LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

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-BP083019.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	2.176	10	15	22	rVB	1649439	2125380	15.17%	0.951%
2	5.511	577	582	585	rBV	7313907	6324966	45.15%	2.829%
3	6.511	747	752	755	rBV	7217711	6754459	48.22%	3.022%
4	6.658	773	777	780	rBV	8185689	6948619	49.61%	3.108%
5	6.893	813	817	820	rBV	2967585	2588158	18.48%	1.158%
6	7.046	839	843	847	rBV	7217947	5888731	42.04%	2.634%
7	7.446	906	911	914	rBV	5176751	4257860	30.40%	1.905%
8	8.169	1031	1034	1037	rBV	4111568	3470272	24.77%	1.552%
9	9.252	1214	1218	1221	rBV	11505340	9222096	65.84%	4.125%
10	9.640	1282	1284	1290	rVB	1284729	974498	6.96%	0.436%
11	9.793	1305	1310	1313	rBV	783339	607590	4.34%	0.272%
12	9.934	1328	1334	1337	rBV	5219975	4208337	30.04%	1.883%
13	9.963	1337	1339	1342	rVB	636655	538446	3.84%	0.241%
14	10.140	1365	1369	1372	rVB	511020	445550	3.18%	0.199%
15	10.481	1424	1427	1433	rVB	809260	719821	5.14%	0.322%
16	10.552	1433	1439	1441	rBV	175455	231281	1.65%	0.103%
17	10.646	1452	1455	1460	rVB	257358	265193	1.89%	0.119%
18	10.722	1464	1468	1473	rBV	6423593	5527052	39.46%	2.473%
19	10.852	1486	1490	1497	rVB2	206955	240975	1.72%	0.108%
20	11.034	1513	1521	1524	rBV4	249268	425578	3.04%	0.190%
21	11.228	1551	1554	1559	rVV	578460	526698	3.76%	0.236%
22	11.275	1559	1562	1566	rVV2	202324	300139	2.14%	0.134%
23	11.322	1568	1570	1576	rVB	655184	599764	4.28%	0.268%
24	11.434	1585	1589	1590	rBV	4415641	4332781	30.93%	1.938%
25	11.457	1590	1593	1596	rVV	12042603	9960263	71.11%	4.456%
26	11.504	1598	1601	1604	rVV	3244884	2575416	18.39%	1.152%
27	11.534	1604	1606	1610	rVB3	279209	285092	2.04%	0.128%
28	11.657	1621	1627	1630	rBV2	1340709	1443450	10.30%	0.646%
29	11.728	1637	1639	1643	rBV3	249481	242309	1.73%	0.108%
30	11.763	1643	1645	1650	rVB2	337228	277954	1.98%	0.124%
31	11.940	1668	1675	1677	rVV	1669892	1689348	12.06%	0.756%
32	11.963	1677	1679	1684	rVV	3001726	2485490	17.74%	1.112%
33	12.010	1684	1687	1690	rVV	1016821	840955	6.00%	0.376%
34	12.051	1690	1694	1696	rVV2	2568683	2804845	20.02%	1.255%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
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Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

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-BP083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.069	1696	1697	1701	rVB	1338936	937616	6.69%	0.419%
36	12.234	1722	1725	1727	rBV	1422076	1181880	8.44%	0.529%
37	12.251	1727	1728	1732	rVB	1068769	729850	5.21%	0.326%
38	12.387	1748	1751	1754	rVB	420456	316623	2.26%	0.142%
39	12.440	1758	1760	1763	rVB	382508	316517	2.26%	0.142%
40	12.493	1765	1769	1772	rBV2	1060932	1211134	8.65%	0.542%
41	12.534	1772	1776	1778	rVV2	575514	782246	5.58%	0.350%
42	12.575	1781	1783	1789	rVB3	840372	954609	6.81%	0.427%
43	12.657	1793	1797	1801	rVV	12551378	12590754	89.89%	5.632%
44	12.716	1801	1807	1810	rBV3	273875	441647	3.15%	0.198%
45	12.751	1810	1813	1815	rVB2	356304	287078	2.05%	0.128%
46	12.781	1815	1818	1820	rBV2	280237	315834	2.25%	0.141%
47	12.810	1820	1823	1827	rVV	460034	473955	3.38%	0.212%
48	12.893	1830	1837	1840	rBV2	12057410	14007523	100.00%	6.266%
49	12.934	1842	1844	1850	rVB2	677154	799667	5.71%	0.358%
50	13.004	1853	1856	1858	rBV	901635	832597	5.94%	0.372%
51	13.034	1858	1861	1868	rVB	10859095	9811359	70.04%	4.389%
52	13.110	1868	1874	1877	rBV2	1007450	1711472	12.22%	0.766%
53	13.169	1881	1884	1886	rBV3	249867	304300	2.17%	0.136%
54	13.193	1886	1888	1890	rVV3	737918	866086	6.18%	0.387%
55	13.216	1890	1892	1895	rVB	1870915	1571231	11.22%	0.703%
56	13.251	1895	1898	1900	rBV	195463	237767	1.70%	0.106%
57	13.287	1900	1904	1906	rVB	933753	853840	6.10%	0.382%
58	13.322	1906	1910	1913	rBV2	1685339	1640910	11.71%	0.734%
59	13.381	1918	1920	1923	rBV2	270894	253494	1.81%	0.113%
60	13.416	1923	1926	1929	rVV	909900	709839	5.07%	0.318%
61	13.446	1929	1931	1935	rVV	886056	827137	5.90%	0.370%
62	13.522	1941	1944	1953	rVB5	374907	571347	4.08%	0.256%
63	13.598	1954	1957	1958	rBV2	247771	249060	1.78%	0.111%
64	13.622	1958	1961	1963	rVB4	334983	322065	2.30%	0.144%
65	13.728	1975	1979	1984	rVB	1152568	1335983	9.54%	0.598%
66	13.840	1994	1998	2001	rBV2	895233	1383250	9.88%	0.619%
67	13.875	2001	2004	2005	rVV	1200417	1101987	7.87%	0.493%
68	13.893	2005	2007	2011	rVV2	996732	1373250	9.80%	0.614%
69	13.940	2011	2015	2022	rVB3	1962659	2634141	18.81%	1.178%
70	14.093	2034	2041	2044	rBV3	8578375	12121790	86.54%	5.423%
71	14.128	2044	2047	2052	rVB	6444526	6192266	44.21%	2.770%

LSC Area Percent Report

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Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

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-BP083019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.204	2055	2060	2063	rBV2	887477	1078812	7.70%	0.483%
73	14.281	2070	2073	2076	rVB2	699173	776397	5.54%	0.347%
74	14.316	2076	2079	2084	rBV2	753639	892625	6.37%	0.399%
75	14.357	2084	2086	2088	rVB2	349270	267818	1.91%	0.120%
76	14.422	2094	2097	2100	rVB3	317603	306614	2.19%	0.137%
77	14.451	2100	2102	2104	rBV	418703	405780	2.90%	0.182%
78	14.487	2104	2108	2111	rVV	1461239	1643074	11.73%	0.735%
79	14.522	2111	2114	2117	rVV	944372	857586	6.12%	0.384%
80	14.581	2118	2124	2127	rVV3	820391	1189037	8.49%	0.532%
81	14.616	2127	2130	2132	rVV	745636	701557	5.01%	0.314%
82	14.640	2132	2134	2137	rVB2	634078	578055	4.13%	0.259%
83	14.693	2137	2143	2149	rVB3	442542	745275	5.32%	0.333%
84	14.798	2158	2161	2165	rBV2	322518	456286	3.26%	0.204%
85	14.893	2174	2177	2178	rBV3	229865	251026	1.79%	0.112%
86	14.981	2189	2192	2194	rBV2	400929	477031	3.41%	0.213%
87	15.075	2204	2208	2211	rBV2	273968	340563	2.43%	0.152%
88	15.175	2219	2225	2228	rBV	5007499	8566699	61.16%	3.832%
89	15.281	2239	2243	2250	rVB	1182612	1470645	10.50%	0.658%
90	15.381	2256	2260	2261	rBV2	273957	354030	2.53%	0.158%
91	15.492	2274	2279	2285	rVB	3194207	4471255	31.92%	2.000%
92	15.557	2285	2290	2296	rBV	4800363	6016149	42.95%	2.691%
93	15.622	2296	2301	2304	rBV2	3042141	4054007	28.94%	1.814%
94	15.651	2304	2306	2314	rVB2	1367781	2015629	14.39%	0.902%
95	16.992	2526	2534	2540	rVB3	456630	1271879	9.08%	0.569%
96	17.169	2557	2564	2572	rVB2	2432955	4969670	35.48%	2.223%
97	17.351	2590	2595	2600	rVB	436424	725996	5.18%	0.325%
98	17.416	2601	2606	2611	rBV2	456518	879721	6.28%	0.394%
99	17.634	2635	2643	2657	rVB	2001862	4449767	31.77%	1.991%
100	17.869	2678	2683	2691	rVB	470724	944594	6.74%	0.423%

Sum of corrected areas: 223539047

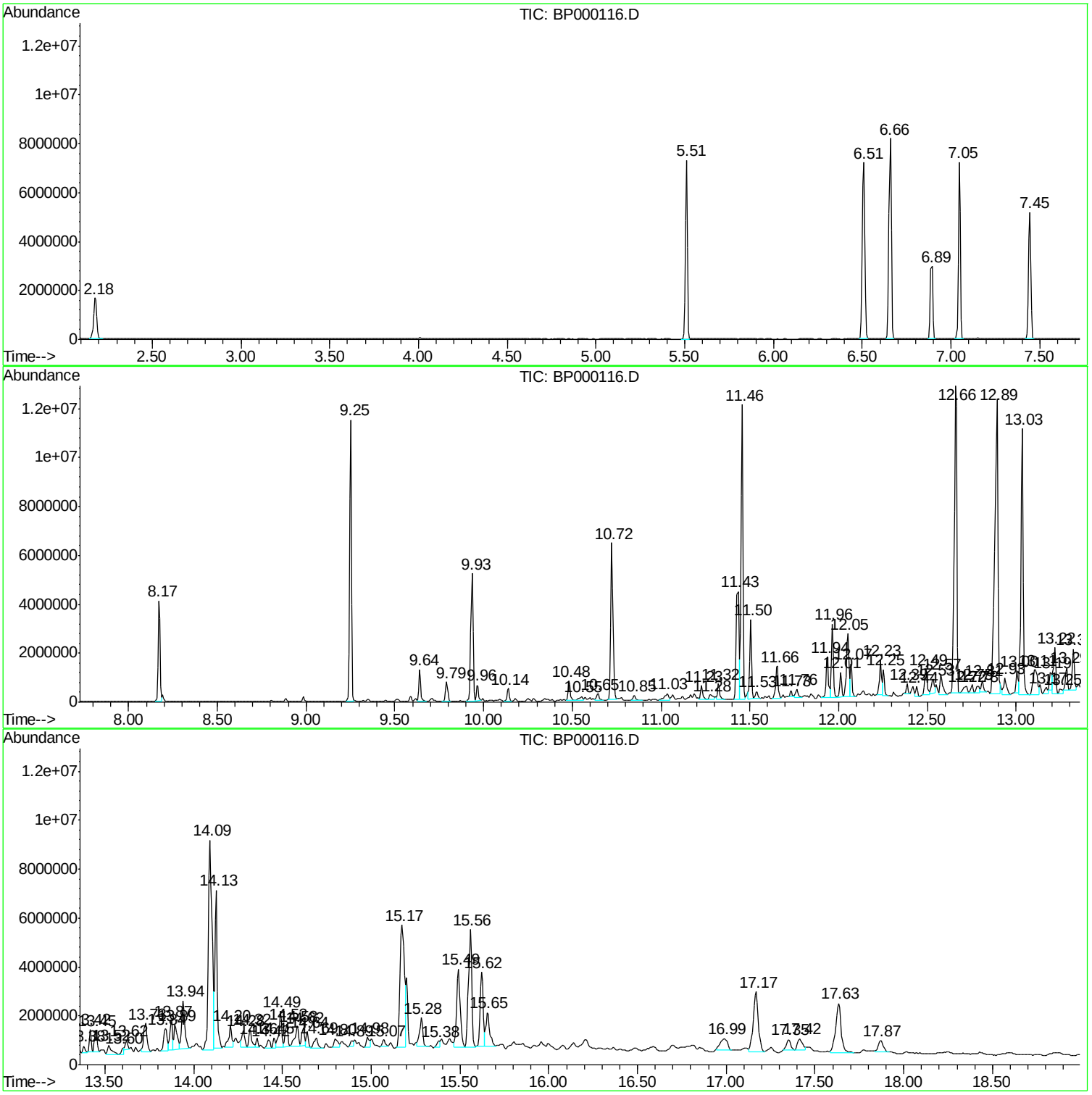
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.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 P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
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Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

