LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

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-BF022719.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	5.339	550	553	570	rBV	432646	481291	19.36%	1.569%
2	6.369	725	728	746	rBV	488939	548990	22.08%	1.790%
3	6.498	746	750	758	rBV	632313	548259	22.05%	1.788%
4	6.728	785	789	795	rBV	1011612	839000	33.75%	2.736%
5	6.880	812	815	824	rBV	468938	443007	17.82%	1.445%
6	7.286	880	884	897	rBV	289317	329164	13.24%	1.073%
7	8.010	1003	1007	1014	rBV	1067151	1026806	41.30%	3.348%
8	9.080	1186	1189	1203	rBV	571377	632374	25.44%	2.062%
9	9.422	1244	1247	1249	rBV	28617	25933	1.04%	0.085%
10	9.474	1253	1256	1262	rVB	39863	44847	1.80%	0.146%
11	9.621	1277	1281	1285	rBV	34999	36726	1.48%	0.120%
12	9.757	1300	1304	1308	rBV	1237026	1258851	50.63%	4.105%
13	9.786	1308	1309	1315	rVB	109898	100214	4.03%	0.327%
14	9.963	1335	1339	1344	rBV	56240	69228	2.78%	0.226%
15	10.169	1370	1374	1376	rBV	21602	24895	1.00%	0.081%
16	10.304	1394	1397	1402	rVB	93096	91818	3.69%	0.299%
17	10.368	1402	1408	1410	rBV3	30798	42753	1.72%	0.139%
18	10.463	1421	1424	1429	rVB2	32775	45566	1.83%	0.149%
19	10.545	1434	1438	1443	rBV	299644	294016	11.83%	0.959%
20	10.668	1457	1459	1466	rVB2	34362	35068	1.41%	0.114%
21	10.851	1483	1490	1492	rBV4	37345	56946	2.29%	0.186%
22	10.880	1492	1495	1498	rVV2	35154	40669	1.64%	0.133%
23	10.933	1501	1504	1507	rVB4	27795	28384	1.14%	0.093%
24	10.998	1513	1515	1520	rVB2	27558	25798	1.04%	0.084%
25	11.045	1520	1523	1526	rVB2	37860	37325	1.50%	0.122%
26	11.098	1526	1532	1536	rBV3	49921	76886	3.09%	0.251%
27	11.133	1536	1538	1545	rVB	65692	74200	2.98%	0.242%
28	11.239	1552	1556	1558	rBV	1059841	1033407	41.57%	3.370%
29	11.263	1558	1560	1563	rVV	1173593	927580	37.31%	3.025%
30	11.310	1565	1568	1572	rVB	262673	244707	9.84%	0.798%
31	11.351	1572	1575	1578	rBV2	35610	37353	1.50%	0.122%
32	11.468	1589	1595	1598	rBV	72966	84920	3.42%	0.277%
33	11.533	1603	1606	1609	rBV2	39313	37710	1.52%	0.123%
34	11.568	1609	1612	1615	rVV	51023	44617	1.79%	0.145%

LSC Area Percent Report

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Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

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-BF022719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.651	1621	1626	1629	rVB2	38415	55006	2.21%	0.179%
36	11.739	1637	1641	1643	rVV	312196	270975	10.90%	0.884%
37	11.768	1643	1646	1651	rVV	383191	400609	16.11%	1.306%
38	11.815	1651	1654	1656	rVV	122249	126507	5.09%	0.413%
39	11.851	1656	1660	1662	rVV2	389259	468634	18.85%	1.528%
40	11.868	1662	1663	1669	rVB	218859	186995	7.52%	0.610%
41	11.921	1669	1672	1674	rBV4	25817	29459	1.18%	0.096%
42	11.974	1678	1681	1683	rVB	36405	31714	1.28%	0.103%
43	12.033	1688	1691	1693	rBV	167570	147010	5.91%	0.479%
44	12.057	1693	1695	1701	rVB2	115358	115891	4.66%	0.378%
45	12.110	1701	1704	1708	rBV	48128	52540	2.11%	0.171%
46	12.180	1711	1716	1719	rBV2	135852	157909	6.35%	0.515%
47	12.215	1719	1722	1724	rBV	80465	85127	3.42%	0.278%
48	12.239	1724	1726	1728	rVB	70769	55940	2.25%	0.182%
49	12.286	1728	1734	1737	rBV	287634	320293	12.88%	1.044%
50	12.321	1737	1740	1742	rVV2	123582	140789	5.66%	0.459%
51	12.368	1746	1748	1753	rVB3	145863	191182	7.69%	0.623%
52	12.445	1757	1761	1765	rBV	1887856	1749117	70.35%	5.703%
53	12.492	1767	1769	1770	rBV	52073	35186	1.42%	0.115%
54	12.510	1770	1772	1775	rVB2	63842	58943	2.37%	0.192%
55	12.574	1779	1783	1785	rBV4	53484	85942	3.46%	0.280%
56	12.674	1794	1800	1803	rBV	2042532	2111097	84.91%	6.884%
57	12.733	1806	1810	1814	rVB2	98278	151391	6.09%	0.494%
58	12.792	1817	1820	1821	rBV2	112801	93896	3.78%	0.306%
59	12.815	1821	1824	1831	rVB	633060	646912	26.02%	2.109%
60	12.892	1832	1837	1840	rBV2	218033	311363	12.52%	1.015%
61	12.951	1844	1847	1848	rBV2	57750	52850	2.13%	0.172%
62	12.980	1848	1852	1853	rBV2	148109	166398	6.69%	0.543%
63	12.998	1853	1855	1858	rVB	329048	311850	12.54%	1.017%
64	13.033	1858	1861	1862	rBV3	33601	27338	1.10%	0.089%
65	13.068	1863	1867	1869	rBV	204991	200613	8.07%	0.654%
66	13.104	1869	1873	1875	rBV2	348042	324472	13.05%	1.058%
67	13.162	1881	1883	1885	rVB	52632	41141	1.65%	0.134%
68	13.198	1886	1889	1891	rVV	234434	205668	8.27%	0.671%
69	13.227	1891	1894	1898	rVB	235751	208632	8.39%	0.680%
70	13.404	1922	1924	1926	rBV3	50602	50570	2.03%	0.165%
71	13.504	1939	1941	1946	rVB	177750	204736	8.23%	0.668%

LSC Area Percent Report

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Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

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-BF022719.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.568	1950	1952	1955	rVB	49850	39528	1.59%	0.129%
73	13.615	1956	1960	1962	rBV2	221135	271971	10.94%	0.887%
74	13.645	1962	1965	1967	rVV	187906	182781	7.35%	0.596%
75	13.668	1967	1969	1970	rVV	131151	112926	4.54%	0.368%
76	13.709	1974	1976	1981	rVB	151234	161303	6.49%	0.526%
77	13.862	1995	2002	2005	rBV2	1671794	2486216	100.00%	8.107%
78	13.892	2005	2007	2015	rVB	1213768	1116753	44.92%	3.641%
79	13.968	2018	2020	2023	rVB	154951	147002	5.91%	0.479%
80	14.215	2060	2062	2064	rBV	92957	90953	3.66%	0.297%
81	14.251	2065	2068	2071	rVV	362374	378716	15.23%	1.235%
82	14.286	2071	2074	2077	rVB	201447	185033	7.44%	0.603%
83	14.374	2087	2089	2091	rBV	144222	133865	5.38%	0.436%
84	14.398	2091	2093	2096	rVB	141272	112499	4.52%	0.367%
85	14.880	2171	2175	2178	rBV	940671	1406776	56.58%	4.587%
86	14.980	2190	2192	2195	rVB	183352	154741	6.22%	0.505%
87	15.056	2203	2205	2207	rBV2	99033	91158	3.67%	0.297%
88	15.162	2219	2223	2228	rVB	575355	702821	28.27%	2.292%
89	15.221	2229	2233	2238	rVB	774866	963270	38.74%	3.141%
90	15.280	2238	2243	2246	rBV	775246	998751	40.17%	3.257%
91	15.309	2246	2248	2255	rVB3	298075	361553	14.54%	1.179%
92	16.639	2470	2474	2482	rVB2	298949	539746	21.71%	1.760%
93	17.050	2539	2544	2553	rVB	219209	435636	17.52%	1.420%
94	17.115	2553	2555	2561	rVB6	58688	49987	2.01%	0.163%

Sum of corrected areas: 30667988

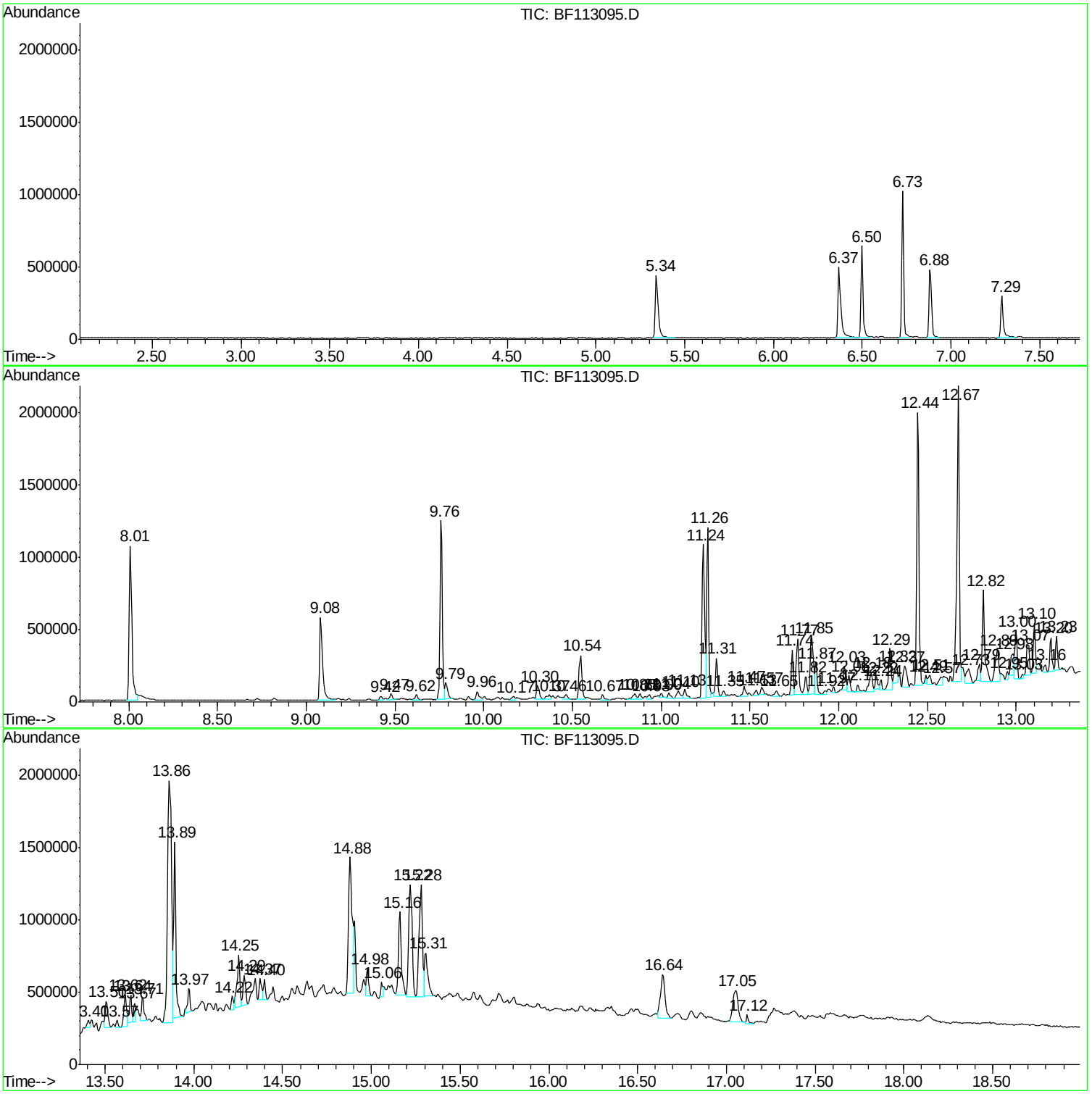
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

