LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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	5.028	497	500	506	rBV	7395	9612	1.78%	0.147%
2	5.440	567	570	588	rBV	150516	175437	32.50%	2.689%
3	6.457	740	743	753	rBV	159844	186604	34.56%	2.860%
4	6.592	762	766	773	rBV	220647	192347	35.63%	2.948%
5	6.822	802	805	816	rBB	278102	228812	42.38%	3.507%
6	6.975	828	831	838	rBV	143747	123618	22.90%	1.894%
7	7.386	898	901	912	rBV	102012	98508	18.25%	1.510%
8	8.104	1019	1023	1040	rBV	340066	291105	53.92%	4.461%
9	9.175	1202	1205	1216	rBB	180615	147070	27.24%	2.254%
10	9.575	1270	1273	1277	rBB	17011	14772	2.74%	0.226%
11	9.863	1318	1322	1325	rBV	320284	280325	51.92%	4.296%
12	9.892	1325	1327	1331	rVB	31784	24855	4.60%	0.381%
13	10.657	1454	1457	1463	rBB	91663	84452	15.64%	1.294%
14	10.763	1471	1475	1478	rBB2	5870	7531	1.39%	0.115%
15	11.351	1572	1575	1578	rBV	308691	279921	51.85%	4.290%
16	11.374	1578	1579	1583	rVV	96962	71527	13.25%	1.096%
17	11.427	1585	1588	1593	rVB	23998	23821	4.41%	0.365%
18	11.592	1612	1616	1619	rBB	8483	8820	1.63%	0.135%
19	11.857	1658	1661	1663	rBB	8663	7413	1.37%	0.114%
20	11.886	1663	1666	1670	rBB	14874	11786	2.18%	0.181%
21	11.933	1671	1674	1677	rBV	9179	7414	1.37%	0.114%
22	11.969	1677	1680	1683	rVV	18299	20895	3.87%	0.320%
23	12.404	1751	1754	1756	rBV	7847	7598	1.41%	0.116%
24	12.574	1779	1783	1786	rBV	182546	165531	30.66%	2.537%
25	12.727	1804	1809	1811	rBV2	6777	7391	1.37%	0.113%
26	12.786	1816	1819	1820	rBV2	72439	73087	13.54%	1.120%
27	12.804	1820	1822	1828	rVV	209768	180102	33.36%	2.760%
28	12.851	1828	1830	1836	rVB4	12657	14875	2.76%	0.228%
29	12.933	1836	1844	1847	rBV	147527	133633	24.75%	2.048%
30	12.969	1847	1850	1854	rVB	14262	14284	2.65%	0.219%
31	13.021	1854	1859	1862	rBV3	11839	19313	3.58%	0.296%
32	13.127	1869	1877	1881	rBV	30314	44455	8.23%	0.681%
33	13.198	1885	1889	1891	rVB2	31497	27230	5.04%	0.417%
34	13.233	1891	1895	1897	rBV2	24117	25870	4.79%	0.396%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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	13.263	1897	1900	1903	rVV3	10913	15401	2.85%	0.236%
36	13.327	1908	1911	1914	rVV	14062	12066	2.23%	0.185%
37	13.363	1914	1917	1919	rVB2	14729	12340	2.29%	0.189%
38	13.486	1935	1938	1941	rBV2	14532	12136	2.25%	0.186%
39	13.533	1941	1946	1947	rBV5	4672	5964	1.10%	0.091%
40	13.551	1947	1949	1952	rVB2	8628	9065	1.68%	0.139%
41	13.616	1957	1960	1963	rBV4	8557	10814	2.00%	0.166%
42	13.645	1963	1965	1969	rVV2	7599	6682	1.24%	0.102%
43	13.757	1978	1984	1985	rBV	20058	19918	3.69%	0.305%
44	13.780	1985	1988	1990	rVB	23728	20872	3.87%	0.320%
45	13.804	1990	1992	1994	rBV	19366	20383	3.78%	0.312%
46	13.921	2011	2012	2015	rVB3	10590	8093	1.50%	0.124%
47	14.004	2018	2026	2029	rBV2	409092	539878	100.00%	8.274%
48	14.033	2029	2031	2034	rVV	177048	147960	27.41%	2.267%
49	14.092	2038	2041	2042	rVV3	8917	9635	1.78%	0.148%
50	14.110	2042	2044	2047	rVV	84494	74753	13.85%	1.146%
51	14.157	2050	2052	2054	rVV2	14910	15424	2.86%	0.236%
52	14.204	2057	2060	2062	rVV	16578	21134	3.91%	0.324%
53	14.233	2062	2065	2068	rVB2	22514	26623	4.93%	0.408%
54	14.263	2068	2070	2074	rVB5	6598	6283	1.16%	0.096%
55	14.321	2078	2080	2083	rVV3	7901	7116	1.32%	0.109%
56	14.357	2083	2086	2088	rVV2	23308	25954	4.81%	0.398%
57	14.392	2088	2092	2095	rVV	53715	61719	11.43%	0.946%
58	14.427	2096	2098	2100	rVV	22029	23069	4.27%	0.354%
59	14.463	2102	2104	2107	rVV4	17366	23454	4.34%	0.359%
60	14.492	2107	2109	2111	rVV	27673	27144	5.03%	0.416%
61	14.521	2111	2114	2115	rVV2	27879	31944	5.92%	0.490%
62	14.539	2115	2117	2120	rVV	40323	42541	7.88%	0.652%
63	14.586	2120	2125	2129	rVV6	25124	54702	10.13%	0.838%
64	14.633	2132	2133	2138	rVB4	13926	15490	2.87%	0.237%
65	14.710	2144	2146	2149	rBV3	14945	19379	3.59%	0.297%
66	14.892	2174	2177	2180	rBV2	24165	24832	4.60%	0.381%
67	14.951	2184	2187	2191	rVB5	8104	10133	1.88%	0.155%
68	14.998	2193	2195	2199	rVB3	8486	7486	1.39%	0.115%
69	15.051	2199	2204	2207	rBV	209070	316875	58.69%	4.856%
70	15.162	2219	2223	2227	rVB	57361	67950	12.59%	1.041%
71	15.204	2227	2230	2234	rBV6	10671	16213	3.00%	0.248%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

72	15.245	2234	2237	2239	rVV3	19653	24427	4.52%	0.374%
73	15.298	2243	2246	2250	rVV5	27756	49208	9.11%	0.754%
74	15.357	2251	2256	2263	rVV	149382	201602	37.34%	3.090%
75	15.421	2263	2267	2272	rVV	243426	299804	55.53%	4.594%
76	15.486	2273	2278	2280	rVV	182224	231313	42.85%	3.545%
77	15.515	2280	2283	2290	rVB	71564	109356	20.26%	1.676%
78	15.645	2303	2305	2306	rBV2	7346	6144	1.14%	0.094%
79	15.698	2310	2314	2320	rVB5	18527	38875	7.20%	0.596%
80	15.962	2356	2359	2362	rBV4	9150	12063	2.23%	0.185%
81	16.045	2370	2373	2379	rBV4	17564	25907	4.80%	0.397%
82	16.456	2442	2443	2445	rBV2	6073	5750	1.07%	0.088%
83	16.498	2447	2450	2455	rBV7	9321	17269	3.20%	0.265%
84	16.704	2483	2485	2487	rBV3	7374	6982	1.29%	0.107%
85	16.762	2492	2495	2499	rVV2	18336	29204	5.41%	0.448%
86	16.809	2499	2503	2507	rVB3	12332	19933	3.69%	0.305%
87	16.898	2515	2518	2523	rBV7	8908	14873	2.75%	0.228%
88	16.968	2523	2530	2538	rVV	128648	243536	45.11%	3.732%
89	17.039	2540	2542	2547	rVB5	13457	14745	2.73%	0.226%
90	17.139	2552	2559	2563	rBV2	29069	63349	11.73%	0.971%
91	17.192	2566	2568	2576	rVB3	17803	30713	5.69%	0.471%
92	17.421	2601	2607	2615	rBV	93161	196121	36.33%	3.006%
93	17.668	2643	2649	2659	rVB2	39195	95271	17.65%	1.460%
94	18.321	2758	2760	2763	rBV4	5552	7440	1.38%	0.114%

