LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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-BF020320.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	5.434	565	569	584	rVB	3377025	3485385	57.90%	3.378%
2	6.451	738	742	749	rBV	3525078	3386830	56.26%	3.282%
3	6.810	800	803	807	rBV	1265718	1152920	19.15%	1.117%
4	6.969	826	830	834	rBV	3618713	3182608	52.87%	3.084%
5	7.375	890	899	902	rBV	3183053	3047568	50.62%	2.953%
6	8.092	1017	1021	1031	rBV	2103077	2191224	36.40%	2.124%
7	8.810	1138	1143	1146	rBV	222104	212822	3.54%	0.206%
8	8.904	1156	1159	1163	rBV	198136	176441	2.93%	0.171%
9	9.169	1200	1204	1216	rBV	5123845	5086889	84.50%	4.930%
10	9.433	1245	1249	1253	rBV	106993	145885	2.42%	0.141%
11	9.510	1258	1262	1264	rVV	197947	207008	3.44%	0.201%
12	9.533	1264	1266	1268	rVV	161376	131740	2.19%	0.128%
13	9.563	1268	1271	1276	rVV2	190200	248896	4.13%	0.241%
14	9.627	1279	1282	1287	rVV	107045	134369	2.23%	0.130%
15	9.710	1291	1296	1303	rBV	307286	286495	4.76%	0.278%
16	9.845	1313	1319	1323	rBV	1946586	2022400	33.59%	1.960%
17	9.880	1323	1325	1329	rVB	338345	294211	4.89%	0.285%
18	10.051	1350	1354	1358	rVV	328308	294020	4.88%	0.285%
19	10.257	1385	1389	1391	rBV3	99785	131942	2.19%	0.128%
20	10.392	1409	1412	1418	rVB2	628431	621024	10.32%	0.602%
21	10.551	1436	1439	1443	rVB	207208	176289	2.93%	0.171%
22	10.639	1448	1454	1459	rBV	3914896	3892808	64.66%	3.773%
23	10.769	1470	1476	1481	rVB2	190223	315439	5.24%	0.306%
24	10.945	1498	1506	1508	rBV3	162654	242412	4.03%	0.235%
25	11.069	1522	1527	1529	rVV3	138658	177273	2.94%	0.172%
26	11.092	1529	1531	1536	rVV2	135427	174222	2.89%	0.169%
27	11.139	1536	1539	1543	rVV2	197228	214251	3.56%	0.208%
28	11.180	1543	1546	1548	rVV	144065	159876	2.66%	0.155%
29	11.227	1552	1554	1560	rVB	267554	263180	4.37%	0.255%
30	11.333	1568	1572	1574	rBV	2293582	2306974	38.32%	2.236%
31	11.357	1574	1576	1580	rVV	4228158	3726543	61.90%	3.611%
32	11.410	1580	1585	1588	rVV	1080315	1056979	17.56%	1.024%
33	11.439	1588	1590	1594	rVB2	122692	115988	1.93%	0.112%
34	11.563	1605	1611	1613	rBV2	198046	239130	3.97%	0.232%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.627	1619	1622	1625	rVV	216847	174682	2.90%	0.169%
36	11.663	1625	1628	1634	rVB2	159344	157719	2.62%	0.153%
37	11.833	1653	1657	1659	rBV	653112	576484	9.58%	0.559%
38	11.863	1659	1662	1666	rVV	1431462	1287968	21.39%	1.248%
39	11.910	1666	1670	1672	rVV	326255	323759	5.38%	0.314%
40	11.945	1672	1676	1678	rVV	1254296	1242017	20.63%	1.204%
41	11.969	1678	1680	1684	rVB	476334	402540	6.69%	0.390%
42	12.033	1689	1691	1694	rVB2	113188	102413	1.70%	0.099%
43	12.127	1704	1707	1709	rBV	471249	399164	6.63%	0.387%
44	12.151	1709	1711	1718	rVB2	270386	266852	4.43%	0.259%
45	12.274	1730	1732	1735	rVB	127549	114083	1.90%	0.111%
46	12.310	1735	1738	1740	rBV	171929	133906	2.22%	0.130%
47	12.333	1740	1742	1744	rVB	151423	116296	1.93%	0.113%
48	12.386	1744	1751	1754	rBV	407822	530177	8.81%	0.514%
49	12.421	1754	1757	1759	rVV	308730	319481	5.31%	0.310%
50	12.468	1762	1765	1770	rVB	369121	381784	6.34%	0.370%
51	12.551	1774	1779	1782	rBV	5986432	5831993	96.88%	5.652%
52	12.610	1787	1789	1792	rVB3	125747	102005	1.69%	0.099%
53	12.639	1792	1794	1797	rBV2	220481	228320	3.79%	0.221%
54	12.698	1801	1804	1807	rVV	176385	197716	3.28%	0.192%
55	12.780	1811	1818	1822	rBV2	4610724	5913928	98.24%	5.731%
56	12.821	1822	1825	1830	rVB2	260688	347160	5.77%	0.336%
57	12.892	1833	1837	1838	rBV	394906	378271	6.28%	0.367%
58	12.916	1838	1841	1848	rVB	5722841	6019983	100.00%	5.834%
59	12.992	1849	1854	1857	rBV2	443011	682119	11.33%	0.661%
60	13.080	1865	1869	1870	rVV3	336334	399657	6.64%	0.387%
61	13.104	1870	1873	1876	rVB	1042536	951595	15.81%	0.922%
62	13.168	1876	1884	1886	rBV	806593	899577	14.94%	0.872%
63	13.204	1886	1890	1893	rVV2	637906	647071	10.75%	0.627%
64	13.263	1897	1900	1903	rBV2	114118	108714	1.81%	0.105%
65	13.298	1903	1906	1908	rBV	296148	250753	4.17%	0.243%
66	13.327	1908	1911	1915	rBV	352904	322299	5.35%	0.312%
67	13.492	1934	1939	1943	rBV6	207744	465391	7.73%	0.451%
68	13.580	1952	1954	1956	rBV2	98343	116993	1.94%	0.113%
69	13.610	1956	1959	1963	rVB	325850	406033	6.74%	0.393%
70	13.715	1973	1977	1980	rBV3	440353	568682	9.45%	0.551%
71	13.745	1980	1982	1984	rVV	471518	394715	6.56%	0.383%

LSC Area Percent Report

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Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.768	1984	1986	1991	rVV2	364319	516099	8.57%	0.500%
73	13.815	1991	1994	1999	rVB	972157	1072226	17.81%	1.039%
74	13.962	2012	2019	2023	rBV3	3260262	5294923	87.96%	5.131%
75	13.998	2023	2025	2032	rVB	2689430	2291168	38.06%	2.220%
76	14.074	2036	2038	2042	rVB	499284	379413	6.30%	0.368%
77	14.115	2042	2045	2046	rBV	112699	116467	1.93%	0.113%
78	14.133	2046	2048	2050	rVV2	139268	103567	1.72%	0.100%
79	14.186	2055	2057	2061	rVV2	256811	348817	5.79%	0.338%
80	14.321	2077	2080	2082	rBV	122712	119069	1.98%	0.115%
81	14.357	2082	2086	2089	rVV	572051	585600	9.73%	0.568%
82	14.386	2089	2091	2095	rVB	269853	259768	4.32%	0.252%
83	14.451	2097	2102	2105	rVV2	400028	717557	11.92%	0.695%
84	14.480	2105	2107	2109	rVV	391297	383148	6.36%	0.371%
85	14.498	2109	2110	2114	rVB2	345107	290835	4.83%	0.282%
86	14.739	2148	2151	2154	rBV2	276124	267062	4.44%	0.259%
87	15.004	2191	2196	2204	rBV	2278941	4592736	76.29%	4.451%
88	15.074	2205	2208	2210	rVV	266269	301945	5.02%	0.293%
89	15.104	2210	2213	2217	rVB	499890	534852	8.88%	0.518%
90	15.192	2225	2228	2230	rBV3	132254	169913	2.82%	0.165%
91	15.298	2241	2246	2252	rBV	1218040	1855450	30.82%	1.798%
92	15.362	2252	2257	2262	rVV	2587175	3218102	53.46%	3.119%
93	15.421	2262	2267	2270	rVV	1760484	2460470	40.87%	2.384%
94	15.451	2270	2272	2278	rVB2	871855	1084146	18.01%	1.051%
95	15.968	2357	2360	2370	rVB3	261260	414752	6.89%	0.402%
96	16.856	2505	2511	2519	rVB2	955590	1934460	32.13%	1.875%
97	17.027	2535	2540	2545	rBV	175654	369136	6.13%	0.358%
98	17.086	2547	2550	2555	rVB2	116014	184792	3.07%	0.179%
99	17.292	2578	2585	2599	rVB	671701	1502449	24.96%	1.456%
100	17.521	2619	2624	2636	rVB2	217936	552845	9.18%	0.536%

Sum of corrected areas: 103186108

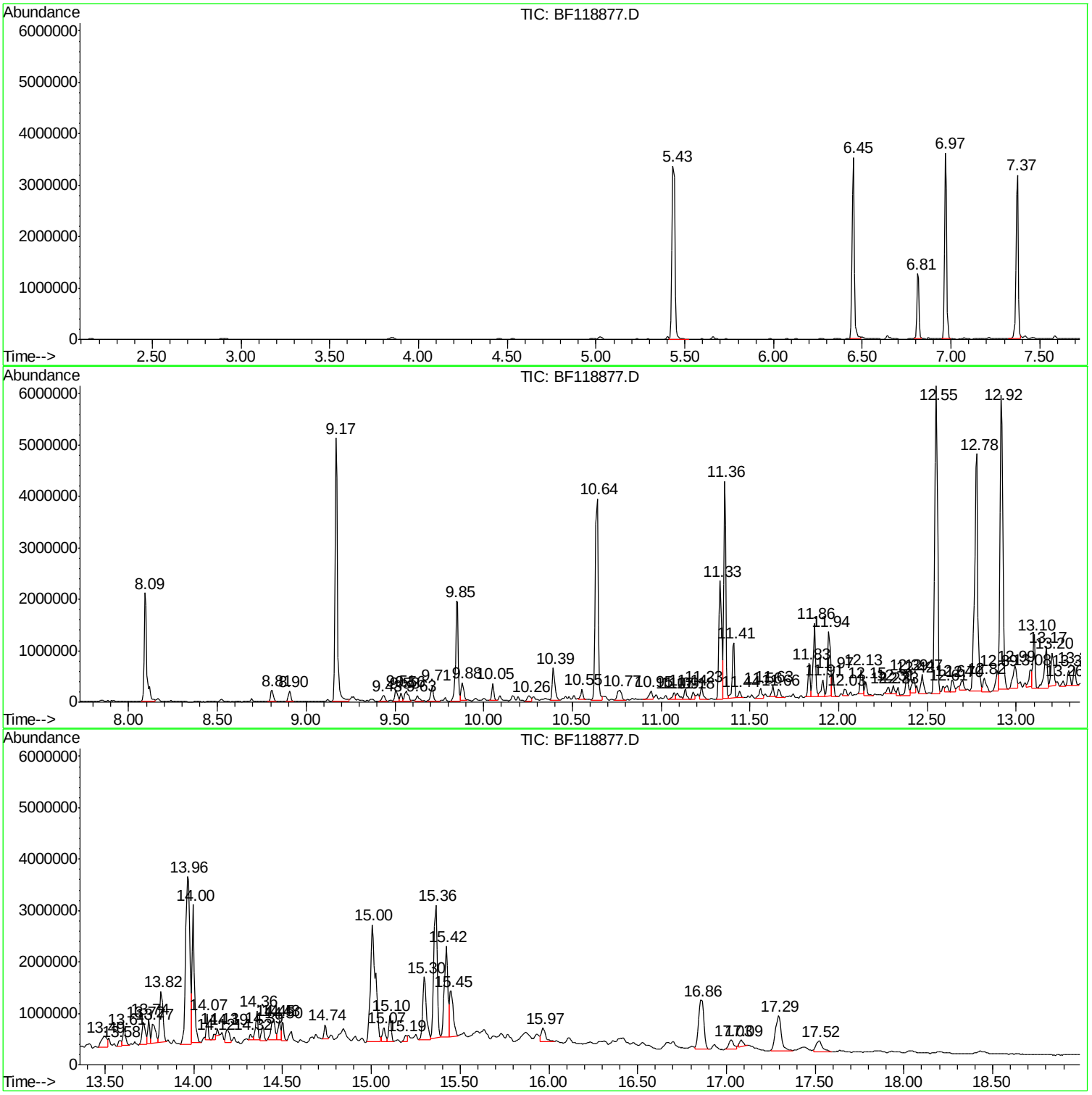
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

