LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

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-BF113017.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	5.463	570	574	585	rBV	410055	416091	29.92%	2.333%
2	6.475	742	746	763	rBV	461020	418389	30.08%	2.346%
3	6.616	766	770	773	rBV	553161	446122	32.08%	2.501%
4	6.845	806	809	815	rBV	322104	253614	18.23%	1.422%
5	7.004	832	836	839	rBV	385409	349667	25.14%	1.960%
6	7.410	901	905	917	rBV	299372	251555	18.09%	1.410%
7	8.128	1024	1027	1030	rBV	385223	310753	22.34%	1.742%
8	9.198	1206	1209	1213	rBV	522246	459148	33.01%	2.574%
9	9.539	1264	1267	1270	rBV	35386	33341	2.40%	0.187%
10	9.745	1299	1302	1306	rBV	64910	50363	3.62%	0.282%
11	9.886	1322	1326	1329	rBV	341321	293572	21.11%	1.646%
12	9.916	1329	1331	1335	rVB	110728	80640	5.80%	0.452%
13	10.086	1355	1360	1364	rVV2	43877	43068	3.10%	0.241%
14	10.433	1415	1419	1424	rVB	90582	80218	5.77%	0.450%
15	10.498	1424	1430	1432	rBV	24658	31106	2.24%	0.174%
16	10.675	1457	1460	1466	rBV	267394	228647	16.44%	1.282%
17	10.980	1506	1512	1515	rBV3	35712	46245	3.32%	0.259%
18	11.104	1529	1533	1535	rVV4	19239	26377	1.90%	0.148%
19	11.128	1535	1537	1542	rVV3	26514	38621	2.78%	0.217%
20	11.180	1542	1546	1549	rVV	34220	33506	2.41%	0.188%
21	11.228	1549	1554	1557	rVV3	28662	40098	2.88%	0.225%
22	11.269	1559	1561	1568	rVB	46491	43032	3.09%	0.241%
23	11.375	1575	1579	1581	rBV	316552	277782	19.97%	1.557%
24	11.404	1581	1584	1587	rVV	834847	749946	53.92%	4.204%
25	11.451	1587	1592	1595	rVV	238669	192055	13.81%	1.077%
26	11.610	1612	1619	1624	rBV2	55927	75769	5.45%	0.425%
27	11.704	1631	1635	1640	rVB2	34489	42113	3.03%	0.236%
28	11.875	1659	1664	1667	rBV	157617	161362	11.60%	0.905%
29	11.904	1667	1669	1673	rVB	208478	168179	12.09%	0.943%
30	11.951	1673	1677	1680	rBV	73636	67081	4.82%	0.376%
31	11.992	1680	1684	1686	rVV	242244	265128	19.06%	1.486%
32	12.010	1686	1687	1693	rVB	119384	79991	5.75%	0.448%
33	12.169	1711	1714	1717	rVV	104301	92544	6.65%	0.519%
34	12.204	1717	1720	1724	rVB	79512	68556	4.93%	0.384%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

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-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.322	1734	1740	1743	rBV2	44399	54701	3.93%	0.307%
36	12.351	1743	1745	1747	rVV	39426	28708	2.06%	0.161%
37	12.427	1752	1758	1760	rBV	106495	111352	8.01%	0.624%
38	12.463	1760	1764	1766	rVV3	56591	85582	6.15%	0.480%
39	12.486	1766	1768	1770	rVB	34853	24869	1.79%	0.139%
40	12.522	1770	1774	1777	rBV4	74531	90990	6.54%	0.510%
41	12.598	1782	1787	1790	rBV	1357153	1210814	87.06%	6.788%
42	12.657	1795	1797	1799	rVB	39330	28833	2.07%	0.162%
43	12.745	1805	1812	1814	rBV3	57406	86651	6.23%	0.486%
44	12.769	1814	1816	1819	rVB2	39692	36908	2.65%	0.207%
45	12.827	1819	1826	1831	rBV	1163937	1390842	100.00%	7.797%
46	12.869	1831	1833	1837	rVB2	68056	70572	5.07%	0.396%
47	12.957	1837	1848	1851	rBV2	426676	444743	31.98%	2.493%
48	12.980	1851	1852	1856	rVB	80518	64719	4.65%	0.363%
49	13.039	1857	1862	1866	rBV2	95135	158765	11.42%	0.890%
50	13.151	1878	1881	1884	rVB	204885	190107	13.67%	1.066%
51	13.180	1884	1886	1889	rBV3	18320	25681	1.85%	0.144%
52	13.216	1889	1892	1895	rVV	143246	116355	8.37%	0.652%
53	13.257	1895	1899	1901	rBV2	131391	148772	10.70%	0.834%
54	13.280	1901	1903	1906	rVB2	36942	33642	2.42%	0.189%
55	13.345	1911	1914	1917	rBV	80154	71319	5.13%	0.400%
56	13.380	1917	1920	1923	rBV	82466	80112	5.76%	0.449%
57	13.433	1926	1929	1932	rBV3	94691	115284	8.29%	0.646%
58	13.527	1939	1945	1946	rBV3	17093	25378	1.82%	0.142%
59	13.574	1950	1953	1955	rVV	37654	39864	2.87%	0.223%
60	13.633	1960	1963	1965	rBV3	33973	36833	2.65%	0.206%
61	13.663	1965	1968	1971	rVB	119496	101675	7.31%	0.570%
62	13.769	1981	1986	1989	rBV	136047	167870	12.07%	0.941%
63	13.798	1989	1991	1993	rVV	133669	114354	8.22%	0.641%
64	13.821	1993	1995	1997	rVV2	103973	117227	8.43%	0.657%
65	13.874	2001	2004	2007	rVB	113567	105307	7.57%	0.590%
66	13.939	2010	2015	2017	rBV	38881	52842	3.80%	0.296%
67	13.969	2017	2020	2021	rVV	63174	64952	4.67%	0.364%
68	14.021	2024	2029	2032	rVV2	748464	1130913	81.31%	6.340%
69	14.051	2032	2034	2041	rVB	667902	624718	44.92%	3.502%
70	14.127	2041	2047	2053	rBV3	151306	245215	17.63%	1.375%
71	14.180	2053	2056	2060	rVV4	81353	128218	9.22%	0.719%

LSC Area Percent Report

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Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

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-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.216	2060	2062	2064	rVV	60574	58755	4.22%	0.329%
73	14.251	2064	2068	2071	rVV2	71672	100680	7.24%	0.564%
74	14.280	2071	2073	2076	rVB3	36962	39890	2.87%	0.224%
75	14.339	2081	2083	2086	rVB2	29876	25939	1.86%	0.145%
76	14.368	2086	2088	2091	rBV	57574	62417	4.49%	0.350%
77	14.410	2091	2095	2098	rVV	161324	175987	12.65%	0.987%
78	14.439	2098	2100	2103	rVV	77711	82250	5.91%	0.461%
79	14.486	2104	2108	2110	rVV4	50557	78442	5.64%	0.440%
80	14.504	2110	2111	2114	rVV	53645	54567	3.92%	0.306%
81	14.533	2114	2116	2118	rVV	86032	82583	5.94%	0.463%
82	14.557	2118	2120	2124	rVV2	84536	82312	5.92%	0.461%
83	14.604	2124	2128	2131	rVB2	52343	65500	4.71%	0.367%
84	14.727	2146	2149	2152	rBV2	45510	55673	4.00%	0.312%
85	14.910	2177	2180	2187	rVB2	64962	87953	6.32%	0.493%
86	15.074	2202	2208	2211	rBV	462345	745125	53.57%	4.177%
87	15.180	2222	2226	2230	rBV	96666	106269	7.64%	0.596%
88	15.268	2237	2241	2242	rBV3	32790	42941	3.09%	0.241%
89	15.380	2255	2260	2266	rVB	259866	353228	25.40%	1.980%
90	15.445	2266	2271	2275	rBV	398838	488656	35.13%	2.739%
91	15.504	2277	2281	2284	rVV	191254	250467	18.01%	1.404%
92	15.533	2284	2286	2293	rVB2	115642	155623	11.19%	0.872%
93	15.857	2339	2341	2348	rVB5	22226	32354	2.33%	0.181%
94	15.927	2350	2353	2360	rVB6	21995	40902	2.94%	0.229%
95	16.068	2373	2377	2381	rBV2	26708	36018	2.59%	0.202%
96	16.992	2528	2534	2542	rVB	154668	316047	22.72%	1.772%
97	17.162	2558	2563	2567	rBV	26168	47284	3.40%	0.265%
98	17.221	2570	2573	2577	rVB3	19278	28603	2.06%	0.160%
99	17.445	2604	2611	2620	rVB	102608	229006	16.47%	1.284%
100	17.692	2648	2653	2662	rVB3	30171	71646	5.15%	0.402%

Sum of corrected areas: 17837483

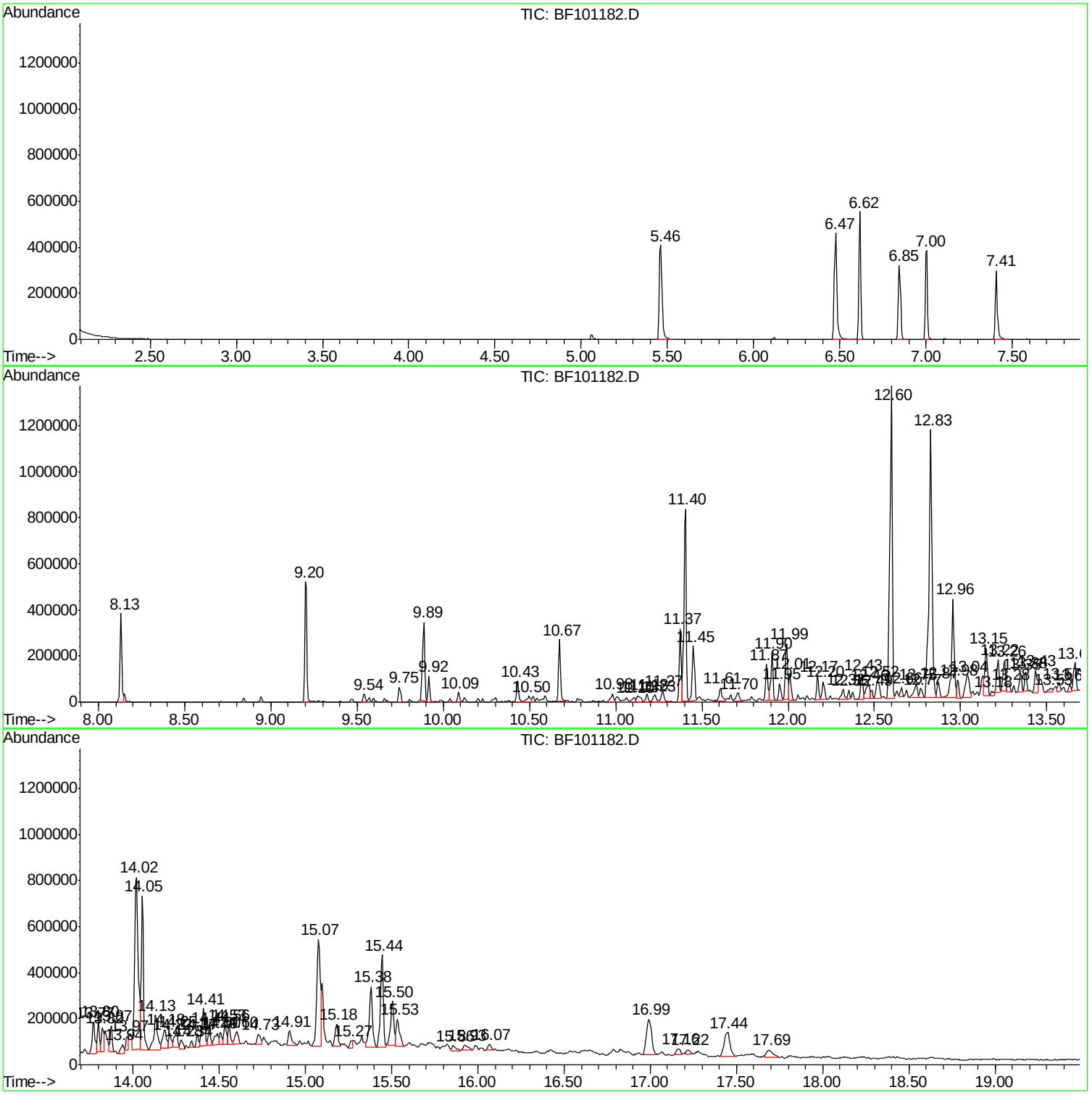
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

