LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091719\
Data File : BP000273.D
Acq On : 17 Sep 2019 15:24
Operator : HP/JU
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

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_P\METHODS\8270-BP091619.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	5.416	561	566	569	rBV	4801763	4317583	28.16%	2.297%
2	6.428	733	738	750	rBV2	5212301	4773778	31.14%	2.540%
3	6.563	757	761	764	rBV	5726441	4778294	31.17%	2.543%
4	6.793	796	800	803	rBV	2106078	1631007	10.64%	0.868%
5	6.946	823	826	830	rBV	4521923	4069216	26.54%	2.165%
6	7.346	890	894	897	rBV	2750727	2378860	15.52%	1.266%
7	8.075	1014	1018	1020	rBV	2231842	1831619	11.95%	0.975%
8	9.151	1197	1201	1204	rBV	7298854	5587602	36.45%	2.973%
9	9.493	1255	1259	1261	rBV	192610	181751	1.19%	0.097%
10	9.546	1265	1268	1274	rVB	623907	493041	3.22%	0.262%
11	9.693	1288	1293	1298	rVB	458034	387181	2.53%	0.206%
12	9.834	1310	1317	1320	rBV	2650641	2212213	14.43%	1.177%
13	9.863	1320	1322	1325	rVB	1081205	830622	5.42%	0.442%
14	10.040	1348	1352	1355	rVB	648099	549395	3.58%	0.292%
15	10.381	1407	1410	1416	rVB	735877	618987	4.04%	0.329%
16	10.540	1435	1437	1443	rVB	305800	297006	1.94%	0.158%
17	10.622	1447	1451	1455	rVV	3961367	3722368	24.28%	1.981%
18	10.746	1468	1472	1476	rBV4	184141	217925	1.42%	0.116%
19	11.069	1522	1527	1529	rBV3	264275	371422	2.42%	0.198%
20	11.128	1534	1537	1542	rVV	1160907	1026587	6.70%	0.546%
21	11.187	1542	1547	1549	rVV2	260972	355634	2.32%	0.189%
22	11.222	1550	1553	1559	rVB	924608	822849	5.37%	0.438%
23	11.328	1568	1571	1573	rBV	2169529	2243916	14.64%	1.194%
24	11.363	1573	1577	1579	rVV	11102806	11247726	73.36%	5.985%
25	11.404	1581	1584	1587	rVV	2613204	2063633	13.46%	1.098%
26	11.440	1587	1590	1593	rVB	240159	233171	1.52%	0.124%
27	11.557	1604	1610	1613	rBV	1762091	1582537	10.32%	0.842%
28	11.628	1619	1622	1625	rVB2	280678	224748	1.47%	0.120%
29	11.663	1625	1628	1631	rBV3	361852	296153	1.93%	0.158%
30	11.834	1652	1657	1660	rBV	1527183	1438094	9.38%	0.765%
31	11.863	1660	1662	1666	rVB	2289152	1834546	11.97%	0.976%
32	11.910	1666	1670	1673	rBV	623901	548069	3.57%	0.292%
33	11.945	1673	1676	1679	rVV	1942222	2197814	14.34%	1.169%
34	11.969	1679	1680	1684	rVB	1080515	721175	4.70%	0.384%

LSC Area Percent Report

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Operator : HP/JU
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

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_P\METHODS\8270-BP091619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.016	1684	1688	1690	rBV2	128485	164461	1.07%	0.088%
36	12.134	1705	1708	1710	rBV	1262434	1098995	7.17%	0.585%
37	12.157	1710	1712	1716	rVB	2190737	1676173	10.93%	0.892%
38	12.287	1731	1734	1737	rVB	339907	276617	1.80%	0.147%
39	12.316	1737	1739	1741	rBV	317462	224113	1.46%	0.119%
40	12.340	1741	1743	1746	rVB	336924	270077	1.76%	0.144%
41	12.392	1746	1752	1755	rBV2	974576	1156000	7.54%	0.615%
42	12.428	1755	1758	1761	rVV	343896	448402	2.92%	0.239%
43	12.481	1764	1767	1772	rVB	1226092	1233821	8.05%	0.657%
44	12.569	1776	1782	1785	rBV	12101311	15055223	98.20%	8.011%
45	12.616	1785	1790	1794	rBV3	339390	523131	3.41%	0.278%
46	12.651	1794	1796	1798	rVB	233976	186150	1.21%	0.099%
47	12.704	1798	1805	1810	rBV3	795283	1371098	8.94%	0.730%
48	12.798	1814	1821	1824	rBV2	11082920	15331594	100.00%	8.158%
49	12.834	1824	1827	1833	rVB2	667105	771067	5.03%	0.410%
50	12.904	1836	1839	1841	rBV	955533	927696	6.05%	0.494%
51	12.934	1841	1844	1850	rVB2	6484661	6459747	42.13%	3.437%
52	13.010	1851	1857	1860	rBV3	1007920	1696117	11.06%	0.903%
53	13.034	1860	1861	1864	rVB	403939	237153	1.55%	0.126%
54	13.069	1864	1867	1869	rBV3	207975	279933	1.83%	0.149%
55	13.092	1869	1871	1873	rBV2	671469	734968	4.79%	0.391%
56	13.116	1873	1875	1878	rVB	1364927	1165174	7.60%	0.620%
57	13.151	1878	1881	1883	rBV2	204000	234027	1.53%	0.125%
58	13.181	1883	1886	1889	rBV	519999	491133	3.20%	0.261%
59	13.222	1889	1893	1896	rBV2	1517039	1515008	9.88%	0.806%
60	13.281	1901	1903	1906	rBV3	288821	279836	1.83%	0.149%
61	13.316	1906	1909	1912	rVB	745003	592488	3.86%	0.315%
62	13.345	1912	1914	1918	rBV	809829	711973	4.64%	0.379%
63	13.422	1924	1927	1932	rBV3	216266	350814	2.29%	0.187%
64	13.498	1937	1940	1942	rBV3	279585	337088	2.20%	0.179%
65	13.522	1942	1944	1947	rVV3	292793	370281	2.42%	0.197%
66	13.545	1947	1948	1951	rVV	239801	179299	1.17%	0.095%
67	13.628	1959	1962	1967	rVB	1931175	1924827	12.55%	1.024%
68	13.739	1977	1981	1984	rBV2	1784206	2092223	13.65%	1.113%
69	13.769	1984	1986	1988	rVV	1310677	1205555	7.86%	0.641%
70	13.798	1988	1991	1995	rVV2	1169414	1752490	11.43%	0.933%
71	13.839	1995	1998	2004	rVB	2158128	2340580	15.27%	1.245%

LSC Area Percent Report

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Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

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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Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.910	2008	2010	2015	rVB	309492	326354	2.13%	0.174%
73	13.992	2017	2024	2028	rBV3	7222242	11294892	73.67%	6.010%
74	14.034	2028	2031	2035	rVB	6454064	6575100	42.89%	3.499%
75	14.086	2038	2040	2041	rBV2	233629	174917	1.14%	0.093%
76	14.104	2041	2043	2047	rVB	534024	461878	3.01%	0.246%
77	14.186	2054	2057	2059	rVB3	587004	602796	3.93%	0.321%
78	14.222	2059	2063	2067	rBV2	852357	1018912	6.65%	0.542%
79	14.257	2067	2069	2072	rVV2	334816	269044	1.75%	0.143%
80	14.328	2078	2081	2083	rVB3	283618	285305	1.86%	0.152%
81	14.351	2083	2085	2087	rBV2	331895	296413	1.93%	0.158%
82	14.386	2087	2091	2094	rVV	1103374	1267555	8.27%	0.674%
83	14.422	2094	2097	2101	rVB2	777355	810288	5.29%	0.431%
84	14.516	2110	2113	2115	rBV	513627	478865	3.12%	0.255%
85	14.534	2115	2116	2120	rVB2	415112	379650	2.48%	0.202%
86	14.698	2141	2144	2147	rBV2	345297	378818	2.47%	0.202%
87	14.775	2154	2157	2160	rBV3	342413	571096	3.72%	0.304%
88	14.875	2171	2174	2175	rBV2	393615	402914	2.63%	0.214%
89	15.063	2200	2206	2208	rBV	4932224	7964360	51.95%	4.238%
90	15.086	2208	2210	2213	rVB	2732517	2288946	14.93%	1.218%
91	15.163	2220	2223	2227	rVB	936204	912513	5.95%	0.486%
92	15.251	2235	2238	2240	rBV2	286651	362622	2.37%	0.193%
93	15.310	2246	2248	2251	rVB2	216091	212085	1.38%	0.113%
94	15.363	2252	2257	2263	rVB	2930554	4077929	26.60%	2.170%
95	15.428	2263	2268	2273	rBV	3843076	4836849	31.55%	2.574%
96	15.486	2274	2278	2281	rBV	1329358	1736010	11.32%	0.924%
97	15.516	2281	2283	2290	rVB2	1264944	1671876	10.90%	0.890%
98	16.980	2525	2532	2540	rVB2	1725962	3477189	22.68%	1.850%
99	17.145	2558	2560	2565	rVB	270300	383759	2.50%	0.204%
100	17.427	2601	2608	2617	rVB	1264798	2662208	17.36%	1.417%