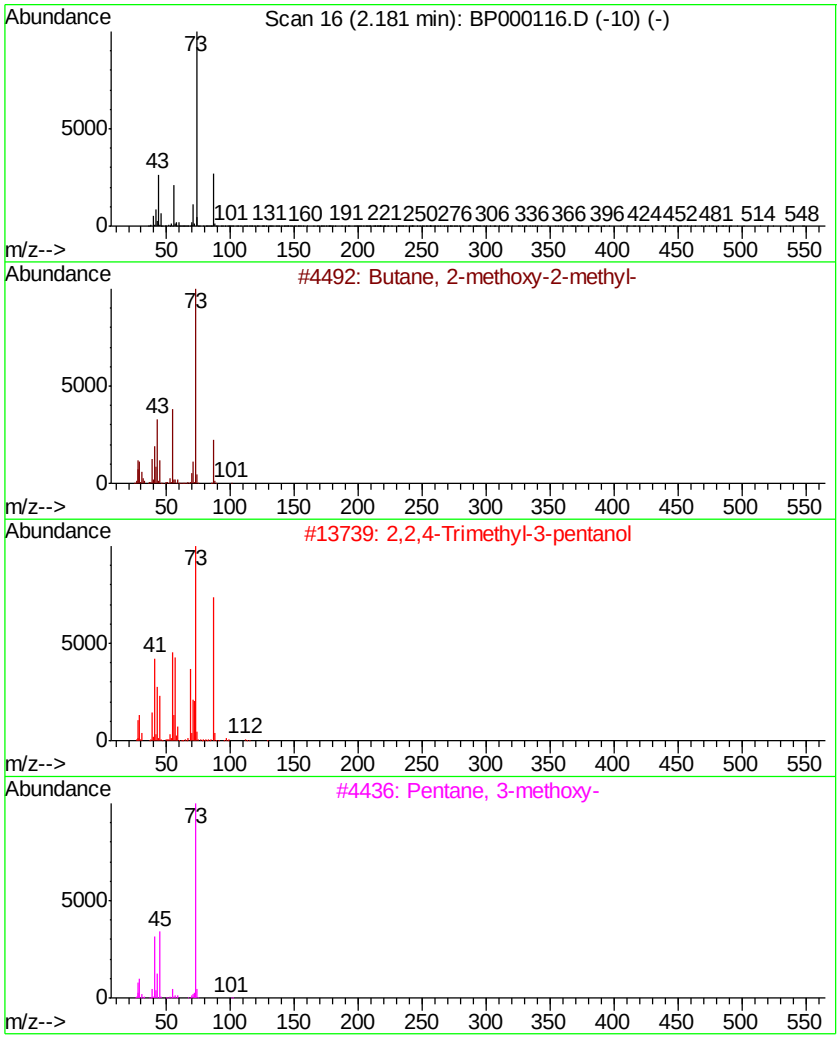
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

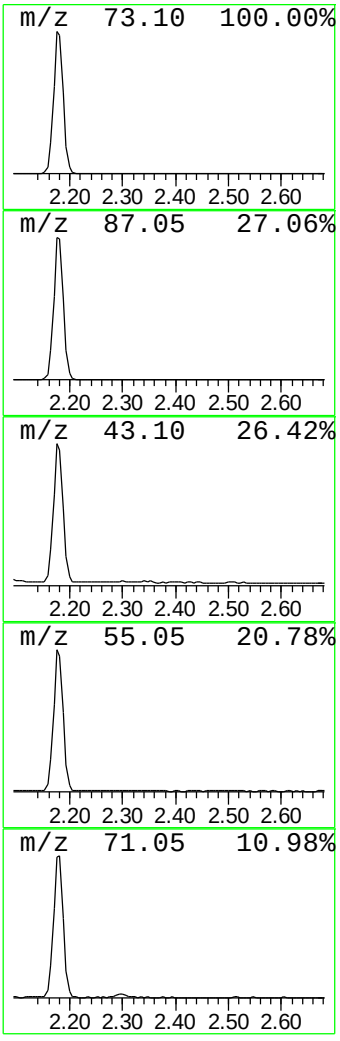
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.18	16.42 ng	2125380	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
4	N-Ethylformamide	73	C3H7NO	000627-45-2	9
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

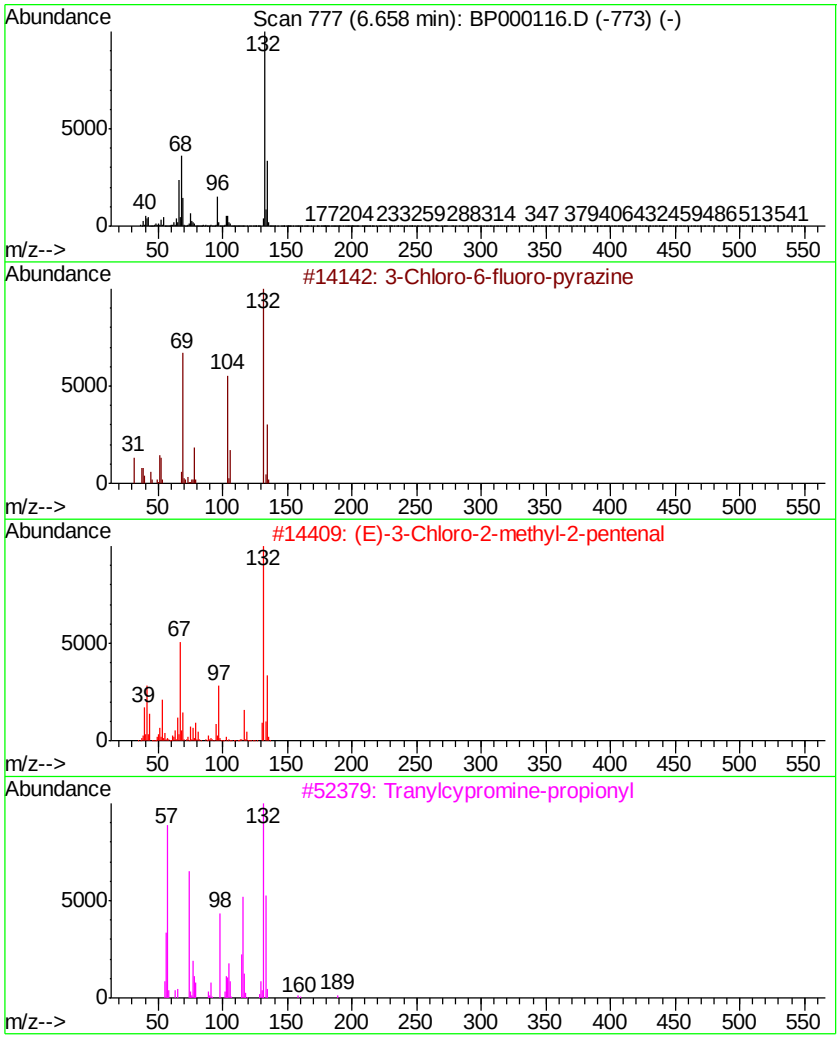
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

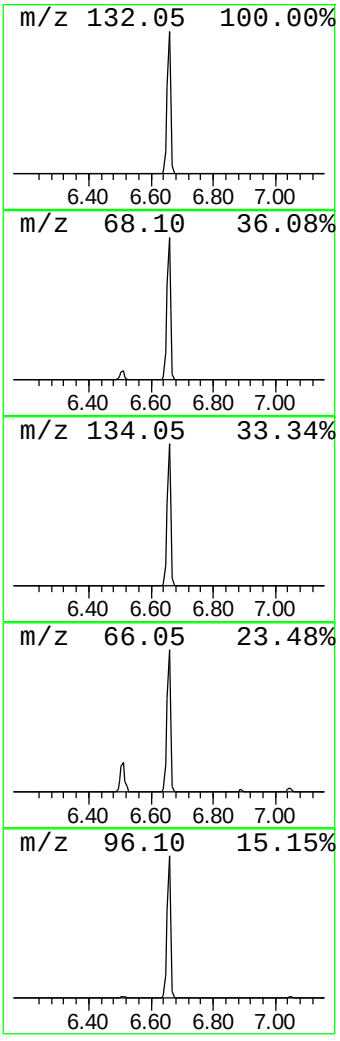
****

Peak Number 2 unknown6.66 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	53.70 ng	6948620	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	16
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9





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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

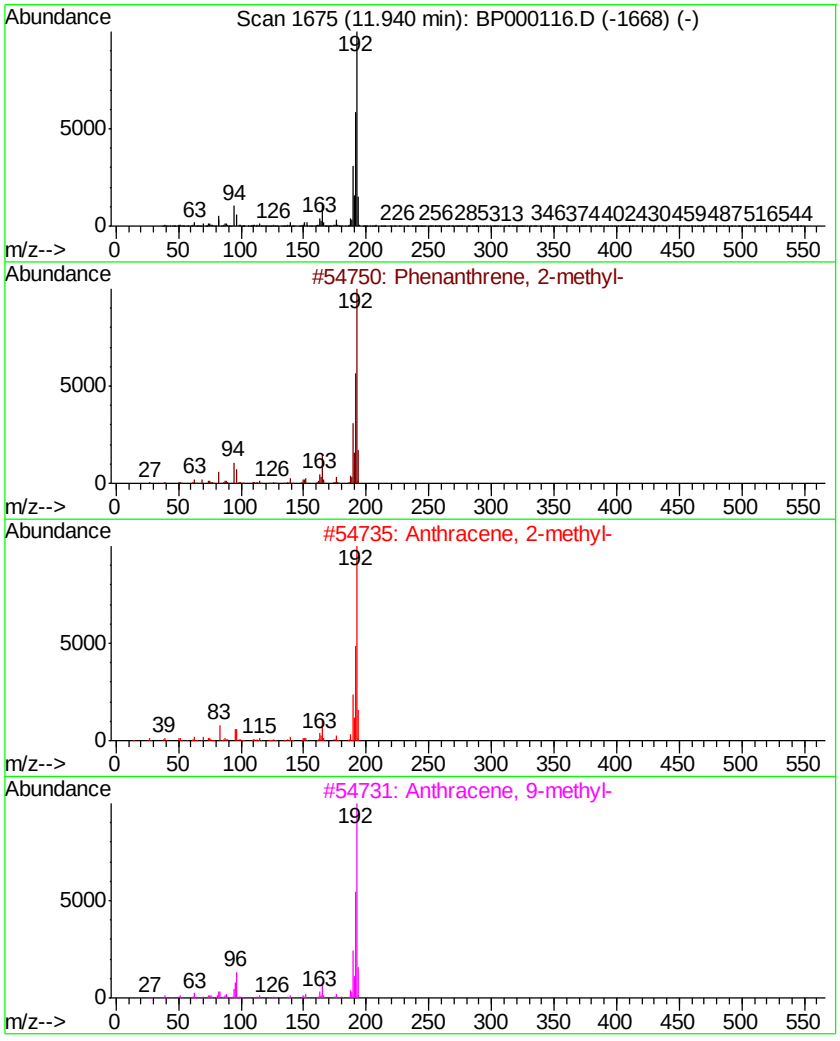
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

