LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\Data\BF041317\
Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

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:\HPCHEM1\BNA_F\METHODS\8270-BF032217.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	3.910	340	344	353	rBV	239261	247707	10.86%	0.628%
2	4.334	412	416	428	rBV	1717159	1635951	71.75%	4.145%
3	5.416	592	600	608	rBV	1788136	1730537	75.90%	4.384%
4	5.539	616	621	624	rBV	1908791	1748823	76.70%	4.431%
5	5.787	659	663	667	rBV	984270	870883	38.19%	2.206%
6	5.963	689	693	697	rBV	1482902	1321032	57.94%	3.347%
7	6.434	768	773	776	rBV	1090335	1010066	44.30%	2.559%
8	7.286	913	918	921	rBV	1211925	1186988	52.06%	3.007%
9	7.310	921	922	926	rVB	210287	160961	7.06%	0.408%
10	8.151	1061	1065	1071	rVB	234826	233177	10.23%	0.591%
11	8.275	1080	1086	1089	rBV	242553	233423	10.24%	0.591%
12	8.610	1134	1143	1146	rBV	1810315	1713111	75.13%	4.340%
13	8.728	1159	1163	1165	rBV	65334	57634	2.53%	0.146%
14	8.839	1179	1182	1189	rVB	49092	64822	2.84%	0.164%
15	8.922	1192	1196	1201	rBV2	87653	134462	5.90%	0.341%
16	9.016	1206	1212	1215	rVV	168138	189131	8.29%	0.479%
17	9.045	1215	1217	1220	rVV	111769	98162	4.31%	0.249%
18	9.110	1223	1228	1231	rVV	250925	243406	10.68%	0.617%
19	9.157	1231	1236	1244	rVB	80719	116511	5.11%	0.295%
20	9.251	1248	1252	1257	rBV2	90893	105897	4.64%	0.268%
21	9.427	1275	1282	1285	rBV	1144284	1219360	53.48%	3.089%
22	9.463	1285	1288	1291	rVV	546305	492348	21.59%	1.247%
23	9.569	1302	1306	1310	rBV3	38787	56436	2.48%	0.143%
24	9.622	1310	1315	1318	rVV	45943	47987	2.10%	0.122%
25	9.675	1318	1324	1330	rVB	319103	351224	15.40%	0.890%
26	9.733	1330	1334	1337	rBV	56176	56994	2.50%	0.144%
27	9.939	1363	1369	1371	rBV2	35312	61013	2.68%	0.155%
28	10.098	1392	1396	1400	rVB	659248	591702	25.95%	1.499%
29	10.180	1404	1410	1412	rVV2	54156	84380	3.70%	0.214%
30	10.204	1412	1414	1417	rVV	84152	68691	3.01%	0.174%
31	10.298	1426	1430	1433	rBV	100177	92966	4.08%	0.236%
32	10.398	1443	1447	1454	rBV	890106	889207	39.00%	2.253%
33	10.604	1478	1482	1484	rBV	47905	46225	2.03%	0.117%
34	10.774	1506	1511	1514	rBV	96059	129713	5.69%	0.329%

LSC Area Percent Report

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Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

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:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.810	1514	1517	1521	rVV	72334	72181	3.17%	0.183%
36	10.874	1525	1528	1532	rVB	55481	65066	2.85%	0.165%
37	10.945	1537	1540	1542	rVV	37449	47709	2.09%	0.121%
38	11.010	1546	1551	1558	rVB4	39247	73436	3.22%	0.186%
39	11.080	1558	1563	1566	rBV3	39934	61163	2.68%	0.155%
40	11.116	1566	1569	1572	rVV	195047	179481	7.87%	0.455%
41	11.157	1572	1576	1580	rVB	48408	47829	2.10%	0.121%
42	11.245	1587	1591	1594	rBV	848819	1030125	45.18%	2.610%
43	11.280	1594	1597	1600	rVV	2403991	2280123	100.00%	5.777%
44	11.339	1603	1607	1611	rVB	696527	657468	28.83%	1.666%
45	11.545	1638	1642	1646	rBV	277273	253193	11.10%	0.641%
46	11.627	1652	1656	1658	rBV	68627	71036	3.12%	0.180%
47	11.657	1658	1661	1664	rVV2	68484	78624	3.45%	0.199%
48	11.686	1664	1666	1671	rVB4	59831	64618	2.83%	0.164%
49	11.757	1675	1678	1683	rVB	46373	62201	2.73%	0.158%
50	11.868	1693	1697	1700	rBV	283484	302398	13.26%	0.766%
51	11.904	1700	1703	1708	rVB	368615	373931	16.40%	0.947%
52	11.963	1708	1713	1716	rBV	125640	130536	5.72%	0.331%
53	11.998	1716	1719	1722	rBV	525015	554581	24.32%	1.405%
54	12.033	1722	1725	1732	rVB	207981	239186	10.49%	0.606%
55	12.110	1732	1738	1740	rBV3	30039	56218	2.47%	0.142%
56	12.192	1749	1752	1756	rBV4	40290	53170	2.33%	0.135%
57	12.239	1756	1760	1762	rVV	192362	191784	8.41%	0.486%
58	12.263	1762	1764	1769	rVB3	82993	90317	3.96%	0.229%
59	12.421	1788	1791	1794	rVV	52387	58886	2.58%	0.149%
60	12.463	1795	1798	1800	rVV	79151	73763	3.24%	0.187%
61	12.492	1800	1803	1808	rVB2	46248	52276	2.29%	0.132%
62	12.551	1808	1813	1816	rBV	149761	197544	8.66%	0.500%
63	12.592	1816	1820	1823	rVV2	107590	124801	5.47%	0.316%
64	12.668	1827	1833	1837	rVB5	68650	135922	5.96%	0.344%
65	12.745	1840	1846	1849	rBV	1997057	2183331	95.75%	5.532%
66	12.815	1854	1858	1861	rBV3	70206	86517	3.79%	0.219%
67	12.915	1871	1875	1878	rVB	104827	111045	4.87%	0.281%
68	13.015	1884	1892	1895	rBV	1868019	2228474	97.73%	5.646%
69	13.045	1895	1897	1900	rVV	49716	54599	2.39%	0.138%
70	13.080	1900	1903	1906	rVB	68315	71931	3.15%	0.182%
71	13.115	1906	1909	1914	rVB3	34501	46442	2.04%	0.118%

LSC Area Percent Report

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Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

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:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.168	1915	1918	1921	rBV	96292	93472	4.10%	0.237%
73	13.221	1921	1927	1931	rBV	1124493	1163210	51.02%	2.947%
74	13.298	1937	1940	1943	rVV	104858	130767	5.74%	0.331%
75	13.398	1953	1957	1959	rBV2	109724	163343	7.16%	0.414%
76	13.427	1959	1962	1967	rVB	342003	365714	16.04%	0.927%
77	13.510	1972	1976	1980	rVB2	312998	312291	13.70%	0.791%
78	13.551	1980	1983	1986	rBV2	209997	246587	10.81%	0.625%
79	13.662	1999	2002	2005	rBV	128700	130066	5.70%	0.330%
80	13.704	2005	2009	2014	rVB2	110119	144977	6.36%	0.367%
81	14.180	2087	2090	2093	rBV2	147300	163234	7.16%	0.414%
82	14.221	2094	2097	2099	rVV	124360	139744	6.13%	0.354%
83	14.245	2099	2101	2103	rVV	113181	105487	4.63%	0.267%
84	14.268	2103	2105	2109	rVV2	66108	97894	4.29%	0.248%
85	14.304	2109	2111	2117	rVB	54294	77357	3.39%	0.196%
86	14.492	2138	2143	2147	rBV2	1017791	1758366	77.12%	4.455%
87	14.527	2147	2149	2152	rVB	683875	583086	25.57%	1.477%
88	14.621	2161	2165	2168	rBV2	167850	176921	7.76%	0.448%
89	14.786	2190	2193	2196	rBV	76390	95247	4.18%	0.241%
90	14.933	2216	2218	2221	rBV	48075	51578	2.26%	0.131%
91	14.980	2222	2226	2231	rBV3	226331	344137	15.09%	0.872%
92	15.086	2242	2244	2248	rVB3	111556	128338	5.63%	0.325%
93	15.127	2248	2251	2253	rBV3	70100	97210	4.26%	0.246%
94	15.721	2348	2352	2355	rBV	571409	852356	37.38%	2.160%
95	15.827	2368	2370	2373	rVB	134728	112446	4.93%	0.285%
96	16.009	2397	2401	2406	rBV	361848	394983	17.32%	1.001%
97	16.062	2406	2410	2414	rBV	541201	599046	26.27%	1.518%
98	16.121	2416	2420	2423	rBV	531863	576943	25.30%	1.462%
99	17.409	2635	2639	2647	rVB2	201278	369448	16.20%	0.936%
100	17.786	2699	2703	2709	rVB	150430	242733	10.65%	0.615%