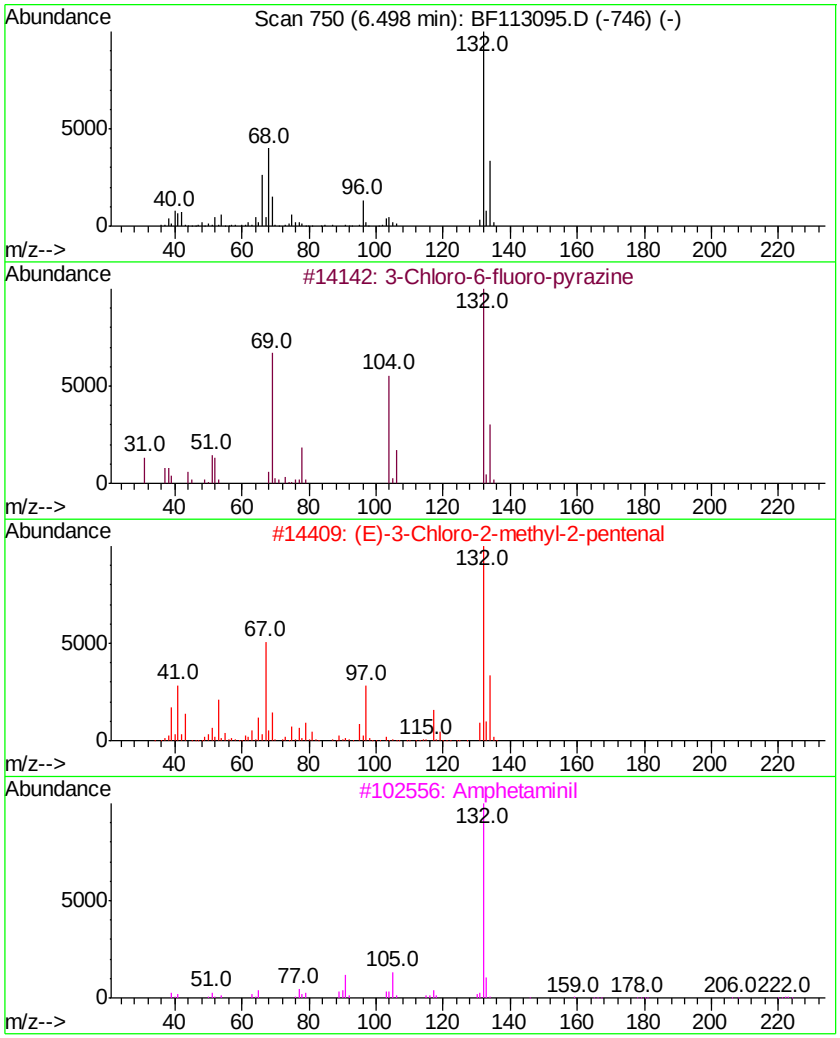
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

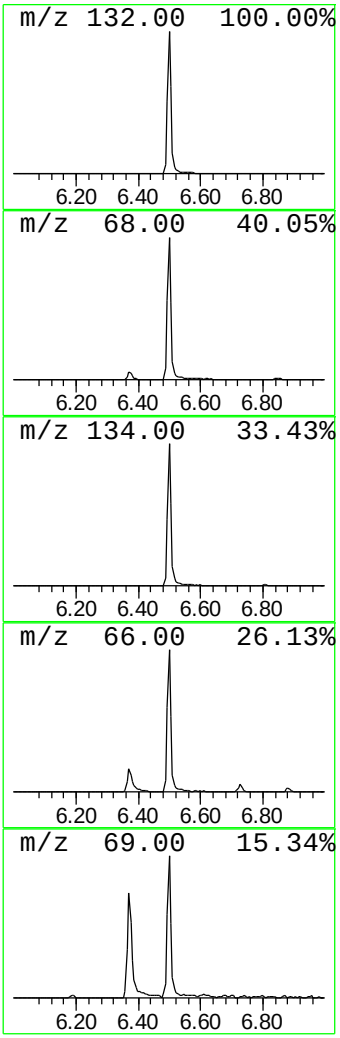
****

Peak Number 1 unknown6.50 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.50	13.07 ng	548259	1,4-Dichlorobenzene-d4	6.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	Amphetaminil	250	C17H18N2	017590-01-1	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

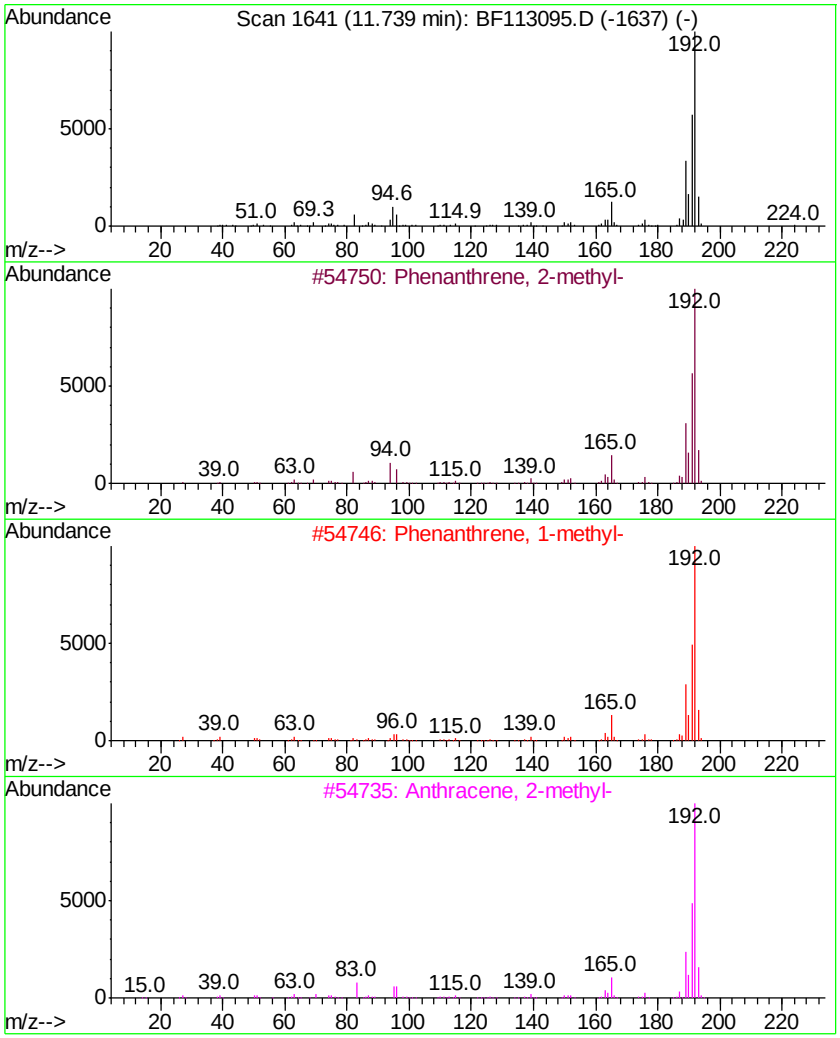
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

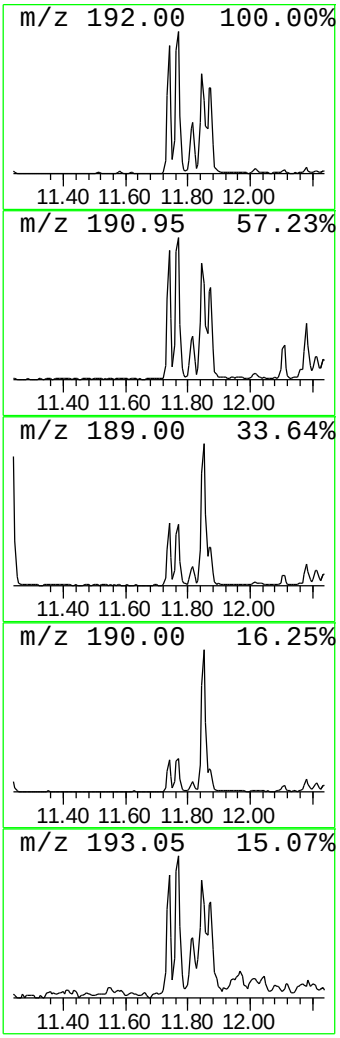
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	5.24 ng	270975	Phenanthrene-d10	11.24

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





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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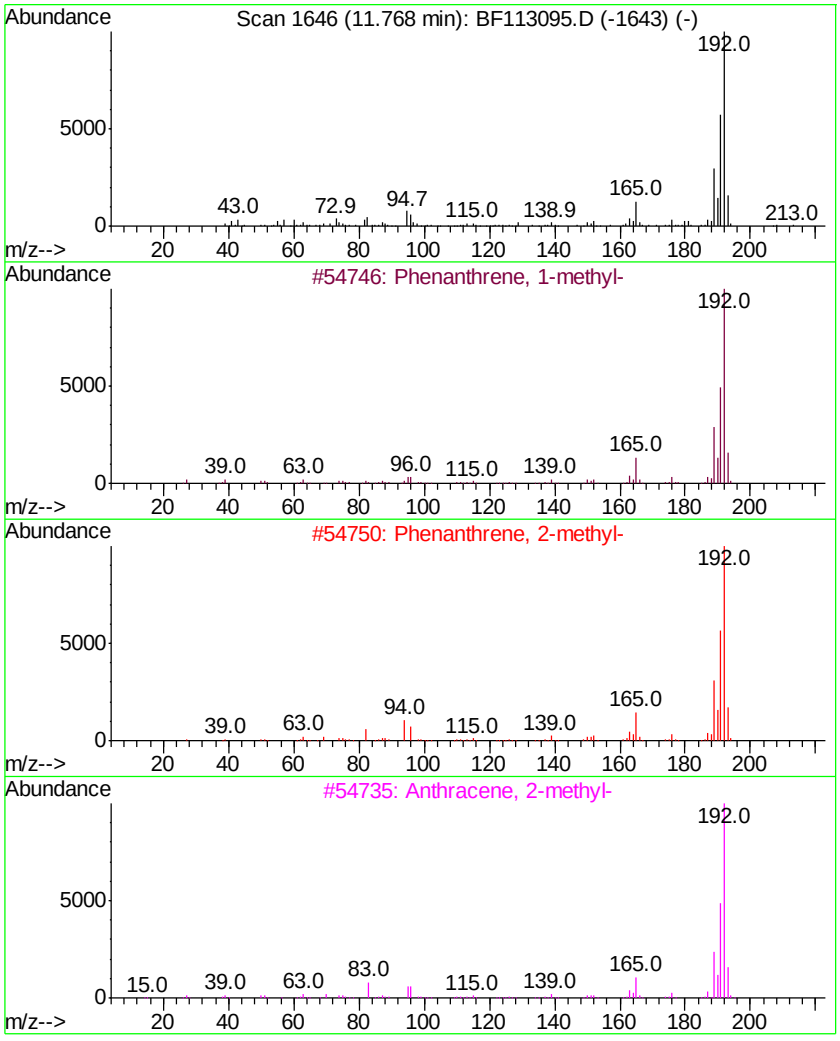
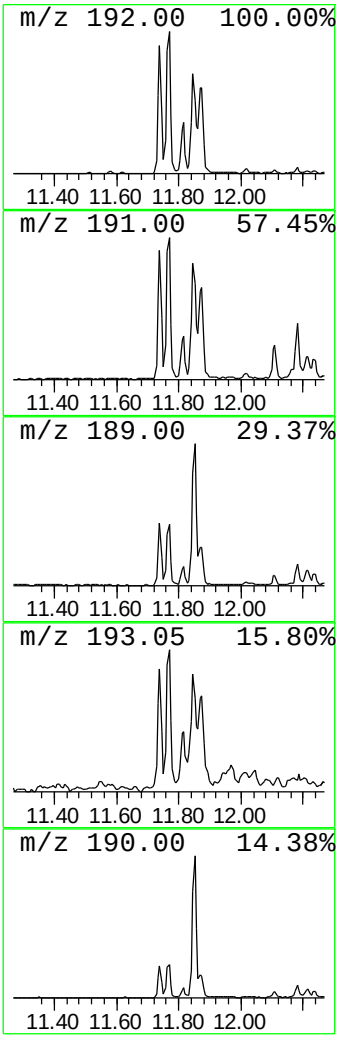
Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	7.75 ng	400609	Phenanthrene-d10	11.24

