LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

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-BF073019.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	5.469	571	575	599	rBV	2258369	2359758	67.69%	4.609%
2	6.481	743	747	767	rBV	2235350	2540212	72.86%	4.962%
3	6.622	767	771	774	rBV	2872906	2524871	72.42%	4.932%
4	6.851	806	810	819	rBV	860442	746952	21.43%	1.459%
5	7.004	833	836	851	rVB	2132723	2010267	57.66%	3.927%
6	7.410	901	905	908	rBV	1782103	1545402	44.33%	3.019%
7	8.133	1024	1028	1045	rBV	969910	960268	27.54%	1.876%
8	9.210	1207	1211	1223	rBV	3207471	2862129	82.10%	5.591%
9	9.604	1275	1278	1287	rVB	395029	347112	9.96%	0.678%
10	9.892	1323	1327	1330	rBV	1336108	1140275	32.71%	2.227%
11	9.922	1330	1332	1341	rVB	187947	164068	4.71%	0.320%
12	10.098	1358	1362	1366	rBV2	53441	57234	1.64%	0.112%
13	10.439	1416	1420	1426	rBV2	130821	123694	3.55%	0.242%
14	10.598	1444	1447	1452	rVB	45282	50636	1.45%	0.099%
15	10.680	1457	1461	1472	rVV	1961811	1989729	57.07%	3.887%
16	10.804	1477	1482	1488	rVB6	38679	70561	2.02%	0.138%
17	10.986	1507	1513	1516	rBV3	51464	73623	2.11%	0.144%
18	11.016	1516	1518	1521	rVV2	47457	46907	1.35%	0.092%
19	11.116	1530	1535	1537	rBV3	47792	79568	2.28%	0.155%
20	11.139	1537	1539	1544	rVV2	43792	50164	1.44%	0.098%
21	11.186	1544	1547	1550	rVV2	54897	50992	1.46%	0.100%
22	11.239	1551	1556	1560	rVV5	58270	104355	2.99%	0.204%
23	11.274	1560	1562	1567	rVB	115815	110905	3.18%	0.217%
24	11.380	1576	1580	1582	rBV	1395666	1338047	38.38%	2.614%
25	11.404	1582	1584	1587	rVV	2048371	1558941	44.72%	3.045%
26	11.451	1587	1592	1596	rVV	520255	533291	15.30%	1.042%
27	11.492	1596	1599	1601	rVV2	68322	76979	2.21%	0.150%
28	11.539	1605	1607	1613	rVV4	26349	45250	1.30%	0.088%
29	11.610	1615	1619	1626	rVV2	141078	174534	5.01%	0.341%
30	11.668	1626	1629	1632	rVV	58132	59305	1.70%	0.116%
31	11.710	1633	1636	1641	rVB4	42617	54761	1.57%	0.107%
32	11.880	1661	1665	1667	rBV	250300	214913	6.16%	0.420%
33	11.910	1667	1670	1675	rVV	437454	447137	12.83%	0.873%
34	11.957	1675	1678	1681	rVV	150831	142325	4.08%	0.278%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.992	1681	1684	1687	rVV	447190	499840	14.34%	0.976%
36	12.015	1687	1688	1693	rVB	197165	120812	3.47%	0.236%
37	12.080	1697	1699	1703	rVB4	39373	41202	1.18%	0.080%
38	12.174	1712	1715	1718	rBV	207151	179221	5.14%	0.350%
39	12.204	1718	1720	1725	rVB	136774	126563	3.63%	0.247%
40	12.321	1738	1740	1744	rVB	60081	52107	1.49%	0.102%
41	12.357	1744	1746	1748	rVB	57993	39690	1.14%	0.078%
42	12.427	1755	1758	1761	rBV	163702	177756	5.10%	0.347%
43	12.468	1761	1765	1767	rVV2	103827	130170	3.73%	0.254%
44	12.515	1770	1773	1778	rBV2	103735	132408	3.80%	0.259%
45	12.598	1782	1787	1790	rBV	2845019	2559221	73.41%	4.999%
46	12.657	1795	1797	1800	rVB2	81131	64389	1.85%	0.126%
47	12.745	1809	1812	1815	rVB	72379	71661	2.06%	0.140%
48	12.827	1819	1826	1831	rBV2	2106955	2737441	78.52%	5.347%
49	12.868	1831	1833	1838	rVB2	125493	155687	4.47%	0.304%
50	12.962	1842	1849	1852	rBV	3376459	3486265	100.00%	6.810%
51	13.039	1857	1862	1866	rBV2	136543	246157	7.06%	0.481%
52	13.127	1873	1877	1878	rBV3	105518	112163	3.22%	0.219%
53	13.151	1878	1881	1884	rVB	391384	358389	10.28%	0.700%
54	13.186	1884	1887	1889	rBV3	44068	59082	1.69%	0.115%
55	13.215	1889	1892	1895	rVB	260626	204824	5.88%	0.400%
56	13.257	1895	1899	1901	rBV2	190131	225332	6.46%	0.440%
57	13.310	1906	1908	1911	rVB	58093	49111	1.41%	0.096%
58	13.345	1911	1914	1917	rBV	101439	98018	2.81%	0.191%
59	13.380	1917	1920	1923	rBV2	103493	109737	3.15%	0.214%
60	13.462	1932	1934	1937	rVB2	41684	42383	1.22%	0.083%
61	13.533	1942	1946	1947	rVV2	106938	125084	3.59%	0.244%
62	13.574	1948	1953	1955	rVV	201561	395069	11.33%	0.772%
63	13.598	1955	1957	1965	rVV	229276	697392	20.00%	1.362%
64	13.662	1965	1968	1976	rVB	188580	302267	8.67%	0.590%
65	13.768	1983	1986	1988	rBV	171561	160869	4.61%	0.314%
66	13.798	1988	1991	1993	rVB	157537	128165	3.68%	0.250%
67	13.821	1993	1995	1999	rBV2	135491	186909	5.36%	0.365%
68	13.868	1999	2003	2010	rVV3	257425	399806	11.47%	0.781%
69	14.015	2021	2028	2031	rBV2	1508671	2318103	66.49%	4.528%
70	14.045	2031	2033	2041	rVV	999589	1052061	30.18%	2.055%
71	14.127	2044	2047	2050	rVB	268292	220707	6.33%	0.431%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