Sum of corrected areas: 39469816

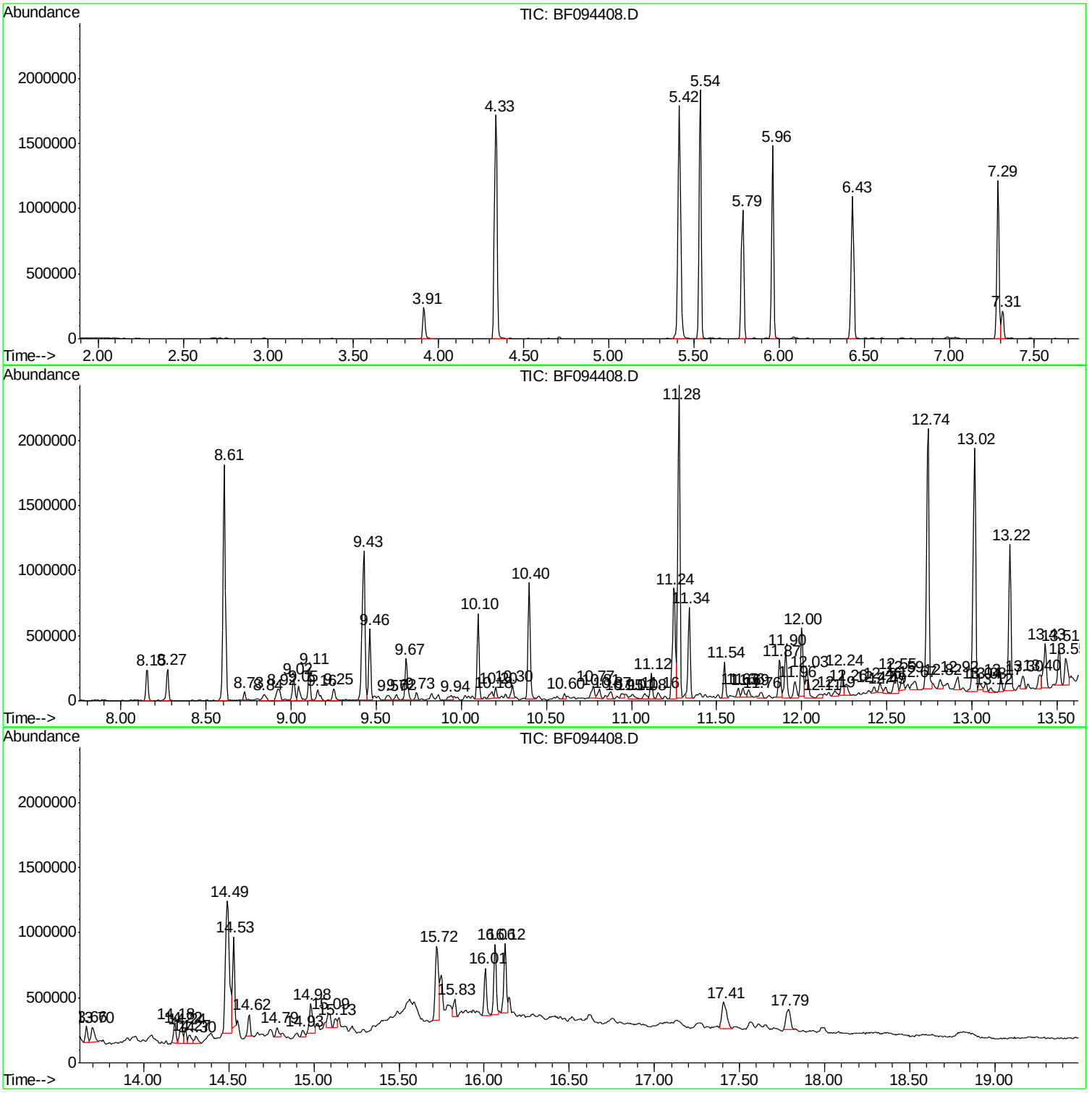
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\Data\BF041317\
Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\Data\BF041317\
Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

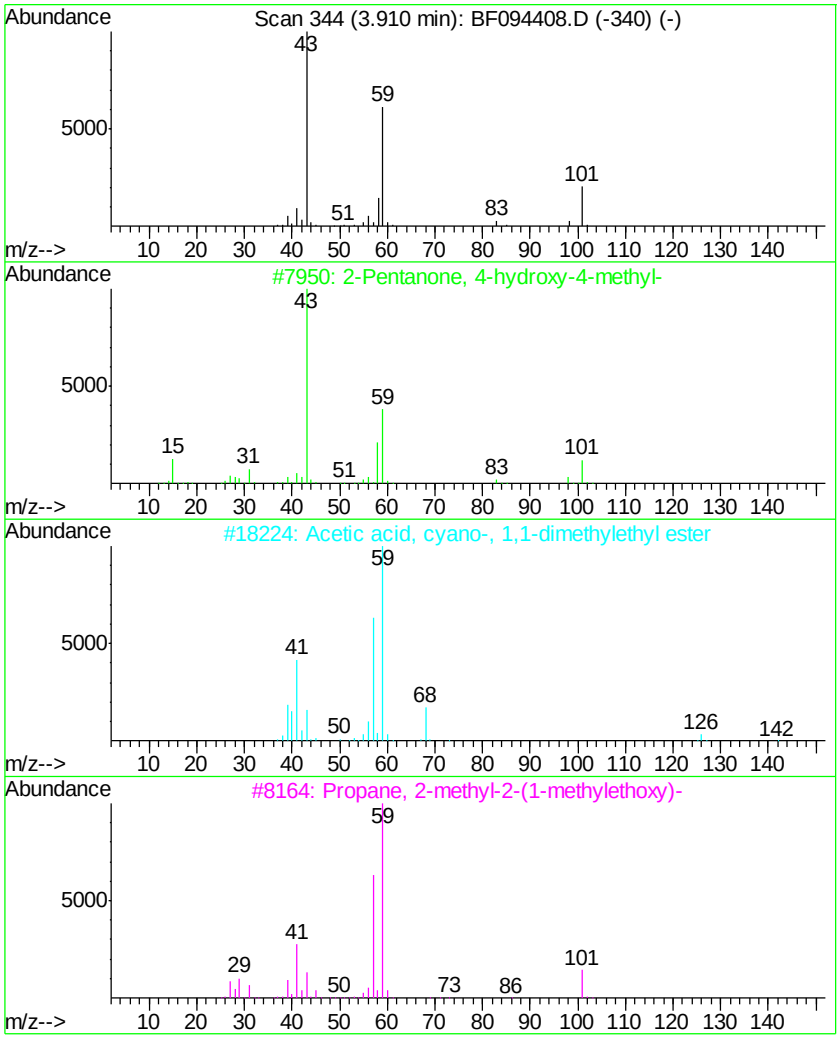
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

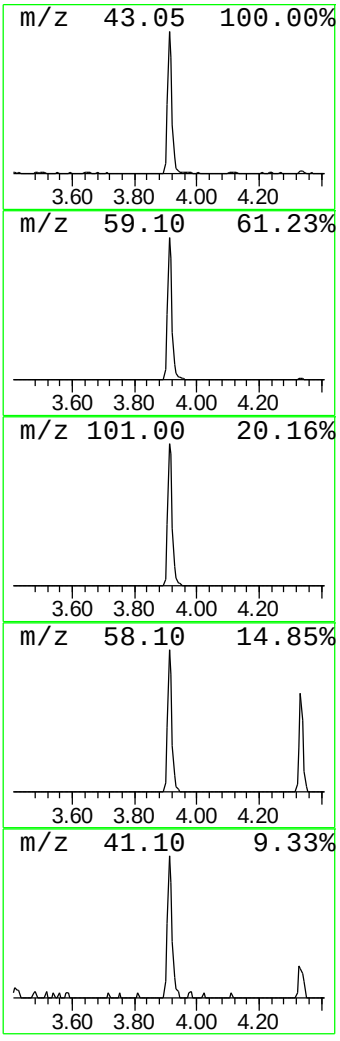
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.91	5.69 ng	247707	1,4-Dichlorobenzene-d4	5.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32
3	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	28
4	5-Hexen-2-one	98	C6H10O	000109-49-9	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Data Path : Z:\HPCHEM1\BNA F\Data\BF041317\
Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

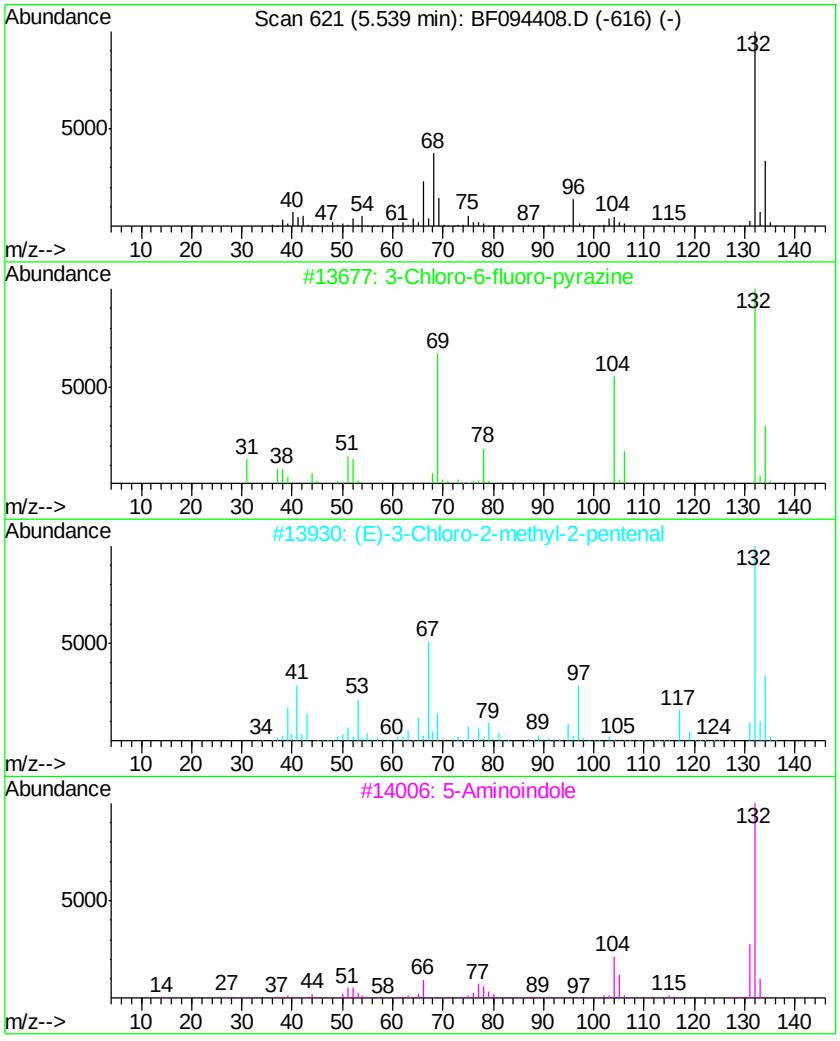
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

