LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

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-BF071317.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	4.757	467	471	481	rBV	90589	121551	8.19%	0.504%
2	5.198	542	546	558	rBV	1303045	1230098	82.90%	5.105%
3	6.245	720	724	735	rBV	1472282	1300310	87.63%	5.396%
4	6.369	741	745	748	rBV	1518805	1384605	93.31%	5.746%
5	6.598	780	784	788	rBV	860999	697599	47.01%	2.895%
6	6.751	806	810	814	rBV	1102746	986891	66.51%	4.095%
7	7.157	875	879	882	rBV	935020	799353	53.87%	3.317%
8	7.281	897	900	904	rVB	21640	18153	1.22%	0.075%
9	7.881	998	1002	1005	rBV	1115247	918396	61.89%	3.811%
10	8.957	1181	1185	1188	rBV	1567092	1243631	83.81%	5.161%
11	9.222	1224	1230	1233	rBV2	18413	25132	1.69%	0.104%
12	9.292	1238	1242	1244	rBV	45361	40303	2.72%	0.167%
13	9.351	1249	1252	1255	rBV	316483	254022	17.12%	1.054%
14	9.486	1272	1275	1282	rVB	70353	62990	4.25%	0.261%
15	9.628	1294	1299	1303	rBV2	958642	838296	56.49%	3.479%
16	9.657	1303	1304	1309	rVB2	50429	42665	2.88%	0.177%
17	9.739	1313	1318	1323	rBV2	14937	22072	1.49%	0.092%
18	9.833	1331	1334	1338	rVV	53547	50755	3.42%	0.211%
19	9.875	1338	1341	1343	rVB	32618	26950	1.82%	0.112%
20	9.945	1349	1353	1356	rBV2	31424	33535	2.26%	0.139%
21	9.975	1356	1358	1361	rVV	26972	22045	1.49%	0.091%
22	10.051	1365	1371	1373	rBV3	37619	52713	3.55%	0.219%
23	10.081	1373	1376	1378	rVB	38675	30864	2.08%	0.128%
24	10.169	1389	1391	1398	rVB3	64158	68963	4.65%	0.286%
25	10.239	1398	1403	1405	rBV3	17875	21218	1.43%	0.088%
26	10.298	1408	1413	1416	rBV4	18898	31193	2.10%	0.129%
27	10.328	1416	1418	1421	rBV	34144	32275	2.18%	0.134%
28	10.410	1428	1432	1437	rVB	704356	636581	42.90%	2.642%
29	10.545	1449	1455	1457	rBV3	73038	80357	5.42%	0.333%
30	10.722	1480	1485	1487	rBV	29034	35349	2.38%	0.147%
31	10.745	1487	1489	1492	rVV3	31645	28400	1.91%	0.118%
32	10.798	1496	1498	1501	rVB3	16390	18503	1.25%	0.077%
33	10.851	1501	1507	1508	rBV2	32222	42056	2.83%	0.175%
34	10.869	1508	1510	1515	rVV2	41095	51117	3.44%	0.212%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

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-BF071317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.910	1515	1517	1523	rVV	69972	67827	4.57%	0.281%
36	10.963	1523	1526	1528	rVV4	28689	31030	2.09%	0.129%
37	10.998	1528	1532	1534	rVV2	113096	105012	7.08%	0.436%
38	11.028	1534	1537	1540	rVB2	29854	30968	2.09%	0.129%
39	11.104	1546	1550	1552	rBV	707883	653181	44.02%	2.711%
40	11.128	1552	1554	1558	rVB	1173382	946768	63.80%	3.929%
41	11.180	1558	1563	1566	rVB	149746	146147	9.85%	0.606%
42	11.216	1566	1569	1572	rBV3	25757	32681	2.20%	0.136%
43	11.333	1586	1589	1592	rBV	43185	38218	2.58%	0.159%
44	11.369	1592	1595	1598	rVV4	17903	29281	1.97%	0.122%
45	11.398	1598	1600	1602	rVV	49044	42762	2.88%	0.177%
46	11.433	1602	1606	1610	rVB4	58436	95556	6.44%	0.397%
47	11.516	1618	1620	1624	rVB2	31694	32392	2.18%	0.134%
48	11.563	1624	1628	1629	rBV2	23183	23508	1.58%	0.098%
49	11.604	1632	1635	1638	rVV	245001	239080	16.11%	0.992%
50	11.633	1638	1640	1643	rVV	321526	252022	16.98%	1.046%
51	11.680	1645	1648	1650	rVV	47655	36661	2.47%	0.152%
52	11.710	1650	1653	1656	rVV	262816	286932	19.34%	1.191%
53	11.739	1656	1658	1663	rVB	162659	137917	9.29%	0.572%
54	11.792	1664	1667	1669	rBV3	23240	25406	1.71%	0.105%
55	11.827	1670	1673	1677	rVB2	35531	54946	3.70%	0.228%
56	11.898	1682	1685	1687	rBV	152769	121192	8.17%	0.503%
57	11.922	1687	1689	1696	rVB2	175487	182612	12.31%	0.758%
58	11.980	1696	1699	1701	rBV4	27120	37340	2.52%	0.155%
59	12.027	1705	1707	1708	rBV2	25796	20218	1.36%	0.084%
60	12.051	1708	1711	1713	rVB	56817	54307	3.66%	0.225%
61	12.080	1713	1716	1718	rBV	65865	57248	3.86%	0.238%
62	12.104	1718	1720	1723	rVB	64213	49244	3.32%	0.204%
63	12.157	1725	1729	1731	rBV	133968	145455	9.80%	0.604%
64	12.186	1731	1734	1736	rVV2	50355	43666	2.94%	0.181%
65	12.210	1736	1738	1740	rVB	73988	51344	3.46%	0.213%
66	12.233	1740	1742	1747	rVB2	143912	162469	10.95%	0.674%
67	12.280	1747	1750	1751	rBV2	24259	23560	1.59%	0.098%
68	12.316	1751	1756	1759	rVB	1585263	1483849	100.00%	6.158%
69	12.363	1759	1764	1765	rBV2	56826	64202	4.33%	0.266%
70	12.404	1769	1771	1774	rVB2	34282	35042	2.36%	0.145%
71	12.445	1774	1778	1785	rBV4	74414	145545	9.81%	0.604%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

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-BF071317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.539	1788	1794	1797	rBV2	1276508	1292407	87.10%	5.363%
73	12.586	1799	1802	1804	rBV2	55157	43511	2.93%	0.181%
74	12.657	1811	1814	1816	rBV	91560	85659	5.77%	0.355%
75	12.686	1816	1819	1826	rVB	1012334	921134	62.08%	3.823%
76	12.757	1826	1831	1834	rBV3	117321	174791	11.78%	0.725%
77	12.839	1843	1845	1847	rBV2	79477	89866	6.06%	0.373%
78	12.863	1847	1849	1852	rVB	130009	127375	8.58%	0.529%
79	12.933	1858	1861	1864	rVB2	75295	68129	4.59%	0.283%
80	12.969	1864	1867	1871	rBV	161626	164276	11.07%	0.682%
81	13.057	1880	1882	1885	rVB	97529	88322	5.95%	0.367%
82	13.092	1885	1888	1891	rBV	91724	101720	6.86%	0.422%
83	13.369	1932	1935	1941	rVB	176711	171574	11.56%	0.712%
84	13.474	1950	1953	1956	rBV2	152518	176355	11.88%	0.732%
85	13.510	1956	1959	1961	rVV	76341	74173	5.00%	0.308%
86	13.574	1968	1970	1973	rBV	145240	147613	9.95%	0.613%
87	13.727	1992	1996	1999	rBV2	750556	1066259	71.86%	4.425%
88	13.757	1999	2001	2004	rVB	549139	423398	28.53%	1.757%
89	14.733	2163	2167	2174	rVB	395675	731274	49.28%	3.035%
90	14.998	2209	2212	2217	rVB	218417	260217	17.54%	1.080%
91	15.051	2218	2221	2227	rBV	274062	297229	20.03%	1.233%
92	15.110	2227	2231	2233	rBV	306929	357699	24.11%	1.484%

Sum of corrected areas: 24097510

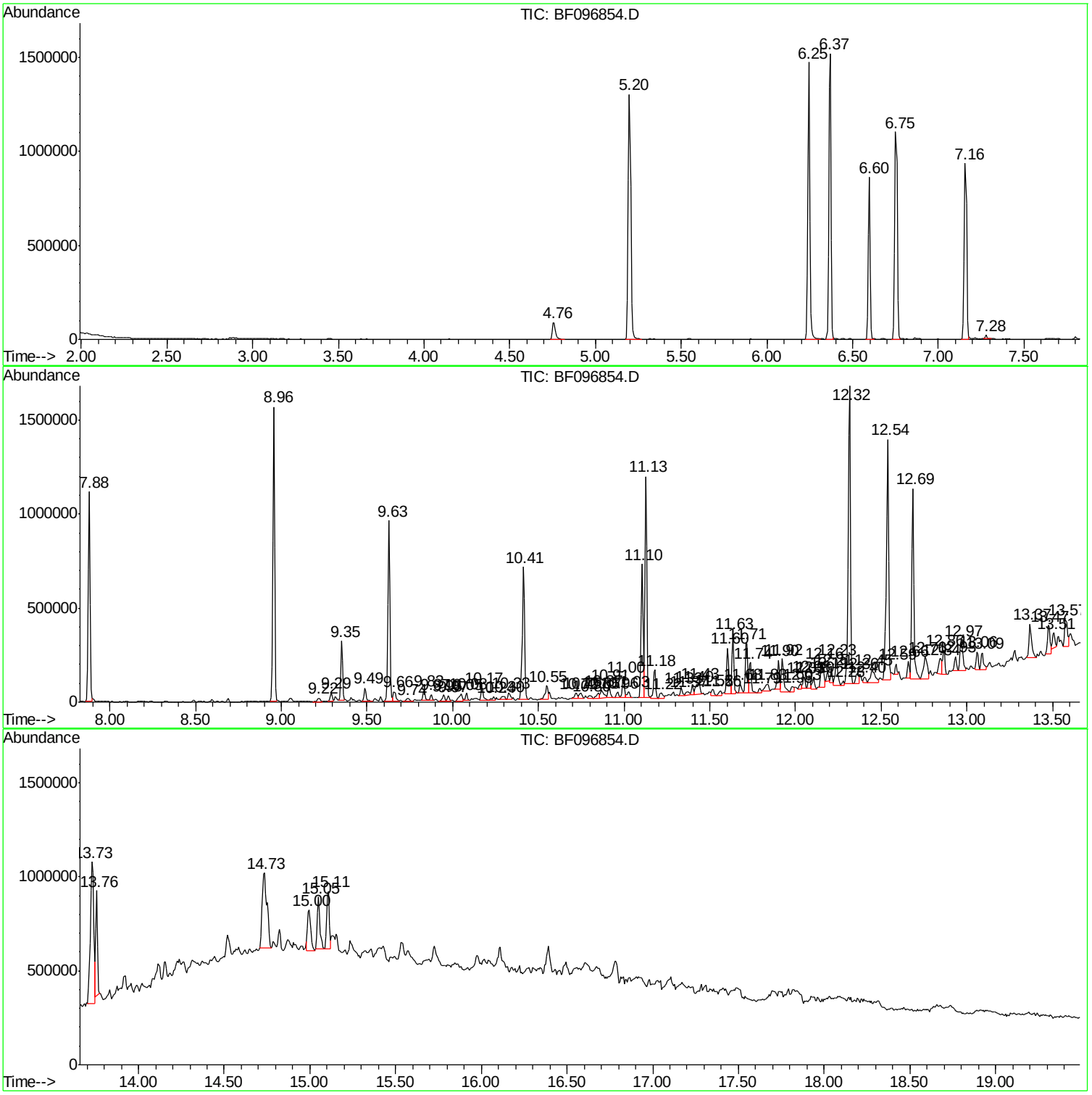
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

