LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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-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	5.057	502	505	512	rBB2	6200	7686	1.80%	0.143%
2	5.457	570	573	582	rBV	127297	128221	30.01%	2.389%
3	6.475	743	746	754	rBV	135683	136533	31.96%	2.544%
4	6.616	766	770	777	rBB	167809	146512	34.30%	2.730%
5	6.845	805	809	813	rBV	344497	269344	63.05%	5.019%
6	6.998	832	835	841	rBB	135752	114687	26.85%	2.137%
7	7.410	901	905	913	rBB	83338	81717	19.13%	1.523%
8	8.128	1024	1027	1036	rBV	414521	346581	81.13%	6.458%
9	9.198	1206	1209	1218	rBV	171090	159134	37.25%	2.965%
10	9.598	1274	1277	1284	rBB	17236	14802	3.46%	0.276%
11	9.804	1308	1312	1322	rBV3	10691	13275	3.11%	0.247%
12	9.886	1322	1326	1341	rVV	390034	367403	86.00%	6.846%
13	10.675	1457	1460	1466	rBV	88623	76157	17.83%	1.419%
14	10.775	1475	1477	1479	rBV	9490	8608	2.01%	0.160%
15	11.104	1529	1533	1536	rBV	10783	11476	2.69%	0.214%
16	11.128	1536	1537	1543	rVV2	8820	9982	2.34%	0.186%
17	11.222	1550	1553	1556	rVV2	18370	18718	4.38%	0.349%
18	11.375	1575	1579	1581	rBV	416745	351582	82.30%	6.551%
19	11.398	1581	1583	1586	rVV	73972	58644	13.73%	1.093%
20	11.451	1588	1592	1594	rVV	24194	21593	5.05%	0.402%
21	11.475	1594	1596	1603	rVB2	6033	9497	2.22%	0.177%
22	11.622	1614	1621	1623	rBV4	10280	17698	4.14%	0.330%
23	11.651	1623	1626	1630	rVV2	14109	15844	3.71%	0.295%
24	11.875	1661	1664	1666	rBV	23094	19941	4.67%	0.372%
25	11.904	1666	1669	1672	rVB	39927	30796	7.21%	0.574%
26	11.951	1672	1677	1680	rBV	24840	21097	4.94%	0.393%
27	11.986	1680	1683	1686	rVV2	38933	48555	11.37%	0.905%
28	12.010	1686	1687	1692	rVB	23694	14632	3.43%	0.273%
29	12.057	1692	1695	1698	rBV	12131	10470	2.45%	0.195%
30	12.169	1710	1714	1717	rBV	15886	13553	3.17%	0.253%
31	12.316	1735	1739	1742	rBV2	8469	9963	2.33%	0.186%
32	12.351	1742	1745	1747	rVV	10562	8360	1.96%	0.156%
33	12.422	1752	1757	1759	rBV	36122	34897	8.17%	0.650%
34	12.463	1759	1764	1766	rVV2	22830	35717	8.36%	0.666%

LSC Area Percent Report

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Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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

35	12.516	1769	1773	1778	rVB3	20431	28581	6.69%	0.533%
36	12.586	1782	1785	1789	rBV	175597	142831	33.43%	2.661%
37	12.651	1794	1796	1799	rVB3	11026	8779	2.06%	0.164%
38	12.686	1799	1802	1804	rBV	15262	14272	3.34%	0.266%
39	12.816	1818	1824	1830	rBV2	160420	176082	41.22%	3.281%
40	12.869	1830	1833	1837	rVB2	18141	21806	5.10%	0.406%
41	12.951	1837	1847	1850	rBV2	153561	149100	34.90%	2.778%
42	12.974	1850	1851	1855	rVB2	14331	12697	2.97%	0.237%
43	13.033	1857	1861	1868	rBV4	25930	45971	10.76%	0.857%
44	13.121	1872	1876	1878	rBV3	23349	32086	7.51%	0.598%
45	13.145	1878	1880	1883	rVB	40119	32795	7.68%	0.611%
46	13.186	1883	1887	1889	rBV4	6938	9815	2.30%	0.183%
47	13.210	1889	1891	1894	rVV	23338	20908	4.89%	0.390%
48	13.251	1894	1898	1901	rVV2	39177	51585	12.08%	0.961%
49	13.304	1905	1907	1910	rVV2	9093	9910	2.32%	0.185%
50	13.345	1910	1914	1916	rVV	22810	22231	5.20%	0.414%
51	13.374	1916	1919	1922	rVV2	24592	25217	5.90%	0.470%
52	13.521	1941	1944	1946	rBV3	7387	9514	2.23%	0.177%
53	13.545	1946	1948	1950	rVV	8789	8895	2.08%	0.166%
54	13.569	1950	1952	1955	rVB	9049	8328	1.95%	0.155%
55	13.627	1959	1962	1964	rBV2	7594	7694	1.80%	0.143%
56	13.657	1964	1967	1971	rVV	33710	30218	7.07%	0.563%
57	13.716	1974	1977	1979	rVV3	8415	9208	2.16%	0.172%
58	13.763	1979	1985	1988	rVV3	18109	25314	5.93%	0.472%
59	13.792	1988	1990	1993	rVV	25611	23314	5.46%	0.434%
60	13.816	1993	1994	1996	rVV	13238	12237	2.86%	0.228%
61	13.833	1996	1997	2000	rVV4	19489	20134	4.71%	0.375%
62	13.869	2000	2003	2006	rVB	23418	22871	5.35%	0.426%
63	14.016	2020	2028	2031	rBV2	360176	427198	100.00%	7.960%
64	14.045	2031	2033	2035	rVB	82245	65144	15.25%	1.214%
65	14.121	2044	2046	2048	rBV	12488	9080	2.13%	0.169%
66	14.169	2048	2054	2060	rVV3	30001	46497	10.88%	0.866%
67	14.245	2063	2067	2070	rVV3	11566	15492	3.63%	0.289%
68	14.363	2084	2087	2090	rBV3	11620	11451	2.68%	0.213%
69	14.404	2090	2094	2097	rVV	53552	49142	11.50%	0.916%
70	14.439	2097	2100	2103	rVB	21141	19817	4.64%	0.369%
71	14.480	2103	2107	2109	rBV5	10541	14431	3.38%	0.269%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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