Sum of corrected areas: 187932997

LSC Report - Integrated Chromatogram

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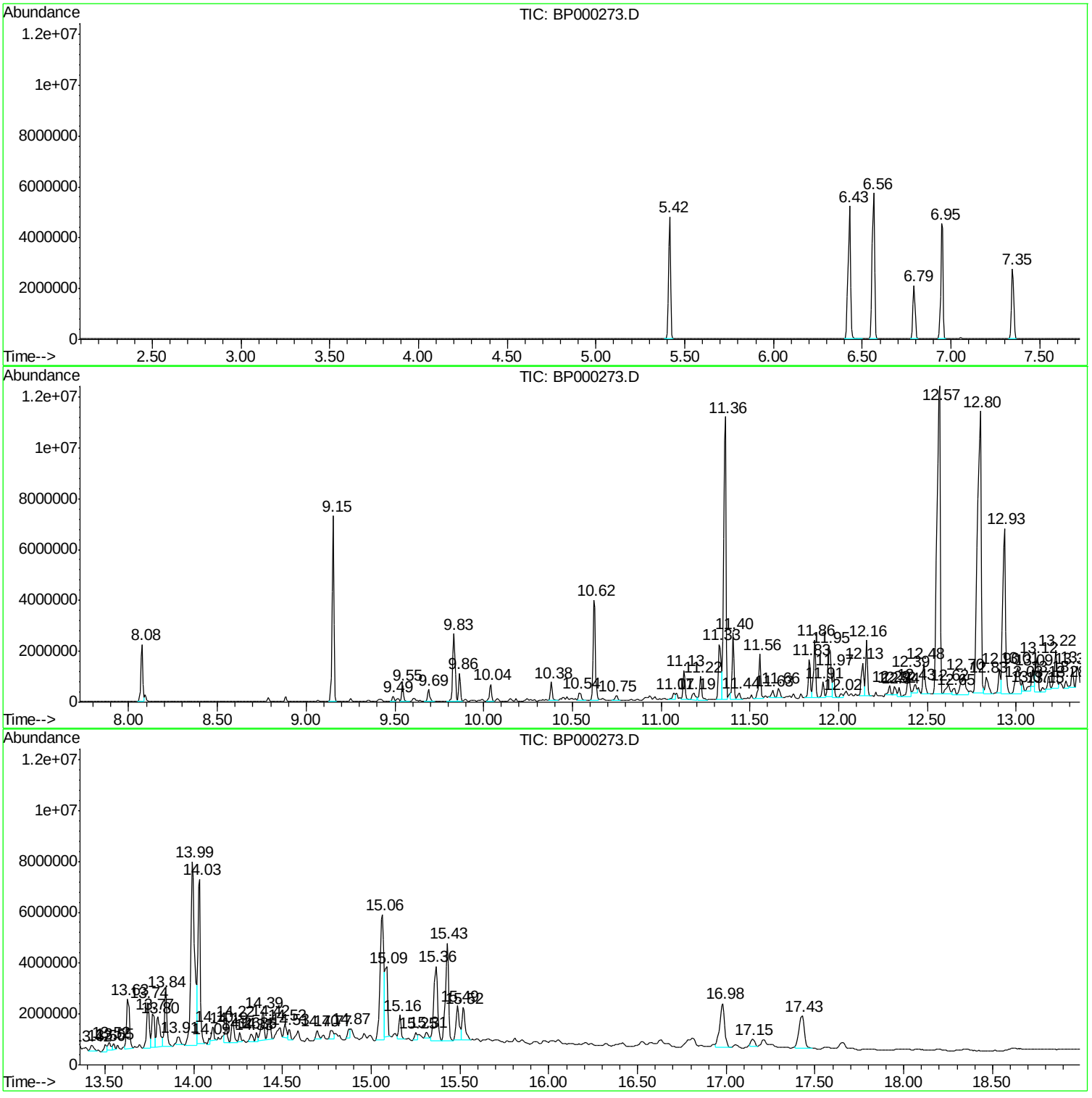
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091719\
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Acq On : 17 Sep 2019 15:24
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Instrument : BNA_P
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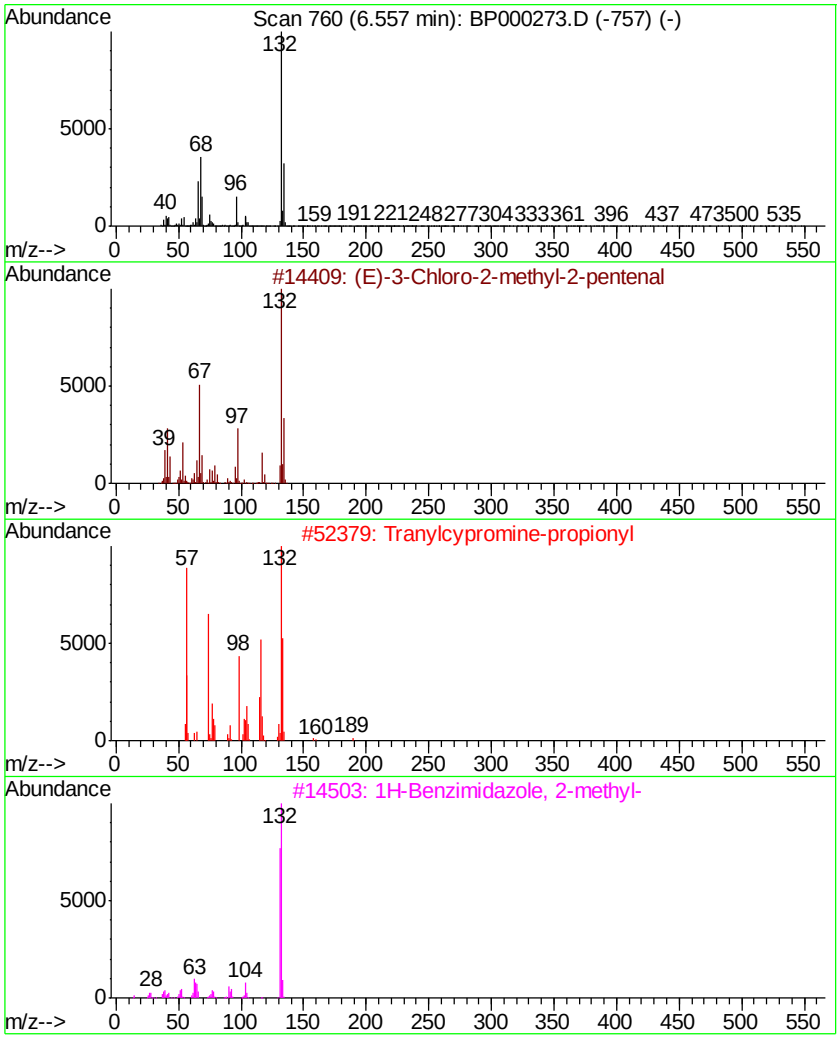
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

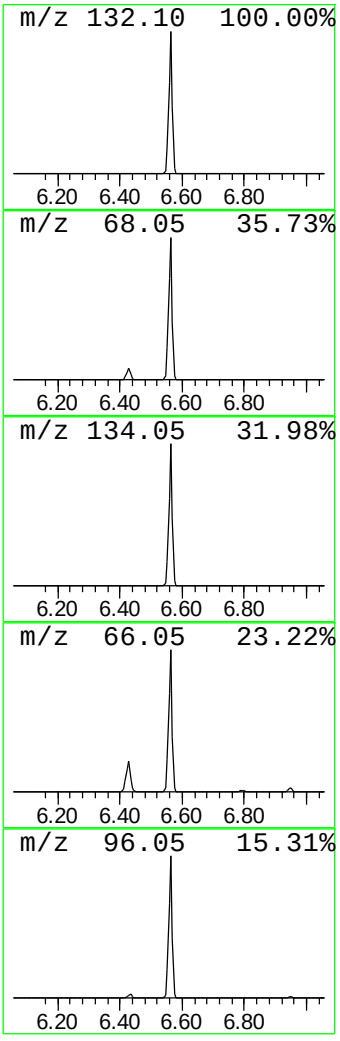
****

Peak Number 1 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	58.59 ng	4778290	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
4	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Library Search Compound Report

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Misc :
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Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
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TIC Library : C:\DATABASE\NIST11.L
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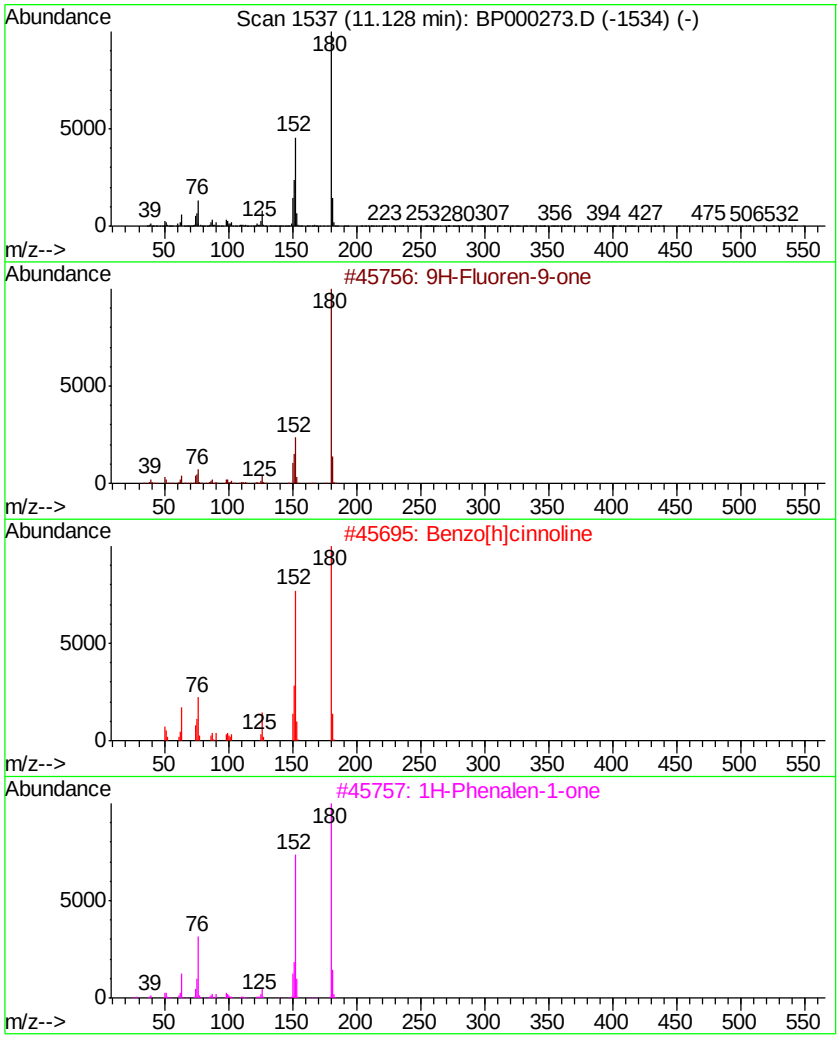
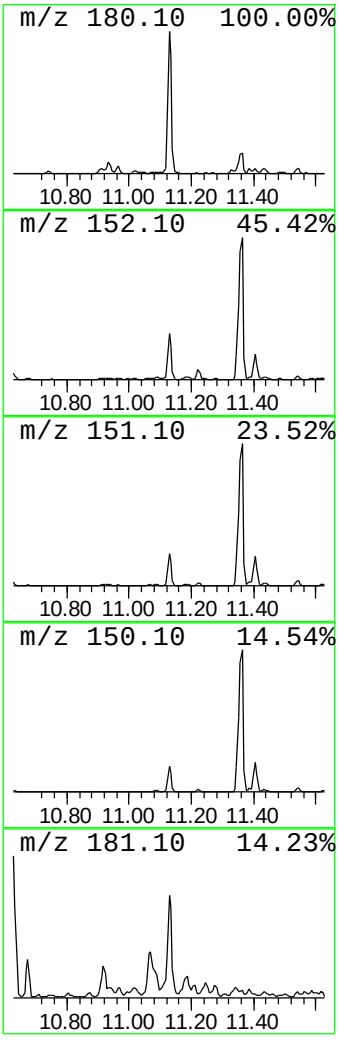
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	9.15 ng	1026590	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	52
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	50
5	5-Methoxy-4-methyl-2,1,3-benzoth...	180	C8H8N2OS	089976-68-1	50





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Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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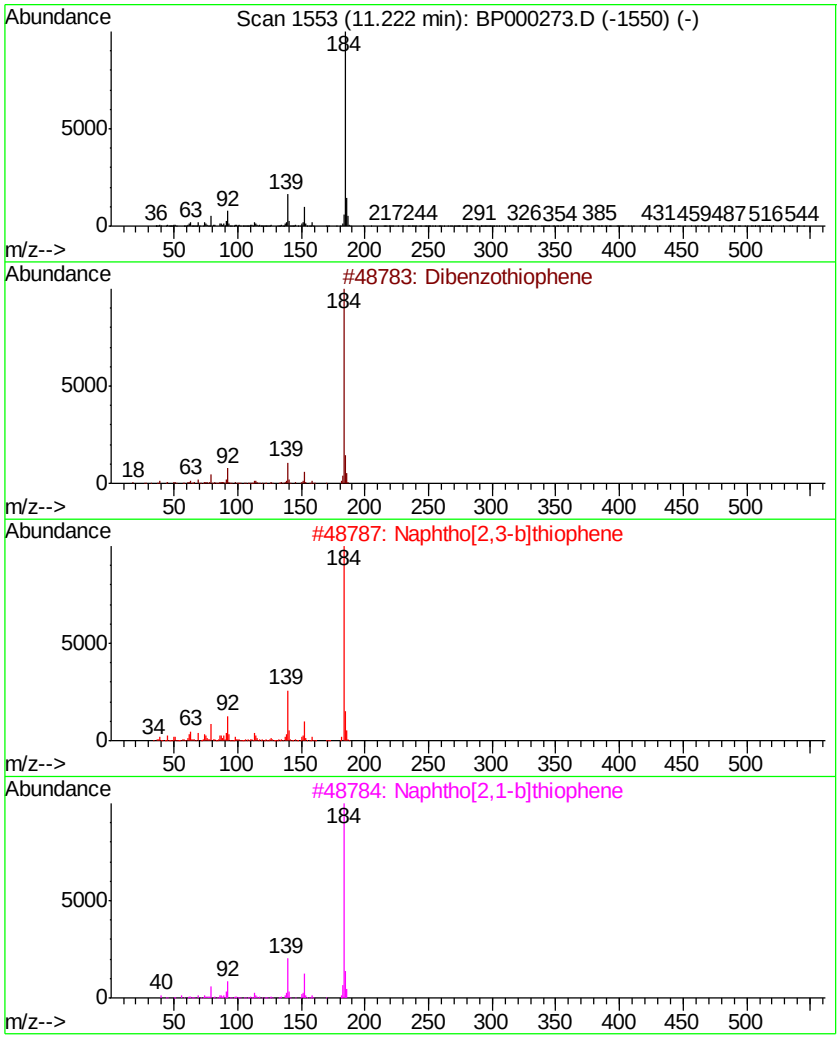
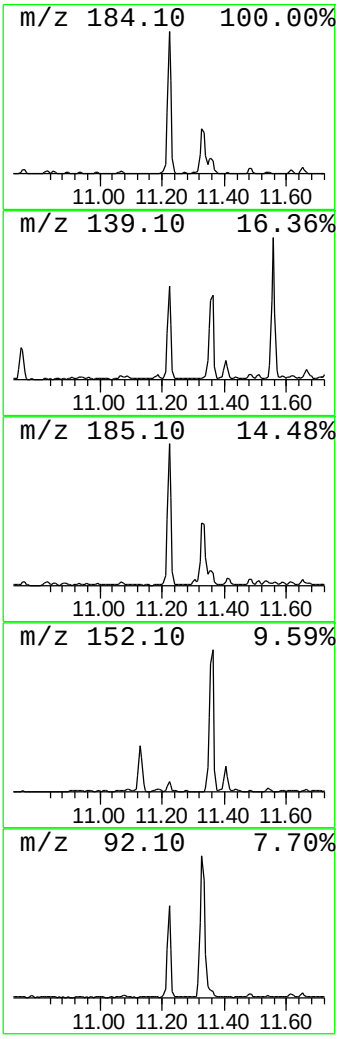
Peak Number 4 Dibenzothiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	7.33 ng	822849	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[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	91
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	78