Sum of corrected areas: 6525324

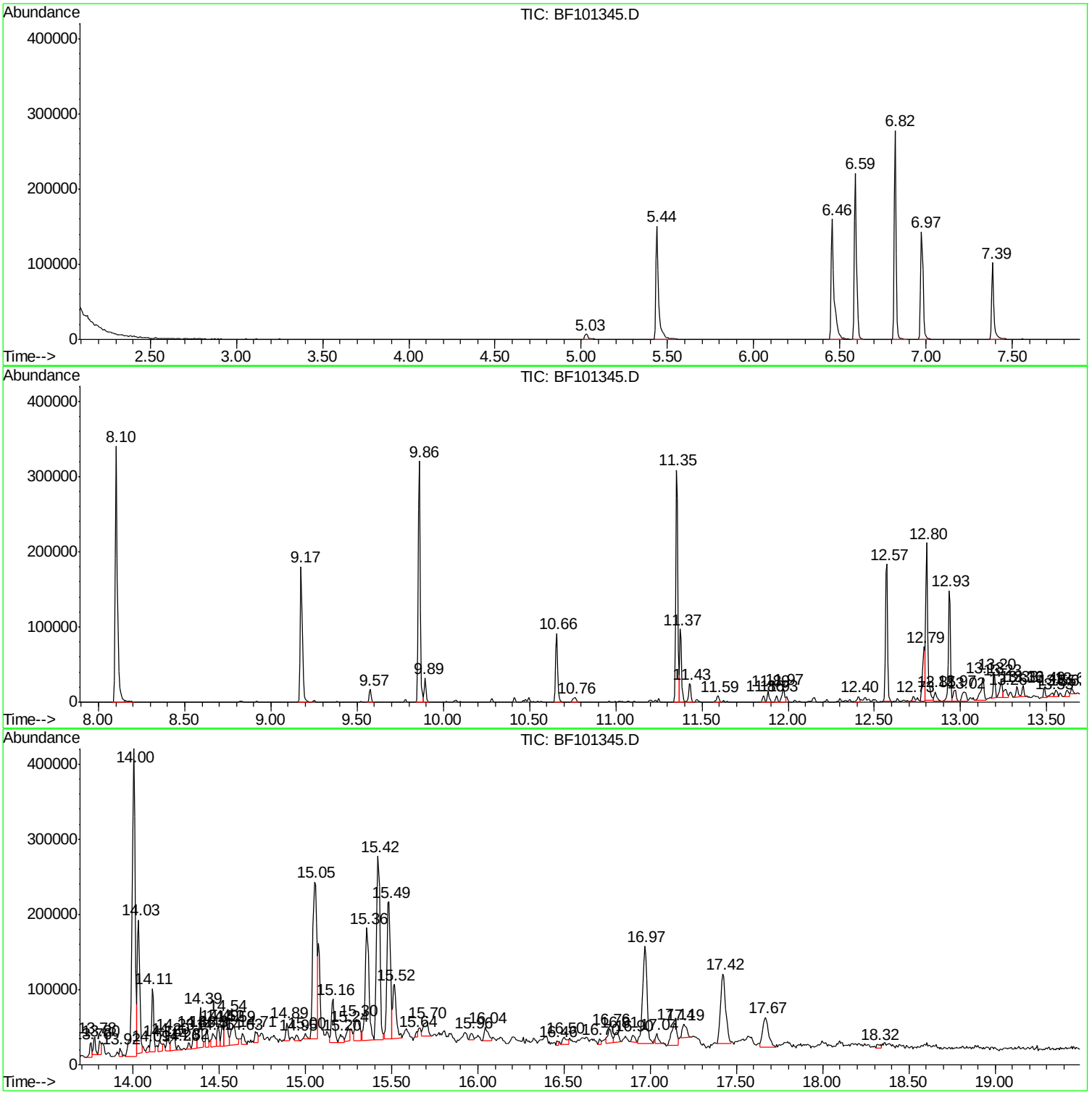
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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

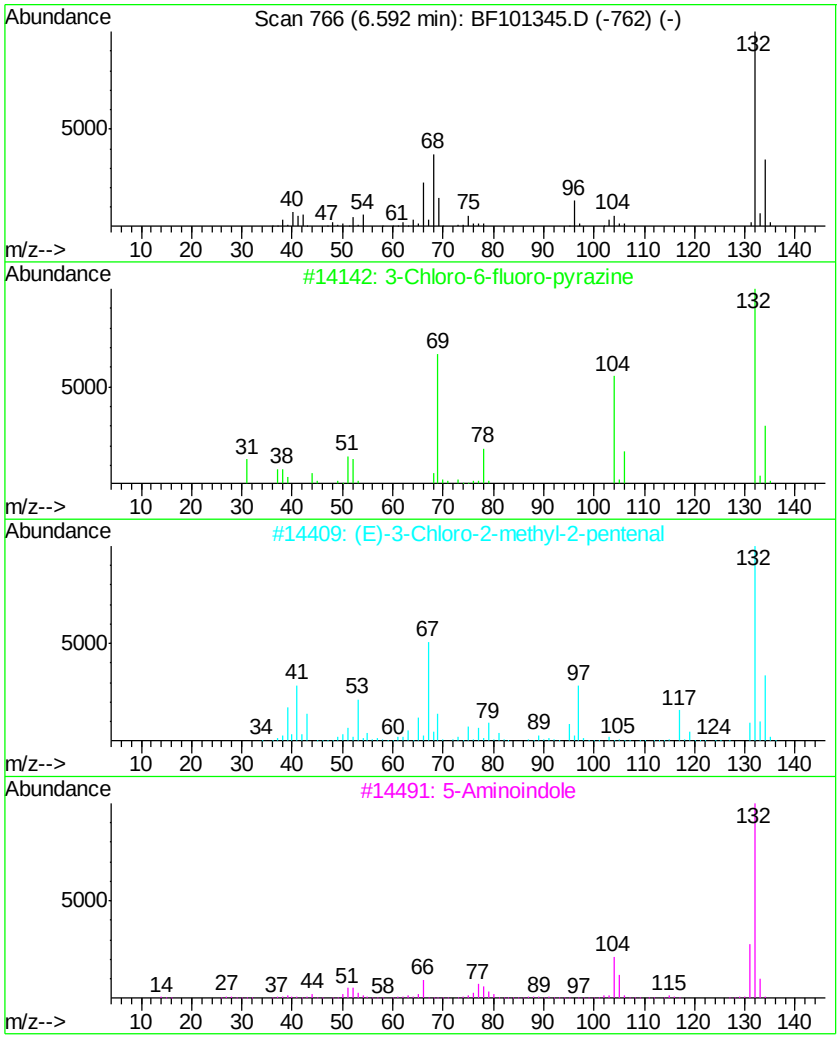
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

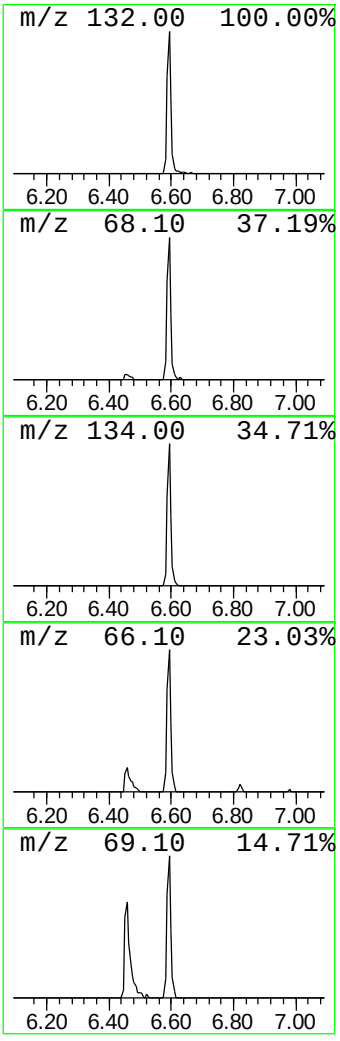
****

Peak Number 1 unknown6.59 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.59	16.81 ng	192347	1,4-Dichlorobenzene-d4	6.82

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	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	10
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
5	Xenon	132	Xe	007440-63-3	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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

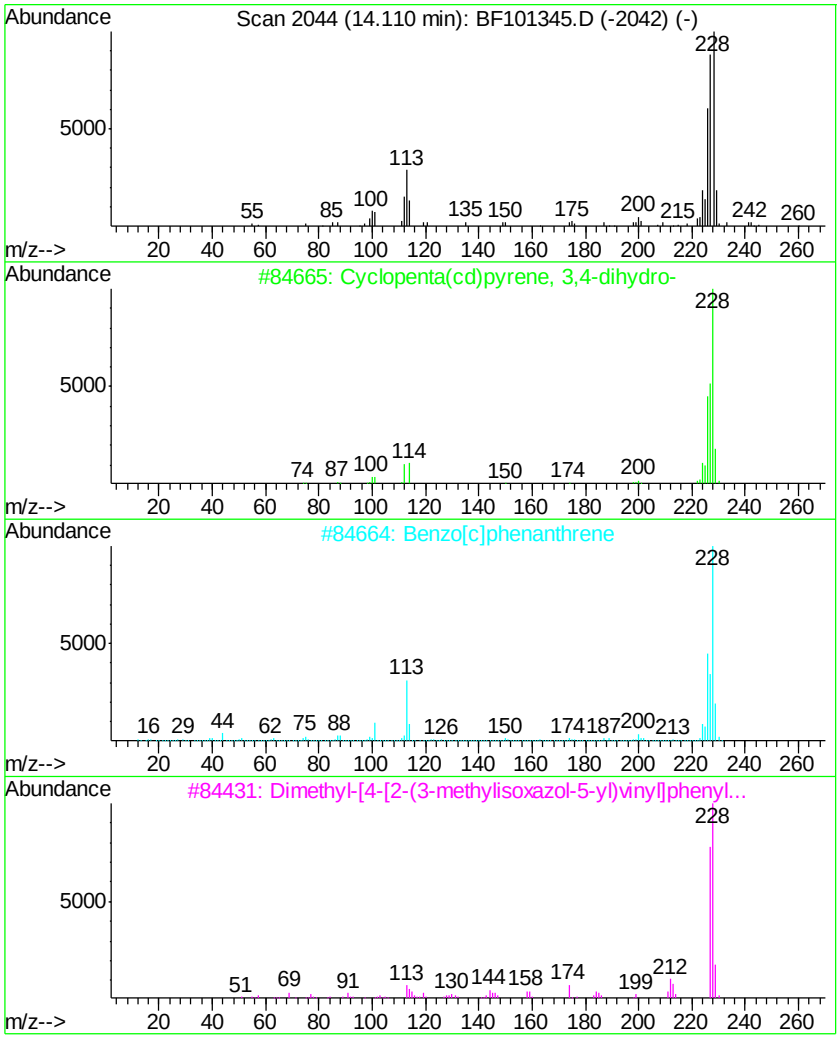
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

