LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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-BF073019.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	5.440	566	570	598	rBV	2336838	2763631	56.55%	3.662%
2	6.451	738	742	761	rBV	2742481	3030118	62.00%	4.015%
3	6.581	761	764	779	rVB	2990623	2905781	59.45%	3.850%
4	6.810	800	803	815	rBV	910453	860959	17.62%	1.141%
5	6.963	826	829	849	rBV	2507753	2347876	48.04%	3.111%
6	7.375	895	899	922	rBV	1870715	1927694	39.44%	2.554%
7	8.087	1017	1020	1023	rBV	1160317	1112525	22.76%	1.474%
8	8.110	1023	1024	1034	rVB	370412	339267	6.94%	0.449%
9	8.810	1140	1143	1151	rVB	134810	134025	2.74%	0.178%
10	9.163	1199	1203	1206	rBV	3437575	3229974	66.09%	4.279%
11	9.557	1267	1270	1277	rVV	323878	283622	5.80%	0.376%
12	9.839	1313	1318	1321	rBV	1572950	1332735	27.27%	1.766%
13	9.875	1321	1324	1332	rVB	1068433	1022116	20.91%	1.354%
14	10.045	1348	1353	1358	rBV	561836	548860	11.23%	0.727%
15	10.386	1408	1411	1417	rBV	1000967	918392	18.79%	1.217%
16	10.457	1417	1423	1424	rVV	133107	196682	4.02%	0.261%
17	10.475	1424	1426	1429	rVV	206963	201519	4.12%	0.267%
18	10.522	1432	1434	1436	rVV	97032	110998	2.27%	0.147%
19	10.551	1436	1439	1443	rVB	165338	171016	3.50%	0.227%
20	10.633	1449	1453	1459	rBV	2127825	2123948	43.46%	2.814%
21	10.822	1482	1485	1489	rVB2	119700	127505	2.61%	0.169%
22	10.939	1498	1505	1508	rBV2	188038	253669	5.19%	0.336%
23	10.969	1508	1510	1513	rVV2	157407	139583	2.86%	0.185%
24	11.180	1543	1546	1550	rBV2	178133	204044	4.17%	0.270%
25	11.228	1550	1554	1561	rVB	392200	430940	8.82%	0.571%
26	11.328	1568	1571	1573	rBV	1478336	1404795	28.74%	1.861%
27	11.357	1573	1576	1579	rVV	4482661	4438905	90.82%	5.881%
28	11.404	1579	1584	1588	rVV	2011996	1951695	39.93%	2.586%
29	11.445	1588	1591	1596	rVV	260172	325023	6.65%	0.431%
30	11.492	1596	1599	1602	rVB2	85844	101230	2.07%	0.134%
31	11.563	1607	1611	1617	rBV2	868214	932169	19.07%	1.235%
32	11.616	1617	1620	1622	rVB2	89557	96585	1.98%	0.128%
33	11.827	1653	1656	1659	rBV	642580	570853	11.68%	0.756%
34	11.857	1659	1661	1666	rVB	845593	768848	15.73%	1.019%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.904	1666	1669	1672	rBV	344874	314120	6.43%	0.416%
36	11.939	1672	1675	1678	rVV	1133145	1183580	24.22%	1.568%
37	11.963	1678	1679	1685	rVB	430000	314595	6.44%	0.417%
38	12.016	1685	1688	1690	rBV2	117597	105339	2.16%	0.140%
39	12.122	1703	1706	1711	rVB	459968	392017	8.02%	0.519%
40	12.275	1729	1732	1735	rVB	144420	118549	2.43%	0.157%
41	12.333	1739	1742	1745	rVB2	94828	96194	1.97%	0.127%
42	12.380	1746	1750	1752	rBV	364508	367627	7.52%	0.487%
43	12.422	1752	1757	1759	rVV2	146069	248714	5.09%	0.330%
44	12.469	1762	1765	1769	rBV3	110689	179769	3.68%	0.238%
45	12.545	1774	1778	1782	rBV	3964229	4417869	90.39%	5.853%
46	12.610	1786	1789	1795	rVB3	115507	156704	3.21%	0.208%
47	12.698	1800	1804	1806	rBV	240778	234568	4.80%	0.311%
48	12.774	1810	1817	1823	rVV2	3511484	4887401	100.00%	6.475%
49	12.827	1823	1826	1829	rVB2	241557	254518	5.21%	0.337%
50	12.904	1834	1839	1842	rVV	3194170	3297986	67.48%	4.370%
51	12.939	1842	1845	1849	rVB	238641	278232	5.69%	0.369%
52	13.074	1865	1868	1870	rBV3	177897	214496	4.39%	0.284%
53	13.098	1870	1872	1876	rVV	711341	684368	14.00%	0.907%
54	13.169	1880	1884	1886	rVV	735248	677278	13.86%	0.897%
55	13.204	1886	1890	1897	rVV3	350619	577909	11.82%	0.766%
56	13.298	1903	1906	1909	rBV	199234	176065	3.60%	0.233%
57	13.327	1909	1911	1915	rBV2	177974	183914	3.76%	0.244%
58	13.451	1929	1932	1934	rBV	124397	109990	2.25%	0.146%
59	13.522	1942	1944	1947	rVV	138088	159191	3.26%	0.211%
60	13.580	1951	1954	1958	rVV	109771	162922	3.33%	0.216%
61	13.621	1958	1961	1963	rVV2	121680	142661	2.92%	0.189%
62	13.721	1973	1978	1980	rBV	268501	313342	6.41%	0.415%
63	13.745	1980	1982	1984	rVV	334187	285185	5.84%	0.378%
64	13.774	1984	1987	1988	rVV	269968	243407	4.98%	0.322%
65	13.792	1988	1990	1995	rVV2	345928	505904	10.35%	0.670%
66	13.833	1995	1997	2002	rVB	141752	156605	3.20%	0.207%
67	13.892	2002	2007	2011	rBV	107265	165123	3.38%	0.219%
68	13.963	2012	2019	2023	rVV3	2273853	3470518	71.01%	4.598%
69	13.998	2023	2025	2028	rVV	1740768	1455997	29.79%	1.929%
70	14.074	2036	2038	2042	rVV	519970	468849	9.59%	0.621%
71	14.139	2042	2049	2051	rVV6	63150	115421	2.36%	0.153%

LSC Area Percent Report

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Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.169	2051	2054	2056	rVV2	167850	161578	3.31%	0.214%
73	14.204	2056	2060	2064	rVB2	197350	247065	5.06%	0.327%
74	14.357	2082	2086	2090	rVV	310056	369736	7.57%	0.490%
75	14.392	2090	2092	2095	rVV	113362	102850	2.10%	0.136%
76	14.457	2101	2103	2106	rVV	138371	127281	2.60%	0.169%
77	14.486	2106	2108	2109	rVV	109063	97760	2.00%	0.130%
78	14.504	2109	2111	2114	rVB2	221852	199082	4.07%	0.264%
79	14.692	2138	2143	2144	rBV4	80269	123729	2.53%	0.164%
80	14.786	2156	2159	2163	rVB3	134151	142702	2.92%	0.189%
81	14.857	2167	2171	2176	rBV2	103213	159652	3.27%	0.212%
82	15.010	2192	2197	2199	rVV	1196548	1694910	34.68%	2.246%
83	15.033	2199	2201	2207	rVV	647356	735539	15.05%	0.975%
84	15.116	2212	2215	2221	rBV	256986	284266	5.82%	0.377%
85	15.204	2226	2230	2231	rVV2	85113	98788	2.02%	0.131%
86	15.245	2234	2237	2243	rVV3	102044	228097	4.67%	0.302%
87	15.304	2243	2247	2254	rVV	657015	876012	17.92%	1.161%
88	15.368	2254	2258	2263	rVV	1085963	1361752	27.86%	1.804%
89	15.427	2264	2268	2271	rVV	684279	878726	17.98%	1.164%
90	15.457	2271	2273	2284	rVV	264372	457923	9.37%	0.607%
91	15.539	2284	2287	2293	rVB4	49746	106729	2.18%	0.141%
92	15.604	2293	2298	2301	rBV2	84579	129929	2.66%	0.172%
93	15.651	2301	2306	2313	rVB3	89883	207605	4.25%	0.275%
94	16.310	2413	2418	2429	rVB8	48572	133714	2.74%	0.177%
95	16.686	2477	2482	2486	rBV2	56643	97419	1.99%	0.129%
96	16.886	2509	2516	2526	rBV	414404	841358	17.21%	1.115%
97	17.057	2538	2545	2550	rBV	106226	223540	4.57%	0.296%
98	17.115	2550	2555	2561	rVV2	59395	107862	2.21%	0.143%
99	17.321	2584	2590	2603	rBV	287913	641193	13.12%	0.850%
100	17.580	2630	2634	2646	rVB	94243	215408	4.41%	0.285%

Sum of corrected areas: 75476714

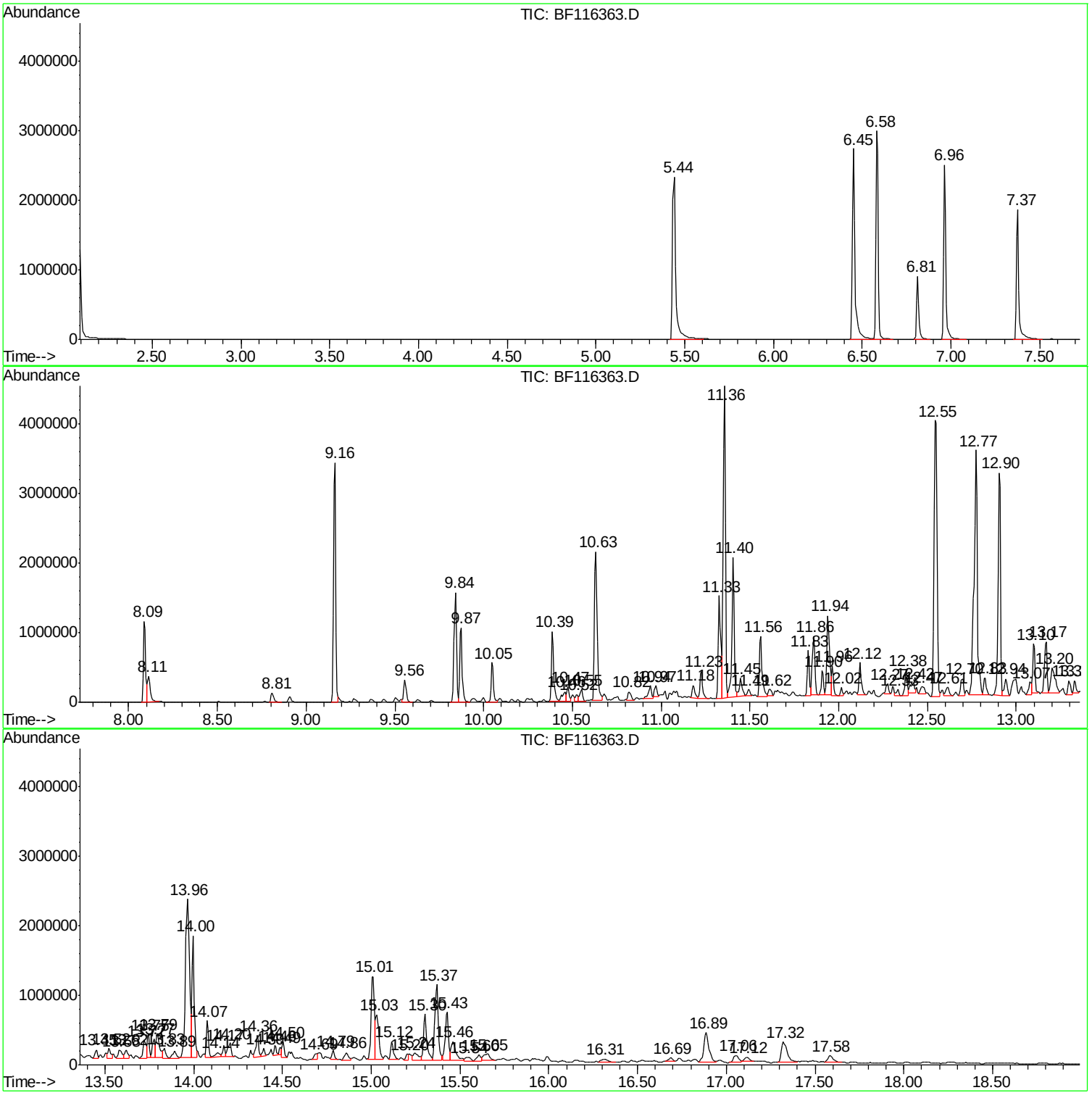
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