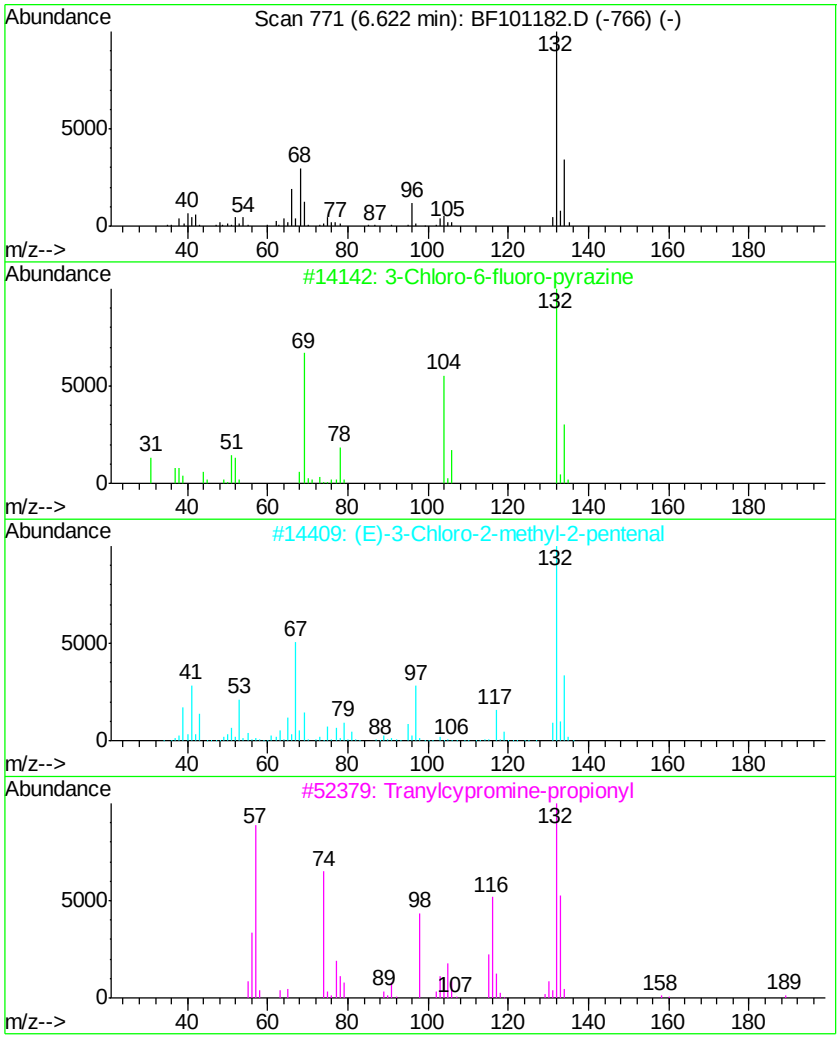
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

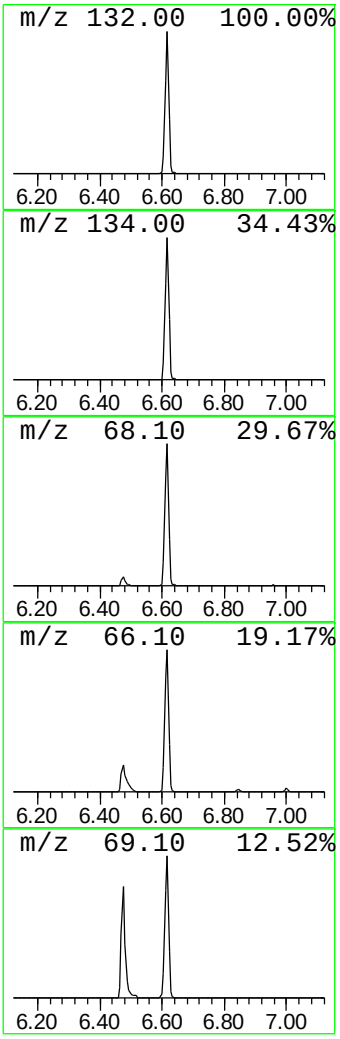
****

Peak Number 1 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	35.18 ng	446122	1,4-Dichlorobenzene-d4	6.85

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	25
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

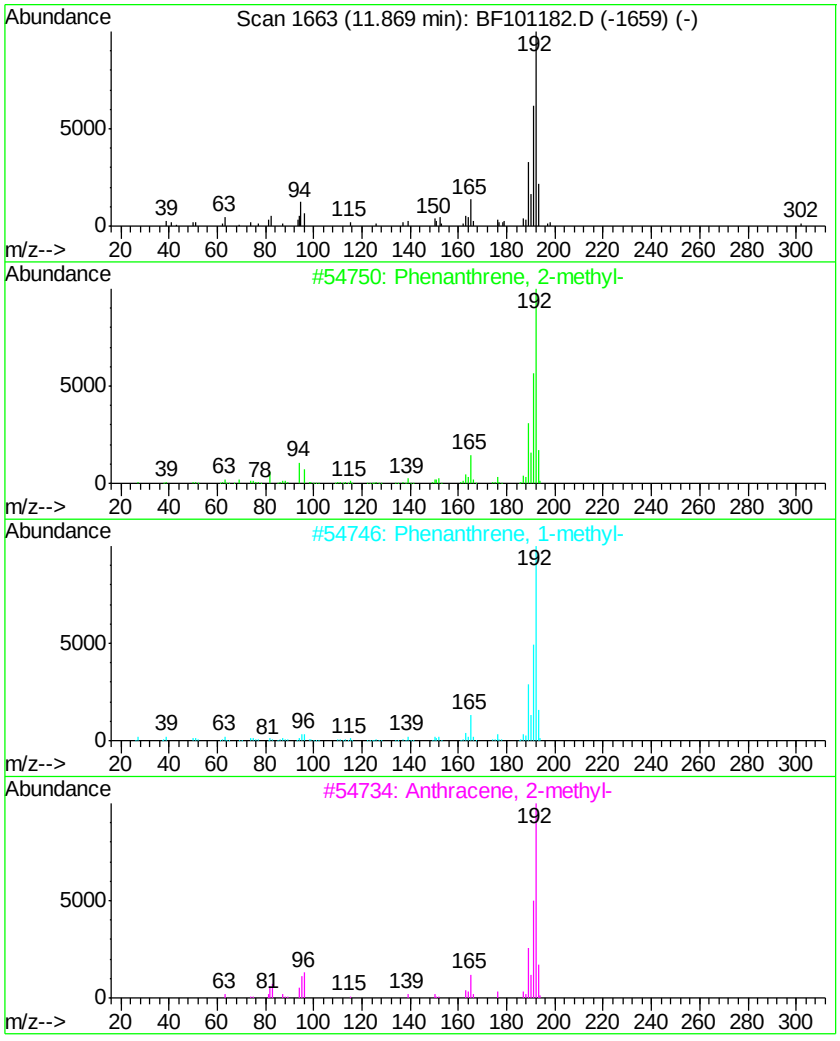
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

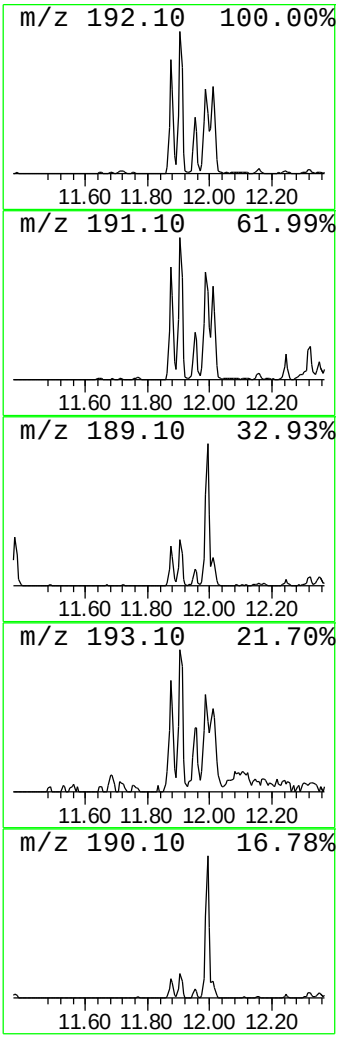
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	11.62 ng	161362	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

