LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092017\
Data File : BF098662.D
Acq On : 20 Sep 2017 16:12
Operator : SJ/JU
Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

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-BF091117.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	5.245	535	537	549	rBV2	15008	30027	2.49%	0.233%
2	6.292	713	715	727	rBV	24466	40832	3.38%	0.317%
3	6.404	731	734	744	rVB	41740	49587	4.11%	0.385%
4	6.616	767	770	783	rBV	564441	491168	40.68%	3.818%
5	6.775	794	797	805	rBB	39999	38314	3.17%	0.298%
6	7.198	866	869	879	rBV	18141	26059	2.16%	0.203%
7	7.904	985	989	992	rBV	763466	658073	54.50%	5.115%
8	8.981	1169	1172	1179	rBB	62864	55023	4.56%	0.428%
9	9.651	1282	1286	1289	rBV2	833183	686246	56.83%	5.334%
10	9.686	1289	1292	1299	rVB	71458	67525	5.59%	0.525%
11	9.863	1318	1322	1325	rBV2	37227	34616	2.87%	0.269%
12	10.198	1376	1379	1385	rBV2	45681	42414	3.51%	0.330%
13	10.357	1404	1406	1410	rVB	22485	19908	1.65%	0.155%
14	10.445	1417	1421	1426	rVB3	31573	36447	3.02%	0.283%
15	10.751	1466	1473	1475	rBV3	13415	19490	1.61%	0.152%
16	10.898	1496	1498	1504	rVV2	15075	18865	1.56%	0.147%
17	10.951	1504	1507	1510	rVV	34174	28114	2.33%	0.219%
18	10.992	1510	1514	1518	rVV3	18274	26625	2.20%	0.207%
19	11.033	1518	1521	1526	rVB	34996	30010	2.49%	0.233%
20	11.133	1535	1538	1540	rBV	694636	587163	48.63%	4.564%
21	11.157	1540	1542	1546	rVV	752055	599366	49.64%	4.659%
22	11.210	1546	1551	1555	rVV	124438	122388	10.14%	0.951%
23	11.380	1573	1580	1586	rBV3	30093	43491	3.60%	0.338%
24	11.633	1620	1623	1626	rBV	67391	63023	5.22%	0.490%
25	11.669	1626	1629	1634	rVB	88316	84659	7.01%	0.658%
26	11.716	1634	1637	1639	rBV	37592	33170	2.75%	0.258%
27	11.745	1639	1642	1645	rBV	103550	109975	9.11%	0.855%
28	11.769	1645	1646	1653	rVB	52724	39111	3.24%	0.304%
29	11.933	1671	1674	1677	rVB	60069	47996	3.97%	0.373%
30	11.974	1677	1681	1683	rBV	25079	23617	1.96%	0.184%
31	12.080	1694	1699	1702	rBV3	15365	19702	1.63%	0.153%
32	12.186	1714	1717	1719	rBV	41257	40475	3.35%	0.315%
33	12.222	1719	1723	1725	rVV2	27314	32912	2.73%	0.256%
34	12.280	1729	1733	1736	rVB2	44956	43900	3.64%	0.341%

LSC Area Percent Report

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Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

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-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.345	1740	1744	1748	rBV	955545	825909	68.40%	6.420%
36	12.492	1765	1769	1772	rBV2	39337	40237	3.33%	0.313%
37	12.574	1777	1783	1786	rVV	889828	872544	72.26%	6.783%
38	12.627	1789	1792	1796	rVB2	32255	39300	3.25%	0.305%
39	12.698	1799	1804	1805	rBV	41538	37782	3.13%	0.294%
40	12.716	1805	1807	1809	rVV	45577	36334	3.01%	0.282%
41	12.739	1809	1811	1815	rVB	45114	42044	3.48%	0.327%
42	12.792	1815	1820	1825	rBV3	51882	85693	7.10%	0.666%
43	12.880	1832	1835	1836	rBV2	43238	47742	3.95%	0.371%
44	12.904	1836	1839	1842	rVB	67126	80124	6.64%	0.623%
45	12.969	1842	1850	1852	rBV3	37353	57854	4.79%	0.450%
46	13.004	1852	1856	1864	rVV3	79766	118429	9.81%	0.921%
47	13.098	1869	1872	1875	rVB	50131	42077	3.48%	0.327%
48	13.127	1875	1877	1884	rBV2	48819	57375	4.75%	0.446%
49	13.298	1901	1906	1909	rBV4	18137	32427	2.69%	0.252%
50	13.416	1923	1926	1934	rVB	78378	82744	6.85%	0.643%
51	13.521	1939	1944	1946	rBV2	93371	92798	7.69%	0.721%
52	13.545	1946	1948	1951	rVV	59503	45735	3.79%	0.356%
53	13.574	1951	1953	1954	rVV	47507	39342	3.26%	0.306%
54	13.592	1954	1956	1959	rVB3	44363	45072	3.73%	0.350%
55	13.627	1959	1962	1966	rVB	97111	94774	7.85%	0.737%
56	13.692	1968	1973	1976	rBV	26363	39828	3.30%	0.310%
57	13.768	1979	1986	1989	rBV2	787631	1207520	100.00%	9.387%
58	13.798	1989	1991	1995	rVB	441064	344747	28.55%	2.680%
59	13.874	2001	2004	2009	rVB	63799	64520	5.34%	0.502%
60	13.939	2011	2015	2019	rVV5	23630	47141	3.90%	0.366%
61	13.986	2019	2023	2025	rVV2	34755	54068	4.48%	0.420%
62	14.010	2025	2027	2030	rVB	54070	45727	3.79%	0.355%
63	14.127	2043	2047	2049	rVV3	30052	35915	2.97%	0.279%
64	14.163	2049	2053	2056	rVV	79724	90974	7.53%	0.707%
65	14.192	2056	2058	2060	rVV	47410	41703	3.45%	0.324%
66	14.239	2060	2066	2071	rVV5	51375	93639	7.75%	0.728%
67	14.286	2071	2074	2075	rVV	33546	34539	2.86%	0.268%
68	14.304	2075	2077	2080	rVV2	39802	42796	3.54%	0.333%
69	14.333	2080	2082	2083	rVV2	24295	20650	1.71%	0.161%
70	14.357	2083	2086	2089	rVV2	36834	47071	3.90%	0.366%
71	14.480	2104	2107	2114	rBV7	49300	79767	6.61%	0.620%

LSC Area Percent Report

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Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