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Peak separation: 5

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

72	14.498	2109	2110	2112	rVV	13030	9202	2.15%	0.171%
73	14.527	2112	2115	2117	rVV2	23183	21800	5.10%	0.406%
74	14.551	2117	2119	2123	rVV2	13368	12348	2.89%	0.230%
75	14.598	2125	2127	2130	rVB3	11853	9238	2.16%	0.172%
76	14.721	2145	2148	2150	rBV3	12144	12680	2.97%	0.236%
77	14.792	2158	2160	2164	rBV3	7882	10643	2.49%	0.198%
78	14.827	2164	2166	2169	rVB2	8425	8272	1.94%	0.154%
79	14.898	2175	2178	2181	rVB2	13049	14584	3.41%	0.272%
80	14.957	2186	2188	2193	rVV4	7210	7723	1.81%	0.144%
81	15.063	2200	2206	2213	rBV	98213	189757	44.42%	3.536%
82	15.168	2221	2224	2227	rBV	33574	34488	8.07%	0.643%
83	15.263	2236	2240	2241	rBV4	9414	13511	3.16%	0.252%
84	15.368	2253	2258	2264	rVB	52841	76701	17.95%	1.429%
85	15.427	2264	2268	2274	rBV	90610	114438	26.79%	2.132%
86	15.492	2274	2279	2283	rBV	223884	277523	64.96%	5.171%
87	15.592	2294	2296	2300	rVB4	7771	7527	1.76%	0.140%
88	15.668	2303	2309	2311	rBV5	12157	22751	5.33%	0.424%
89	15.704	2312	2315	2322	rVB4	11656	22020	5.15%	0.410%
90	15.810	2329	2333	2337	rVB5	7534	10525	2.46%	0.196%
91	15.845	2337	2339	2346	rVB6	6572	10878	2.55%	0.203%
92	15.921	2348	2352	2353	rBV4	8453	10837	2.54%	0.202%
93	15.980	2358	2362	2364	rBV3	6186	8311	1.95%	0.155%
94	16.057	2372	2375	2379	rBV3	6673	9332	2.18%	0.174%
95	16.774	2491	2497	2500	rBV5	6462	12602	2.95%	0.235%
96	16.974	2524	2531	2536	rBV2	34917	67408	15.78%	1.256%
97	17.145	2555	2560	2564	rBV3	11527	20838	4.88%	0.388%
98	17.204	2566	2570	2574	rVV6	8135	13266	3.11%	0.247%
99	17.421	2600	2607	2614	rBV2	20542	42478	9.94%	0.792%
100	17.668	2641	2649	2654	rBV3	8775	20769	4.86%	0.387%

Sum of corrected areas: 5366770

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
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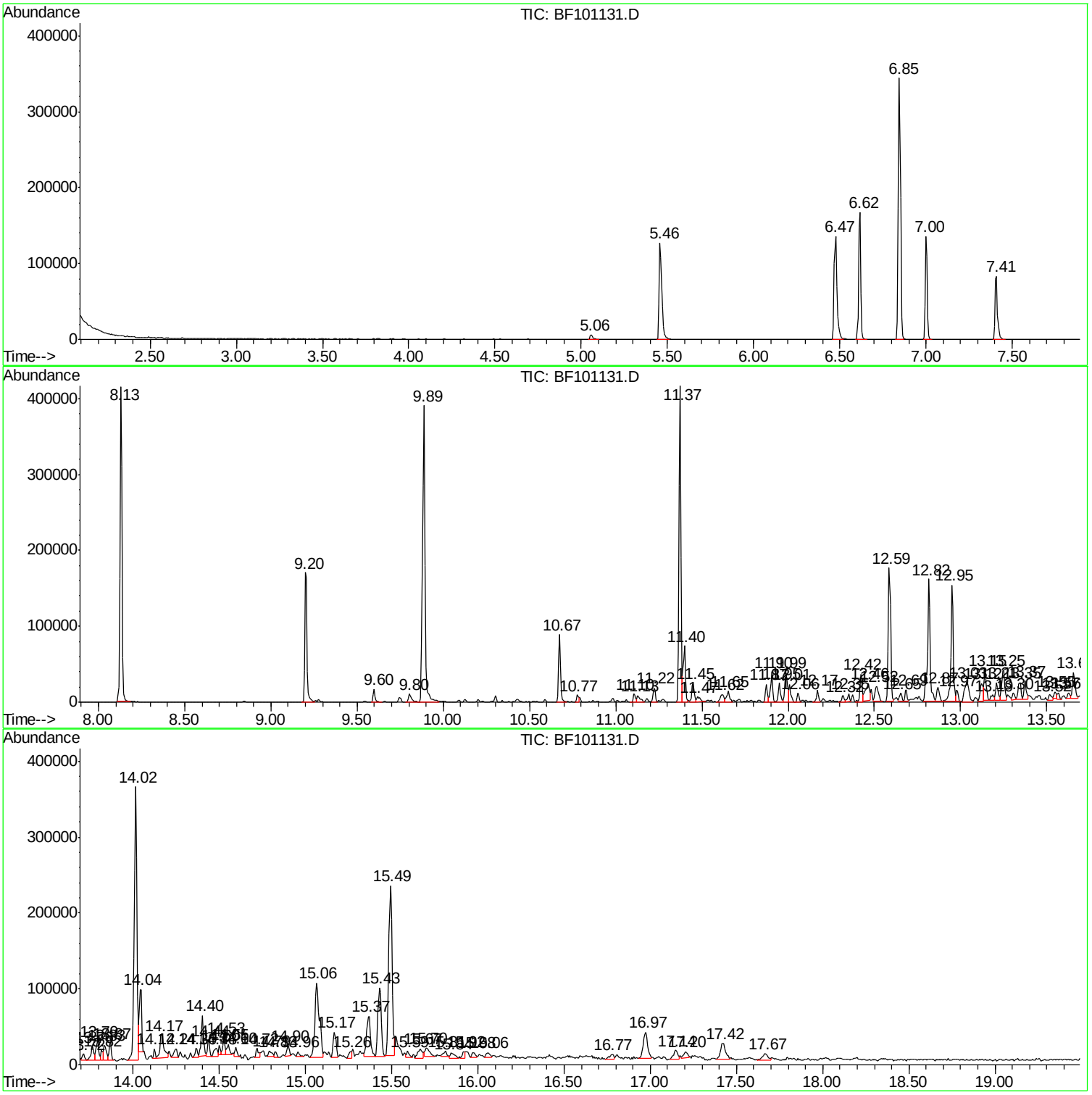
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-109-6(0-5)

