LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
Data File : BF108303.D
Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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-BF080818.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	5.637	557	561	572	rVB	354046	309761	2.57%	0.257%
2	6.631	726	730	734	rBV	330569	330675	2.74%	0.275%
3	6.784	752	756	762	rBV	389846	341940	2.83%	0.284%
4	7.019	792	796	799	rBV	1139146	1046353	8.67%	0.869%
5	7.172	818	822	826	rBV	331689	274253	2.27%	0.228%
6	7.572	887	890	896	rBV	216224	195169	1.62%	0.162%
7	8.301	1009	1014	1016	rBV	1592134	1304092	10.81%	1.084%
8	8.325	1016	1018	1024	rVB	316033	270823	2.24%	0.225%
9	9.013	1131	1135	1139	rBV	357293	293089	2.43%	0.244%
10	9.113	1147	1152	1155	rBV	372583	301619	2.50%	0.251%
11	9.372	1192	1196	1203	rVB	438774	365822	3.03%	0.304%
12	9.642	1237	1242	1246	rBV	246871	329904	2.73%	0.274%
13	9.713	1250	1254	1257	rBV	409183	423529	3.51%	0.352%
14	9.925	1286	1290	1295	rBV2	413161	394256	3.27%	0.328%
15	10.066	1311	1314	1316	rVV	1390746	1220352	10.11%	1.014%
16	10.095	1316	1319	1322	rVB	1676011	1345527	11.15%	1.118%
17	10.266	1344	1348	1351	rVV2	851921	857014	7.10%	0.712%
18	10.377	1363	1367	1369	rBV2	184058	202461	1.68%	0.168%
19	10.466	1378	1382	1384	rBV2	153556	198726	1.65%	0.165%
20	10.613	1403	1407	1412	rVV	1715697	1508987	12.51%	1.254%
21	10.701	1420	1422	1424	rVV	228779	198995	1.65%	0.165%
22	10.766	1428	1433	1437	rVV2	458793	535140	4.43%	0.445%
23	10.848	1441	1447	1452	rVV2	565261	756623	6.27%	0.629%
24	11.160	1494	1500	1503	rBV3	385360	506369	4.20%	0.421%
25	11.289	1517	1522	1524	rBV4	221534	310216	2.57%	0.258%
26	11.313	1524	1526	1531	rVV2	246104	302748	2.51%	0.252%
27	11.366	1531	1535	1538	rVV	659029	607504	5.03%	0.505%
28	11.401	1538	1541	1548	rVV3	272959	390343	3.23%	0.324%
29	11.454	1548	1550	1555	rVB	674371	662601	5.49%	0.551%
30	11.566	1564	1569	1570	rBV	1039582	1139830	9.45%	0.947%
31	11.601	1570	1575	1577	rVV	7395607	8920271	73.92%	7.412%
32	11.642	1577	1582	1585	rVV	3390119	3040709	25.20%	2.527%
33	11.672	1585	1587	1592	rVV	198370	202880	1.68%	0.169%
34	11.789	1601	1607	1611	rBV2	781398	879864	7.29%	0.731%

LSC Area Percent Report

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Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.854	1615	1618	1622	rVV2	273589	278285	2.31%	0.231%
36	11.895	1622	1625	1629	rVB3	265115	285224	2.36%	0.237%
37	12.066	1648	1654	1656	rVV	1301493	1207660	10.01%	1.003%
38	12.095	1656	1659	1662	rVB	1810503	1522351	12.62%	1.265%
39	12.142	1662	1667	1670	rBV	793484	697433	5.78%	0.580%
40	12.183	1670	1674	1680	rVB3	2301507	3103382	25.72%	2.579%
41	12.360	1700	1704	1706	rBV	969465	883879	7.32%	0.734%
42	12.389	1706	1709	1713	rVB	750271	633907	5.25%	0.527%
43	12.507	1724	1729	1732	rBV	282749	307247	2.55%	0.255%
44	12.536	1732	1734	1736	rVV	267151	212724	1.76%	0.177%
45	12.566	1736	1739	1741	rVB	221998	204449	1.69%	0.170%
46	12.613	1741	1747	1750	rBV	581177	731129	6.06%	0.608%
47	12.654	1750	1754	1756	rVV3	317302	488683	4.05%	0.406%
48	12.713	1760	1764	1768	rVB2	650841	787556	6.53%	0.654%
49	12.801	1772	1779	1782	rBV	8016364	11998453	99.43%	9.970%
50	12.848	1785	1787	1790	rVB	366172	292935	2.43%	0.243%
51	12.942	1795	1803	1805	rBV2	492178	789275	6.54%	0.656%
52	13.036	1810	1819	1821	rBV2	7437767	12066951	100.00%	10.027%
53	13.060	1821	1823	1828	rVB2	627856	603400	5.00%	0.501%
54	13.136	1828	1836	1840	rBV2	796827	1164977	9.65%	0.968%
55	13.171	1840	1842	1846	rVB	541214	539555	4.47%	0.448%
56	13.236	1847	1853	1856	rBV3	718928	1294556	10.73%	1.076%
57	13.318	1863	1867	1868	rBV3	530994	618385	5.12%	0.514%
58	13.342	1868	1871	1874	rVB	1650420	1617354	13.40%	1.344%
59	13.407	1879	1882	1885	rBV	1188719	1106442	9.17%	0.919%
60	13.448	1885	1889	1892	rVV2	877596	1081572	8.96%	0.899%
61	13.471	1892	1893	1896	rVB	310175	205732	1.70%	0.171%
62	13.542	1902	1905	1907	rBV	511398	409622	3.39%	0.340%
63	13.571	1907	1910	1913	rVV2	511599	454225	3.76%	0.377%
64	13.742	1937	1939	1941	rVV2	192172	214743	1.78%	0.178%
65	13.824	1950	1953	1955	rBV	217914	225572	1.87%	0.187%
66	13.854	1955	1958	1962	rVV	877300	836375	6.93%	0.695%
67	13.965	1972	1977	1980	rBV2	1029076	1205495	9.99%	1.002%
68	13.995	1980	1982	1984	rVV	990388	821120	6.80%	0.682%
69	14.024	1984	1987	1990	rVV2	922037	1182701	9.80%	0.983%
70	14.065	1990	1994	1998	rVB2	877708	901817	7.47%	0.749%
71	14.136	2001	2006	2011	rBV	286436	459858	3.81%	0.382%

LSC Area Percent Report

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Sample : J4274-03 10X
Misc :
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Instrument : BNA_F
ClientSampleId : HD-02-081718

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
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72	14.218	2012	2020	2023	rBV3	4831258	7234213	59.95%	6.011%
73	14.254	2023	2026	2032	rVB	3968614	4568951	37.86%	3.796%
74	14.330	2036	2039	2043	rVV	1147684	1088874	9.02%	0.905%
75	14.365	2043	2045	2048	rVV2	425853	471005	3.90%	0.391%
76	14.407	2050	2052	2055	rVV	403235	392575	3.25%	0.326%
77	14.442	2055	2058	2061	rVV2	582547	683529	5.66%	0.568%
78	14.536	2071	2074	2076	rVV3	157556	207479	1.72%	0.172%
79	14.565	2076	2079	2081	rVV2	297123	382454	3.17%	0.318%
80	14.607	2081	2086	2089	rVV	841249	1102681	9.14%	0.916%
81	14.642	2089	2092	2096	rVB	408627	430006	3.56%	0.357%
82	14.707	2101	2103	2106	rVV	365016	437401	3.62%	0.363%
83	14.742	2106	2109	2110	rVV	505197	518684	4.30%	0.431%
84	14.760	2110	2112	2116	rVV4	513179	620528	5.14%	0.516%
85	14.807	2116	2120	2127	rVB3	323450	555275	4.60%	0.461%
86	15.030	2154	2158	2161	rBV3	125223	215544	1.79%	0.179%
87	15.142	2172	2177	2184	rVB2	314525	506255	4.20%	0.421%
88	15.330	2202	2209	2212	rBV	2642906	5228125	43.33%	4.344%
89	15.436	2223	2227	2231	rVB	626184	712934	5.91%	0.592%
90	15.530	2240	2243	2245	rBV2	181599	244309	2.02%	0.203%
91	15.660	2259	2265	2271	rVB	1558295	2436845	20.19%	2.025%
92	15.736	2271	2278	2281	rBV	2323663	3392831	28.12%	2.819%
93	15.789	2283	2287	2290	rVV	478534	736807	6.11%	0.612%
94	15.830	2290	2294	2299	rVB	867639	1215248	10.07%	1.010%
95	16.407	2389	2392	2397	rVB	151896	205970	1.71%	0.171%
96	17.430	2558	2566	2574	rVB2	1028568	2292076	18.99%	1.905%
97	17.618	2593	2598	2603	rVB	199640	357264	2.96%	0.297%
98	17.677	2604	2608	2614	rVB2	126574	256428	2.13%	0.213%
99	17.930	2643	2651	2662	rVB	698107	1770172	14.67%	1.471%
100	18.189	2688	2695	2711	rVB2	232102	681781	5.65%	0.566%