Library Search Compound Report

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Data File : BP000273.D
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Misc :
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Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

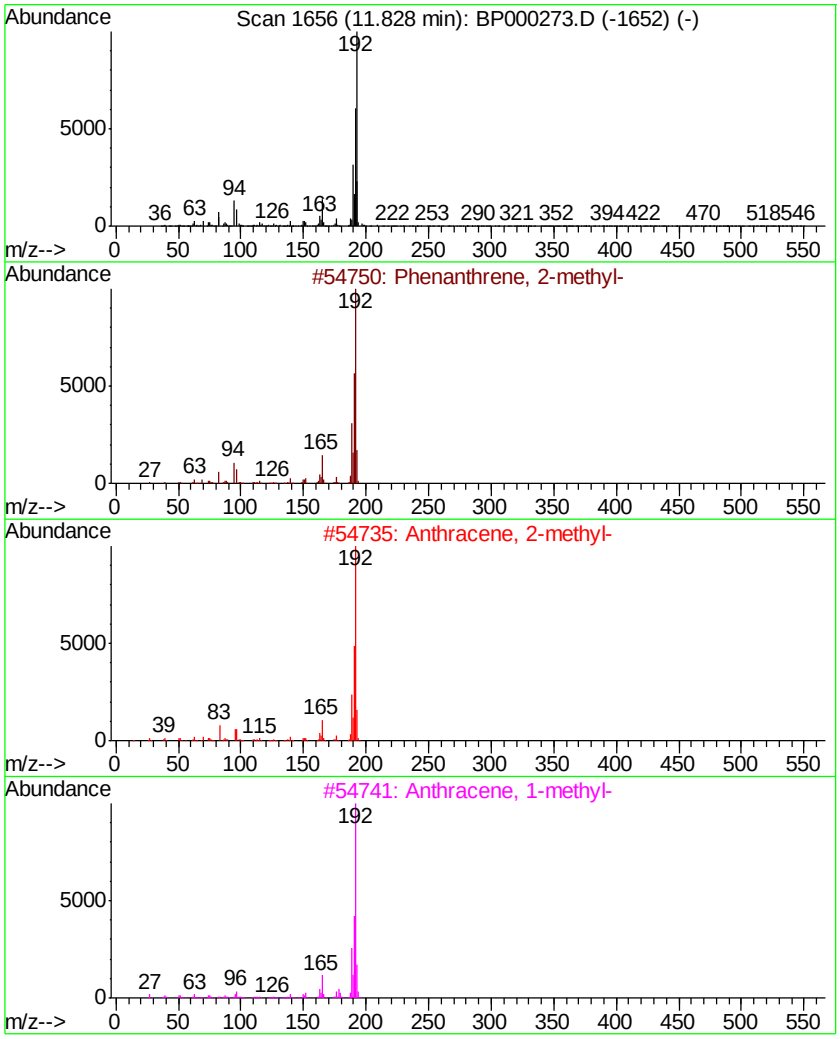
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

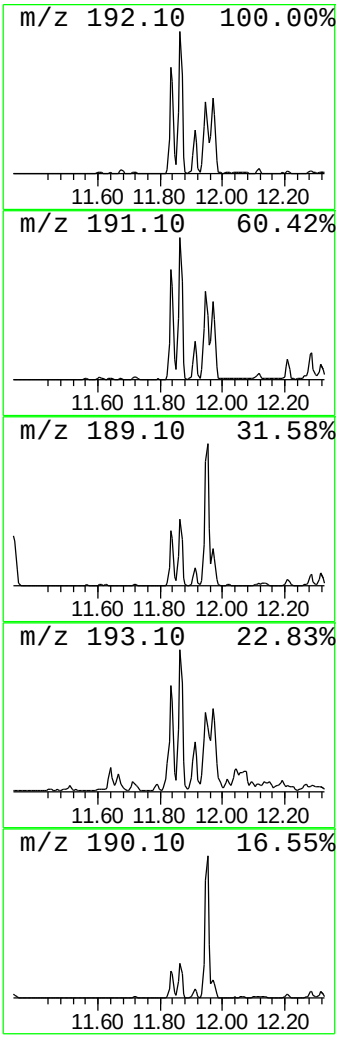
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	12.82 ng	1438090	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	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091719\
Data File : BP000273.D
Acq On : 17 Sep 2019 15:24
Operator : HP/JU
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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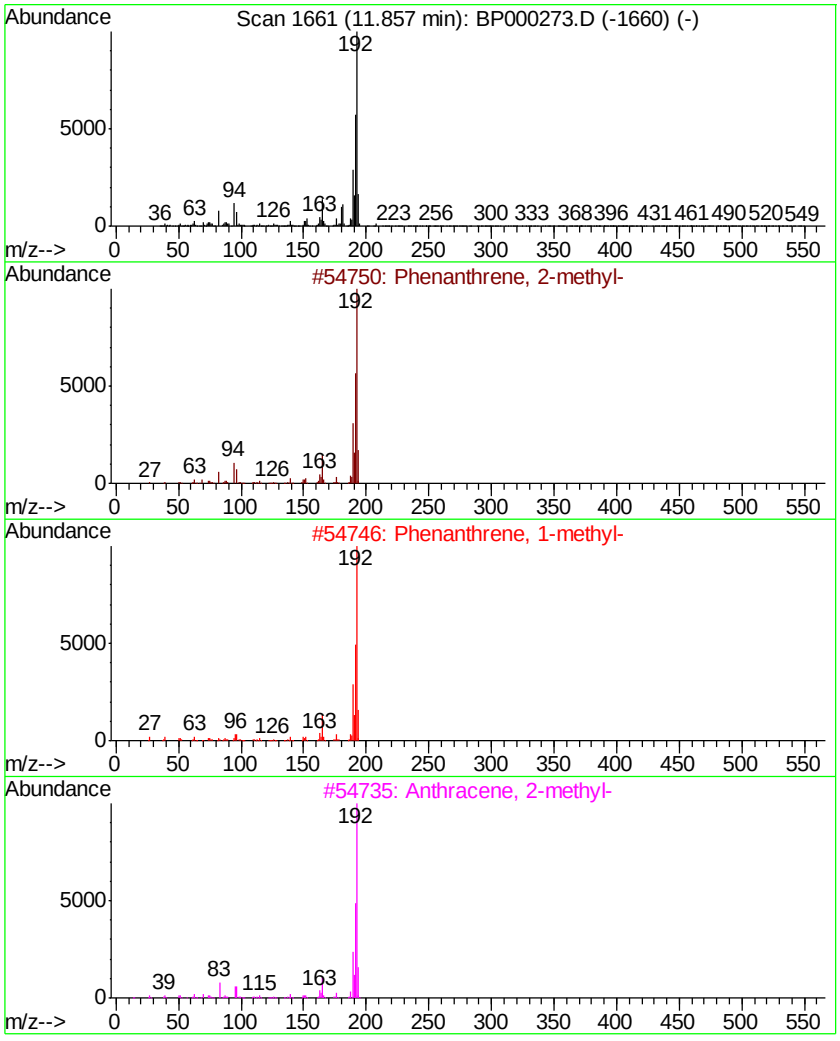
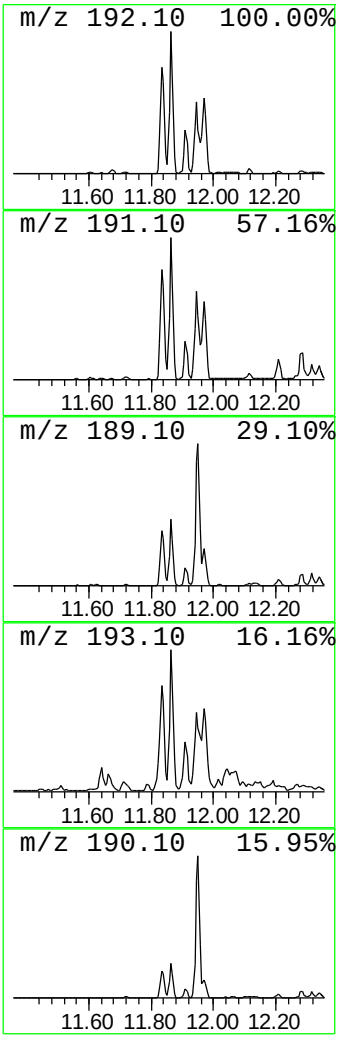
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	16.35 ng	1834550	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	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





Library Search Compound Report

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Operator : HP/JU
Sample : K4918-10
Misc :
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Instrument : BNA_P
ClientSampleId : SB-11

