LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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-BF040319.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	5.293	542	545	572	rBV	786713	1126351	51.08%	3.738%
2	6.334	718	722	739	rBV	873039	1212357	54.98%	4.024%
3	6.451	739	742	751	rVV	1259782	1189247	53.93%	3.947%
4	6.675	777	780	792	rBV	736182	721006	32.70%	2.393%
5	6.834	803	807	820	rBV	1021797	926767	42.03%	3.076%
6	7.245	873	877	894	rBV	541050	695984	31.56%	2.310%
7	7.963	995	999	1019	rBV	758936	893549	40.52%	2.966%
8	9.034	1177	1181	1192	rBV	1329381	1233445	55.94%	4.094%
9	9.434	1245	1249	1257	rVB	82546	99401	4.51%	0.330%
10	9.569	1269	1272	1279	rBV	114524	122382	5.55%	0.406%
11	9.710	1292	1296	1300	rBV	888074	814279	36.93%	2.703%
12	9.739	1300	1301	1309	rVB	49803	45470	2.06%	0.151%
13	9.916	1327	1331	1336	rBV4	15087	28835	1.31%	0.096%
14	9.957	1336	1338	1344	rVB3	16308	22486	1.02%	0.075%
15	10.257	1386	1389	1395	rVB2	29908	44494	2.02%	0.148%
16	10.498	1427	1430	1443	rVV	606466	667816	30.29%	2.216%
17	10.616	1447	1450	1457	rVB3	39913	64644	2.93%	0.215%
18	10.804	1478	1482	1485	rBV3	24648	31928	1.45%	0.106%
19	11.092	1528	1531	1536	rVB	40862	42242	1.92%	0.140%
20	11.192	1544	1548	1550	rBV	927535	845933	38.36%	2.808%
21	11.216	1550	1552	1558	rVV	454928	410954	18.64%	1.364%
22	11.269	1558	1561	1565	rVB	193233	175788	7.97%	0.583%
23	11.433	1585	1589	1594	rBV3	30409	59177	2.68%	0.196%
24	11.486	1595	1598	1600	rVB	53839	44571	2.02%	0.148%
25	11.522	1600	1604	1611	rVB2	20523	34158	1.55%	0.113%
26	11.586	1612	1615	1618	rBV	116159	96446	4.37%	0.320%
27	11.663	1623	1628	1630	rBV5	16945	32174	1.46%	0.107%
28	11.692	1630	1633	1636	rVV	116395	104160	4.72%	0.346%
29	11.722	1636	1638	1644	rVV	249991	277604	12.59%	0.921%
30	11.769	1644	1646	1649	rVV	75776	76632	3.48%	0.254%
31	11.804	1649	1652	1654	rVV	251853	249037	11.29%	0.827%
32	11.827	1654	1656	1661	rVB	90754	83949	3.81%	0.279%
33	11.892	1665	1667	1670	rVB	33325	29716	1.35%	0.099%
34	11.986	1680	1683	1687	rBV	75718	77861	3.53%	0.258%

LSC Area Percent Report

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Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.027	1687	1690	1693	rVB3	42373	38549	1.75%	0.128%
36	12.133	1706	1708	1711	rVB	36064	28080	1.27%	0.093%
37	12.169	1711	1714	1716	rBV	45303	39453	1.79%	0.131%
38	12.192	1716	1718	1721	rVB2	37861	33557	1.52%	0.111%
39	12.239	1723	1726	1728	rBV	132129	124433	5.64%	0.413%
40	12.269	1728	1731	1732	rVV	319369	278521	12.63%	0.924%
41	12.286	1732	1734	1739	rVV3	409263	460446	20.88%	1.528%
42	12.333	1739	1742	1745	rVB2	102337	109690	4.97%	0.364%
43	12.404	1750	1754	1757	rBV	2192979	1863200	84.50%	6.184%
44	12.469	1763	1765	1767	rVB2	38952	32044	1.45%	0.106%
45	12.498	1767	1770	1776	rBV	74391	112573	5.11%	0.374%
46	12.551	1776	1779	1782	rBV	86676	82340	3.73%	0.273%
47	12.633	1787	1793	1799	rBV	1954067	2205037	100.00%	7.318%
48	12.686	1799	1802	1806	rVB2	80271	102147	4.63%	0.339%
49	12.769	1810	1816	1819	rBV	1399565	1315123	59.64%	4.365%
50	12.851	1825	1830	1834	rBV2	147856	255651	11.59%	0.848%
51	12.933	1841	1844	1845	rBV	132179	122832	5.57%	0.408%
52	12.957	1846	1848	1852	rVB	268576	259481	11.77%	0.861%
53	13.004	1854	1856	1857	rBV	68191	51611	2.34%	0.171%
54	13.022	1857	1859	1862	rVB	166759	150688	6.83%	0.500%
55	13.063	1862	1866	1870	rBV2	200318	238249	10.80%	0.791%
56	13.157	1879	1882	1884	rVB	122400	107849	4.89%	0.358%
57	13.186	1884	1887	1890	rBV	128546	125123	5.67%	0.415%
58	13.345	1912	1914	1919	rVB3	58595	51539	2.34%	0.171%
59	13.474	1933	1936	1942	rVB	162392	159721	7.24%	0.530%
60	13.580	1950	1954	1956	rBV2	198813	236600	10.73%	0.785%
61	13.598	1956	1957	1960	rVV	159233	117877	5.35%	0.391%
62	13.627	1960	1962	1964	rVV	158809	143277	6.50%	0.476%
63	13.680	1968	1971	1974	rVB2	136919	164580	7.46%	0.546%
64	13.821	1990	1995	1998	rBV2	1368539	2036315	92.35%	6.758%
65	13.851	1998	2000	2004	rVB	951684	886073	40.18%	2.941%
66	13.933	2011	2014	2017	rVB	204338	174545	7.92%	0.579%
67	13.986	2020	2023	2028	rVV4	177344	190355	8.63%	0.632%
68	14.180	2053	2056	2057	rBV	59233	63196	2.87%	0.210%
69	14.216	2060	2062	2064	rVV	176691	143443	6.51%	0.476%
70	14.245	2065	2067	2070	rVV	83016	80744	3.66%	0.268%
71	14.292	2072	2075	2077	rVV2	168431	150994	6.85%	0.501%

LSC Area Percent Report

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Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.339	2081	2083	2085	rBV2	89409	85053	3.86%	0.282%
73	14.586	2122	2125	2128	rBV2	140760	137488	6.24%	0.456%
74	14.698	2141	2144	2146	rBV	95345	103335	4.69%	0.343%
75	14.845	2164	2169	2175	rBV	741498	1360482	61.70%	4.515%
76	14.892	2175	2177	2182	rVV3	154722	180942	8.21%	0.601%
77	14.945	2183	2186	2190	rVB	135551	145925	6.62%	0.484%
78	15.121	2212	2216	2222	rVB	430834	500405	22.69%	1.661%
79	15.180	2222	2226	2232	rBV	625802	703270	31.89%	2.334%
80	15.239	2232	2236	2239	rBV	526663	646123	29.30%	2.144%
81	16.604	2463	2468	2475	rVB	294733	567213	25.72%	1.883%
82	17.009	2533	2537	2545	rVB	196904	382756	17.36%	1.270%

Sum of corrected areas: 30129771

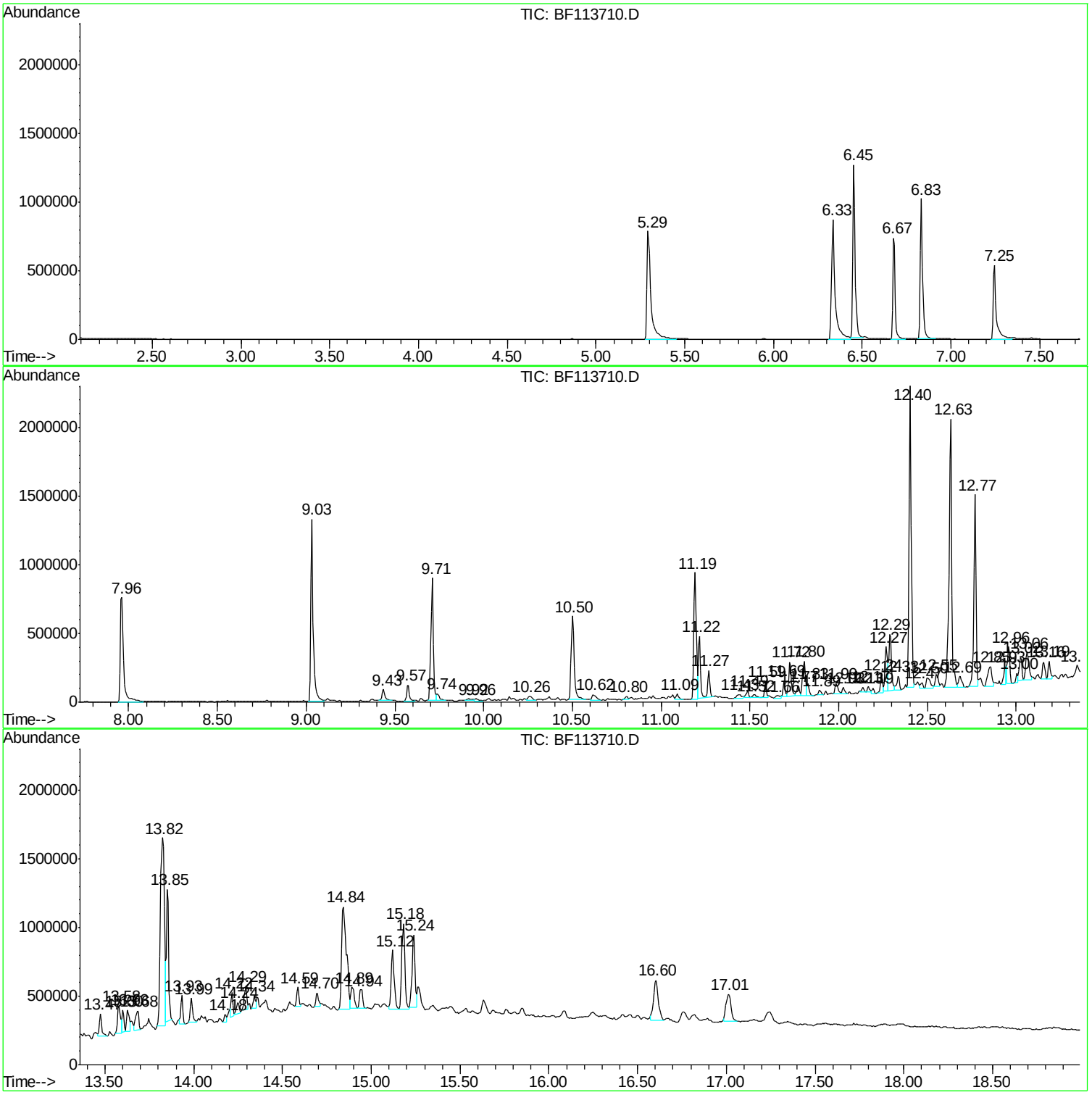
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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\BF041019\
Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