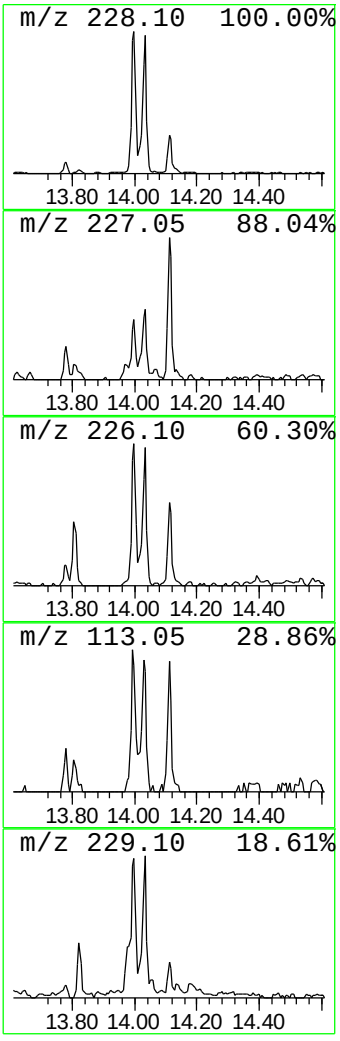
****

Peak Number 3 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.11	2.77 ng	74753	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	78
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47
5	Triphenylene	228	C18H12	000217-59-4	46





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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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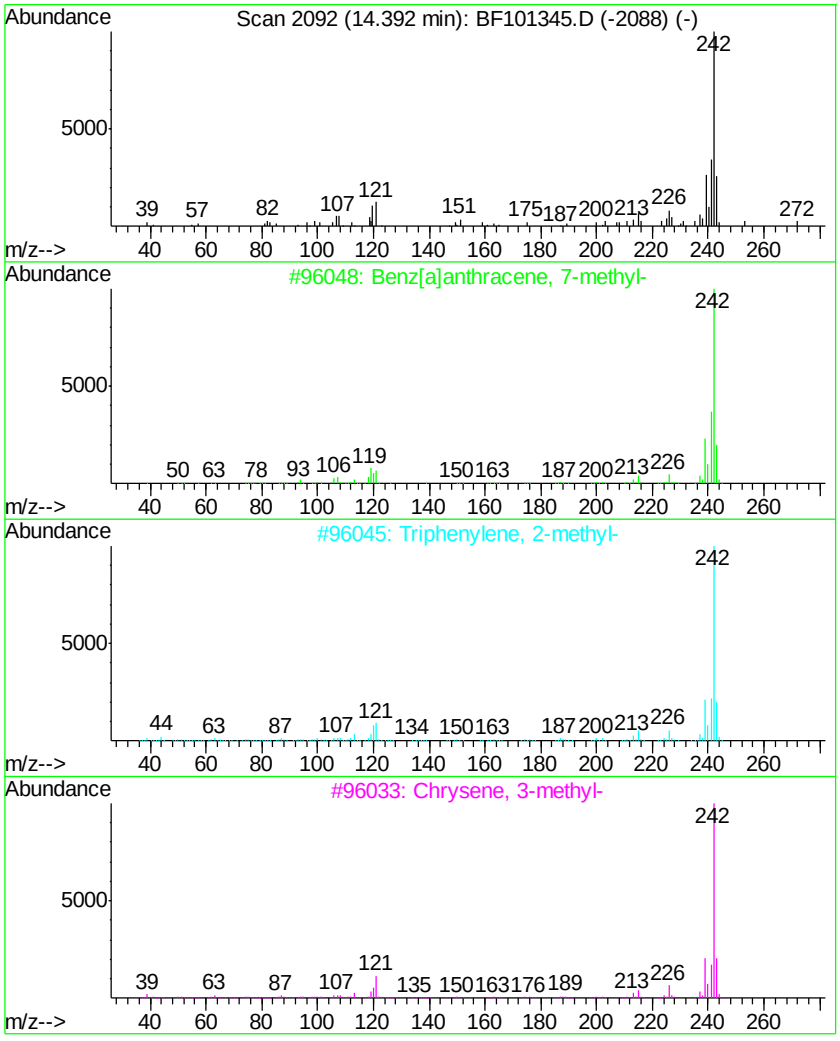
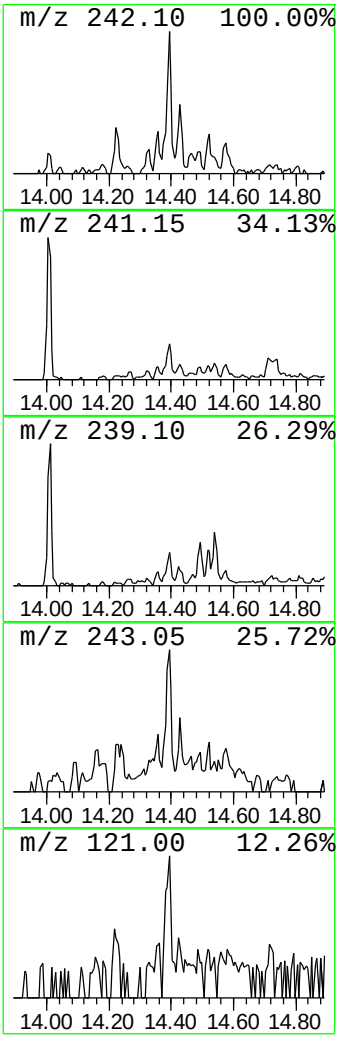
Peak Number 4 Benz[a]anthracene, 7-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.39	2.29 ng	61719	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	81
3	Chrysene, 3-methyl-	242	C19H14	003351-31-3	76
4	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	76
5	Benz[a]anthracene, 11-methyl-	242	C19H14	006111-78-0	76





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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

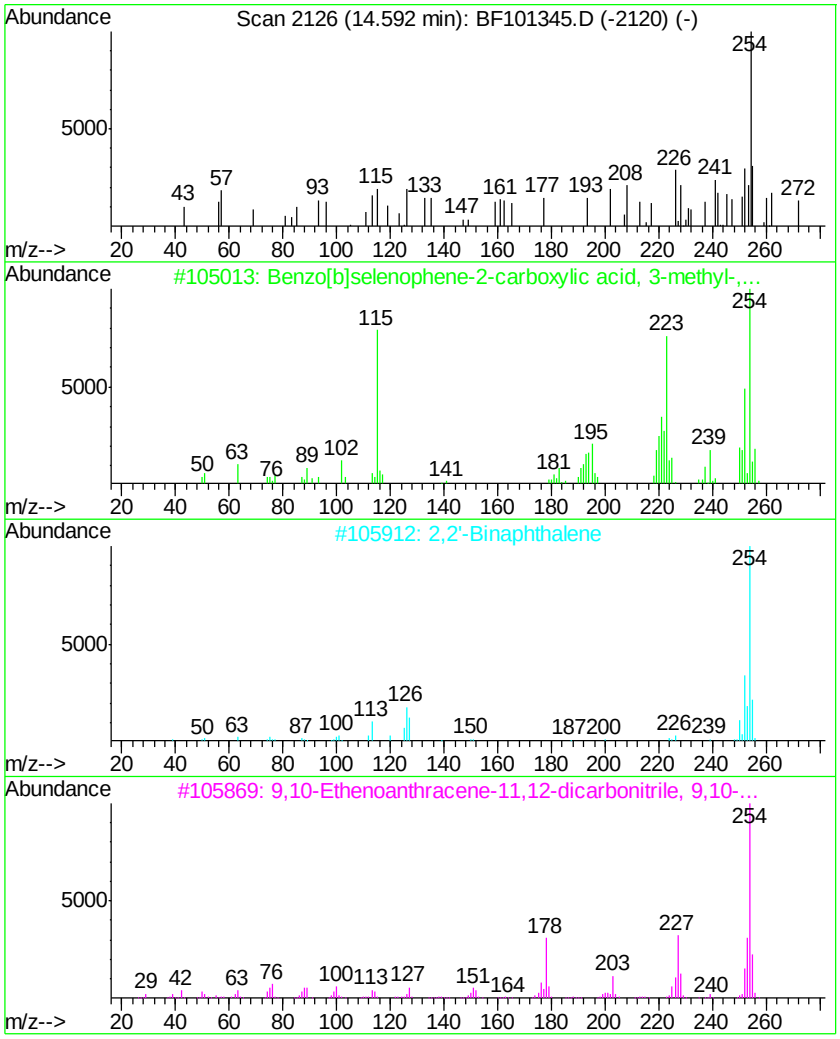
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