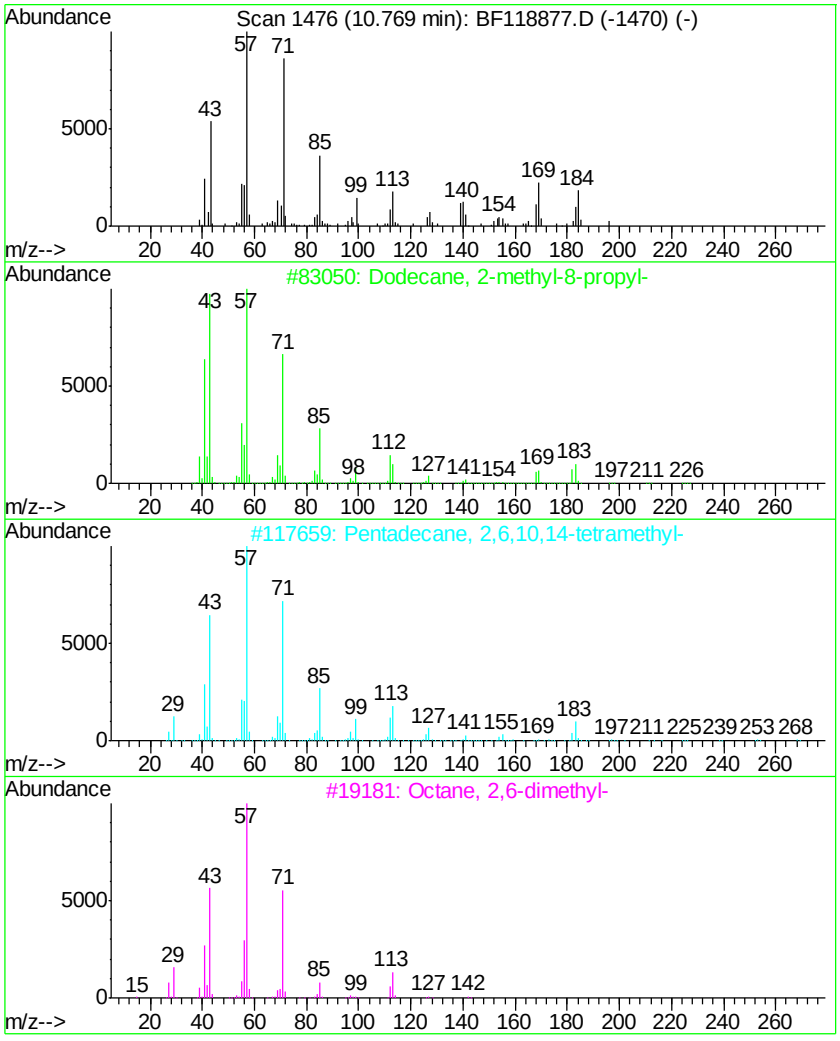
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

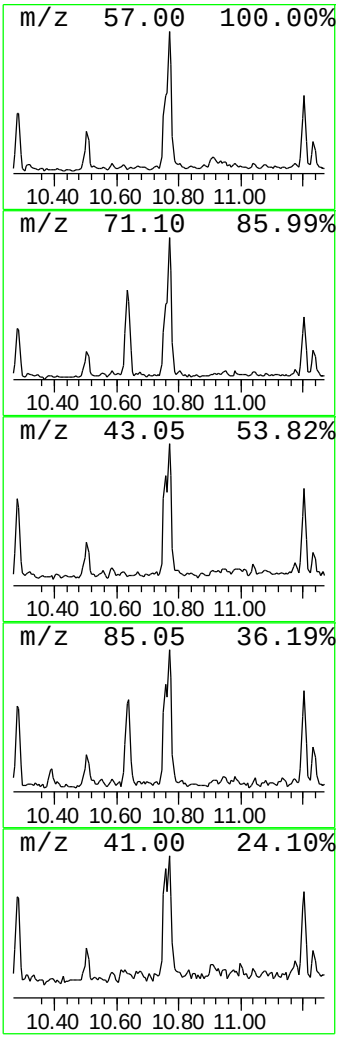
****

Peak Number 2 Dodecane, 2-methyl-8-propyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	2.73 ng	315439	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	64
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	58
3	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	55
4	Decane, 2-methyl-	156	C11H24	006975-98-0	53
5	Nonane, 5-propyl-	170	C12H26	000998-35-6	53





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

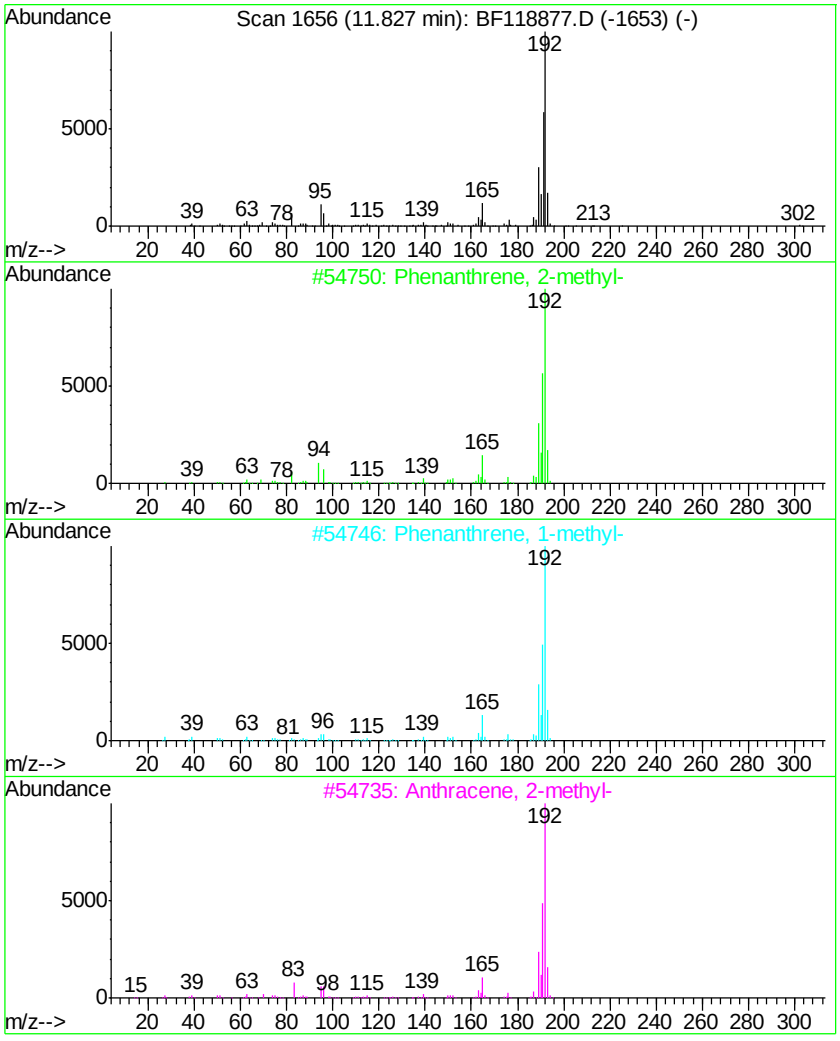
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

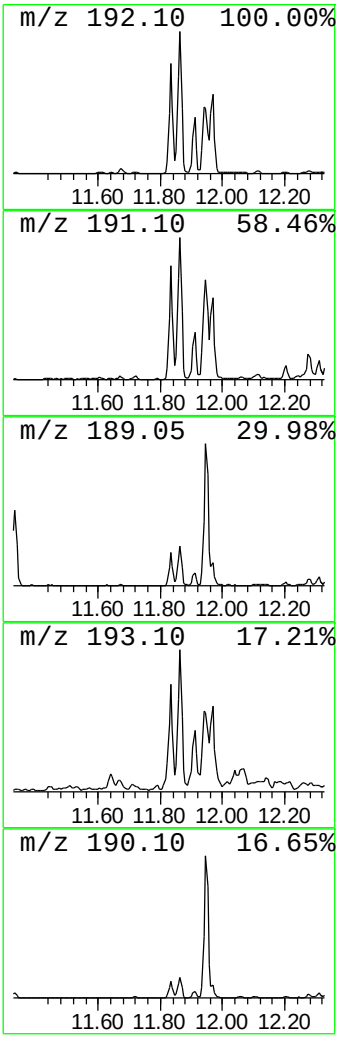
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	5.00 ng	576484	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

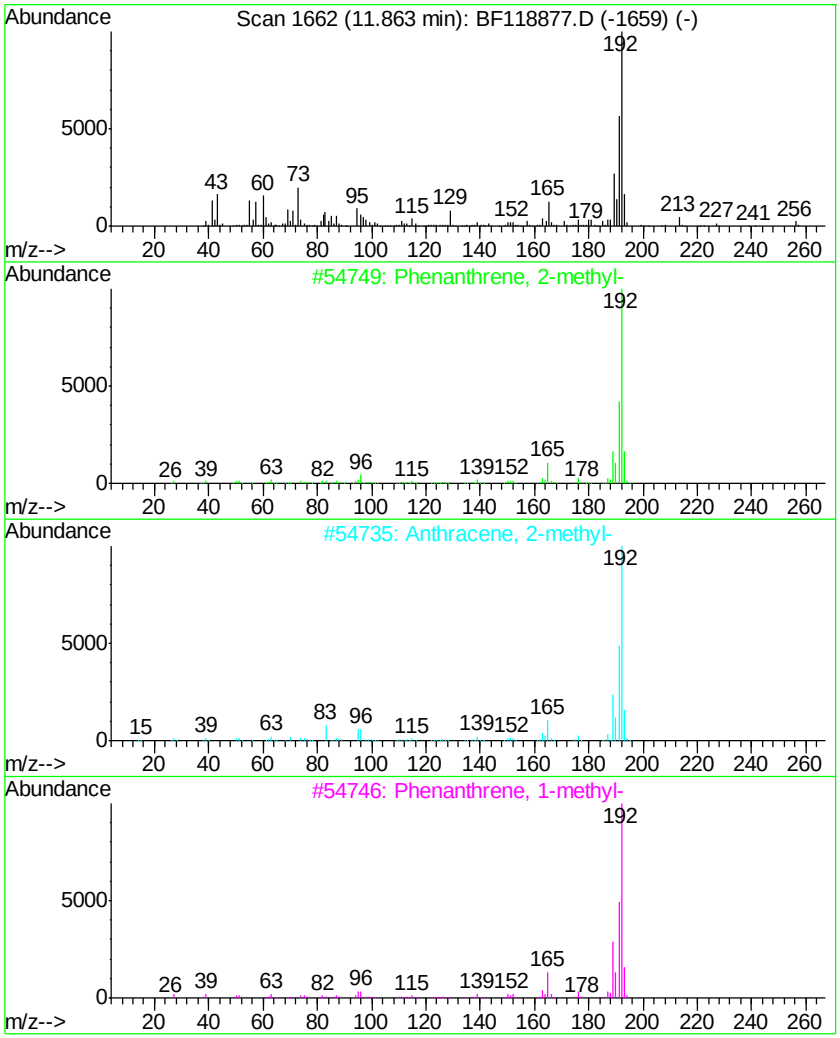
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

