LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

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-BF061918.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	5.178	479	483	495	rBV	113296	131160	11.14%	0.634%
2	5.590	549	553	577	rVB	879131	894085	75.94%	4.324%
3	6.590	720	723	737	rBV	824667	927635	78.78%	4.487%
4	6.725	742	746	749	rVV	1067323	915538	77.76%	4.428%
5	6.760	749	752	757	rVB3	15083	14749	1.25%	0.071%
6	6.942	780	783	787	rBV	357471	319948	27.17%	1.547%
7	7.101	806	810	813	rBV	875527	744137	63.20%	3.599%
8	7.513	875	880	893	rBV	612231	584186	49.62%	2.826%
9	8.231	998	1002	1004	rBV	385565	374882	31.84%	1.813%
10	8.942	1120	1123	1129	rVB	30814	28505	2.42%	0.138%
11	9.042	1137	1140	1144	rVB	16751	14418	1.22%	0.070%
12	9.301	1180	1184	1187	rBV	1227808	1046557	88.89%	5.062%
13	9.360	1192	1194	1199	rVV2	14596	15274	1.30%	0.074%
14	9.401	1199	1201	1205	rVB2	16649	15642	1.33%	0.076%
15	9.566	1226	1229	1234	rVB	11575	14241	1.21%	0.069%
16	9.642	1237	1242	1245	rVV	16478	15730	1.34%	0.076%
17	9.695	1245	1251	1256	rVB	134091	133411	11.33%	0.645%
18	9.848	1273	1277	1281	rBV	28759	28629	2.43%	0.138%
19	9.889	1281	1284	1288	rVB	16383	15705	1.33%	0.076%
20	9.989	1297	1301	1304	rBV	411856	379297	32.21%	1.835%
21	10.019	1304	1306	1312	rVB	62004	51810	4.40%	0.251%
22	10.195	1331	1336	1339	rBV	42755	46145	3.92%	0.223%
23	10.389	1366	1369	1372	rBV2	26385	23715	2.01%	0.115%
24	10.536	1390	1394	1400	rVB	52963	52788	4.48%	0.255%
25	10.607	1403	1406	1410	rVB3	11940	18841	1.60%	0.091%
26	10.695	1418	1421	1424	rVB2	22479	20407	1.73%	0.099%
27	10.783	1432	1436	1442	rBV	632864	581926	49.42%	2.815%
28	10.878	1448	1452	1454	rBV2	24652	31259	2.65%	0.151%
29	11.083	1481	1487	1489	rBV4	19905	30058	2.55%	0.145%
30	11.113	1489	1492	1495	rVB2	14527	16255	1.38%	0.079%
31	11.189	1503	1505	1507	rBV2	18162	18203	1.55%	0.088%
32	11.236	1511	1513	1518	rVB3	15123	18322	1.56%	0.089%
33	11.289	1518	1522	1525	rBV	60594	54065	4.59%	0.261%
34	11.319	1525	1527	1530	rVV2	28494	40814	3.47%	0.197%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.377	1534	1537	1542	rVB	48796	44435	3.77%	0.215%
36	11.483	1551	1555	1557	rBV	429888	411091	34.91%	1.988%
37	11.507	1557	1559	1562	rVV	841698	673721	57.22%	3.259%
38	11.560	1563	1568	1571	rVV	170420	162648	13.81%	0.787%
39	11.595	1571	1574	1578	rVB	45838	44811	3.81%	0.217%
40	11.719	1589	1595	1598	rBV2	113324	123773	10.51%	0.599%
41	11.819	1609	1612	1616	rVB3	24757	29934	2.54%	0.145%
42	11.872	1616	1621	1622	rBV4	9124	14459	1.23%	0.070%
43	11.907	1625	1627	1630	rVB	20049	18663	1.59%	0.090%
44	11.948	1630	1634	1637	rBV5	12689	17118	1.45%	0.083%
45	11.983	1637	1640	1642	rBV	113252	101672	8.64%	0.492%
46	12.013	1642	1645	1648	rVB2	142110	117384	9.97%	0.568%
47	12.060	1651	1653	1656	rVB	45979	39900	3.39%	0.193%
48	12.101	1656	1660	1662	rBV2	144854	175044	14.87%	0.847%
49	12.277	1687	1690	1693	rBV	101986	87467	7.43%	0.423%
50	12.313	1693	1696	1700	rVB	118099	113805	9.67%	0.550%
51	12.424	1710	1715	1718	rBV4	38668	56982	4.84%	0.276%
52	12.460	1718	1721	1723	rVV	33152	27793	2.36%	0.134%
53	12.483	1723	1725	1728	rVB2	43260	34234	2.91%	0.166%
54	12.536	1730	1734	1737	rBV2	81581	88818	7.54%	0.430%
55	12.572	1738	1740	1742	rVV2	30640	29596	2.51%	0.143%
56	12.630	1746	1750	1753	rBV2	97378	106817	9.07%	0.517%
57	12.707	1758	1763	1766	rBV	1218771	1138713	96.71%	5.508%
58	12.736	1766	1768	1770	rVV2	19131	17174	1.46%	0.083%
59	12.766	1770	1773	1775	rVV2	30072	25272	2.15%	0.122%
60	12.854	1783	1788	1790	rBV3	49955	66797	5.67%	0.323%
61	12.877	1790	1792	1795	rVB2	28387	24480	2.08%	0.118%
62	12.913	1795	1798	1799	rBV	239469	209018	17.75%	1.011%
63	12.936	1799	1802	1807	rVV	1035378	1035772	87.97%	5.010%
64	12.977	1807	1809	1814	rVB	66906	67822	5.76%	0.328%
65	13.066	1819	1824	1827	rVV	1148850	1084514	92.11%	5.245%
66	13.095	1827	1829	1834	rVB	71138	70848	6.02%	0.343%
67	13.154	1834	1839	1843	rBV2	78995	146734	12.46%	0.710%
68	13.189	1843	1845	1846	rBV	22924	17956	1.53%	0.087%
69	13.260	1849	1857	1860	rBV2	144055	268897	22.84%	1.301%
70	13.330	1866	1869	1871	rBV	59383	59383	5.04%	0.287%
71	13.366	1871	1875	1877	rBV2	101733	118718	10.08%	0.574%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.419	1882	1884	1888	rBV2	29683	29336	2.49%	0.142%
73	13.460	1889	1891	1893	rBV	90345	67766	5.76%	0.328%
74	13.489	1893	1896	1899	rVV2	73055	72802	6.18%	0.352%
75	13.777	1942	1945	1949	rBV	189271	172956	14.69%	0.837%
76	13.883	1961	1963	1965	rBV	119760	94676	8.04%	0.458%
77	13.907	1965	1967	1970	rVB	95940	82685	7.02%	0.400%
78	13.942	1970	1973	1978	rBV4	209812	279624	23.75%	1.352%
79	13.989	1978	1981	1983	rVB	136320	112720	9.57%	0.545%
80	14.077	1990	1996	1999	rBV2	265666	443661	37.68%	2.146%
81	14.136	1999	2006	2009	rBV2	702882	1177427	100.00%	5.695%
82	14.166	2009	2011	2014	rVB	561205	463689	39.38%	2.243%
83	14.254	2022	2026	2031	rBV2	221843	413962	35.16%	2.002%
84	14.318	2034	2037	2042	rVB	623164	586518	49.81%	2.837%
85	14.477	2062	2064	2069	rVB2	172973	180154	15.30%	0.871%
86	14.530	2071	2073	2076	rVB	95412	79747	6.77%	0.386%
87	14.565	2077	2079	2081	rBV2	80844	78411	6.66%	0.379%
88	15.230	2187	2192	2195	rBV	393450	681158	57.85%	3.295%
89	15.548	2243	2246	2252	rVB	209030	265026	22.51%	1.282%
90	15.618	2254	2258	2265	rBV	303518	392994	33.38%	1.901%
91	15.683	2265	2269	2272	rBV	203755	246622	20.95%	1.193%
92	17.265	2534	2538	2546	rVB	131438	262718	22.31%	1.271%

Sum of corrected areas: 20675252

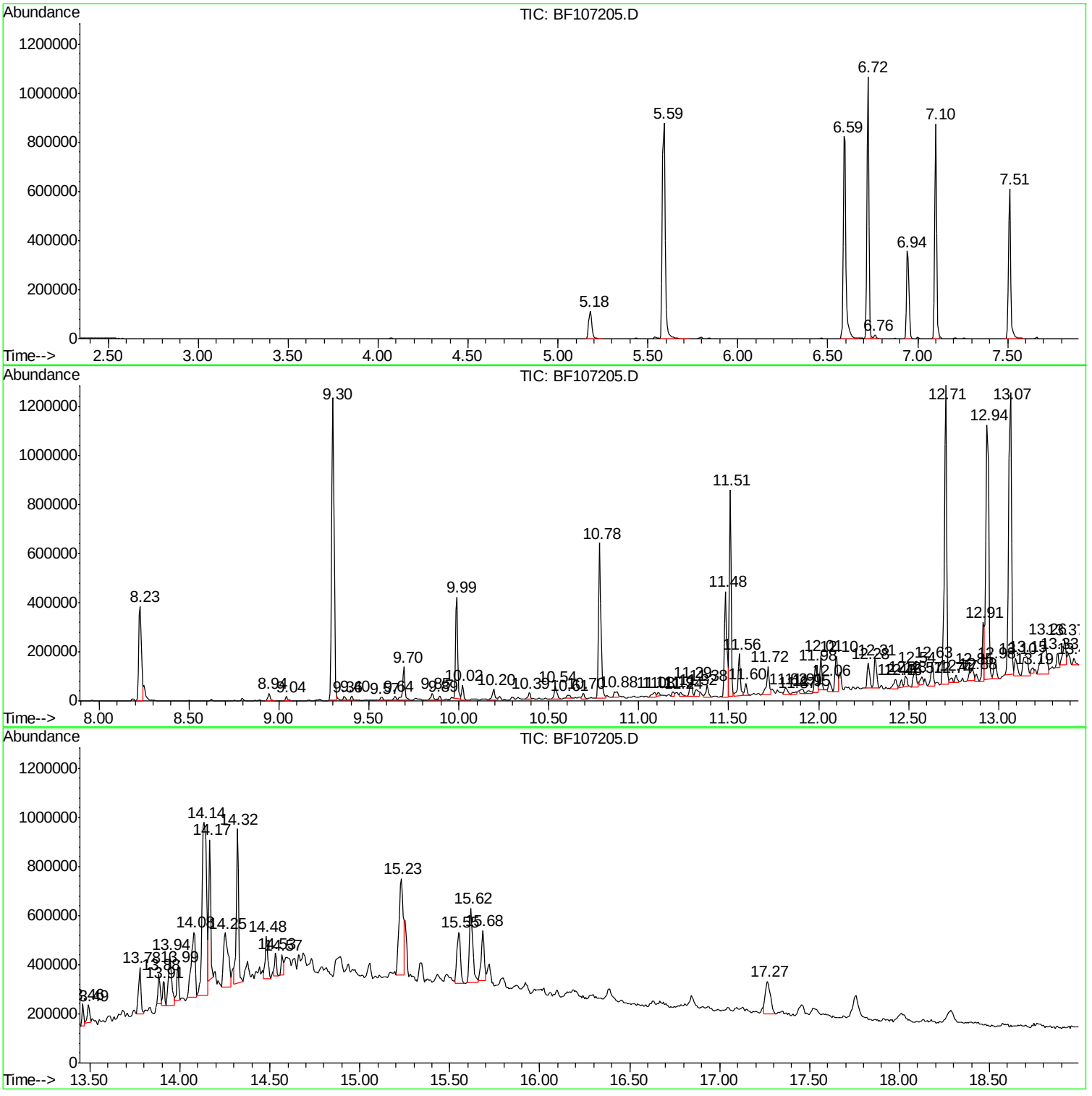
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