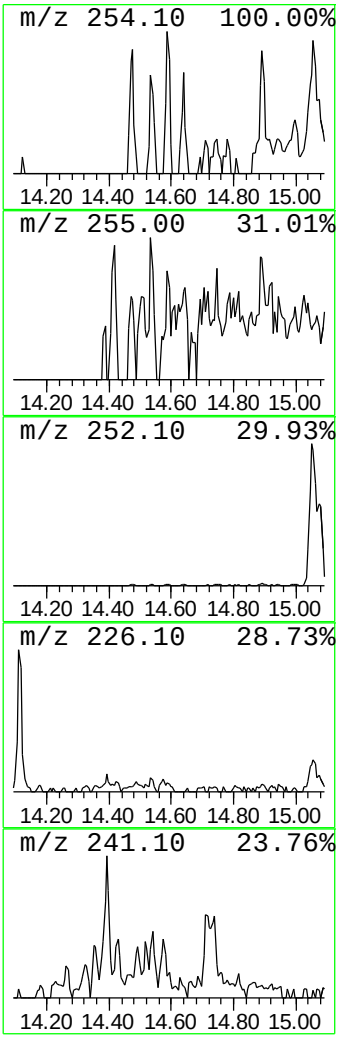
****

Peak Number 5 unknown14.59 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.59	2.03 ng	54702	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]selenophene-2-carboxylic...	254	C11H10O2Se	020984-13-8	49
2	2,2'-Binaphthalene	254	C20H14	000612-78-2	46
3	9,10-Ethenoanthracene-11,12-dica...	254	C18H10N2	019067-49-3	43
4	9,10-Anthracenedione, 1-hydroxy-...	254	C15H10O4	007336-64-3	43
5	2,5-Cyclohexadien-1-one, 4-[[4-(...	254	C16H18N2O	1000319-40-8	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
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Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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

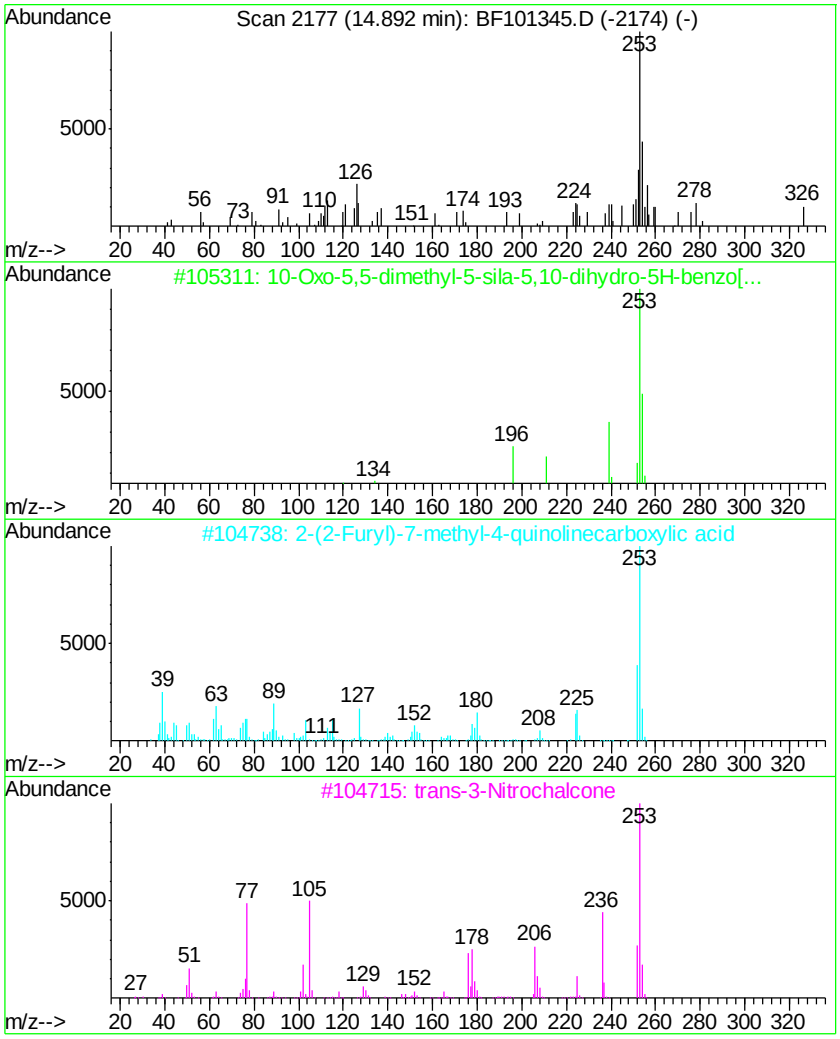
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

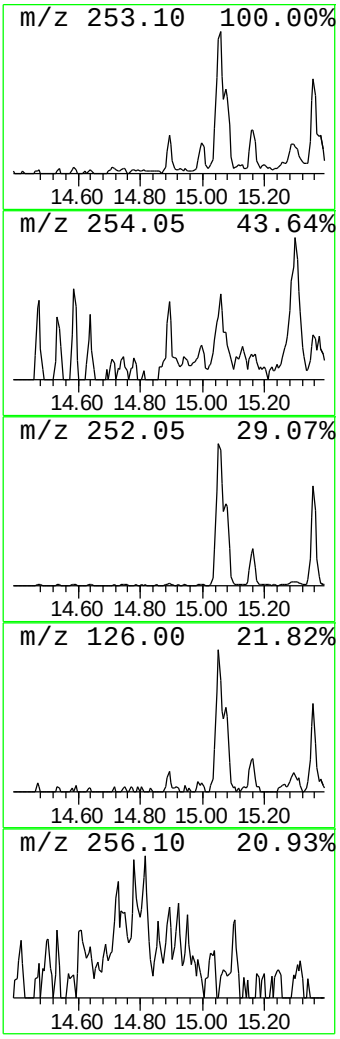
****

Peak Number 6 unknown14.89 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	2.15 ng	24832	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	38
2	2-(2-Furyl)-7-methyl-4-quinoline...	253	C15H11NO3	1000225-08-8	38
3	trans-3-Nitrochalcone	253	C15H11NO3	024721-24-2	32
4	2H-1,4-Benzothiazin-2-acetic aci...	253	C11H11NO2S2	002832-88-4	30
5	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	30





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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

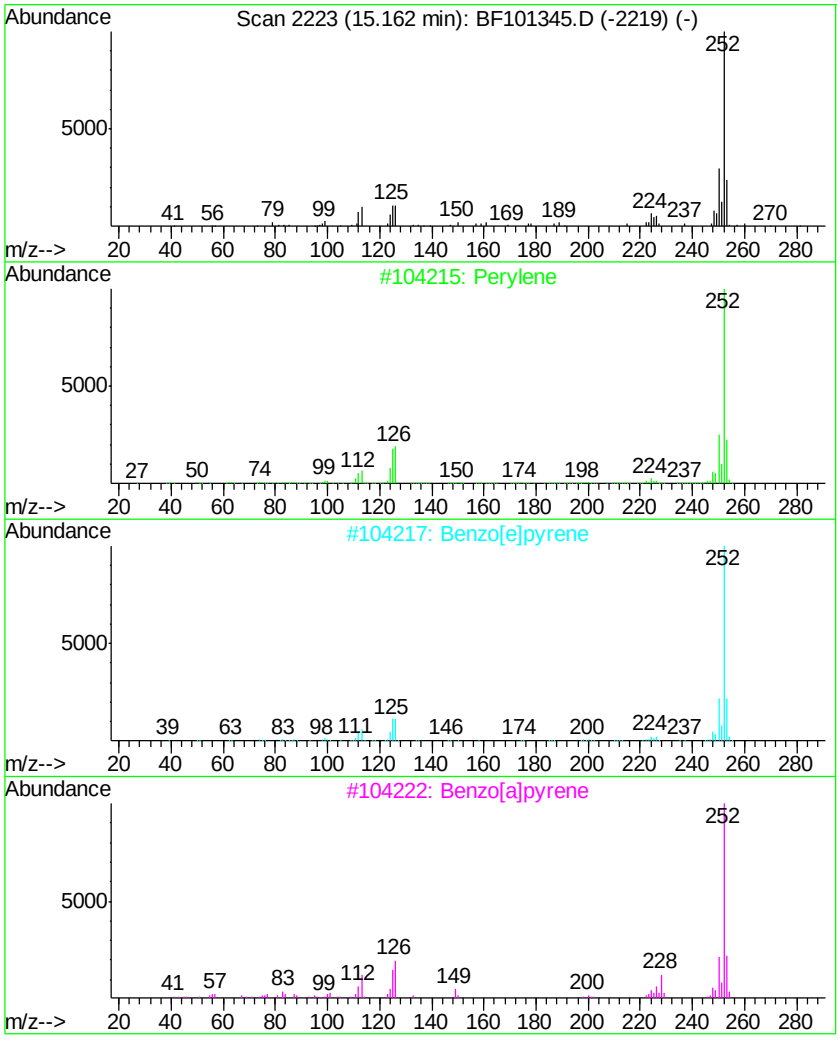
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

