LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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	5.428	563	568	571	rBV	5732326	5750745	70.67%	6.668%
2	6.434	734	739	742	rBV	5867430	6020774	73.99%	6.981%
3	6.569	757	762	765	rBV	6667167	6291187	77.31%	7.294%
4	6.793	796	800	803	rBV	1770197	1426794	17.53%	1.654%
5	6.952	822	827	830	rBV	5849783	5387520	66.21%	6.247%
6	7.352	890	895	898	rBV	4501162	3880435	47.69%	4.499%
7	8.069	1014	1017	1020	rBV	1912003	1744662	21.44%	2.023%
8	9.151	1197	1201	1204	rBV	9655086	8137461	100.00%	9.435%
9	9.493	1255	1259	1261	rBV	148262	135098	1.66%	0.157%
10	9.546	1265	1268	1276	rVB	424525	439715	5.40%	0.510%
11	9.693	1289	1293	1297	rBV	423086	360030	4.42%	0.417%
12	9.834	1313	1317	1320	rVB	1703822	1451052	17.83%	1.682%
13	10.034	1348	1351	1355	rVB	100429	96350	1.18%	0.112%
14	10.151	1366	1371	1374	rBV3	80329	104816	1.29%	0.122%
15	10.381	1407	1410	1417	rVB3	113593	147871	1.82%	0.171%
16	10.628	1446	1452	1455	rBV	4821998	4184185	51.42%	4.851%
17	10.751	1469	1473	1479	rVB2	121253	131390	1.61%	0.152%
18	10.934	1500	1504	1507	rBV3	66319	92189	1.13%	0.107%
19	11.128	1534	1537	1542	rVB2	108747	110295	1.36%	0.128%
20	11.328	1567	1571	1573	rBV	1977711	1783655	21.92%	2.068%
21	11.351	1573	1575	1579	rVV	1509971	1181963	14.52%	1.370%
22	11.398	1580	1583	1586	rVB	381801	332409	4.08%	0.385%
23	11.434	1586	1589	1593	rBV3	89147	106964	1.31%	0.124%
24	11.557	1604	1610	1612	rBV	99899	128493	1.58%	0.149%
25	11.657	1624	1627	1630	rVB2	138925	134825	1.66%	0.156%
26	11.834	1653	1657	1659	rBV	566002	462734	5.69%	0.537%
27	11.863	1659	1662	1666	rVV	876166	773669	9.51%	0.897%
28	11.910	1666	1670	1672	rVV2	202369	190449	2.34%	0.221%
29	11.945	1672	1676	1678	rVV	726743	776411	9.54%	0.900%
30	11.969	1678	1680	1685	rVB	497525	397697	4.89%	0.461%
31	12.128	1702	1707	1709	rBV2	282598	287442	3.53%	0.333%
32	12.151	1709	1711	1716	rVB2	242522	218390	2.68%	0.253%
33	12.281	1731	1733	1736	rVB2	154536	123643	1.52%	0.143%
34	12.316	1736	1739	1741	rBV	195465	156190	1.92%	0.181%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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	12.340	1741	1743	1745	rVB	154580	120676	1.48%	0.140%
36	12.387	1748	1751	1754	rBV	559224	574728	7.06%	0.666%
37	12.422	1754	1757	1760	rVV2	262935	329641	4.05%	0.382%
38	12.445	1760	1761	1763	rVB	199412	107505	1.32%	0.125%
39	12.475	1763	1766	1771	rBV3	299426	368832	4.53%	0.428%
40	12.551	1775	1779	1782	rVB	2433893	1960519	24.09%	2.273%
41	12.598	1784	1787	1788	rBV	118177	102321	1.26%	0.119%
42	12.645	1793	1795	1798	rVB	177593	143618	1.76%	0.167%
43	12.681	1798	1801	1803	rBV2	136528	121798	1.50%	0.141%
44	12.781	1813	1818	1821	rBV	2439332	2365651	29.07%	2.743%
45	12.804	1821	1822	1825	rVB2	159713	109054	1.34%	0.126%
46	12.845	1825	1829	1832	rVB2	218135	270244	3.32%	0.313%
47	12.898	1835	1838	1840	rBV	146112	159461	1.96%	0.185%
48	12.934	1840	1844	1847	rVV	7976887	7384546	90.75%	8.562%
49	13.004	1852	1856	1859	rBV2	362317	463475	5.70%	0.537%
50	13.063	1863	1866	1868	rBV2	109575	114722	1.41%	0.133%
51	13.092	1868	1871	1872	rVV2	278540	296074	3.64%	0.343%
52	13.116	1872	1875	1878	rVB	462399	486495	5.98%	0.564%
53	13.181	1878	1886	1889	rBV3	306730	478123	5.88%	0.554%
54	13.222	1889	1893	1896	rVV2	480749	491926	6.05%	0.570%
55	13.281	1900	1903	1906	rVV2	128465	153510	1.89%	0.178%
56	13.310	1906	1908	1911	rVV	422105	370668	4.56%	0.430%
57	13.345	1911	1914	1917	rVB	378926	360344	4.43%	0.418%
58	13.522	1941	1944	1946	rBV3	101595	109699	1.35%	0.127%
59	13.622	1956	1961	1967	rBV3	342343	553746	6.80%	0.642%
60	13.692	1971	1973	1975	rVB	143161	111661	1.37%	0.129%
61	13.734	1976	1980	1984	rBV3	276220	408191	5.02%	0.473%
62	13.769	1984	1986	1988	rVV	205283	149703	1.84%	0.174%
63	13.792	1988	1990	1991	rVV	140330	109510	1.35%	0.127%
64	13.839	1994	1998	2007	rVB3	676274	914601	11.24%	1.060%
65	13.992	2019	2024	2027	rBV2	2256808	3132919	38.50%	3.632%
66	14.016	2027	2028	2034	rVB	1185443	995455	12.23%	1.154%
67	14.081	2037	2039	2041	rBV	133344	143478	1.76%	0.166%
68	14.251	2066	2068	2071	rVB2	145055	110445	1.36%	0.128%
69	14.345	2082	2084	2086	rBV	130981	133860	1.64%	0.155%
70	14.387	2086	2091	2094	rVV	471895	568366	6.98%	0.659%
71	14.416	2094	2096	2100	rVB	312338	281193	3.46%	0.326%

LSC Area Percent Report

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Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

72	14.457	2100	2103	2104	rBV2	145304	143104	1.76%	0.166%
73	14.481	2104	2107	2110	rVV3	287863	343602	4.22%	0.398%
74	14.510	2110	2112	2114	rVB	232961	174456	2.14%	0.202%
75	14.781	2155	2158	2162	rBV4	94966	180064	2.21%	0.209%
76	14.863	2169	2172	2175	rBV3	190340	234861	2.89%	0.272%
77	15.045	2198	2203	2206	rBV2	964423	1531569	18.82%	1.776%
78	15.351	2251	2255	2261	rVB	592220	779805	9.58%	0.904%
79	15.410	2261	2265	2271	rVB	864572	1008715	12.40%	1.170%
80	15.475	2272	2276	2280	rVV	1346210	1718431	21.12%	1.992%
81	15.504	2280	2281	2289	rVB3	222364	344363	4.23%	0.399%
82	15.969	2356	2360	2364	rBV	217039	325153	4.00%	0.377%
83	16.957	2523	2528	2537	rVB2	382750	729486	8.96%	0.846%
84	17.404	2599	2604	2616	rVB	334893	730200	8.97%	0.847%

Sum of corrected areas: 86248070

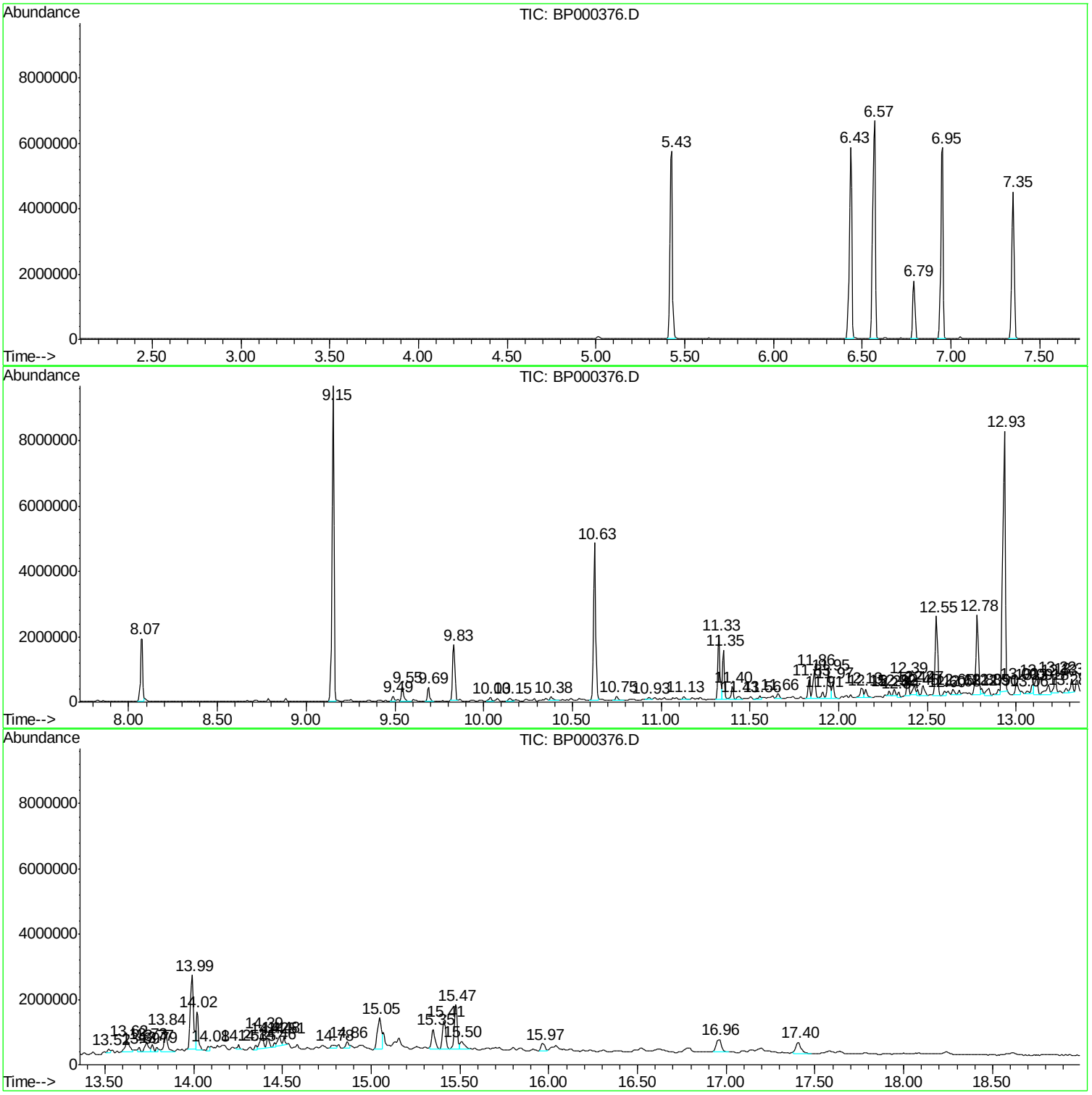
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

