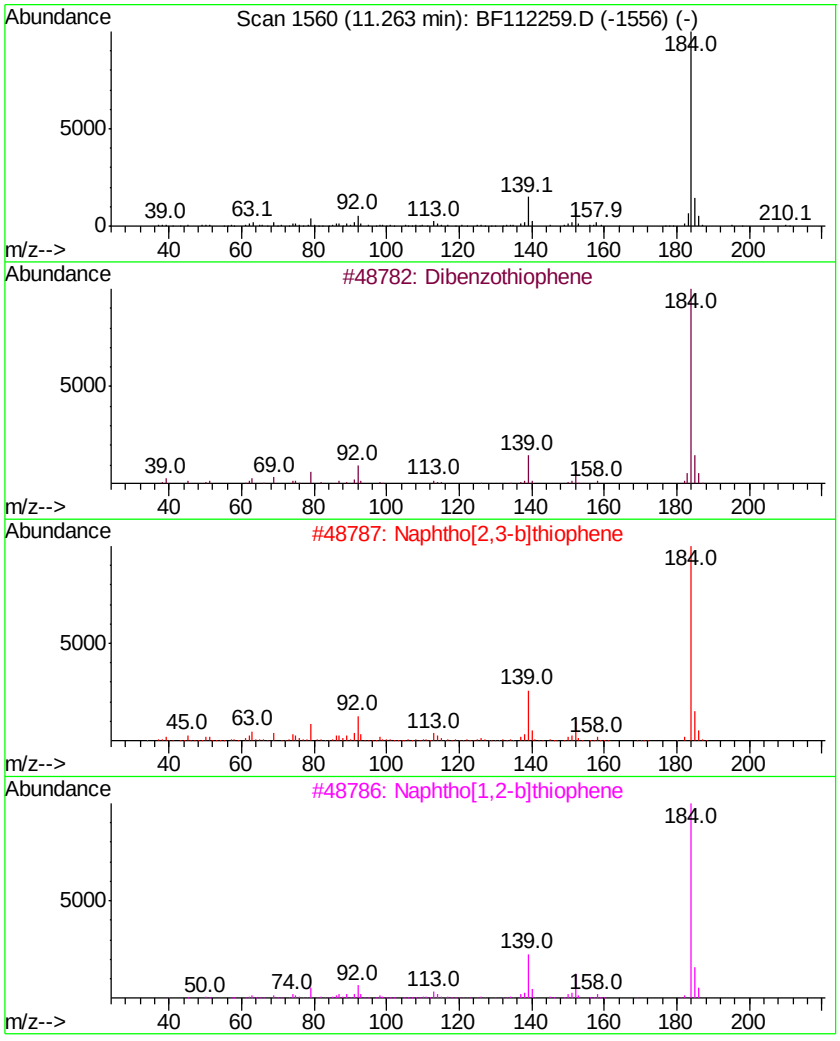
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

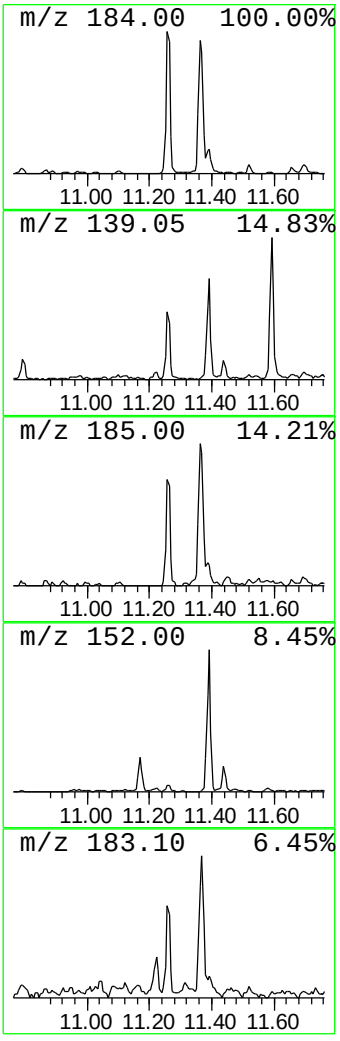
****

Peak Number 4 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	3.09 ng	318922	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
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Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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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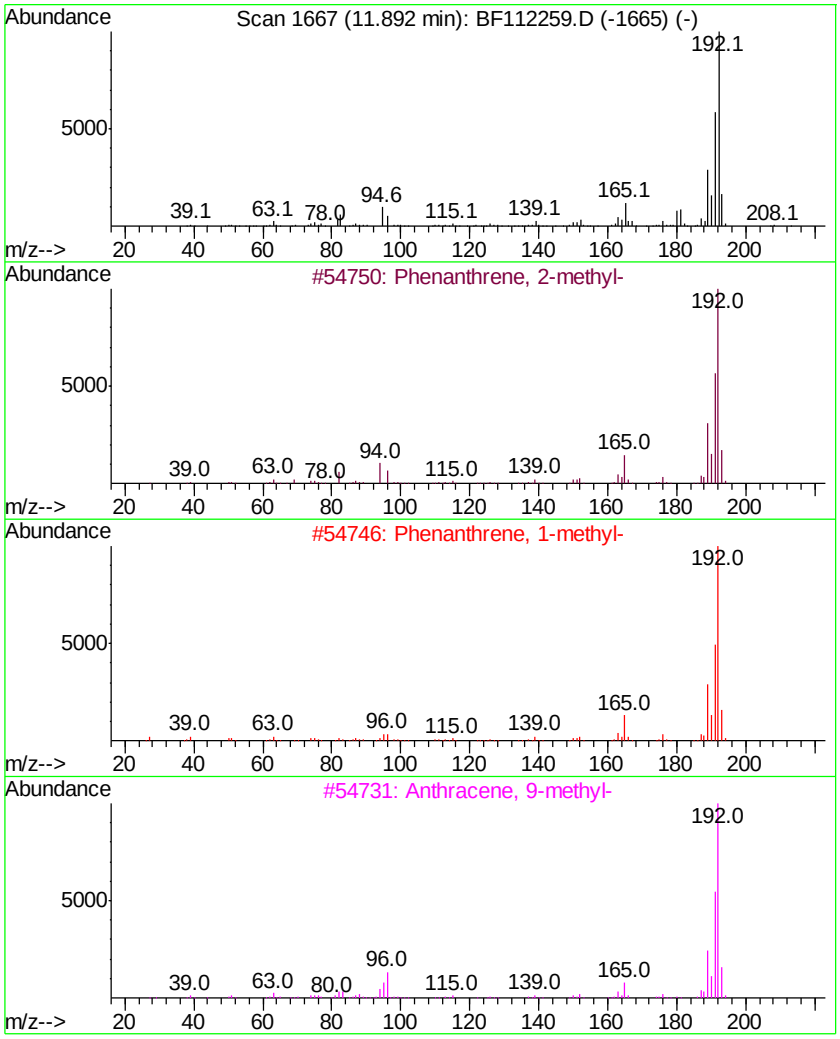
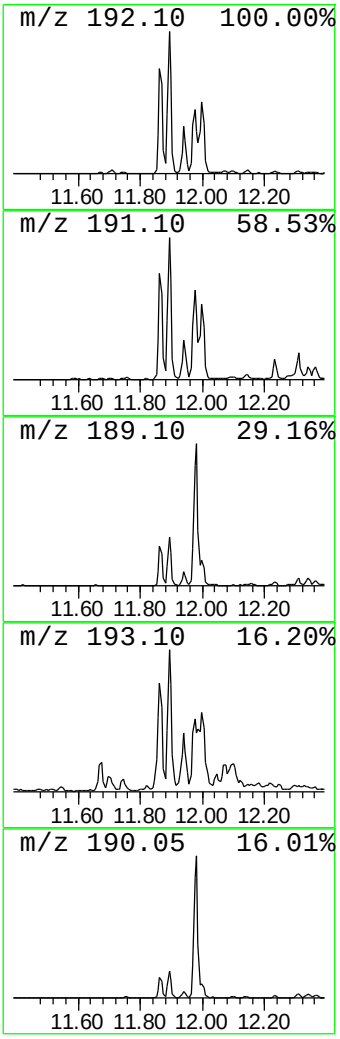
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	7.98 ng	822854	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, 9-methyl-	192	C15H12	000779-02-2	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