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-BF091117.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.533	2114	2116	2118	rVV2	23225	22562	1.87%	0.175%
73	14.557	2118	2120	2126	rVB5	30256	35896	2.97%	0.279%
74	14.604	2126	2128	2131	rBV4	14310	18047	1.49%	0.140%
75	14.639	2131	2134	2136	rBV	68157	62130	5.15%	0.483%
76	14.733	2145	2150	2153	rBV2	26073	32242	2.67%	0.251%
77	14.780	2153	2158	2161	rBV	470351	684087	56.65%	5.318%
78	14.845	2167	2169	2172	rVB2	35146	28061	2.32%	0.218%
79	14.880	2172	2175	2178	rBV	82711	81676	6.76%	0.635%
80	14.921	2178	2182	2185	rVB6	18622	28005	2.32%	0.218%
81	14.968	2185	2190	2193	rBV5	32395	63344	5.25%	0.492%
82	14.998	2193	2195	2199	rVB4	29205	31144	2.58%	0.242%
83	15.057	2199	2205	2211	rVB	240512	286915	23.76%	2.230%
84	15.110	2211	2214	2219	rBV	337788	399293	33.07%	3.104%
85	15.168	2219	2224	2227	rVV	513719	598245	49.54%	4.650%
86	15.198	2227	2229	2235	rVB	125700	145615	12.06%	1.132%
87	15.327	2249	2251	2254	rVV4	21917	27841	2.31%	0.216%
88	15.374	2254	2259	2263	rVB6	28446	58279	4.83%	0.453%
89	15.562	2285	2291	2296	rBV4	22963	45495	3.77%	0.354%
90	15.992	2360	2364	2367	rBV6	16597	25535	2.11%	0.198%
91	16.315	2414	2419	2422	rBV4	27851	46907	3.88%	0.365%
92	16.351	2422	2425	2428	rVV5	14008	20422	1.69%	0.159%
93	16.492	2444	2449	2458	rVB2	134545	267634	22.16%	2.080%
94	16.568	2459	2462	2467	rVB7	10826	18912	1.57%	0.147%
95	16.651	2471	2476	2481	rBV2	36513	73273	6.07%	0.570%
96	16.709	2481	2486	2491	rBV4	17592	28076	2.33%	0.218%
97	16.898	2511	2518	2524	rBV	103476	193415	16.02%	1.503%
98	17.121	2548	2556	2564	rBV4	28593	84592	7.01%	0.658%
99	18.927	2859	2863	2869	rVB4	13823	31171	2.58%	0.242%
100	19.086	2882	2890	2891	rBV7	16625	28295	2.34%	0.220%

Sum of corrected areas: 12864341

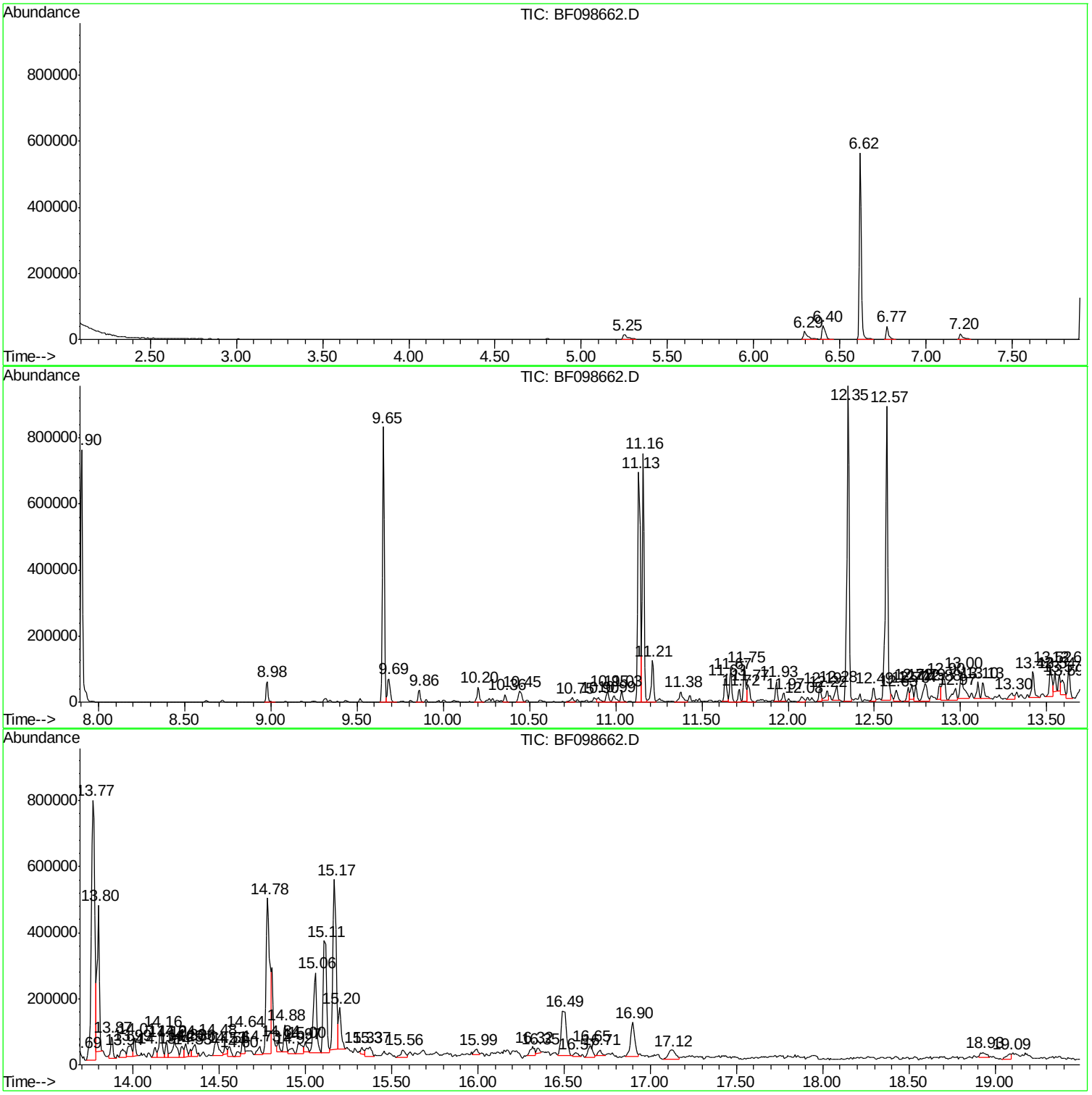
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092017\
Data File : BF098662.D
Acq On : 20 Sep 2017 16:12
Operator : SJ/JU
Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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:\HPCHEM1\BNA F\DATA\BF092017\
Data File : BF098662.D
Acq On : 20 Sep 2017 16:12
Operator : SJ/JU
Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