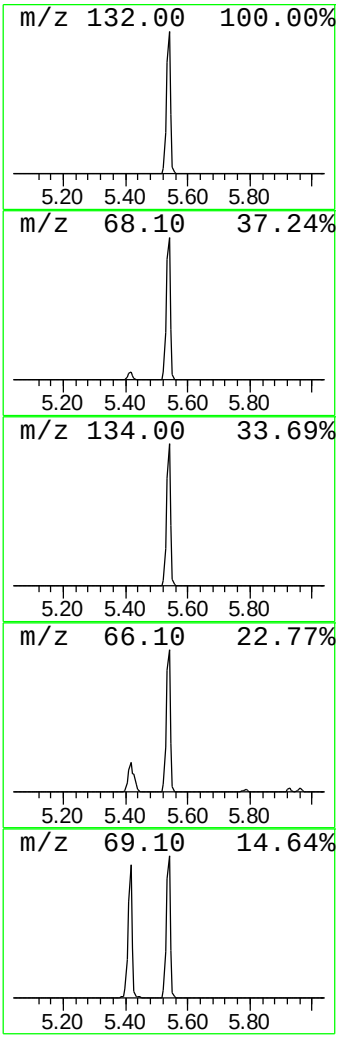
****

Peak Number 2 unknown5.54 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.54	40.16 ng	1748820	1,4-Dichlorobenzene-d4	5.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Benzene, 1,3,5-trifluoro-	132	C6H3F3	000372-38-3	9
5	1-Aminoindan	133	C9H11N	034698-41-4	9





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Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
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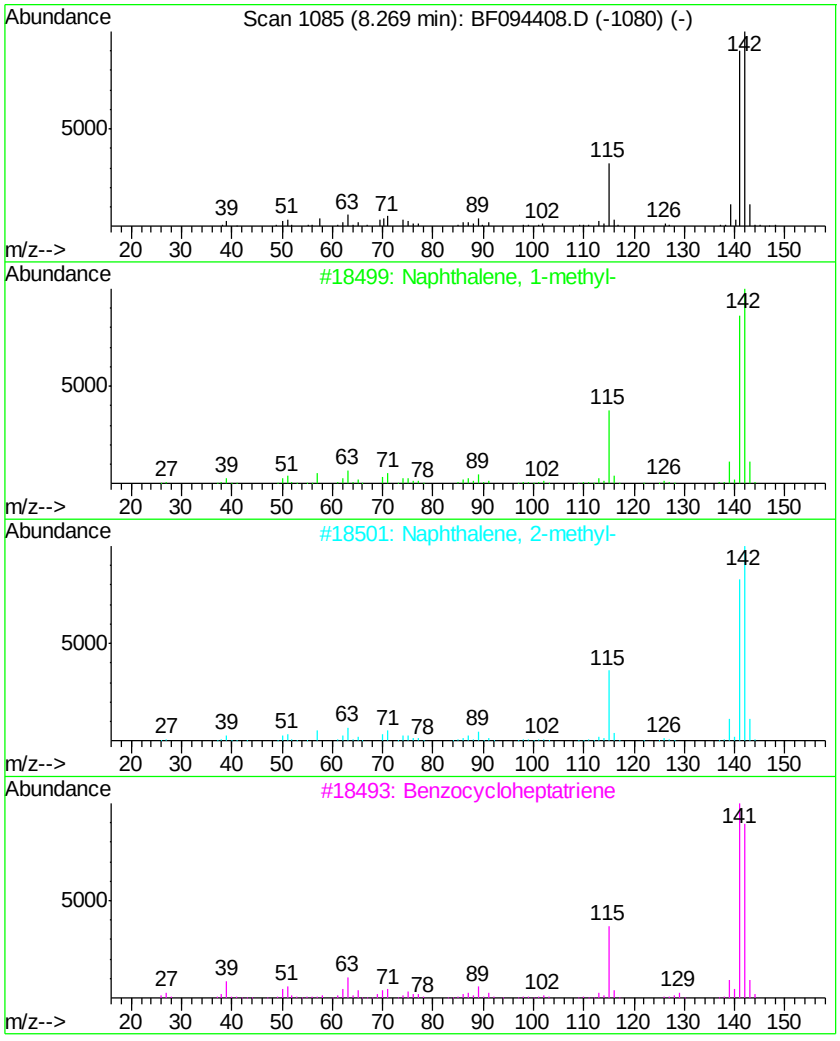
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

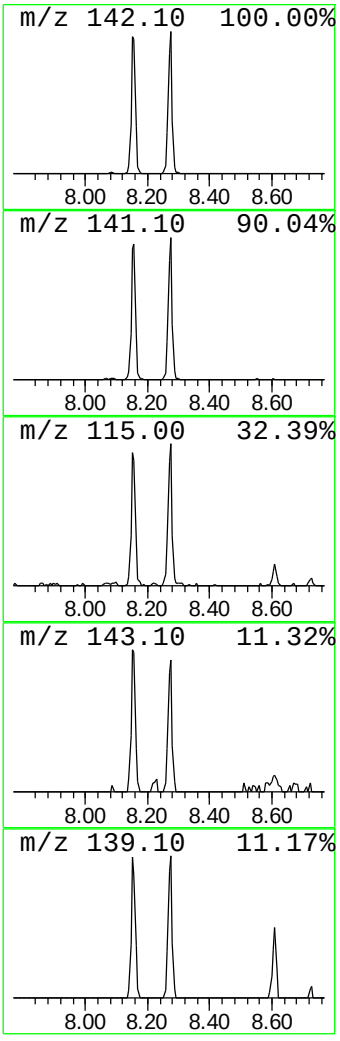
****

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.27	3.93 ng	233423	Naphthalene-d8	7.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	47





Data Path : Z:\HPCHEM1\BNA F\Data\BF041317\
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Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

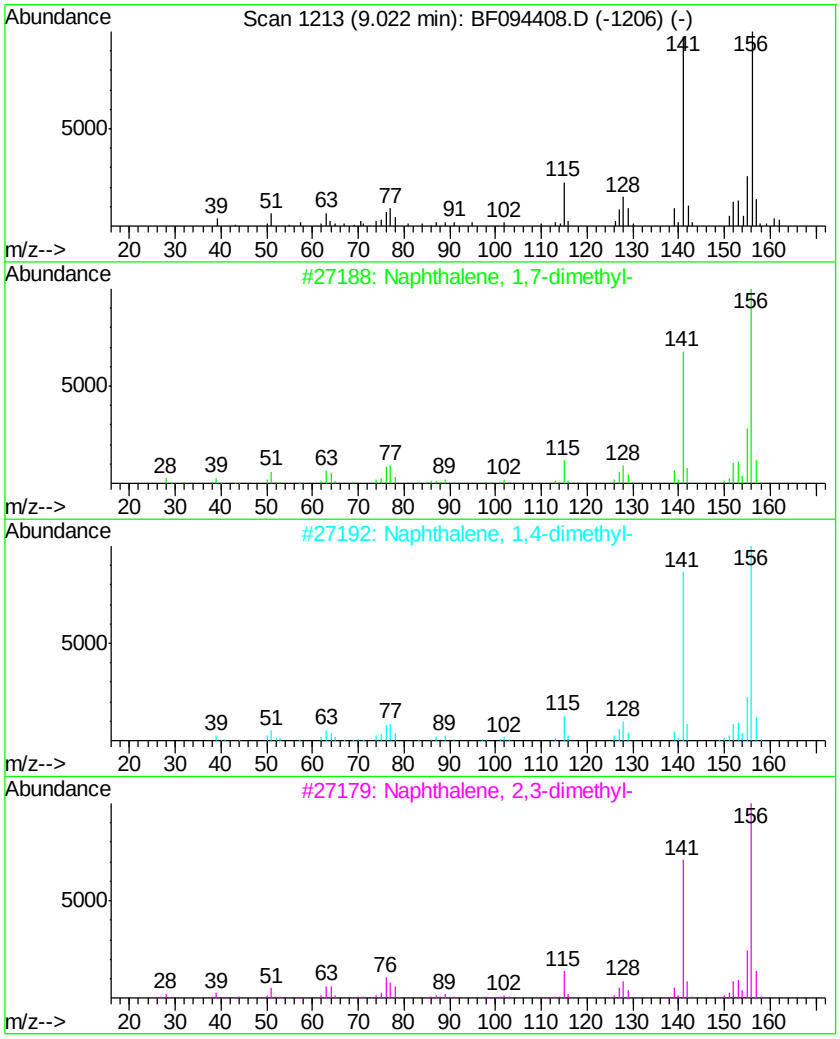
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

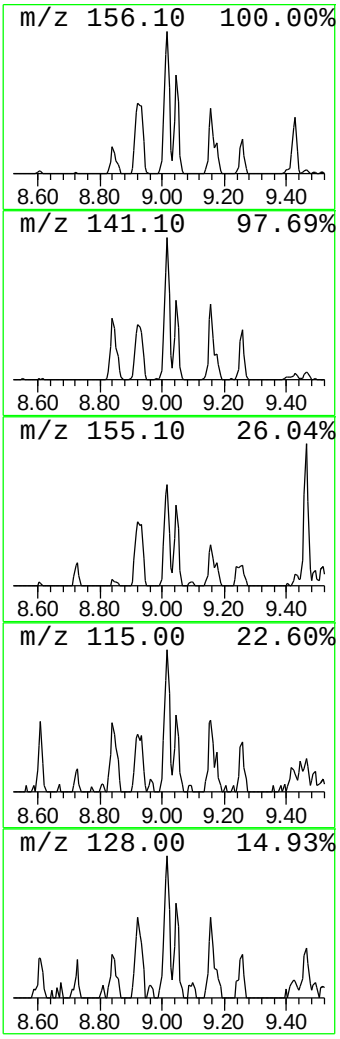
****

Peak Number 5 Naphthalene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.02	3.10 ng	189131	Acenaphthene-d10	9.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97





Data Path : Z:\HPCHEM1\BNA F\Data\BF041317\
Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