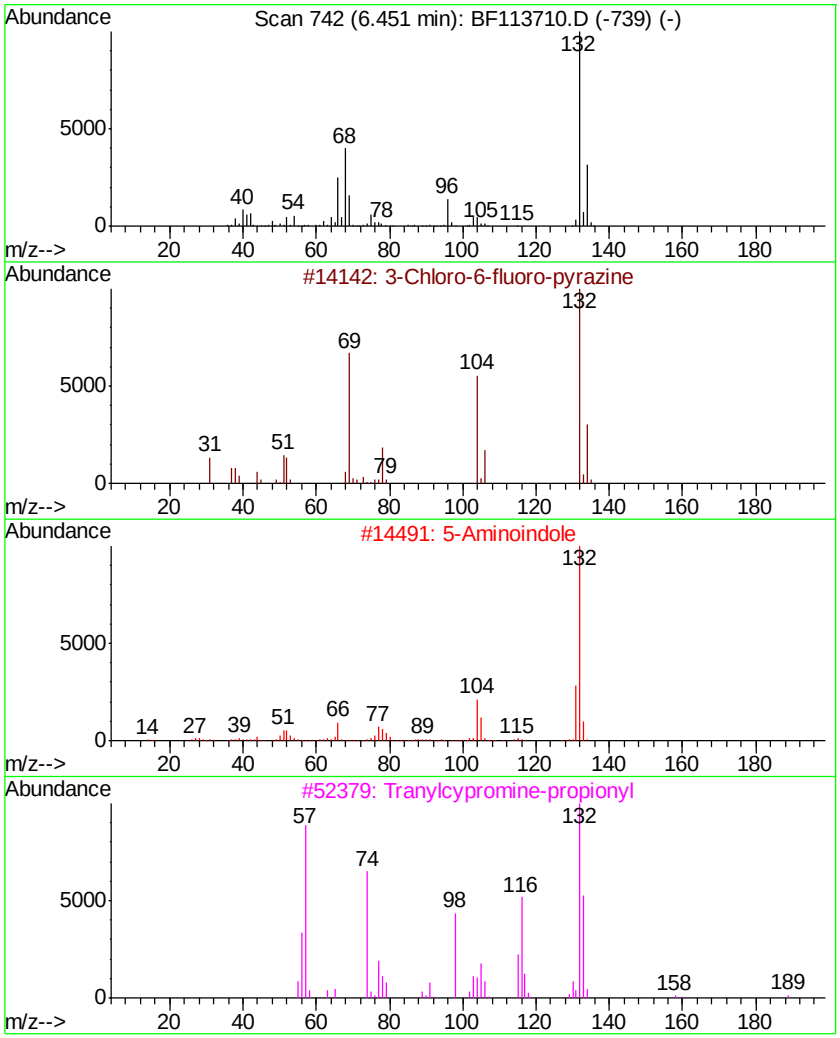
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

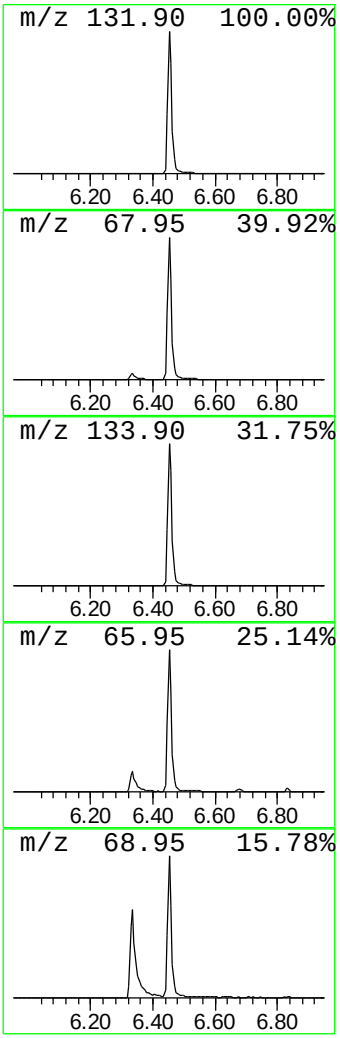
****

Peak Number 1 unknown6.45 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.45	32.99 ng	1189250	1,4-Dichlorobenzene-d4	6.67

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5	Xenon	132	Xe	007440-63-3	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

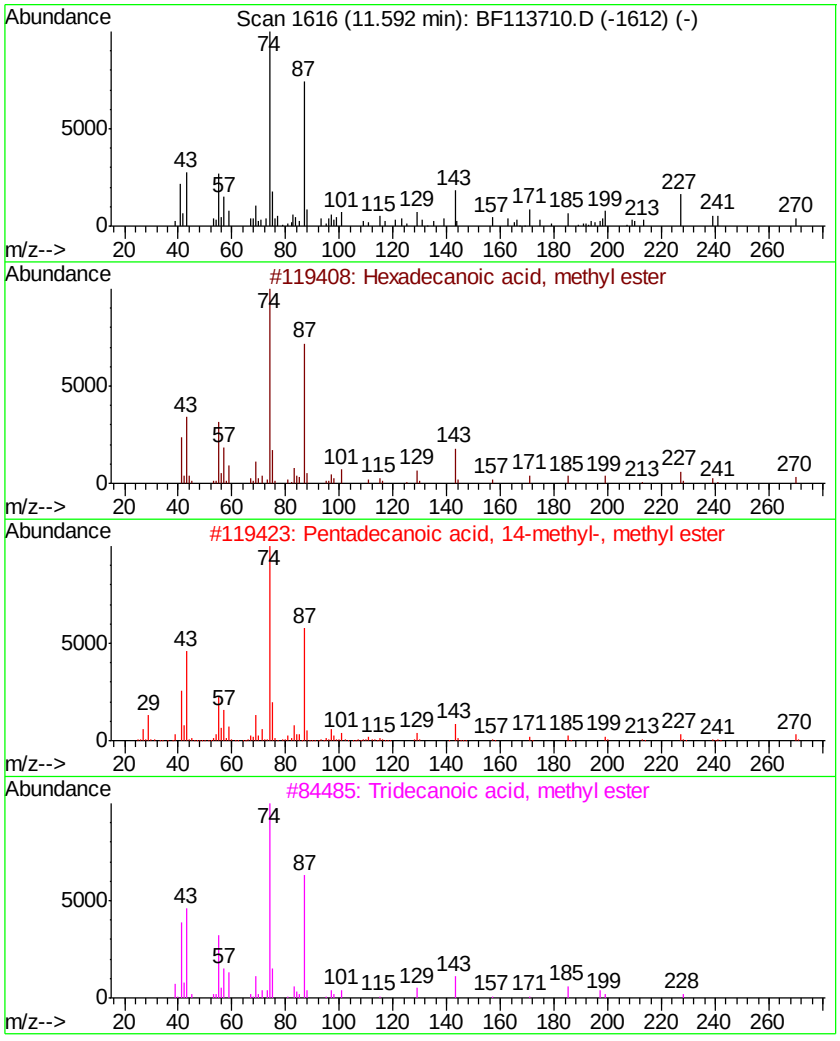
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

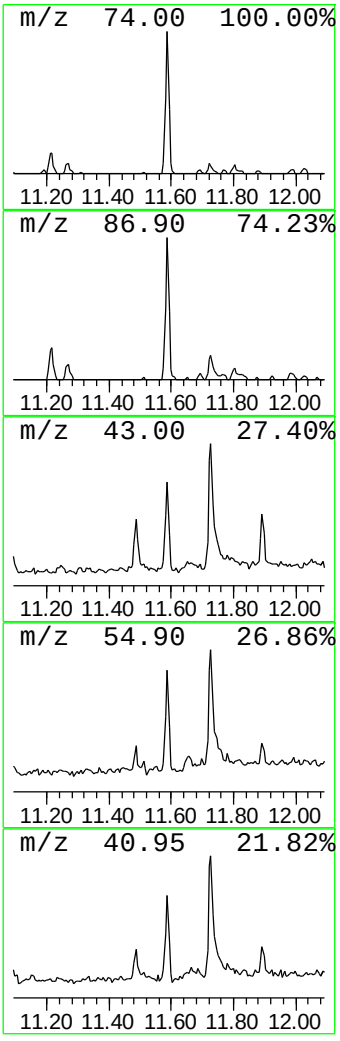
****

Peak Number 3 Hexadecanoic acid, methyl e... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.59	2.28 ng	96446	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	98
2	Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	96
3	Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	93
4	Heptadecanoic acid, methyl ester	284	C18H36O2	001731-92-6	83
5	Methyl stearate	298	C19H38O2	000112-61-8	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
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Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