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\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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

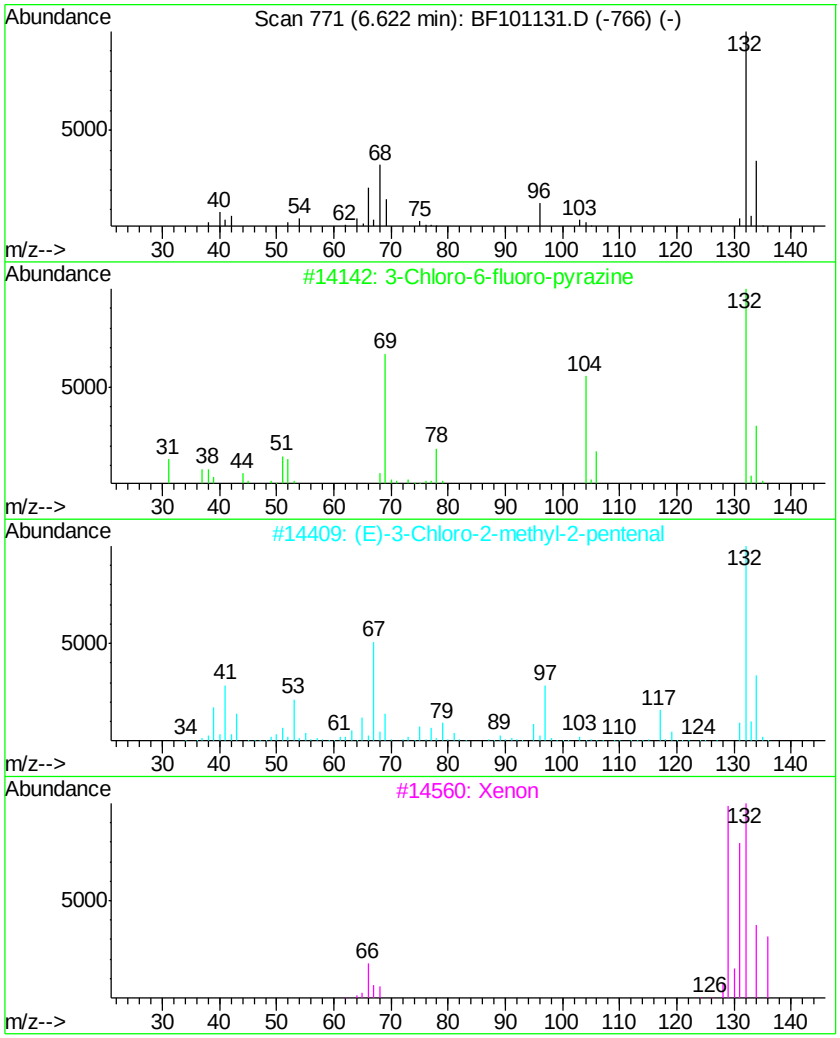
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

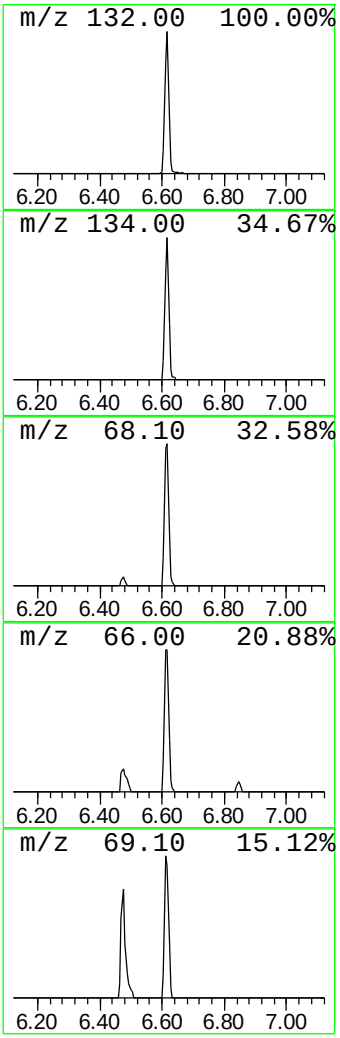
****

Peak Number 1 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	10.88 ng	146512	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	17
3	Xenon	132	Xe	007440-63-3	9
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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

