LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

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-BF092317.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	6.522	751	754	758	rVB	72917	54450	1.15%	0.119%
2	6.675	775	780	783	rBV	74629	56380	1.19%	0.124%
3	6.910	817	820	824	rBV	1070217	880239	18.52%	1.930%
4	8.192	1034	1038	1041	rBV	1413935	1337439	28.14%	2.932%
5	8.216	1041	1042	1045	rVB	359416	187760	3.95%	0.412%
6	8.904	1156	1159	1163	rVB	168109	129655	2.73%	0.284%
7	9.004	1171	1176	1179	rBV	132562	103724	2.18%	0.227%
8	9.263	1217	1220	1224	rVB	115897	91471	1.92%	0.201%
9	9.533	1259	1266	1270	rVB	72279	95513	2.01%	0.209%
10	9.604	1273	1278	1281	rBV	125551	120985	2.55%	0.265%
11	9.633	1281	1283	1285	rVB	76771	54513	1.15%	0.120%
12	9.722	1295	1298	1300	rBV	57545	48280	1.02%	0.106%
13	9.810	1310	1313	1316	rVB2	107066	85352	1.80%	0.187%
14	9.951	1333	1337	1340	rBV	1686485	1405138	29.56%	3.081%
15	9.980	1340	1342	1345	rVB	629434	480524	10.11%	1.053%
16	10.151	1367	1371	1374	rBV	369919	310980	6.54%	0.682%
17	10.186	1374	1377	1381	rVB	60099	48840	1.03%	0.107%
18	10.263	1386	1390	1393	rBV2	55106	54215	1.14%	0.119%
19	10.351	1401	1405	1407	rBV2	39828	50609	1.06%	0.111%
20	10.498	1426	1430	1435	rVB	668491	577261	12.14%	1.266%
21	10.580	1443	1444	1447	rVB	80502	54777	1.15%	0.120%
22	10.651	1454	1456	1460	rVB	149792	117539	2.47%	0.258%
23	10.733	1464	1470	1474	rBV	228411	238078	5.01%	0.522%
24	10.857	1486	1491	1495	rBV5	56358	87313	1.84%	0.191%
25	11.045	1516	1523	1525	rBV3	145270	174063	3.66%	0.382%
26	11.068	1525	1527	1530	rVV2	76996	66357	1.40%	0.145%
27	11.127	1534	1537	1540	rVV2	71565	66001	1.39%	0.145%
28	11.168	1540	1544	1546	rVV3	84453	108158	2.28%	0.237%
29	11.192	1546	1548	1553	rVV2	97992	120358	2.53%	0.264%
30	11.239	1553	1556	1560	rVV	141897	135757	2.86%	0.298%
31	11.280	1560	1563	1567	rVV2	85895	123783	2.60%	0.271%
32	11.333	1569	1572	1577	rVB	307290	258865	5.45%	0.568%
33	11.439	1586	1590	1592	rBV	1550813	1562406	32.87%	3.425%
34	11.468	1592	1595	1598	rVV	3831510	3397044	71.46%	7.448%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

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-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.516	1598	1603	1605	rVV	1426808	1204474	25.34%	2.641%
36	11.545	1605	1608	1610	rVB2	89365	89135	1.88%	0.195%
37	11.663	1621	1628	1631	rBV	373196	344199	7.24%	0.755%
38	11.733	1637	1640	1643	rBV2	81829	73275	1.54%	0.161%
39	11.768	1643	1646	1651	rVB3	86688	89017	1.87%	0.195%
40	11.845	1657	1659	1664	rVB	54003	59719	1.26%	0.131%
41	11.939	1669	1675	1677	rBV	513921	481977	10.14%	1.057%
42	11.963	1677	1679	1683	rVB	618144	581227	12.23%	1.274%
43	12.010	1683	1687	1690	rBV	279533	274646	5.78%	0.602%
44	12.051	1690	1694	1696	rBV	912002	917572	19.30%	2.012%
45	12.074	1696	1698	1701	rVB	306759	238556	5.02%	0.523%
46	12.233	1721	1725	1727	rBV	385587	309513	6.51%	0.679%
47	12.257	1727	1729	1732	rVB	197151	150052	3.16%	0.329%
48	12.380	1745	1750	1753	rBV	118182	129615	2.73%	0.284%
49	12.410	1753	1755	1757	rVV	123744	100963	2.12%	0.221%
50	12.433	1757	1759	1762	rVB	105855	88321	1.86%	0.194%
51	12.486	1764	1768	1771	rBV	235133	255870	5.38%	0.561%
52	12.527	1771	1775	1777	rVV3	140897	185044	3.89%	0.406%
53	12.574	1780	1783	1788	rVB	244327	260522	5.48%	0.571%
54	12.663	1792	1798	1801	rBV	4150321	4671880	98.28%	10.242%
55	12.692	1801	1803	1804	rBV	59318	48192	1.01%	0.106%
56	12.710	1804	1806	1809	rVB	104741	96491	2.03%	0.212%
57	12.745	1809	1812	1814	rVB2	57838	50538	1.06%	0.111%
58	12.804	1814	1822	1825	rBV2	231355	372612	7.84%	0.817%
59	12.892	1829	1837	1840	rBV2	3436467	4753459	100.00%	10.421%
60	12.927	1840	1843	1848	rVB2	214760	234079	4.92%	0.513%
61	12.998	1852	1855	1857	rBV	262287	241914	5.09%	0.530%
62	13.033	1859	1861	1865	rVB	194362	177908	3.74%	0.390%
63	13.098	1867	1872	1875	rBV3	265337	452793	9.53%	0.993%
64	13.127	1875	1877	1880	rVB	103658	72675	1.53%	0.159%
65	13.180	1883	1886	1887	rBV2	171428	152078	3.20%	0.333%
66	13.204	1887	1890	1894	rVB	637716	629198	13.24%	1.379%
67	13.274	1898	1902	1904	rBV	546669	473598	9.96%	1.038%
68	13.310	1904	1908	1911	rBV2	349969	362688	7.63%	0.795%
69	13.339	1911	1913	1915	rVB	102152	82556	1.74%	0.181%
70	13.368	1915	1918	1920	rBV2	81200	72847	1.53%	0.160%
71	13.404	1921	1924	1926	rBV	184507	155878	3.28%	0.342%

LSC Area Percent Report

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Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

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-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.433	1926	1929	1932	rBV	212168	189144	3.98%	0.415%
73	13.686	1969	1972	1974	rBV3	79636	102827	2.16%	0.225%
74	13.710	1974	1976	1980	rVB	202264	202391	4.26%	0.444%
75	13.821	1992	1995	1998	rVB2	245984	270294	5.69%	0.593%
76	13.851	1998	2000	2003	rBV	223026	183887	3.87%	0.403%
77	13.880	2003	2005	2009	rVV2	194859	253187	5.33%	0.555%
78	13.921	2009	2012	2017	rVB2	187063	201880	4.25%	0.443%
79	14.074	2031	2038	2041	rBV3	1997448	2904482	61.10%	6.368%
80	14.104	2041	2043	2048	rVB	1486627	1387324	29.19%	3.042%
81	14.186	2054	2057	2060	rBV	359416	401952	8.46%	0.881%
82	14.298	2073	2076	2079	rVB2	170101	182935	3.85%	0.401%
83	14.457	2101	2103	2107	rVB	270130	266740	5.61%	0.585%
84	15.133	2213	2218	2221	rBV	911852	1526879	32.12%	3.347%
85	15.239	2233	2236	2239	rBV	200704	205950	4.33%	0.452%
86	15.439	2266	2270	2276	rVB	601415	822594	17.31%	1.803%
87	15.504	2276	2281	2287	rVV	896970	1241577	26.12%	2.722%
88	15.568	2288	2292	2295	rVV	655418	953952	20.07%	2.091%
89	15.598	2295	2297	2311	rVB	377028	707797	14.89%	1.552%
90	17.068	2542	2547	2557	rVB2	461324	947880	19.94%	2.078%
91	17.527	2619	2625	2637	rVB	367001	835287	17.57%	1.831%
92	17.762	2661	2665	2674	rVB2	103440	204841	4.31%	0.449%