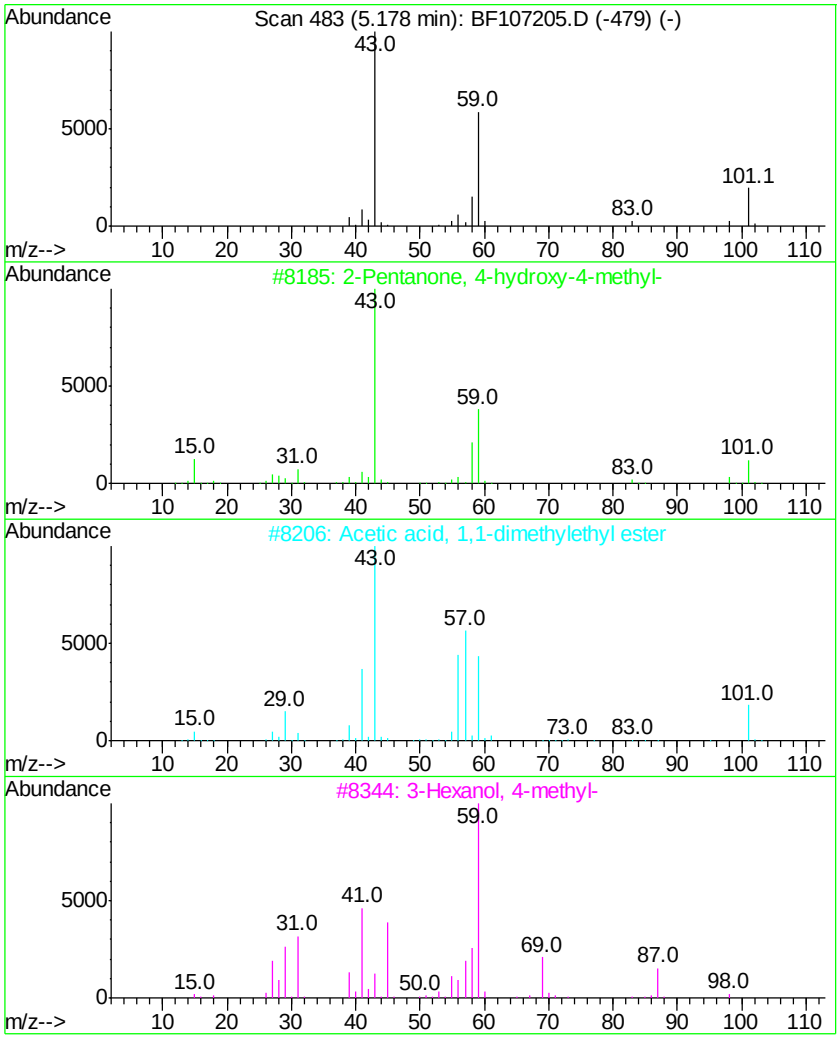
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

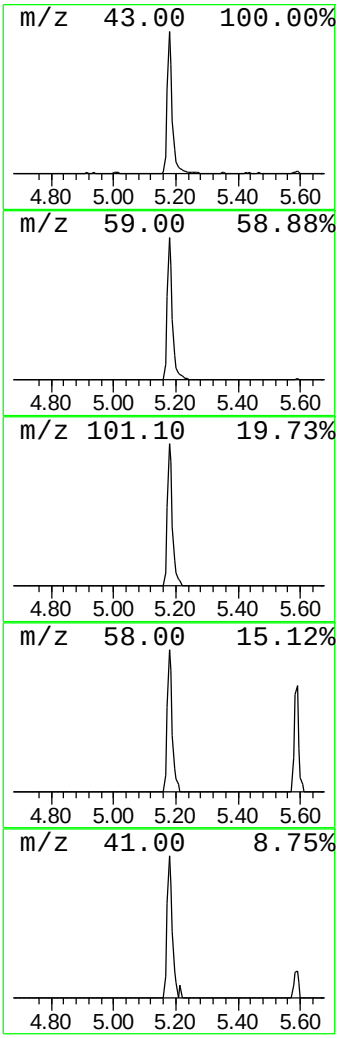
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	8.20 ng	131160	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

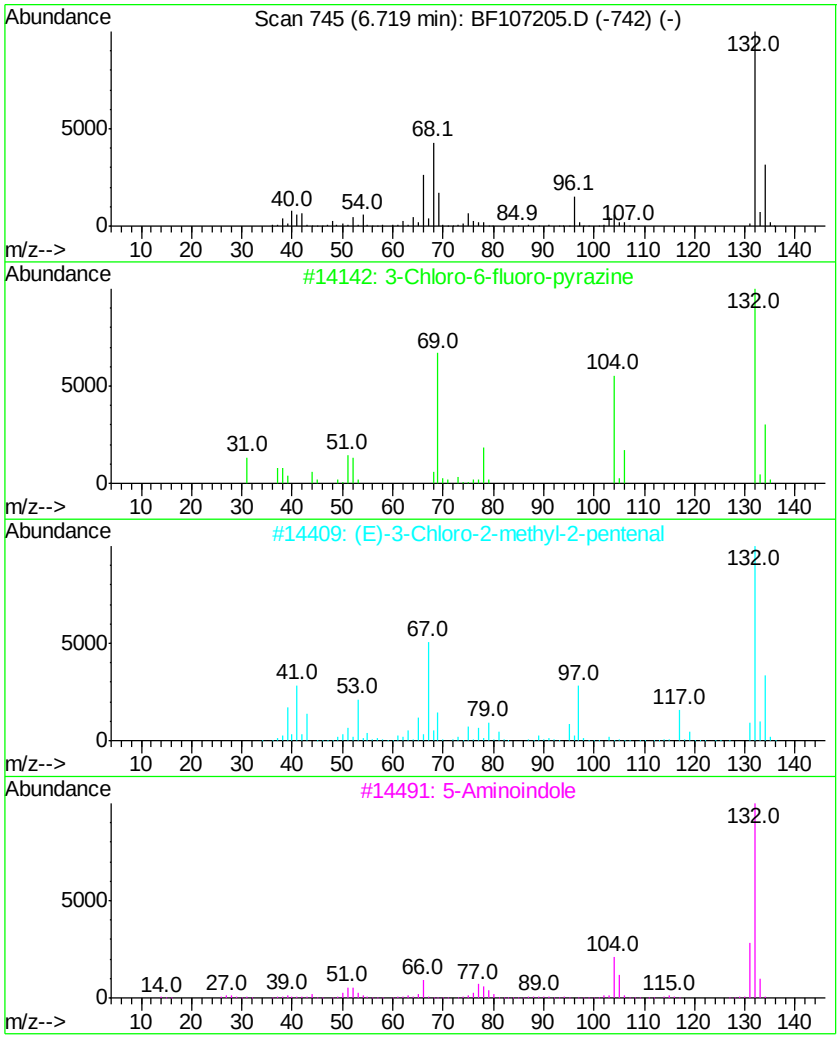
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

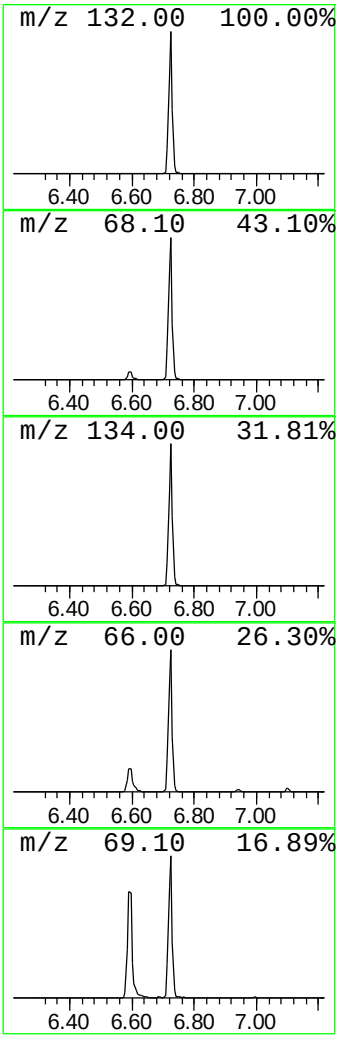
****

Peak Number 2 unknown6.72 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.72	57.23 ng	915538	1,4-Dichlorobenzene-d4	6.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

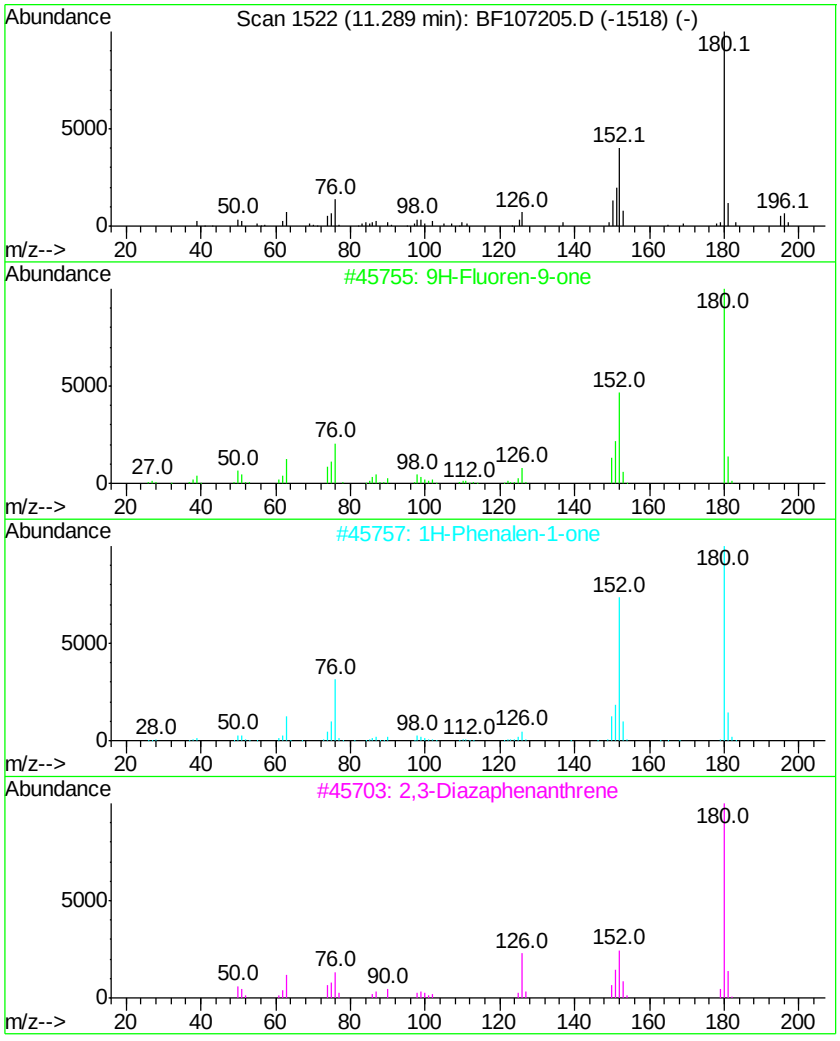
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