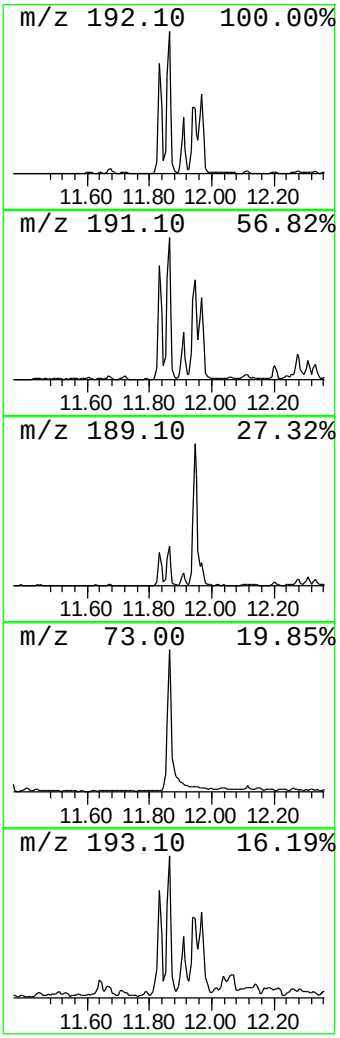
****

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	11.17 ng	1287970	Phenanthrene-d10	11.33

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	97
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

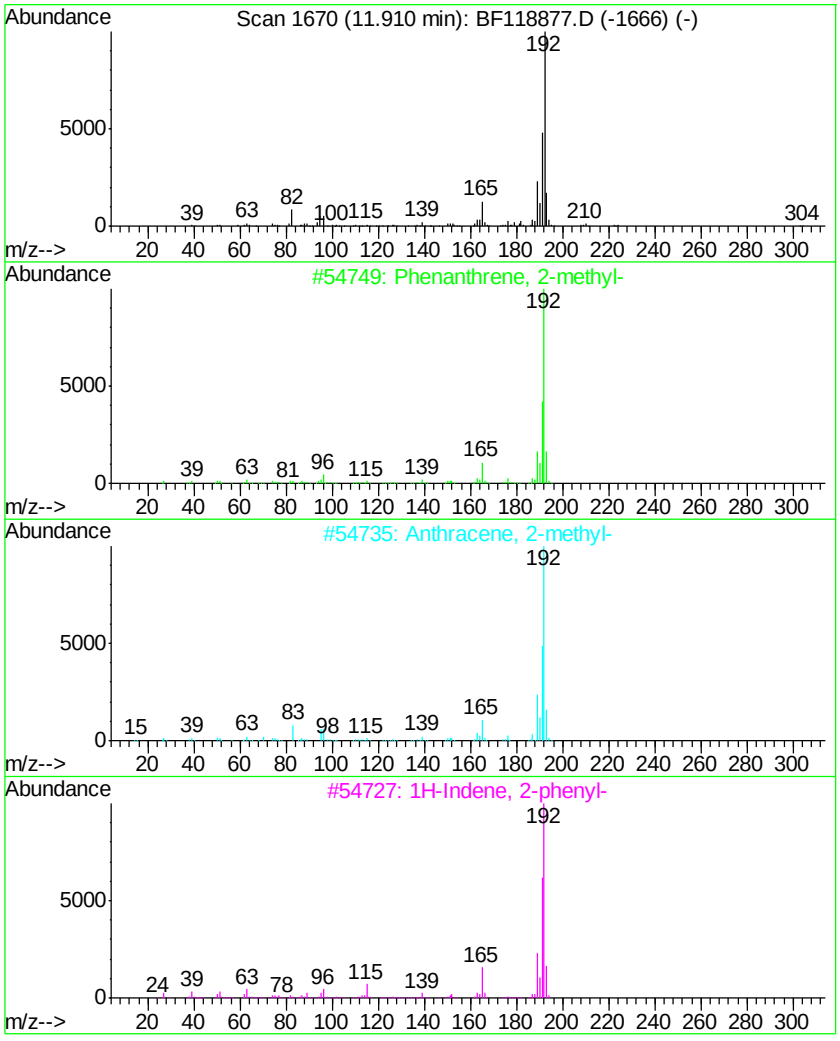
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

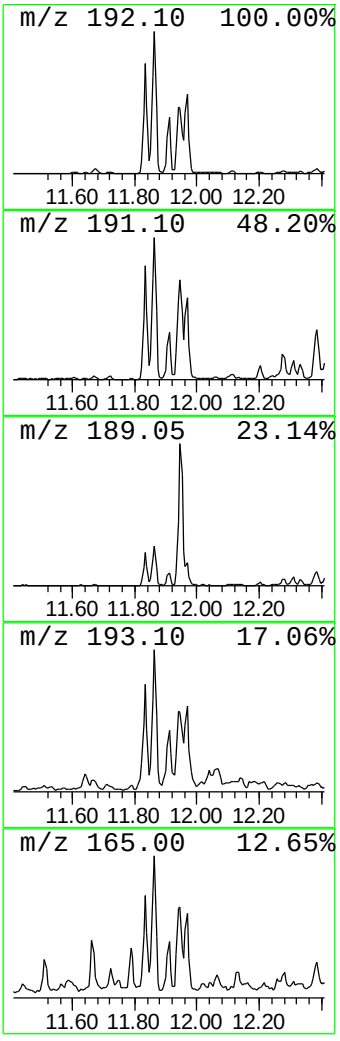
****

Peak Number 5 1H-Indene, 2-phenyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	2.81 ng	323759	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

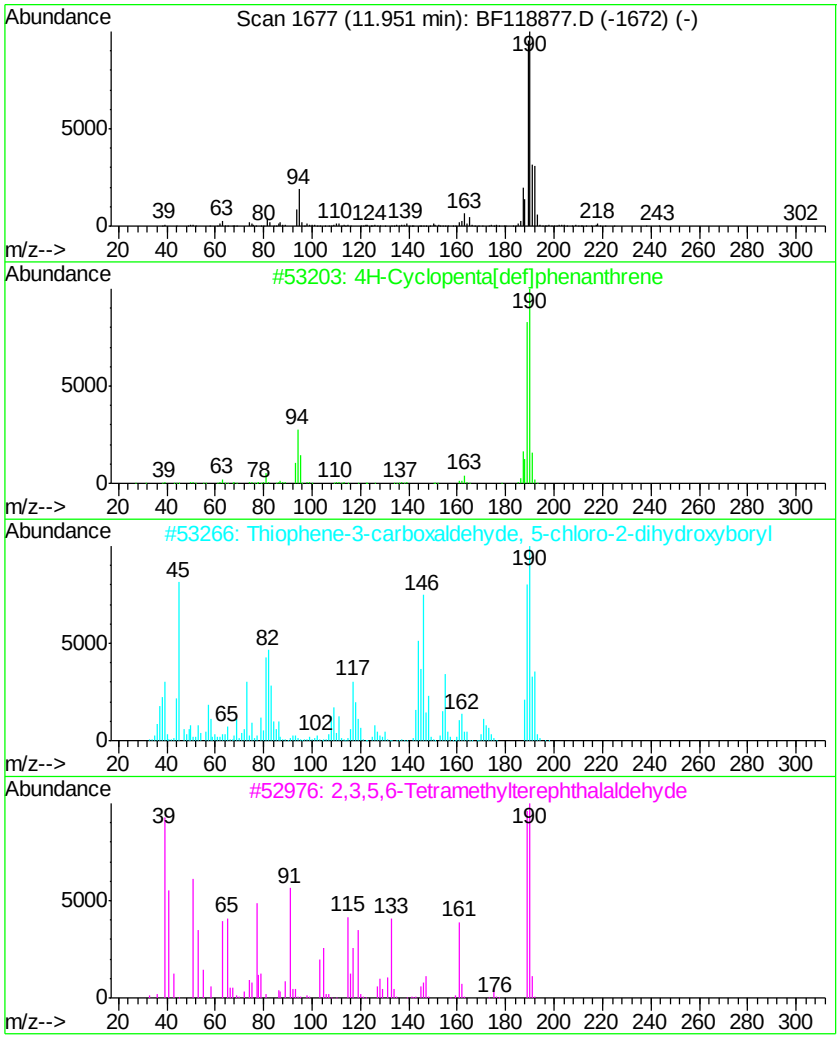
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

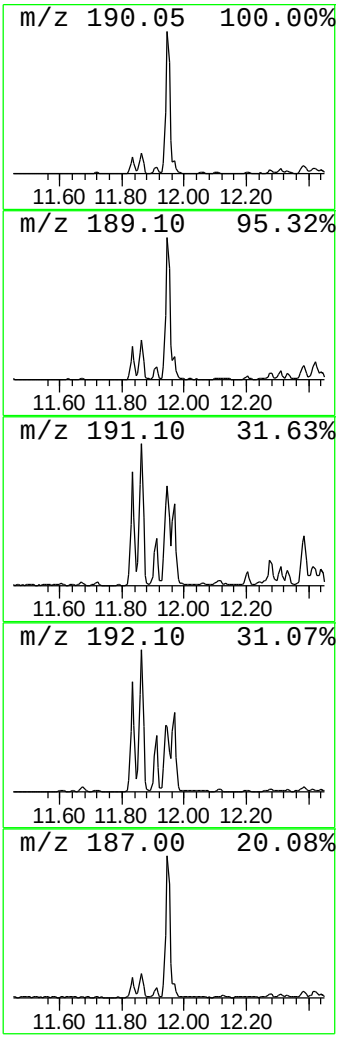
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	10.77 ng	1242020	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47
4	Methyl diselenide	190	C2H6Se2	007101-31-7	46
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	45