Sum of corrected areas: 120349713

LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
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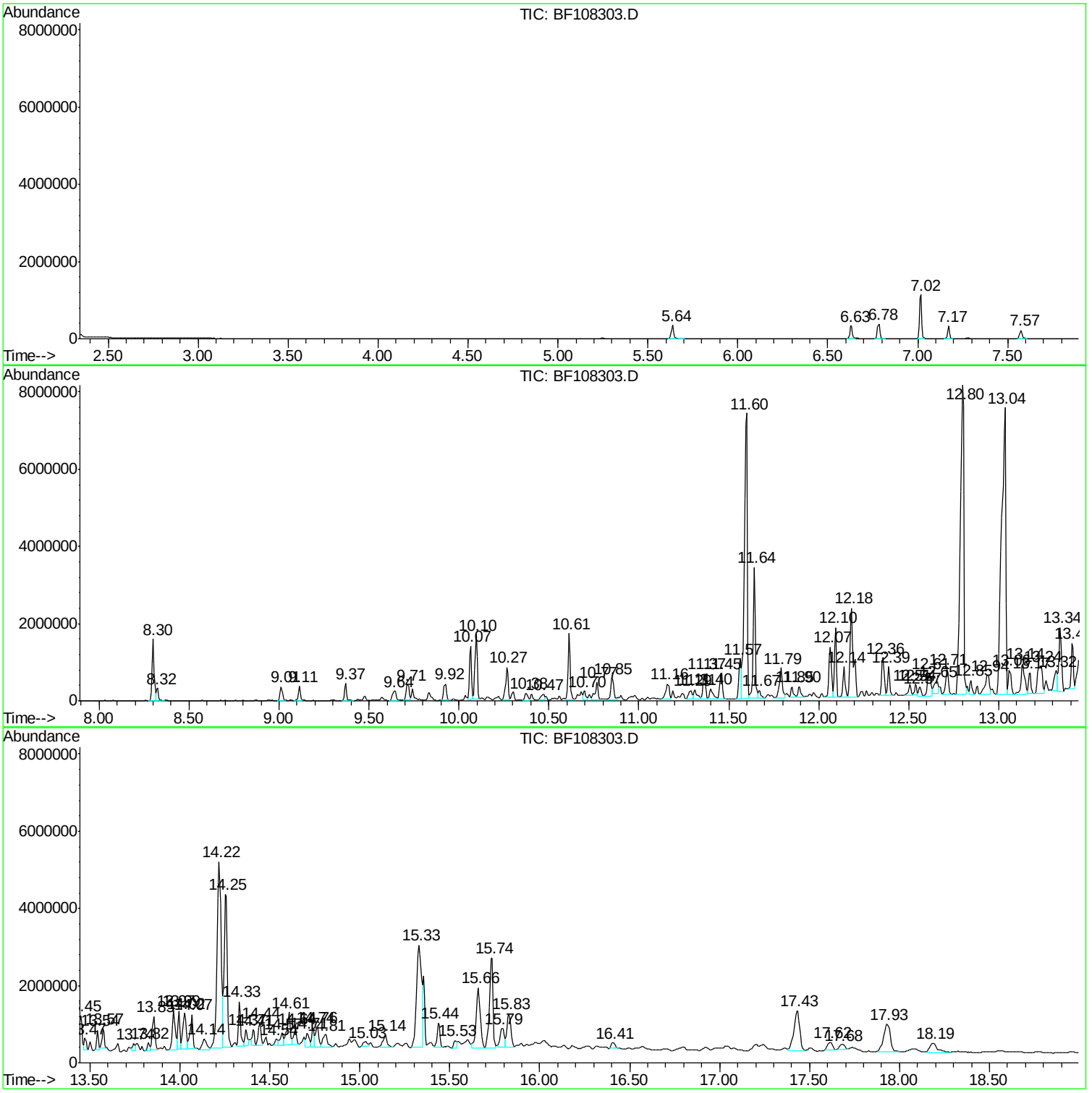
Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.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\BF082018\
Data File : BF108303.D
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Sample : J4274-03 10X
Misc :
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Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

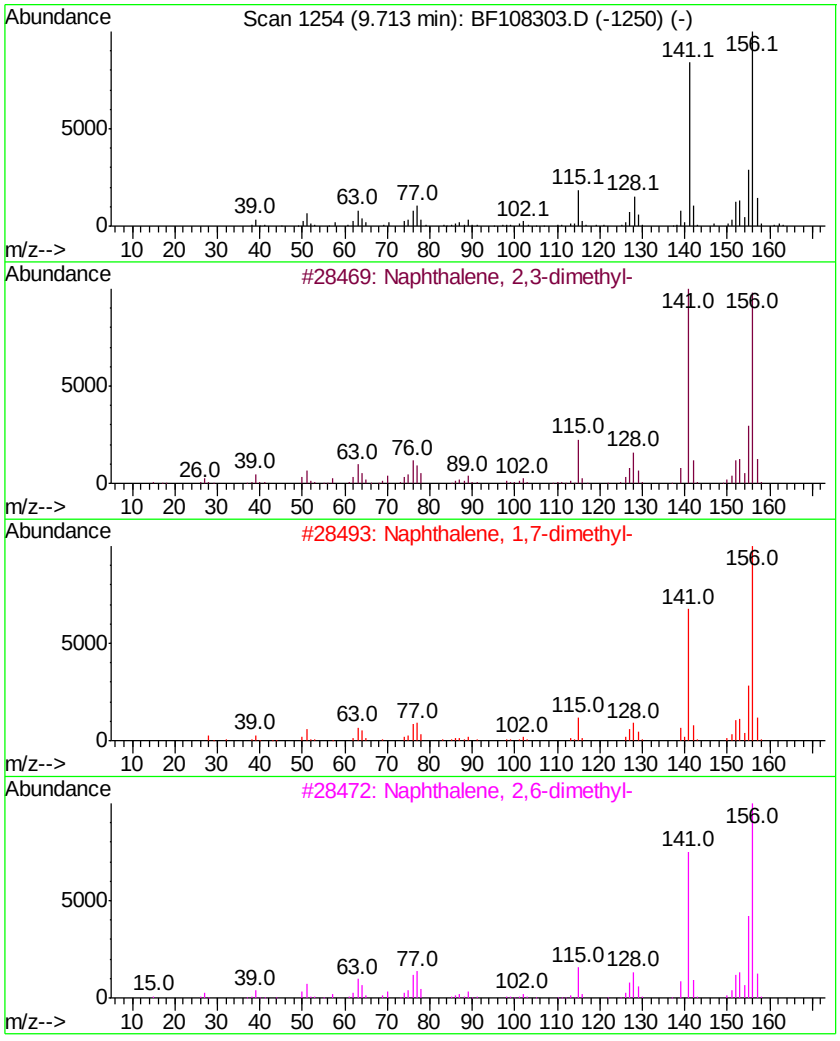
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

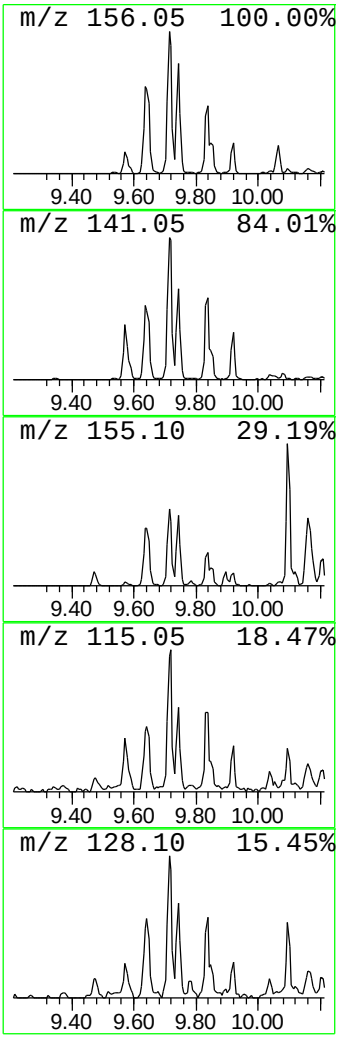
****

Peak Number 1 Naphthalene, 2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.71	6.94 ng	423529	Acenaphthene-d10	10.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97





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Misc :
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Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

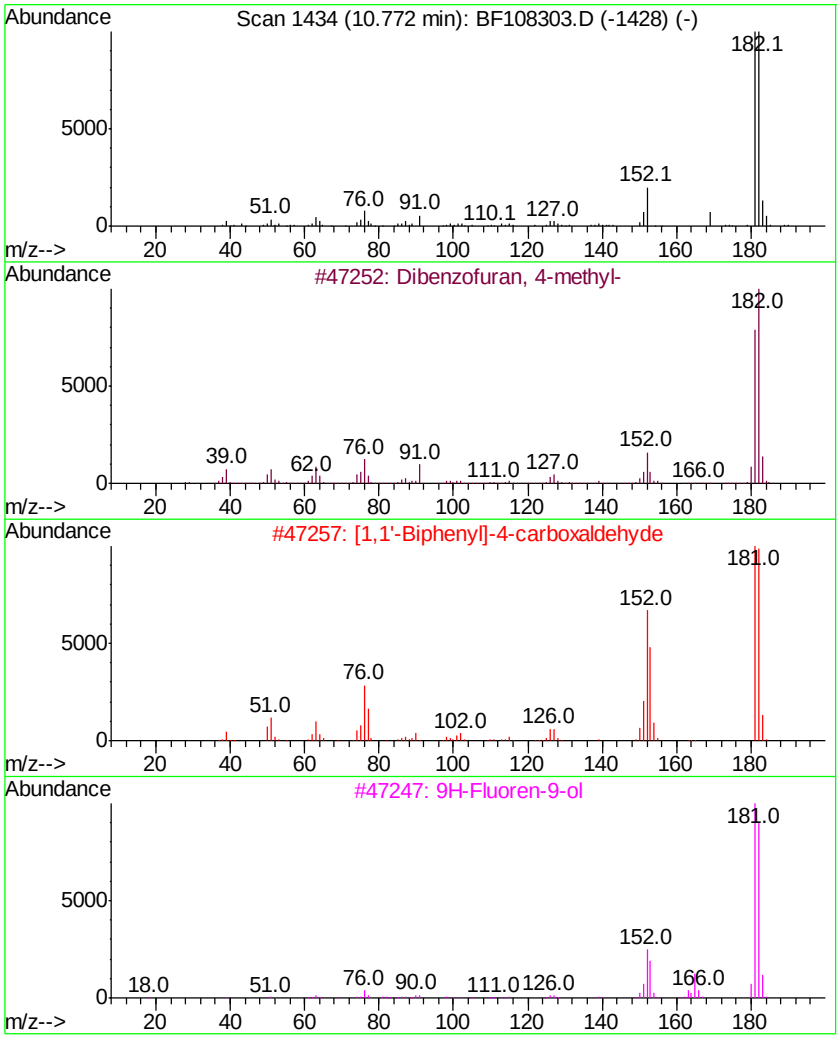
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

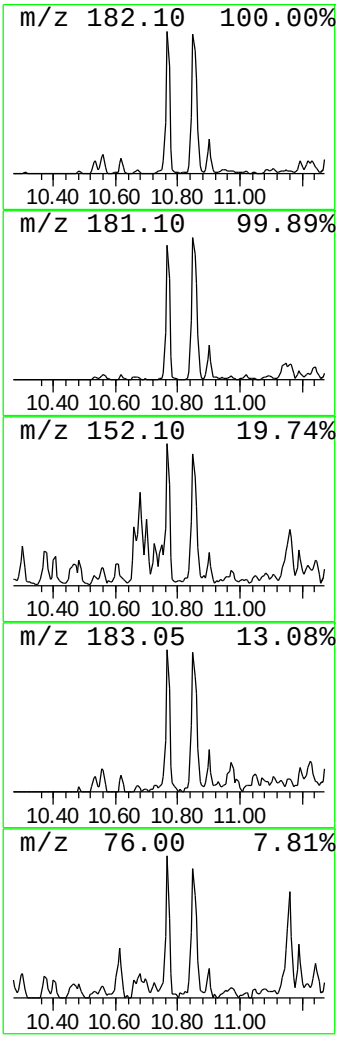
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.77	8.77 ng	535140	Acenaphthene-d10	10.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	90
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
5	9H-Xanthene	182	C13H10O	000092-83-1	60