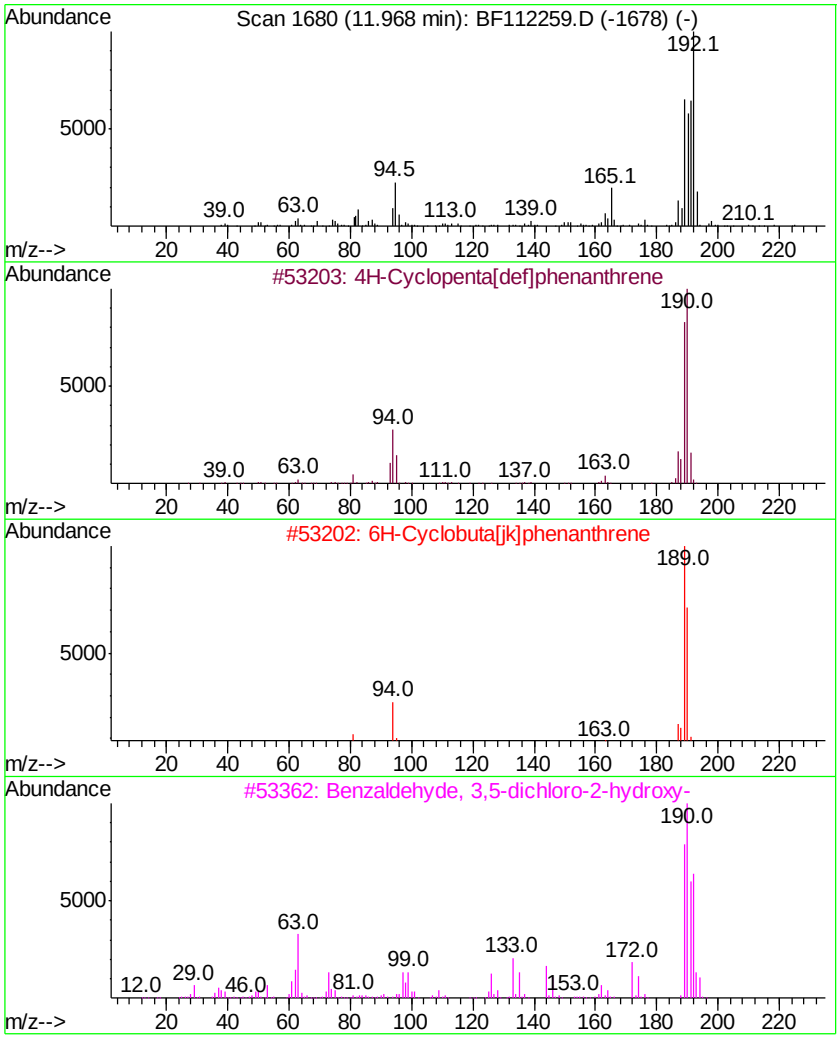
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

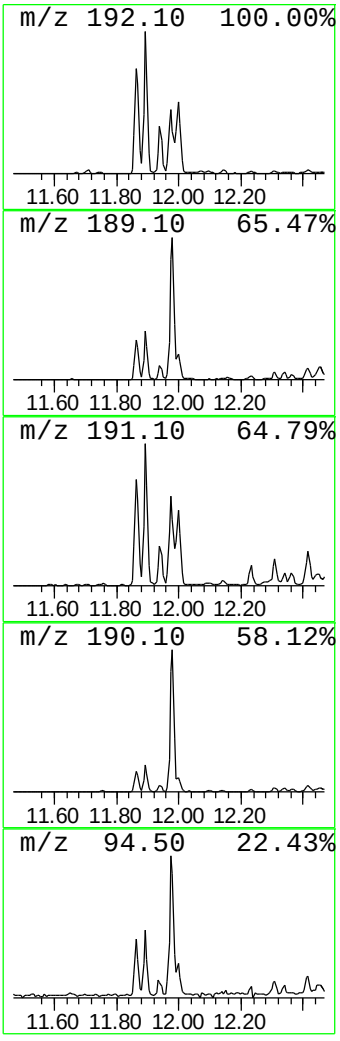
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	11.35 ng	1170740	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	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	53
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30





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Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-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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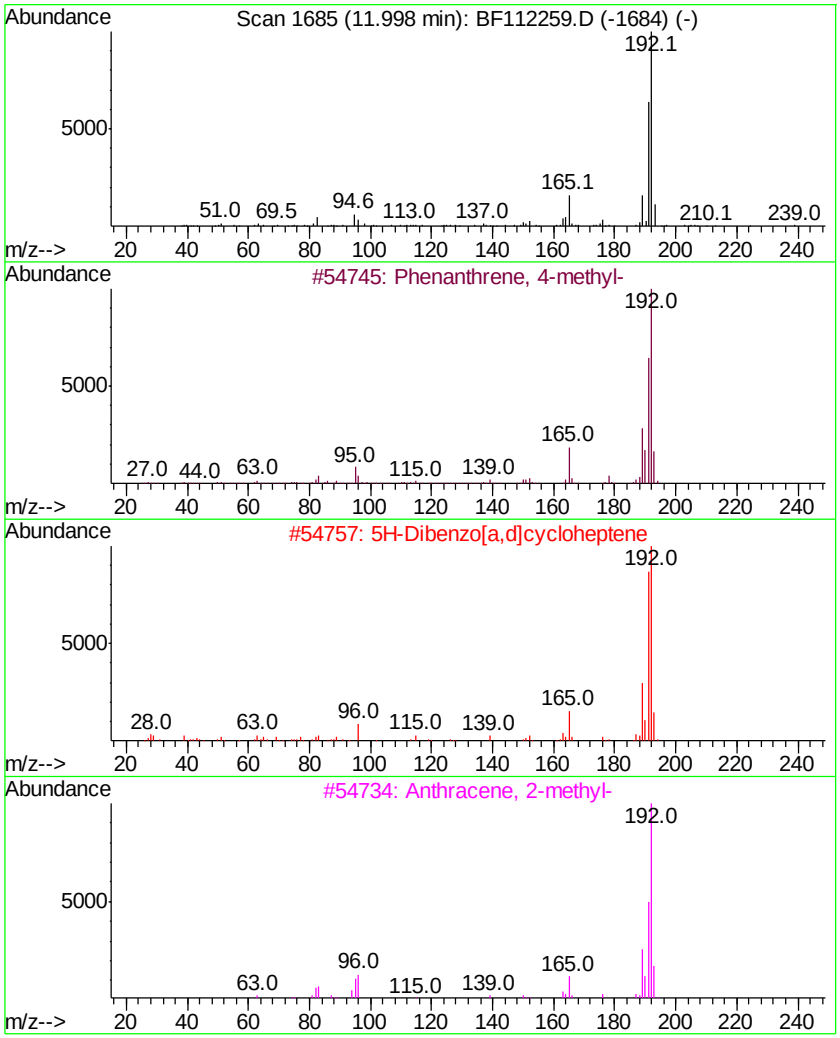
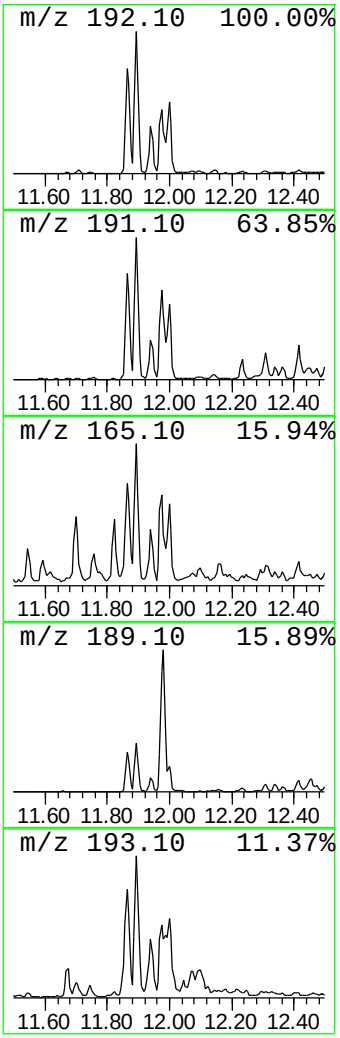
Peak Number 8 Phenanthrene, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	2.92 ng	301348	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	87
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	80