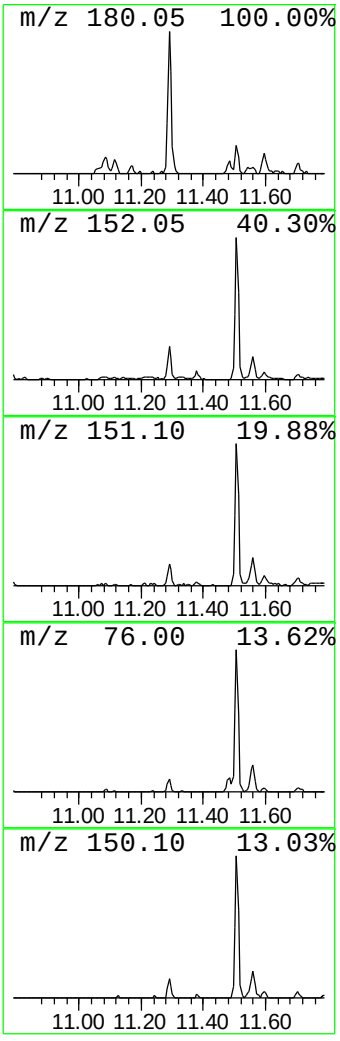
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.29	2.63 ng	54065	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	97
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
3	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	50
5	4-Acetyl-1-naphthonitrile	195	C13H9NO	029139-00-2	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

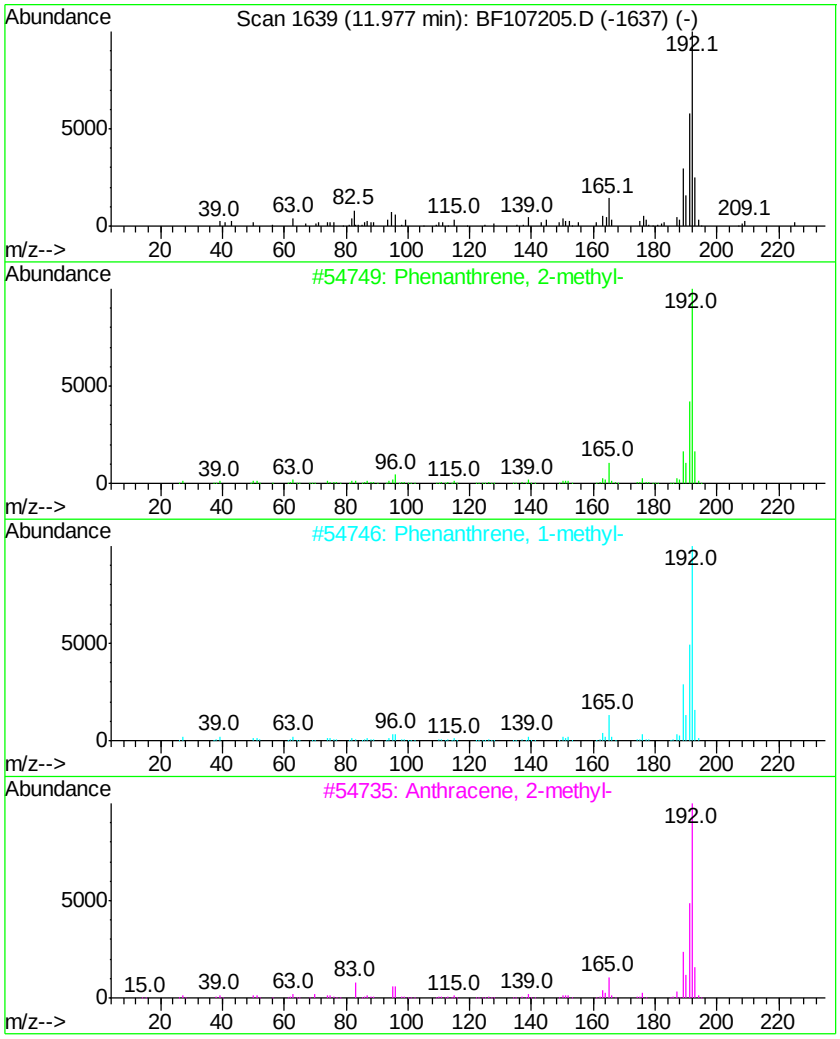
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

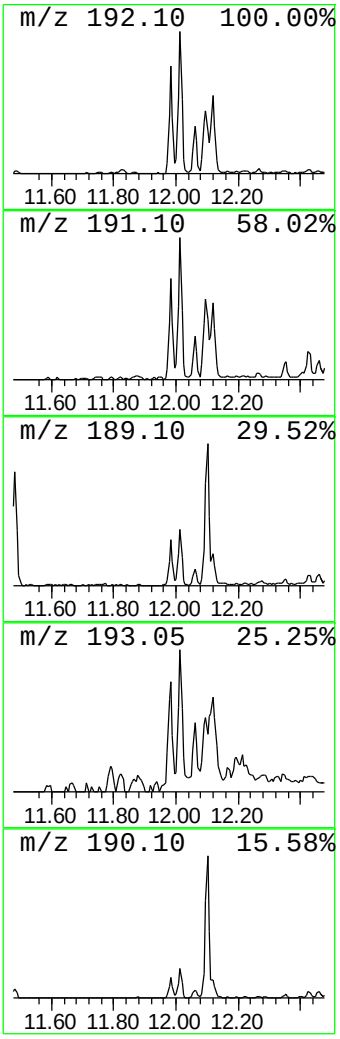
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	4.95 ng	101672	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

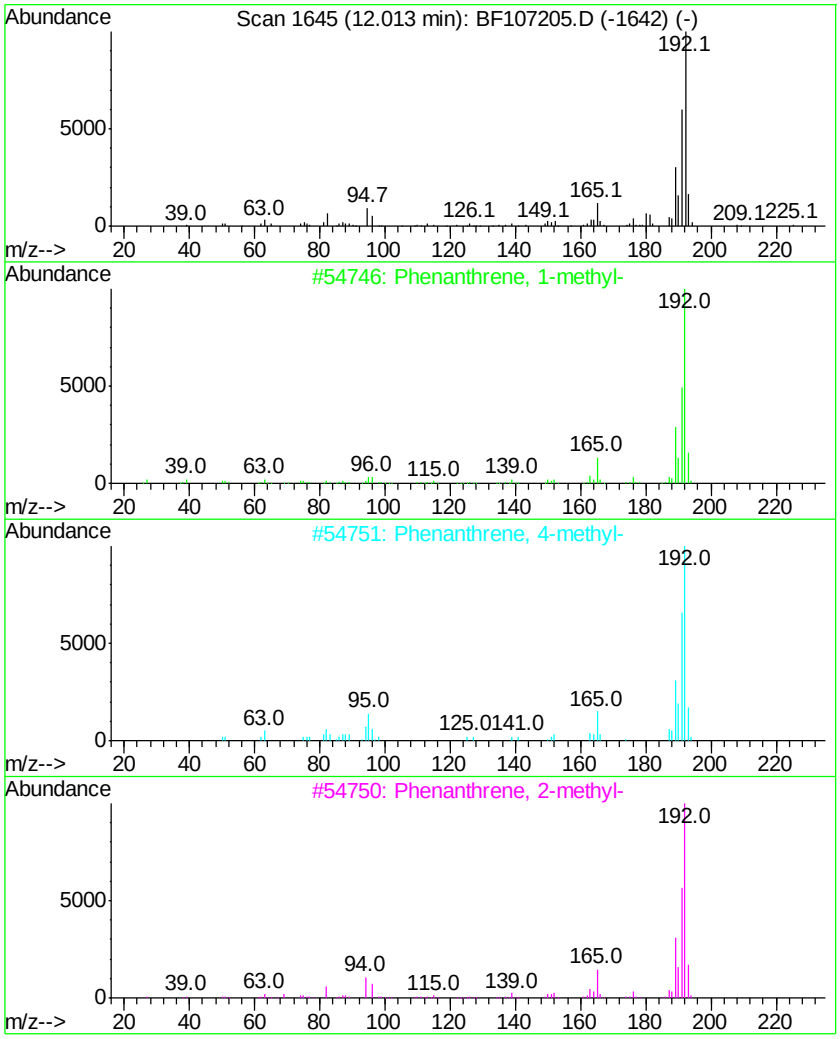
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

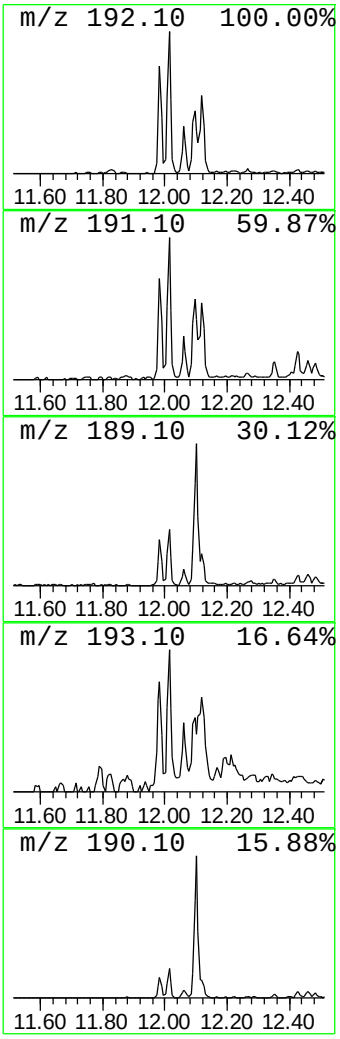
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	5.71 ng	117384	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

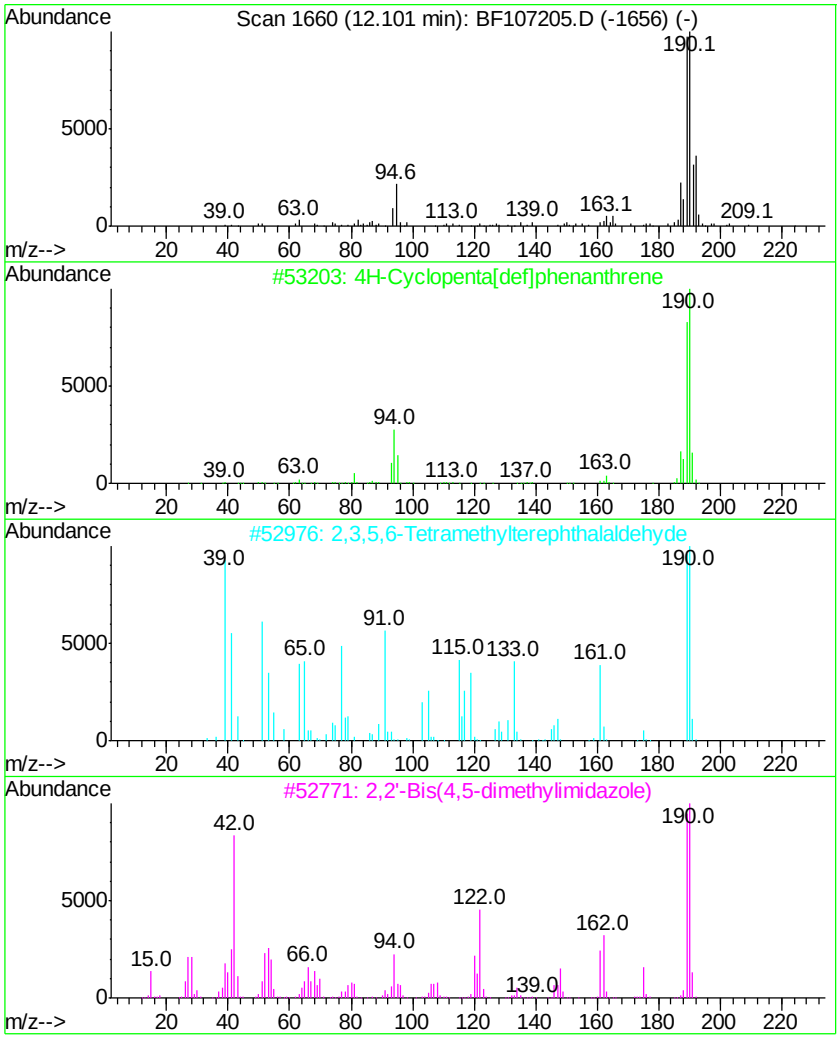
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