Library Search Compound Report

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
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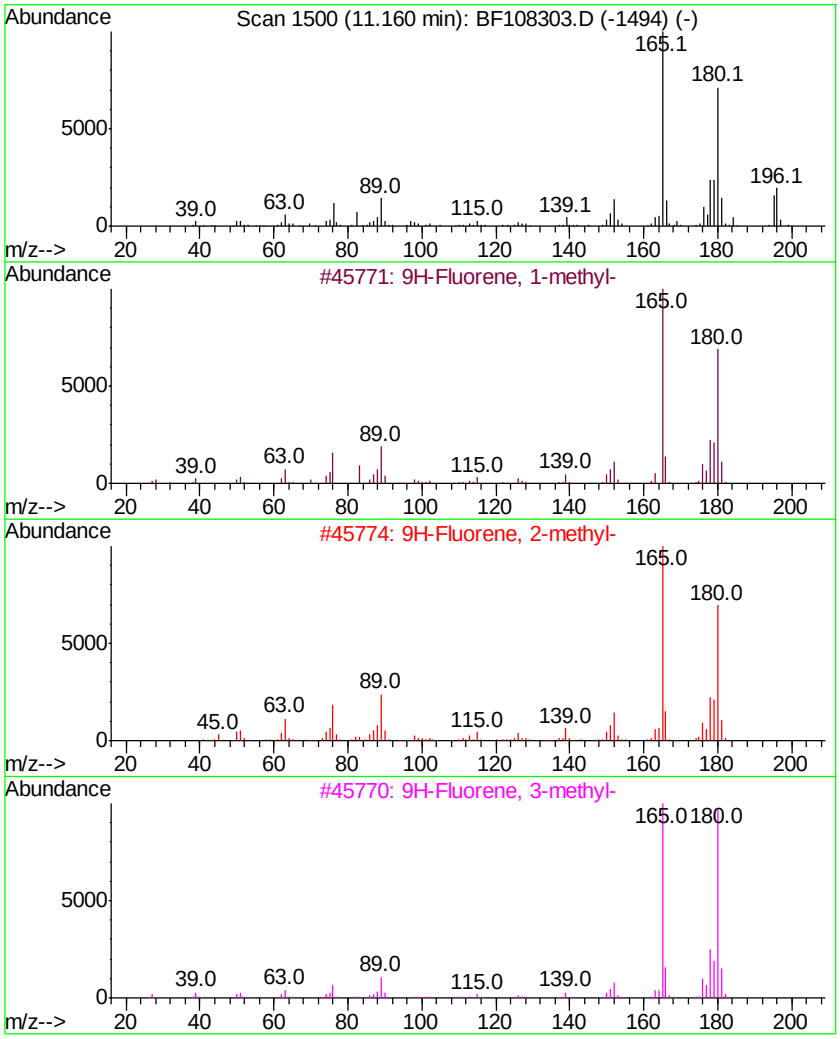
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

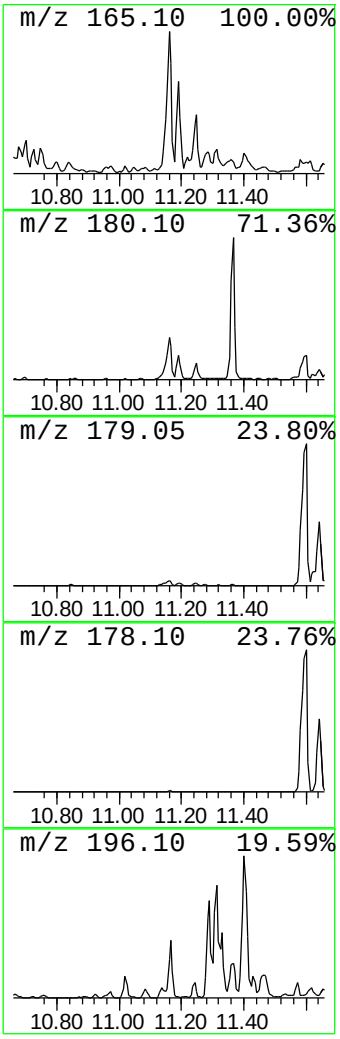
****

Peak Number 3 9H-Fluorene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.16	8.88 ng	506369	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	92
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	86
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	64





Library Search Compound Report

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Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
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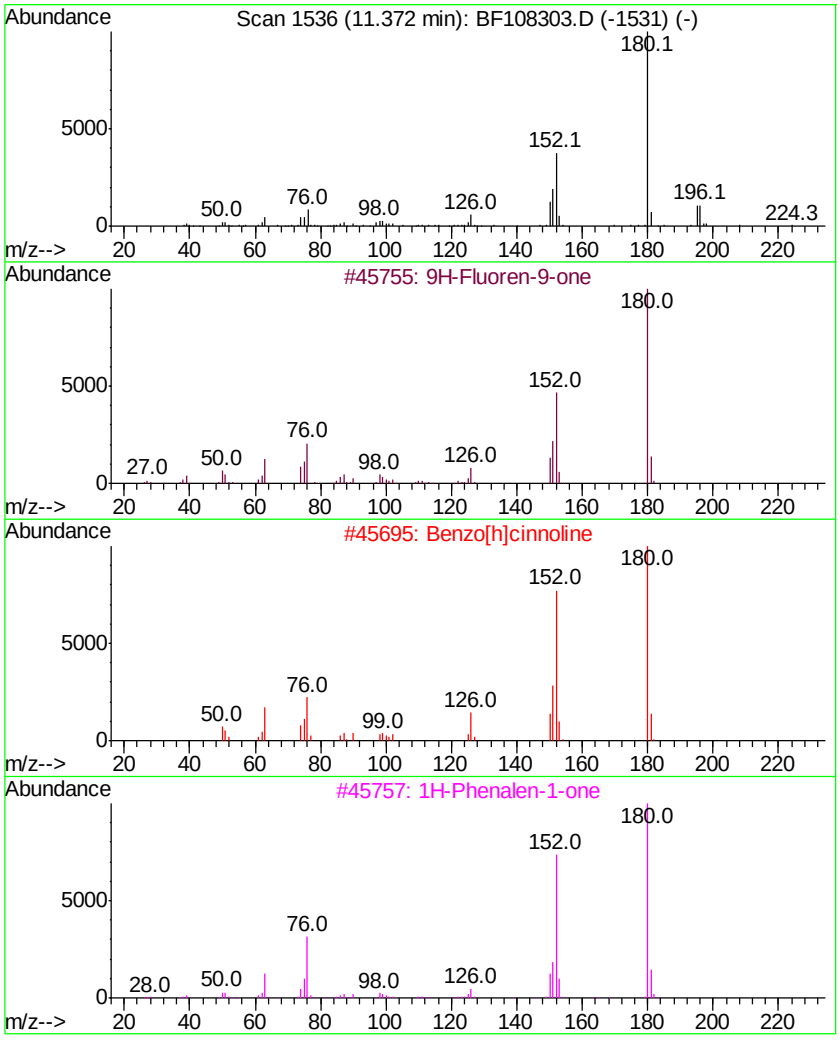
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

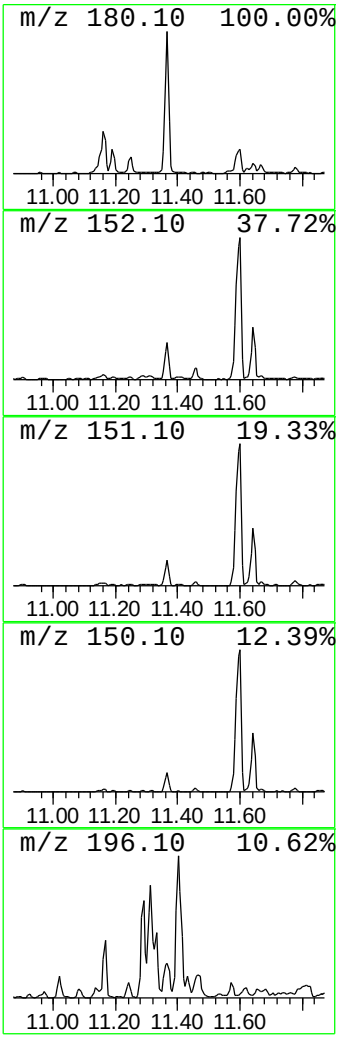
****

Peak Number 4 9H-Fluoren-9-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	10.66 ng	607504	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	72
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	1,3-Diazaphenanthrene	180	C12H8N2	000229-75-4	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
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Sample : J4274-03 10X
Misc :
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Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

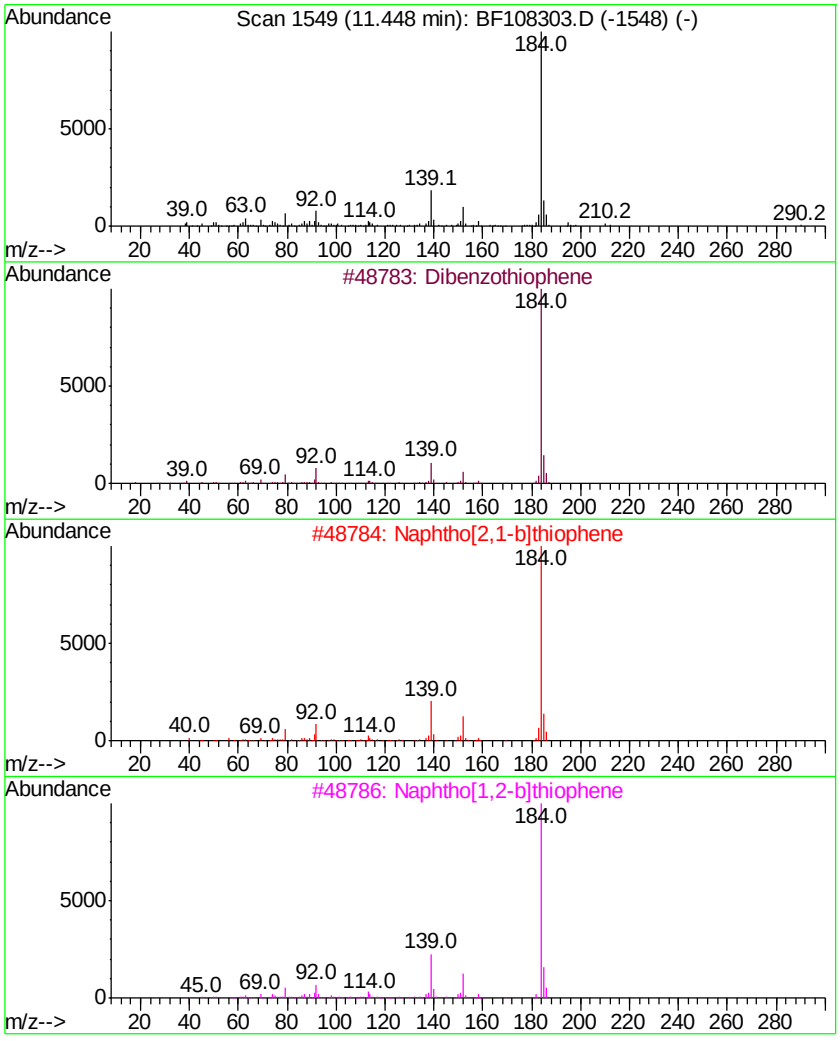
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

