LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.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	3.490	254	264	270	rBV	82622	145948	1.90%	0.110%
2	4.454	423	428	433	rBV	144892	172872	2.25%	0.131%
3	5.213	551	557	560	rBV	4675932	4618209	60.11%	3.495%
4	6.254	728	734	737	rBV	4539594	4850835	63.14%	3.671%
5	6.378	751	755	759	rBV	4862397	5009674	65.21%	3.791%
6	6.613	791	795	798	rBV	2121168	1656448	21.56%	1.253%
7	6.772	817	822	825	rBV	4213454	3905495	50.84%	2.955%
8	7.172	885	890	893	rBV	3452899	3128835	40.73%	2.368%
9	7.890	1008	1012	1015	rBV	2591922	2195323	28.58%	1.661%
10	8.537	1119	1122	1129	rVV4	72964	127802	1.66%	0.097%
11	8.972	1191	1196	1199	rBV	5342153	5062868	65.90%	3.831%
12	9.301	1248	1252	1254	rBV	168255	155844	2.03%	0.118%
13	9.360	1259	1262	1265	rVV	951889	799335	10.40%	0.605%
14	9.413	1269	1271	1279	rVB	119632	138409	1.80%	0.105%
15	9.495	1282	1285	1292	rBV	1207613	953510	12.41%	0.722%
16	9.636	1305	1309	1312	rBV2	2836378	2422007	31.53%	1.833%
17	9.666	1312	1314	1318	rVB	196120	151743	1.98%	0.115%
18	9.842	1339	1344	1348	rBV	179999	227501	2.96%	0.172%
19	9.878	1348	1350	1353	rVB	173176	147209	1.92%	0.111%
20	9.954	1359	1363	1366	rBV2	196067	280168	3.65%	0.212%
21	10.048	1374	1379	1383	rBV4	94872	199471	2.60%	0.151%
22	10.083	1383	1385	1389	rVB2	272520	243271	3.17%	0.184%
23	10.148	1389	1396	1398	rBV3	177406	233743	3.04%	0.177%
24	10.178	1398	1401	1408	rVB	283917	394864	5.14%	0.299%
25	10.419	1437	1442	1447	rBV	3271280	3097598	40.32%	2.344%
26	10.548	1459	1464	1468	rBV4	176860	325115	4.23%	0.246%
27	10.725	1489	1494	1497	rBV4	168964	277073	3.61%	0.210%
28	11.007	1539	1542	1545	rVB2	203720	182211	2.37%	0.138%
29	11.107	1555	1559	1561	rBV	2485983	2275147	29.61%	1.722%
30	11.130	1561	1563	1566	rVB	2140172	1597918	20.80%	1.209%
31	11.183	1568	1572	1574	rBV	851857	707258	9.21%	0.535%
32	11.225	1574	1579	1582	rBV2	213061	224747	2.93%	0.170%
33	11.407	1608	1610	1612	rVV	170453	141943	1.85%	0.107%
34	11.436	1612	1615	1618	rVB	411822	365910	4.76%	0.277%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.519	1627	1629	1633	rVB	182810	194771	2.54%	0.147%
36	11.607	1641	1644	1647	rBV	870986	804598	10.47%	0.609%
37	11.636	1647	1649	1651	rVV	1200321	853211	11.11%	0.646%
38	11.660	1651	1653	1655	rVV	465650	375291	4.88%	0.284%
39	11.683	1655	1657	1659	rVB	517113	389292	5.07%	0.295%
40	11.719	1659	1663	1665	rBV	1638463	1592294	20.73%	1.205%
41	11.742	1665	1667	1670	rVB	851241	652911	8.50%	0.494%
42	11.807	1674	1678	1680	rBV3	103159	141035	1.84%	0.107%
43	11.842	1681	1684	1687	rVB2	331859	276205	3.60%	0.209%
44	11.907	1692	1695	1696	rBV2	438793	394837	5.14%	0.299%
45	11.989	1705	1709	1710	rBV2	117663	147777	1.92%	0.112%
46	12.030	1714	1716	1718	rBV	216398	216928	2.82%	0.164%
47	12.054	1718	1720	1722	rVV	391582	293624	3.82%	0.222%
48	12.083	1722	1725	1727	rVV	540261	406252	5.29%	0.307%
49	12.107	1727	1729	1732	rVB	397985	300631	3.91%	0.227%
50	12.160	1734	1738	1740	rBV	1350838	1358190	17.68%	1.028%
51	12.189	1740	1743	1746	rVV	687852	772954	10.06%	0.585%
52	12.213	1746	1747	1749	rVV	323287	208404	2.71%	0.158%
53	12.236	1749	1751	1757	rVB3	650558	942638	12.27%	0.713%
54	12.319	1760	1765	1768	rBV	6026646	6131516	79.81%	4.640%
55	12.366	1771	1773	1777	rBV3	326547	463176	6.03%	0.350%
56	12.407	1777	1780	1782	rVB	531293	440382	5.73%	0.333%
57	12.448	1783	1787	1788	rBV2	378895	439492	5.72%	0.333%
58	12.548	1798	1804	1806	rBV2	5909458	7593054	98.84%	5.746%
59	12.607	1809	1814	1817	rVB3	550489	868654	11.31%	0.657%
60	12.660	1820	1823	1825	rBV	538597	460861	6.00%	0.349%
61	12.695	1825	1829	1832	rBV	4640779	4276130	55.66%	3.236%
62	12.760	1835	1840	1843	rBV3	1052877	1434360	18.67%	1.085%
63	12.819	1848	1850	1852	rBV3	154866	165687	2.16%	0.125%
64	12.848	1852	1855	1856	rVV3	818037	924826	12.04%	0.700%
65	12.866	1856	1858	1862	rVB	1539854	1583731	20.61%	1.198%
66	12.907	1863	1865	1867	rBV4	173785	182923	2.38%	0.138%
67	12.936	1867	1870	1873	rVV	977211	948944	12.35%	0.718%
68	12.972	1873	1876	1879	rVV	1595357	1506412	19.61%	1.140%
69	12.995	1879	1880	1883	rVB2	311681	251862	3.28%	0.191%
70	13.030	1883	1886	1888	rBV2	278433	267078	3.48%	0.202%
71	13.060	1888	1891	1894	rVV	1028024	905867	11.79%	0.685%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

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

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.089	1894	1896	1900	rVB	955881	876128	11.40%	0.663%
73	13.242	1920	1922	1923	rBV2	199942	173400	2.26%	0.131%
74	13.366	1941	1943	1949	rVB2	831603	1007098	13.11%	0.762%
75	13.436	1953	1955	1958	rVB	289532	216092	2.81%	0.164%
76	13.477	1958	1962	1966	rBV2	1122106	1590804	20.71%	1.204%
77	13.513	1966	1968	1969	rVV	861393	637014	8.29%	0.482%
78	13.530	1969	1971	1975	rVV2	777033	875552	11.40%	0.663%
79	13.577	1976	1979	1983	rVB	699782	778373	10.13%	0.589%
80	13.619	1983	1986	1989	rBV3	637708	750953	9.77%	0.568%
81	13.730	1999	2005	2008	rBV2	4889078	7682551	100.00%	5.813%
82	13.766	2008	2011	2016	rVB	4294035	4529947	58.96%	3.428%
83	13.836	2018	2023	2026	rBV2	981381	1123145	14.62%	0.850%
84	13.871	2026	2029	2031	rBV	531550	471542	6.14%	0.357%
85	13.942	2038	2041	2044	rVB3	314073	368408	4.80%	0.279%
86	14.083	2062	2065	2067	rBV	456651	521768	6.79%	0.395%
87	14.119	2068	2071	2074	rVV	1423283	1337454	17.41%	1.012%
88	14.154	2074	2077	2080	rVB	689272	632526	8.23%	0.479%
89	14.213	2084	2087	2089	rVB	590525	520552	6.78%	0.394%
90	14.242	2089	2092	2094	rBV	998889	1017442	13.24%	0.770%
91	14.419	2119	2122	2123	rBV2	325193	361562	4.71%	0.274%
92	14.530	2139	2141	2145	rVB3	487571	484246	6.30%	0.366%
93	14.736	2171	2176	2178	rBV	3509664	5558890	72.36%	4.206%
94	14.824	2188	2191	2197	rVB2	1116370	1369710	17.83%	1.036%
95	14.995	2216	2220	2225	rVB	2141125	2754526	35.85%	2.084%
96	15.054	2225	2230	2235	rBV	3263396	3984681	51.87%	3.015%
97	15.107	2235	2239	2241	rBV	999720	1170128	15.23%	0.885%
98	15.130	2241	2243	2247	rVB	872968	853578	11.11%	0.646%
99	16.383	2451	2456	2464	rVB2	1450147	2680533	34.89%	2.028%
100	16.765	2516	2521	2534	rVB	1054554	2238746	29.14%	1.694%