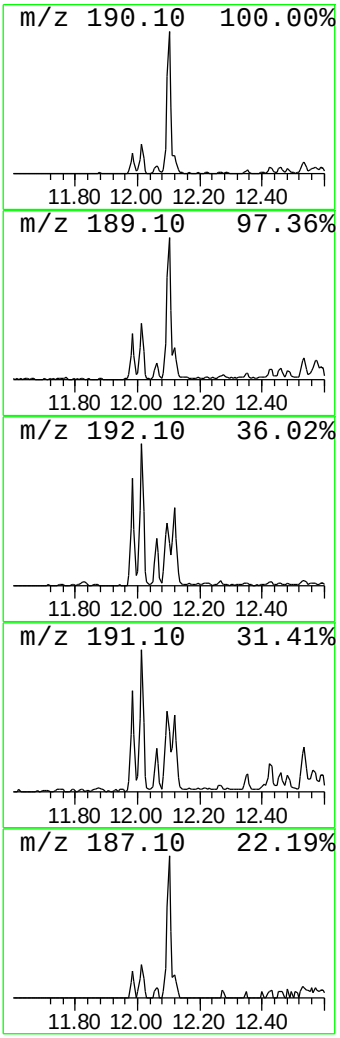
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	8.52 ng	175044	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	81
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4	Pyrimidine, 2-chloro-5-phenyl-	190	C10H7ClN2	022536-62-5	25
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

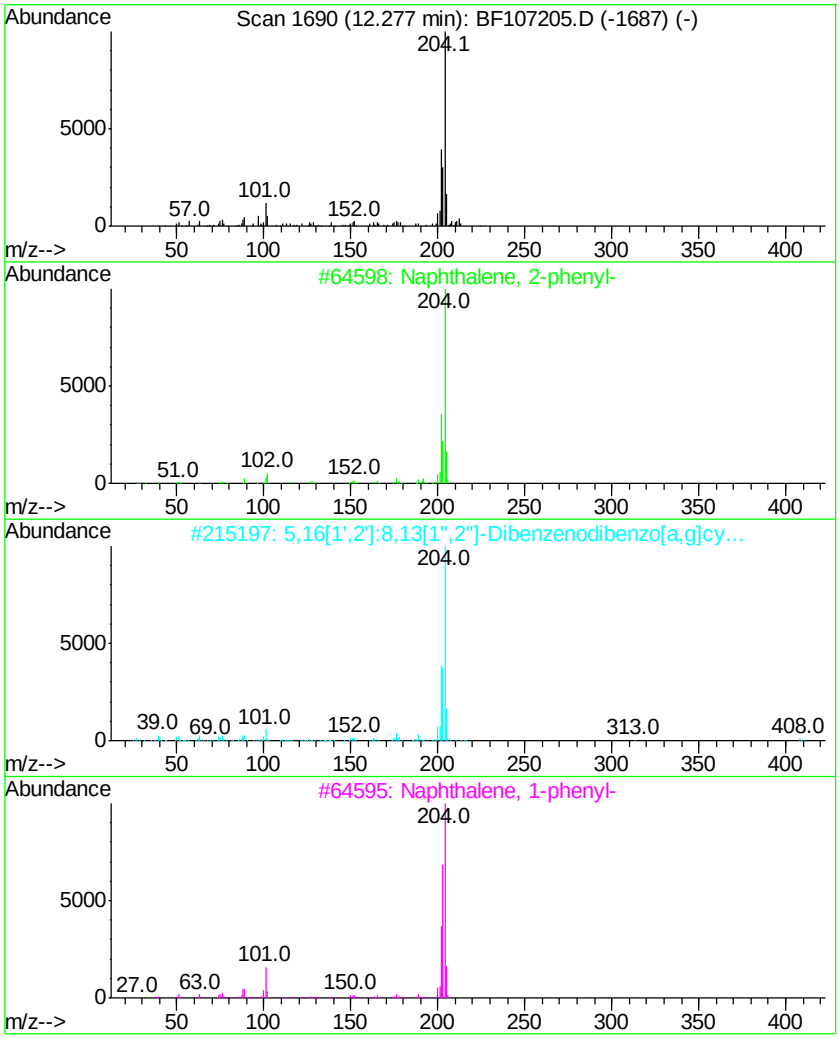
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

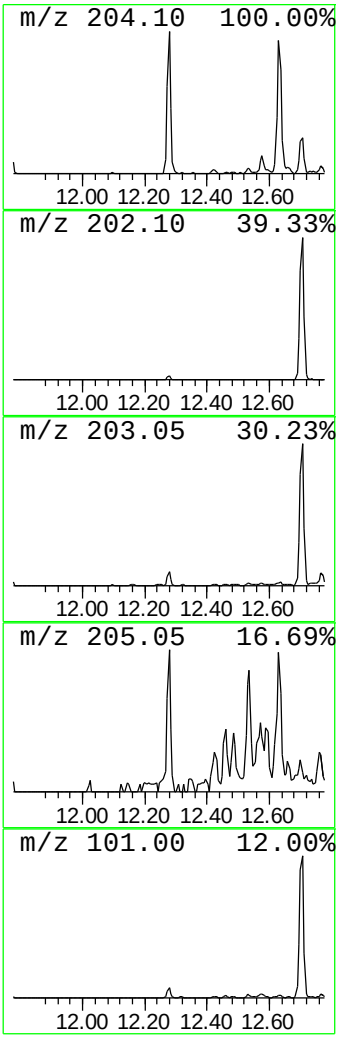
****

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	4.26 ng	87467	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

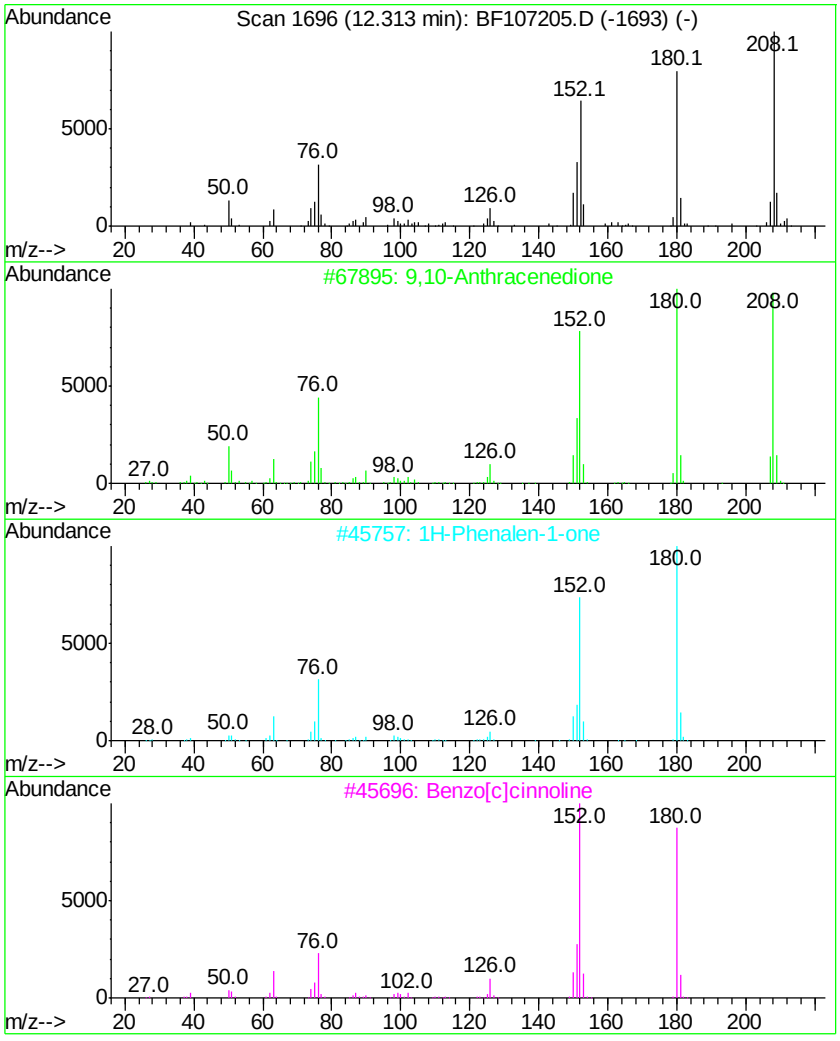
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

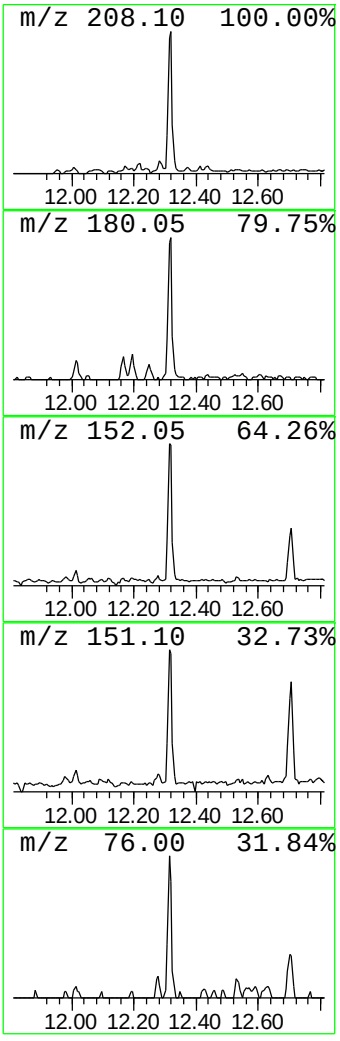
****

Peak Number 9 9,10-Anthracenedione Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.31	5.54 ng	113805	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	55
4	Naphthalene, 1,2,3,4-tetrahydro-...	208	C16H16	003018-20-0	50
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	49





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

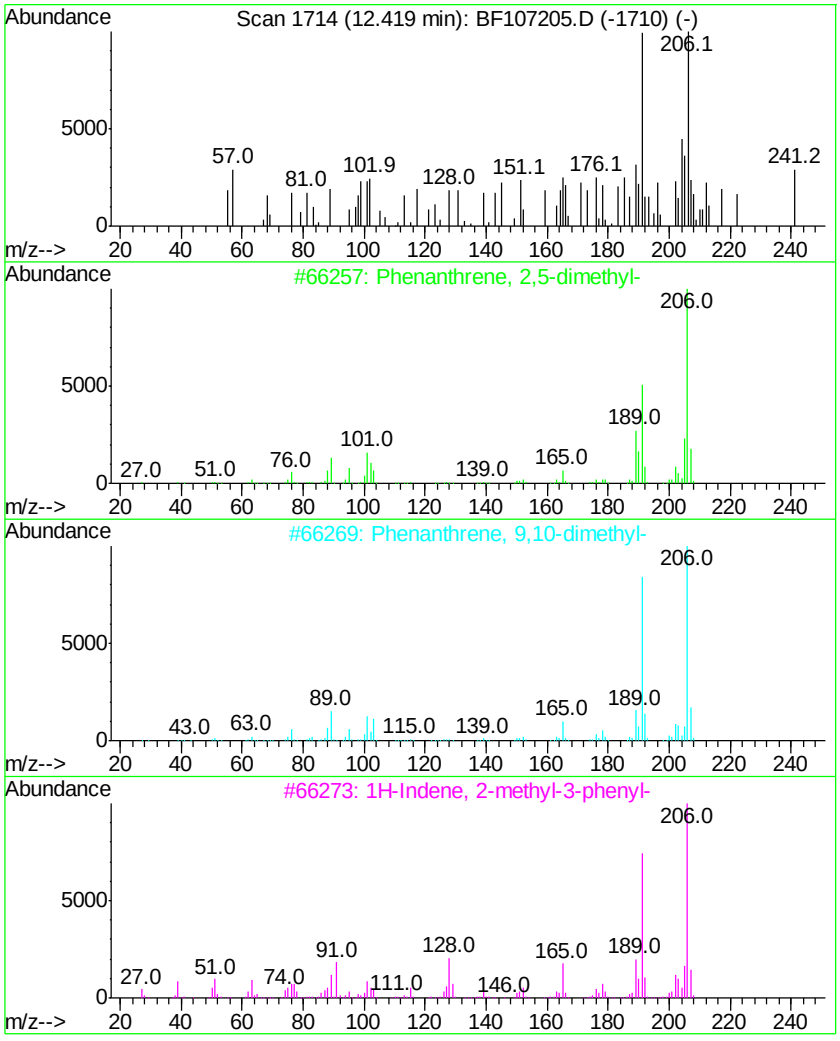
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