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	97
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

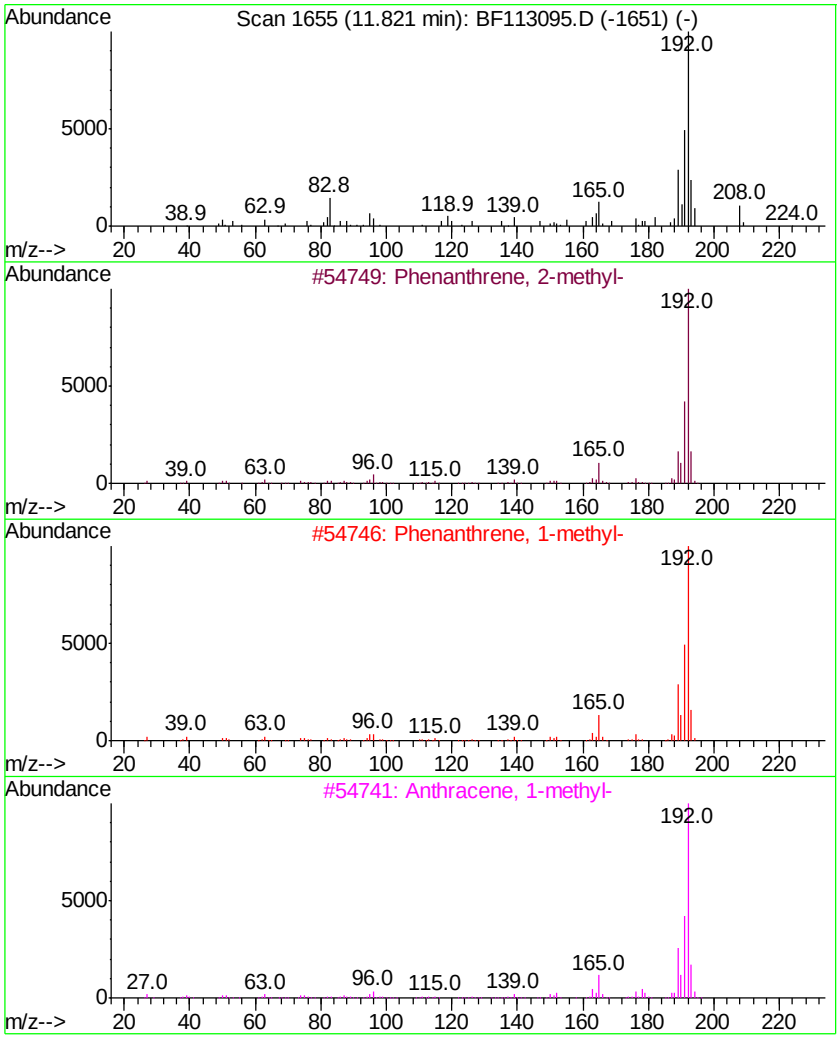
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

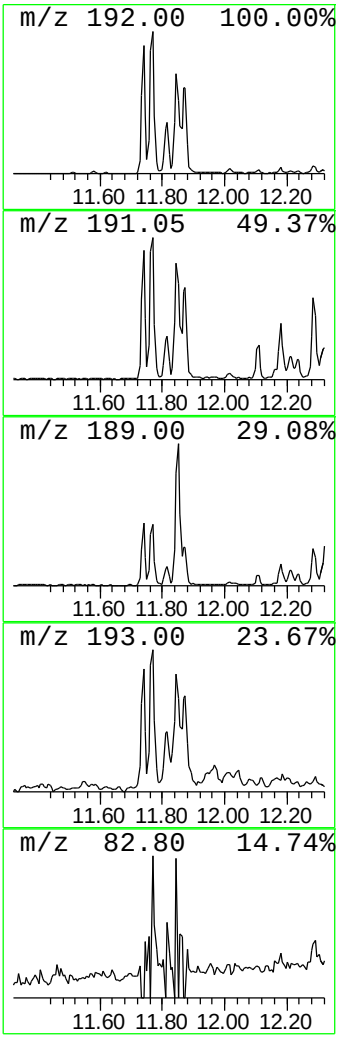
****

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	2.45 ng	126507	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

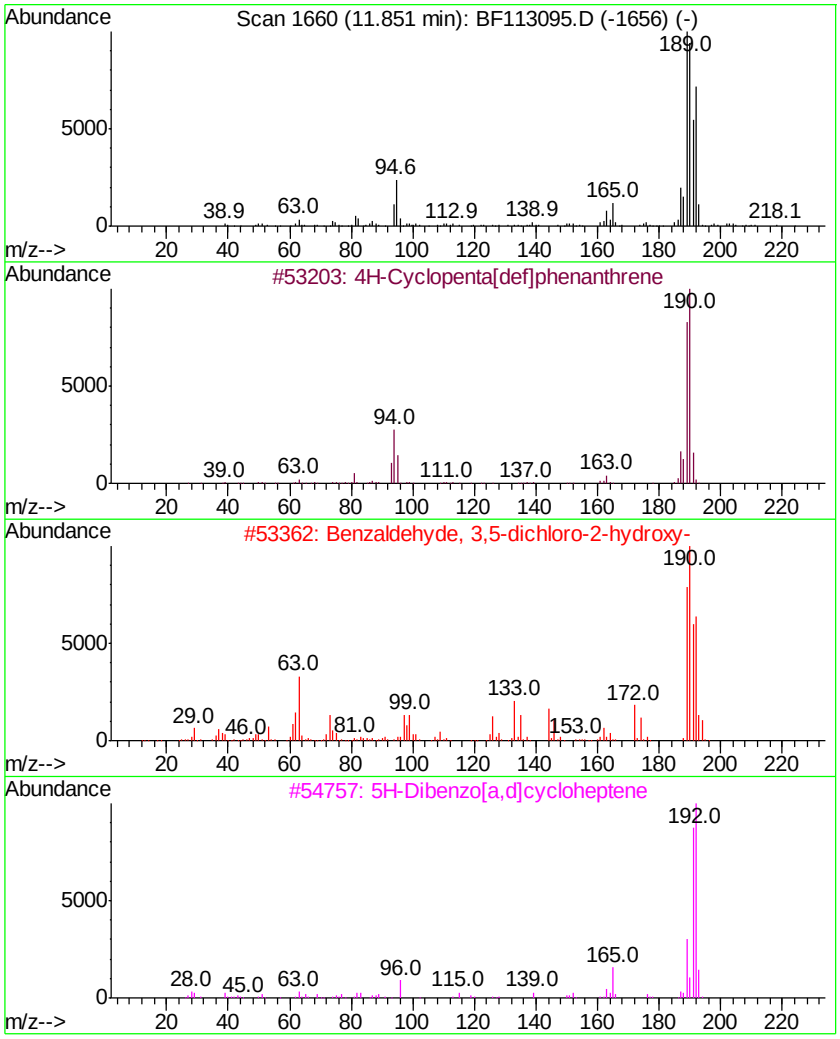
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

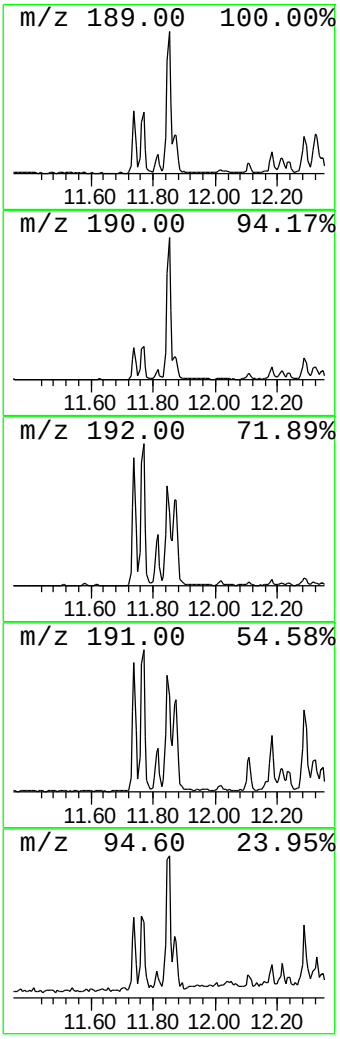
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	9.07 ng	468634	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	52
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	35
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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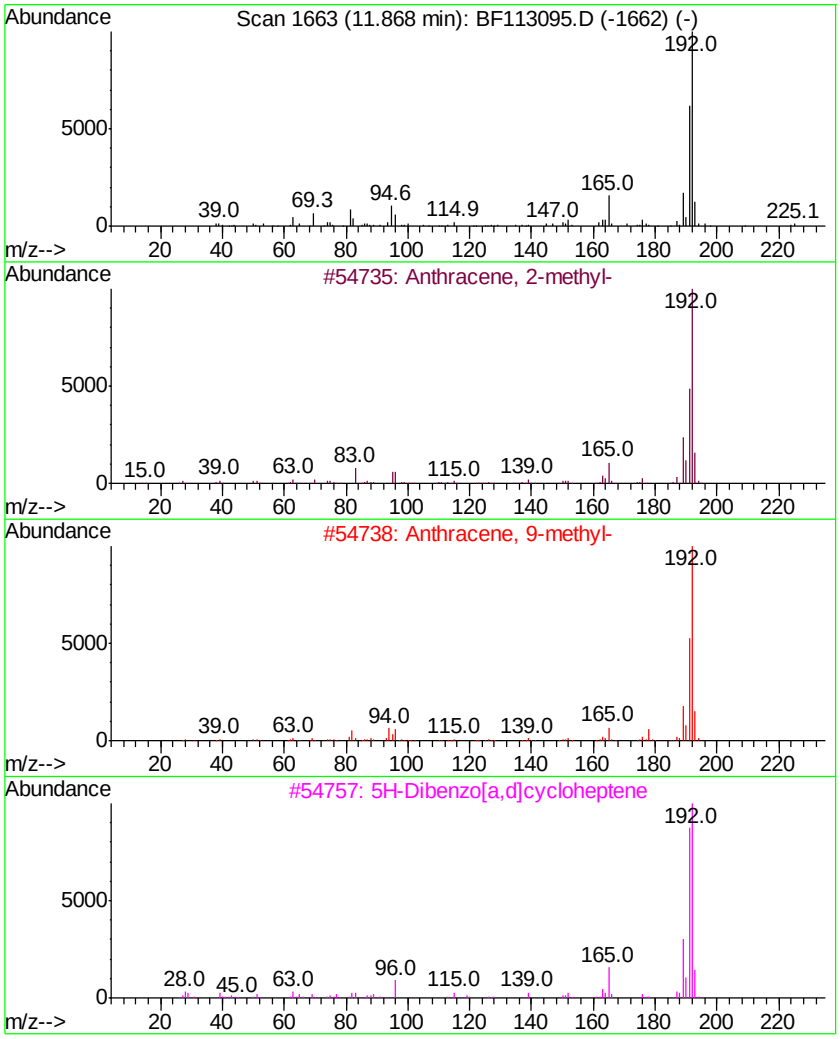
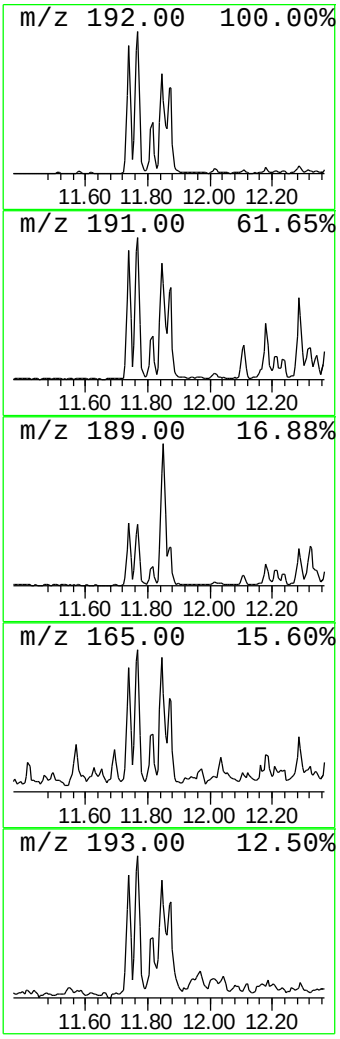
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	3.62 ng	186995	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	81
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	76
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	74