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Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-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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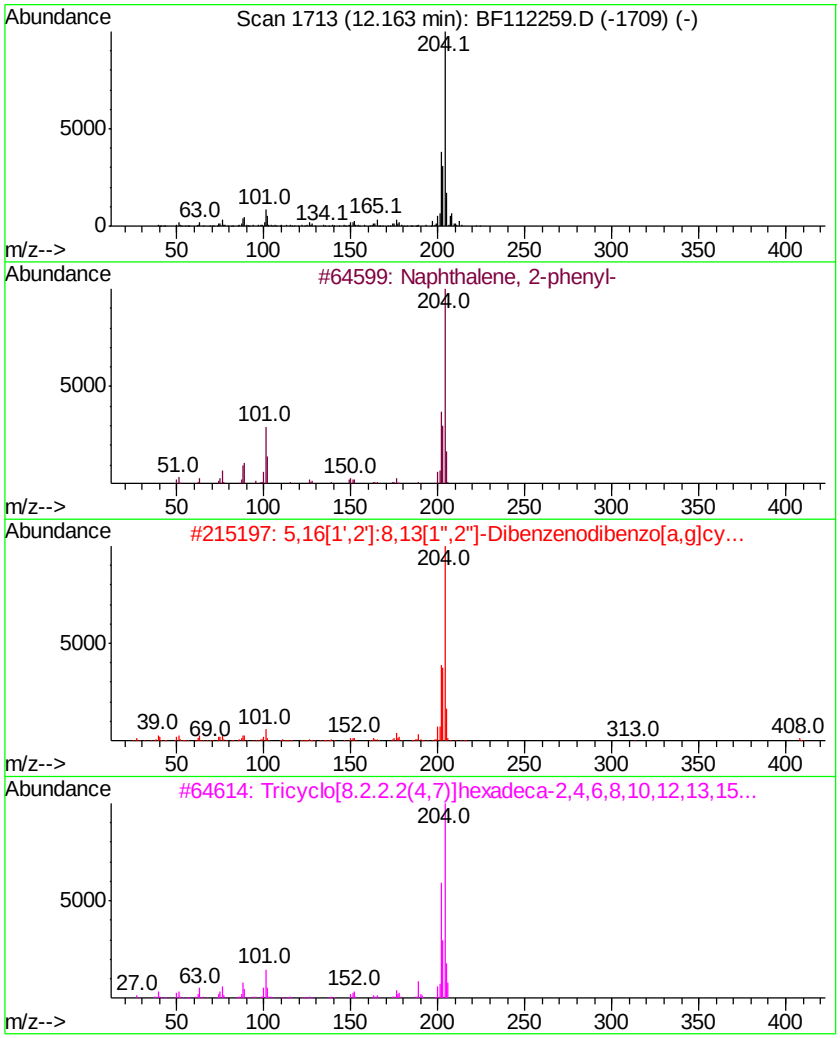
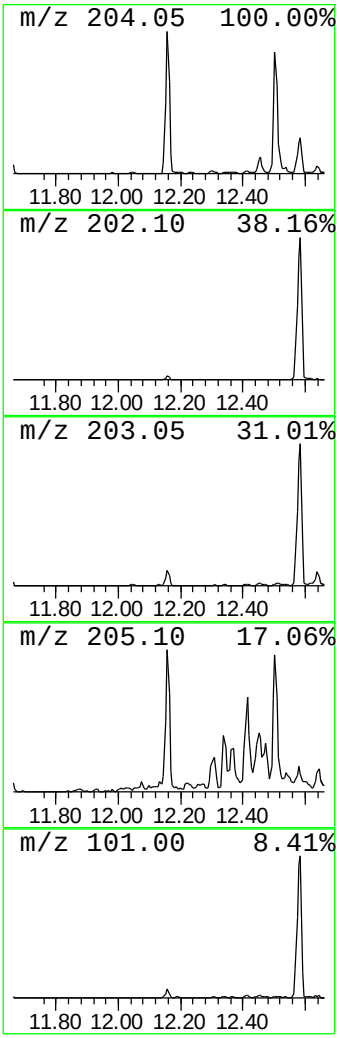
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	4.18 ng	431099	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	80
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	62
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58





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Instrument : BNA_F
ClientSampleId : COMP-1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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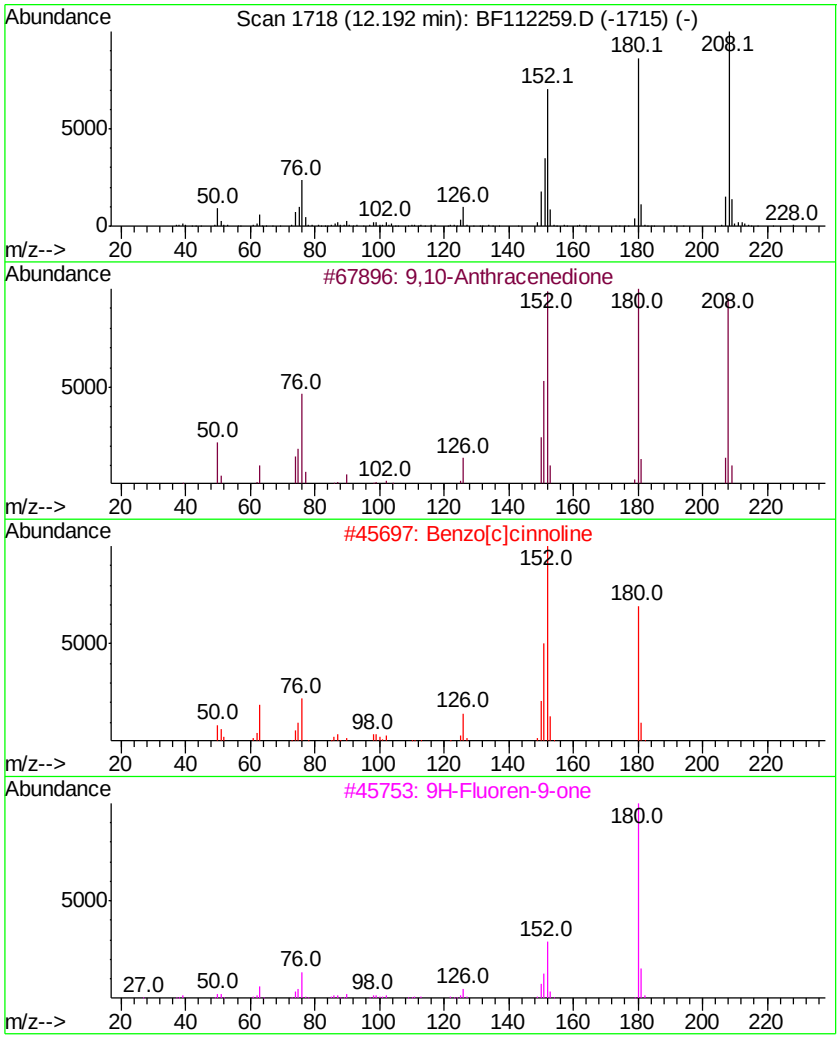
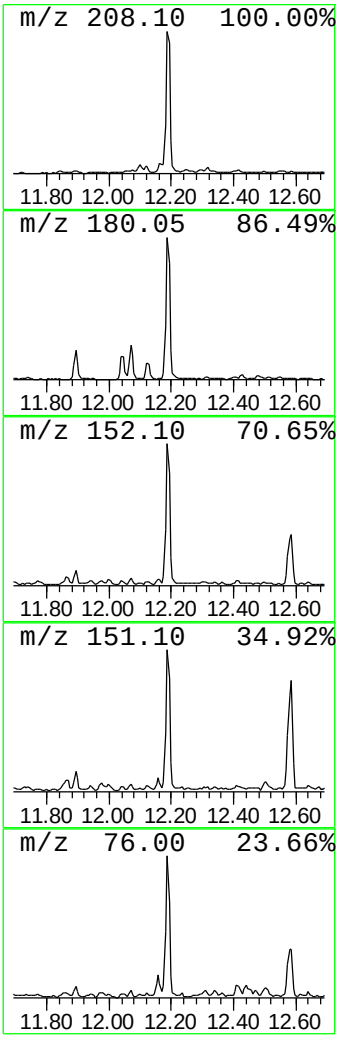
Peak Number 10 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	5.79 ng	597462	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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Sample : K1228-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : COMP-1