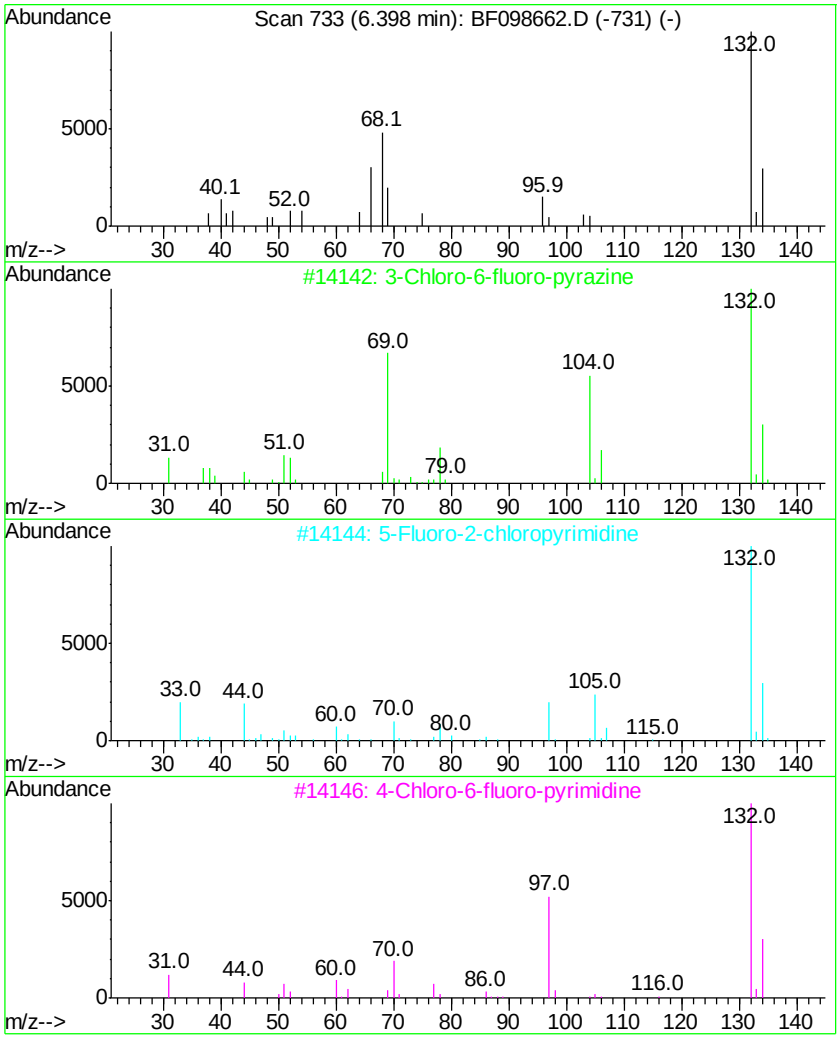
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

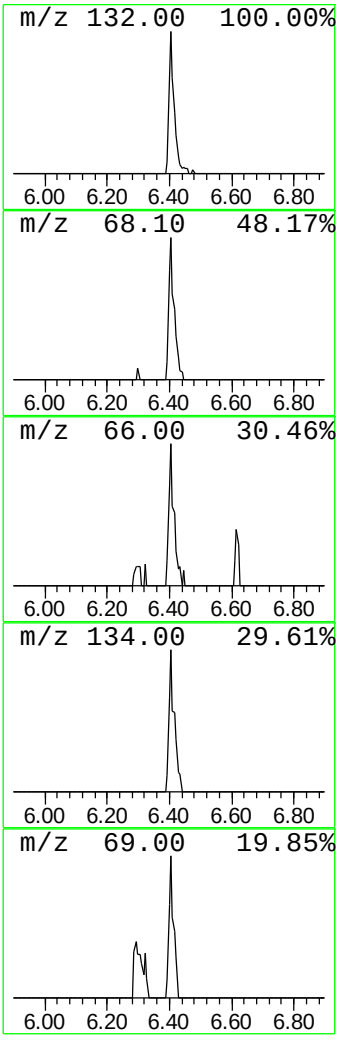
****

Peak Number 1 unknown6.40 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.40	2.02 ng	49587	1,4-Dichlorobenzene-d4	6.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	16
4	1H-Tetrazaborole, 5-chloro-4,5-d...	132	C2H6BClN4	021960-49-6	12
5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092017\
Data File : BF098662.D
Acq On : 20 Sep 2017 16:12
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Sample : I5285-05 50X
Misc :
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Instrument : BNA_F
ClientSampleId : CSTP-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

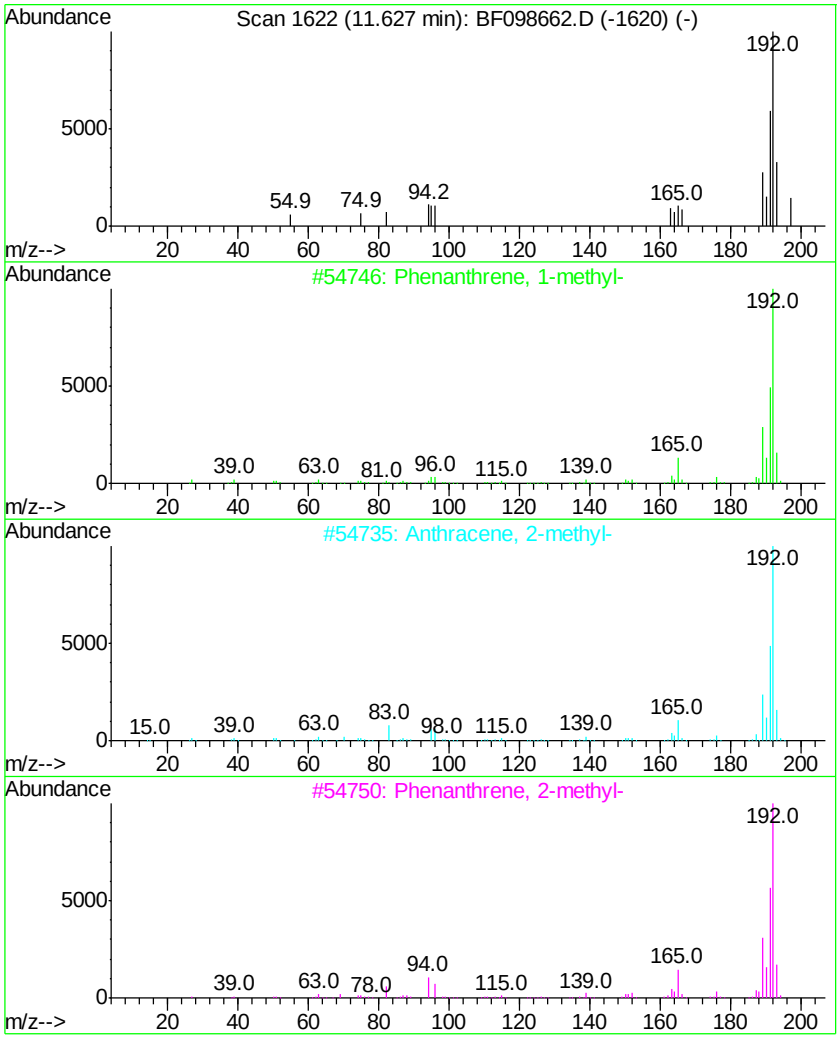
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