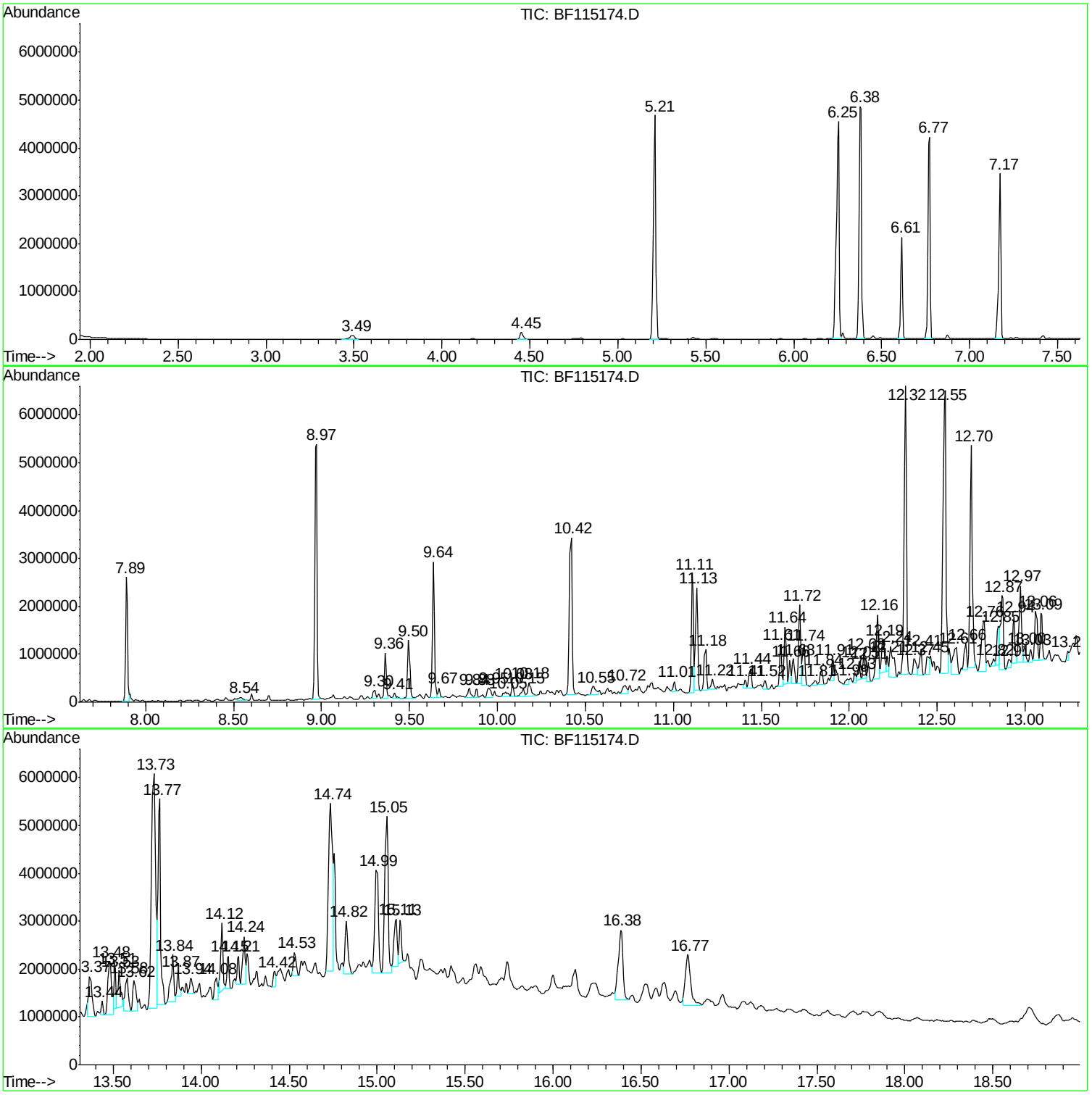
Sum of corrected areas: 132150451

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

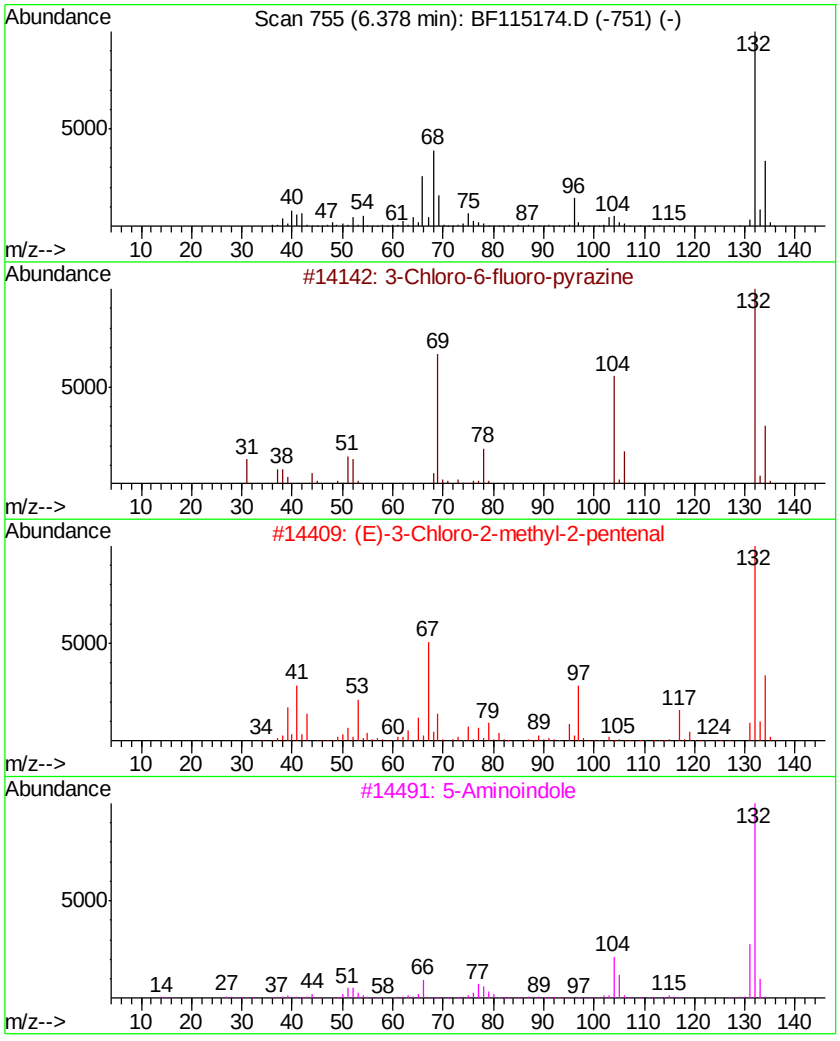
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

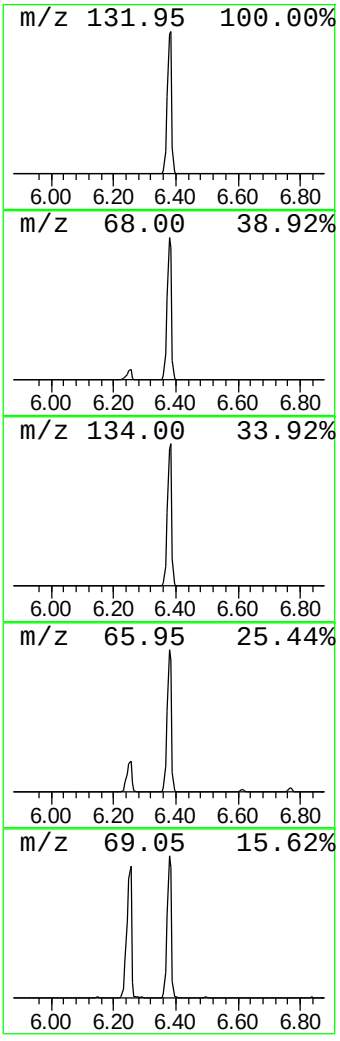
****

Peak Number 1 unknown6.38 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.38	60.49 ng	5009670	1,4-Dichlorobenzene-d4	6.61

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Amphetaminil	250	C17H18N2	017590-01-1	10
5	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

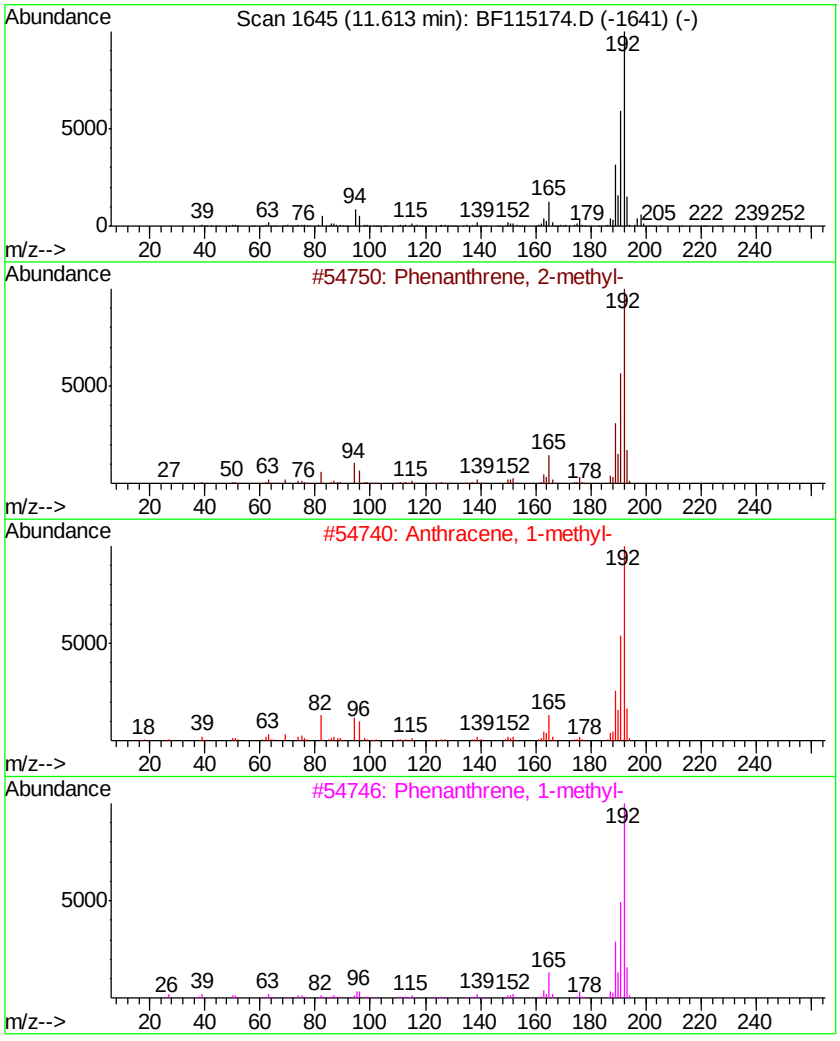
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

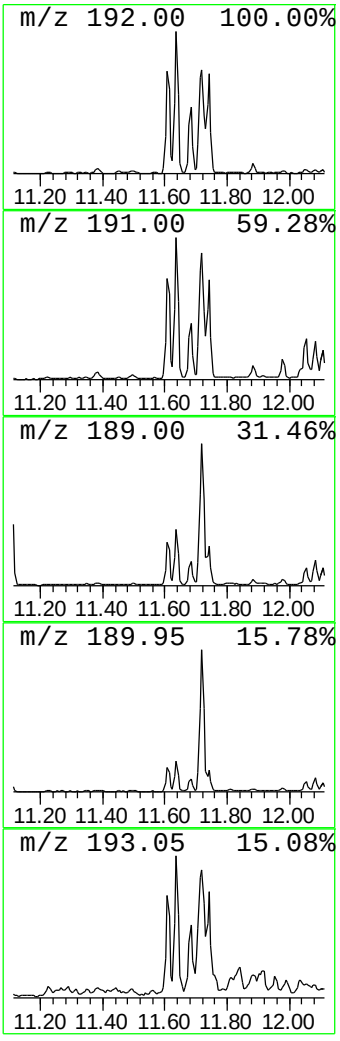
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.61	7.07 ng	804598	Phenanthrene-d10	11.11