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

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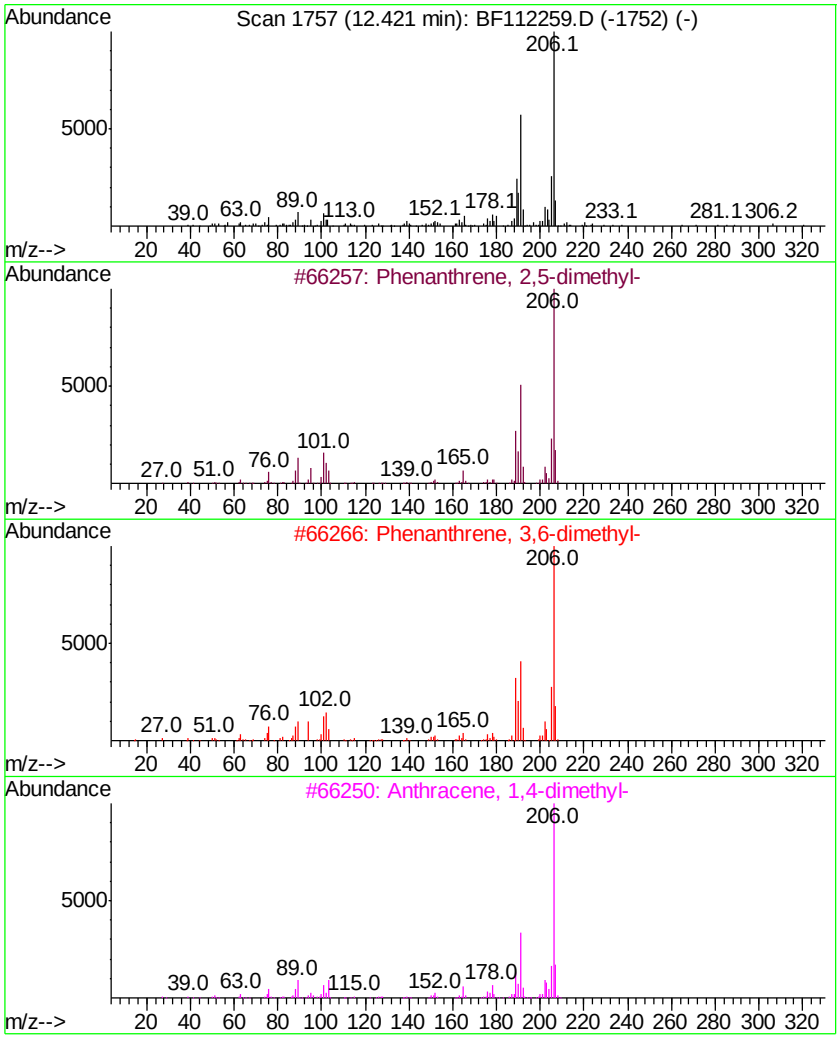
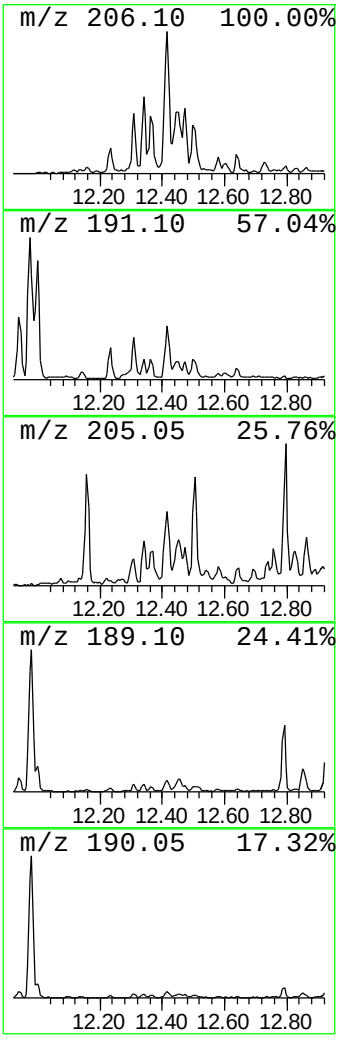
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	3.16 ng	326211	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





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Misc :
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ClientSampleId : COMP-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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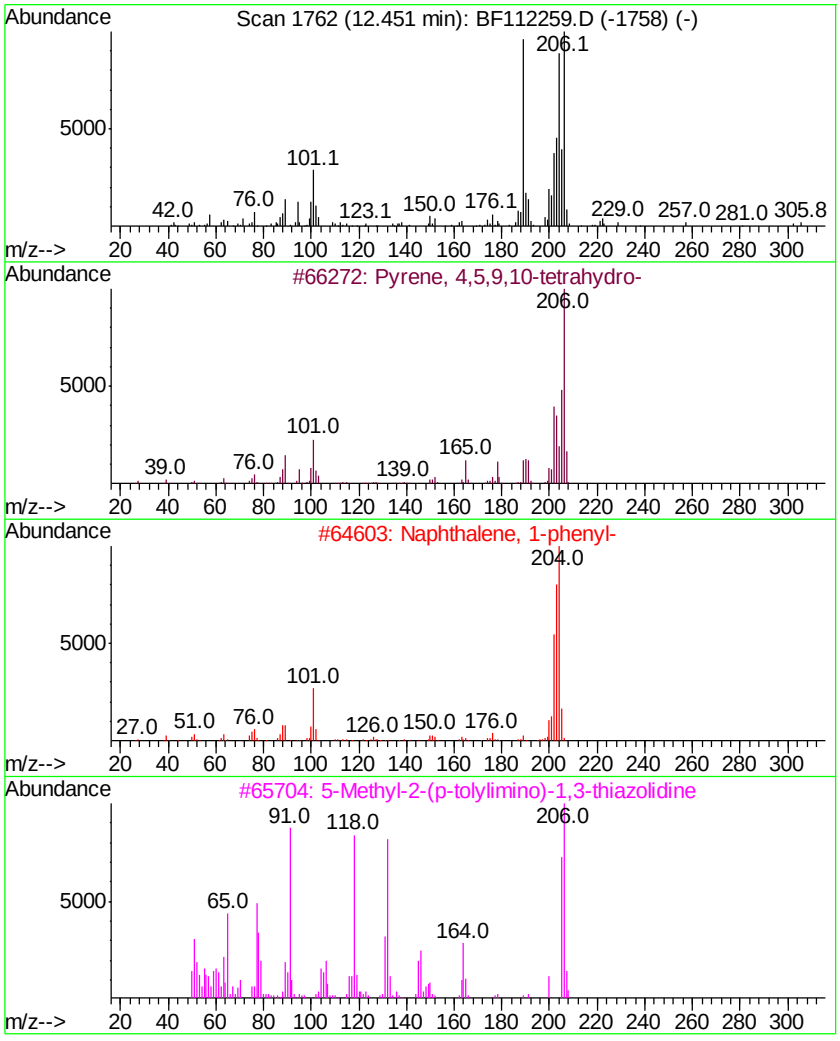
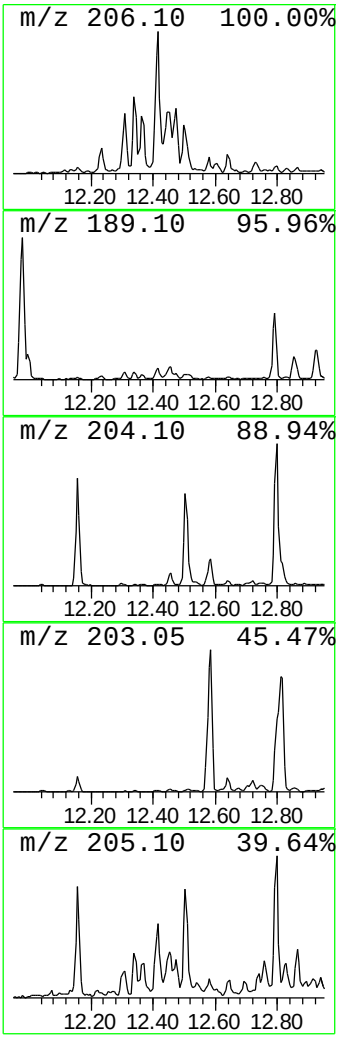
Peak Number 12 unknown12.45 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	2.71 ng	279542	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	35
3	5-Methyl-2-(p-tolylimino)-1,3-th...	206	C11H14N2S	070446-87-6	35
4	2,3-Dimethoxy-5-aminocinnamonitrile	204	C11H12N2O2	1000214-46-5	30
5	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	30