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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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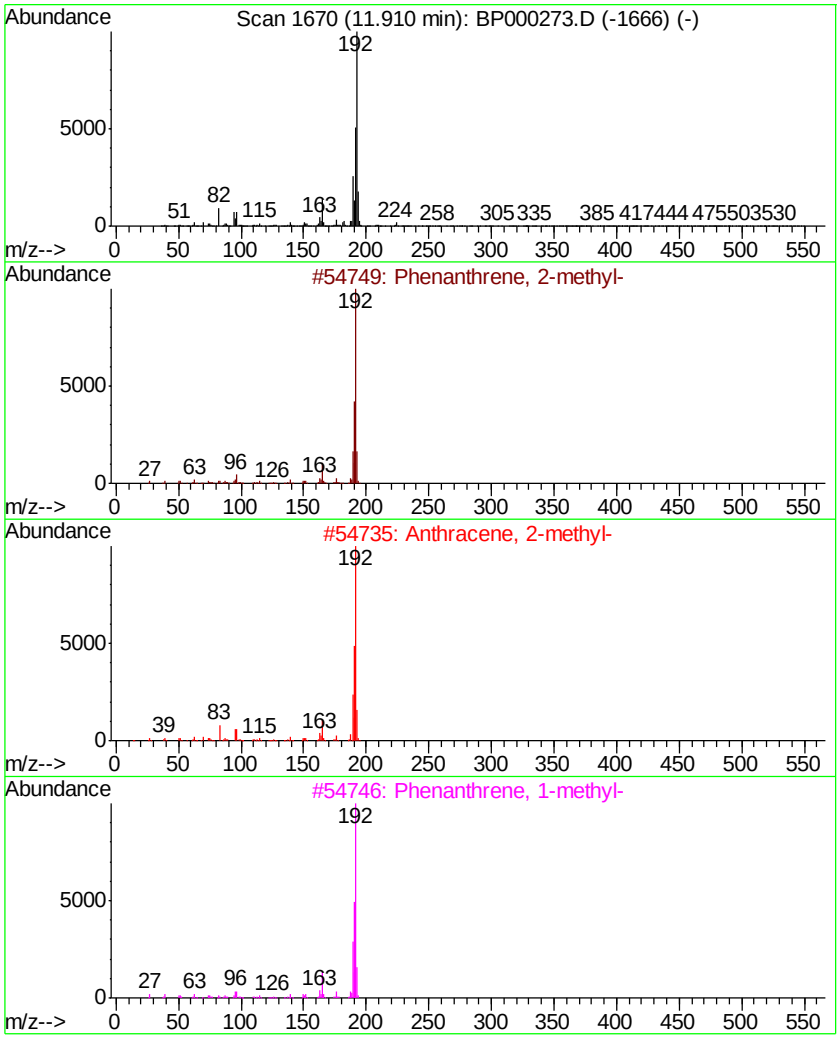
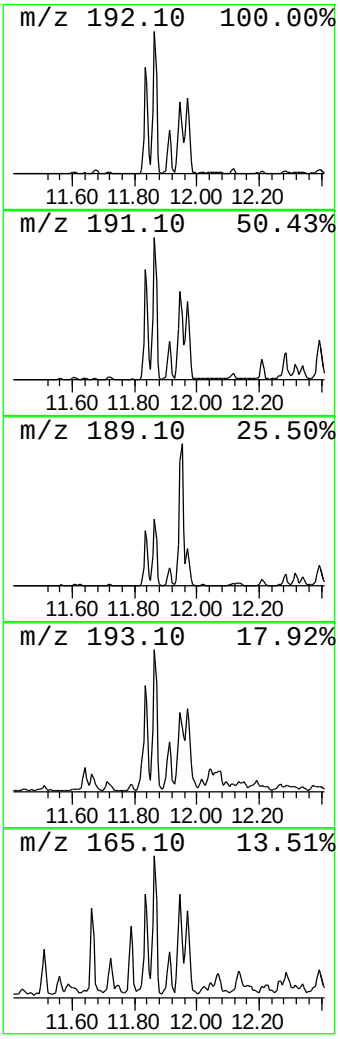
Peak Number 7 Anthracene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	4.88 ng	548069	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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ClientSampleId : SB-11

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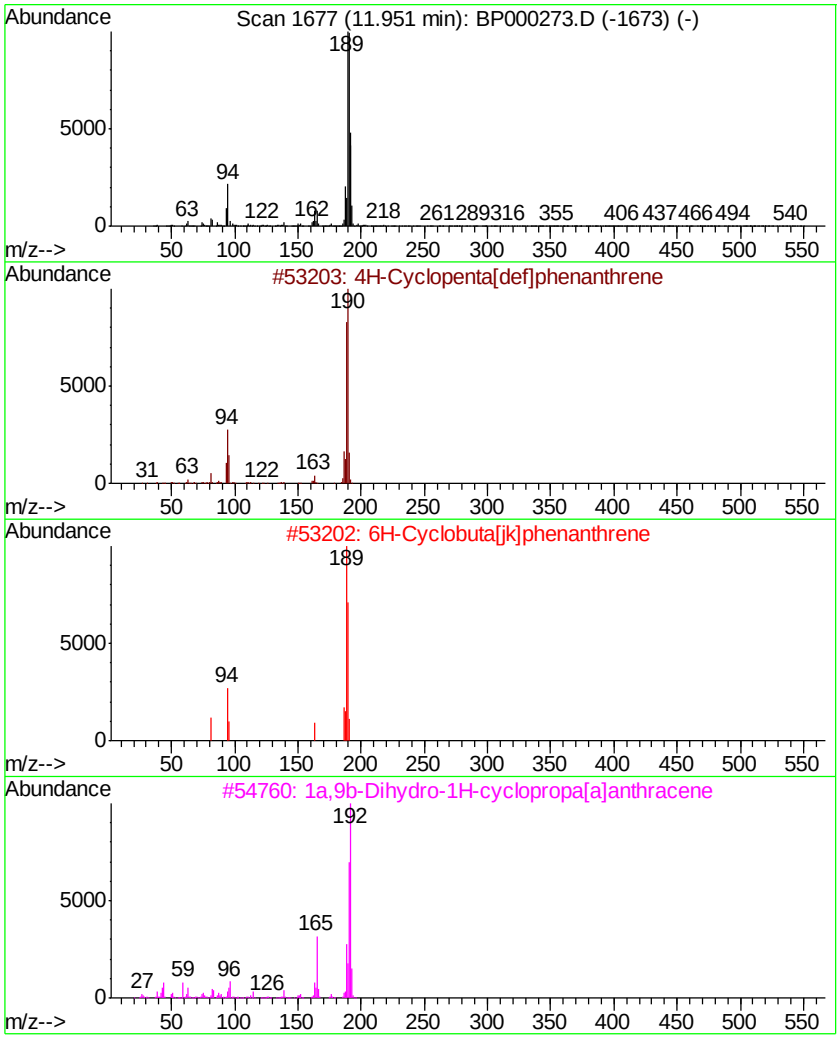
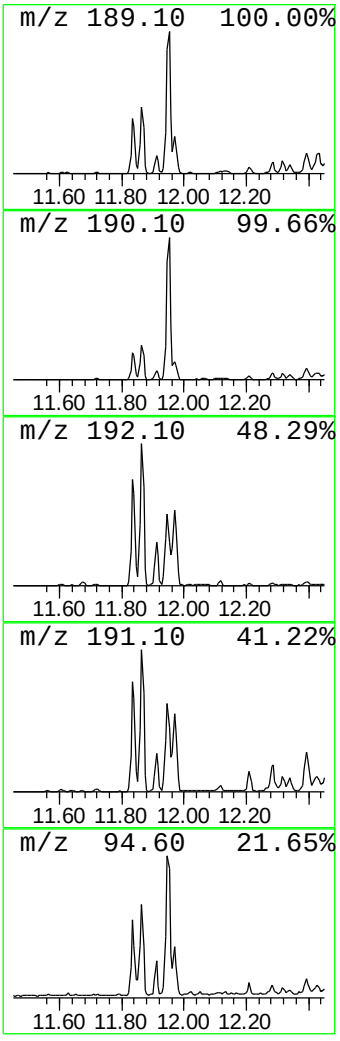
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	19.59 ng	2197810	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	52
3	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	42
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	38





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Instrument : BNA_P
ClientSampleId : SB-11

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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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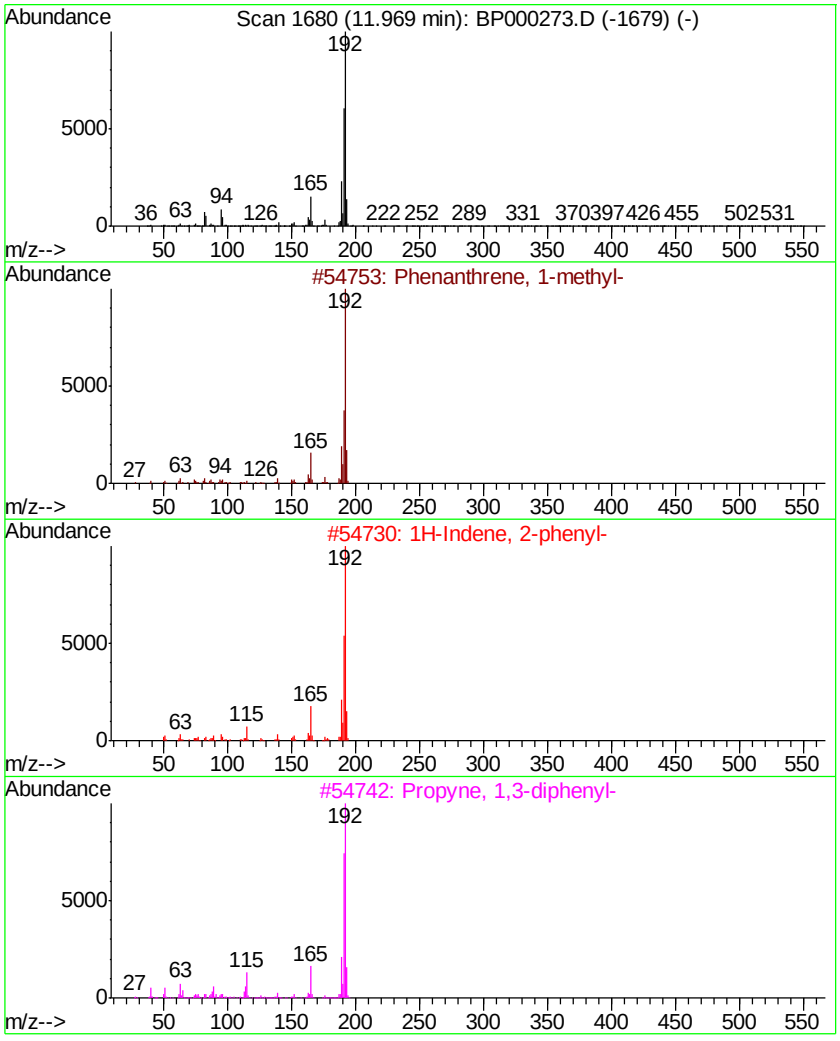
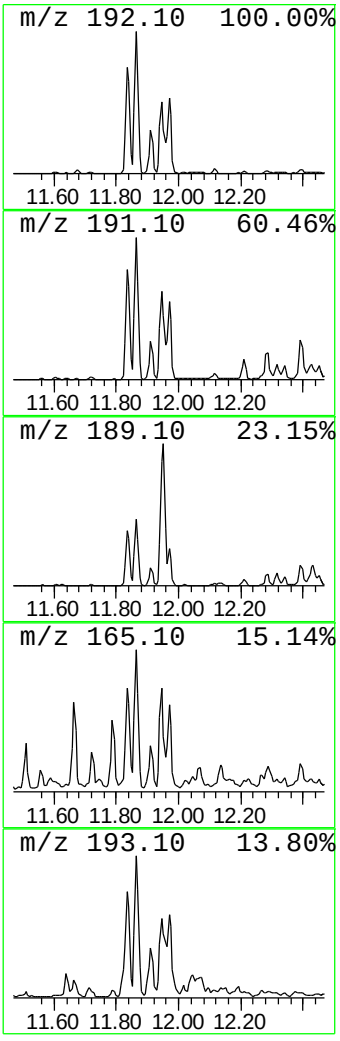
Peak Number 9 1H-Indene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	6.43 ng	721175	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	91
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	91
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91





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Instrument : BNA_P
ClientSampleId : SB-11