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-BF073019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.174	2052	2055	2059	rBV3	107215	130066	3.73%	0.254%
73	14.209	2059	2061	2064	rVB2	62510	49761	1.43%	0.097%
74	14.245	2064	2067	2071	rBV2	70455	95324	2.73%	0.186%
75	14.368	2086	2088	2090	rBV2	61137	59462	1.71%	0.116%
76	14.409	2092	2095	2097	rVV	165787	178421	5.12%	0.349%
77	14.439	2098	2100	2104	rVV	93539	98445	2.82%	0.192%
78	14.480	2104	2107	2110	rVV2	180254	225207	6.46%	0.440%
79	14.533	2113	2116	2118	rVV	117962	142782	4.10%	0.279%
80	14.551	2118	2119	2123	rVV	142164	132072	3.79%	0.258%
81	14.598	2123	2127	2133	rVB3	72847	138055	3.96%	0.270%
82	14.721	2143	2148	2156	rBV4	139394	341988	9.81%	0.668%
83	14.786	2156	2159	2169	rVB3	189729	270165	7.75%	0.528%
84	14.904	2175	2179	2182	rBV2	80337	109372	3.14%	0.214%
85	15.062	2201	2206	2209	rBV	730411	1118287	32.08%	2.184%
86	15.127	2213	2217	2221	rVV4	281037	538937	15.46%	1.053%
87	15.168	2222	2224	2229	rVB	199587	221376	6.35%	0.432%
88	15.256	2237	2239	2242	rBV4	34956	48784	1.40%	0.095%
89	15.368	2254	2258	2264	rVB	451179	684704	19.64%	1.337%
90	15.433	2264	2269	2273	rBV	662748	847729	24.32%	1.656%
91	15.492	2274	2279	2283	rBV	909072	1280454	36.73%	2.501%
92	15.939	2350	2355	2359	rBV	123323	182898	5.25%	0.357%
93	16.051	2372	2374	2381	rVB3	52040	80437	2.31%	0.157%
94	16.445	2436	2441	2445	rVB2	44889	77438	2.22%	0.151%
95	16.803	2500	2502	2508	rVB2	34014	44498	1.28%	0.087%
96	16.968	2523	2530	2536	rBV2	300905	584902	16.78%	1.143%
97	17.139	2554	2559	2565	rBV	66598	131621	3.78%	0.257%
98	17.198	2565	2569	2575	rVB3	45035	81507	2.34%	0.159%
99	17.415	2599	2606	2616	rBV	199245	470520	13.50%	0.919%
100	17.650	2642	2646	2657	rVB	53928	107862	3.09%	0.211%

Sum of corrected areas: 51194300

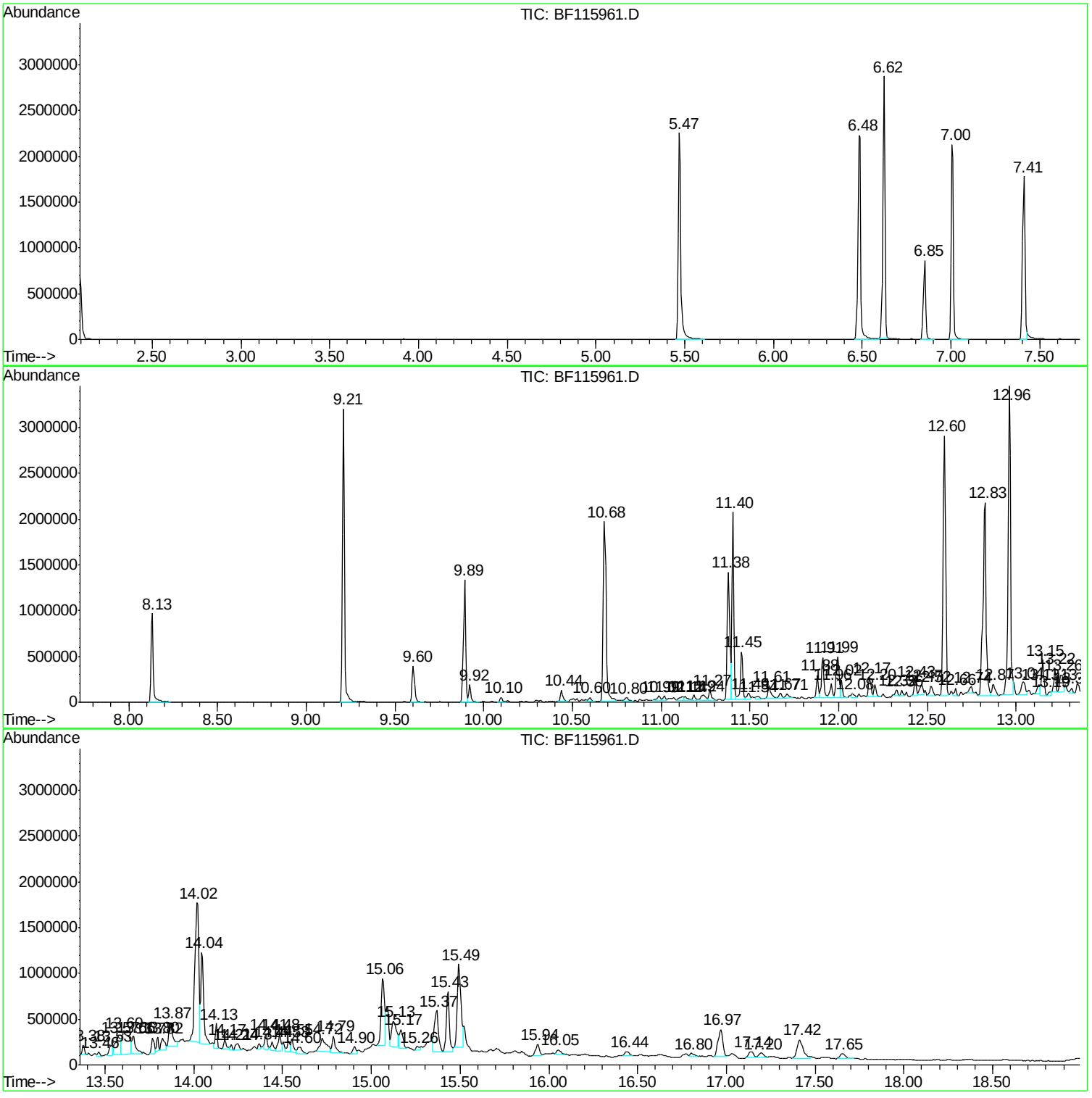
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

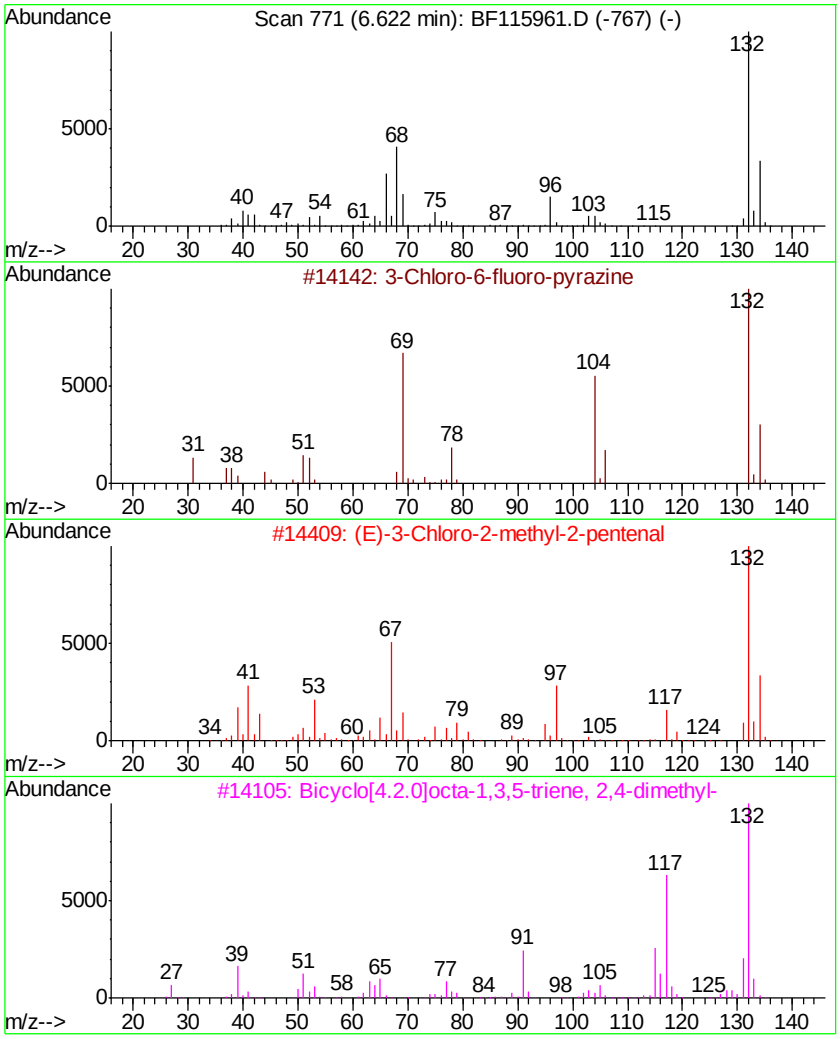
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