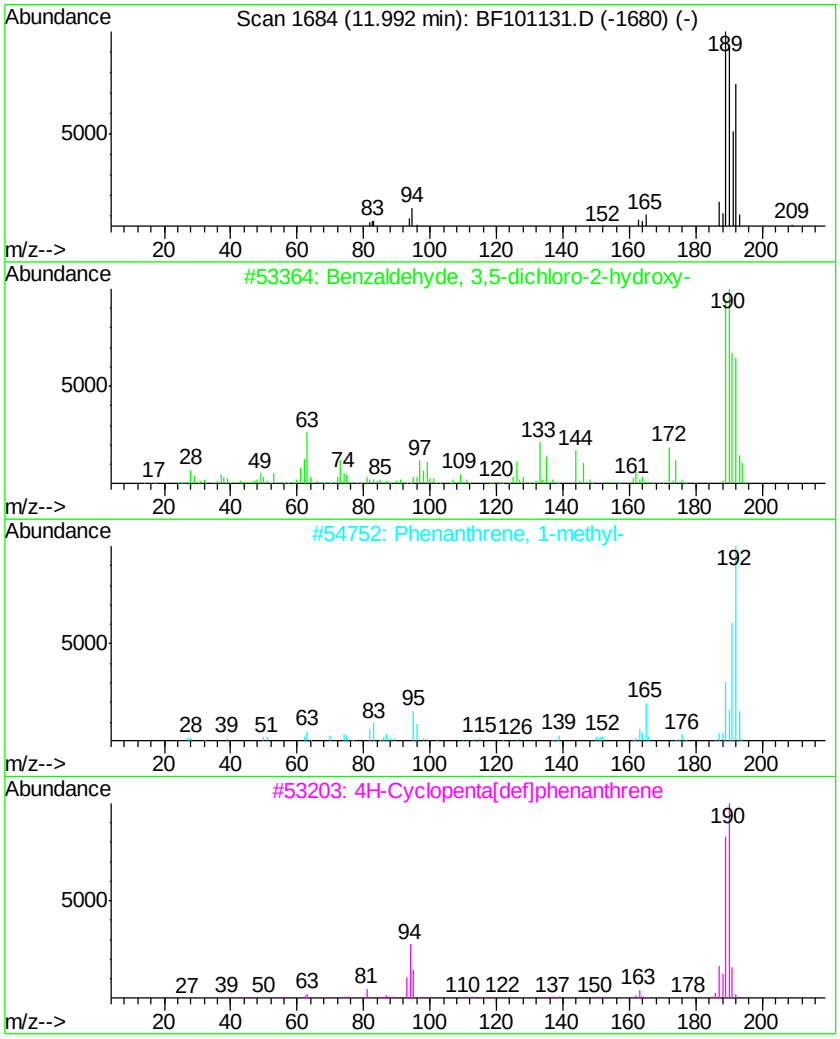
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

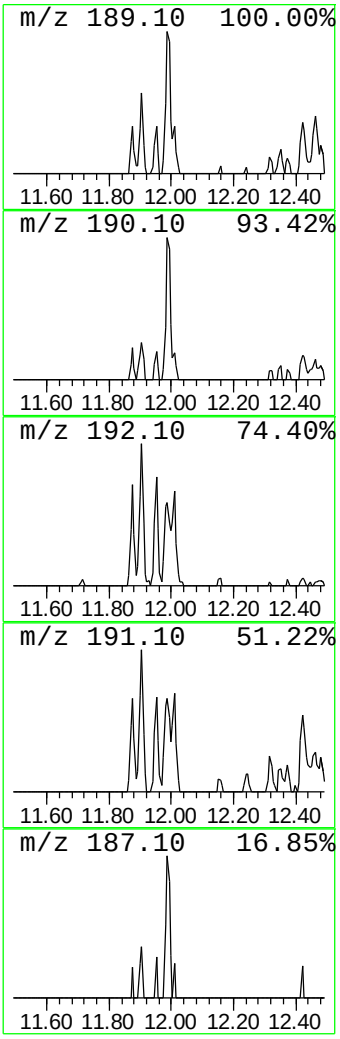
****

Peak Number 3 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	2.76 ng	48555	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	52
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	50
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	45
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	41