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





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

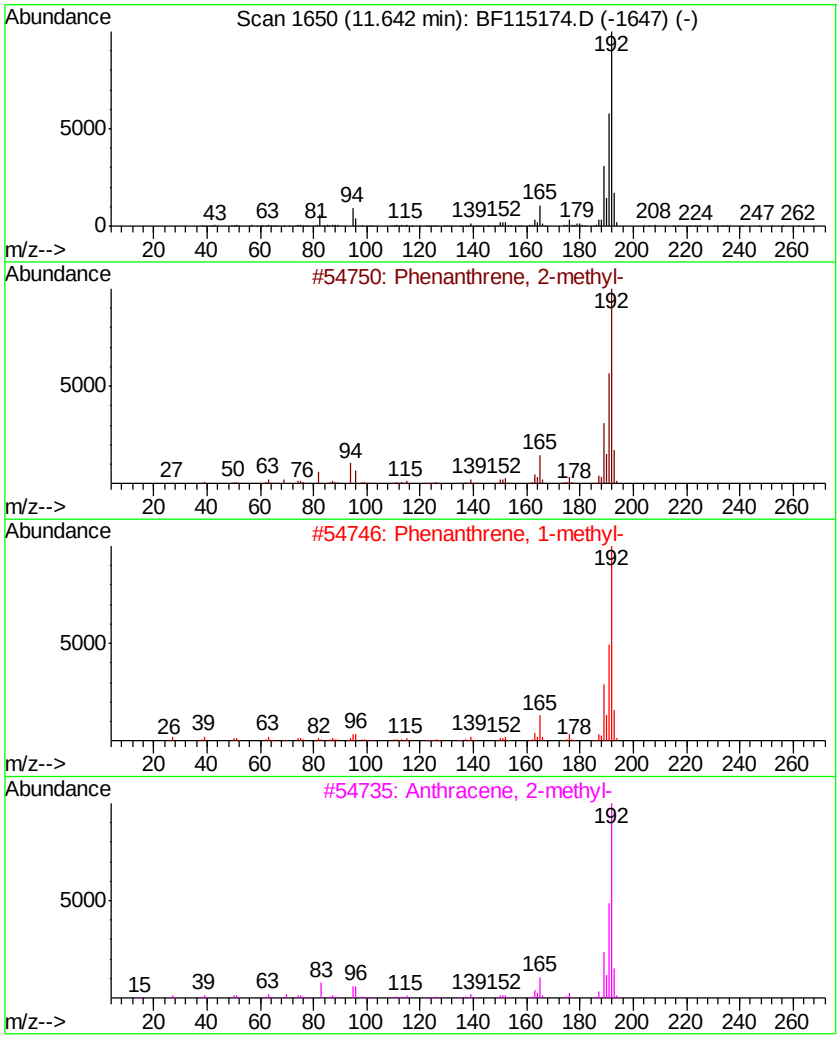
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

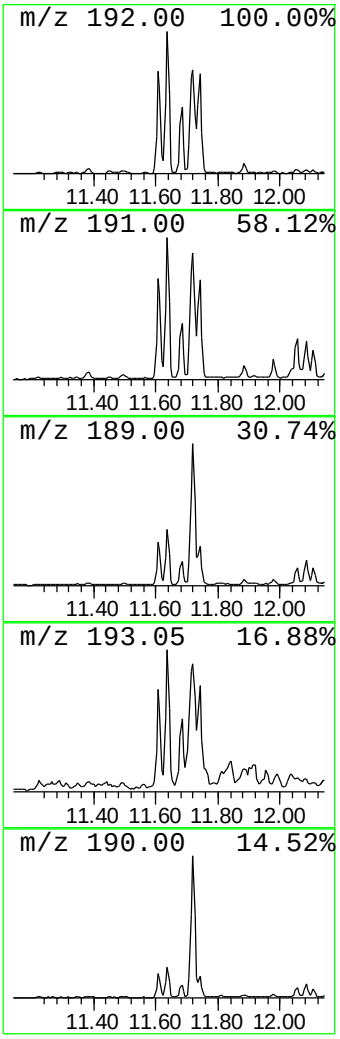
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.64	7.50 ng	853211	Phenanthrene-d10	11.11

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	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

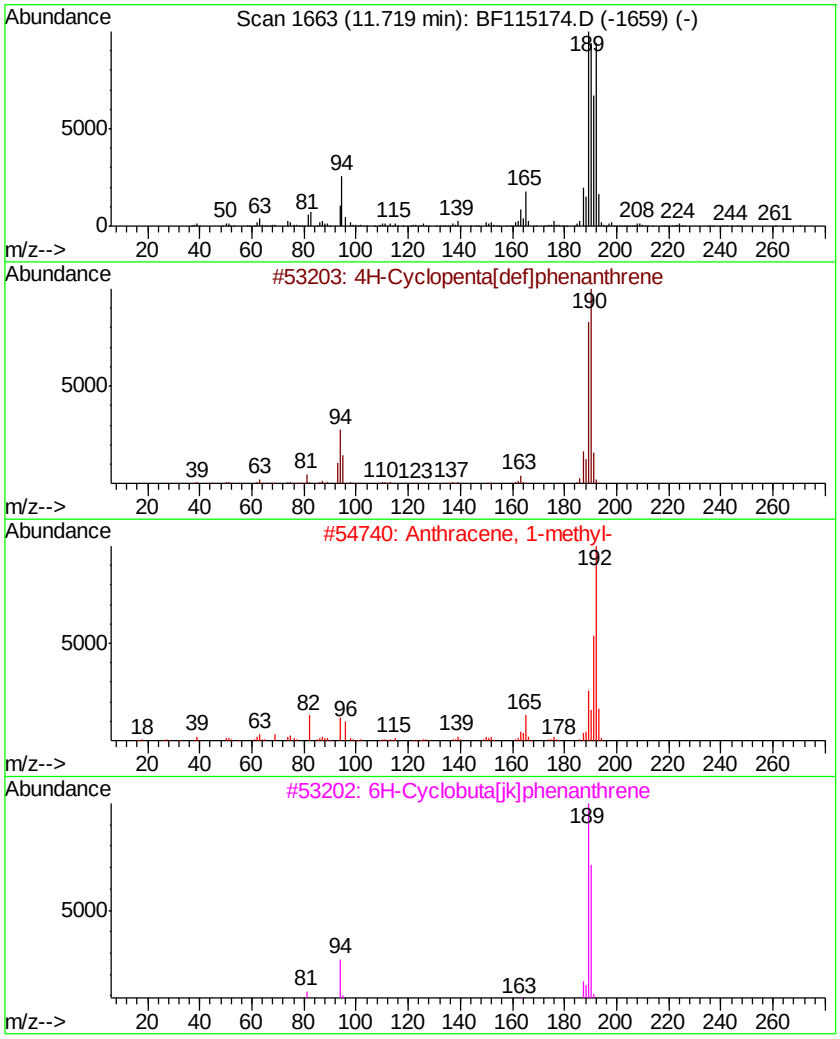
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

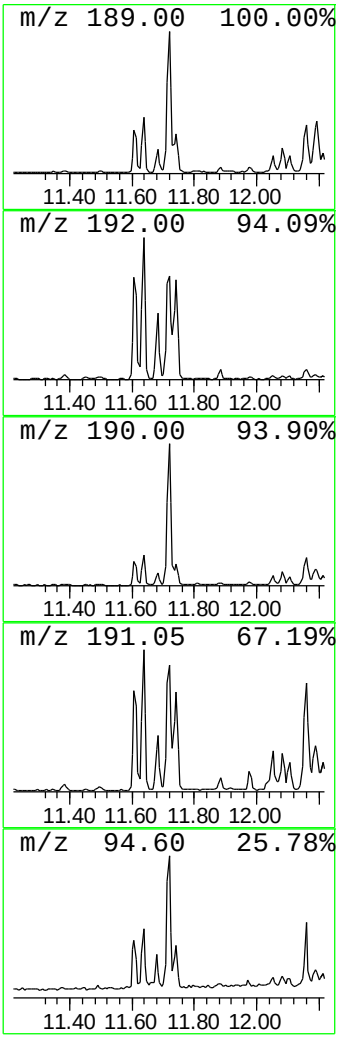
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	14.00 ng	1592290	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	91
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	60
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	42
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

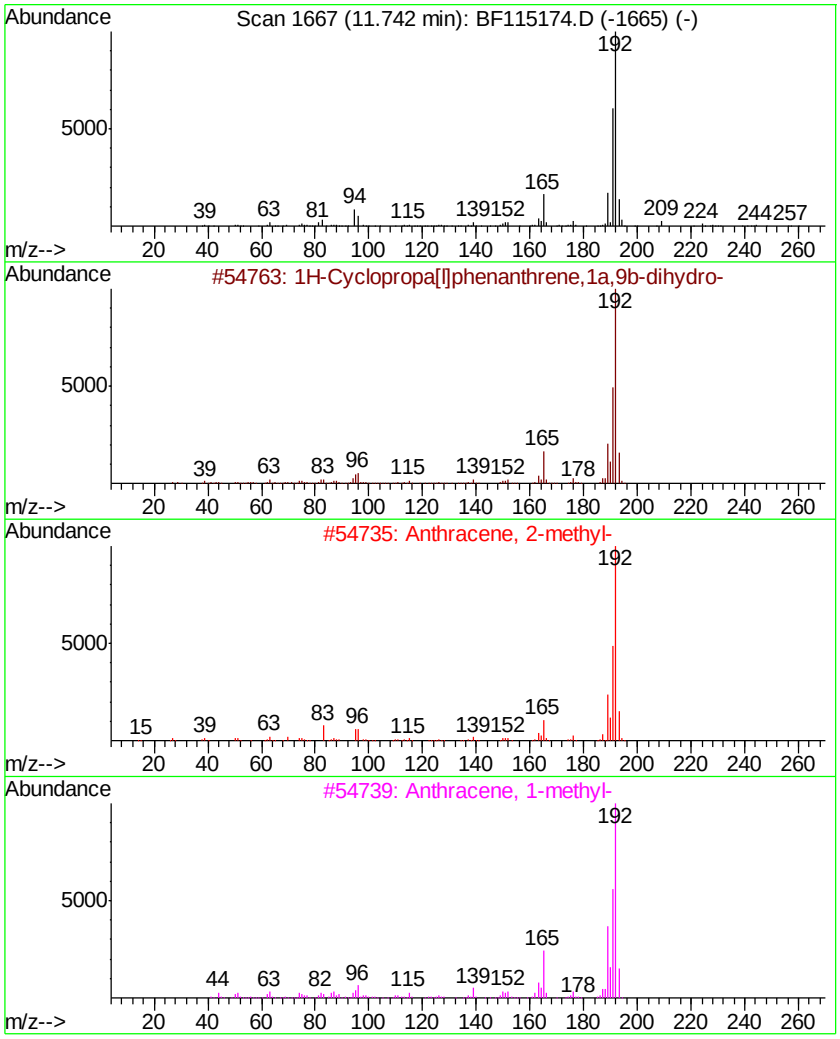
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