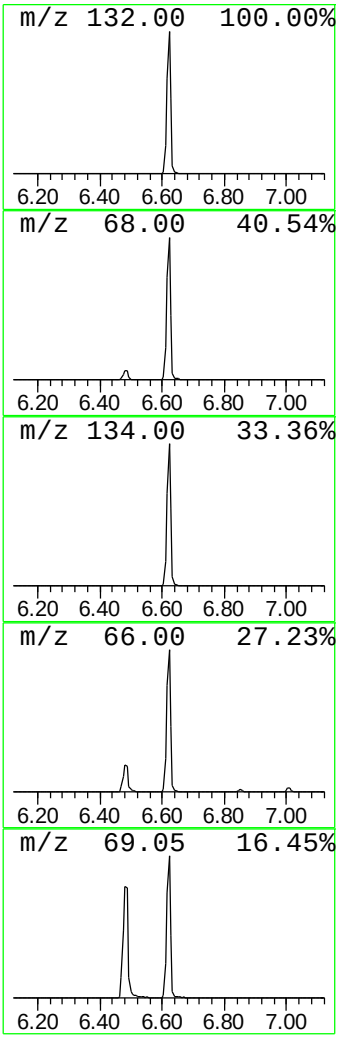
****

Peak Number 1 unknown6.62 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	67.60 ng	2524870	1,4-Dichlorobenzene-d4	6.85

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	12
3	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4	Benzene, 1-ethenyl-3,5-dimethyl-	132	C10H12	005379-20-4	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

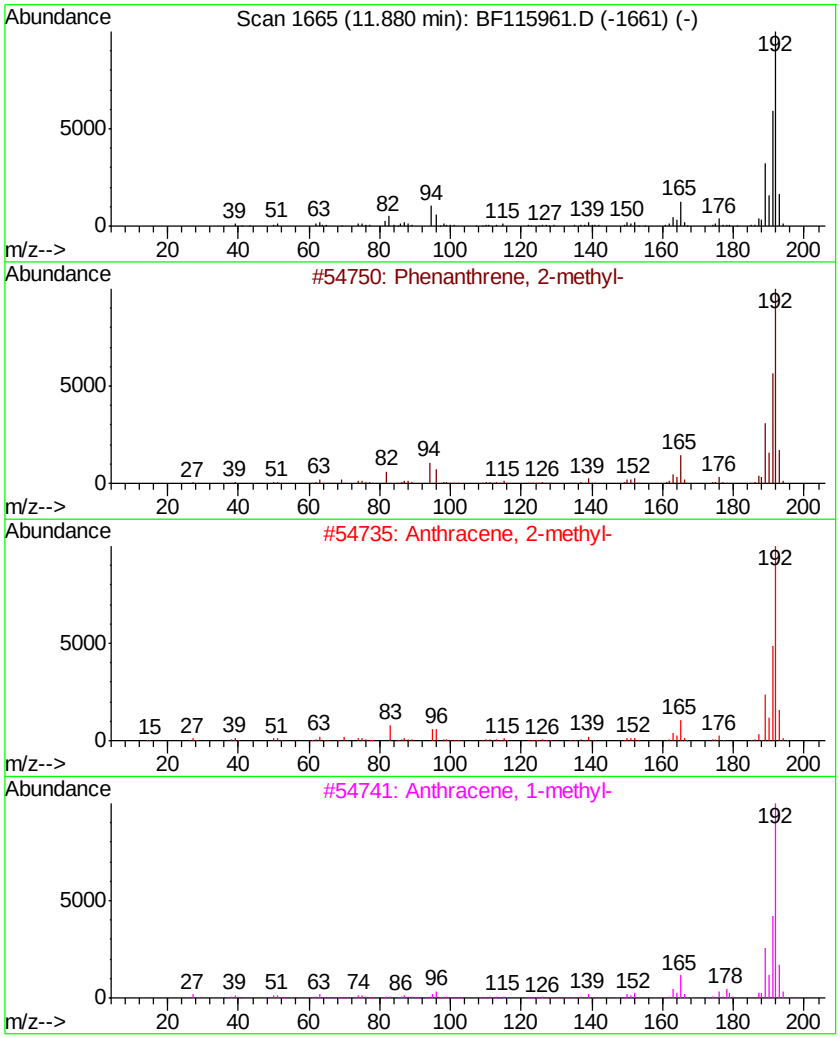
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

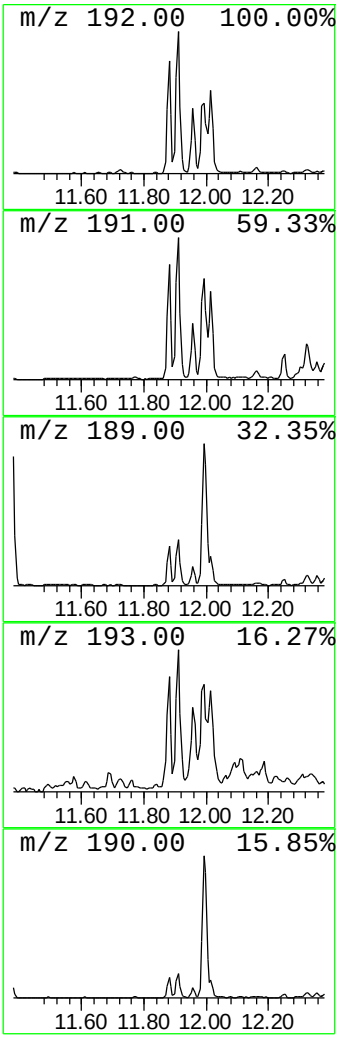
****

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	3.21 ng	214913	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