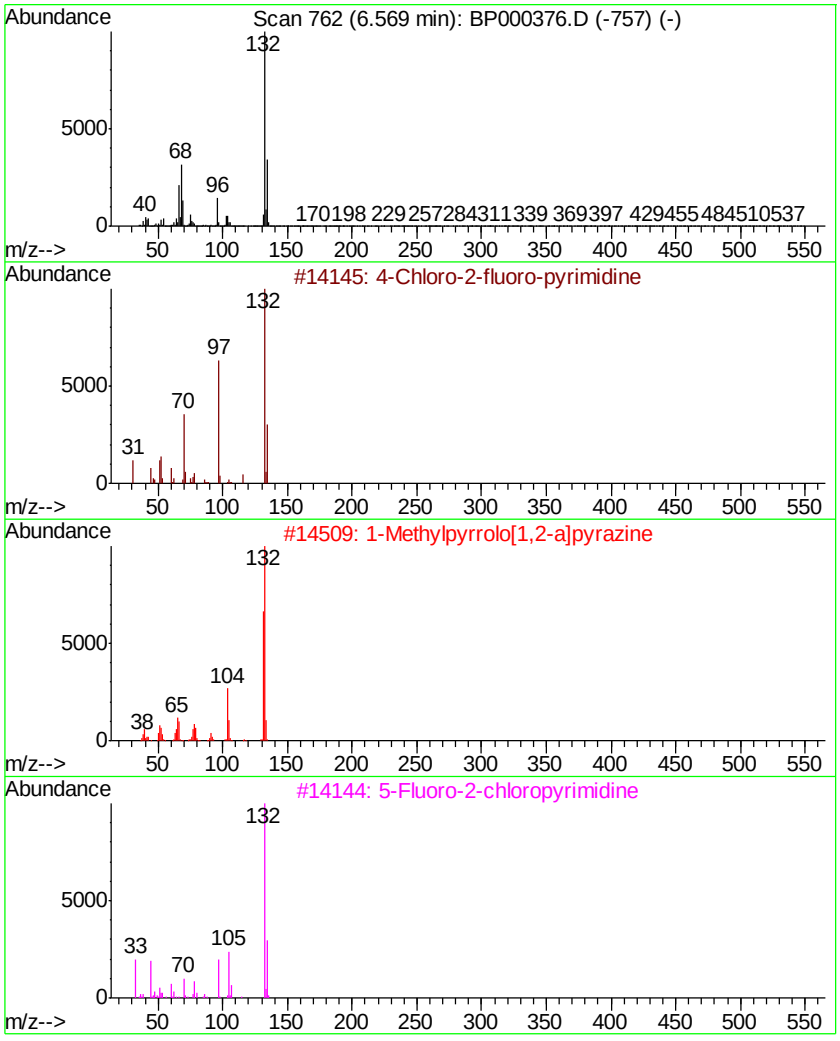
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

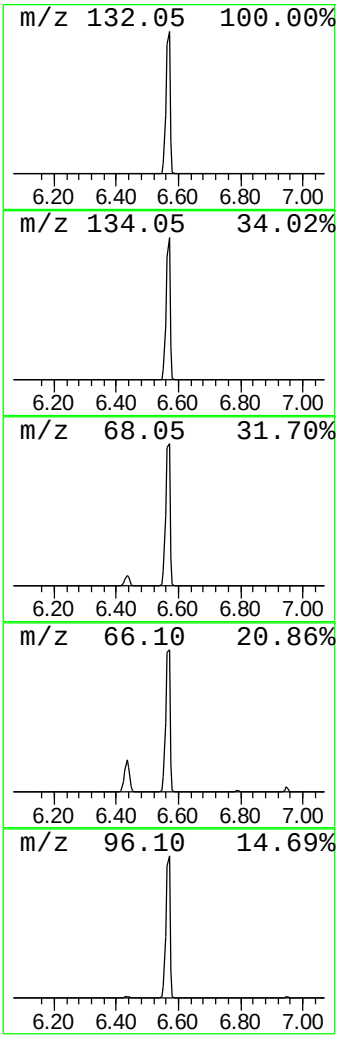
****

Peak Number 1 unknown6.57 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	88.19 ng	6291190	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
2	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	9
5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

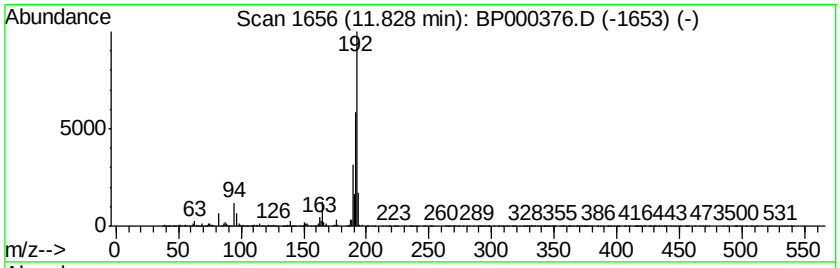
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

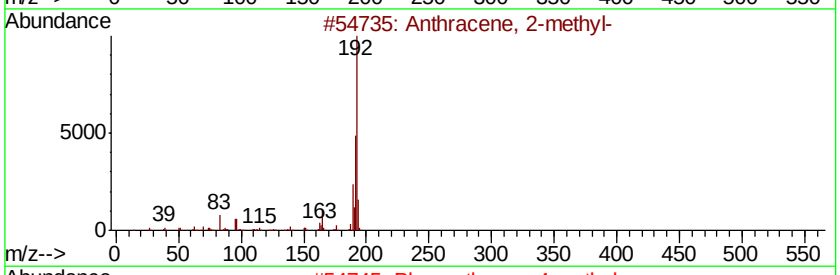
****

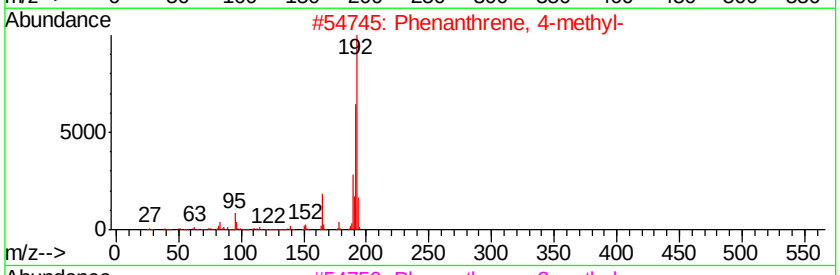
Peak Number 3 Anthracene, 2-methyl- Concentration Rank 8

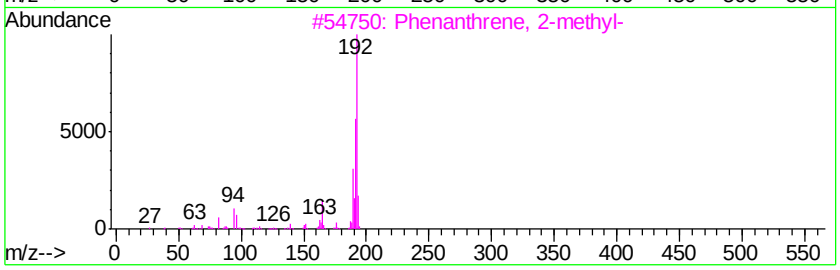
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	5.19 ng	462734	Phenanthrene-d10	11.33

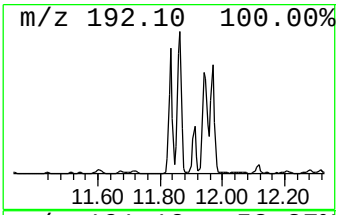
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91

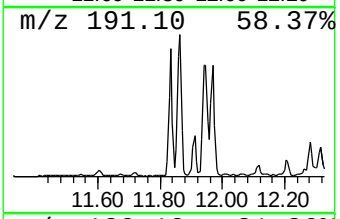


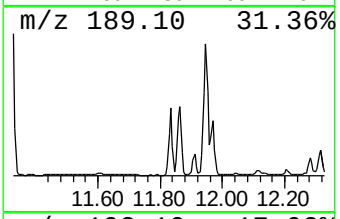


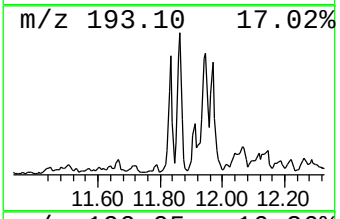


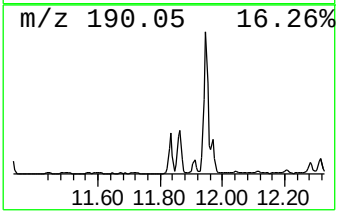












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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

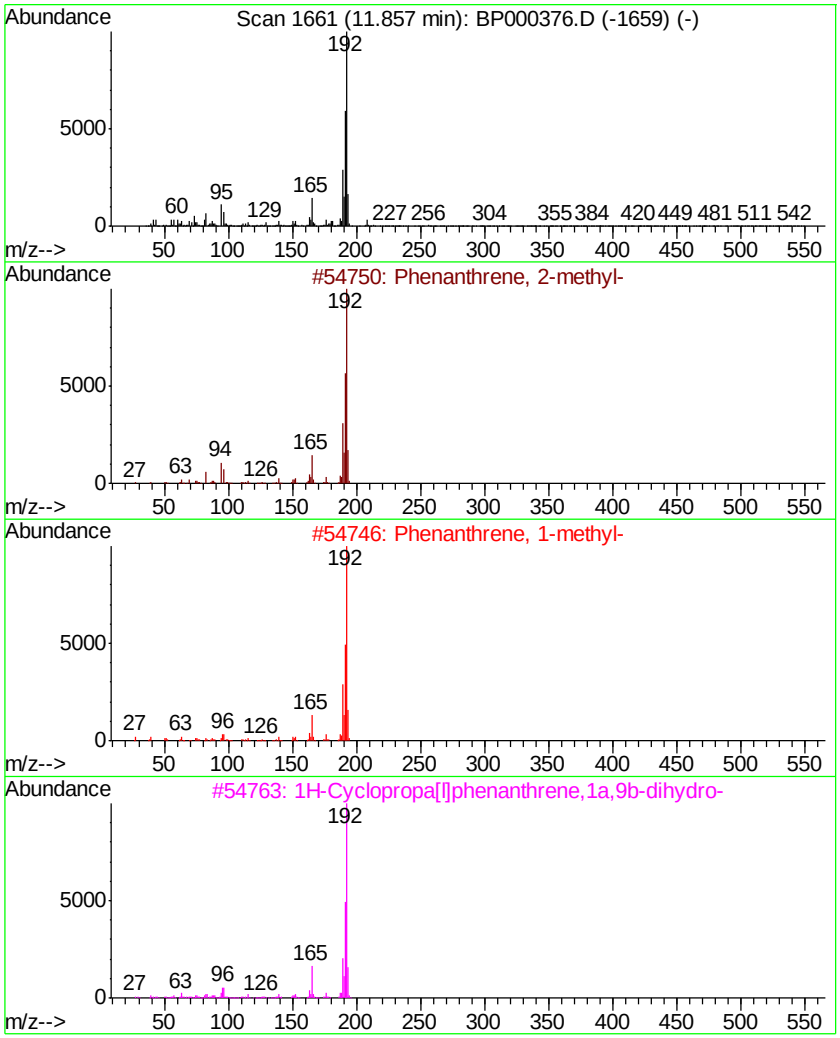
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