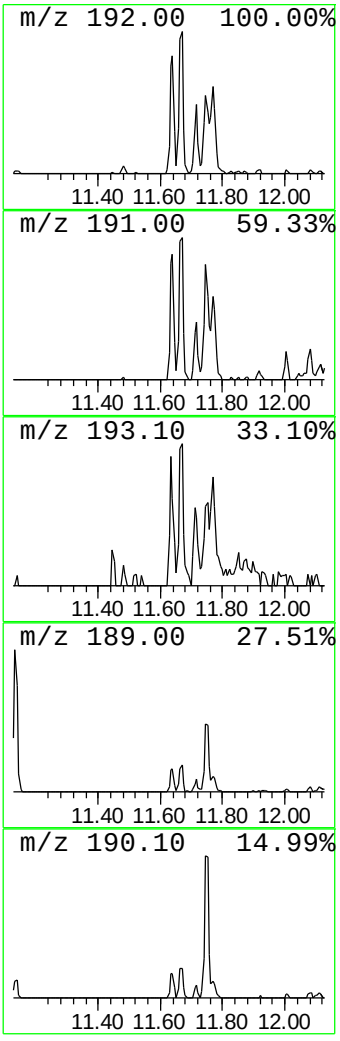
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.63	2.15 ng	63023	Phenanthrene-d10	11.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	90
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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TIC Library : C:\DATABASE\NIST11.L
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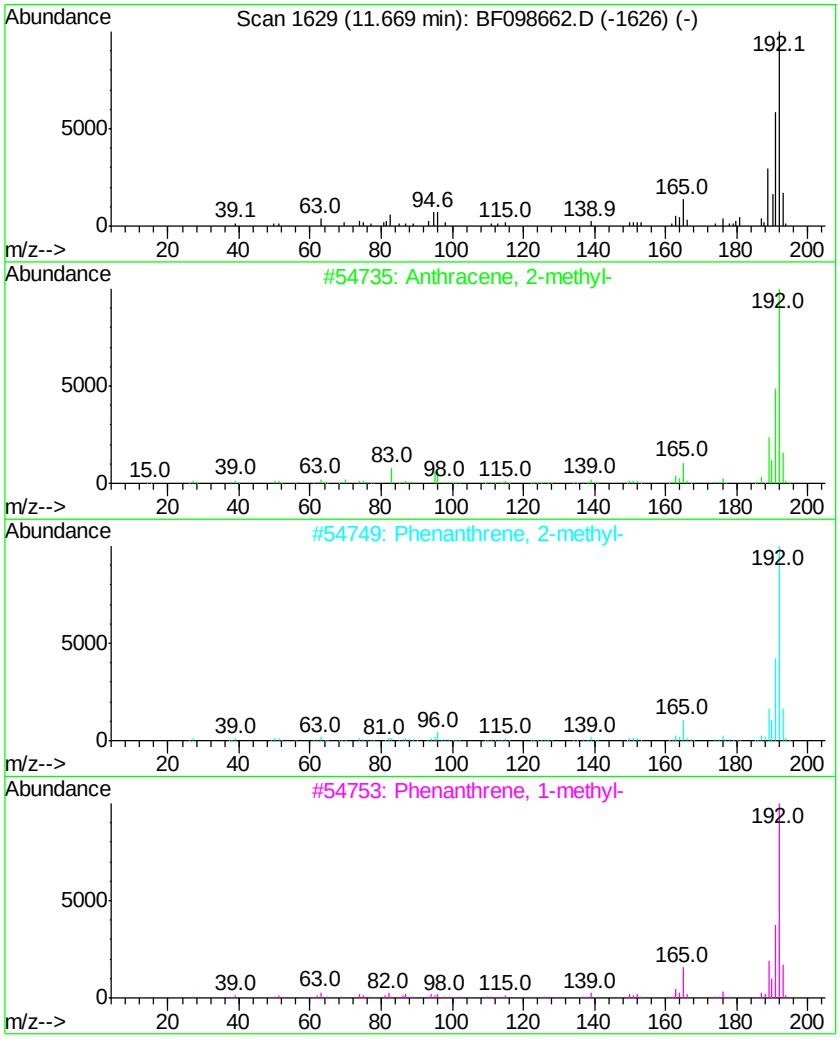
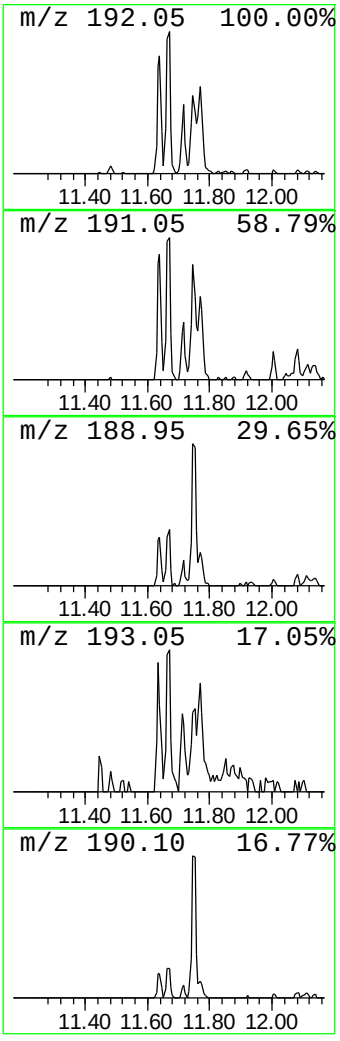
Peak Number 3 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	2.88 ng	84659	Phenanthrene-d10	11.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Misc :
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
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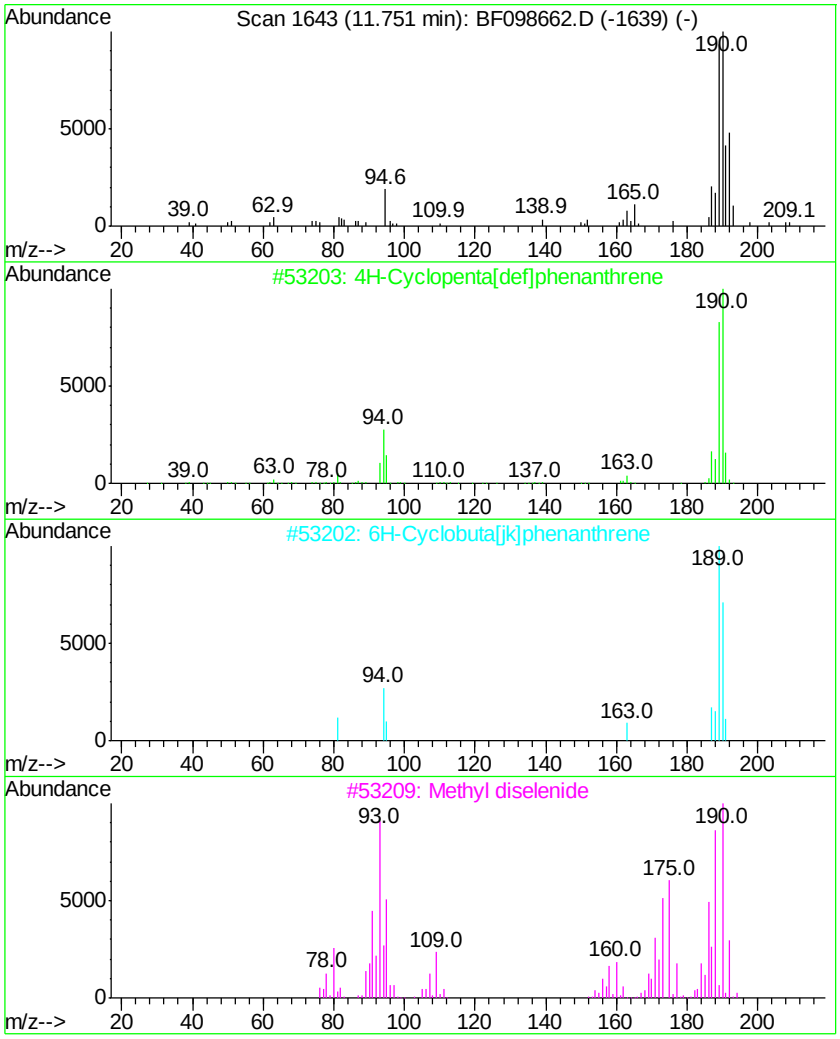
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