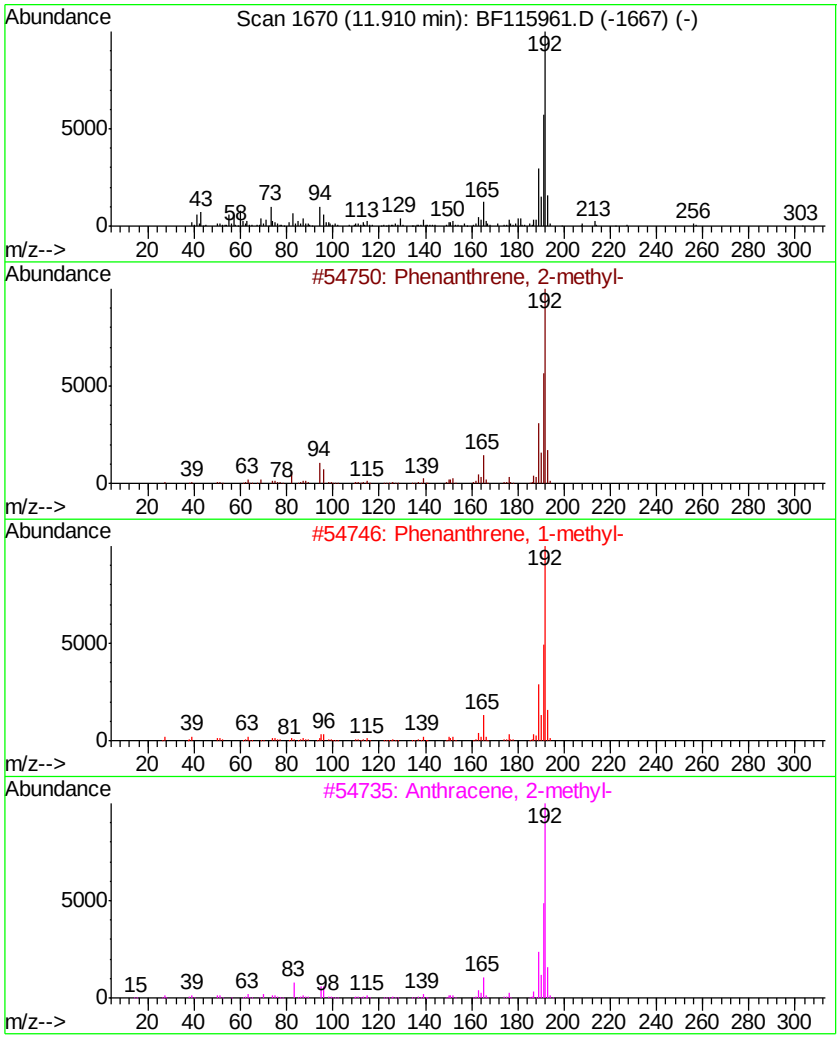
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

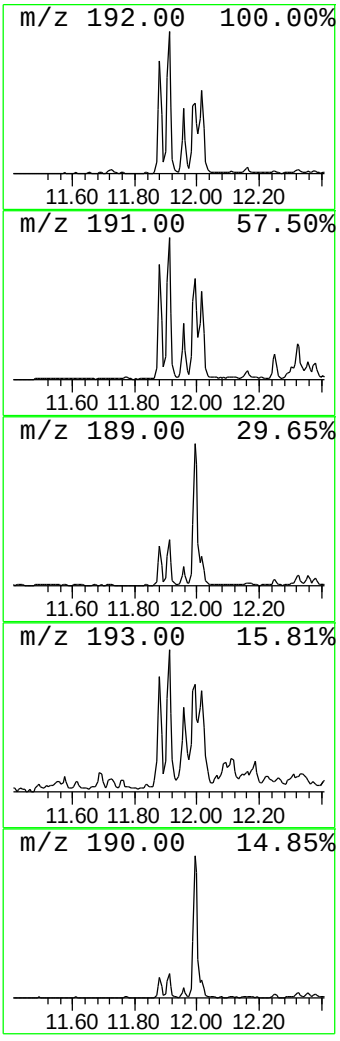
****

Peak Number 4 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	6.68 ng	447137	Phenanthrene-d10	11.38

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	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

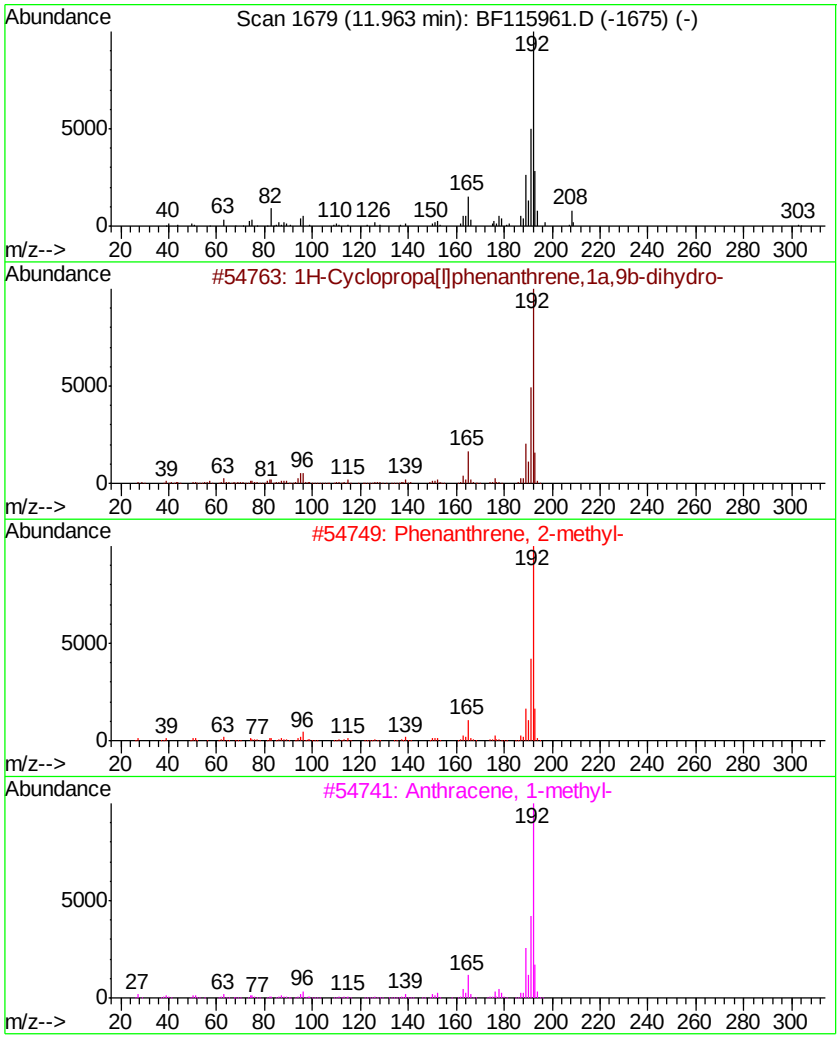
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

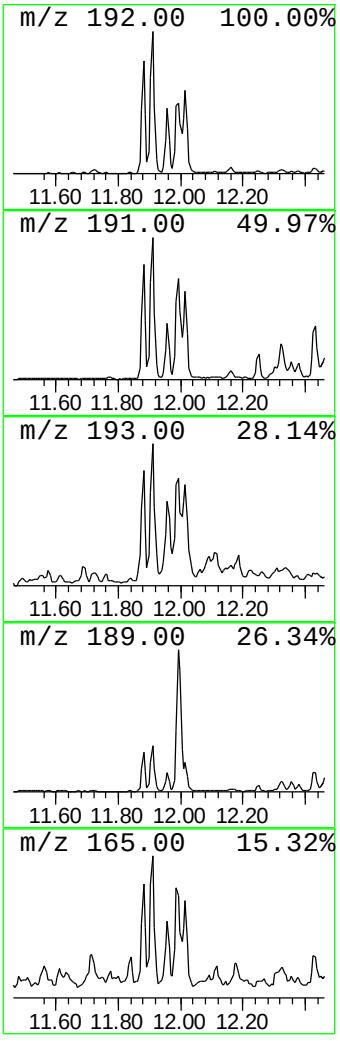
****

Peak Number 5 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	2.13 ng	142325	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