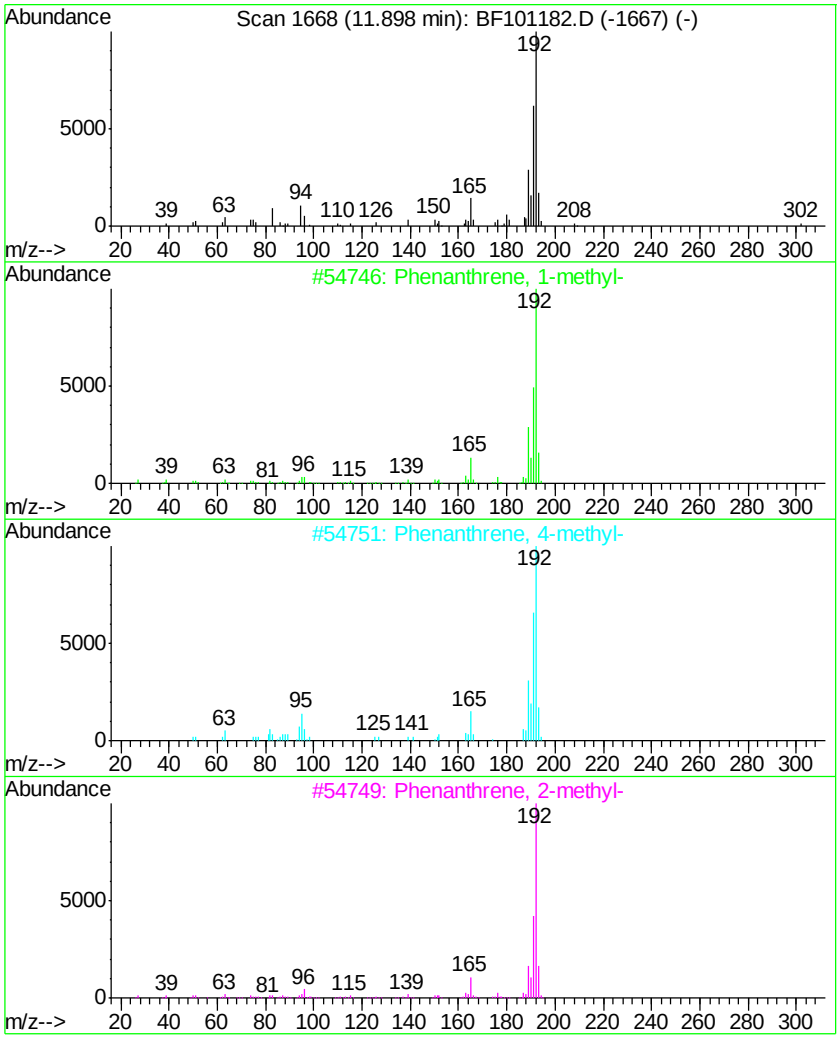
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

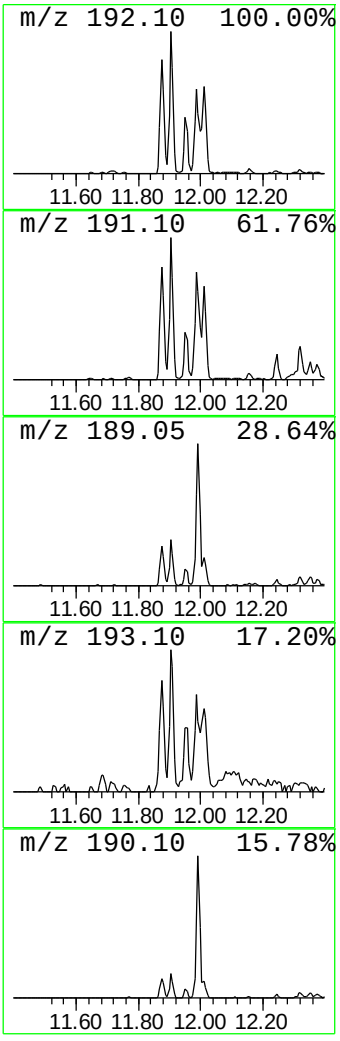
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	12.11 ng	168179	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

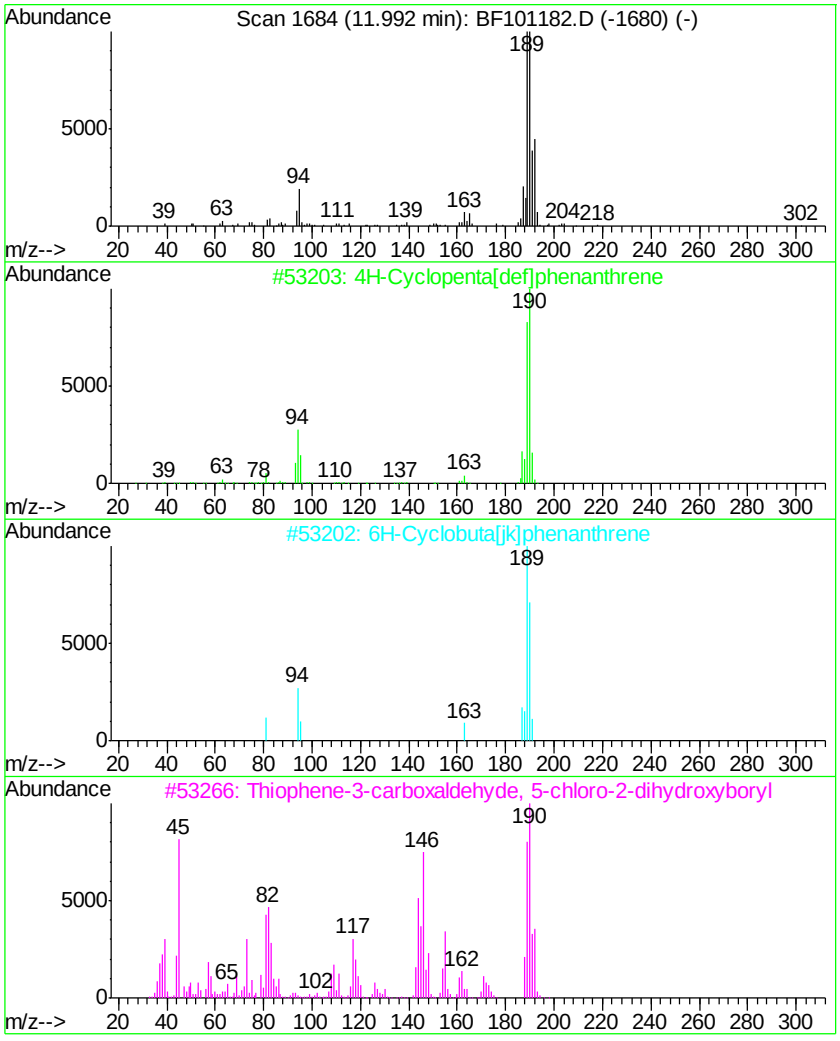
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

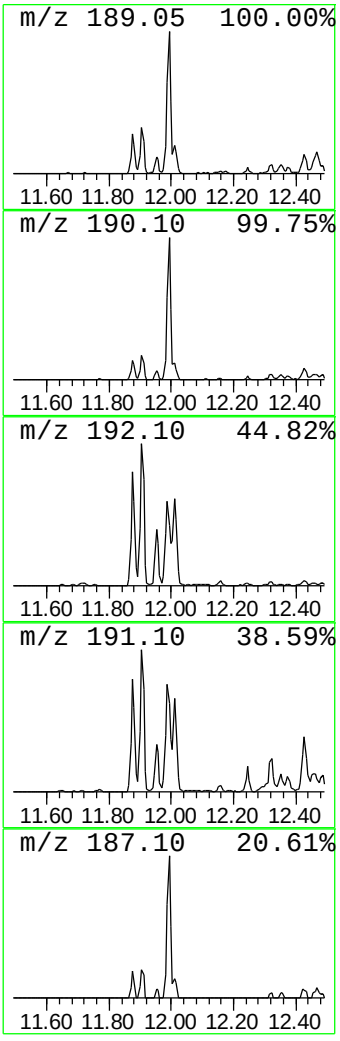
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	19.09 ng	265128	Phenanthrene-d10	11.37

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	Methyl diselenide	190	C2H6Se2	007101-31-7	45





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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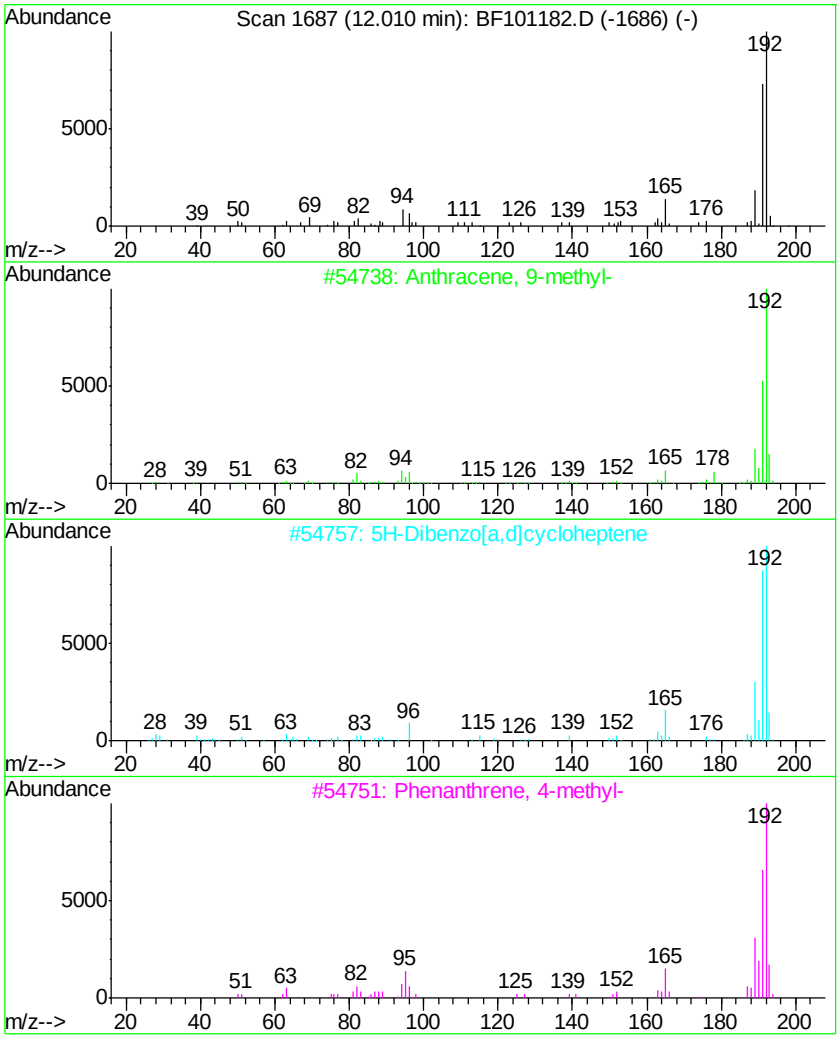
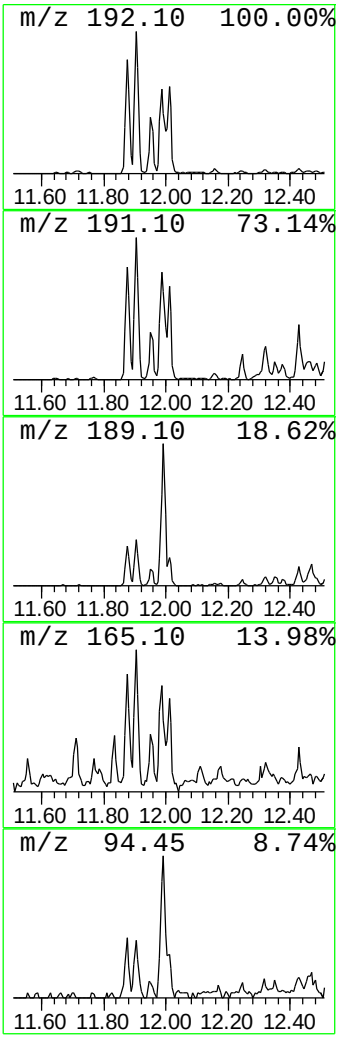
Peak Number 7 Anthracene, 9-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	5.76 ng	79991	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	78
4	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	72
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	72





