LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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	5.498	576	580	592	rBV	1532363	1428219	14.18%	1.043%
2	6.510	748	752	773	rBV	1762498	1510486	14.99%	1.103%
3	6.651	773	776	780	rBV	1972270	1612206	16.00%	1.177%
4	6.881	812	815	819	rBV	919497	800966	7.95%	0.585%
5	7.039	838	842	845	rBV	1639195	1269876	12.60%	0.927%
6	7.445	907	911	914	rBV	1051962	912644	9.06%	0.666%
7	8.169	1031	1034	1037	rBV	1193038	1017227	10.10%	0.743%
8	9.251	1214	1218	1221	rBV	1983983	1803182	17.90%	1.317%
9	9.639	1282	1284	1292	rVB	299636	312354	3.10%	0.228%
10	9.792	1308	1310	1314	rVB	448443	375296	3.73%	0.274%
11	9.933	1328	1334	1337	rBV	1408209	1176141	11.67%	0.859%
12	10.133	1364	1368	1372	rVV2	261969	287587	2.85%	0.210%
13	10.551	1433	1439	1441	rBV2	212233	318903	3.17%	0.233%
14	10.639	1449	1454	1458	rVB4	170278	325706	3.23%	0.238%
15	10.721	1463	1468	1472	rVB	1231146	1183814	11.75%	0.864%
16	10.851	1485	1490	1493	rBV3	309889	389646	3.87%	0.285%
17	11.033	1516	1521	1524	rBV3	248670	331959	3.29%	0.242%
18	11.163	1538	1543	1545	rBV2	217747	364923	3.62%	0.266%
19	11.186	1545	1547	1551	rVV2	331698	312798	3.10%	0.228%
20	11.233	1551	1555	1558	rVV2	299953	311052	3.09%	0.227%
21	11.286	1558	1564	1568	rVV3	250994	497820	4.94%	0.364%
22	11.321	1568	1570	1576	rVB2	332746	368654	3.66%	0.269%
23	11.427	1585	1588	1590	rBV	1060999	1003646	9.96%	0.733%
24	11.457	1590	1593	1596	rVV	4344305	3836893	38.08%	2.802%
25	11.504	1598	1601	1604	rVB	1246488	970861	9.64%	0.709%
26	11.533	1604	1606	1610	rBV2	246460	306650	3.04%	0.224%
27	11.721	1635	1638	1641	rVB3	386353	380650	3.78%	0.278%
28	11.763	1641	1645	1650	rVB	701768	705569	7.00%	0.515%
29	11.845	1656	1659	1662	rVB	275258	293149	2.91%	0.214%
30	11.933	1671	1674	1677	rVV	1992882	2201516	21.85%	1.608%
31	11.968	1677	1680	1683	rVB	2599557	2401722	23.84%	1.754%
32	12.010	1683	1687	1690	rBV	960412	891382	8.85%	0.651%
33	12.051	1690	1694	1696	rVV	2929043	3415389	33.90%	2.494%
34	12.074	1696	1698	1701	rVB	2235502	1607564	15.96%	1.174%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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

35	12.127	1701	1707	1711	rBV6	238732	530232	5.26%	0.387%
36	12.168	1711	1714	1716	rVB	511626	407673	4.05%	0.298%
37	12.233	1716	1725	1727	rBV2	1251046	1593126	15.81%	1.163%
38	12.263	1727	1730	1735	rVB3	787031	894098	8.87%	0.653%
39	12.304	1735	1737	1739	rBV	420868	340834	3.38%	0.249%
40	12.363	1744	1747	1748	rBV	465802	399092	3.96%	0.291%
41	12.380	1748	1750	1753	rVV	948787	822804	8.17%	0.601%
42	12.415	1753	1756	1758	rVV	756971	732037	7.27%	0.535%
43	12.439	1758	1760	1762	rVB	655934	518904	5.15%	0.379%
44	12.492	1762	1769	1771	rBV	2759958	3059529	30.37%	2.234%
45	12.527	1771	1775	1777	rVV2	1426592	2003612	19.89%	1.463%
46	12.551	1777	1779	1781	rVB	675276	512981	5.09%	0.375%
47	12.580	1781	1784	1788	rBV2	1517878	1882681	18.69%	1.375%
48	12.663	1793	1798	1801	rBV	5836775	6389013	63.42%	4.665%
49	12.698	1801	1804	1805	rVV	467087	398534	3.96%	0.291%
50	12.715	1805	1807	1810	rVV3	578246	563708	5.60%	0.412%
51	12.745	1810	1812	1815	rVB3	285367	290090	2.88%	0.212%
52	12.792	1815	1820	1823	rBV4	494125	829430	8.23%	0.606%
53	12.839	1826	1828	1831	rVB	502580	444523	4.41%	0.325%
54	12.898	1831	1838	1841	rBV	7185278	10074893	100.00%	7.357%
55	12.939	1841	1845	1849	rVB3	990817	1262007	12.53%	0.922%
56	12.998	1852	1855	1856	rBV2	422096	370442	3.68%	0.271%
57	13.021	1856	1859	1861	rVV	1787499	1599998	15.88%	1.168%
58	13.039	1861	1862	1866	rVB2	827564	770587	7.65%	0.563%
59	13.104	1869	1873	1880	rBV5	1538783	2669470	26.50%	1.949%
60	13.157	1880	1882	1885	rBV	503604	512181	5.08%	0.374%
61	13.192	1885	1888	1889	rBV2	1250150	1272377	12.63%	0.929%
62	13.215	1890	1892	1894	rVB	1612912	1326627	13.17%	0.969%
63	13.280	1901	1903	1905	rVV2	553309	410093	4.07%	0.299%
64	13.321	1906	1910	1913	rVV2	2244268	2168797	21.53%	1.584%
65	13.374	1917	1919	1922	rVB	330653	304144	3.02%	0.222%
66	13.415	1922	1926	1928	rBV	2033851	1906094	18.92%	1.392%
67	13.445	1928	1931	1934	rVB	1894530	1676800	16.64%	1.224%
68	13.474	1934	1936	1940	rVB4	281911	284209	2.82%	0.208%
69	13.527	1942	1945	1948	rVB2	447459	507350	5.04%	0.370%
70	13.592	1953	1956	1957	rBV	304625	312991	3.11%	0.229%
71	13.662	1966	1968	1971	rVB3	472977	385390	3.83%	0.281%

LSC Area Percent Report

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Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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

72	13.727	1972	1979	1983	rBV	1779049	2046516	20.31%	1.494%
73	13.786	1987	1989	1992	rVB	450994	358990	3.56%	0.262%
74	13.833	1993	1997	2000	rBV2	1395675	1998340	19.83%	1.459%
75	13.862	2000	2002	2005	rVV	1174504	1096021	10.88%	0.800%
76	13.892	2005	2007	2010	rVV2	646085	787507	7.82%	0.575%
77	13.939	2012	2015	2018	rVB	1192429	1238535	12.29%	0.904%
78	14.062	2032	2036	2038	rBV	4402770	4610022	45.76%	3.366%
79	14.086	2038	2040	2043	rVV2	4409908	5219194	51.80%	3.811%
80	14.127	2043	2047	2053	rVB	5380978	6184263	61.38%	4.516%
81	14.180	2053	2056	2058	rBV	539447	613321	6.09%	0.448%
82	14.239	2064	2066	2067	rBV	362450	314293	3.12%	0.230%
83	14.345	2082	2084	2088	rVB2	457647	427567	4.24%	0.312%
84	14.409	2092	2095	2098	rBV3	499858	498666	4.95%	0.364%
85	14.445	2098	2101	2103	rBV	662209	710208	7.05%	0.519%
86	14.486	2103	2108	2110	rVV	1952638	2326162	23.09%	1.699%
87	14.515	2110	2113	2116	rVB	1445300	1221282	12.12%	0.892%
88	14.557	2116	2120	2126	rVB3	709460	1441962	14.31%	1.053%
89	14.609	2126	2129	2131	rBV	1051775	919282	9.12%	0.671%
90	14.674	2136	2140	2147	rVB2	776636	1013848	10.06%	0.740%
91	14.821	2162	2165	2170	rVB	378950	596390	5.92%	0.435%
92	14.909	2178	2180	2184	rVB	484129	521968	5.18%	0.381%
93	15.162	2216	2223	2230	rBV	2777629	6236398	61.90%	4.554%
94	15.268	2237	2241	2244	rVB	571370	616799	6.12%	0.450%
95	15.474	2271	2276	2281	rVB	1862644	2520526	25.02%	1.841%
96	15.545	2282	2288	2292	rVB	2494403	3312536	32.88%	2.419%
97	15.604	2294	2298	2300	rVV	712610	957927	9.51%	0.700%
98	15.633	2300	2303	2310	rVB3	615405	1037772	10.30%	0.758%
99	17.127	2551	2557	2565	rVB2	773115	1552365	15.41%	1.134%
100	17.586	2629	2635	2644	rVB	553934	1211361	12.02%	0.885%

Sum of corrected areas: 136943822

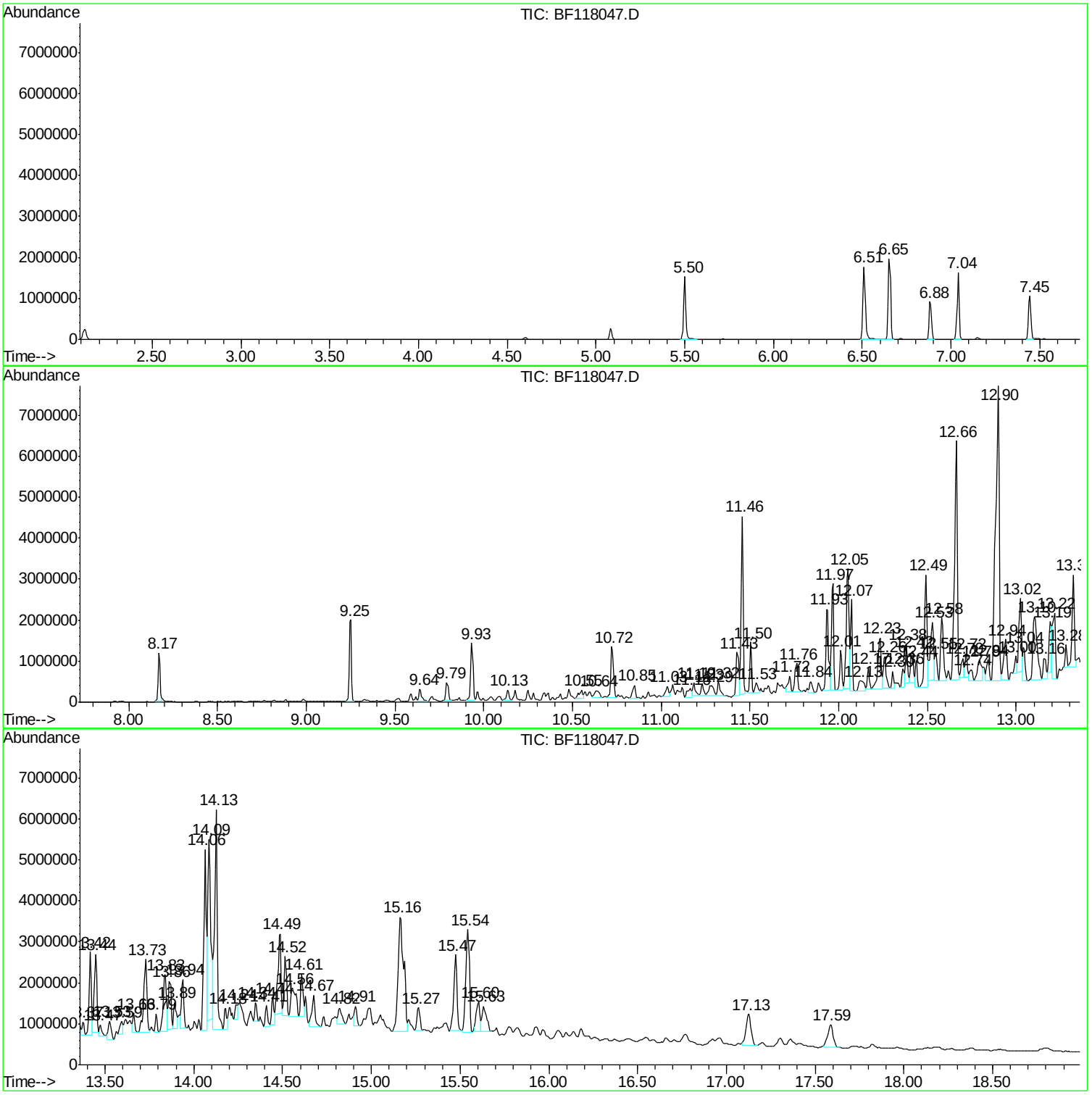
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WS-112019-2-5-COMP-B4