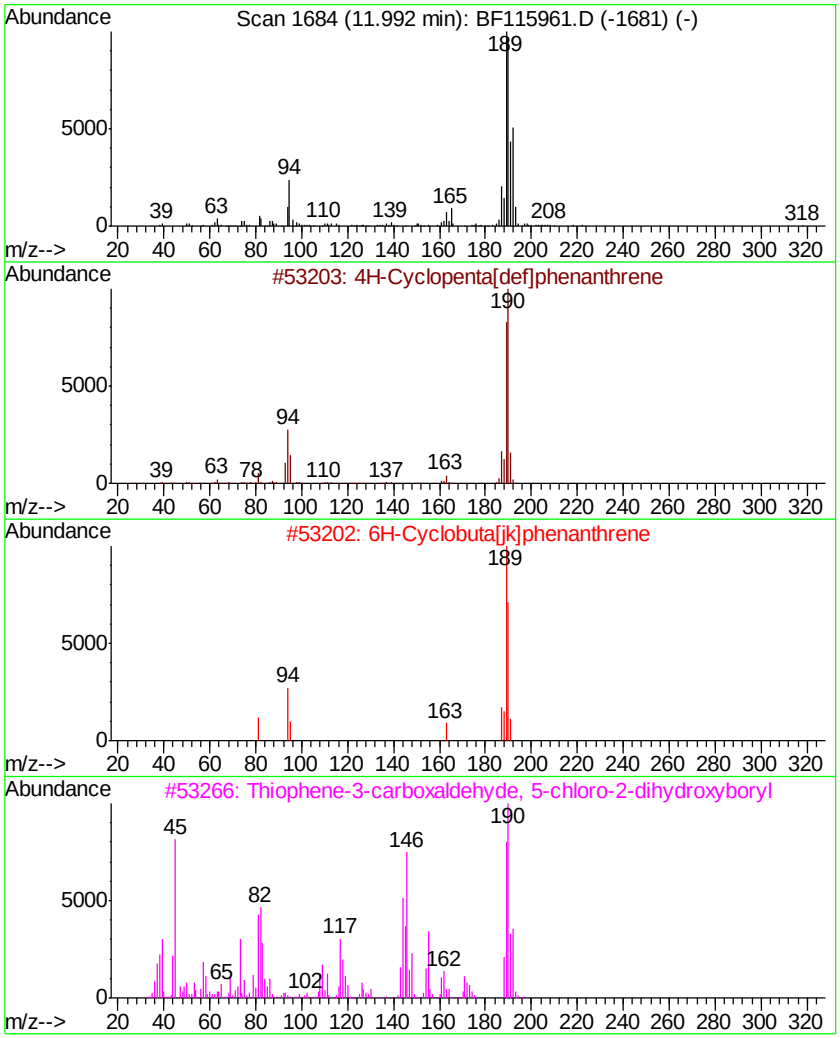
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

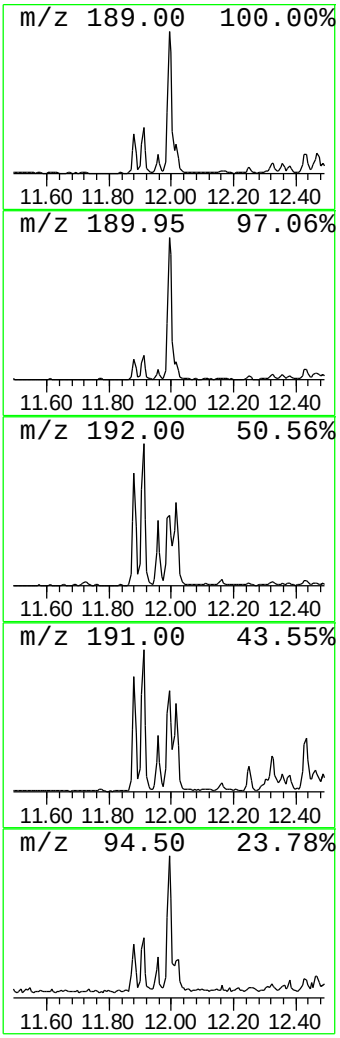
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	7.47 ng	499840	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	27
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	25
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

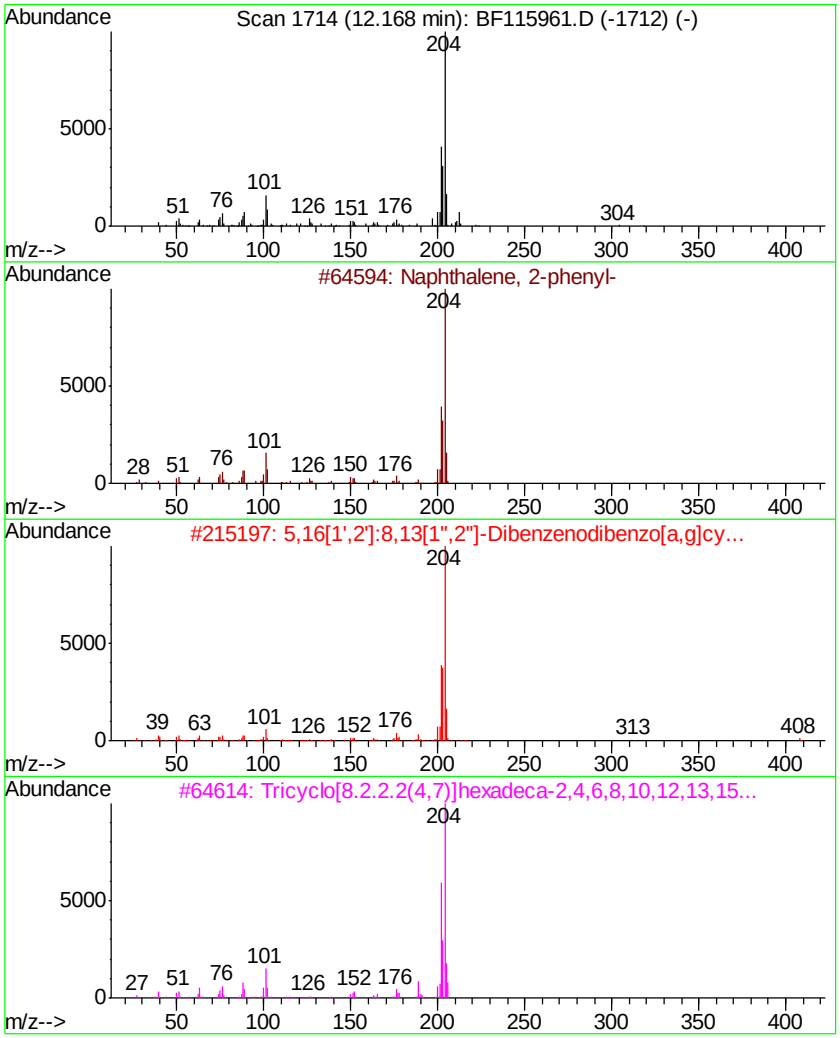
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