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ClientSampleId : COMP-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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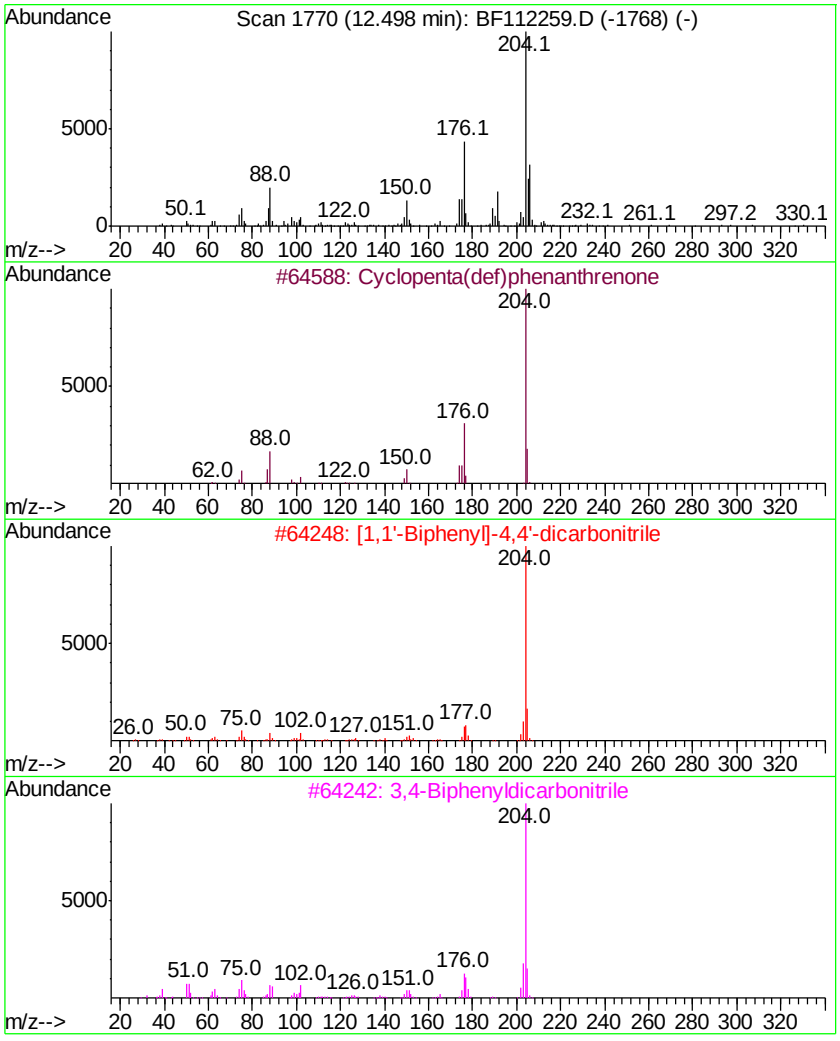
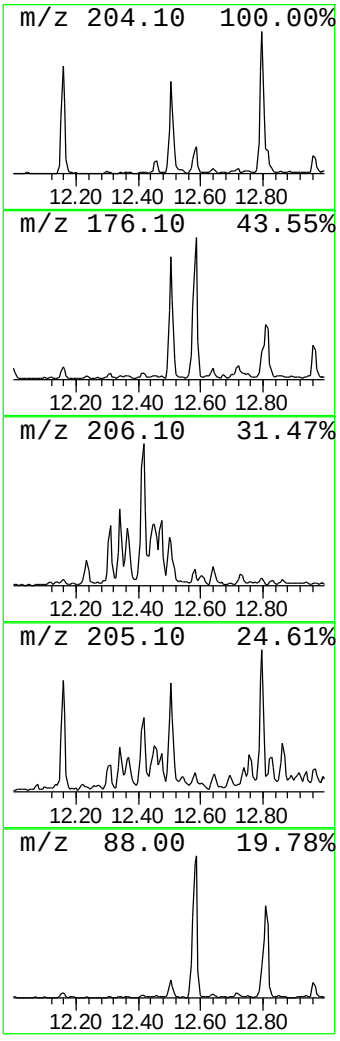
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	4.65 ng	479328	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	64
3	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	56
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50





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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-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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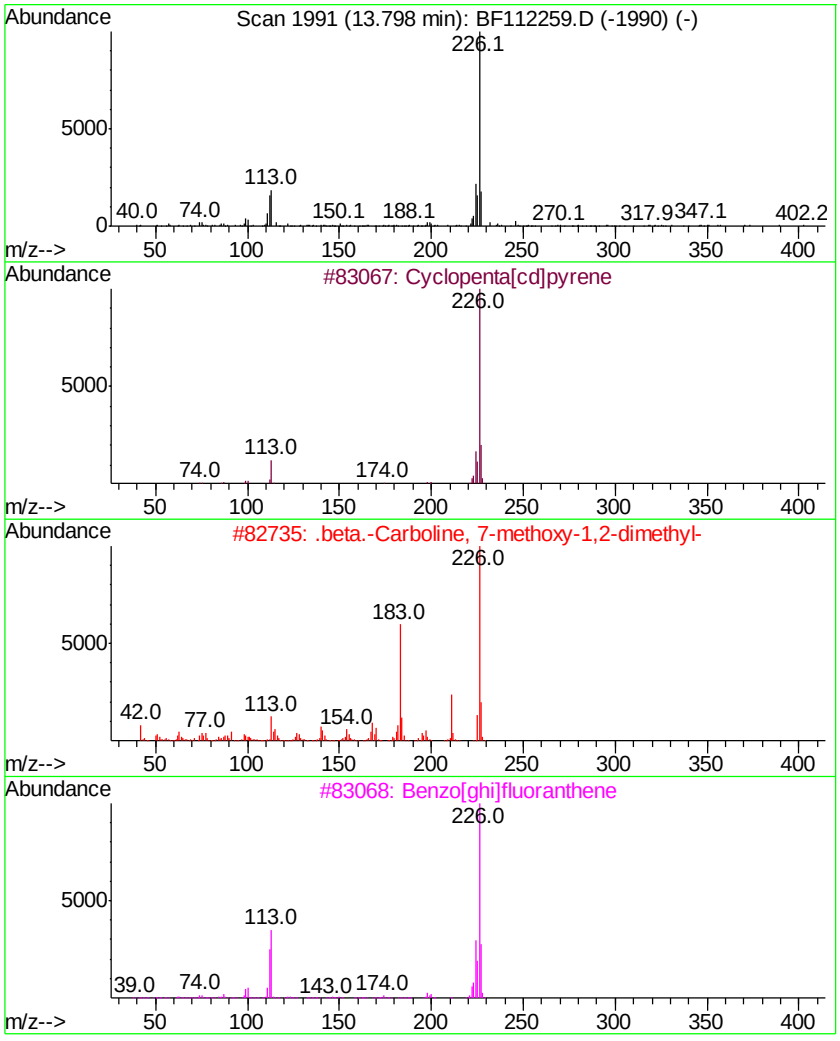
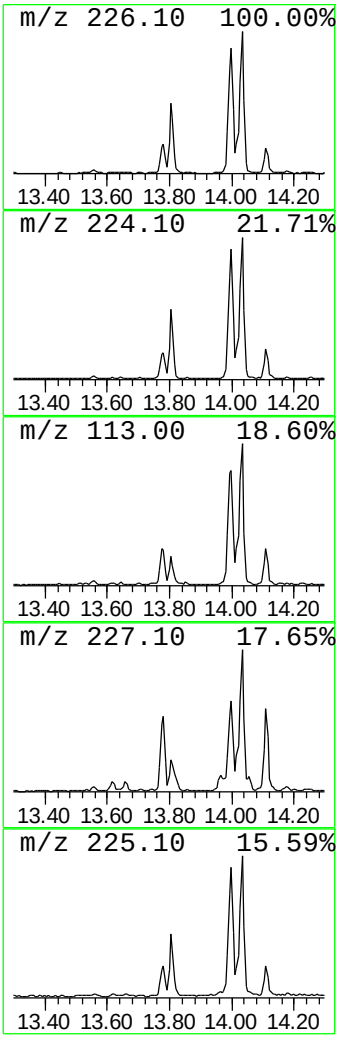
Peak Number 14 Cyclopenta[cd]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	2.76 ng	823293	Chrysene-d12	14.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	70
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	53
3	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	43
4	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	42
5	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	42