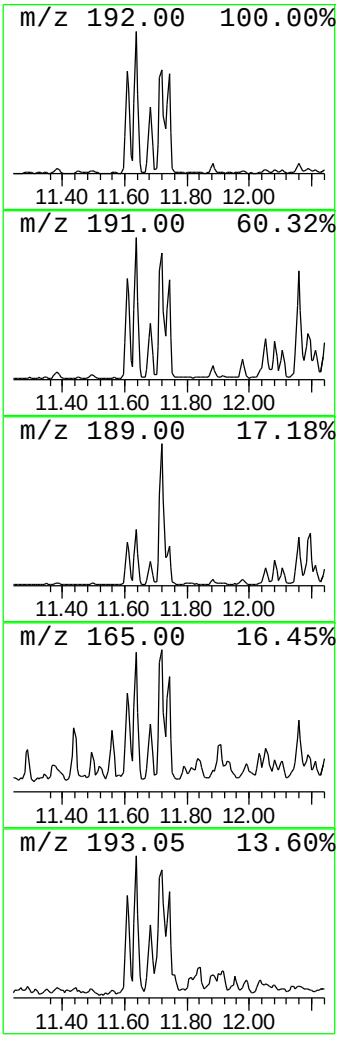
****

Peak Number 6 1H-Cyclopropa[l]phenanthren... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	5.74 ng	652911	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	87
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

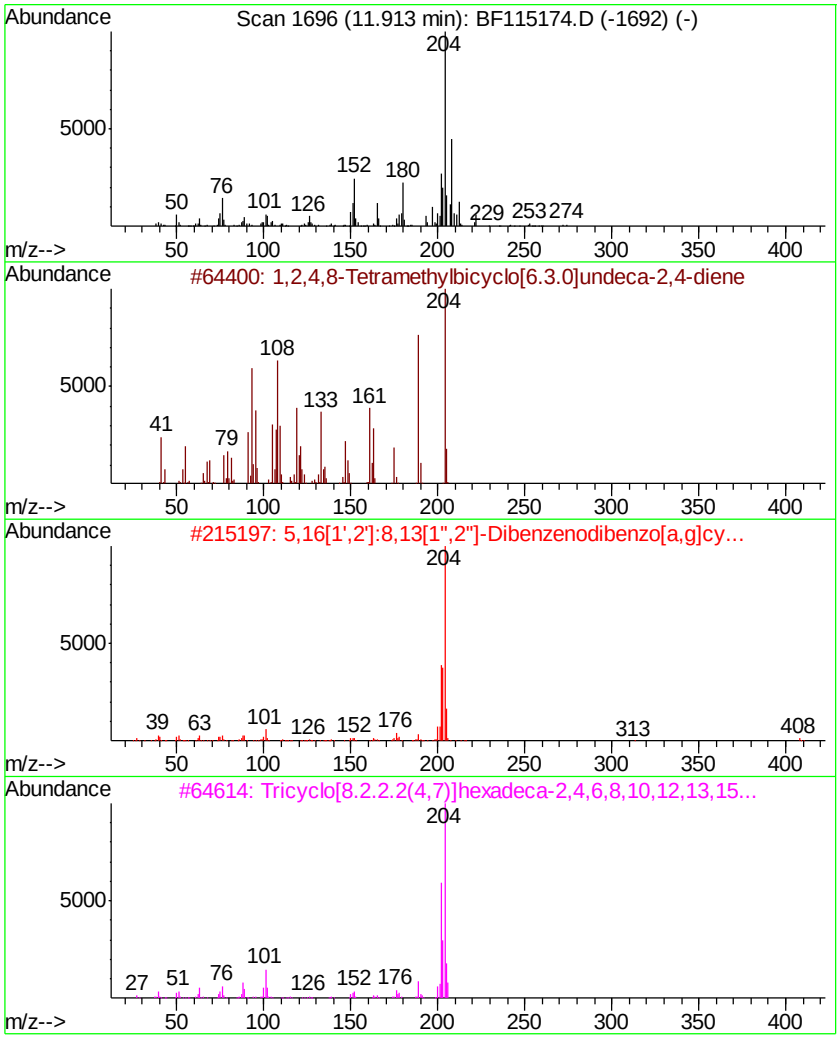
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

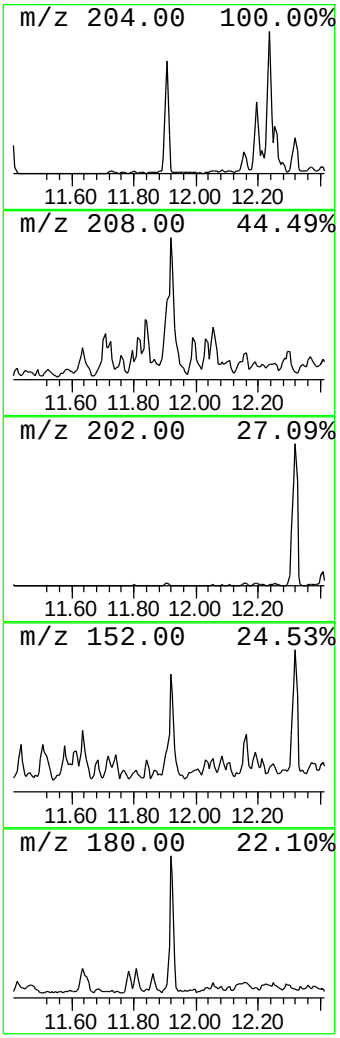
****

Peak Number 7 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	3.47 ng	394837	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	89
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	49





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

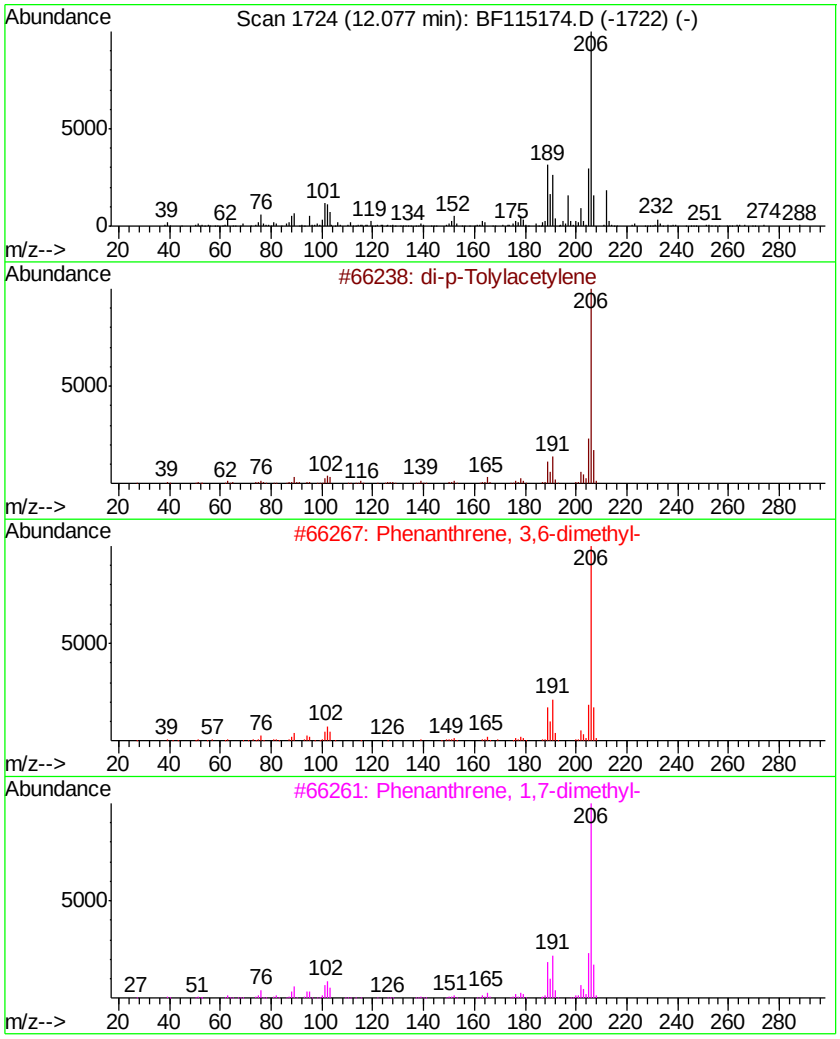
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

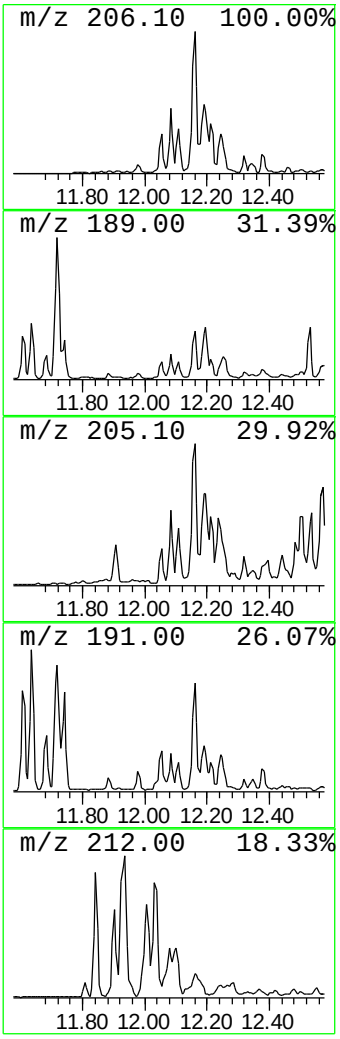
****

Peak Number 8 di-p-Tolylacetylene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	3.57 ng	406252	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

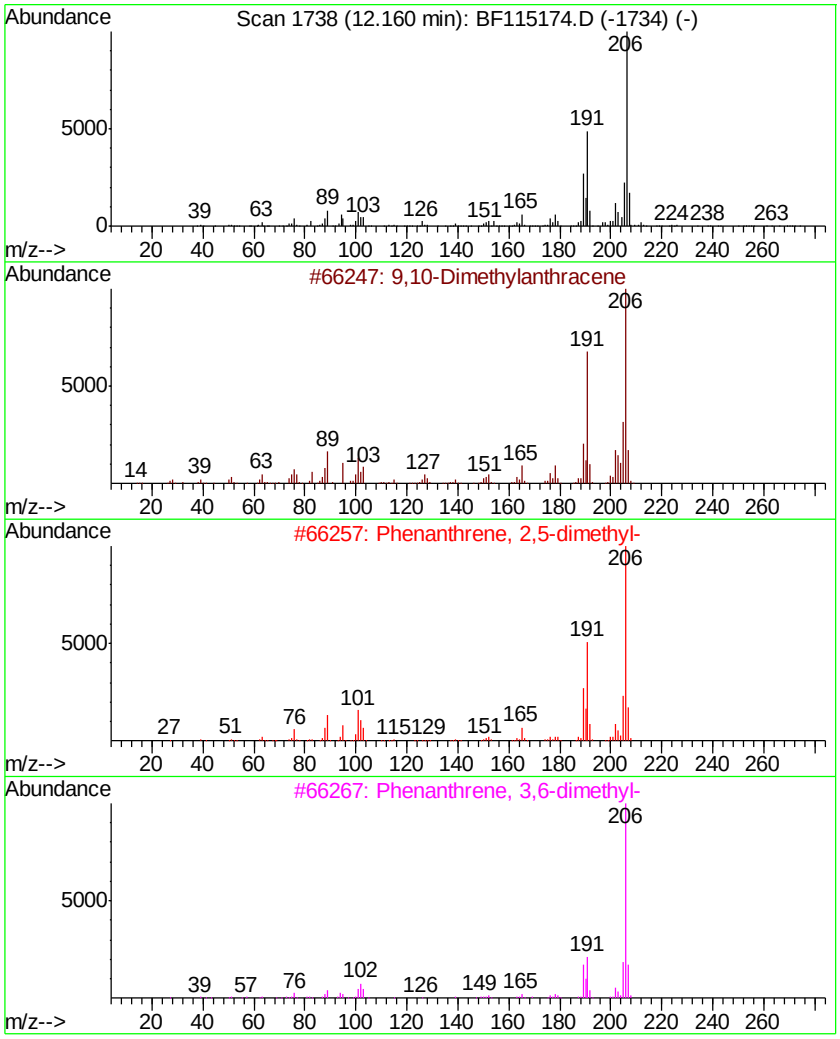
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