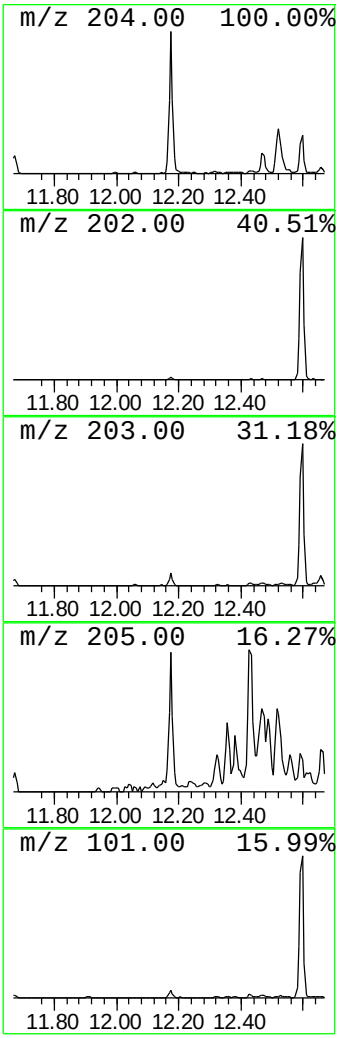
****

Peak Number 7 Naphthalene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	2.68 ng	179221	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
4	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	55
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

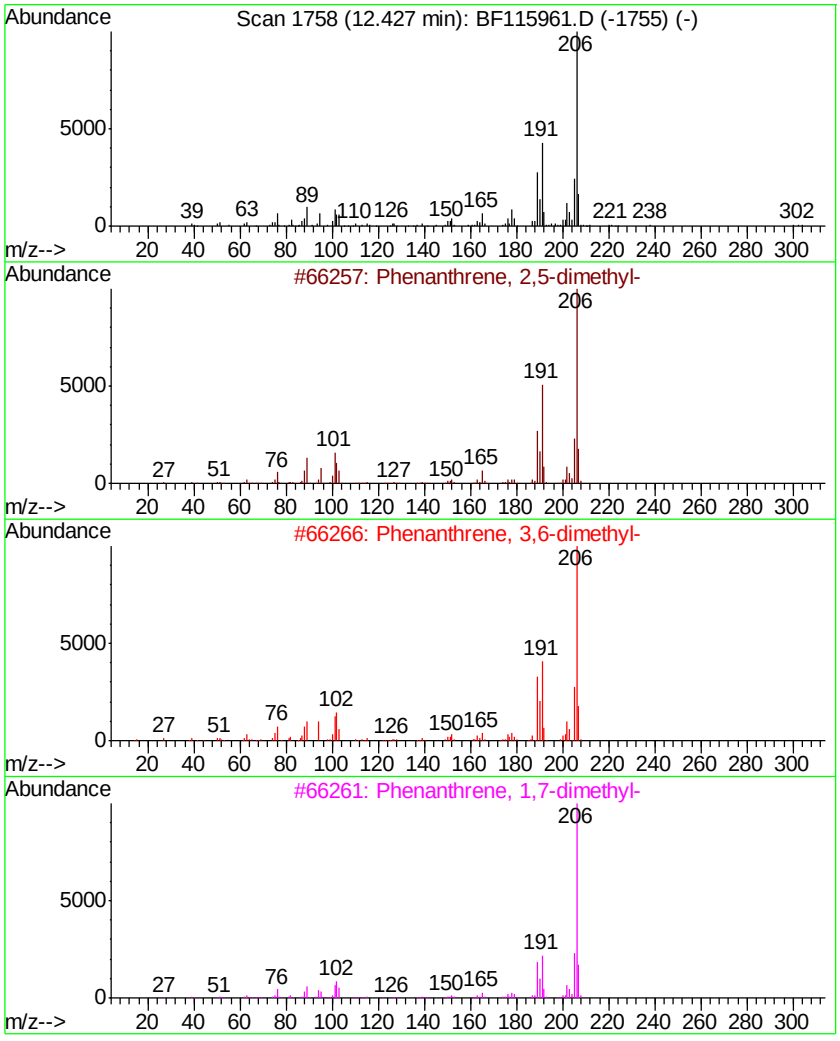
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

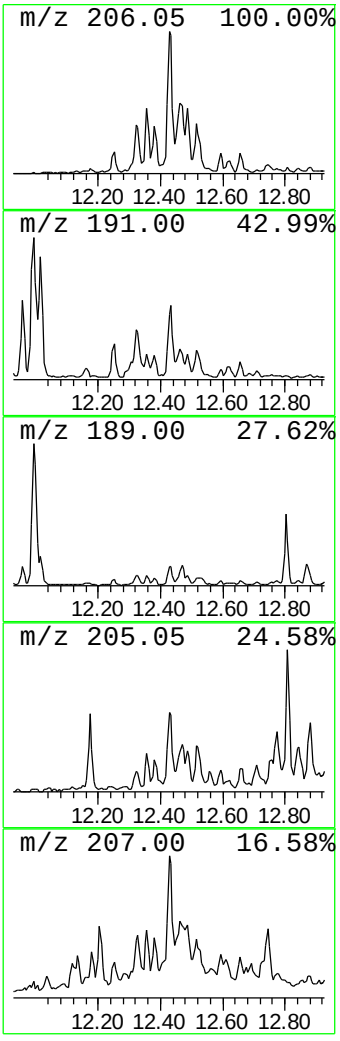
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	2.66 ng	177756	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

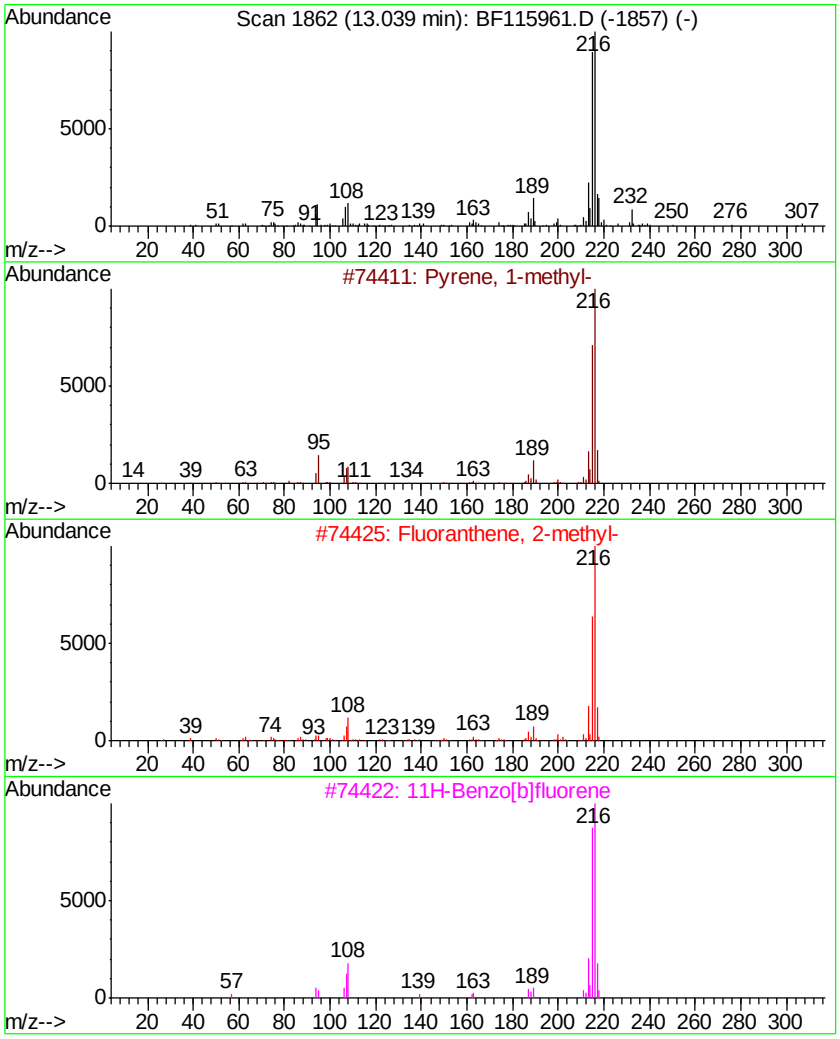
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