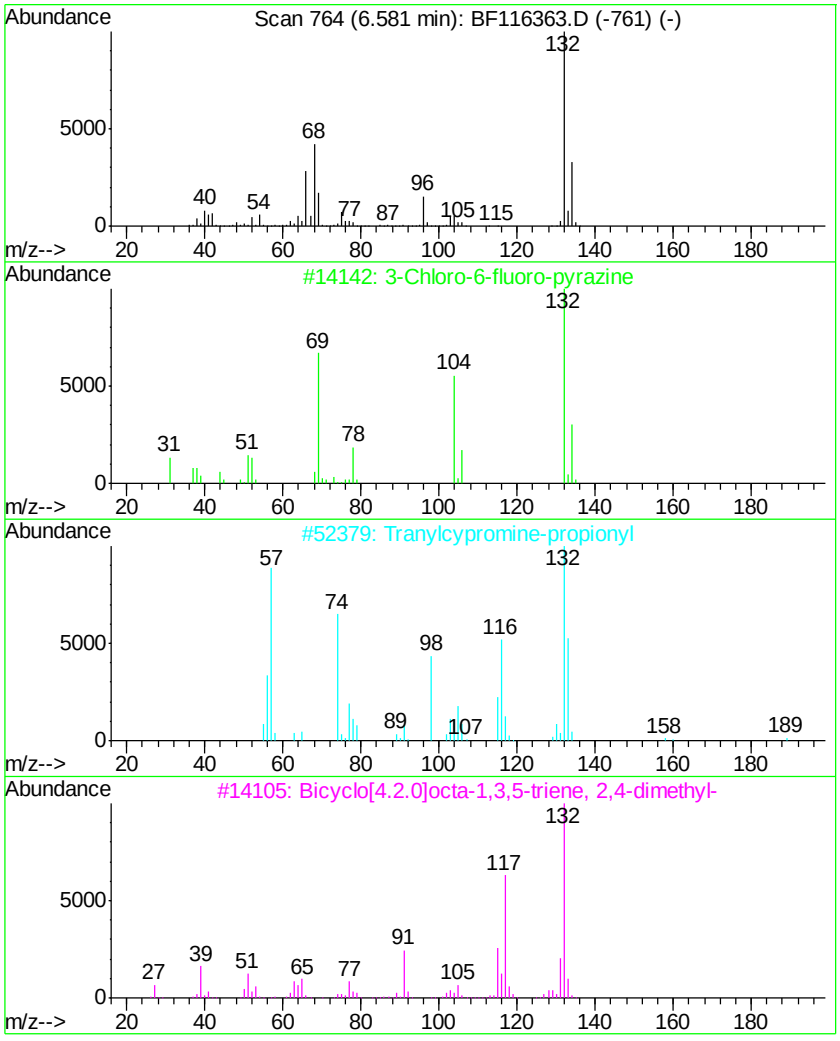
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

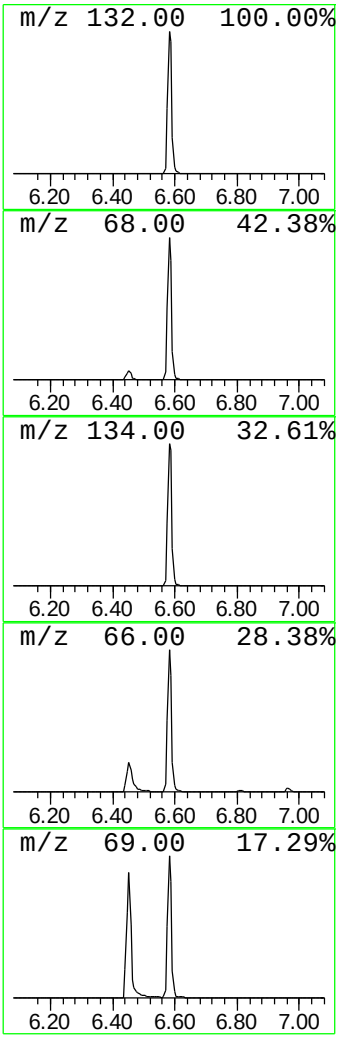
****

Peak Number 1 unknown6.58 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.58	67.50 ng	2905780	1,4-Dichlorobenzene-d4	6.81

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
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	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

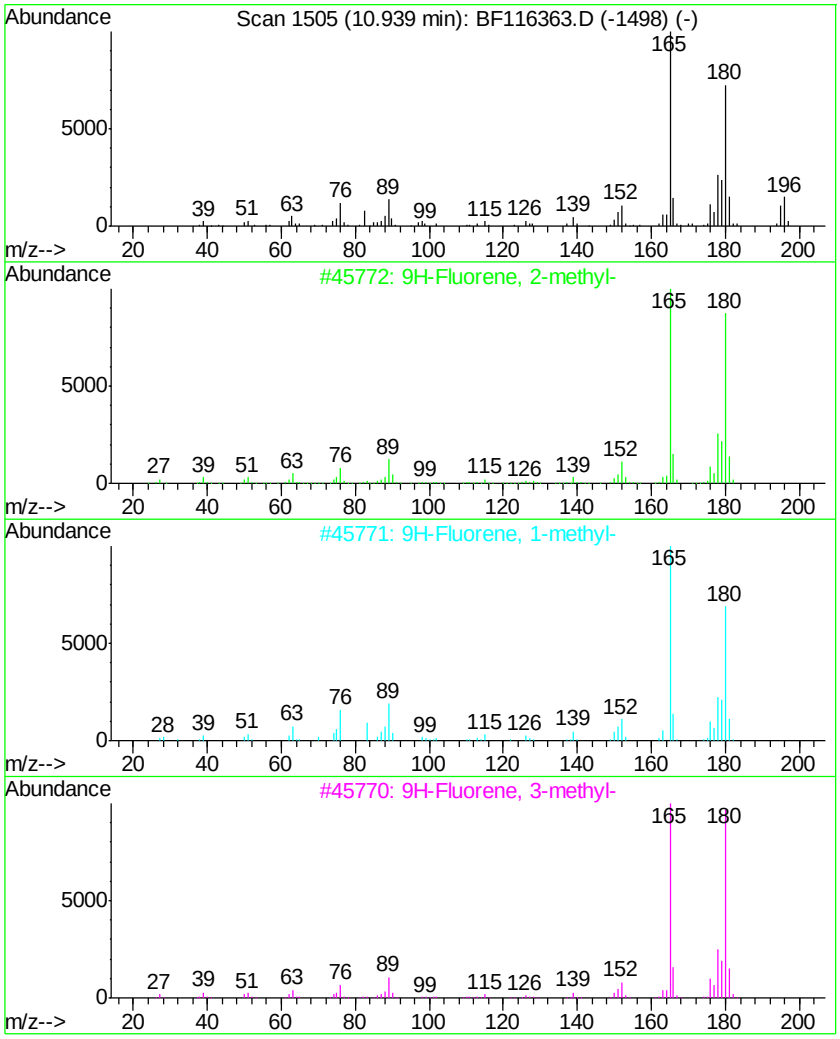
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

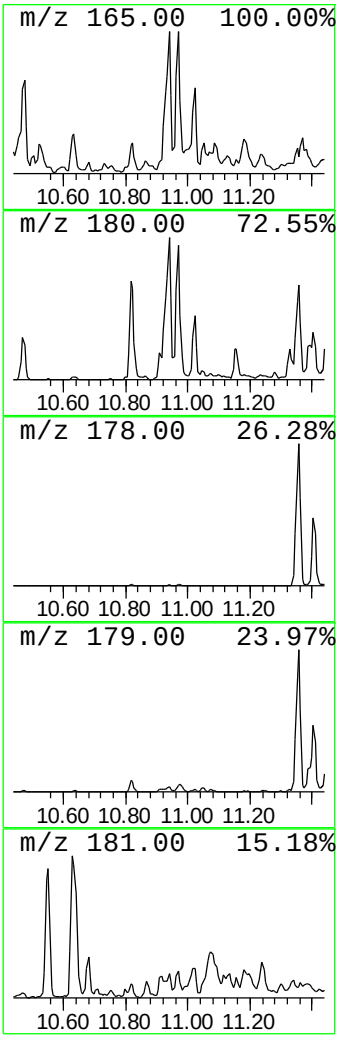
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.94	3.61 ng	253669	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	98
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	89





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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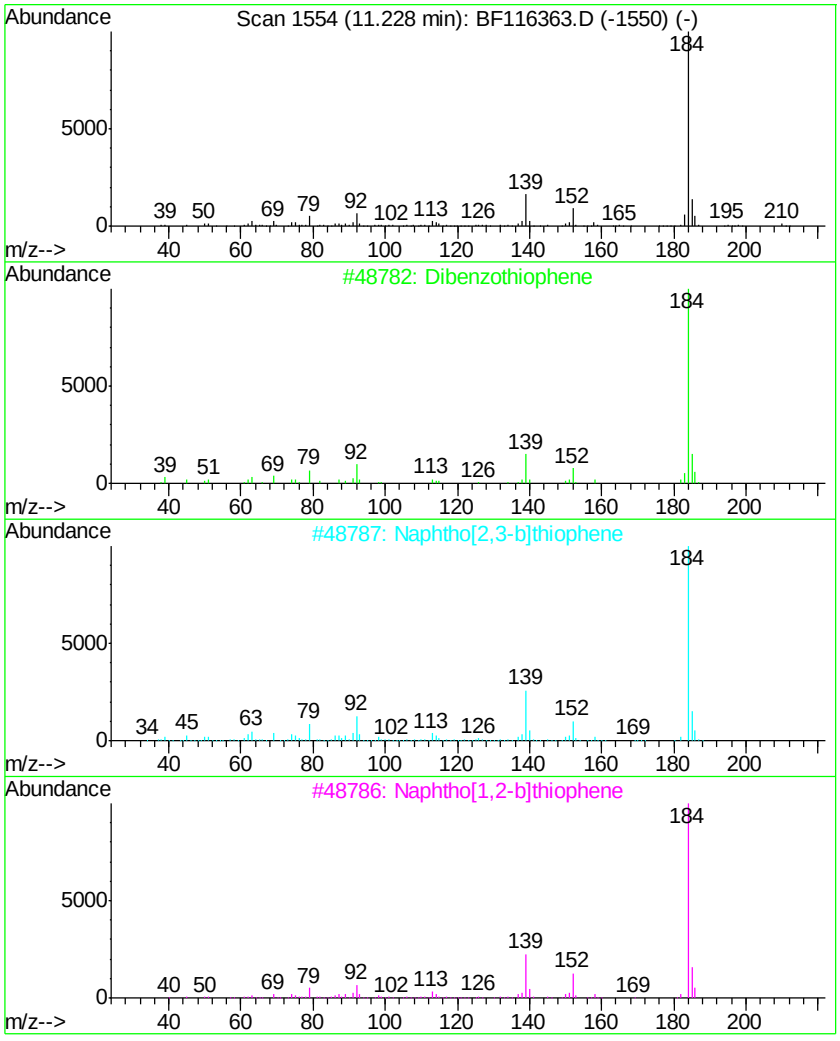
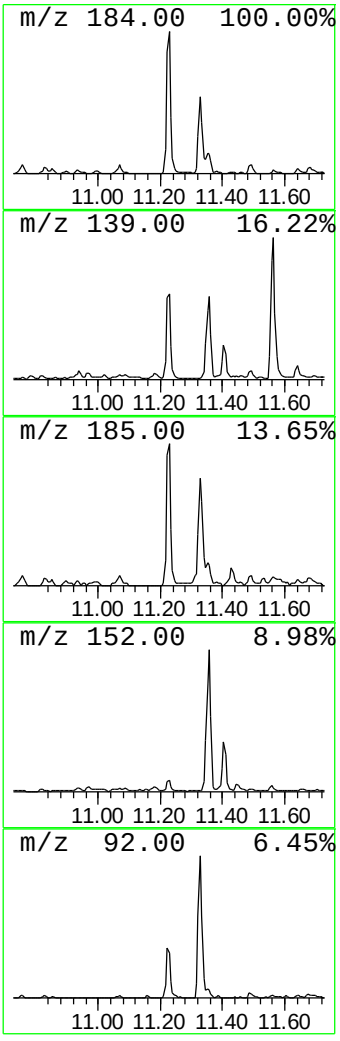
Peak Number 4 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	6.14 ng	430940	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	90
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	86