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Operator : SJ/JU
Sample : I6640-02 2X
Misc :
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ClientSampleId : SB-11(6-8)-20171129

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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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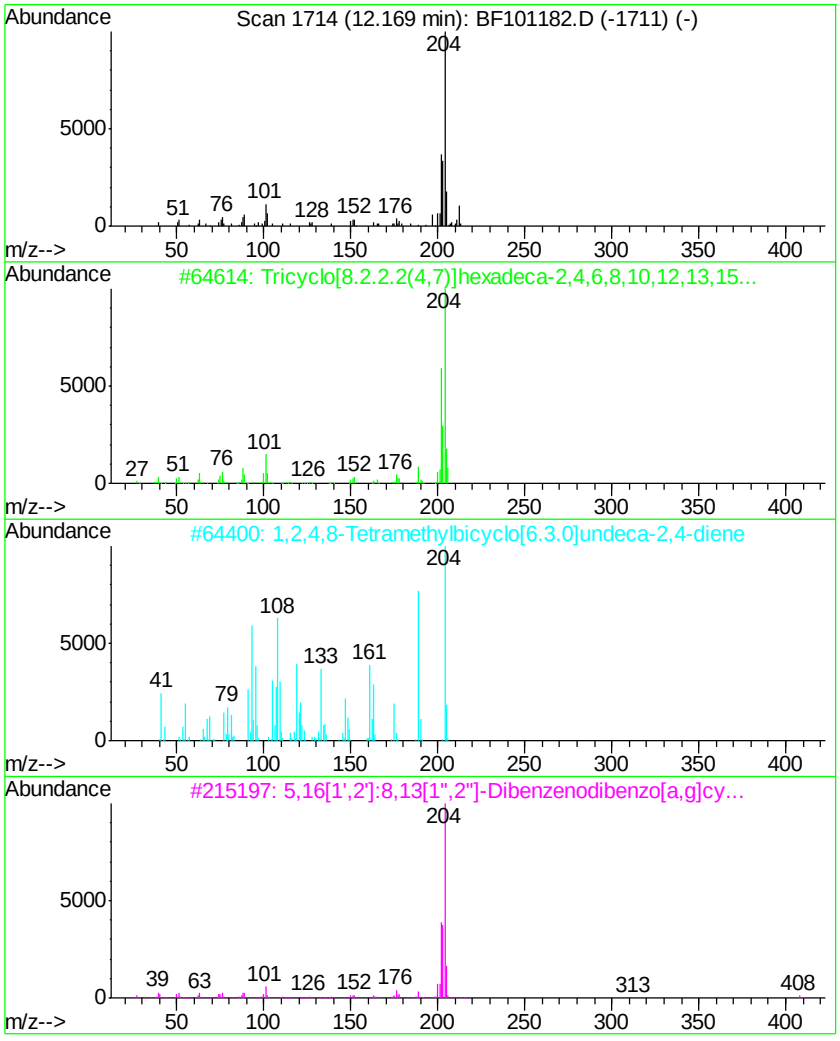
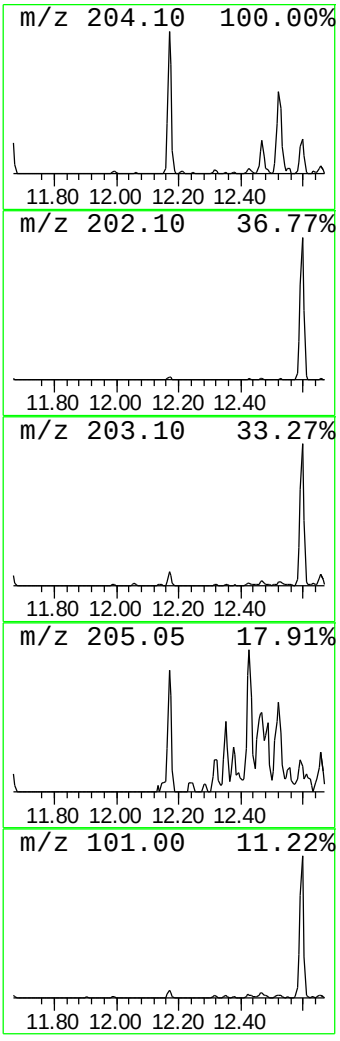
Peak Number 8 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	6.66 ng	92544	Phenanthrene-d10	11.37

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	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53





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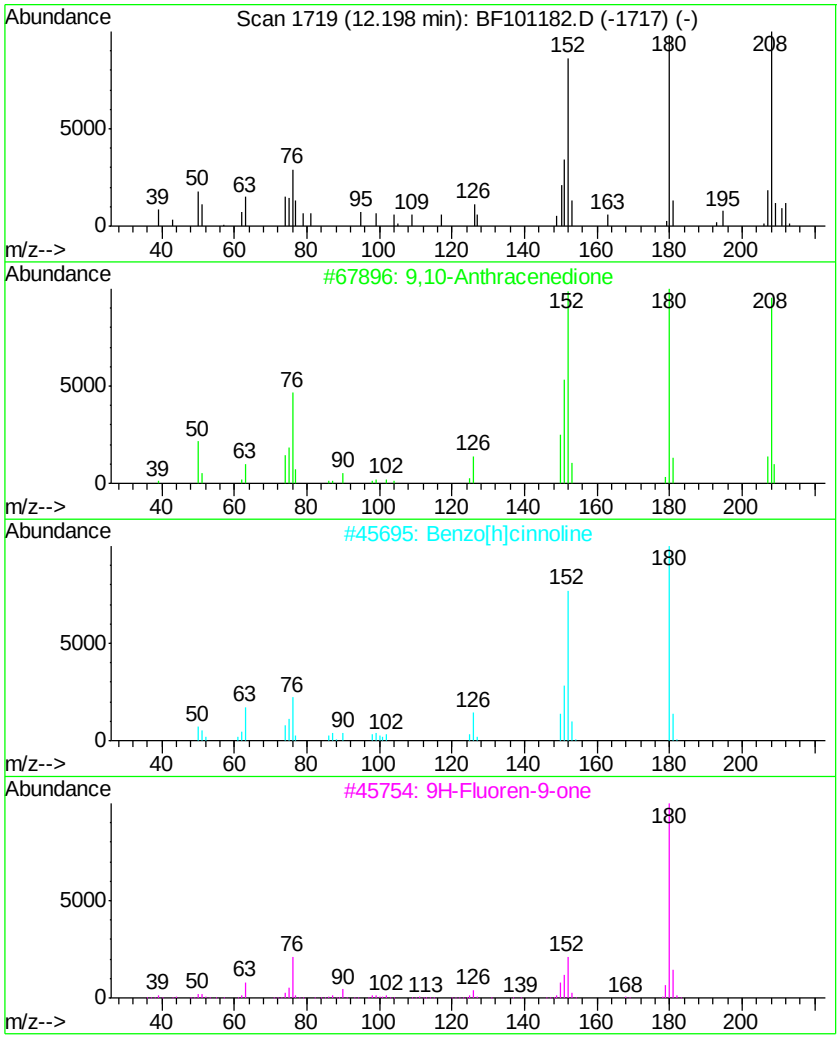
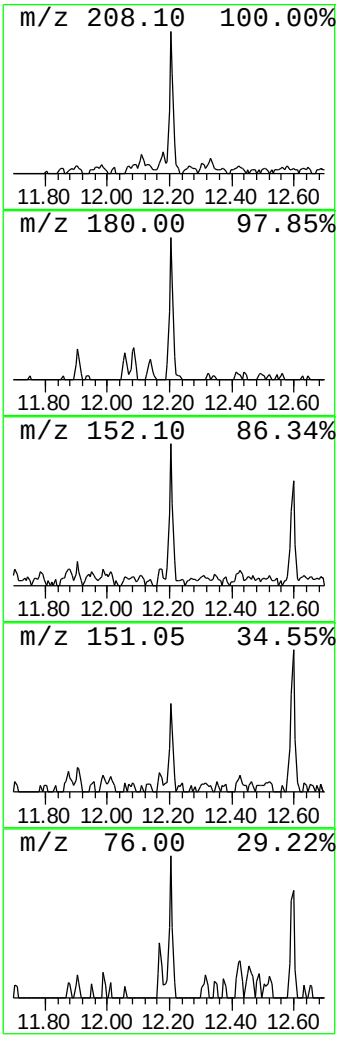
Peak Number 9 9,10-Anthracenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	4.94 ng	68556	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55





