LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
Data File : BF110937.D
Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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	5.569	589	592	615	rVB	110998	206158	4.47%	0.501%
2	6.575	759	763	778	rBV	138219	261098	5.66%	0.635%
3	6.716	783	787	792	rBV	252095	246274	5.34%	0.599%
4	6.945	822	826	833	rBV	306236	313821	6.80%	0.763%
5	7.098	849	852	866	rVB2	172369	200168	4.34%	0.487%
6	7.516	920	923	942	rBV	85882	143193	3.10%	0.348%
7	8.228	1040	1044	1045	rBV	382530	353261	7.65%	0.859%
8	8.245	1045	1047	1054	rVV	611818	602719	13.06%	1.465%
9	8.298	1054	1056	1074	rVB	31323	53317	1.16%	0.130%
10	8.939	1162	1165	1175	rBV	115581	138380	3.00%	0.336%
11	9.039	1178	1182	1190	rVB	132555	129493	2.81%	0.315%
12	9.298	1222	1226	1233	rBV	243963	227143	4.92%	0.552%
13	9.569	1267	1272	1276	rBV	46926	64368	1.39%	0.156%
14	9.639	1280	1284	1287	rBV	75407	78939	1.71%	0.192%
15	9.757	1301	1304	1312	rVB	47495	62402	1.35%	0.152%
16	9.845	1316	1319	1324	rBV	572227	544468	11.80%	1.323%
17	9.986	1340	1343	1346	rBV	410541	342007	7.41%	0.831%
18	10.016	1346	1348	1355	rVB	364395	333059	7.22%	0.810%
19	10.192	1372	1378	1382	rBV	387913	362763	7.86%	0.882%
20	10.298	1392	1396	1399	rBV	46819	49780	1.08%	0.121%
21	10.392	1407	1412	1414	rBV	68444	75368	1.63%	0.183%
22	10.539	1433	1437	1443	rVB	845890	788721	17.09%	1.917%
23	10.616	1443	1450	1453	rBV5	28059	59492	1.29%	0.145%
24	10.692	1460	1463	1466	rVB	150233	124007	2.69%	0.301%
25	10.780	1472	1478	1483	rBV4	204970	335887	7.28%	0.816%
26	10.863	1490	1492	1496	rBV2	40360	55615	1.20%	0.135%
27	11.086	1523	1530	1533	rBV	127540	142486	3.09%	0.346%
28	11.210	1547	1551	1553	rBV2	59965	63367	1.37%	0.154%
29	11.233	1553	1555	1560	rVV3	61437	77153	1.67%	0.188%
30	11.292	1561	1565	1567	rVV2	76790	88186	1.91%	0.214%
31	11.316	1567	1569	1576	rVV2	69734	123754	2.68%	0.301%
32	11.380	1576	1580	1586	rVB	224709	205463	4.45%	0.499%
33	11.486	1594	1598	1599	rBV	352991	359543	7.79%	0.874%
34	11.516	1599	1603	1606	rVV	3320424	3440640	74.54%	8.363%

LSC Area Percent Report

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Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.563	1606	1611	1615	rVV	1590599	1420597	30.78%	3.453%
36	11.716	1633	1637	1640	rBV	269389	270334	5.86%	0.657%
37	11.768	1644	1646	1648	rVV	102989	77907	1.69%	0.189%
38	11.816	1652	1654	1659	rVV4	50110	65545	1.42%	0.159%
39	11.892	1664	1667	1674	rVB4	31324	50056	1.08%	0.122%
40	11.986	1679	1683	1685	rBV	335412	308671	6.69%	0.750%
41	12.015	1685	1688	1693	rVB	435891	378194	8.19%	0.919%
42	12.063	1693	1696	1699	rBV	190106	170229	3.69%	0.414%
43	12.104	1699	1703	1709	rBV2	878933	1000319	21.67%	2.432%
44	12.274	1729	1732	1737	rVB	330383	295039	6.39%	0.717%
45	12.321	1737	1740	1744	rBV3	105523	109024	2.36%	0.265%
46	12.533	1773	1776	1779	rBV2	158073	170377	3.69%	0.414%
47	12.598	1785	1787	1789	rVB	62497	48169	1.04%	0.117%
48	12.639	1789	1794	1798	rVB2	113480	145384	3.15%	0.353%
49	12.721	1801	1808	1810	rBV	3893826	4615827	100.00%	11.220%
50	12.774	1813	1817	1819	rVB2	63205	65001	1.41%	0.158%
51	12.804	1819	1822	1827	rBV	693947	589197	12.76%	1.432%
52	12.857	1827	1831	1833	rBV	156815	153115	3.32%	0.372%
53	12.880	1833	1835	1838	rVB	65748	60273	1.31%	0.147%
54	12.951	1838	1847	1850	rBV2	3331154	4185967	90.69%	10.175%
55	12.980	1850	1852	1857	rVB	164381	172604	3.74%	0.420%
56	13.057	1861	1865	1869	rBV2	435643	460690	9.98%	1.120%
57	13.104	1870	1873	1876	rVB	144428	136173	2.95%	0.331%
58	13.145	1876	1880	1885	rBV2	208676	361244	7.83%	0.878%
59	13.192	1885	1888	1892	rBV	94270	109868	2.38%	0.267%
60	13.239	1892	1896	1897	rBV3	174186	198508	4.30%	0.483%
61	13.262	1897	1900	1904	rVB	637191	660732	14.31%	1.606%
62	13.327	1908	1911	1914	rVV	613875	561182	12.16%	1.364%
63	13.368	1914	1918	1924	rVB2	271457	373842	8.10%	0.909%
64	13.421	1924	1927	1931	rBV2	55553	87802	1.90%	0.213%
65	13.462	1931	1934	1936	rVV	140088	133314	2.89%	0.324%
66	13.492	1936	1939	1944	rVV2	173965	209241	4.53%	0.509%
67	13.568	1948	1952	1955	rBV4	38183	61403	1.33%	0.149%
68	13.662	1965	1968	1970	rBV2	52287	60183	1.30%	0.146%
69	13.745	1979	1982	1985	rBV3	51949	76476	1.66%	0.186%
70	13.780	1985	1988	1991	rVB	124718	122158	2.65%	0.297%
71	13.886	2003	2006	2008	rBV	220850	217299	4.71%	0.528%

LSC Area Percent Report

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Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.910	2008	2010	2013	rVV	352631	287658	6.23%	0.699%
73	13.939	2013	2015	2022	rVB3	323442	443901	9.62%	1.079%
74	13.992	2022	2024	2030	rVB	155166	167127	3.62%	0.406%
75	14.057	2030	2035	2041	rBV2	92988	180489	3.91%	0.439%
76	14.139	2042	2049	2052	rBV2	1986361	2841874	61.57%	6.908%
77	14.174	2052	2055	2058	rVB	1676234	1409694	30.54%	3.427%
78	14.251	2065	2068	2070	rBV2	134450	122676	2.66%	0.298%
79	14.298	2073	2076	2080	rVV	247970	268866	5.82%	0.654%
80	14.339	2080	2083	2084	rVV	111386	99626	2.16%	0.242%
81	14.368	2084	2088	2091	rVB2	139780	194794	4.22%	0.473%
82	14.527	2111	2115	2117	rBV	180190	188734	4.09%	0.459%
83	14.557	2118	2120	2123	rVB2	131078	108879	2.36%	0.265%
84	14.627	2130	2132	2135	rBV2	98970	79319	1.72%	0.193%
85	14.656	2135	2137	2139	rBV	122990	123195	2.67%	0.299%
86	15.051	2202	2204	2209	rVB	92138	93636	2.03%	0.228%
87	15.227	2228	2234	2237	rBV	1015540	1736384	37.62%	4.221%
88	15.339	2249	2253	2259	rBV	217422	266278	5.77%	0.647%
89	15.421	2265	2267	2269	rBV2	56702	58451	1.27%	0.142%
90	15.545	2284	2288	2295	rVB	516785	638824	13.84%	1.553%
91	15.621	2295	2301	2307	rVV	826684	1212486	26.27%	2.947%
92	15.674	2307	2310	2313	rVV	167116	207261	4.49%	0.504%
93	15.709	2313	2316	2327	rVB	253017	382361	8.28%	0.929%
94	17.268	2575	2581	2588	rVB	367540	732208	15.86%	1.780%
95	17.756	2658	2664	2673	rVB	225579	460590	9.98%	1.120%