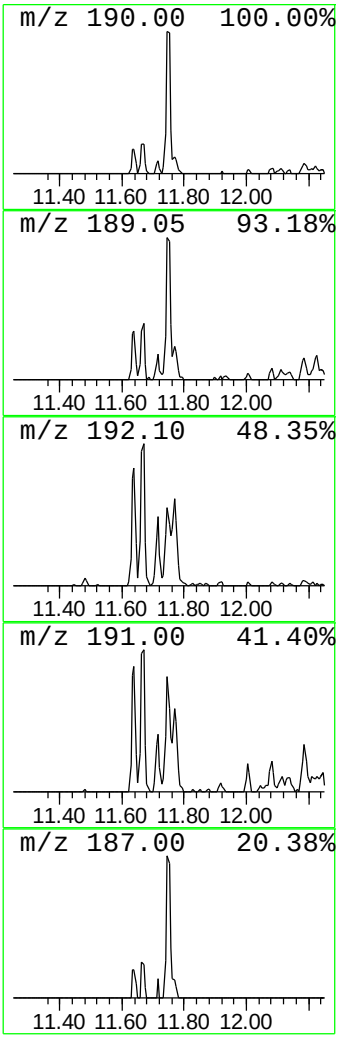
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	3.75 ng	109975	Phenanthrene-d10	11.13

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
3	Methyl diselenide	190	C2H6Se2	007101-31-7	41
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
5	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	25





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Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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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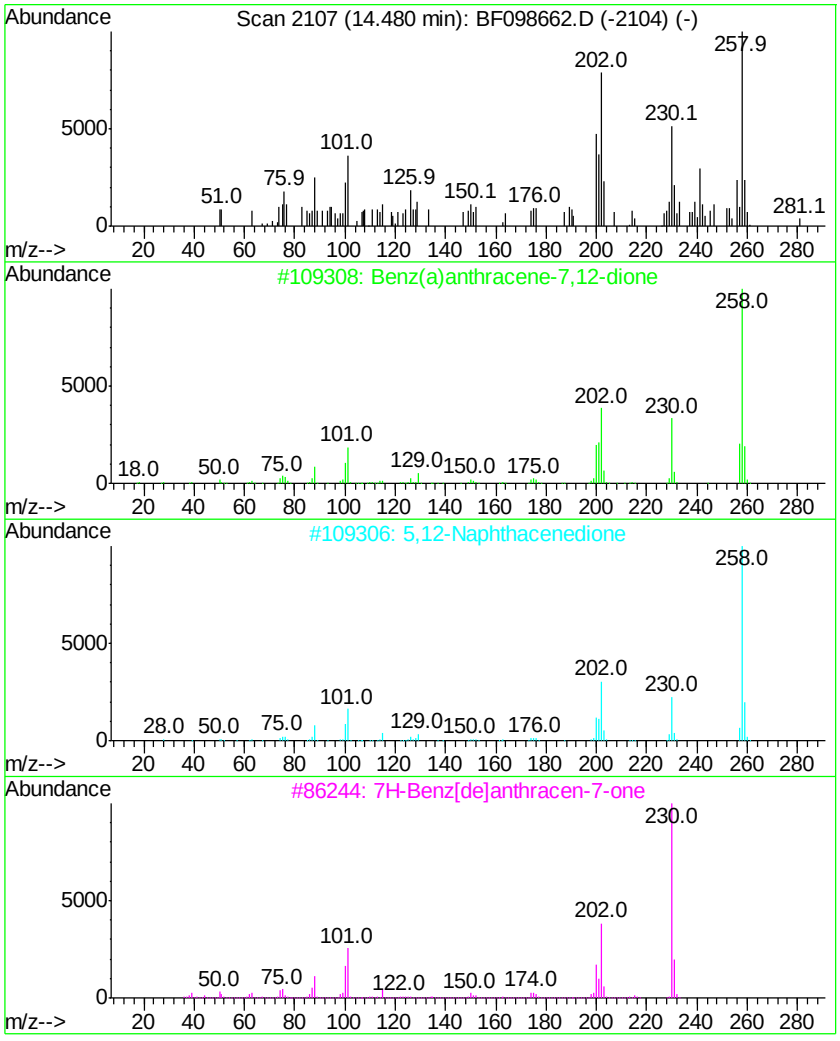
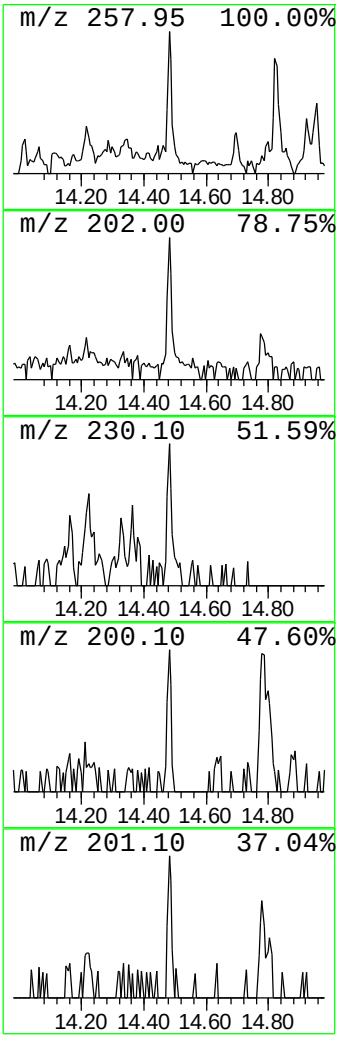
Peak Number 5 Benz(a)anthracene-7,12-dione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	2.67 ng	79767	Perylene-d12	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	89
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	70
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	46
4	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	41
5	1,2-Dihydro-2,4'-biquinoline	258	C18H14N2	1000326-82-7	30