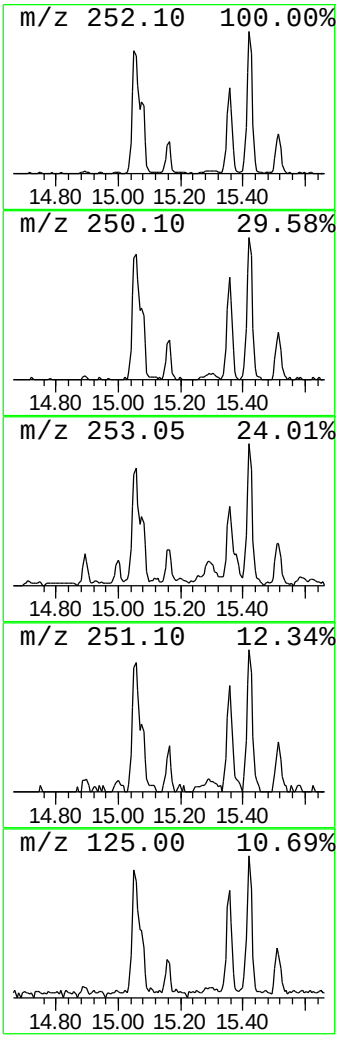
****

Peak Number 7 Perylene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	5.88 ng	67950	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	87
2	Benzo[e]pyrene	252	C20H12	000192-97-2	87
3	Benzo[a]pyrene	252	C20H12	000050-32-8	87
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	81
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	74





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Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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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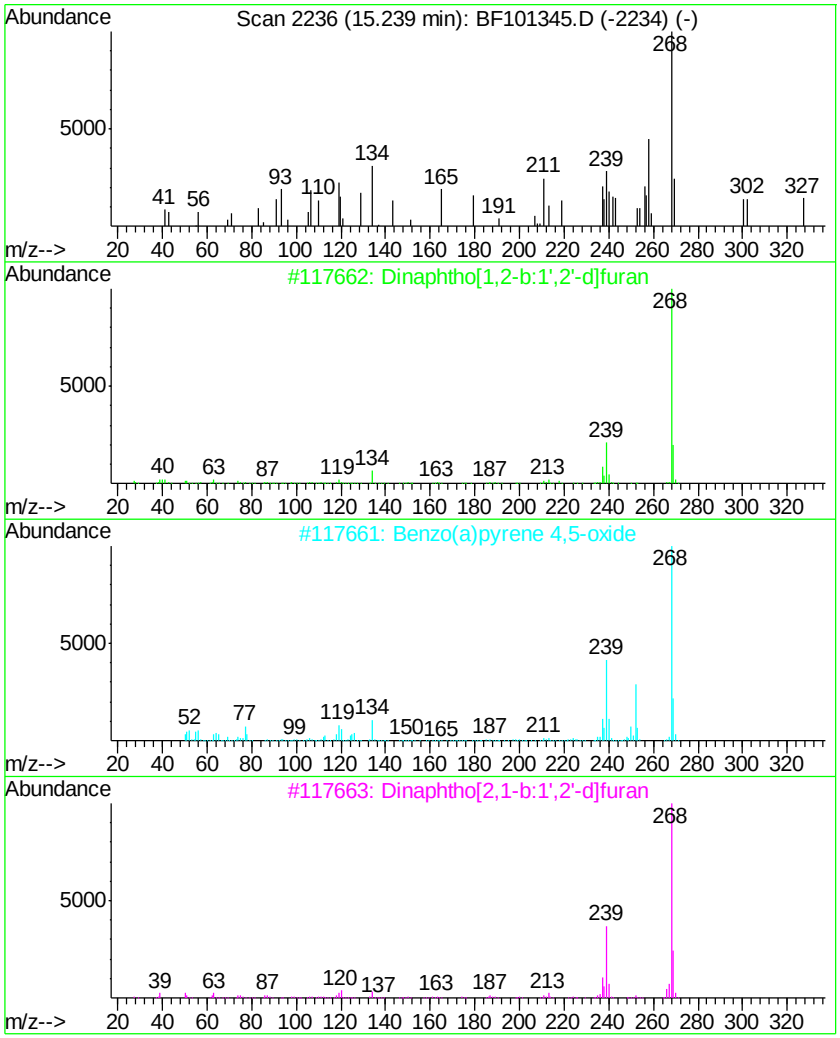
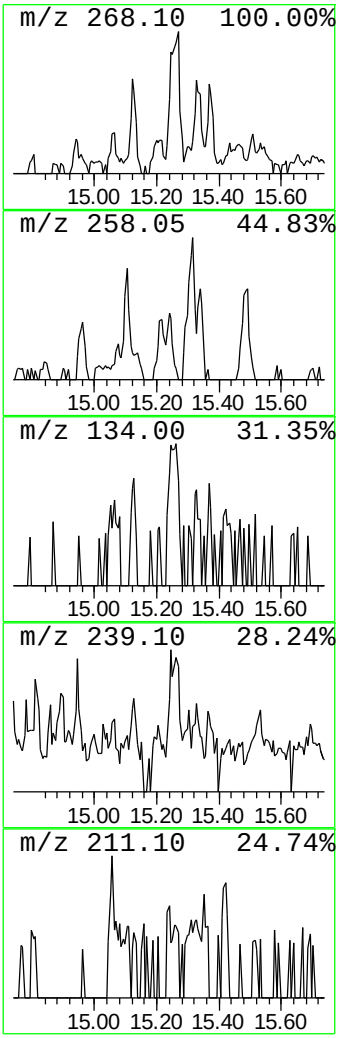
Peak Number 8 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	2.11 ng	24427	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	53
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	53
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	52
4	p-Anisaldehyde, azine	268	C16H16N2O2	002299-73-2	45
5	Benzene, 1,1'-(1,2-dimethyl-1,2-...	268	C18H20O2	000895-37-4	43





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Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
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TIC Integration Parameters: LSCINT.P