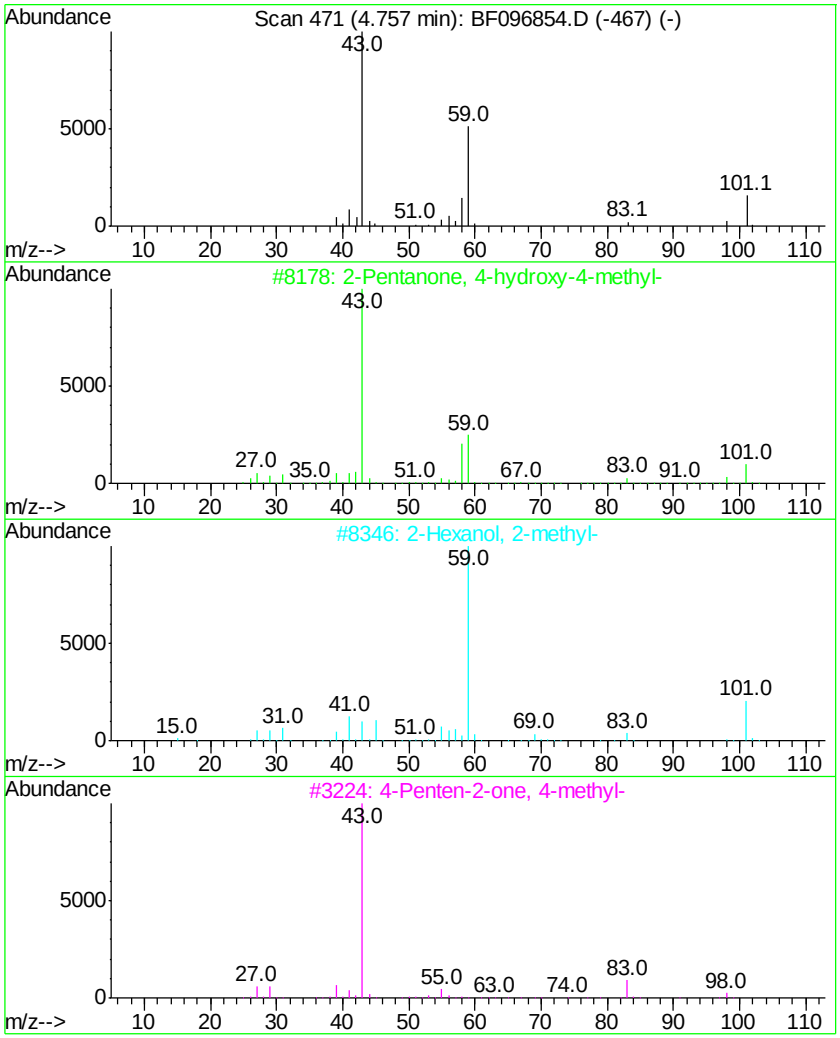
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

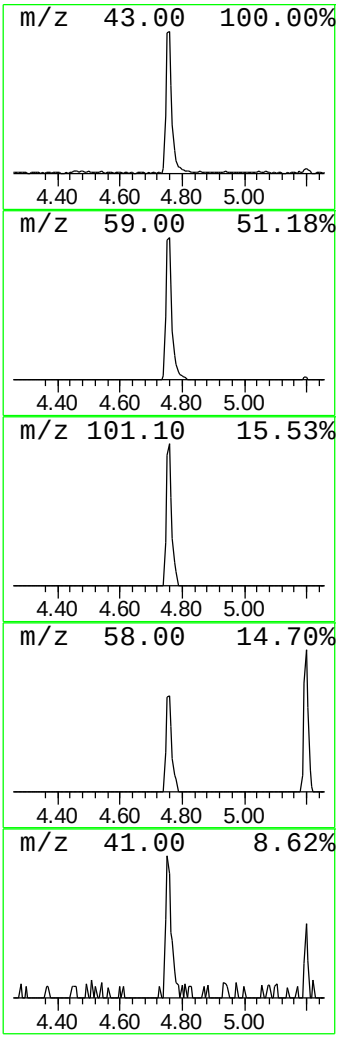
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.76	3.48 ng	121551	1,4-Dichlorobenzene-d4	6.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
3	4-Penten-2-one, 4-methyl-	98	C6H10O	003744-02-3	9
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

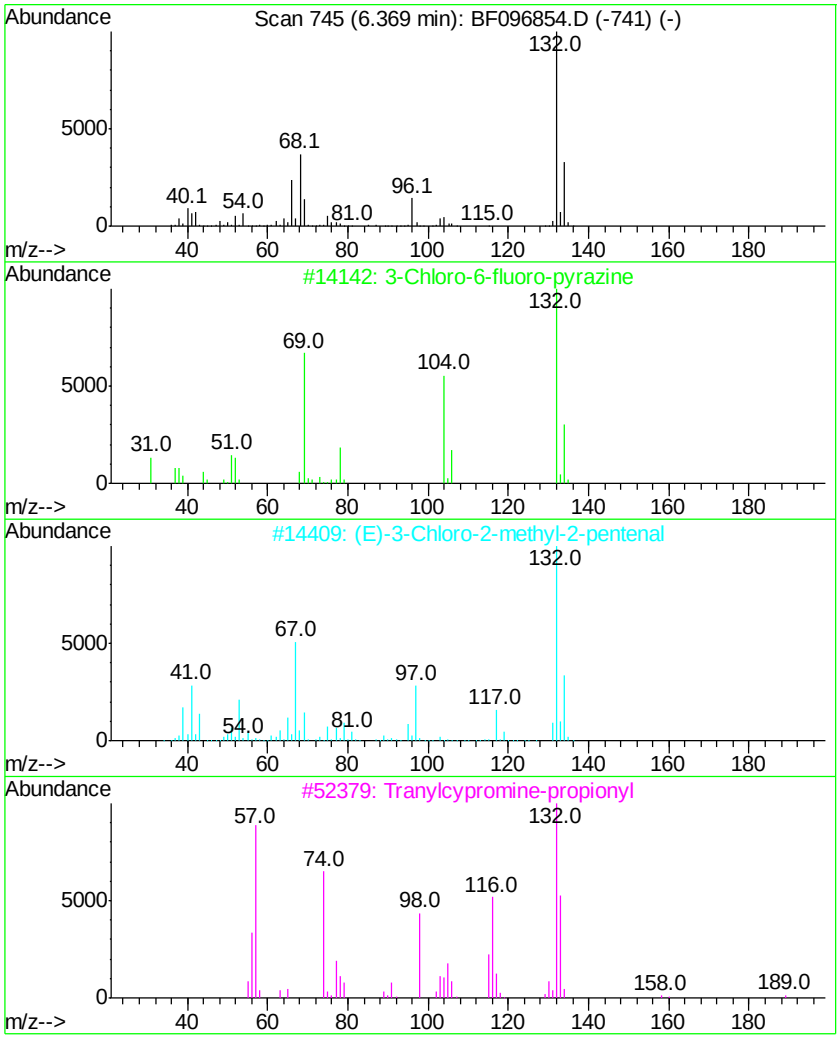
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

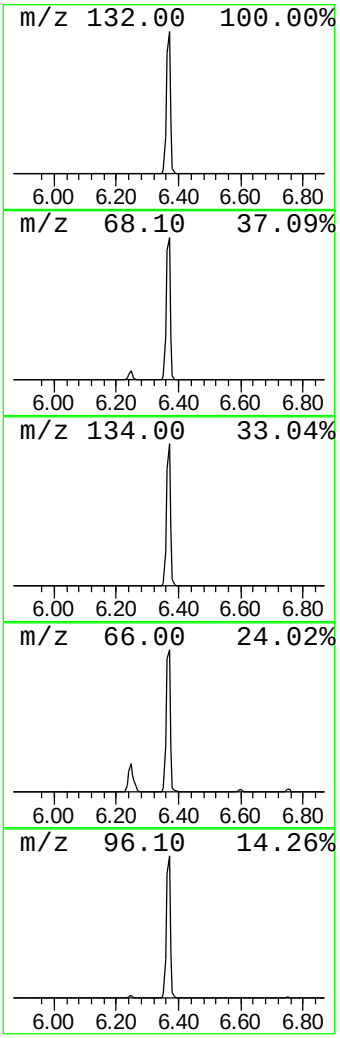
****

Peak Number 2 unknown6.37 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.37	39.70 ng	1384610	1,4-Dichlorobenzene-d4	6.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

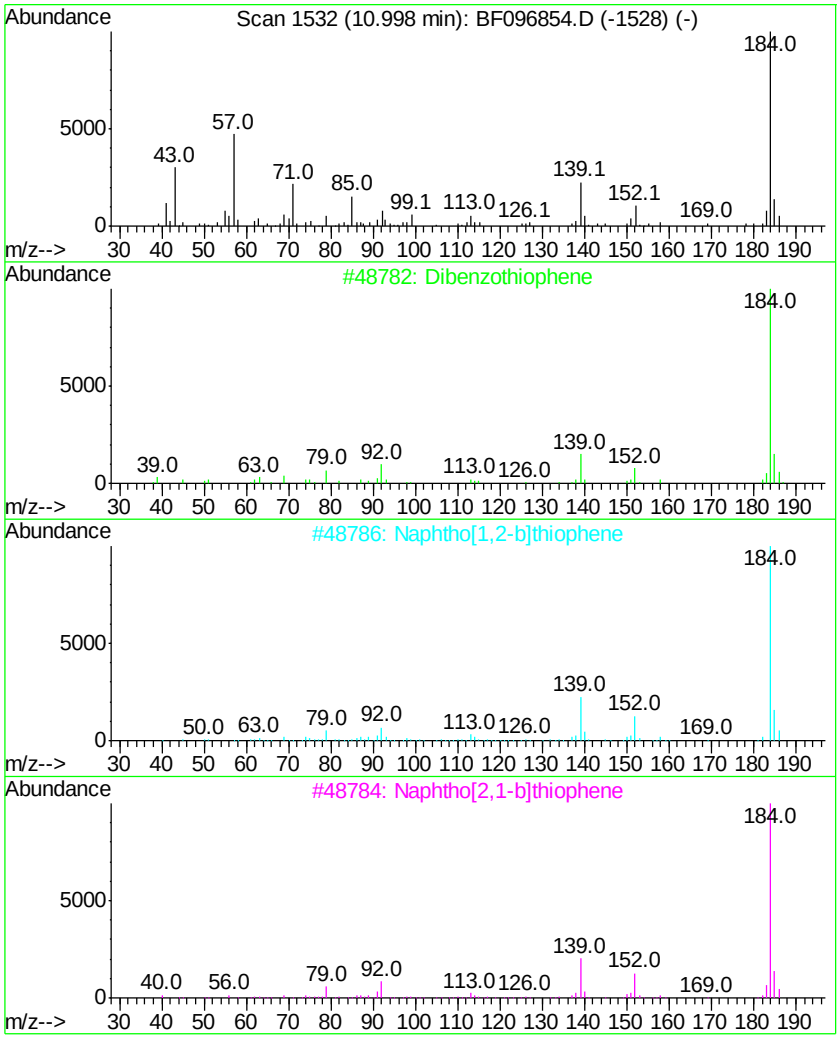
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