Sum of corrected areas: 41139748

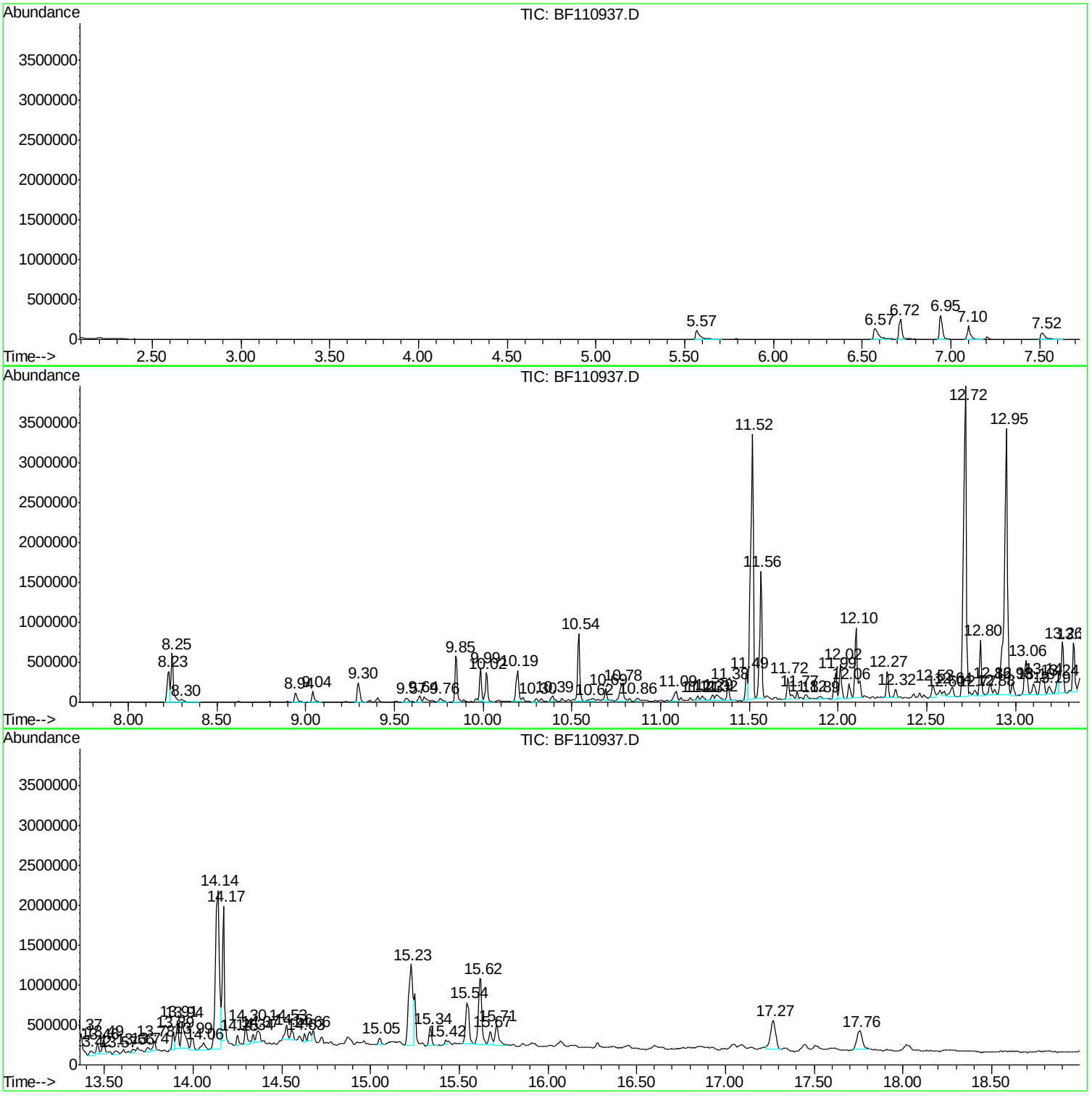
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
Data File : BF110937.D
Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
Data File : BF110937.D
Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

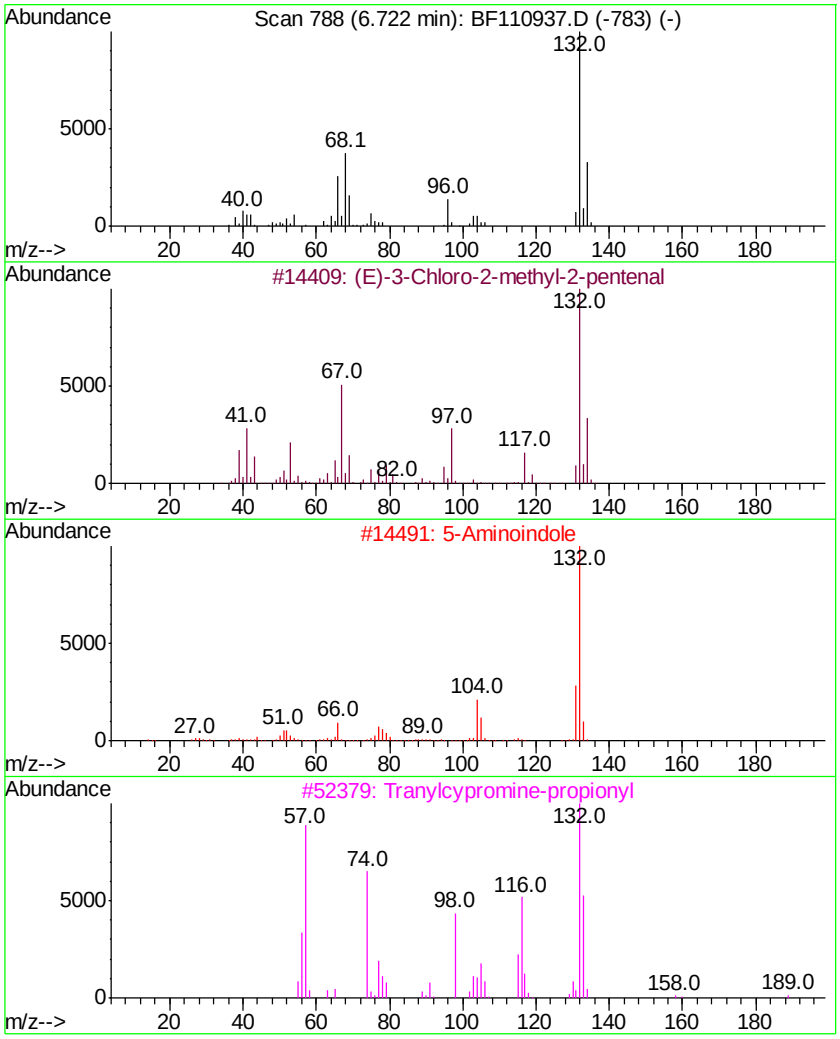
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

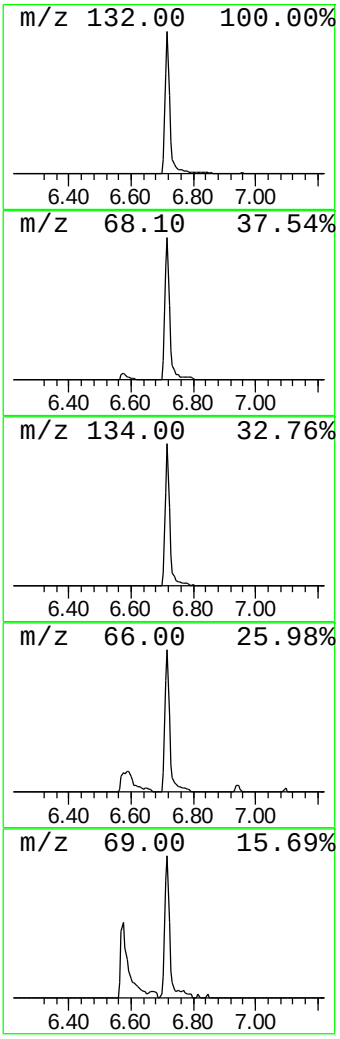
****

Peak Number 1 unknown6.72 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	15.70 ng	246274	1,4-Dichlorobenzene-d4	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	9
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5	Xenon	132	Xe	007440-63-3	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
Data File : BF110937.D
Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

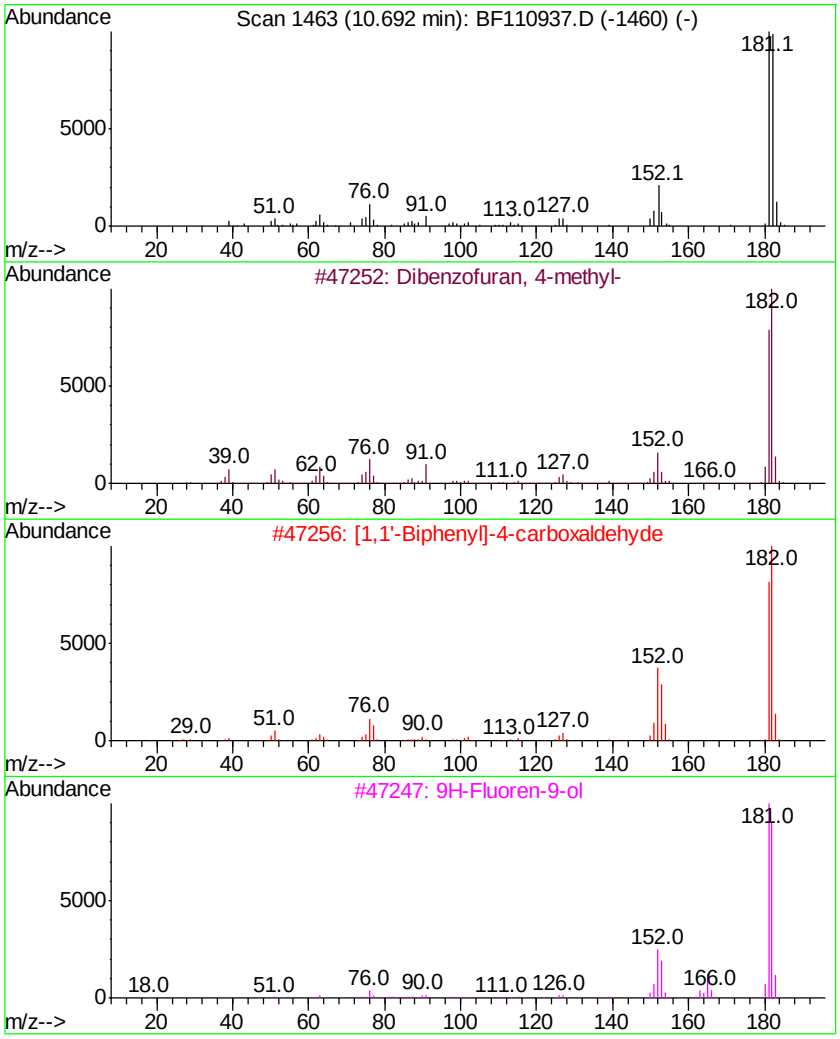
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

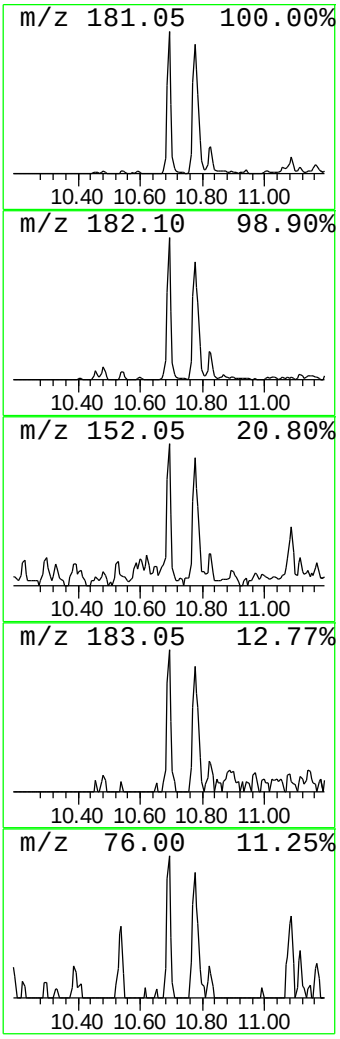
****

Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.69	7.25 ng	124007	Acenaphthene-d10	9.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	91
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
5	9H-Xanthene	182	C13H10O	000092-83-1	64





