LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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-BF111319.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	2.152	7	11	19	rVB	151806	203052	6.05%	0.521%
2	5.087	507	510	522	rVB	102256	100161	2.99%	0.257%
3	5.499	577	580	596	rVB	576362	545103	16.25%	1.398%
4	6.510	749	752	768	rVB	544781	496738	14.81%	1.274%
5	6.657	774	777	781	rBV	624645	514985	15.35%	1.321%
6	6.893	814	817	821	rBV	873540	679467	20.26%	1.743%
7	7.051	840	844	847	rBV	458440	403835	12.04%	1.036%
8	7.451	909	912	917	rBV	360030	282287	8.42%	0.724%
9	8.181	1032	1036	1038	rBV	1063107	857429	25.56%	2.199%
10	8.204	1038	1040	1043	rVB	315737	230033	6.86%	0.590%
11	8.898	1154	1158	1164	rBV	179797	137974	4.11%	0.354%
12	8.998	1170	1175	1178	rBV	136262	107778	3.21%	0.276%
13	9.257	1216	1219	1229	rVB	720212	545364	16.26%	1.399%
14	9.528	1260	1265	1269	rBV	61185	83817	2.50%	0.215%
15	9.598	1273	1277	1280	rBV	115521	117407	3.50%	0.301%
16	9.651	1284	1286	1291	rVB	91979	73121	2.18%	0.188%
17	9.804	1309	1312	1316	rVB	201946	158369	4.72%	0.406%
18	9.945	1330	1336	1339	rBV	1108295	896293	26.72%	2.299%
19	9.975	1339	1341	1345	rVB	338547	300920	8.97%	0.772%
20	10.151	1367	1371	1374	rBV	269230	242386	7.23%	0.622%
21	10.492	1426	1429	1434	rVB	308951	278515	8.30%	0.714%
22	10.651	1454	1456	1462	rVB	130939	115194	3.43%	0.295%
23	10.734	1467	1470	1474	rVV	460719	418260	12.47%	1.073%
24	11.045	1516	1523	1526	rBV3	86772	126468	3.77%	0.324%
25	11.175	1540	1545	1547	rBV3	86369	112093	3.34%	0.287%
26	11.198	1547	1549	1553	rVV	97063	102261	3.05%	0.262%
27	11.239	1553	1556	1560	rVV	160678	157552	4.70%	0.404%
28	11.298	1560	1566	1570	rVV3	121031	185675	5.54%	0.476%
29	11.333	1570	1572	1578	rVB	191483	173227	5.16%	0.444%
30	11.439	1587	1590	1592	rBV	819790	784434	23.39%	2.012%
31	11.469	1592	1595	1598	rVV	3066322	2590009	77.22%	6.642%
32	11.516	1600	1603	1606	rVV	756562	596317	17.78%	1.529%
33	11.545	1606	1608	1612	rVB2	66501	61933	1.85%	0.159%
34	11.669	1624	1629	1631	rBV2	205184	217328	6.48%	0.557%

LSC Area Percent Report

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Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.733	1637	1640	1644	rVV2	84853	64692	1.93%	0.166%
36	11.775	1644	1647	1652	rVB4	81726	83514	2.49%	0.214%
37	11.945	1670	1676	1678	rBV	446583	451801	13.47%	1.159%
38	11.975	1678	1681	1685	rVB	579589	546251	16.29%	1.401%
39	12.022	1685	1689	1691	rBV	242425	230803	6.88%	0.592%
40	12.057	1691	1695	1697	rBV2	576931	620076	18.49%	1.590%
41	12.080	1697	1699	1702	rVB	302993	245365	7.32%	0.629%
42	12.239	1723	1726	1728	rVV	334647	273421	8.15%	0.701%
43	12.263	1728	1730	1733	rVV	156896	140110	4.18%	0.359%
44	12.316	1736	1739	1743	rVB2	62741	58103	1.73%	0.149%
45	12.392	1749	1752	1754	rVB	106067	91086	2.72%	0.234%
46	12.422	1754	1757	1759	rVV	90334	65870	1.96%	0.169%
47	12.445	1759	1761	1763	rVB	102445	79976	2.38%	0.205%
48	12.492	1763	1769	1773	rBV	237786	334471	9.97%	0.858%
49	12.533	1773	1776	1778	rVV2	138836	181879	5.42%	0.466%
50	12.551	1778	1779	1782	rVV	100748	79730	2.38%	0.204%
51	12.586	1782	1785	1789	rVB	272982	304643	9.08%	0.781%
52	12.669	1794	1799	1802	rBV	3150517	3005585	89.61%	7.708%
53	12.722	1806	1808	1811	rVB2	101690	80125	2.39%	0.205%
54	12.751	1811	1813	1816	rVB	85852	77275	2.30%	0.198%
55	12.792	1816	1820	1821	rBV3	87278	111543	3.33%	0.286%
56	12.810	1821	1823	1826	rVB	96139	90224	2.69%	0.231%
57	12.898	1831	1838	1841	rBV2	2895747	3354005	100.00%	8.602%
58	12.939	1842	1845	1850	rVB2	180675	233351	6.96%	0.598%
59	13.010	1850	1857	1858	rBV	225885	274966	8.20%	0.705%
60	13.027	1858	1860	1862	rVV	497714	400289	11.93%	1.027%
61	13.045	1862	1863	1867	rVB	228843	165773	4.94%	0.425%
62	13.110	1867	1874	1877	rBV2	268315	463689	13.82%	1.189%
63	13.192	1885	1888	1889	rBV3	191783	180893	5.39%	0.464%
64	13.216	1890	1892	1895	rVB	331897	294622	8.78%	0.756%
65	13.251	1895	1898	1901	rBV3	63552	92915	2.77%	0.238%
66	13.280	1901	1903	1906	rBV	108650	96648	2.88%	0.248%
67	13.322	1906	1910	1913	rBV2	382082	410213	12.23%	1.052%
68	13.351	1913	1915	1917	rVB	63811	53733	1.60%	0.138%
69	13.380	1917	1920	1923	rBV2	68359	62990	1.88%	0.162%
70	13.416	1923	1926	1929	rBV	242969	198193	5.91%	0.508%
71	13.445	1929	1931	1934	rVV	234358	213281	6.36%	0.547%

LSC Area Percent Report

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Operator : JU
Sample : K5959-11 5X
Misc :
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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.598	1954	1957	1959	rBV3	85177	107165	3.20%	0.275%
73	13.727	1976	1979	1983	rVB	419127	378491	11.28%	0.971%
74	13.839	1994	1998	2001	rVV2	270629	376764	11.23%	0.966%
75	13.869	2001	2003	2005	rVV	300116	242899	7.24%	0.623%
76	13.892	2005	2007	2011	rVV2	202061	305295	9.10%	0.783%
77	13.933	2011	2014	2019	rVB2	321411	341122	10.17%	0.875%
78	14.086	2033	2040	2044	rBV3	1699633	2459115	73.32%	6.307%
79	14.122	2044	2046	2053	rVB	1497919	1241585	37.02%	3.184%
80	14.198	2057	2059	2061	rBV	108889	86392	2.58%	0.222%
81	14.245	2064	2067	2070	rBV5	89048	151957	4.53%	0.390%
82	14.316	2075	2079	2082	rBV2	142745	182058	5.43%	0.467%
83	14.351	2082	2085	2087	rVV	66759	55381	1.65%	0.142%
84	14.445	2098	2101	2103	rBV	83676	79114	2.36%	0.203%
85	14.480	2104	2107	2110	rVV	337328	307304	9.16%	0.788%
86	14.516	2110	2113	2116	rVV	149364	144545	4.31%	0.371%
87	14.557	2117	2120	2125	rVB3	109206	178738	5.33%	0.458%
88	14.604	2125	2128	2130	rBV	132259	123530	3.68%	0.317%
89	14.627	2130	2132	2136	rVB2	88491	74490	2.22%	0.191%
90	14.869	2170	2173	2177	rBV3	90689	121796	3.63%	0.312%
91	15.157	2217	2222	2225	rBV	906475	1429377	42.62%	3.666%
92	15.221	2229	2233	2237	rVV3	95418	147594	4.40%	0.379%
93	15.263	2237	2240	2244	rVB	168278	170941	5.10%	0.438%
94	15.357	2253	2256	2258	rBV3	54093	80221	2.39%	0.206%
95	15.469	2271	2275	2282	rVB	518313	733719	21.88%	1.882%
96	15.539	2282	2287	2292	rVB	751565	943666	28.14%	2.420%
97	15.598	2293	2297	2300	rBV	402675	569164	16.97%	1.460%
98	15.633	2300	2303	2310	rVB2	225961	346492	10.33%	0.889%
99	17.127	2551	2557	2565	rBV2	295873	585757	17.46%	1.502%
100	17.592	2630	2636	2645	rVB	206397	419015	12.49%	1.075%

Sum of corrected areas: 38991576

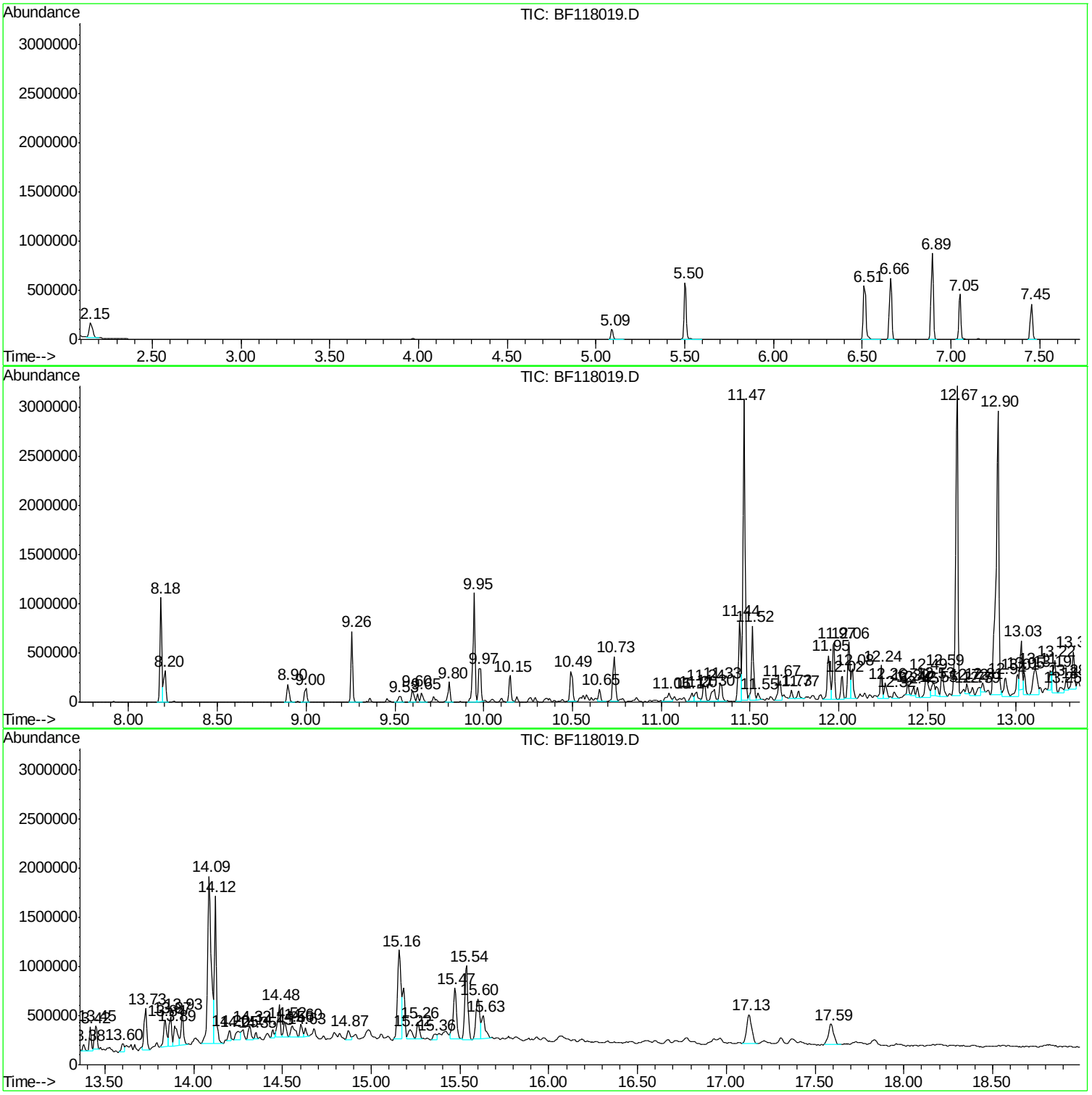
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