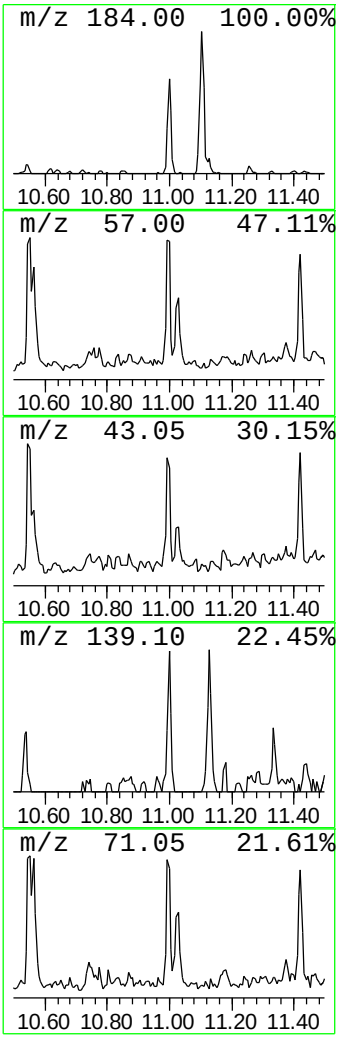
****

Peak Number 4 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.00	3.22 ng	105012	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	90
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	90
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	81
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	81





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

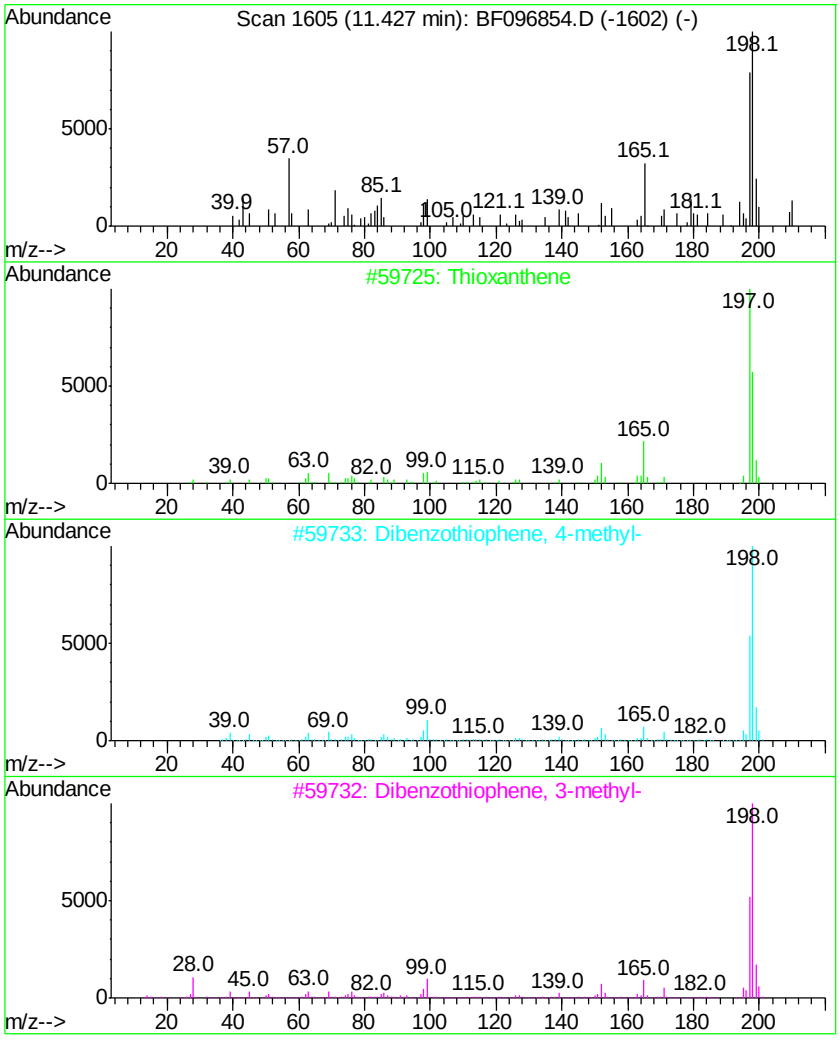
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

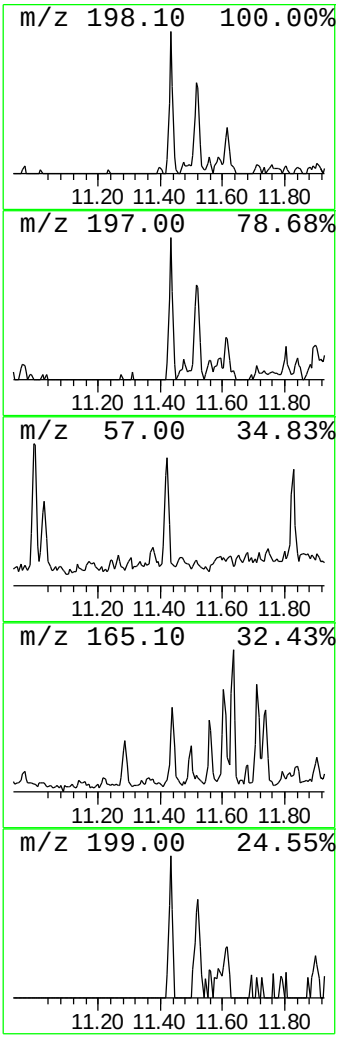
****

Peak Number 5 Thioxanthene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.43	2.93 ng	95556	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Thioxanthene	198	C13H10S	000261-31-4	83
2	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	70
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	70
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	70
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	58





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

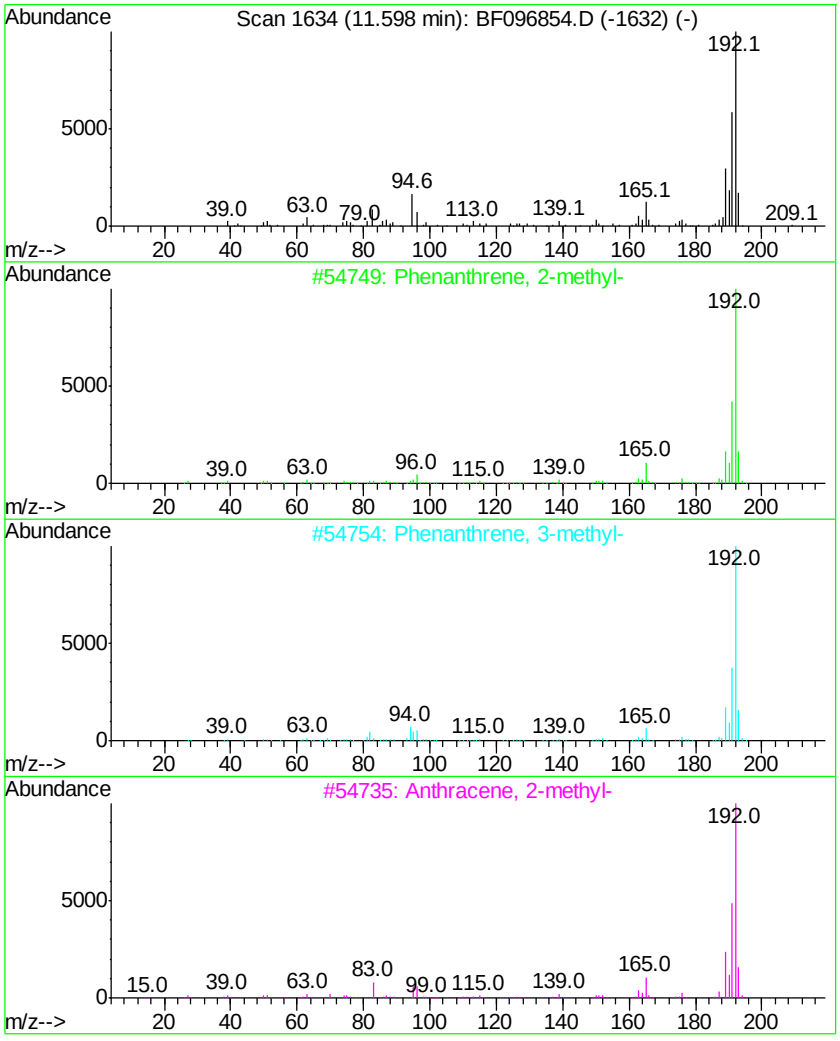
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

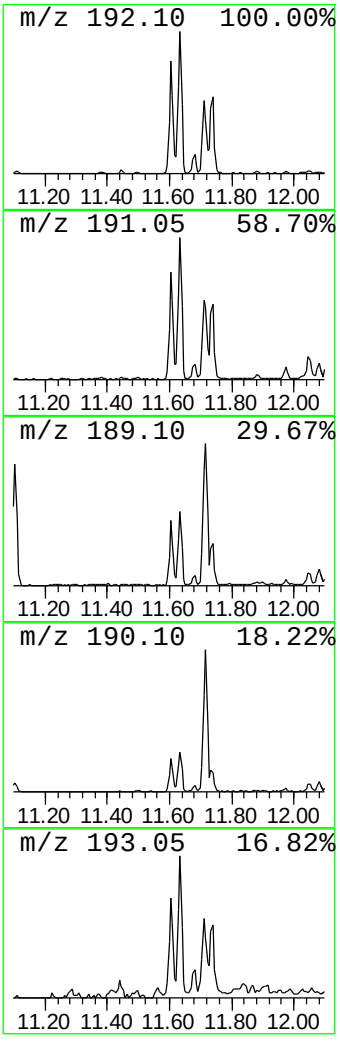
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.60	7.32 ng	239080	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

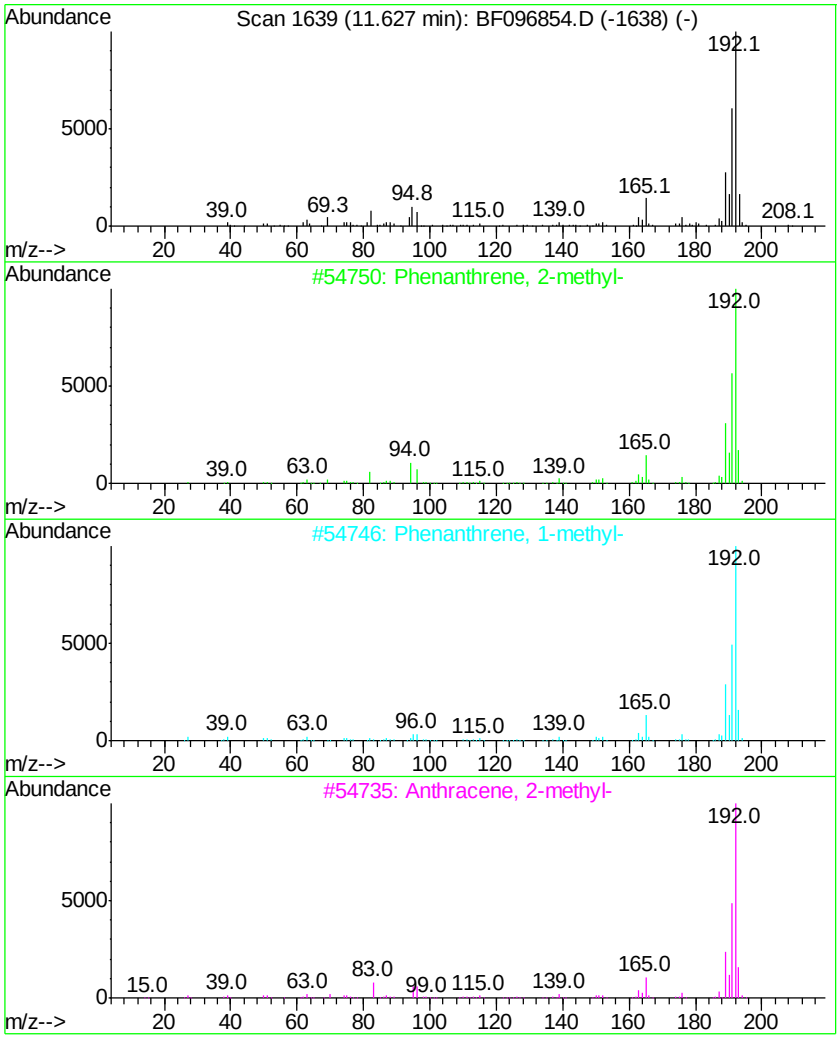
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