Library Search Compound Report

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Data File : BF110937.D
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Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

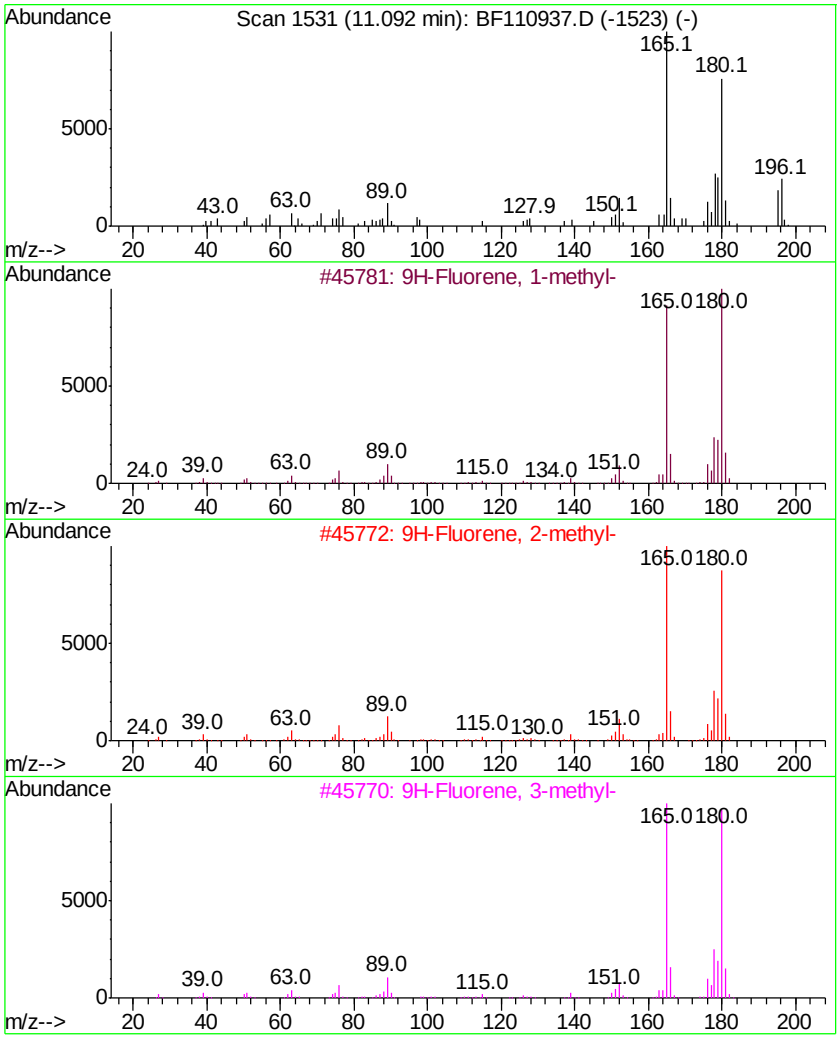
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

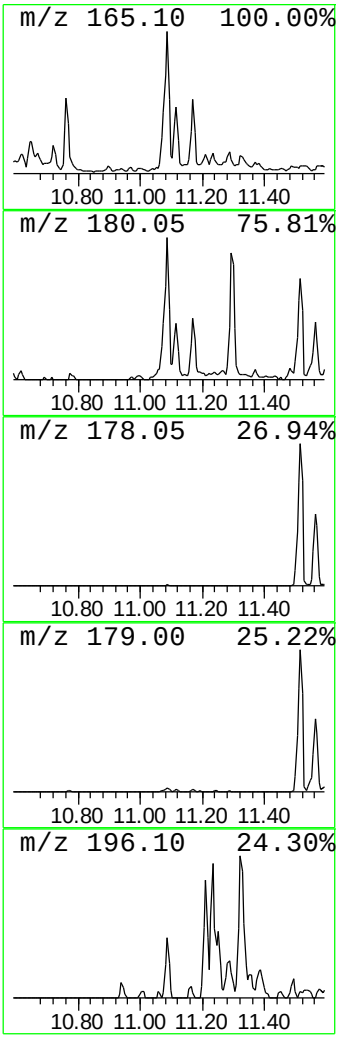
****

Peak Number 4 9H-Fluorene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	7.93 ng	142486	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	89
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76





Library Search Compound Report

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Operator : JU/SJ
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Misc :
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Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

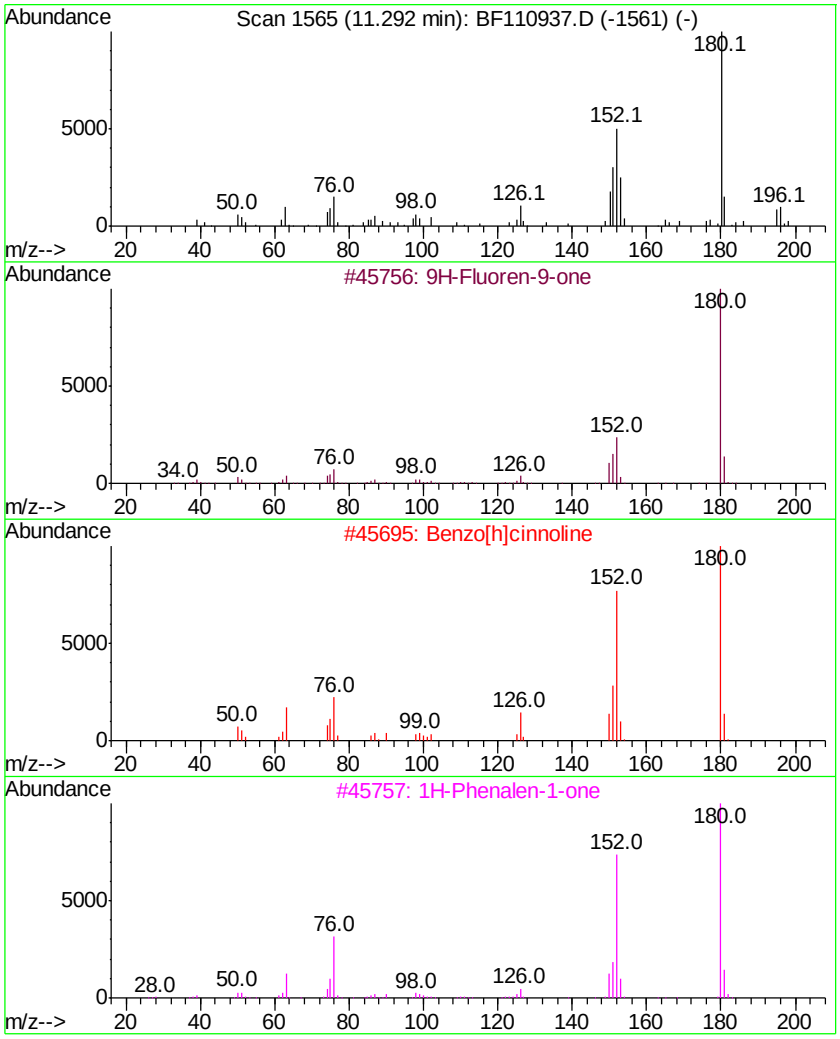
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

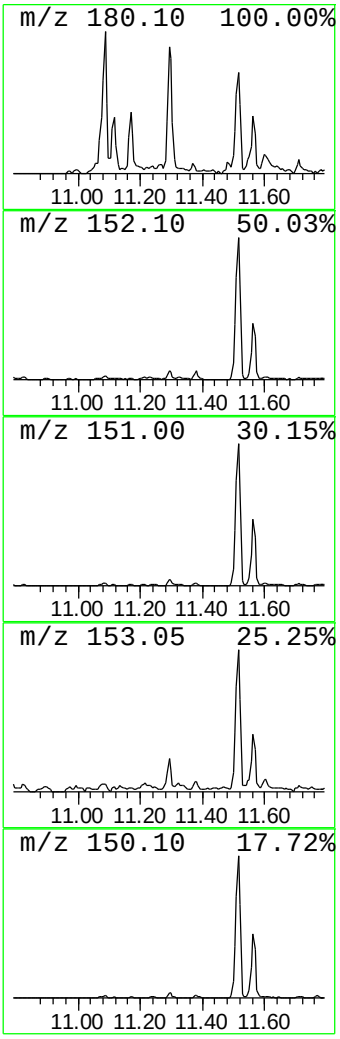
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	4.91 ng	88186	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	74
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	59
4	1,7-Phenanthroline	180	C12H8N2	000230-46-6	52
5	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112118\
Data File : BF110937.D
Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

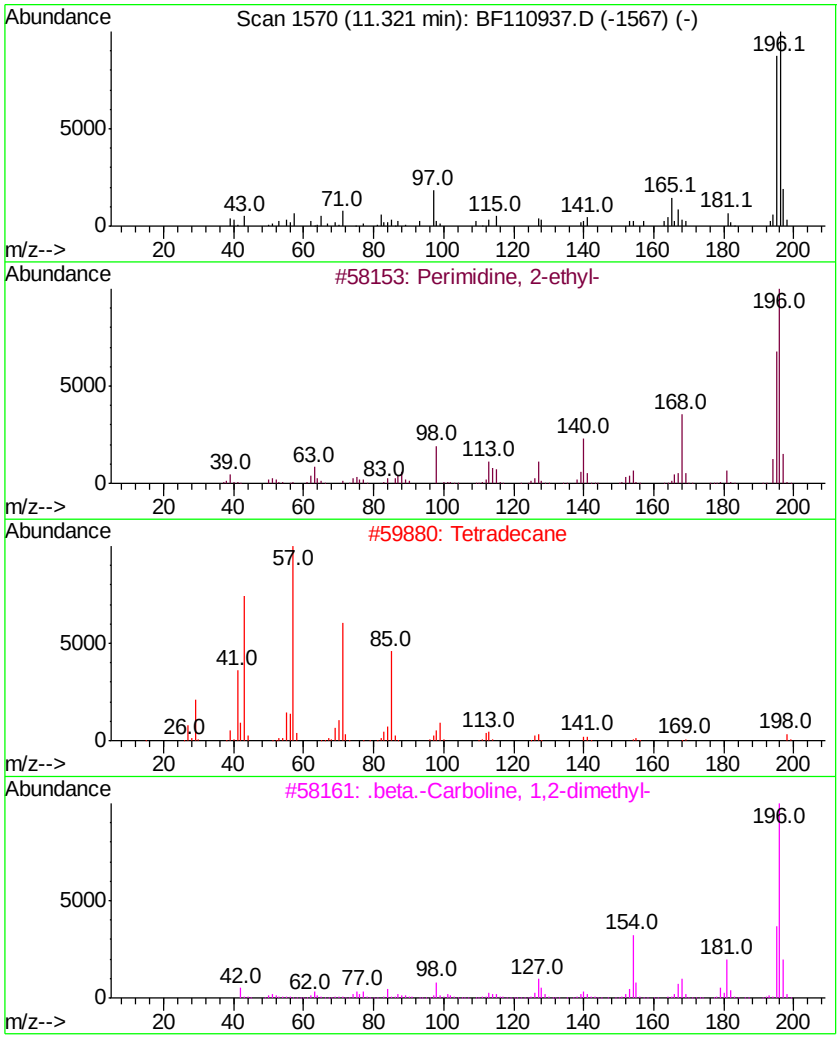
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