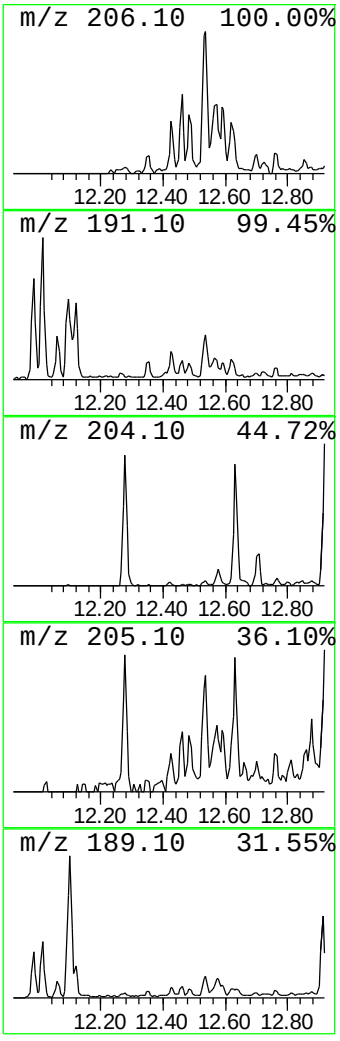
****

Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	2.77 ng	56982	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	93
3	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	90
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

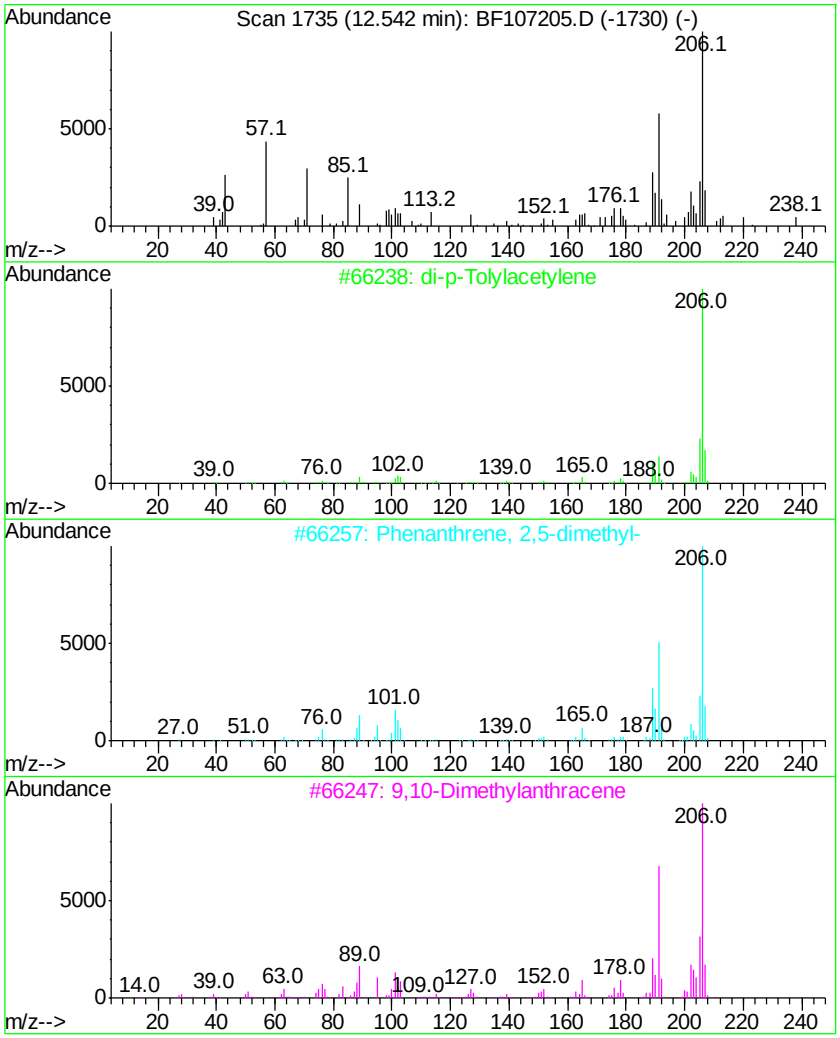
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

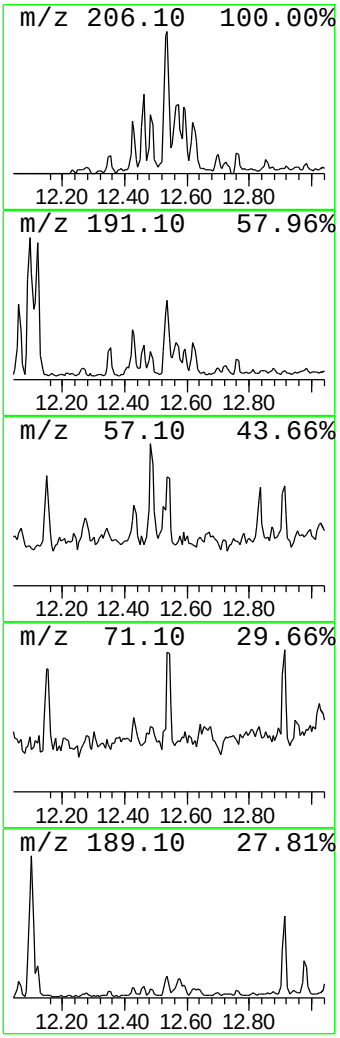
****

Peak Number 11 di-p-Tolylacetylene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	4.32 ng	88818	Phenanthrene-d10	11.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

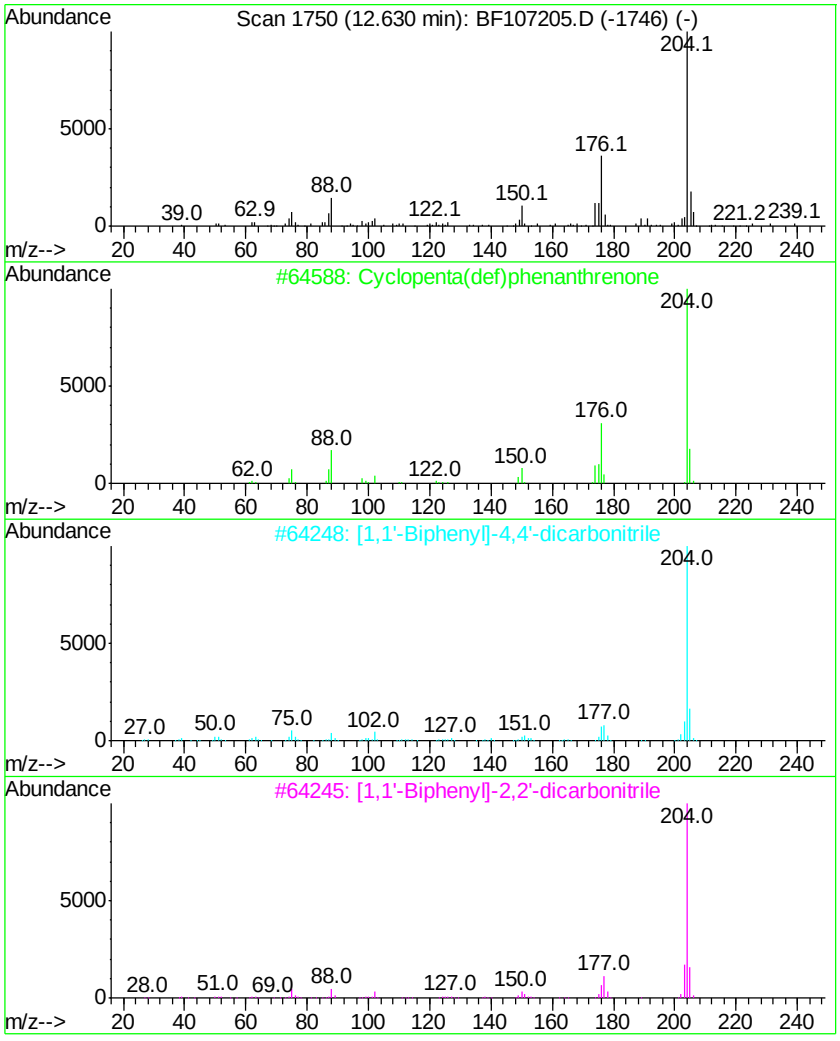
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

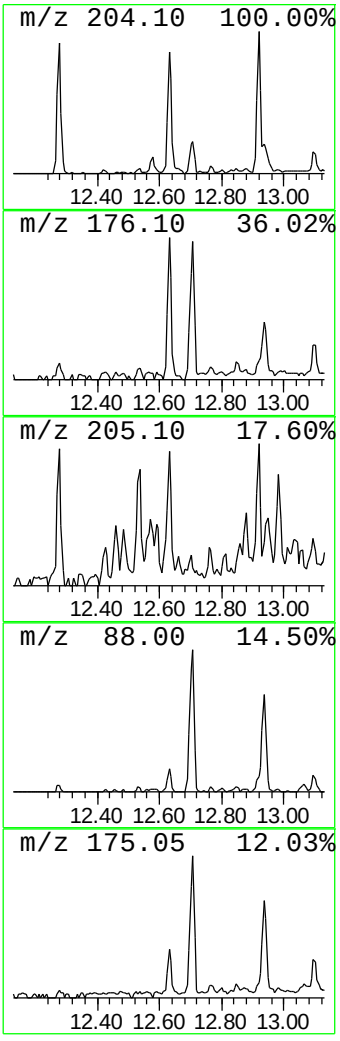
****

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	5.20 ng	106817	Phenanthrene-d10	11.48

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	72
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	59
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	53
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

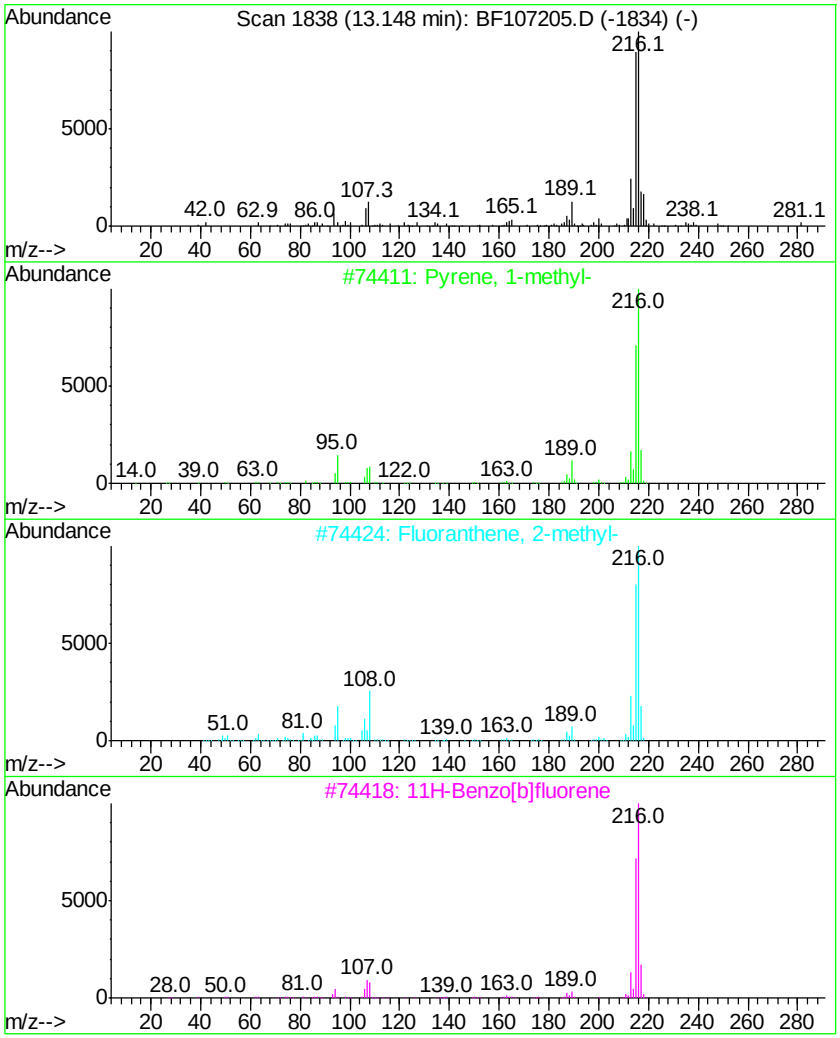
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