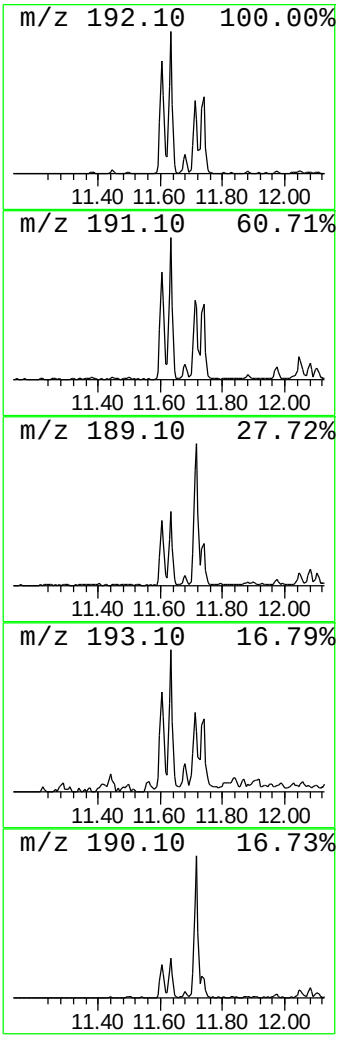
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.63	7.72 ng	252022	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

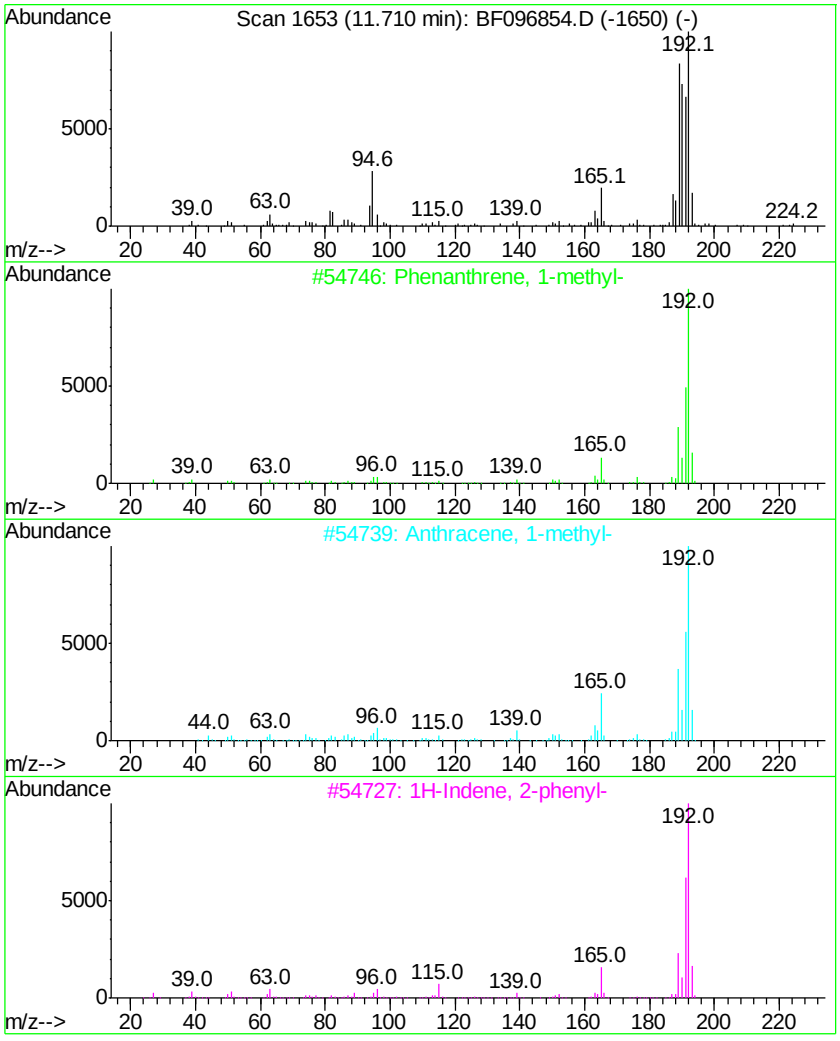
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

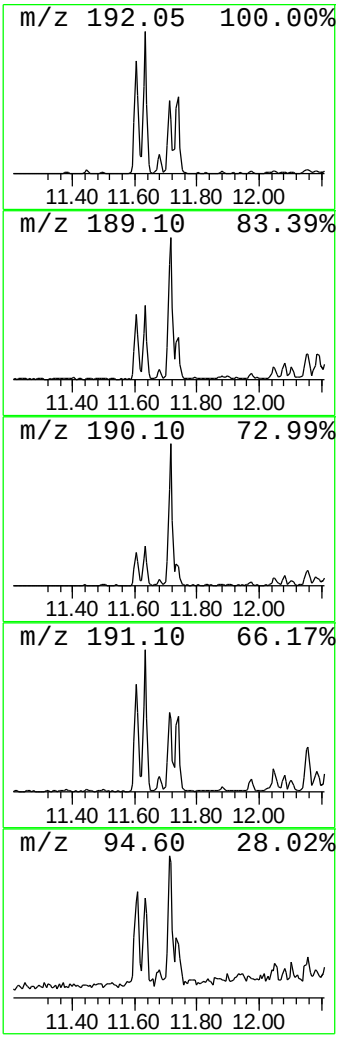
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	8.79 ng	286932	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	52
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	50
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	50
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	50





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

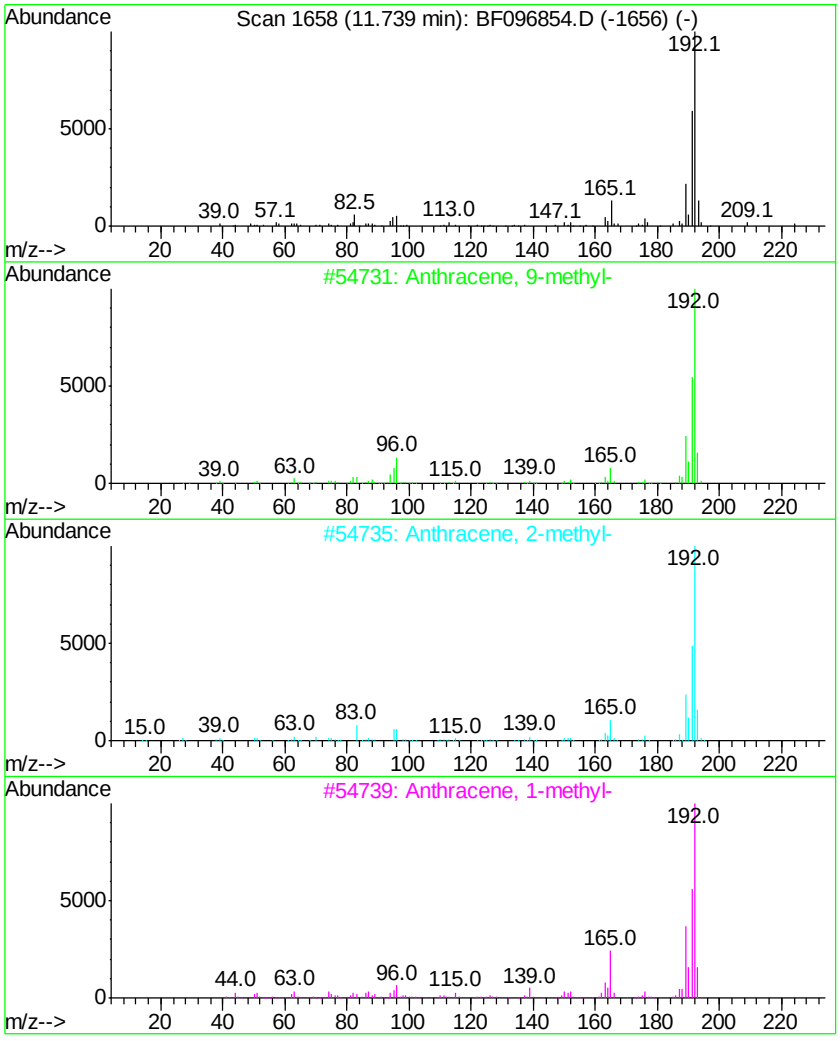
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

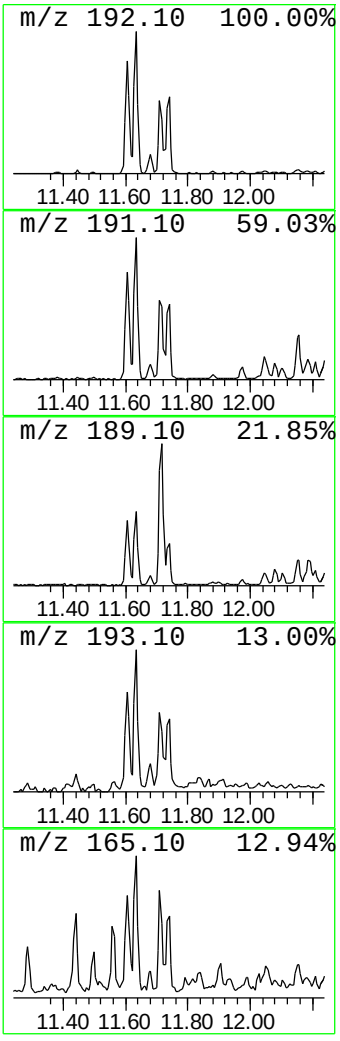
****

Peak Number 9 Anthracene, 9-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	4.22 ng	137917	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	81
4	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	80
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	72





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

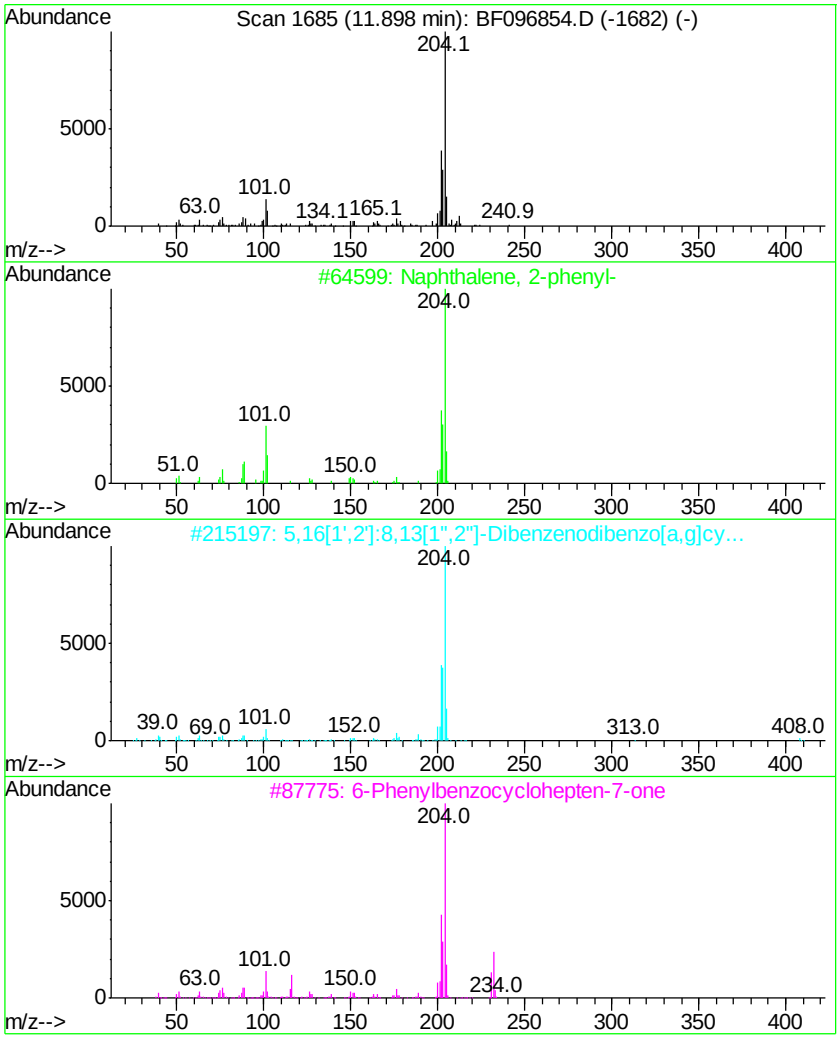
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