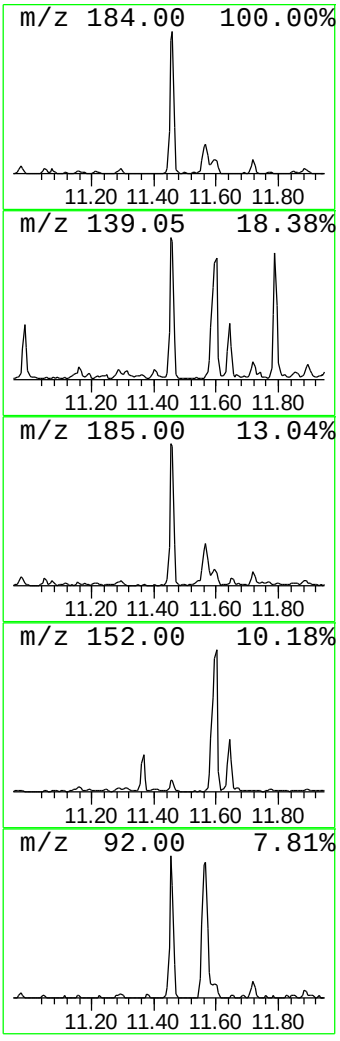
****

Peak Number 5 Dibenzothiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.45	11.63 ng	662601	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

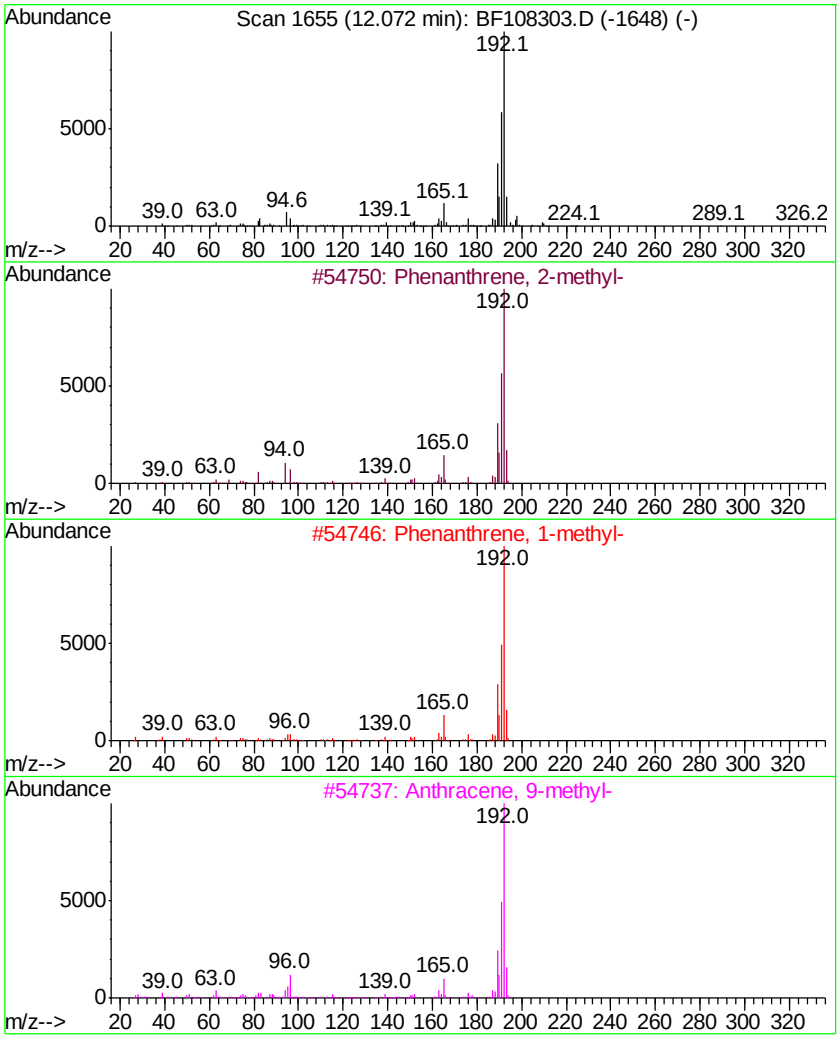
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

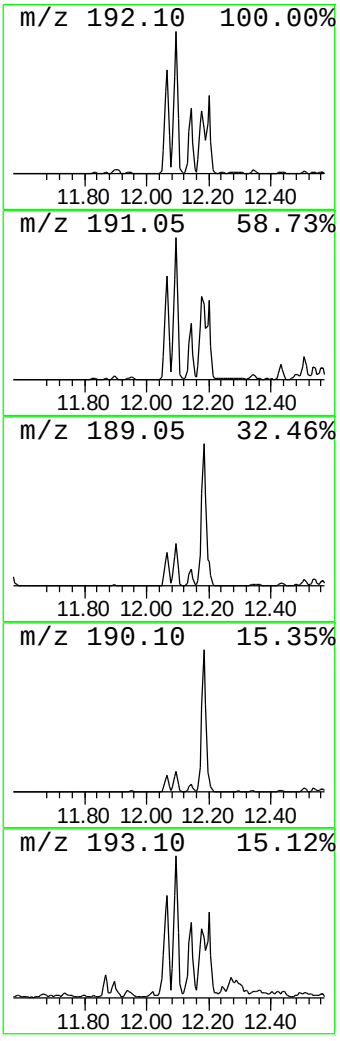
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	21.19 ng	1207660	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90





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Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

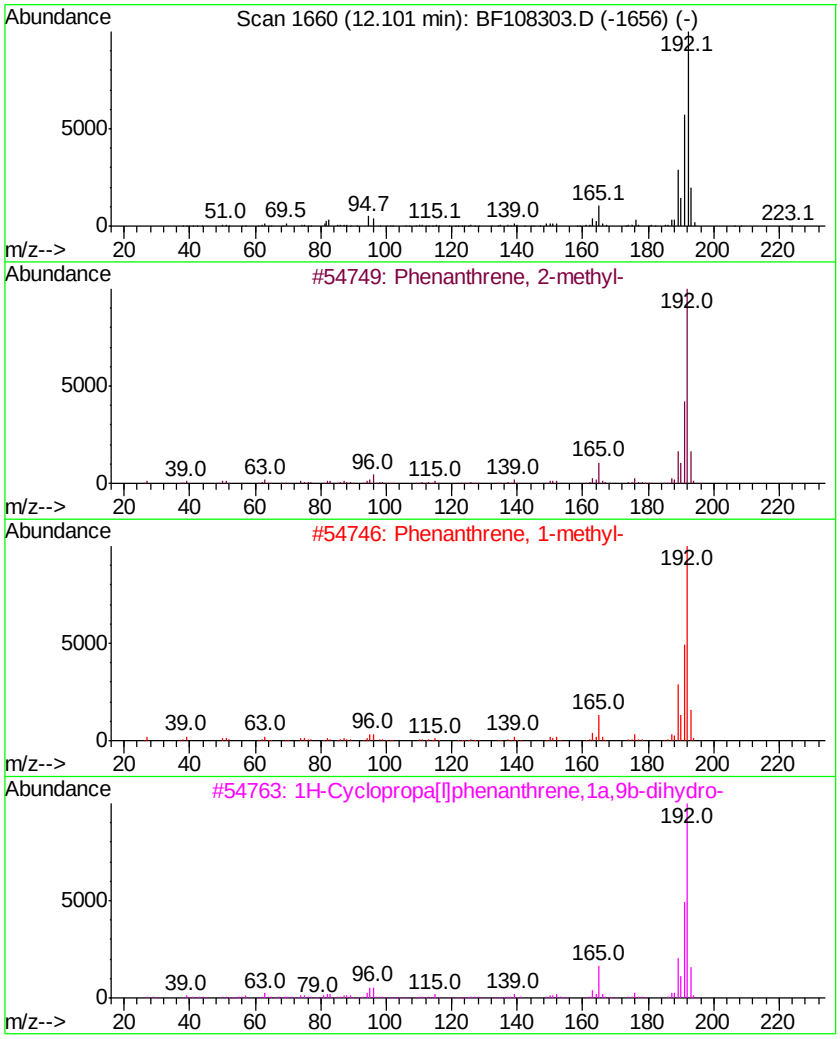
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

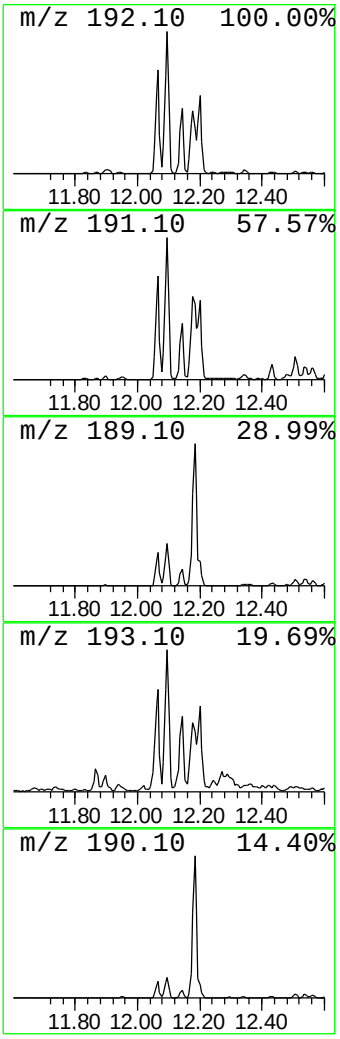
****

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.10	26.71 ng	1522350	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94