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092017\
Data File : BF098662.D
Acq On : 20 Sep 2017 16:12
Operator : SJ/JU
Sample : I5285-05 50X
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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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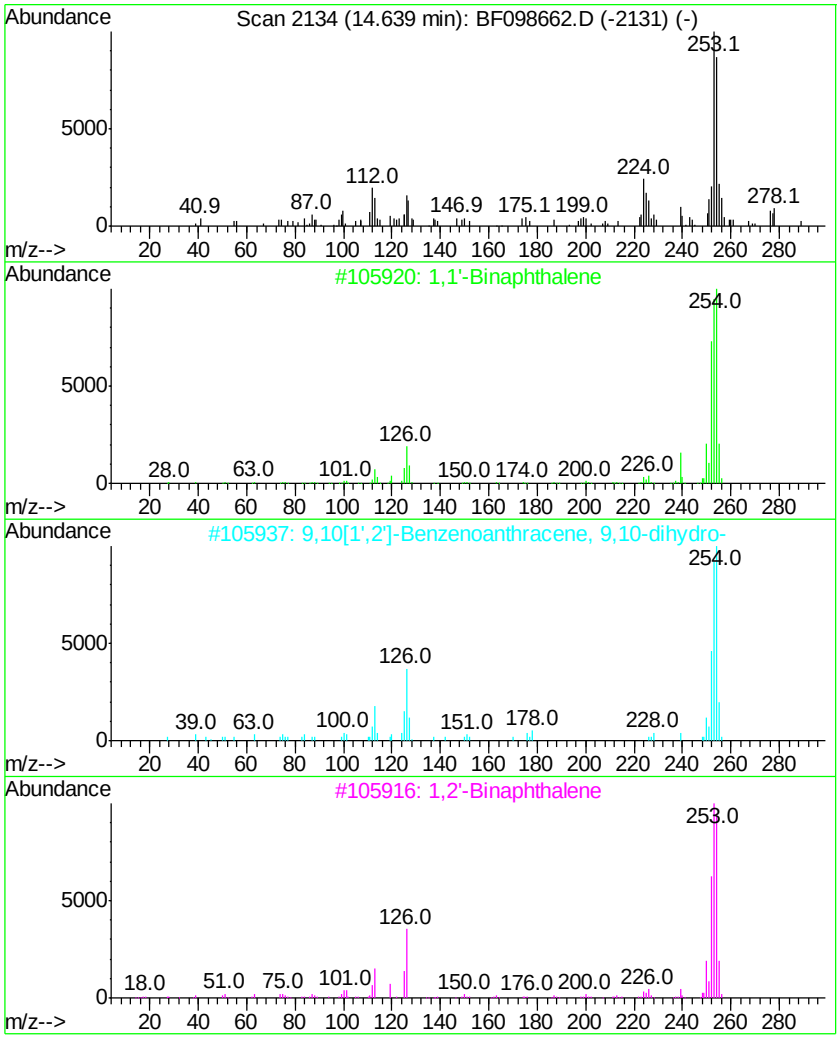
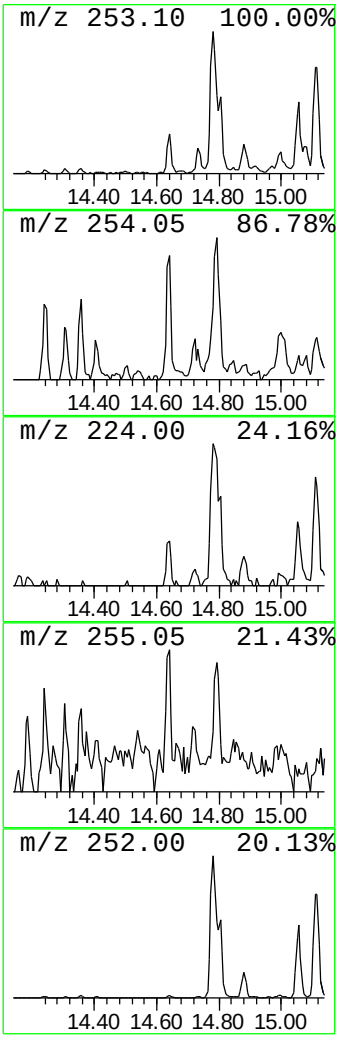
Peak Number 6 1,1'-Binaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.64	2.08 ng	62130	Perylene-d12	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	76
2	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	76
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	68
4	1H-Indene, 1,1'-(1,2-ethanediyli...	254	C20H14	072088-04-1	68
5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	68





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Sample : I5285-05 50X
Misc :
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ClientSampleId : CSTP-5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
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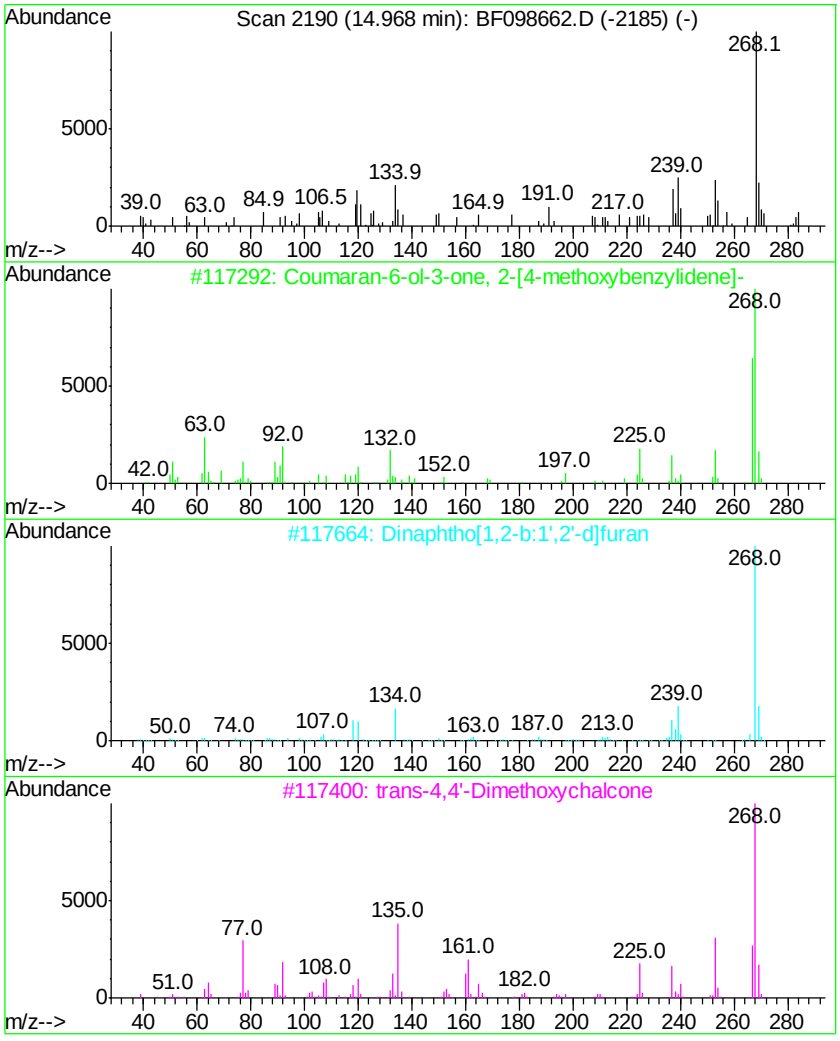
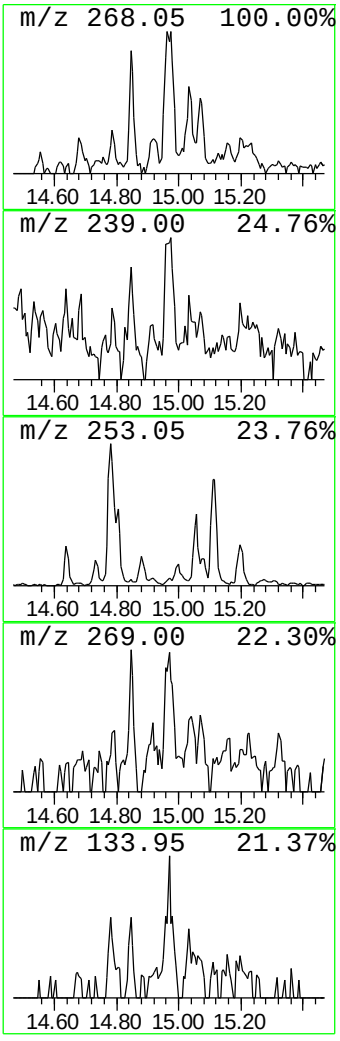
Peak Number 8 Coumaran-6-ol-3-one, 2-[4-m... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.97	2.12 ng	63344	Perylene-d12	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Coumaran-6-ol-3-one, 2-[4-methox...	268	C16H12O4	020727-61-1	52
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	50
3	trans-4,4'-Dimethoxychalcone	268	C17H16O3	041564-67-4	50
4	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	49
5	Naphthalene, 1,1'-methylenebis-	268	C21H16	000607-50-1	47