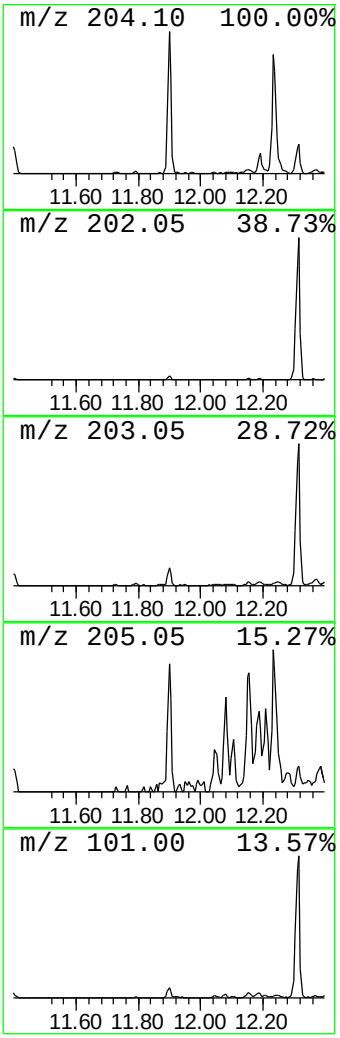
****

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	3.71 ng	121192	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

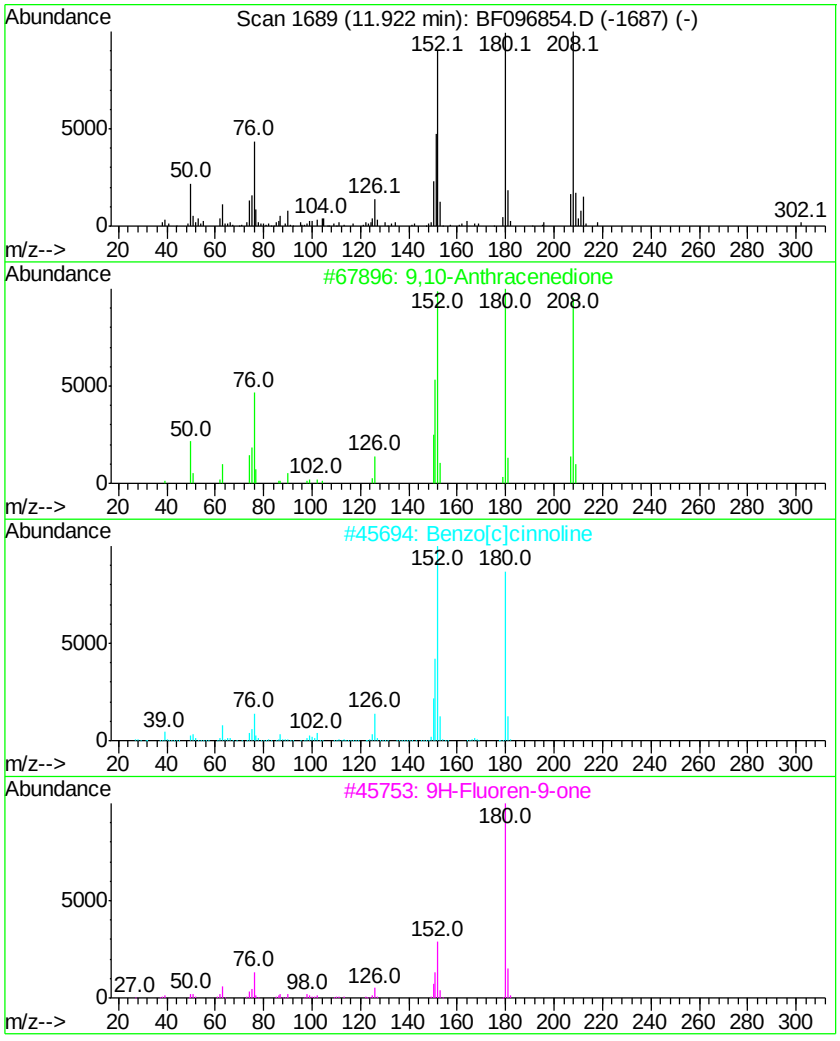
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

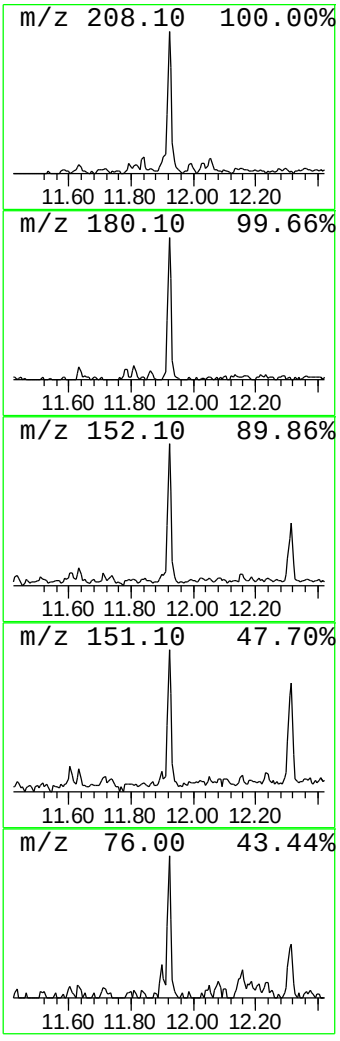
****

Peak Number 11 9,10-Anthracenedione Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	5.59 ng	182612	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	91
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	60
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	60
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

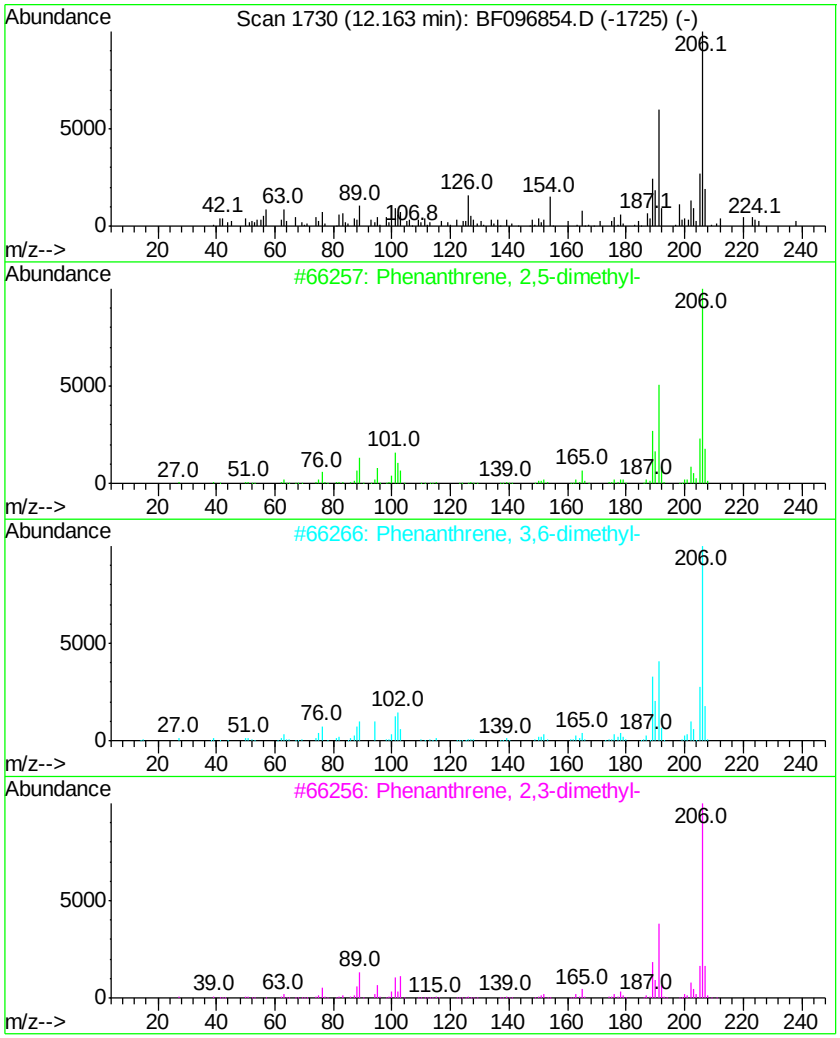
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

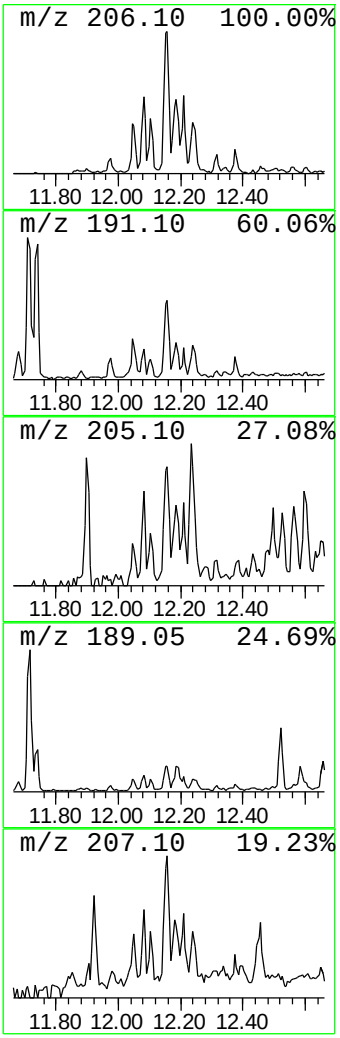
****

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	4.45 ng	145455	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