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Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

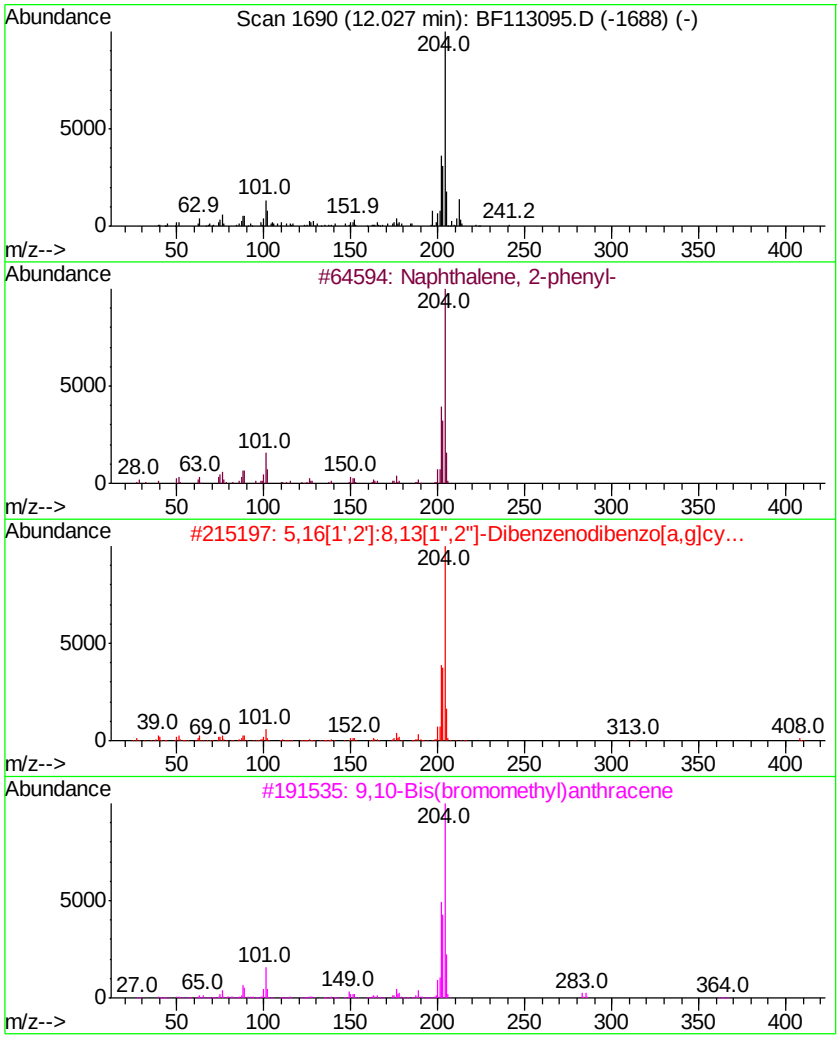
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

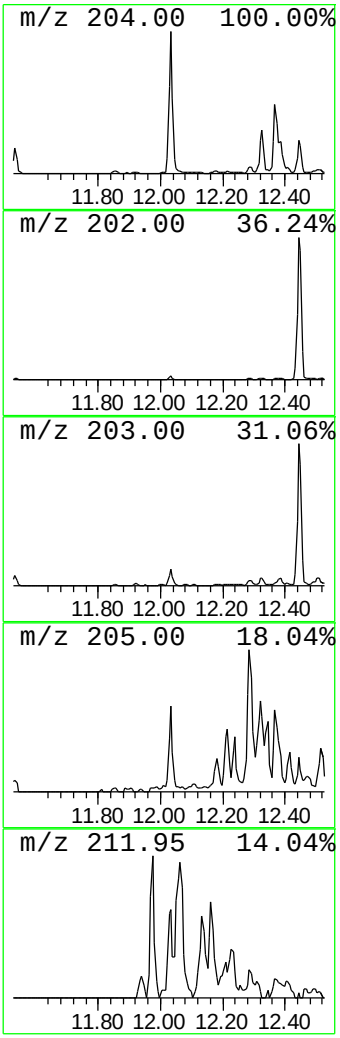
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	2.85 ng	147010	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53





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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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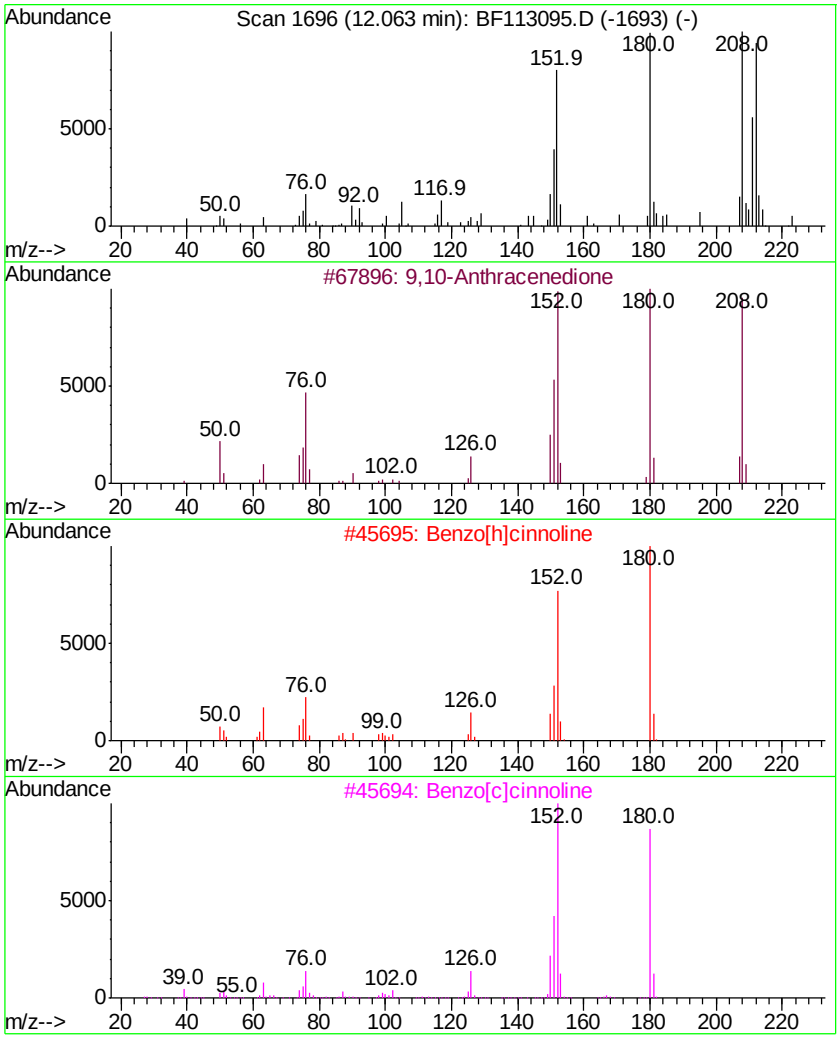
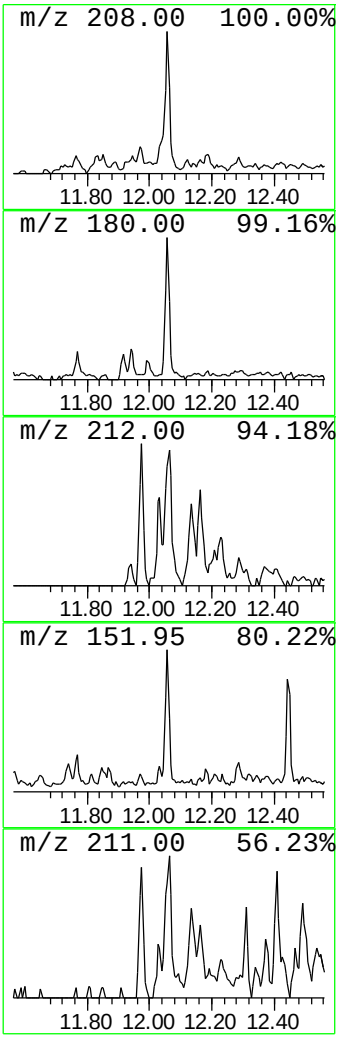
Peak Number 9 9,10-Anthracenedione Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	2.24 ng	115891	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	78
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	60
5	1,4-Anthracenedione	208	C14H8O2	000635-12-1	52