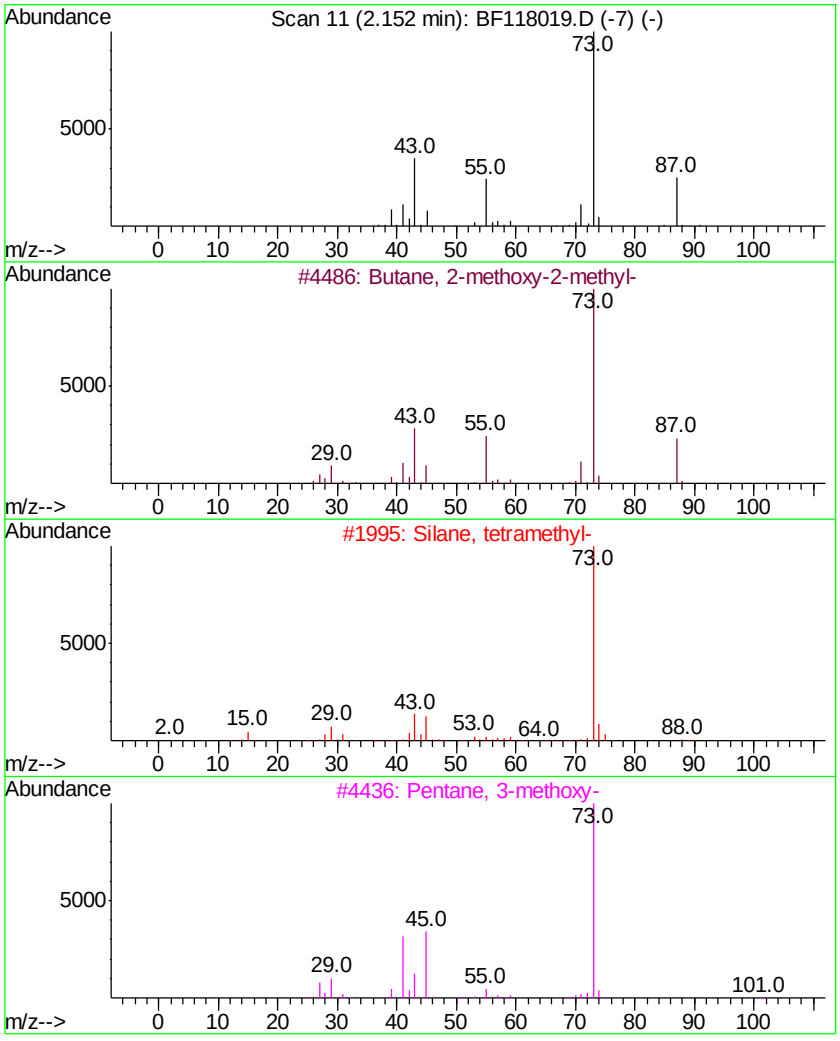
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

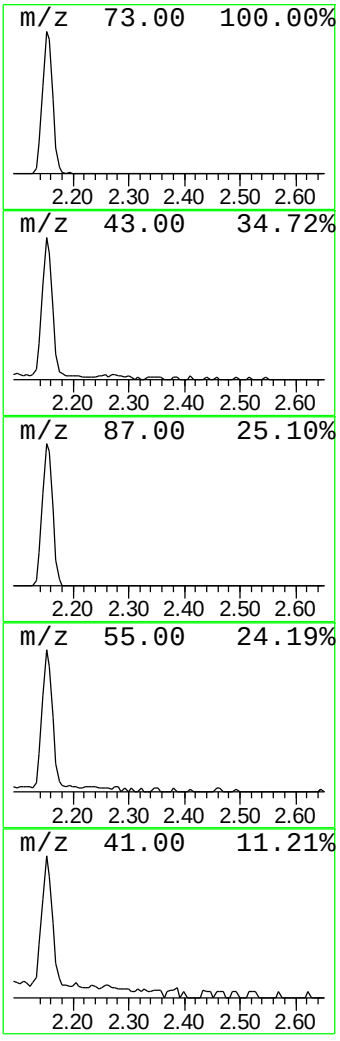
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.15	5.98 ng	203052	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	64
2	Silane, tetramethyl-	88	C4H12Si	000075-76-3	25
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	17
5	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9





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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

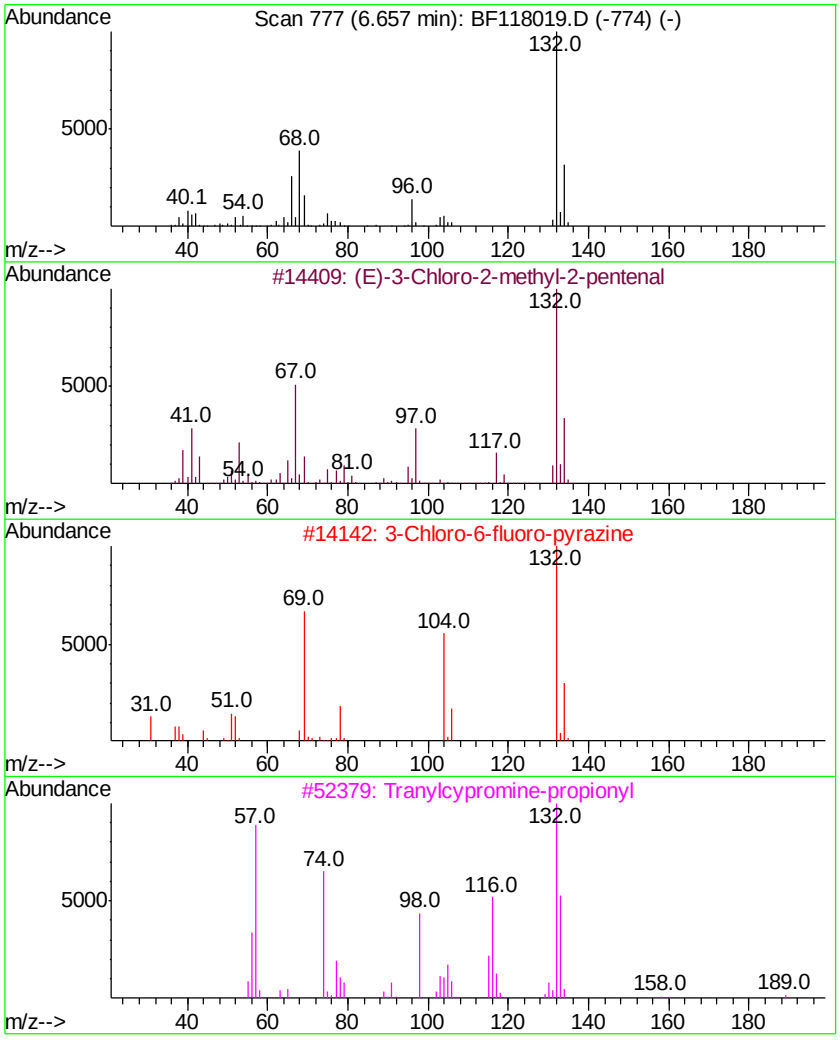
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

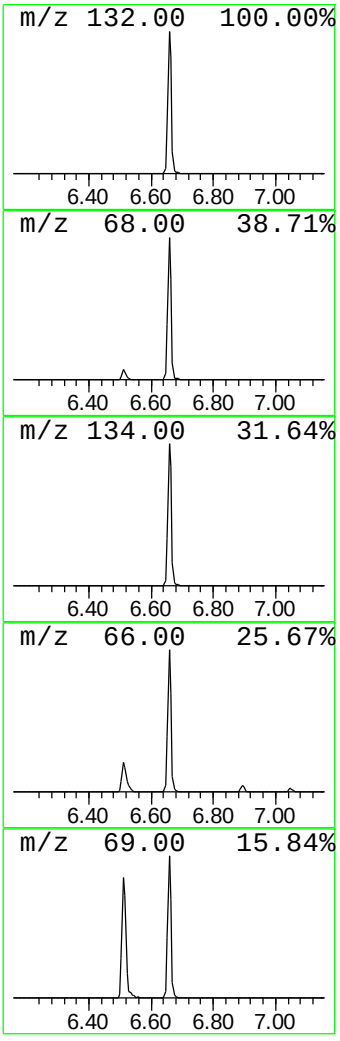
****

Peak Number 2 unknown6.66 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	15.16 ng	514985	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	5-Aminoindole	132	C8H8N2	005192-03-0	10
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





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ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

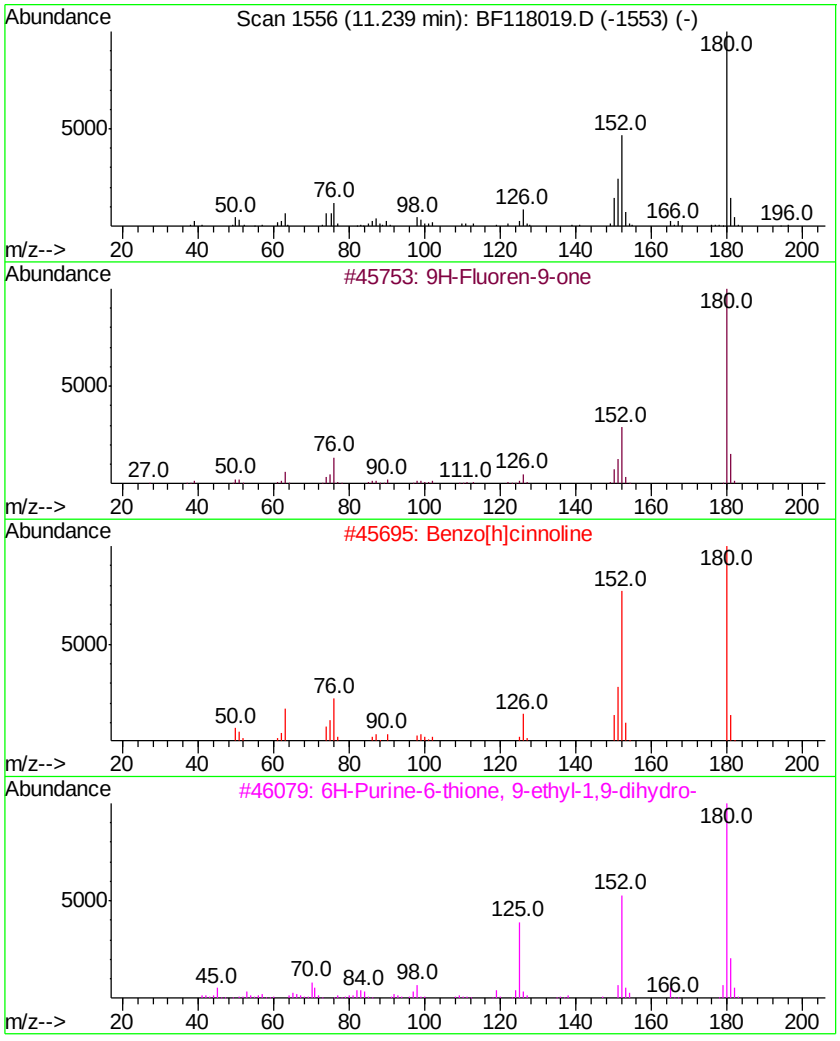
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