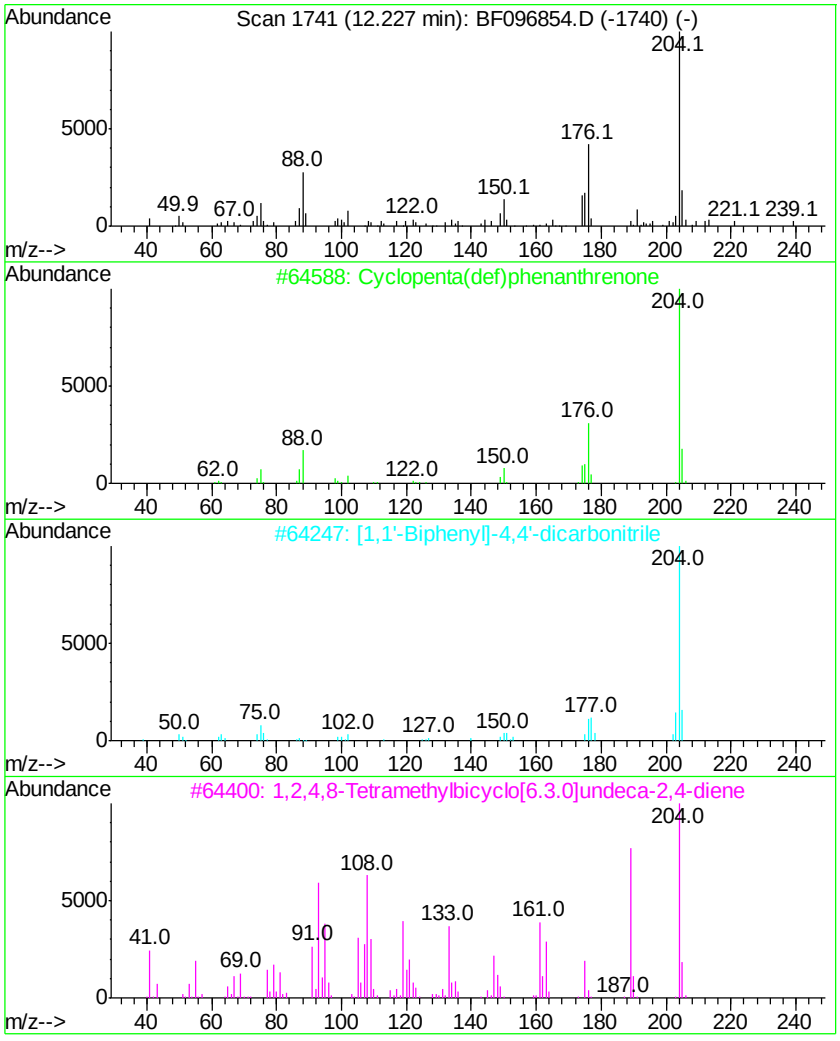
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

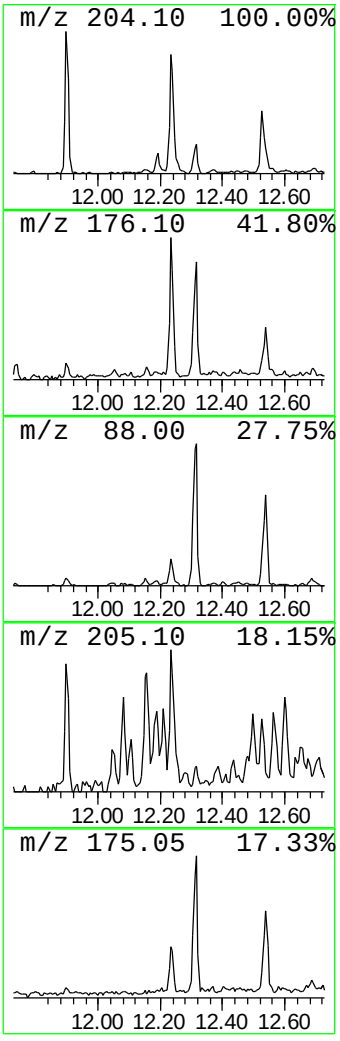
****

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	4.97 ng	162469	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
4	Tricyclo[5.1.0.0(2,4)]octane, 5-...	247	C17H29N	1000063-59-3	47
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	46





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

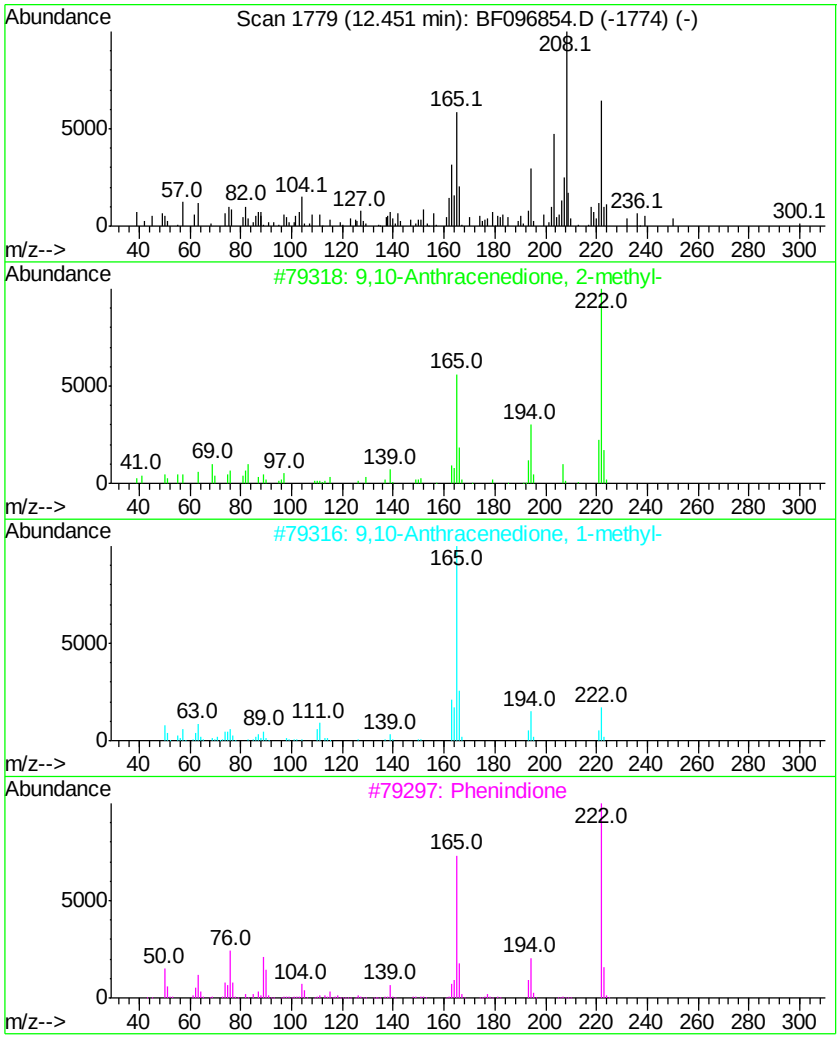
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

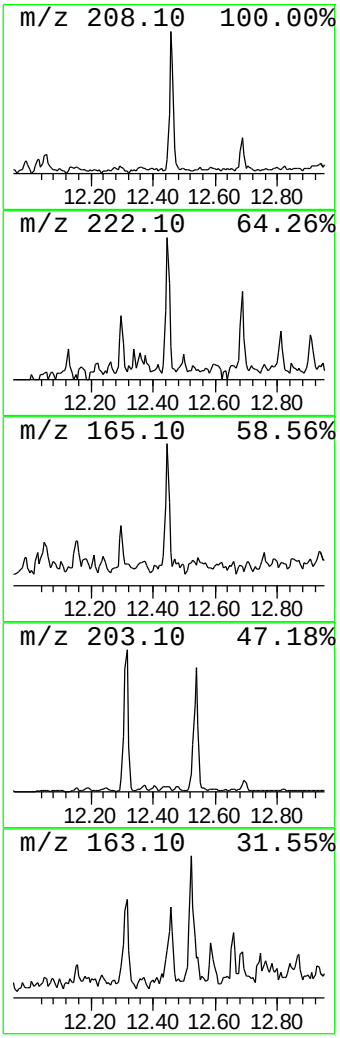
****

Peak Number 14 9,10-Anthracenedione, 2-met... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	2.73 ng	145545	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione, 2-methyl-	222	C15H10O2	000084-54-8	97
2	9,10-Anthracenedione, 1-methyl-	222	C15H10O2	000954-07-4	89
3	Phenindione	222	C15H10O2	000083-12-5	70
4	Benzalphthalide	222	C15H10O2	000575-61-1	64
5	9-Ethylfluorene	194	C15H14	002294-82-8	46





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

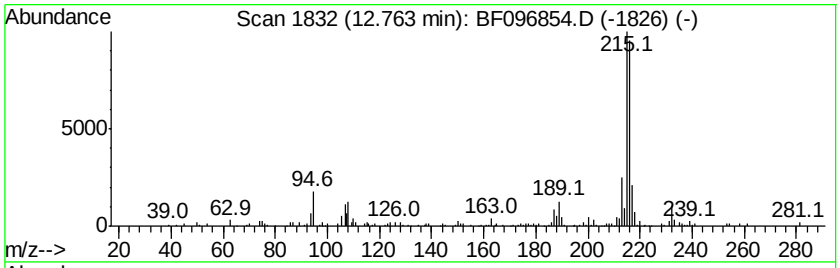
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

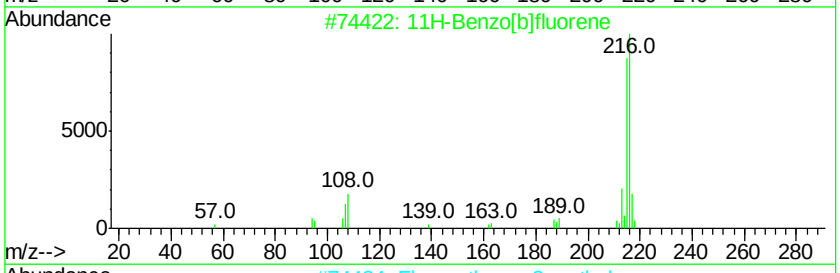
****

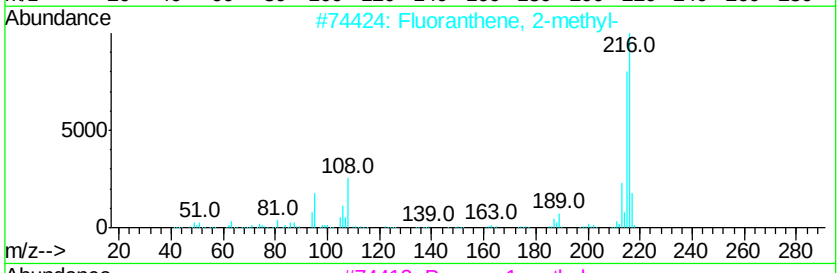
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 14

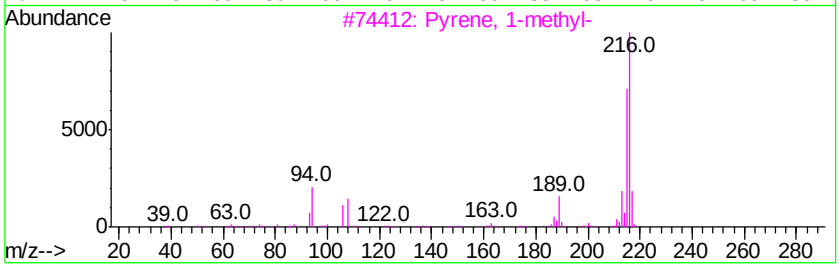
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.76	3.28 ng	174791	Chrysene-d12	13.73

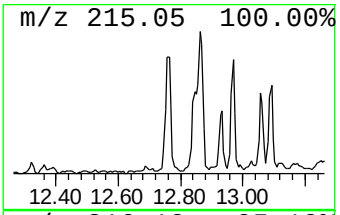
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	72
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70