Library Search Compound Report

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Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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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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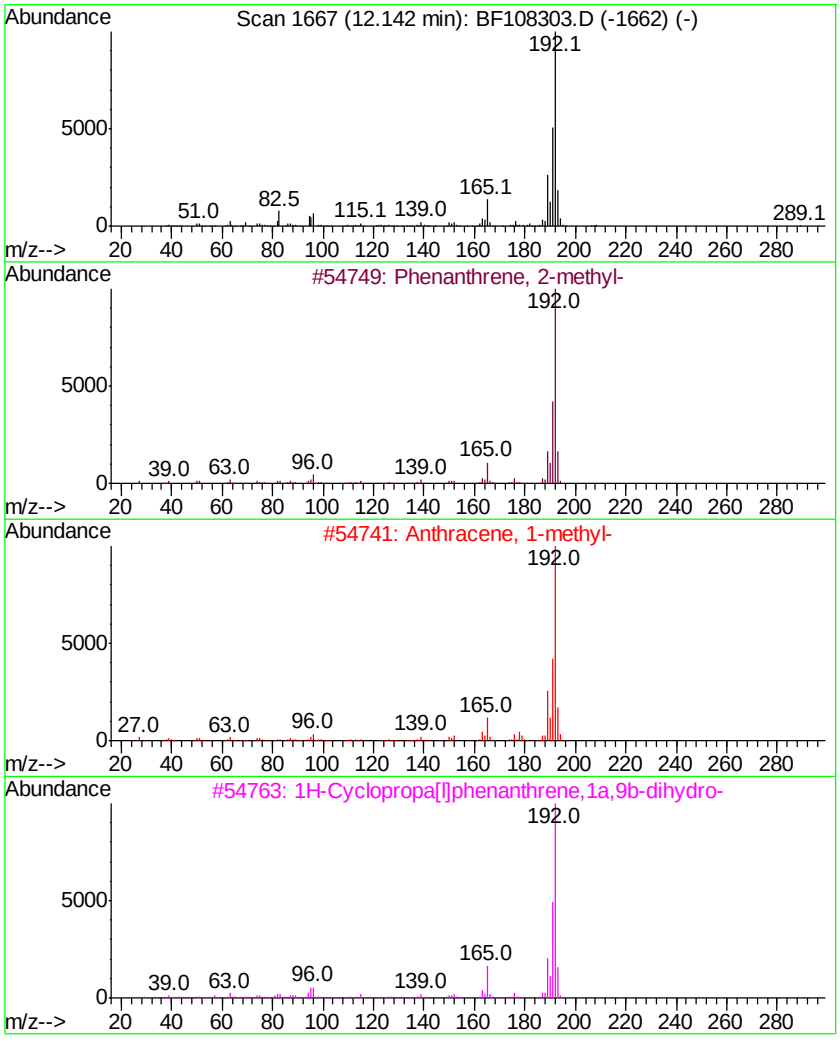
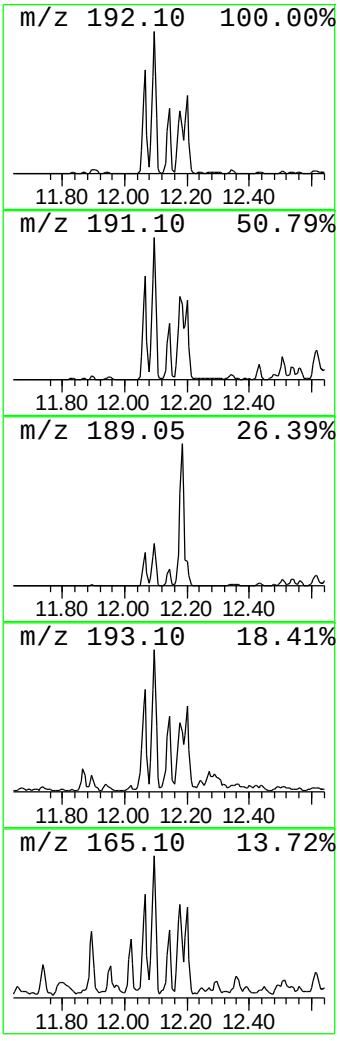
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	12.24 ng	697433	Phenanthrene-d10	11.57

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	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94





Library Search Compound Report

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Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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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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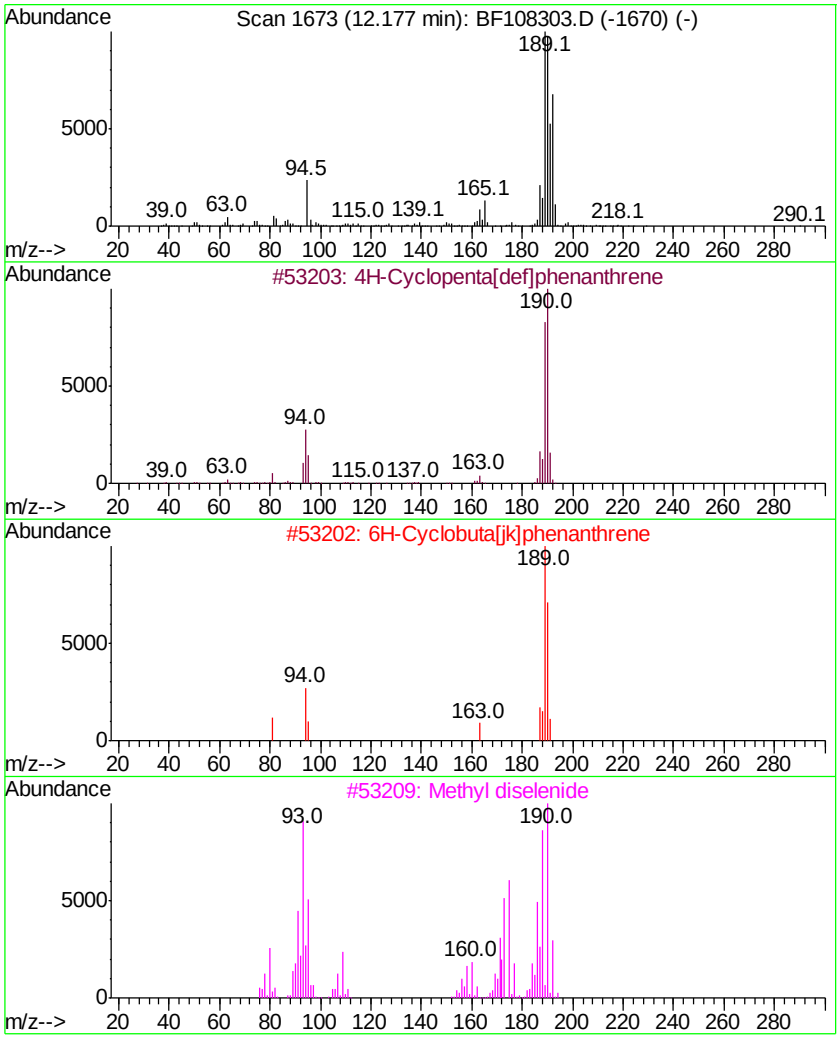
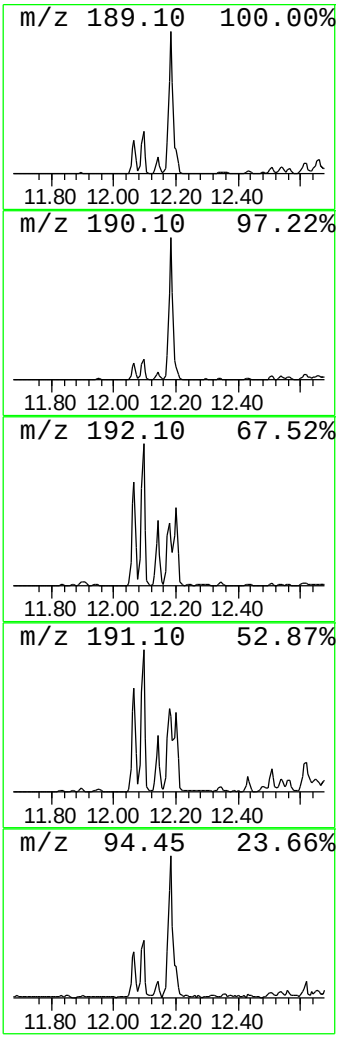
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	54.45 ng	3103380	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Methyl diselenide	190	C2H6Se2	007101-31-7	55
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





Library Search Compound Report

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Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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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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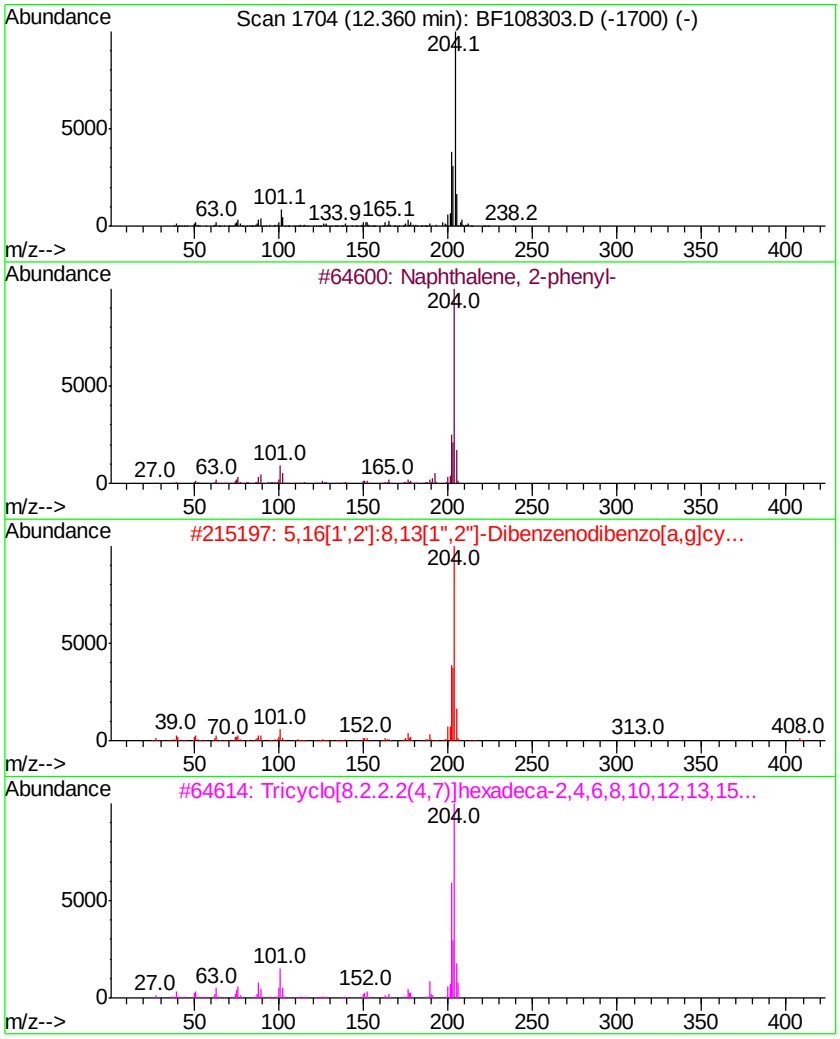
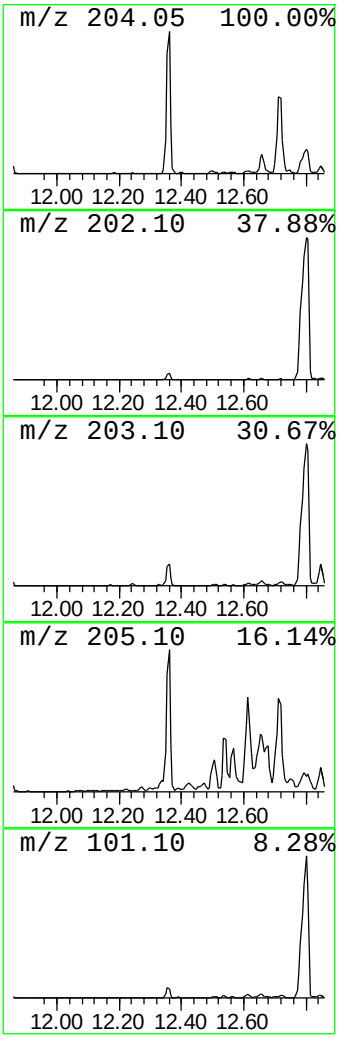
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	15.51 ng	883879	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	58
5	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	53