Sum of corrected areas: 45612708

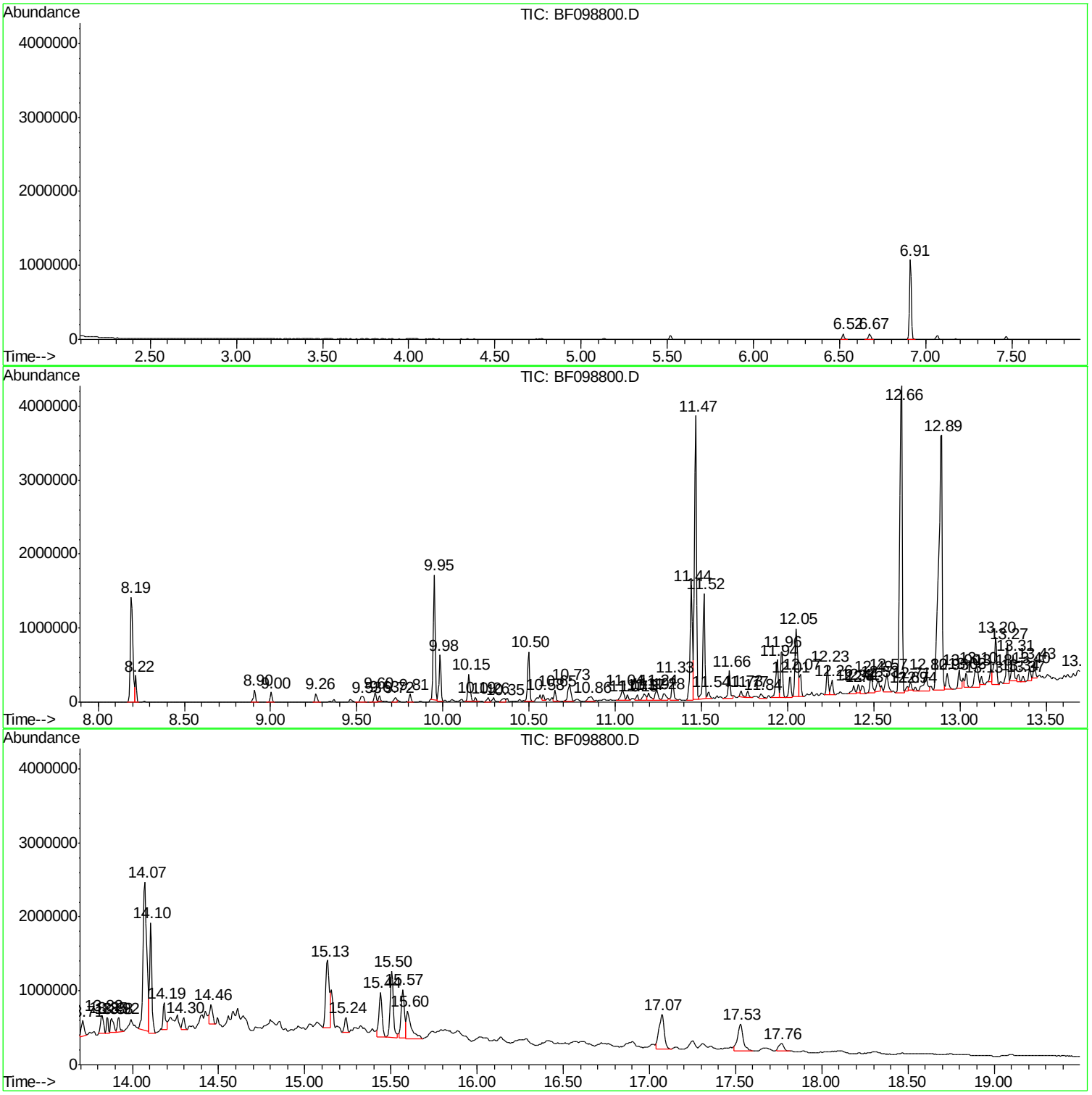
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

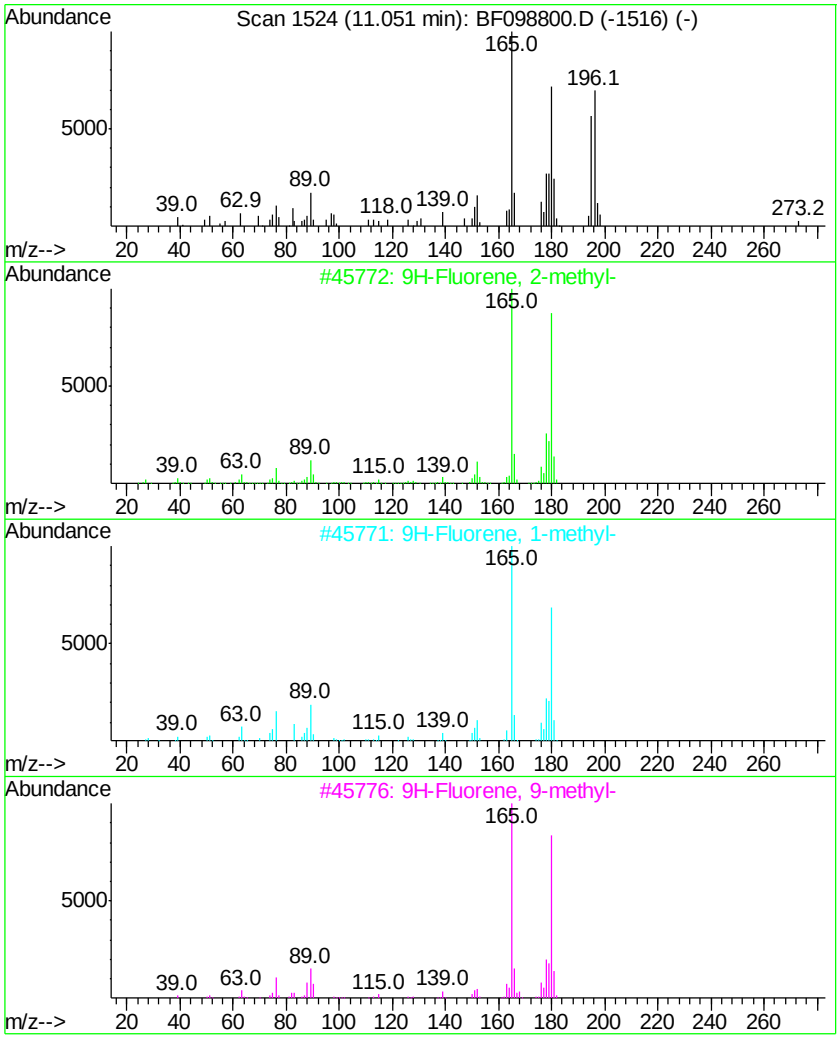
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

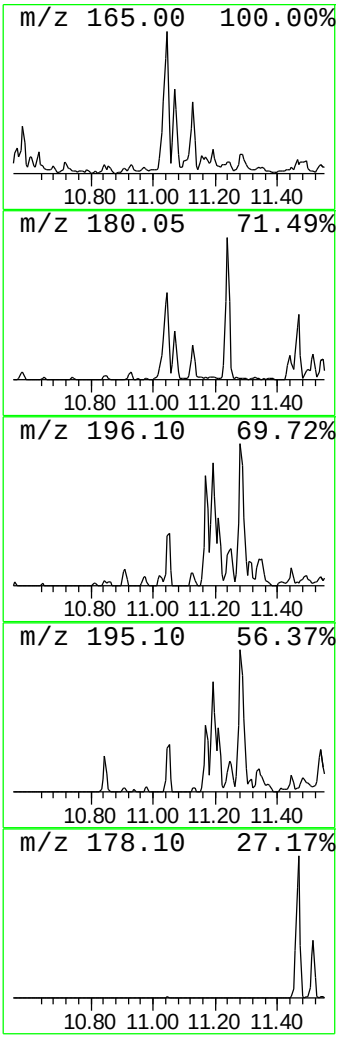
****

Peak Number 1 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.05	2.23 ng	174063	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	83
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	70
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	70





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

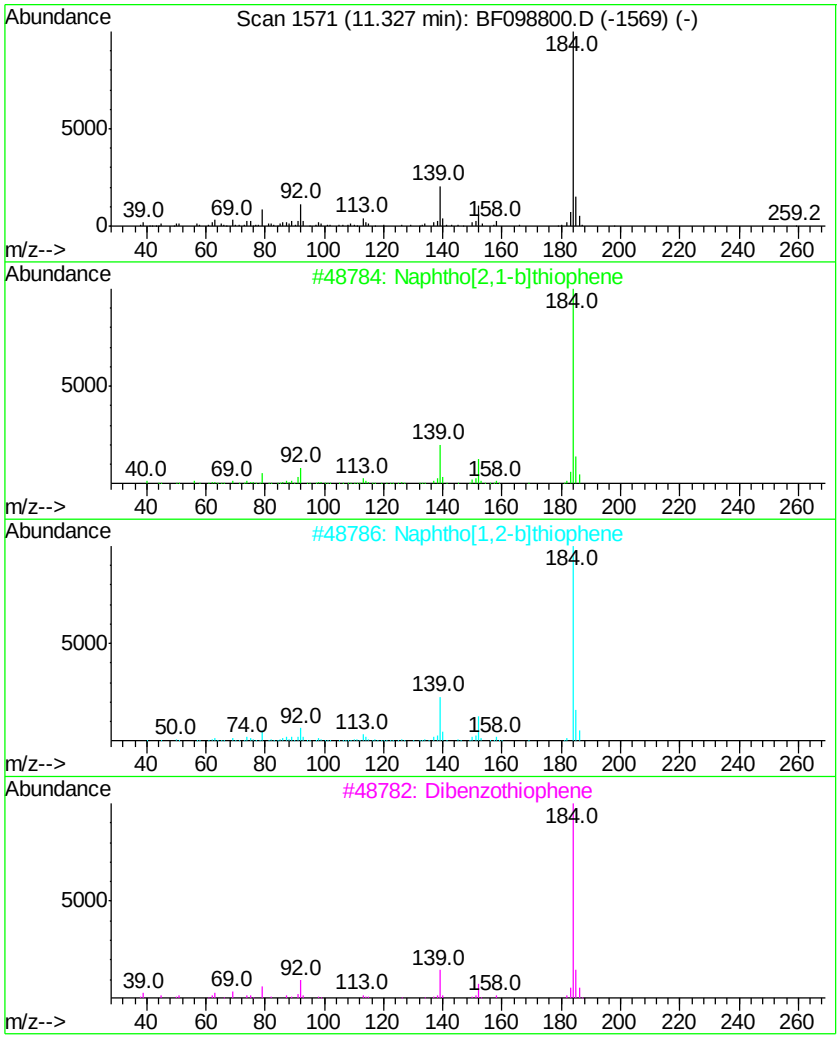
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