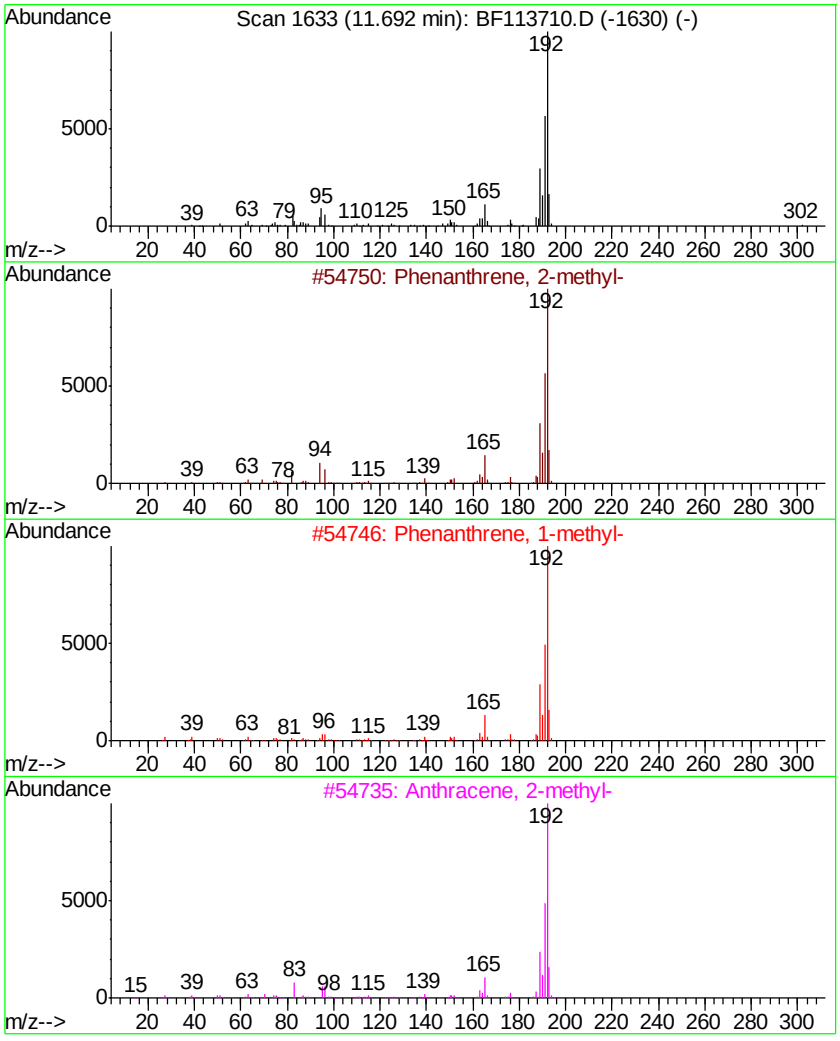
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

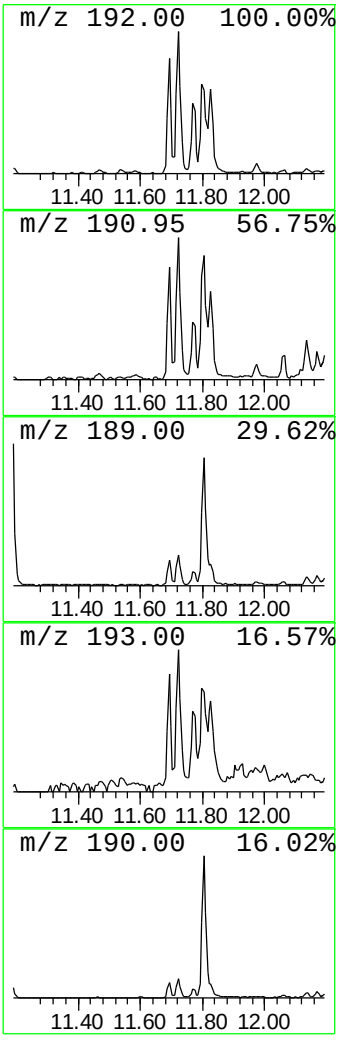
****

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	2.46 ng	104160	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
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Acq On : 10 Apr 2019 21:50
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ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

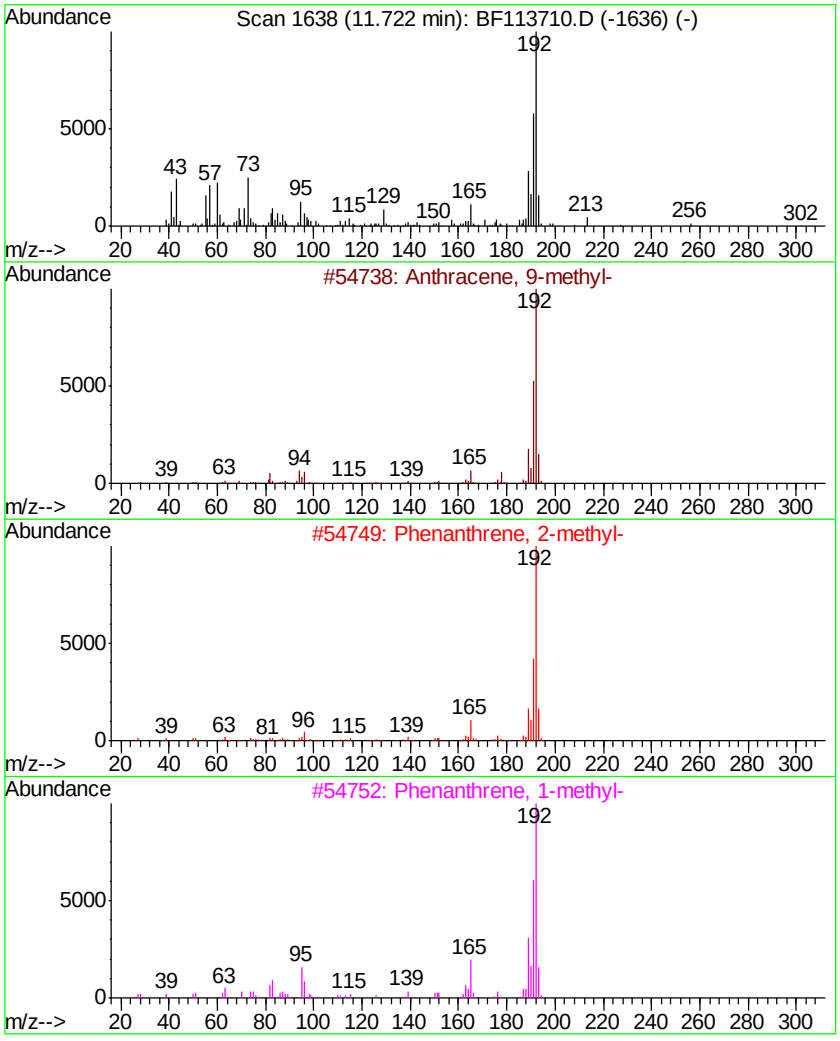
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

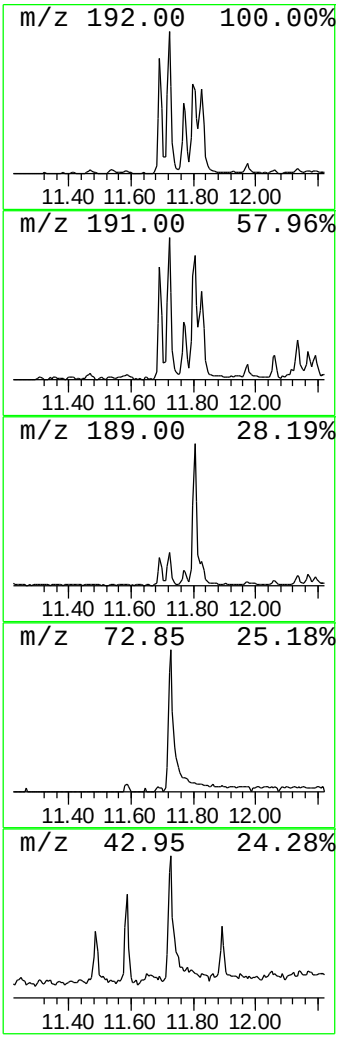
****

Peak Number 5 Anthracene, 9-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	6.56 ng	277604	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	92
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92





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Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

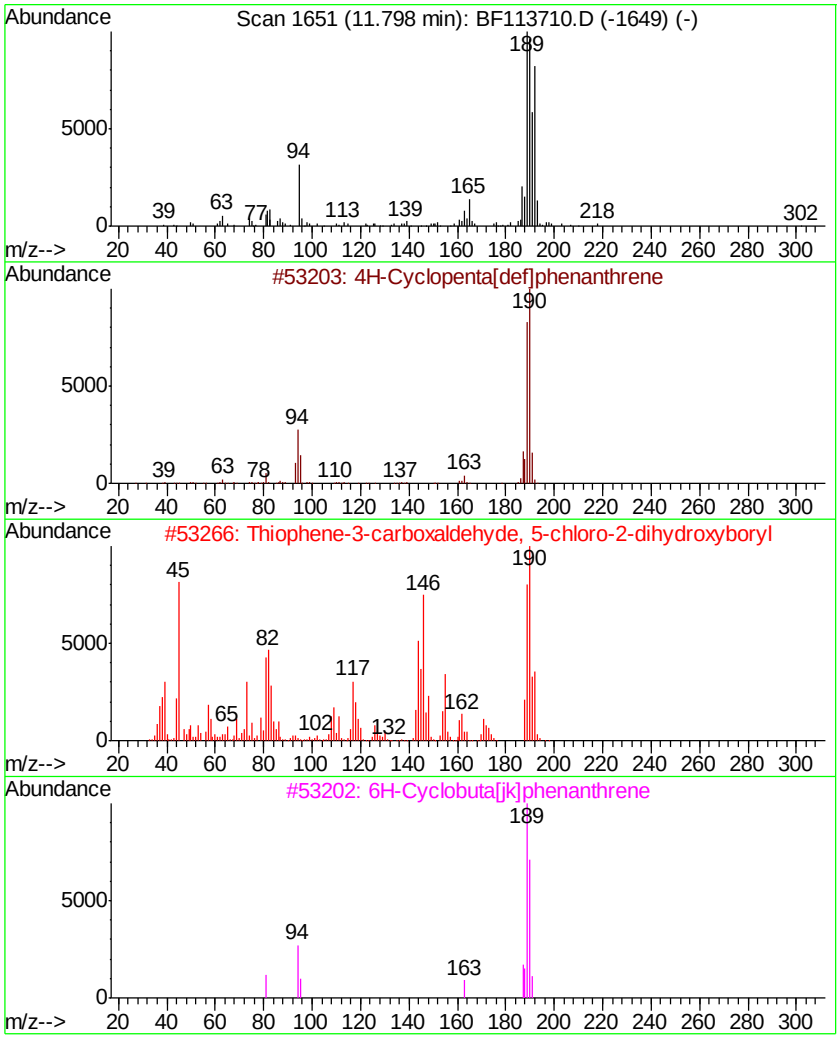
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