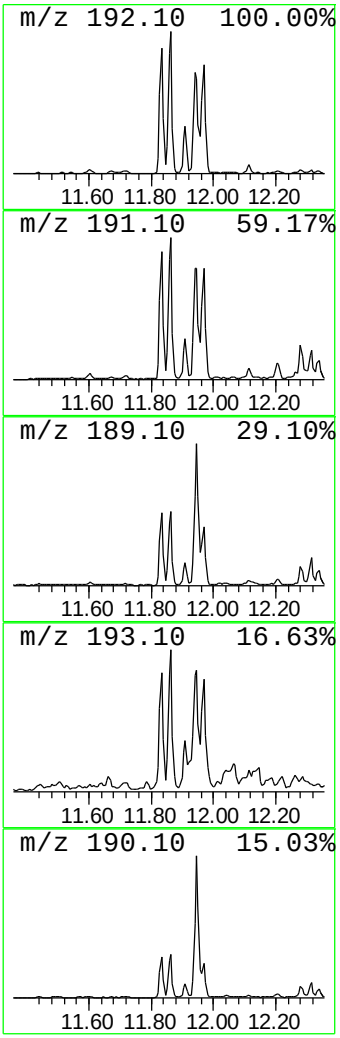
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	8.68 ng	773669	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	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





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Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

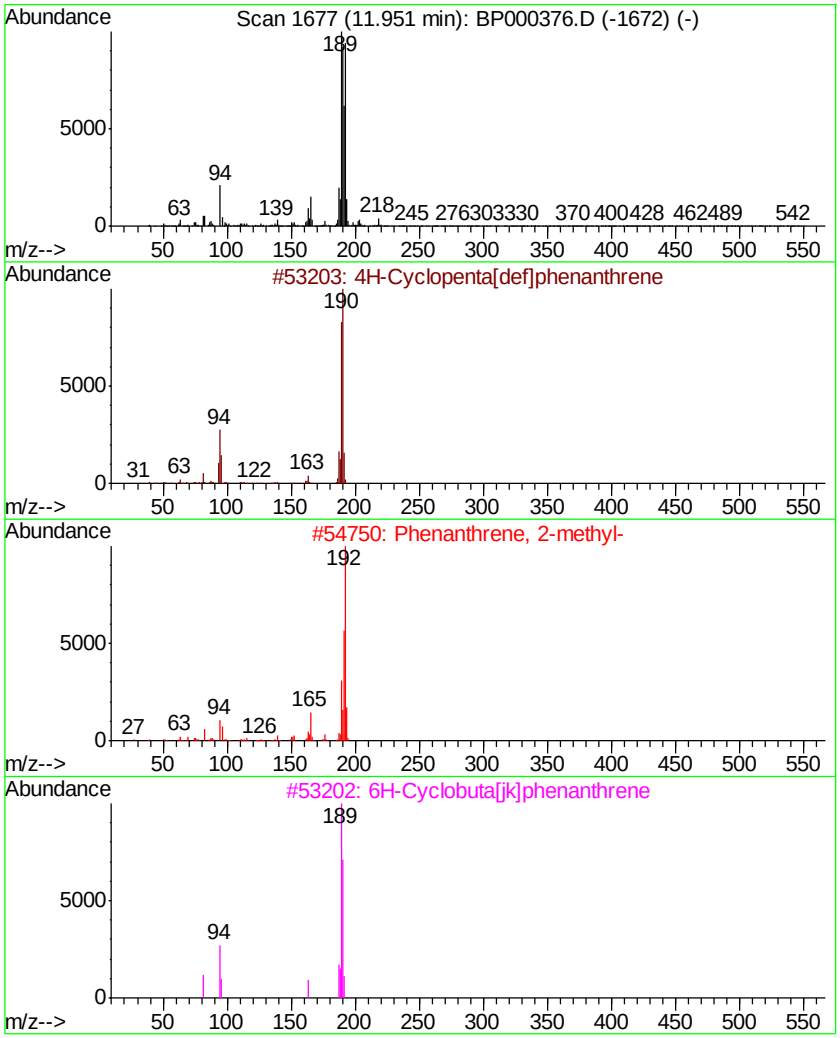
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

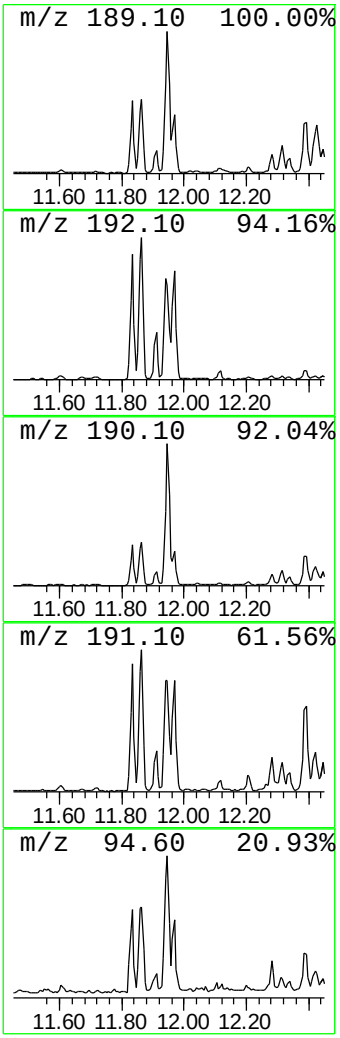
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	8.71 ng	776411	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	50
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	8,9-Dihydrocyclopenta[def]phenan...	192	C15H12	027410-55-5	47
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	46





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Data File : BP000376.D
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Sample : K4997-05
Misc :
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Instrument : BNA_P
ClientSampleId : WC-10-091919

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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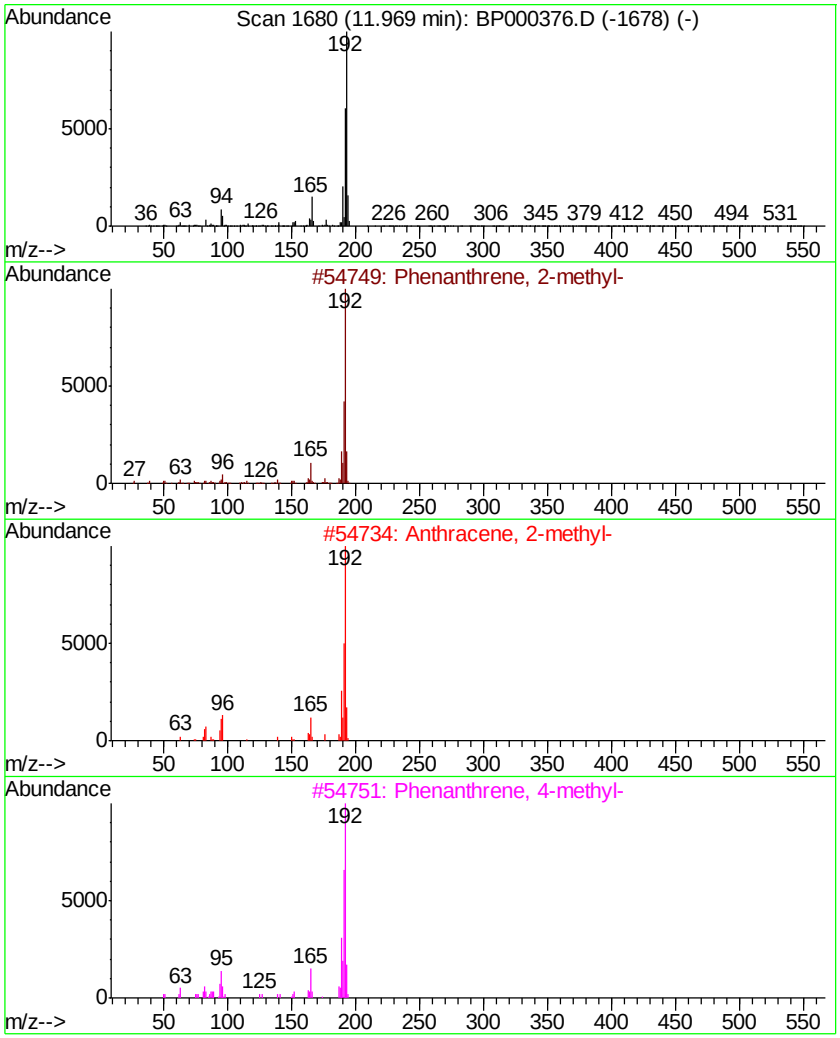
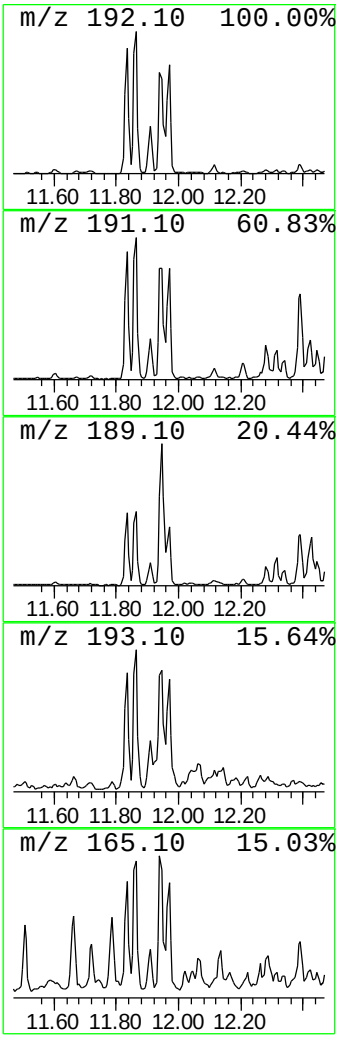
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	4.46 ng	397697	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91