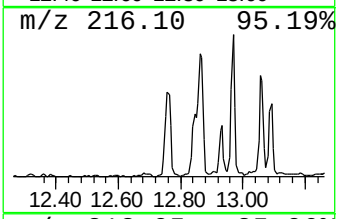


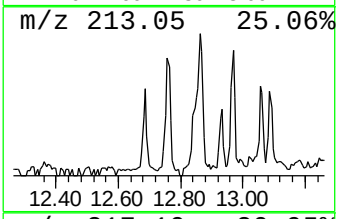


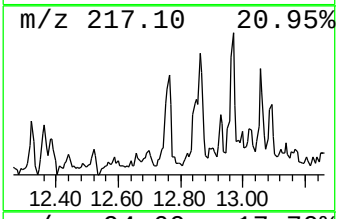


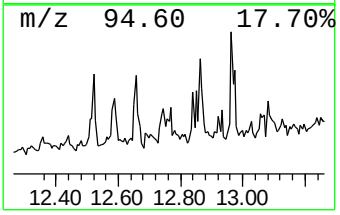












Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

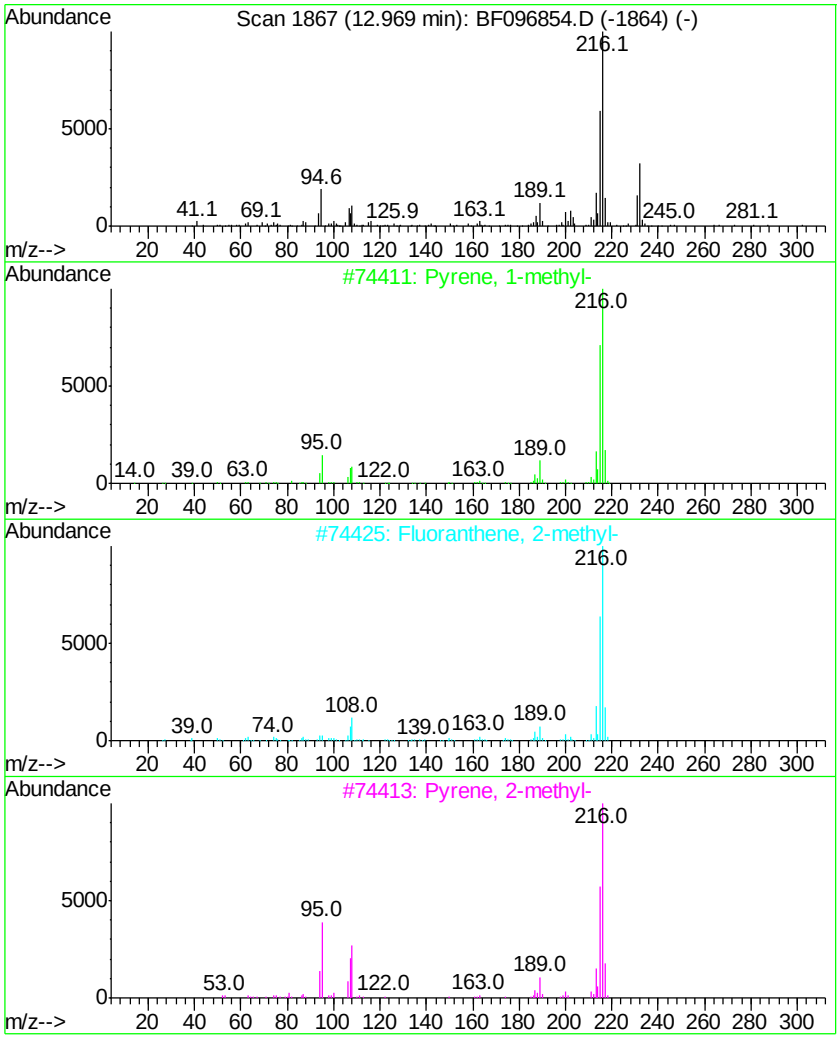
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

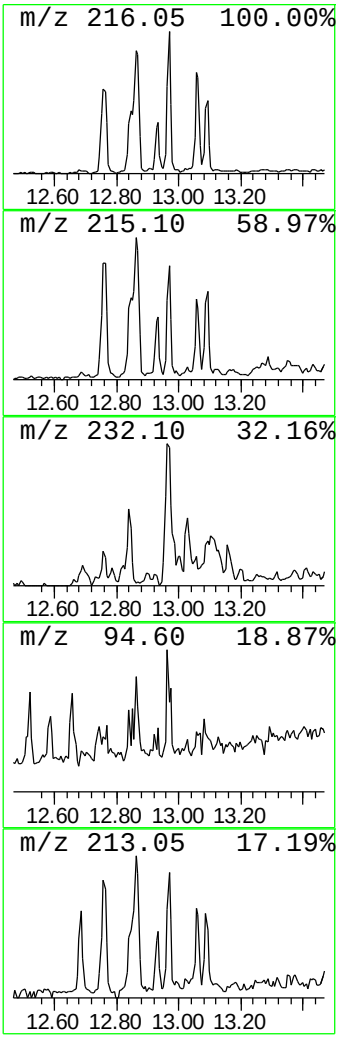
****

Peak Number 16 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.97	3.08 ng	164276	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	81
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	74





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

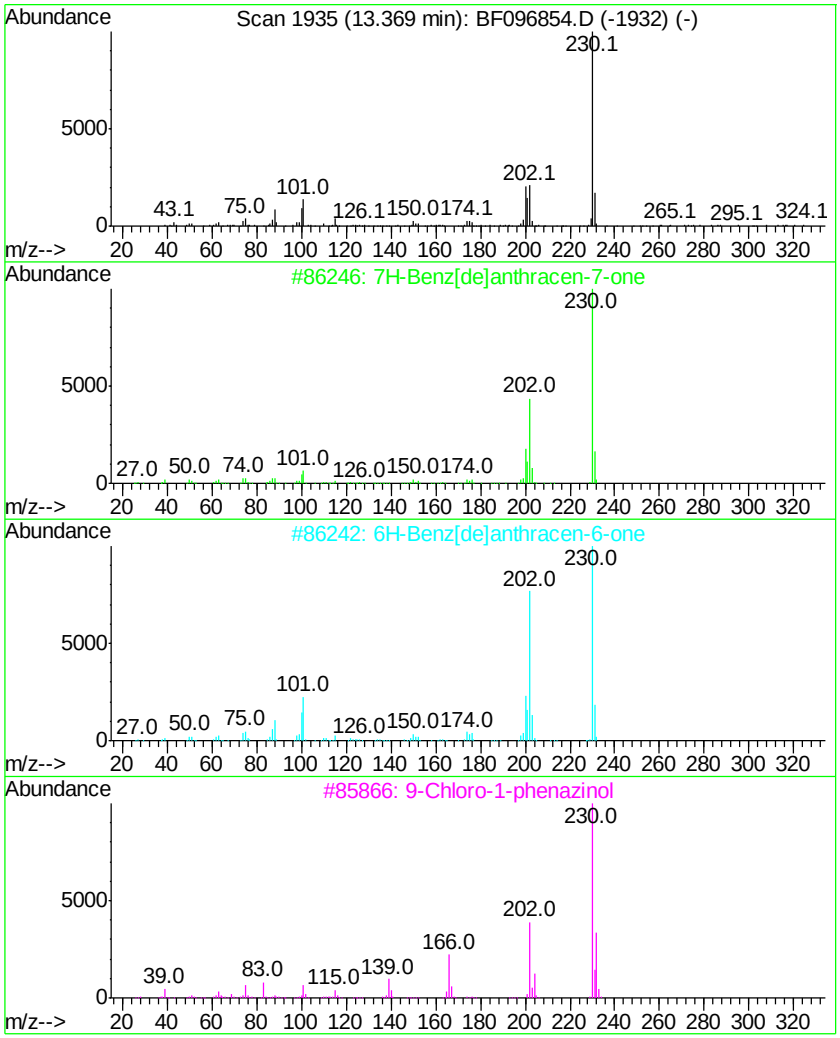
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

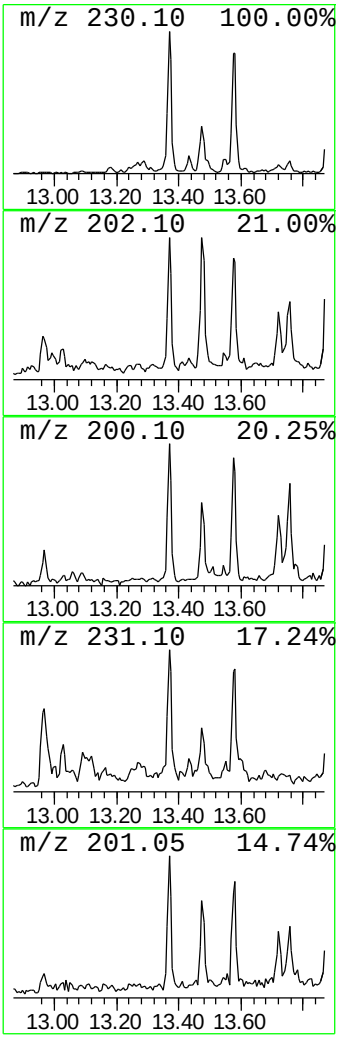
****

Peak Number 17 7H-Benz[de]anthracen-7-one Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.37	3.22 ng	171574	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	53
3	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	53
4	4-Methoxy-2-(p-methoxyphenyl)-6-...	230	C13H14N2O2	063896-93-5	50
5	2-Chloro-9-xanthenone	230	C13H7ClO2	013210-15-6	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

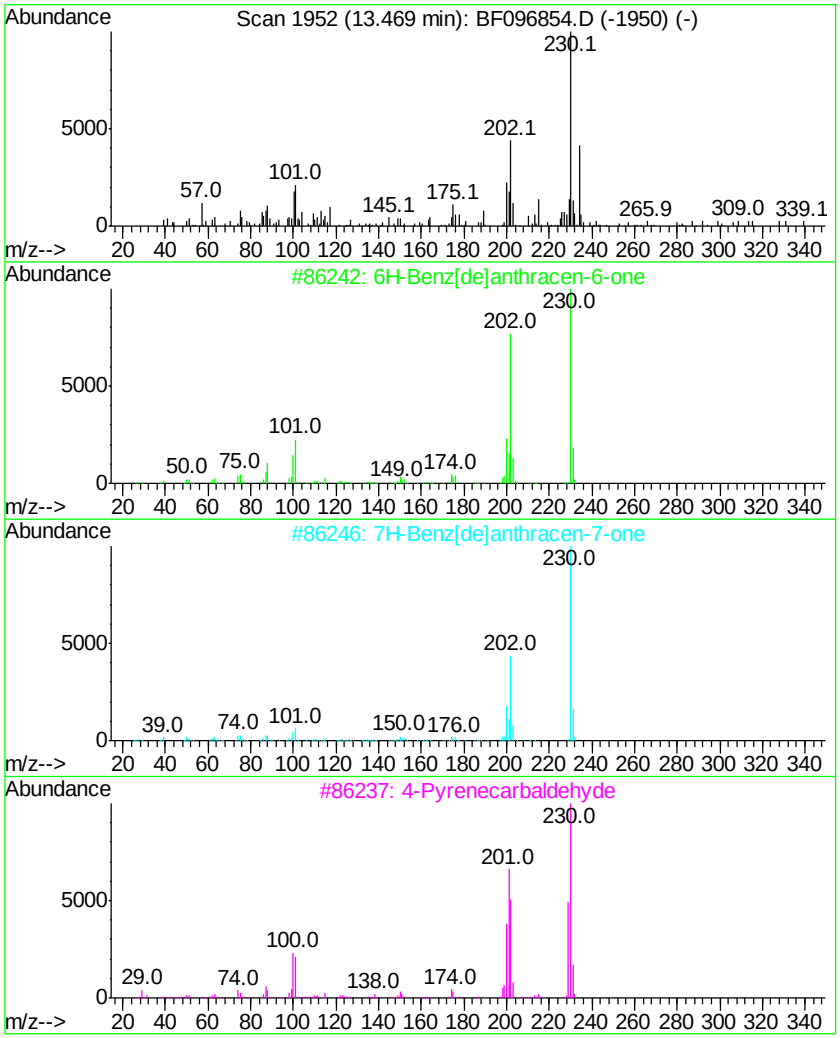
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