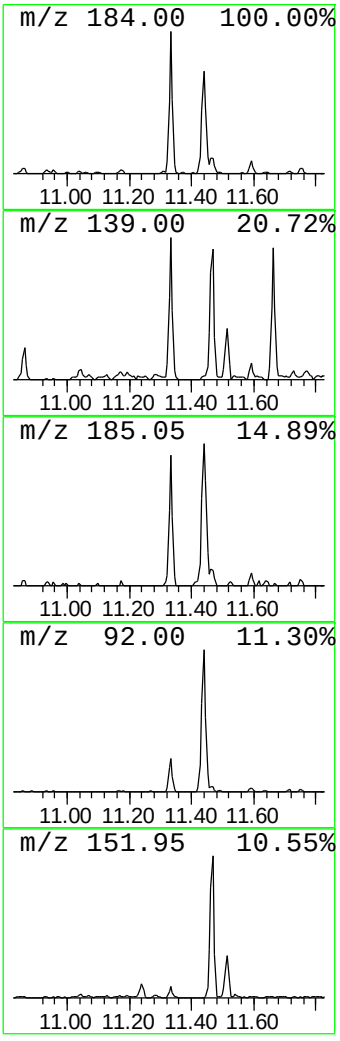
****

Peak Number 2 Naphtho[2,1-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.33	3.31 ng	258865	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	96
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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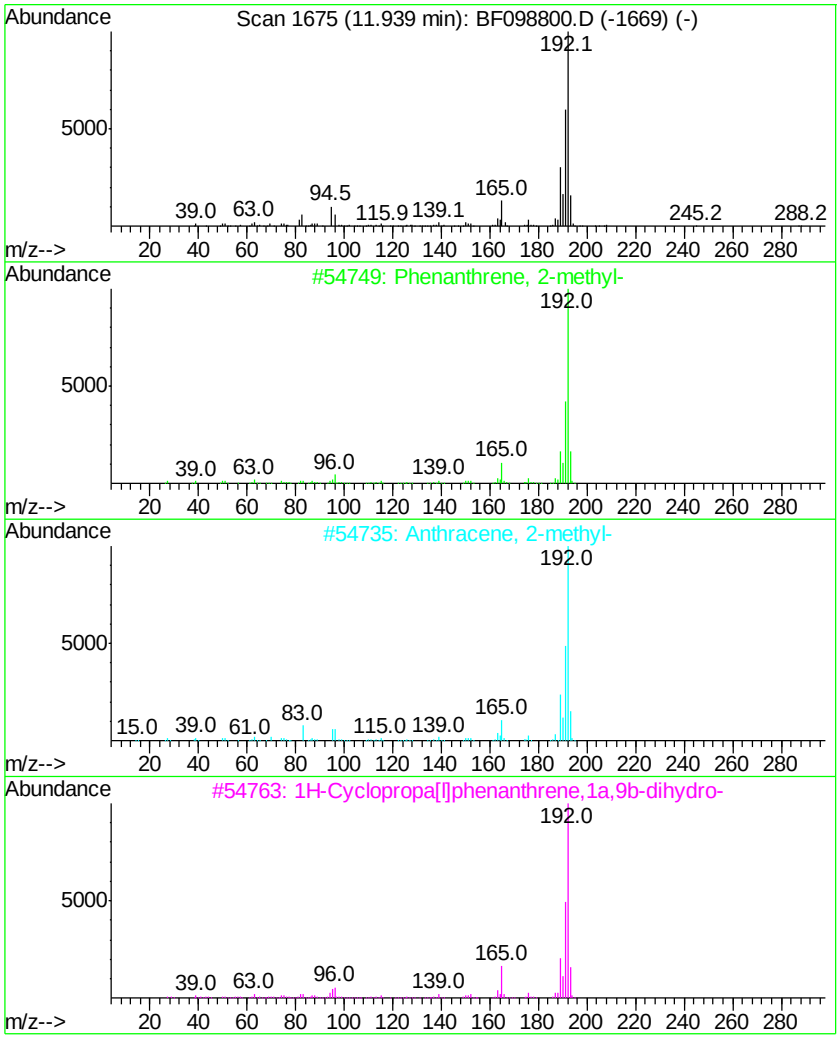
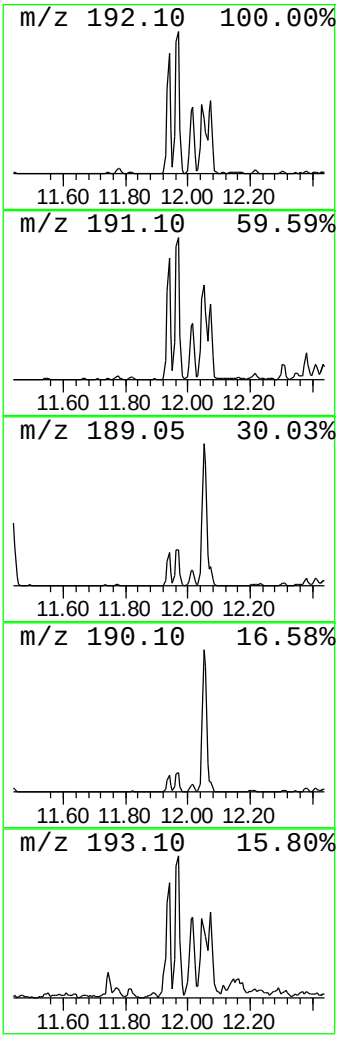
Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	6.17 ng	481977	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

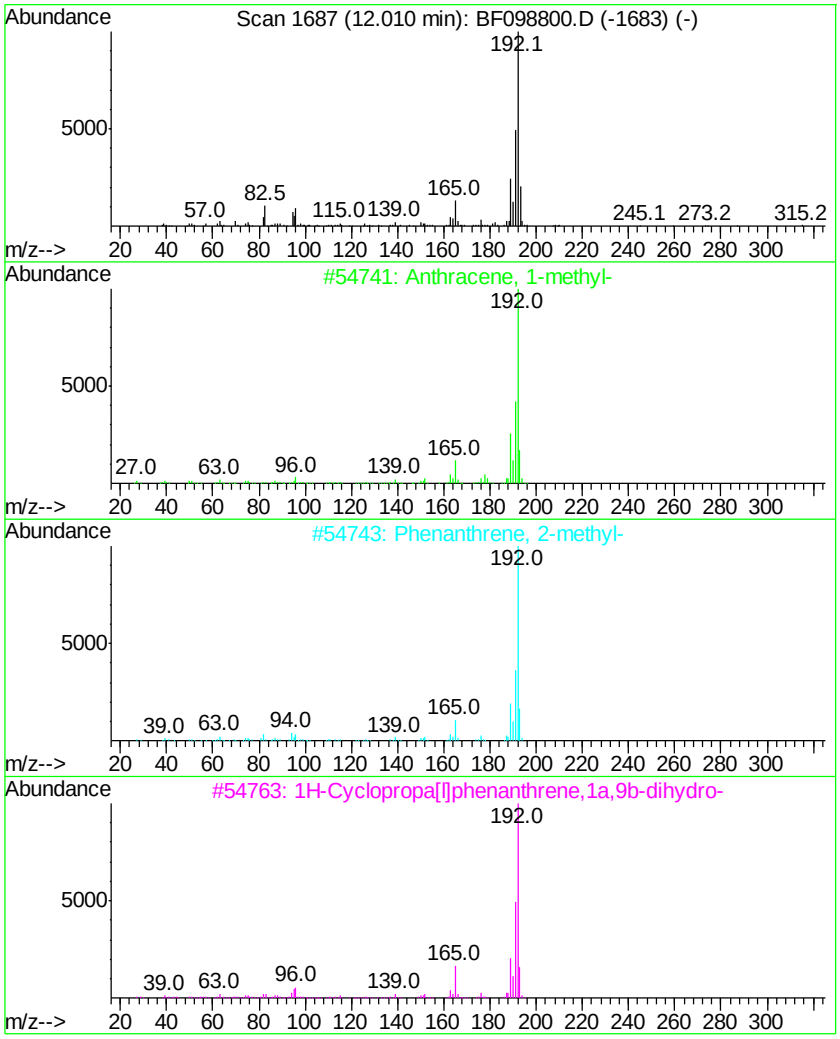
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

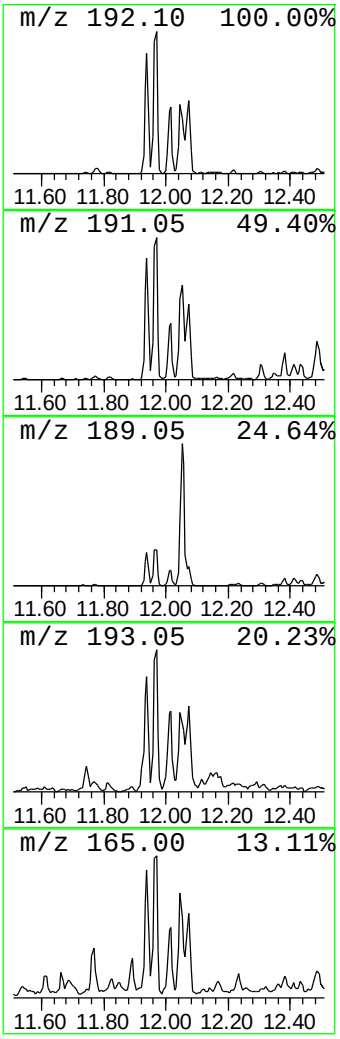
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	3.52 ng	274646	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





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Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