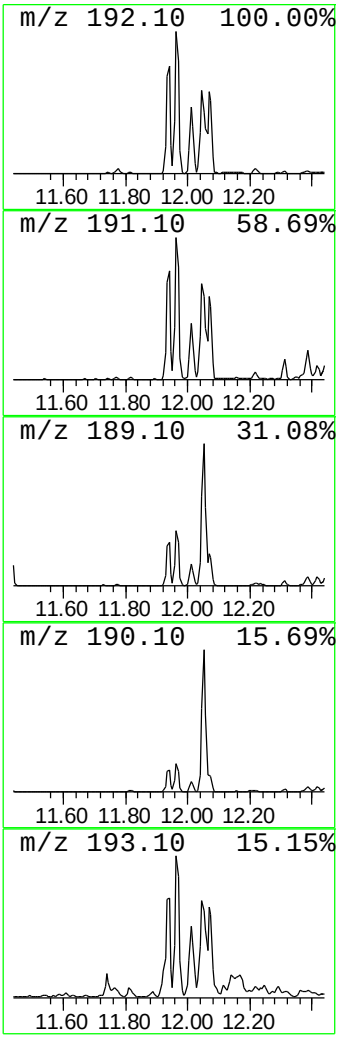
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	7.80 ng	1689350	Phenanthrene-d10	11.43

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





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

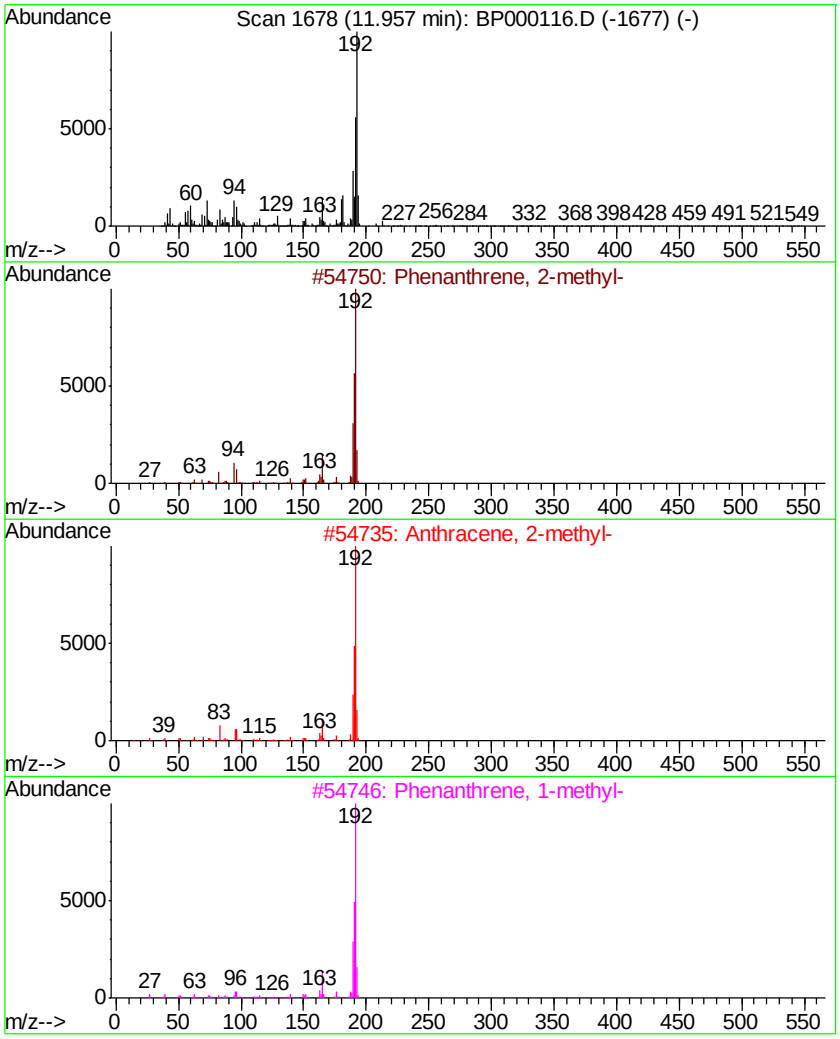
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

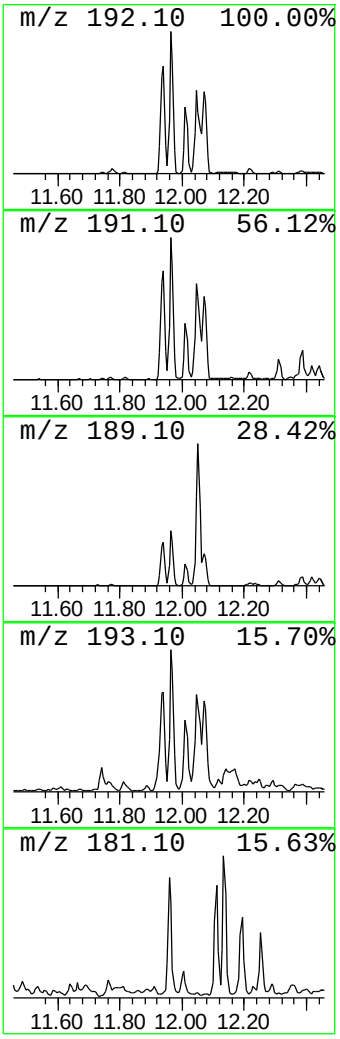
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	11.47 ng	2485490	Phenanthrene-d10	11.43

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	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





Library Search Compound Report

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Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

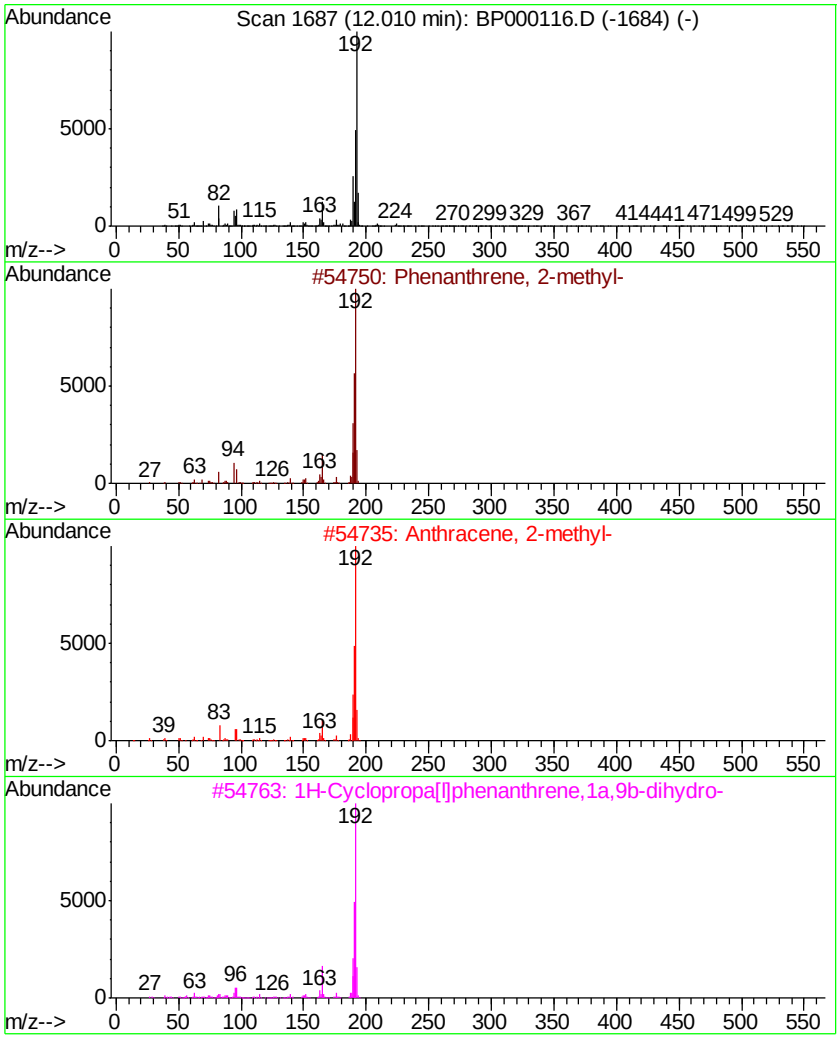
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

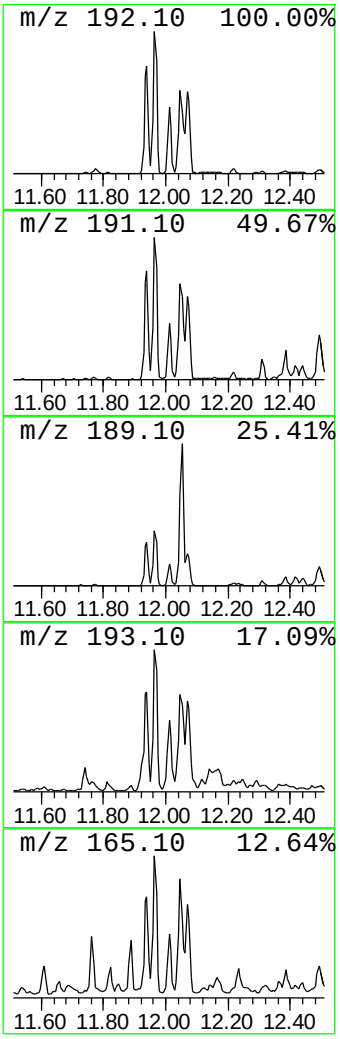
****

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	3.88 ng	840955	Phenanthrene-d10	11.43

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	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	97
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	96





Library Search Compound Report

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Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
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ClientSampleId : B-4(3-4)