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Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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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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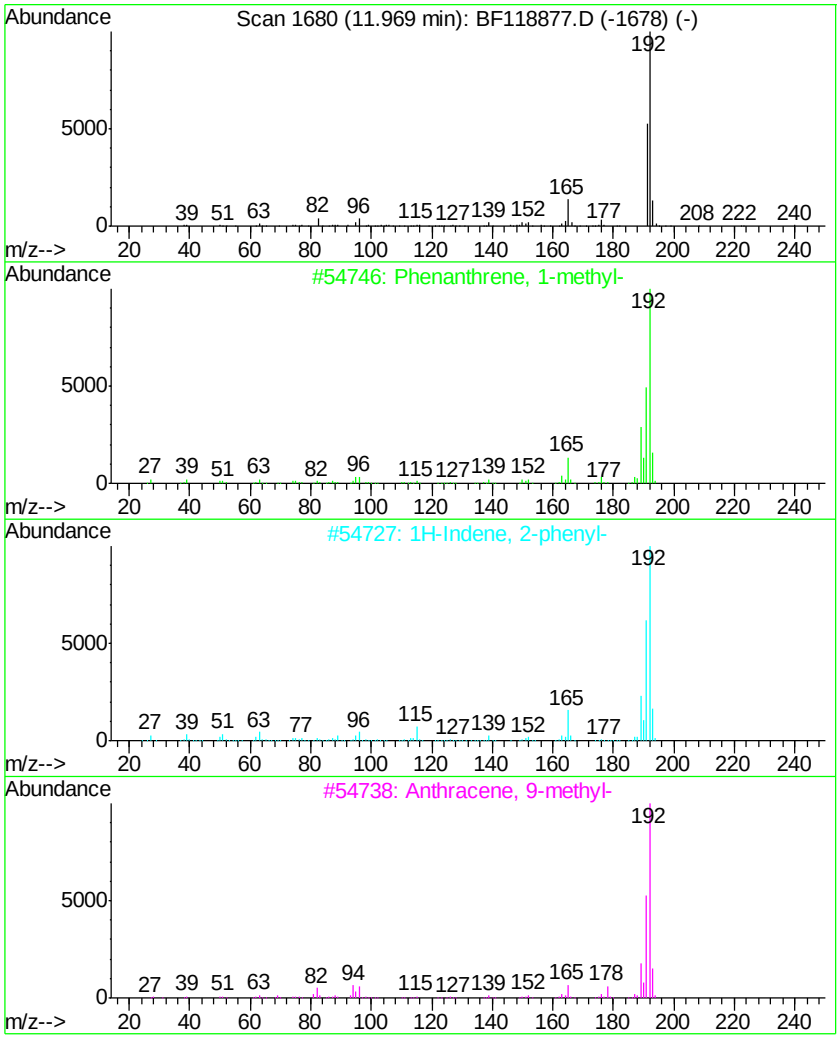
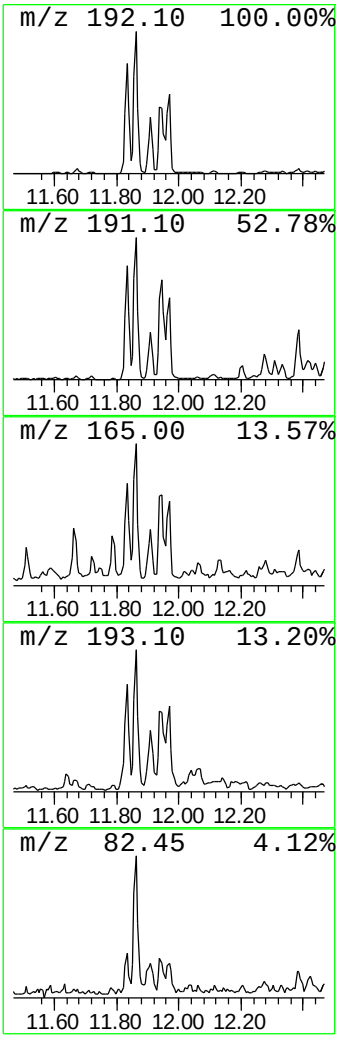
Peak Number 7 Anthracene, 9-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	3.49 ng	402540	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91





Library Search Compound Report

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Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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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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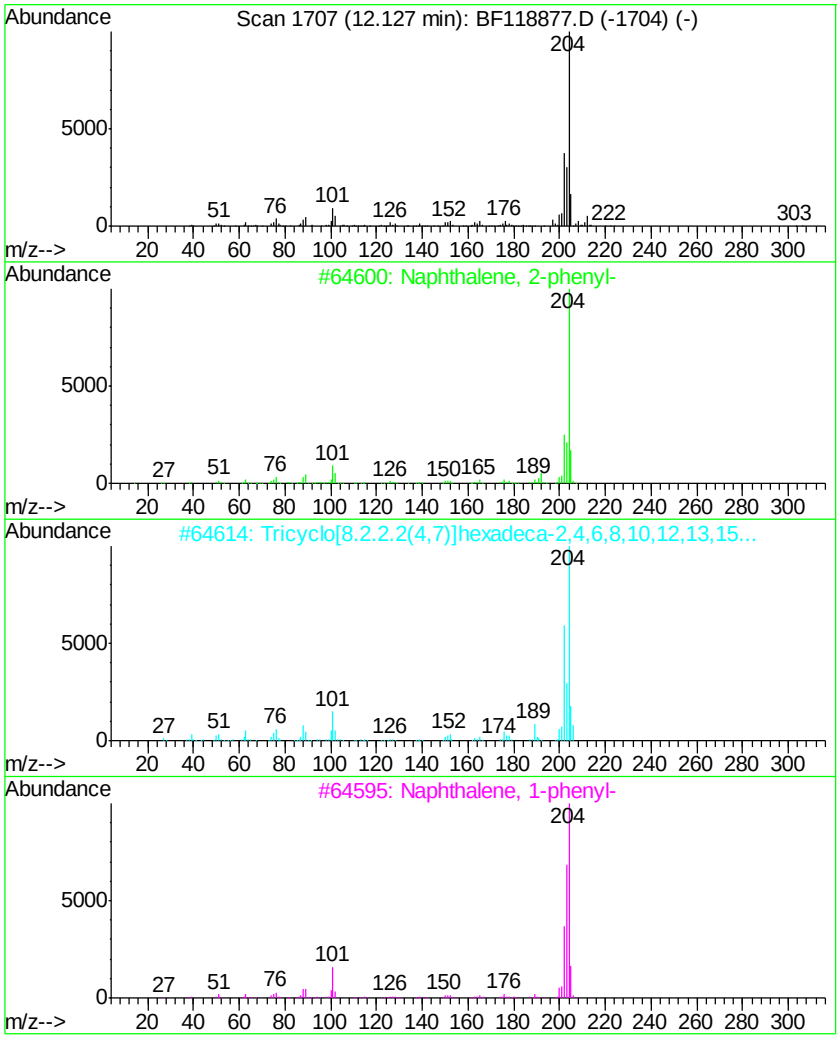
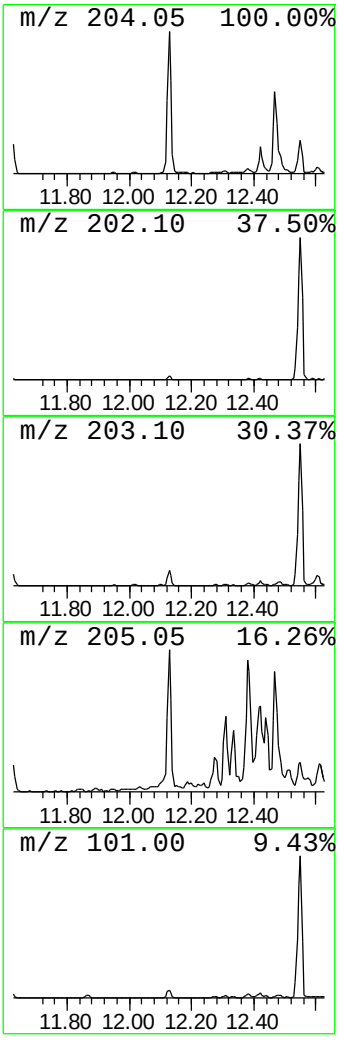
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	3.46 ng	399164	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	52





Library Search Compound Report

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Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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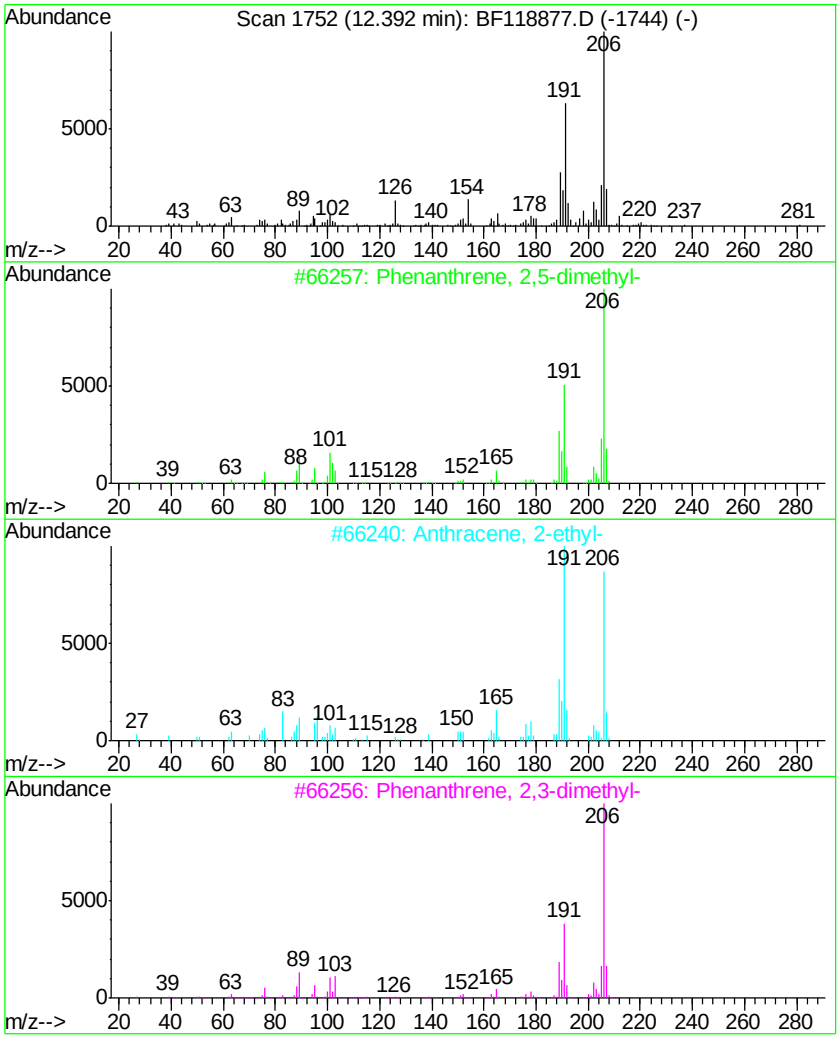
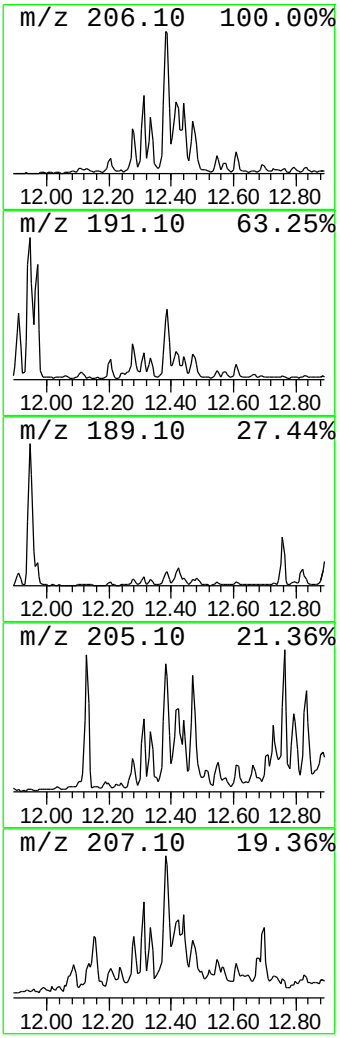
Peak Number 9 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	4.60 ng	530177	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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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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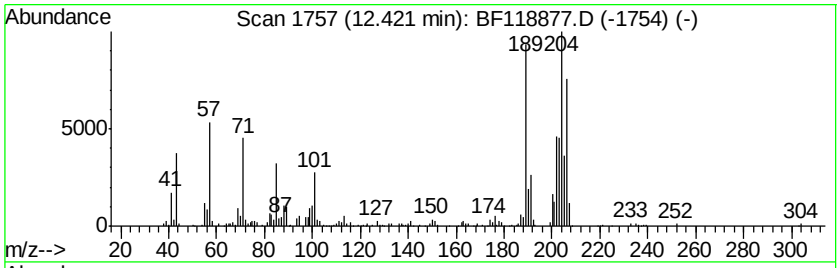
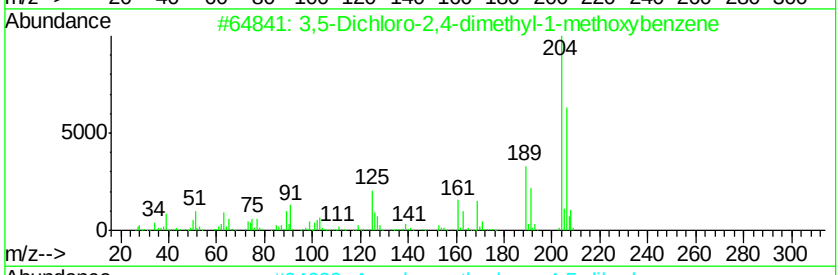
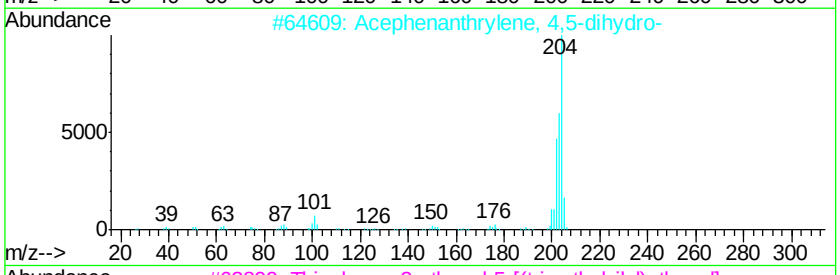
Peak Number 10 unknown12.42 Concentration Rank 18