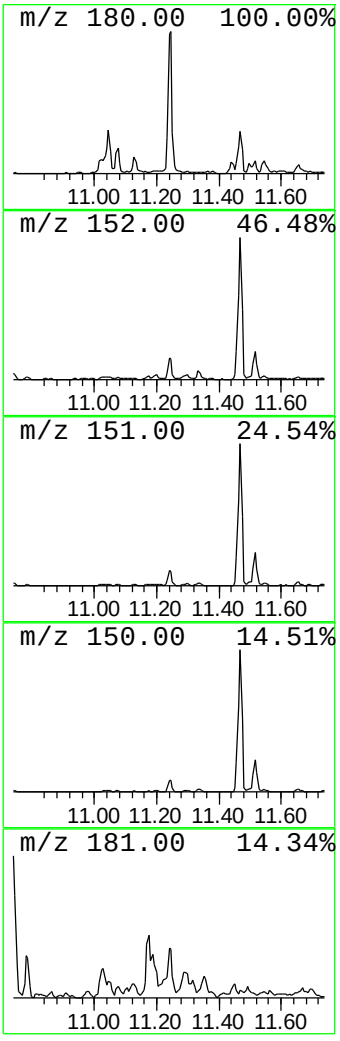
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.24	4.02 ng	157552	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	59
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
5	1,7-Phenanthroline	180	C12H8N2	000230-46-6	47





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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

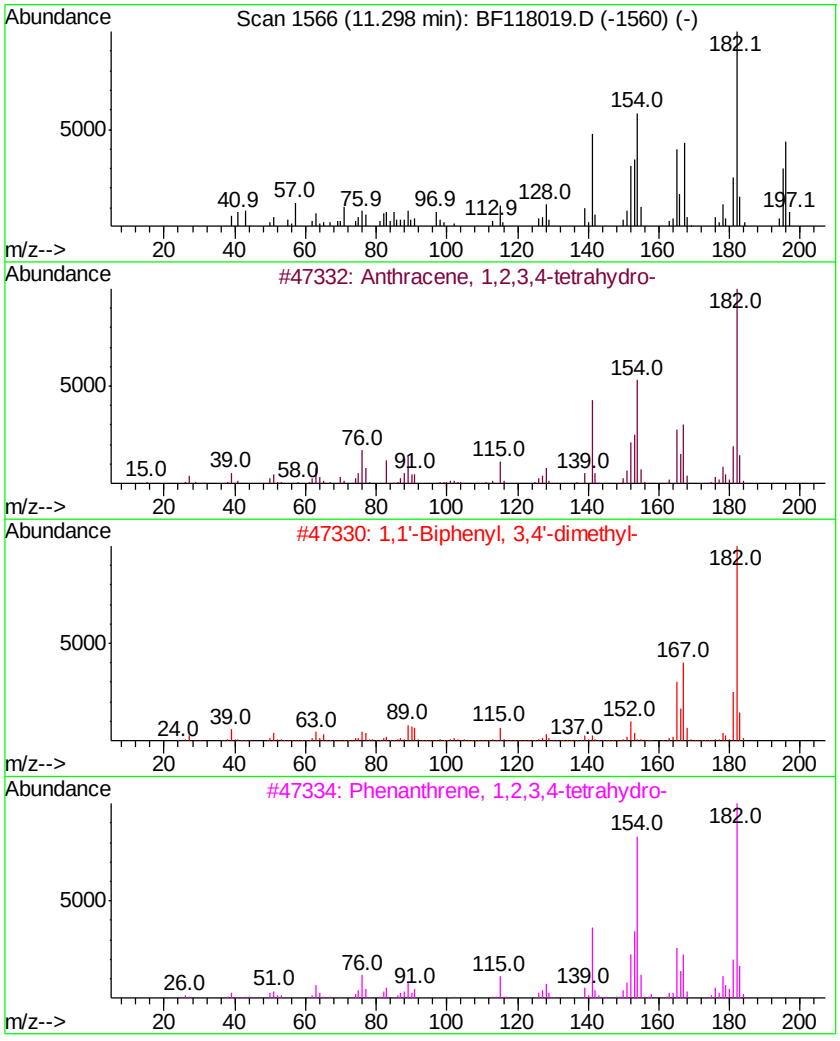
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

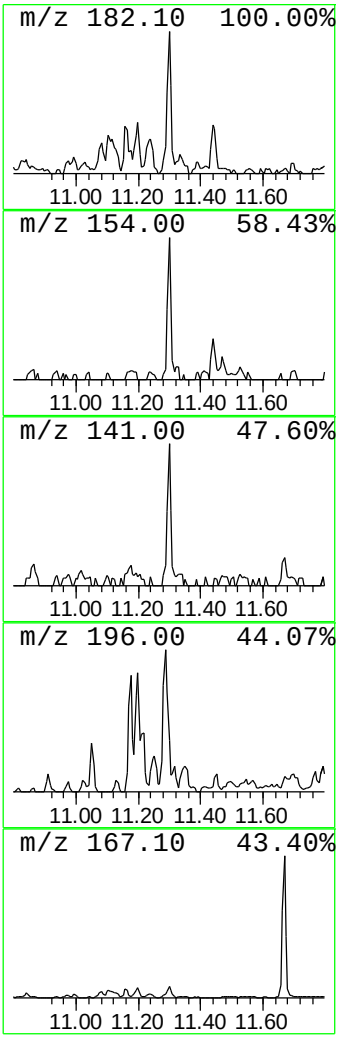
****

Peak Number 5 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.30	4.73 ng	185675	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	97
2	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	55
3	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	55
4	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	50
5	4,4'-Dimethylbiphenyl	182	C14H14	000613-33-2	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

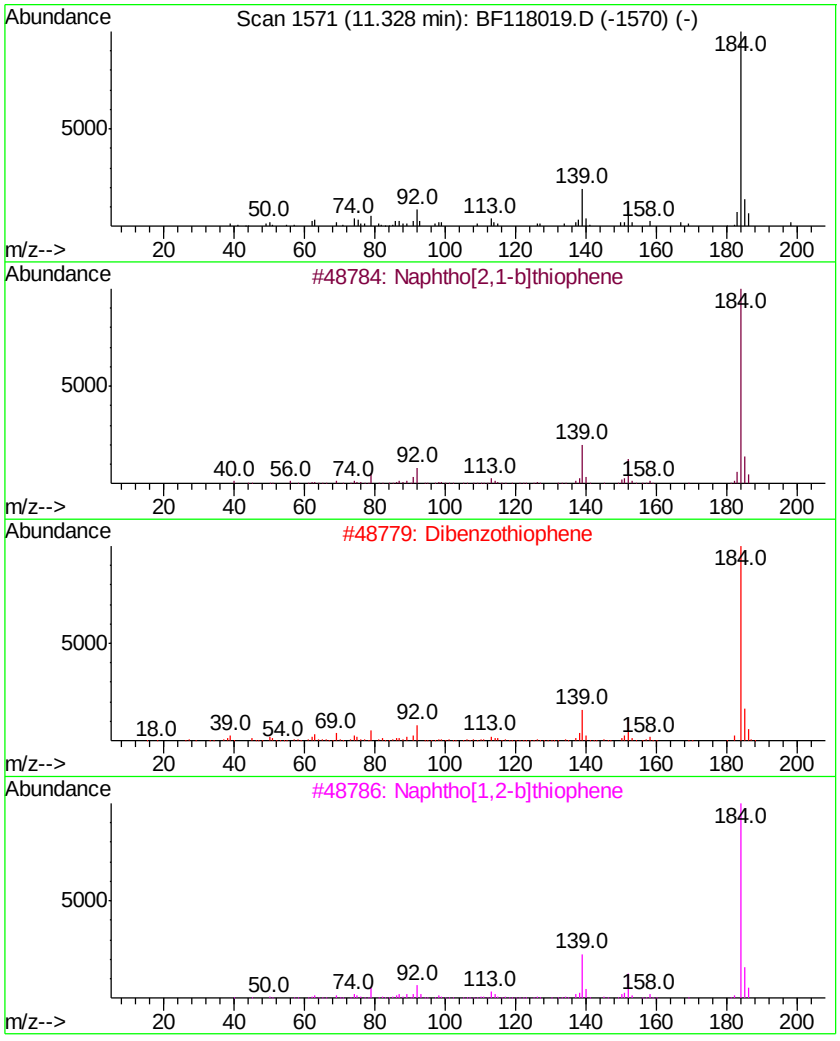
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