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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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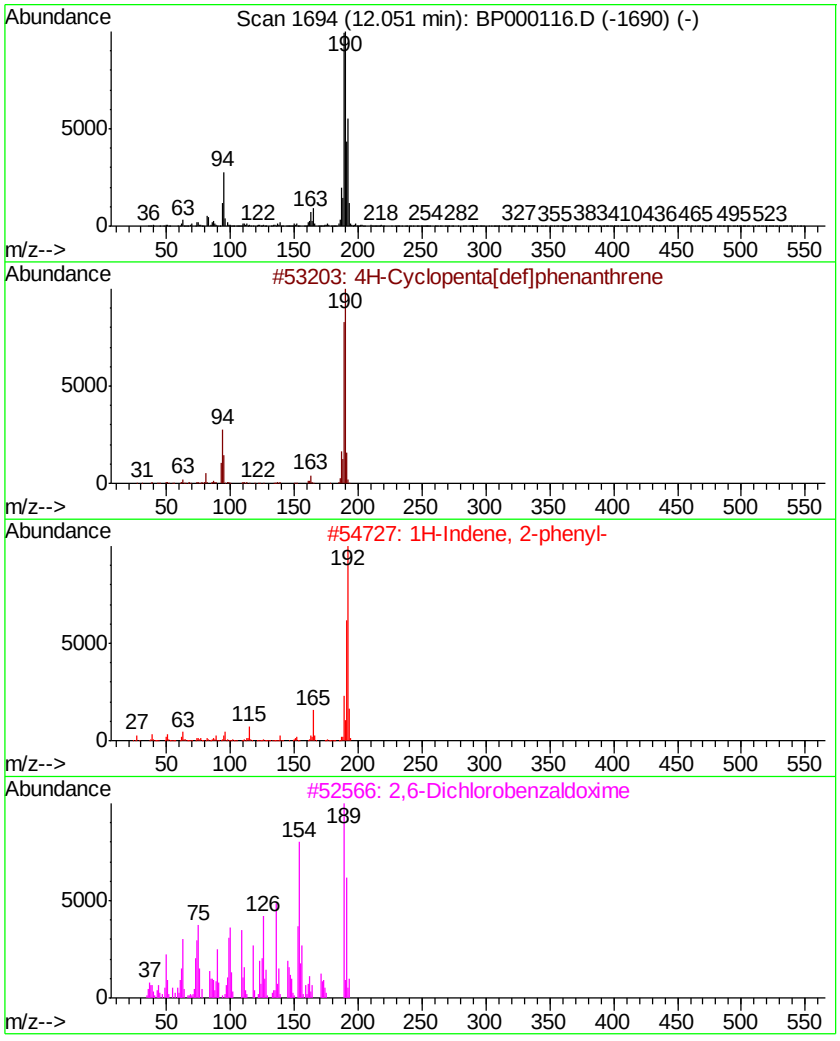
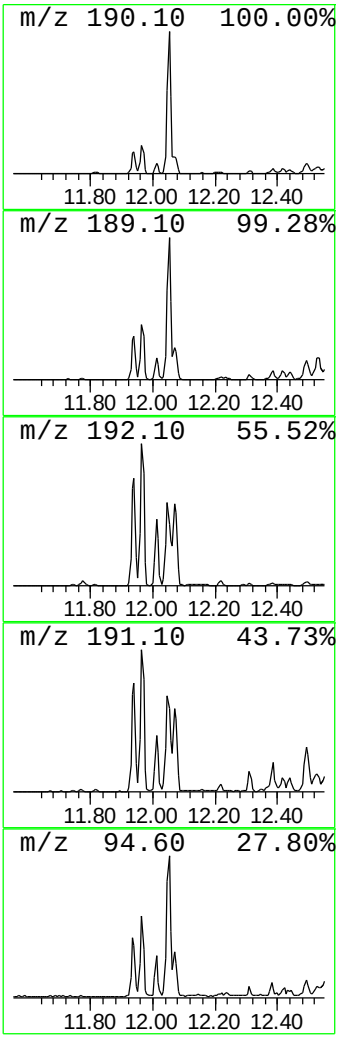
Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	12.95 ng	2804850	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	35
3	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	25
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	25





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ClientSampleId : B-4(3-4)

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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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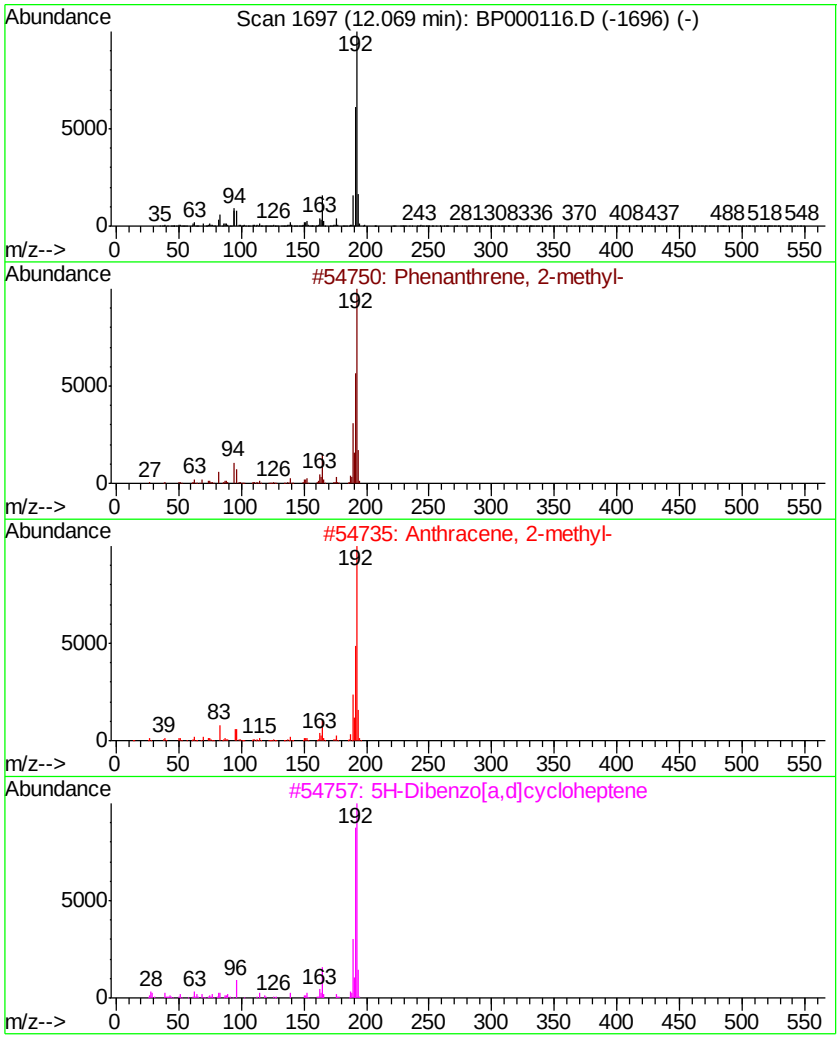
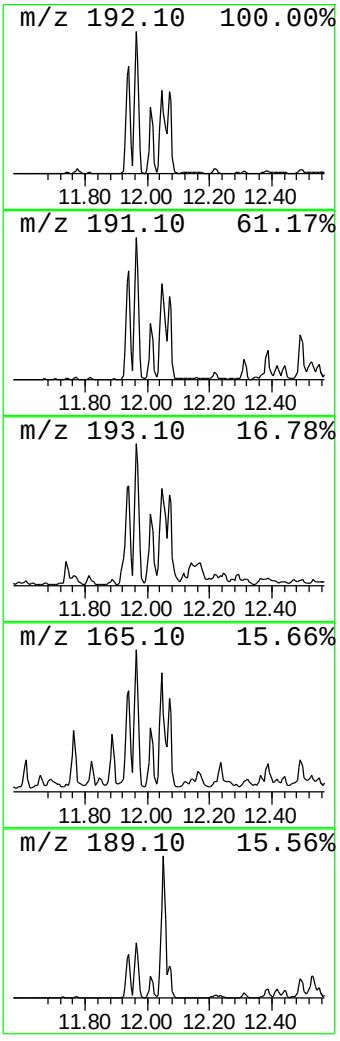
Peak Number 8 5H-Dibenzo[a,d]cycloheptene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	4.33 ng	937616	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	87
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87





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Instrument : BNA_P
ClientSampleId : B-4(3-4)

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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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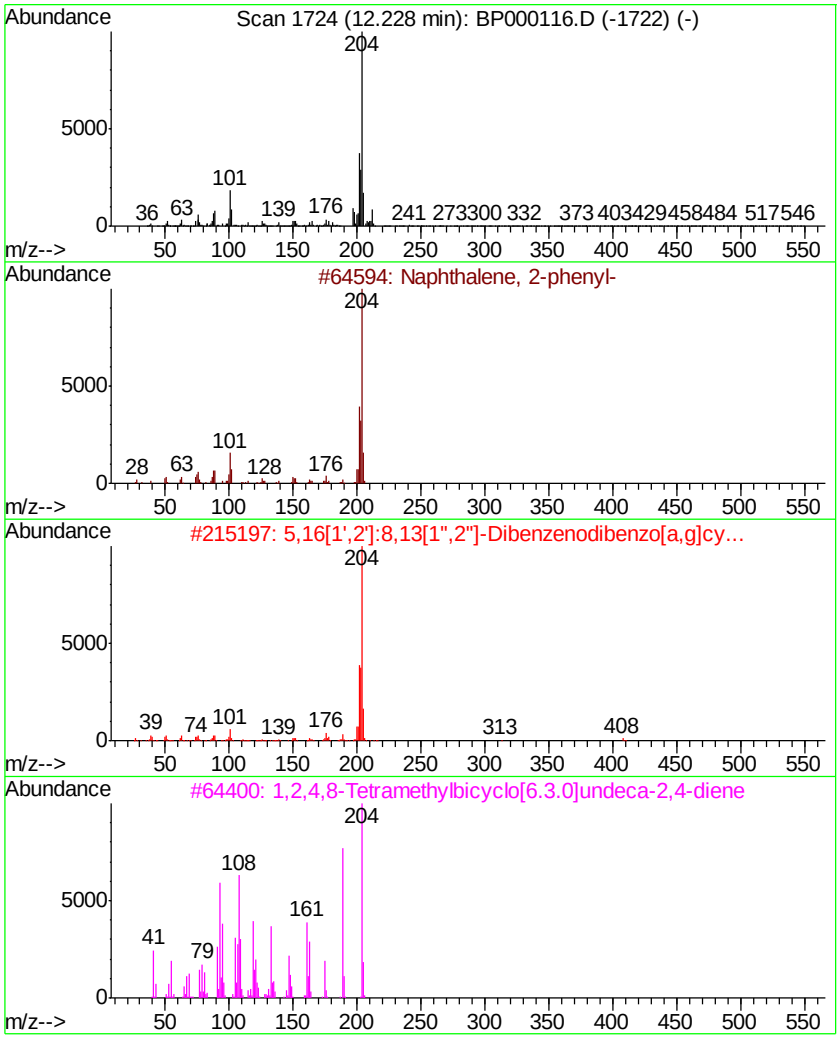
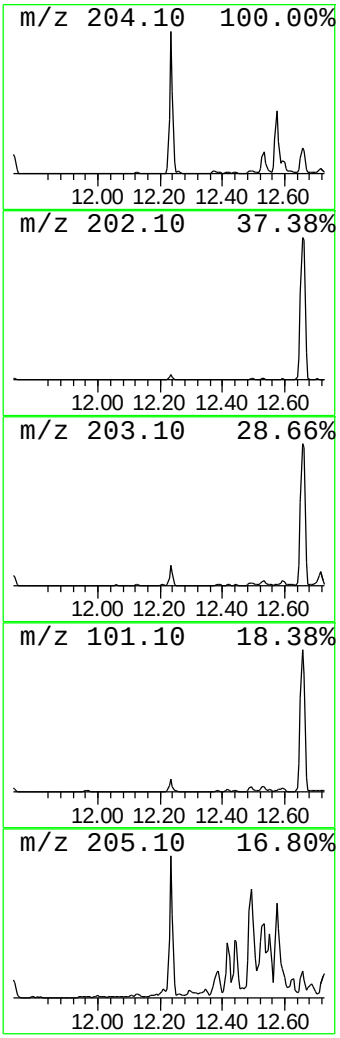
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	5.46 ng	1181880	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
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	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49





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ClientSampleId : B-4(3-4)