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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

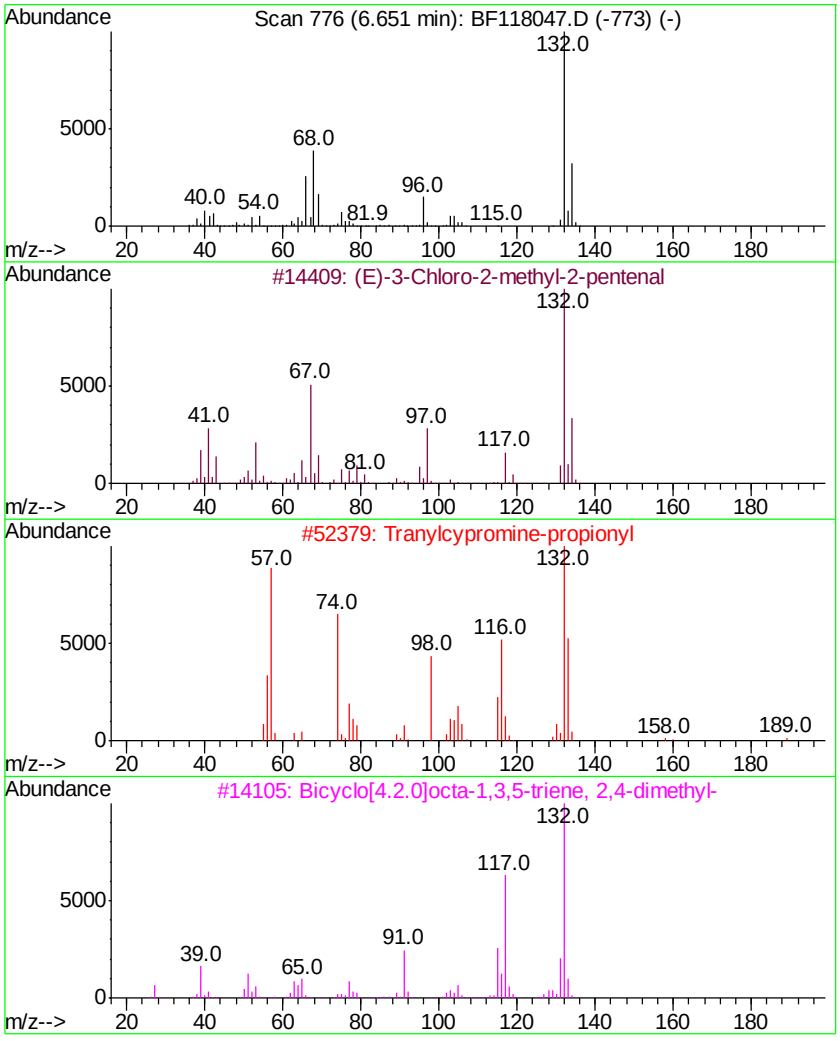
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

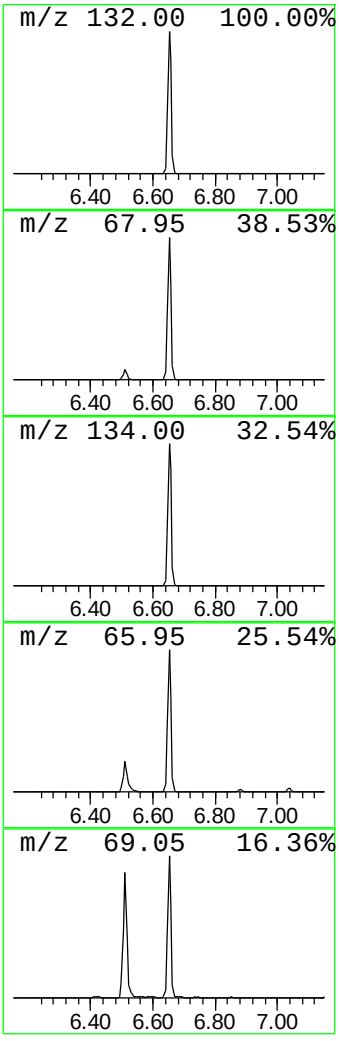
****

Peak Number 1 unknown6.65 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	40.26 ng	1612210	1,4-Dichlorobenzene-d4	6.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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

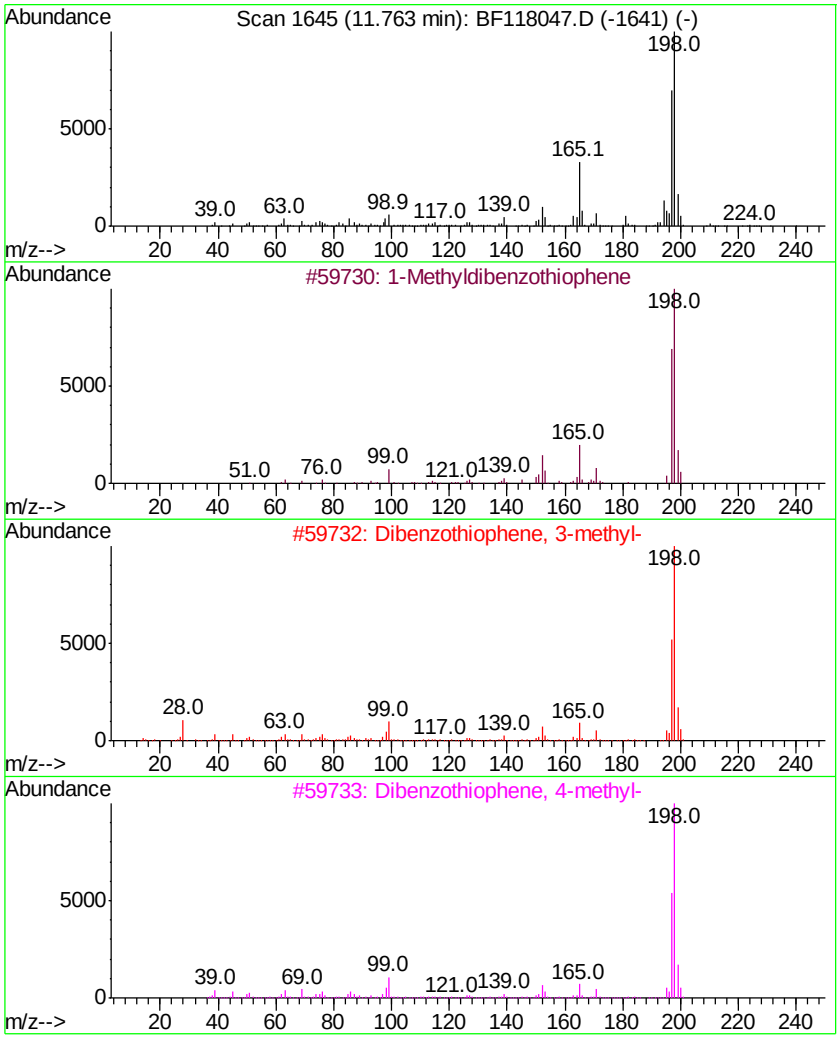
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

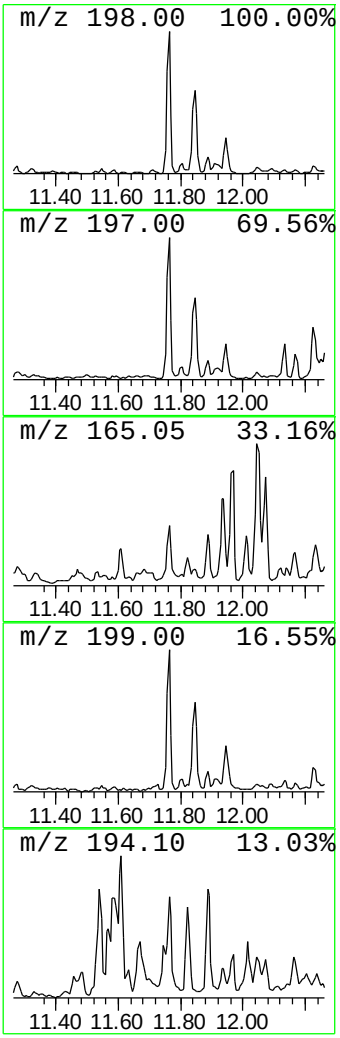
****

Peak Number 3 1-Methyldibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	14.06 ng	705569	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	96
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
3	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	87
4	Thioxanthene	198	C13H10S	000261-31-4	60
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	59