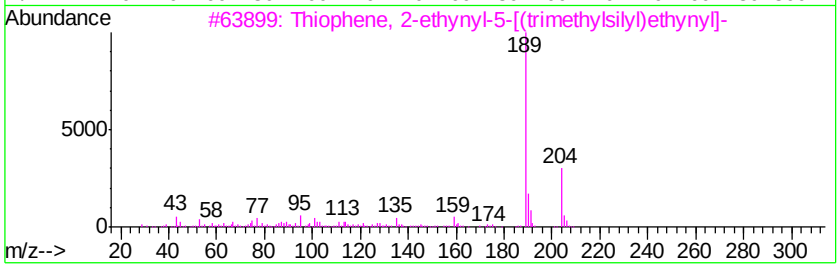
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	2.77 ng	319481	Phenanthrene-d10	11.33

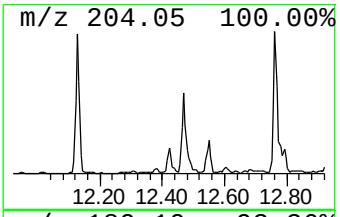
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	43
2	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	38
3	Thiophene, 2-ethynyl-5-[(trimeth...	204	C11H12SSi	182323-29-1	35
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30

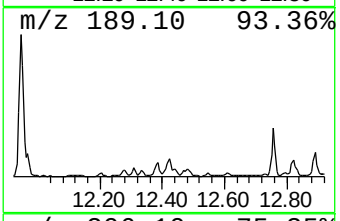


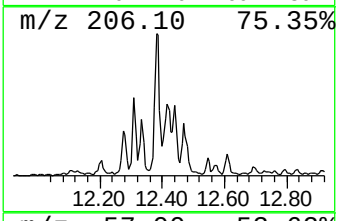


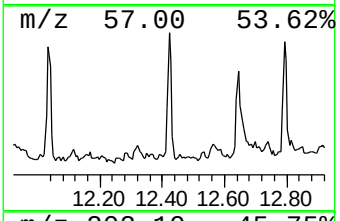


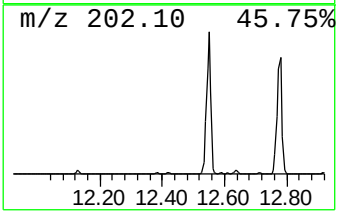












Library Search Compound Report

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Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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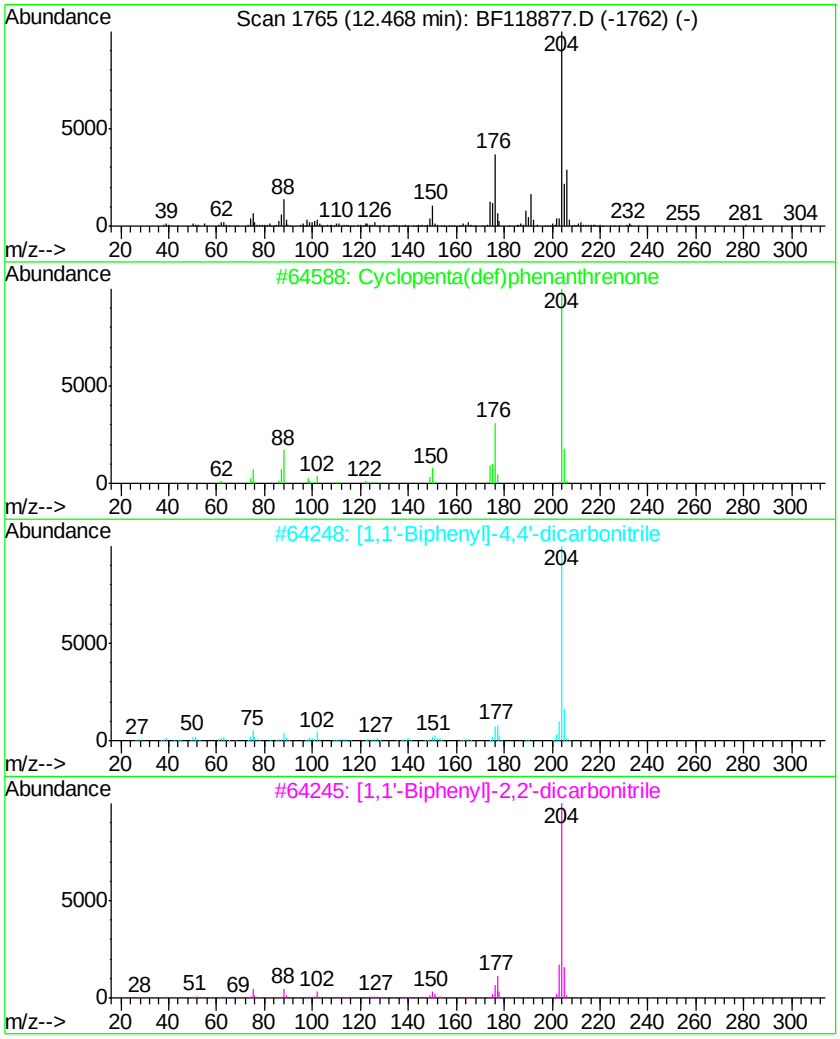
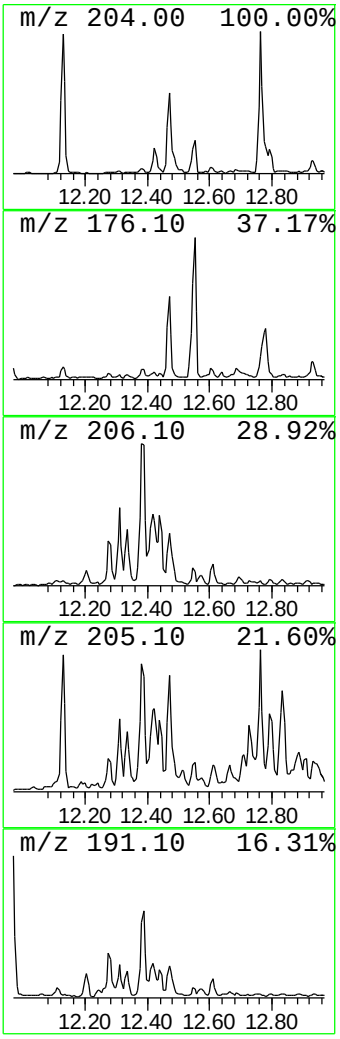
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	3.31 ng	381784	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	53
4	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49





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Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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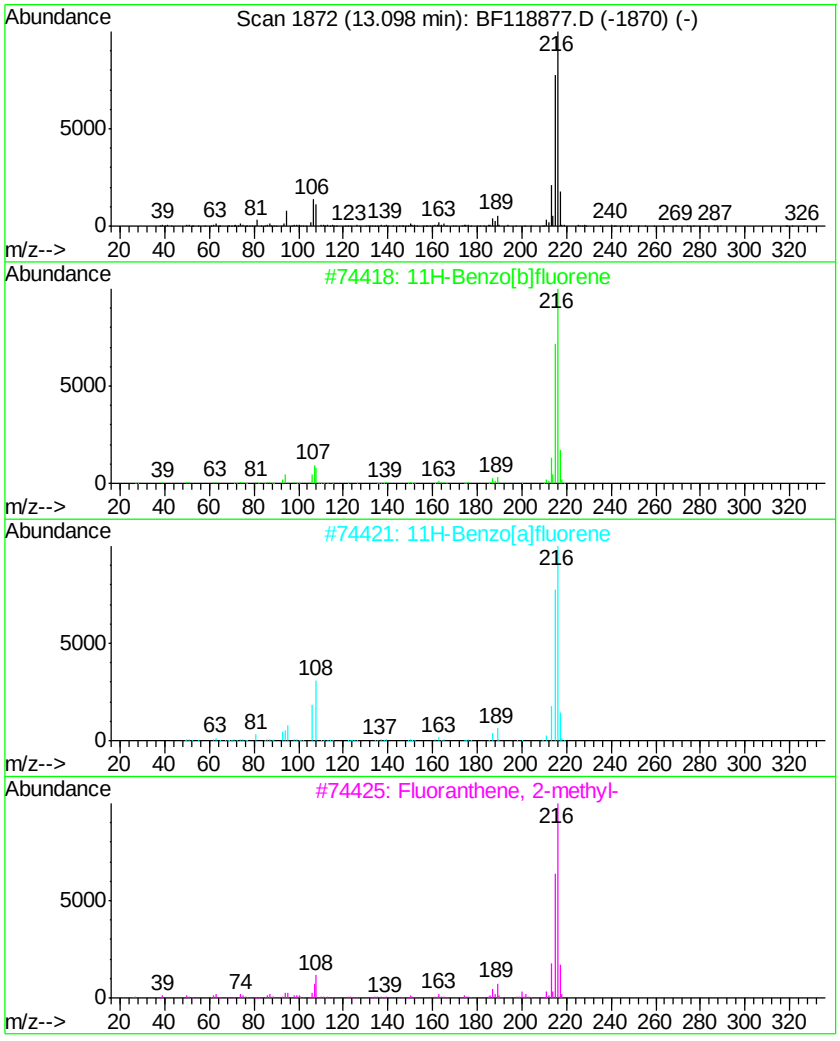
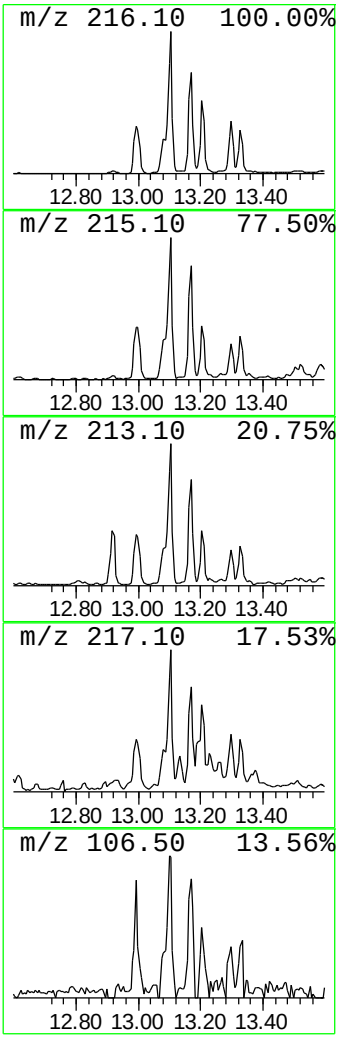
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	3.59 ng	951595	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PE-6A-(DUPLICATE)