Library Search Compound Report

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Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

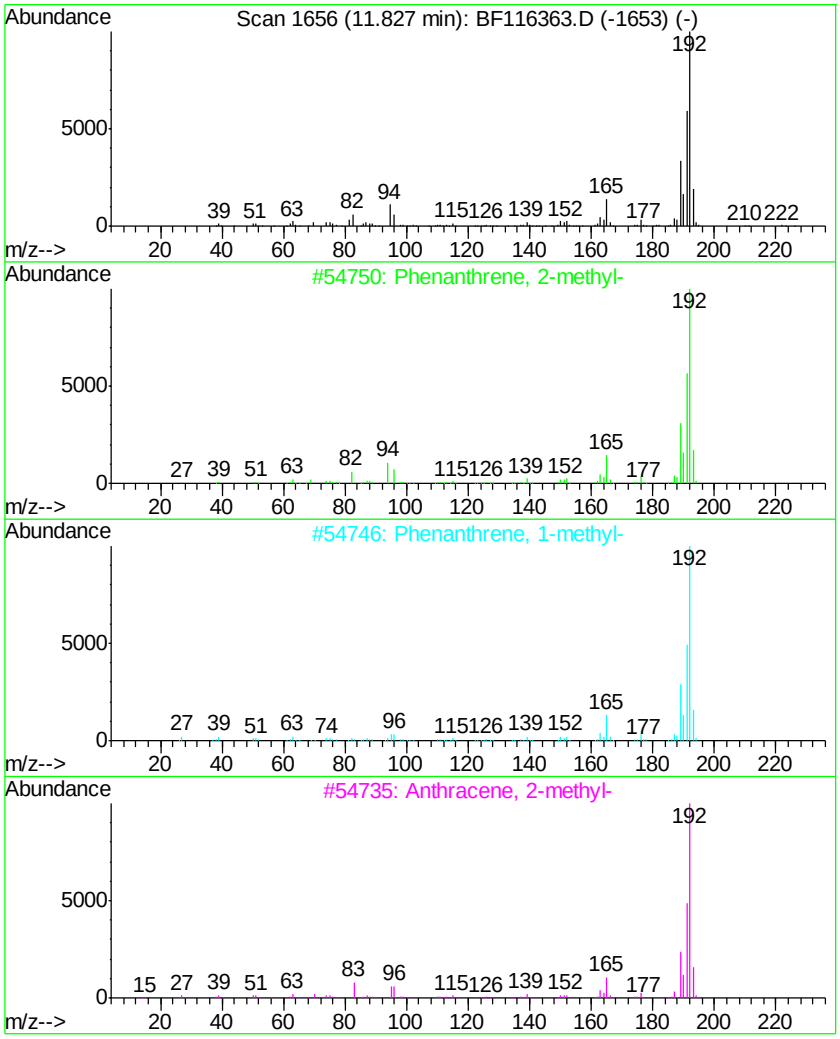
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

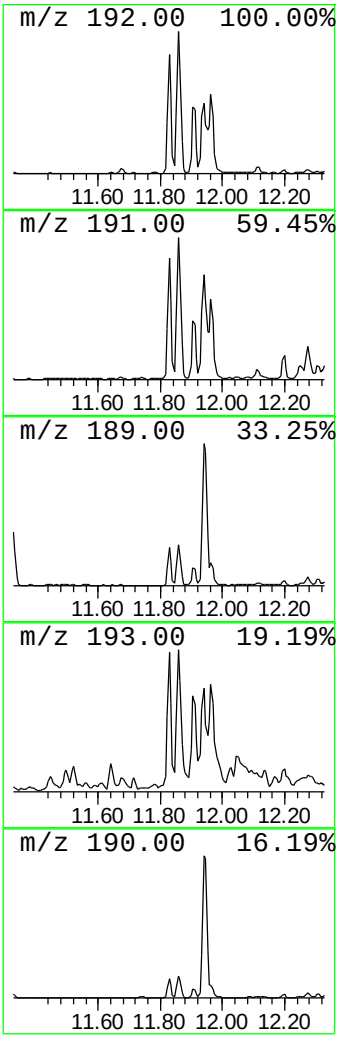
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	8.13 ng	570853	Phenanthrene-d10	11.33

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-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

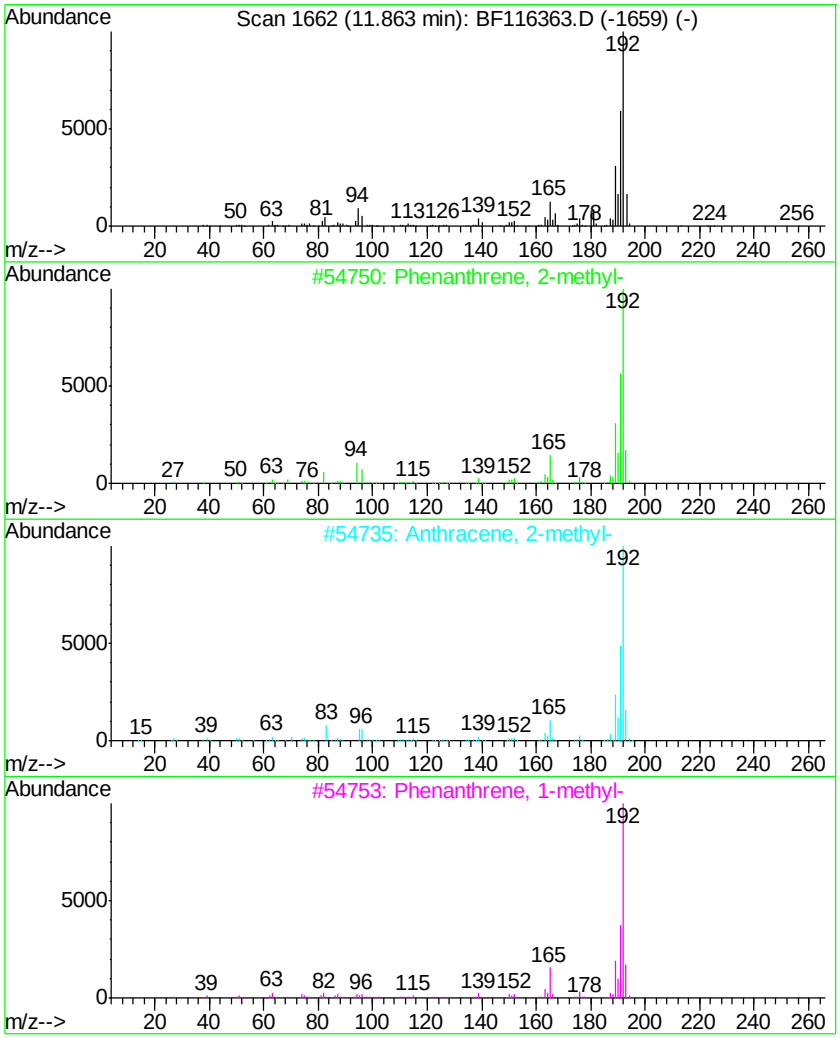
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

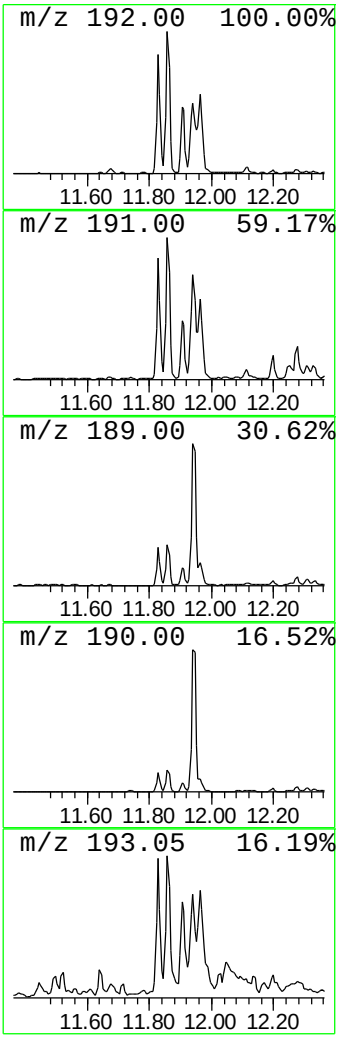
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	10.95 ng	768848	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94