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Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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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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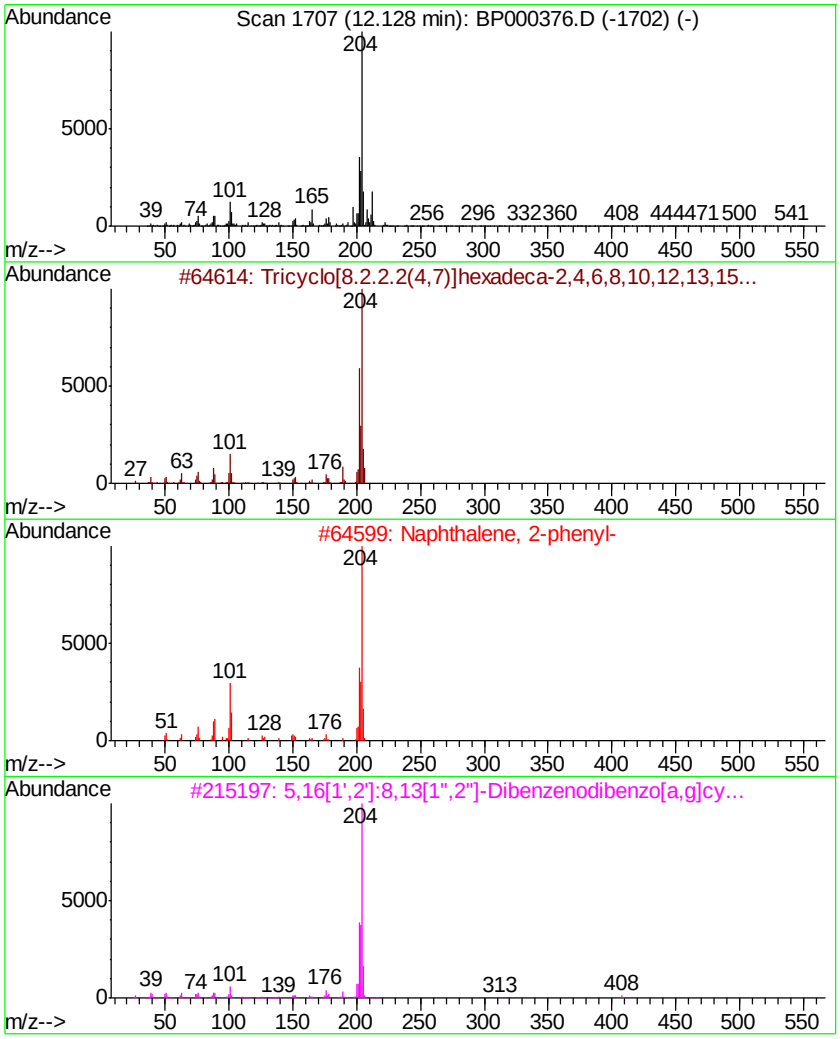
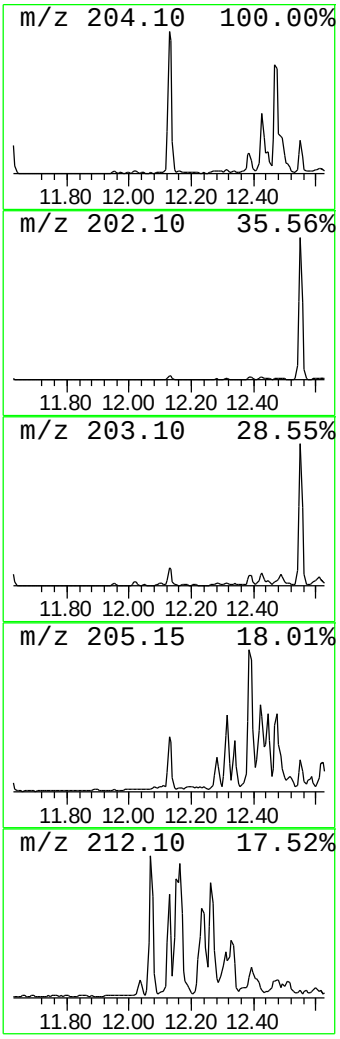
Peak Number 7 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	3.22 ng	287442	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	59
4	6-Cyanophenanthridine	204	C14H8N2	002176-28-5	55
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50





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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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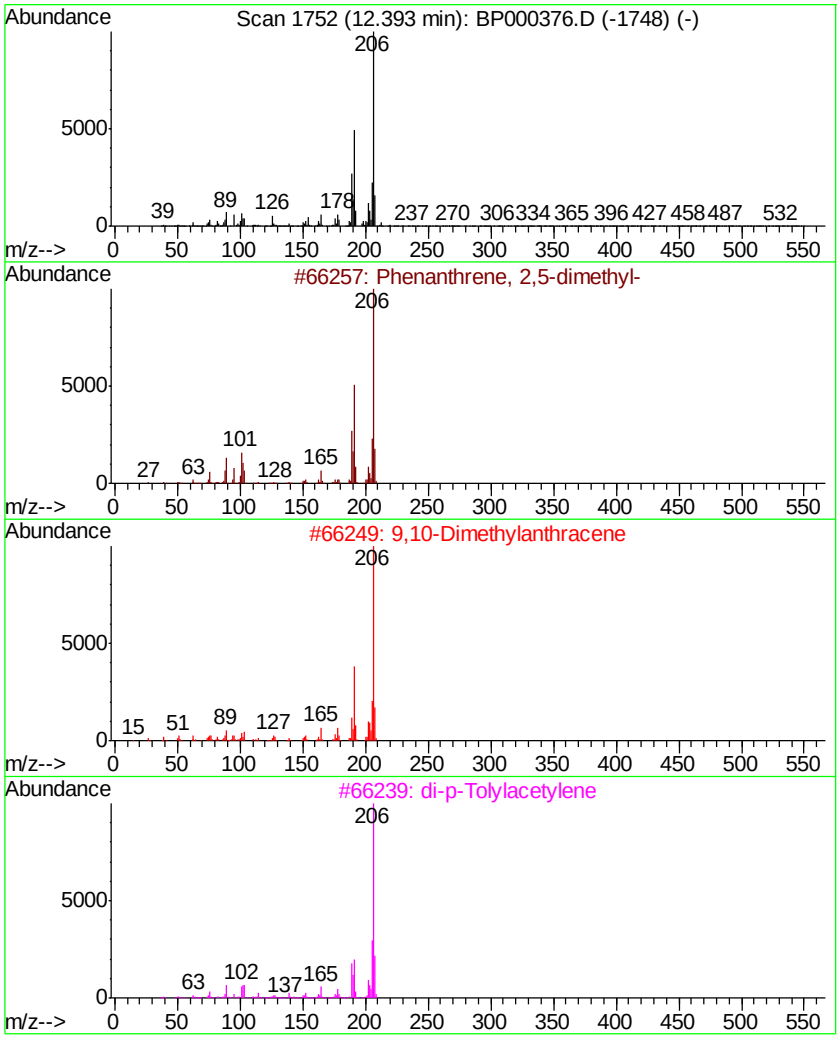
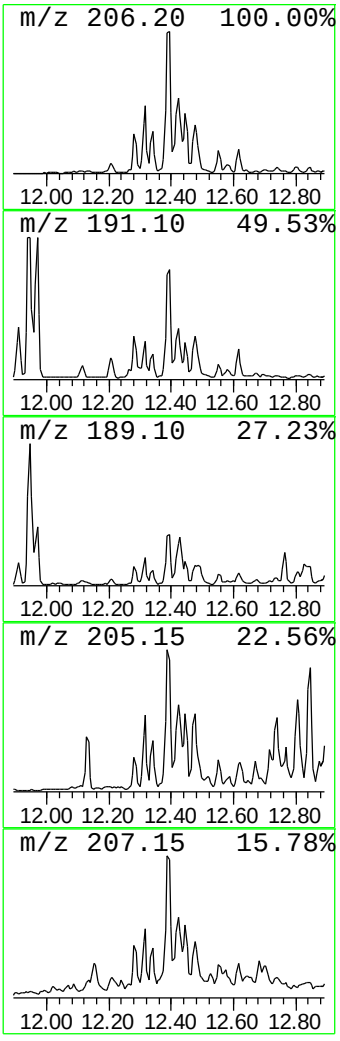
Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	6.44 ng	574728	Phenanthrene-d10	11.33

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	95
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90





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ClientSampleId : WC-10-091919

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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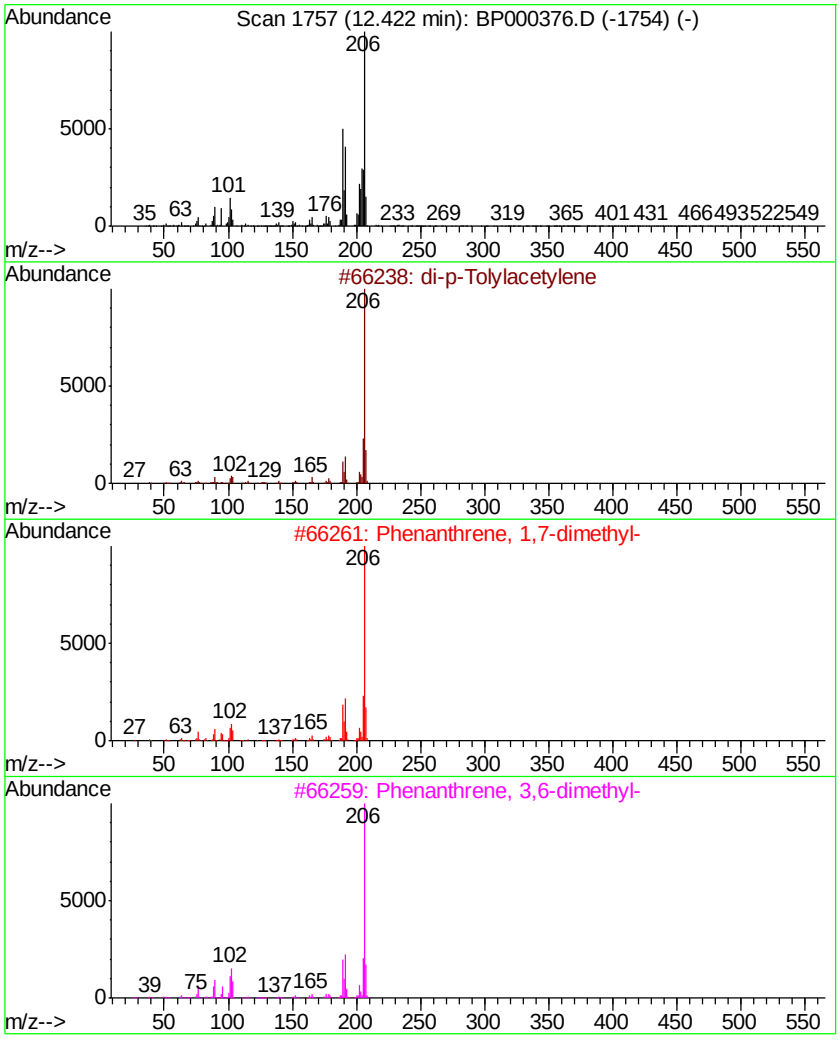
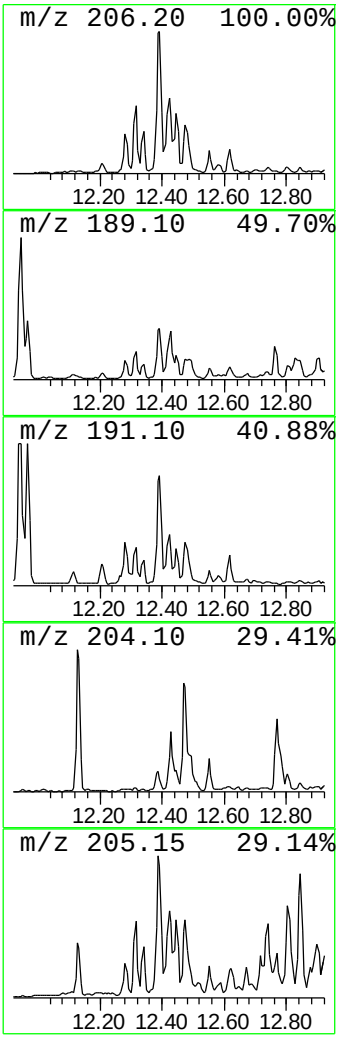
Peak Number 9 di-p-Tolylacetylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	3.70 ng	329641	Phenanthrene-d10	11.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	81
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	76
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	68
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	62
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	60