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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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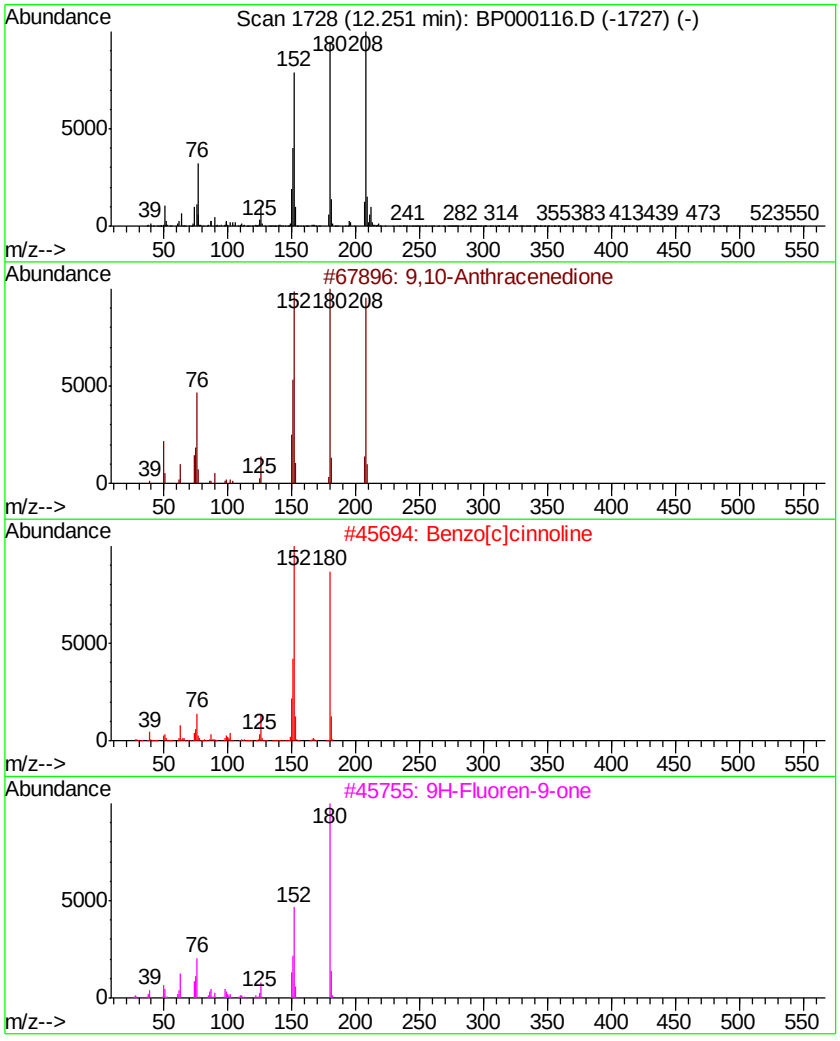
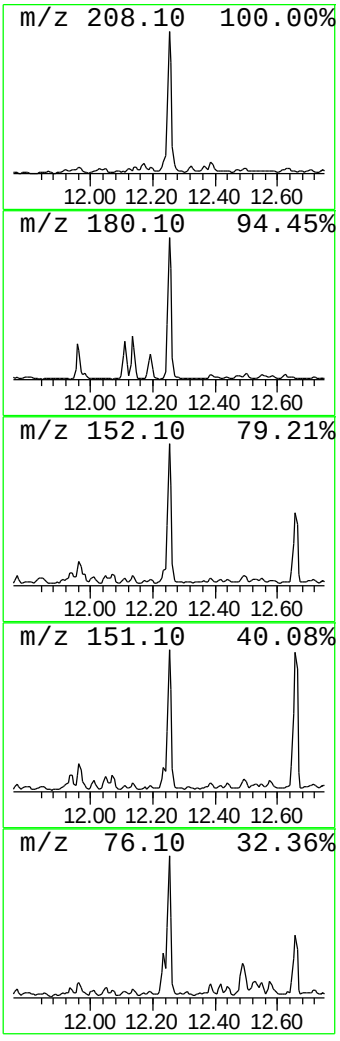
Peak Number 10 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	3.37 ng	729850	Phenanthrene-d10	11.43

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	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	1H-Phenalen-1-one	180	C13H8O	000548-39-0	49
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	46





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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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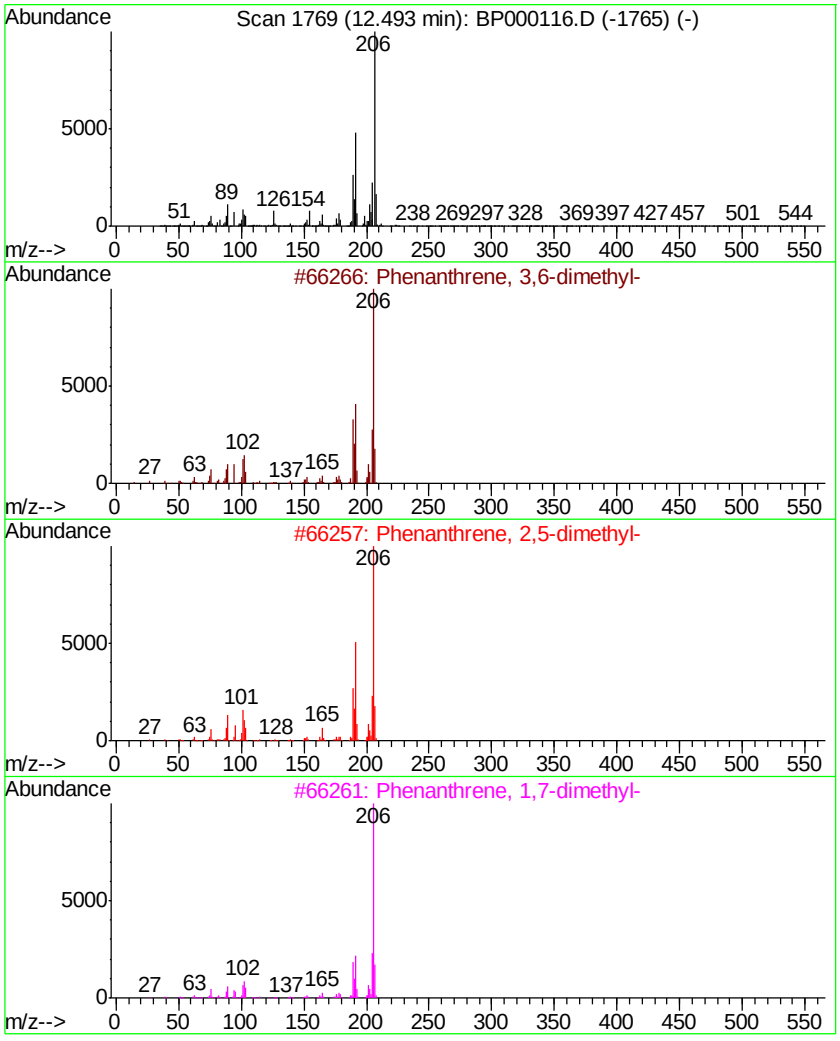
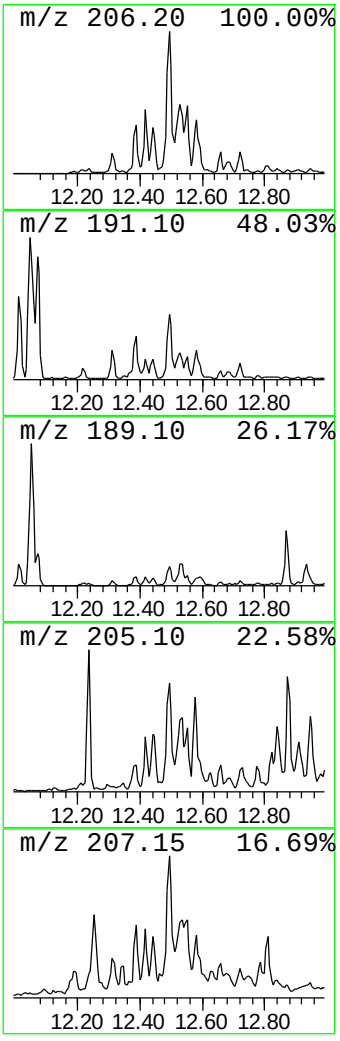
Peak Number 11 Phenanthrene, 3,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	5.59 ng	1211130	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	89





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

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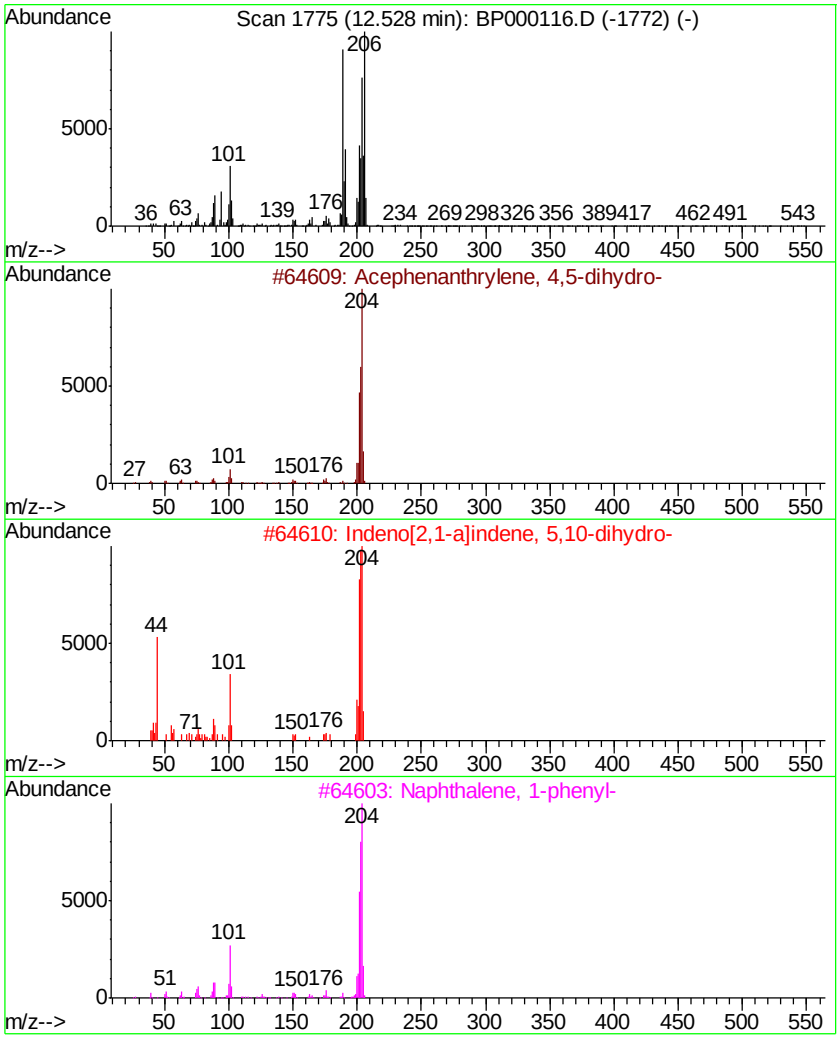
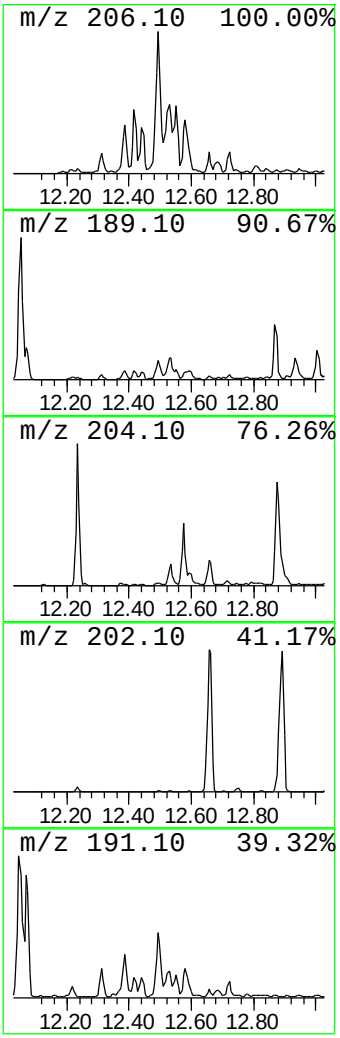
Peak Number 12 Acephenanthrylene, 4,5-dihy... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.53	3.61 ng	782246	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	72
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	53
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	45
4	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35





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ClientSampleId : B-4(3-4)