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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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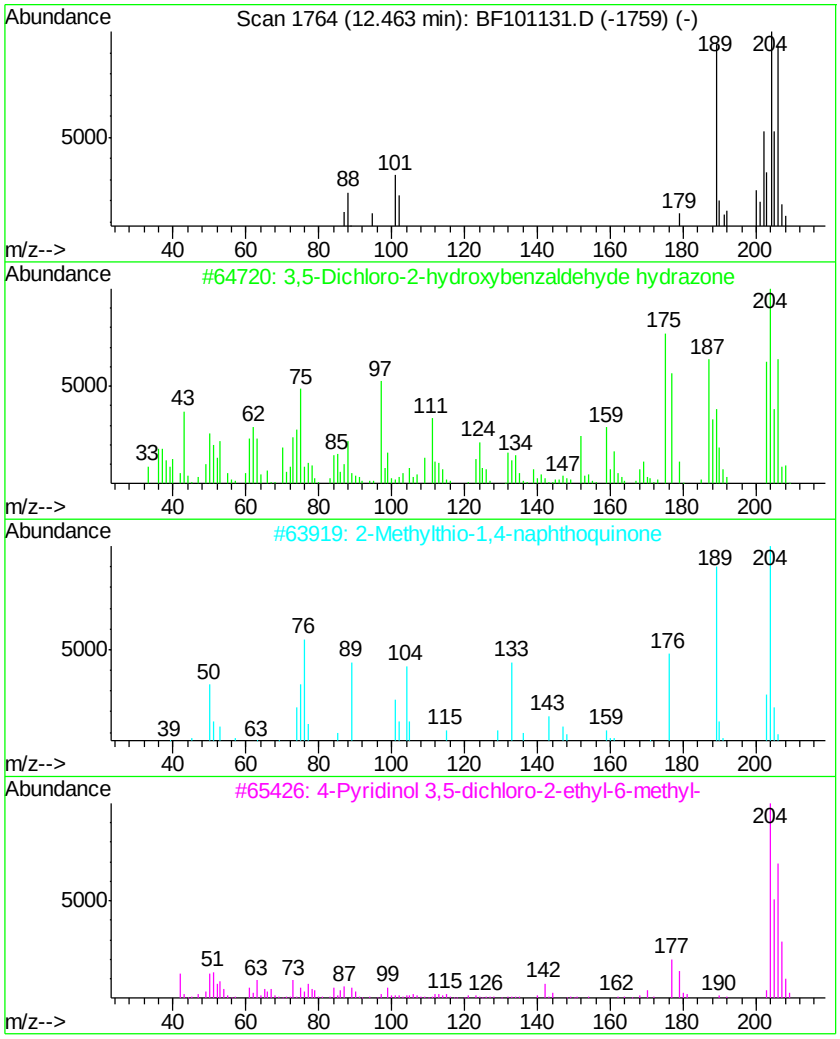
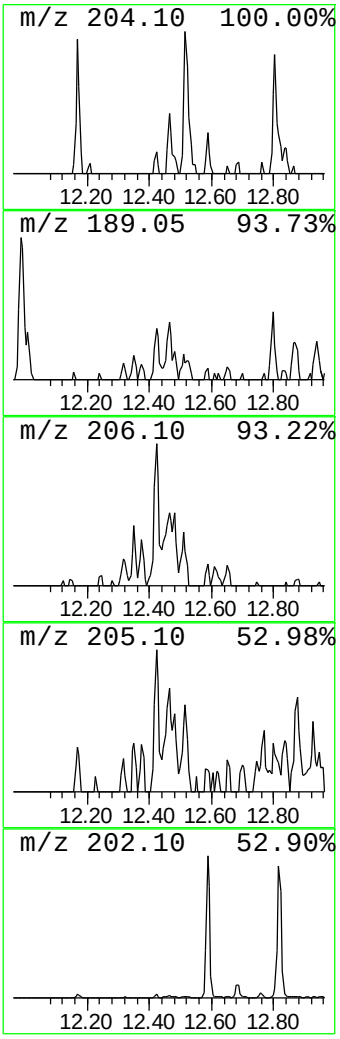
Peak Number 4 unknown12.46 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	2.03 ng	35717	Phenanthrene-d10	11.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dichloro-2-hydroxybenzaldehy...	204	C7H6Cl2N2O	043002-22-8	47
2	2-Methylthio-1,4-naphthoquinone	204	C11H8O2S	026037-60-5	43
3	4-Pyridinol 3,5-dichloro-2-ethyl...	205	C8H9Cl2NO	1000253-55-0	43
4	4-Bromo-2-fluoroanisole	204	C7H6BrFO	002357-52-0	38
5	2,1,3-Benzoxazole, 5,6-dichloro-...	204	C6H2Cl2N2O2	004701-01-3	30