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
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Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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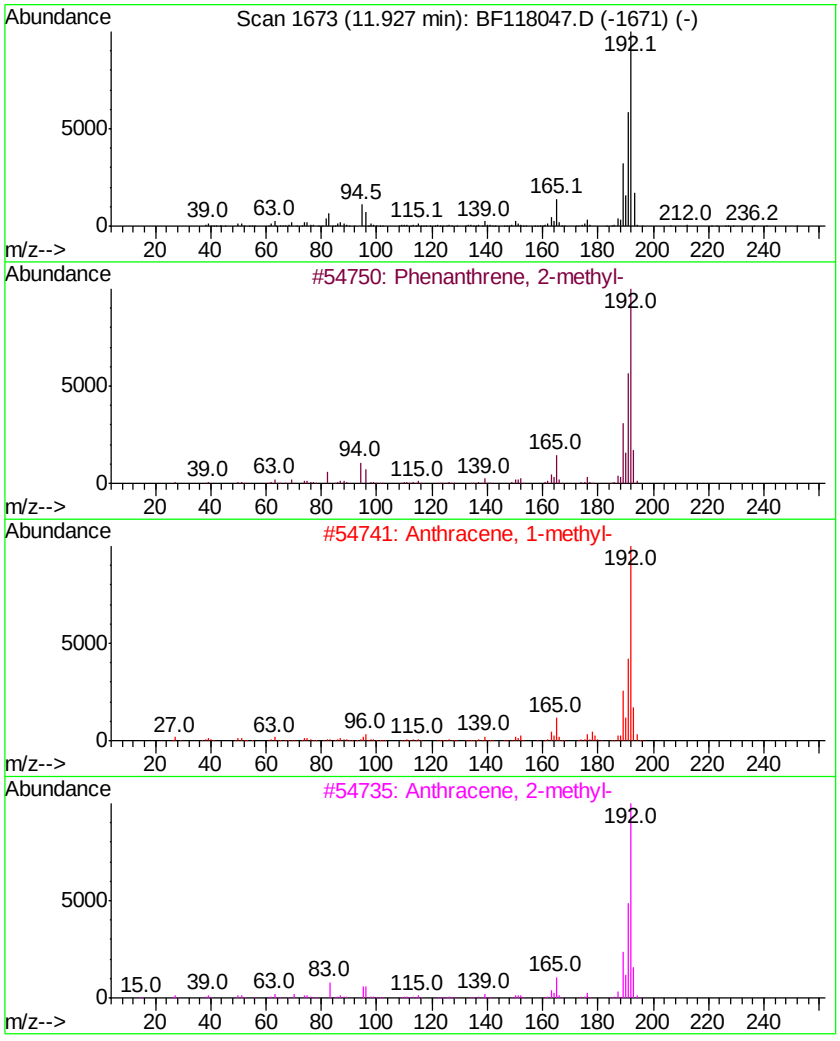
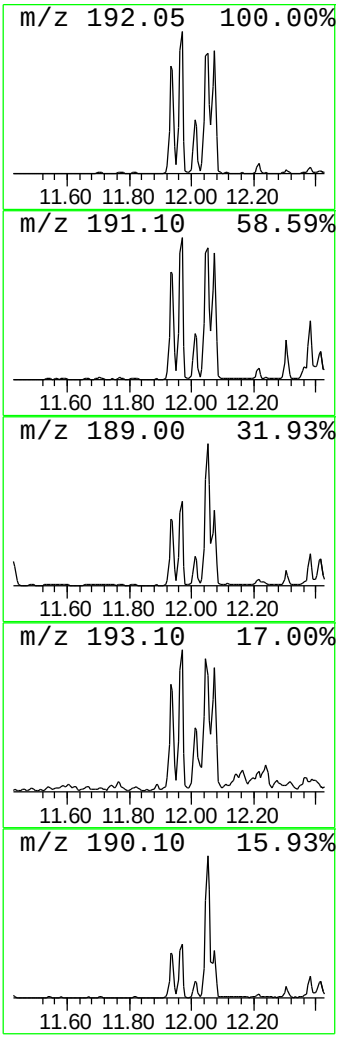
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.93	43.87 ng	2201520	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
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Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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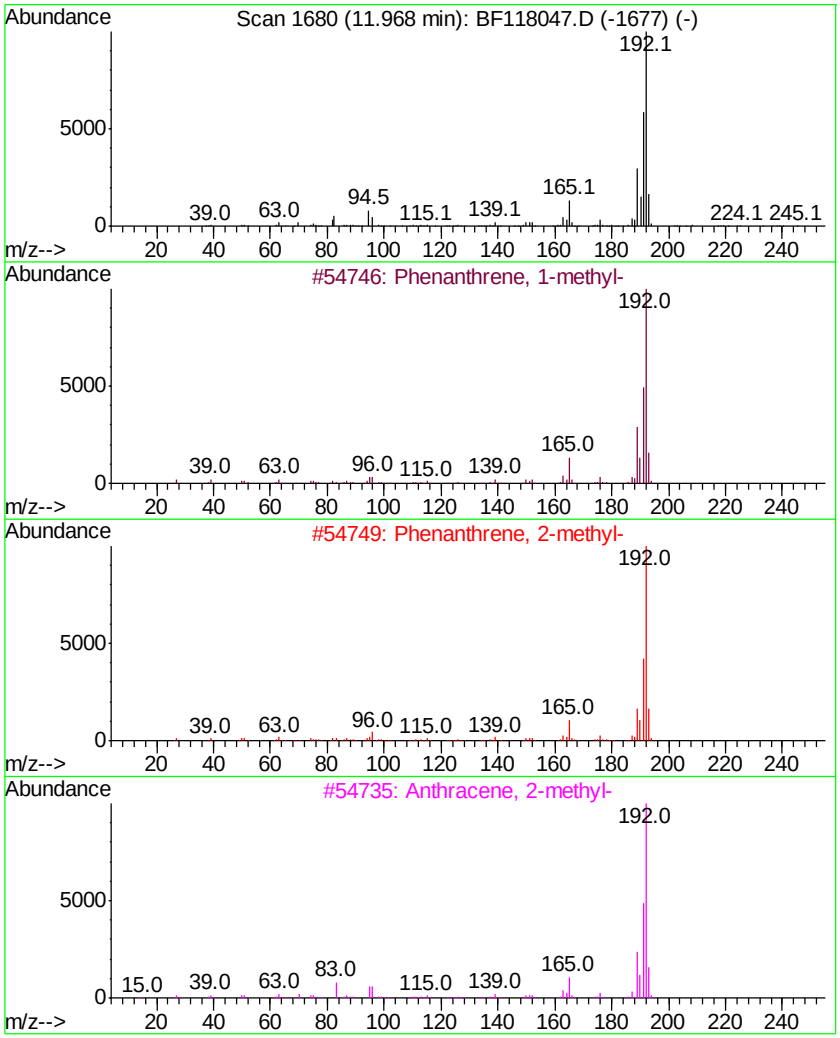
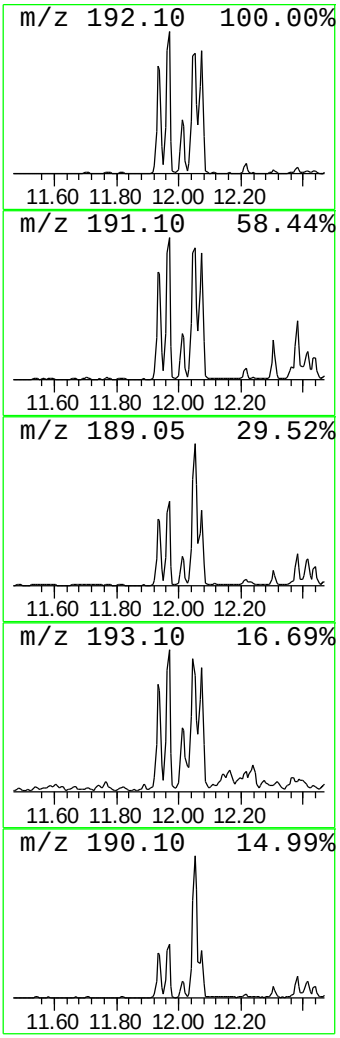
Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	47.86 ng	2401720	Phenanthrene-d10	11.43

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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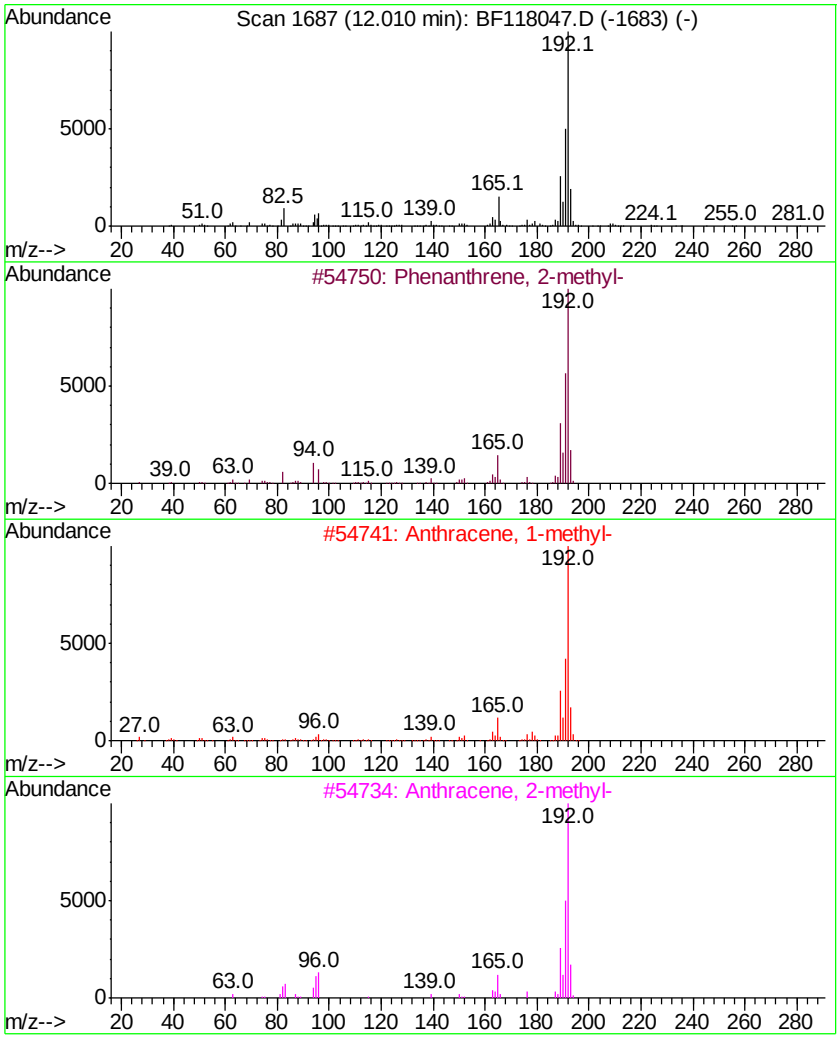
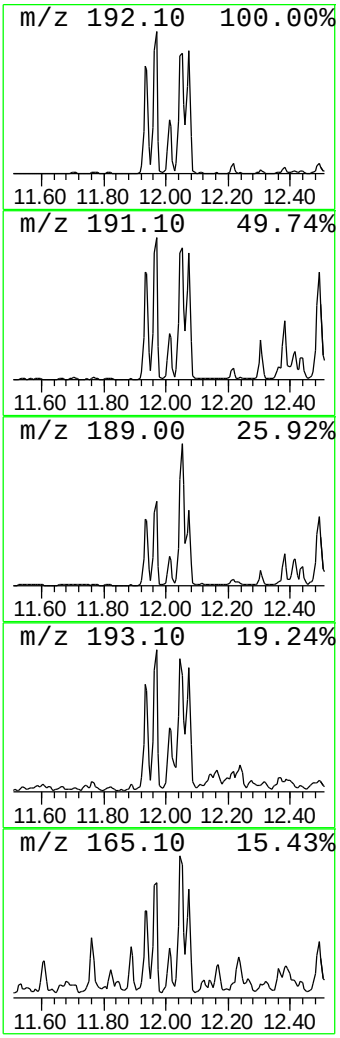
Peak Number 6 Anthracene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	17.76 ng	891382	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