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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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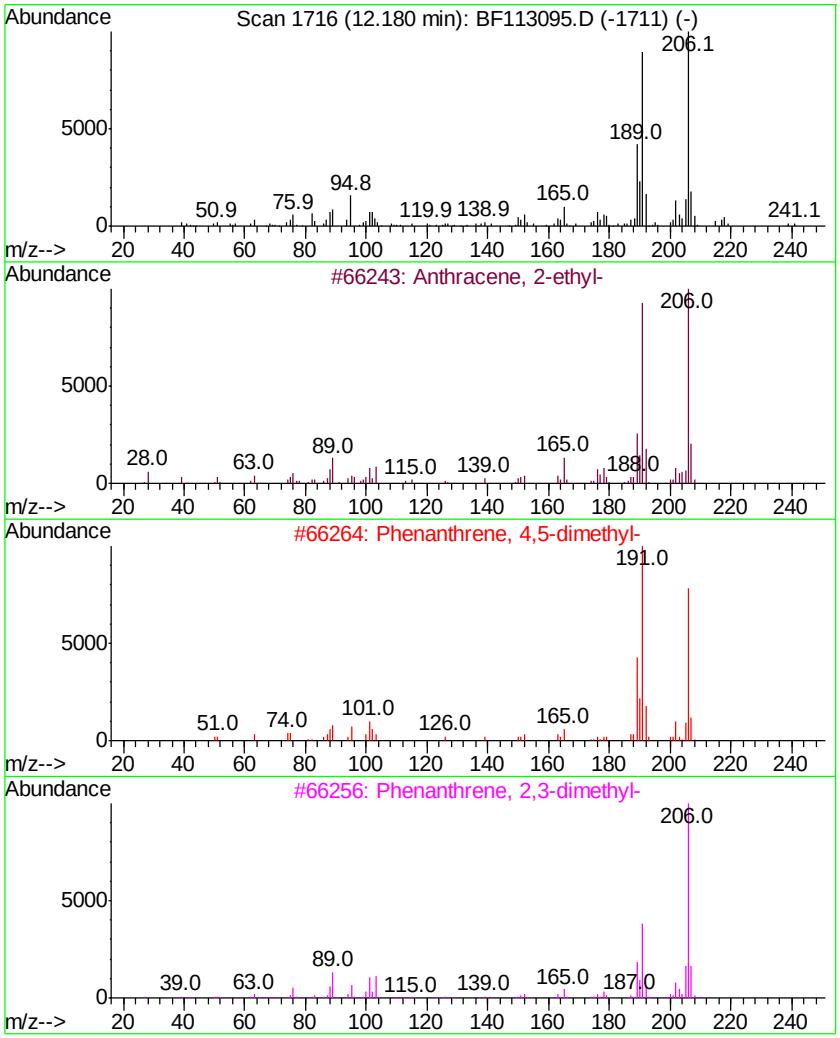
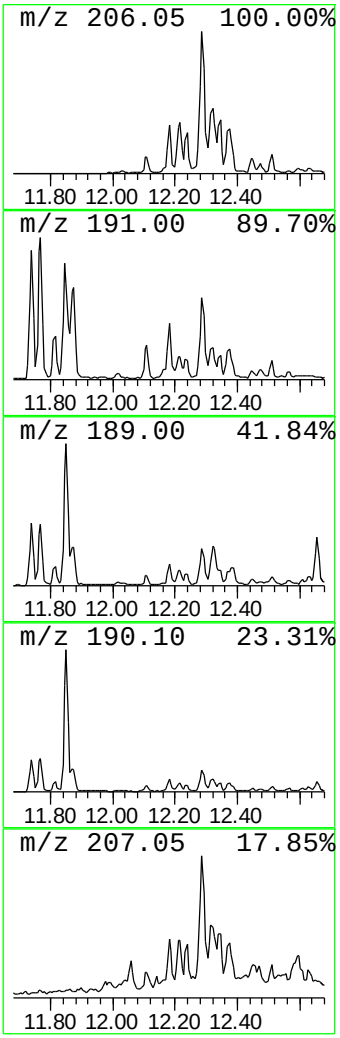
Peak Number 10 Phenanthrene, 4,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	3.06 ng	157909	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	96
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	96
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	83
5	Phenanthrene, 2-ethyl-	206	C16H14	003674-74-6	81





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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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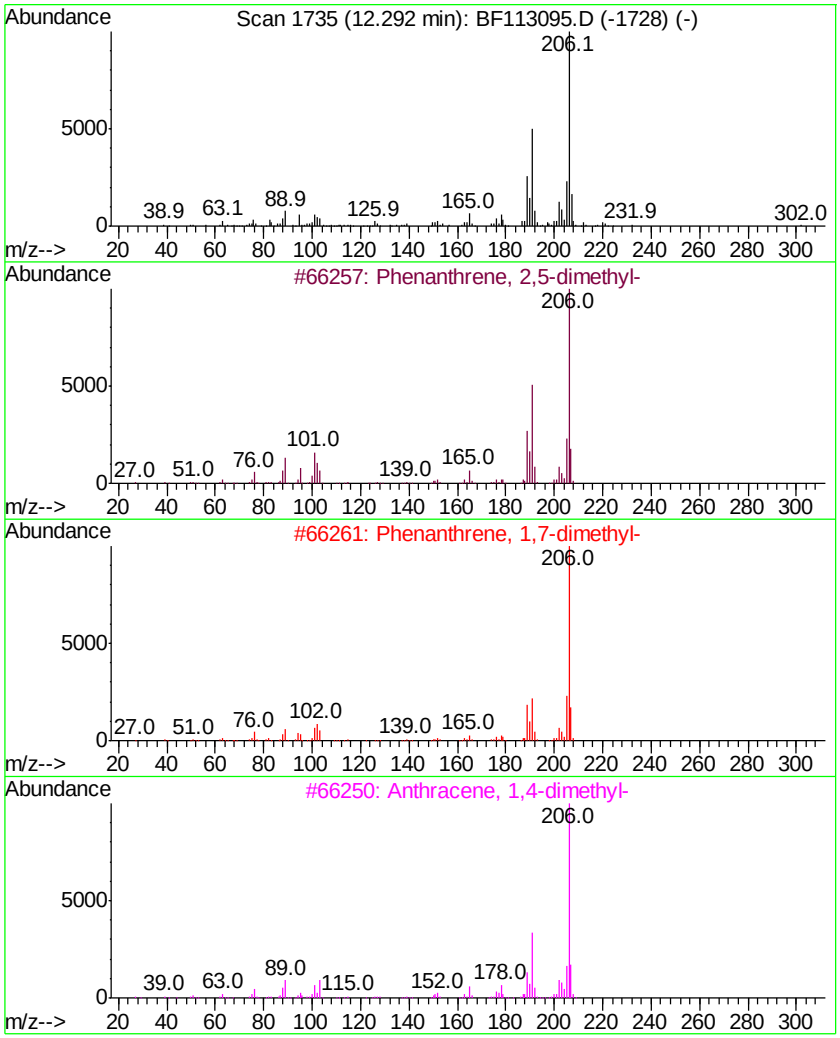
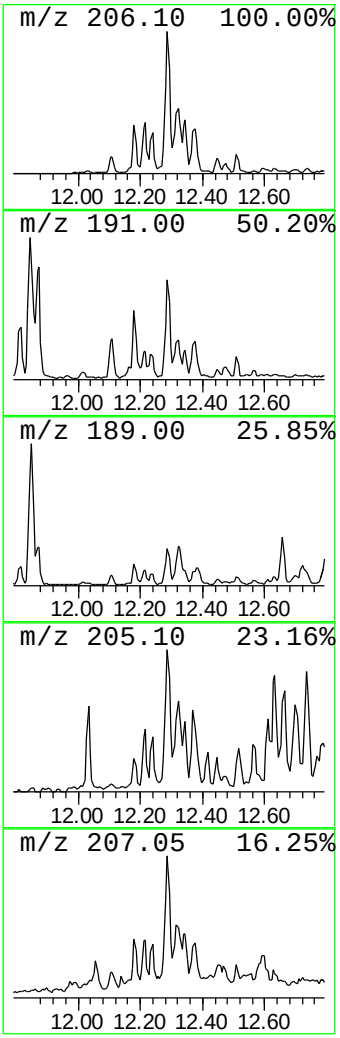
Peak Number 11 Anthracene, 1,4-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	6.20 ng	320293	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90





Library Search Compound Report

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Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

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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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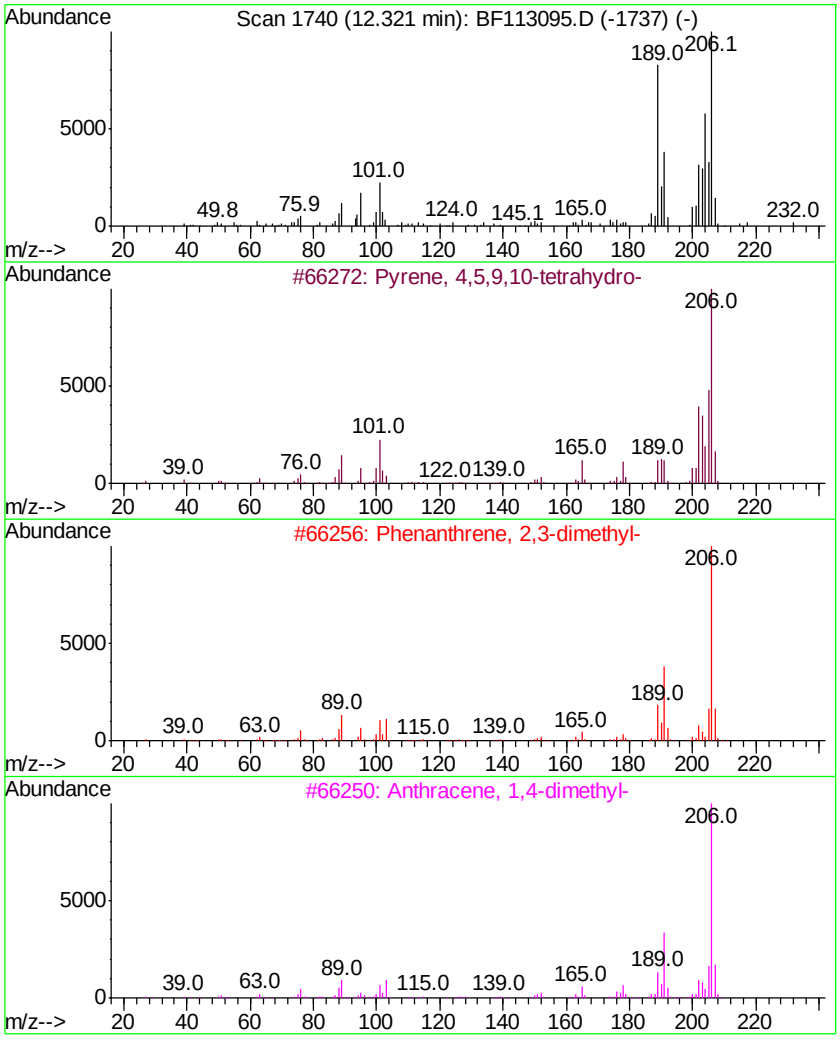
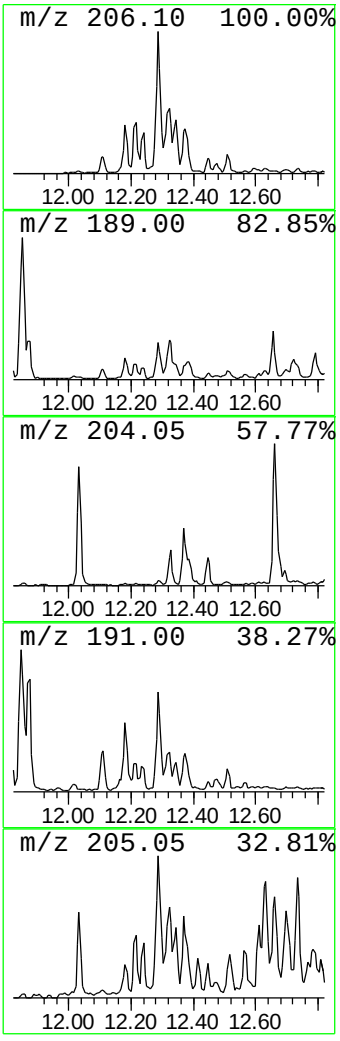
Peak Number 12 Pyrene, 4,5,9,10-tetrahydro- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	2.72 ng	140789	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	55
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	46
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	41
4	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	41
5	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	38