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Instrument : BNA_F
ClientSampleId : HD-02-081718

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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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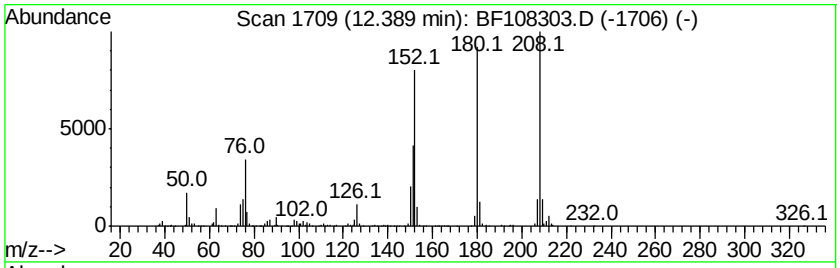
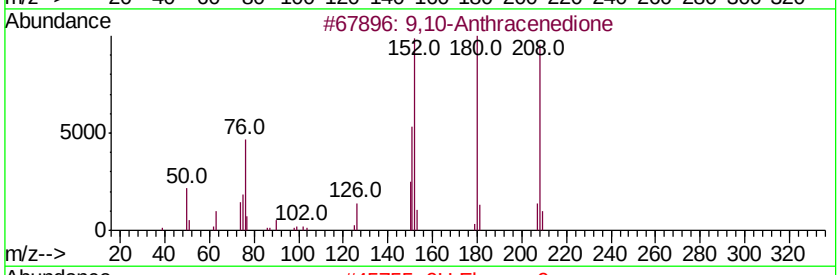
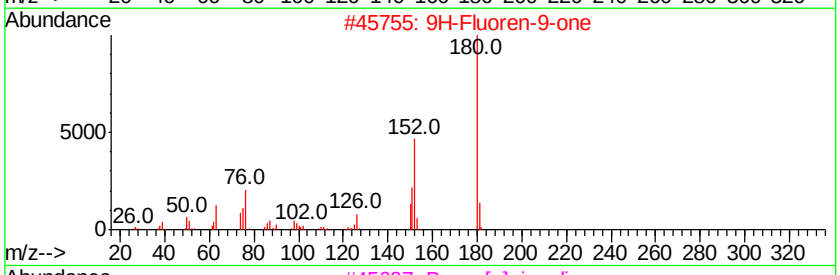
Peak Number 11 9,10-Anthracenedione Concentration Rank 13

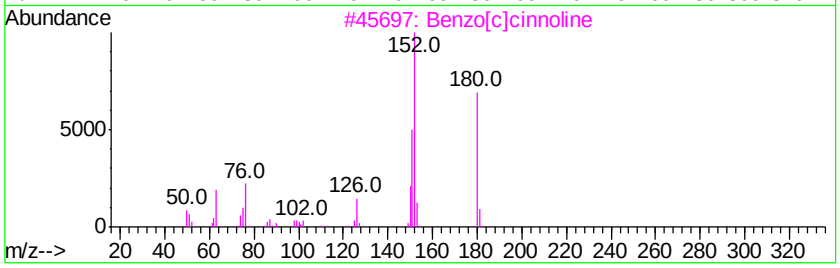
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	11.12 ng	633907	Phenanthrene-d10	11.57

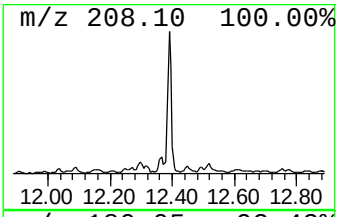
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60

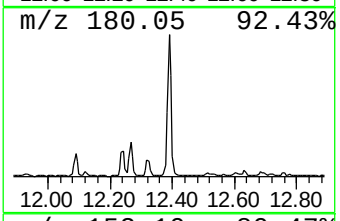


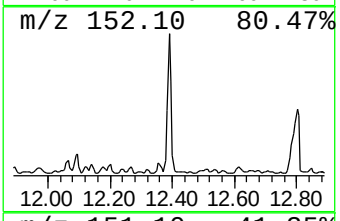


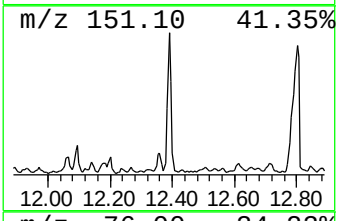


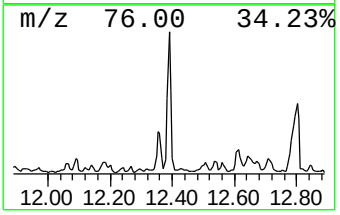












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Operator : JU/SJ
Sample : J4274-03 10X
Misc :
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Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

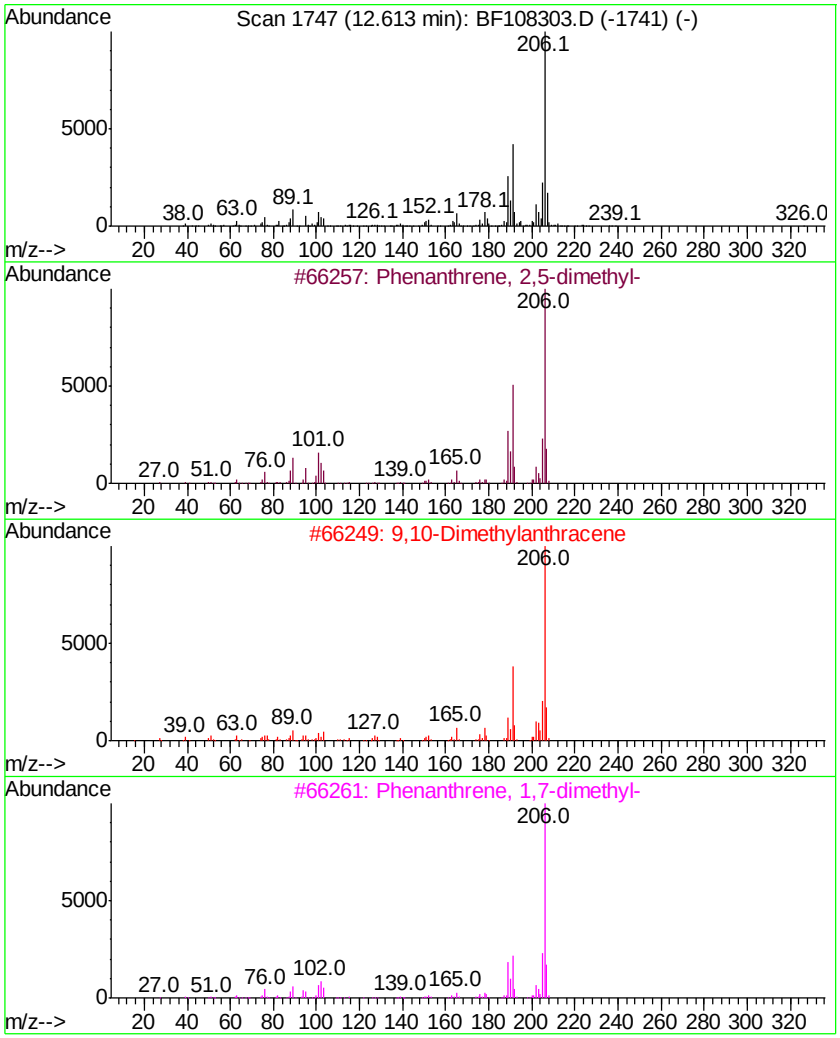
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

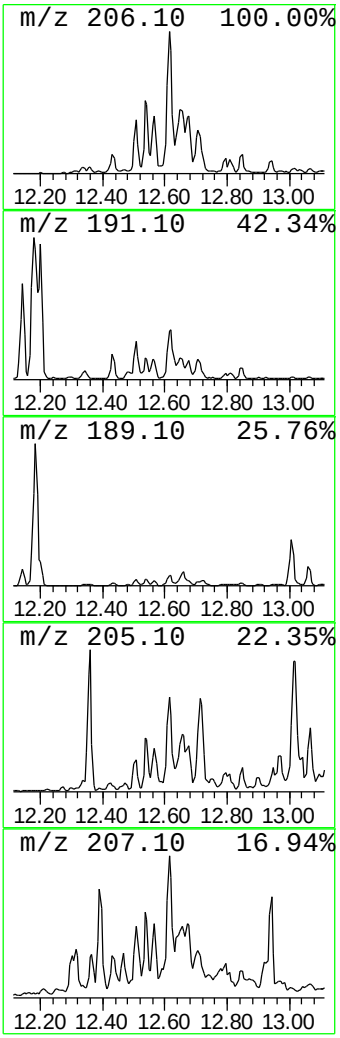
****

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.61	12.83 ng	731129	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
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	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91





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Instrument : BNA_F
ClientSampleId : HD-02-081718