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Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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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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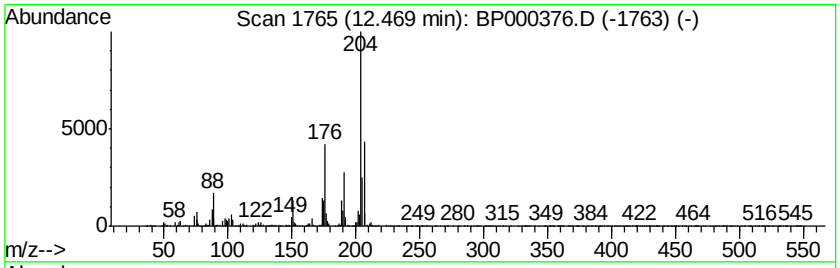
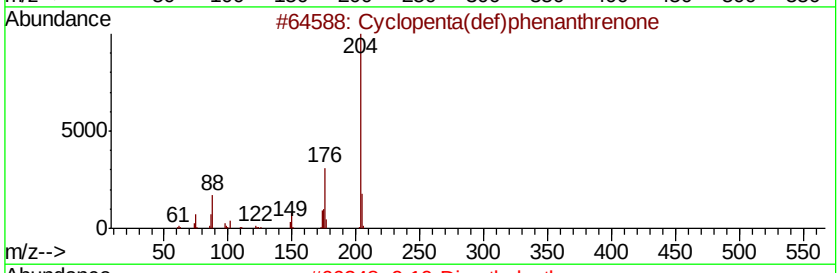
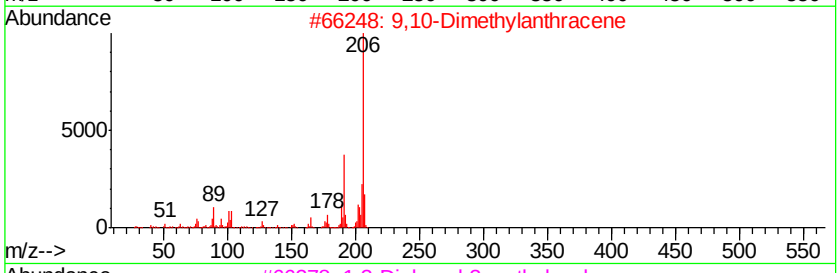
Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 10

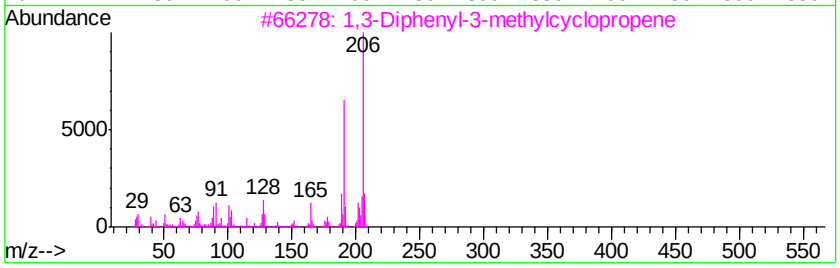
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	4.14 ng	368832	Phenanthrene-d10	11.33

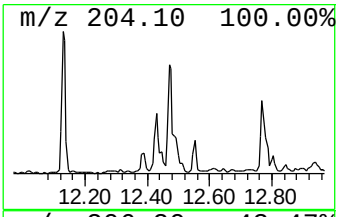
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	86
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	50
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	50
4	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	50
5	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	50

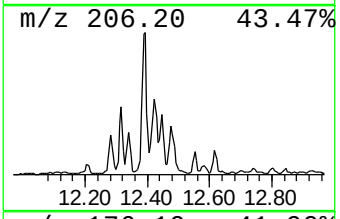


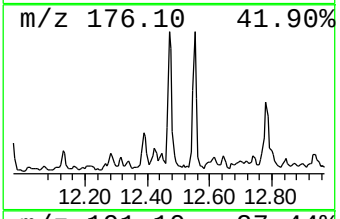


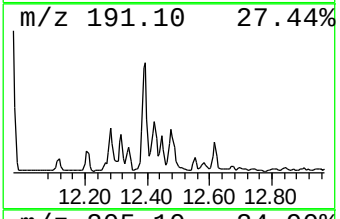


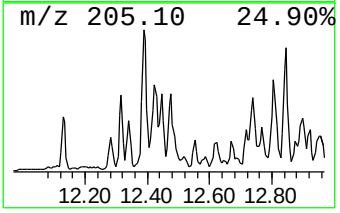












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Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

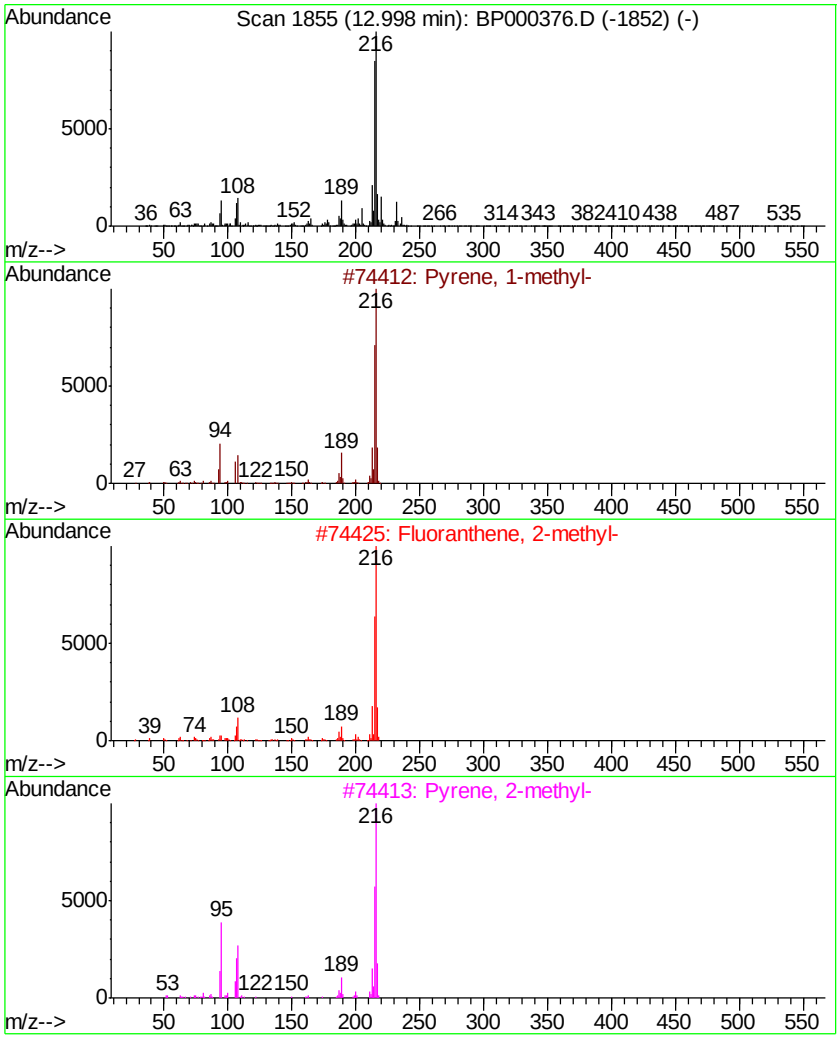
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

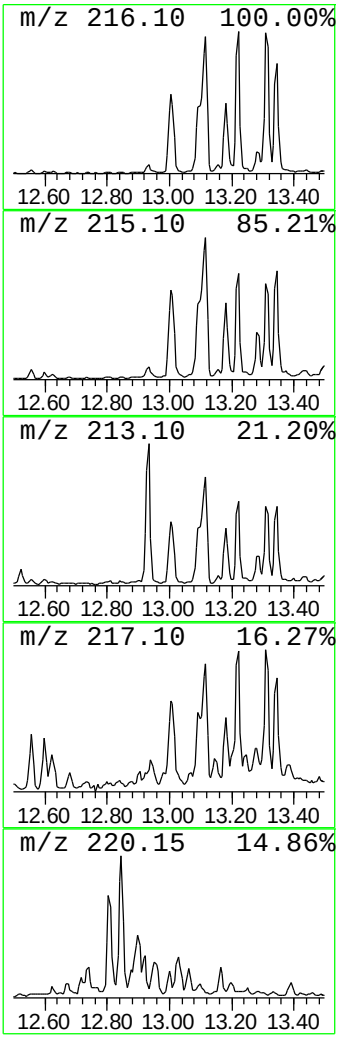
****

Peak Number 11 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.96 ng	463475	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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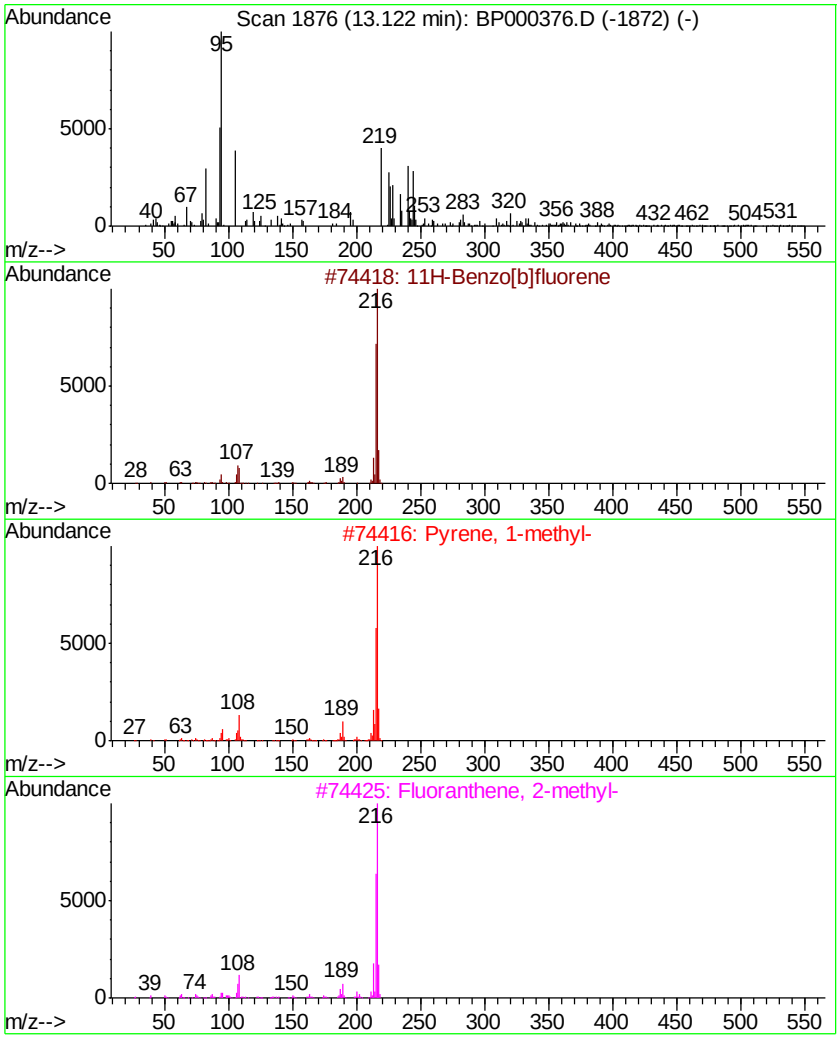
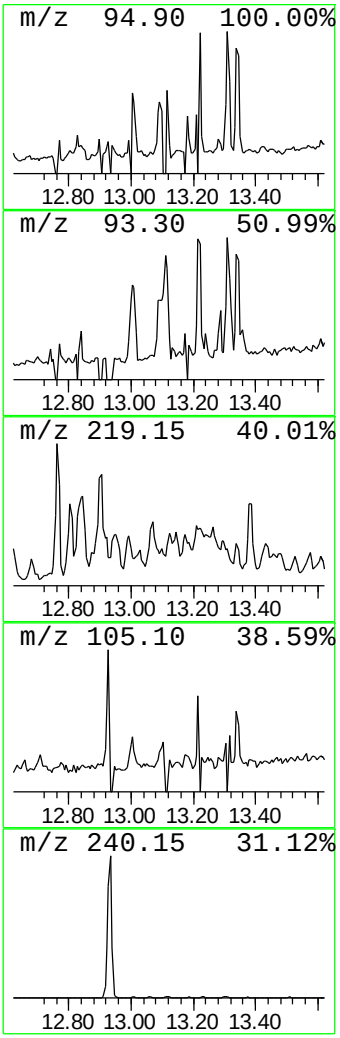
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	3.11 ng	486495	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	trans-p-(Trifluoromethyl)cinnami...	216	C10H7F3O2	016642-92-5	64