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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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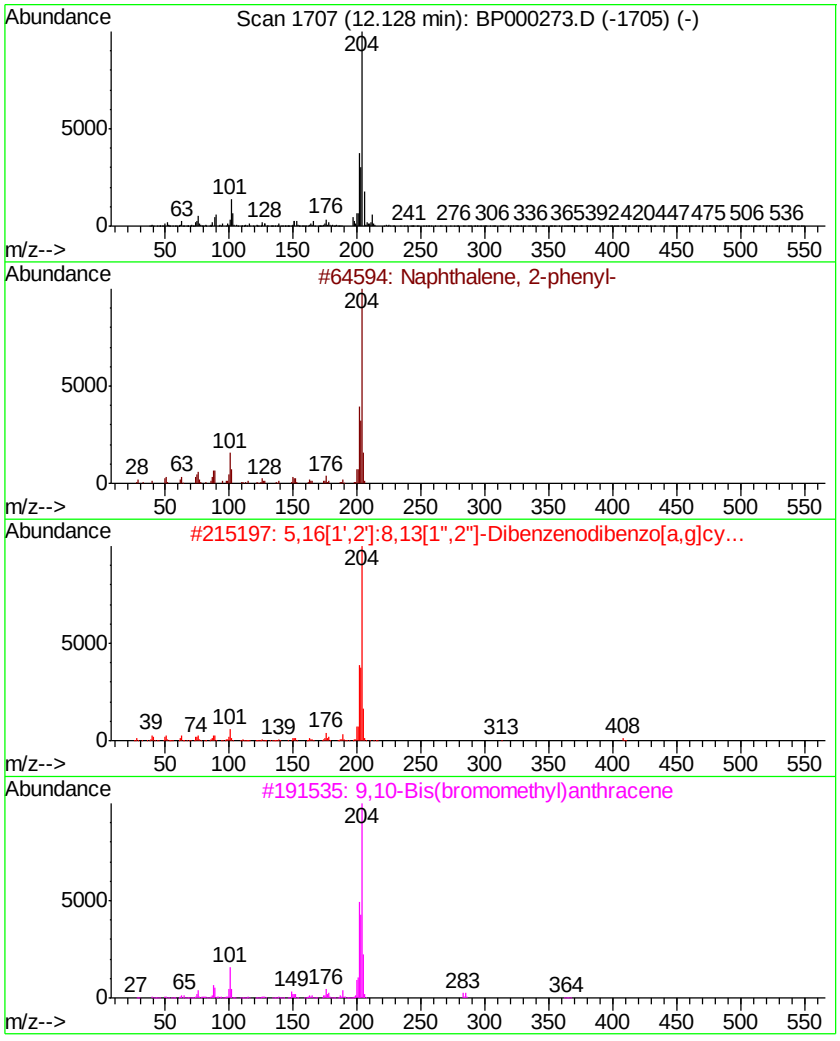
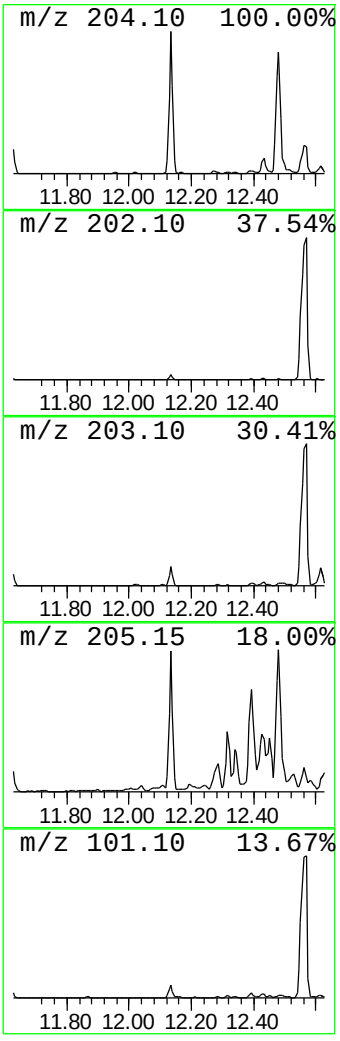
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	9.80 ng	1099000	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	76
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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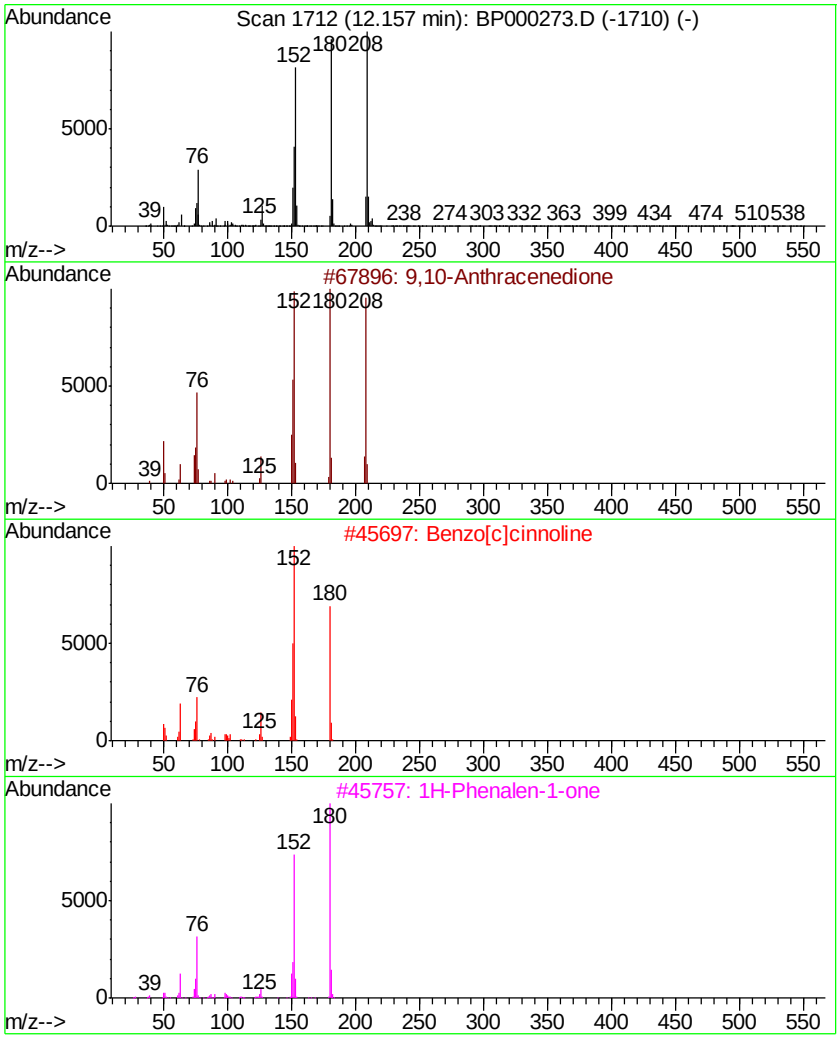
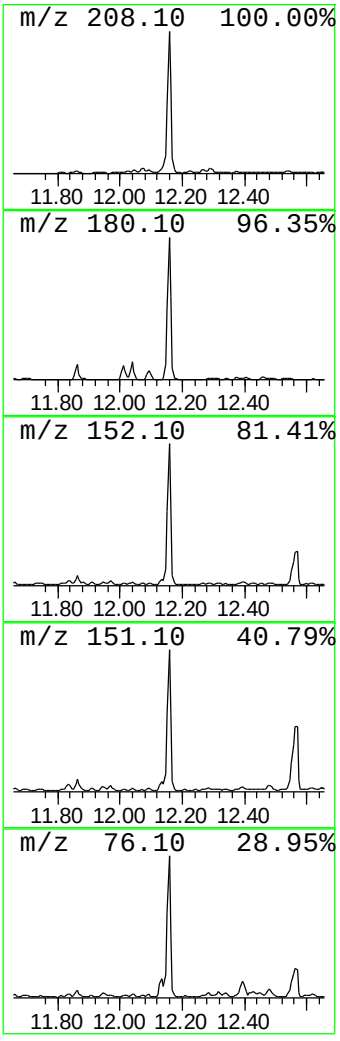
Peak Number 11 Benzo[c]cinnoline Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	14.94 ng	1676170	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	60
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	46





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

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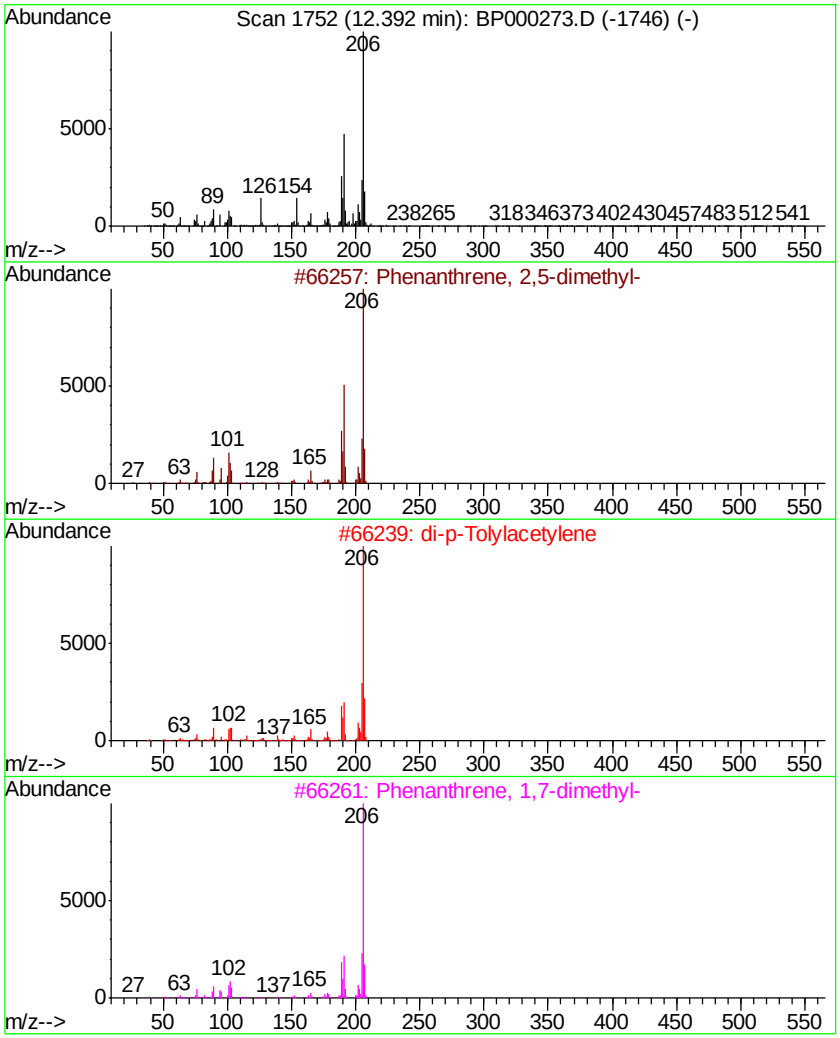
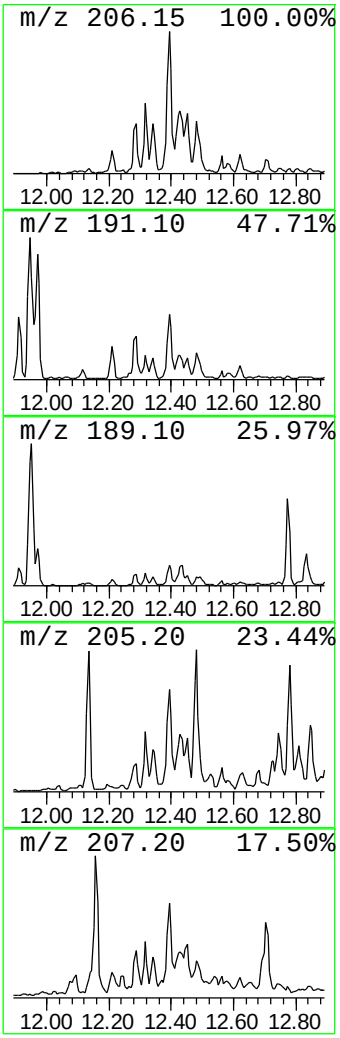
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	10.30 ng	1156000	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	92
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