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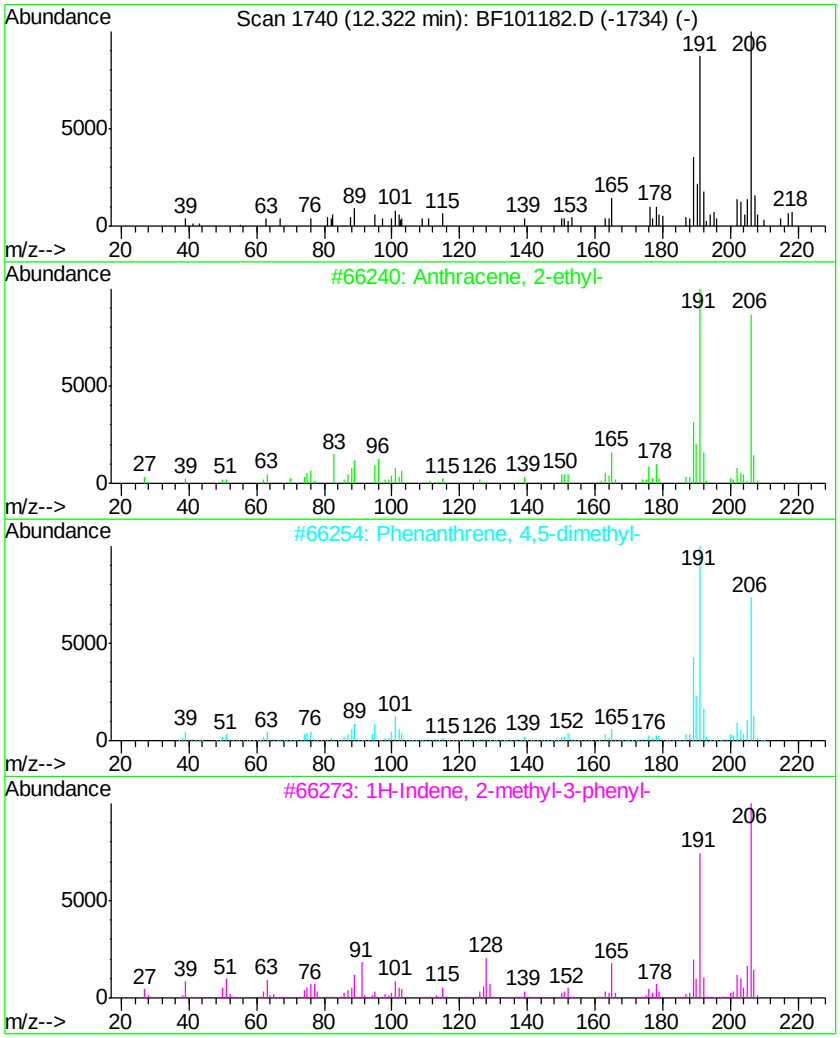
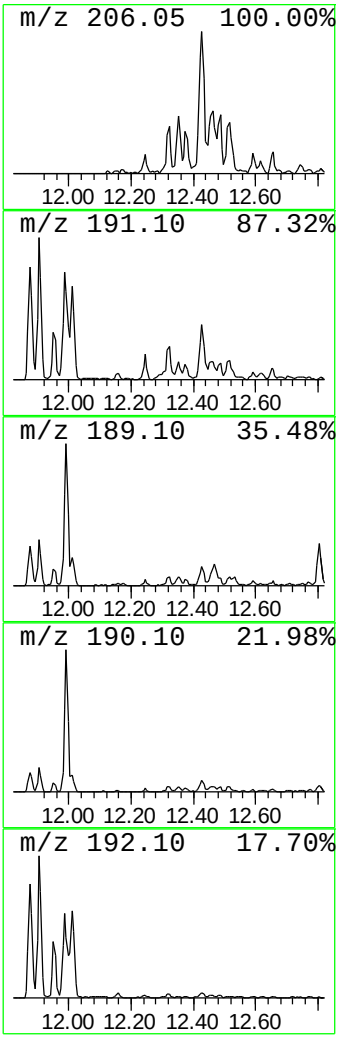
Peak Number 10 Anthracene, 2-ethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	3.94 ng	54701	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	95
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	94
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	93
4	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	90
5	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	87





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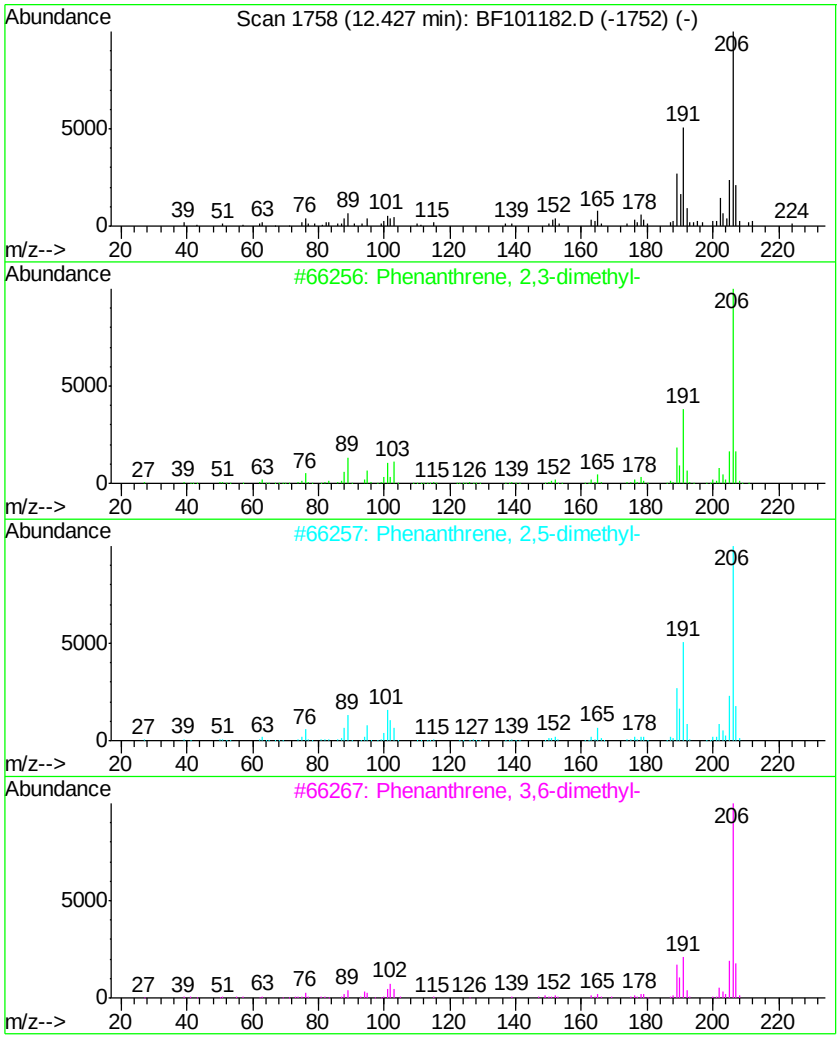
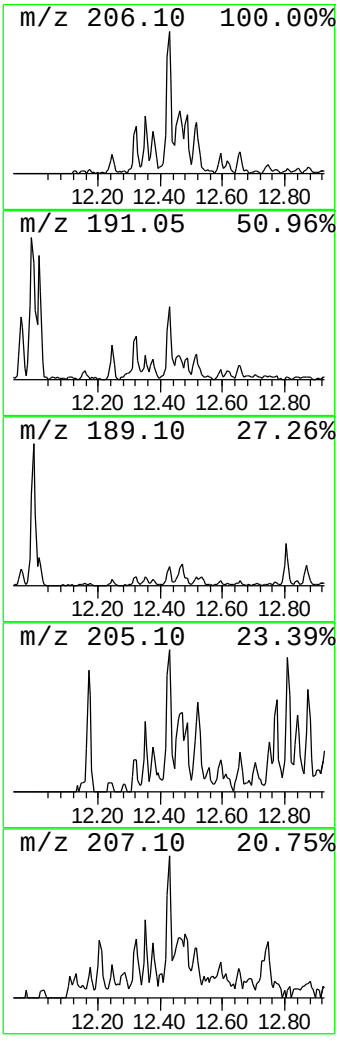
Peak Number 11 Phenanthrene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	8.02 ng	111352	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87





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Misc :
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ClientSampleId : SB-11(6-8)-20171129

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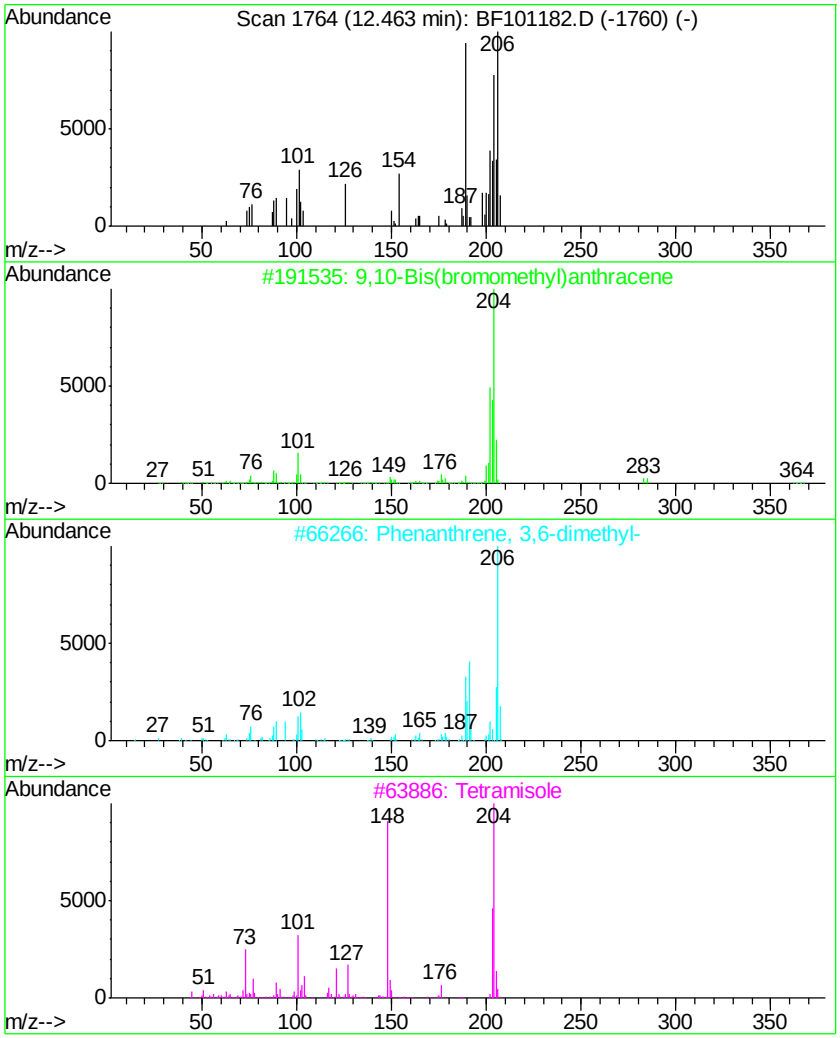
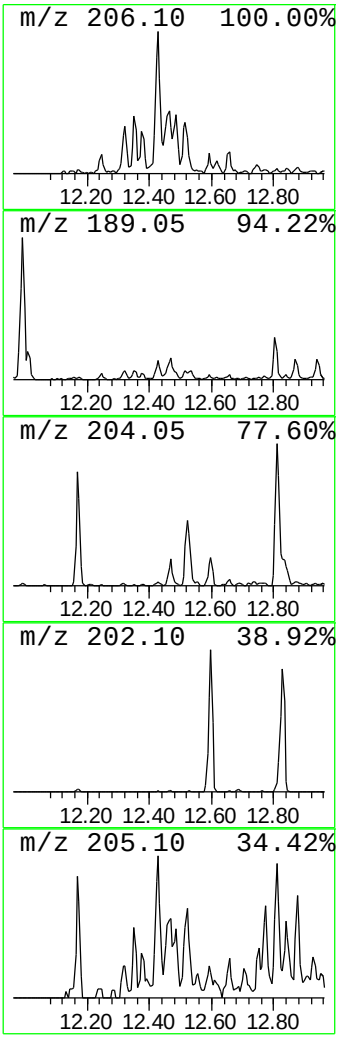
Peak Number 12 unknown12.46 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	6.16 ng	85582	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	25
3	Tetramisole	204	C11H12N2S	005036-02-2	22
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	18
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	18