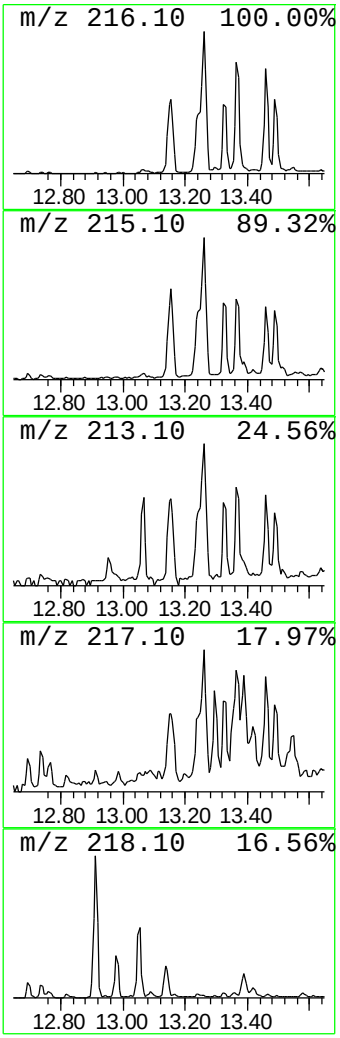
****

Peak Number 13 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.49 ng	146734	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	76
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	59





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

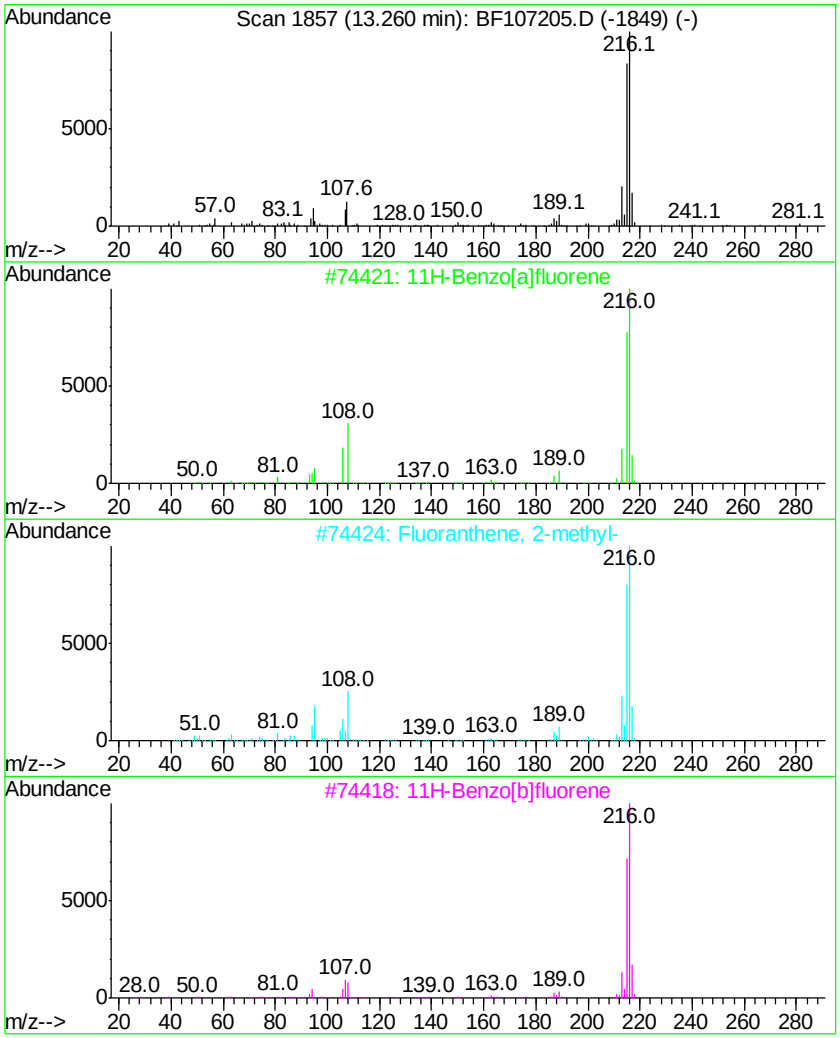
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

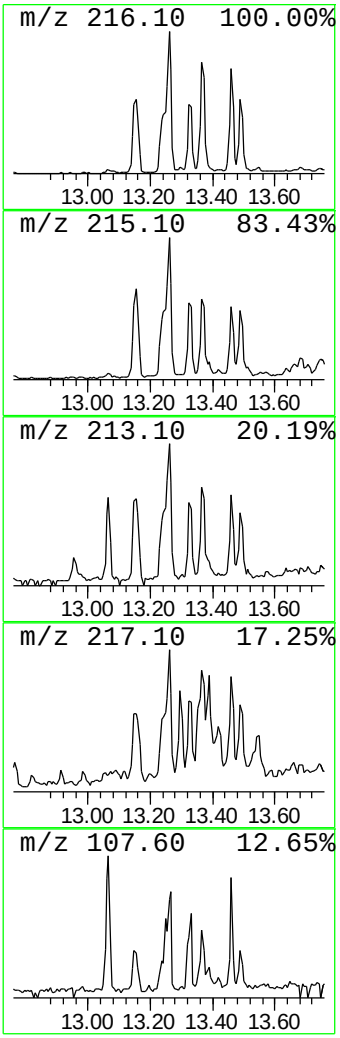
****

Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.26	4.57 ng	268897	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

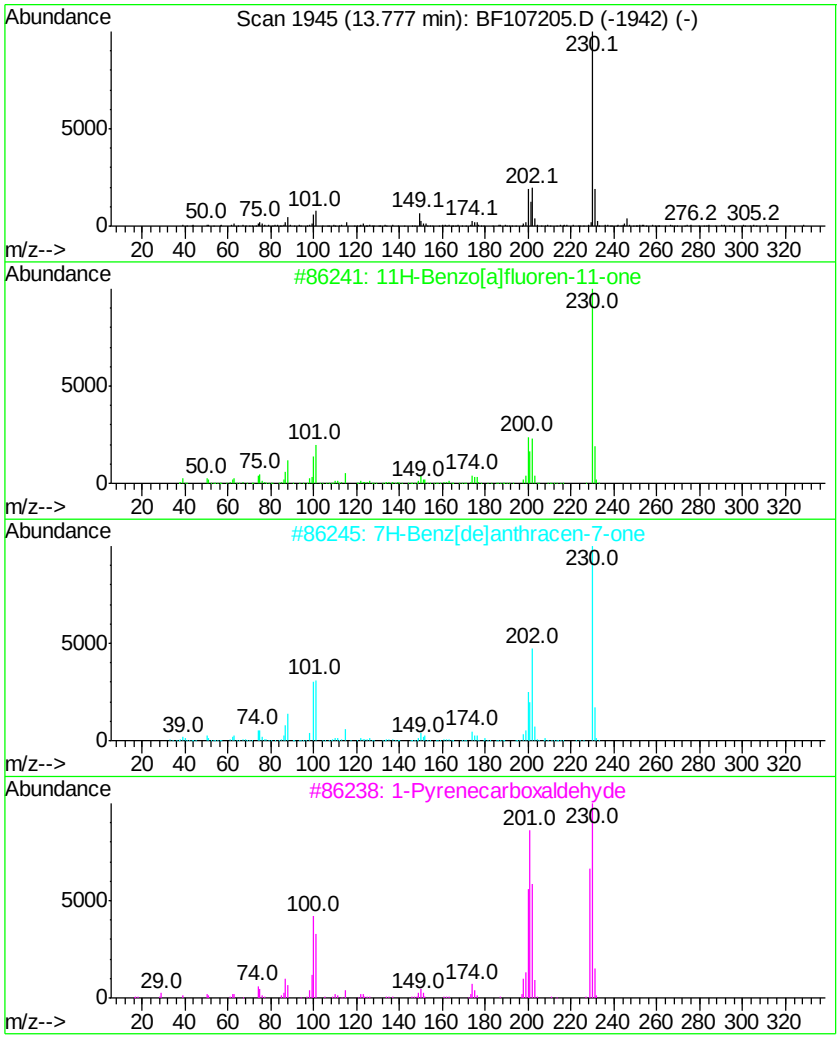
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

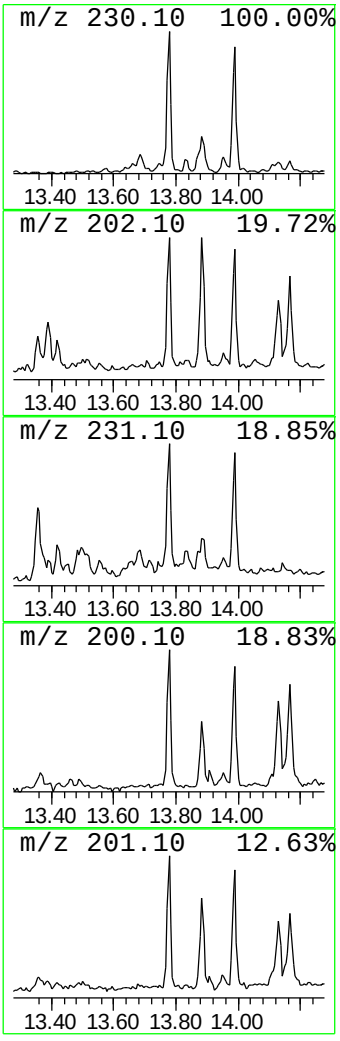
****

Peak Number 15 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.78	2.94 ng	172956	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	97
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	p-Terphenyl	230	C18H14	000092-94-4	53
5	m-Terphenyl	230	C18H14	000092-06-8	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