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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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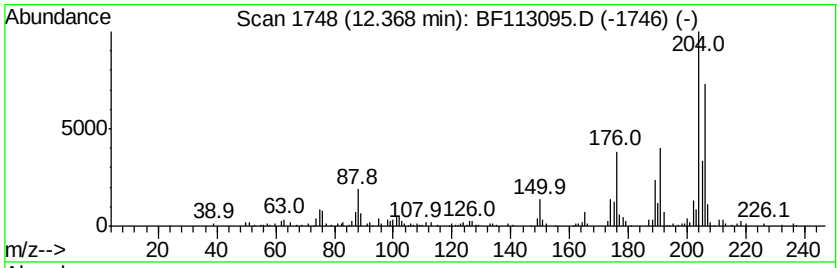
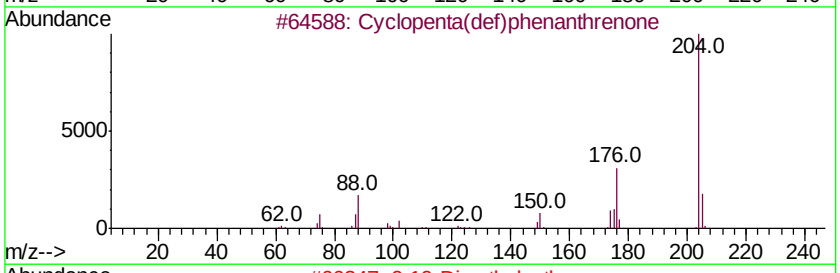
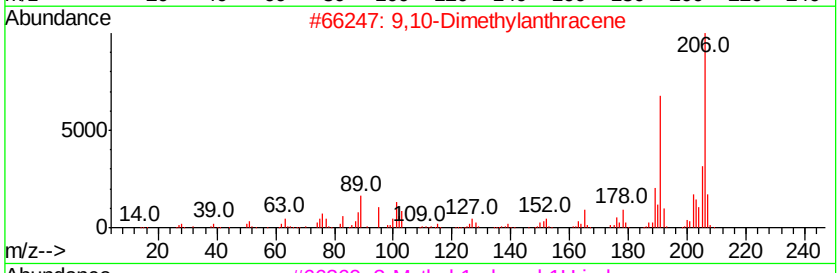
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 8

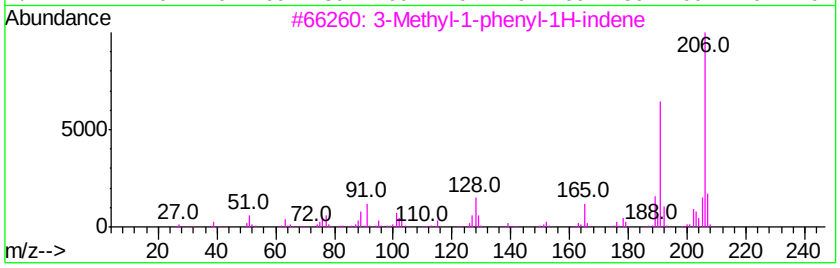
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	3.70 ng	191182	Phenanthrene-d10	11.24

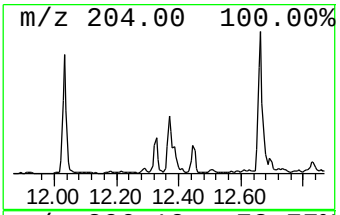
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	64
3	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	60
4	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	46
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	46

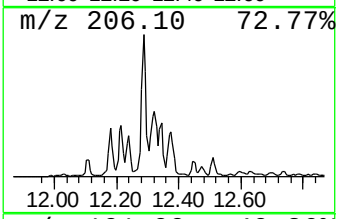


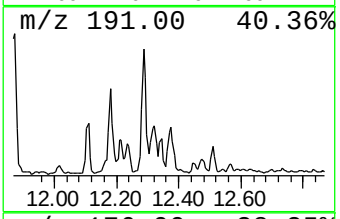


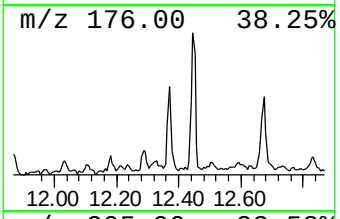


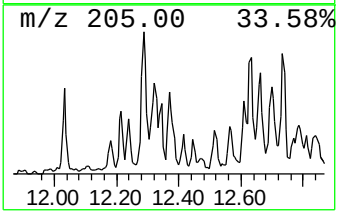












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Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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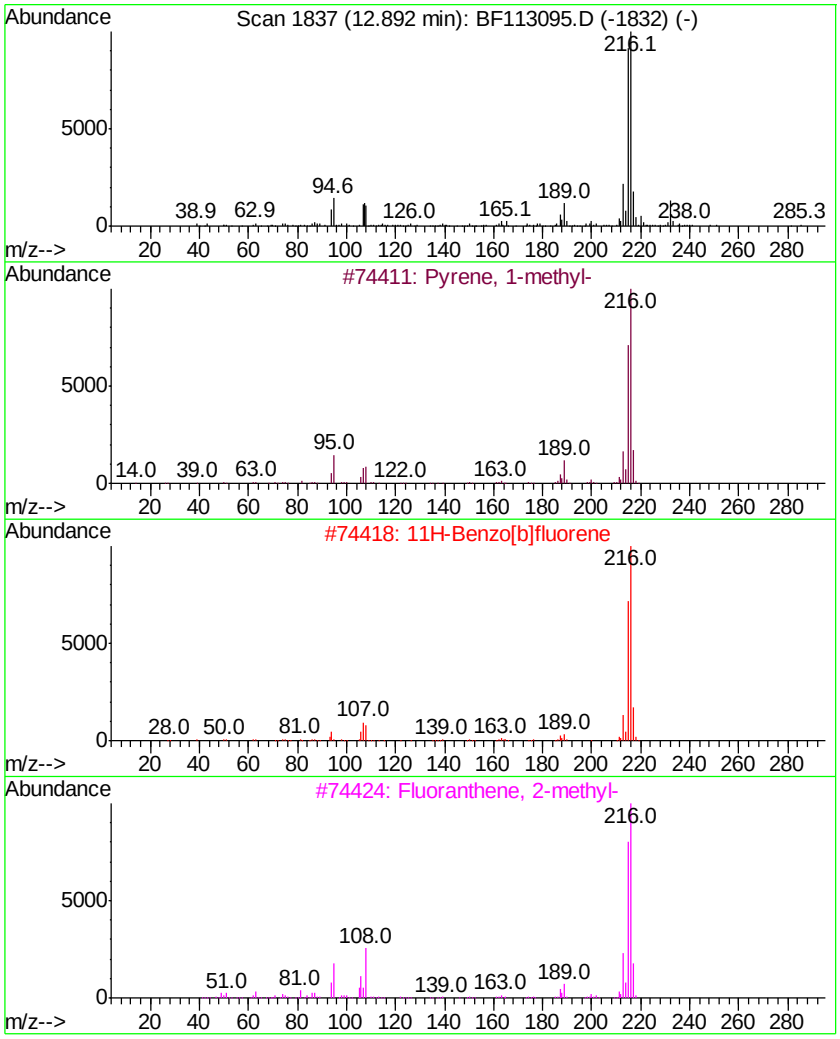
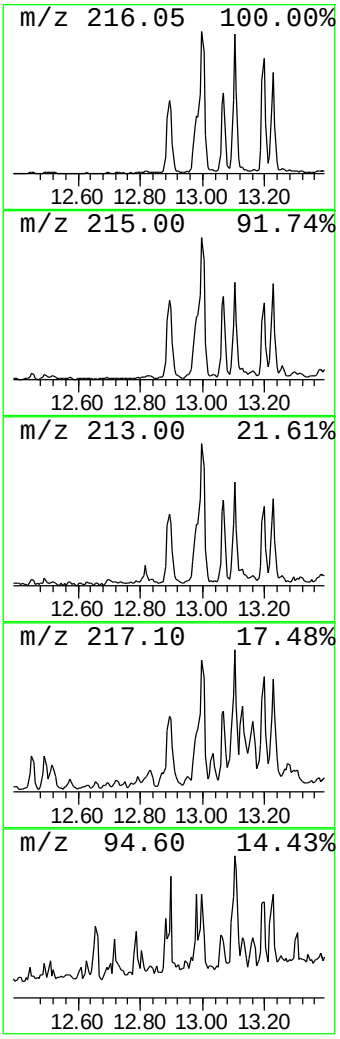
Peak Number 14 Pyrene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.89	2.50 ng	311363	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Misc :
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Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

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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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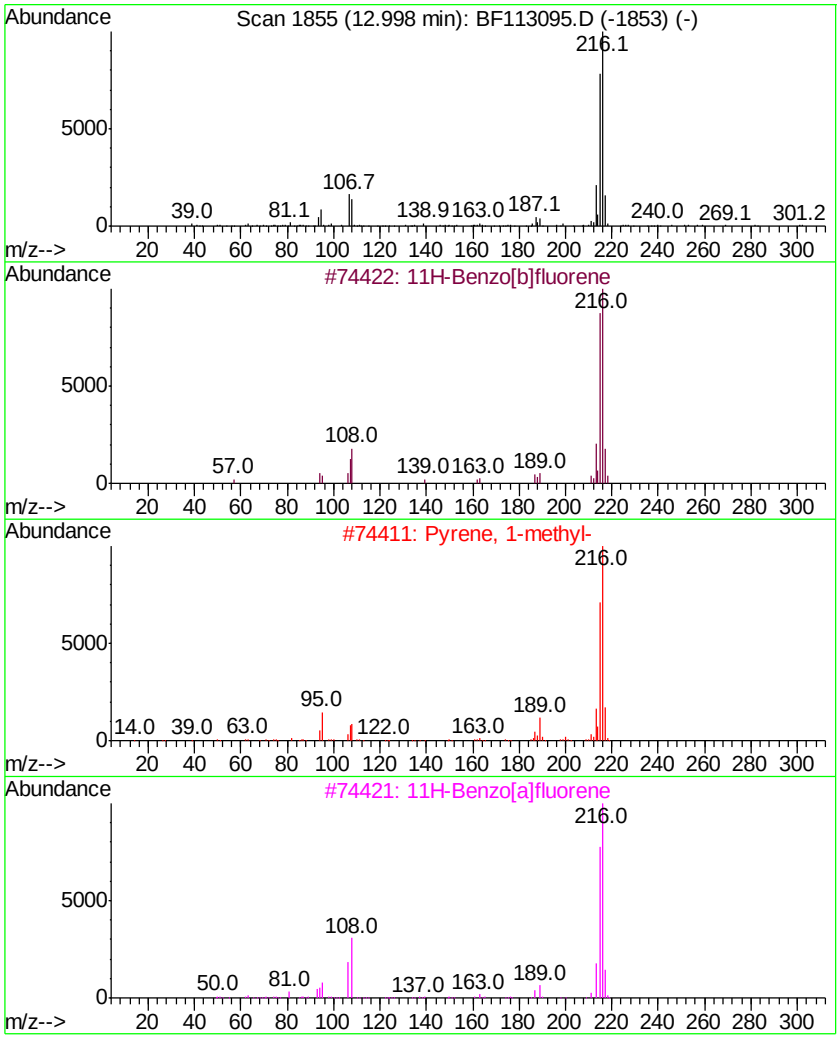
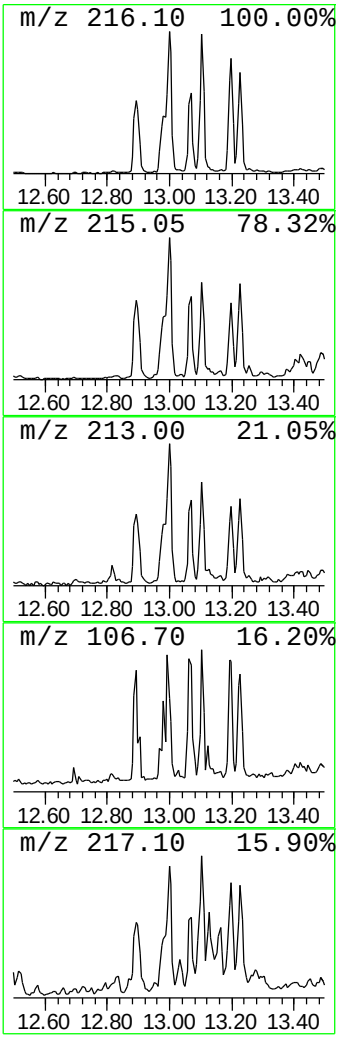
Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.51 ng	311850	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	62