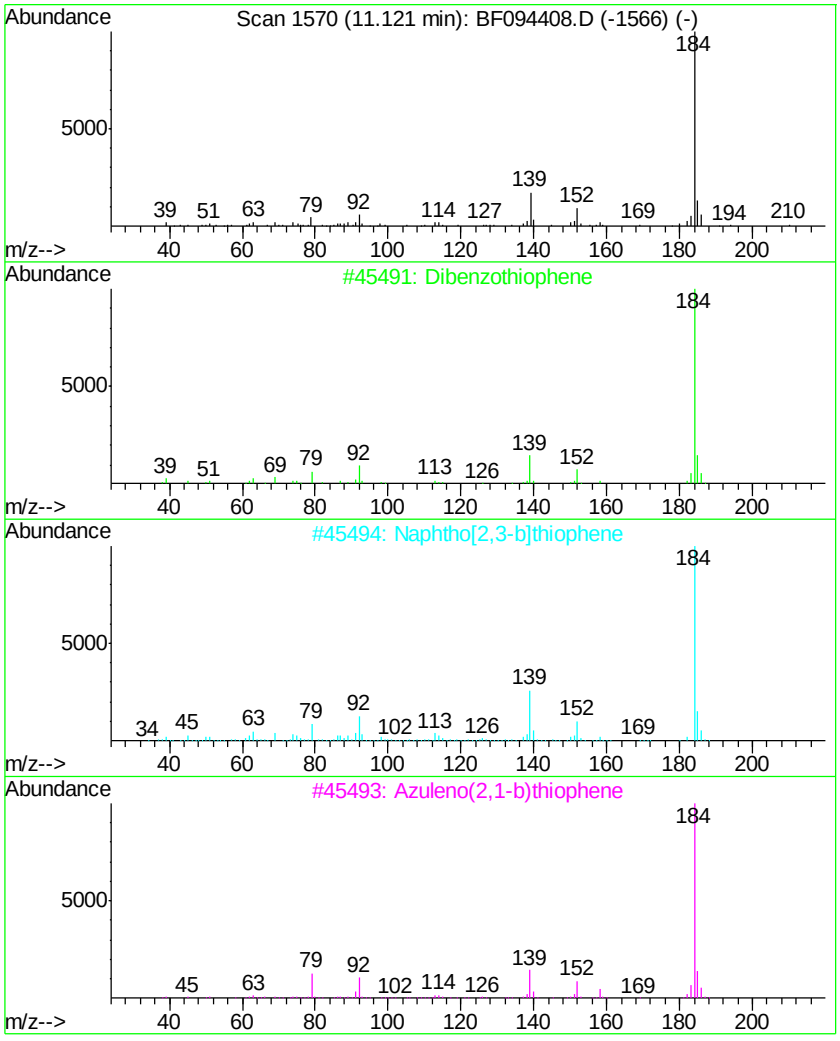
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

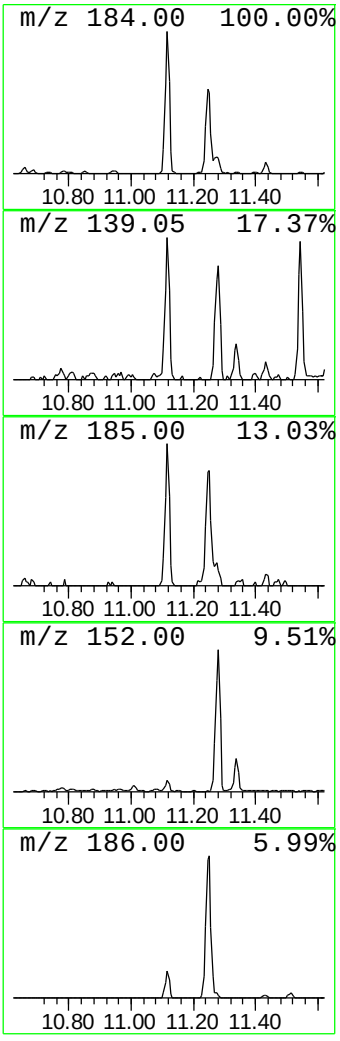
****

Peak Number 6 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	3.48 ng	179481	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	80
4	Dibenzothiophene, 5-oxide	200	C12H8OS	001013-23-6	72
5	1,1'-Biphenyl, 3-methoxy-	184	C13H12O	002113-56-6	50





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Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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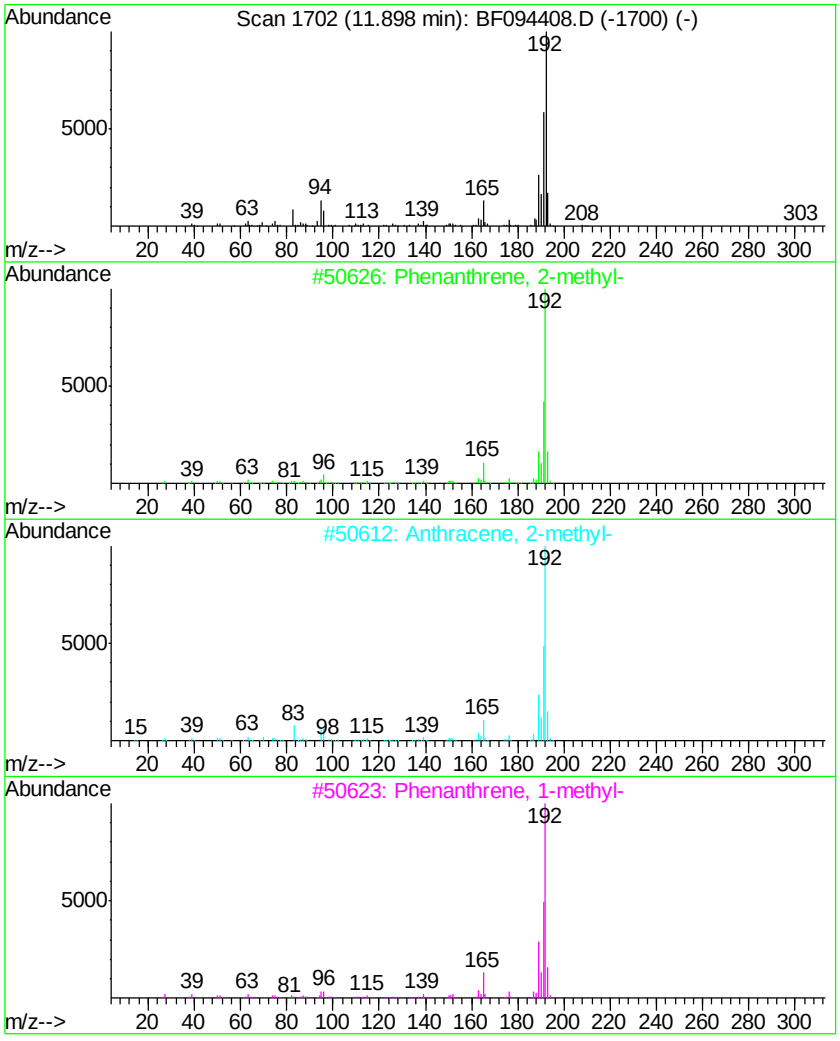
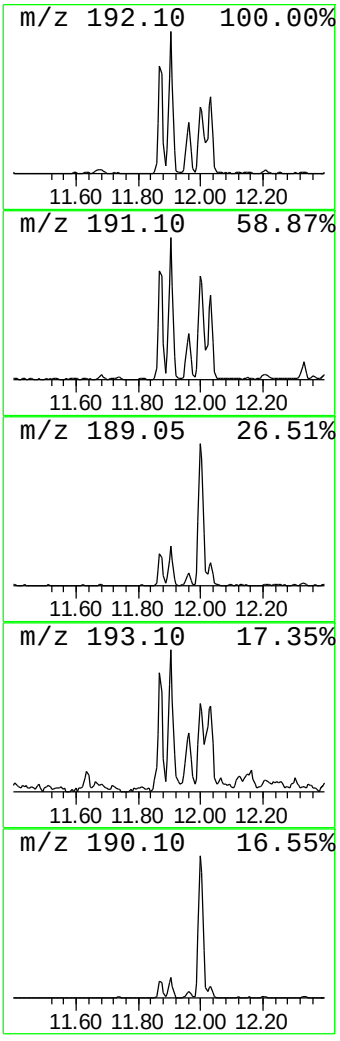
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	7.26 ng	373931	Phenanthrene-d10	11.24

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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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Sample : I2670-01 2X
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Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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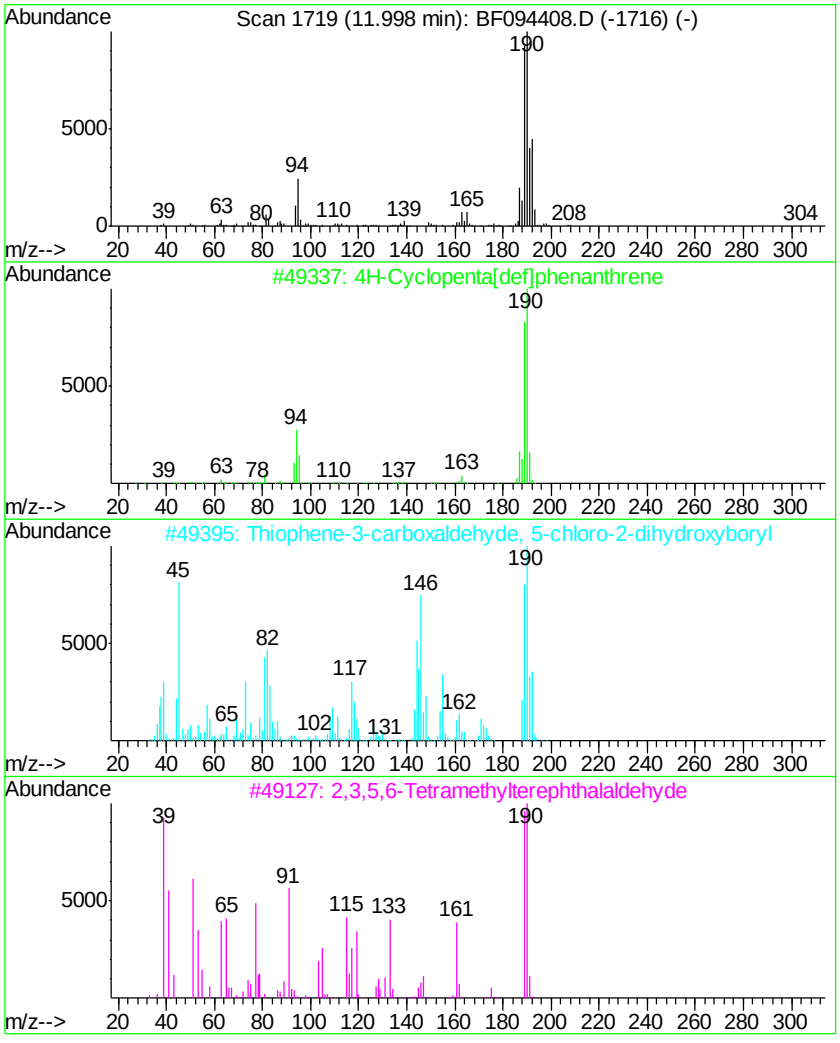
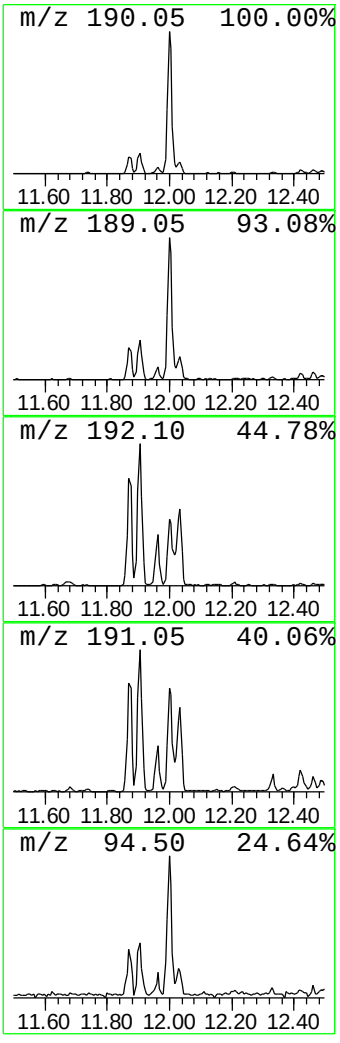
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	10.77 ng	554581	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40