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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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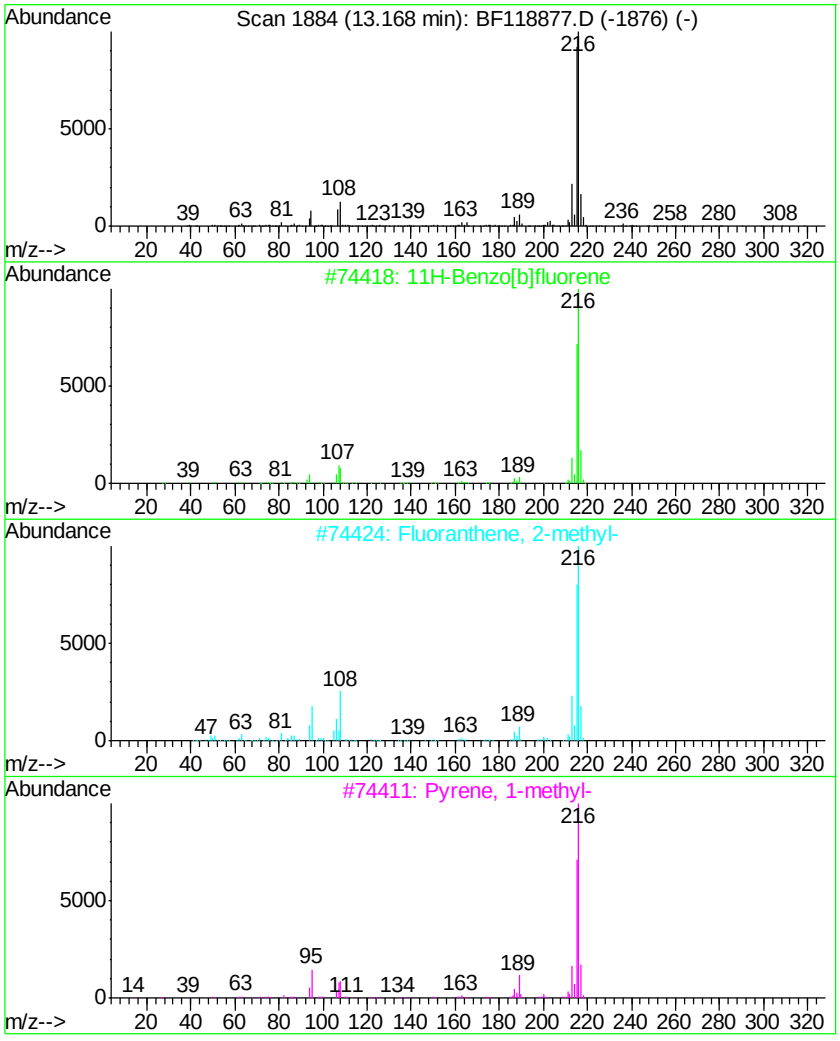
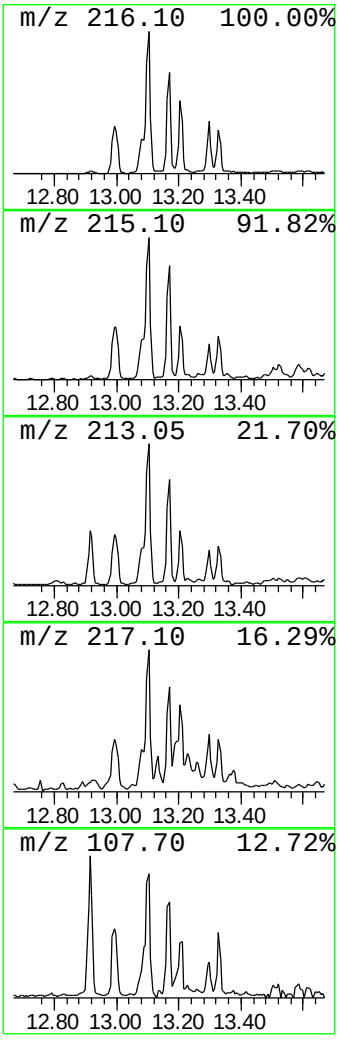
Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	3.40 ng	899577	Chrysene-d12	13.97

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	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	64





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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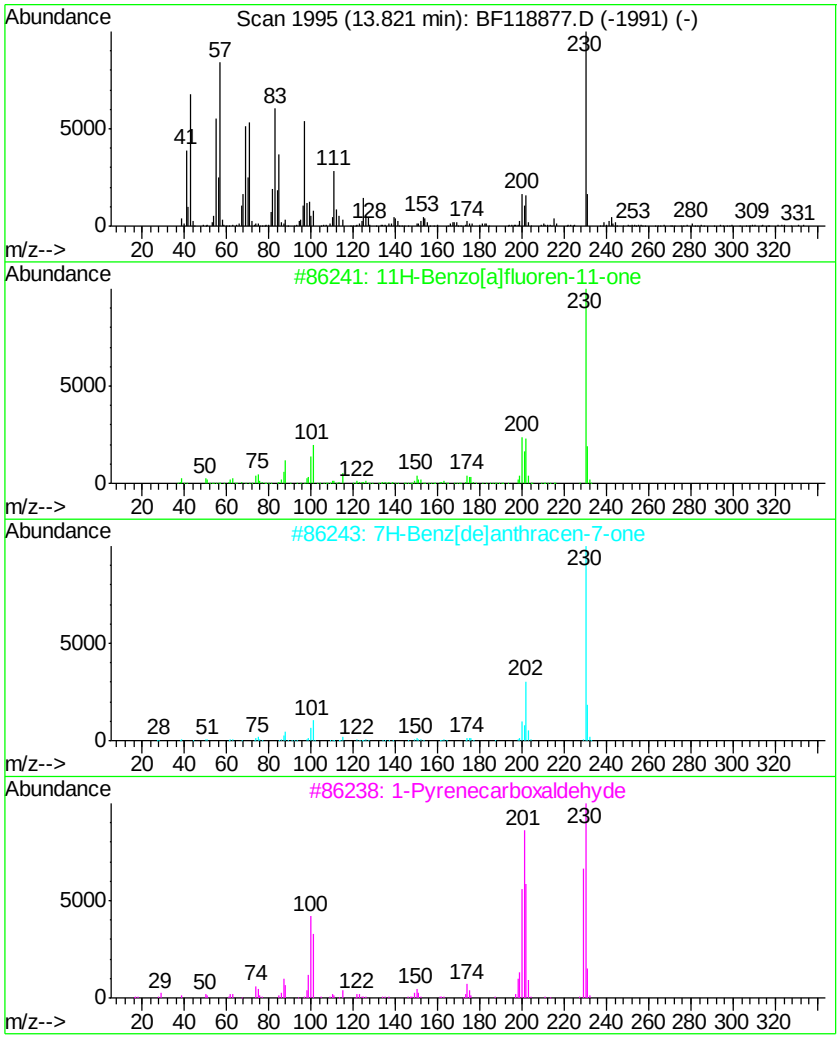
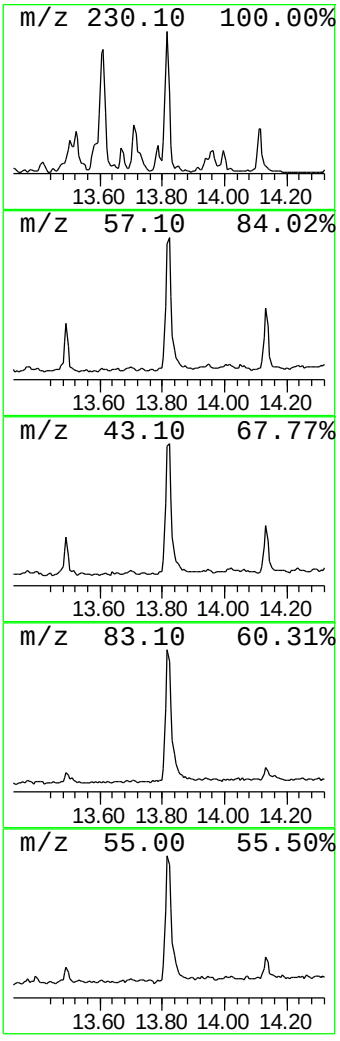
Peak Number 14 11H-Benzo[a]fluoren-11-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.82	4.05 ng	1072230	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	50
4	m-Terphenyl	230	C18H14	000092-06-8	43
5	p-Terphenyl	230	C18H14	000092-94-4	43





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Data File : BF118877.D
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Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