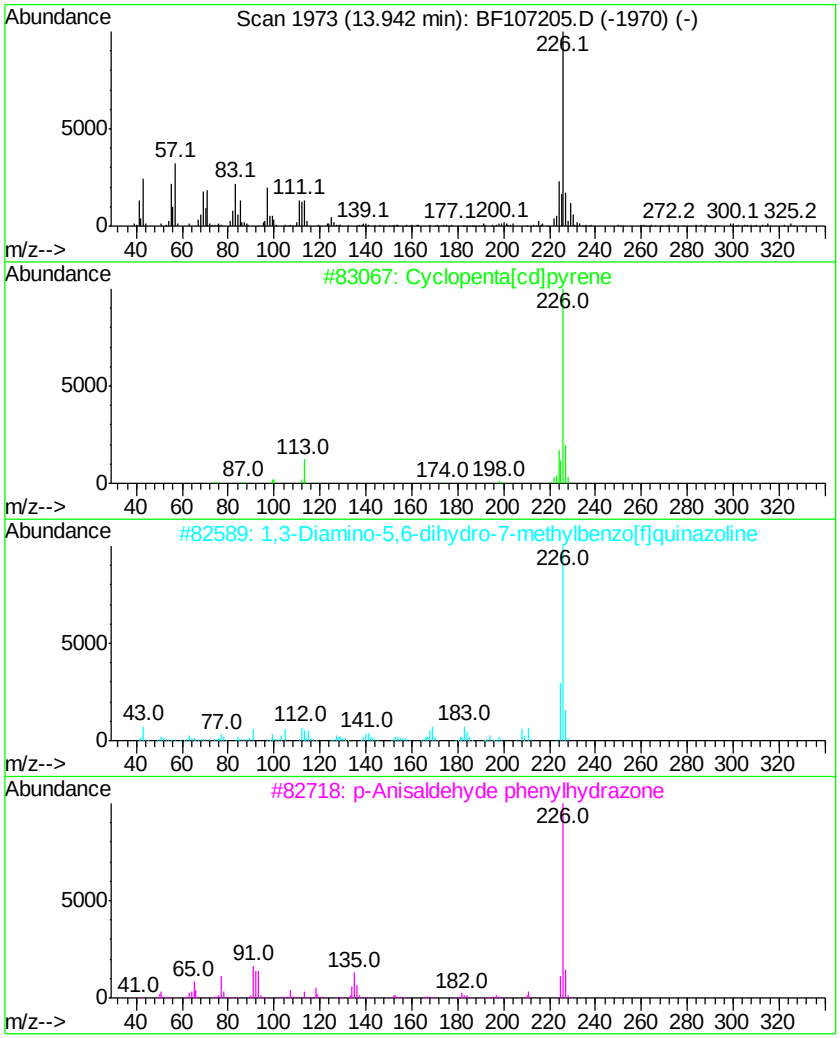
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

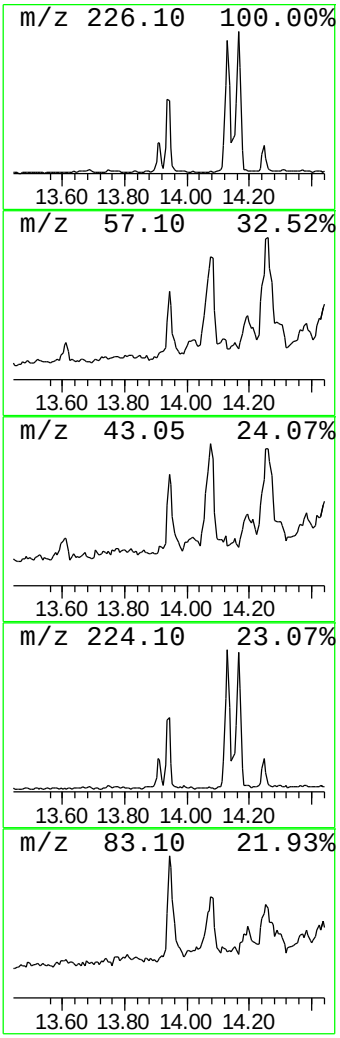
****

Peak Number 16 Cyclopenta[cd]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	4.75 ng	279624	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	53
2	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	43
3	p-Anisaldehyde phenylhydrazone	226	C14H14N2O	000622-73-1	43
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	38
5	Phosphoric acid,di-(4-nitropheny...	833	C42H49BrN3O8P	049840-37-1	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

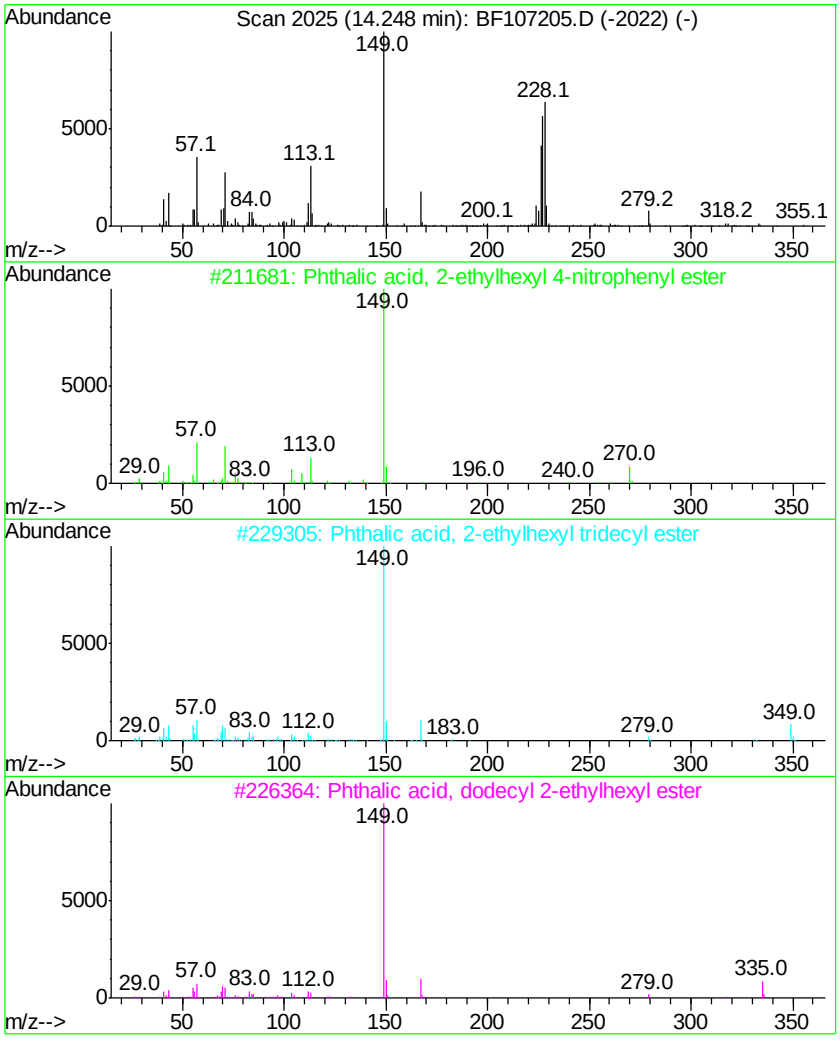
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

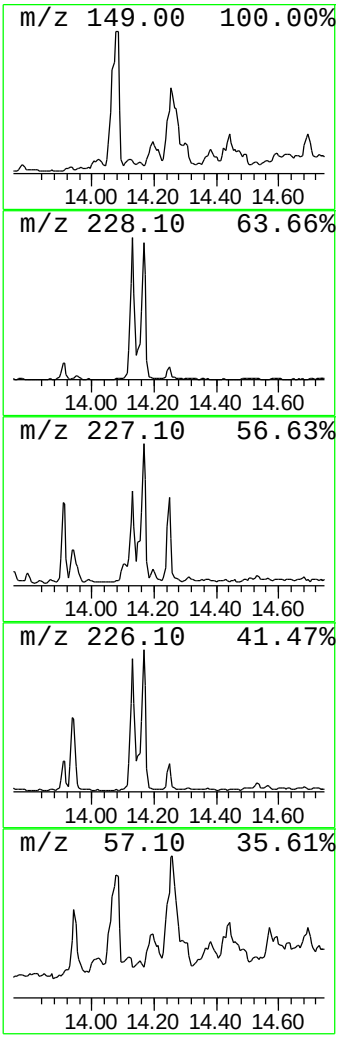
****

Peak Number 17 Phthalic acid, 2-ethylhexyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	7.03 ng	413962	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic acid, 2-ethylhexyl 4-ni...	399	C22H25NO6	1000315-52-1	50
2	Phthalic acid, 2-ethylhexyl trid...	460	C29H48O4	1000308-99-0	49
3	Phthalic acid, dodecyl 2-ethylhe...	446	C28H46O4	1000309-05-0	47
4	Phthalic acid, 2-propylpentyl tr...	460	C29H48O4	1000377-92-9	47
5	Phthalic acid, dodecyl octyl ester	446	C28H46O4	1000308-91-7	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

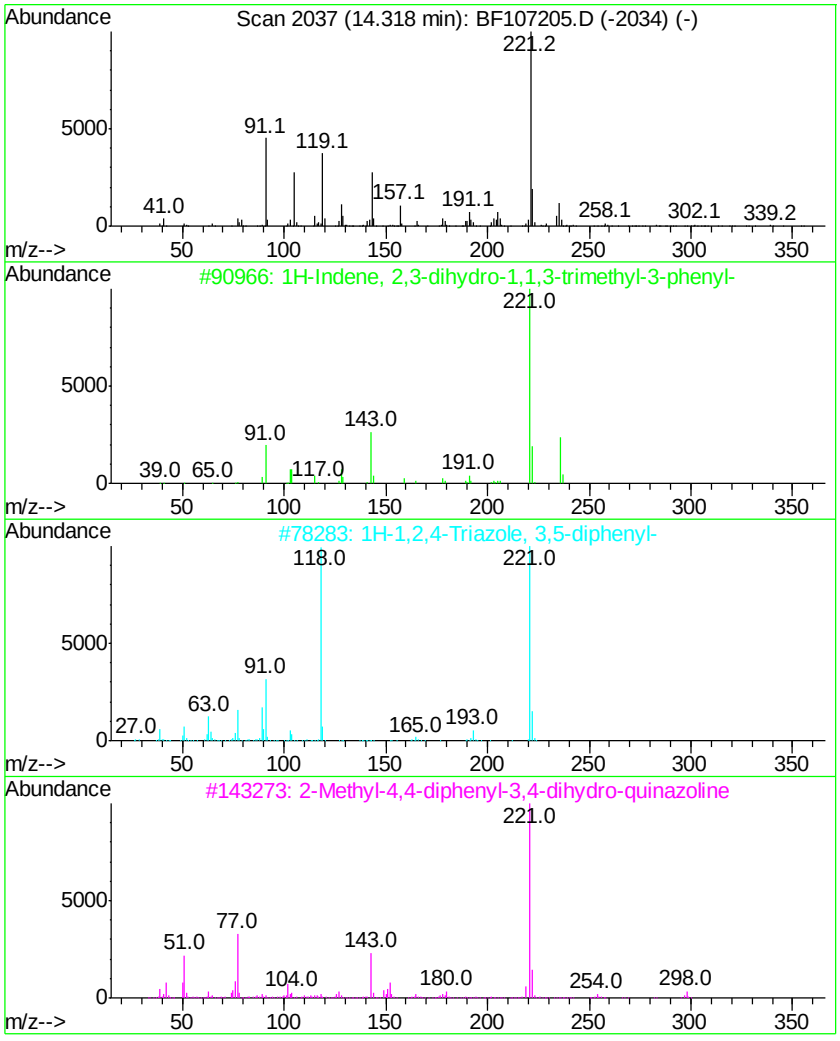
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