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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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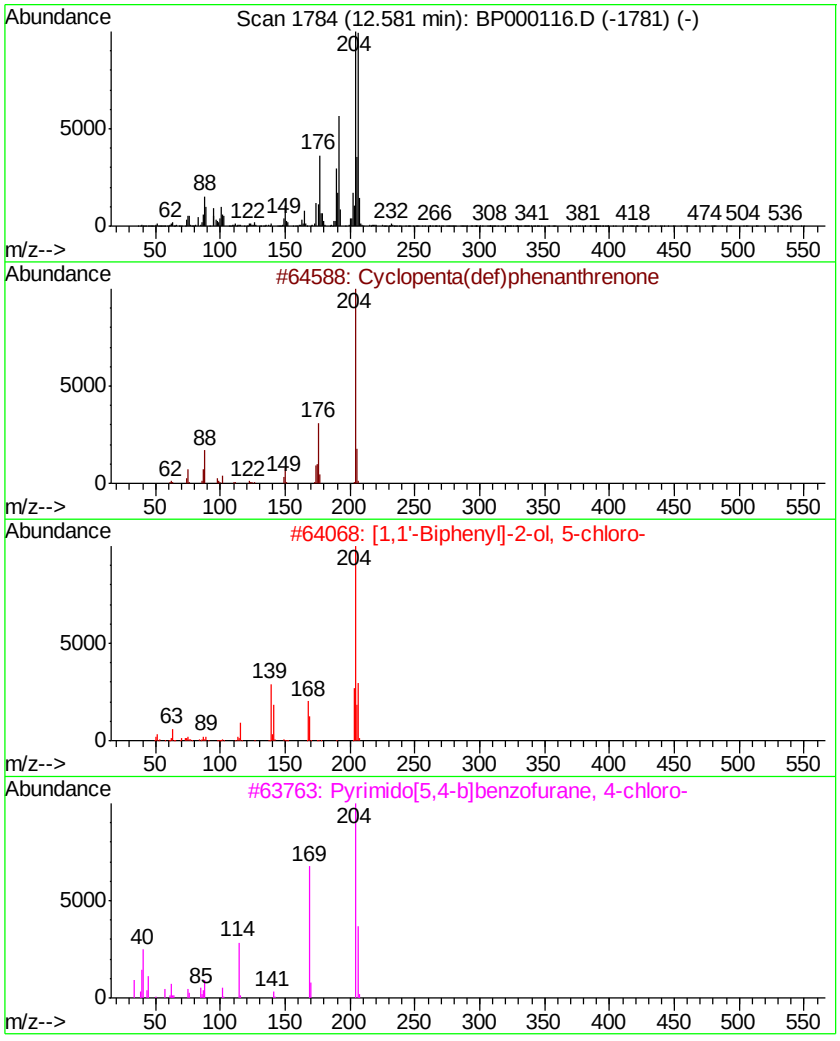
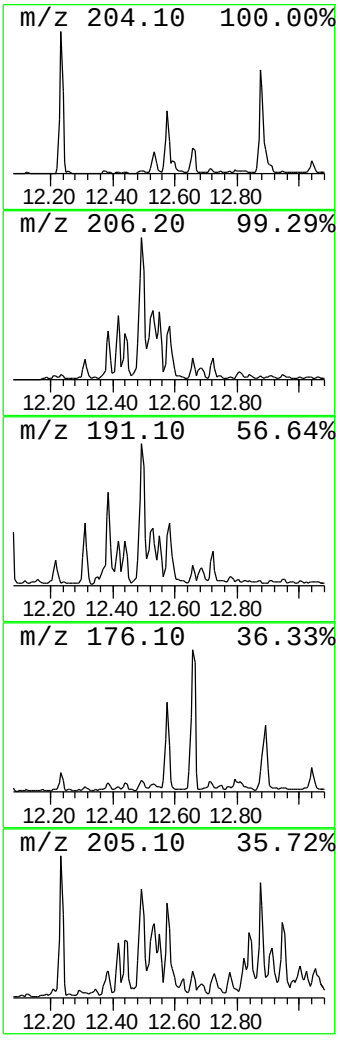
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	4.41 ng	954609	Phenanthrene-d10	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	98
2	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43
3	Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	43
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43
5	2-Chloro-4-phenylphenol	204	C12H9ClO	000092-04-6	38





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ClientSampleId : B-4(3-4)

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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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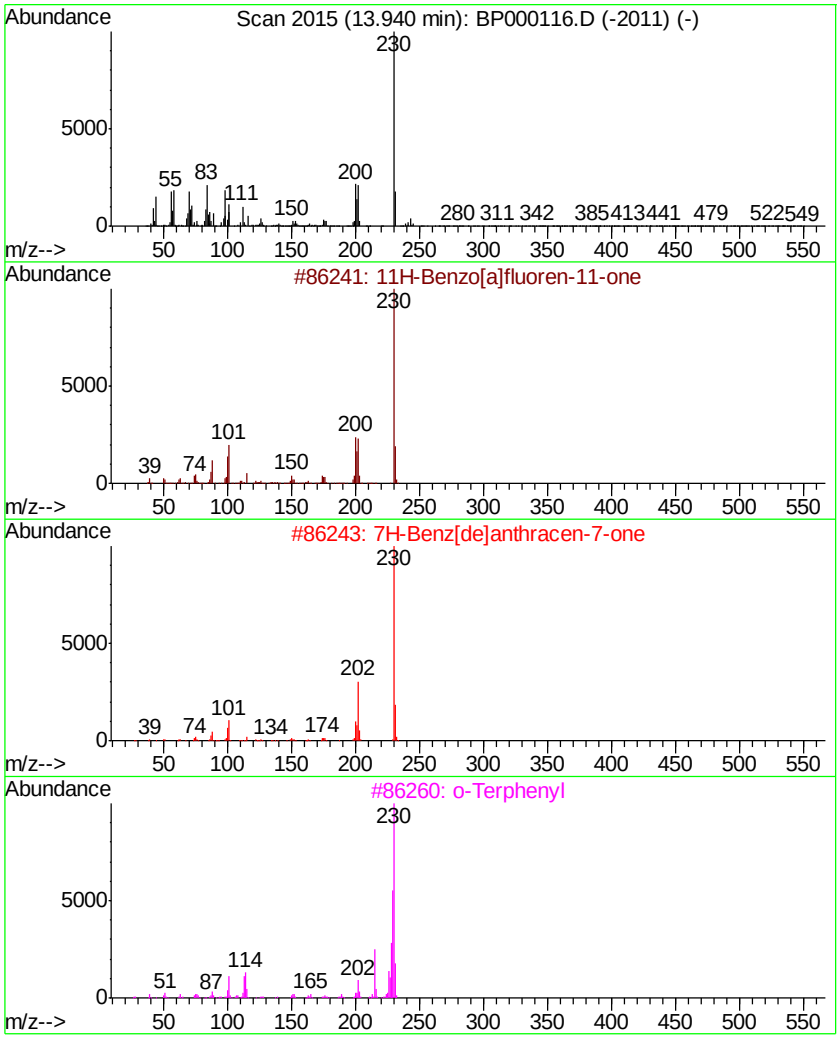
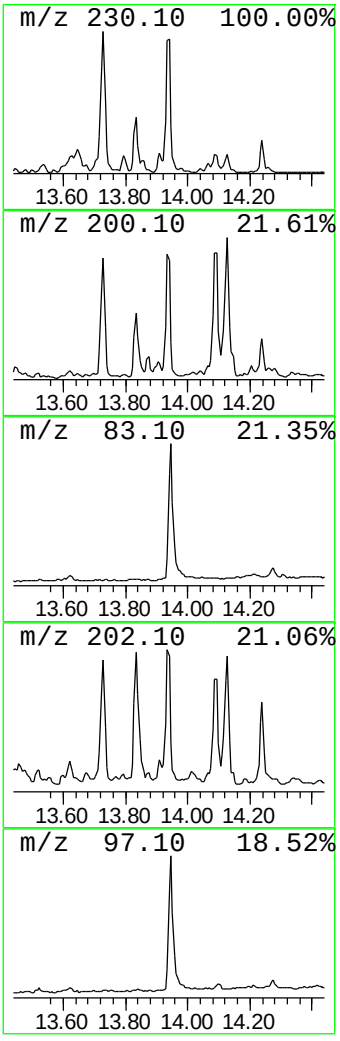
Peak Number 14 11H-Benzo[a]fluoren-11-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	4.35 ng	2634140	Chrysene-d12	14.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	60
3	o-Terphenyl	230	C18H14	000084-15-1	47
4	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	47
5	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	45





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ClientSampleId : B-4(3-4)

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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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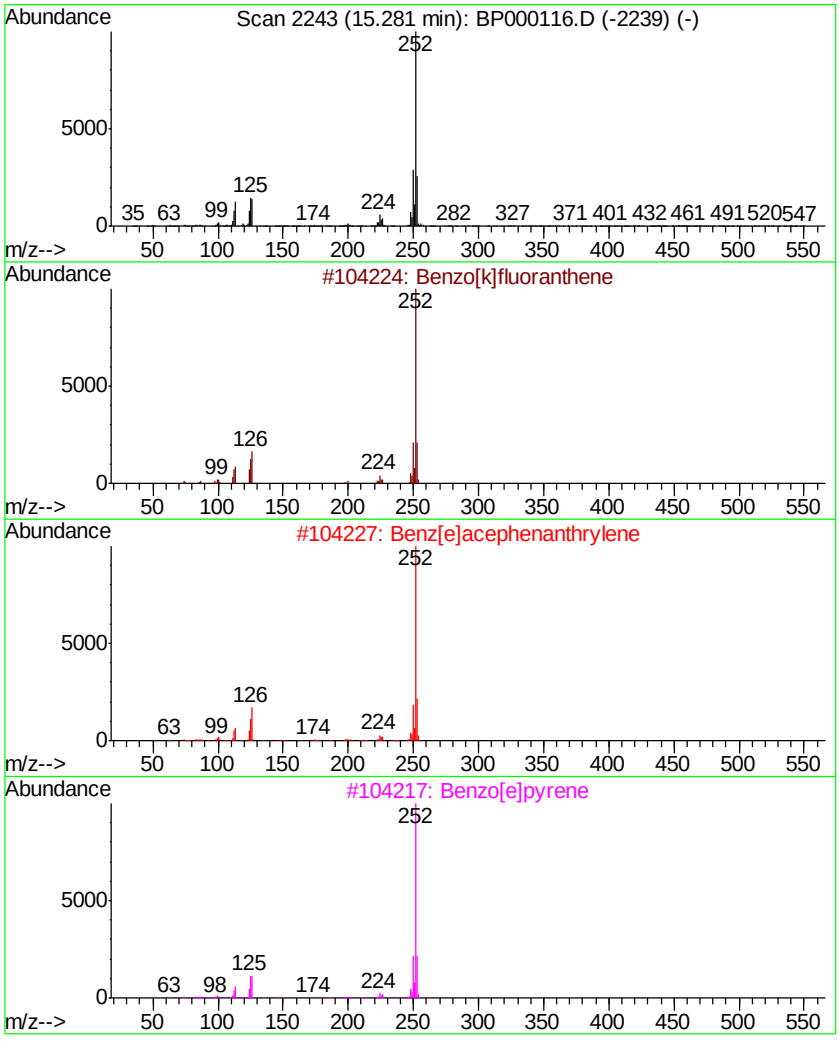
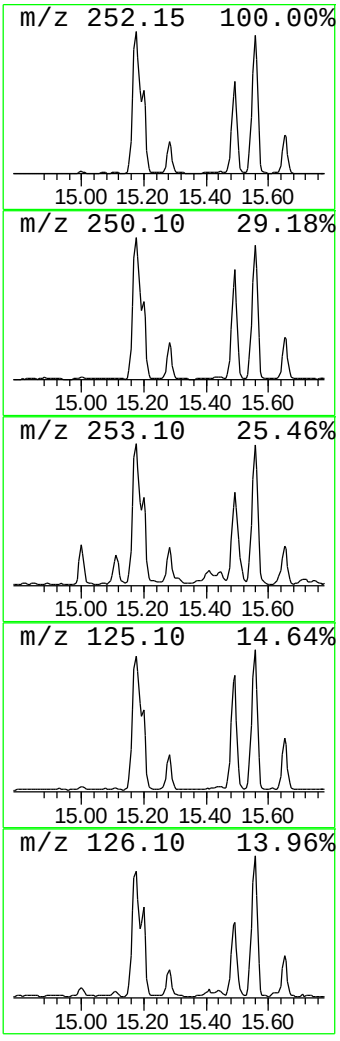
Peak Number 15 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.28	7.26 ng	1470650	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[e]pyrene	252	C20H12	000192-97-2	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Perylene	252	C20H12	000198-55-0	81