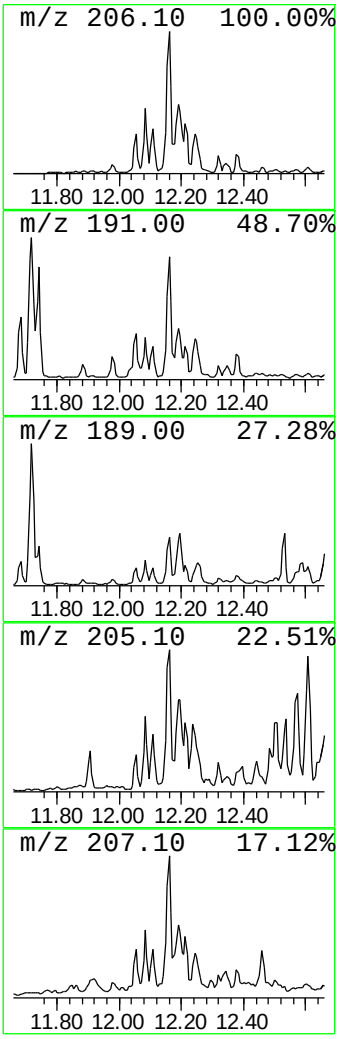
****

Peak Number 9 9,10-Dimethylanthracene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	11.94 ng	1358190	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

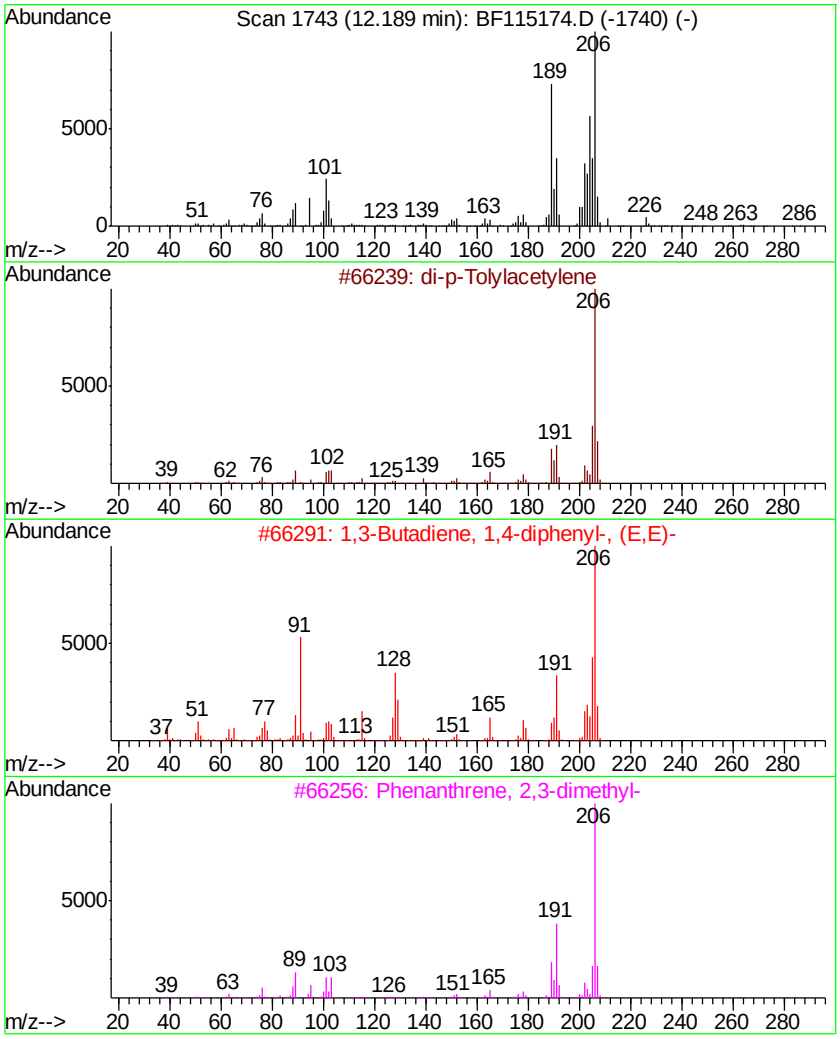
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

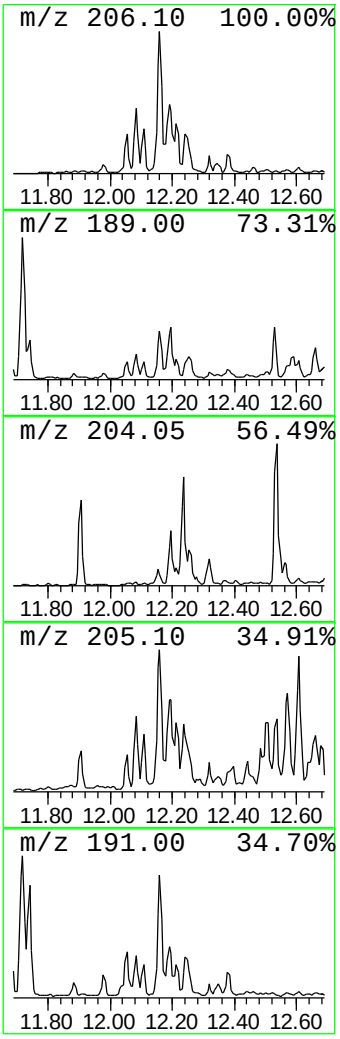
****

Peak Number 10 unknown12.19 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	6.79 ng	772954	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	49
2	1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	46
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	46
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	45
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

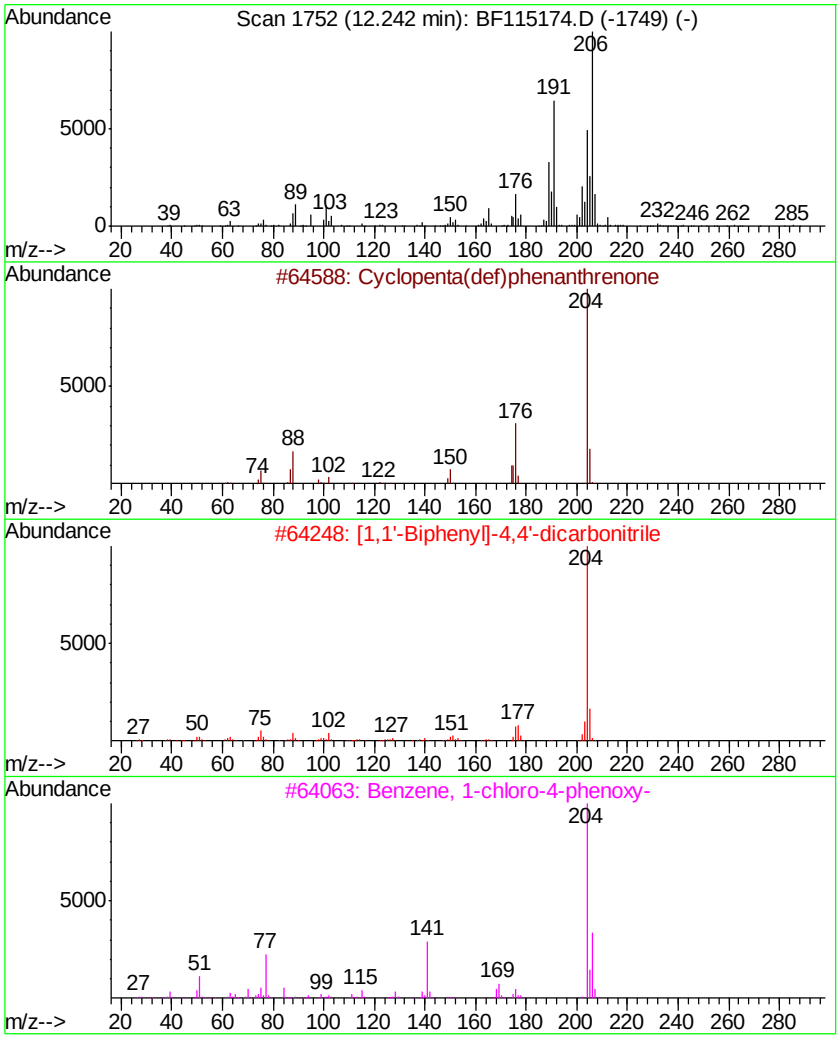
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

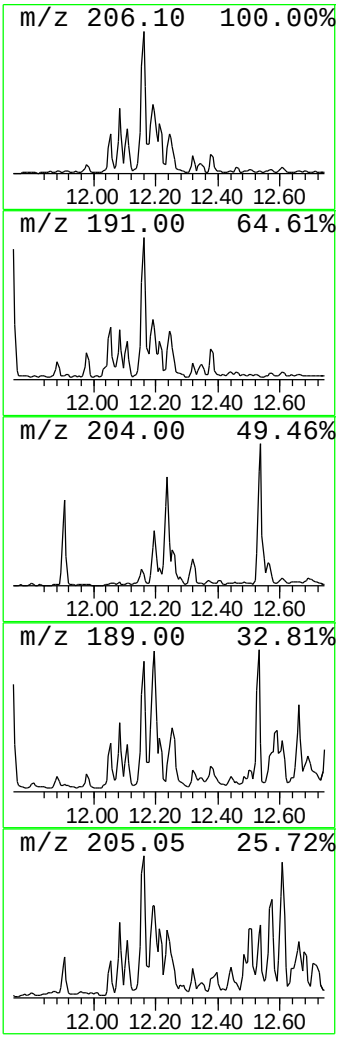
****

Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	8.29 ng	942638	Phenanthrene-d10	11.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3	Benzene, 1-chloro-4-phenoxy-	204	C12H9ClO	007005-72-3	49
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	49
5	[1,1'-Biphenyl-3-ol], 6-chloro-	204	C12H9ClO	021345-13-1	47