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ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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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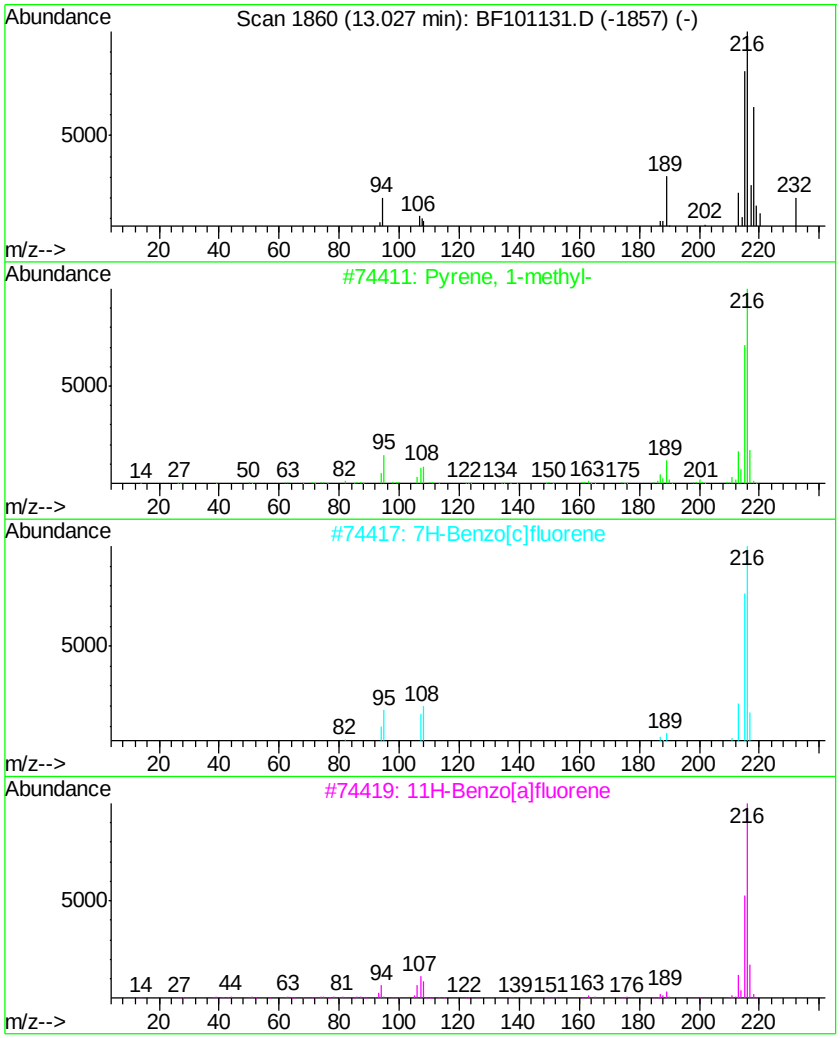
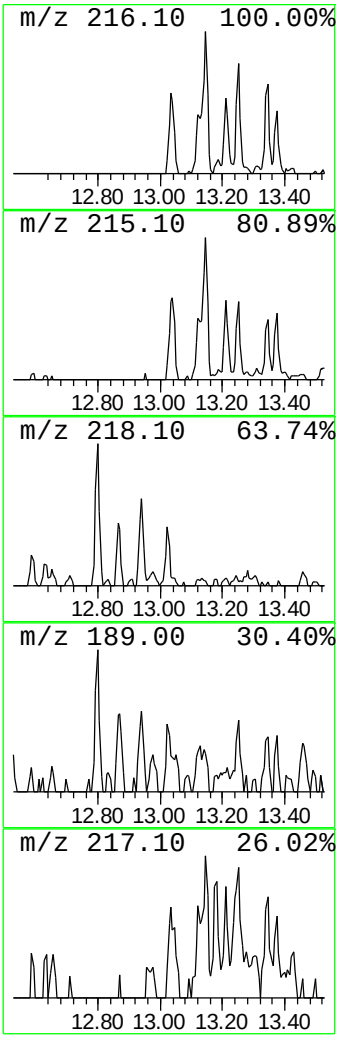
Peak Number 5 Pyrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	2.15 ng	45971	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
2	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	78
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	74
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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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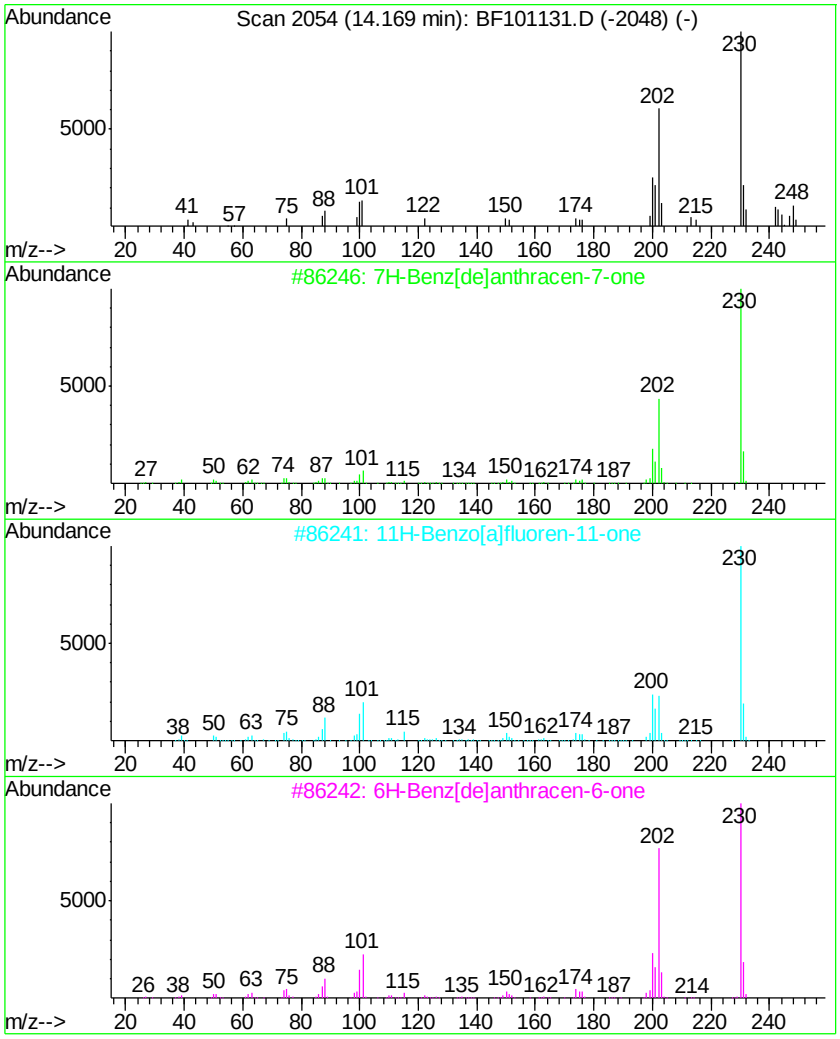
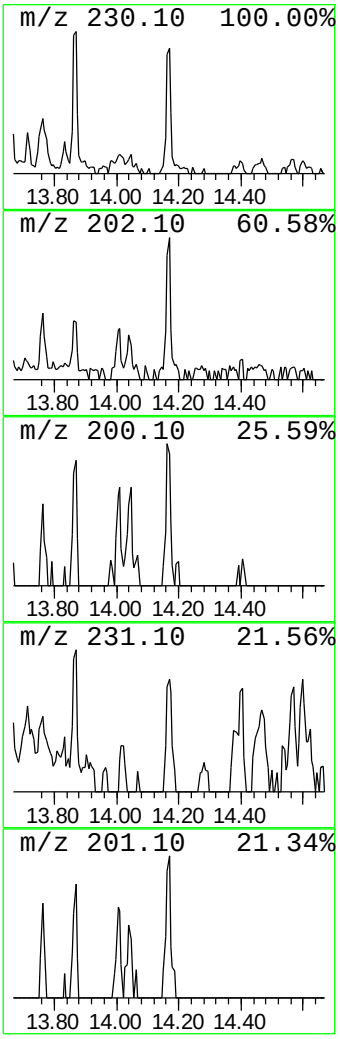
Peak Number 7 7H-Benz[de]anthracen-7-one Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.17	2.18 ng	46497	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	95
2	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	89
3	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	76
4	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	58
5	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	47