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Sample : I5285-05 50X
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ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

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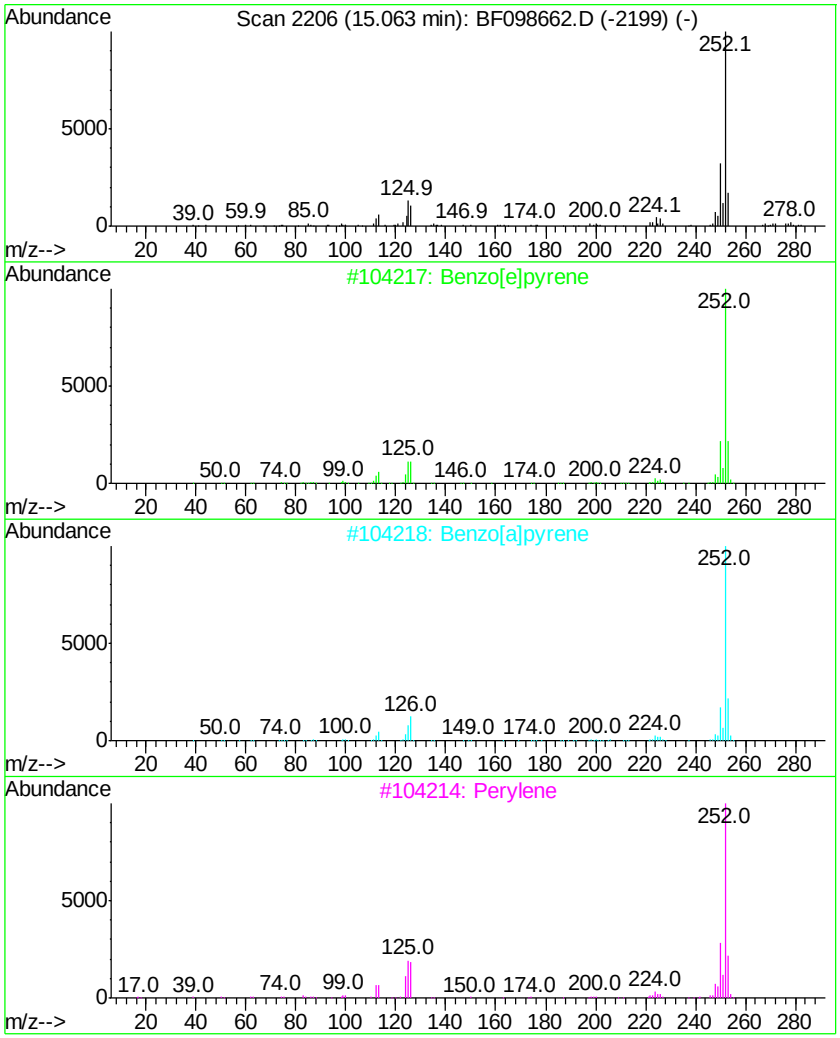
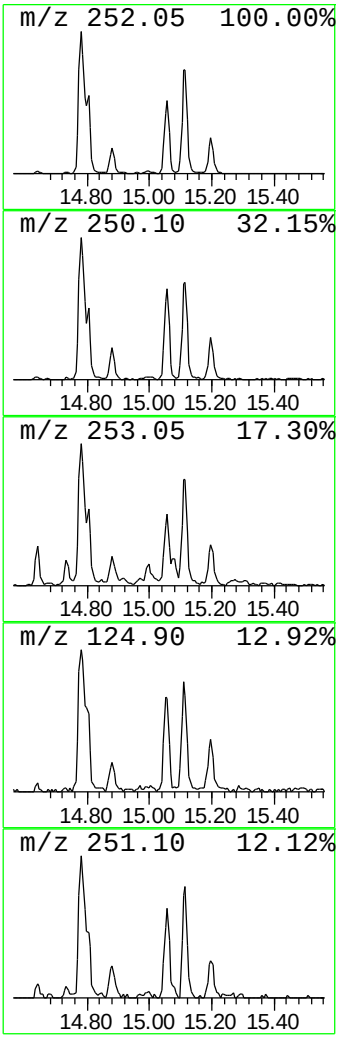
Peak Number 9 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	9.59 ng	286915	Perylene-d12	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	91
3	Perylene	252	C20H12	000198-55-0	91
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





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ClientSampleId : CSTP-5

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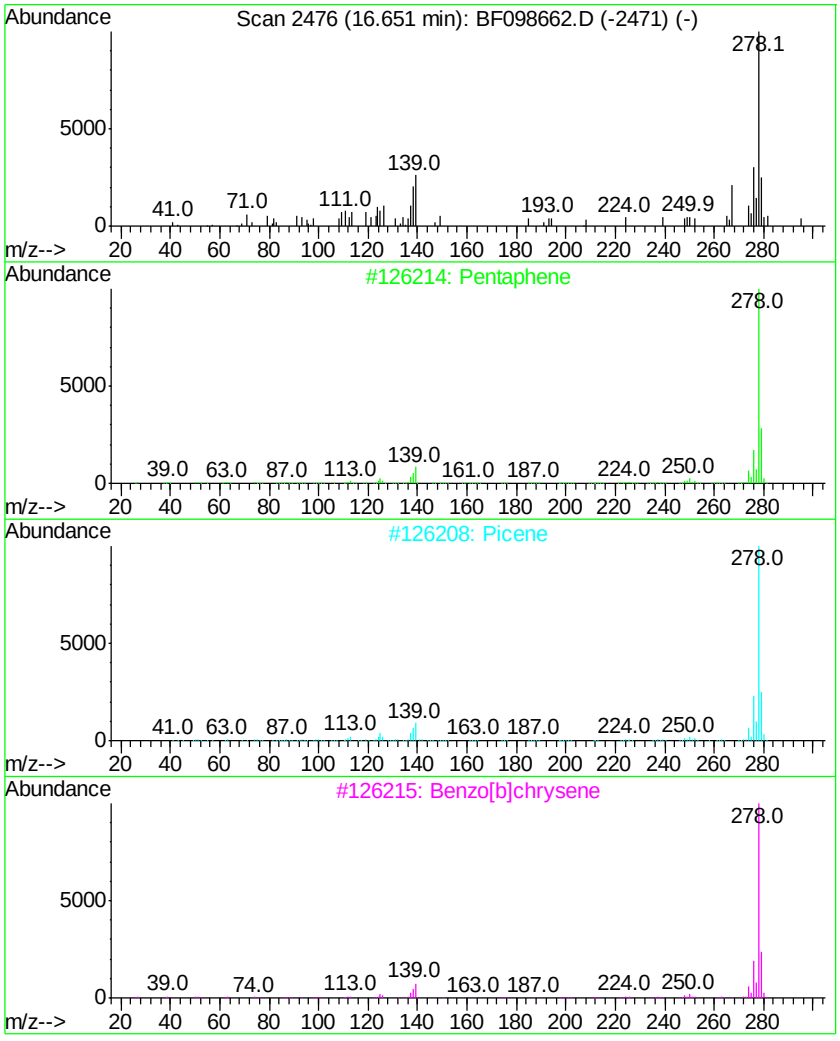
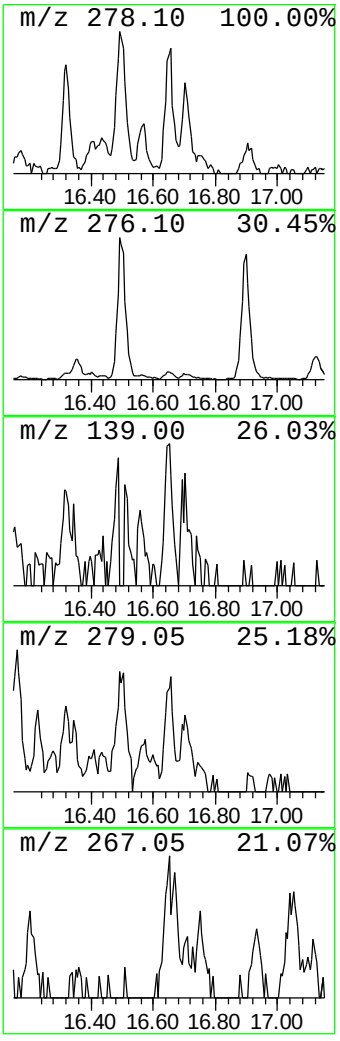
Peak Number 10 Pentaphene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.65	2.45 ng	73273	Perylene-d12	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentaphene	278	C22H14	000222-93-5	93
2	Picene	278	C22H14	000213-46-7	86
3	Benzo[b]chrysene	278	C22H14	000214-17-5	86
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	70
5	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	70