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Sample : I2670-01 2X
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Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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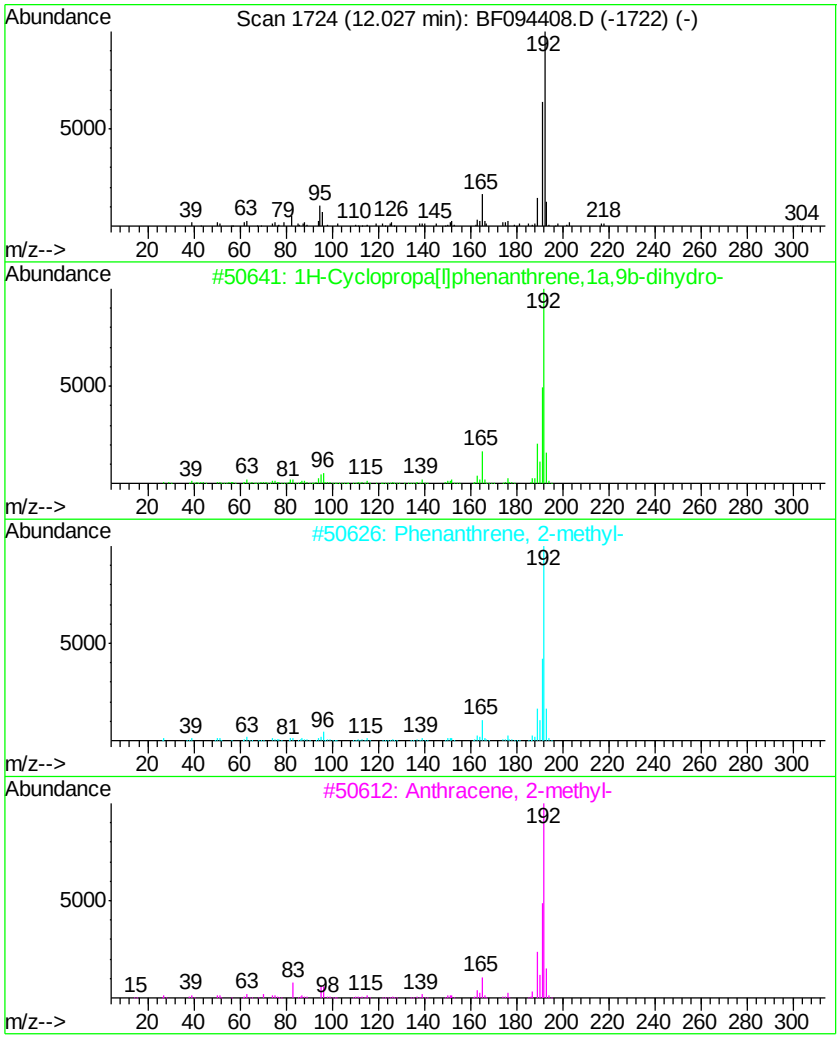
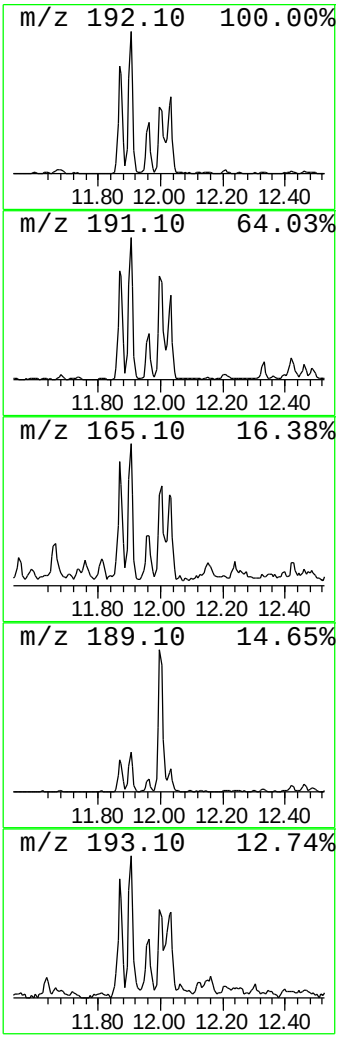
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	4.64 ng	239186	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	76
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	74
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	74





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Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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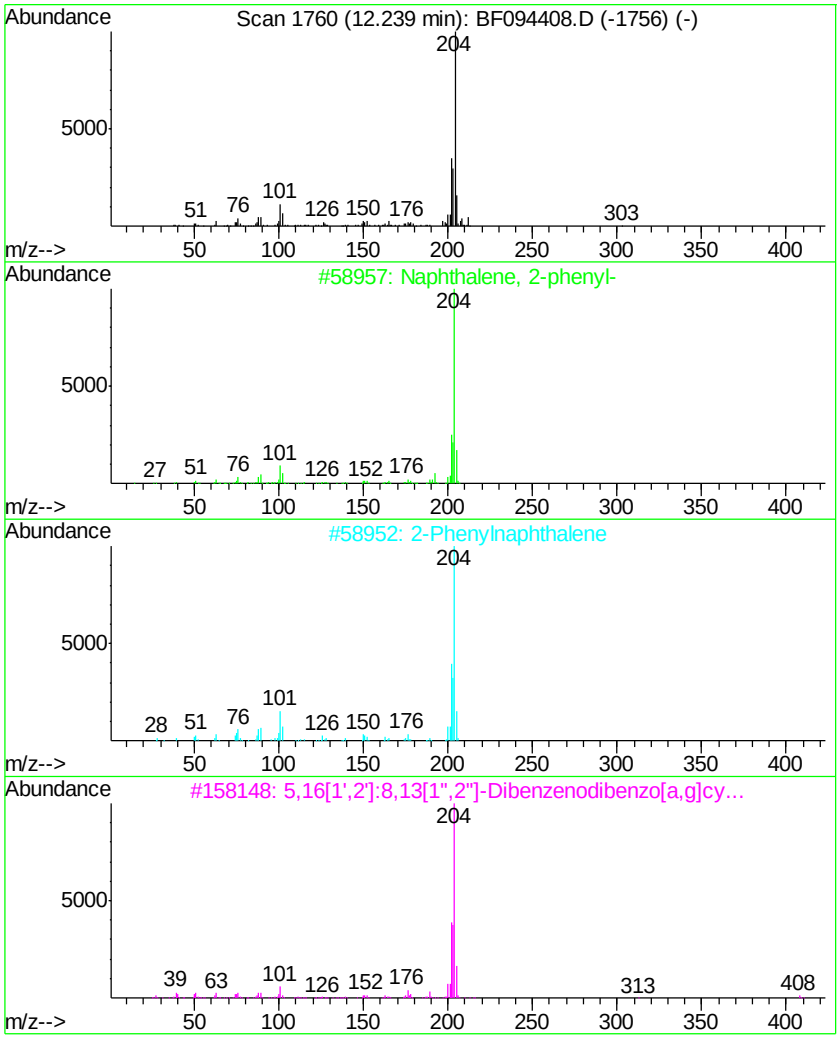
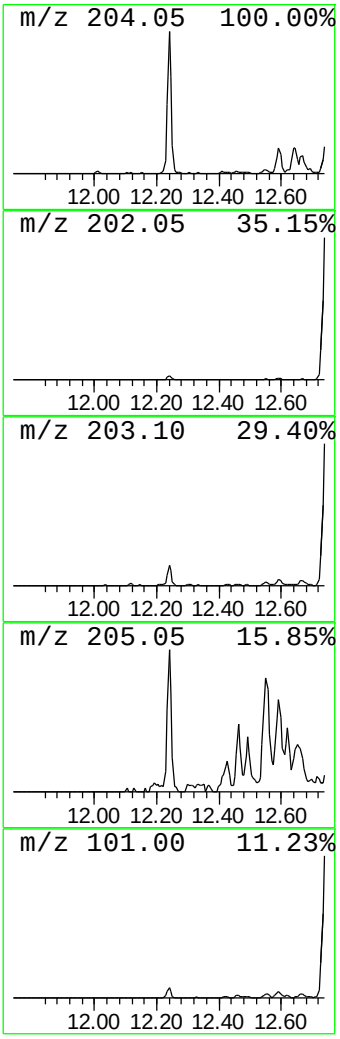
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	3.72 ng	191784	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70