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Misc :
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Instrument : BNA_P
ClientSampleId : WC-10-091919

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TIC Integration Parameters: LSCINT.P

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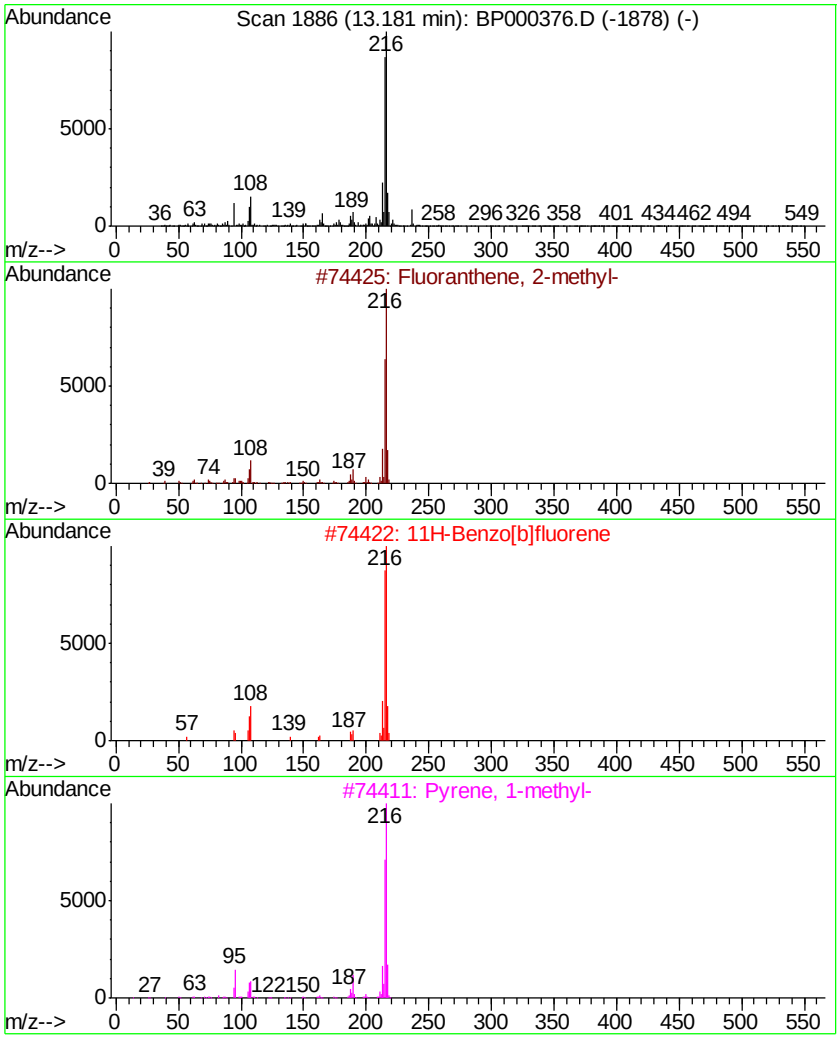
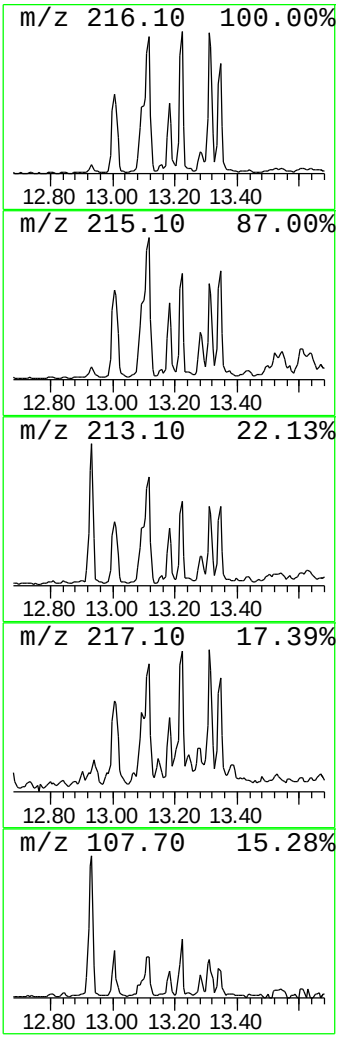
Peak Number 13 Fluoranthene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	3.05 ng	478123	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	92
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





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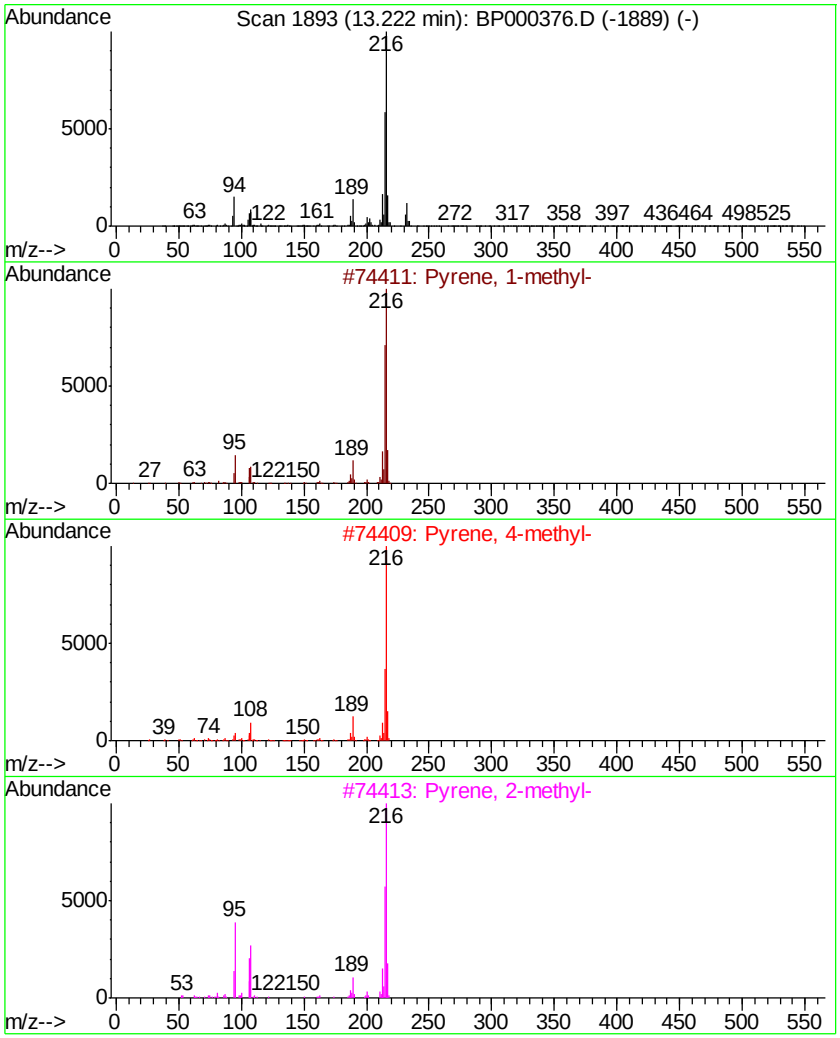
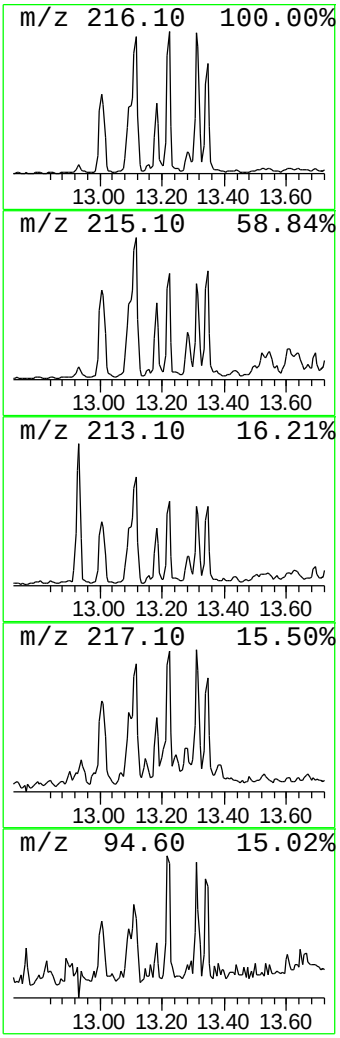
Peak Number 14 Pyrene, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	3.14 ng	491926	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	96
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





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TIC Integration Parameters: LSCINT.P

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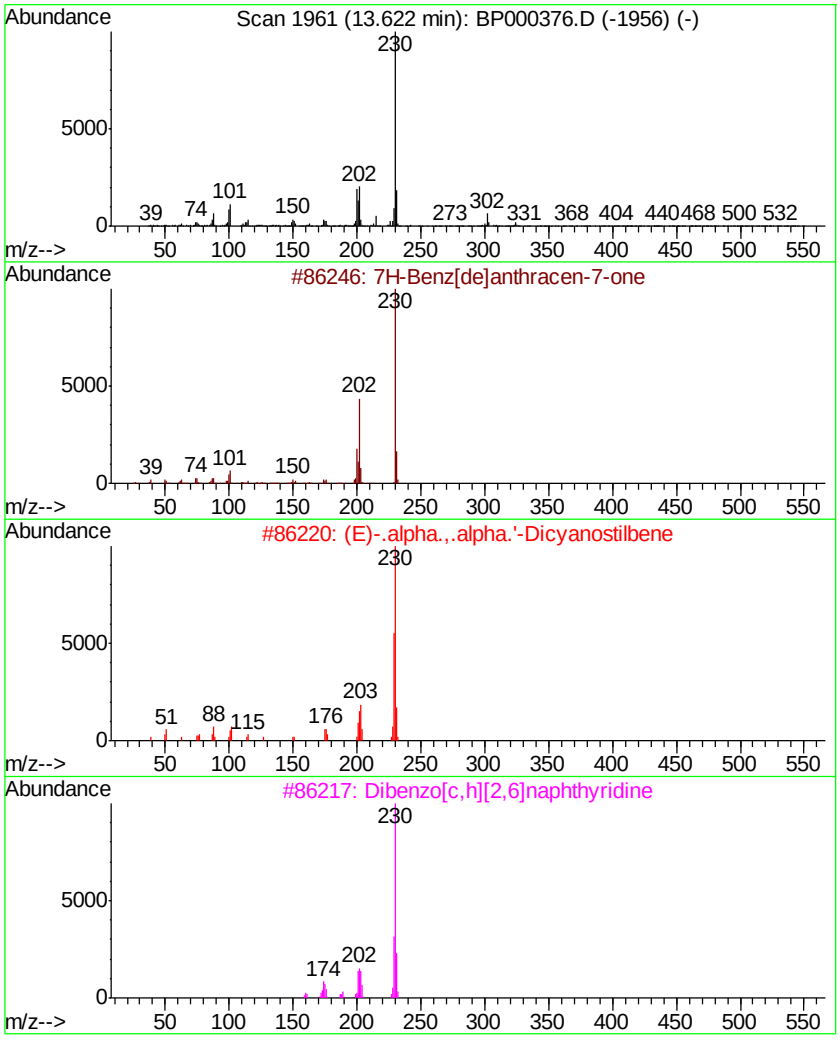
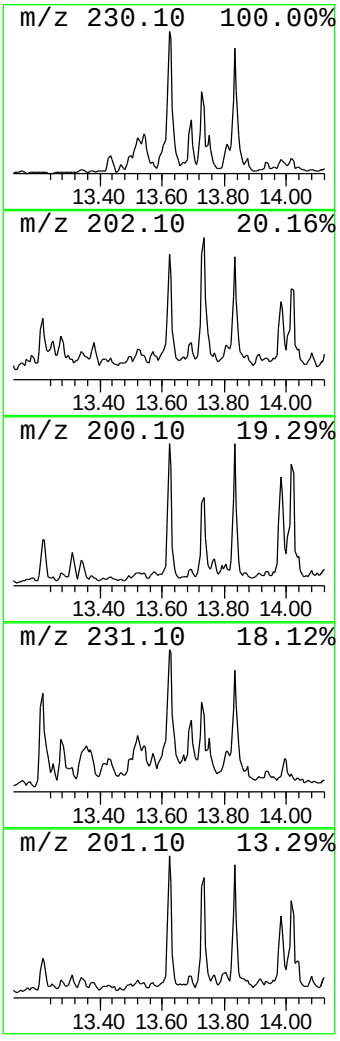
Peak Number 15 7H-Benz[de]anthracen-7-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.62	3.54 ng	553746	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	89
2	(E)-.alpha.,.alpha.'-Dicyanostil...	230	C16H10N2	002450-55-7	64
3	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	53
4	9-Chloro-1-phenazinol	230	C12H7ClN2O	091268-03-0	53
5	o-Terphenyl	230	C18H14	000084-15-1	52