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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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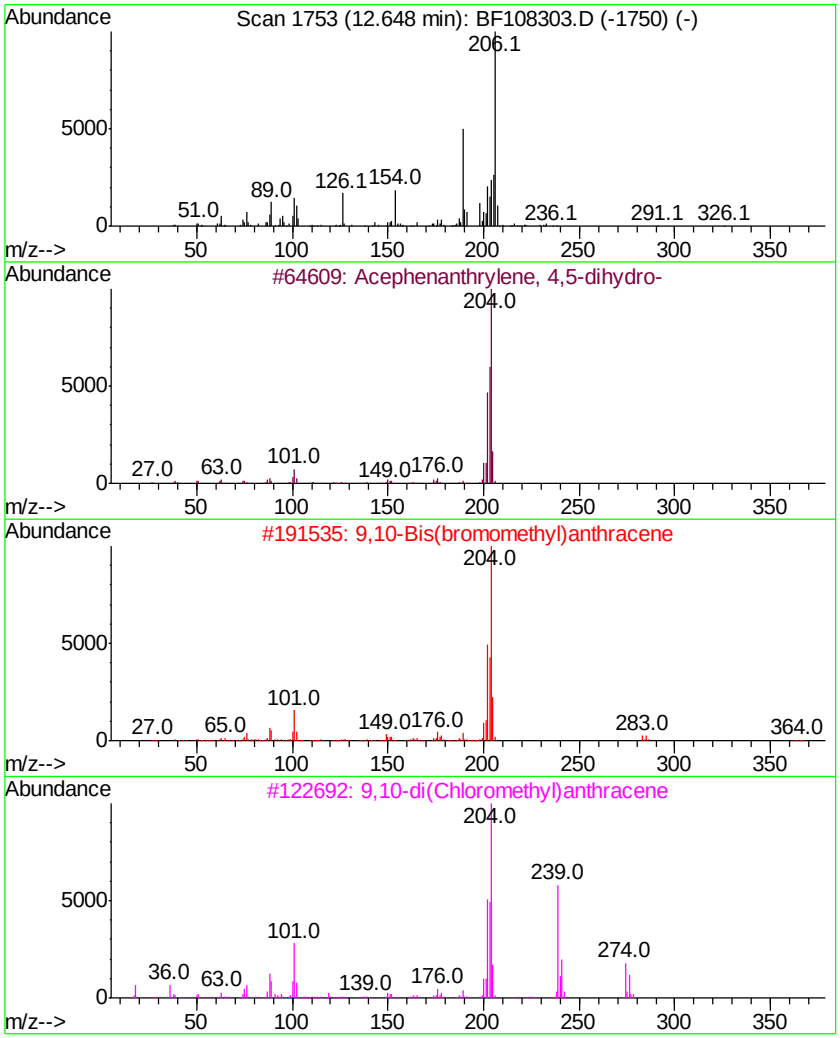
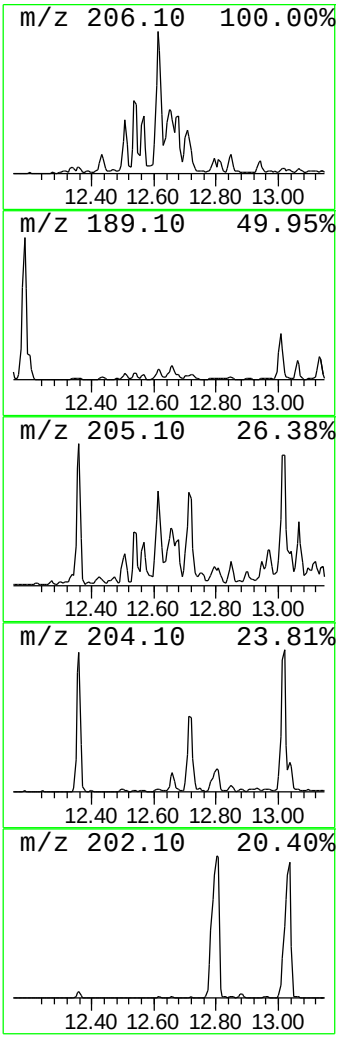
Peak Number 13 Acephenanthrylene, 4,5-dihy... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	8.57 ng	488683	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	72
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
3	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	38
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	30





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Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

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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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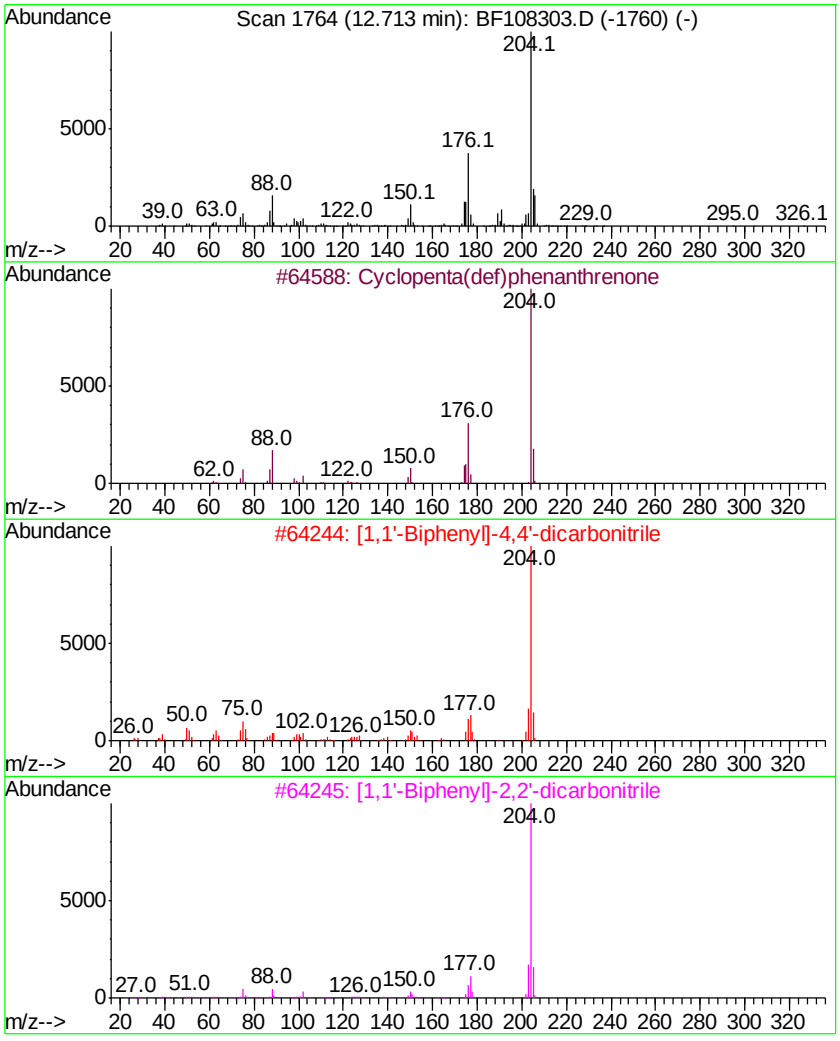
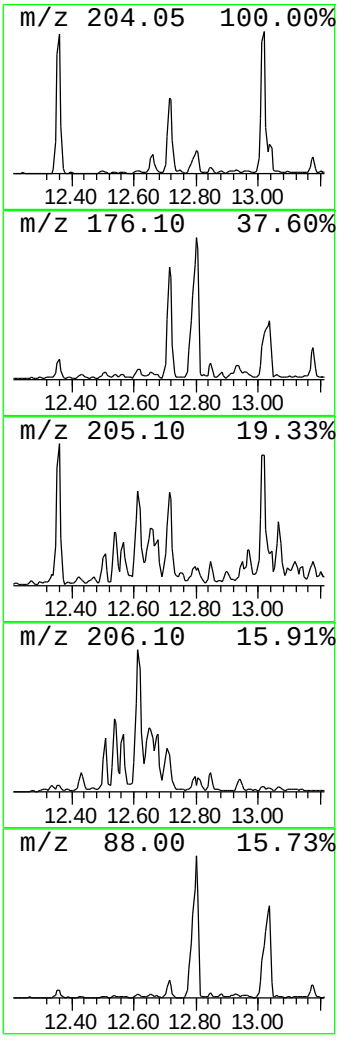
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.71	13.82 ng	787556	Phenanthrene-d10	11.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
4	2,2,4,4,6,6-Hexamethylcyclotrisi...	219	C6H21N3Si3	001009-93-4	47
5	Benzo[1,2-b:4,3-b']dithiophene, ...	204	C11H8S2	013640-86-3	47





Library Search Compound Report

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

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

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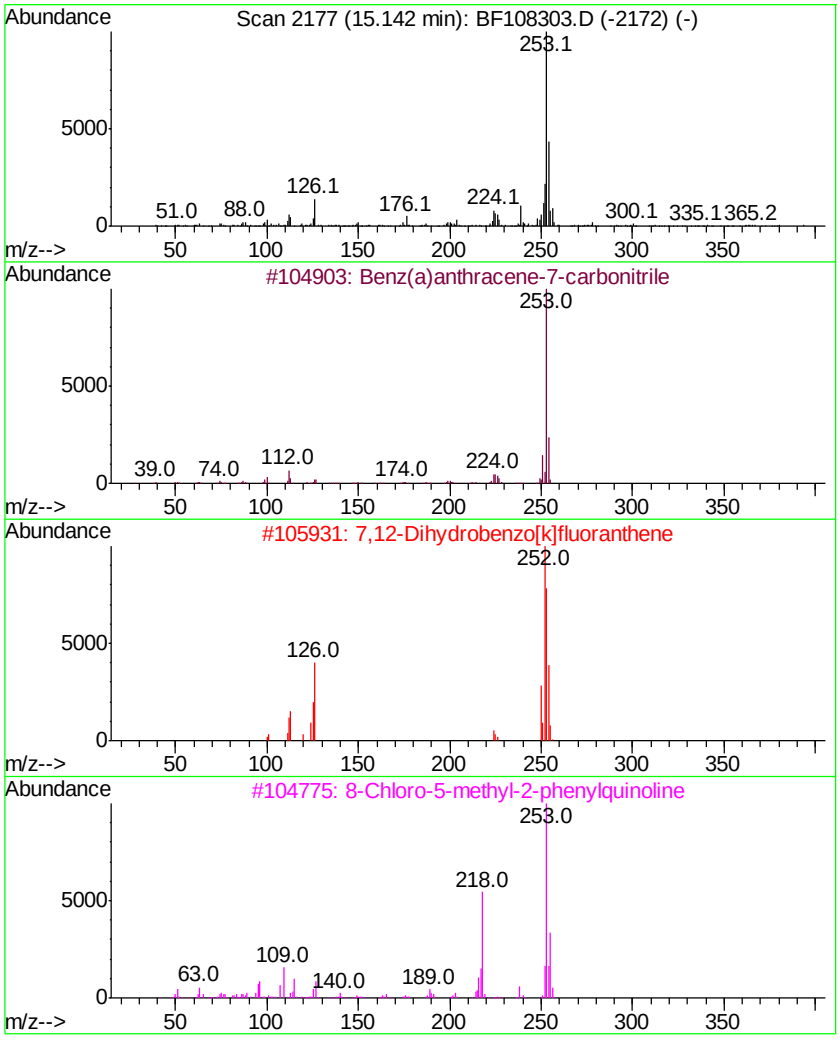
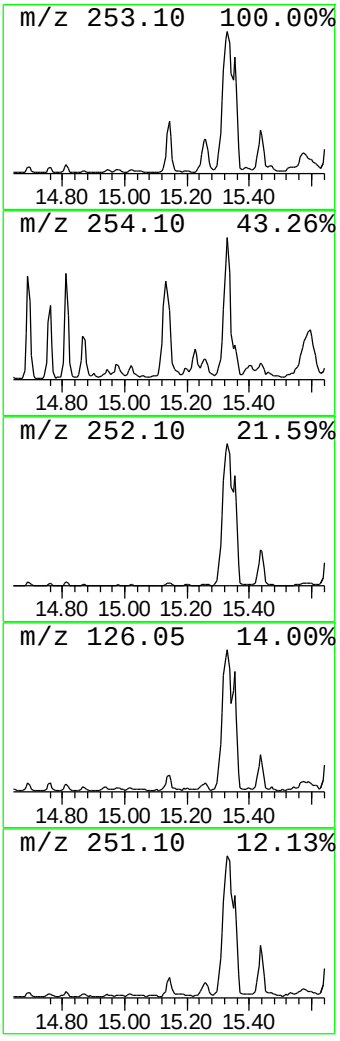
Peak Number 15 Benz(a)anthracene-7-carboni... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	13.74 ng	506255	Perylene-d12	15.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	87
2	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	53
3	8-Chloro-5-methyl-2-phenylquinoline	253	C16H12ClN	025413-16-5	47
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	43
5	4,4'-Biazulenyl	254	C20H14	094053-54-0	43