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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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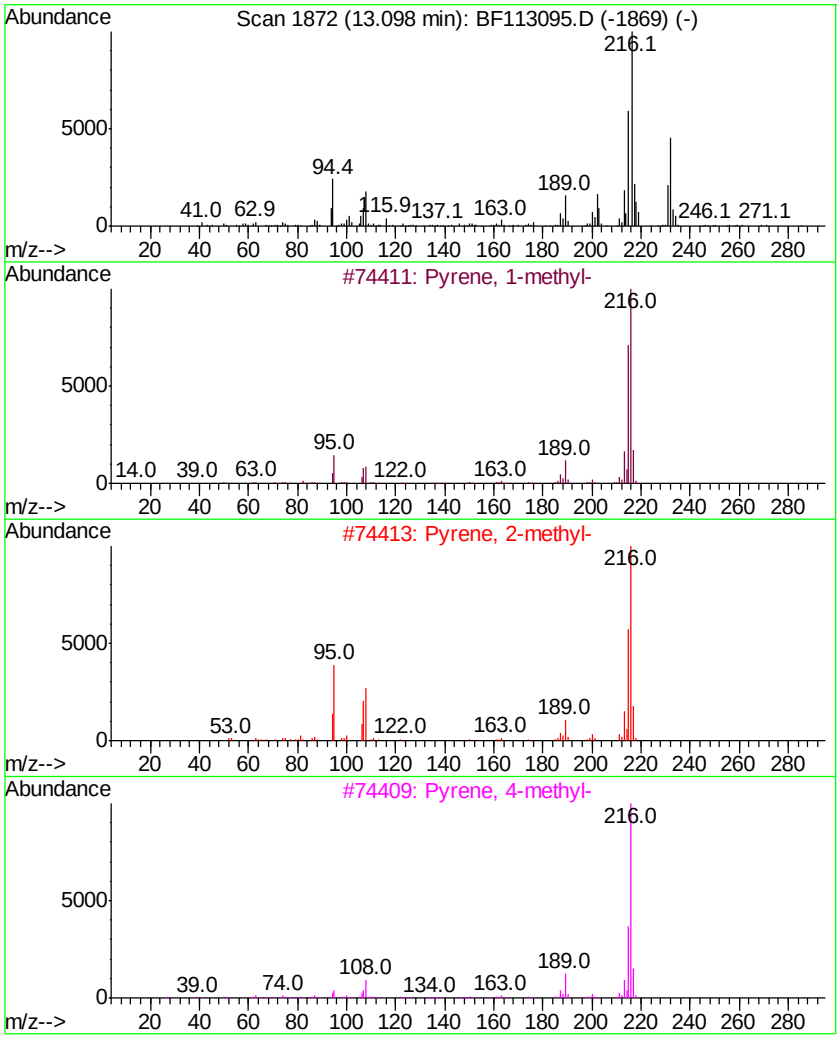
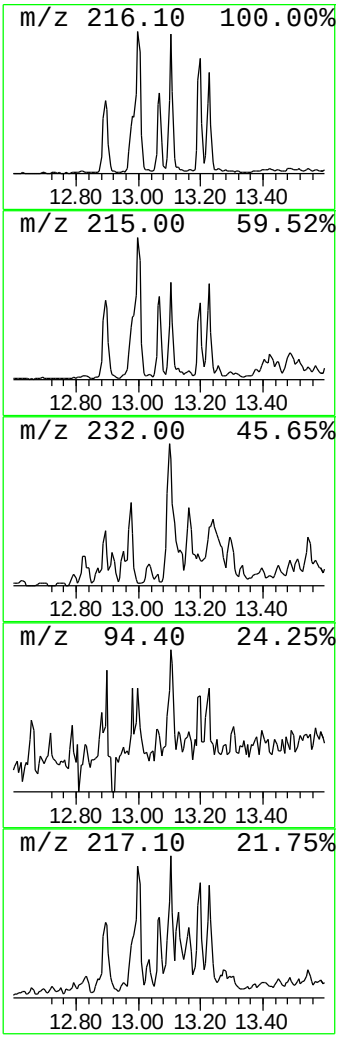
Peak Number 16 Pyrene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	2.61 ng	324472	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	86





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Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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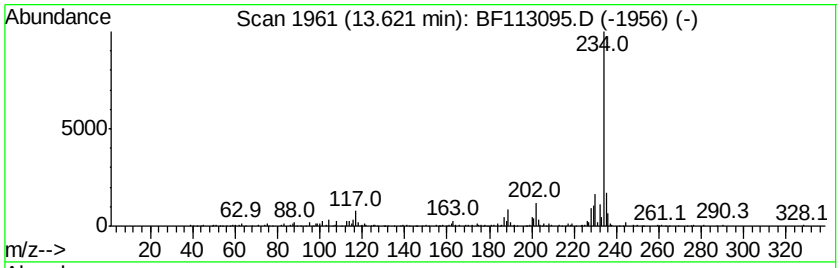
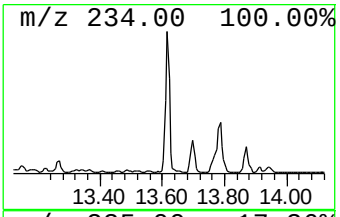
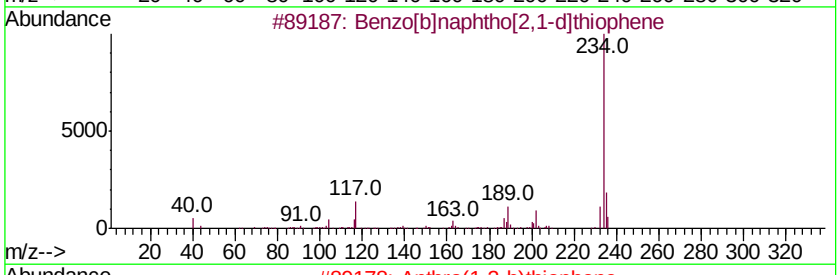
Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

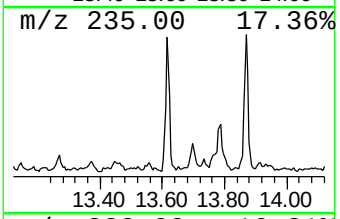
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.62	2.19 ng	271971	Chrysene-d12	13.87

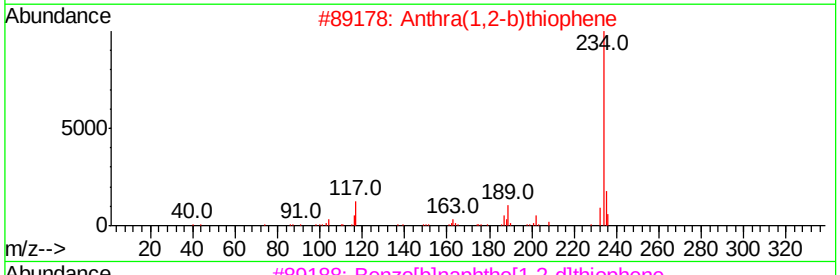
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
2	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	90
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	89
5	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	58

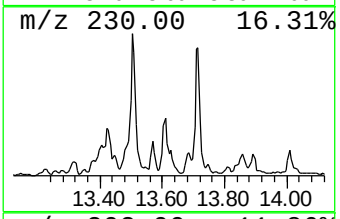


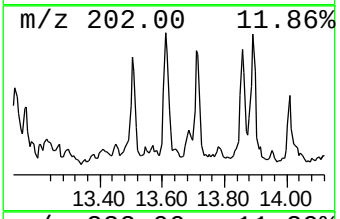


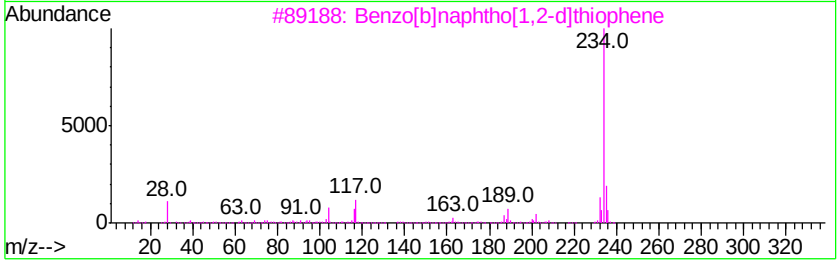


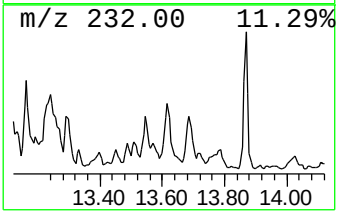












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Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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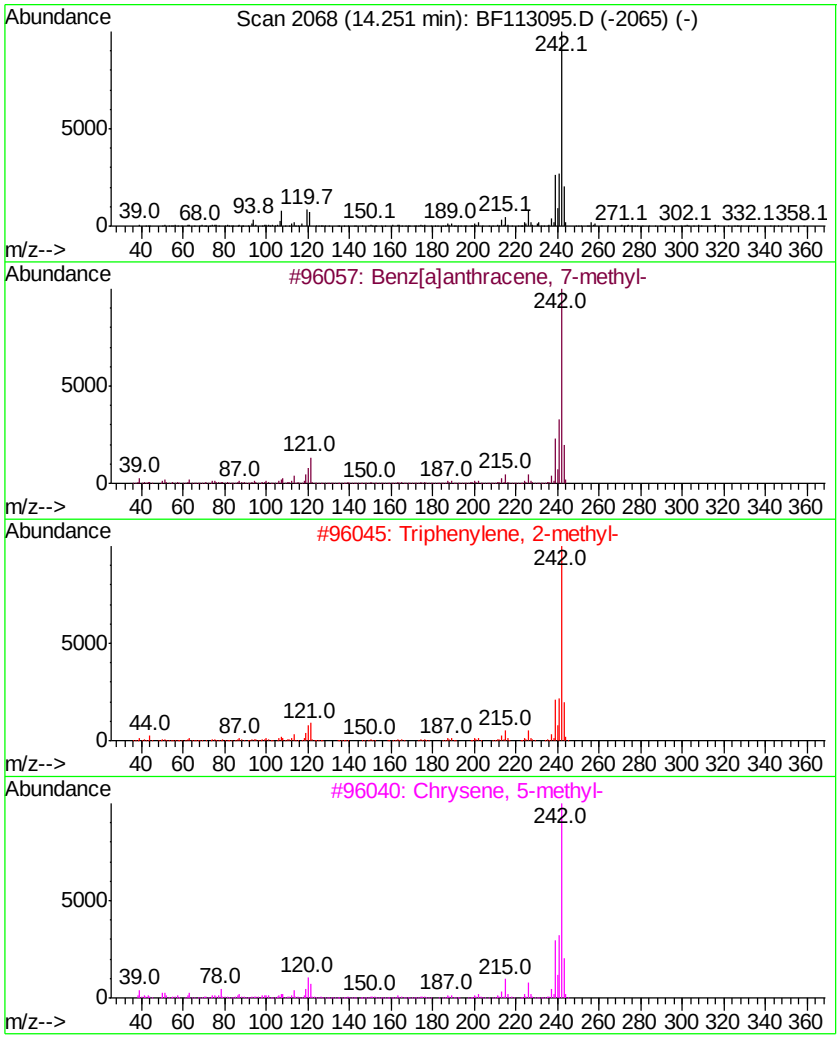
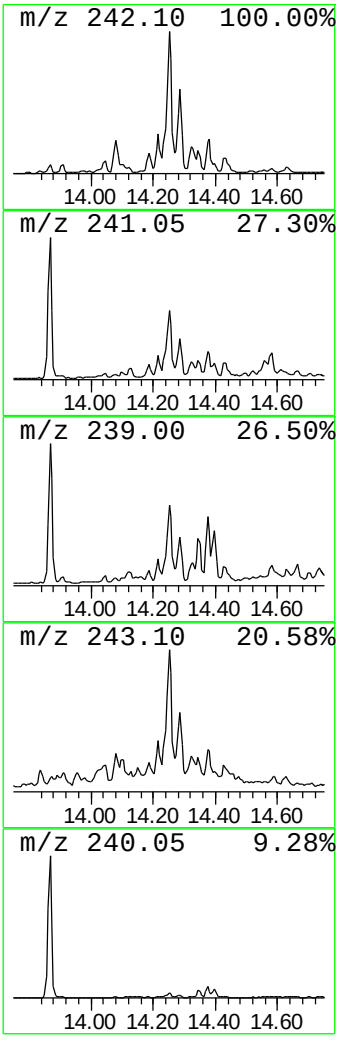
Peak Number 18 Benz[a]anthracene, 7-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	3.05 ng	378716	Chrysene-d12	13.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
3	Chrysene, 5-methyl-	242	C19H14	003697-24-3	93
4	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	92
5	Benz[a]anthracene, 11-methyl-	242	C19H14	006111-78-0	90