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Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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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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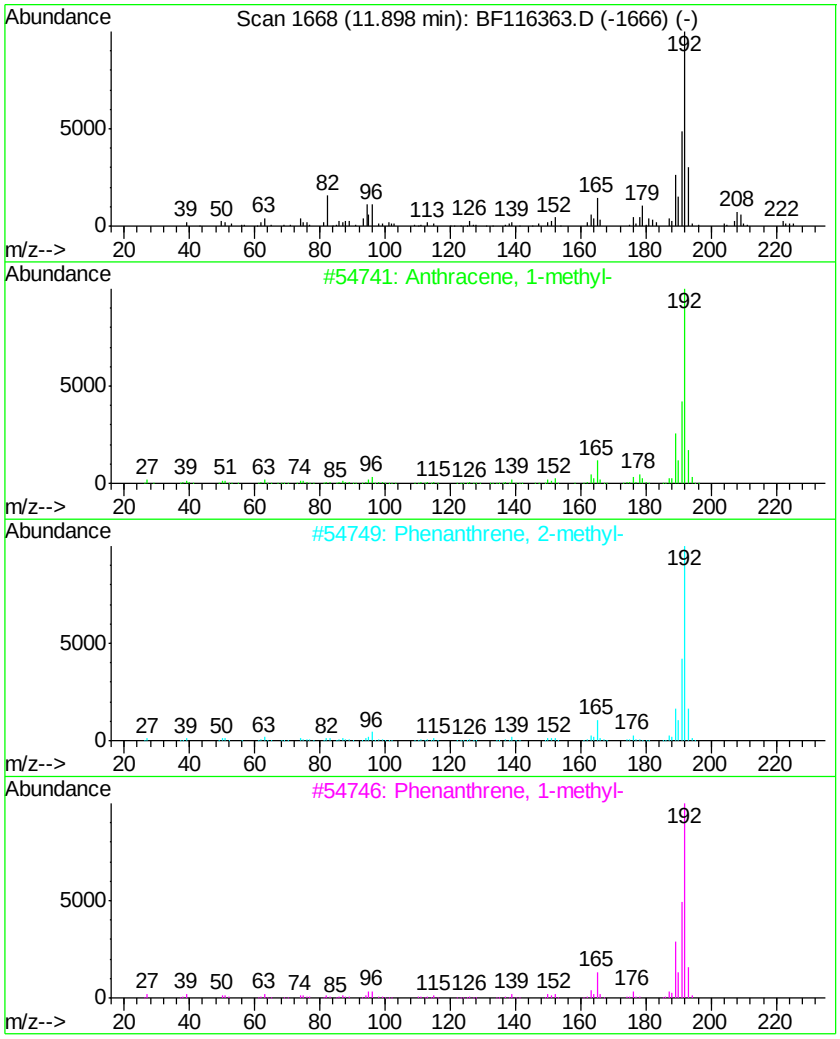
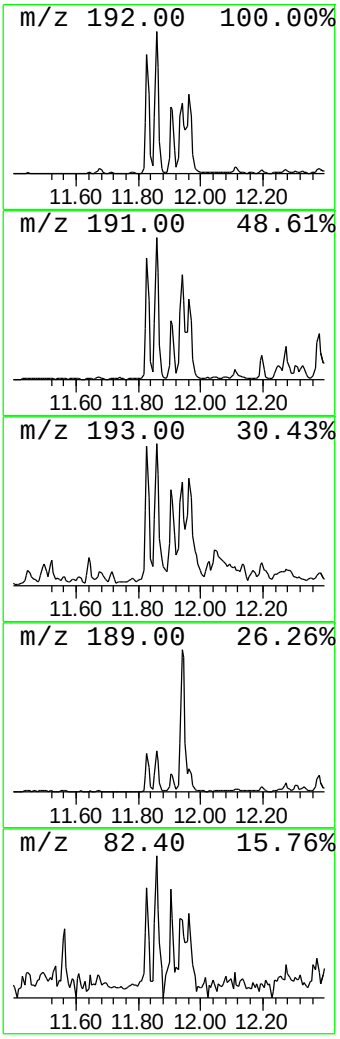
Peak Number 7 Anthracene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	4.47 ng	314120	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





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Sample : K4228-02
Misc :
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Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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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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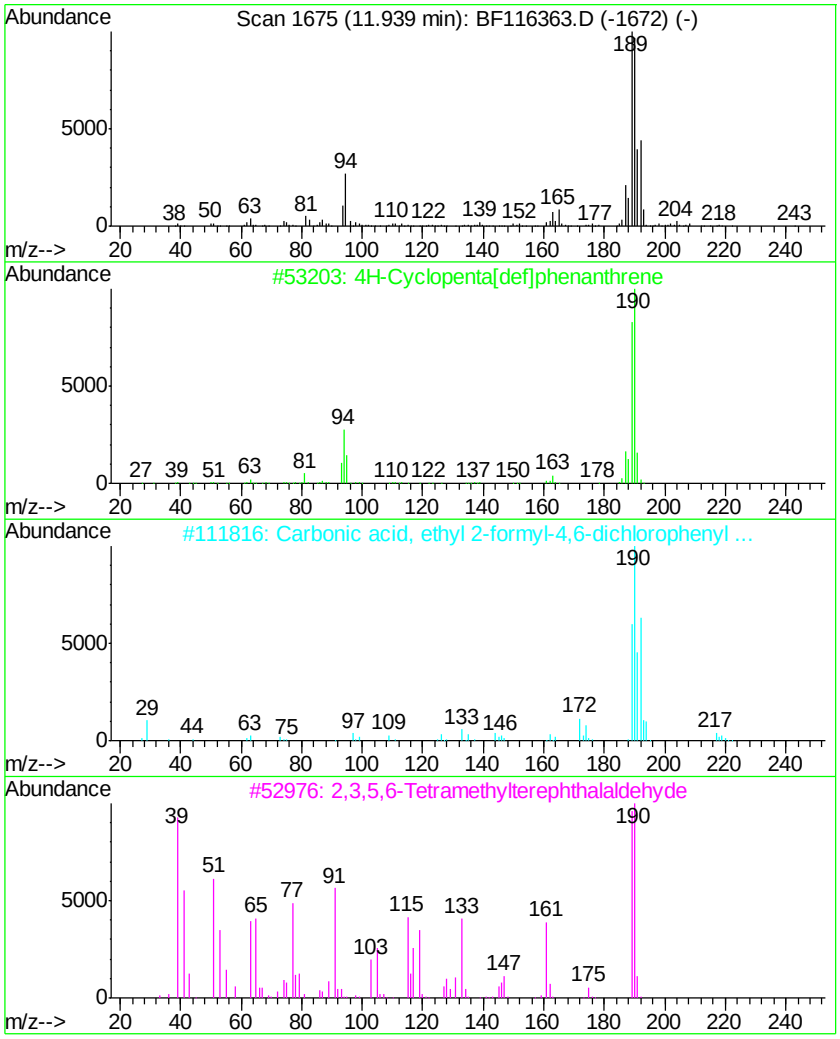
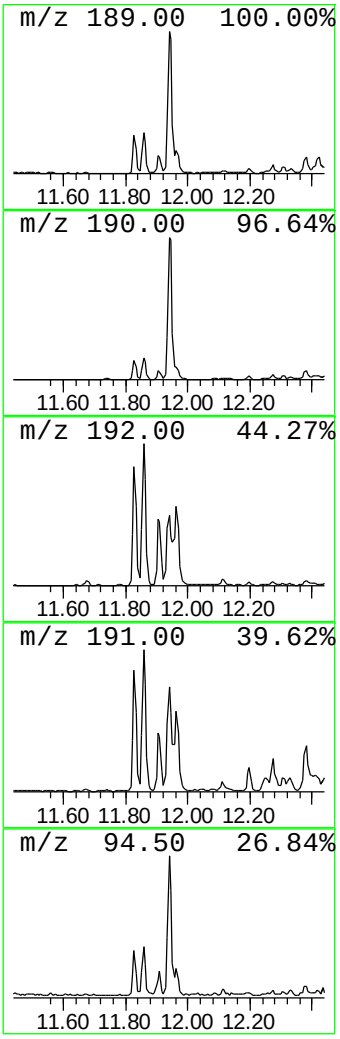
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	16.85 ng	1183580	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40





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Sample : K4228-02
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ClientSampleId : 2S-F1-F4-COMP-(0-1)

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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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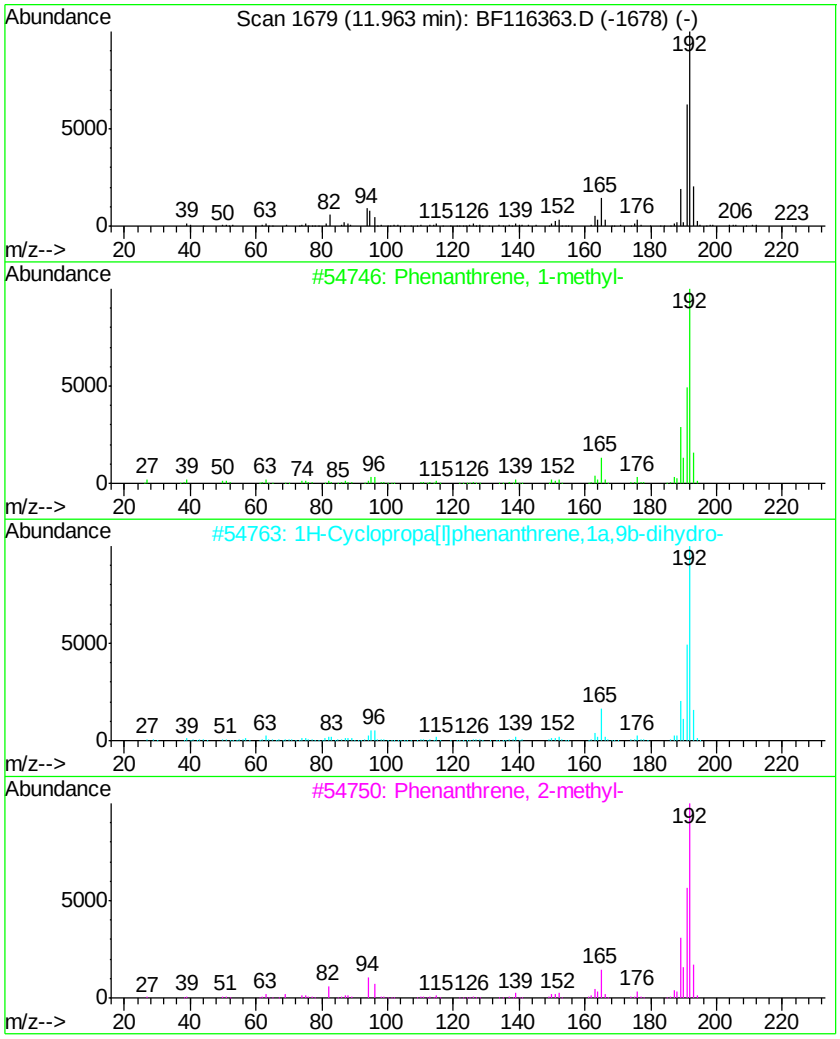
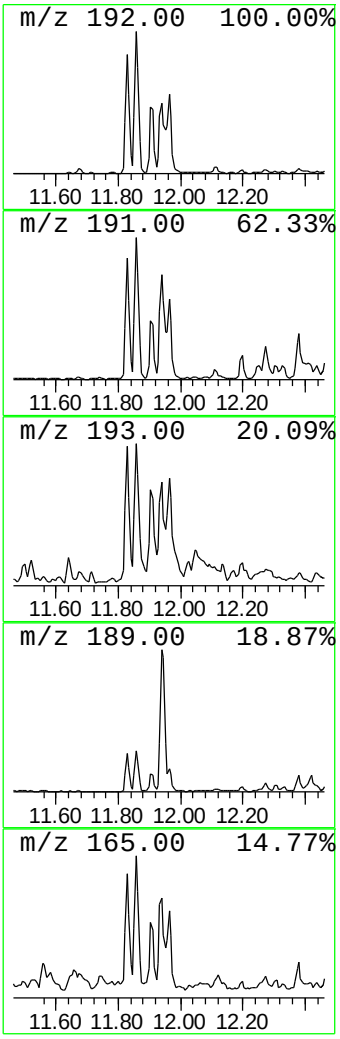
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	4.48 ng	314595	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87