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Misc :
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Instrument : BNA_F
ClientSampleId : COMP-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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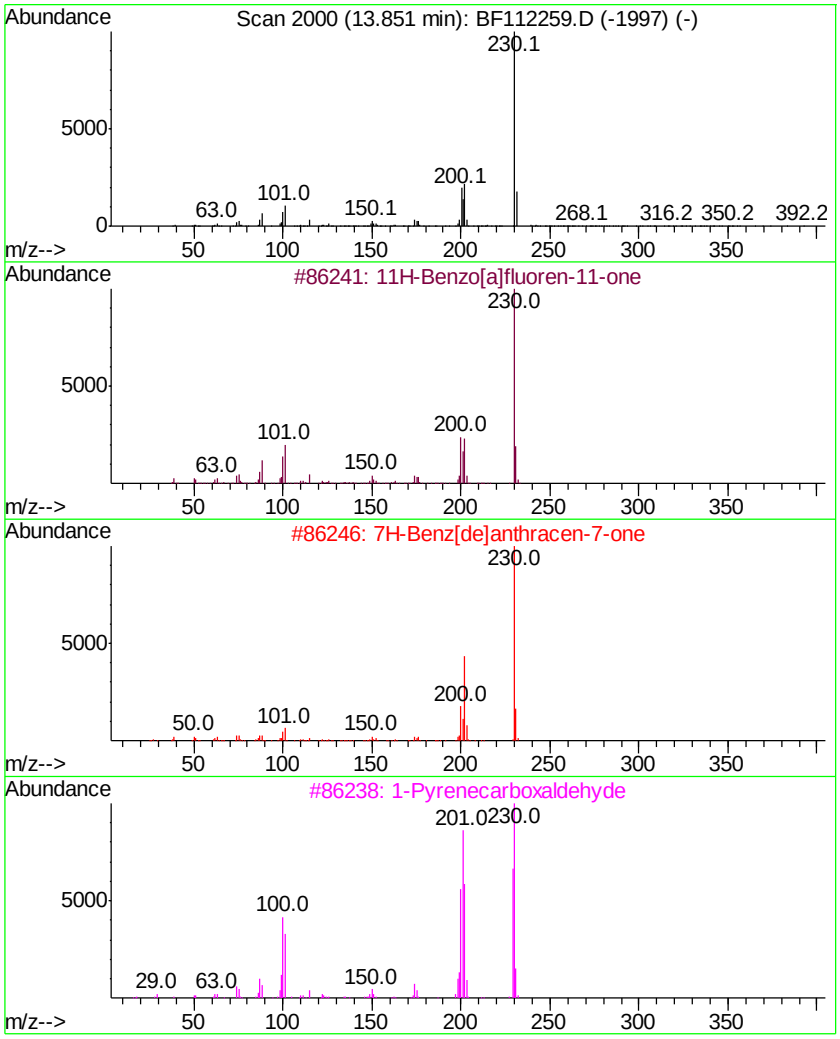
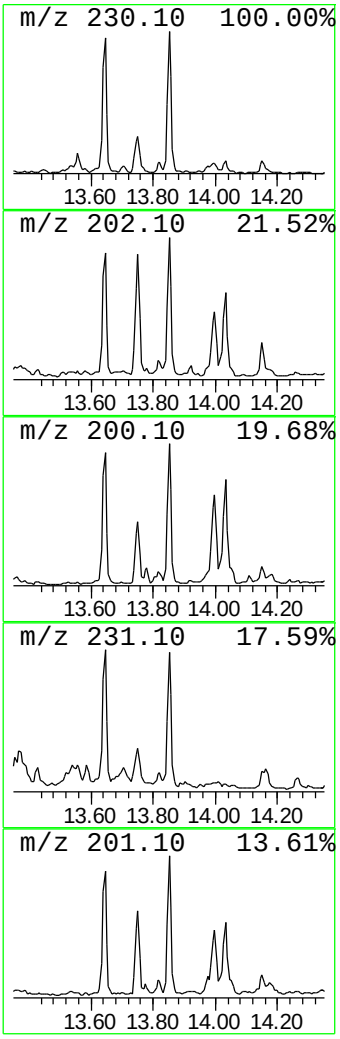
Peak Number 15 11H-Benzo[a]fluoren-11-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.85	3.11 ng	927440	Chrysene-d12	14.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	78
4	o-Terphenyl	230	C18H14	000084-15-1	64
5	4-Isothiazolecarbonitrile, 3,5-b...	230	C8H10N2S3	024135-13-5	59





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

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TIC Integration Parameters: LSCINT.P

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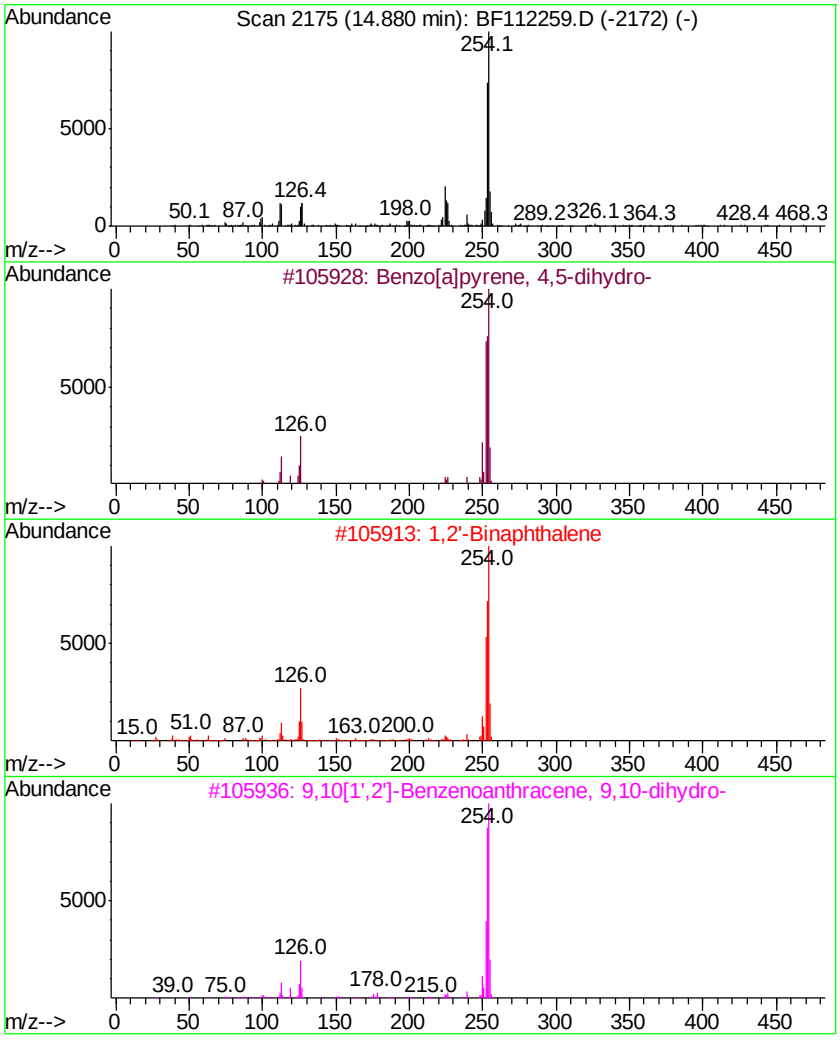
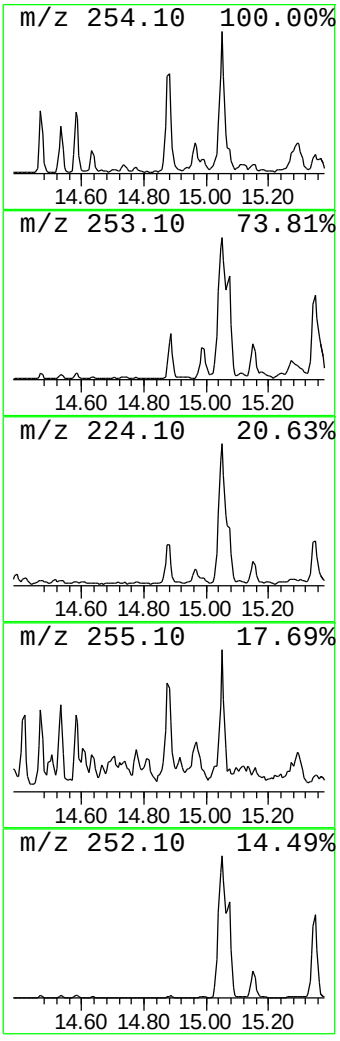
Peak Number 16 Benzo[a]pyrene, 4,5-dihydro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.88	4.87 ng	387618	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	81
2	1,2'-Binaphthalene	254	C20H14	004325-74-0	81
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	81
4	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	80
5	1,1'-Binaphthalene	254	C20H14	000604-53-5	74