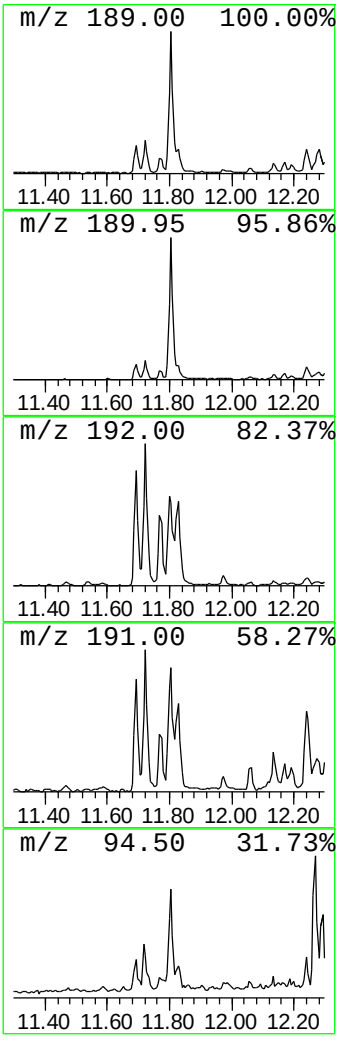
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	5.89 ng	249037	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	37
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

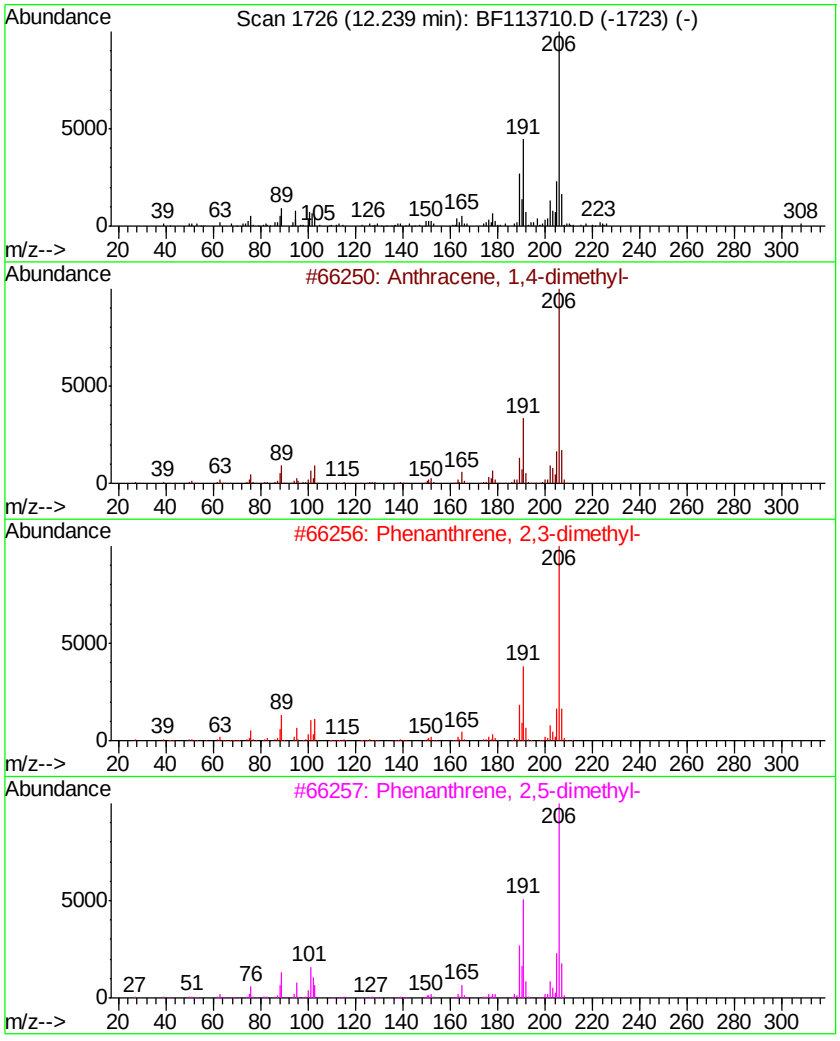
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

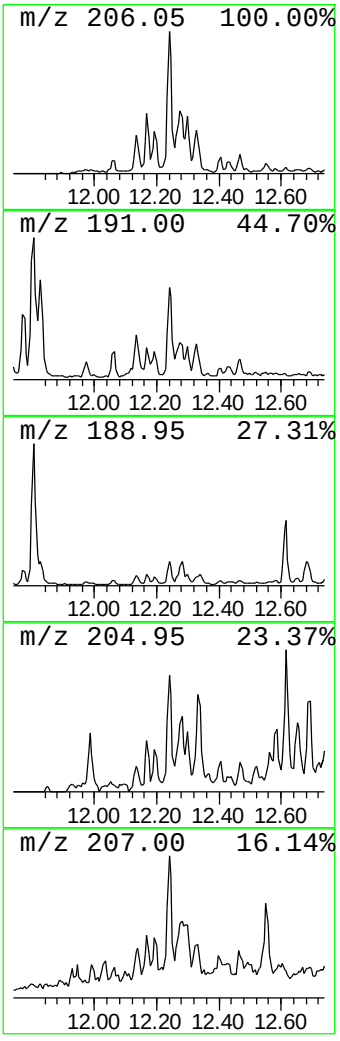
****

Peak Number 7 Anthracene, 1,4-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	2.94 ng	124433	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	91





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Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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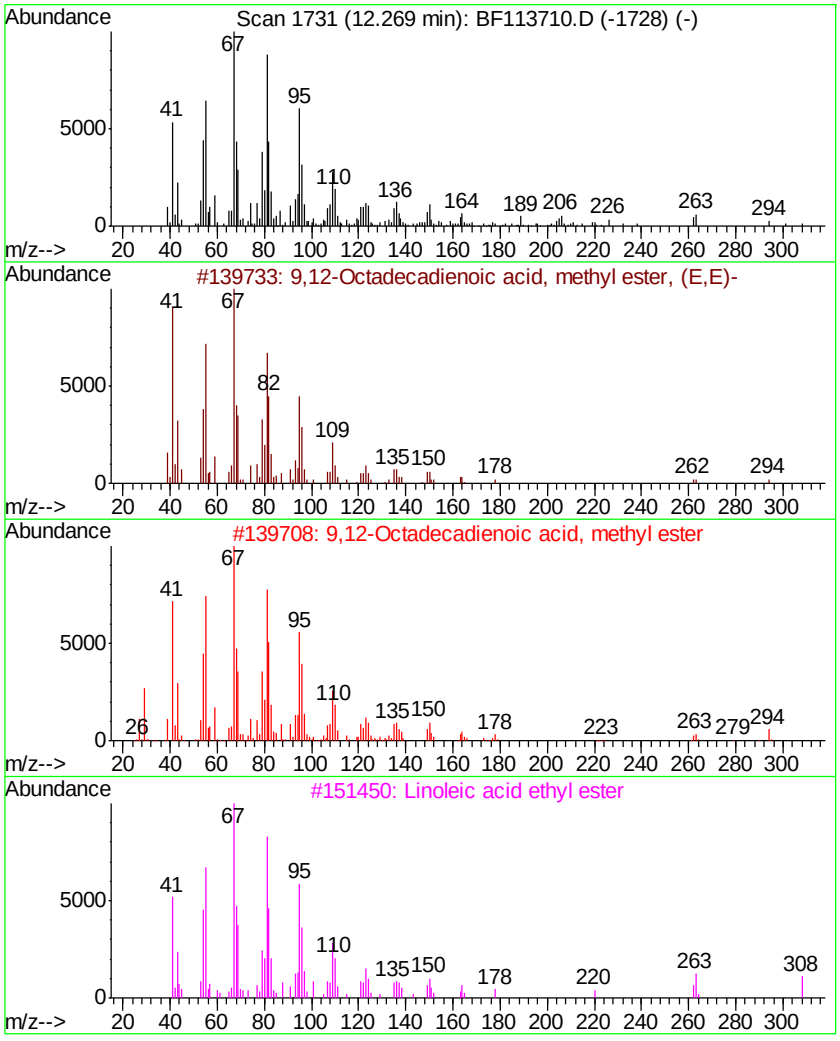
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

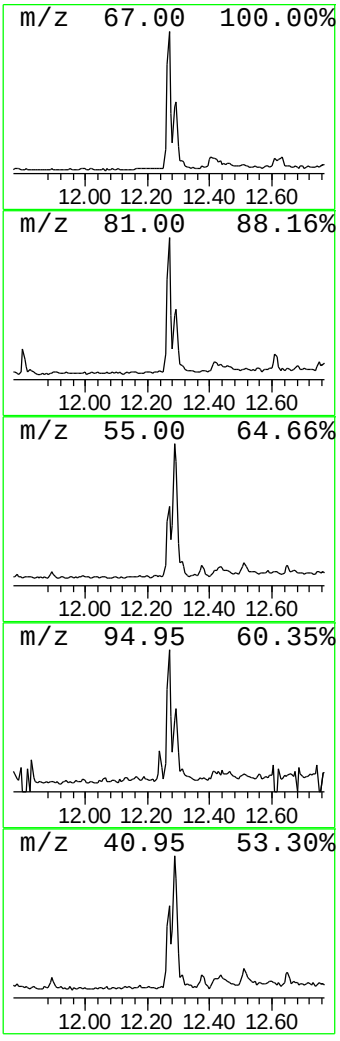
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 9,12-Octadecadienoic acid, ... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.27	6.58 ng	278521	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99
3	Linoleic acid ethyl ester	308	C20H36O2	000544-35-4	99
4	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	98
5	8,11-Octadecadienoic acid, methy...	294	C19H34O2	056599-58-7	98





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Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