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Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CSTP-5

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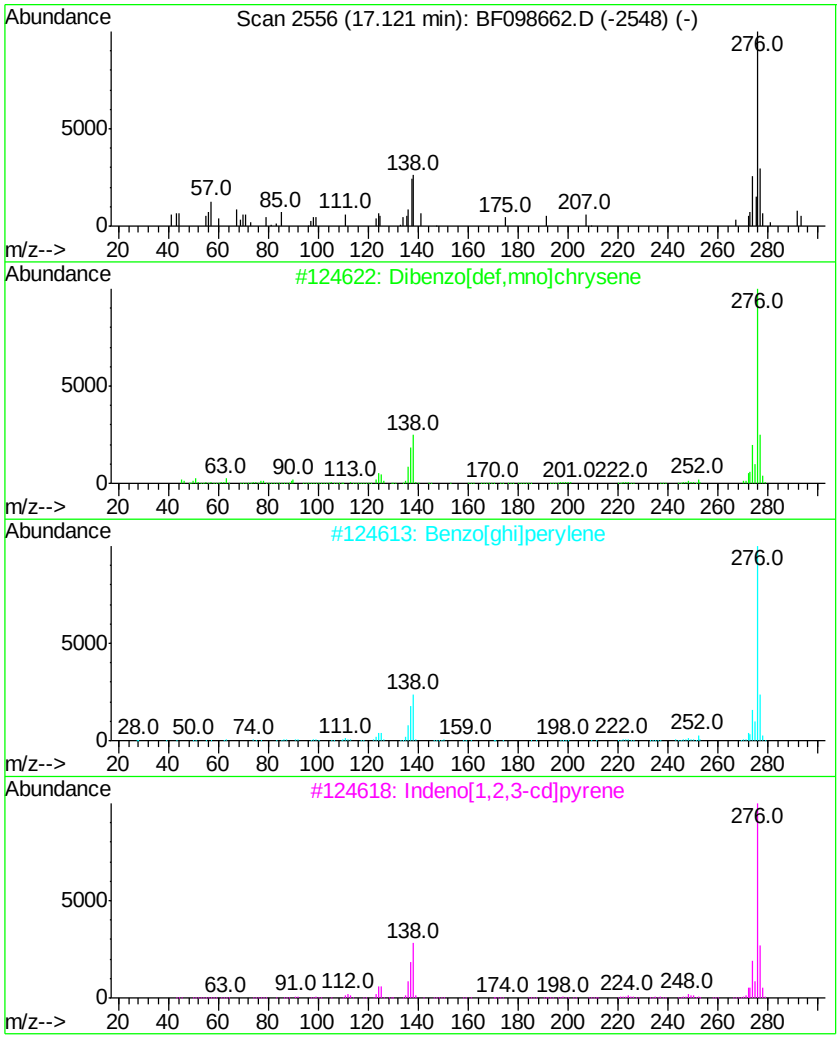
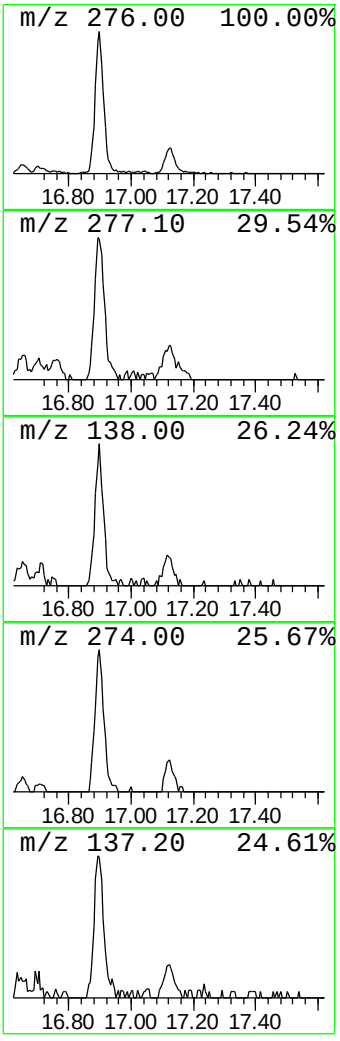
Peak Number 12 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.12	2.83 ng	84592	Perylene-d12	15.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	87
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	81
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	76
4	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	38
5	2-Naphthalenol, 1-[(2,4-dimethyl...	276	C18H16N2O	003118-97-6	37





Tentatively Identified Compound (LSC) summary

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TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.40	6.40	2.0	ng	49587	1	6.62	491168	20.0
Phenanthrene, 1-m...	11.63	2.1	ng	63023	4	11.13	587163	20.0
Anthracene, 2-met...	11.67	2.9	ng	84659	4	11.13	587163	20.0
4H-Cyclopenta[def...	11.75	3.8	ng	109975	4	11.13	587163	20.0
Benz(a)anthracene...	14.48	2.7	ng	79767	6	15.17	598245	20.0
1,1'-Binaphthalene	14.64	2.1	ng	62130	6	15.17	598245	20.0
Coumaran-6-ol-3-o...	14.97	2.1	ng	63344	6	15.17	598245	20.0
Benzo[e]pyrene	15.06	9.6	ng	286915	6	15.17	598245	20.0
Pentaphene	16.65	2.5	ng	73273	6	15.17	598245	20.0
Dibenzo[def,mno]c...	17.12	2.8	ng	84592	6	15.17	598245	20.0