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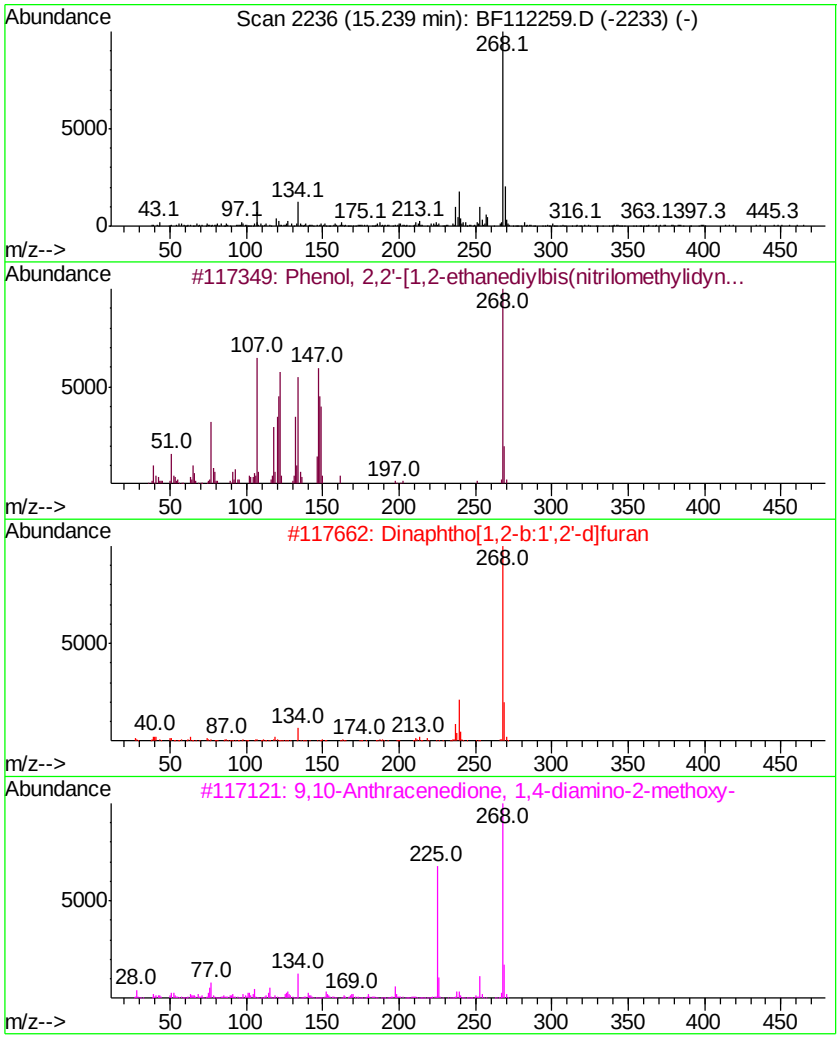
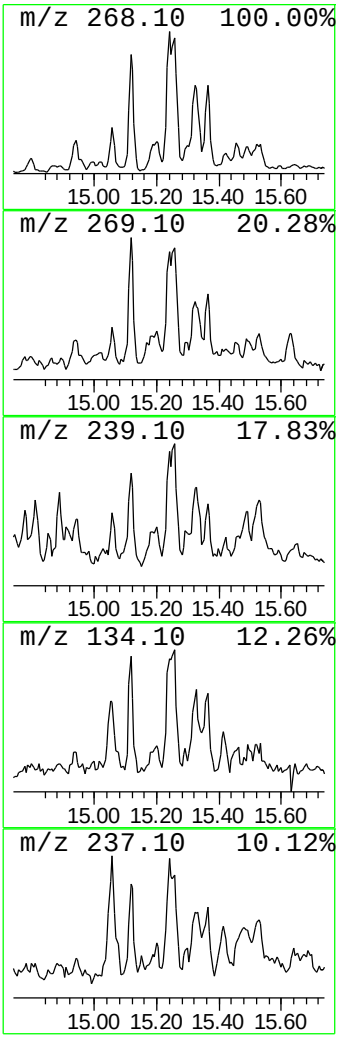
Peak Number 18 Phenol, 2,2'-[1,2-ethanediy... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	2.75 ng	218780	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,2'-[1,2-ethanediylbis(...	268	C16H16N2O2	000094-93-9	96
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	91
3	9,10-Anthracenedione, 1,4-diamin...	268	C15H12N2O3	002872-48-2	72
4	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	72
5	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	68





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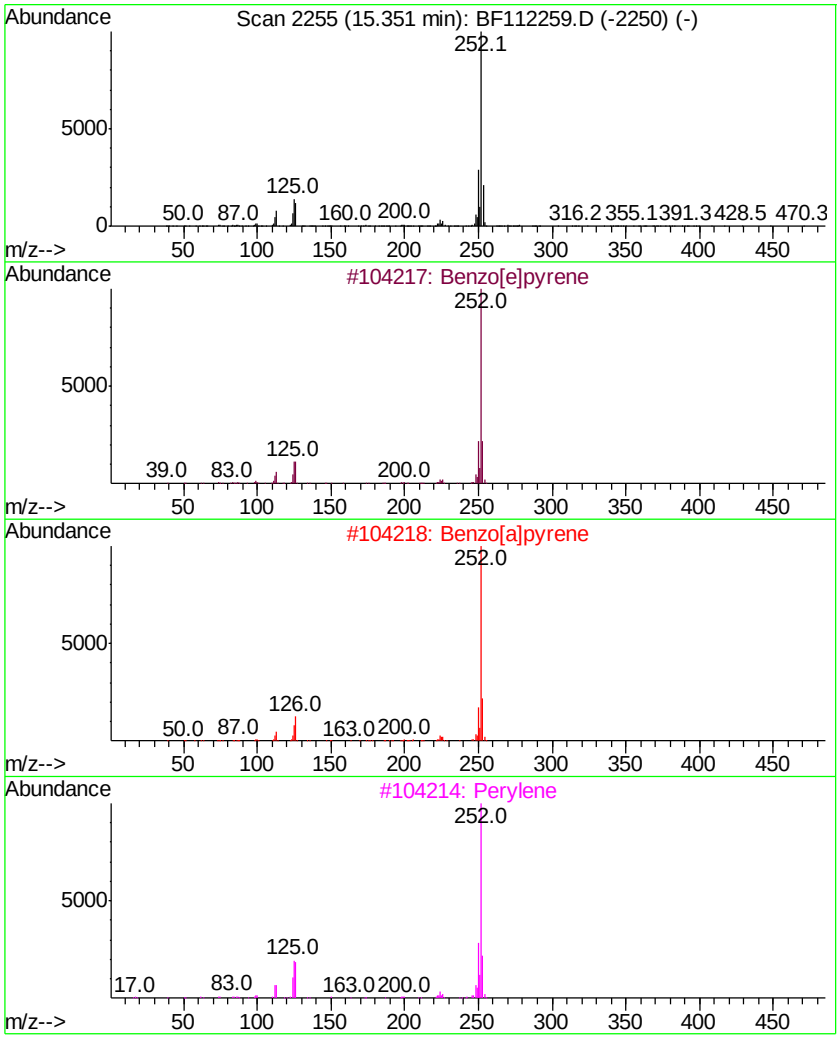
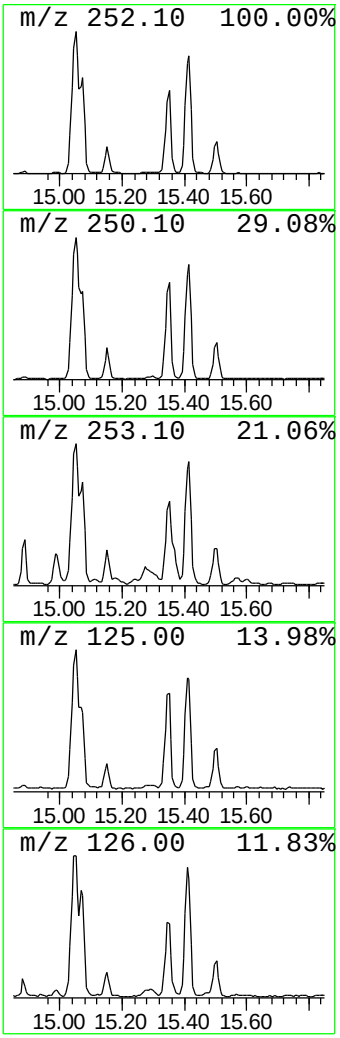
Peak Number 19 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	26.33 ng	2096220	Perylene-d12	15.47