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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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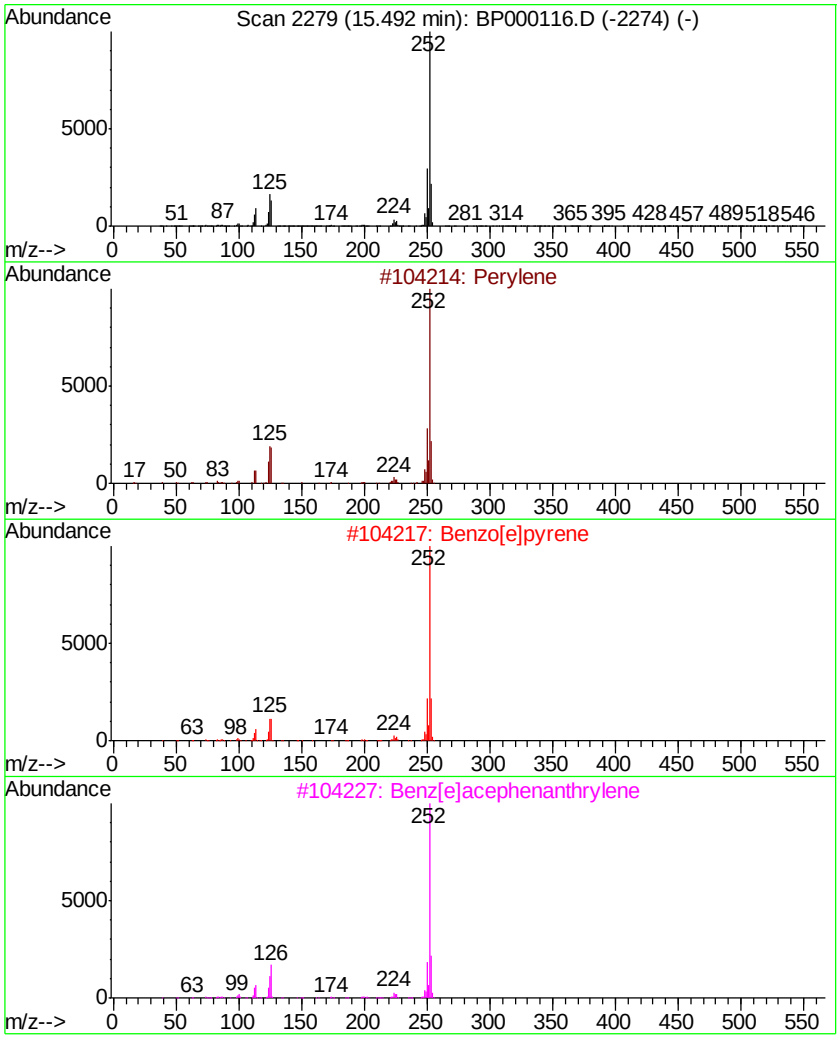
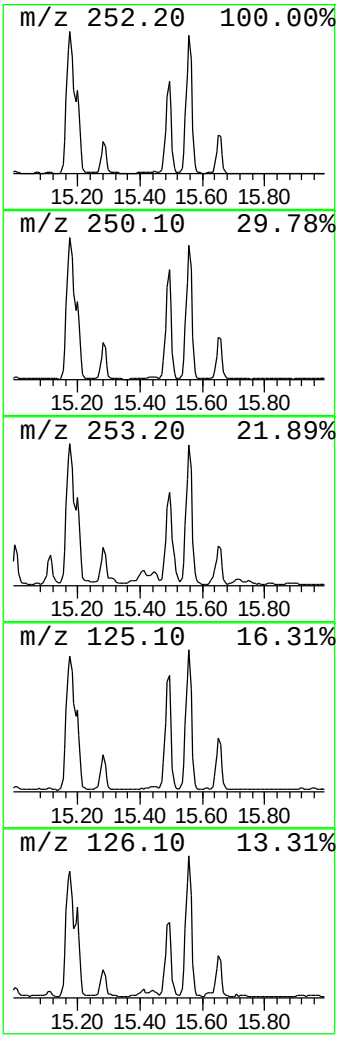
Peak Number 16 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	22.06 ng	4471260	Perylene-d12	15.62

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





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TIC Integration Parameters: LSCINT.P

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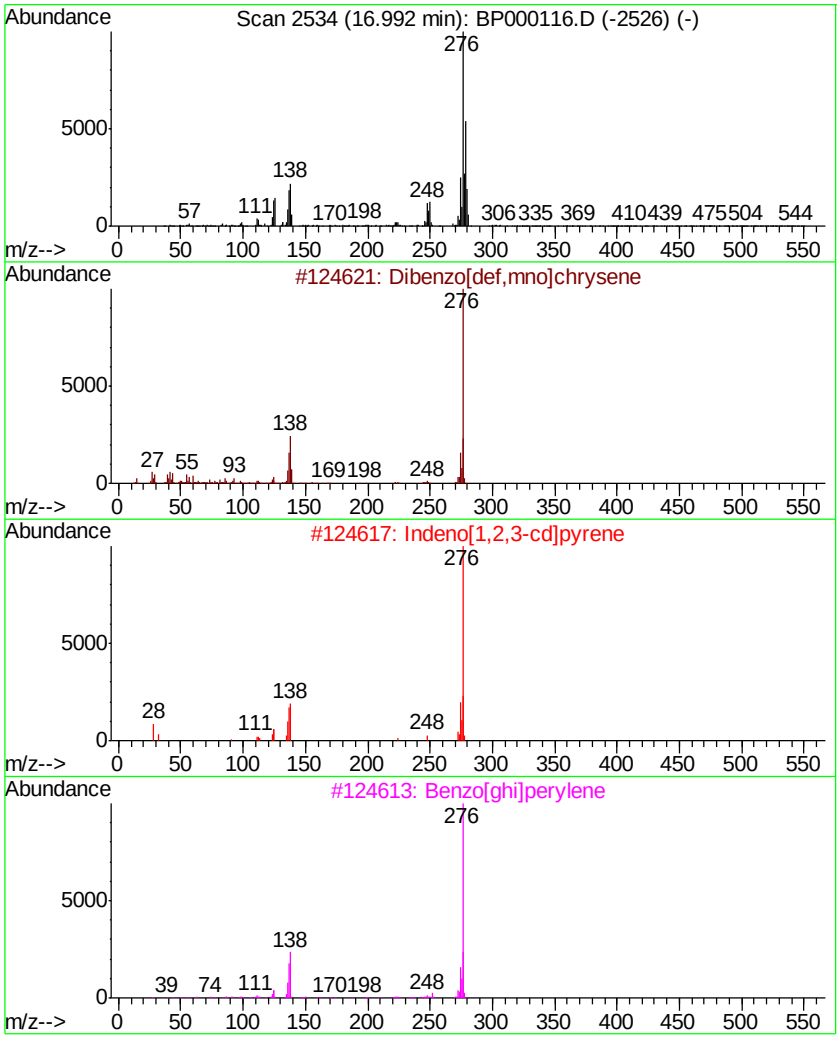
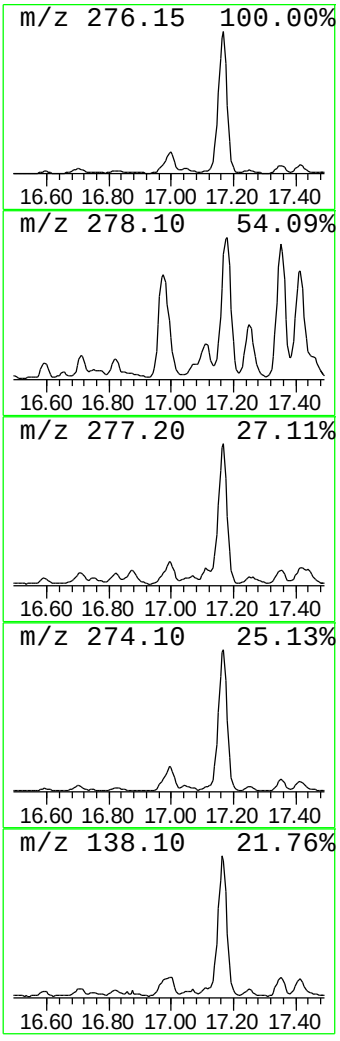
Peak Number 17 Dibenzo[def,mno]chrysene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.99	6.27 ng	1271880	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	87
2	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	70
3	Benzo[ghi]perylene	276	C22H12	000191-24-2	55
4	2-Thiophenecarbaldehyde, 5-[5-(t...	276	C13H8OS3	1000217-28-5	43
5	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	38