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TIC Integration Parameters: LSCINT.P

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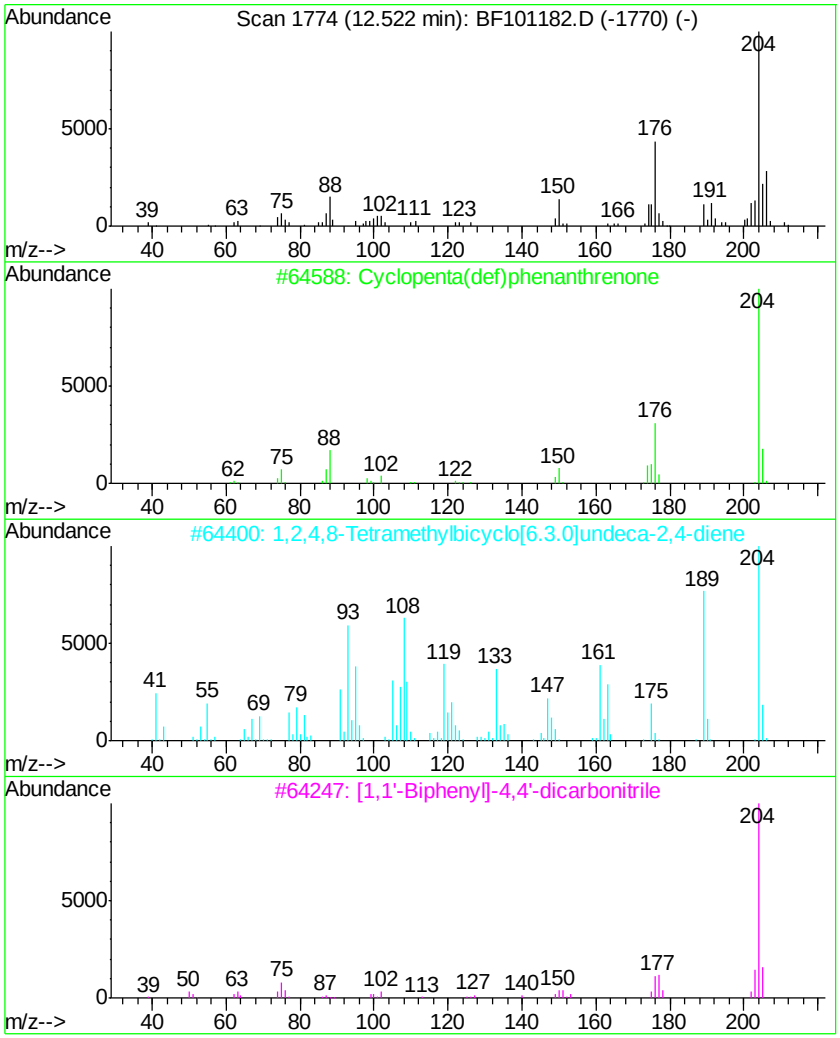
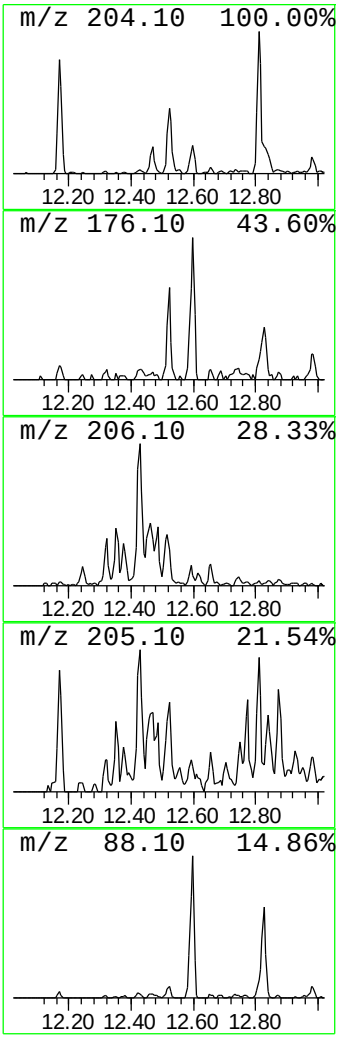
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	6.55 ng	90990	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	43
5	Dihydropyranno(3,2-H)homochroman	204	C13H16O2	057052-82-1	43





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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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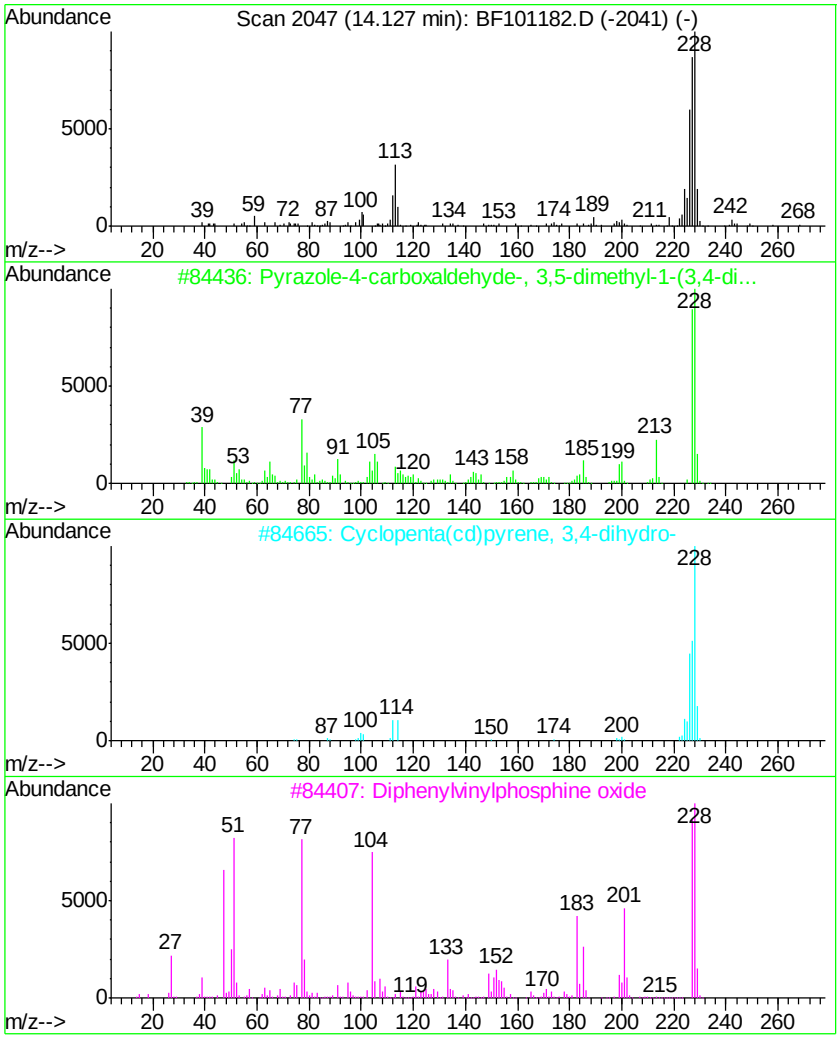
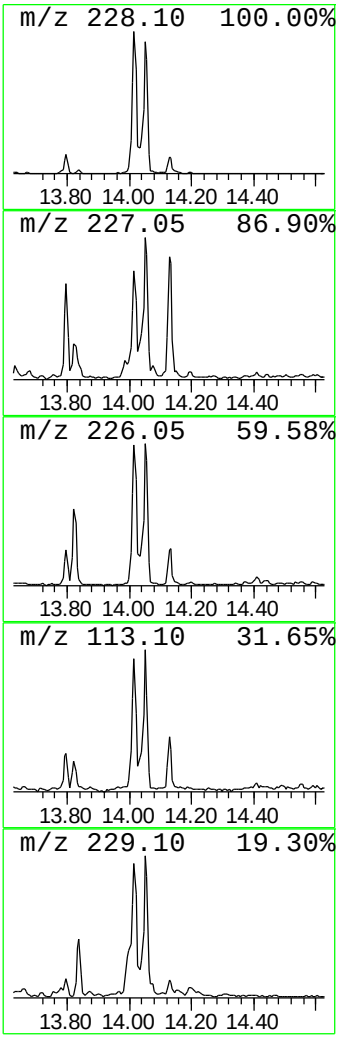
Peak Number 14 Pyrazole-4-carboxaldehyde-,... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.13	4.34 ng	245215	Chrysene-d12	14.03

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	49
3	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	49
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47
5	Triphenylene	228	C18H12	000217-59-4	45