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

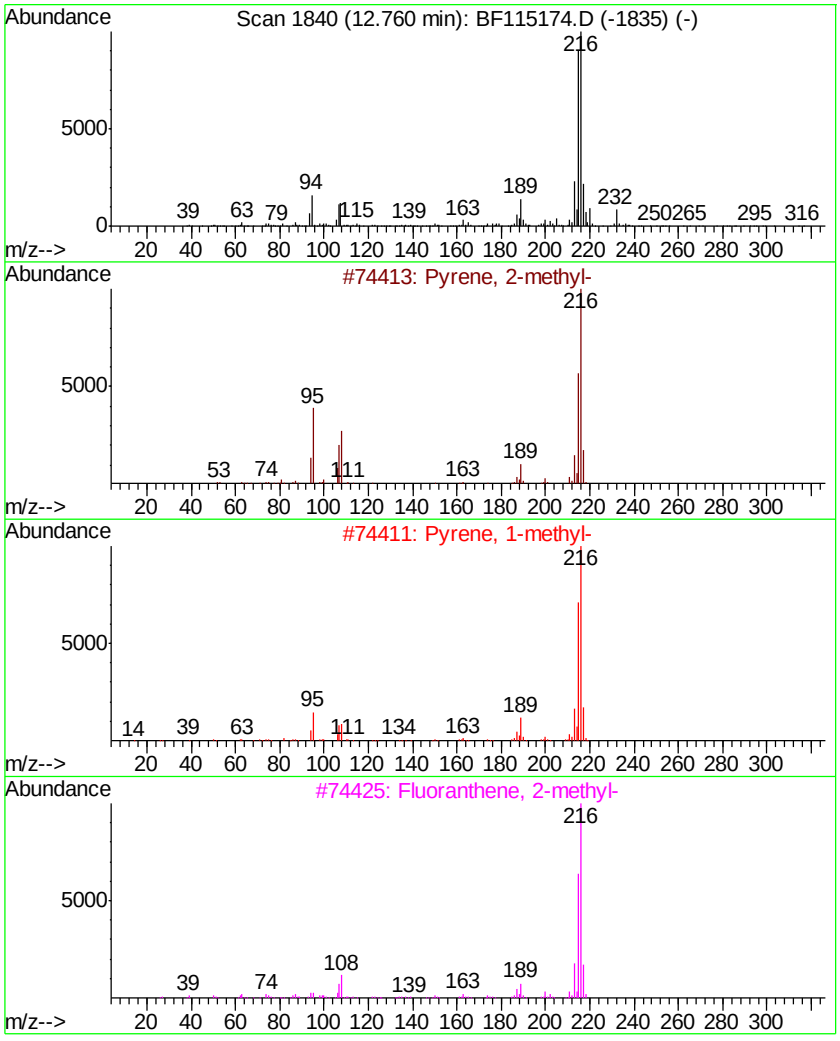
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

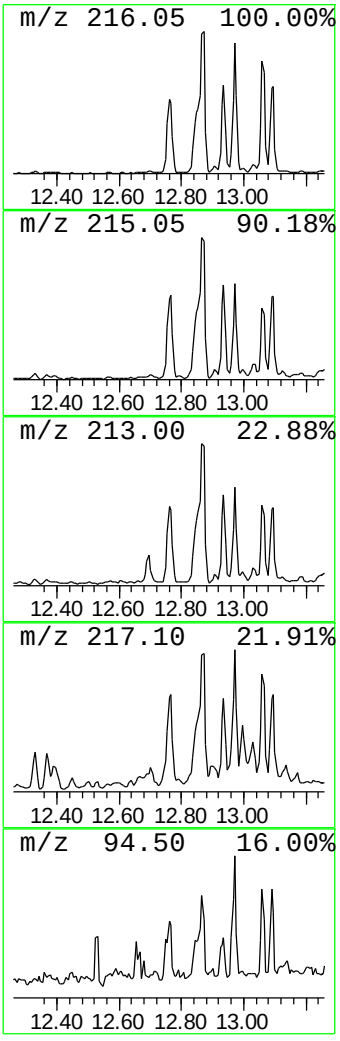
****

Peak Number 13 Pyrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.76	3.73 ng	1434360	Chrysene-d12	13.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

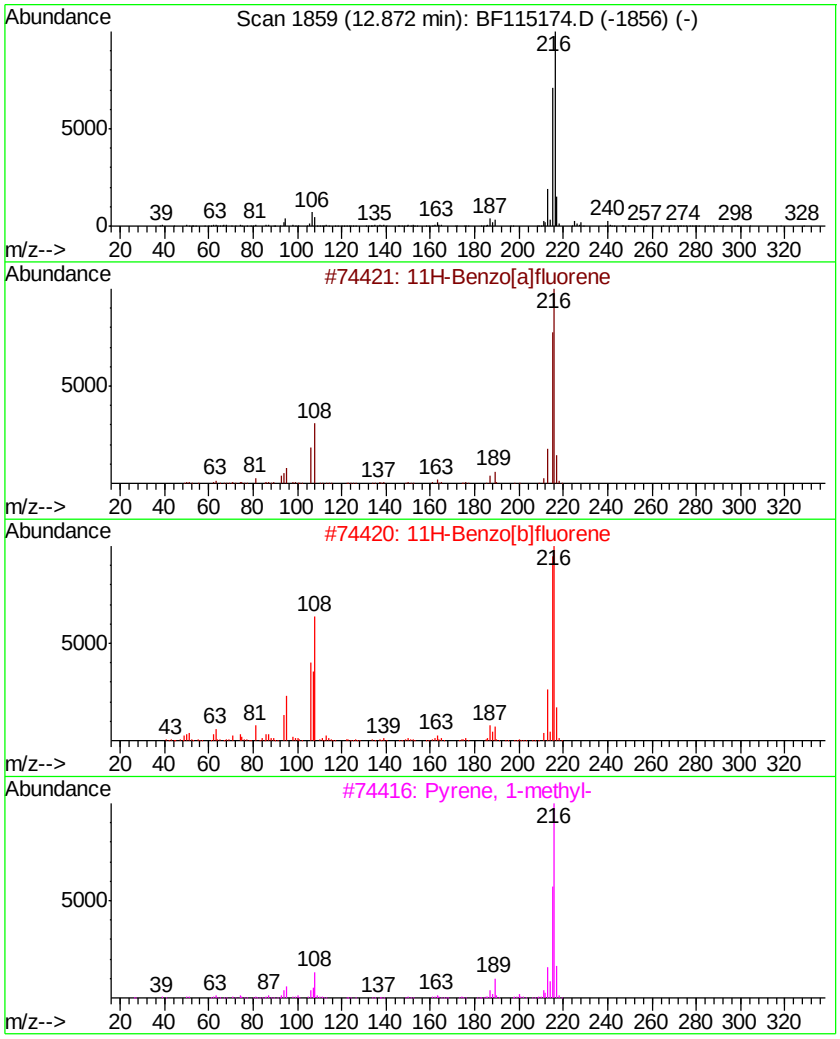
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

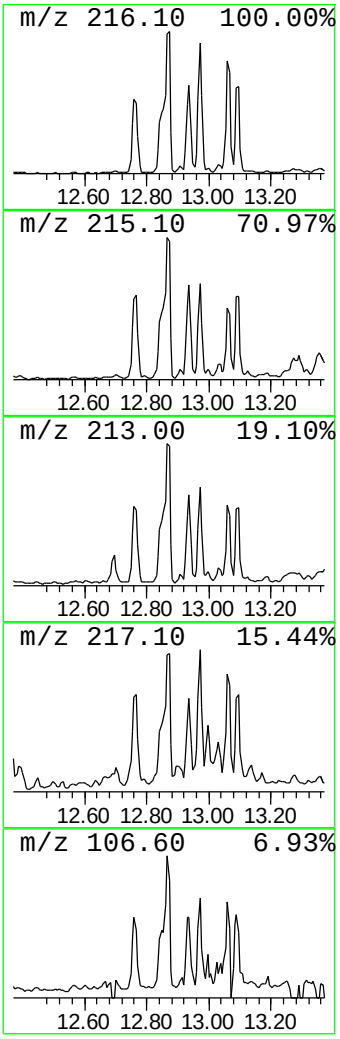
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.87	4.12 ng	1583730	Chrysene-d12	13.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	62





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

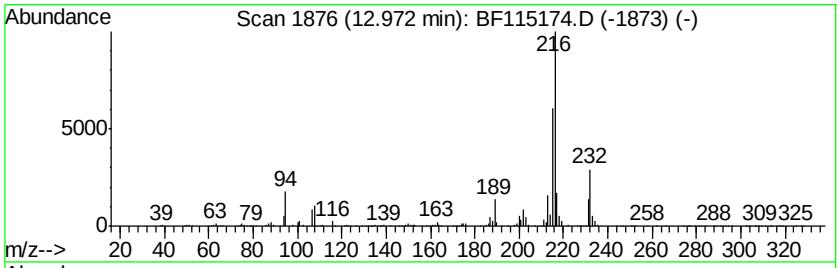
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

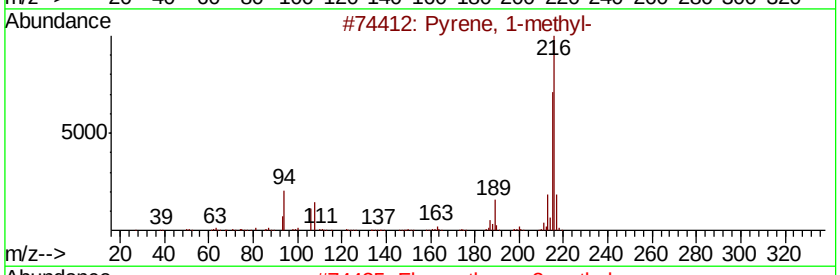
****

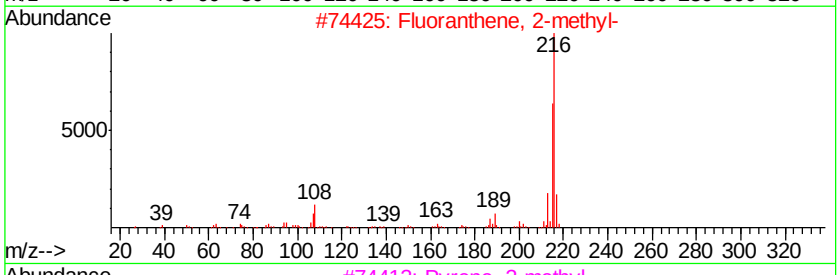
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 15