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Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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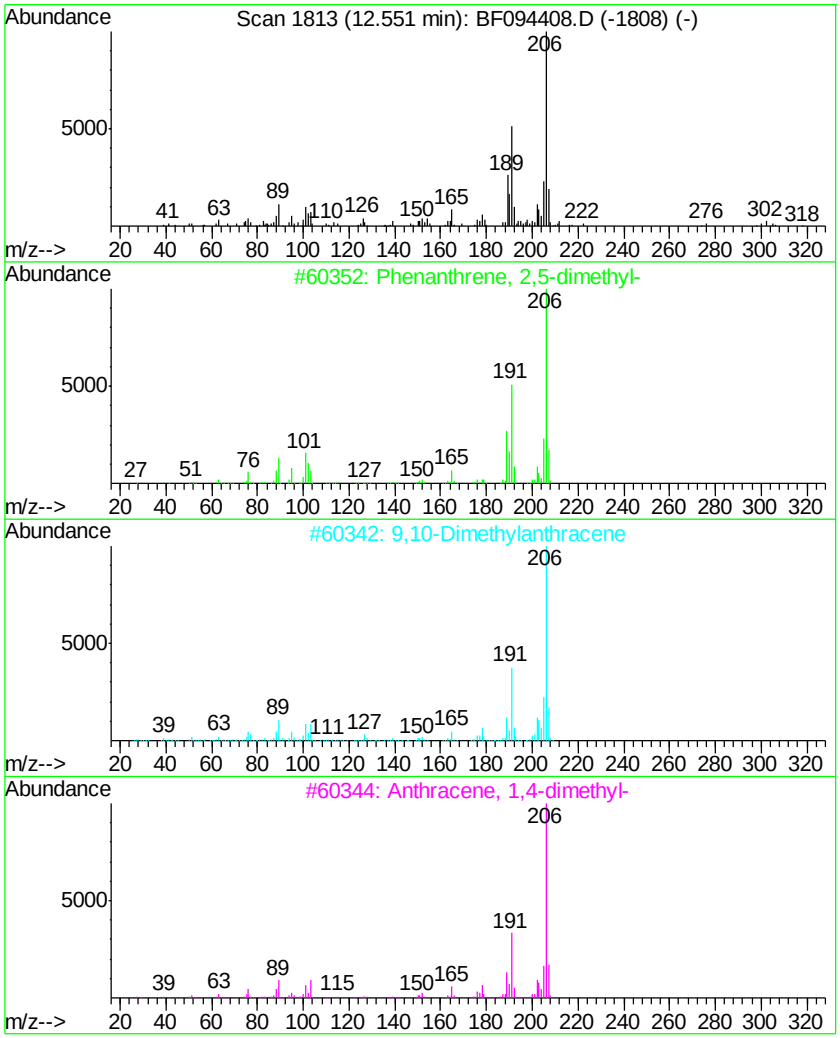
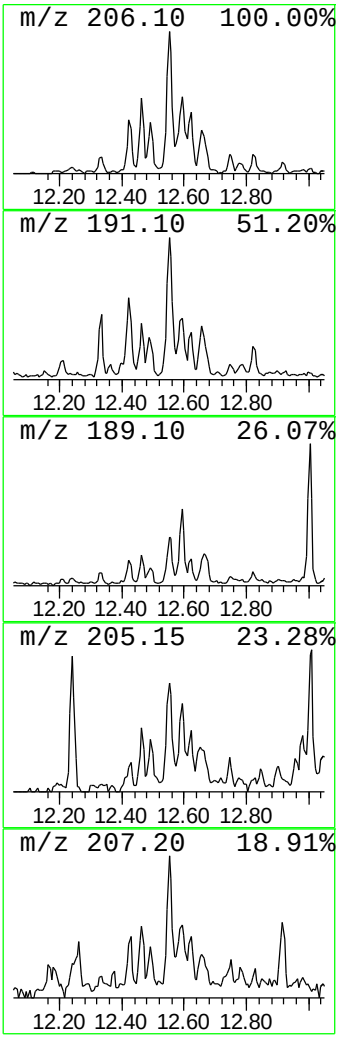
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	3.84 ng	197544	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	95
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	95
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	95
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93





Library Search Compound Report

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Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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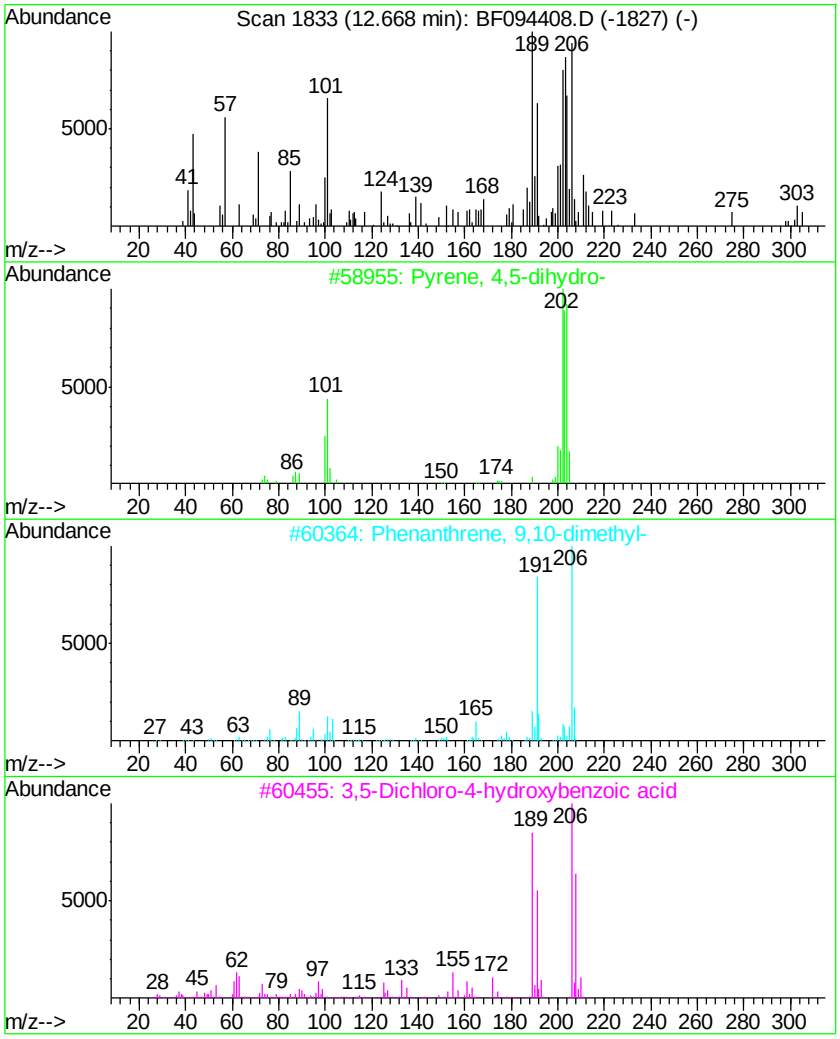
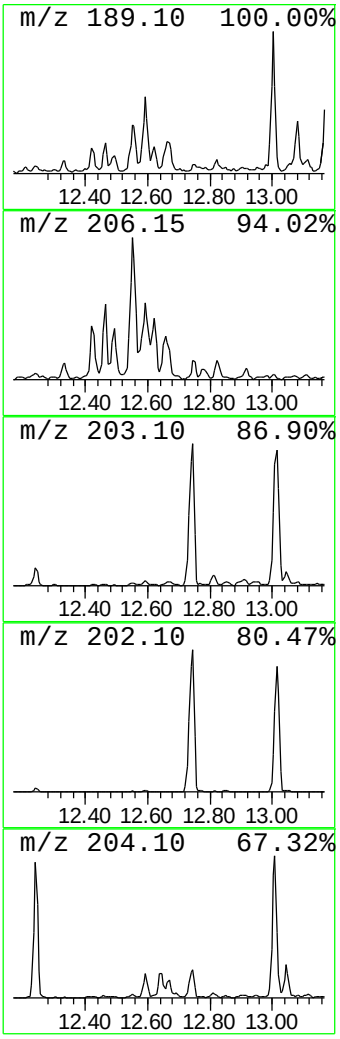
Peak Number 14 unknown12.67 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.67	2.64 ng	135922	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5-dihydro-	204	C16H12	006628-98-4	38
2	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	35
3	3,5-Dichloro-4-hydroxybenzoic acid	206	C7H4Cl2O3	003336-41-2	30
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	25
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	25





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Misc :
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Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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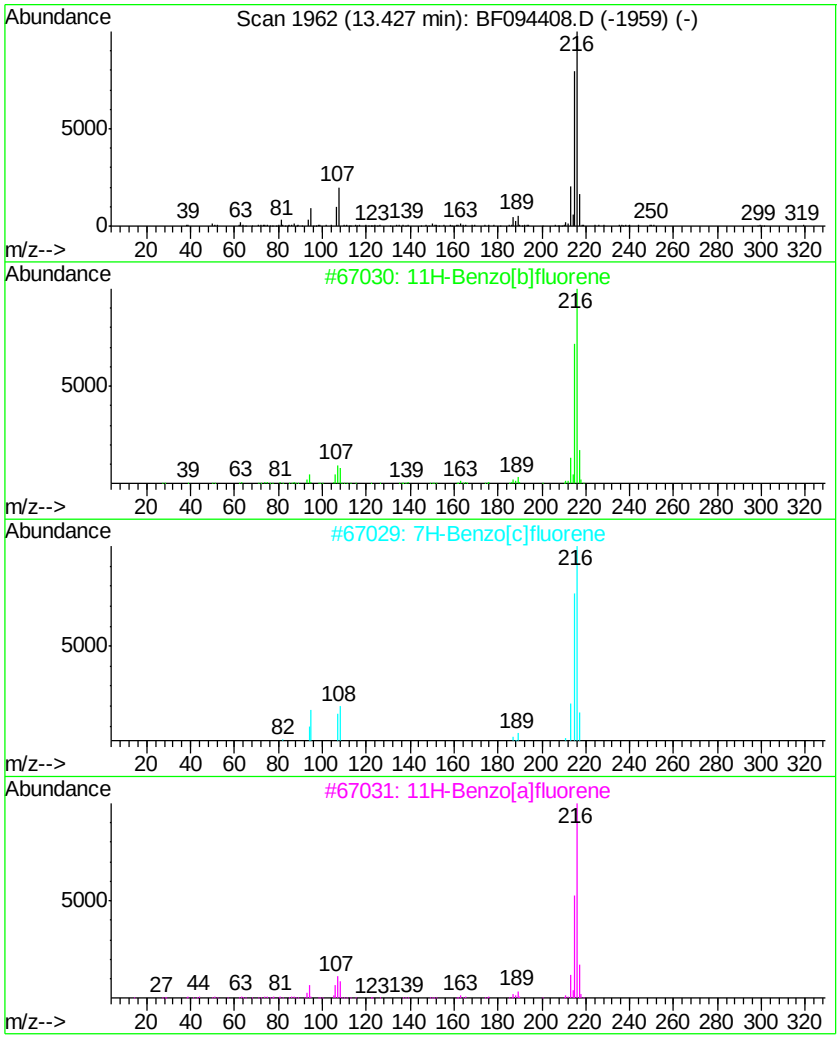
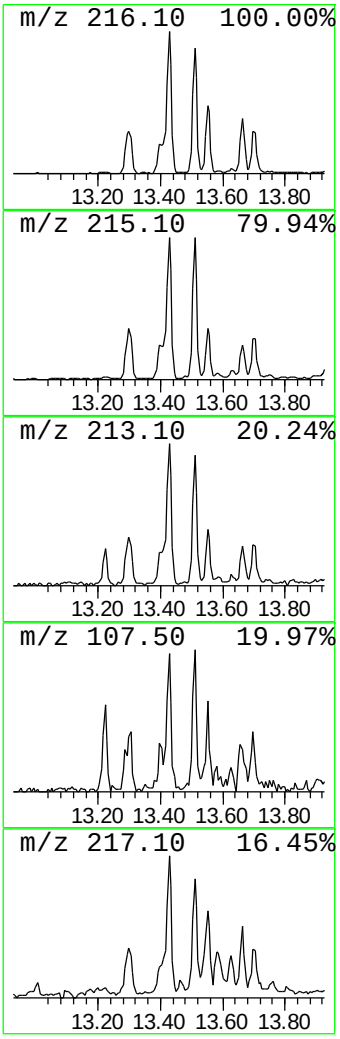
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.43	4.16 ng	365714	Chrysene-d12	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	64
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64