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Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

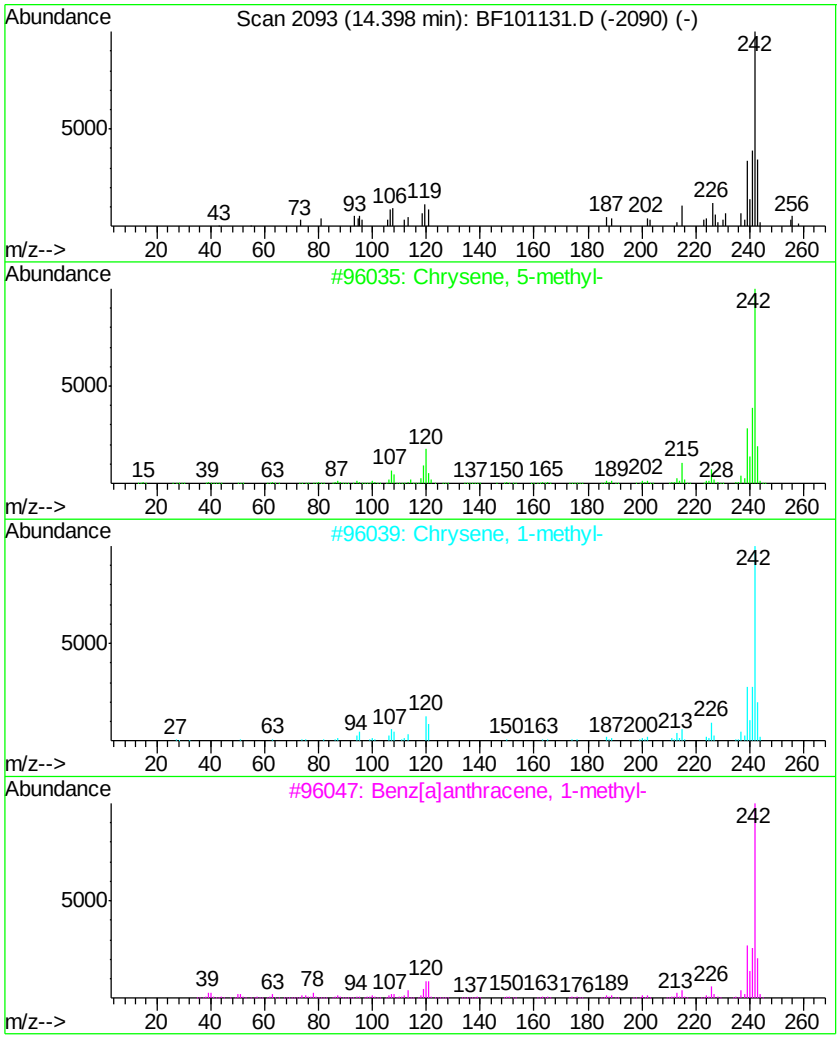
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

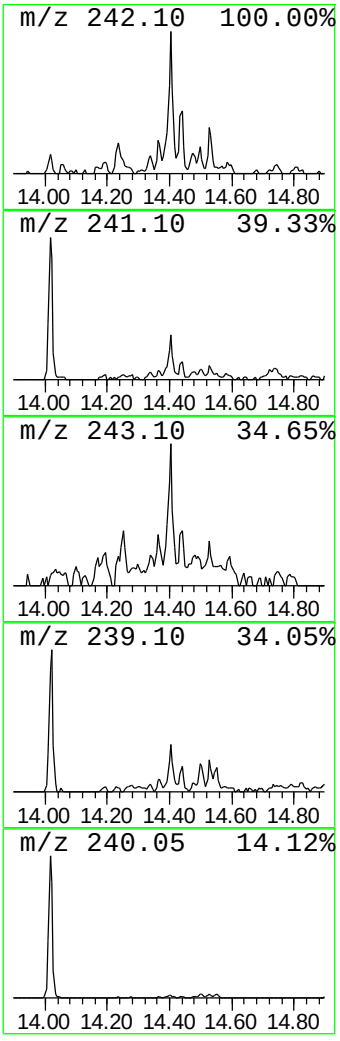
****

Peak Number 8 Chrysene, 5-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.40	2.30 ng	49142	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 5-methyl-	242	C19H14	003697-24-3	89
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	89
3	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	89
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	89
5	Chrysene, 6-methyl-	242	C19H14	001705-85-7	83