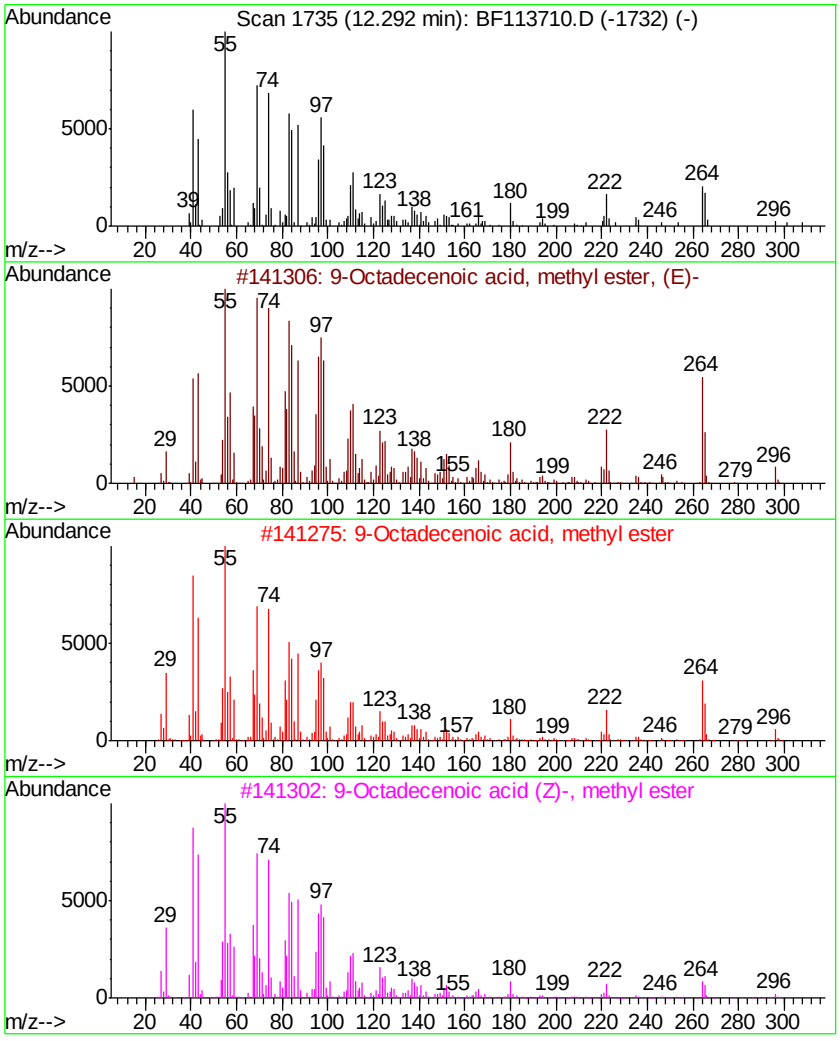
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

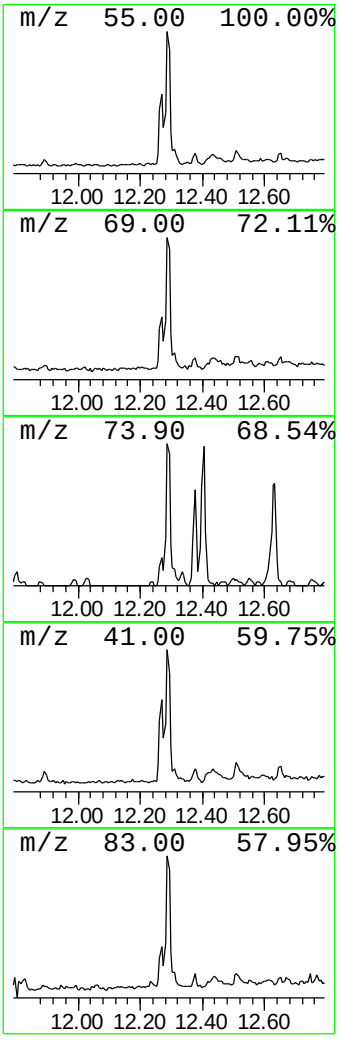
****

Peak Number 9 9-Octadecenoic acid, methyl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	10.89 ng	460446	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenoic acid, methyl este...	296	C19H36O2	001937-62-8	91
2	9-Octadecenoic acid, methyl ester	296	C19H36O2	002462-84-2	90
3	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	90
4	16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	90
5	8-Octadecenoic acid, methyl este...	296	C19H36O2	026528-50-7	90





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Sample : K2203-07 2X
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ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

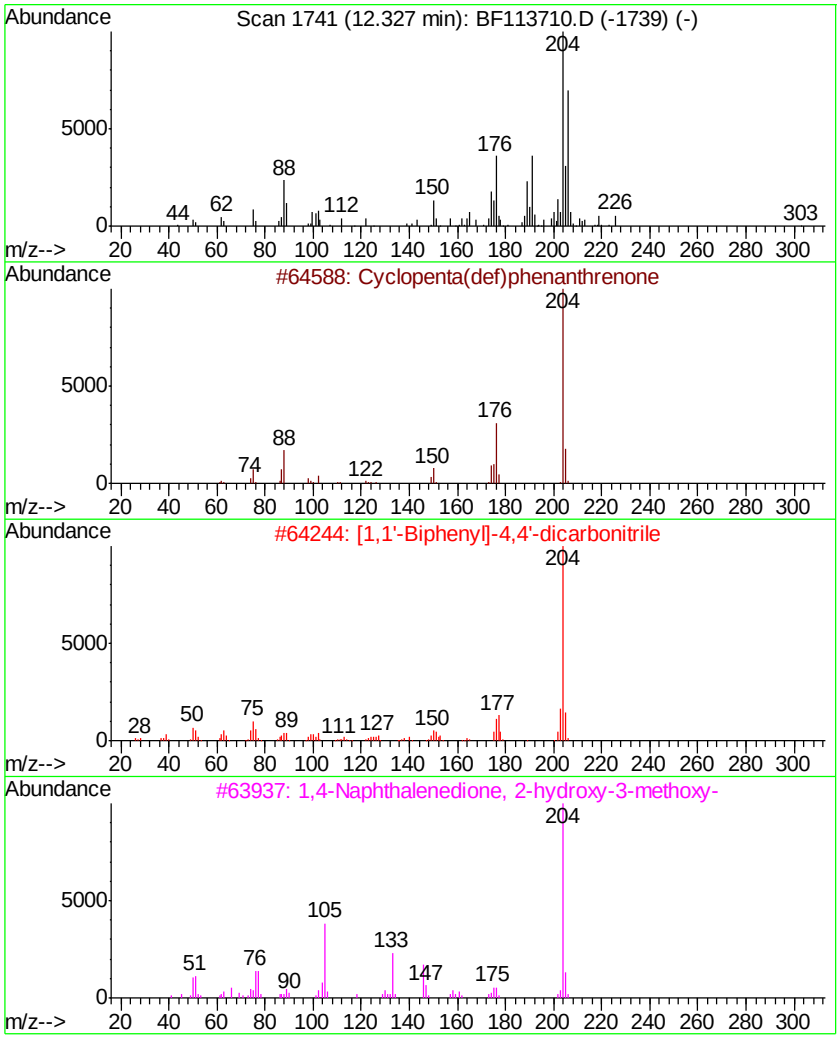
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

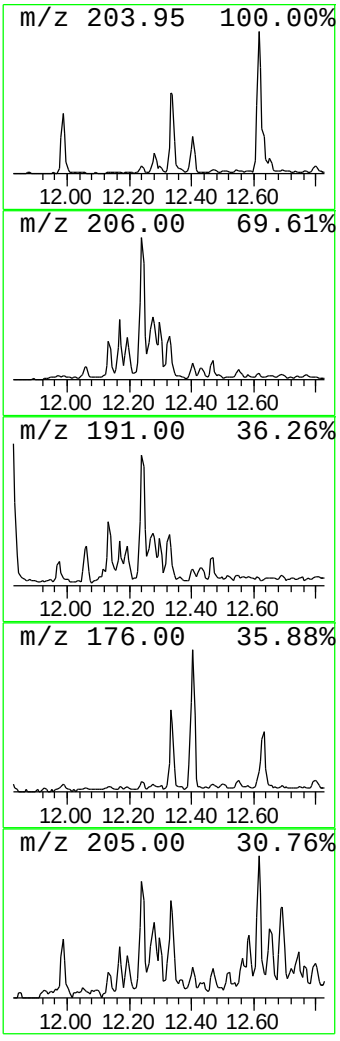
****

Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.33	2.59 ng	109690	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	93
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
3	1,4-Naphthalenedione, 2-hydroxy-...	204	C11H8O4	005257-83-0	50
4	1-[3-(3,3-Dimethyl-but-1-ynyl)-2...	219	C15H25N	1000275-17-2	50
5	4-Methoxy-6-(3-fluorophenyl)pyri...	204	C11H9FN2O	076128-74-0	50





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Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

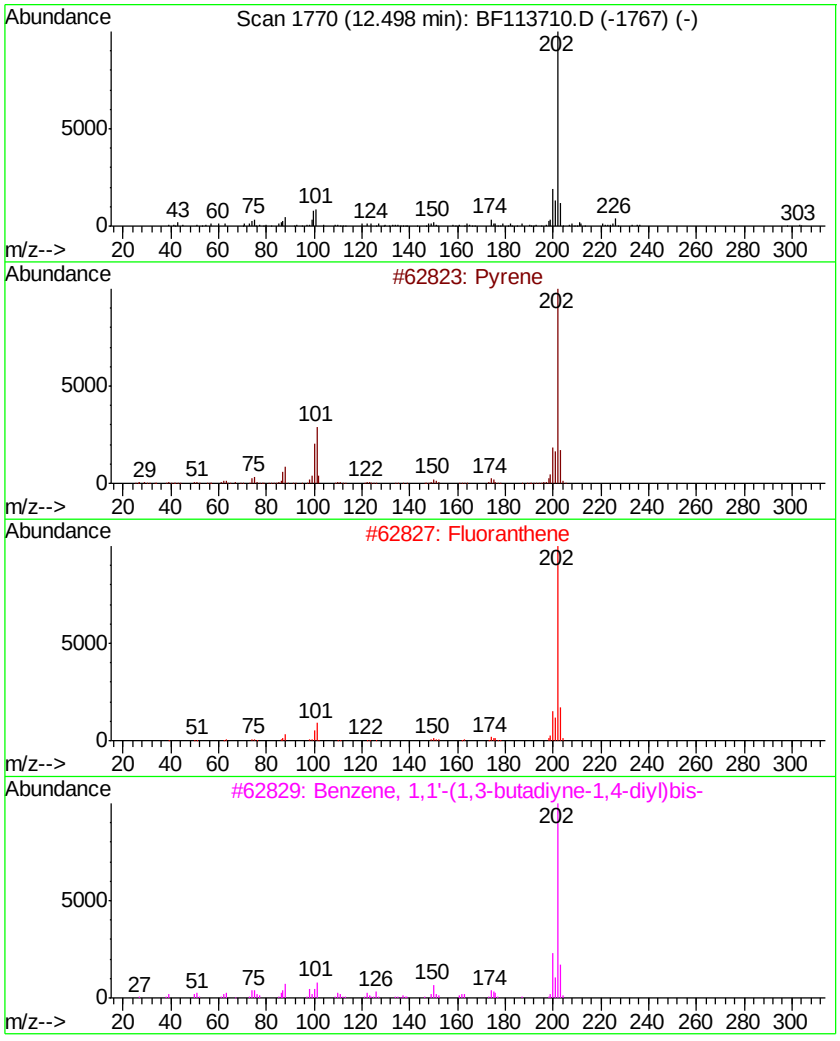
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