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Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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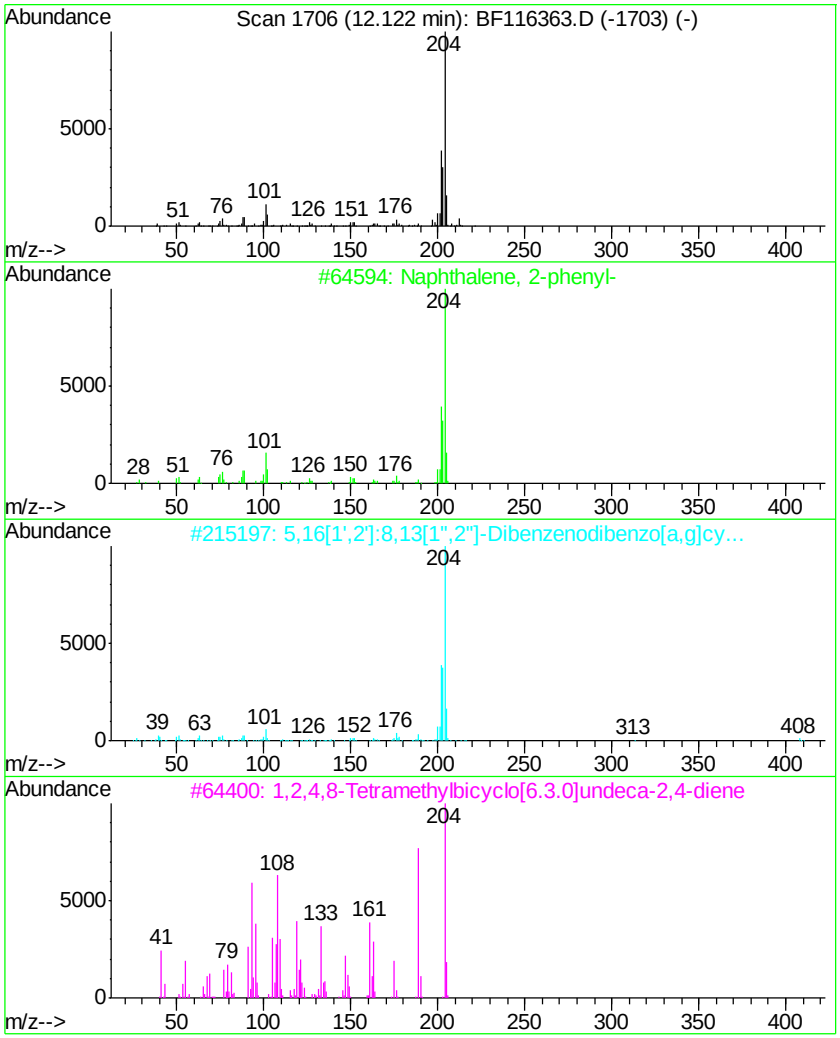
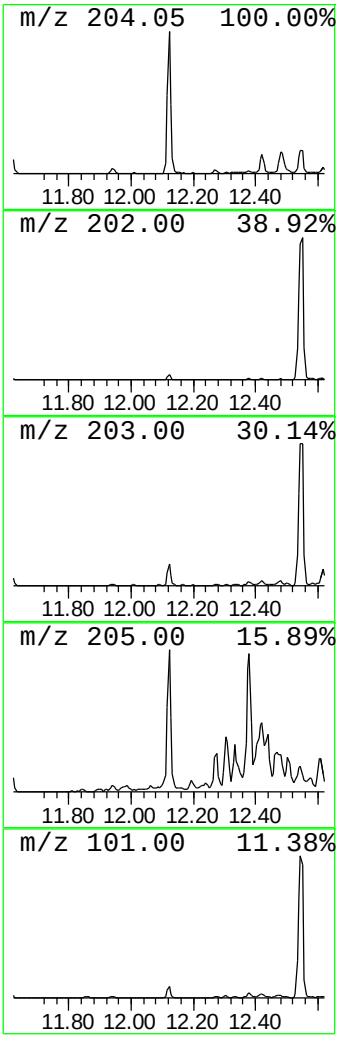
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	5.58 ng	392017	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	83
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53





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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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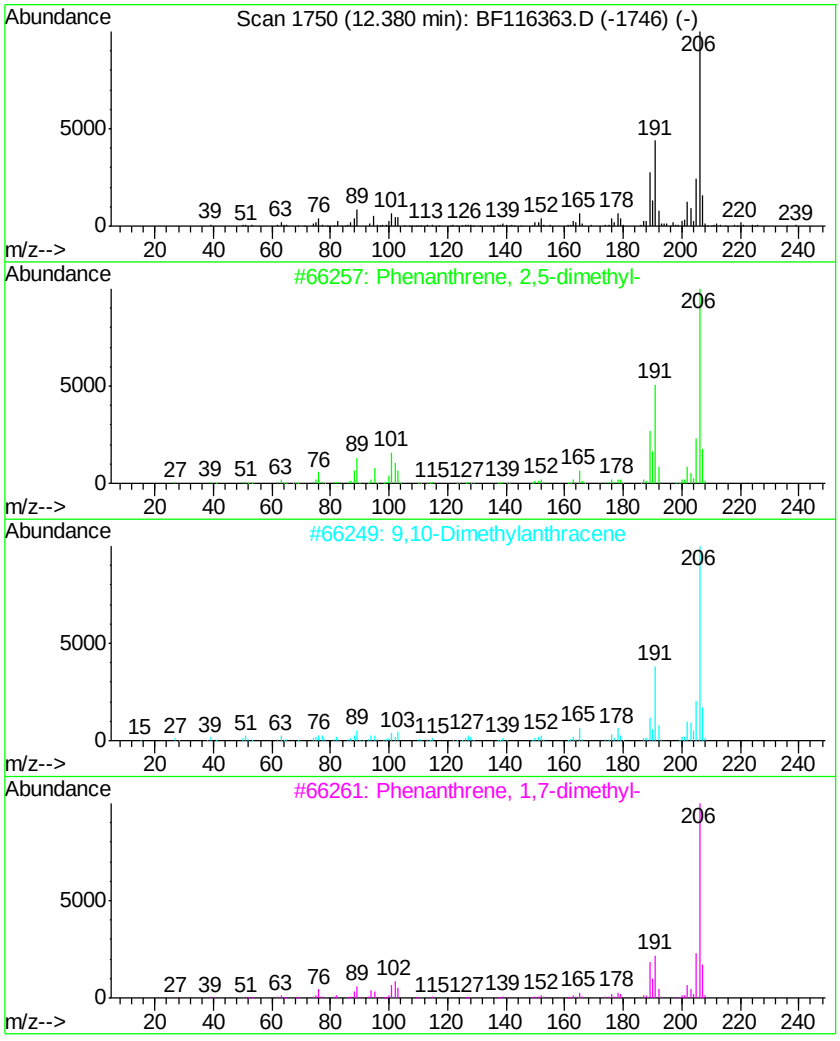
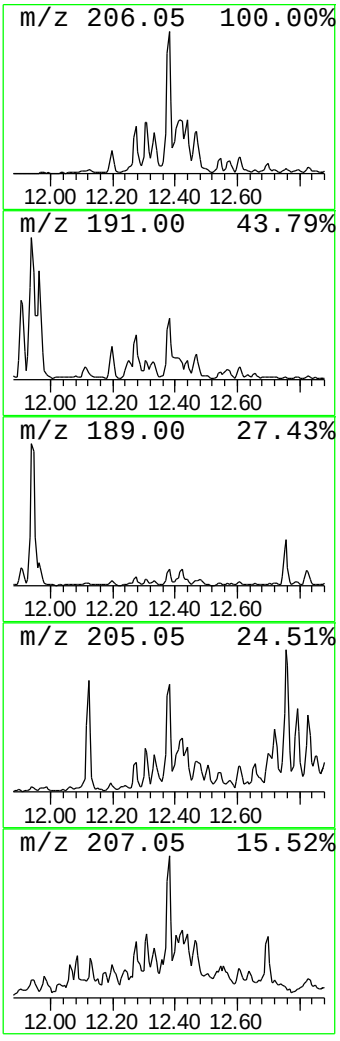
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.38	5.23 ng	367627	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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Misc :
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Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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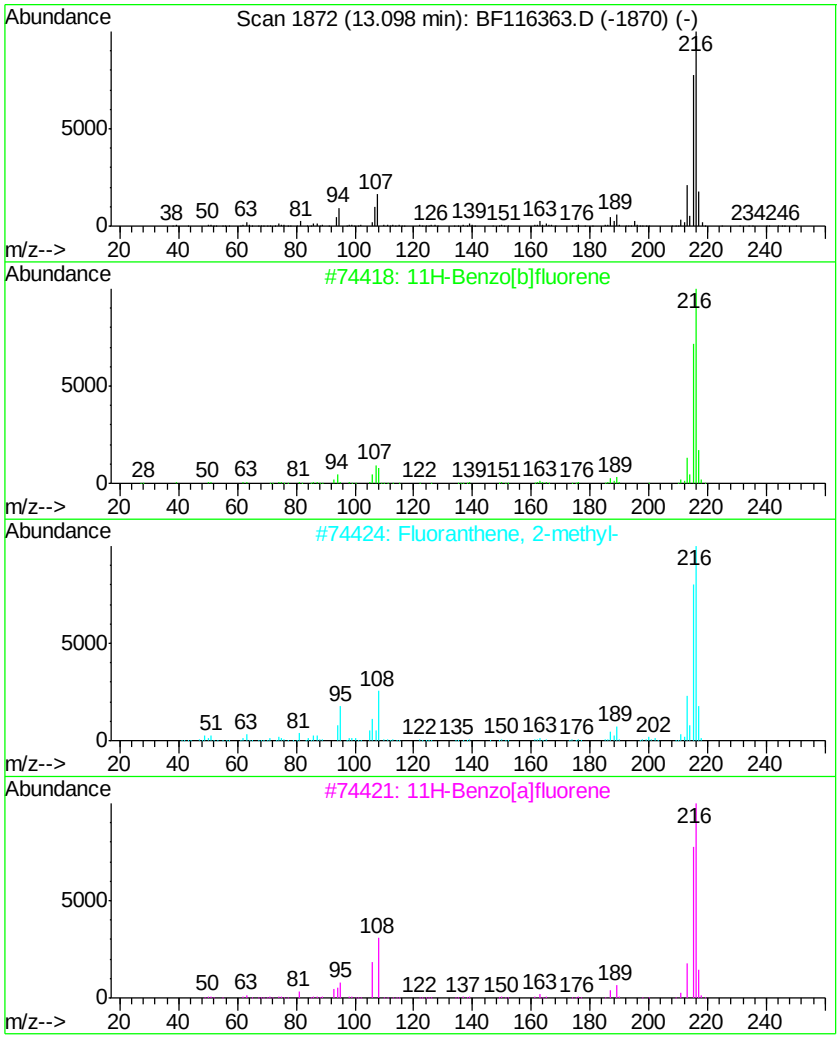
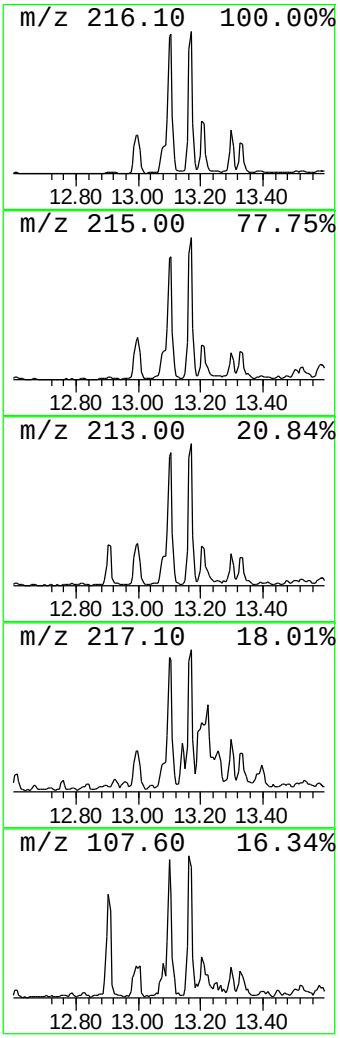
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.10	3.94 ng	684368	Chrysene-d12	13.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86