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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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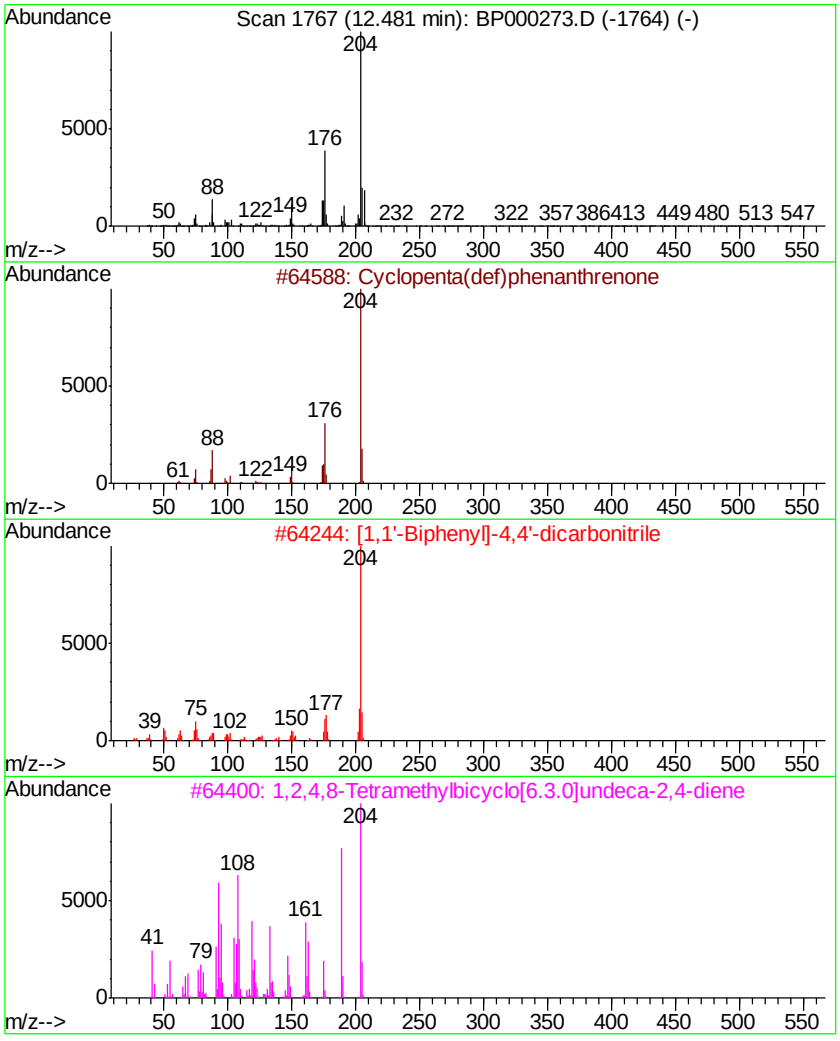
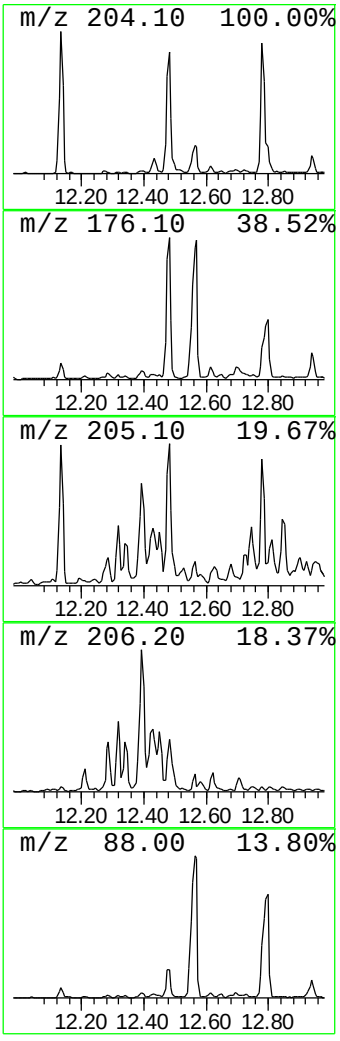
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	11.00 ng	1233820	Phenanthrene-d10	11.33

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	50
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	45
4	.alpha.-D-Mannopyranose, 1,2,3,4...	540	C21H52O6Si5	024707-99-1	43
5	Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	43





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Instrument : BNA_P
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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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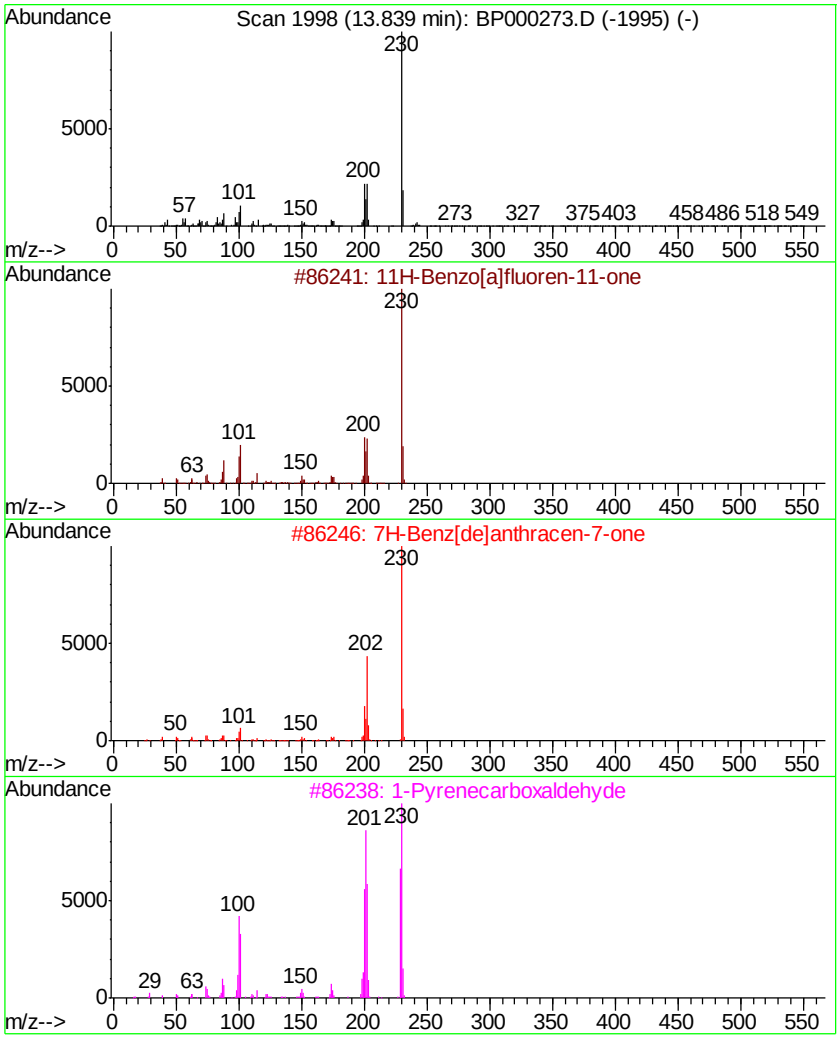
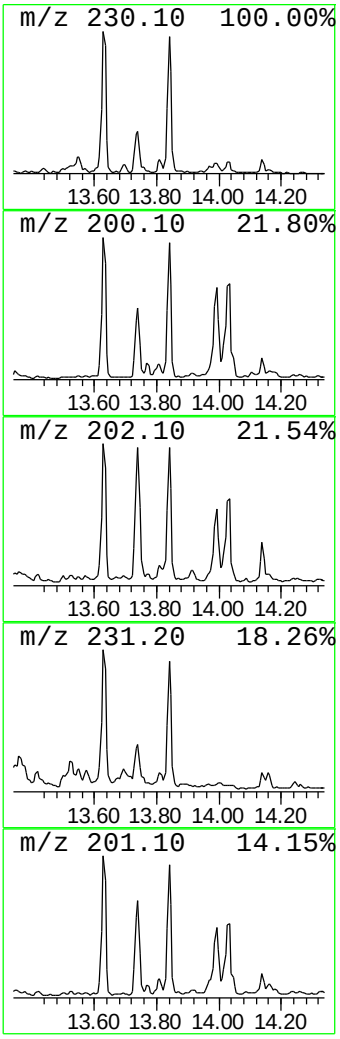
Peak Number 14 11H-Benzo[a]fluoren-11-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.84	4.14 ng	2340580	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	72
4	o-Terphenyl	230	C18H14	000084-15-1	58
5	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	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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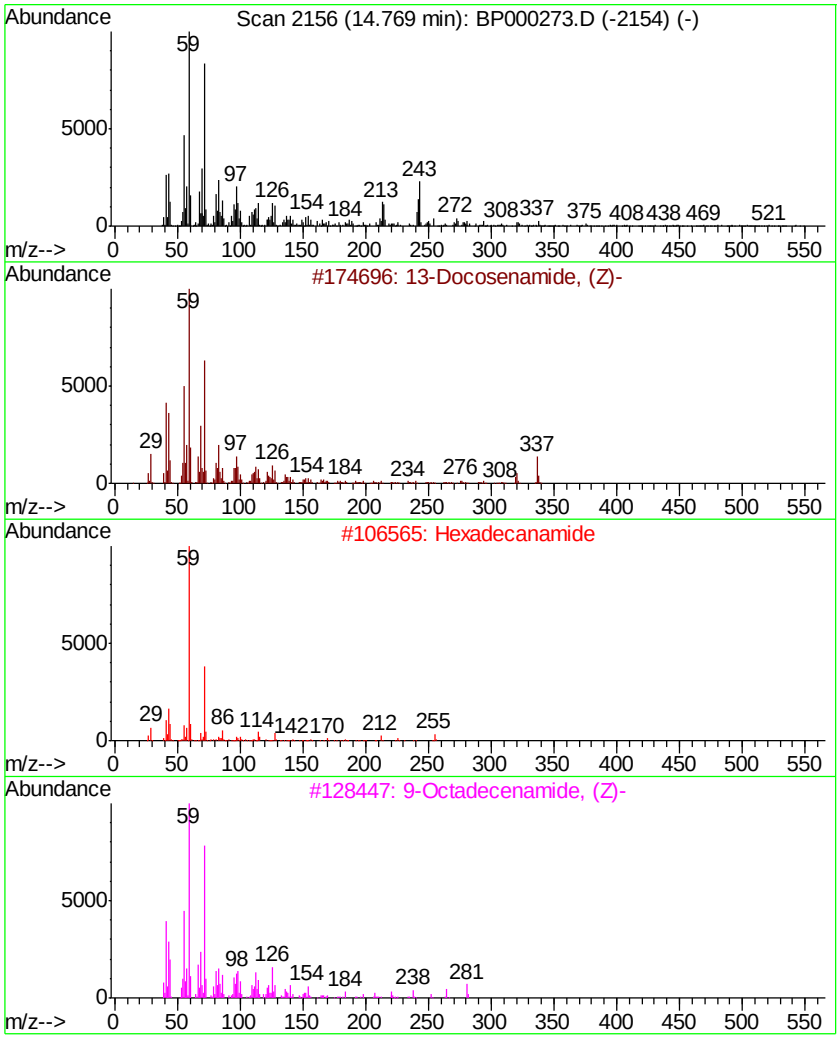
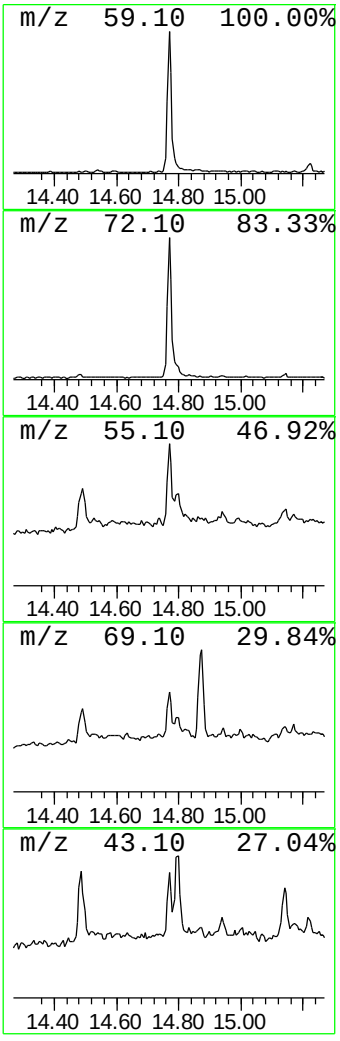
Peak Number 15 13-Docosenamide, (Z)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.77	6.58 ng	571096	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	53
2	Hexadecanamide	255	C16H33NO	000629-54-9	25
3	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	25
4	1,1-Dimethyl-1-silacyclobutane	100	C5H12Si	002295-12-7	22
5	Dodecanoylhydrazide, N2-(1-methy...	296	C18H36N2O	1000262-91-8	15