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Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.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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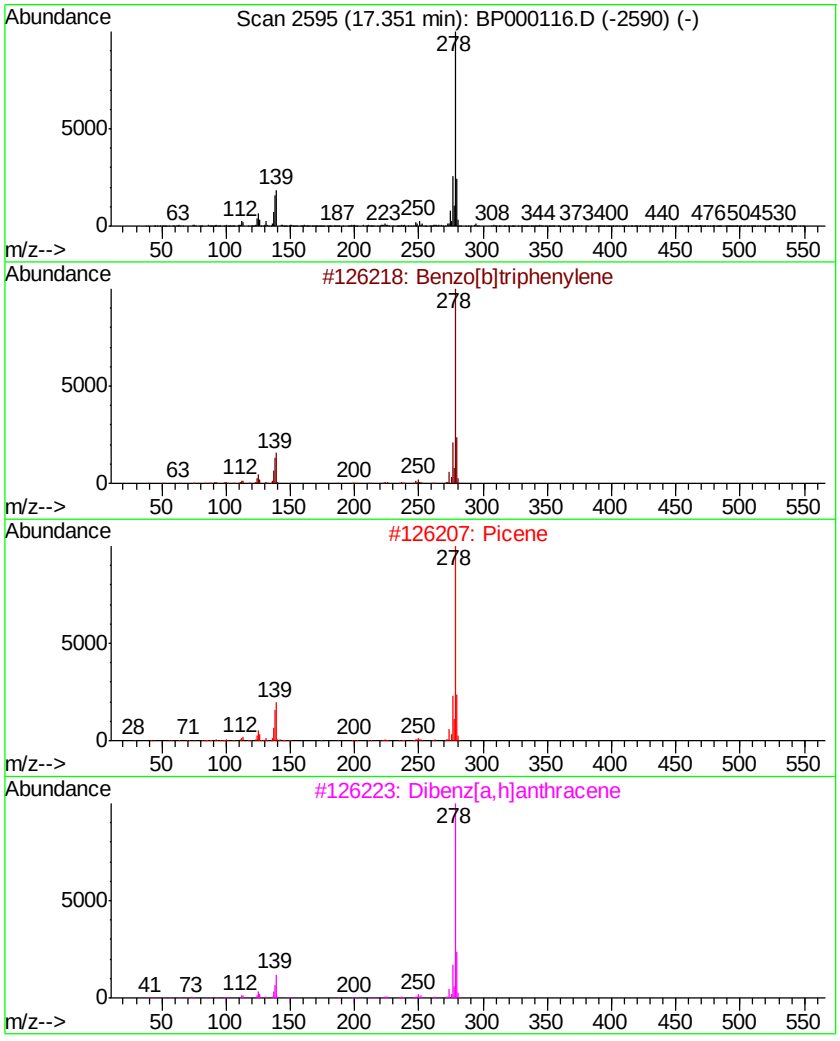
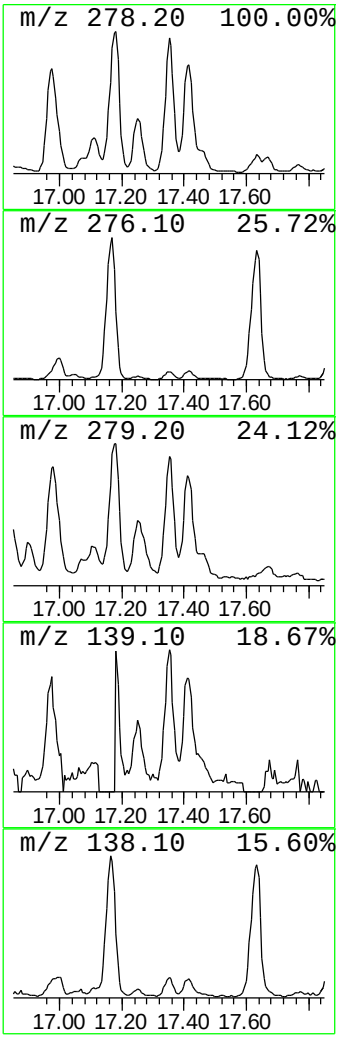
Peak Number 18 Picene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.35	3.58 ng	725996	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	99
2	Picene	278	C22H14	000213-46-7	99
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
4	Pentacene	278	C22H14	000135-48-8	96
5	Pentaphene	278	C22H14	000222-93-5	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.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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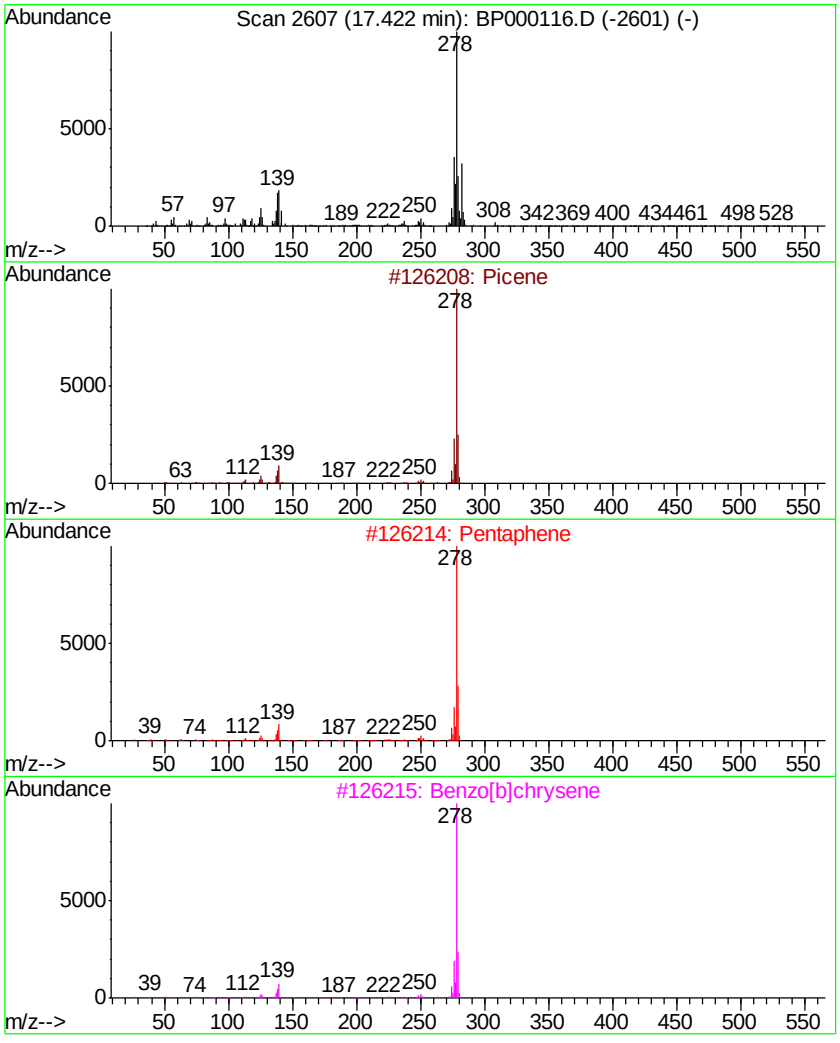
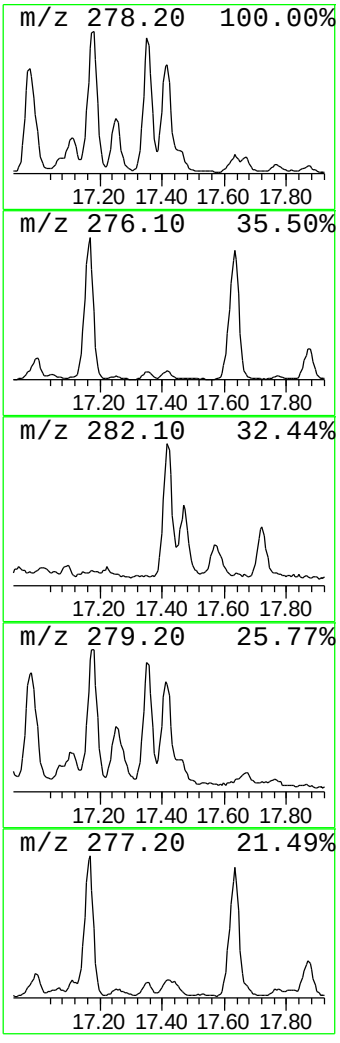
Peak Number 19 Pentaphene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.42	4.34 ng	879721	Perylene-d12	15.62

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	96
2	Pentaphene	278	C22H14	000222-93-5	95
3	Benzo[b]chrysene	278	C22H14	000214-17-5	95
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	94
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.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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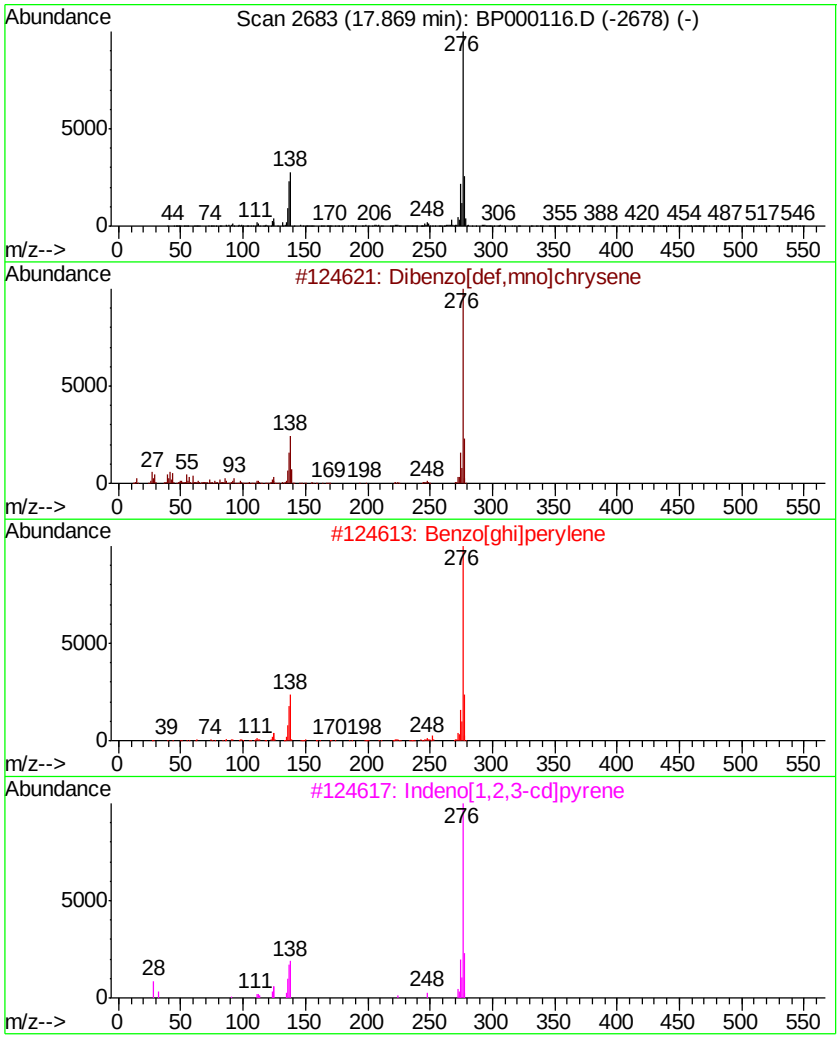
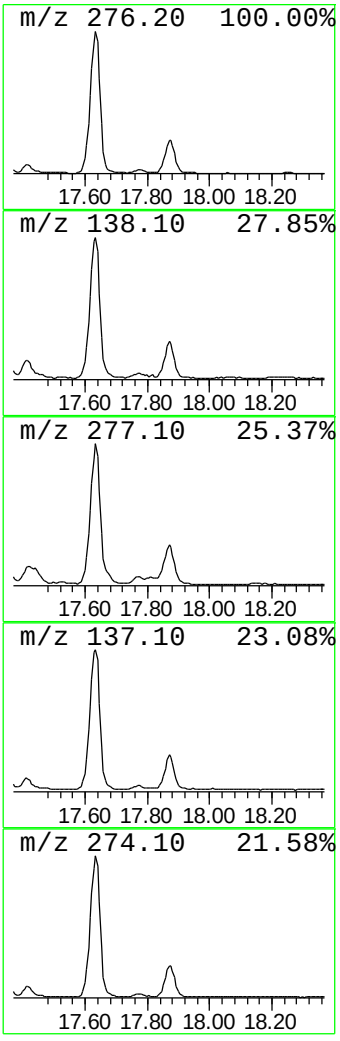
Peak Number 20 6H-Pyrido[4,3-b]carbazole, ... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.87	4.66 ng	944594	Perylene-d12	15.62

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	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	80
4	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	50
5	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP090819\
Data File : BP000116.D
Acq On : 09 Sep 2019 02:22
Operator : HP/JU
Sample : K4699-01
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : B-4(3-4)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP083019.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
Butane, 2-methoxy...	2.18	16.4	ng	2125380	1	6.89	2588160	20.0
unknown6.66	6.66	53.7	ng	6948620	1	6.89	2588160	20.0
Phenanthrene, 2-m...	11.94	7.8	ng	1689350	4	11.43	4332780	20.0
Phenanthrene, 1-m...	11.96	11.5	ng	2485490	4	11.43	4332780	20.0
Anthracene, 2-met...	12.01	3.9	ng	840955	4	11.43	4332780	20.0
4H-Cyclopenta[def...	12.05	12.9	ng	2804850	4	11.43	4332780	20.0
5H-Dibenzo[a,d]cy...	12.07	4.3	ng	937616	4	11.43	4332780	20.0
Naphthalene, 2-ph...	12.23	5.5	ng	1181880	4	11.43	4332780	20.0
9,10-Anthracenedione	12.25	3.4	ng	729850	4	11.43	4332780	20.0
Phenanthrene, 3,6...	12.49	5.6	ng	1211130	4	11.43	4332780	20.0
Acephenanthrylene...	12.53	3.6	ng	782246	4	11.43	4332780	20.0
Cyclopenta(def)ph...	12.58	4.4	ng	954609	4	11.43	4332780	20.0
11H-Benzo[a]fluor...	13.94	4.3	ng	2634140	5	14.10	12121800	20.0
Benzo[e]pyrene	15.28	7.3	ng	1470650	6	15.62	4054010	20.0
Perylene	15.49	22.1	ng	4471260	6	15.62	4054010	20.0
Dibenzo[def,mno]c...	16.99	6.3	ng	1271880	6	15.62	4054010	20.0
Picene	17.35	3.6	ng	725996	6	15.62	4054010	20.0
Pentaphene	17.42	4.3	ng	879721	6	15.62	4054010	20.0
6H-Pyrido[4,3-b]c...	17.87	4.7	ng	944594	6	15.62	4054010	20.0