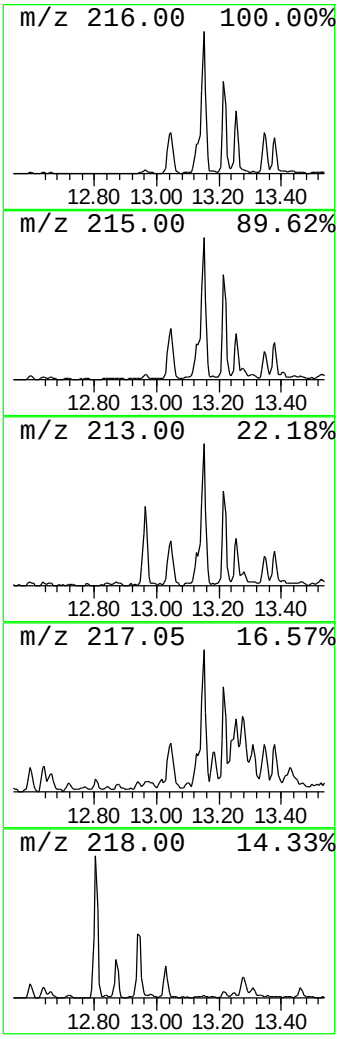
****

Peak Number 9 Pyrene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.04	2.12 ng	246157	Chrysene-d12	14.02

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	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

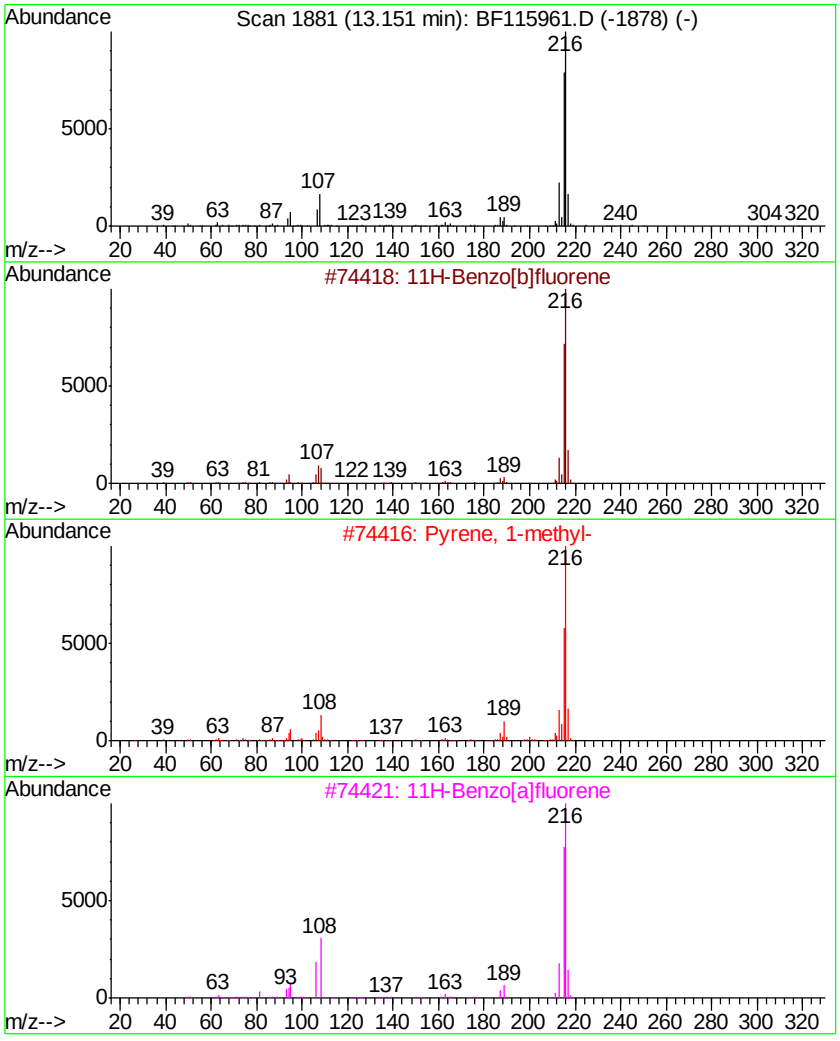
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

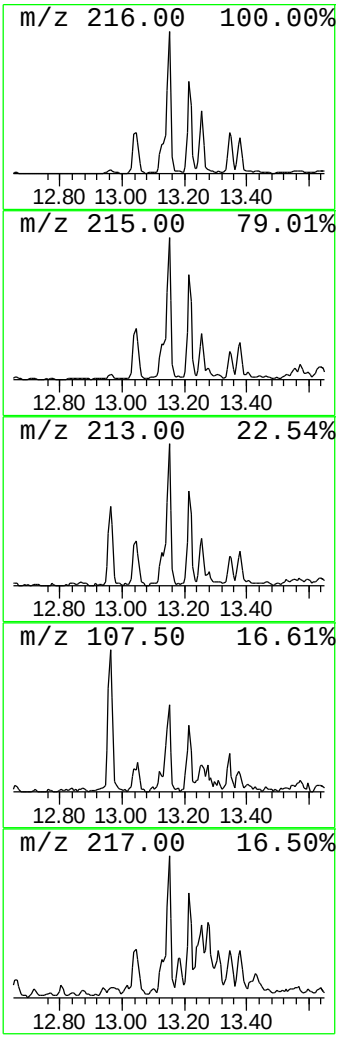
****

Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	3.09 ng	358389	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

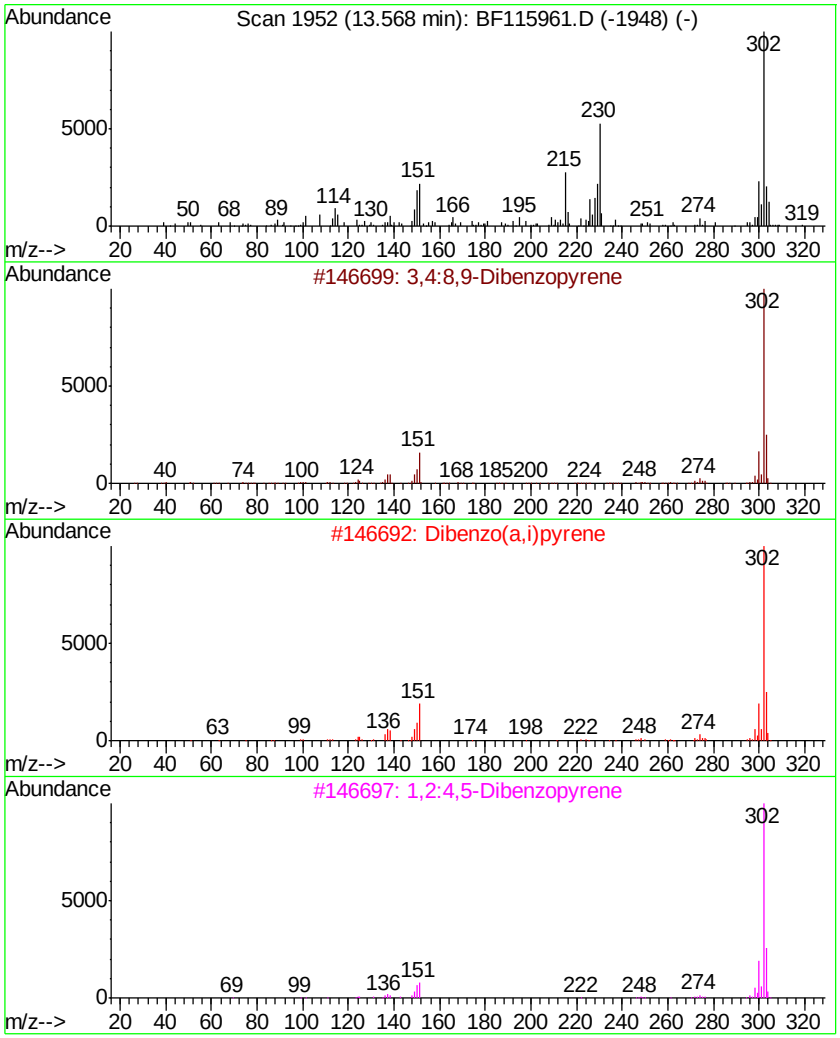
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