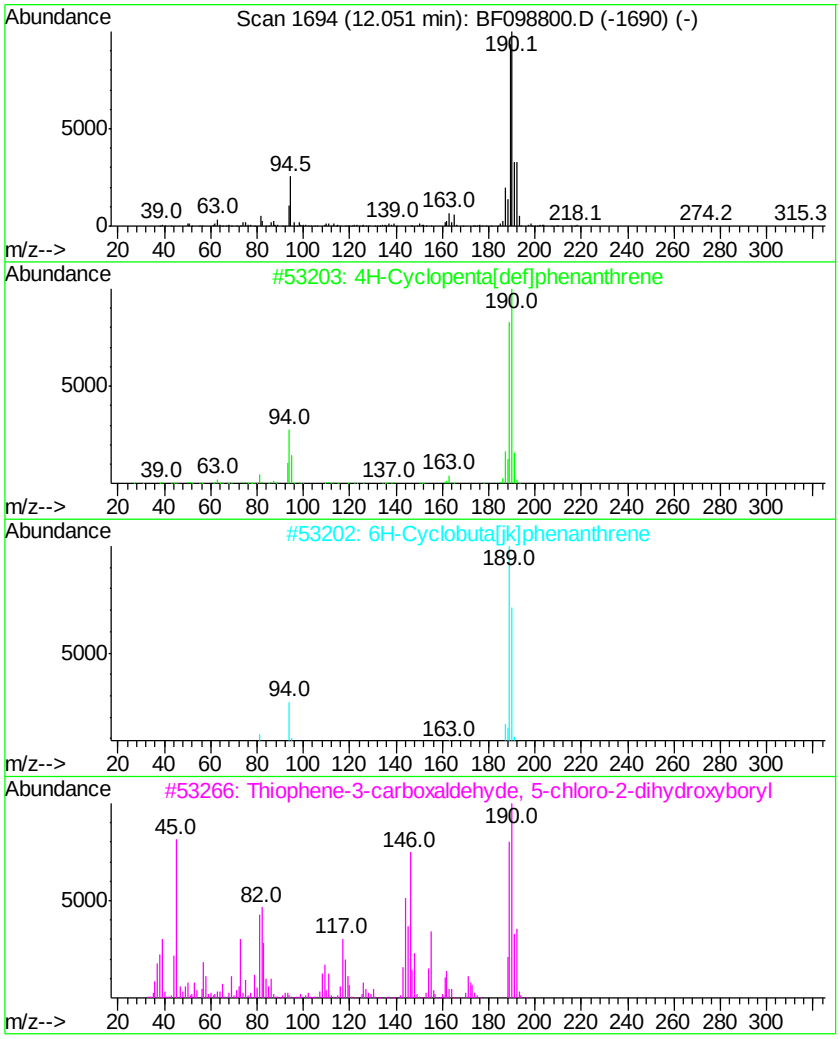
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

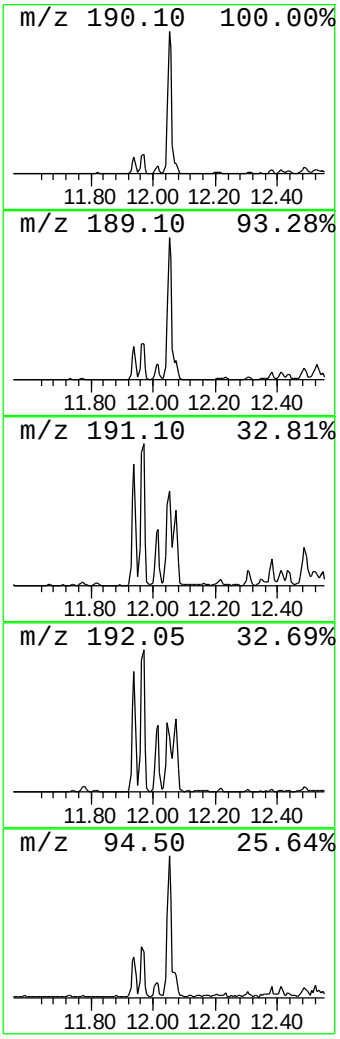
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	11.75 ng	917572	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	56
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	49





Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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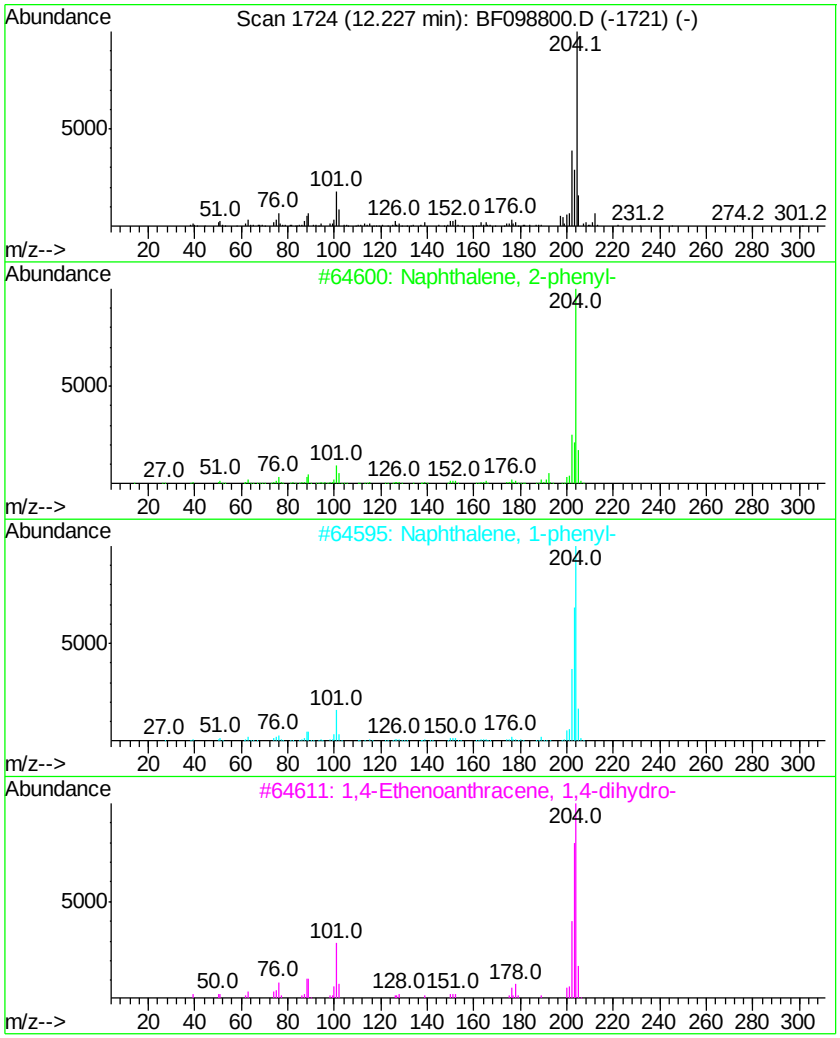
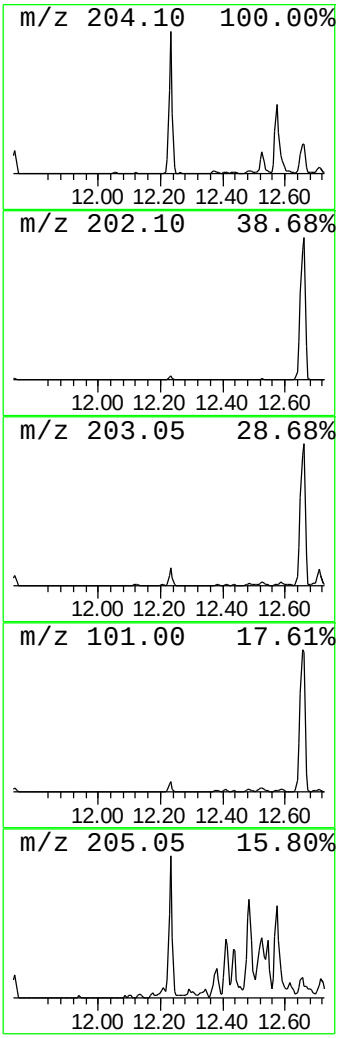
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	3.96 ng	309513	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
3	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	47
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
5	Quinoline, 6-methoxy-5-nitro-	204	C10H8N2O3	006623-91-2	46