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Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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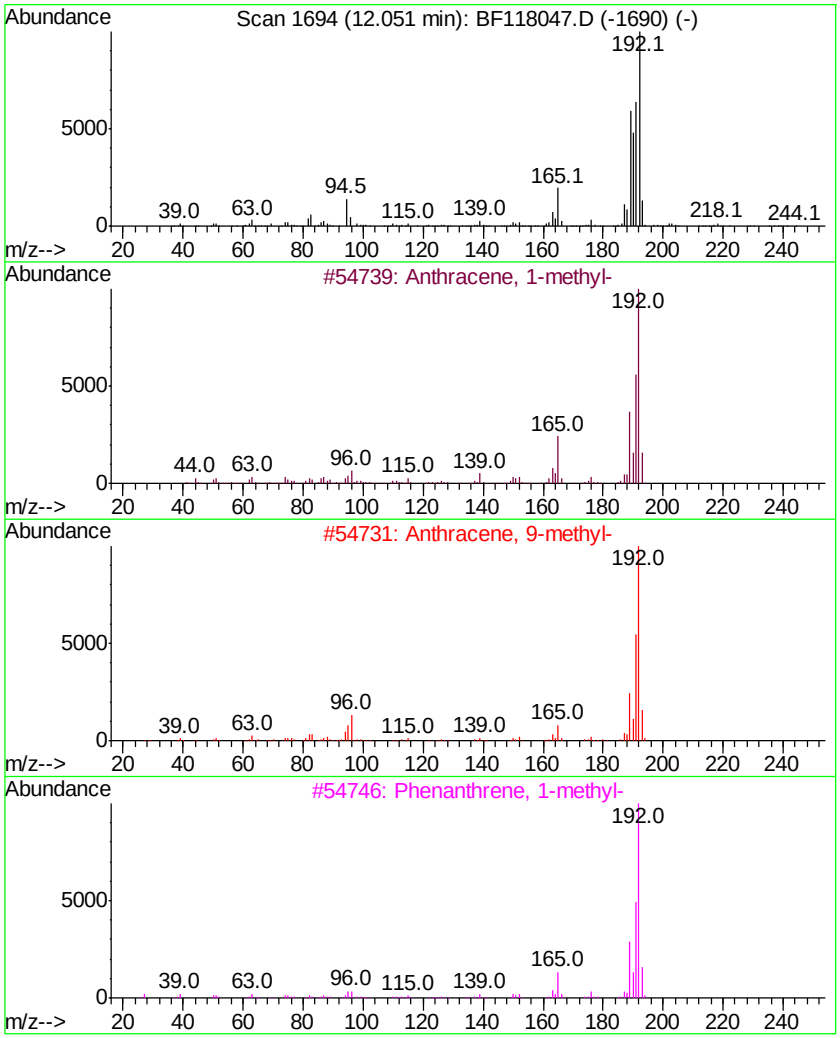
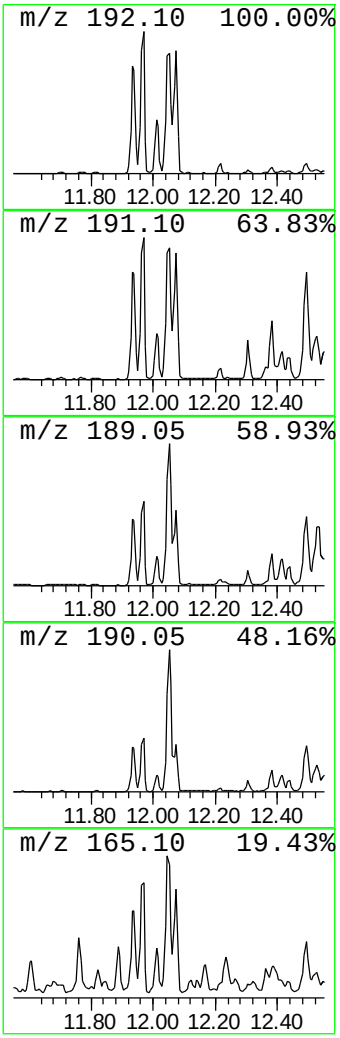
Peak Number 7 Anthracene, 9-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	68.06 ng	3415390	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	78
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	64
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	60
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	60
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	60





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Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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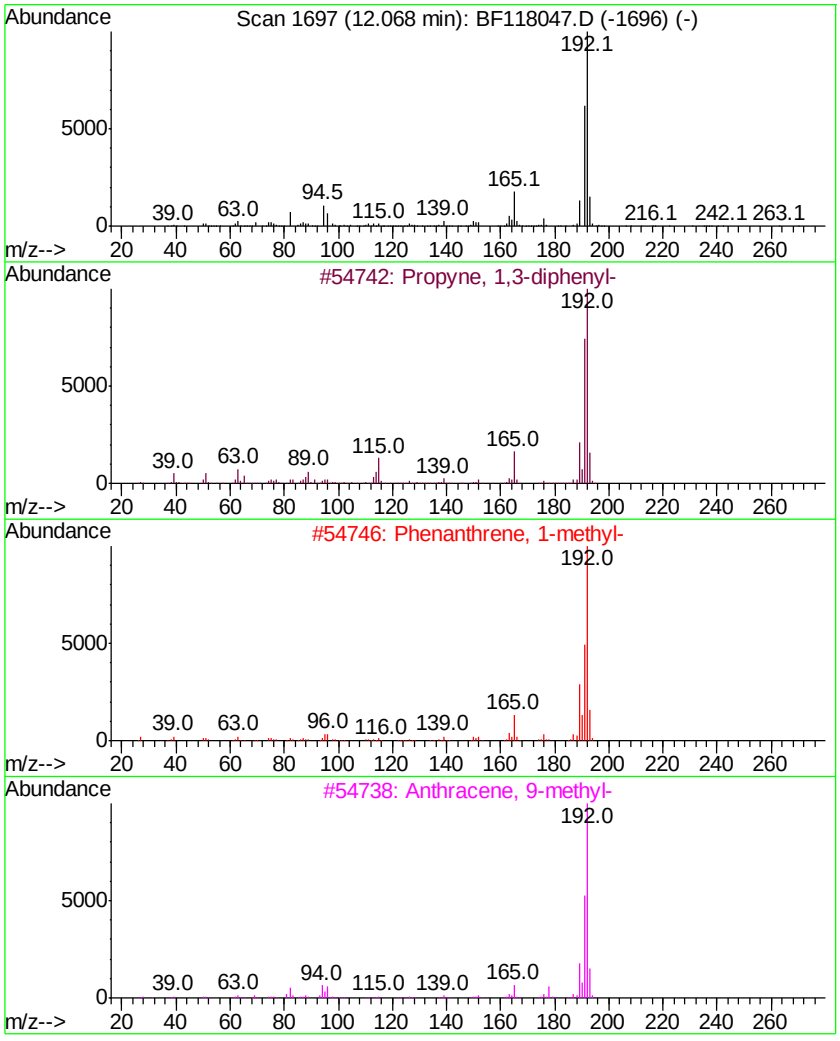
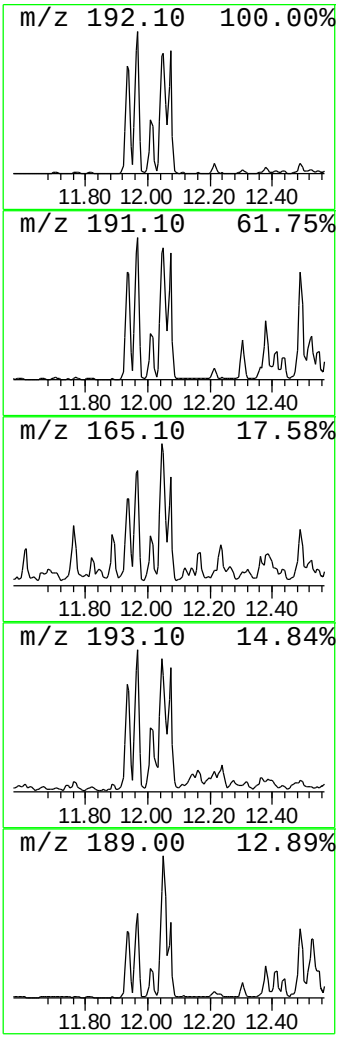
Peak Number 8 Propyne, 1,3-diphenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	32.03 ng	1607560	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	91
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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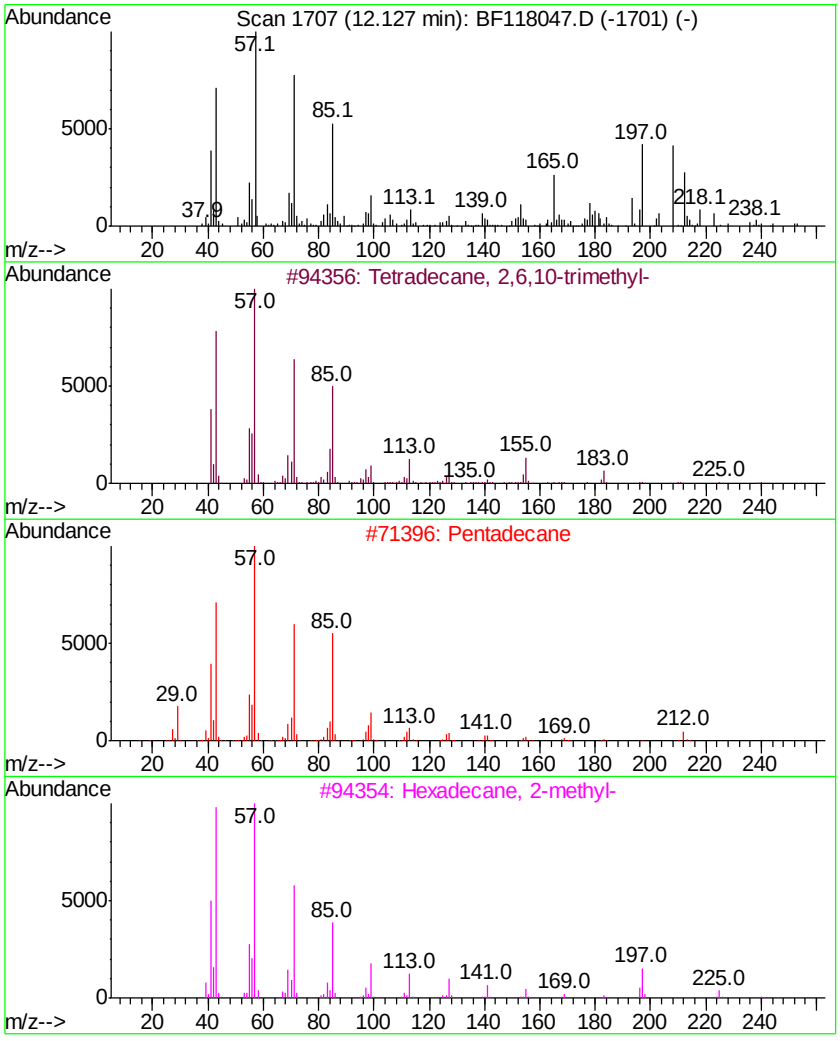
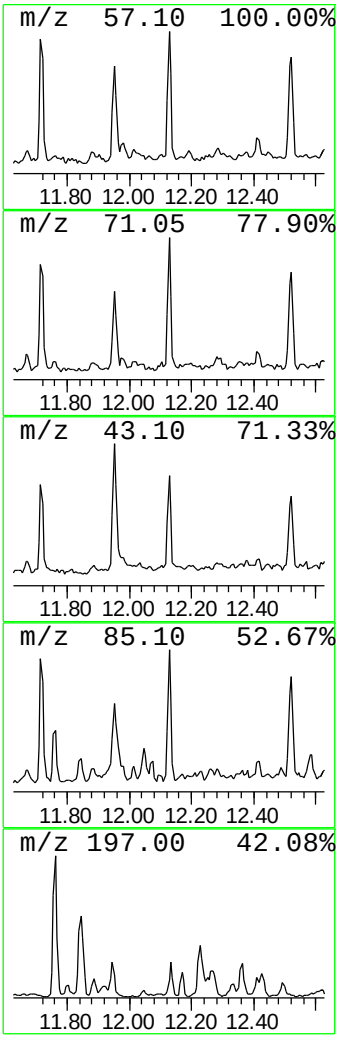
Peak Number 9 Tetradecane, 2,6,10-trimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	10.57 ng	530232	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	62
2	Pentadecane	212	C15H32	000629-62-9	45
3	Hexadecane, 2-methyl-	240	C17H36	001560-92-5	45
4	Heptacosane	380	C27H56	000593-49-7	41
5	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	41