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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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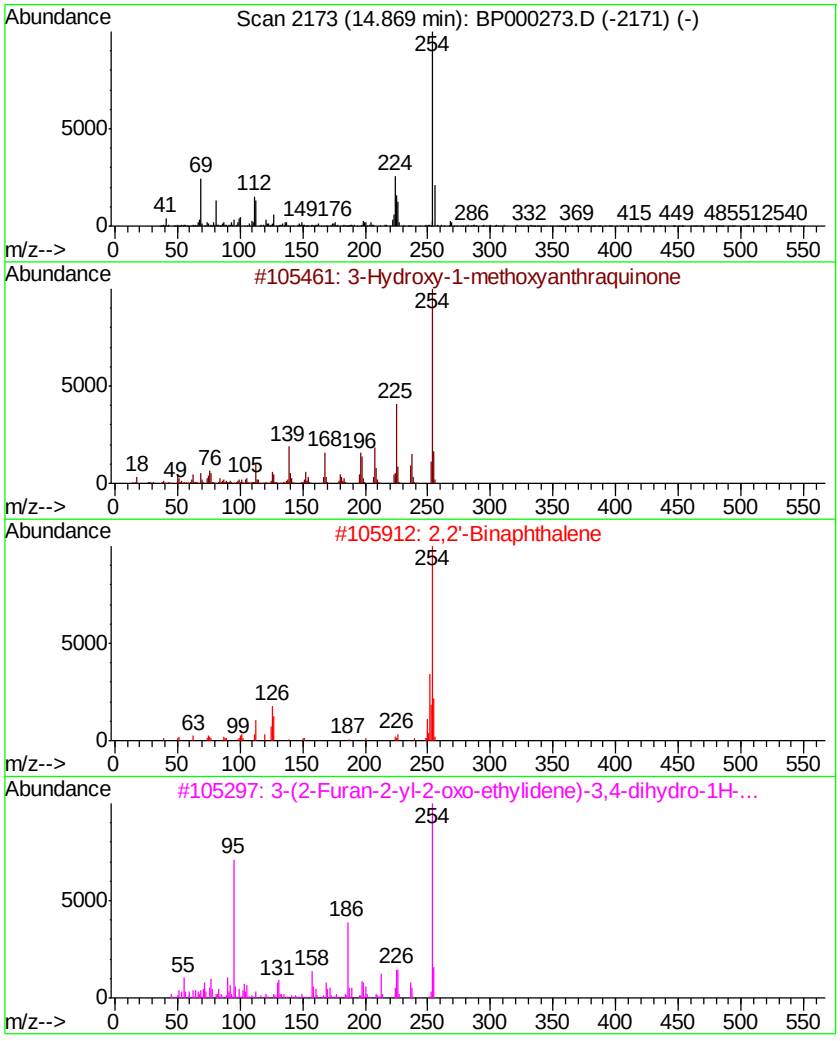
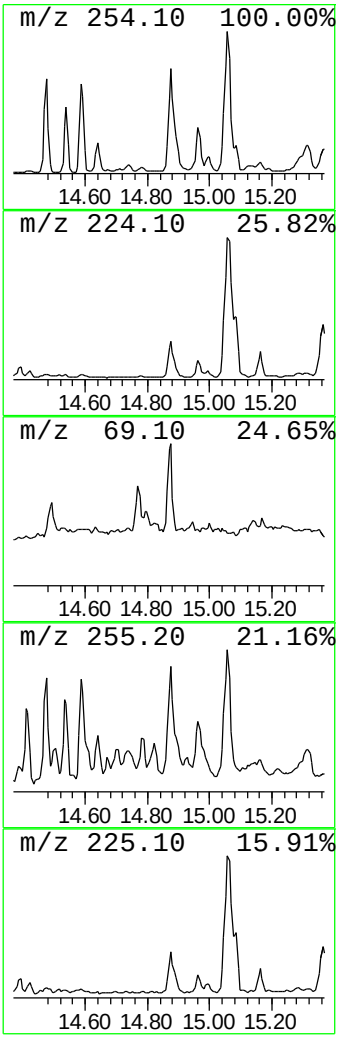
Peak Number 16 3-Hydroxy-1-methoxyanthraqu... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	4.64 ng	402914	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	58
2	2,2'-Binaphthalene	254	C20H14	000612-78-2	53
3	3-(2-Furan-2-yl-2-oxo-ethylidene...	254	C14H10N2O3	1000297-32-1	53
4	1,2'-Binaphthalene	254	C20H14	004325-74-0	50
5	Chrysin	254	C15H10O4	000480-40-0	50





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TIC Library : C:\DATABASE\NIST11.L
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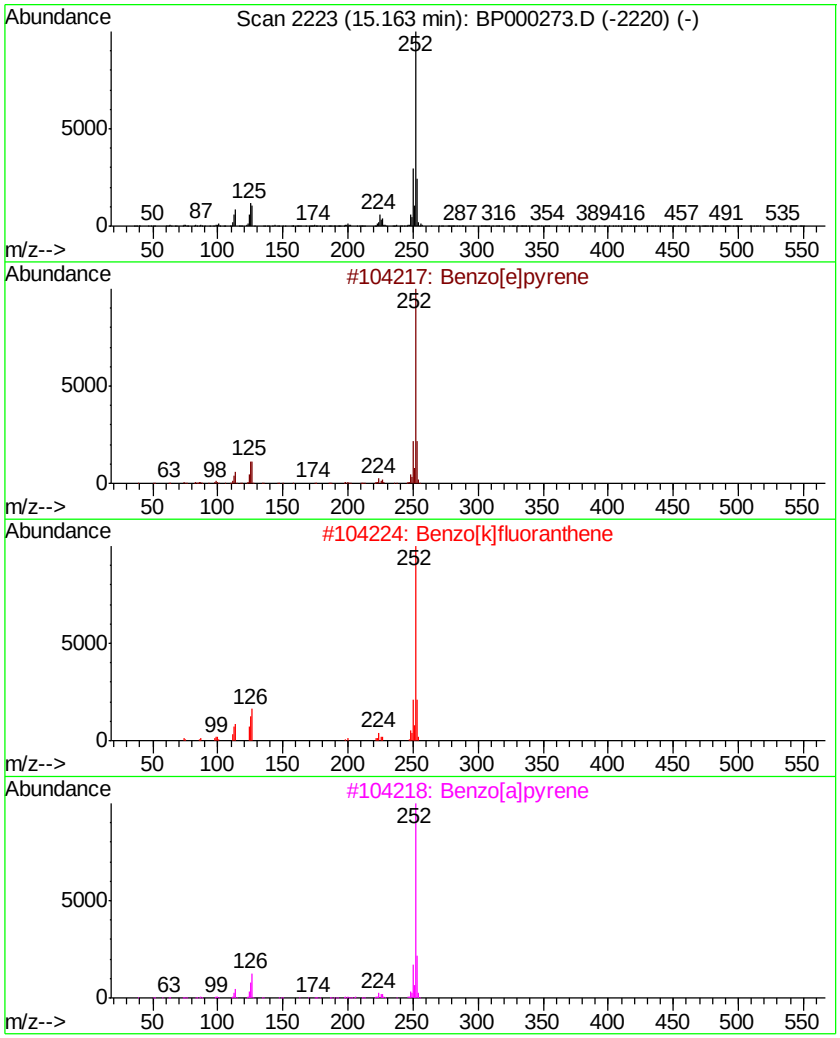
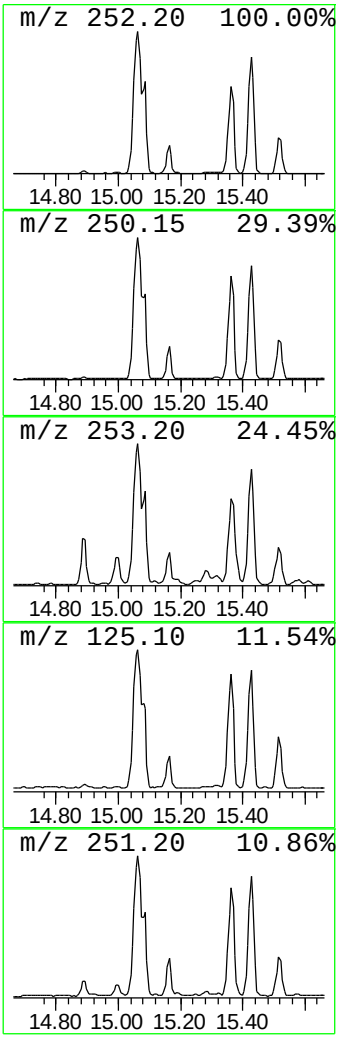
Peak Number 17 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	10.51 ng	912513	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Perylene	252	C20H12	000198-55-0	89