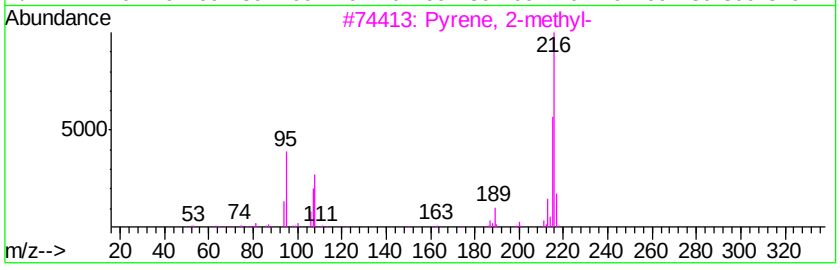
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.97	3.92 ng	1506410	Chrysene-d12	13.74

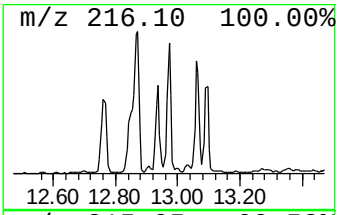
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81

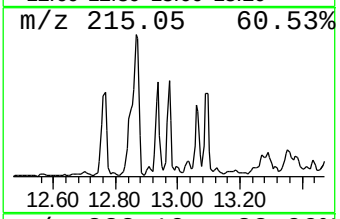


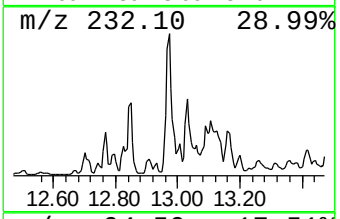


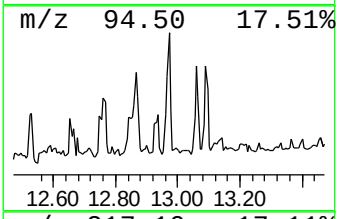


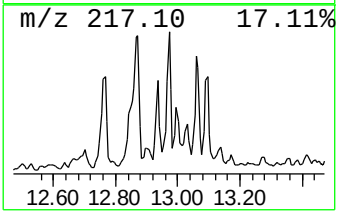












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

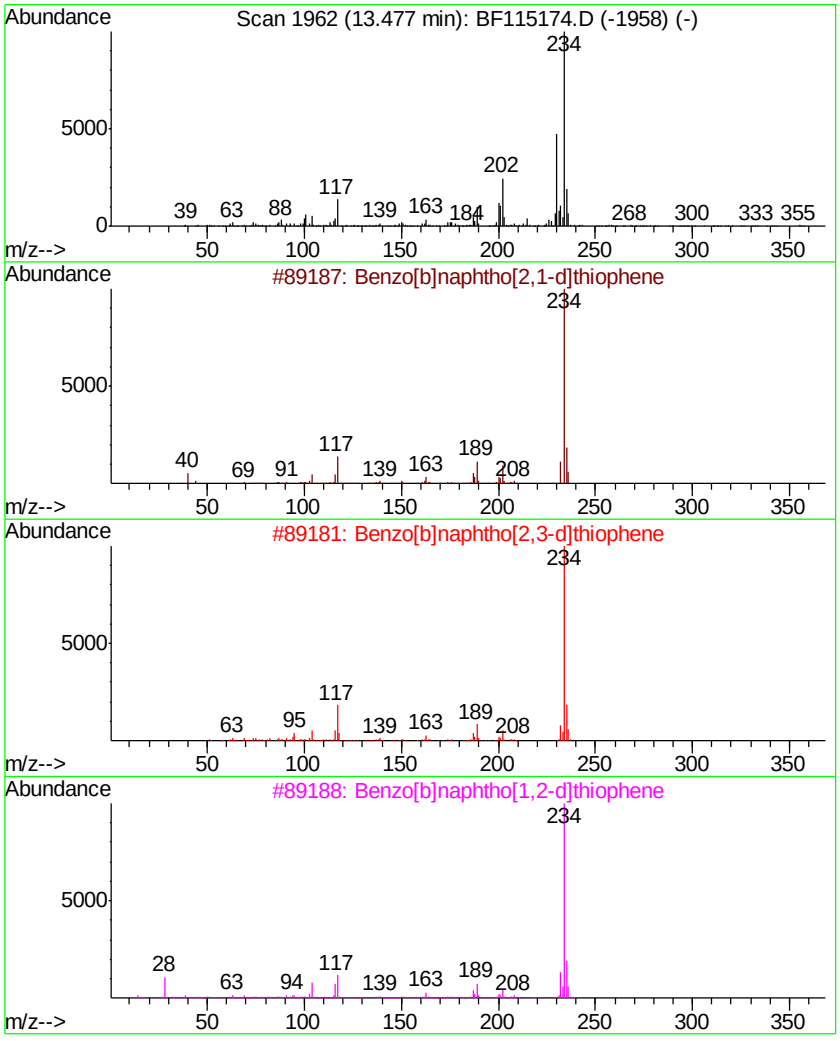
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

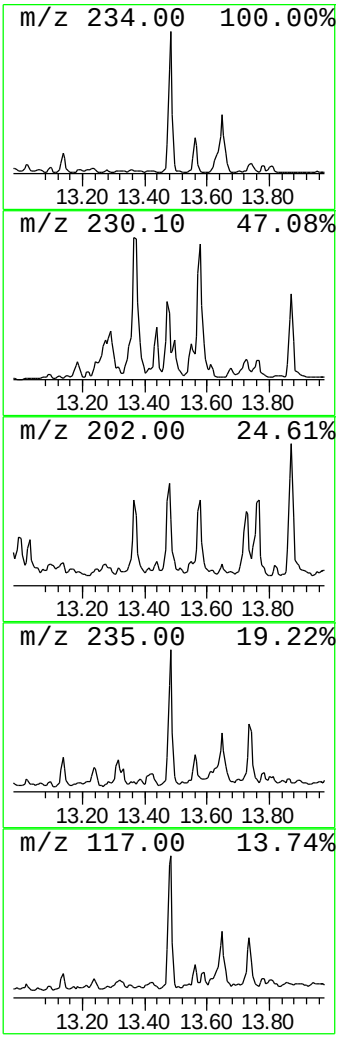
****

Peak Number 16 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.48	4.14 ng	1590800	Chrysene-d12	13.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	83
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	49
4	Anthra[1,9a,9-cd:5,10a,10-c'd']d...	234	C14H6N2O2	000201-91-2	38
5	3.beta.-Myristoylolean-12-en-16....	653	C44H76O3	1000104-37-2	33





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

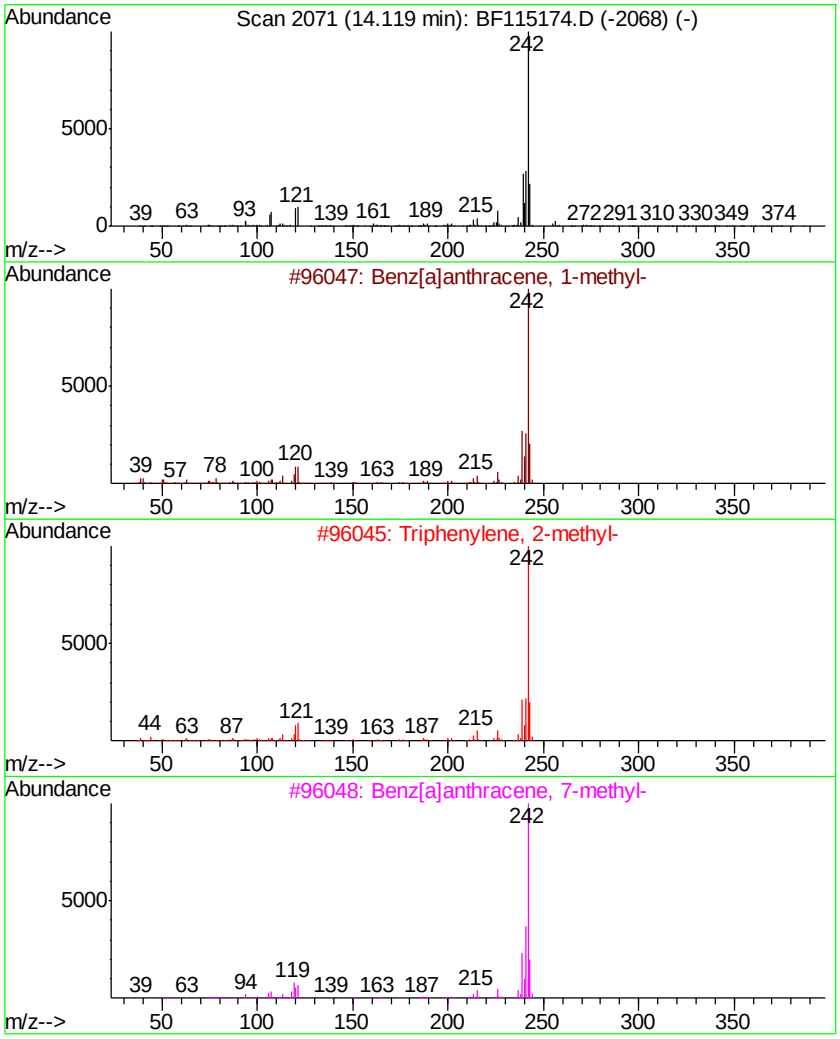
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

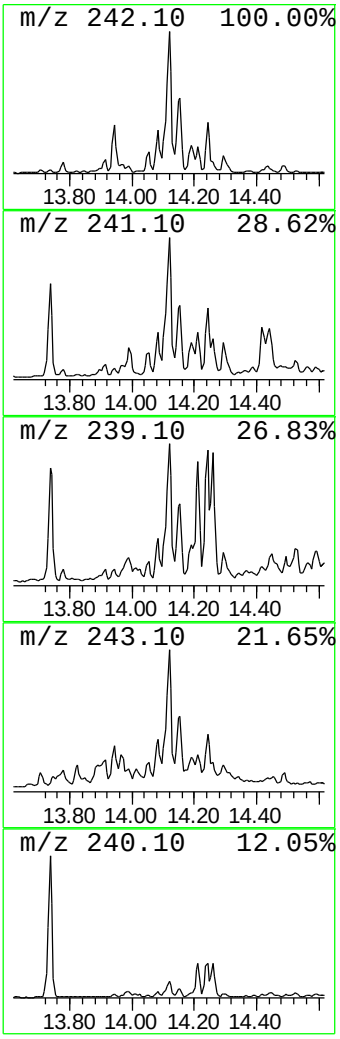
****

Peak Number 17 Benz[a]anthracene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.12	3.48 ng	1337450	Chrysene-d12	13.74