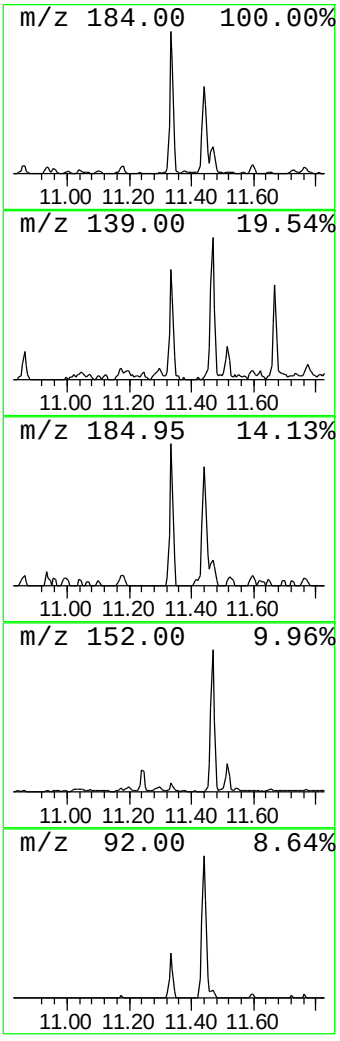
****

Peak Number 6 Naphtho[2,1-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.33	4.42 ng	173227	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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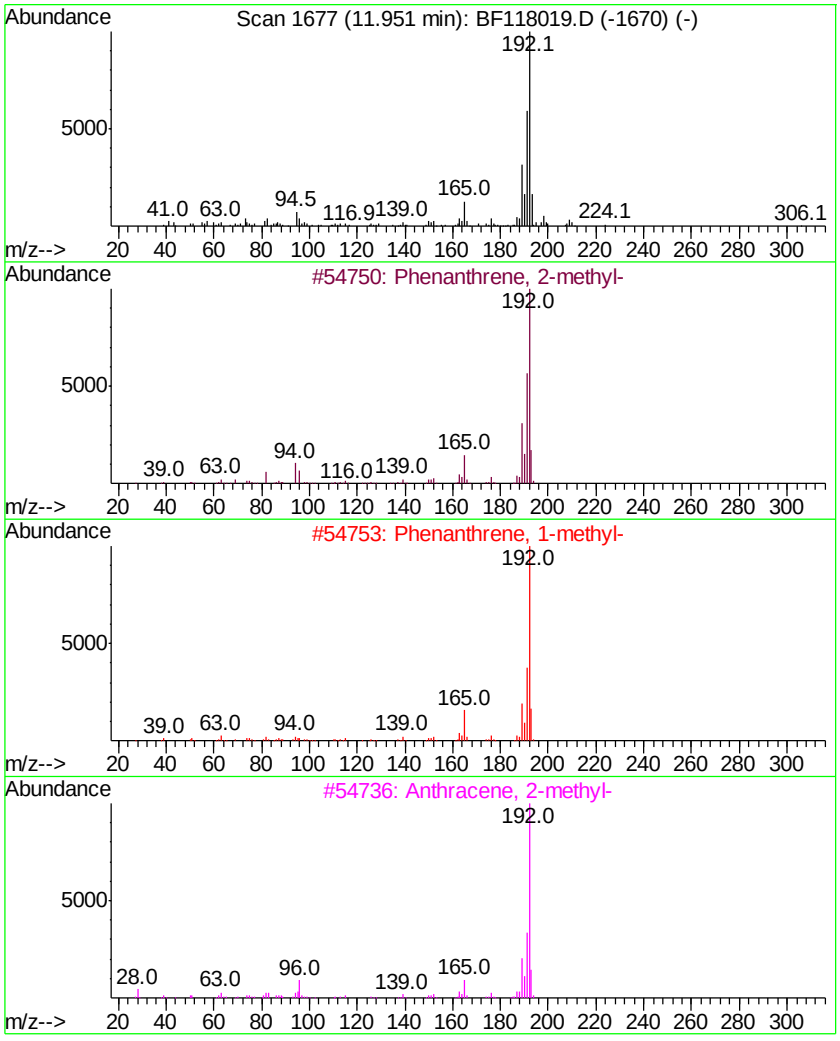
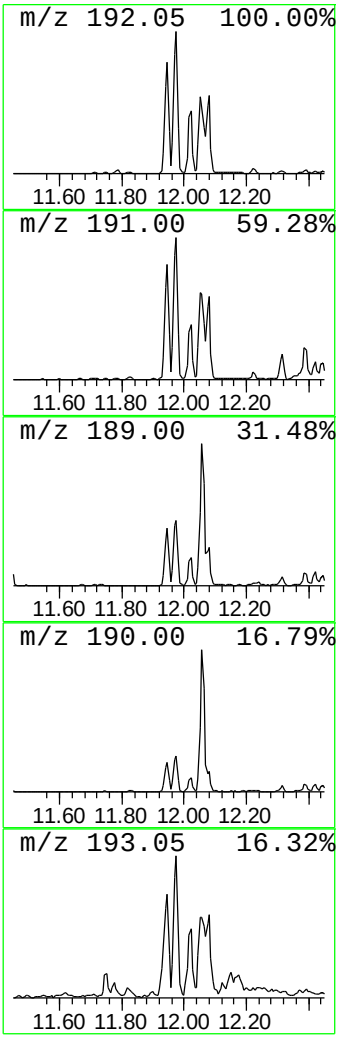
Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	11.52 ng	451801	Phenanthrene-d10	11.44

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	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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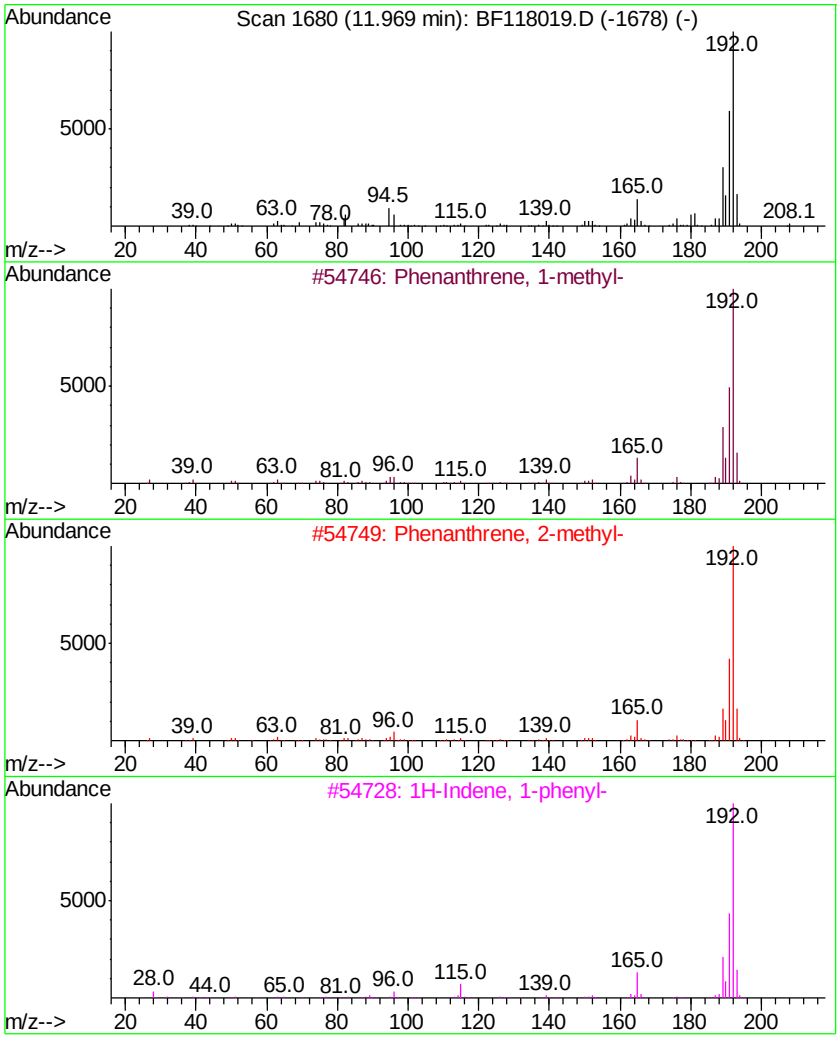
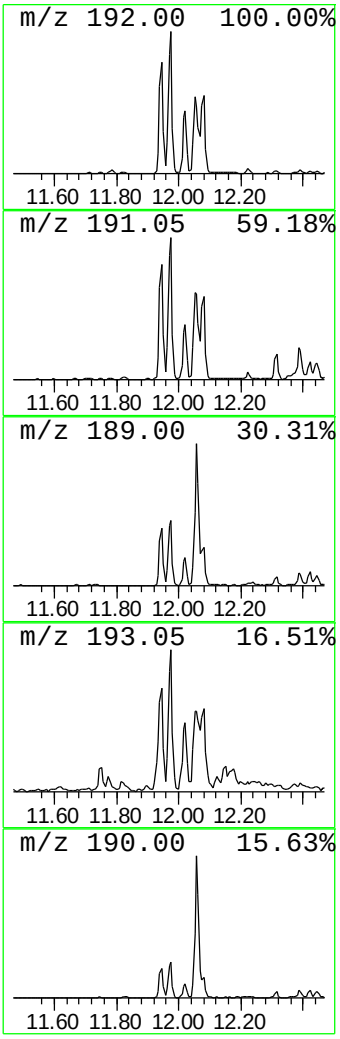
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	13.93 ng	546251	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





Library Search Compound Report

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Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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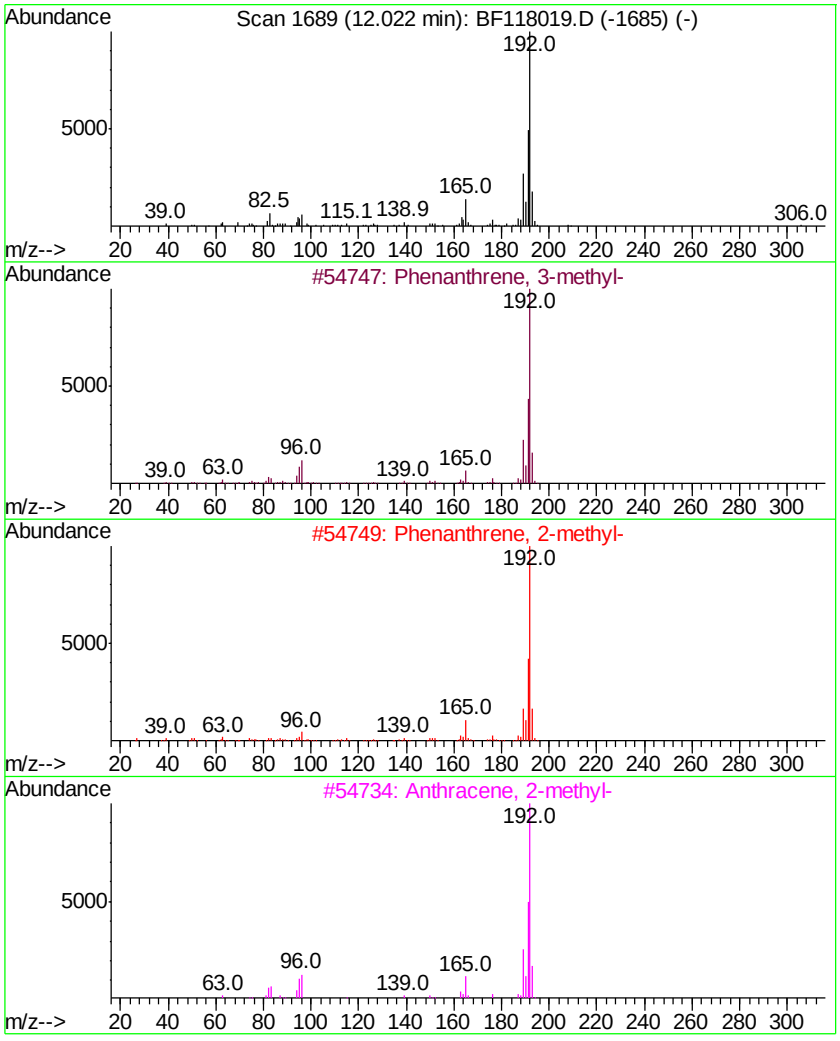
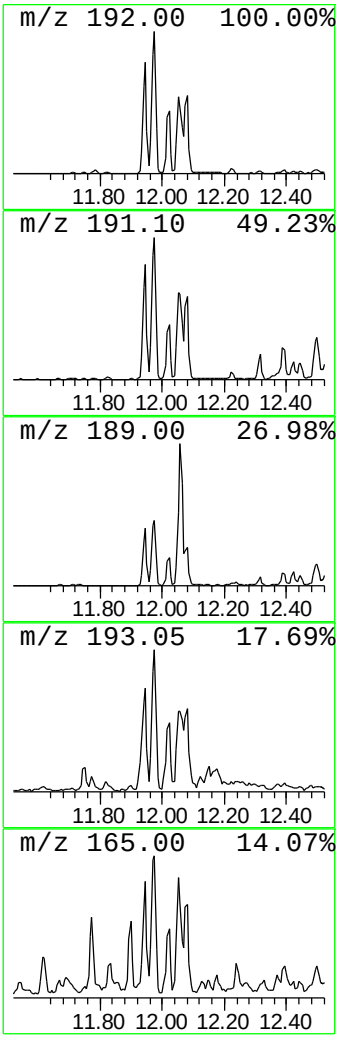
Peak Number 9 Phenanthrene, 3-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	5.88 ng	230803	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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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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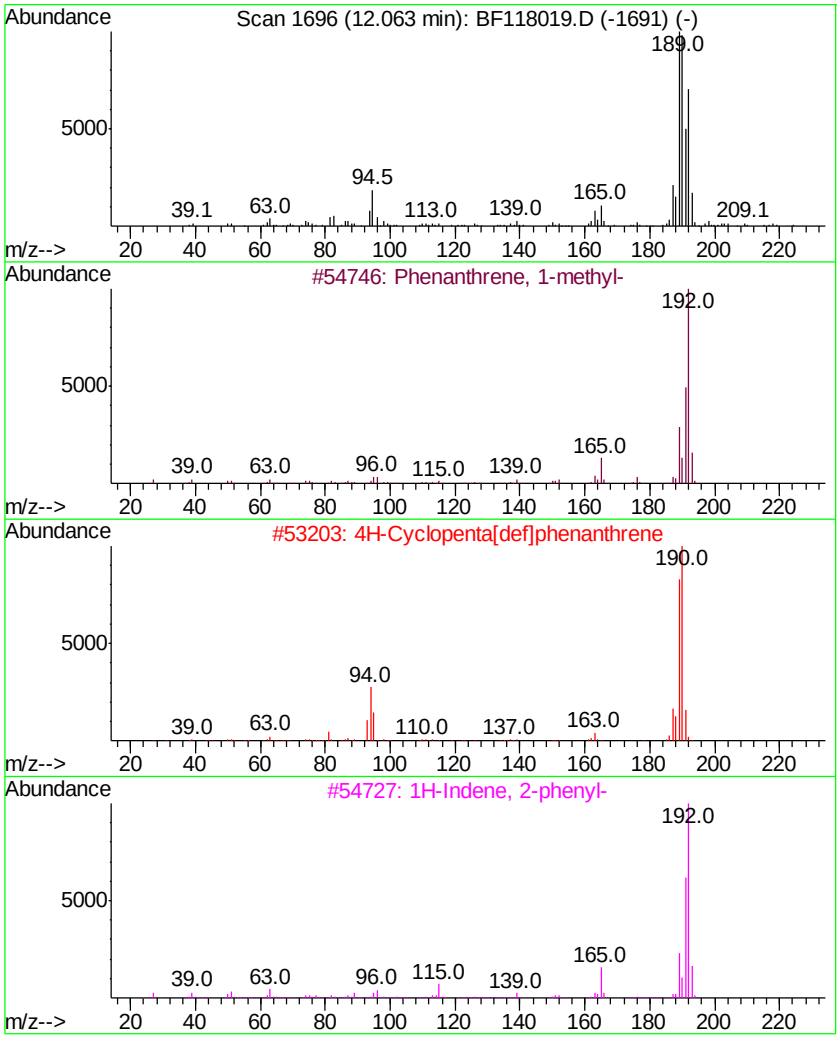
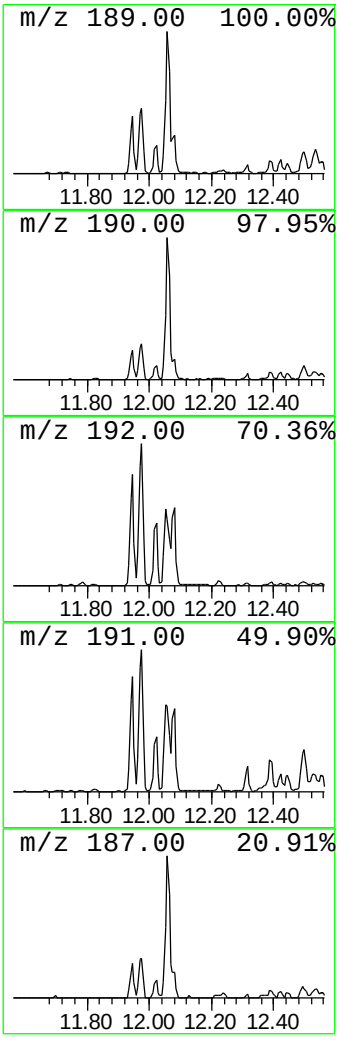
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	15.81 ng	620076	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	80
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42