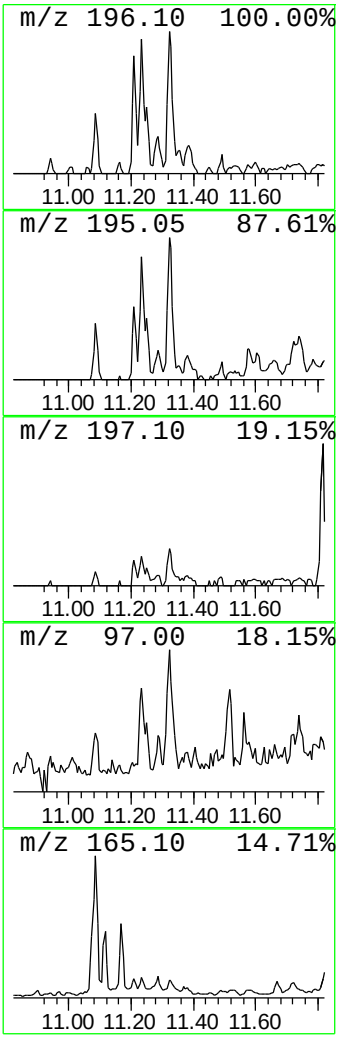
****

Peak Number 6 unknown11.32 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.32	6.88 ng	123754	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perimidine, 2-ethyl-	196	C13H12N2	028478-13-9	46
2	Tetradecane	198	C14H30	000629-59-4	43
3	.beta.-Carboline, 1,2-dimethyl-	196	C13H12N2	109847-05-4	30
4	2-Amino-4,5-dihydro-7H-thieno[2,...	196	C8H8N2S2	037123-75-4	30
5	Cyclohexene, 1-(trimethylsilylox...	196	C11H20OSi	078828-42-9	30





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Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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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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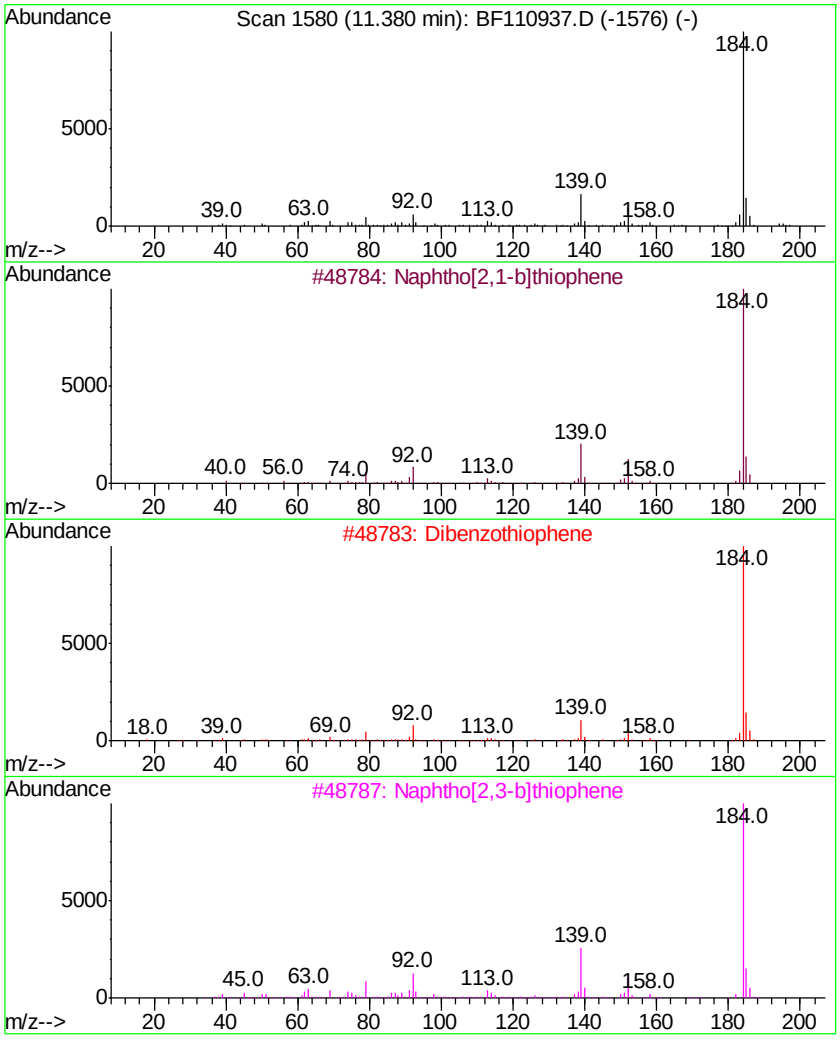
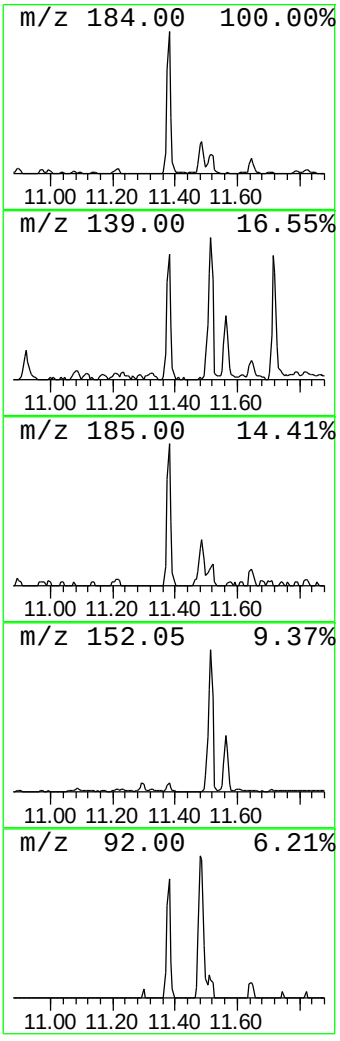
Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.38	11.43 ng	205463	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	97
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Library Search Compound Report

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Misc :
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ClientSampleId : DTW-02(11-13)