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Operator : HP/JU
Sample : K4228-02
Misc :
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Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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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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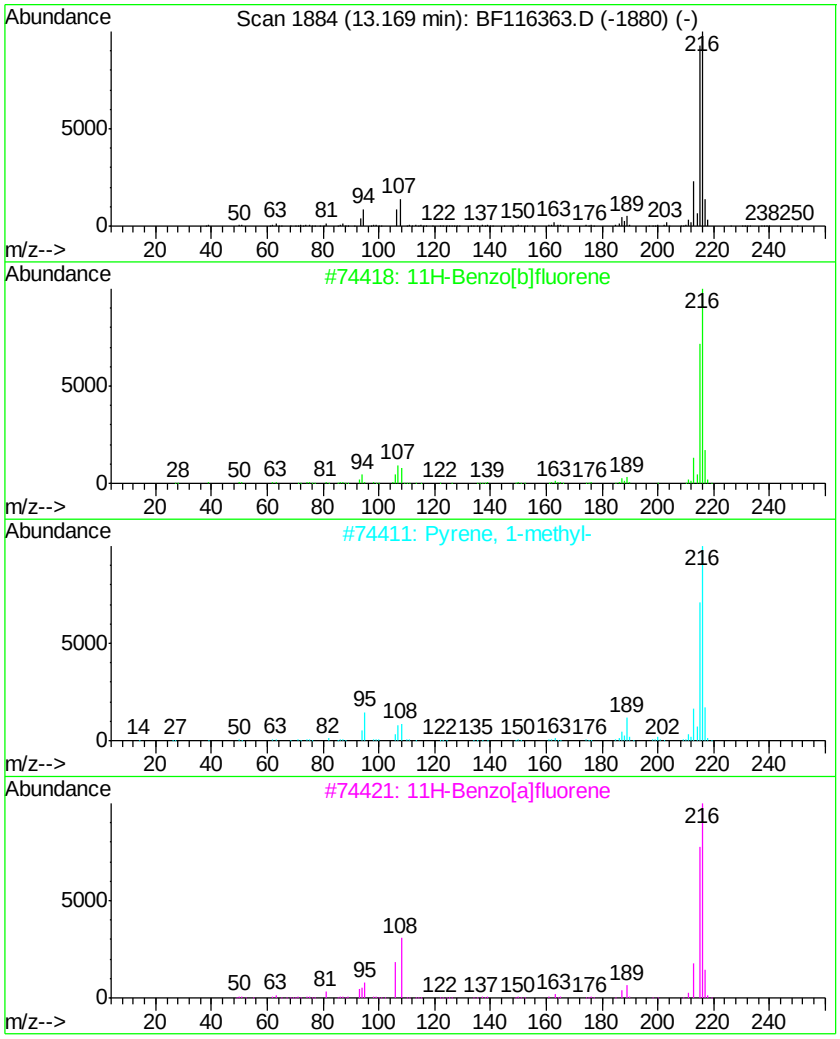
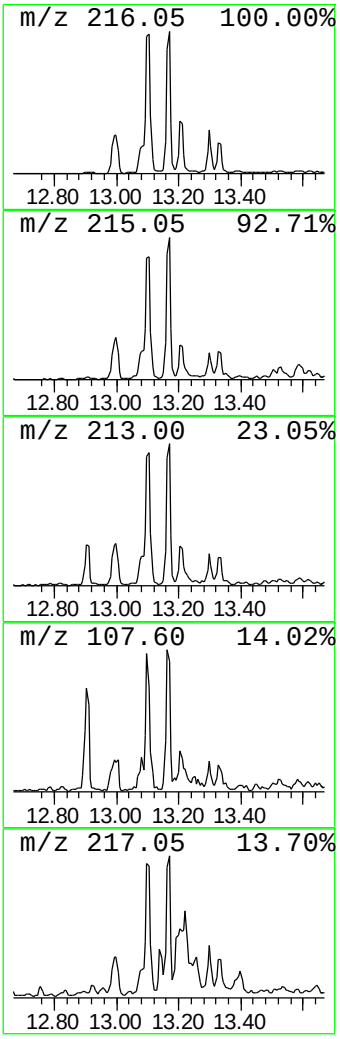
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	3.90 ng	677278	Chrysene-d12	13.97

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	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	64





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Misc :
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Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

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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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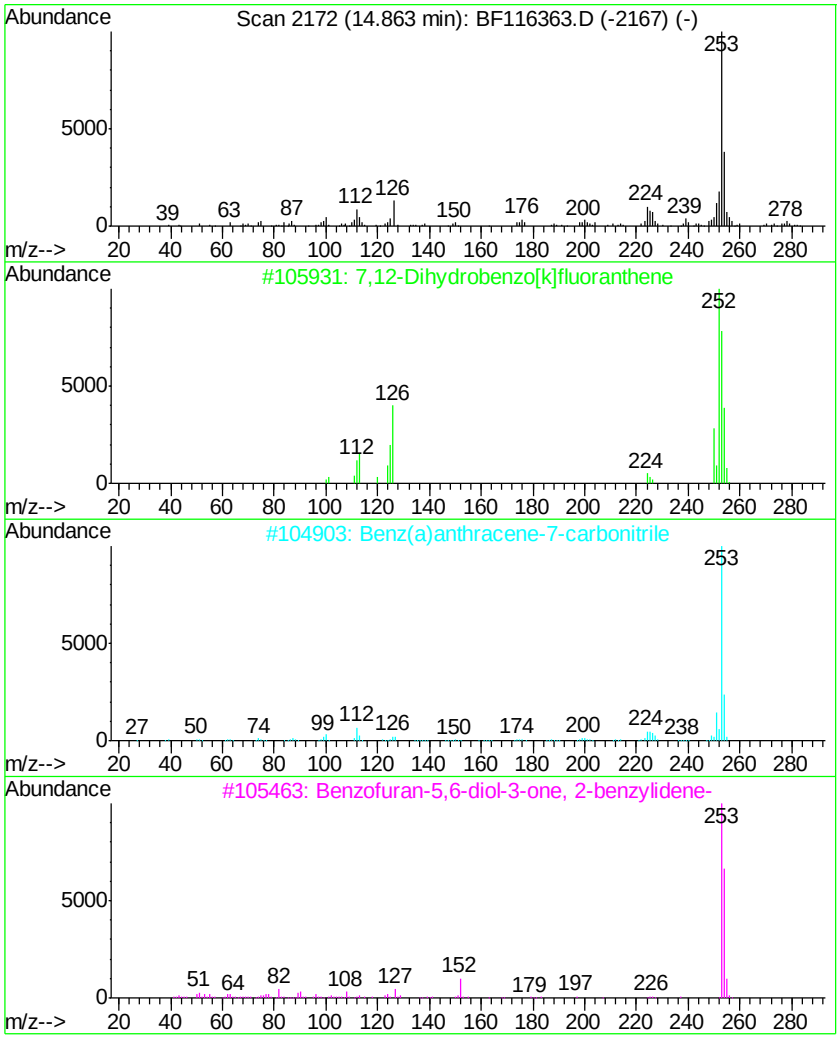
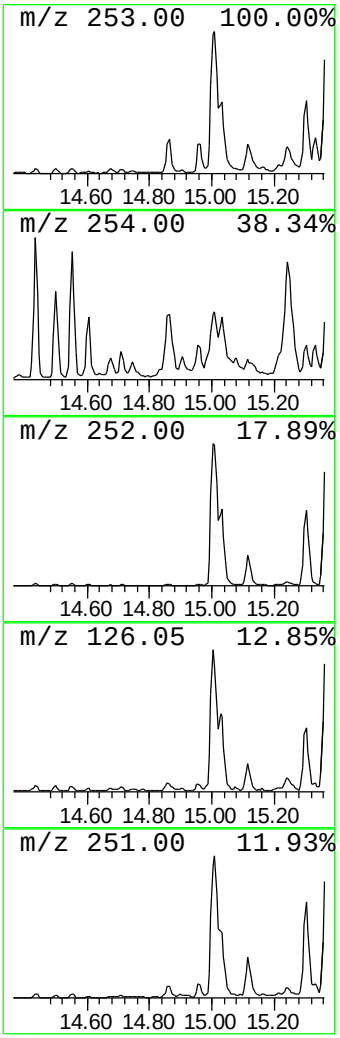
Peak Number 14 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	3.63 ng	159652	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	64
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	55
3	Benzofuran-5,6-diol-3-one, 2-ben...	254	C15H10O4	1000128-65-2	50
4	Ergoline-8-methanol, 8,9-didehyd...	254	C16H18N2O	000548-43-6	42
5	1H-Pyrrolo[2,3-f]quinolin-9-ol, ...	254	C16H18N2O	1000303-71-9	40





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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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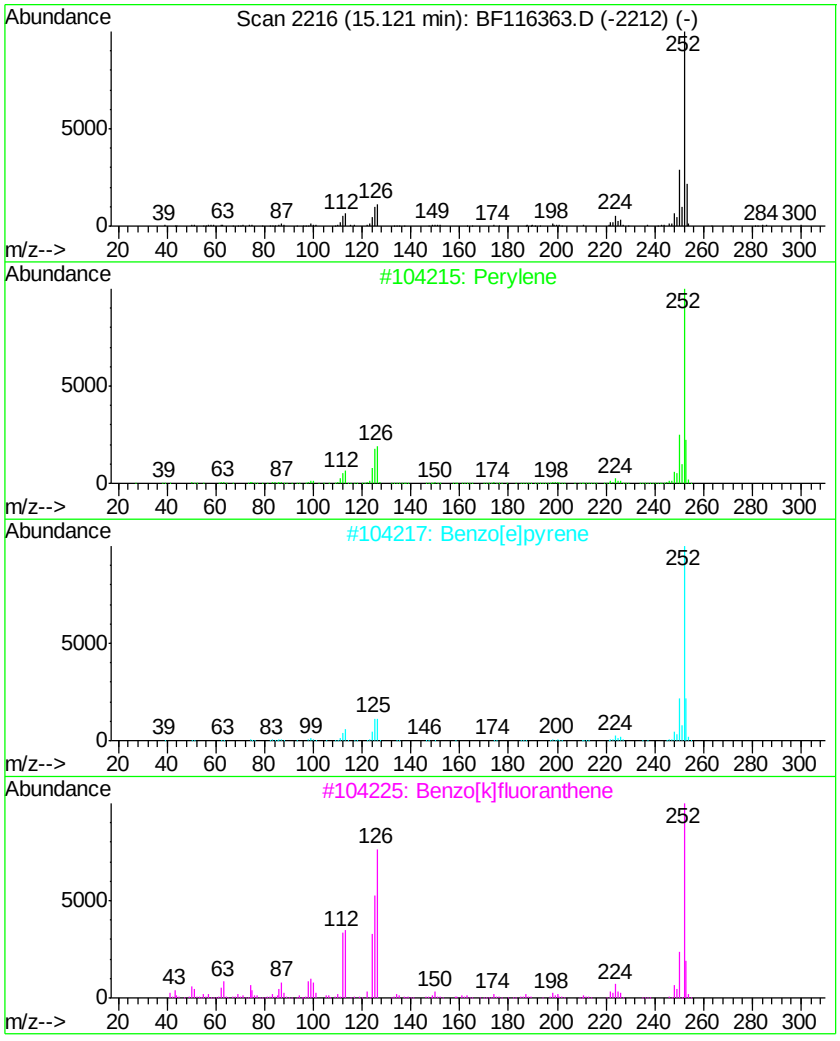
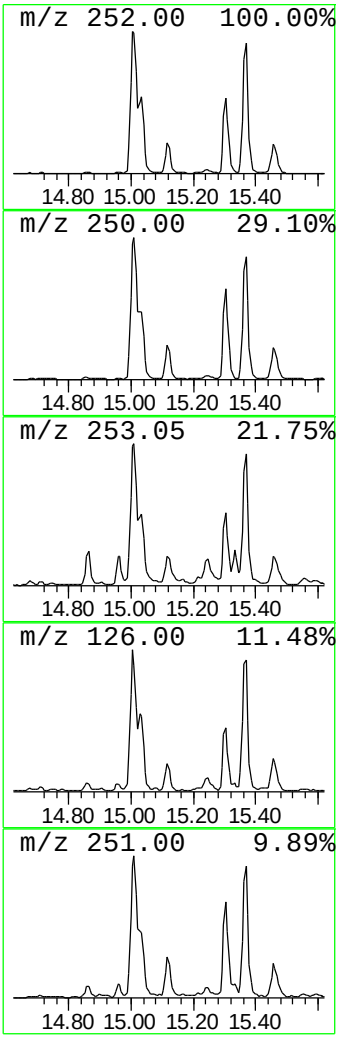
Peak Number 15 Perylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	6.47 ng	284266	Perylene-d12	15.43