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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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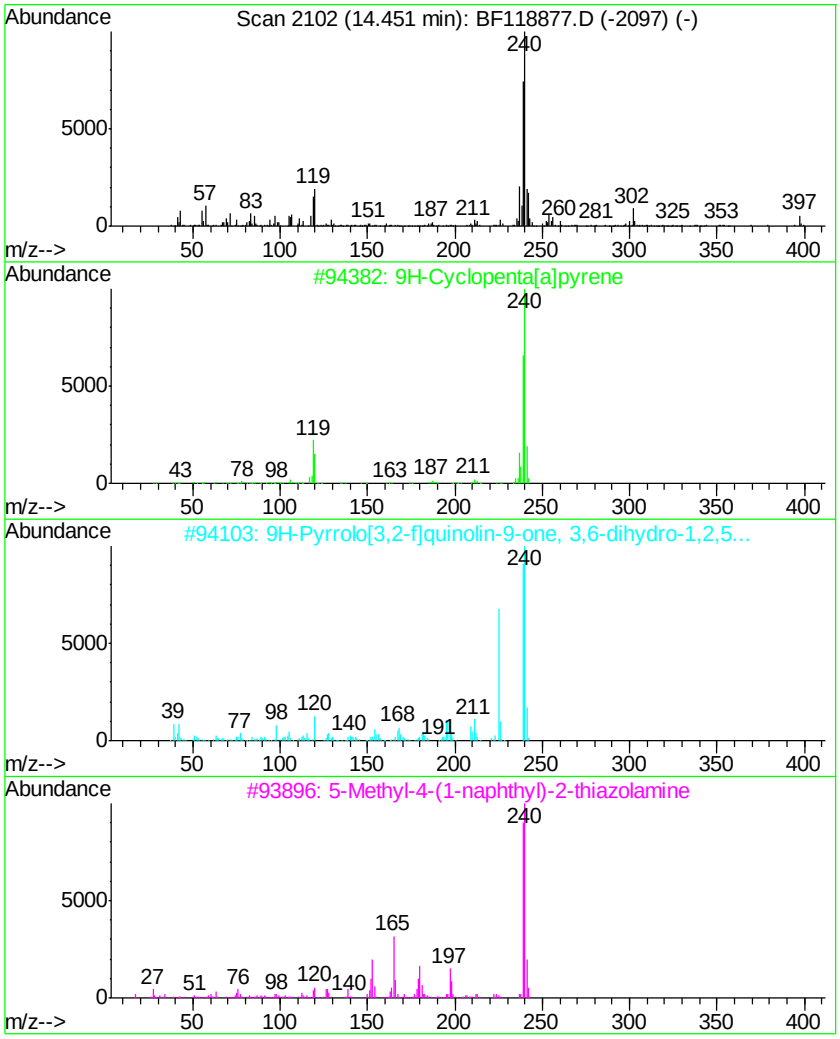
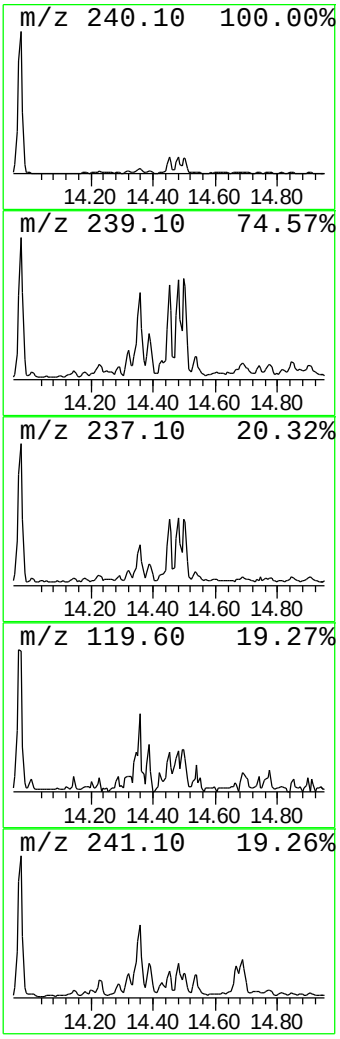
Peak Number 15 9H-Cyclopenta[a]pyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.45	2.71 ng	717557	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Cyclopenta[a]pyrene	240	C19H12	050861-05-7	94
2	9H-Pyrrolo[3,2-f]quinolin-9-one,...	240	C15H16N2O	1000319-84-1	58
3	5-Methyl-4-(1-naphthyl)-2-thiazo...	240	C14H12N2S	107411-05-2	53
4	Benzene, 1-thiobenzoyl-2,4,6-tri...	240	C16H16S	001143-29-9	49
5	Pyrrolo[2,3-f]quinolin-7-one, 2,...	240	C15H16N2O	1000302-73-0	42





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Misc :
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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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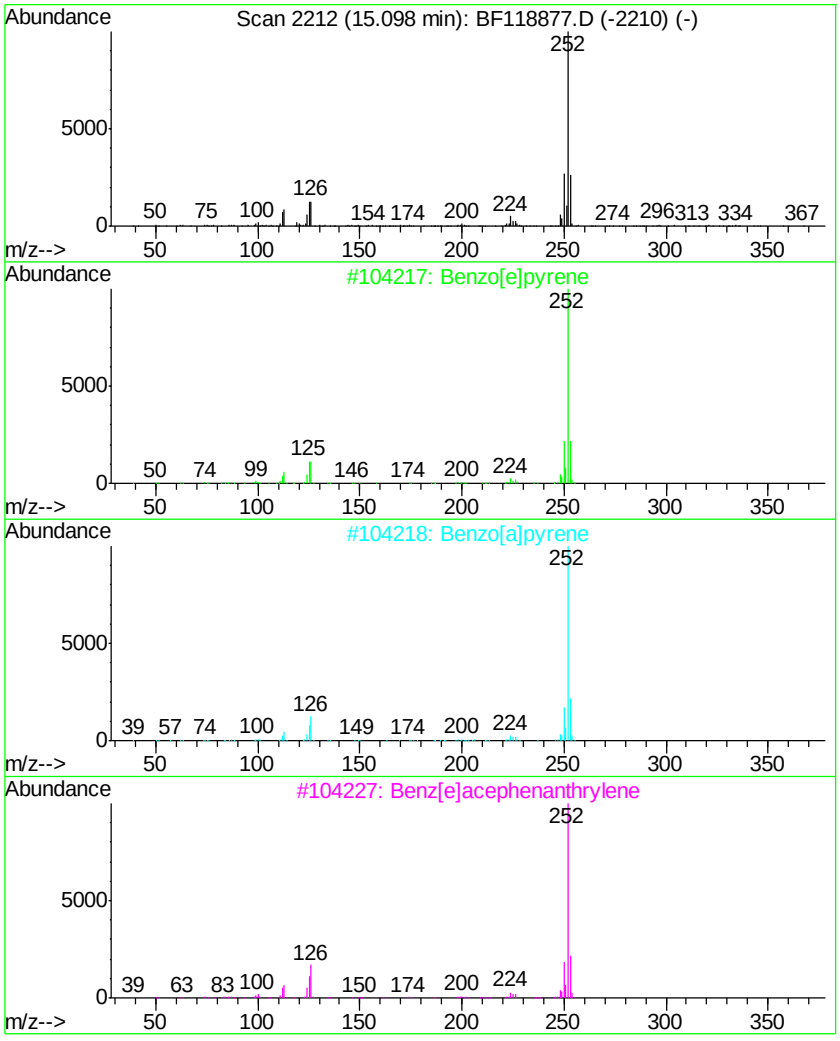
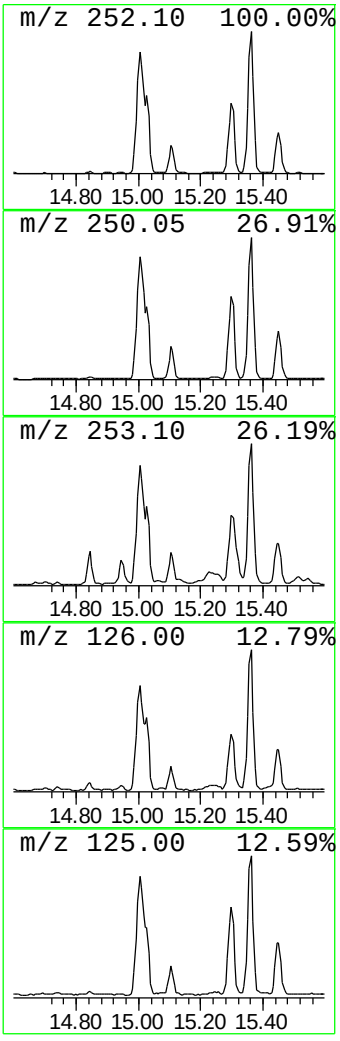
Peak Number 16 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	4.35 ng	534852	Perylene-d12	15.42

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	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Perylene	252	C20H12	000198-55-0	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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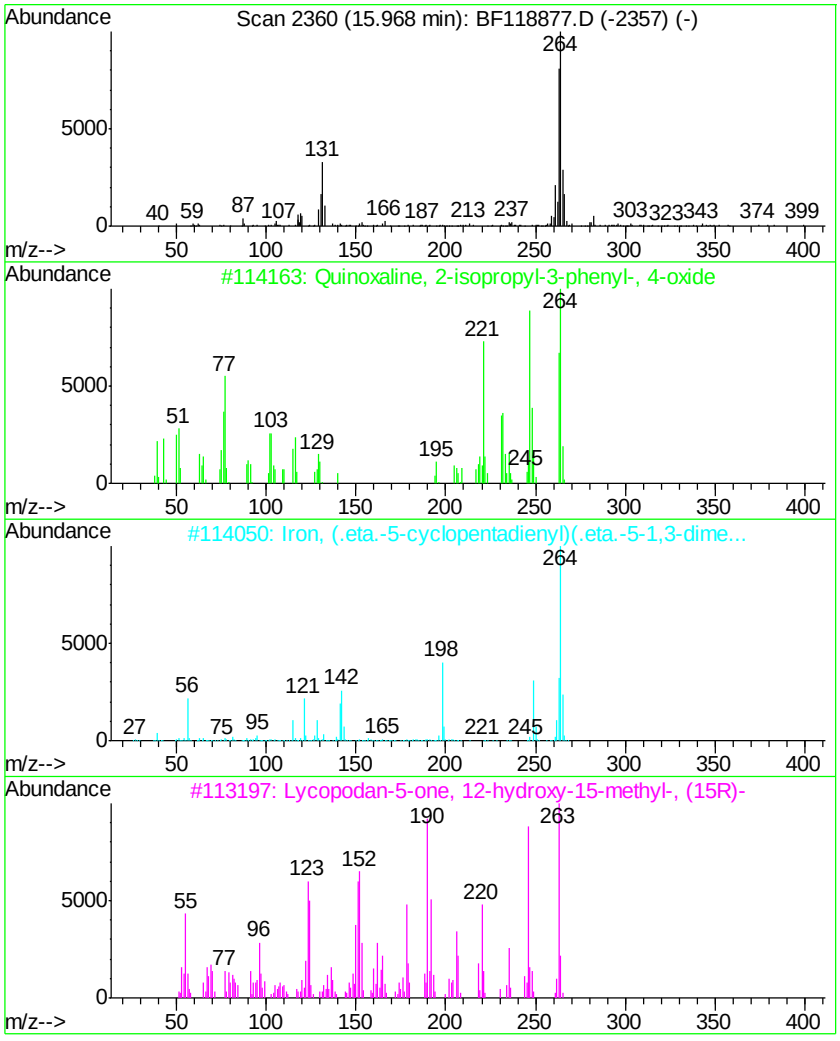
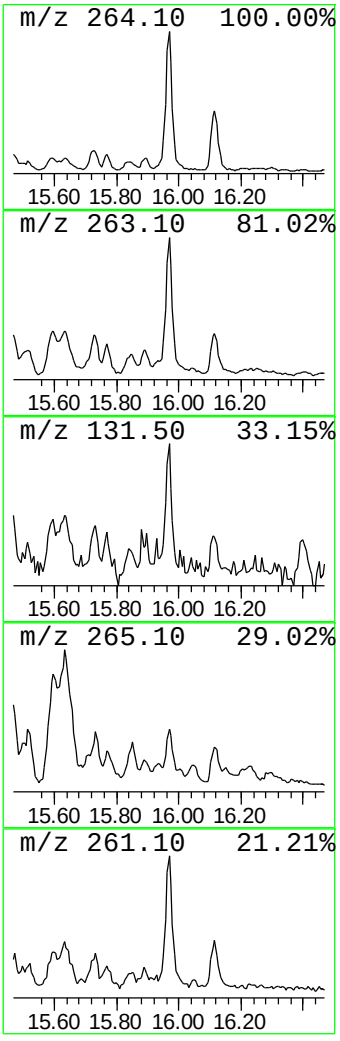
Peak Number 18 unknown15.97 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	3.37 ng	414752	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Quinoxaline, 2-isopropyl-3-phenyl...	264	C17H16N2O	016007-79-7	47
2	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	25
3	Lycopodan-5-one, 12-hydroxy-15-m...	263	C16H25NO2	006900-92-1	25
4	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	25
5	2,5-Bis(4-hydroxyphenyl)pyrimidine	264	C16H12N2O2	159488-83-2	22