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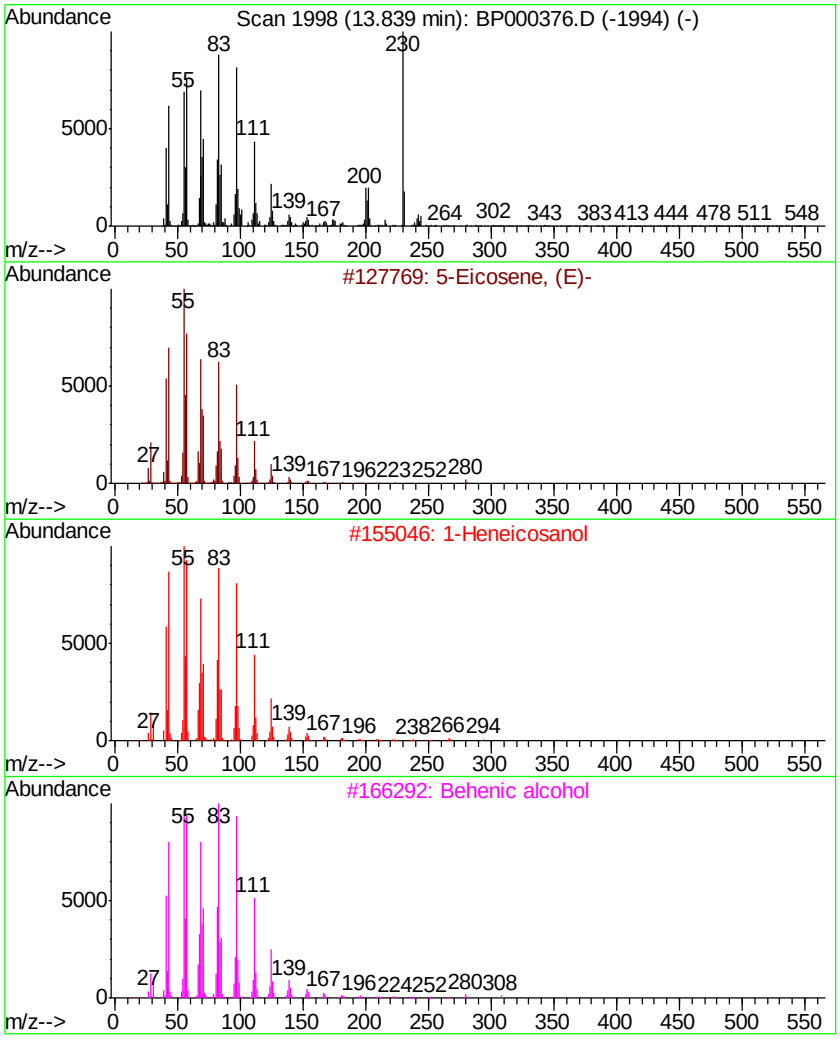
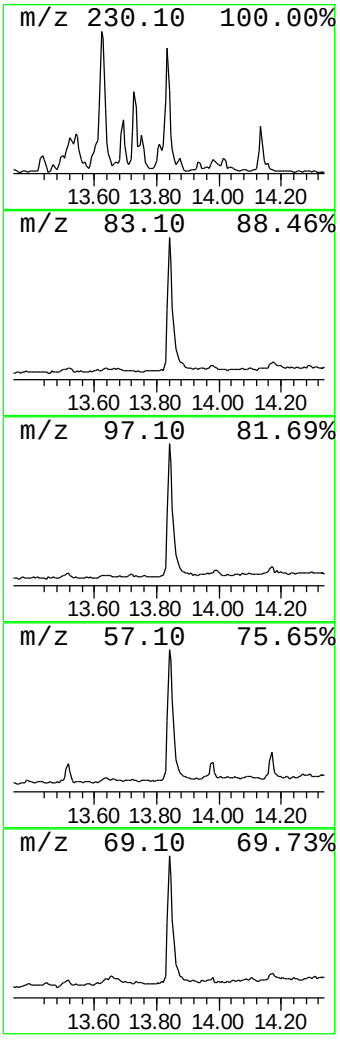
Peak Number 16 5-Eicosene, (E)- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.84	5.84 ng	914601	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	98
2	1-Heneicosanol	312	C21H44O	015594-90-8	91
3	Behenic alcohol	326	C22H46O	000661-19-8	86
4	n-Nonadecanol-1	284	C19H40O	001454-84-8	83
5	1-Docosene	308	C22H44	001599-67-3	70





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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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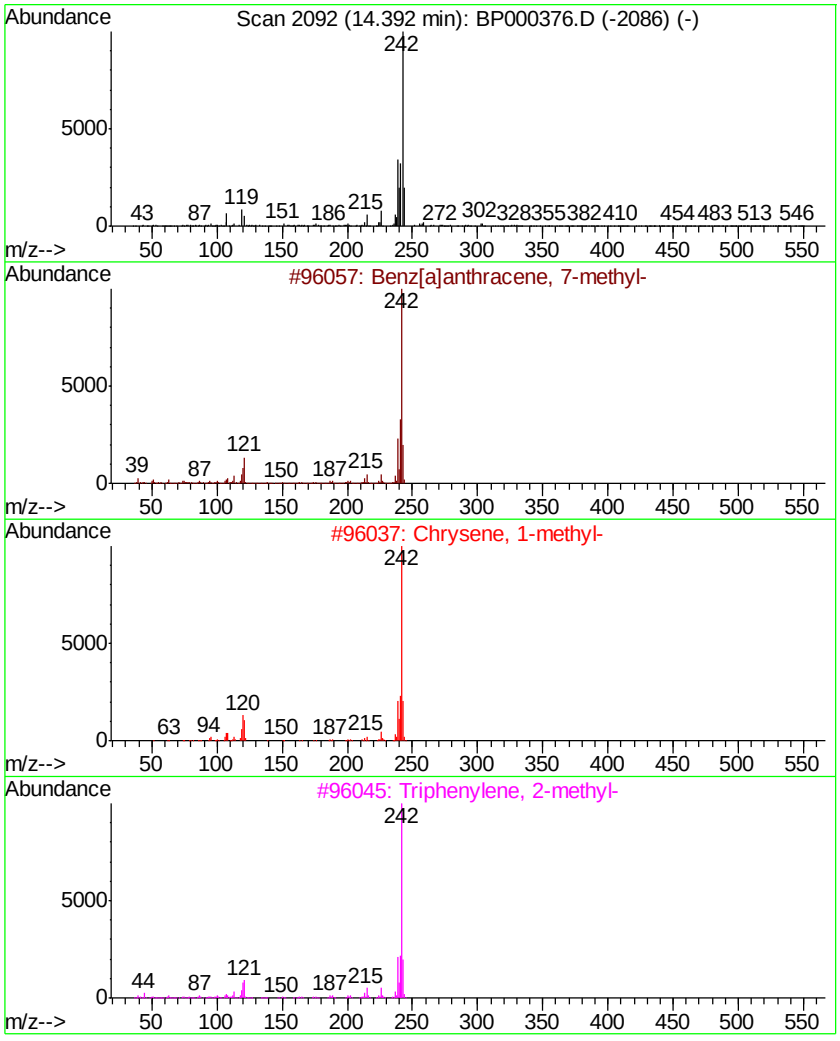
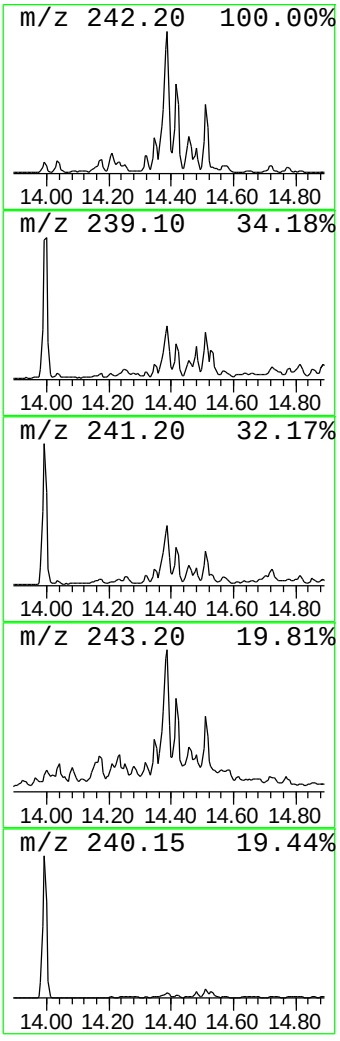
Peak Number 17 Benz[a]anthracene, 7-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.39	3.63 ng	568366	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	91
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	91
4	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	89
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	81