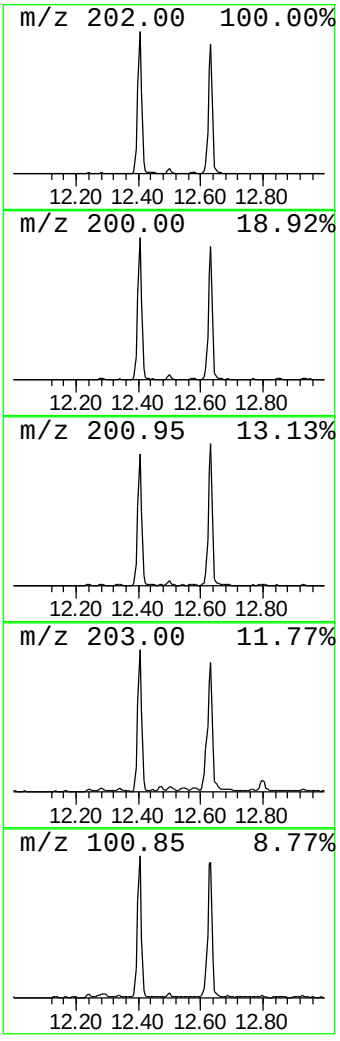
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 11 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	2.66 ng	112573	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene	202	C16H10	000129-00-0	83
2	Fluoranthene	202	C16H10	000206-44-0	68
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	50
4	4-Methoxy-naphthalene-1-carboxyl...	202	C12H10O3	1000317-85-4	50
5	2,3-Dichlorobenzo[b]thiophene	202	C8H4Cl2S	1000298-87-9	42





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Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

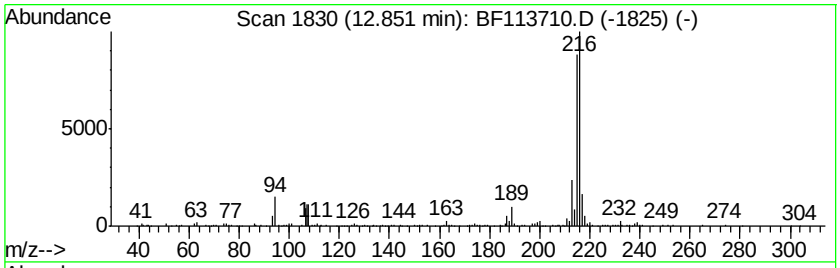
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

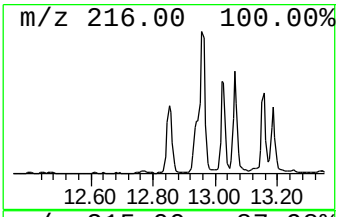
****

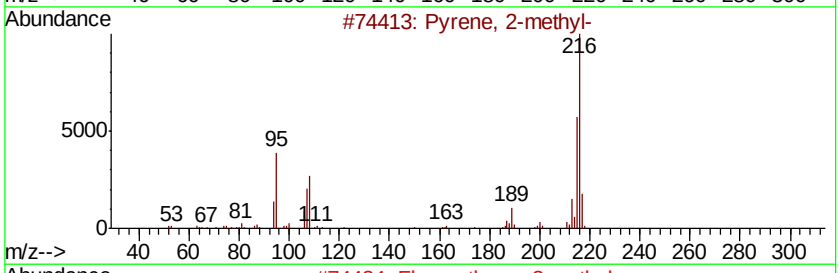
Peak Number 12 Pyrene, 2-methyl- Concentration Rank 15

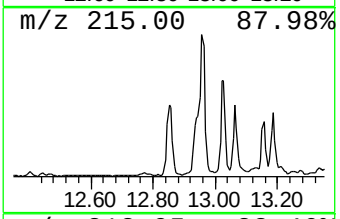
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.85	2.51 ng	255651	Chrysene-d12	13.83

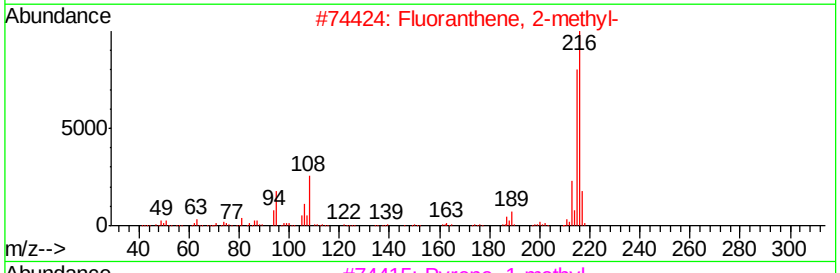
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	86
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	83

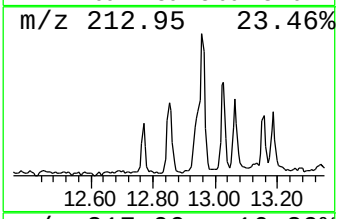


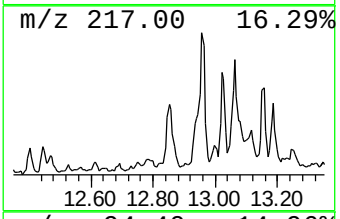


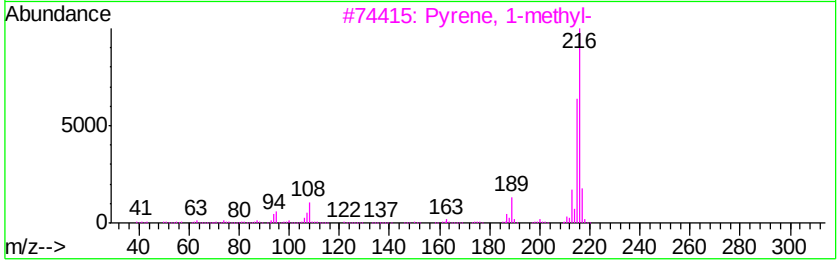


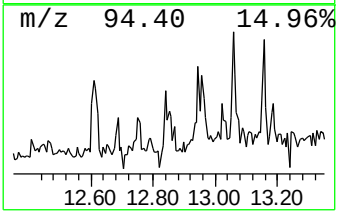












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Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

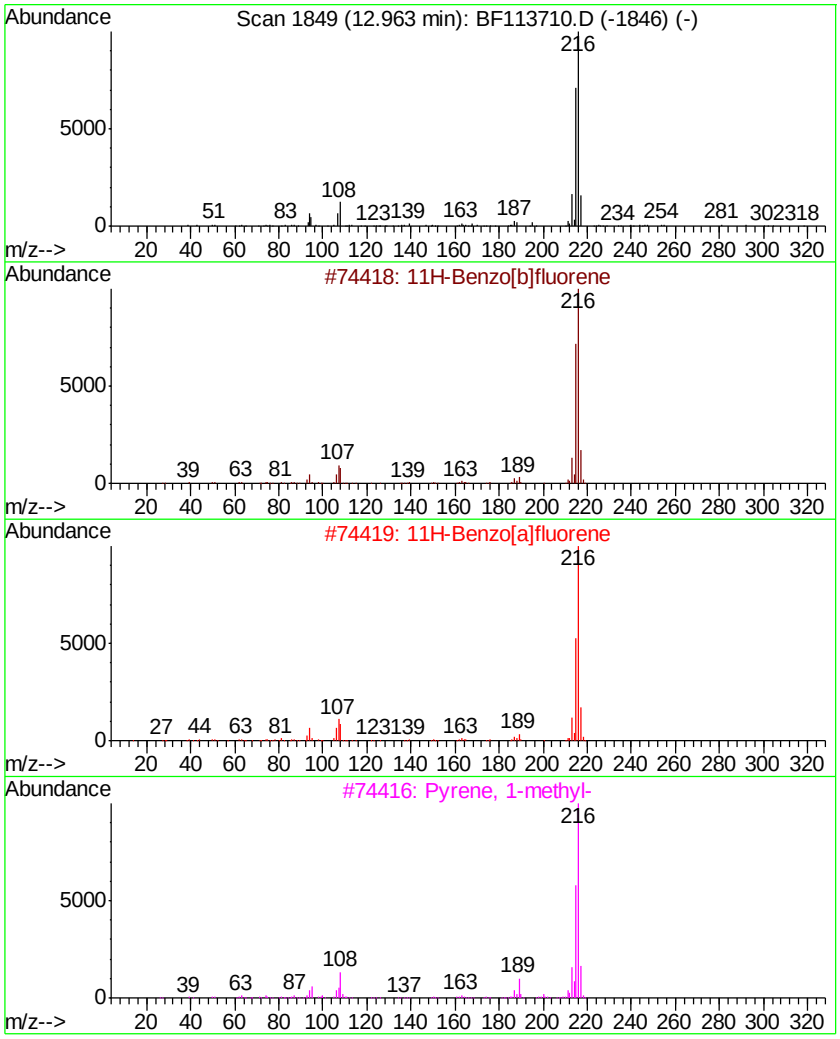
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