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
Data File : BF108303.D
Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

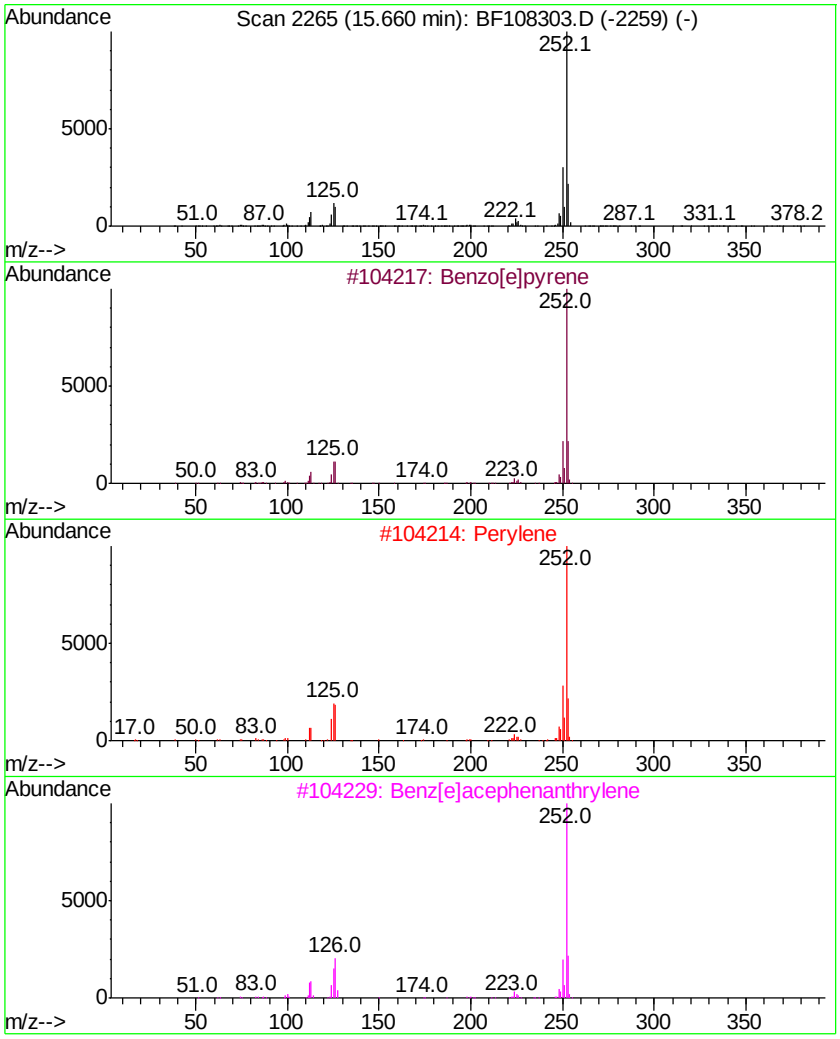
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

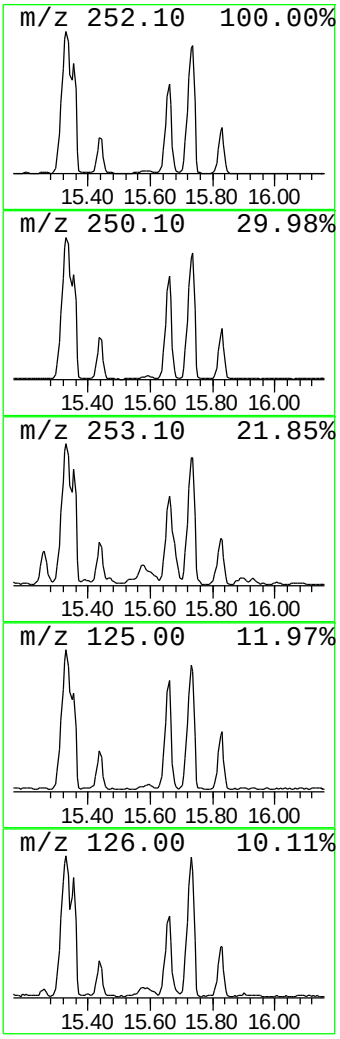
****

Peak Number 17 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.66	66.15 ng	2436850	Perylene-d12	15.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082018\
Data File : BF108303.D
Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.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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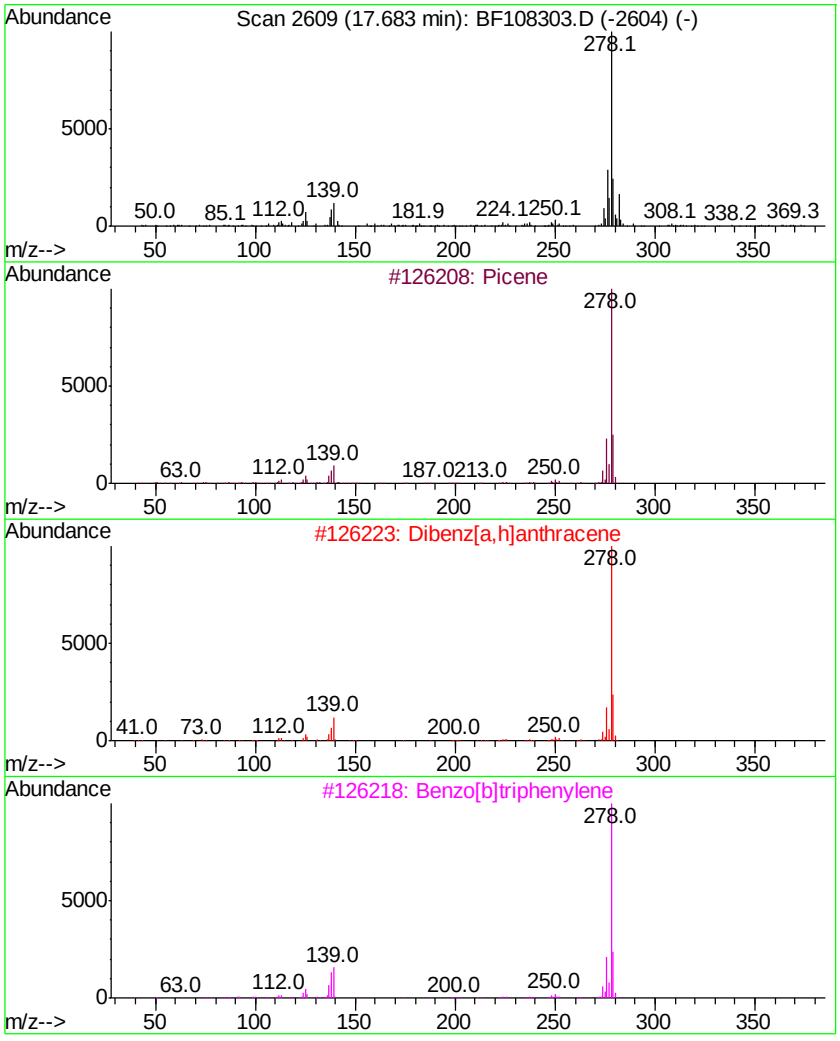
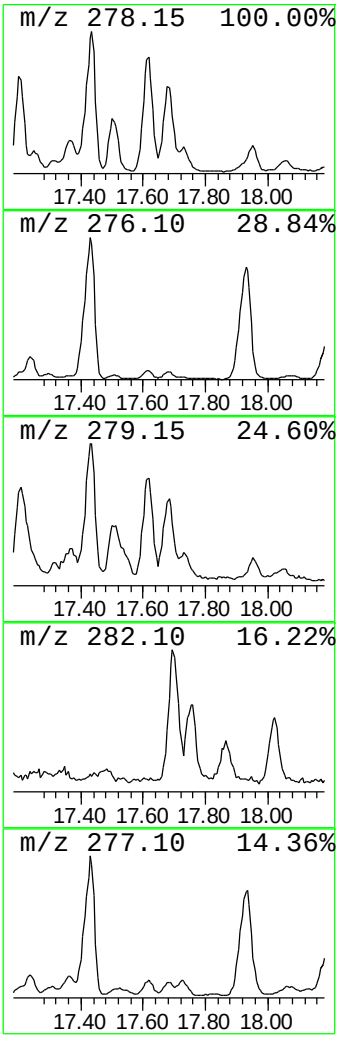
Peak Number 19 Picene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.68	6.96 ng	256428	Perylene-d12	15.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
4	Benzo[b]chrysene	278	C22H14	000214-17-5	89
5	Pentacene	278	C22H14	000135-48-8	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF082018\
Data File : BF108303.D
Acq On : 20 Aug 2018 21:12
Operator : JU/SJ
Sample : J4274-03 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : HD-02-081718

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF080818.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
Naphthalene, 2,3-...	9.71	6.9	ng	423529	3	10.07	1220350	20.0
Dibenzofuran, 4-m...	10.77	8.8	ng	535140	3	10.07	1220350	20.0
9H-Fluorene, 1-me...	11.16	8.9	ng	506369	4	11.57	1139830	20.0
9H-Fluoren-9-one	11.37	10.7	ng	607504	4	11.57	1139830	20.0
Dibenzothiophene	11.45	11.6	ng	662601	4	11.57	1139830	20.0
Phenanthrene, 2-m...	12.07	21.2	ng	1207660	4	11.57	1139830	20.0
Phenanthrene, 1-m...	12.10	26.7	ng	1522350	4	11.57	1139830	20.0
Anthracene, 1-met...	12.14	12.2	ng	697433	4	11.57	1139830	20.0
4H-Cyclopenta[def...	12.18	54.5	ng	3103380	4	11.57	1139830	20.0
Naphthalene, 2-ph...	12.36	15.5	ng	883879	4	11.57	1139830	20.0
9,10-Anthracenedione	12.39	11.1	ng	633907	4	11.57	1139830	20.0
Phenanthrene, 2,5...	12.61	12.8	ng	731129	4	11.57	1139830	20.0
Acephenanthrylene...	12.65	8.6	ng	488683	4	11.57	1139830	20.0
Cyclopenta(def)ph...	12.71	13.8	ng	787556	4	11.57	1139830	20.0
Benz(a)anthracene...	15.14	13.7	ng	506255	6	15.79	736807	20.0
Benzo[e]pyrene	15.66	66.2	ng	2436850	6	15.79	736807	20.0
Picene	17.68	7.0	ng	256428	6	15.79	736807	20.0