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

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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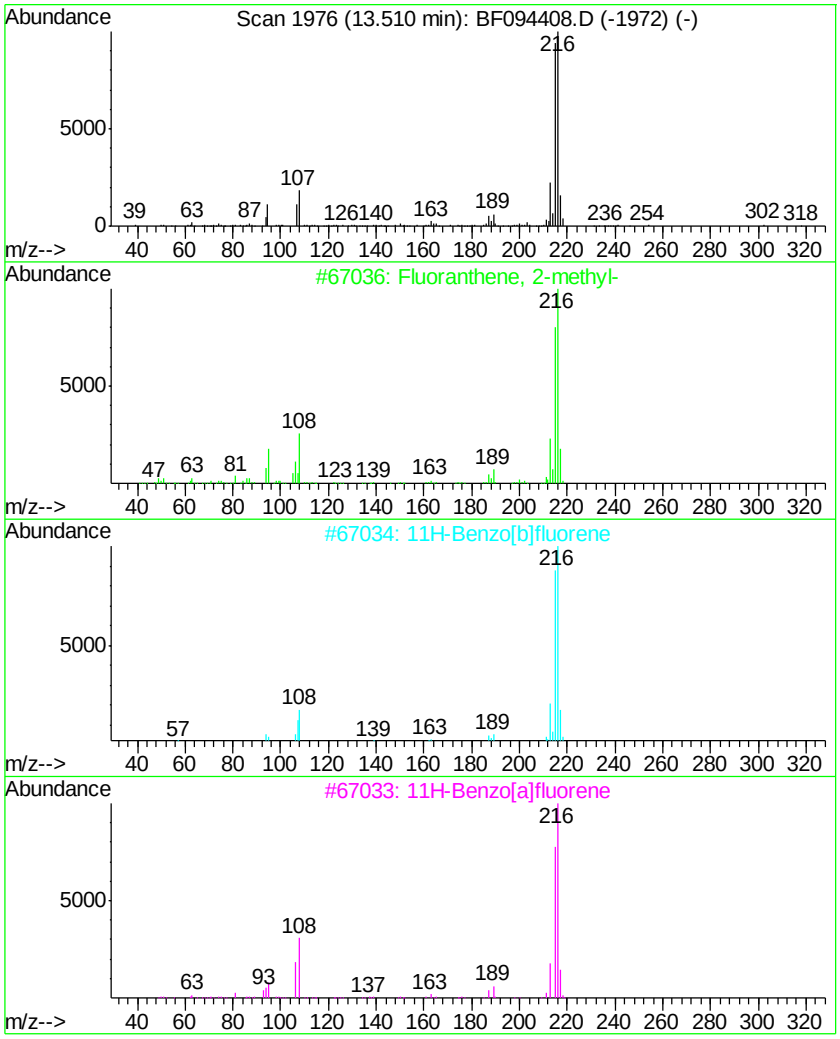
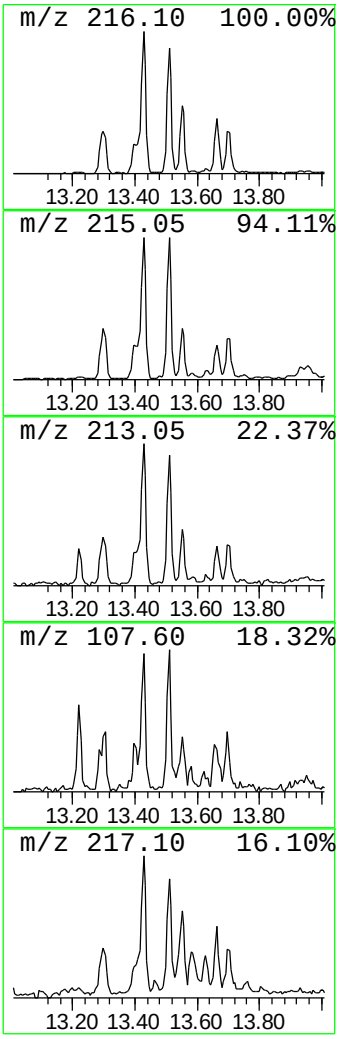
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.51	3.55 ng	312291	Chrysene-d12	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	59





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TIC Library : C:\DATABASE\NIST02.L
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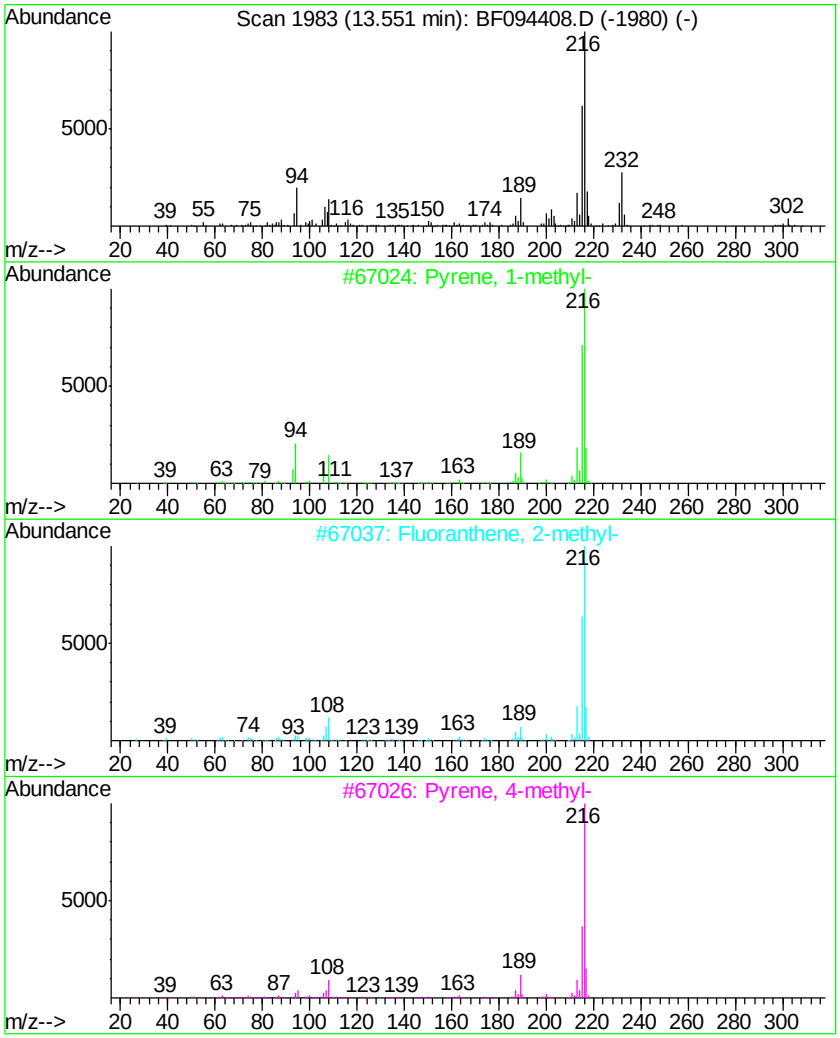
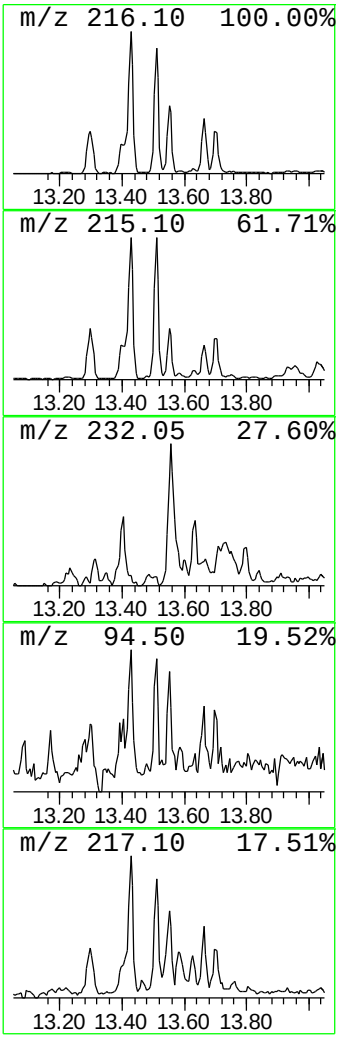
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.55	2.80 ng	246587	Chrysene-d12	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	70





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Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