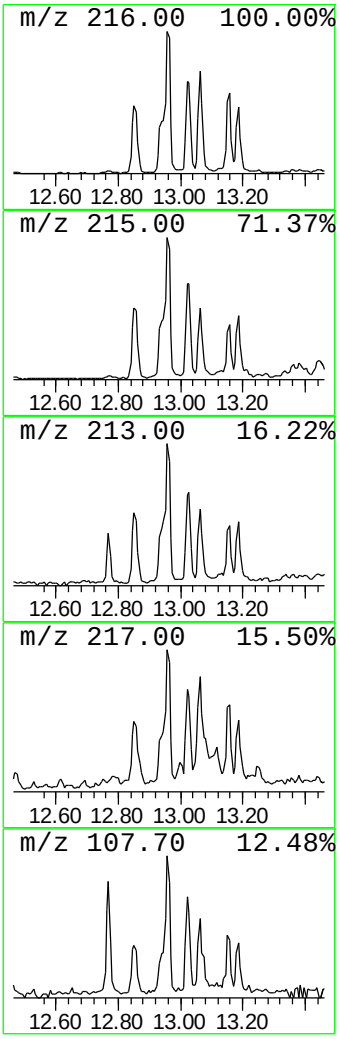
****

Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	2.55 ng	259481	Chrysene-d12	13.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
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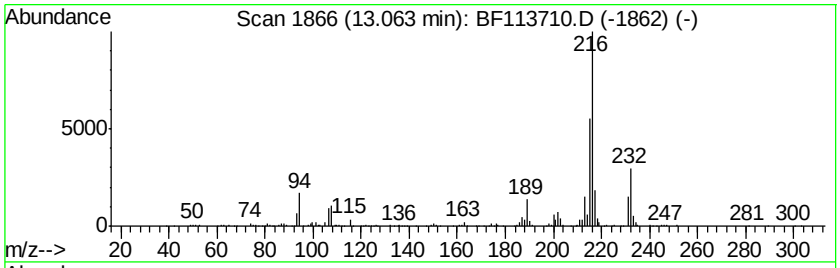
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

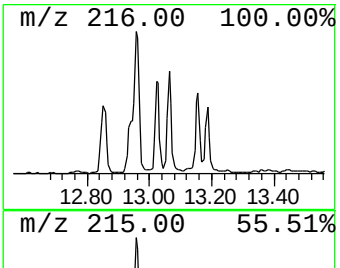
****

Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.06	2.34 ng	238249	Chrysene-d12	13.83

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	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	70





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Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

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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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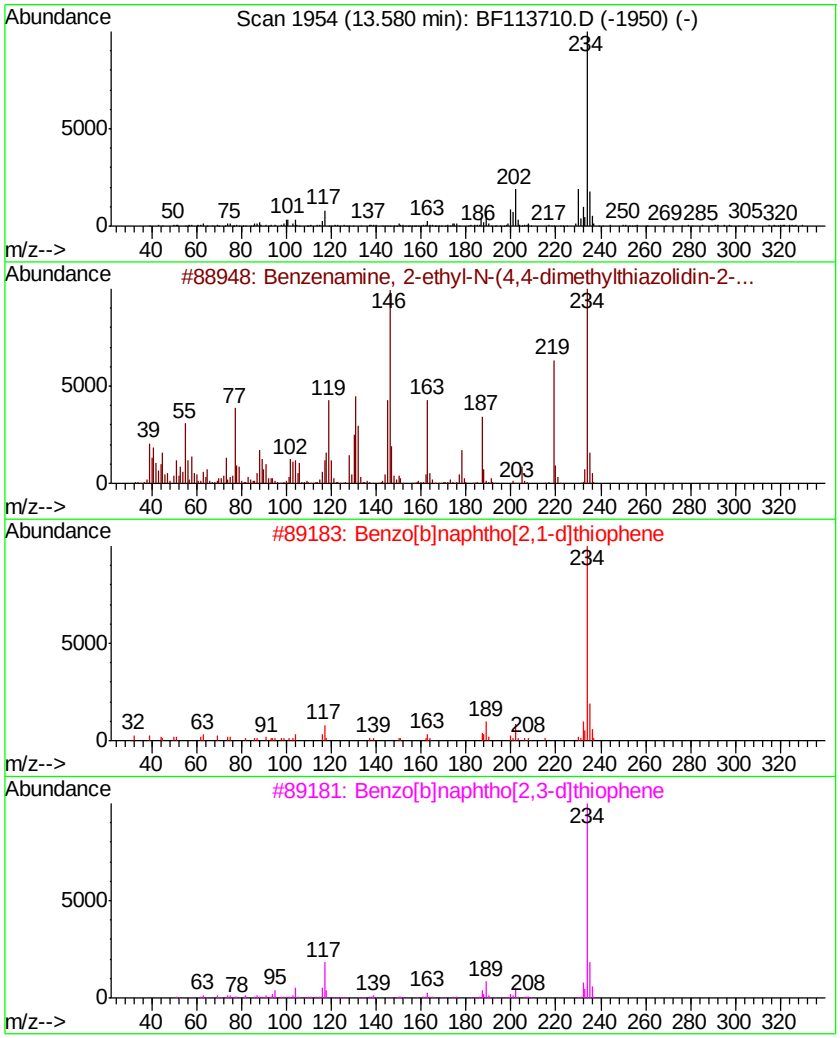
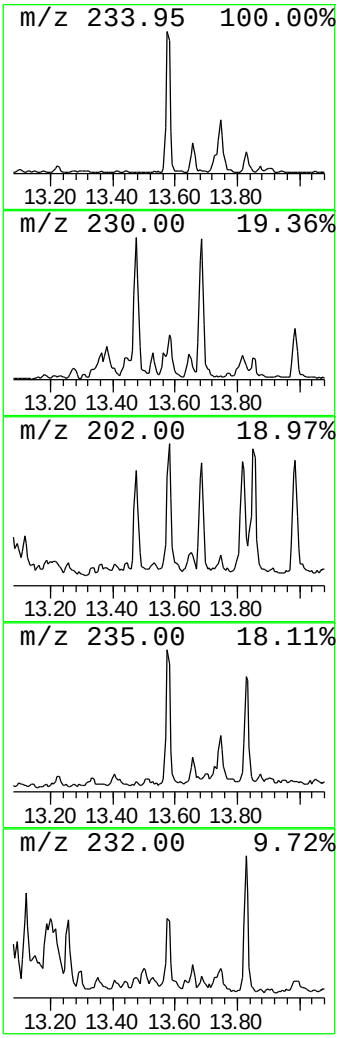
Peak Number 15 Benzenamine, 2-ethyl-N-(4,4... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	2.32 ng	236600	Chrysene-d12	13.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 2-ethyl-N-(4,4-dime...	234	C13H18N2S	1000272-26-2	91
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	81
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
4	Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	58
5	2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	52





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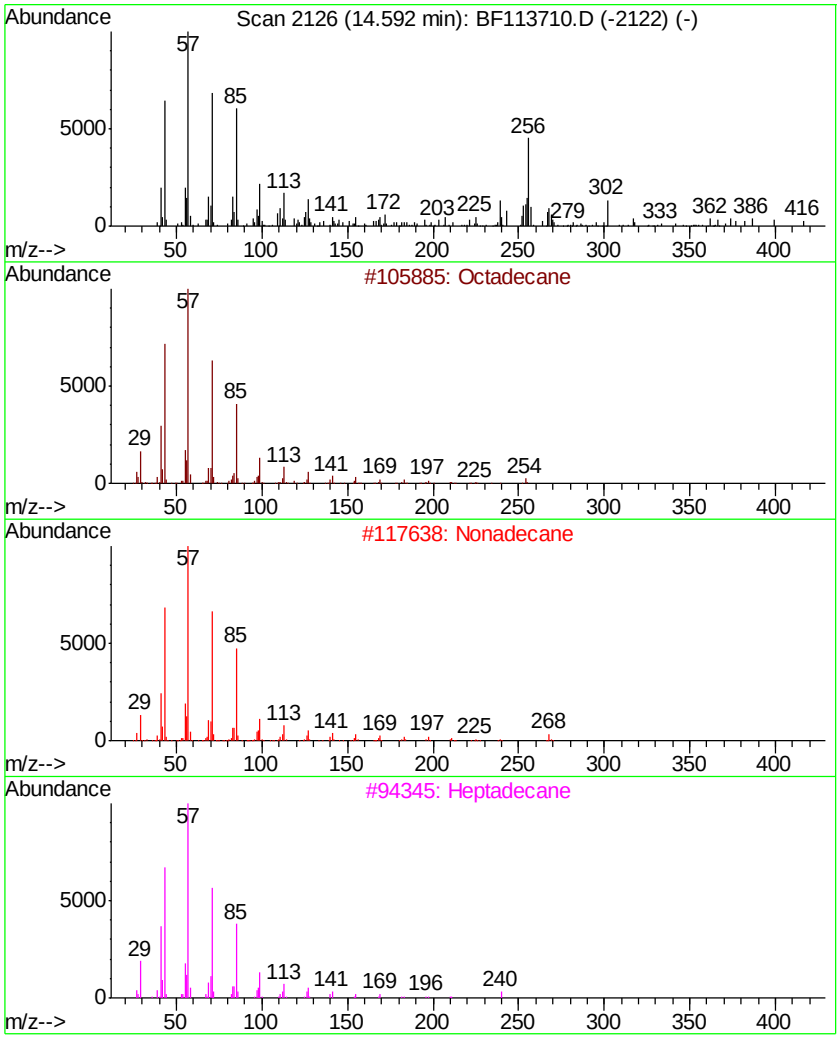
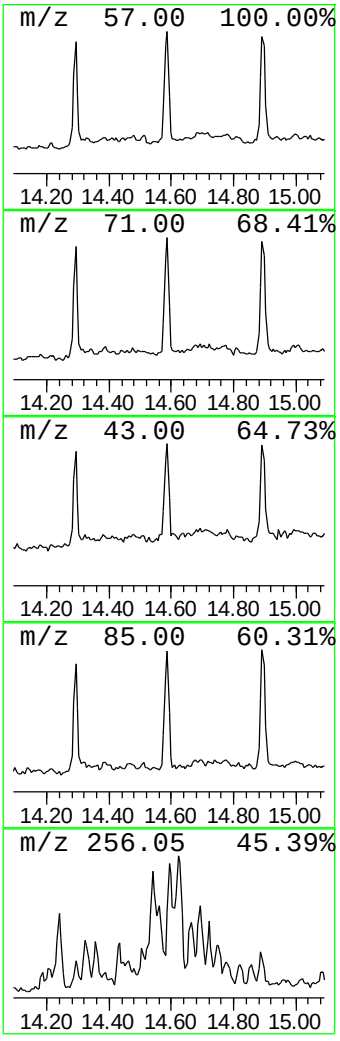
Peak Number 16 Octadecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.59	4.26 ng	137488	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	94
2	Nonadecane	268	C19H40	000629-92-5	91
3	Heptadecane	240	C17H36	000629-78-7	90
4	2-methyloctacosane	408	C29H60	1000376-72-8	87
5	Heptacosane	380	C27H56	000593-49-7	87