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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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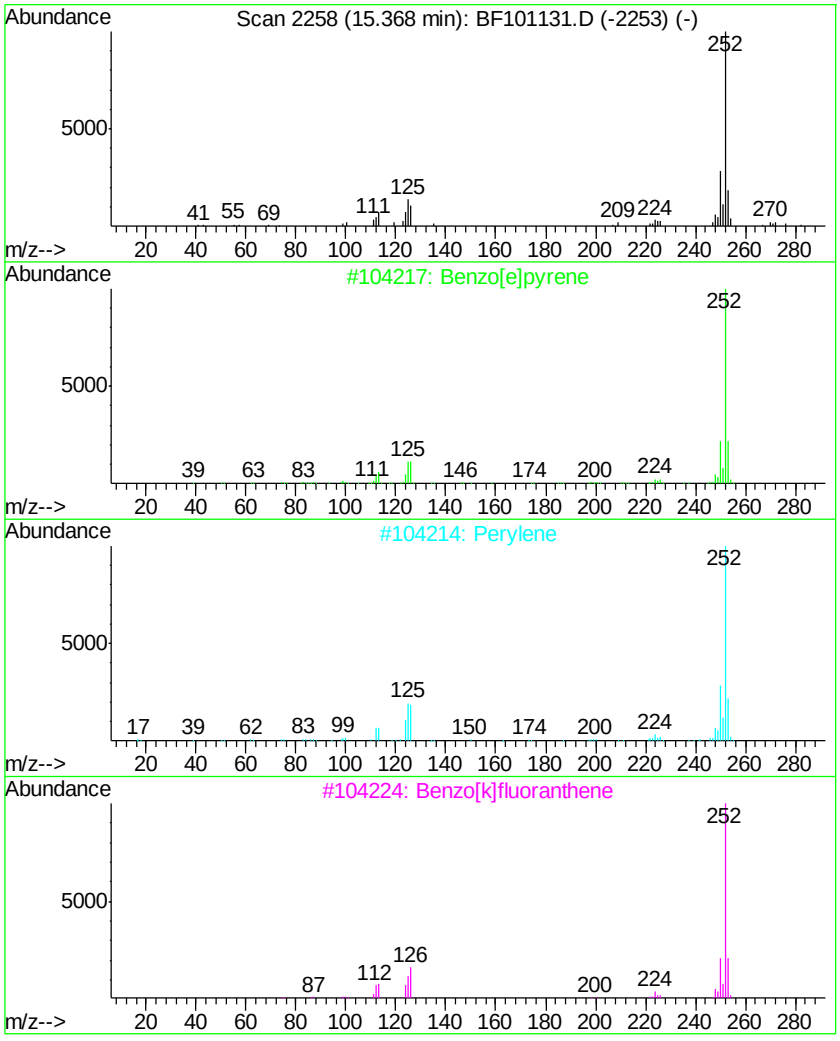
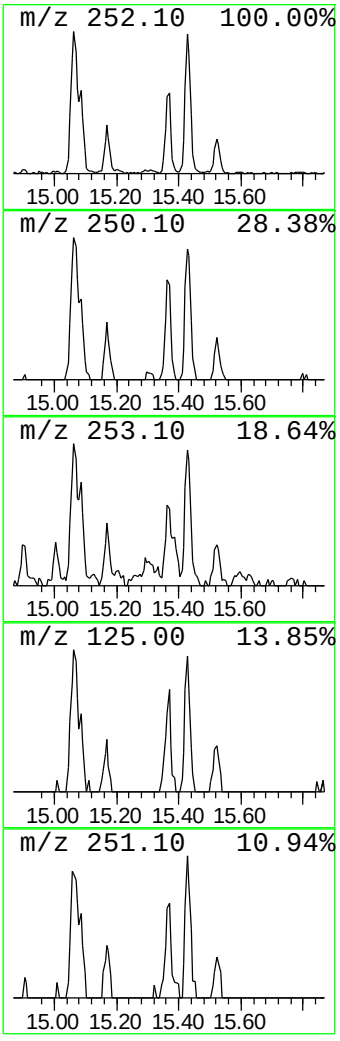
Peak Number 10 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	5.53 ng	76701	Perylene-d12	15.49

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	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120517\
Data File : BF101131.D
Acq On : 5 Dec 2017 18:21
Operator : SJ/JU
Sample : I6709-08 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ENV-109-6(0-5)

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	10.9	ng	146512	1	6.85	269344	20.0
Benzaldehyde, 3,5...	11.99	2.8	ng	48555	4	11.37	351582	20.0
unknown12.46	12.46	2.0	ng	35717	4	11.37	351582	20.0
Pyrene, 1-methyl-	13.03	2.1	ng	45971	5	14.02	427198	20.0
7H-Benz[de]anthra...	14.17	2.2	ng	46497	5	14.02	427198	20.0
Chrysene, 5-methyl-	14.40	2.3	ng	49142	5	14.02	427198	20.0
Benzo[e]pyrene	15.37	5.5	ng	76701	6	15.49	277523	20.0