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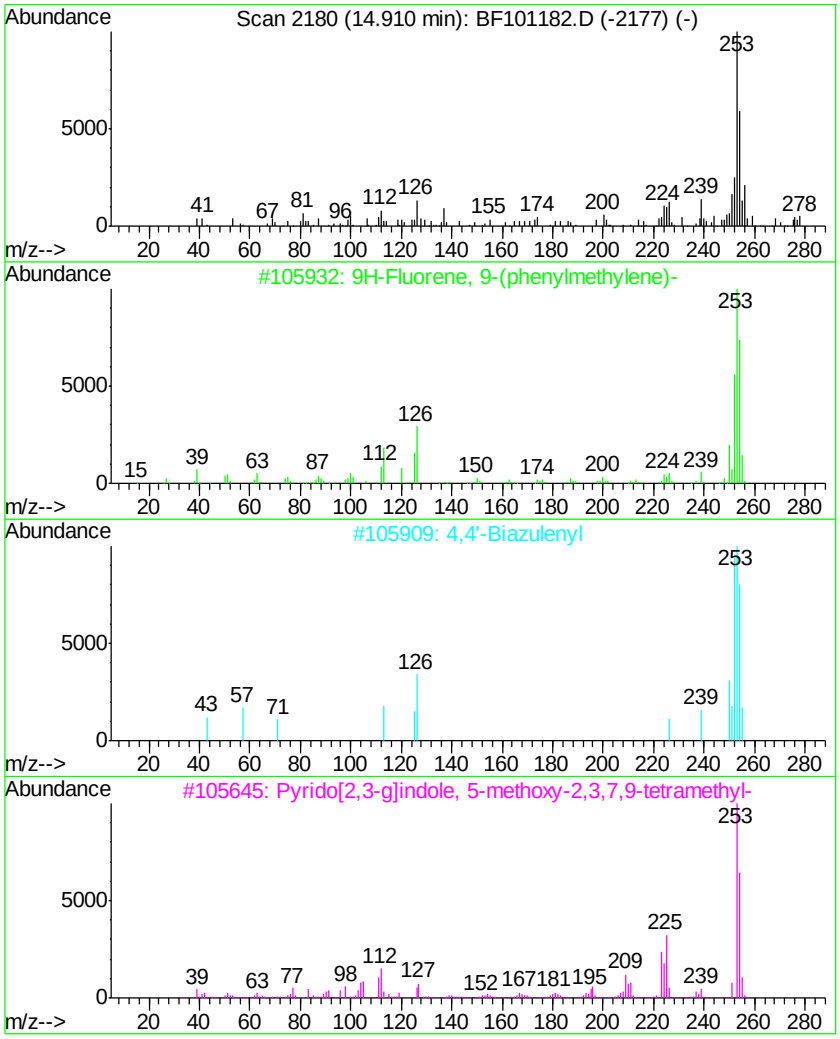
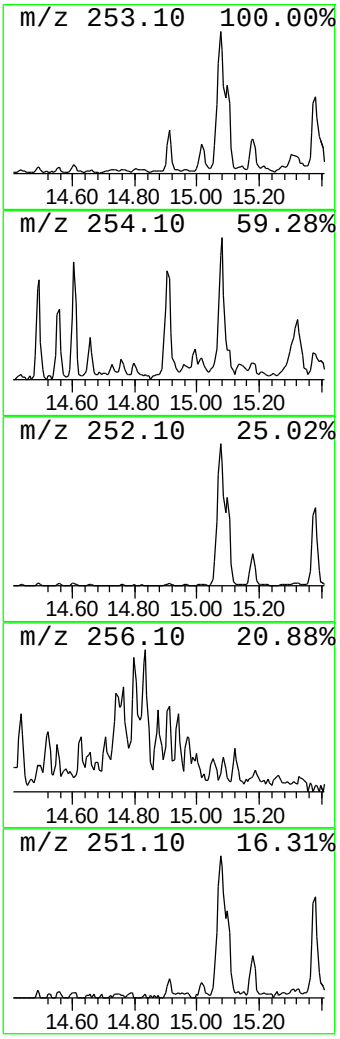
Peak Number 15 9H-Fluorene, 9-(phenylmethy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.91	7.02 ng	87953	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	58
2	4,4'-Biazulenyl	254	C20H14	094053-54-0	52
3	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	52
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	50
5	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	49





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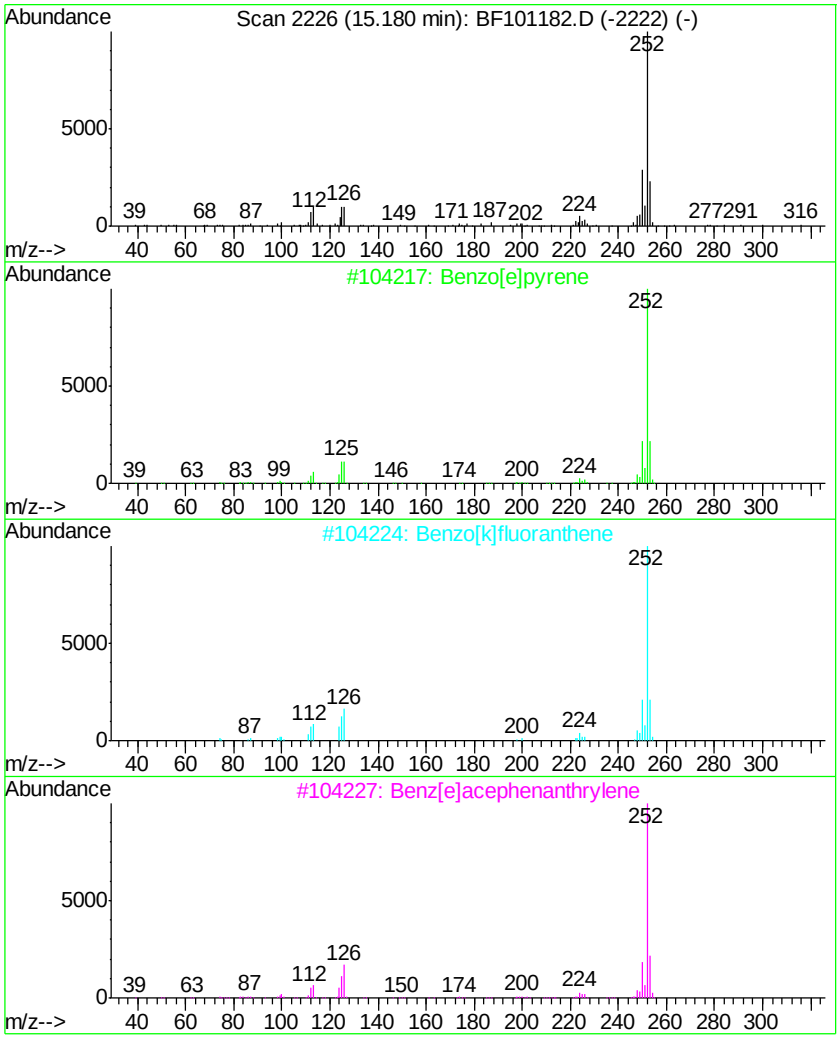
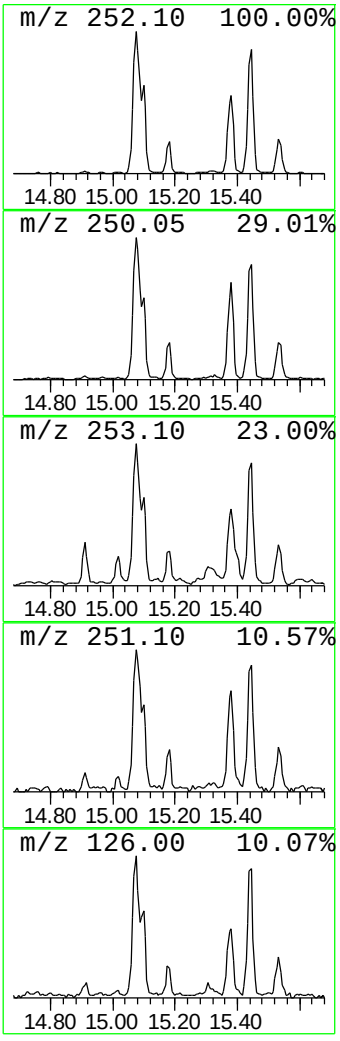
Peak Number 16 Benzo[e]pyrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	8.49 ng	106269	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
4	Benzo[a]pyrene	252	C20H12	000050-32-8	87
5	Perylene	252	C20H12	000198-55-0	76





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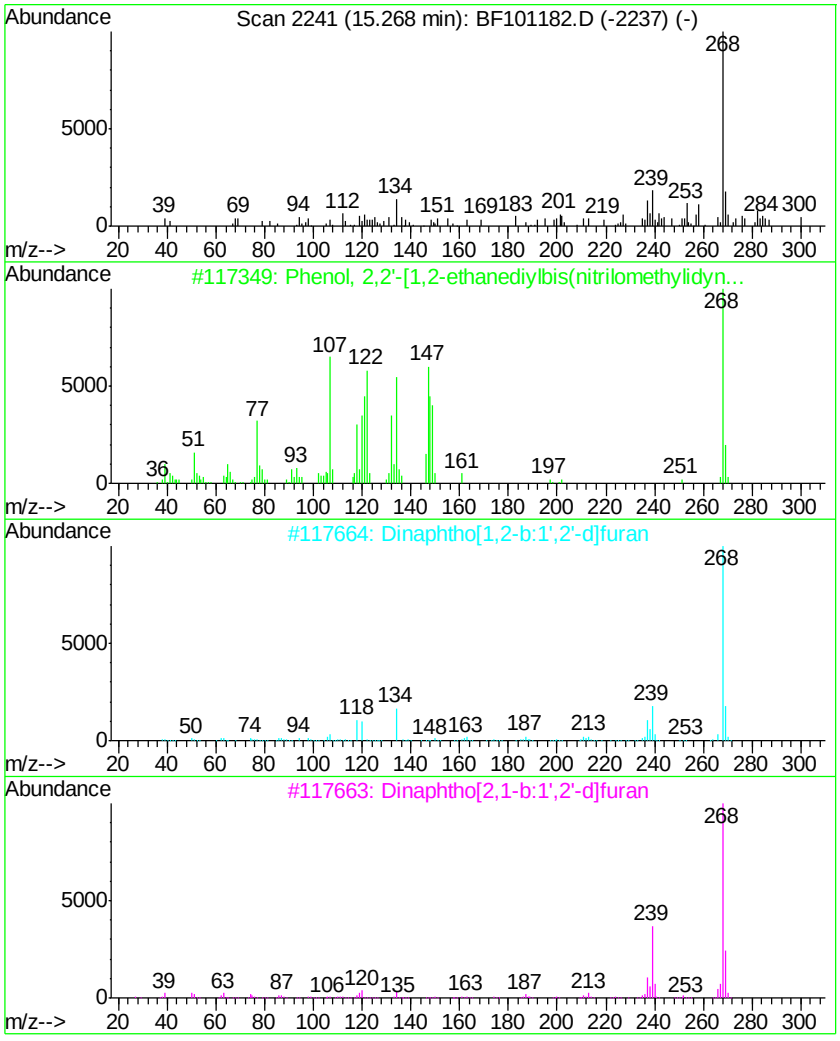
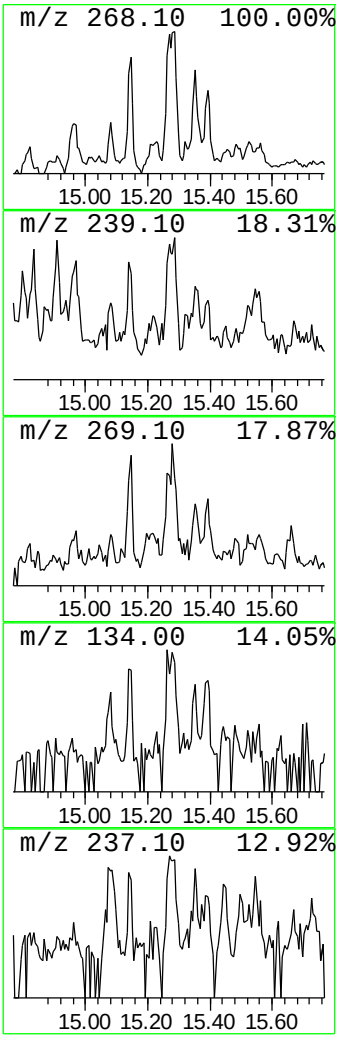
Peak Number 17 Phenol, 2,2'-[1,2-ethanediy... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	3.43 ng	42941	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2,2'-[1,2-ethanediylbis(...	268	C16H16N2O2	000094-93-9	90
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	83
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	58
4	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	52
5	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	50