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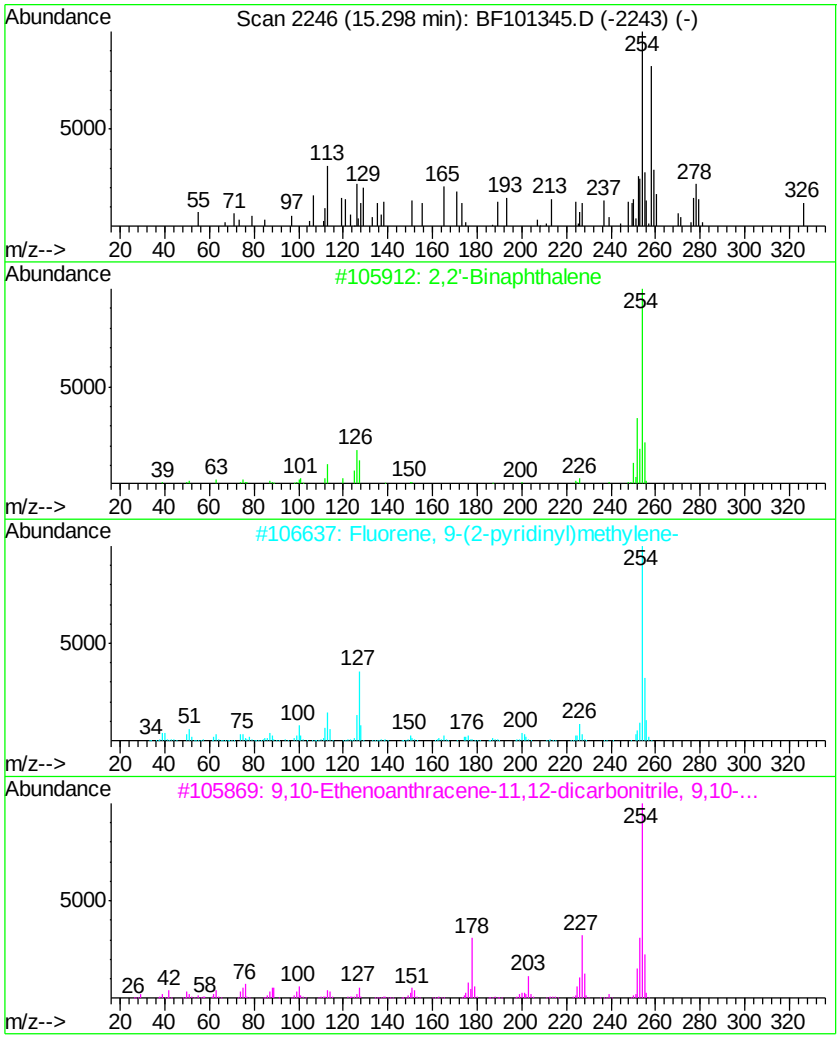
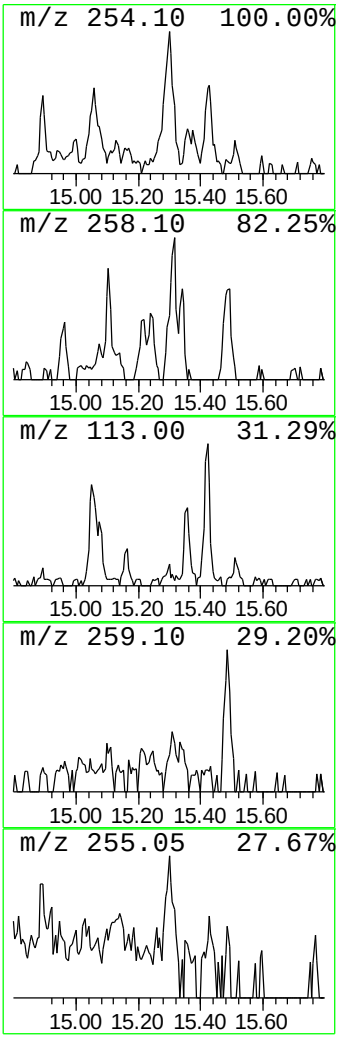
Peak Number 9 unknown15.30 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	4.25 ng	49208	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2'-Binaphthalene	254	C20H14	000612-78-2	22
2	Fluorene, 9-(2-pyridinyl)methylene-	255	C19H13N	002871-27-4	22
3	9,10-Ethenoanthracene-11,12-dica...	254	C18H10N2	019067-49-3	22
4	2,5-Cyclohexadien-1-one, 4-[[4-(...	254	C16H18N2O	1000319-40-8	22
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	22





Library Search Compound Report

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Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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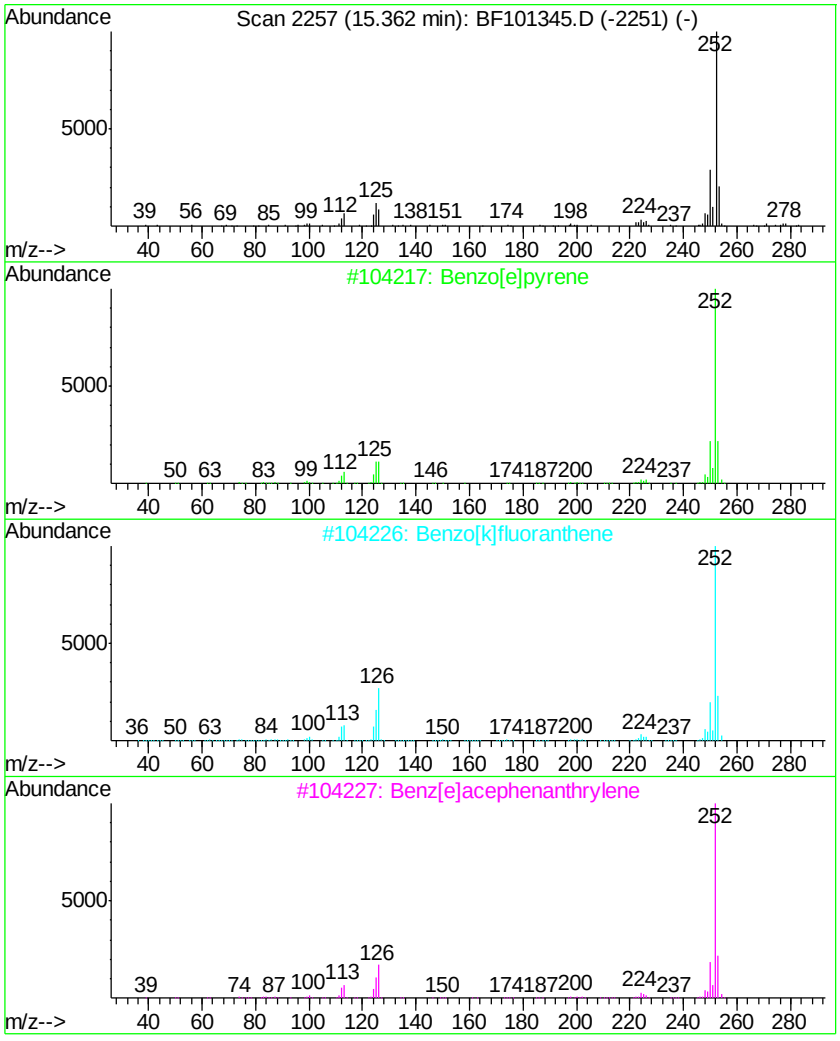
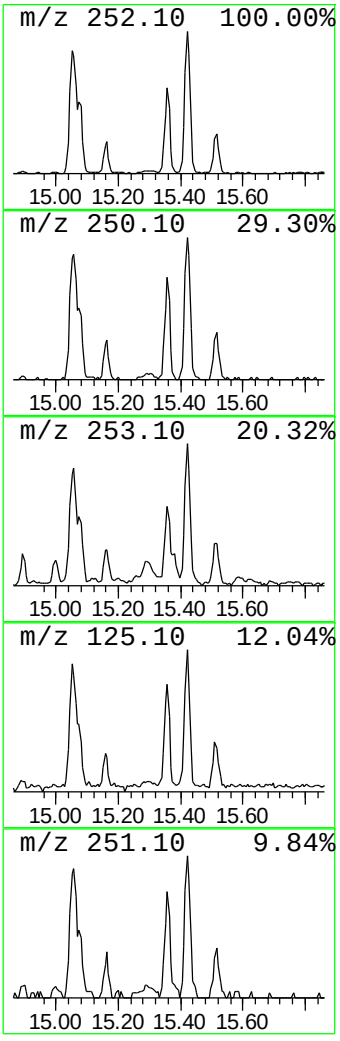
Peak Number 10 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	17.43 ng	201602	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
5	Perylene	252	C20H12	000198-55-0	89