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Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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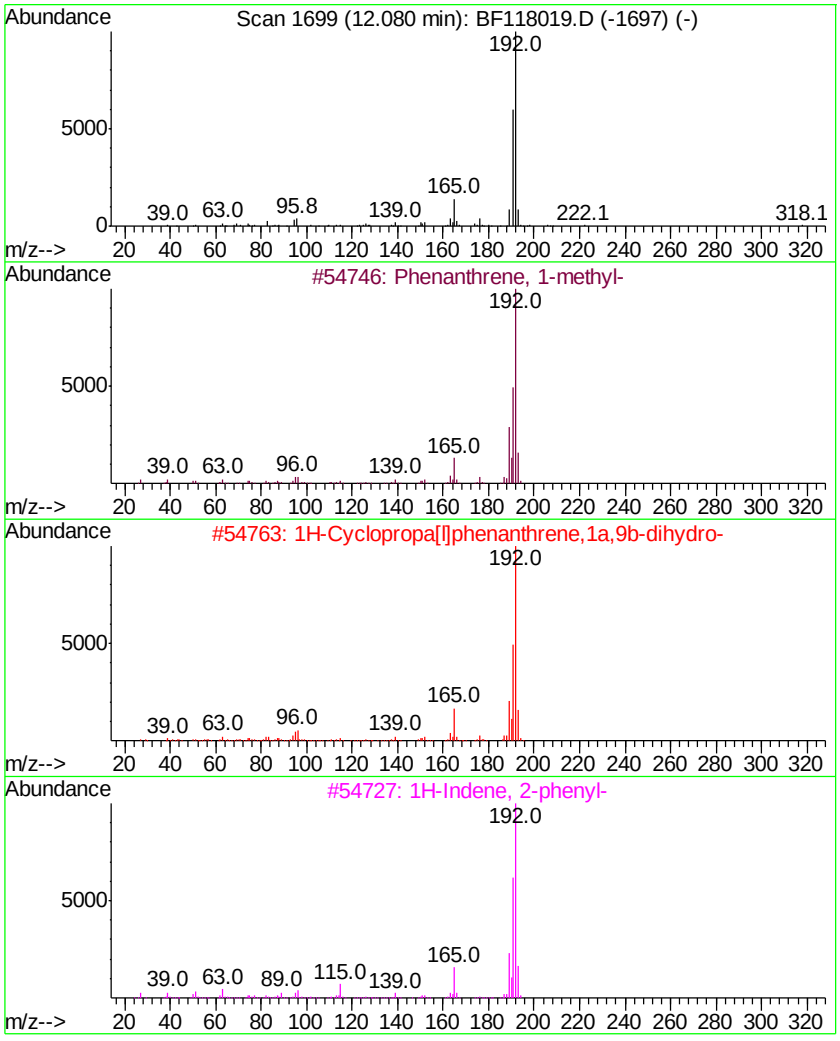
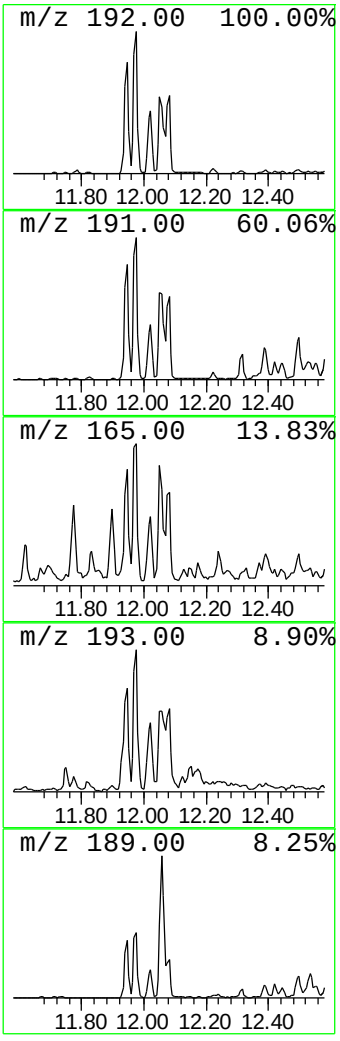
Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	6.26 ng	245365	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	83
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	80
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	80





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Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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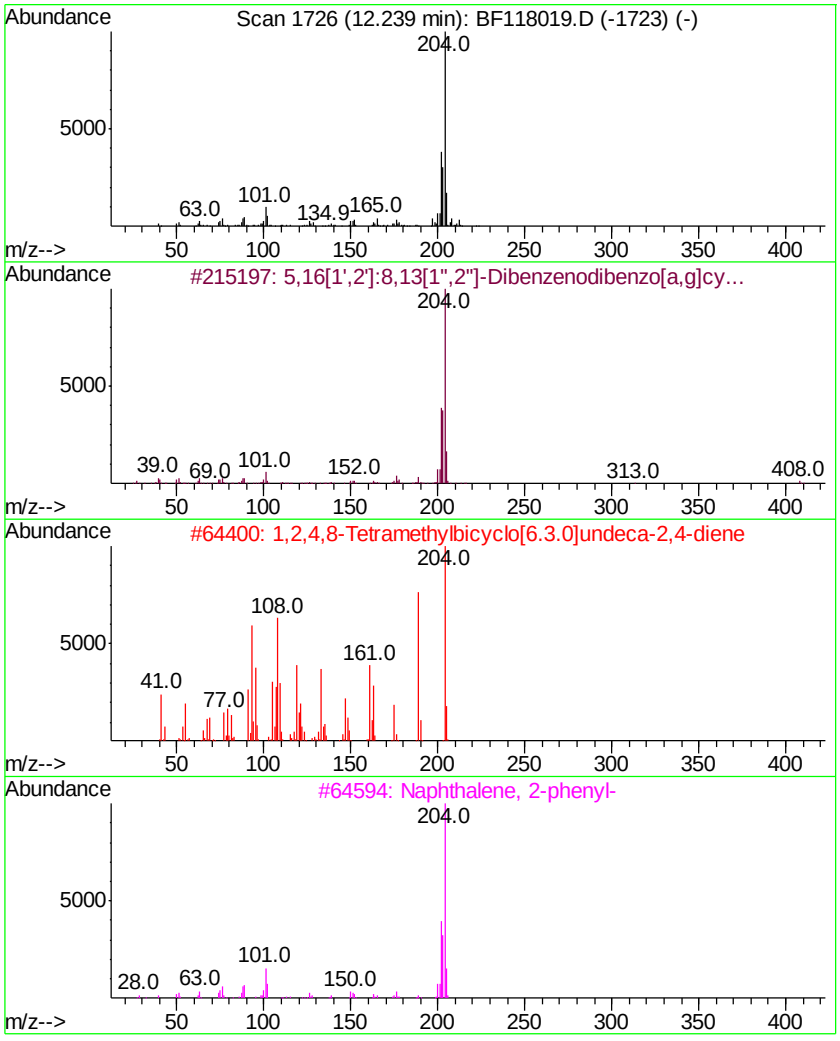
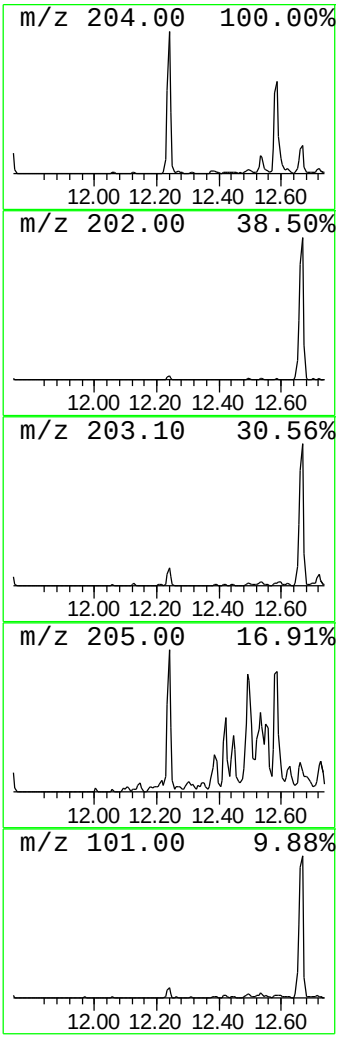
Peak Number 12 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	6.97 ng	273421	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62