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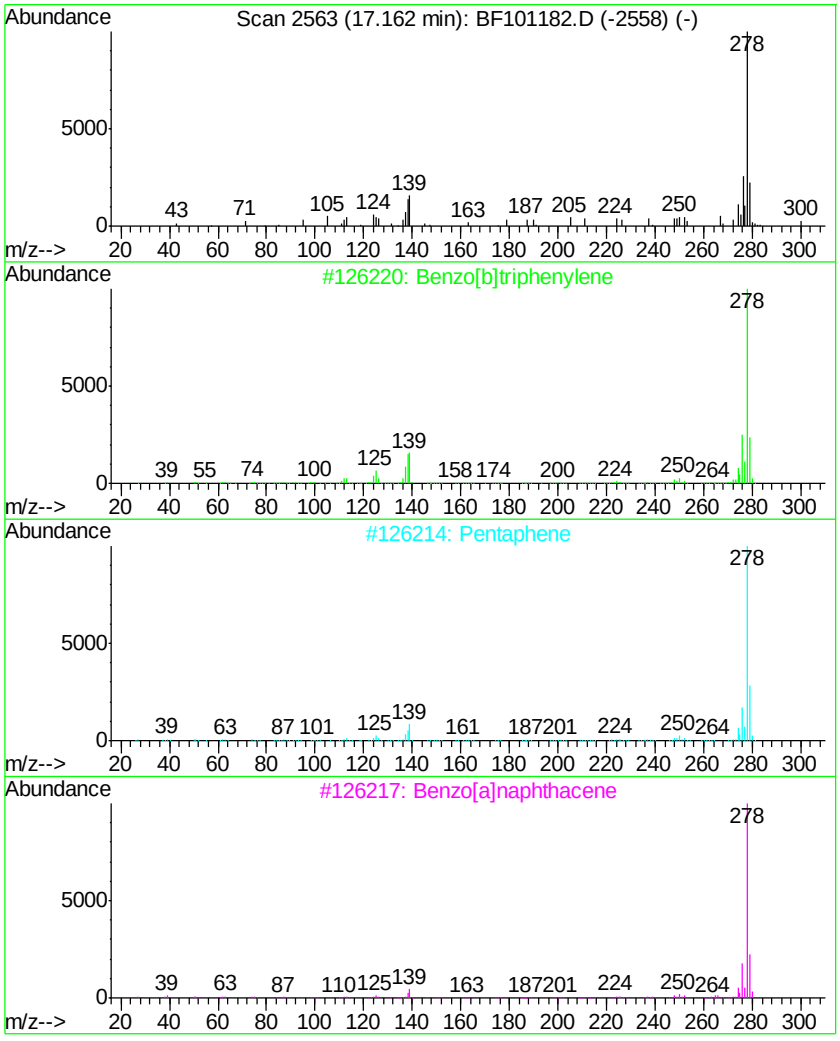
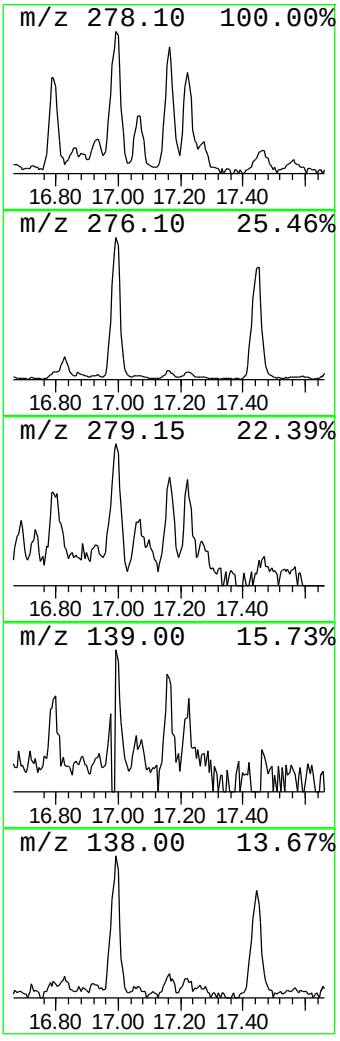
Peak Number 19 Benzo[b]triphenylene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.16	3.78 ng	47284	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
2	Pentaphene	278	C22H14	000222-93-5	94
3	Benzo[a]naphthacene	278	C22H14	000226-88-0	94
4	Benzo[b]chrysene	278	C22H14	000214-17-5	93
5	Picene	278	C22H14	000213-46-7	93





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Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

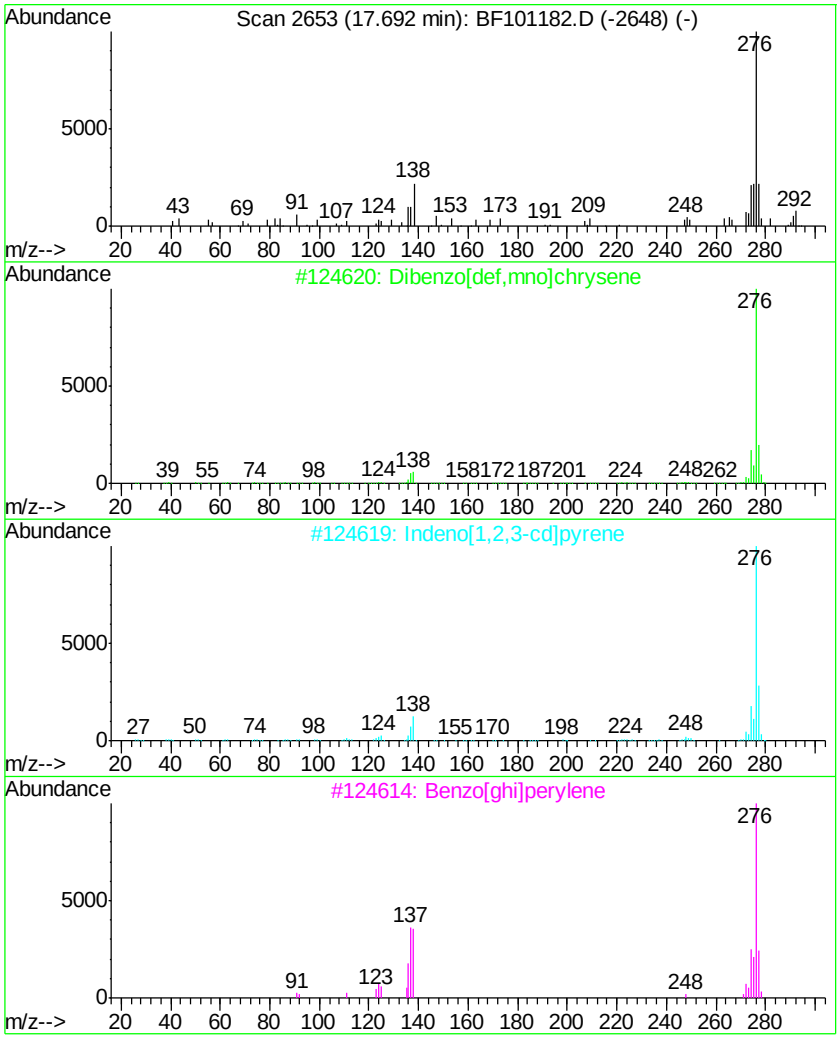
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

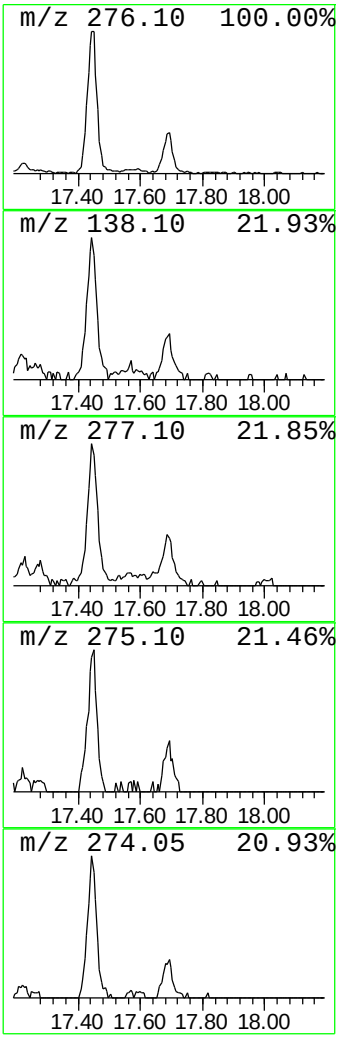
****

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.69	5.72 ng	71646	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	76
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	70
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	59
4	1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	59
5	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120617\
Data File : BF101182.D
Acq On : 6 Dec 2017 21:46
Operator : SJ/JU
Sample : I6640-02 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-11(6-8)-20171129

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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	35.2	ng	446122	1	6.85	253614	20.0
Phenanthrene, 2-m...	11.87	11.6	ng	161362	4	11.37	277782	20.0
Phenanthrene, 1-m...	11.90	12.1	ng	168179	4	11.37	277782	20.0
4H-Cyclopenta[def...	11.99	19.1	ng	265128	4	11.37	277782	20.0
Anthracene, 9-met...	12.01	5.8	ng	79991	4	11.37	277782	20.0
Tricyclo[8.2.2.2(...	12.17	6.7	ng	92544	4	11.37	277782	20.0
9,10-Anthracenedione	12.20	4.9	ng	68556	4	11.37	277782	20.0
Anthracene, 2-ethyl-	12.32	3.9	ng	54701	4	11.37	277782	20.0
Phenanthrene, 2,3...	12.43	8.0	ng	111352	4	11.37	277782	20.0
unknown12.46	12.46	6.2	ng	85582	4	11.37	277782	20.0
Cyclopenta(def)ph...	12.52	6.5	ng	90990	4	11.37	277782	20.0
Pyrazole-4-carbox...	14.13	4.3	ng	245215	5	14.03	1130910	20.0
9H-Fluorene, 9-(p...	14.91	7.0	ng	87953	6	15.50	250467	20.0
Benzo[e]pyrene	15.18	8.5	ng	106269	6	15.50	250467	20.0
Phenol, 2,2'-[1,2...	15.27	3.4	ng	42941	6	15.50	250467	20.0
Benzo[b]triphenylene	17.16	3.8	ng	47284	6	15.50	250467	20.0
Dibenzo[def,mno]c...	17.69	5.7	ng	71646	6	15.50	250467	20.0