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Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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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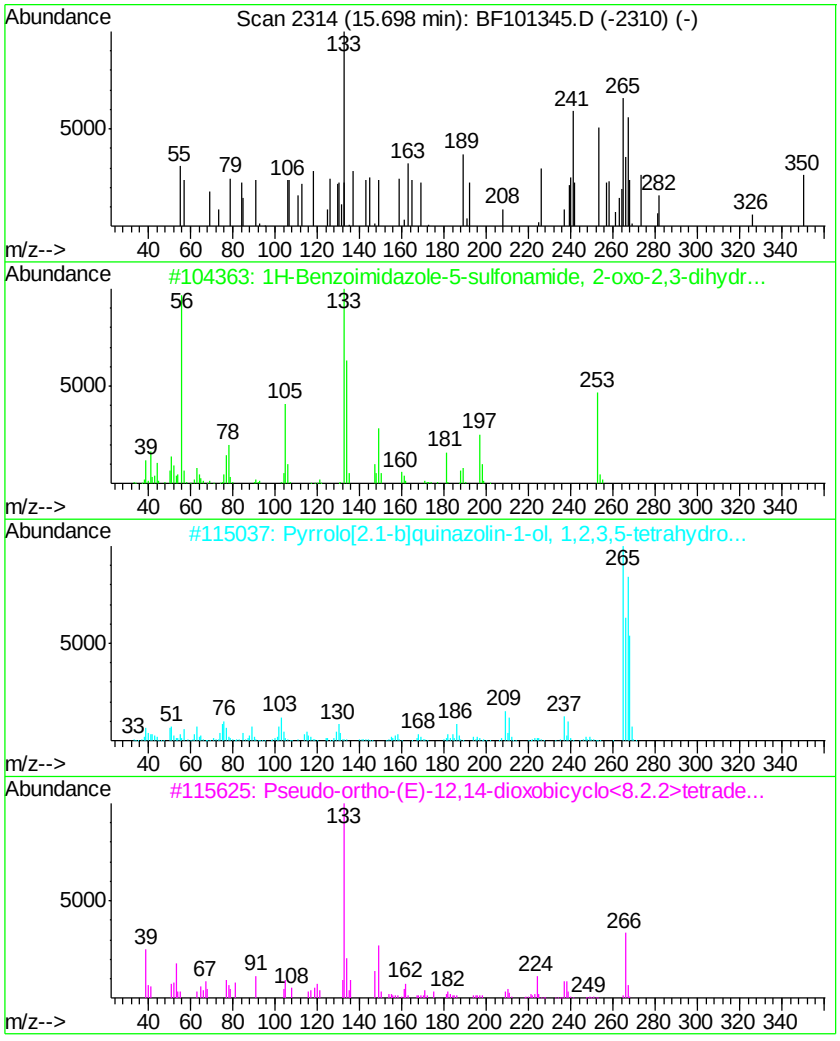
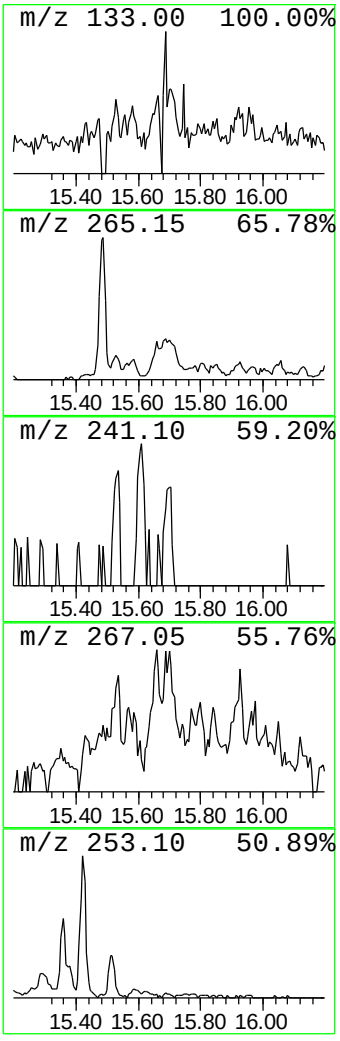
Peak Number 11 unknown15.70 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.70	3.36 ng	38875	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benzoimidazole-5-sulfonamide,...	253	C10H11N3O3S	1000303-16-3	22
2	Pyrrolo[2.1-b]quinazolin-1-ol, 1...	266	C11H11BrN2O	103518-86-1	14
3	Pseudo-ortho-(E)-12,14-dioxobicy...	266	C16H14N2O2	078821-68-8	14
4	4,7-Dichloro-1,3-dimethyl-1H-pyr...	265	C12H9Cl2N3	025627-94-5	12
5	2-Pyrrolidinone, 1,5-dimethyl-3,...	265	C18H19NO	030223-75-7	11





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Data File : BF101345.D
Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
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TIC Library : C:\DATABASE\NIST11.L
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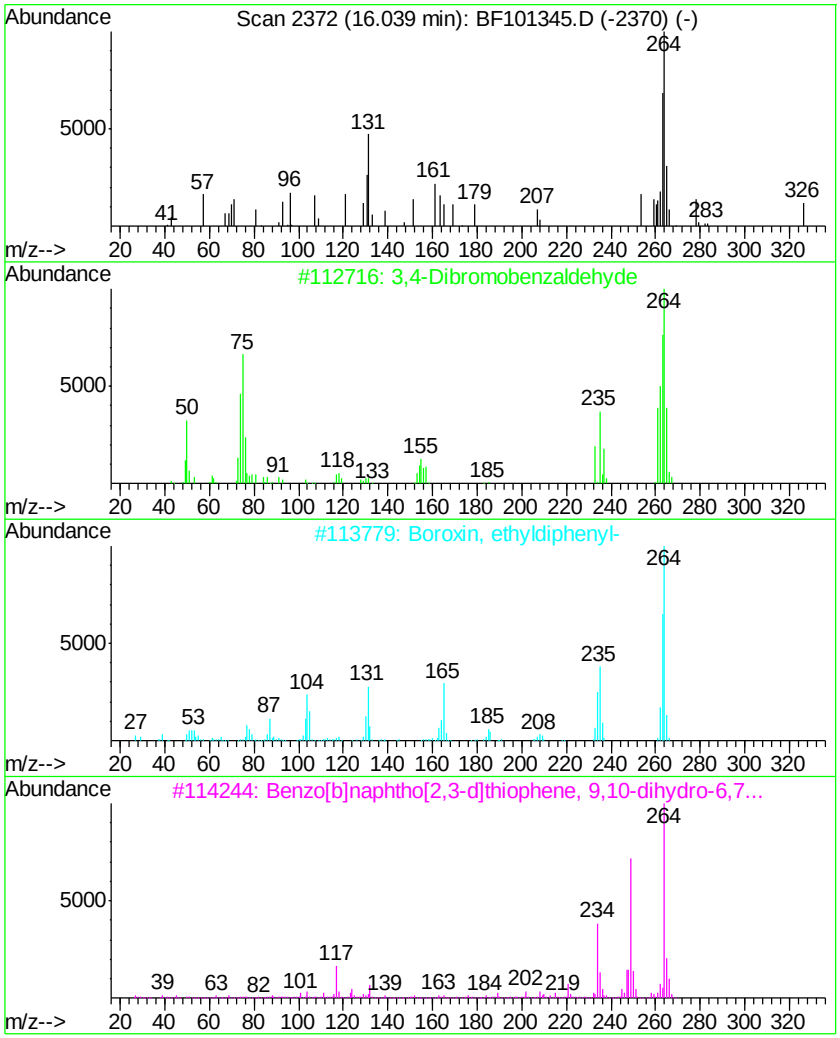
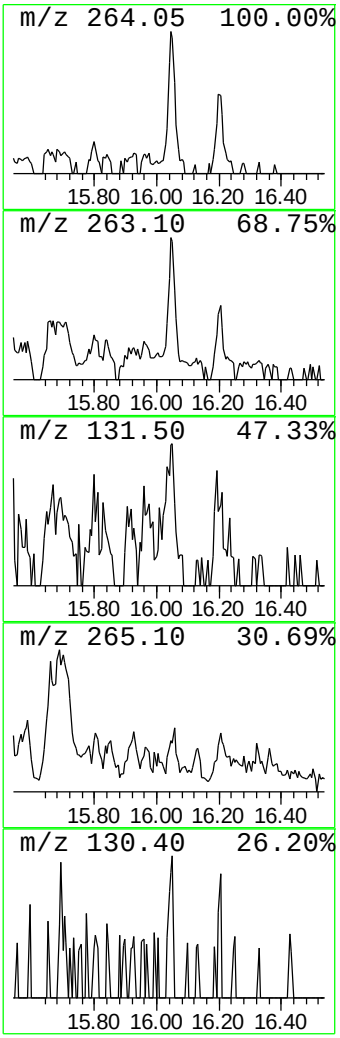
Peak Number 12 unknown16.04 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.04	2.24 ng	25907	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	38
2	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	38
3	Benzo[b]naphtho[2,3-d]thiophene,...	264	C18H16S	024964-02-1	30
4	Phenyl t-butyl telluride	264	C10H14Te	083817-38-3	27
5	1-(4-Methoxyphenyl)piperazine, 4...	264	C14H24N2OSi	1000373-99-5	22