Library Search Compound Report

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Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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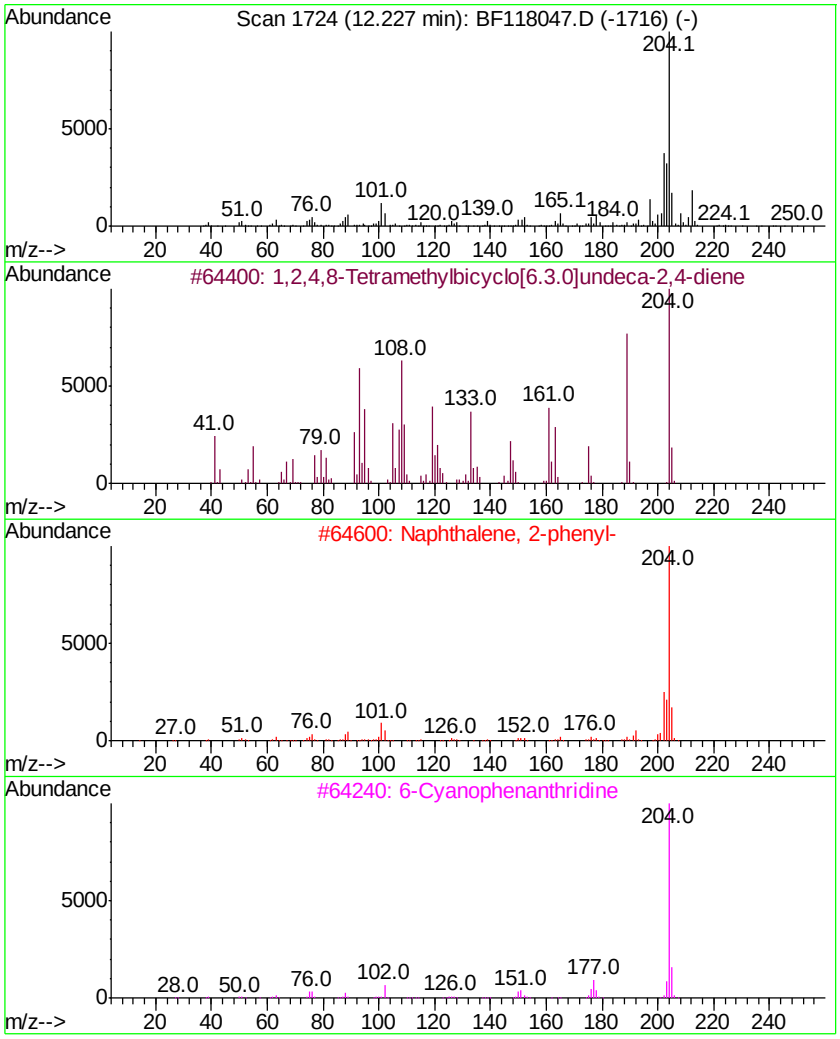
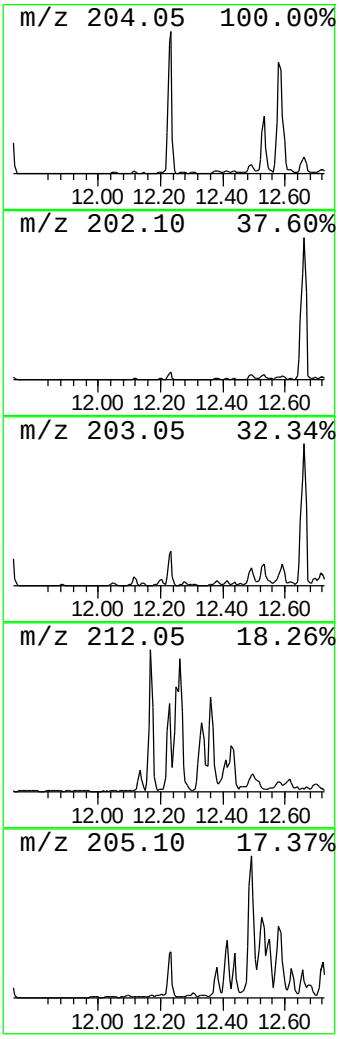
Peak Number 10 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	31.75 ng	1593130	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60
3	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	50
4	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	45
5	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	45





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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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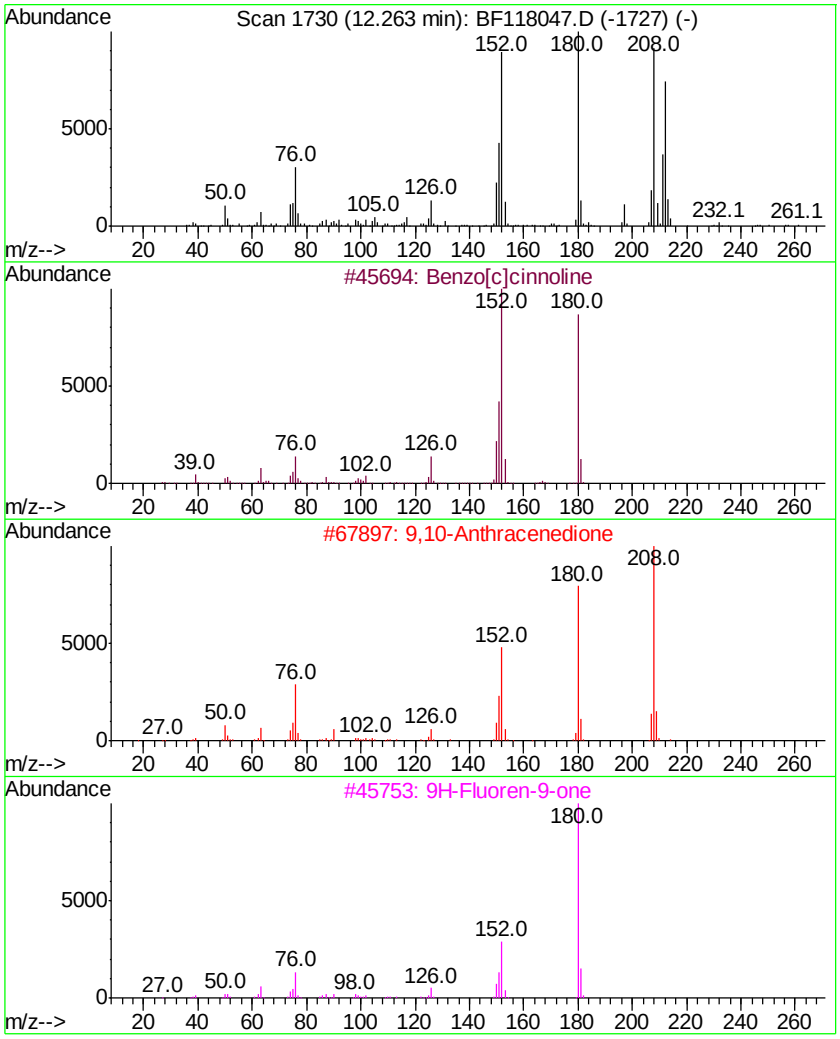
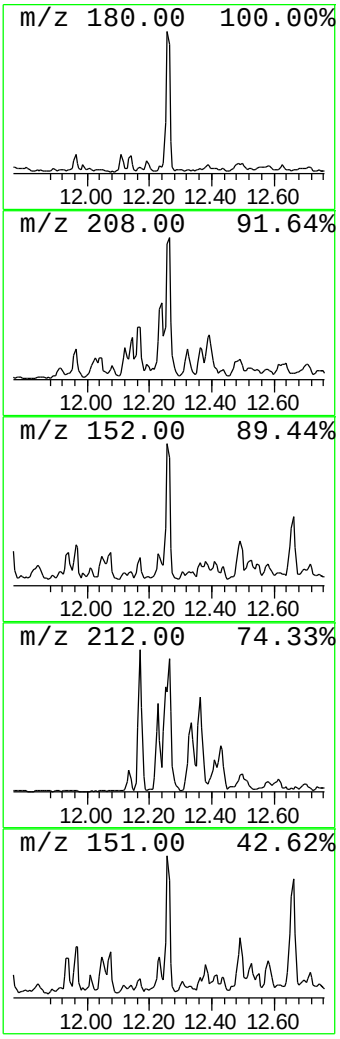
Peak Number 11 Benzo[c]cinnoline Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	17.82 ng	894098	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	89
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	86
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	50
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	46





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Sample : K5959-07 2X
Misc :
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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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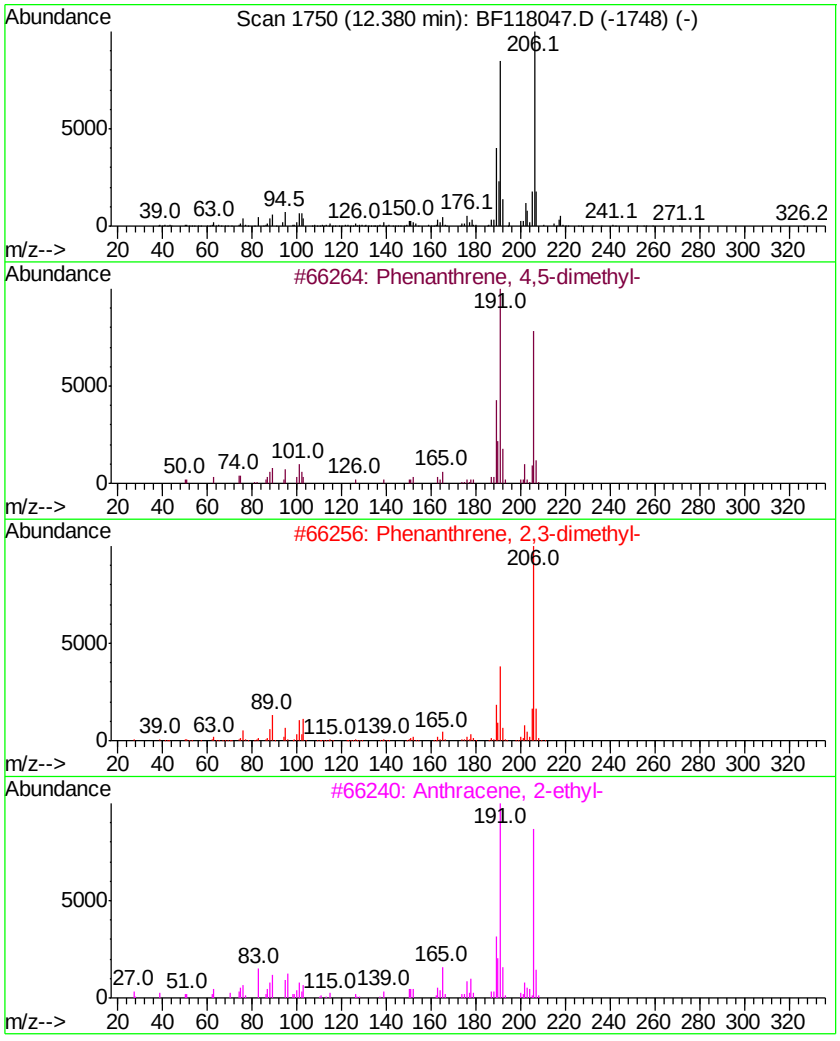
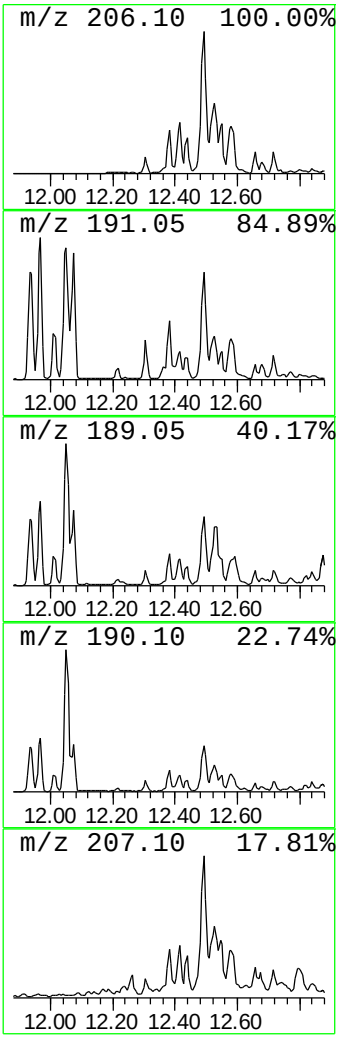
Peak Number 12 Phenanthrene, 4,5-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	16.40 ng	822804	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	90
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	68
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	68