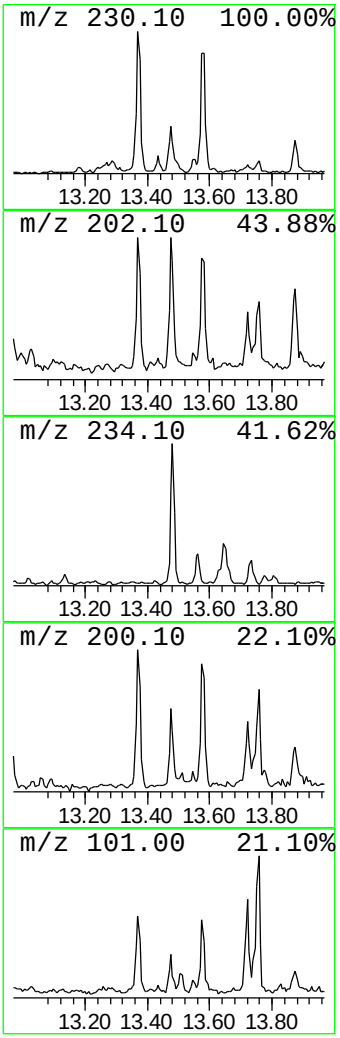
****

Peak Number 18 6H-Benz[de]anthracen-6-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.47	3.31 ng	176355	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	89
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	70
3	4-Pyrenecarbaldehyde	230	C17H10O	022245-51-8	46
4	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	42
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	42





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

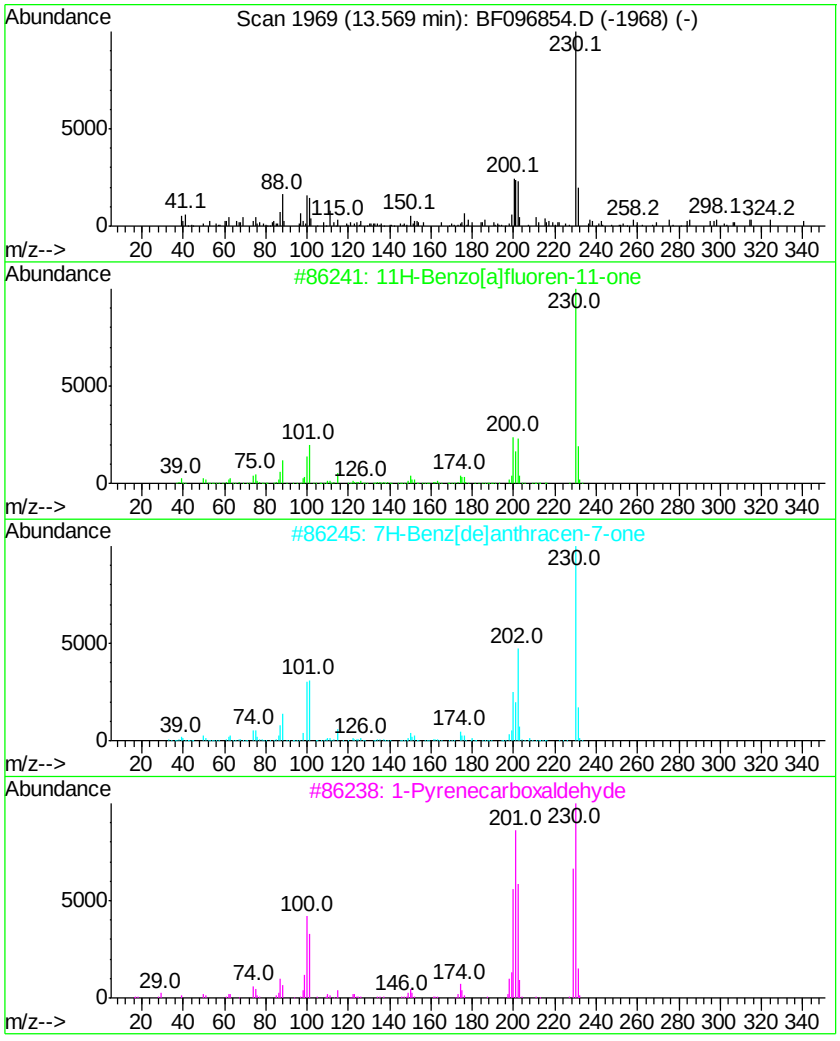
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

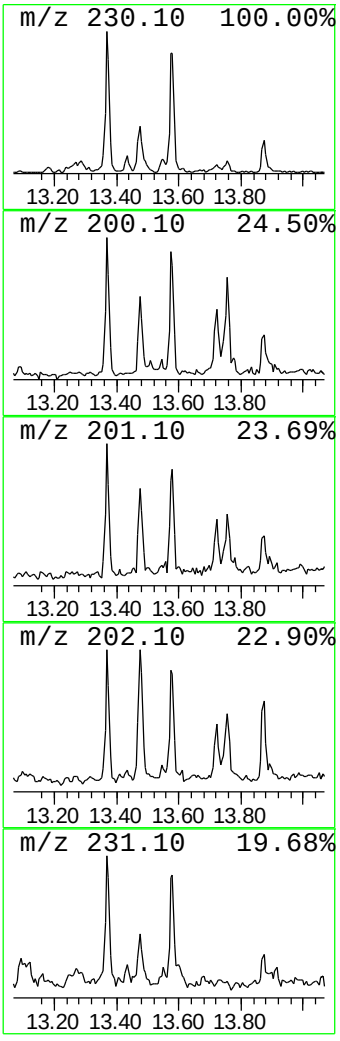
****

Peak Number 19 11H-Benzo[a]fluoren-11-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	2.77 ng	147613	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	4-Isothiazolecarbonitrile, 3,5-b...	230	C8H10N2S3	024135-13-5	53
5	5,6-Dihydrochrysene	230	C18H14	002091-92-1	53





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

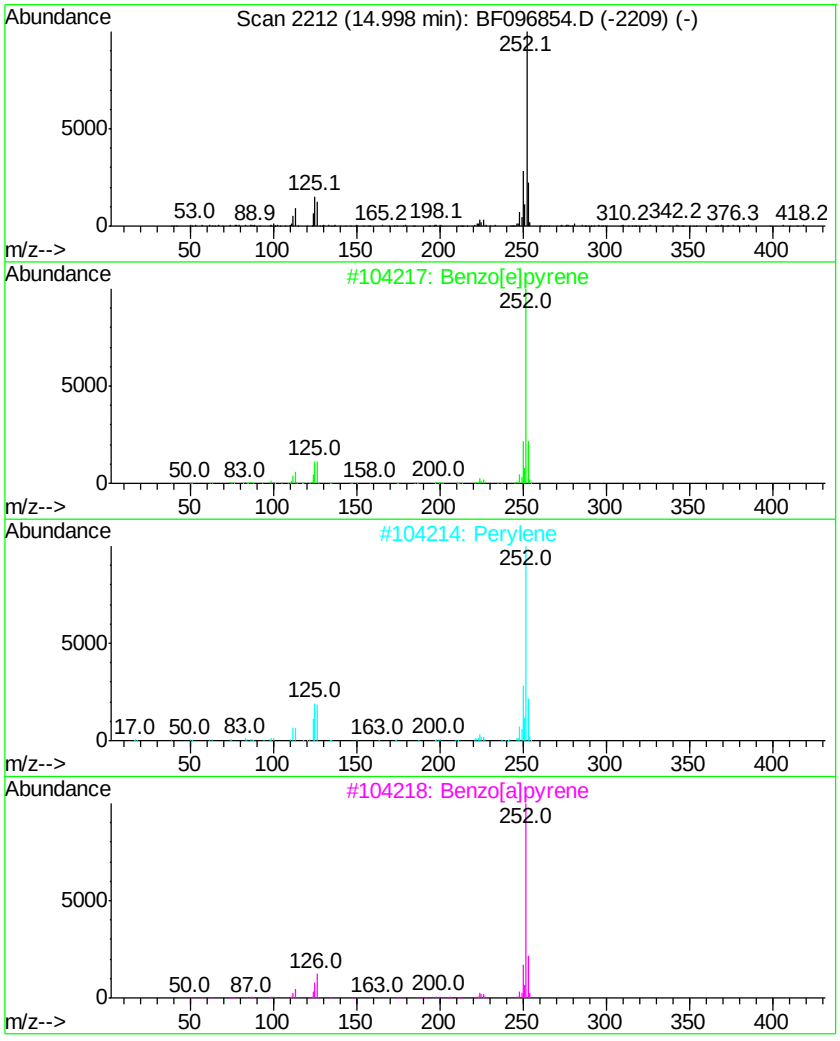
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

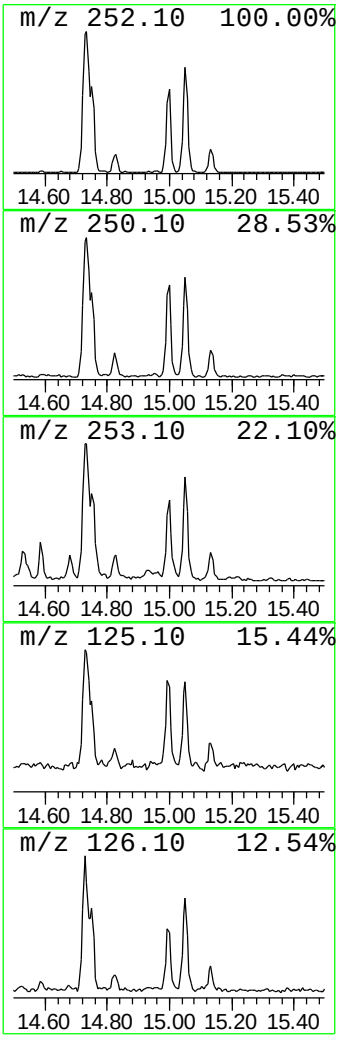
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	14.55 ng	260217	Perylene-d12	15.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071817\
Data File : BF096854.D
Acq On : 18 Jul 2017 18:41
Operator : SJ/JU
Sample : I4245-04 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-071717-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF071317.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
2-Pentanone, 4-hy...	4.76	3.5	ng	121551	1	6.60	697599	20.0
unknown6.37	6.37	39.7	ng	1384610	1	6.60	697599	20.0
Dibenzothiophene	11.00	3.2	ng	105012	4	11.10	653181	20.0
Thioxanthene	11.43	2.9	ng	95556	4	11.10	653181	20.0
Phenanthrene, 2-m...	11.60	7.3	ng	239080	4	11.10	653181	20.0
Anthracene, 2-met...	11.63	7.7	ng	252022	4	11.10	653181	20.0
Phenanthrene, 1-m...	11.71	8.8	ng	286932	4	11.10	653181	20.0
Anthracene, 9-met...	11.74	4.2	ng	137917	4	11.10	653181	20.0
Naphthalene, 2-ph...	11.90	3.7	ng	121192	4	11.10	653181	20.0
9,10-Anthracenedione	11.92	5.6	ng	182612	4	11.10	653181	20.0
Phenanthrene, 2,5...	12.16	4.5	ng	145455	4	11.10	653181	20.0
Cyclopenta(def)ph...	12.23	5.0	ng	162469	4	11.10	653181	20.0
9,10-Anthracenedi...	12.45	2.7	ng	145545	5	13.73	1066260	20.0
11H-Benzo[b]fluorene	12.76	3.3	ng	174791	5	13.73	1066260	20.0
Pyrene, 1-methyl-	12.97	3.1	ng	164276	5	13.73	1066260	20.0
7H-Benz[de]anthra...	13.37	3.2	ng	171574	5	13.73	1066260	20.0
6H-Benz[de]anthra...	13.47	3.3	ng	176355	5	13.73	1066260	20.0
11H-Benzo[a]fluor...	13.57	2.8	ng	147613	5	13.73	1066260	20.0
Benzo[e]pyrene	15.00	14.6	ng	260217	6	15.11	357699	20.0