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





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

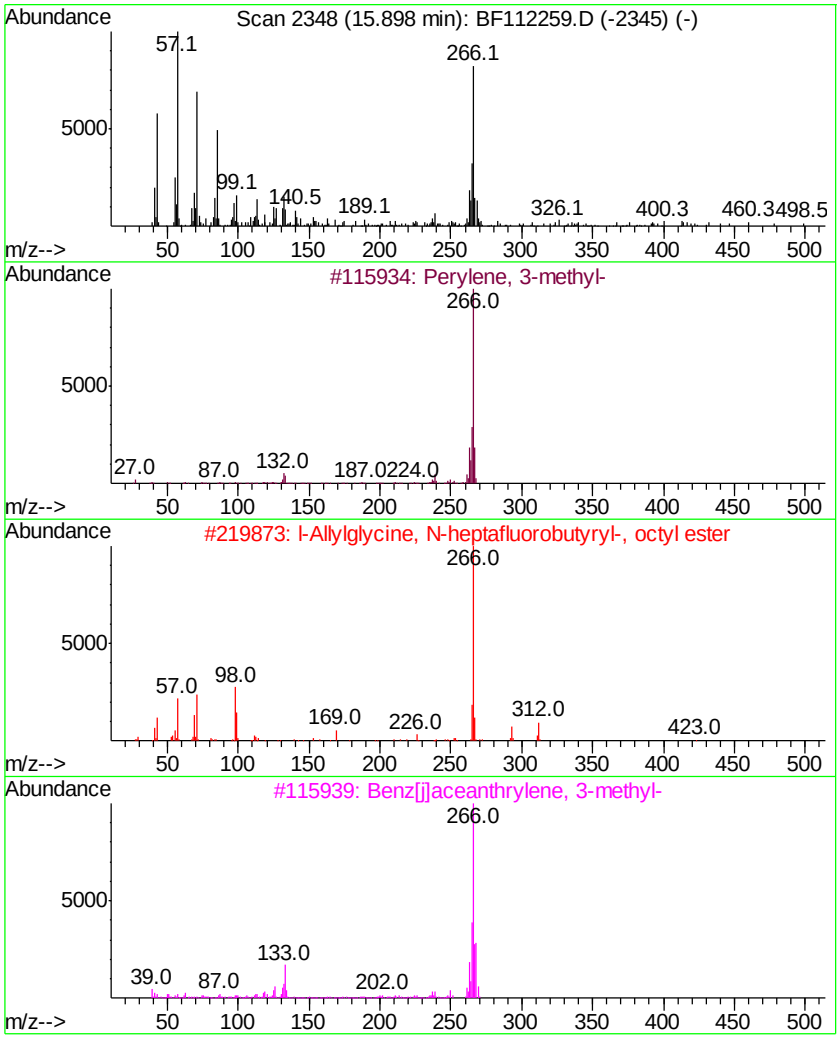
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

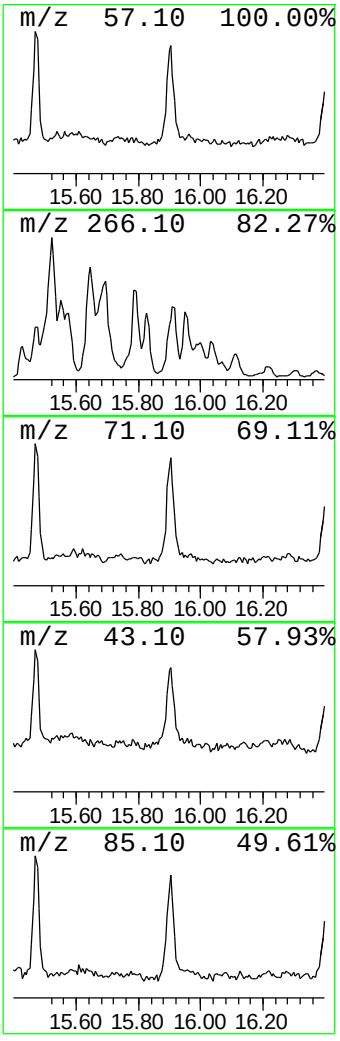
****

Peak Number 20 unknown15.90 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	4.45 ng	354261	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene, 3-methyl-	266	C21H14	024471-47-4	46
2	l-Allylglycine, N-heptafluorobut...	423	C17H24F7NO3	1000325-29-5	43
3	Benz[j]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	38
4	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	35
5	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	30





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF012519\
Data File : BF112259.D
Acq On : 26 Jan 2019 3:47
Operator : JU/SJ
Sample : K1228-01 5X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : COMP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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
unknown6.62	6.62	13.3	ng	962924	1	6.84	1453570	20.0
9H-Fluoren-9-one	11.17	3.6	ng	370572	4	11.36	2063090	20.0
Dibenzothiophene	11.26	3.1	ng	318922	4	11.36	2063090	20.0
Phenanthrene, 2-m...	11.89	8.0	ng	822854	4	11.36	2063090	20.0
4H-Cyclopenta[def...	11.97	11.4	ng	1170740	4	11.36	2063090	20.0
Phenanthrene, 4-m...	12.00	2.9	ng	301348	4	11.36	2063090	20.0
Naphthalene, 2-ph...	12.16	4.2	ng	431099	4	11.36	2063090	20.0
9,10-Anthracenedione	12.19	5.8	ng	597462	4	11.36	2063090	20.0
Phenanthrene, 2,5...	12.42	3.2	ng	326211	4	11.36	2063090	20.0
unknown12.45	12.45	2.7	ng	279542	4	11.36	2063090	20.0
Cyclopenta(def)ph...	12.50	4.7	ng	479328	4	11.36	2063090	20.0
Cyclopenta[cd]pyrene	13.80	2.8	ng	823293	5	14.01	5965840	20.0
11H-Benzo[a]fluor...	13.85	3.1	ng	927440	5	14.01	5965840	20.0
Benzo[a]pyrene, 4...	14.88	4.9	ng	387618	6	15.47	1591990	20.0
Phenol, 2,2'-[1,2...	15.24	2.8	ng	218780	6	15.47	1591990	20.0
Benzo[e]pyrene	15.35	26.3	ng	2096220	6	15.47	1591990	20.0
unknown15.90	15.90	4.5	ng	354261	6	15.47	1591990	20.0