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Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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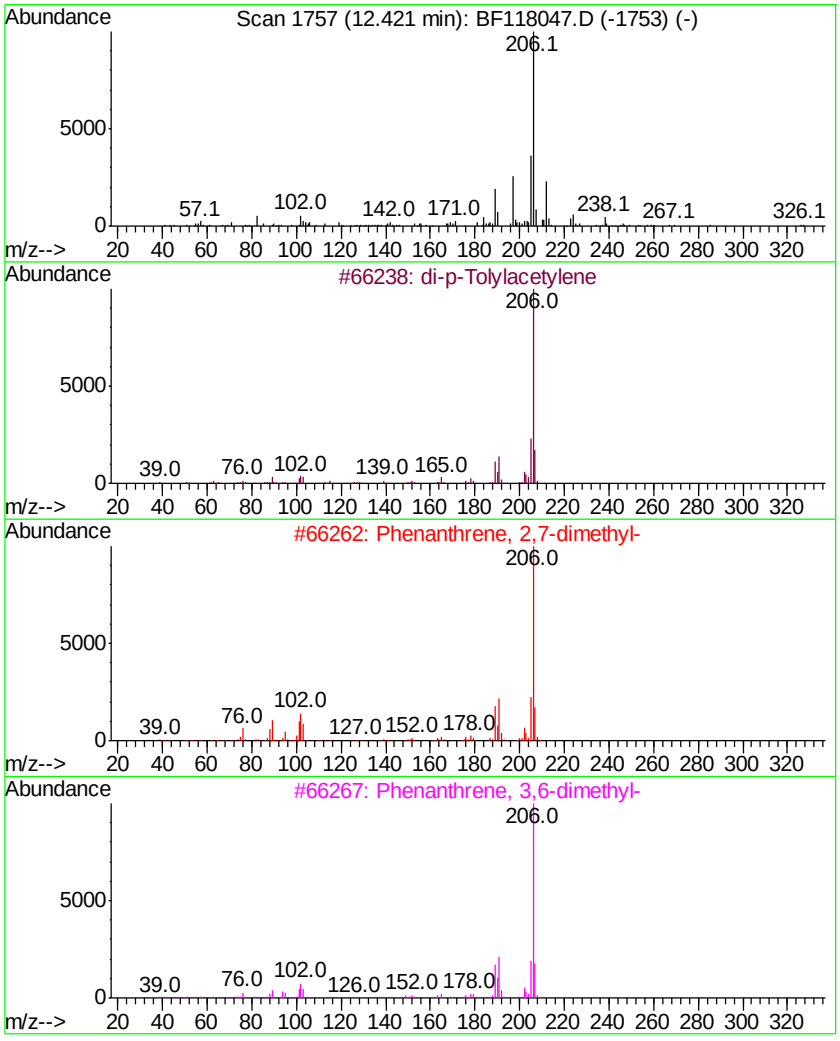
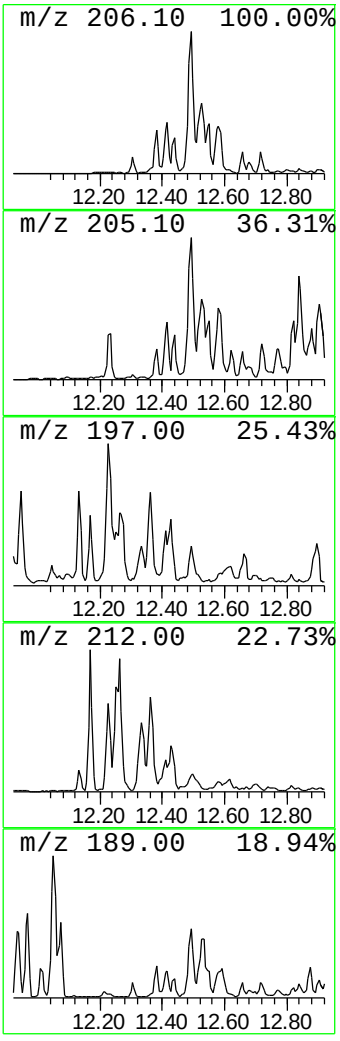
Peak Number 13 di-p-Tolylacetylene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	14.59 ng	732037	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	80
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	76
4	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	64
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	59





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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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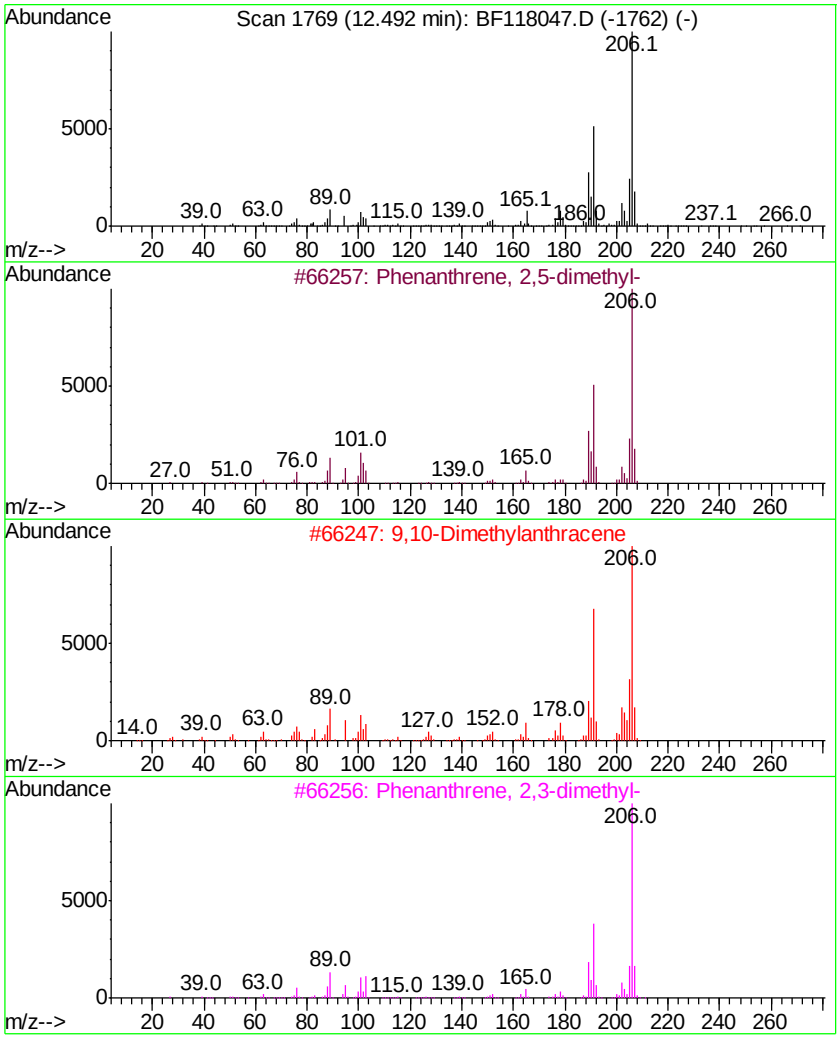
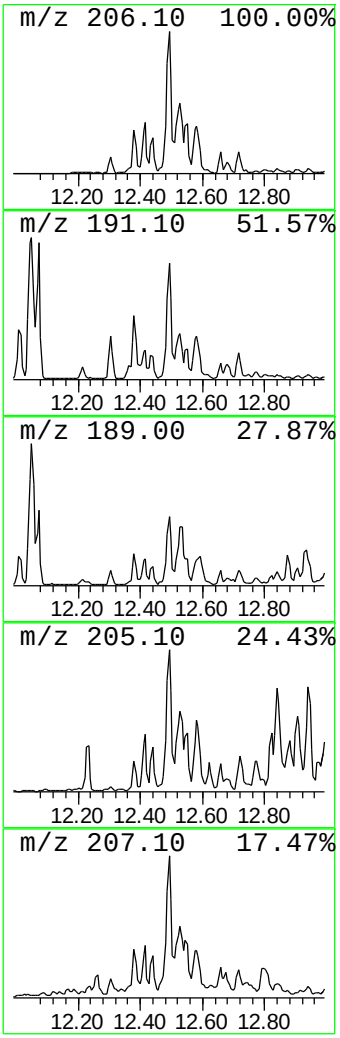
Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	60.97 ng	3059530	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90





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Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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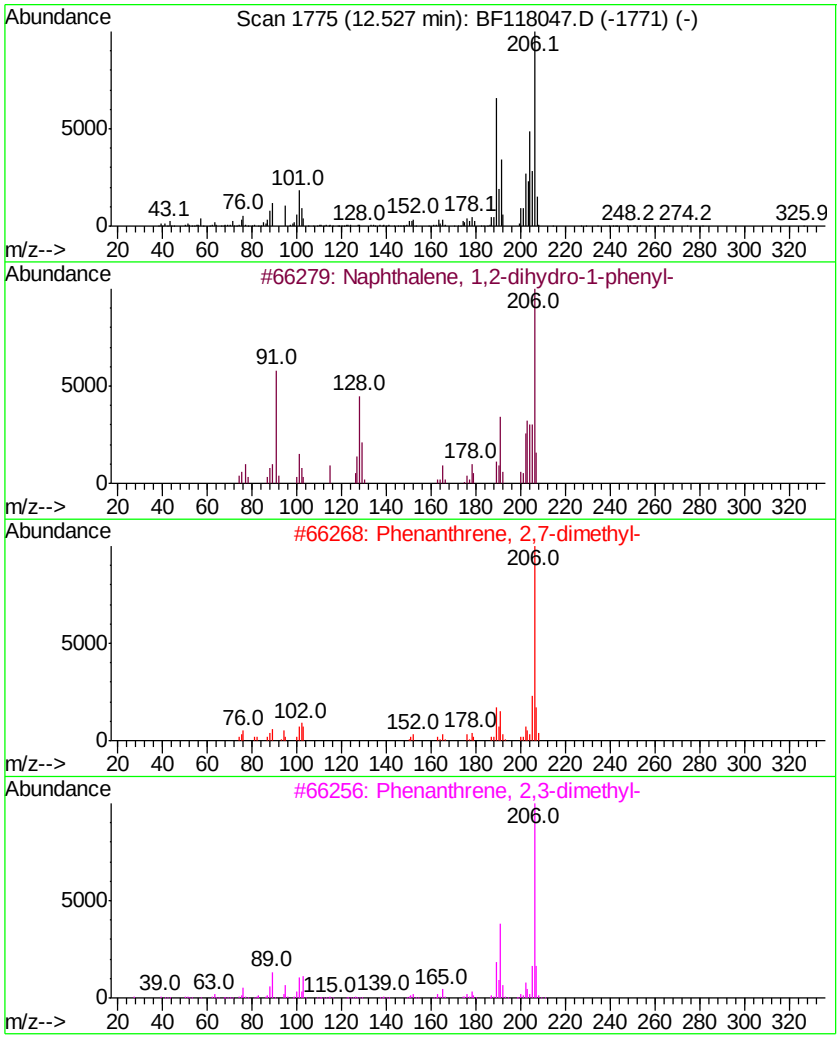
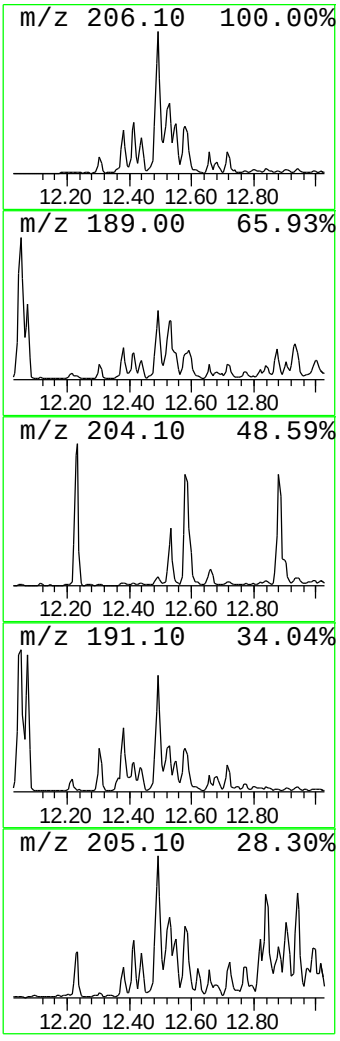
Peak Number 15 unknown12.53 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	39.93 ng	2003610	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	45
2	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	43
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	43
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	43
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	43