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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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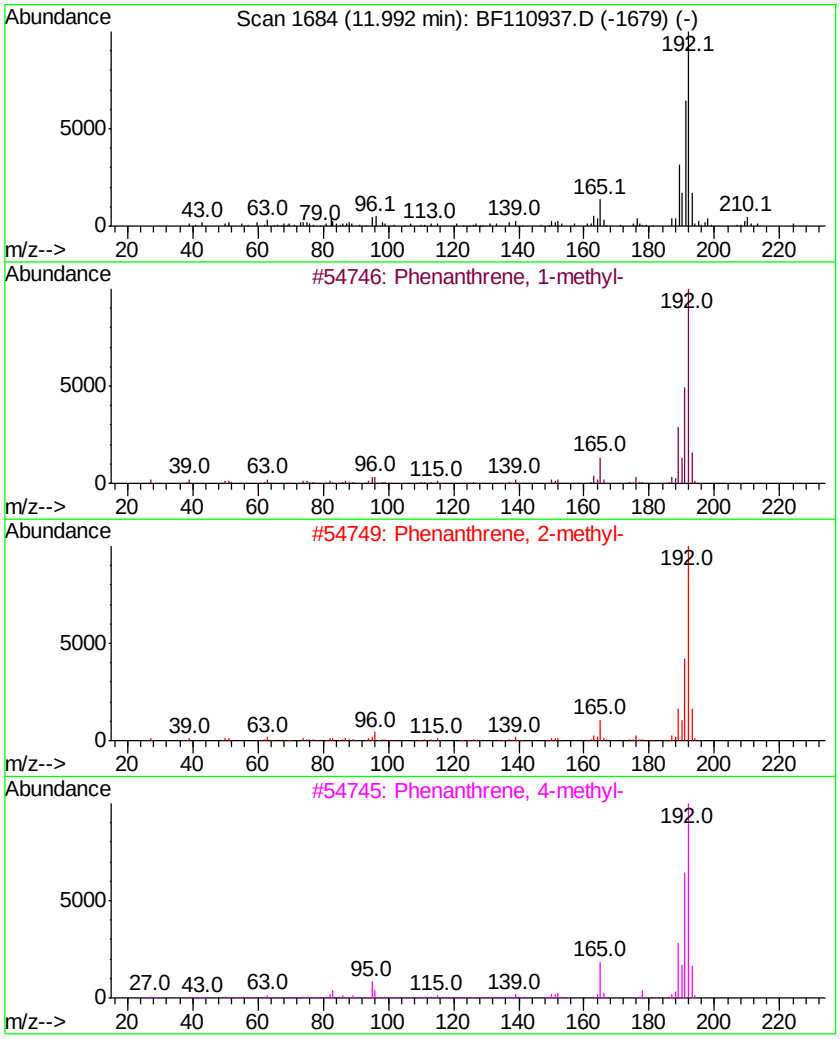
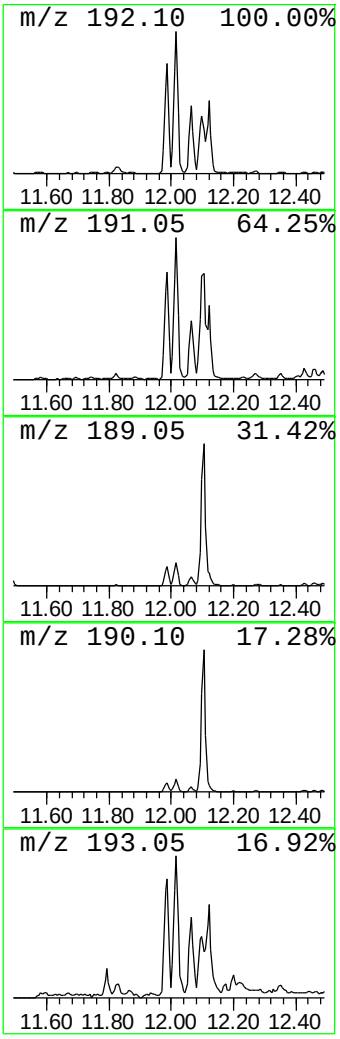
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	17.17 ng	308671	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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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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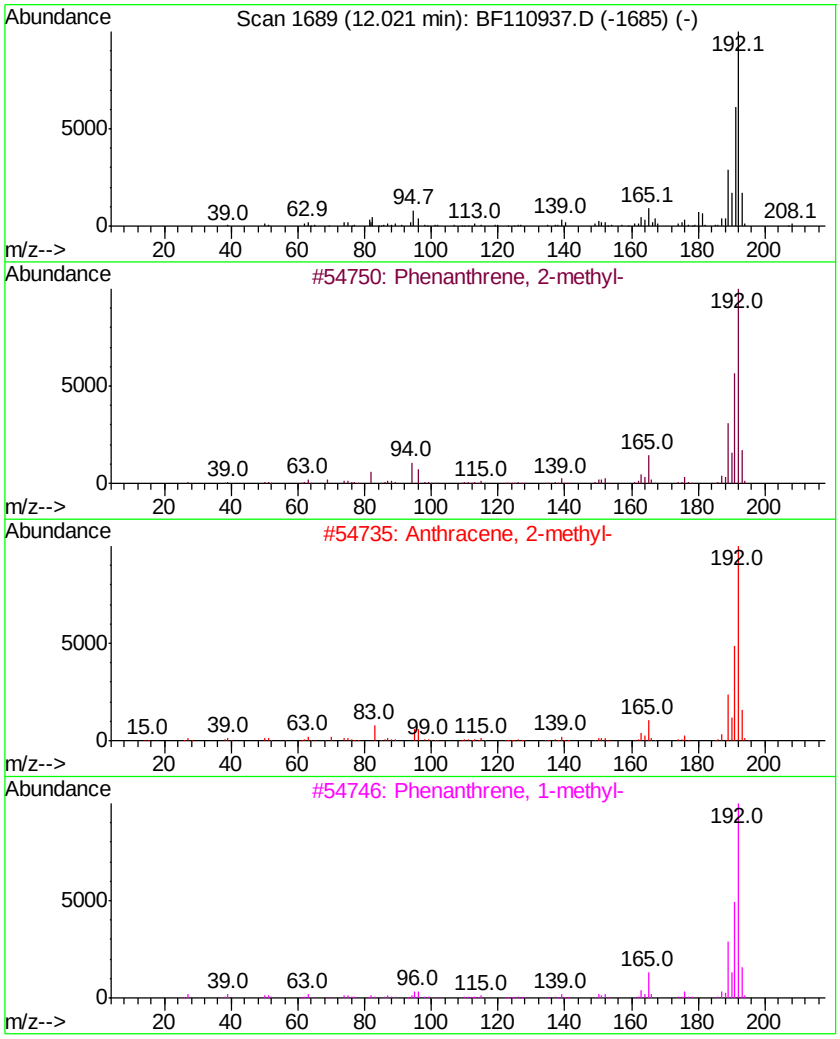
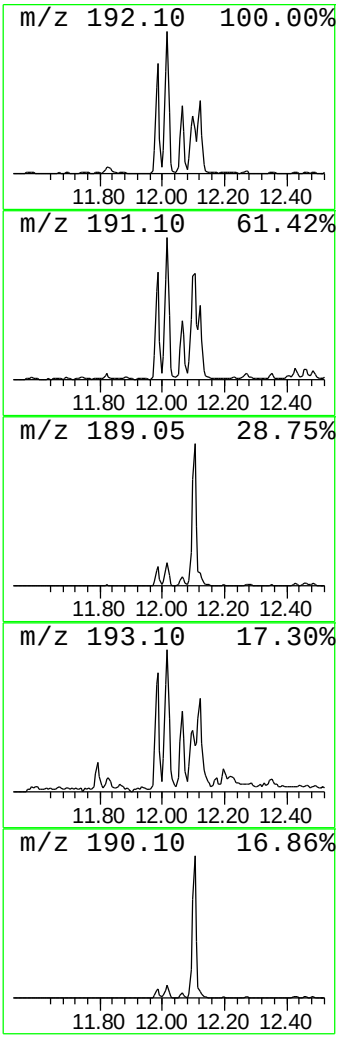
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	21.04 ng	378194	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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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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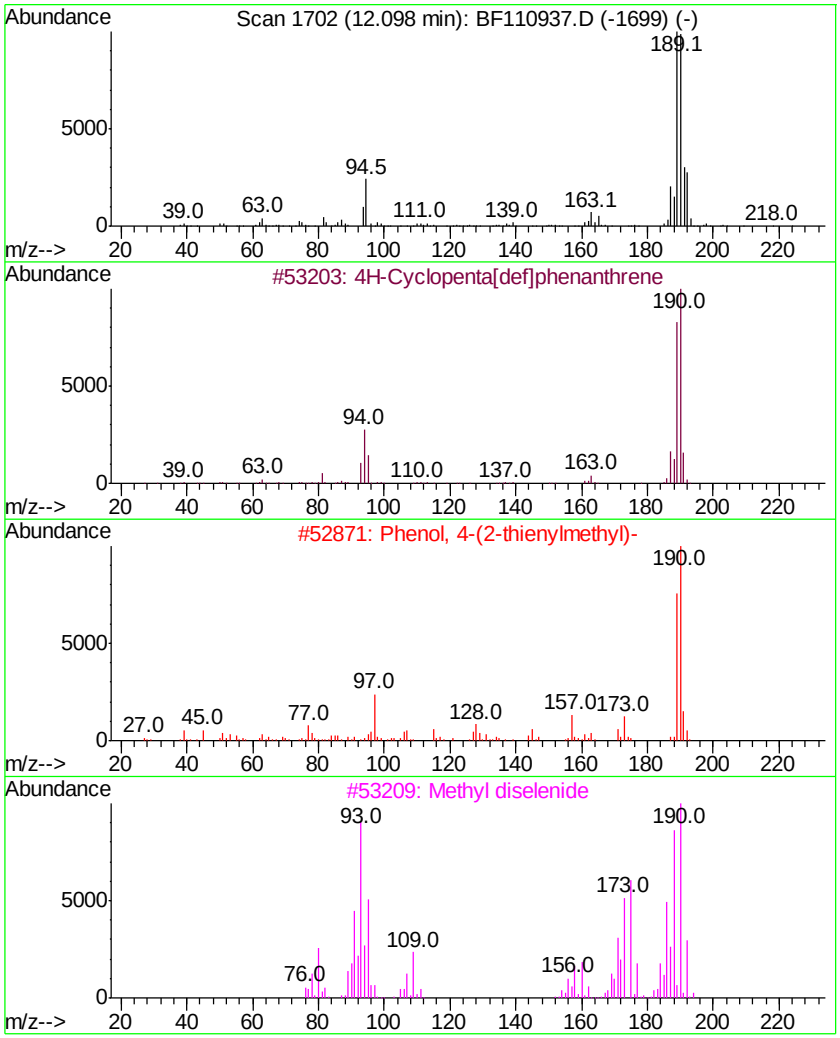
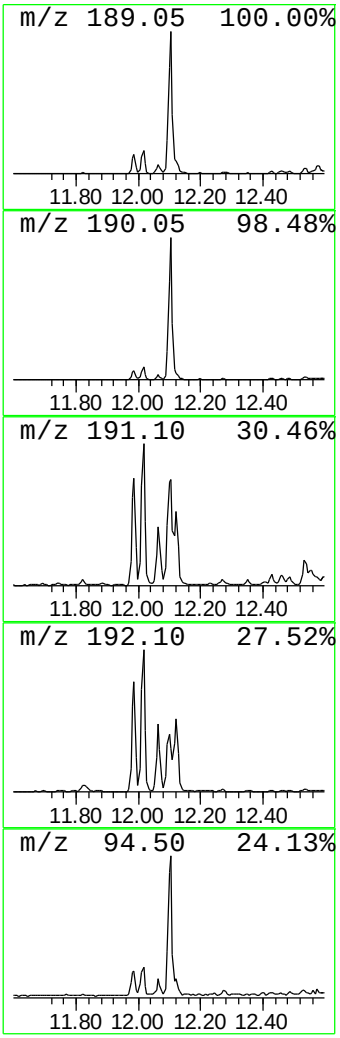
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	55.64 ng	1000320	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	Phenol, 4-(2-thienylmethyl)-	190	C11H10OS	091680-55-6	59
3	Methyl diselenide	190	C2H6Se2	007101-31-7	55
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17





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Misc :
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ClientSampleId : DTW-02(11-13)