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





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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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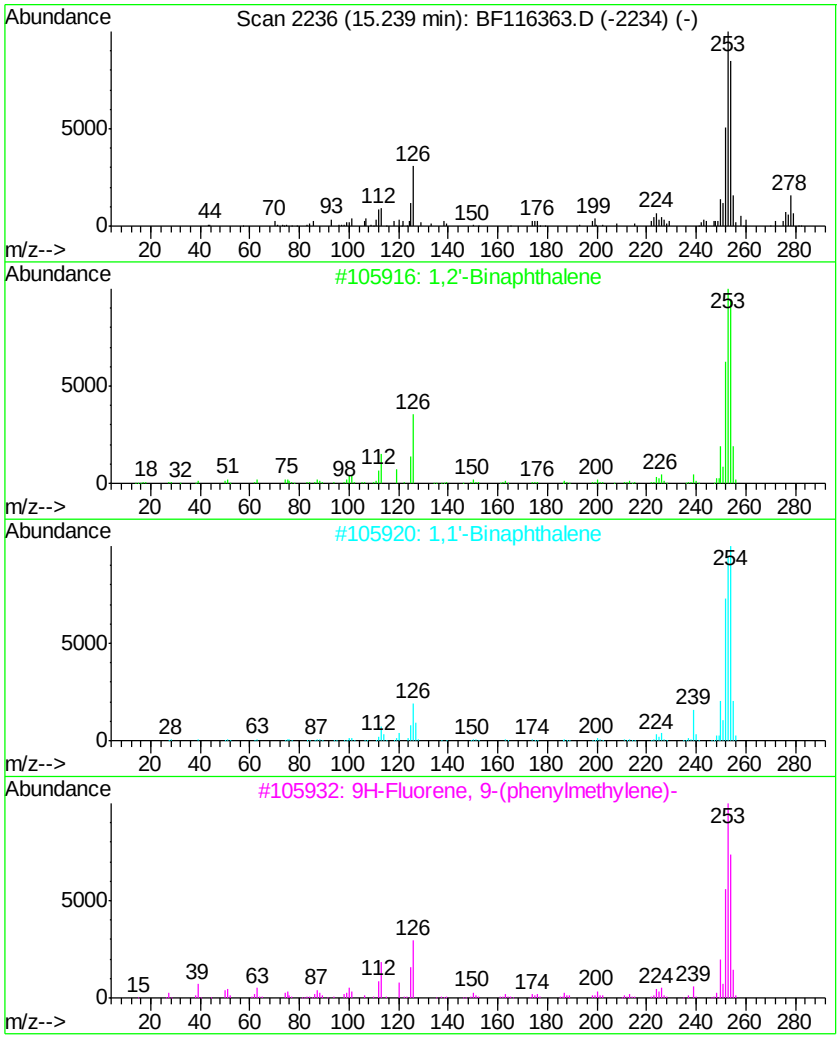
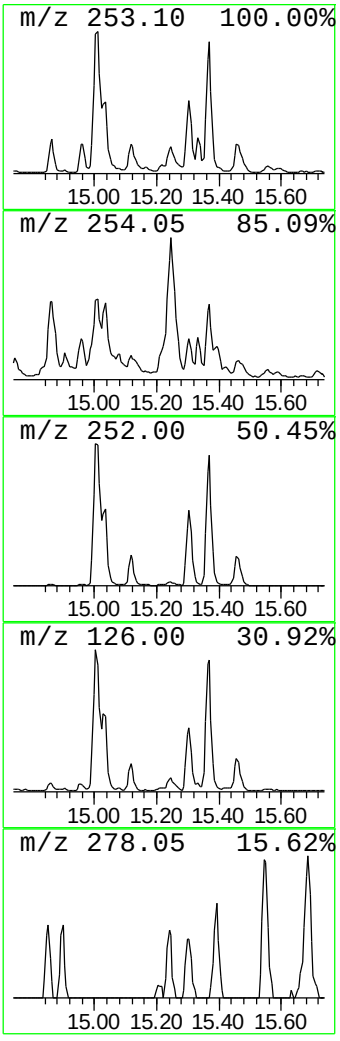
Peak Number 16 1,2'-Binaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	5.19 ng	228097	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2'-Binaphthalene	254	C20H14	004325-74-0	92
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	92
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	86
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	83
5	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	83





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

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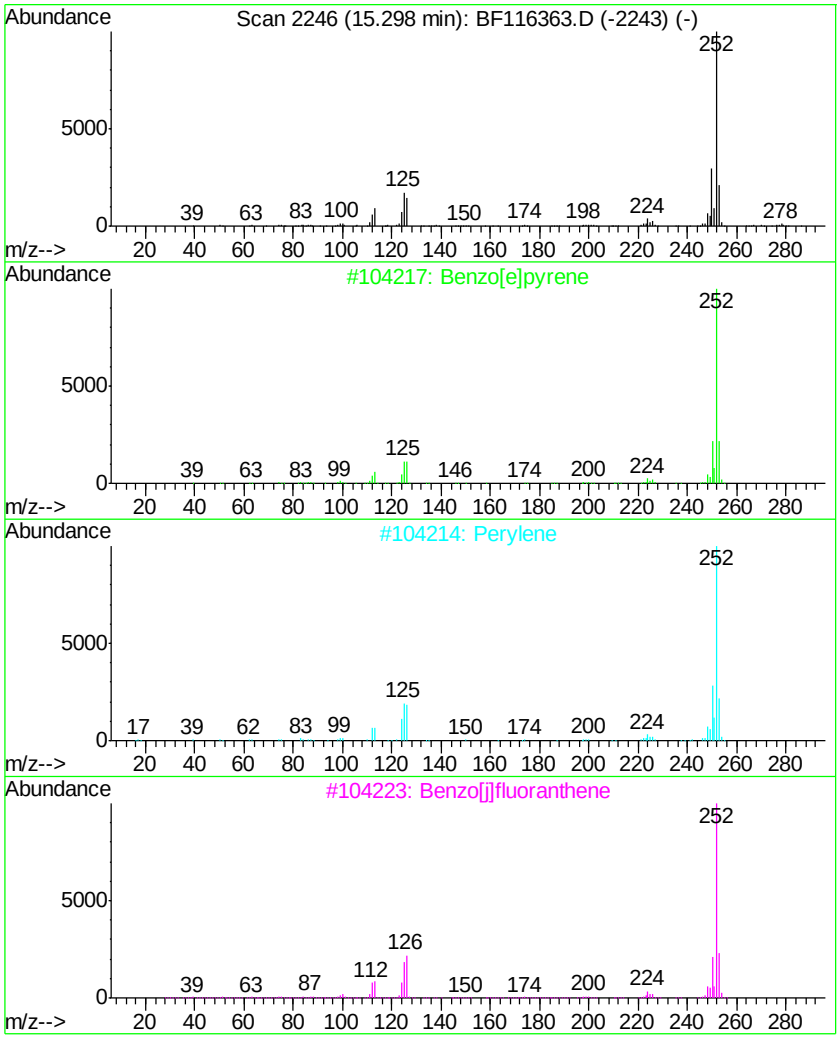
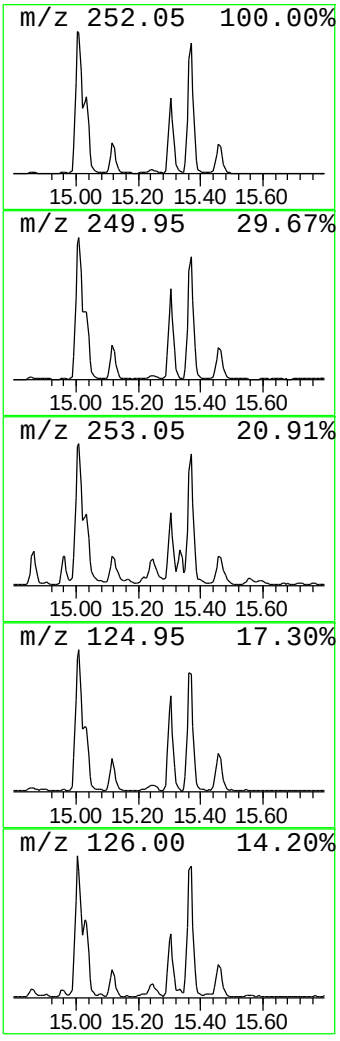
Peak Number 17 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.30	19.94 ng	876012	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	97
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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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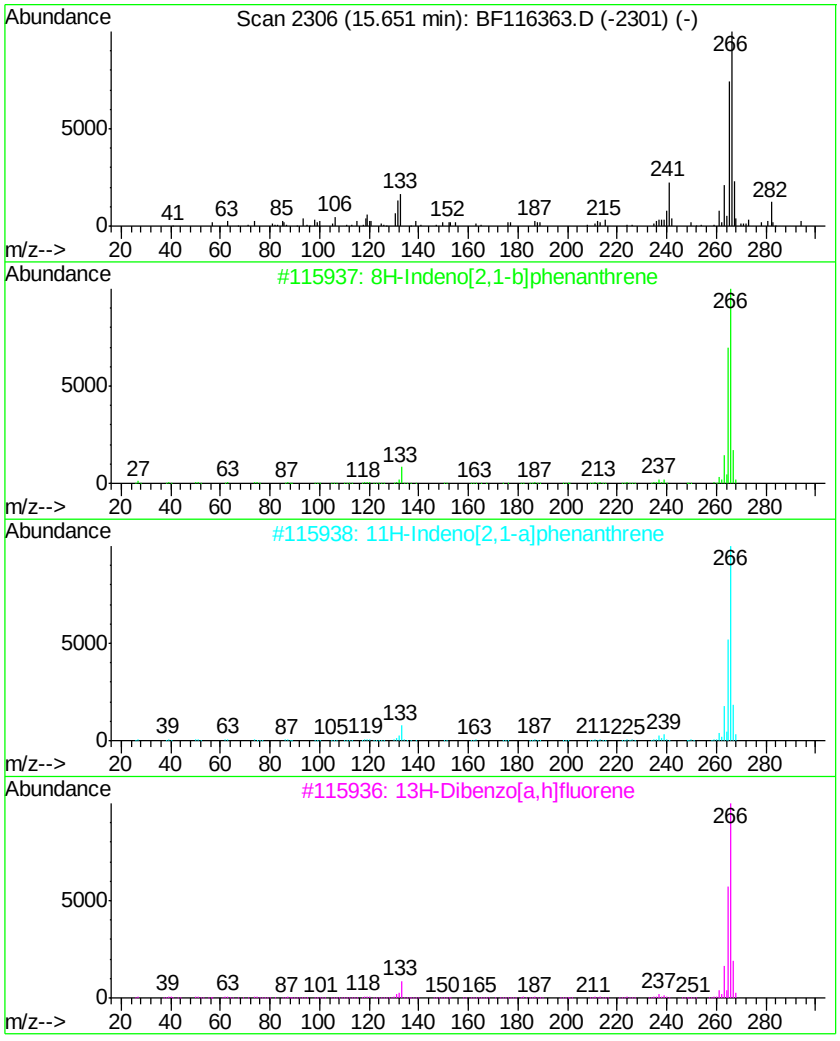
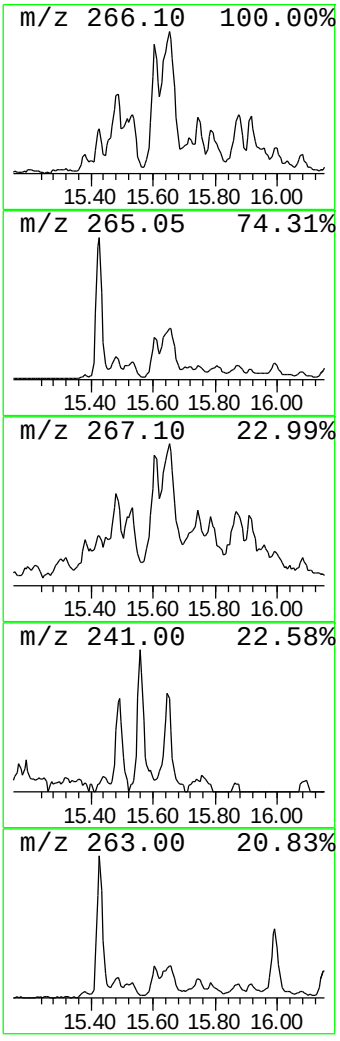
Peak Number 18 8H-Indeno[2,1-b]phenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.65	4.73 ng	207605	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	87
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	76
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	76
4	4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	58
5	1-Methyl-4-oxy-5-phenyl-1,3-dihy...	266	C16H14N2O2	1000286-08-5	58