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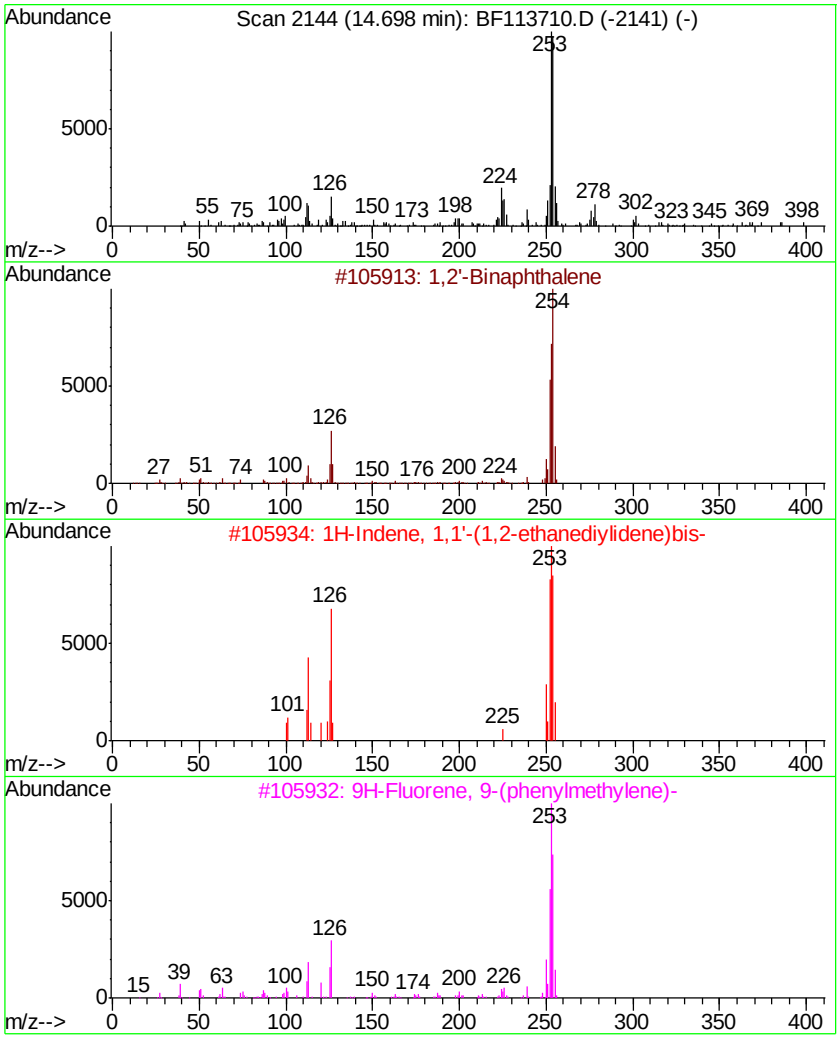
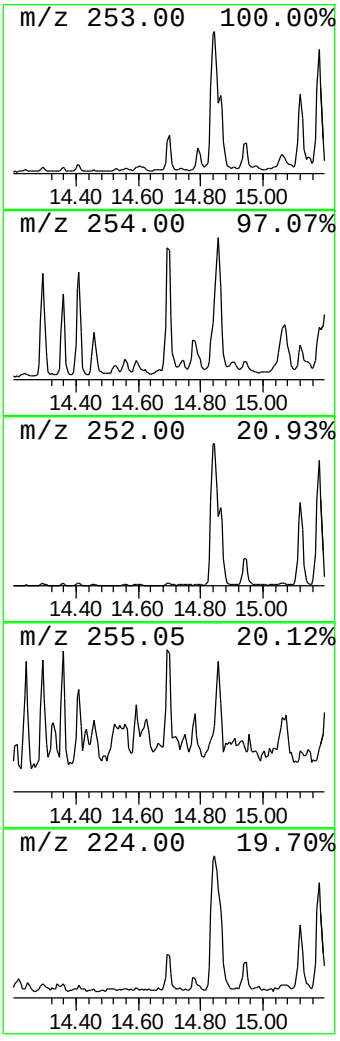
Peak Number 17 1,2'-Binaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.70	3.20 ng	103335	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2'-Binaphthalene	254	C20H14	004325-74-0	68
2	1H-Indene, 1,1'-(1,2-ethanediyli...	254	C20H14	072088-04-1	68
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	68
4	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	64
5	1,1'-Binaphthalene	254	C20H14	000604-53-5	59





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF041019\
Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

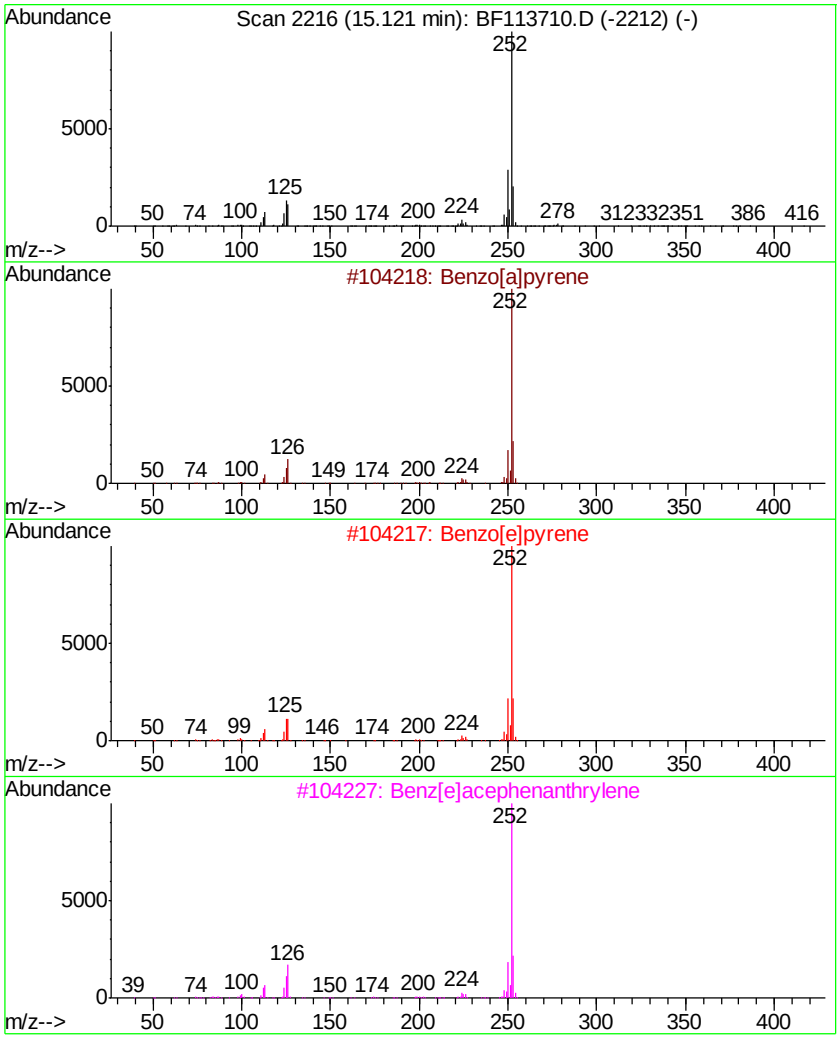
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

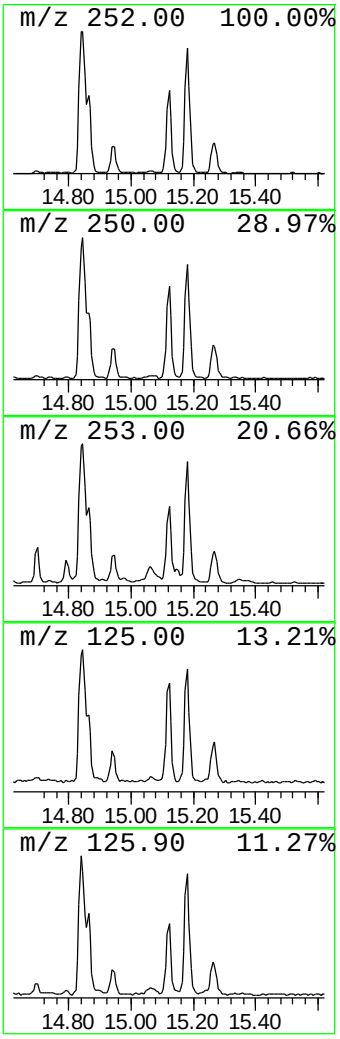
****

Peak Number 19 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.12	15.49 ng	500405	Perylene-d12	15.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[a]pyrene	252	C20H12	000050-32-8	98
2	Benzo[e]pyrene	252	C20H12	000192-97-2	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Perylene	252	C20H12	000198-55-0	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041019\
Data File : BF113710.D
Acq On : 10 Apr 2019 21:50
Operator : JU/SJ
Sample : K2203-07 2X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SU-04-040919-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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
unknown6.45	6.45	33.0	ng	1189250	1	6.67	721006	20.0
Hexadecanoic acid...	11.59	2.3	ng	96446	4	11.19	845933	20.0
Phenanthrene, 2-m...	11.69	2.5	ng	104160	4	11.19	845933	20.0
Anthracene, 9-met...	11.72	6.6	ng	277604	4	11.19	845933	20.0
4H-Cyclopenta[def...	11.80	5.9	ng	249037	4	11.19	845933	20.0
Anthracene, 1,4-d...	12.24	2.9	ng	124433	4	11.19	845933	20.0
9,12-Octadecadien...	12.27	6.6	ng	278521	4	11.19	845933	20.0
9-Octadecenoic ac...	12.29	10.9	ng	460446	4	11.19	845933	20.0
Cyclopenta(def)ph...	12.33	2.6	ng	109690	4	11.19	845933	20.0
Benzene, 1,1'-(1,...	12.50	2.7	ng	112573	4	11.19	845933	20.0
Pyrene, 2-methyl-	12.85	2.5	ng	255651	5	13.83	2036320	20.0
11H-Benzo[b]fluorene	12.96	2.5	ng	259481	5	13.83	2036320	20.0
Fluoranthene, 2-m...	13.06	2.3	ng	238249	5	13.83	2036320	20.0
Benzenamine, 2-et...	13.58	2.3	ng	236600	5	13.83	2036320	20.0
Octadecane	14.59	4.3	ng	137488	6	15.24	646123	20.0
1,2'-Binaphthalene	14.70	3.2	ng	103335	6	15.24	646123	20.0
Perylene	15.12	15.5	ng	500405	6	15.24	646123	20.0