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TIC Library : C:\DATABASE\NIST02.L
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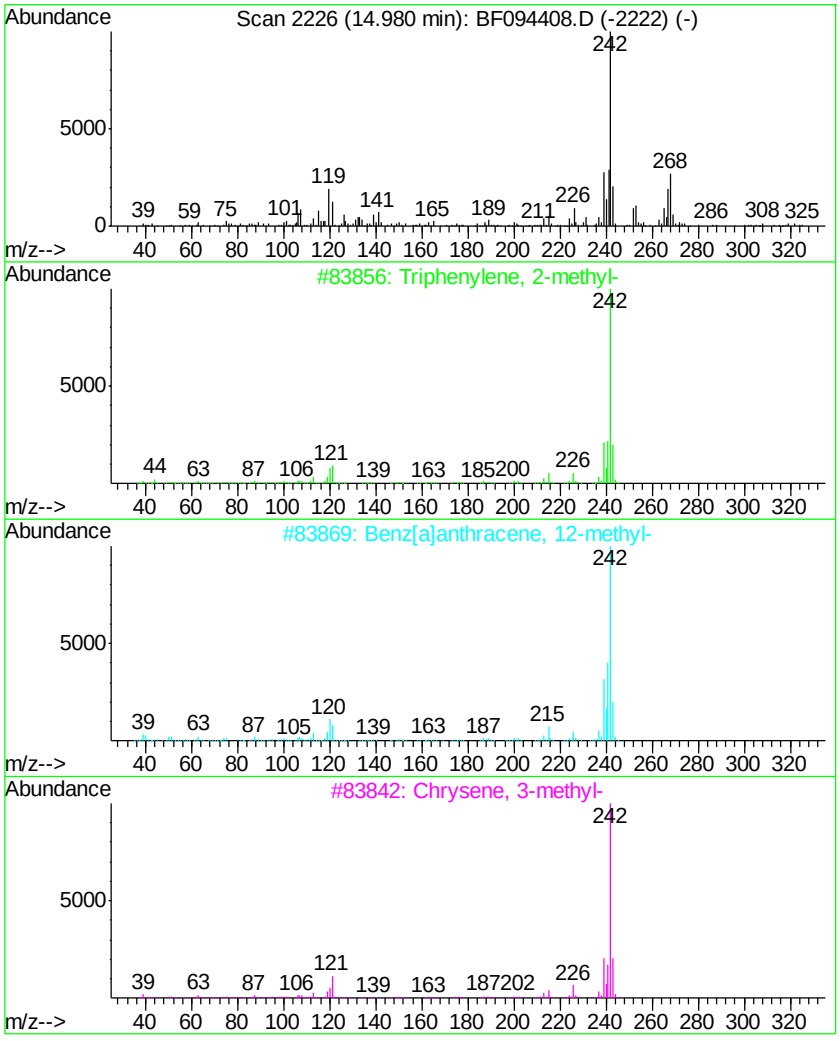
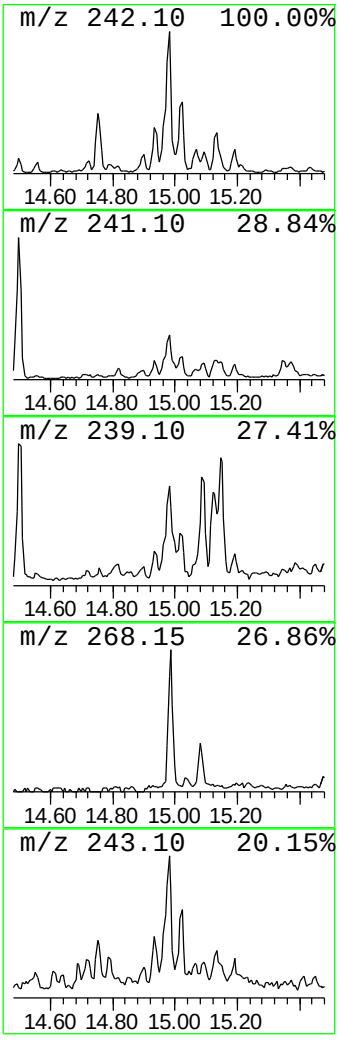
Peak Number 18 Triphenylene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	3.91 ng	344137	Chrysene-d12	14.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	86
2	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	86
3	Chrysene, 3-methyl-	242	C19H14	003351-31-3	86
4	Chrysene, 6-methyl-	242	C19H14	001705-85-7	78
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	78





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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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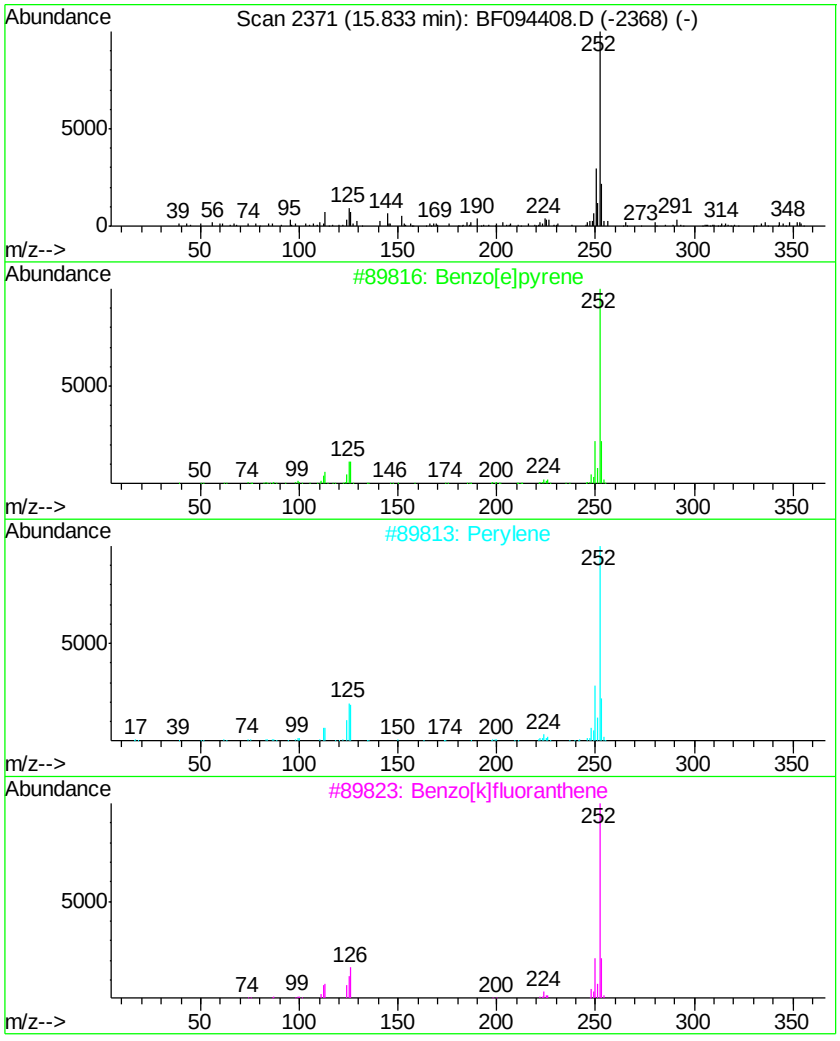
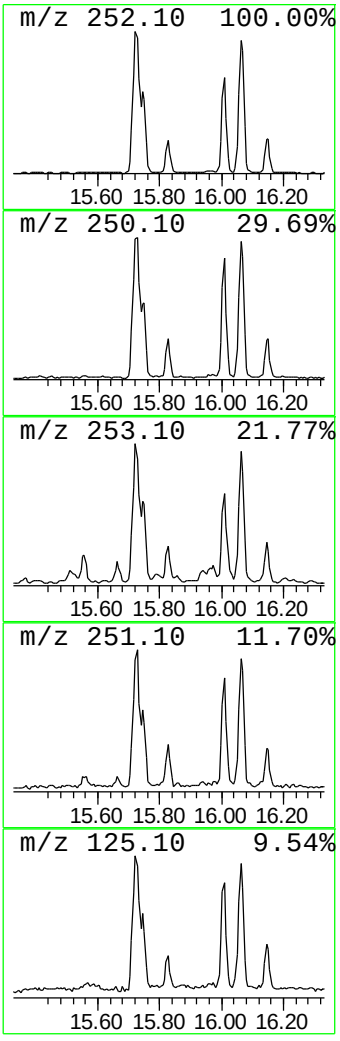
Peak Number 19 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.83	3.90 ng	112446	Perylene-d12	16.12

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	90





Tentatively Identified Compound (LSC) summary

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Data File : BF094408.D
Acq On : 13 Apr 2017 23:24
Operator : SJ/MA
Sample : I2670-01 2X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLL-OFF-R4

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	3.91	5.7	ng	247707	1	5.79	870883	20.0
unknown5.54	5.54	40.2	ng	1748820	1	5.79	870883	20.0
Naphthalene, 1-me...	8.27	3.9	ng	233423	2	7.29	1186990	20.0
Naphthalene, 1,7-...	9.02	3.1	ng	189131	3	9.43	1219360	20.0
Dibenzothiophene	11.12	3.5	ng	179481	4	11.24	1030130	20.0
Phenanthrene, 2-m...	11.90	7.3	ng	373931	4	11.24	1030130	20.0
4H-Cyclopenta[def...	12.00	10.8	ng	554581	4	11.24	1030130	20.0
1H-Cyclopropa[l]p...	12.03	4.6	ng	239186	4	11.24	1030130	20.0
Naphthalene, 2-ph...	12.24	3.7	ng	191784	4	11.24	1030130	20.0
Phenanthrene, 2,5...	12.55	3.8	ng	197544	4	11.24	1030130	20.0
unknown12.67	12.67	2.6	ng	135922	4	11.24	1030130	20.0
11H-Benzo[b]fluorene	13.43	4.2	ng	365714	5	14.50	1758370	20.0
Fluoranthene, 2-m...	13.51	3.5	ng	312291	5	14.50	1758370	20.0
Pyrene, 1-methyl-	13.55	2.8	ng	246587	5	14.50	1758370	20.0
Triphenylene, 2-m...	14.98	3.9	ng	344137	5	14.50	1758370	20.0
Benzo[e]pyrene	15.83	3.9	ng	112446	6	16.12	576943	20.0