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Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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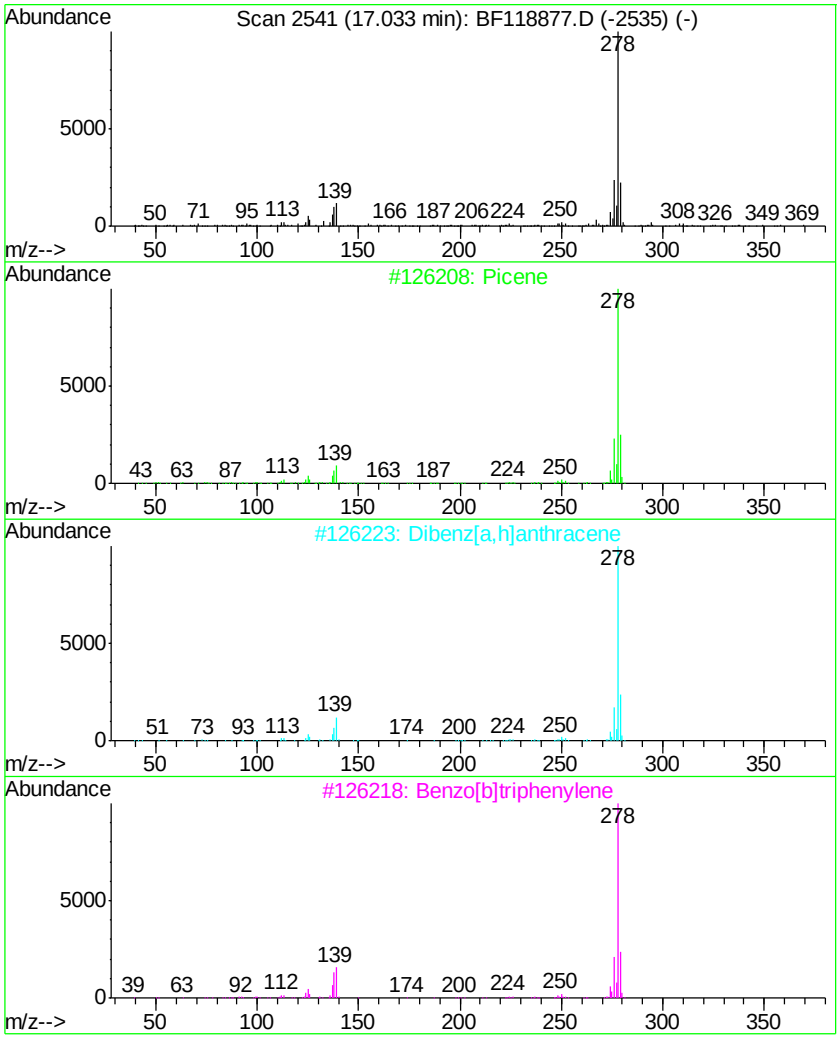
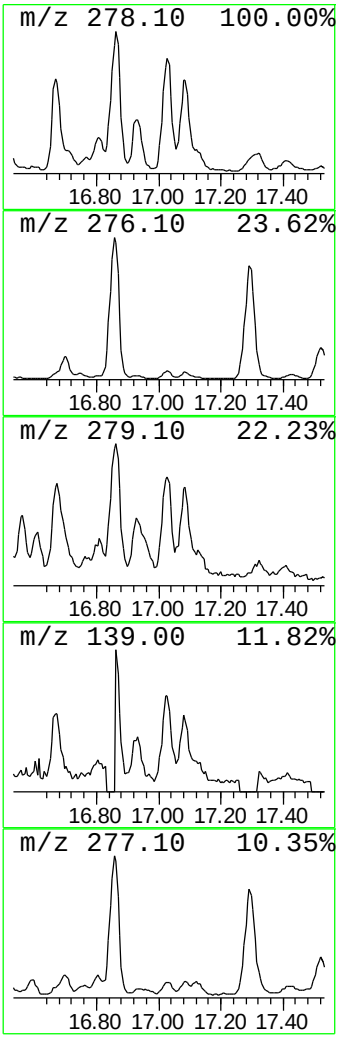
Peak Number 19 Picene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.03	3.00 ng	369136	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	95
4	Benzo[b]chrysene	278	C22H14	000214-17-5	93
5	Benzo[a]naphthacene	278	C22H14	000226-88-0	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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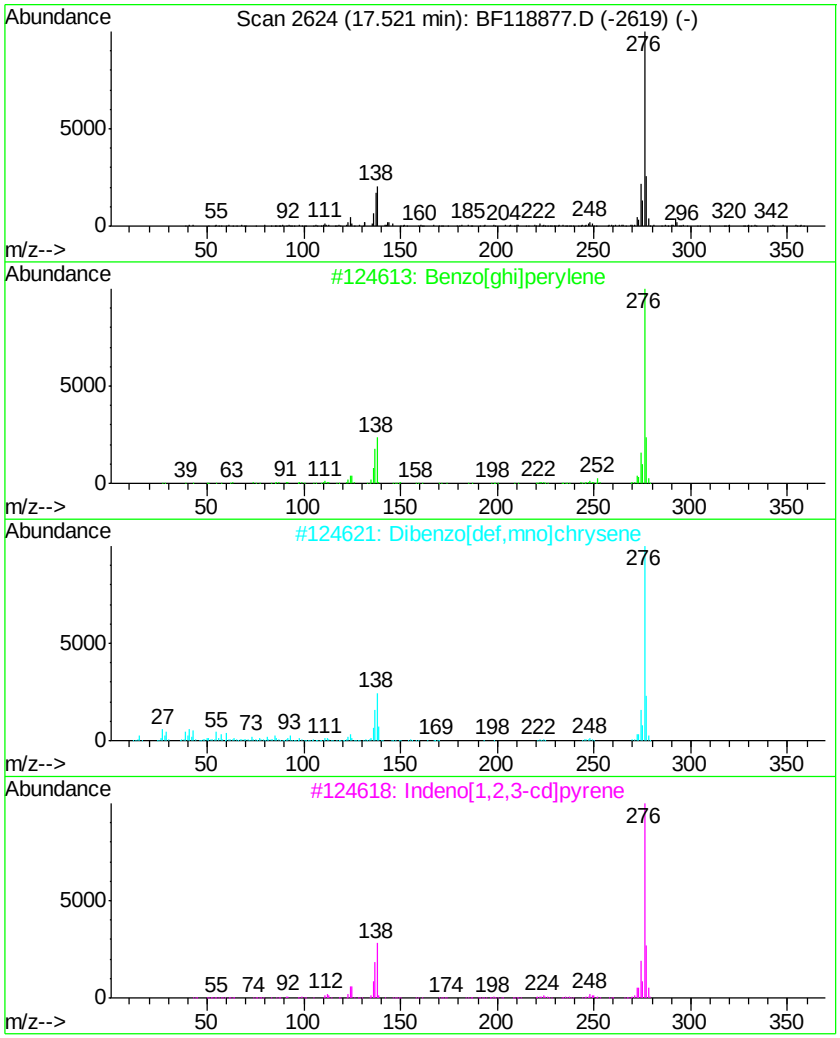
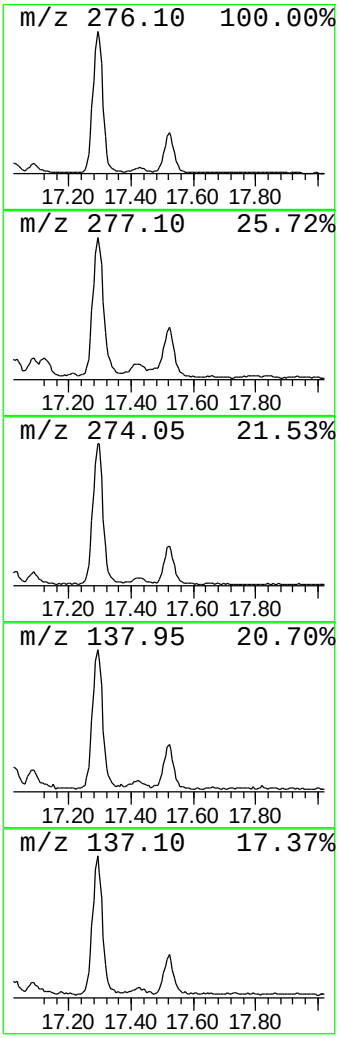
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.52	4.49 ng	552845	Perylene-d12	15.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	93
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	47
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF021020\
Data File : BF118877.D
Acq On : 10 Feb 2020 19:16
Operator : CG/JU
Sample : L1470-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PE-6A-(DUPLICATE)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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
Dodecane, 2-methy...	10.77	2.7	ng	315439	4	11.33	2306970	20.0
Phenanthrene, 2-m...	11.83	5.0	ng	576484	4	11.33	2306970	20.0
Anthracene, 2-met...	11.86	11.2	ng	1287970	4	11.33	2306970	20.0
1H-Indene, 2-phenyl-	11.91	2.8	ng	323759	4	11.33	2306970	20.0
4H-Cyclopenta[def...	11.95	10.8	ng	1242020	4	11.33	2306970	20.0
Anthracene, 9-met...	11.97	3.5	ng	402540	4	11.33	2306970	20.0
Naphthalene, 2-ph...	12.13	3.5	ng	399164	4	11.33	2306970	20.0
Phenanthrene, 2,5...	12.39	4.6	ng	530177	4	11.33	2306970	20.0
unknown12.42	12.42	2.8	ng	319481	4	11.33	2306970	20.0
Cyclopenta(def)ph...	12.47	3.3	ng	381784	4	11.33	2306970	20.0
11H-Benzo[b]fluorene	13.10	3.6	ng	951595	5	13.97	5294920	20.0
Fluoranthene, 2-m...	13.17	3.4	ng	899577	5	13.97	5294920	20.0
11H-Benzo[a]fluor...	13.82	4.0	ng	1072230	5	13.97	5294920	20.0
9H-Cyclopenta[a]p...	14.45	2.7	ng	717557	5	13.97	5294920	20.0
Benzo[e]pyrene	15.10	4.3	ng	534852	6	15.42	2460470	20.0
unknown15.97	15.97	3.4	ng	414752	6	15.42	2460470	20.0
Picene	17.03	3.0	ng	369136	6	15.42	2460470	20.0
Dibenzo[def,mno]c...	17.52	4.5	ng	552845	6	15.42	2460470	20.0