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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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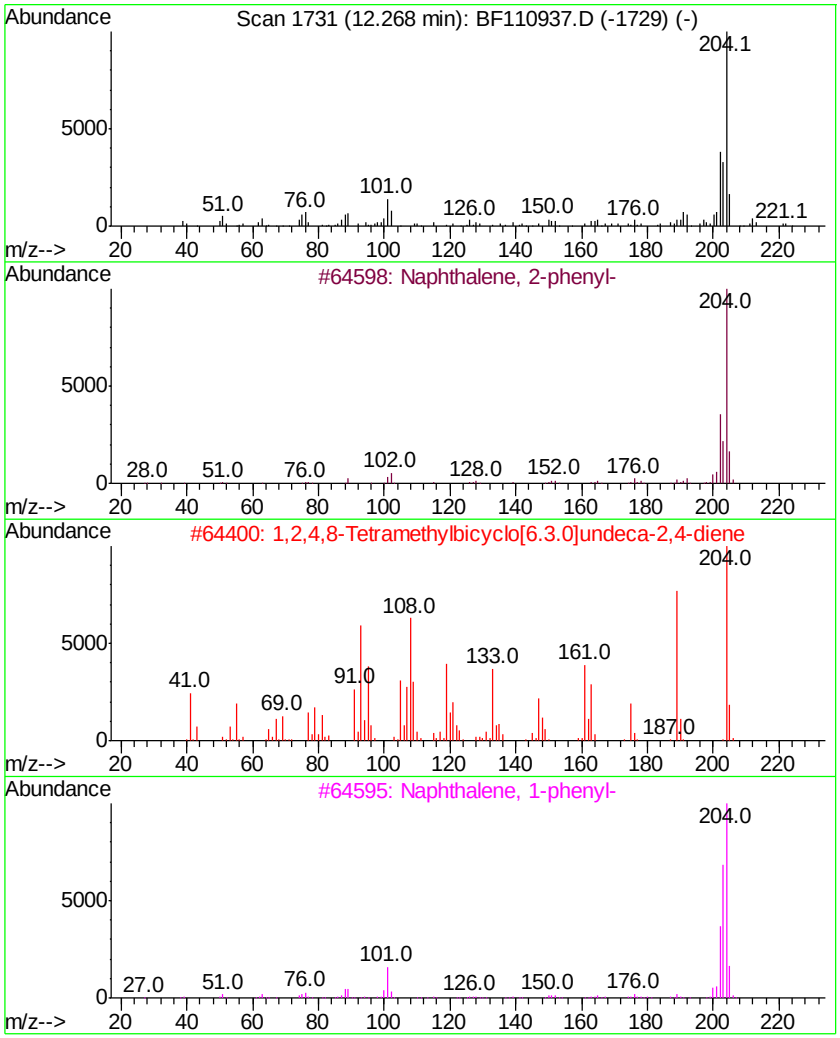
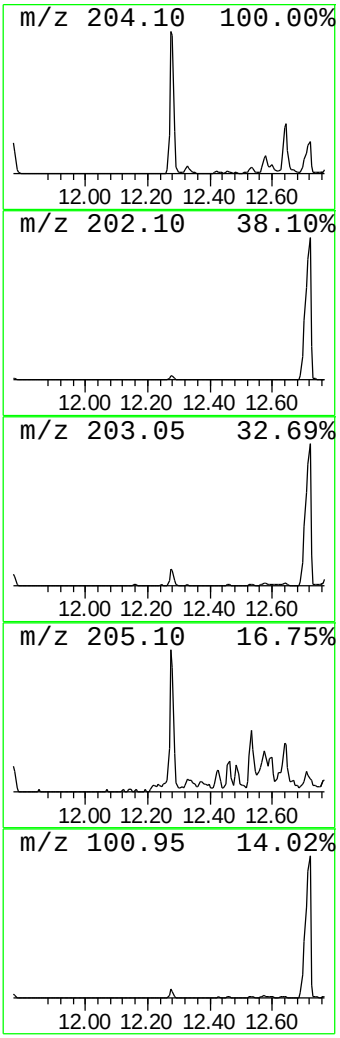
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	16.41 ng	295039	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	80
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64





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Misc :
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ClientSampleId : DTW-02(11-13)

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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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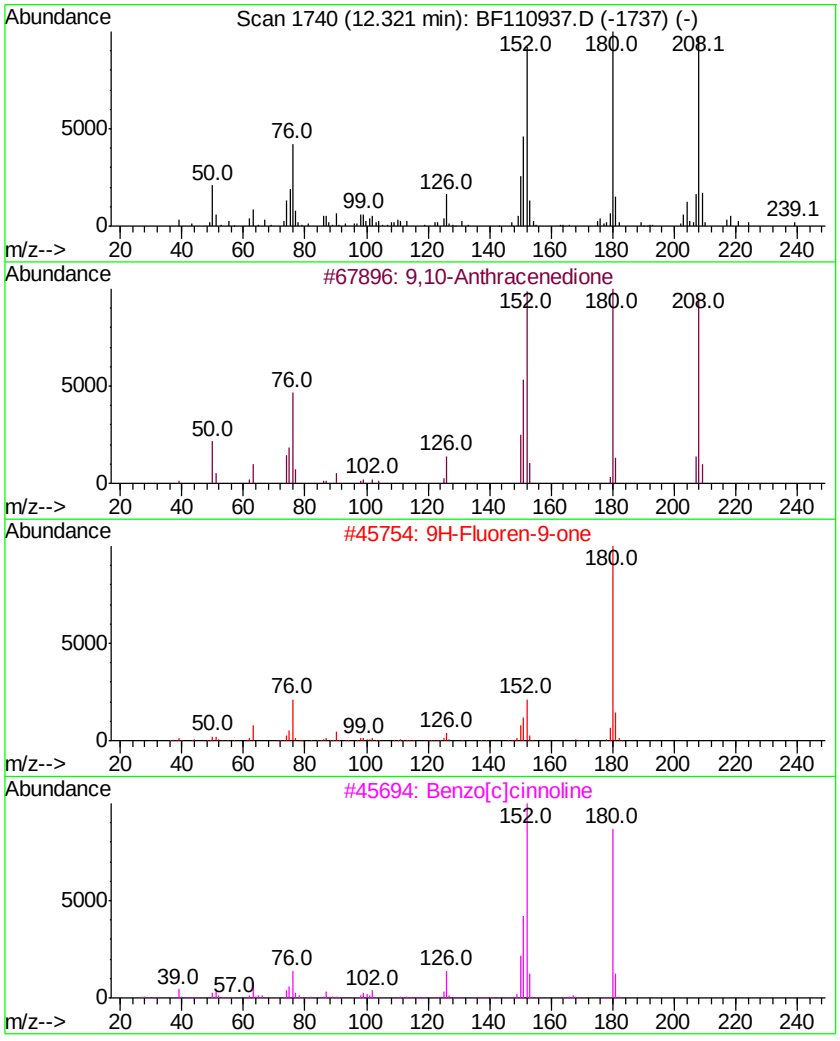
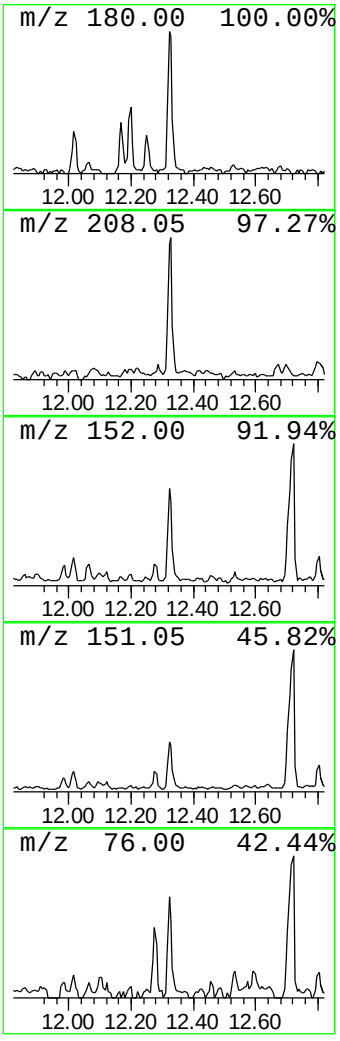
Peak Number 13 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	6.06 ng	109024	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	92
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	70
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53





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Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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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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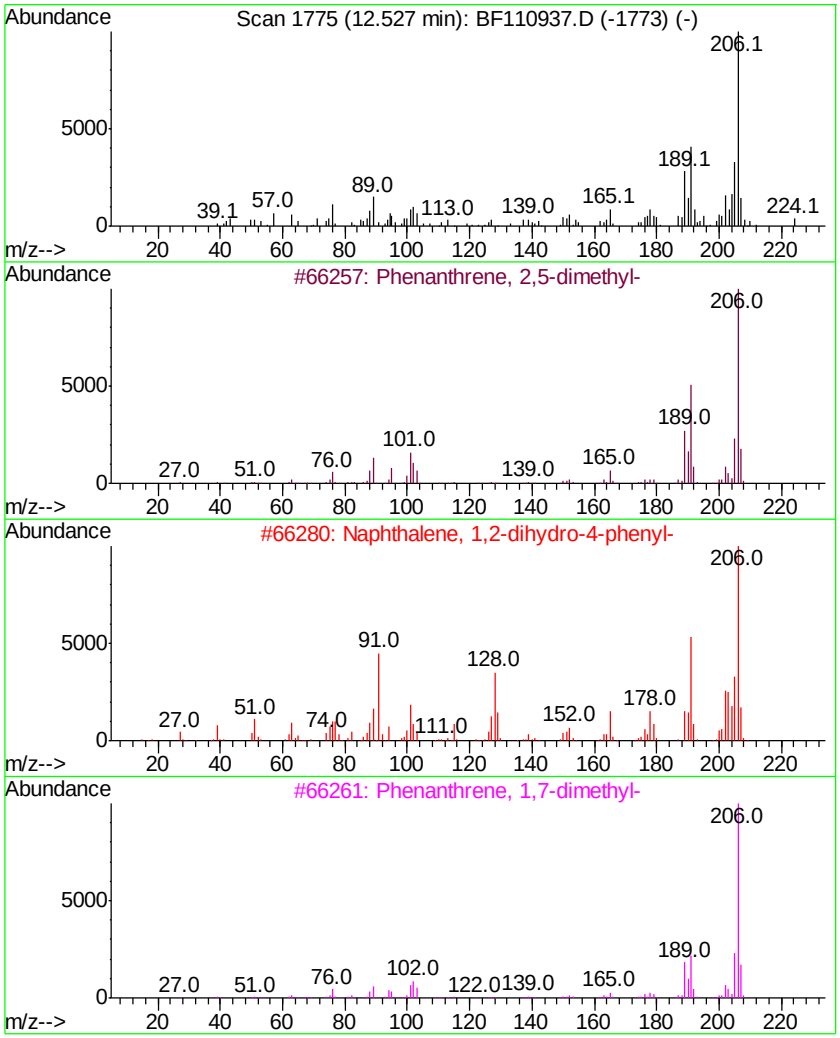
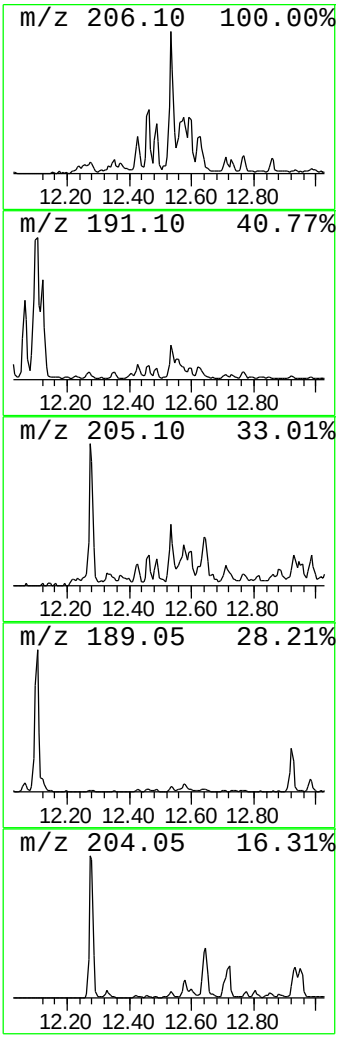
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	9.48 ng	170377	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