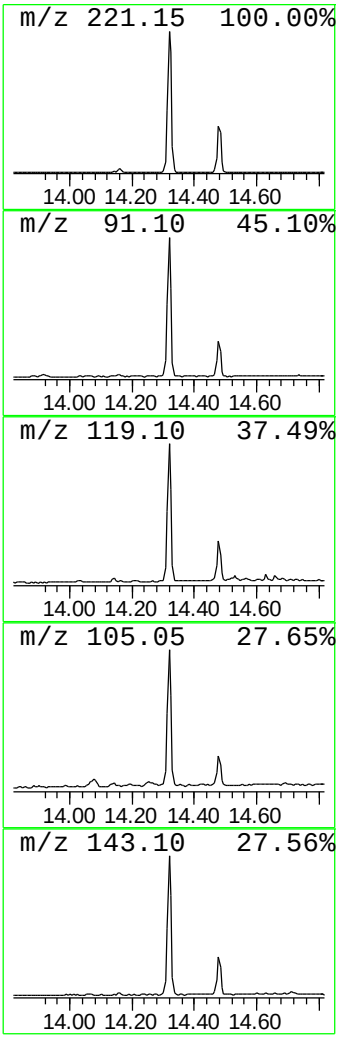
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.32	9.96 ng	586518	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1,3-tri...	236	C18H20	003910-35-8	50
2	1H-1,2,4-Triazole, 3,5-diphenyl-	221	C14H11N3	002039-06-7	38
3	2-Methyl-4,4-diphenyl-3,4-dihydr...	298	C21H18N2	1000300-40-0	38
4	2-Pentene, 4-methyl-2,4-diphenyl-	236	C18H20	006258-73-7	37
5	4,6-Dimethyl-2-thioxo-1,2-dihydr...	236	C11H16N2SSi	1000332-43-1	32





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

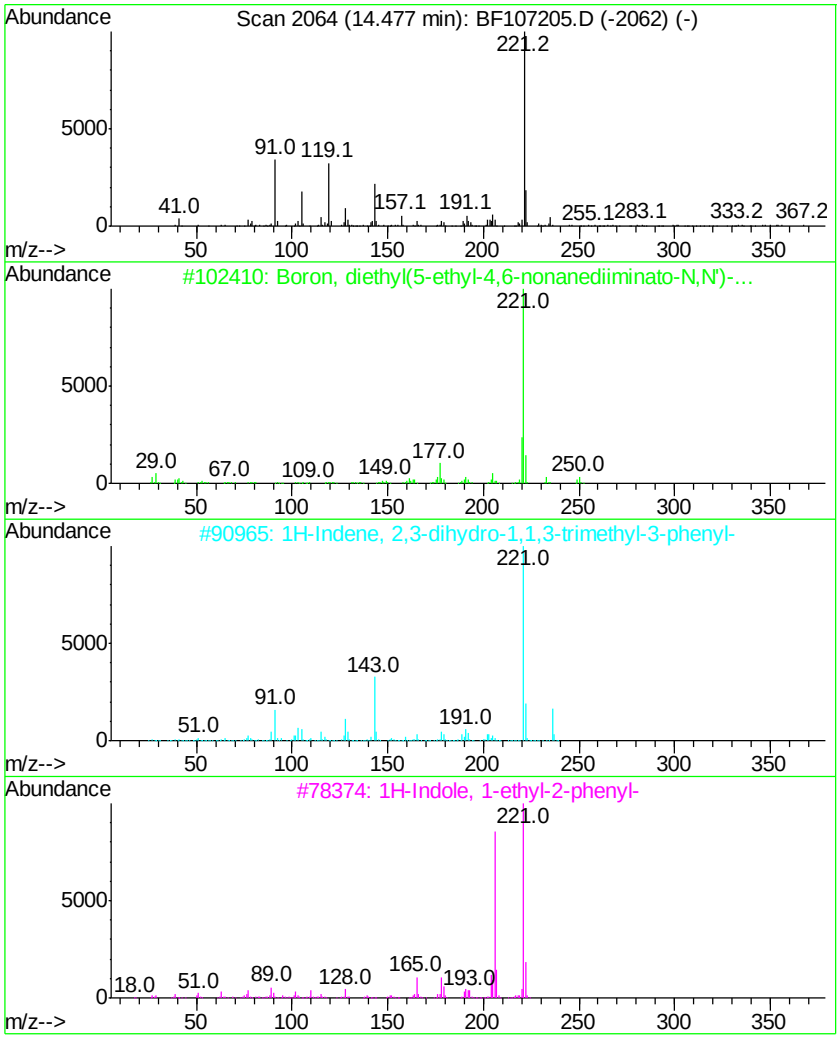
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

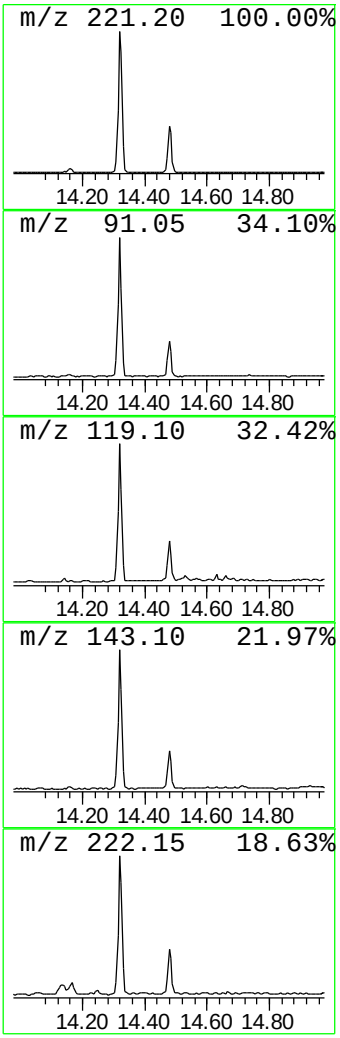
****

Peak Number 19 unknown14.48 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.48	3.06 ng	180154	Chrysene-d12	14.14

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Boron, diethyl(5-ethyl-4,6-nonan...	250	C15H31BN2	136705-03-8	47
2	1H-Indene, 2,3-dihydro-1,1,3-tri...	236	C18H20	003910-35-8	45
3	1H-Indole, 1-ethyl-2-phenyl-	221	C16H15N	013228-39-2	43
4	(Z)-Hex-3-enyl trimethylsilyl ph...	320	C17H24O4Si	1000373-65-8	38
5	Oxalamic acid, N-[4-(3,4-dimetho...	351	C18H25NO6	1000295-43-8	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

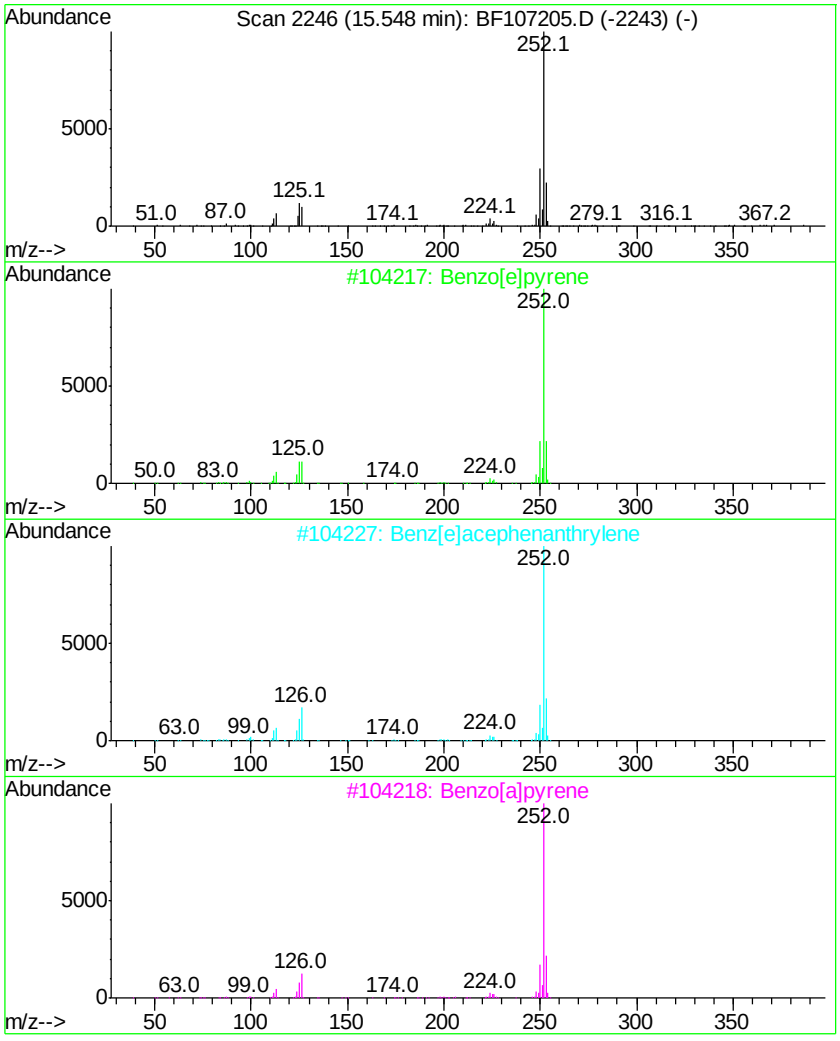
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

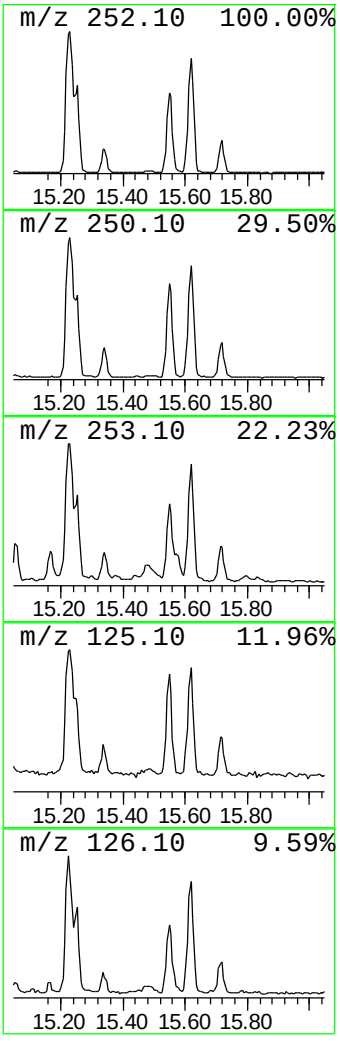
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	21.49 ng	265026	Perylene-d12	15.68

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	91
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF070718\
Data File : BF107205.D
Acq On : 7 Jul 2018 14:42
Operator : JU/SJ
Sample : J3881-05
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SURCHARGE-SP-23

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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...	5.18	8.2	ng	131160	1	6.94	319948	20.0
unknown6.72	6.72	57.2	ng	915538	1	6.94	319948	20.0
9H-Fluoren-9-one	11.29	2.6	ng	54065	4	11.48	411091	20.0
Phenanthrene, 2-m...	11.98	5.0	ng	101672	4	11.48	411091	20.0
Phenanthrene, 1-m...	12.01	5.7	ng	117384	4	11.48	411091	20.0
4H-Cyclopenta[def...	12.10	8.5	ng	175044	4	11.48	411091	20.0
Naphthalene, 2-ph...	12.28	4.3	ng	87467	4	11.48	411091	20.0
9,10-Anthracenedione	12.31	5.5	ng	113805	4	11.48	411091	20.0
Phenanthrene, 2,5...	12.42	2.8	ng	56982	4	11.48	411091	20.0
di-p-Tolylacetylene	12.54	4.3	ng	88818	4	11.48	411091	20.0
Cyclopenta(def)ph...	12.63	5.2	ng	106817	4	11.48	411091	20.0
Pyrene, 1-methyl-	13.15	2.5	ng	146734	5	14.14	1177430	20.0
11H-Benzo[a]fluorene	13.26	4.6	ng	268897	5	14.14	1177430	20.0
11H-Benzo[a]fluor...	13.78	2.9	ng	172956	5	14.14	1177430	20.0
Cyclopenta[cd]pyrene	13.94	4.8	ng	279624	5	14.14	1177430	20.0
Phthalic acid, 2-...	14.25	7.0	ng	413962	5	14.14	1177430	20.0
1H-Indene, 2,3-di...	14.32	10.0	ng	586518	5	14.14	1177430	20.0
unknown14.48	14.48	3.1	ng	180154	5	14.14	1177430	20.0
Benzo[e]pyrene	15.55	21.5	ng	265026	6	15.68	246622	20.0