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Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.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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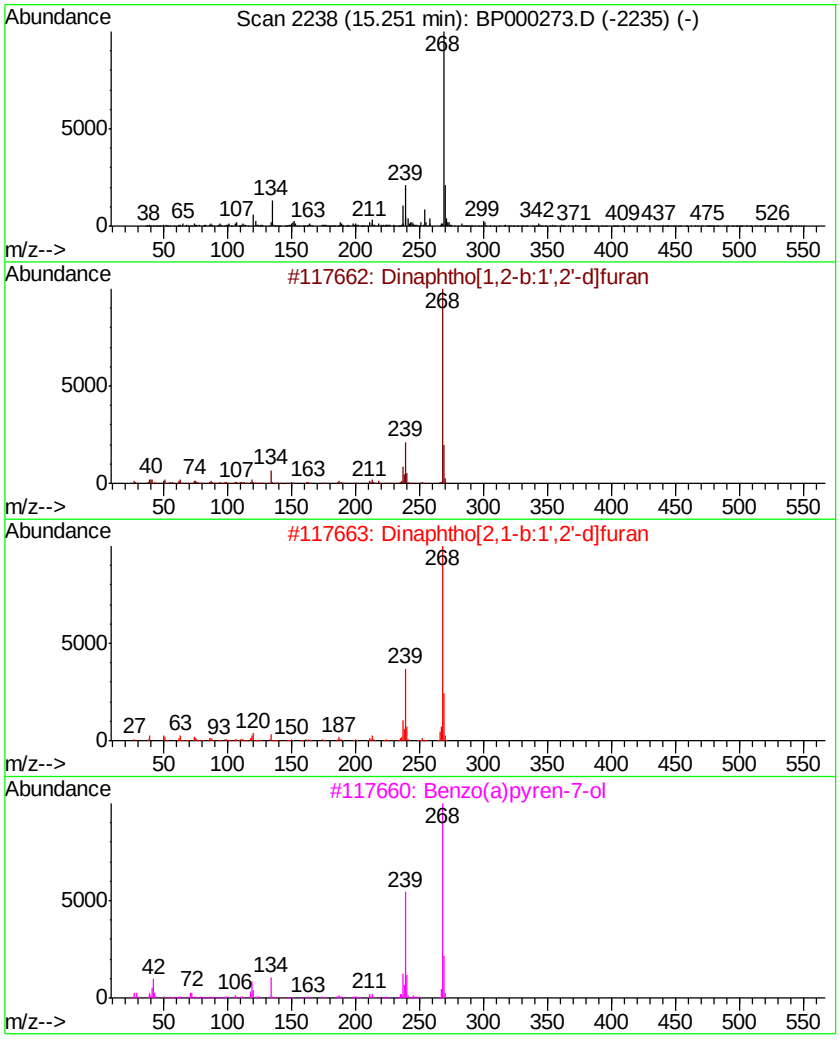
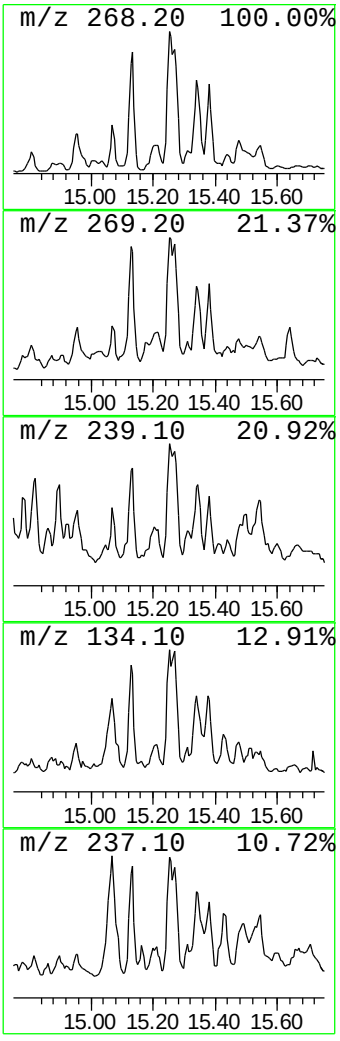
Peak Number 18 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.25	4.18 ng	362622	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	95
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	87
3	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	72
4	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	72
5	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091719\
Data File : BP000273.D
Acq On : 17 Sep 2019 15:24
Operator : HP/JU
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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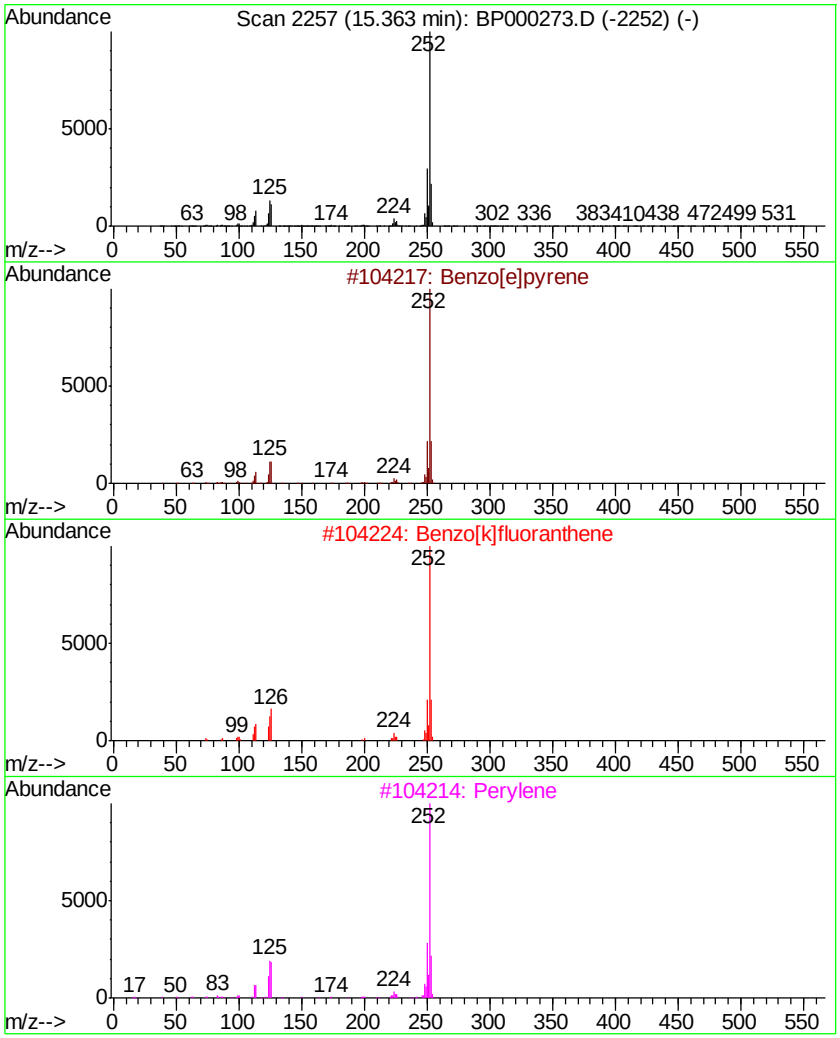
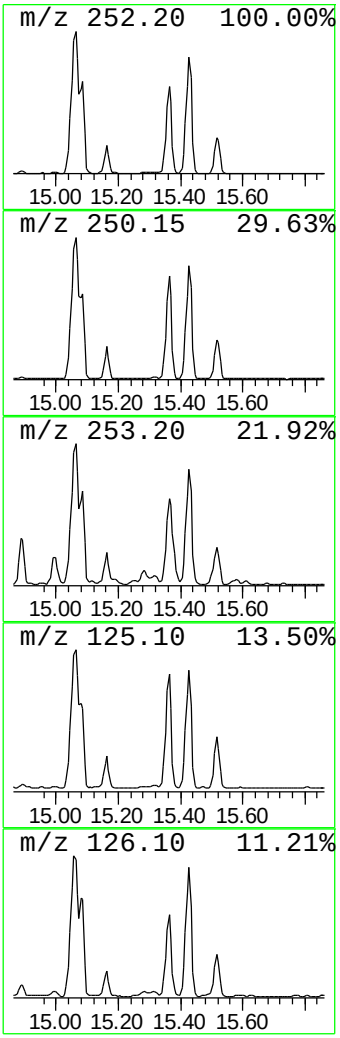
Peak Number 19 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	46.98 ng	4077930	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091719\
Data File : BP000273.D
Acq On : 17 Sep 2019 15:24
Operator : HP/JU
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.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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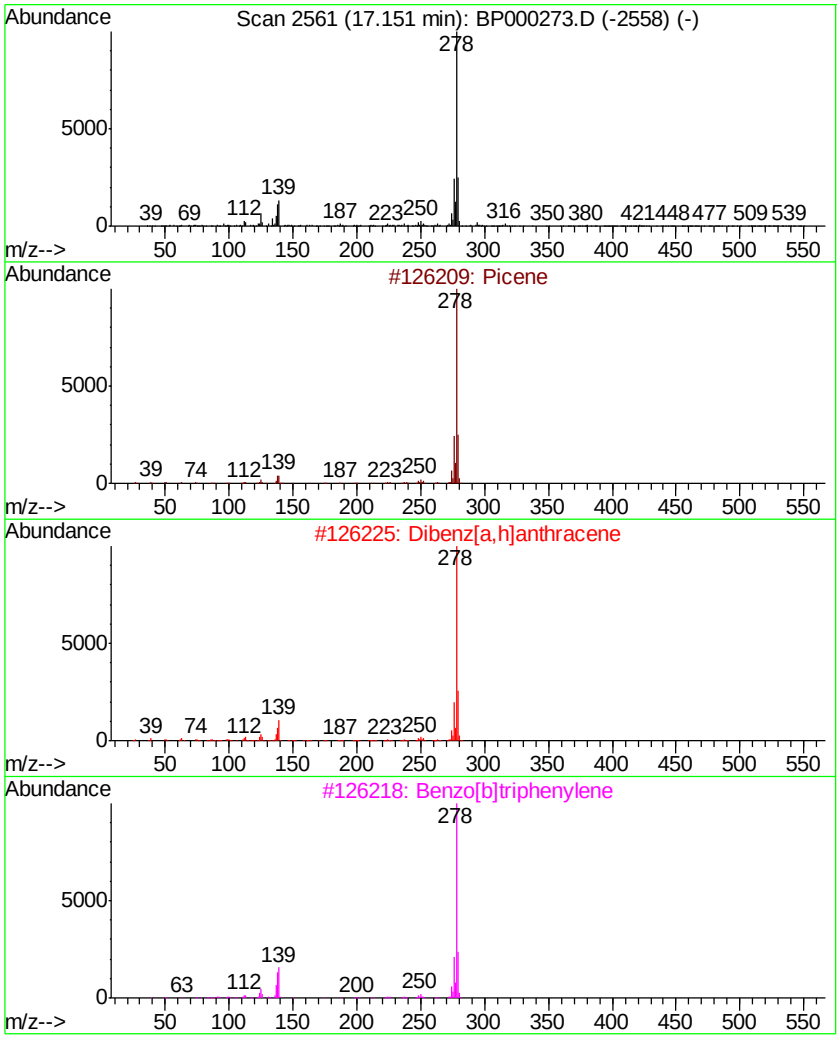
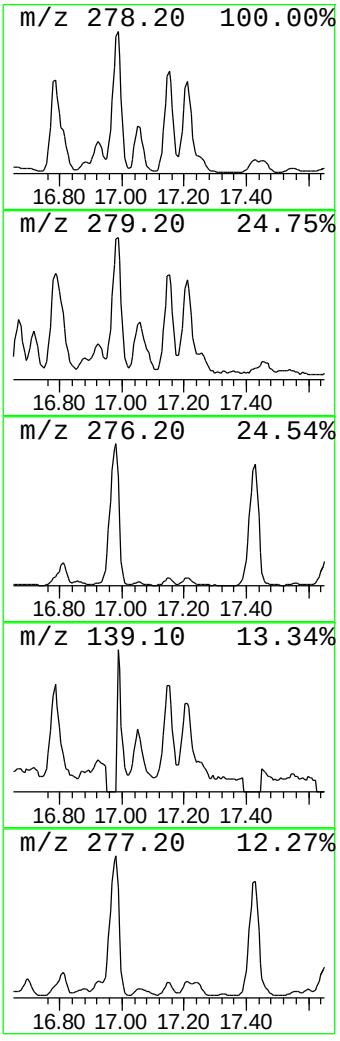
Peak Number 20 Picene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.15	4.42 ng	383759	Perylene-d12	15.49

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	98
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	98
4	Pentaphene	278	C22H14	000222-93-5	96
5	Benzo[b]chrysene	278	C22H14	000214-17-5	96





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091719\
Data File : BP000273.D
Acq On : 17 Sep 2019 15:24
Operator : HP/JU
Sample : K4918-10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : SB-11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP091619.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
unknown6.56	6.56	58.6	ng	4778290	1	6.79	1631010	20.0
9H-Fluoren-9-one	11.13	9.2	ng	1026590	4	11.33	2243920	20.0
Dibenzothiophene	11.22	7.3	ng	822849	4	11.33	2243920	20.0
Phenanthrene, 2-m...	11.83	12.8	ng	1438090	4	11.33	2243920	20.0
Phenanthrene, 1-m...	11.86	16.4	ng	1834550	4	11.33	2243920	20.0
Anthracene, 2-met...	11.91	4.9	ng	548069	4	11.33	2243920	20.0
4H-Cyclopenta[def...	11.95	19.6	ng	2197810	4	11.33	2243920	20.0
1H-Indene, 2-phenyl-	11.97	6.4	ng	721175	4	11.33	2243920	20.0
Naphthalene, 2-ph...	12.13	9.8	ng	1099000	4	11.33	2243920	20.0
Benzo[c]cinnoline	12.16	14.9	ng	1676170	4	11.33	2243920	20.0
Phenanthrene, 2,5...	12.39	10.3	ng	1156000	4	11.33	2243920	20.0
Cyclopenta(def)ph...	12.48	11.0	ng	1233820	4	11.33	2243920	20.0
11H-Benzo[a]fluor...	13.84	4.1	ng	2340580	5	14.00	11294900	20.0
13-Docosenamide, ...	14.77	6.6	ng	571096	6	15.49	1736010	20.0
3-Hydroxy-1-metho...	14.87	4.6	ng	402914	6	15.49	1736010	20.0
Benzo[e]pyrene	15.16	10.5	ng	912513	6	15.49	1736010	20.0
Dinaphtho[1,2-b:1...	15.25	4.2	ng	362622	6	15.49	1736010	20.0
Perylene	15.36	47.0	ng	4077930	6	15.49	1736010	20.0
Picene	17.15	4.4	ng	383759	6	15.49	1736010	20.0