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Data File : BP000376.D
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Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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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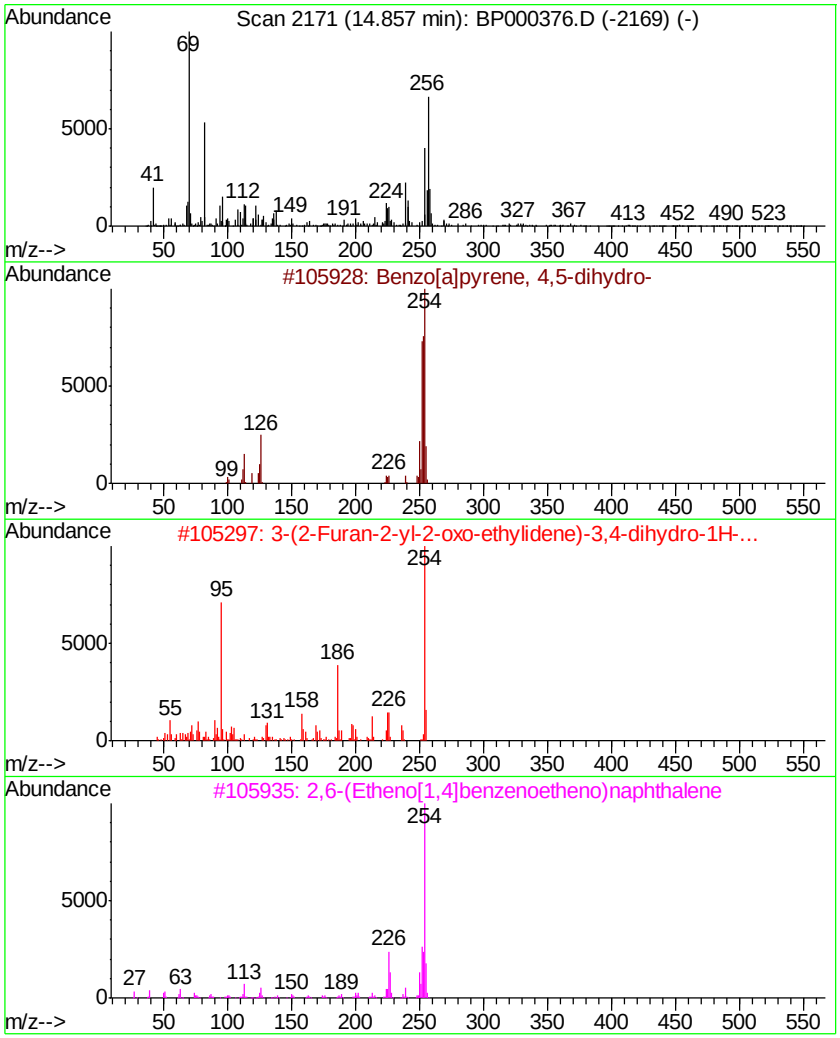
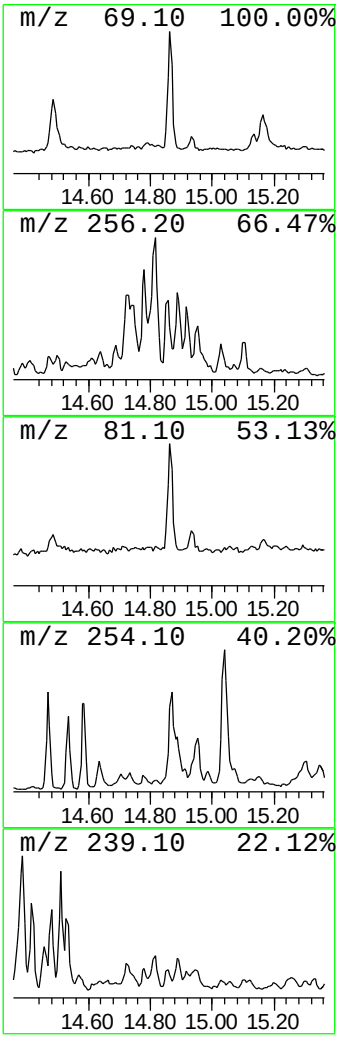
Peak Number 18 unknown14.86 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	2.73 ng	234861	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	32
2	3-(2-Furan-2-yl-2-oxo-ethylidene...	254	C14H10N2O3	1000297-32-1	22
3	2,6-(Etheno[1,4]benzenoetheno)na...	254	C20H14	117054-70-3	22
4	3-Phenylthio-2H-chromen-2-one	254	C15H10O2S	072167-95-4	22
5	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	18





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

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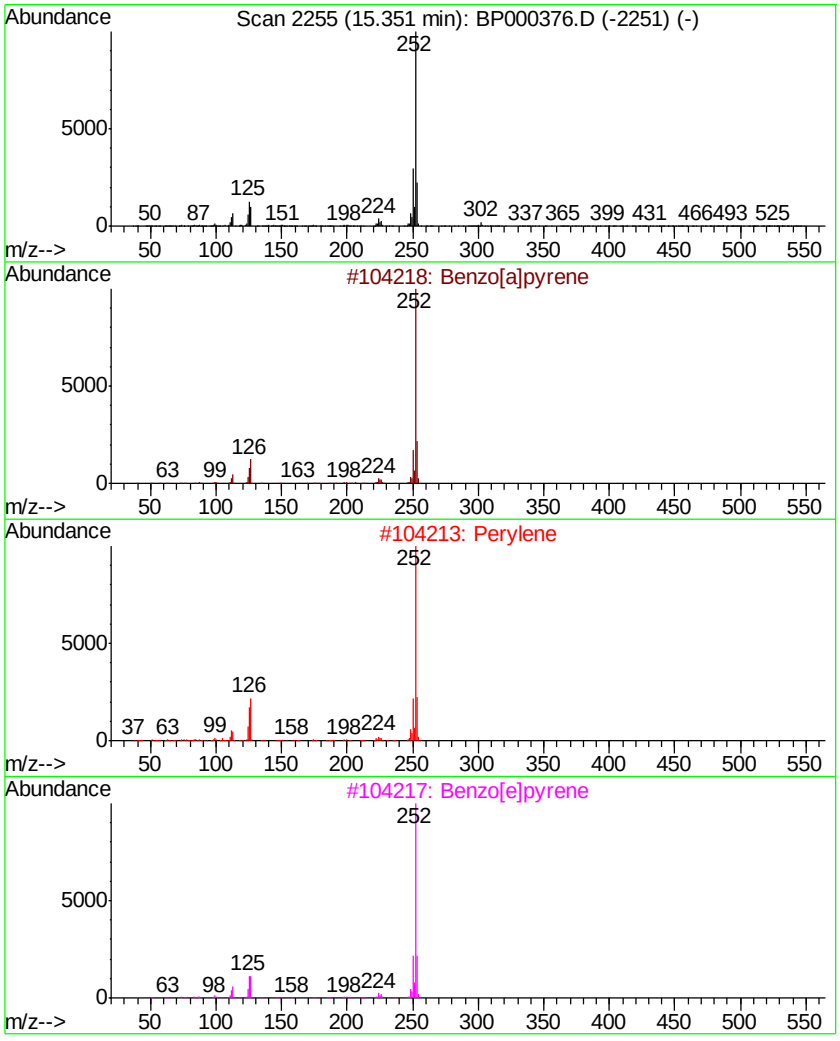
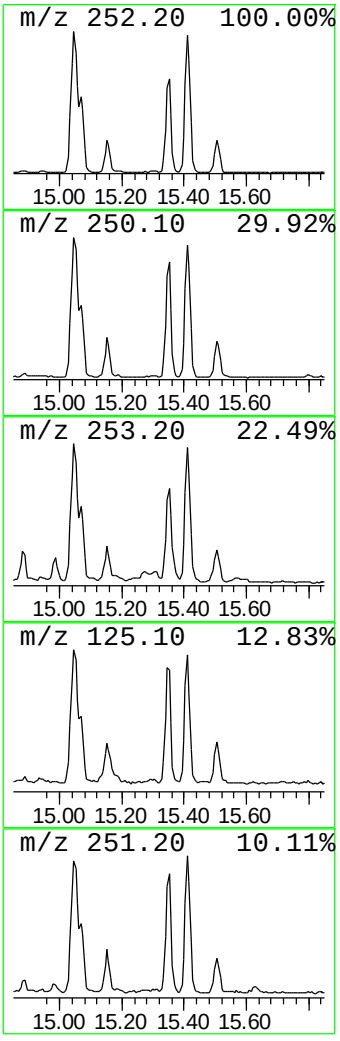
Peak Number 19 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	9.08 ng	779805	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	93
2	Perylene	252	C20H12	000198-55-0	93
3	Benzo[e]pyrene	252	C20H12	000192-97-2	90
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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

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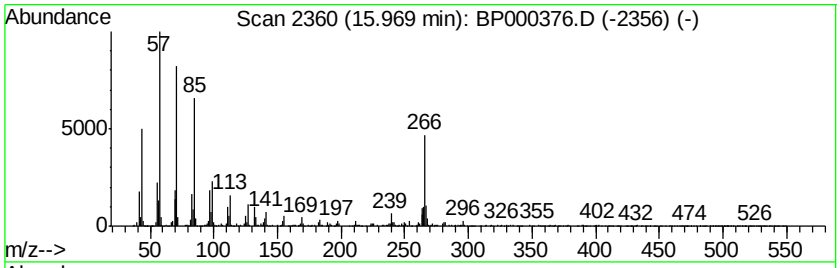
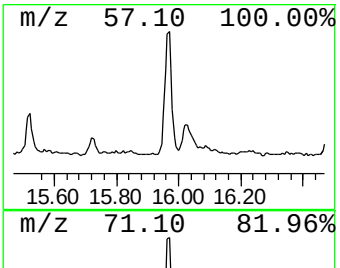
Peak Number 20 unknown15.97 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	3.78 ng	325153	Perylene-d12	15.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,5-Diethylheptadecane	296	C21H44	1000360-41-7	40
2	13,17,21-Trimethylheptatriacontane	563	C40H82	058668-40-9	38
3	3,3-Diethylheptadecane	296	C21H44	1000360-41-6	12
4	Phthalic acid, furfuryl heptyl e...	348	C20H28O5	1000314-92-5	9
5	5-Methyldocosane	324	C23H48	025163-52-4	9





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP092319\
Data File : BP000376.D
Acq On : 23 Sep 2019 21:30
Operator : HP/JU
Sample : K4997-05
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument : BNA_P
ClientSampleId : WC-10-091919

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
unknown6.57	6.57	88.2	ng	6291190	1	6.79	1426790	20.0
Anthracene, 2-met...	11.83	5.2	ng	462734	4	11.33	1783660	20.0
Phenanthrene, 2-m...	11.86	8.7	ng	773669	4	11.33	1783660	20.0
4H-Cyclopenta[def...	11.95	8.7	ng	776411	4	11.33	1783660	20.0
Phenanthrene, 1-m...	11.97	4.5	ng	397697	4	11.33	1783660	20.0
Tricyclo[8.2.2.2(...	12.13	3.2	ng	287442	4	11.33	1783660	20.0
Phenanthrene, 2,5...	12.39	6.4	ng	574728	4	11.33	1783660	20.0
di-p-Tolylacetylene	12.42	3.7	ng	329641	4	11.33	1783660	20.0
Cyclopenta(def)ph...	12.47	4.1	ng	368832	4	11.33	1783660	20.0
Pyrene, 1-methyl-	13.00	3.0	ng	463475	5	13.99	3132920	20.0
11H-Benzo[b]fluorene	13.12	3.1	ng	486495	5	13.99	3132920	20.0
Fluoranthene, 2-m...	13.18	3.0	ng	478123	5	13.99	3132920	20.0
Pyrene, 4-methyl-	13.22	3.1	ng	491926	5	13.99	3132920	20.0
7H-Benz[de]anthra...	13.62	3.5	ng	553746	5	13.99	3132920	20.0
5-Eicosene, (E)-	13.84	5.8	ng	914601	5	13.99	3132920	20.0
Benz[a]anthracene...	14.39	3.6	ng	568366	5	13.99	3132920	20.0
unknown14.86	14.86	2.7	ng	234861	6	15.47	1718430	20.0
Perylene	15.35	9.1	ng	779805	6	15.47	1718430	20.0
unknown15.97	15.97	3.8	ng	325153	6	15.47	1718430	20.0