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Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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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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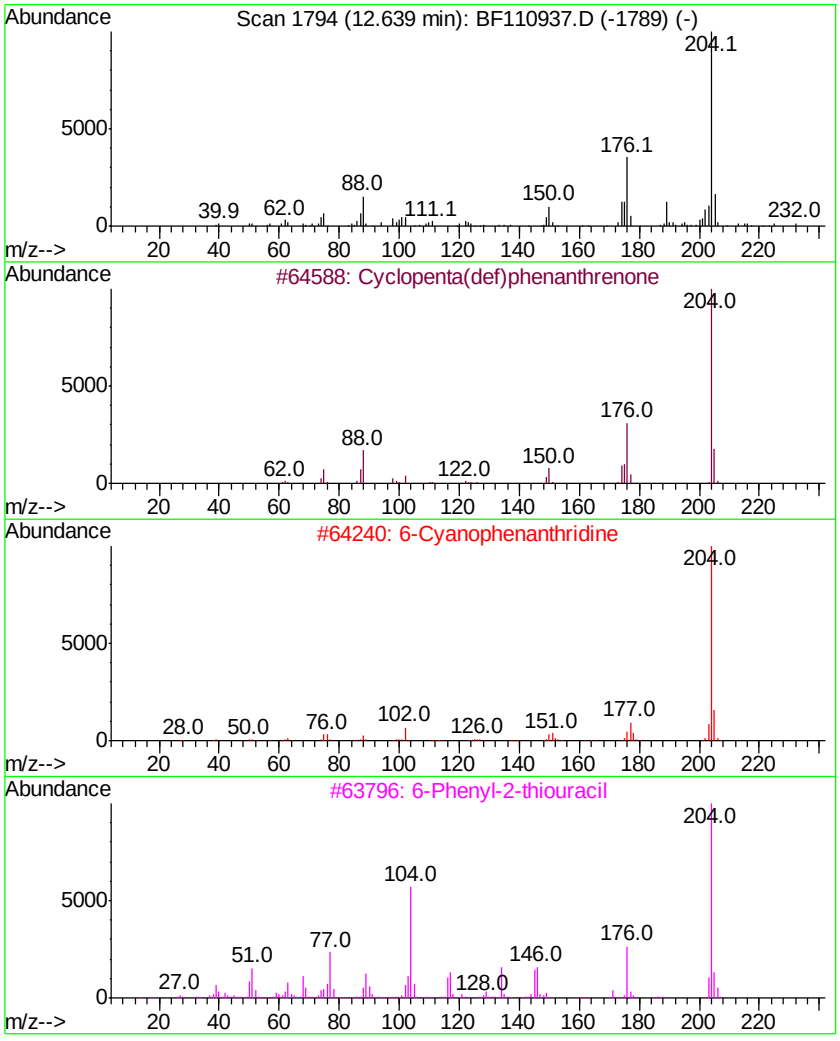
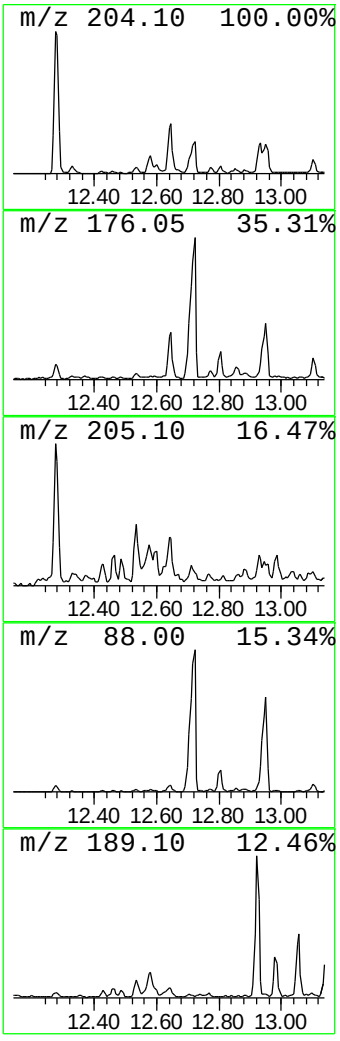
Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	8.09 ng	145384	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	53
3	6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	53
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
5	3'-Carboxybenzo[1',2',-b]-1,4-di...	204	C11H12N2O2	138023-41-3	52





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Misc :
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ClientSampleId : DTW-02(11-13)

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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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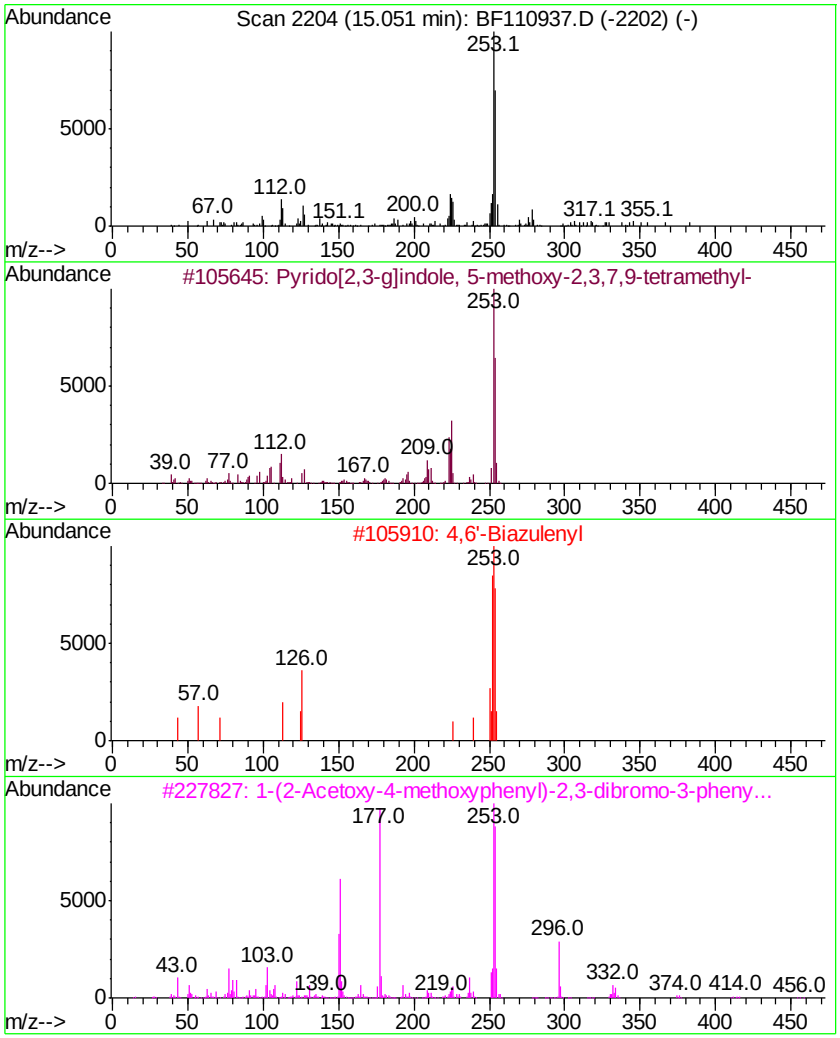
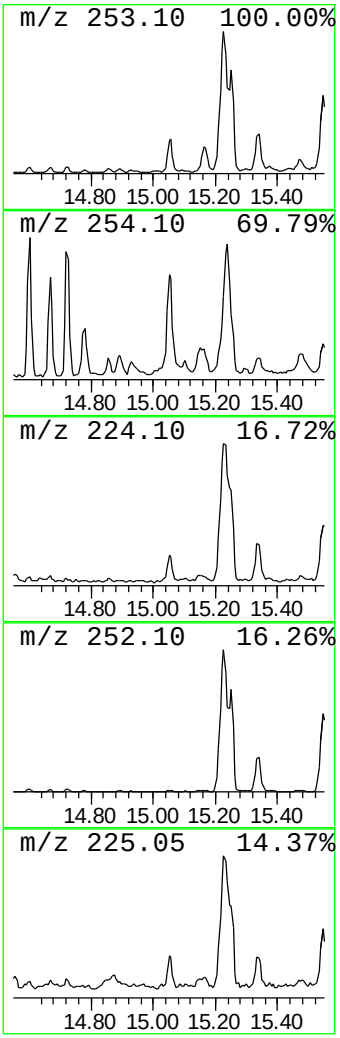
Peak Number 17 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	9.04 ng	93636	Perylene-d12	15.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	72
2	4,6'-Biazulenyl	254	C20H14	094154-49-1	64
3	1-(2-Acetoxy-4-methoxyphenyl)-2,...	454	C18H16Br2O4	1000243-60-3	64
4	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	62
5	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	59





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Misc :
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ClientSampleId : DTW-02(11-13)