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Data File : BF098800.D
Acq On : 25 Sep 2017 23:27
Operator : SJ/JU
Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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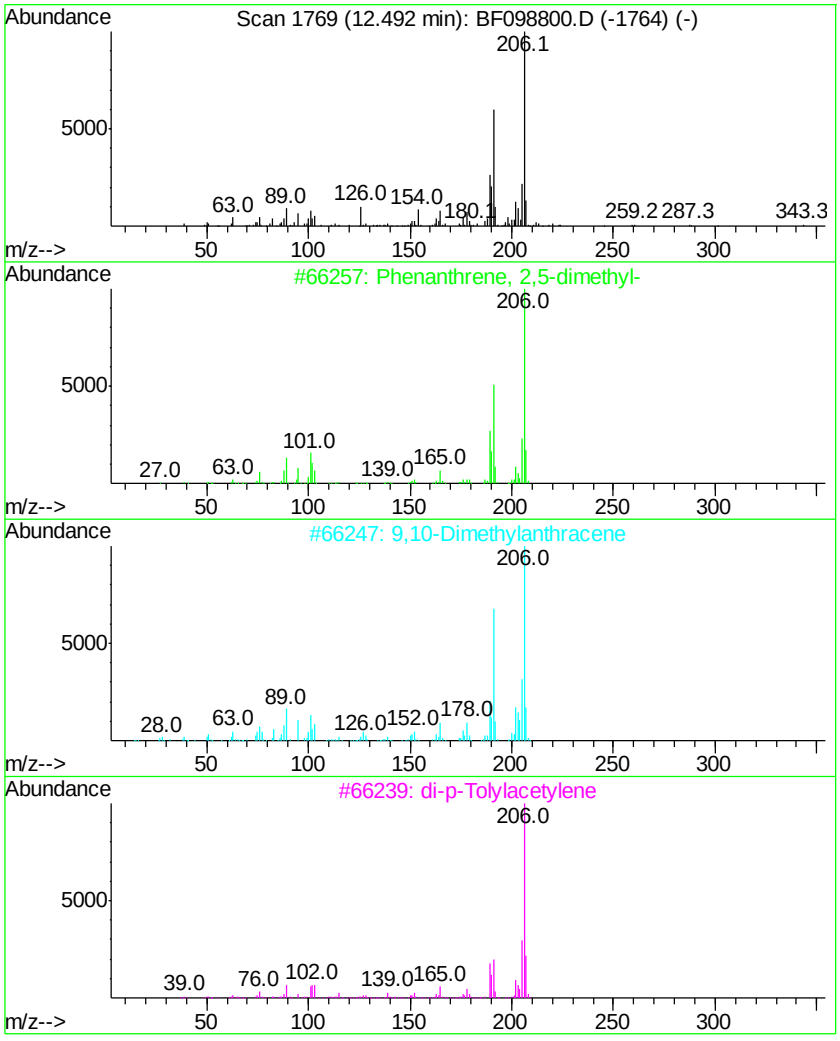
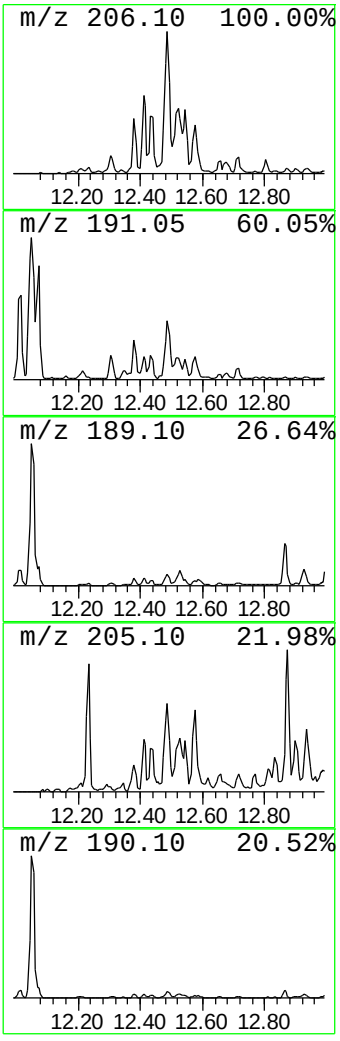
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	3.28 ng	255870	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90





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Acq On : 25 Sep 2017 23:27
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Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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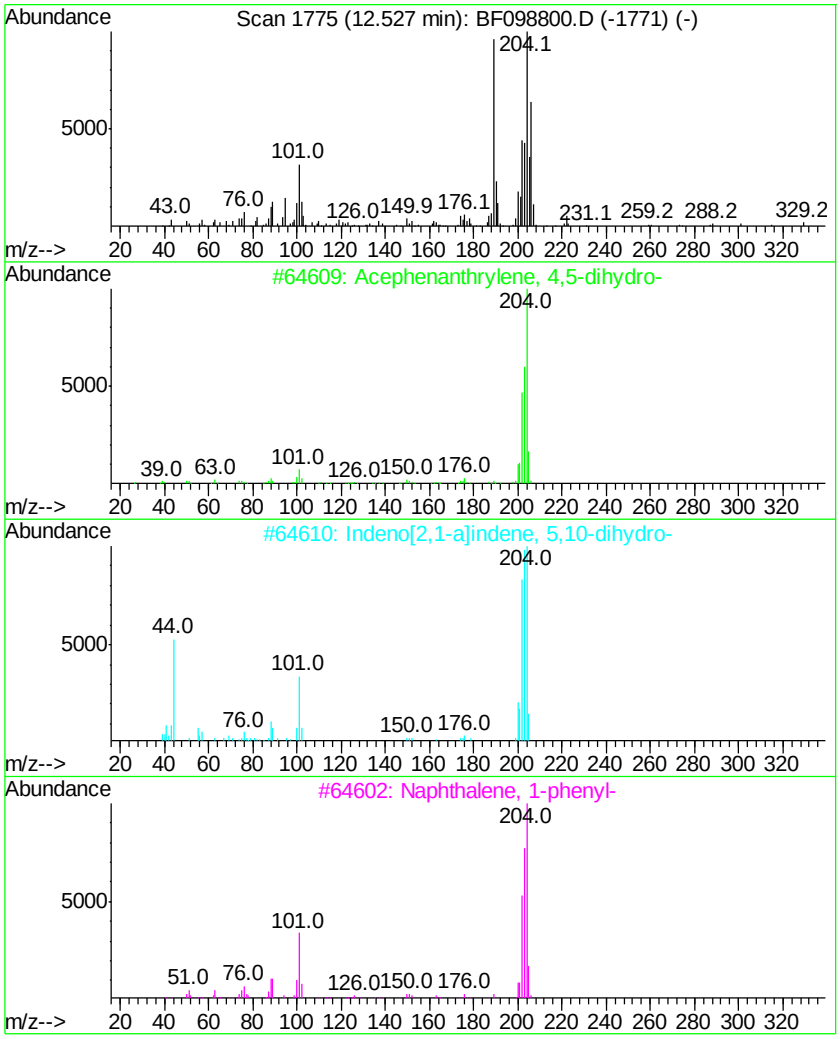
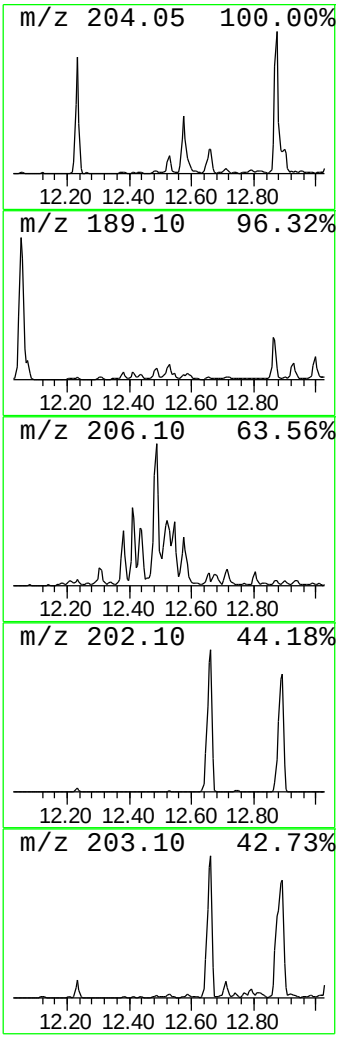
Peak Number 10 Acephenanthrylene, 4,5-dihy... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	2.37 ng	185044	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	55
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	46
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	45
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	43
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43





Library Search Compound Report

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Acq On : 25 Sep 2017 23:27
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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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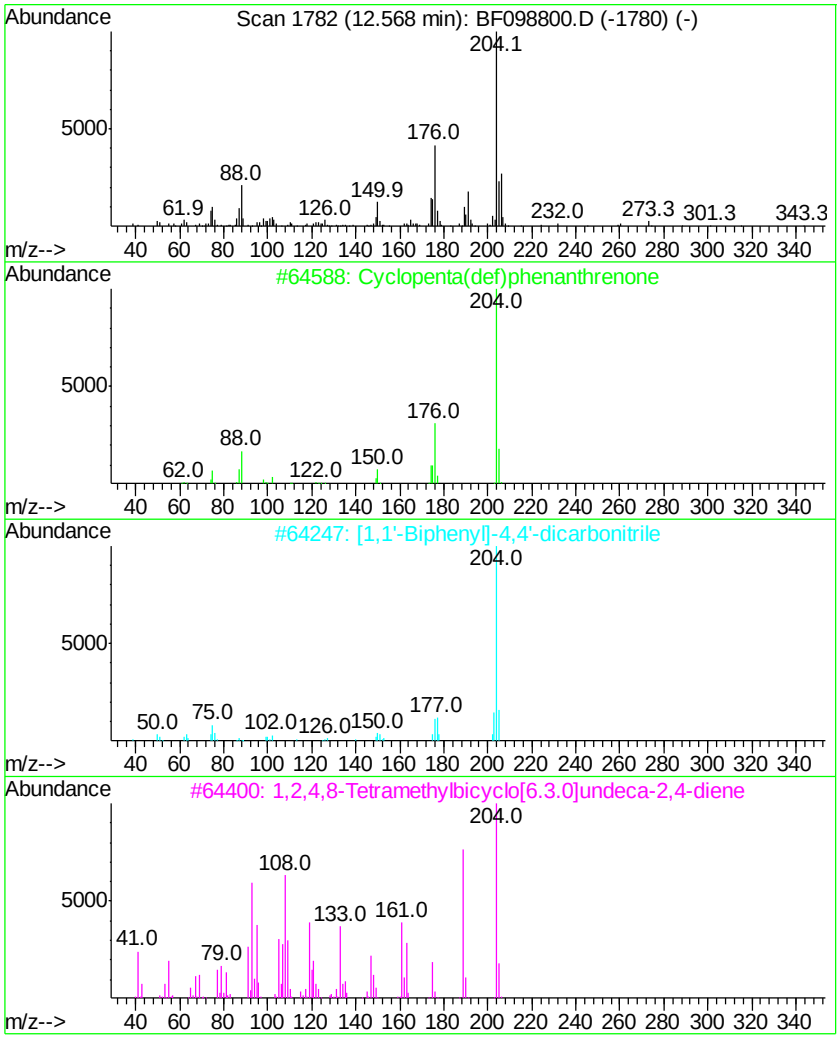
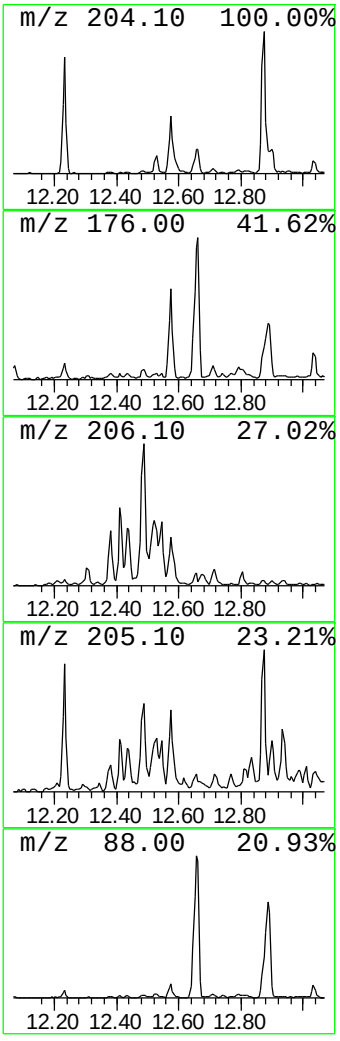
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.57	3.33 ng	260522	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	49
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
4	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	43
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43