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Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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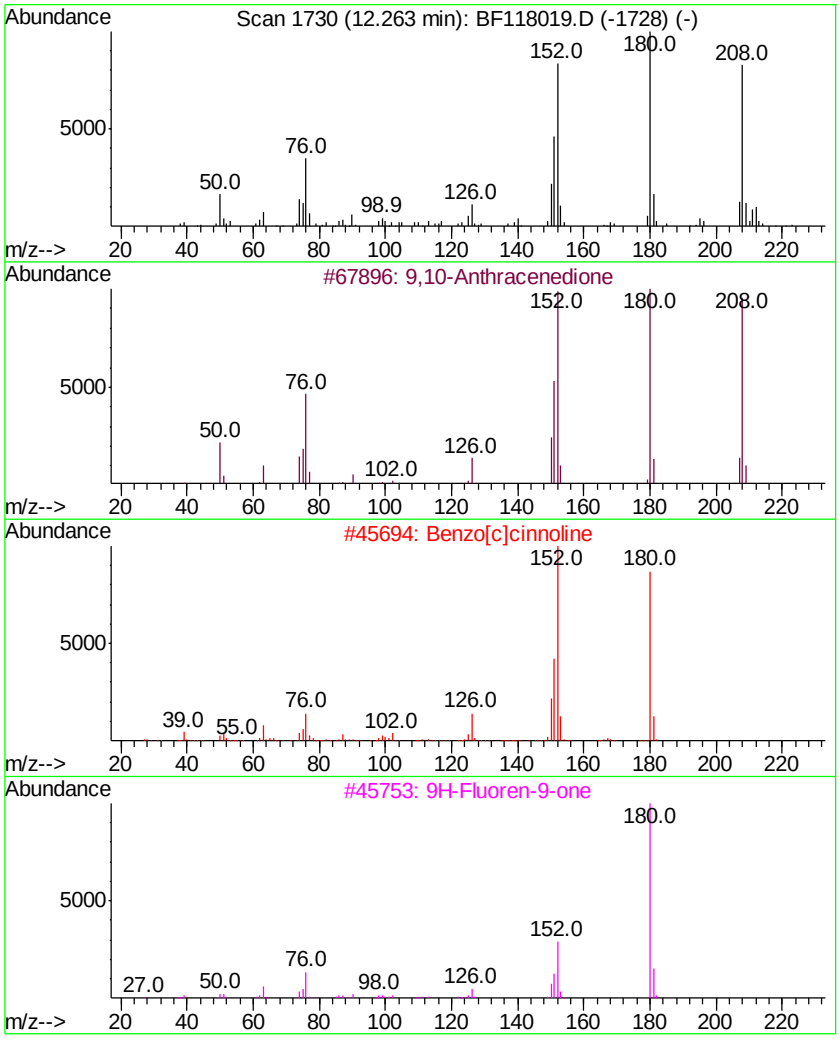
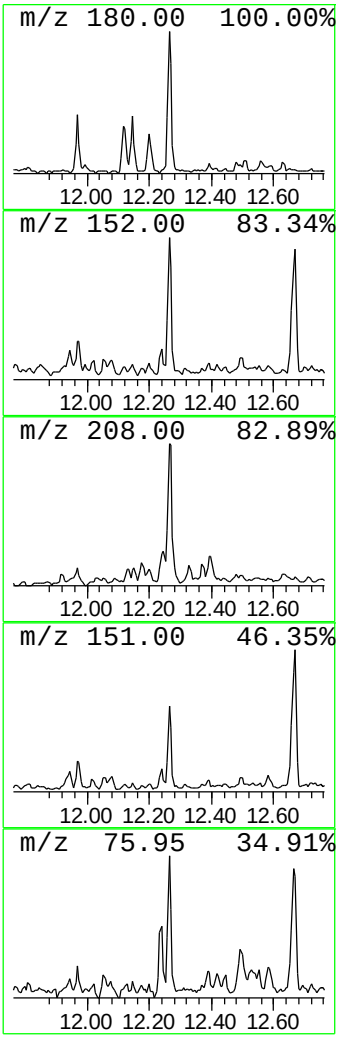
Peak Number 13 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	3.57 ng	140110	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	55
5	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	53





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Misc :
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ClientSampleId : WS-112019-2-5-COMP-B2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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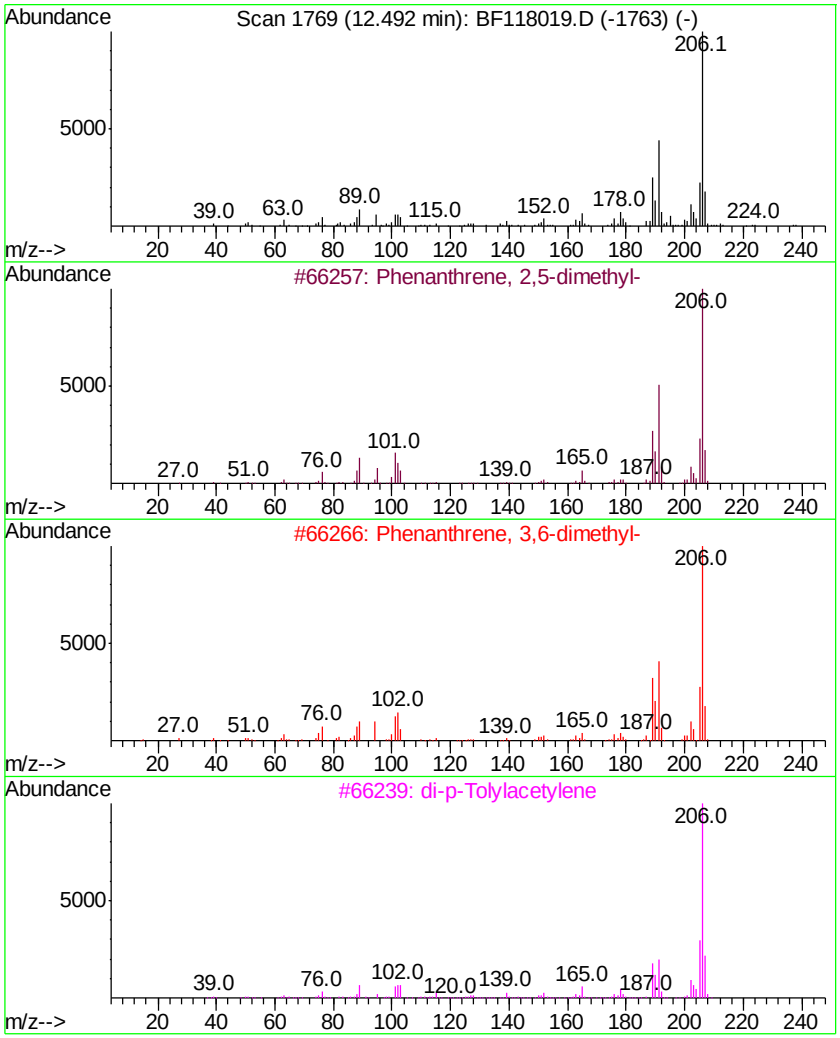
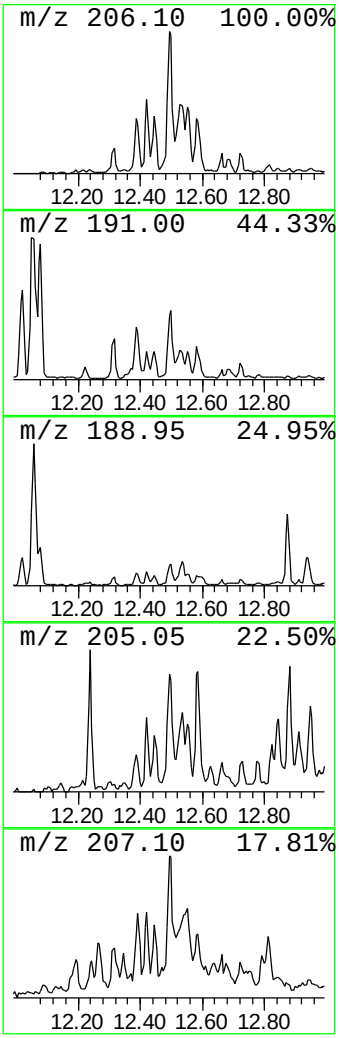
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	8.53 ng	334471	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91





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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

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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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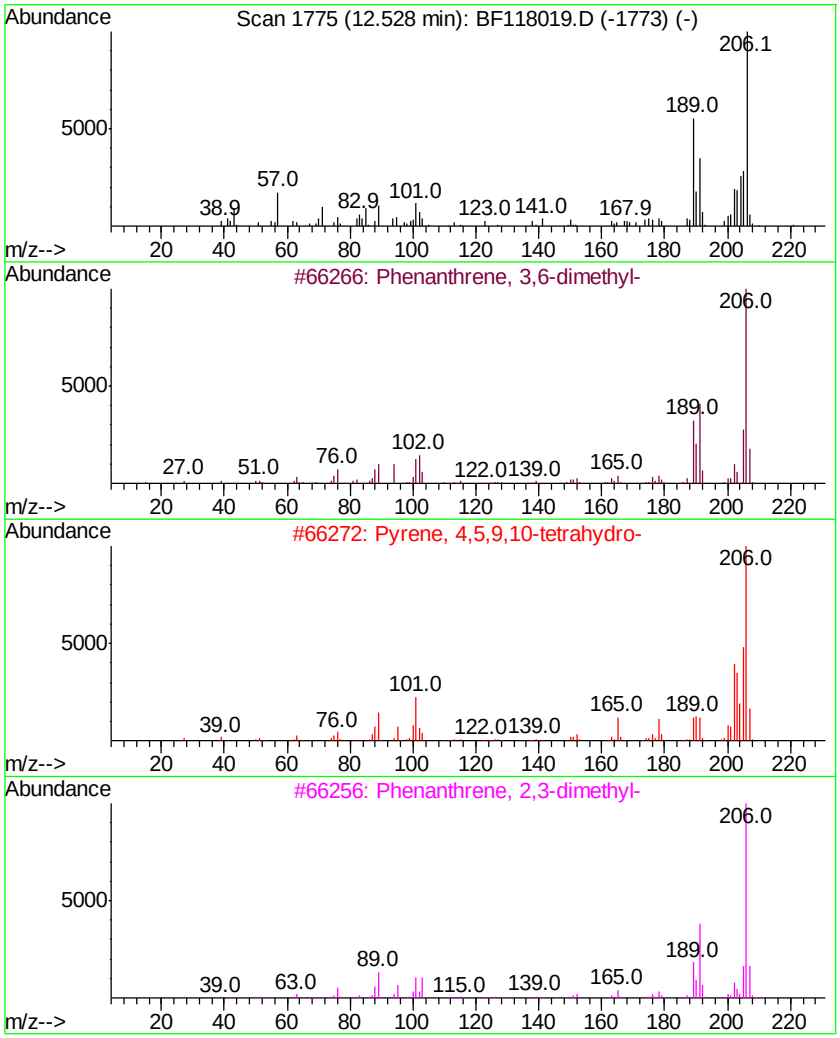
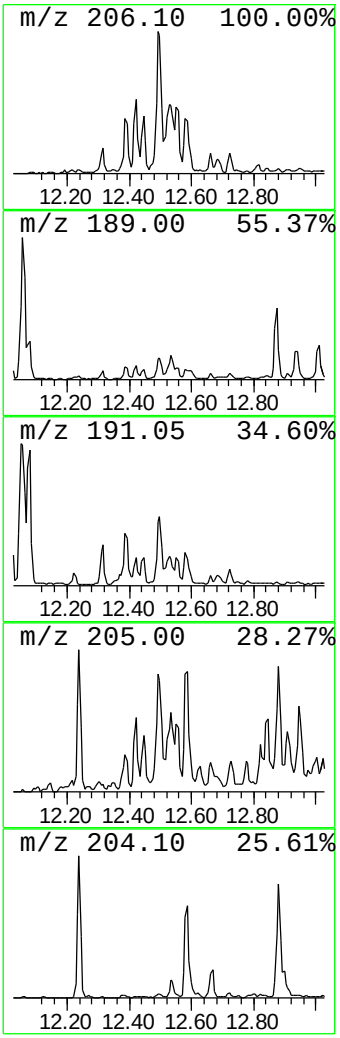
Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	4.64 ng	181879	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	83
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	42
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	30
4	3-Benzofurancarboxylic acid, 2-e...	204	C12H12O3	040800-94-0	27
5	1,2,3,3a-Tetrahydro-10-phenylben...	260	C18H16N2	028749-06-6	27