Library Search Compound Report

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Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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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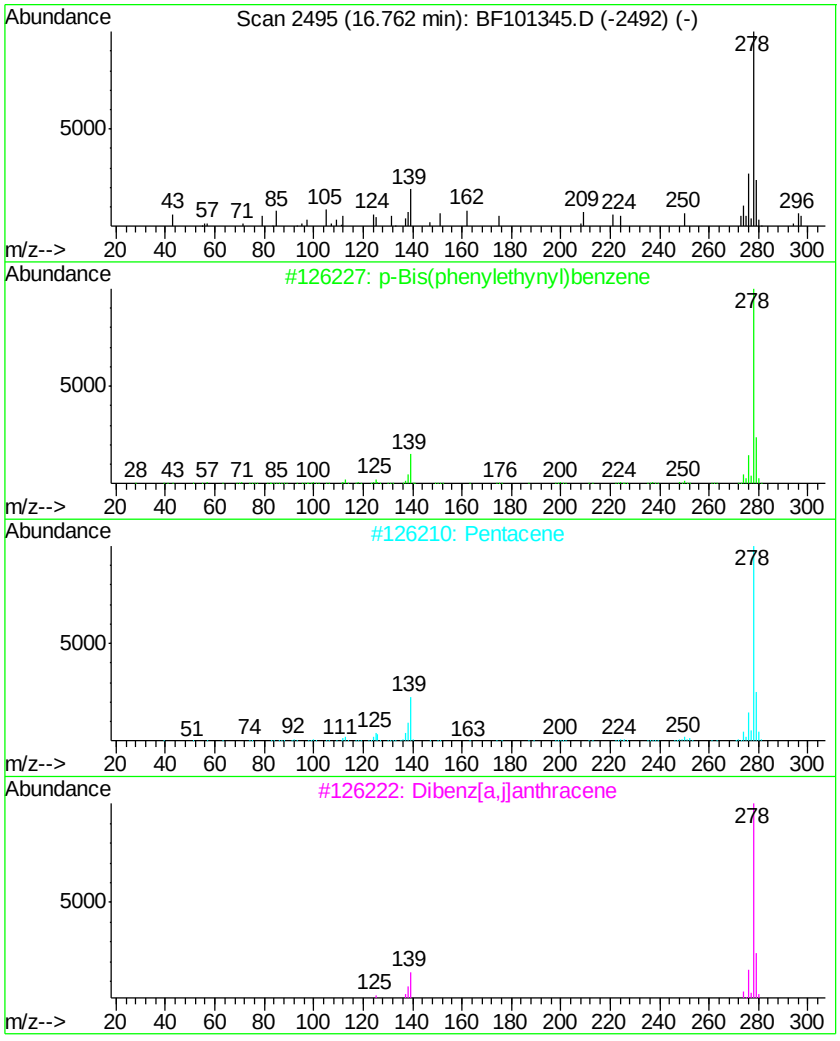
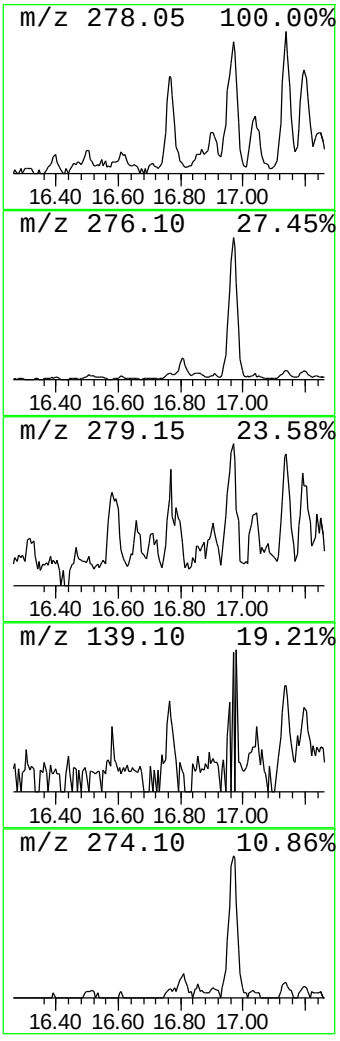
Peak Number 13 p-Bis(phenylethynyl)benzene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.76	2.53 ng	29204	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	72
2	Pentacene	278	C22H14	000135-48-8	68
3	Dibenz[a,j]anthracene	278	C22H14	000224-41-9	68
4	Benzo[b]triphenylene	278	C22H14	000215-58-7	64
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	59





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121217\
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Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(10-12)

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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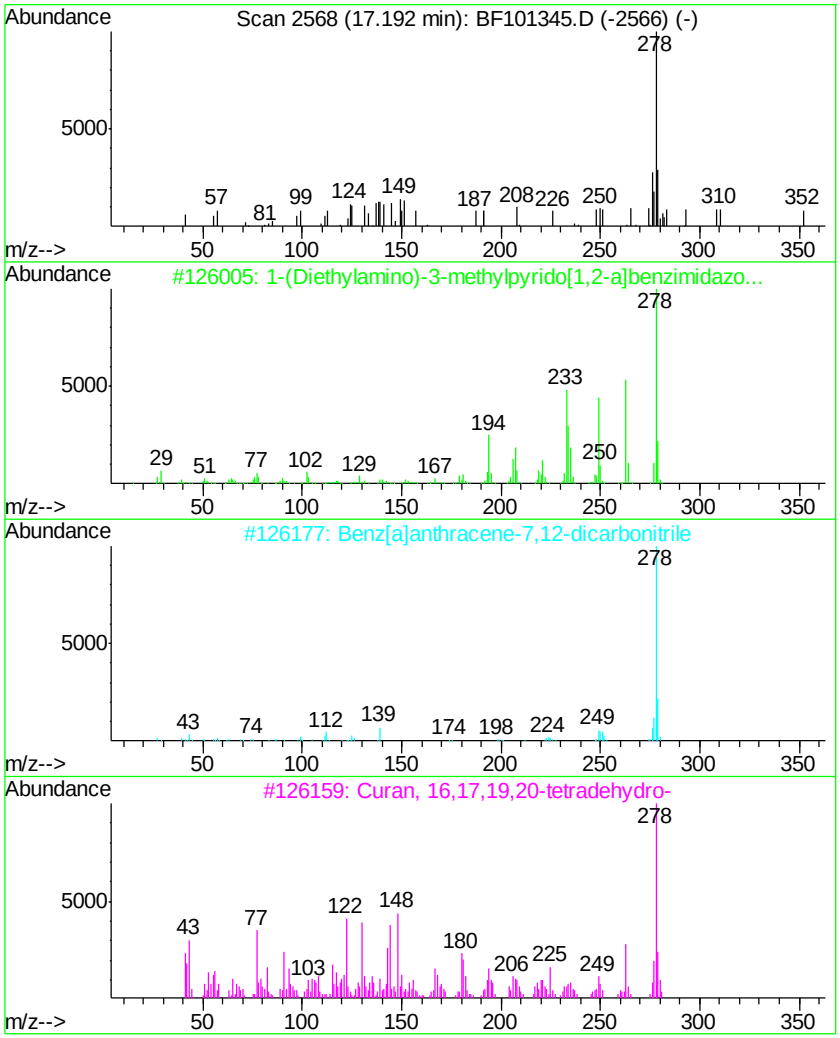
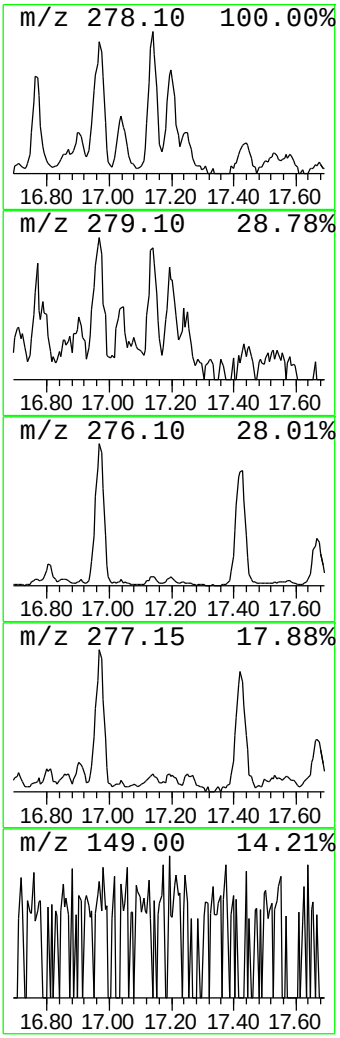
Peak Number 15 1-(Diethylamino)-3-methylpy... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.19	2.66 ng	30713	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(Diethylamino)-3-methylpyrido[...	278	C17H18N4	1000331-84-4	59
2	Benz[a]anthracene-7,12-dicarboni...	278	C20H10N2	035215-32-8	58
3	Curan, 16,17,19,20-tetradehydro-	278	C19H22N2	056053-17-9	58
4	Pentacene	278	C22H14	000135-48-8	52
5	17H-Cyclopenta[a]phenanthren-17-...	278	C19H18O2	056614-59-6	52





Tentatively Identified Compound (LSC) summary

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Acq On : 12 Dec 2017 22:14
Operator : SJ/JU
Sample : I6822-04 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
unknown6.59	6.59	16.8	ng	192347	1	6.82	228812	20.0
Cyclopenta(cd)pyr...	14.11	2.8	ng	74753	5	14.00	539878	20.0
Benz[a]anthracene...	14.39	2.3	ng	61719	5	14.00	539878	20.0
unknown14.59	14.59	2.0	ng	54702	5	14.00	539878	20.0
unknown14.89	14.89	2.1	ng	24832	6	15.49	231313	20.0
Perylene	15.16	5.9	ng	67950	6	15.49	231313	20.0
Dinaphtho[1,2-b:1...	15.24	2.1	ng	24427	6	15.49	231313	20.0
unknown15.30	15.30	4.3	ng	49208	6	15.49	231313	20.0
Benzo[e]pyrene	15.36	17.4	ng	201602	6	15.49	231313	20.0
unknown15.70	15.70	3.4	ng	38875	6	15.49	231313	20.0
unknown16.04	16.04	2.2	ng	25907	6	15.49	231313	20.0
p-Bis(phenylethyn...	16.76	2.5	ng	29204	6	15.49	231313	20.0
1-(Diethylamino)-...	17.19	2.7	ng	30713	6	15.49	231313	20.0