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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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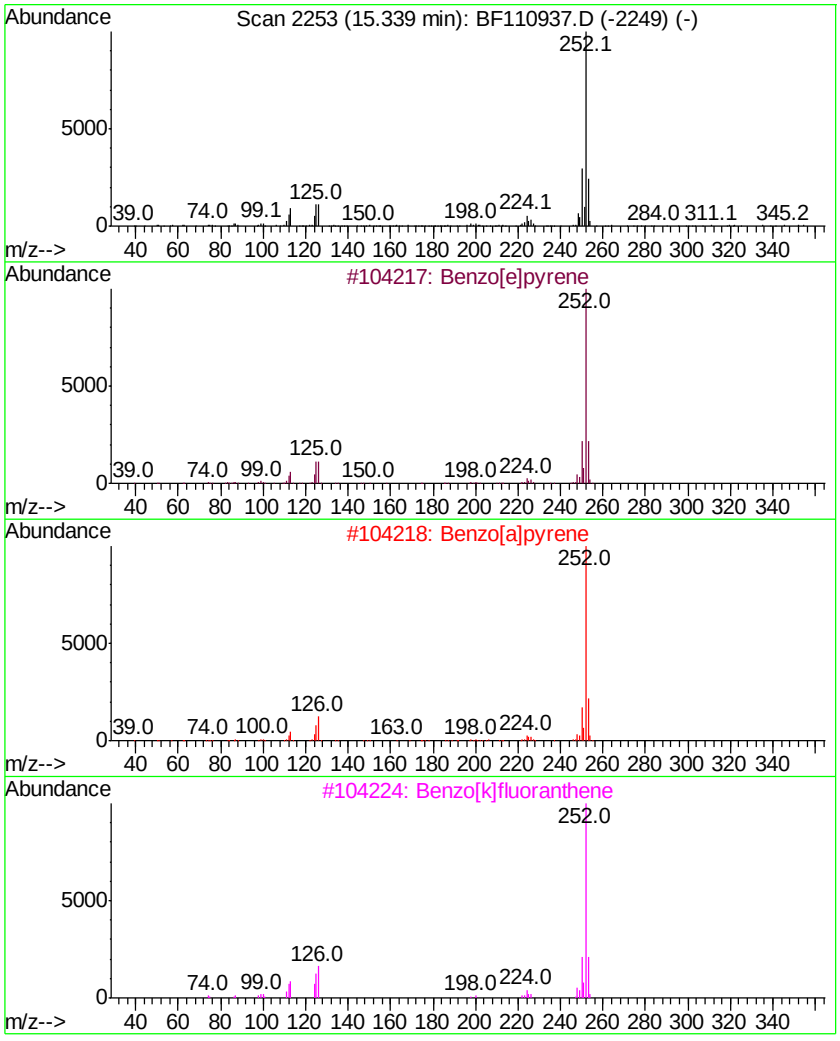
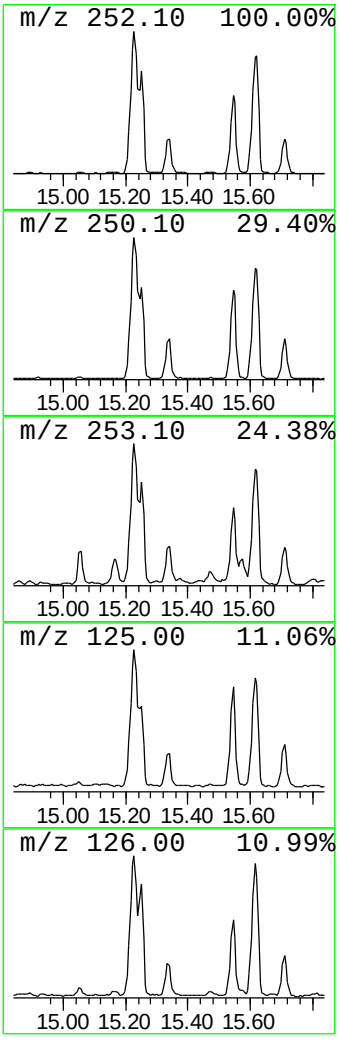
Peak Number 18 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	25.69 ng	266278	Perylene-d12	15.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	95
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	87





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Misc :
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Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

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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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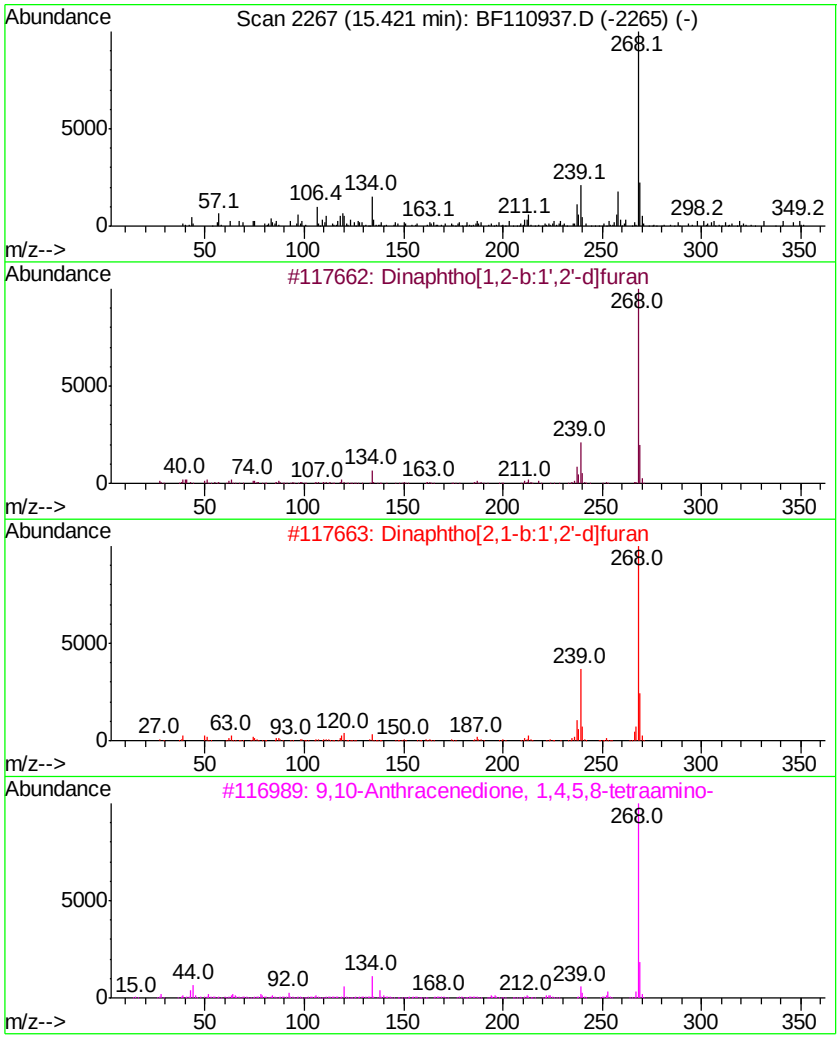
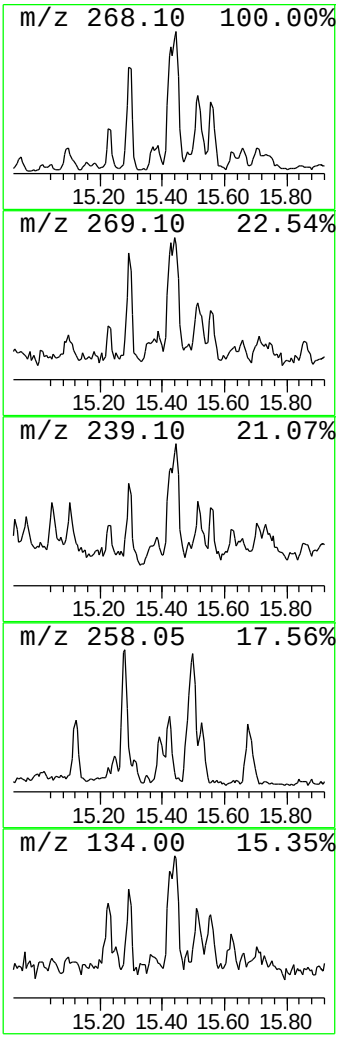
Peak Number 19 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.42	5.64 ng	58451	Perylene-d12	15.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	87
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	81
3	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	53
4	trans-4'-Methyl-4-(methylthio)ch...	268	C17H16OS	126443-27-4	50
5	trans-3'-Methyl-4-(methylthio)ch...	268	C17H16OS	131316-14-8	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF112118\
Data File : BF110937.D
Acq On : 21 Nov 2018 19:20
Operator : JU/SJ
Sample : J5981-02 5X
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DTW-02(11-13)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF110818.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
unknown6.72	6.72	15.7	ng	246274	1	6.95	313821	20.0
Dibenzofuran, 4-m...	10.69	7.3	ng	124007	3	9.99	342007	20.0
9H-Fluorene, 1-me...	11.09	7.9	ng	142486	4	11.49	359543	20.0
9H-Fluoren-9-one	11.29	4.9	ng	88186	4	11.49	359543	20.0
unknown11.32	11.32	6.9	ng	123754	4	11.49	359543	20.0
Naphtho[2,1-b]thi...	11.38	11.4	ng	205463	4	11.49	359543	20.0
Phenanthrene, 1-m...	11.99	17.2	ng	308671	4	11.49	359543	20.0
Phenanthrene, 2-m...	12.02	21.0	ng	378194	4	11.49	359543	20.0
4H-Cyclopenta[def...	12.10	55.6	ng	1000320	4	11.49	359543	20.0
Naphthalene, 2-ph...	12.27	16.4	ng	295039	4	11.49	359543	20.0
9,10-Anthracenedione	12.32	6.1	ng	109024	4	11.49	359543	20.0
Phenanthrene, 2,5...	12.53	9.5	ng	170377	4	11.49	359543	20.0
Cyclopenta(def)ph...	12.64	8.1	ng	145384	4	11.49	359543	20.0
Pyrido[2,3-g]indo...	15.05	9.0	ng	93636	6	15.67	207261	20.0
Benzo[e]pyrene	15.34	25.7	ng	266278	6	15.67	207261	20.0
Dinaphtho[1,2-b:1...	15.42	5.6	ng	58451	6	15.67	207261	20.0