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Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

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ClientSampleId : SU-04-092217

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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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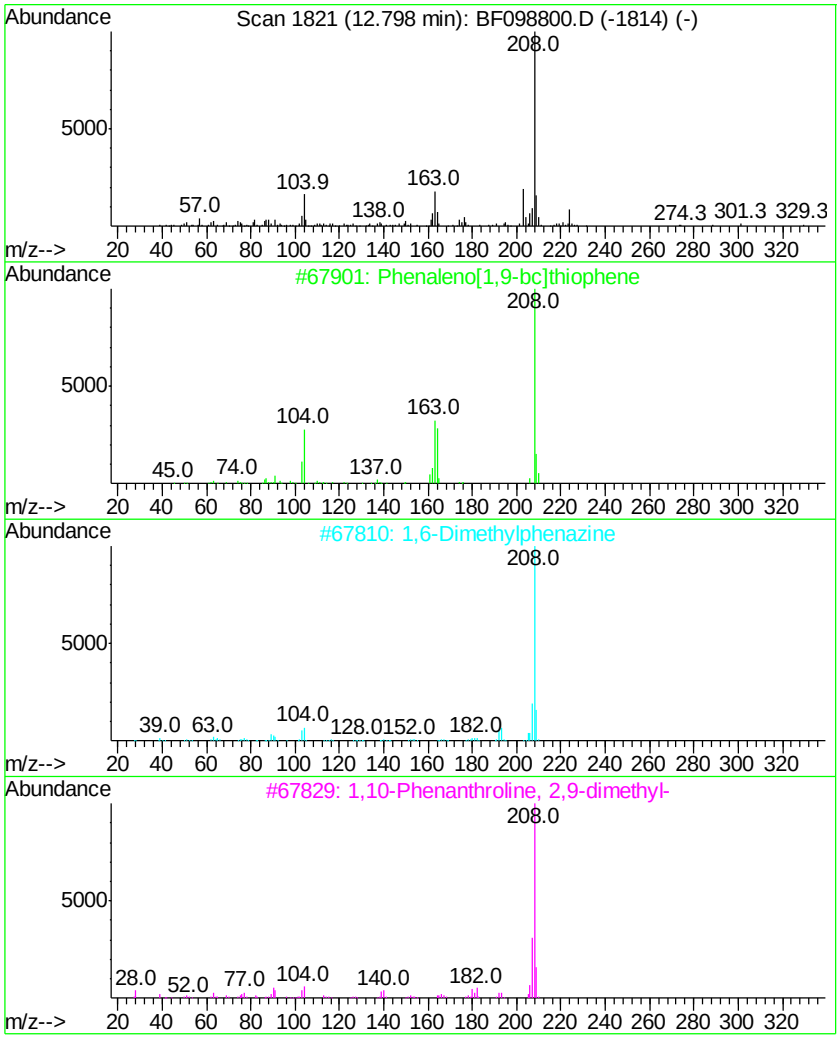
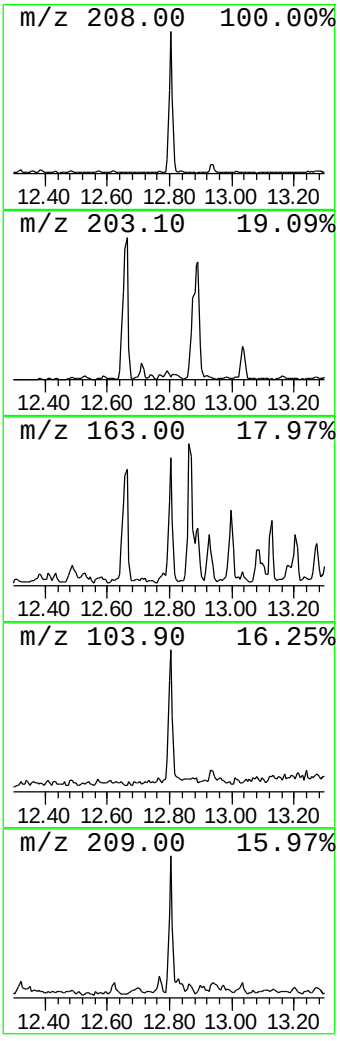
Peak Number 12 Phenaleno[1,9-bc]thiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.80	2.57 ng	372612	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenaleno[1,9-bc]thiophene	208	C14H8S	079965-99-4	83
2	1,6-Dimethylphenazine	208	C14H12N2	058718-43-7	72
3	1,10-Phenanthroline, 2,9-dimethyl-	208	C14H12N2	000484-11-7	64
4	1H-Indazole, 6-methyl-1-phenyl-	208	C14H12N2	1000305-65-6	64
5	Phenanthrene, 9-methoxy-	208	C15H12O	005085-74-5	64





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Sample : I5380-01 50X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
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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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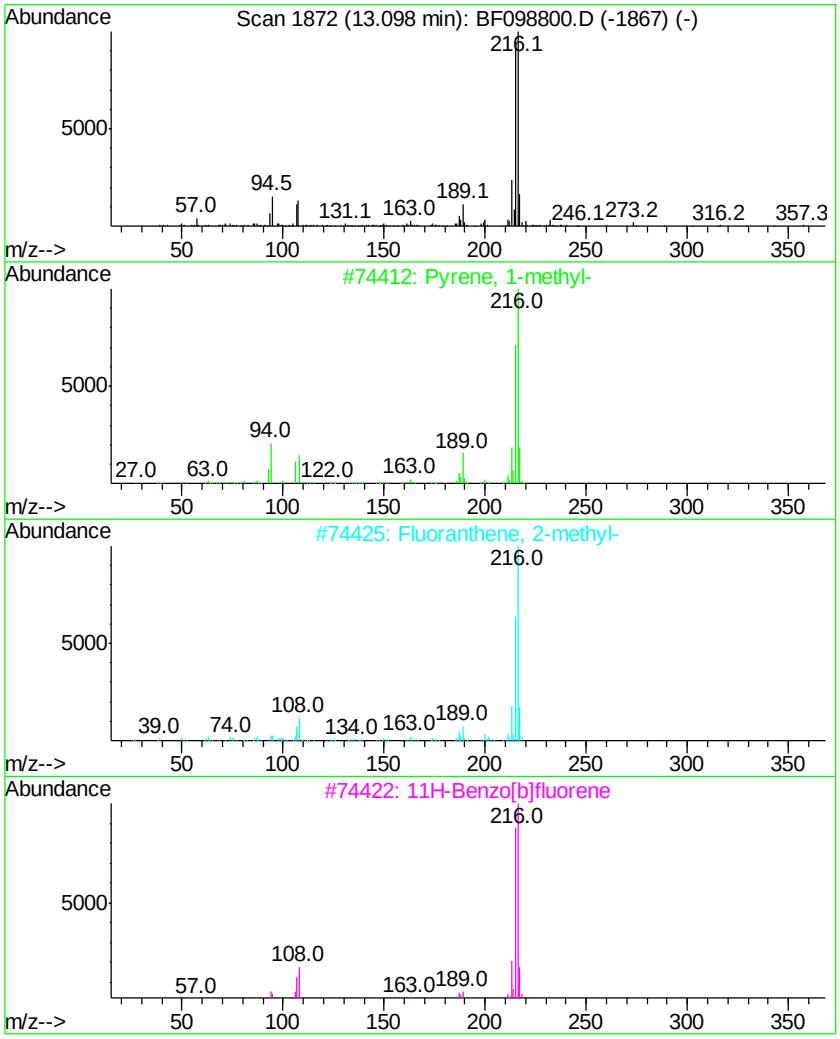
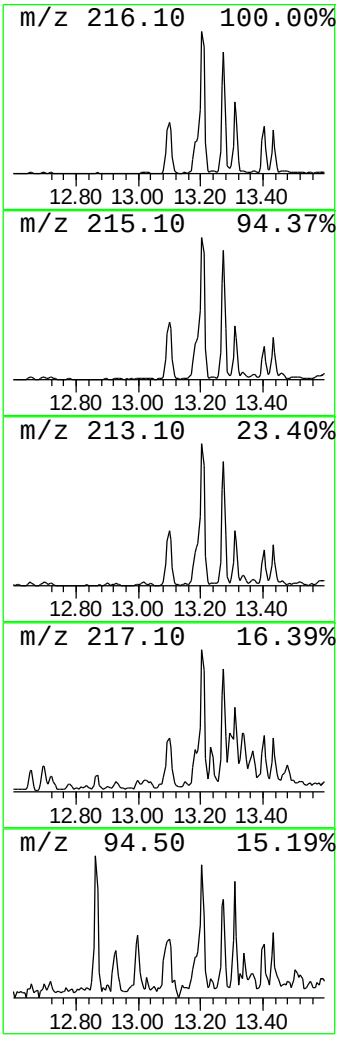
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	3.12 ng	452793	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	74