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Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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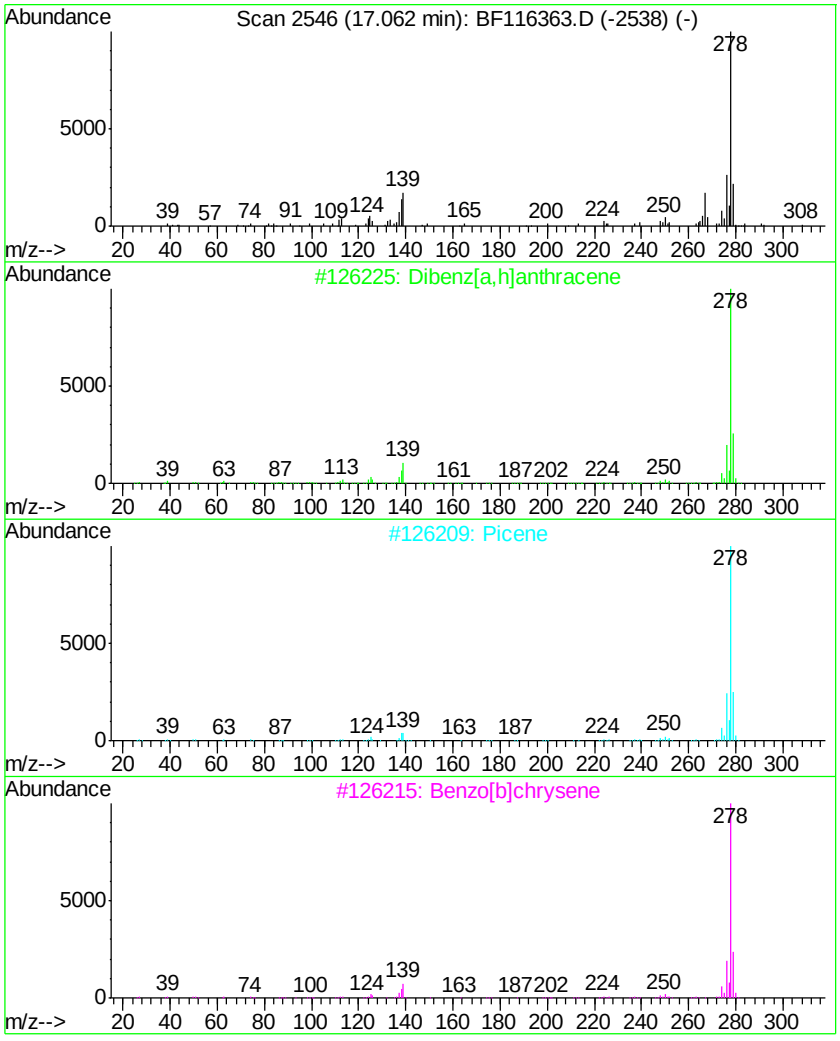
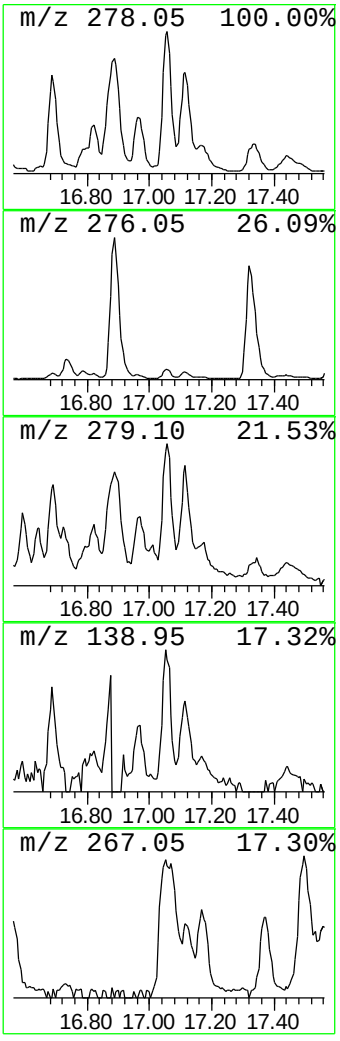
Peak Number 19 Picene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.06	5.09 ng	223540	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
2	Picene	278	C22H14	000213-46-7	93
3	Benzo[b]chrysene	278	C22H14	000214-17-5	86
4	Pentacene	278	C22H14	000135-48-8	86
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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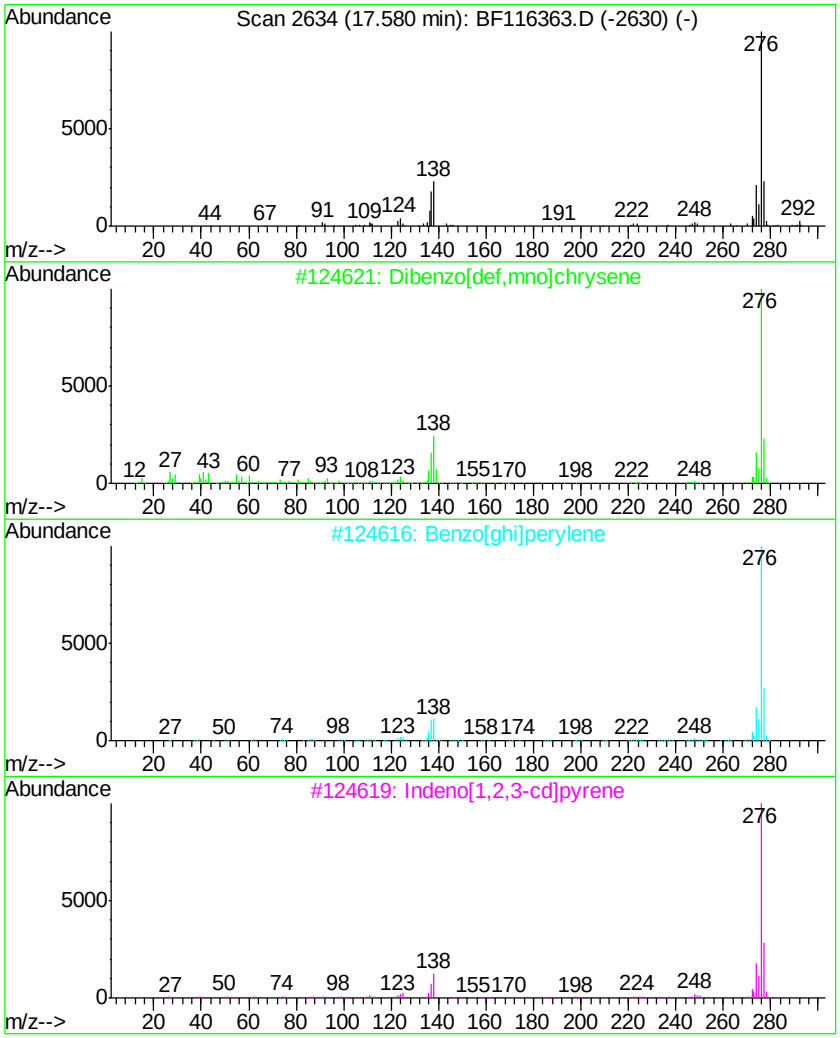
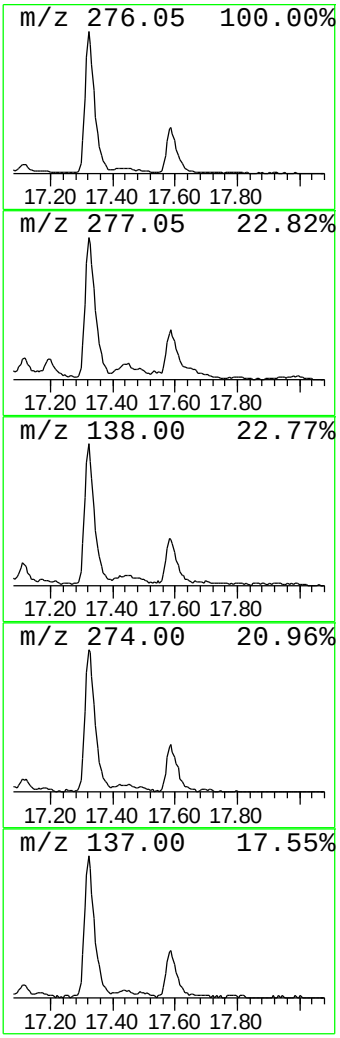
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.58	4.90 ng	215408	Perylene-d12	15.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	50
5	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF081719\
Data File : BF116363.D
Acq On : 17 Aug 2019 17:52
Operator : HP/JU
Sample : K4228-02
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 2S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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
unknown6.58	6.58	67.5	ng	2905780	1	6.81	860959	20.0
9H-Fluorene, 2-me...	10.94	3.6	ng	253669	4	11.33	1404800	20.0
Dibenzothiophene	11.23	6.1	ng	430940	4	11.33	1404800	20.0
Phenanthrene, 1-m...	11.83	8.1	ng	570853	4	11.33	1404800	20.0
Phenanthrene, 2-m...	11.86	10.9	ng	768848	4	11.33	1404800	20.0
Anthracene, 1-met...	11.90	4.5	ng	314120	4	11.33	1404800	20.0
4H-Cyclopenta[def...	11.94	16.9	ng	1183580	4	11.33	1404800	20.0
Anthracene, 2-met...	11.96	4.5	ng	314595	4	11.33	1404800	20.0
Naphthalene, 2-ph...	12.12	5.6	ng	392017	4	11.33	1404800	20.0
Phenanthrene, 2,5...	12.38	5.2	ng	367627	4	11.33	1404800	20.0
11H-Benzo[b]fluorene	13.10	3.9	ng	684368	5	13.97	3470520	20.0
Pyrene, 1-methyl-	13.17	3.9	ng	677278	5	13.97	3470520	20.0
7,12-Dihydrobenzo...	14.86	3.6	ng	159652	6	15.43	878726	20.0
Perylene	15.12	6.5	ng	284266	6	15.43	878726	20.0
1,2'-Binaphthalene	15.24	5.2	ng	228097	6	15.43	878726	20.0
Benzo[e]pyrene	15.30	19.9	ng	876012	6	15.43	878726	20.0
8H-Indeno[2,1-b]p...	15.65	4.7	ng	207605	6	15.43	878726	20.0
Picene	17.06	5.1	ng	223540	6	15.43	878726	20.0
Dibenzo[def,mno]c...	17.58	4.9	ng	215408	6	15.43	878726	20.0