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Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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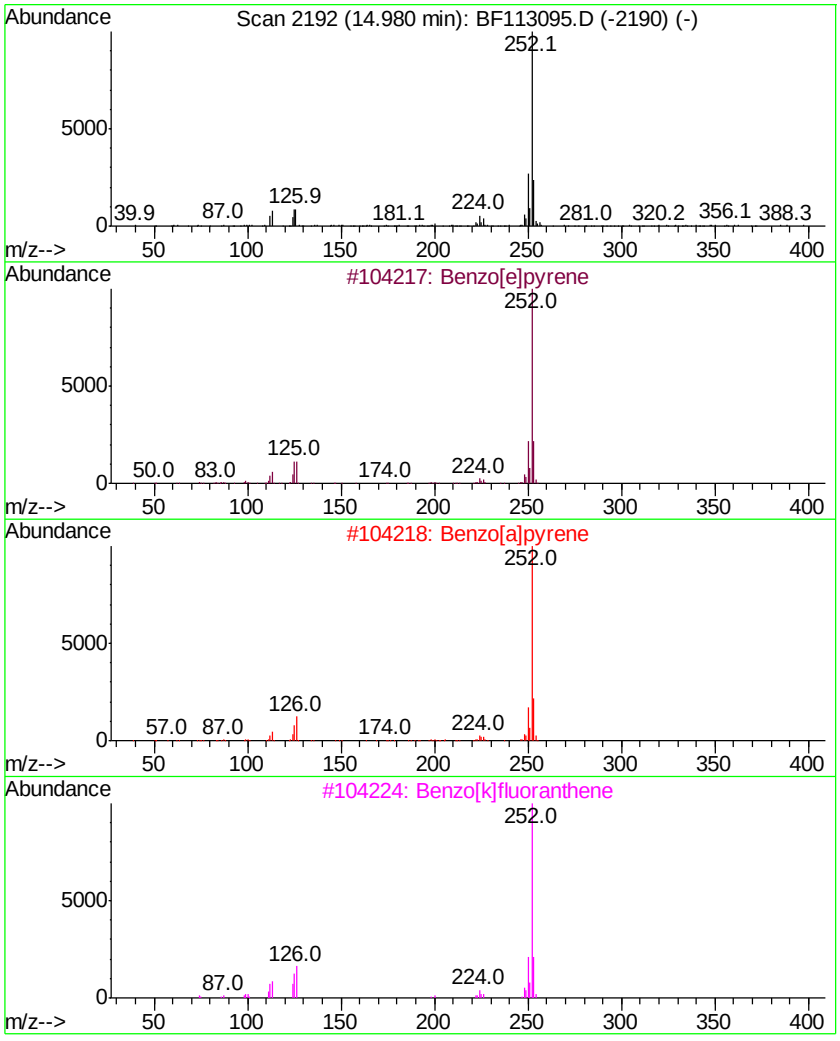
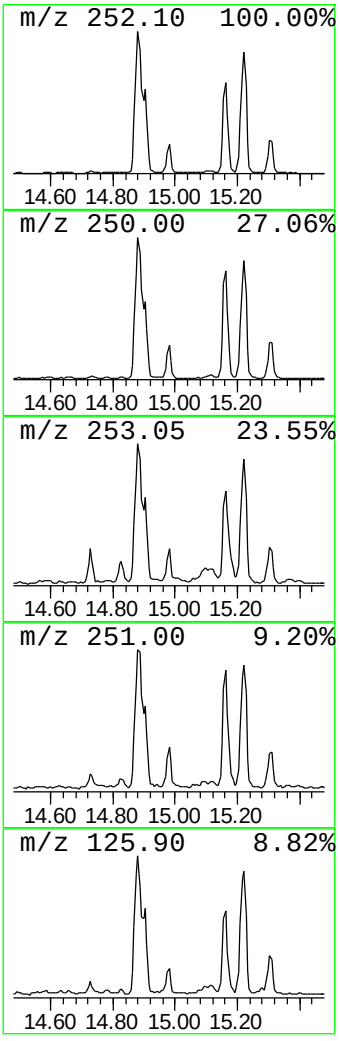
Peak Number 19 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	3.10 ng	154741	Perylene-d12	15.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	93
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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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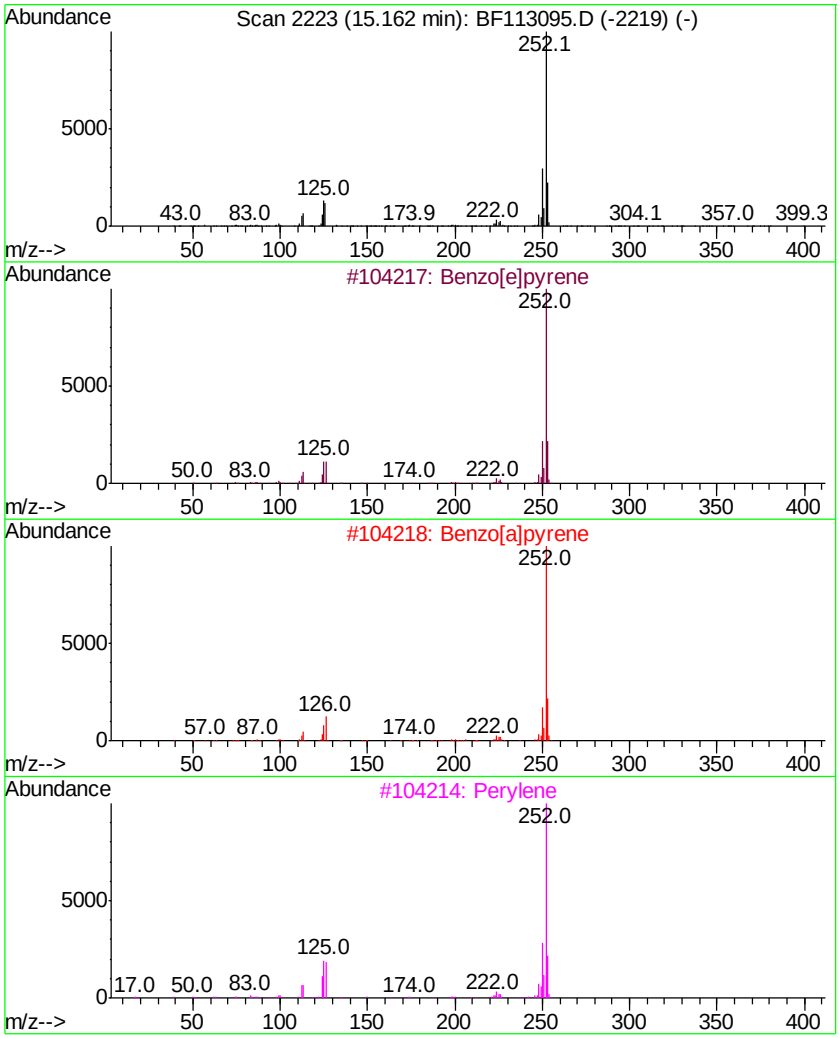
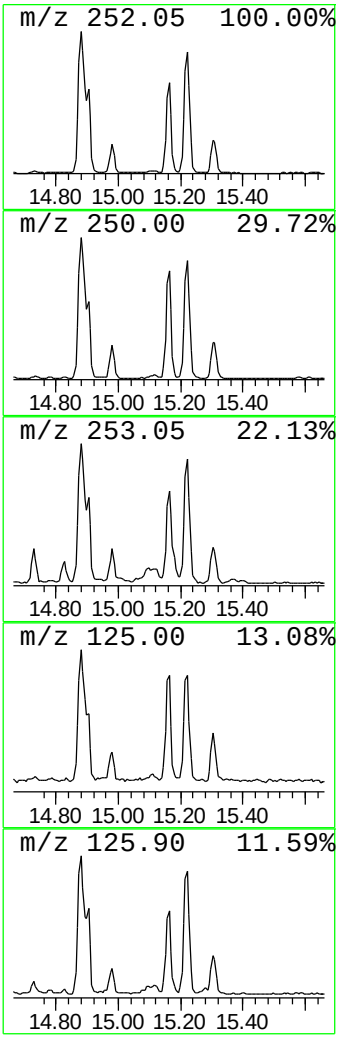
Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	14.07 ng	702821	Perylene-d12	15.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	98
3	Perylene	252	C20H12	000198-55-0	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF031819\
Data File : BF113095.D
Acq On : 18 Mar 2019 17:27
Operator : JU/SJ
Sample : K1901-05 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-4(0.5-1.5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.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
unknown6.50	6.50	13.1	ng	548259	1	6.73	839000	20.0
Phenanthrene, 2-m...	11.74	5.2	ng	270975	4	11.24	1033410	20.0
Phenanthrene, 1-m...	11.77	7.8	ng	400609	4	11.24	1033410	20.0
Anthracene, 1-met...	11.82	2.5	ng	126507	4	11.24	1033410	20.0
4H-Cyclopenta[def...	11.85	9.1	ng	468634	4	11.24	1033410	20.0
Anthracene, 2-met...	11.87	3.6	ng	186995	4	11.24	1033410	20.0
5,16[1',2']:8,13[...	12.03	2.9	ng	147010	4	11.24	1033410	20.0
9,10-Anthracenedione	12.06	2.2	ng	115891	4	11.24	1033410	20.0
Phenanthrene, 4,5...	12.18	3.1	ng	157909	4	11.24	1033410	20.0
Anthracene, 1,4-d...	12.29	6.2	ng	320293	4	11.24	1033410	20.0
Pyrene, 4,5,9,10-...	12.32	2.7	ng	140789	4	11.24	1033410	20.0
Cyclopenta(def)ph...	12.37	3.7	ng	191182	4	11.24	1033410	20.0
Pyrene, 1-methyl-	12.89	2.5	ng	311363	5	13.87	2486220	20.0
11H-Benzo[b]fluorene	13.00	2.5	ng	311850	5	13.87	2486220	20.0
Pyrene, 2-methyl-	13.10	2.6	ng	324472	5	13.87	2486220	20.0
Benzo[b]naphtho[2...	13.62	2.2	ng	271971	5	13.87	2486220	20.0
Benz[a]anthracene...	14.25	3.0	ng	378716	5	13.87	2486220	20.0
Benzo[e]pyrene	14.98	3.1	ng	154741	6	15.28	998751	20.0
Perylene	15.16	14.1	ng	702821	6	15.28	998751	20.0