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	95
2	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
4	Chrysene, 5-methyl-	242	C19H14	003697-24-3	91
5	Chrysene, 3-methyl-	242	C19H14	003351-31-3	90





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

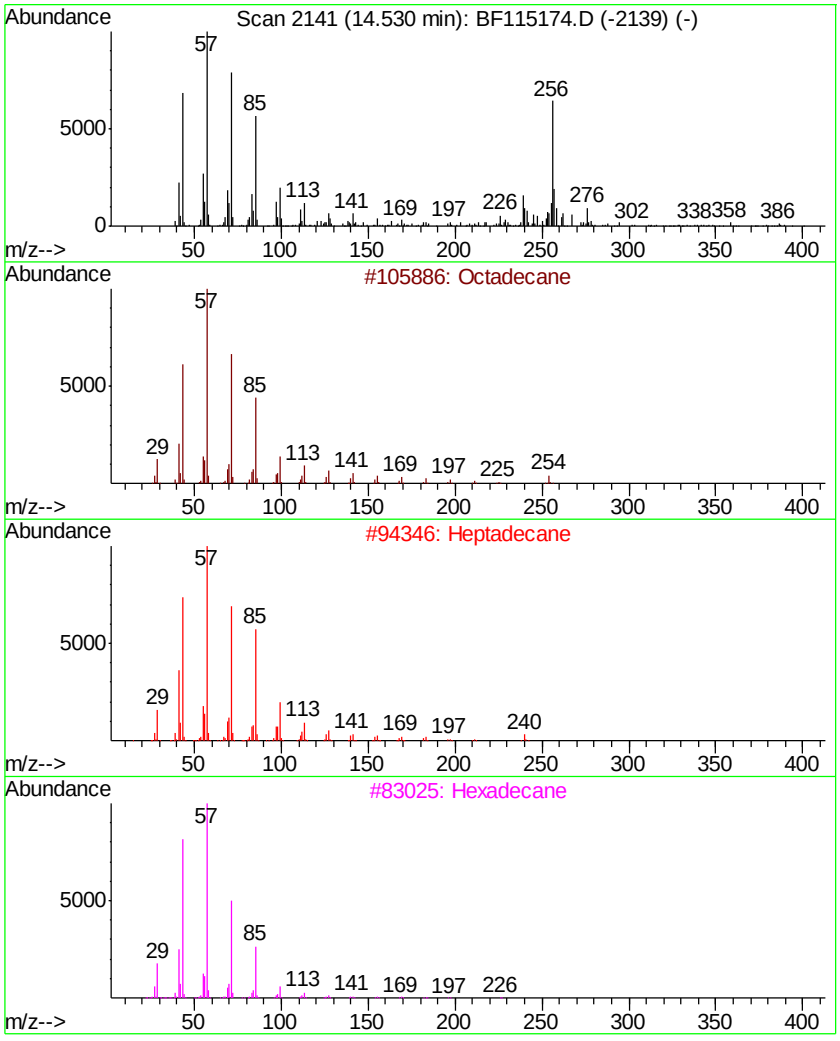
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

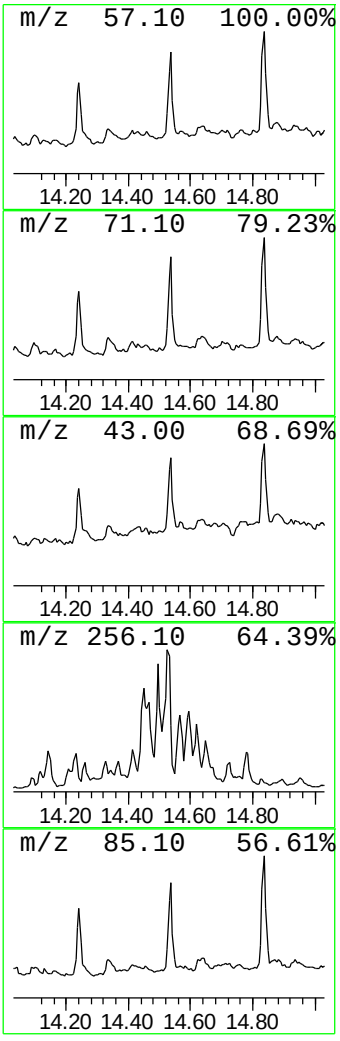
****

Peak Number 18 Octadecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.53	8.28 ng	484246	Perylene-d12	15.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	87
2	Heptadecane	240	C17H36	000629-78-7	78
3	Hexadecane	226	C16H34	000544-76-3	70
4	Tetracosane	338	C24H50	000646-31-1	55
5	Heneicosane	296	C21H44	000629-94-7	55





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

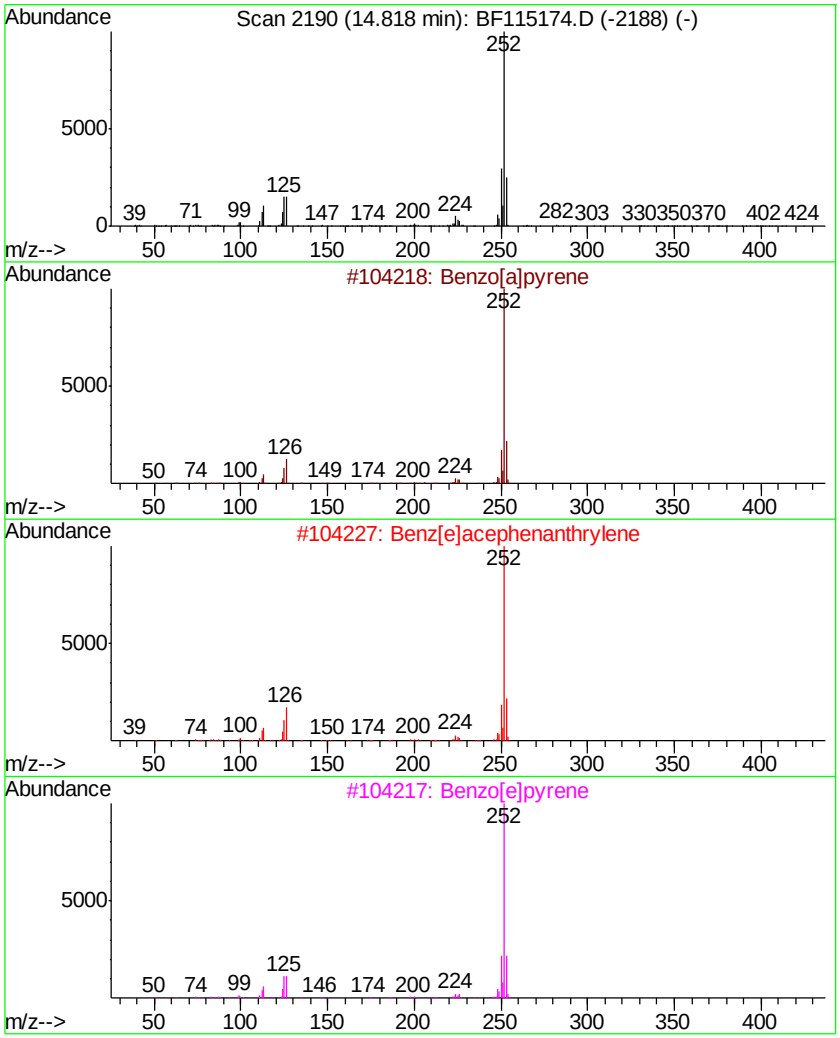
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

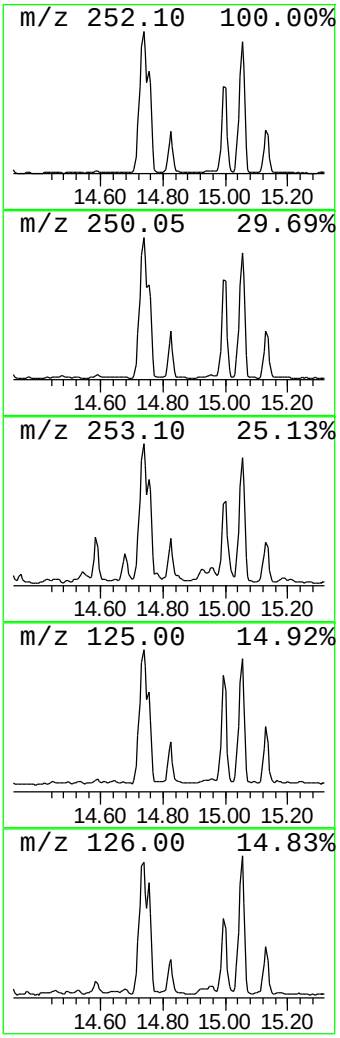
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	23.41 ng	1369710	Perylene-d12	15.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	94
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[e]pyrene	252	C20H12	000192-97-2	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Perylene	252	C20H12	000198-55-0	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF062419\
Data File : BF115174.D
Acq On : 25 Jun 2019 3:27
Operator : HP/JU
Sample : K3158-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : OK-03-062019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.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
unknown6.38	6.38	60.5	ng	5009670	1	6.61	1656450	20.0
Phenanthrene, 2-m...	11.61	7.1	ng	804598	4	11.11	2275150	20.0
Phenanthrene, 1-m...	11.64	7.5	ng	853211	4	11.11	2275150	20.0
4H-Cyclopenta[def...	11.72	14.0	ng	1592290	4	11.11	2275150	20.0
1H-Cyclopropa[l]p...	11.74	5.7	ng	652911	4	11.11	2275150	20.0
1,2,4,8-Tetrameth...	11.91	3.5	ng	394837	4	11.11	2275150	20.0
di-p-Tolylacetylene	12.08	3.6	ng	406252	4	11.11	2275150	20.0
9,10-Dimethylanth...	12.16	11.9	ng	1358190	4	11.11	2275150	20.0
unknown12.19	12.19	6.8	ng	772954	4	11.11	2275150	20.0
Cyclopenta(def)ph...	12.24	8.3	ng	942638	4	11.11	2275150	20.0
Pyrene, 2-methyl-	12.76	3.7	ng	1434360	5	13.74	7682550	20.0
11H-Benzo[a]fluorene	12.87	4.1	ng	1583730	5	13.74	7682550	20.0
Pyrene, 1-methyl-	12.97	3.9	ng	1506410	5	13.74	7682550	20.0
Benzo[b]naphtho[2...	13.48	4.1	ng	1590800	5	13.74	7682550	20.0
Benz[a]anthracene...	14.12	3.5	ng	1337450	5	13.74	7682550	20.0
Octadecane	14.53	8.3	ng	484246	6	15.11	1170130	20.0
Benzo[e]pyrene	14.82	23.4	ng	1369710	6	15.11	1170130	20.0