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Misc :
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ClientSampleId : WS-112019-2-5-COMP-B2

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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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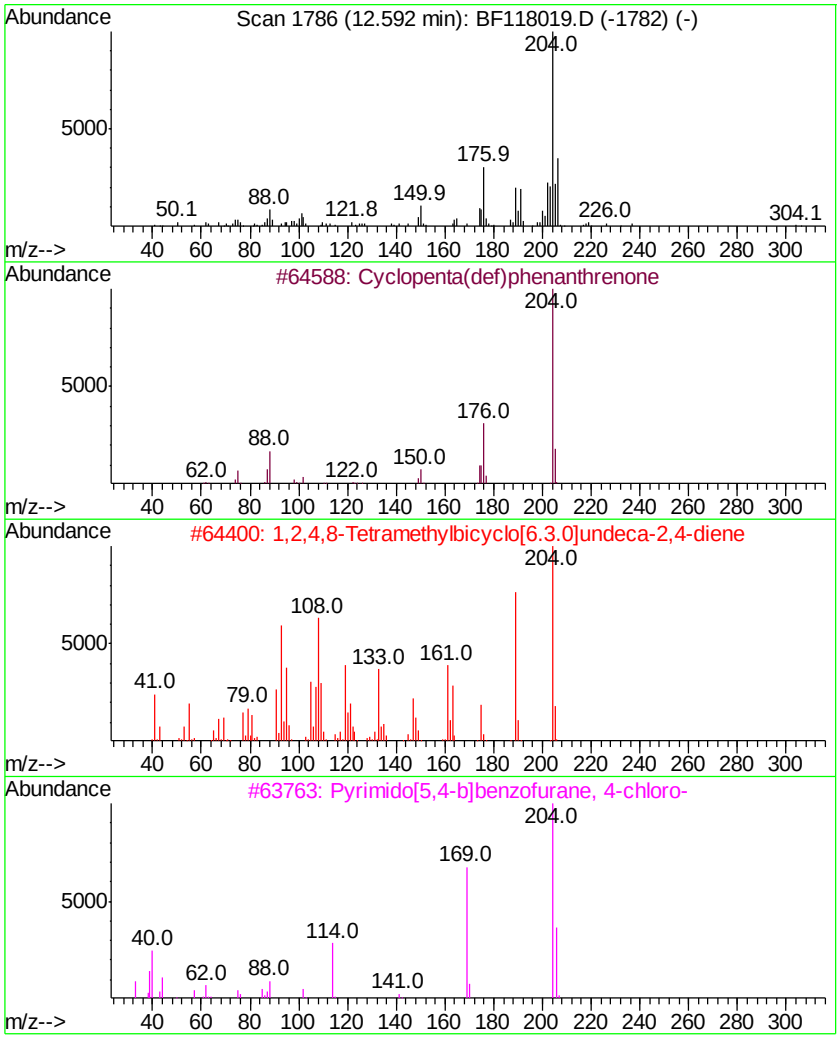
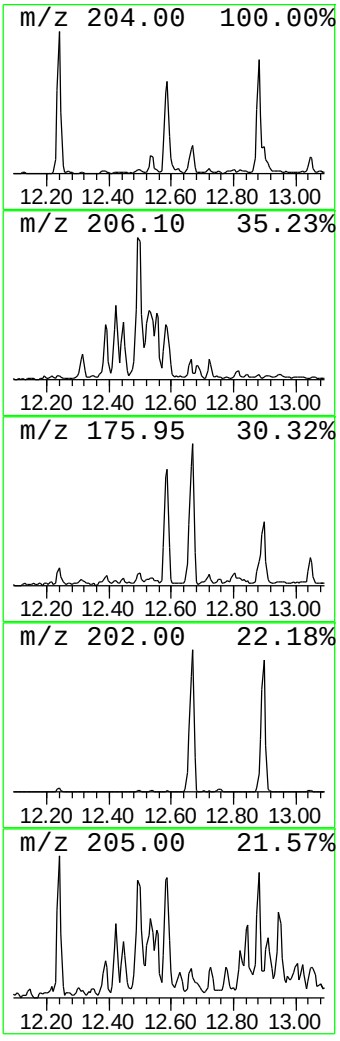
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.59	7.77 ng	304643	Phenanthrene-d10	11.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	95
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
3	Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	43
4	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
5	2-Naphthalenecarboxylic acid, 4-...	222	C11H7ClO3	005409-15-4	38





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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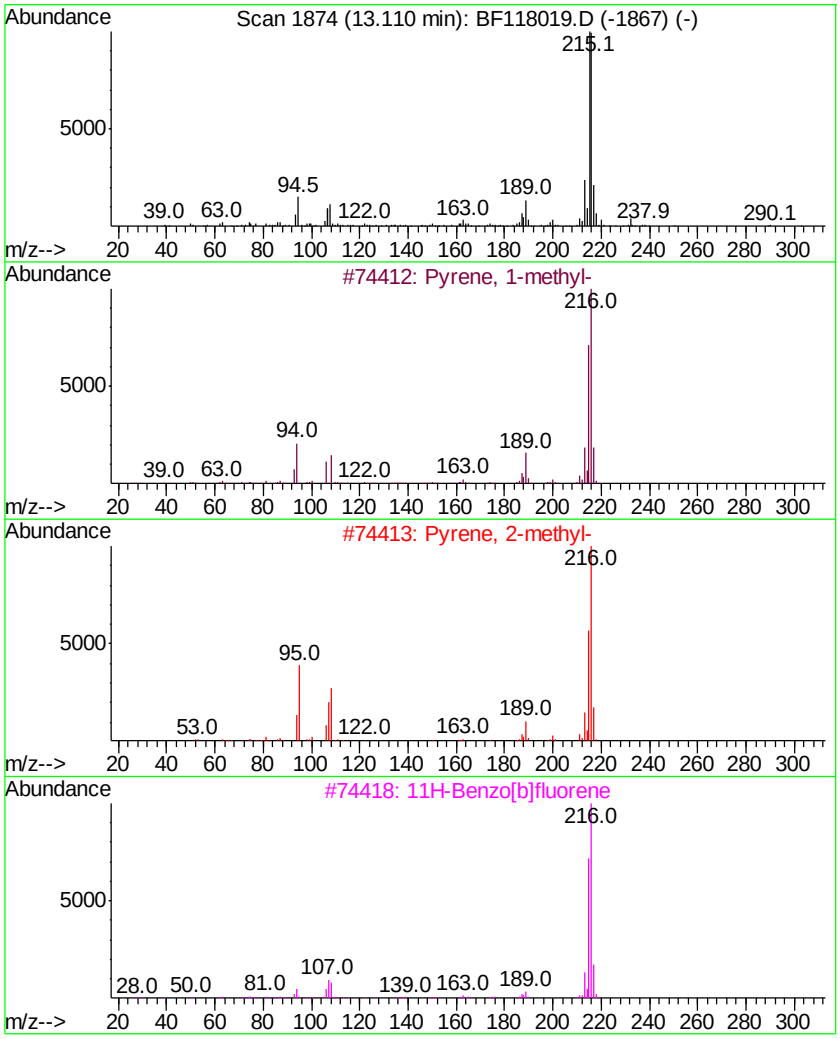
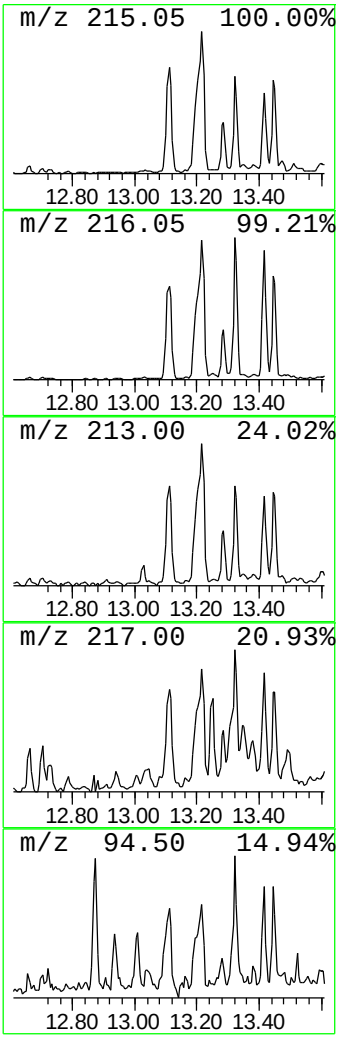
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	3.77 ng	463689	Chrysene-d12	14.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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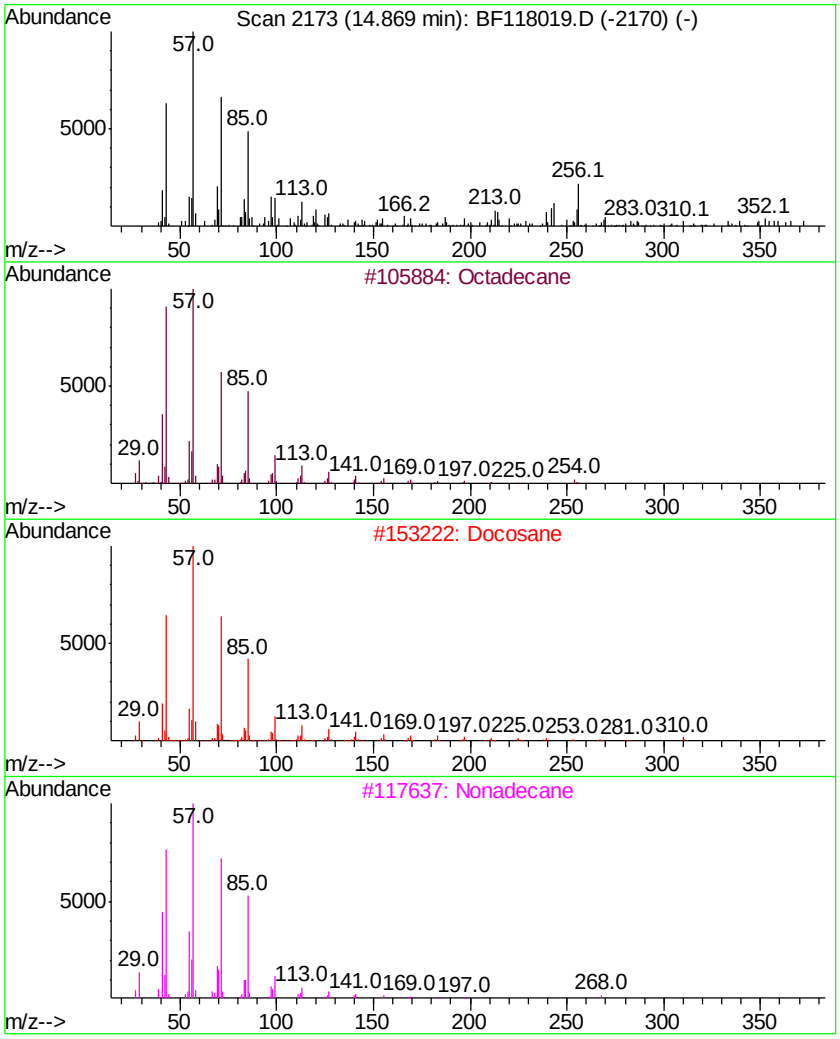
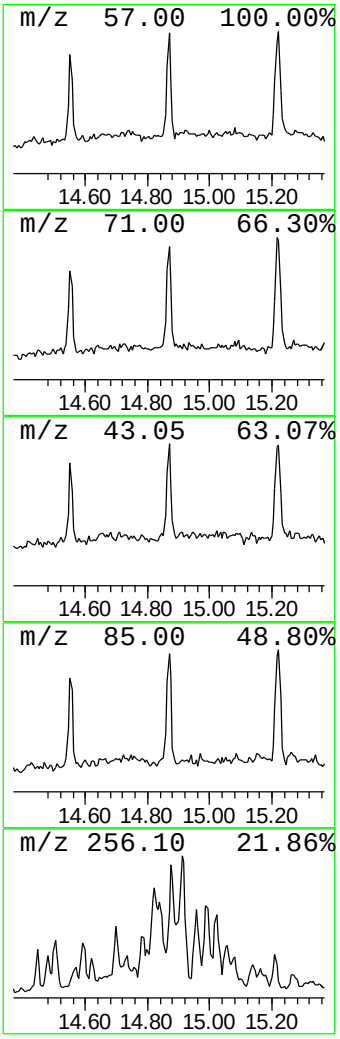
Peak Number 18 Octadecane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	4.28 ng	121796	Perylene-d12	15.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	90
2	Docosane	310	C22H46	000629-97-0	89
3	Nonadecane	268	C19H40	000629-92-5	70
4	Hexacosane	366	C26H54	000630-01-3	55
5	Hexadecane	226	C16H34	000544-76-3	49