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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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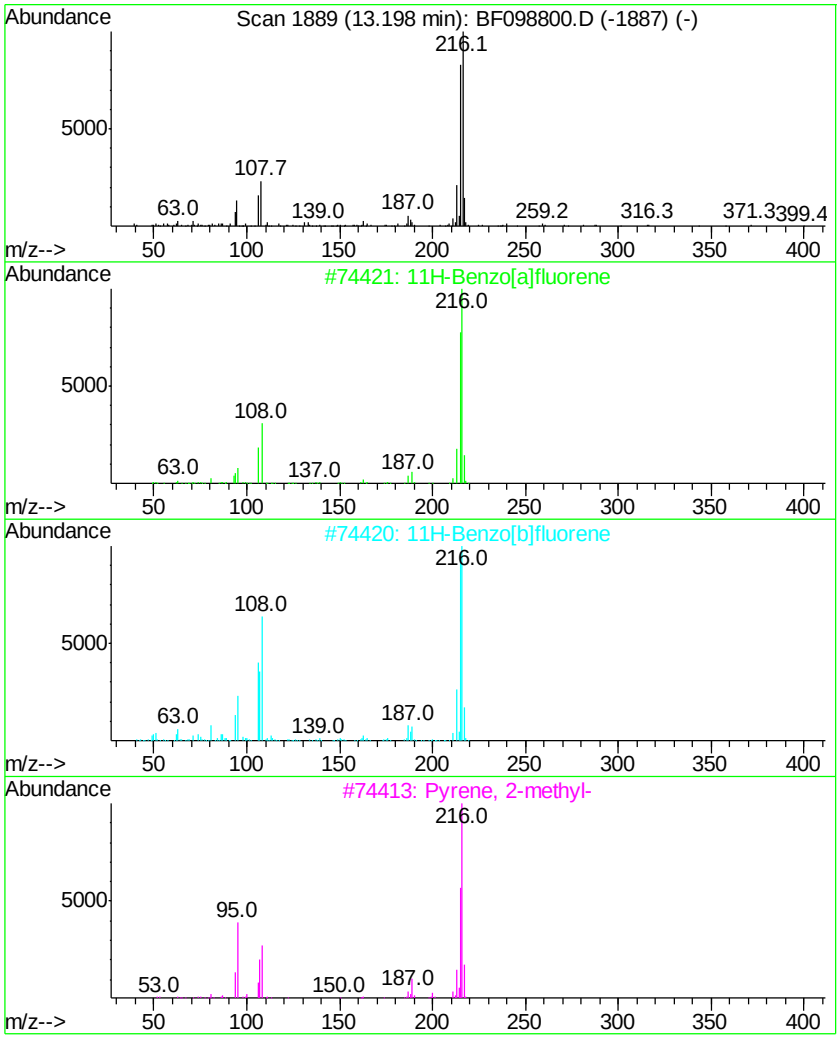
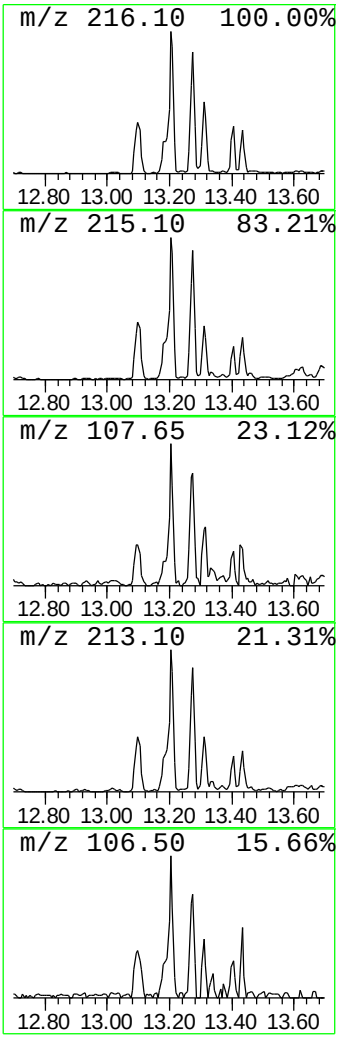
Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	4.33 ng	629198	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Sample : I5380-01 50X
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ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

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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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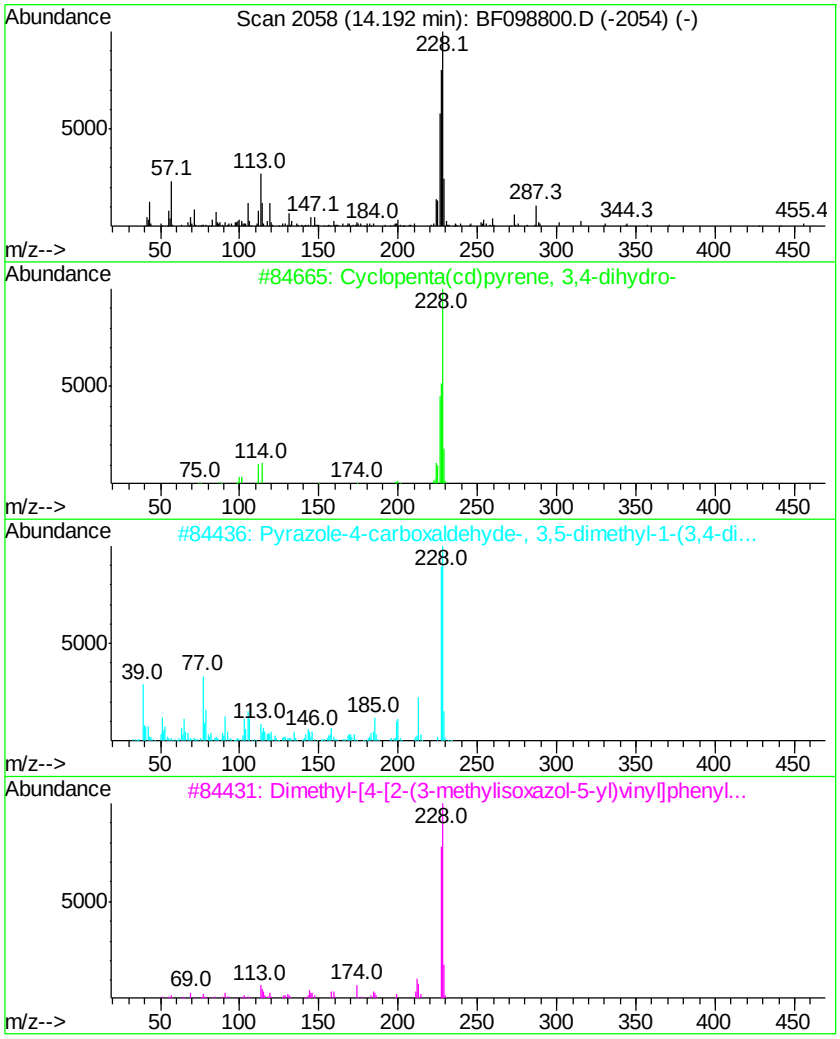
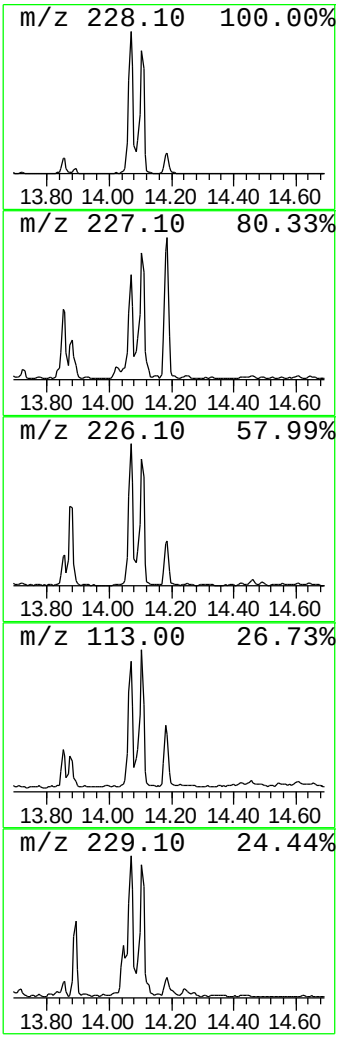
Peak Number 17 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.19	2.77 ng	401952	Chrysene-d12	14.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	55
2	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
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	50
5	9-Borabicyclo[3.3.1]nonane, 9-[(...	228	C14H21BN2	1000162-55-4	38





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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-092217