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ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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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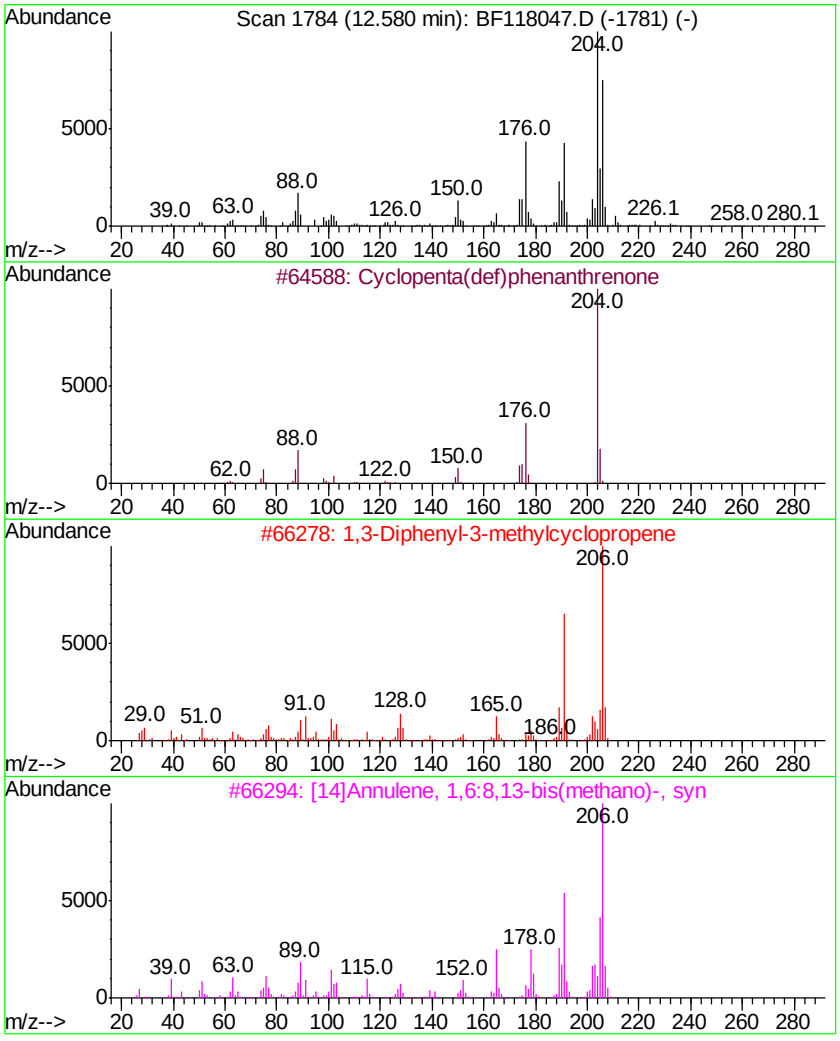
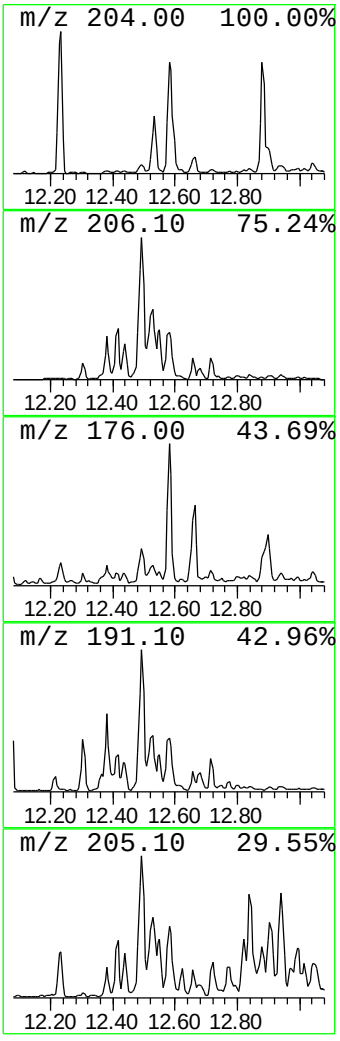
Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	37.52 ng	1882680	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	89
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	55
4	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	50
5	1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	50





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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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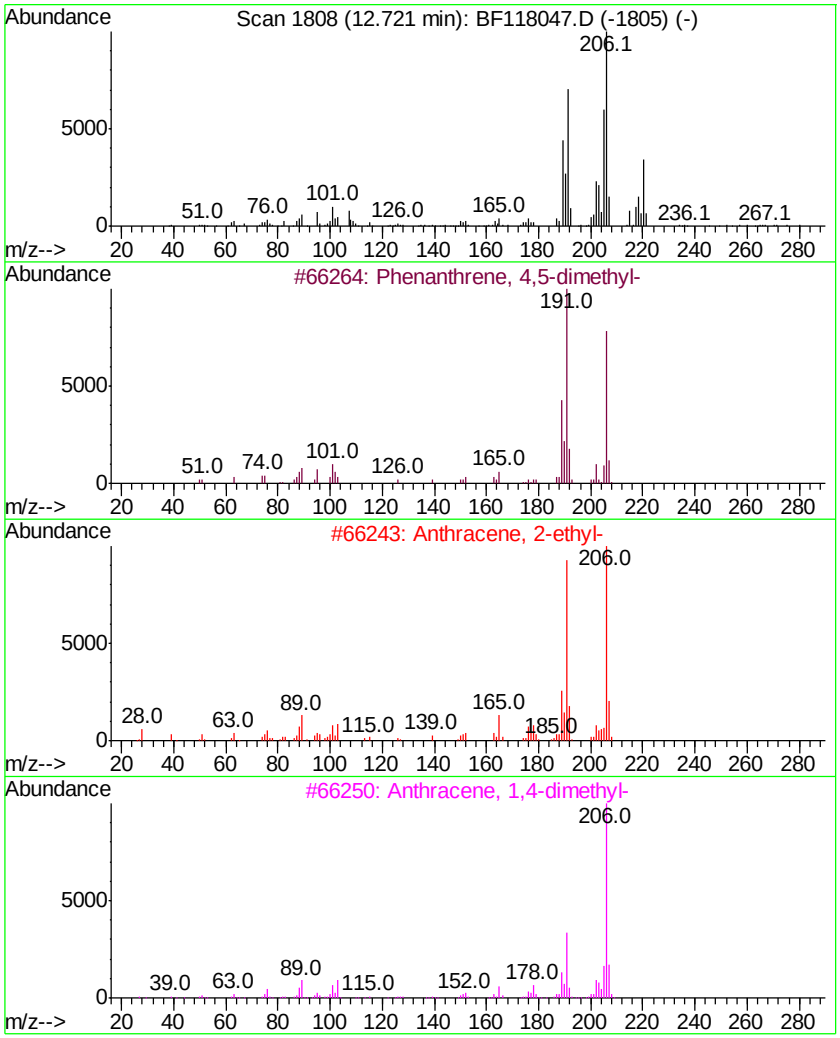
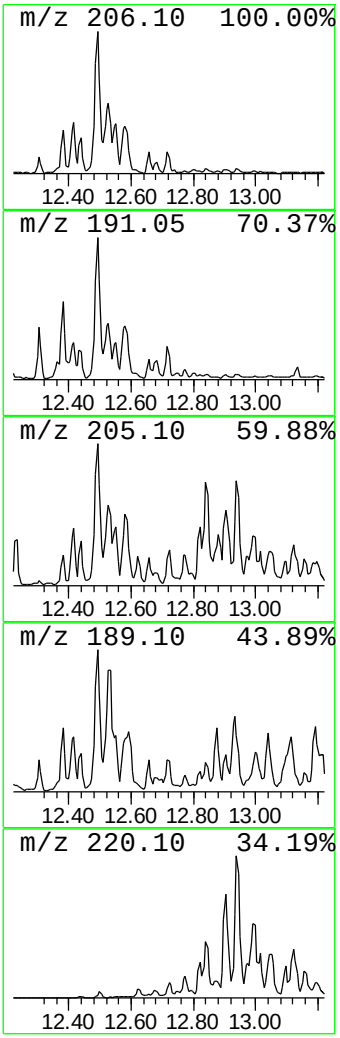
Peak Number 17 Anthracene, 1,4-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.72	11.23 ng	563708	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	87
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

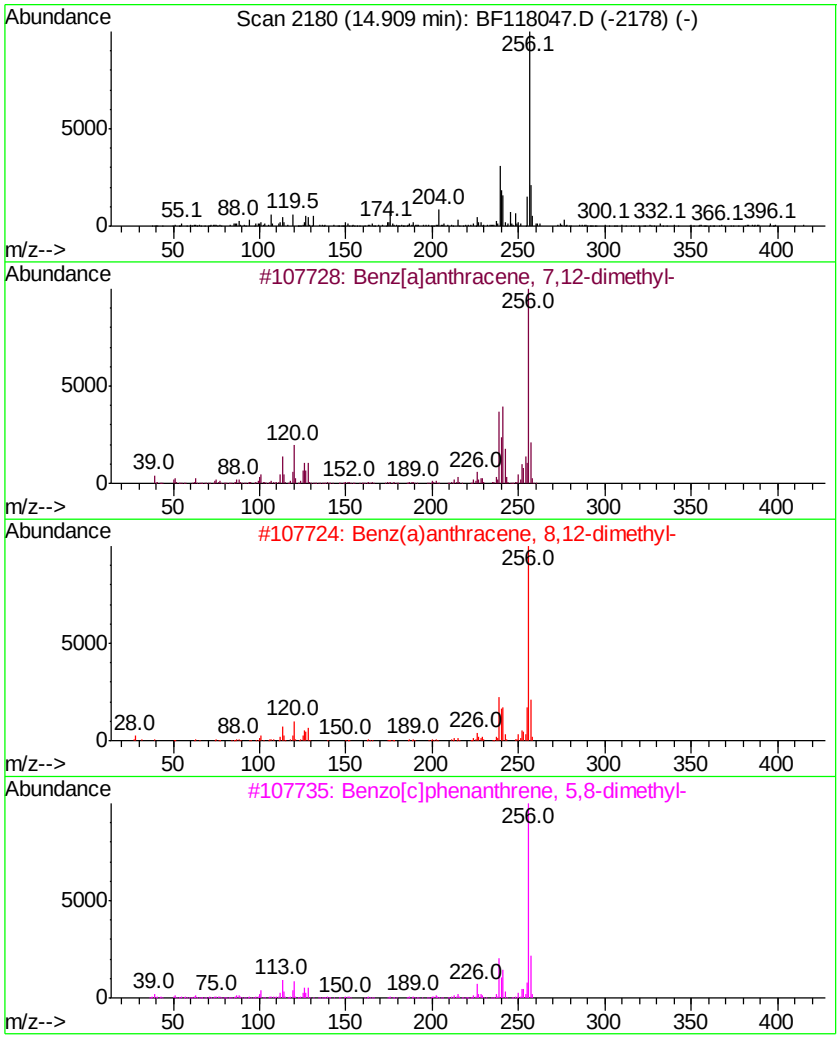
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF111319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