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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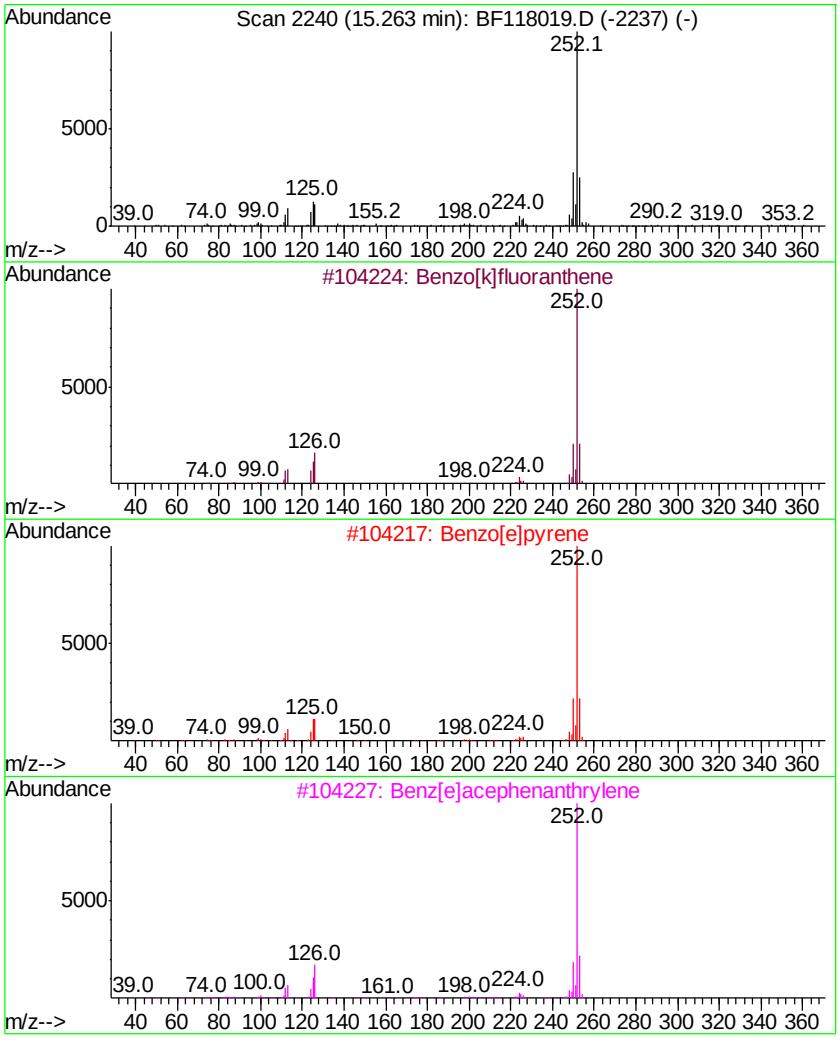
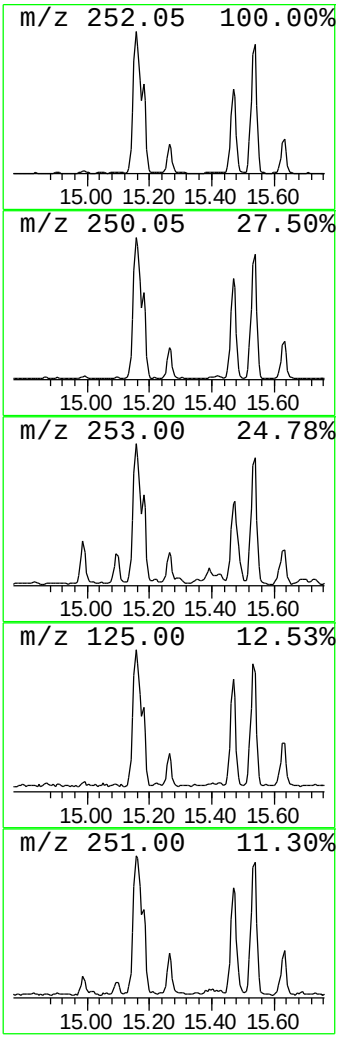
Peak Number 19 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.26	6.01 ng	170941	Perylene-d12	15.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	87
5	Perylene	252	C20H12	000198-55-0	81





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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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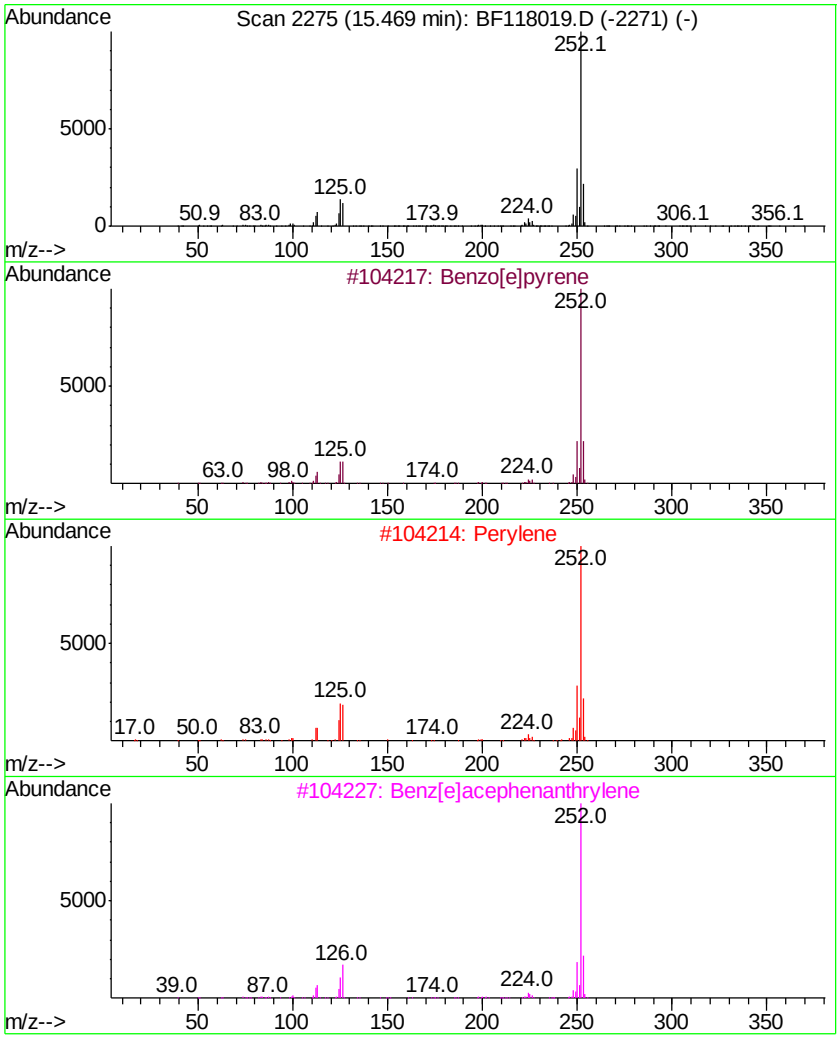
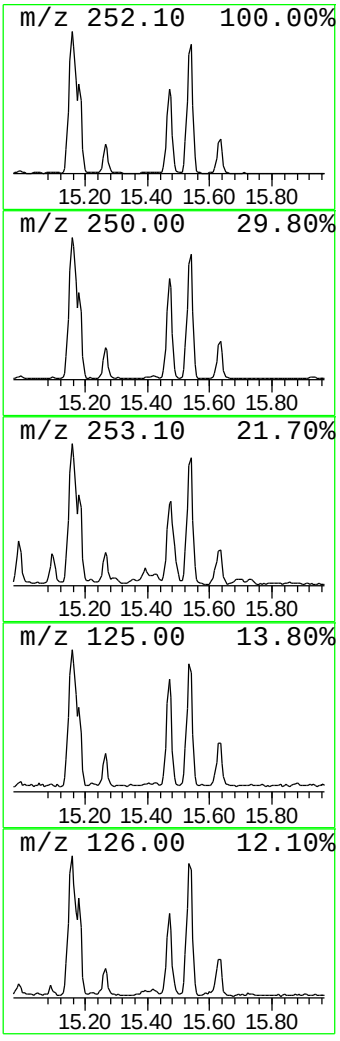
Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.47	25.78 ng	733719	Perylene-d12	15.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF112619\
Data File : BF118019.D
Acq On : 26 Nov 2019 20:48
Operator : JU
Sample : K5959-11 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.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
Butane, 2-methoxy...	2.15	6.0	ng	203052	1	6.89	679467	20.0
unknown6.66	6.66	15.2	ng	514985	1	6.89	679467	20.0
9H-Fluoren-9-one	11.24	4.0	ng	157552	4	11.44	784434	20.0
Anthracene, 1,2,3...	11.30	4.7	ng	185675	4	11.44	784434	20.0
Naphtho[2,1-b]thi...	11.33	4.4	ng	173227	4	11.44	784434	20.0
Phenanthrene, 2-m...	11.95	11.5	ng	451801	4	11.44	784434	20.0
Phenanthrene, 1-m...	11.97	13.9	ng	546251	4	11.44	784434	20.0
Phenanthrene, 3-m...	12.02	5.9	ng	230803	4	11.44	784434	20.0
4H-Cyclopenta[def...	12.06	15.8	ng	620076	4	11.44	784434	20.0
1H-Cyclopropa[l]p...	12.08	6.3	ng	245365	4	11.44	784434	20.0
5,16[1',2']:8,13[...	12.24	7.0	ng	273421	4	11.44	784434	20.0
9,10-Anthracenedione	12.26	3.6	ng	140110	4	11.44	784434	20.0
Phenanthrene, 2,5...	12.49	8.5	ng	334471	4	11.44	784434	20.0
Phenanthrene, 3,6...	12.53	4.6	ng	181879	4	11.44	784434	20.0
Cyclopenta(def)ph...	12.59	7.8	ng	304643	4	11.44	784434	20.0
Pyrene, 1-methyl-	13.11	3.8	ng	463689	5	14.10	2459120	20.0
Octadecane	14.87	4.3	ng	121796	6	15.60	569164	20.0
Benzo[e]pyrene	15.26	6.0	ng	170941	6	15.60	569164	20.0
Perylene	15.47	25.8	ng	733719	6	15.60	569164	20.0