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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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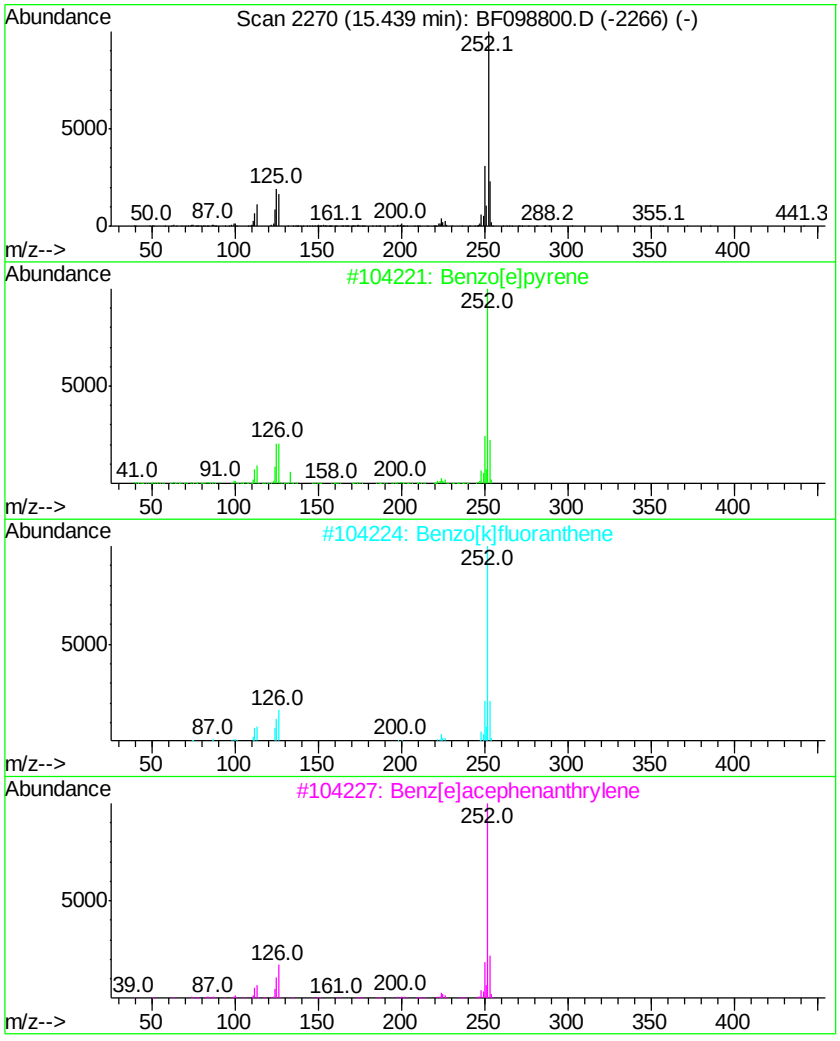
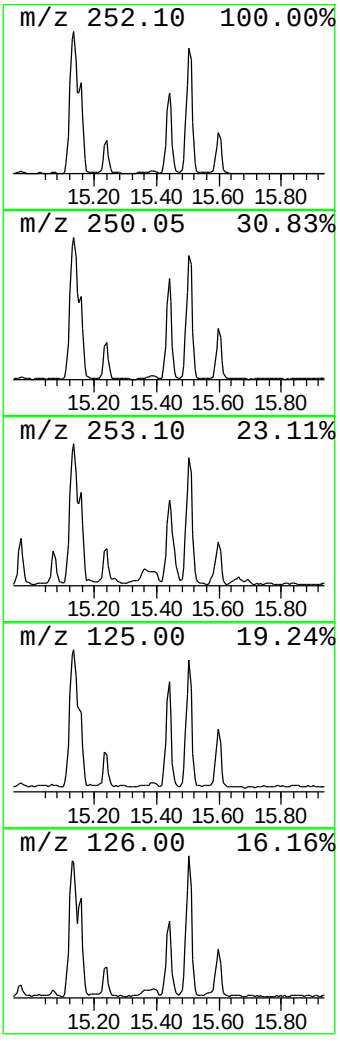
Peak Number 19 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	17.25 ng	822594	Perylene-d12	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
4	Perylene	252	C20H12	000198-55-0	96
5	Benzo[a]pyrene	252	C20H12	000050-32-8	94





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

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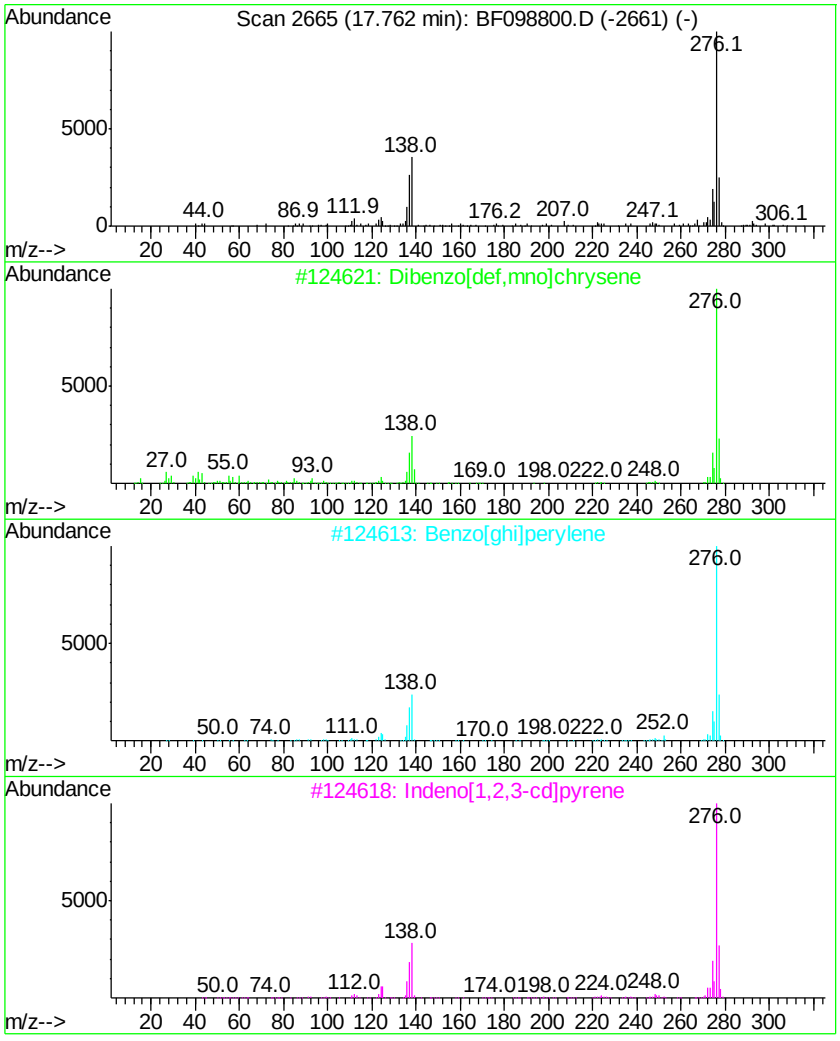
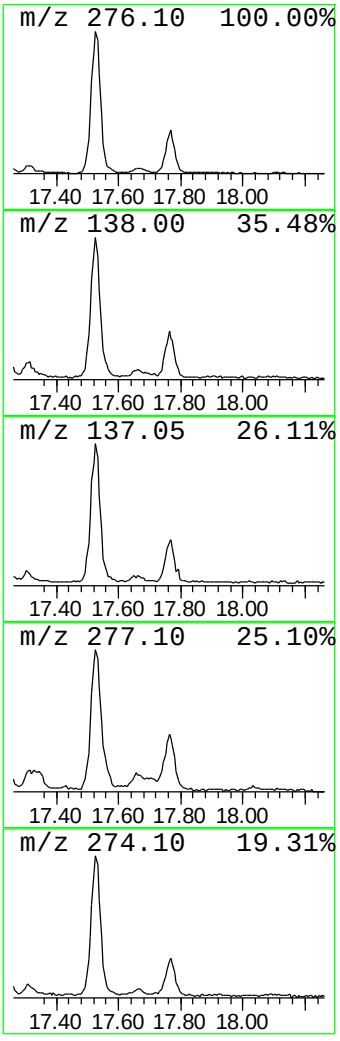
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.76	4.29 ng	204841	Perylene-d12	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	91
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
4	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	49
5	1,2,4-Triazolo[3,4-a]isoquinolin...	291	C18H17N3O	301352-47-6	47





Tentatively Identified Compound (LSC) summary

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Data File : BF098800.D
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Operator : SJ/JU
Sample : I5380-01 50X
Misc :
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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
9H-Fluorene, 2-me...	11.05	2.2	ng	174063	4	11.44	1562410	20.0
Naphtho[2,1-b]thi...	11.33	3.3	ng	258865	4	11.44	1562410	20.0
Phenanthrene, 2-m...	11.94	6.2	ng	481977	4	11.44	1562410	20.0
Anthracene, 1-met...	12.01	3.5	ng	274646	4	11.44	1562410	20.0
4H-Cyclopenta[def...	12.05	11.8	ng	917572	4	11.44	1562410	20.0
Naphthalene, 2-ph...	12.23	4.0	ng	309513	4	11.44	1562410	20.0
Phenanthrene, 2,5...	12.49	3.3	ng	255870	4	11.44	1562410	20.0
Acephenanthrylene...	12.53	2.4	ng	185044	4	11.44	1562410	20.0
Cyclopenta(def)ph...	12.57	3.3	ng	260522	4	11.44	1562410	20.0
Phenaleno[1,9-bc]...	12.80	2.6	ng	372612	5	14.08	2904480	20.0
Pyrene, 1-methyl-	13.10	3.1	ng	452793	5	14.08	2904480	20.0
11H-Benzo[a]fluorene	13.20	4.3	ng	629198	5	14.08	2904480	20.0
Cyclopenta(cd)pyr...	14.19	2.8	ng	401952	5	14.08	2904480	20.0
Benzo[e]pyrene	15.44	17.3	ng	822594	6	15.57	953952	20.0
Dibenzo[def,mno]c...	17.76	4.3	ng	204841	6	15.57	953952	20.0