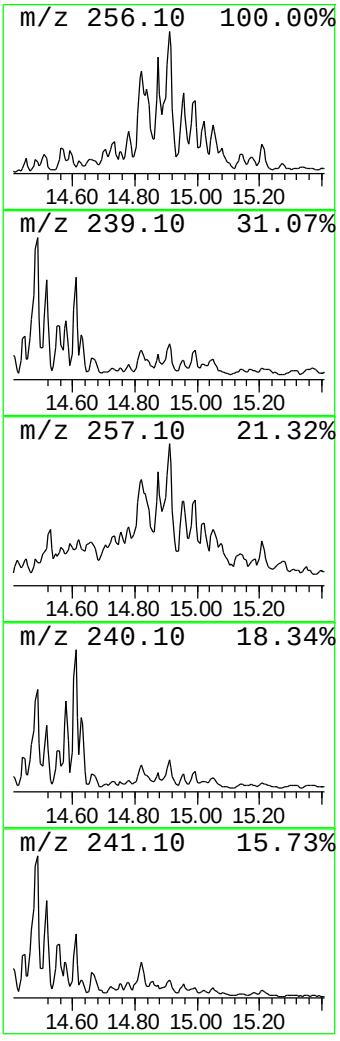
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 18 Benz[a]anthracene, 7,12-dim... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.91	10.90 ng	521968	Perylene-d12	15.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	87
2	Benz(a)anthracene, 8,12-dimethyl-	256	C20H16	020627-31-0	86
3	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	86
4	3,9-Dimethylbenz[a]anthracene	256	C20H16	000316-51-8	78
5	Benz[a]anthracene, 1,12-dimethyl-	256	C20H16	000313-74-6	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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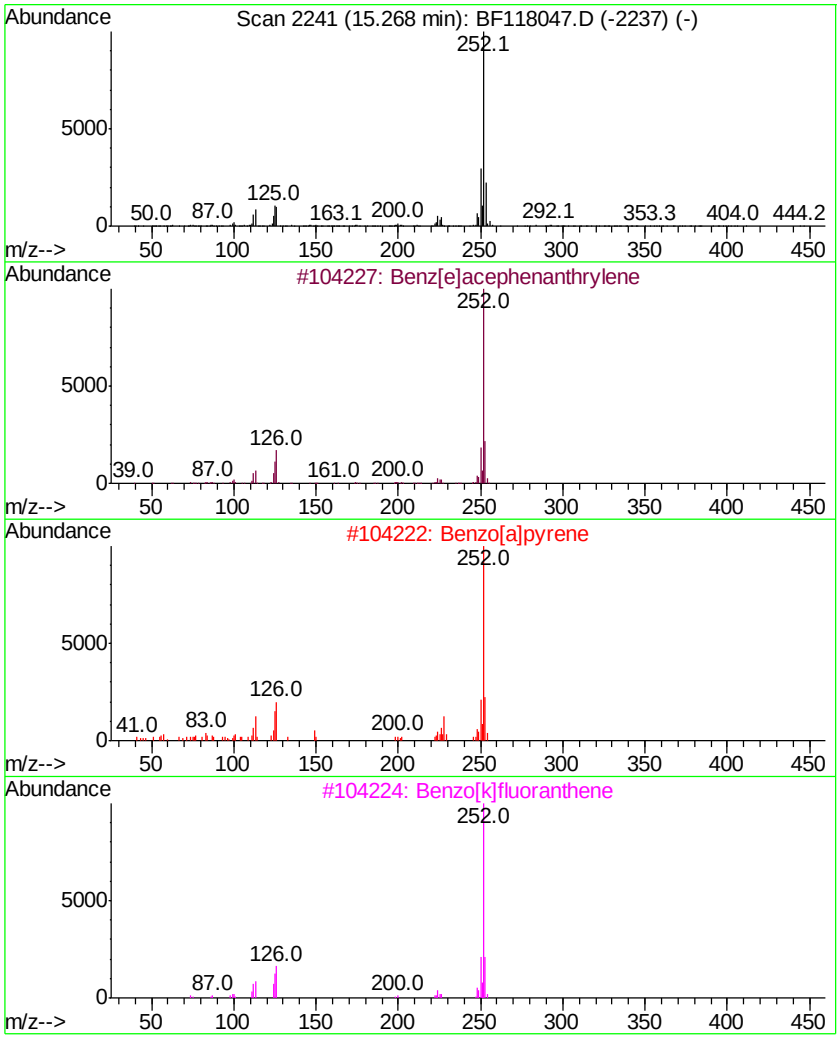
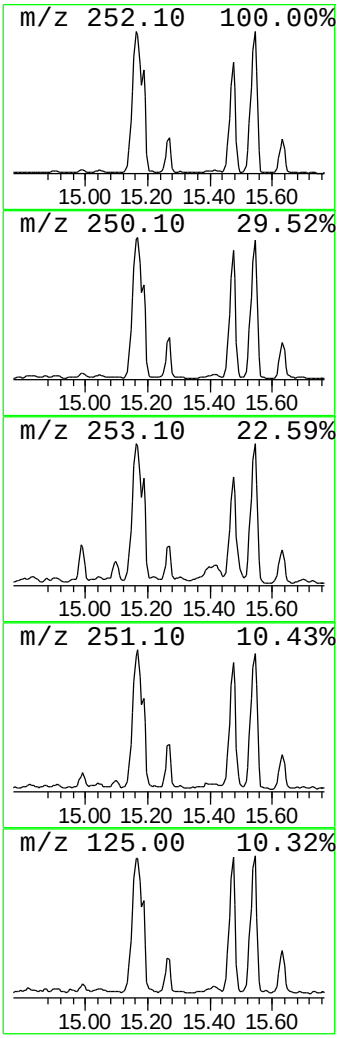
Peak Number 19 Perylene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	12.88 ng	616799	Perylene-d12	15.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
2	Benzo[a]pyrene	252	C20H12	000050-32-8	90
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81
5	Perylene	252	C20H12	000198-55-0	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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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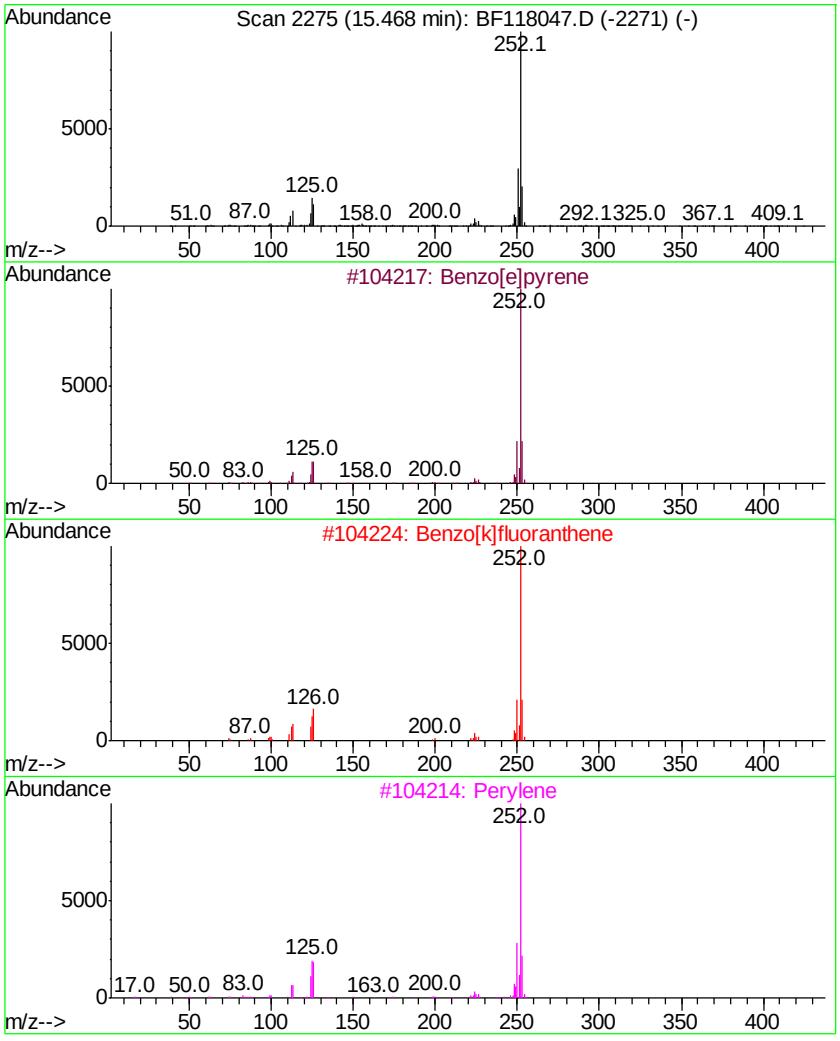
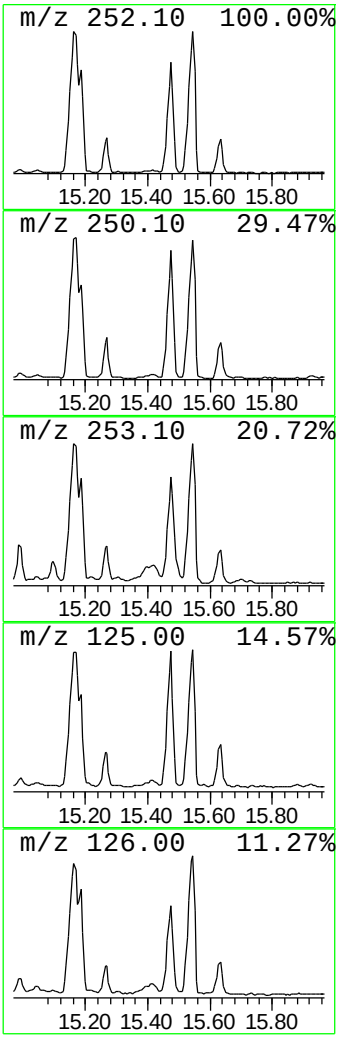
Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.47	52.62 ng	2520530	Perylene-d12	15.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Perylene	252	C20H12	000198-55-0	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF112719\
Data File : BF118047.D
Acq On : 27 Nov 2019 18:10
Operator : JU
Sample : K5959-07 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WS-112019-2-5-COMP-B4

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
unknown6.65	6.65	40.3	ng	1612210	1	6.88	800966	20.0
1-Methyldibenzoth...	11.76	14.1	ng	705569	4	11.43	1003650	20.0
Phenanthrene, 2-m...	11.93	43.9	ng	2201520	4	11.43	1003650	20.0
Phenanthrene, 1-m...	11.97	47.9	ng	2401720	4	11.43	1003650	20.0
Anthracene, 1-met...	12.01	17.8	ng	891382	4	11.43	1003650	20.0
Anthracene, 9-met...	12.05	68.1	ng	3415390	4	11.43	1003650	20.0
Propyne, 1,3-diph...	12.07	32.0	ng	1607560	4	11.43	1003650	20.0
Tetradecane, 2,6,...	12.13	10.6	ng	530232	4	11.43	1003650	20.0
1,2,4,8-Tetrameth...	12.23	31.8	ng	1593130	4	11.43	1003650	20.0
Benzo[c]cinnoline	12.26	17.8	ng	894098	4	11.43	1003650	20.0
Phenanthrene, 4,5...	12.38	16.4	ng	822804	4	11.43	1003650	20.0
di-p-Tolylacetylene	12.42	14.6	ng	732037	4	11.43	1003650	20.0
Phenanthrene, 2,5...	12.49	61.0	ng	3059530	4	11.43	1003650	20.0
unknown12.53	12.53	39.9	ng	2003610	4	11.43	1003650	20.0
Cyclopenta(def)ph...	12.58	37.5	ng	1882680	4	11.43	1003650	20.0
Anthracene, 1,4-d...	12.72	11.2	ng	563708	4	11.43	1003650	20.0
Benz[a]anthracene...	14.91	10.9	ng	521968	6	15.60	957927	20.0
Perylene	15.27	12.9	ng	616799	6	15.60	957927	20.0
Benzo[e]pyrene	15.47	52.6	ng	2520530	6	15.60	957927	20.0