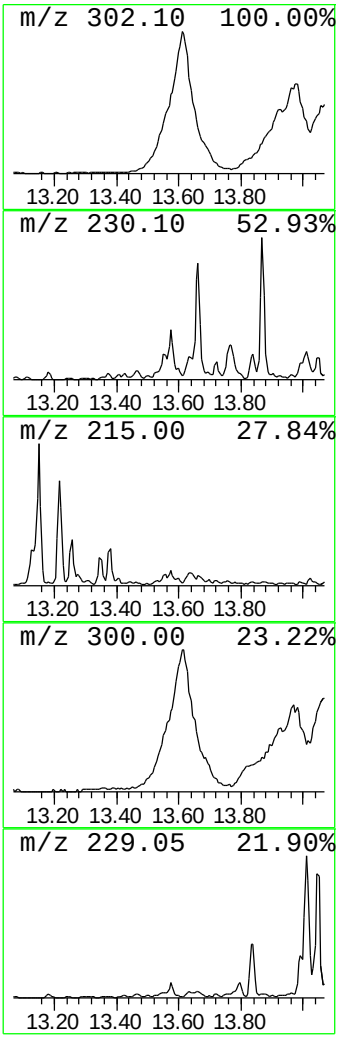
****

Peak Number 11 3,4:8,9-Dibenzopyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.57	3.41 ng	395069	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	94
2	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	89
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	64
4	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	64
5	Acetamide, 2-[2-(2-thienyl)-3-in...	302	C15H14N2OS2	296246-72-5	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

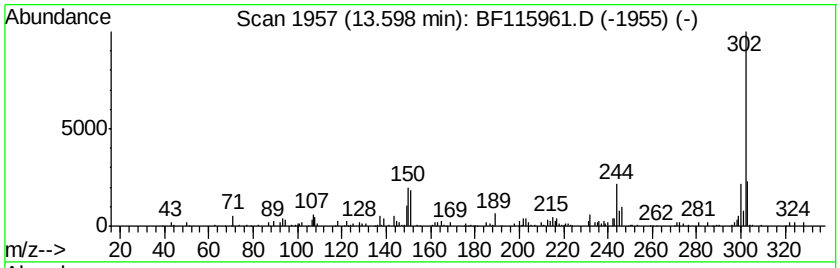
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

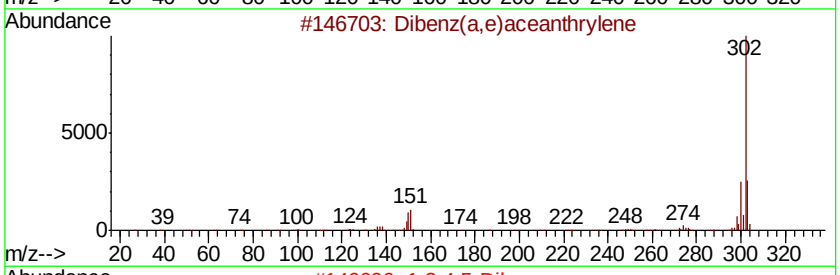
****

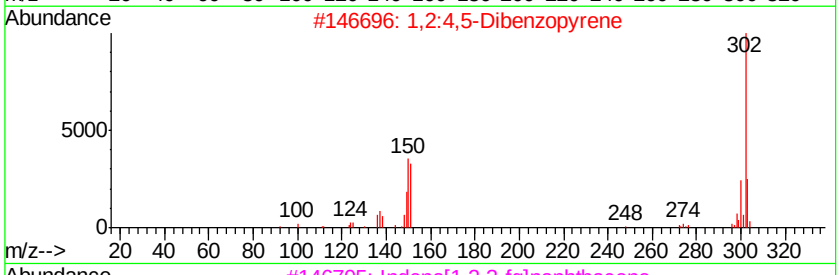
Peak Number 12 Dibenz(a,e)aceanthrylene Concentration Rank 6

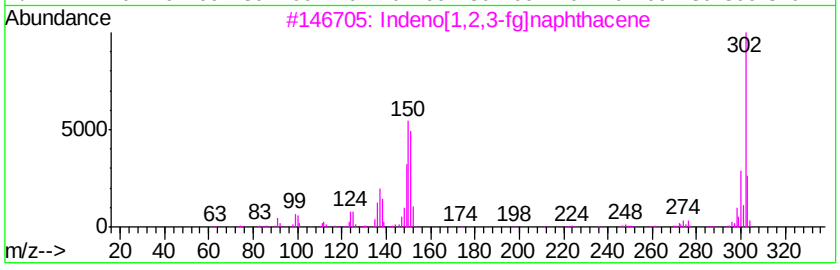
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.60	6.02 ng	697392	Chrysene-d12	14.02

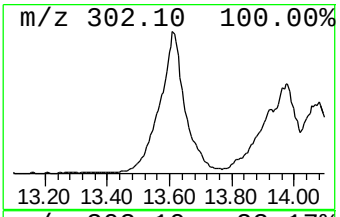
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	64
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	64
3	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	58
4	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	53
5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	49

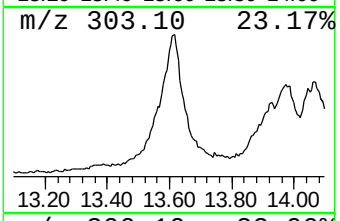


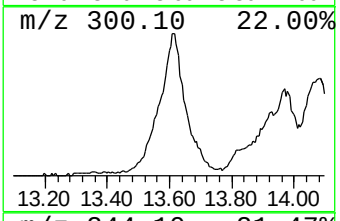


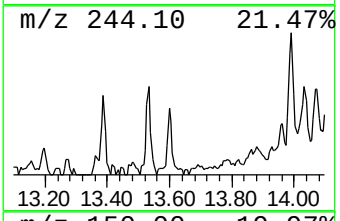


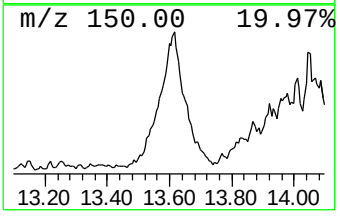












Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

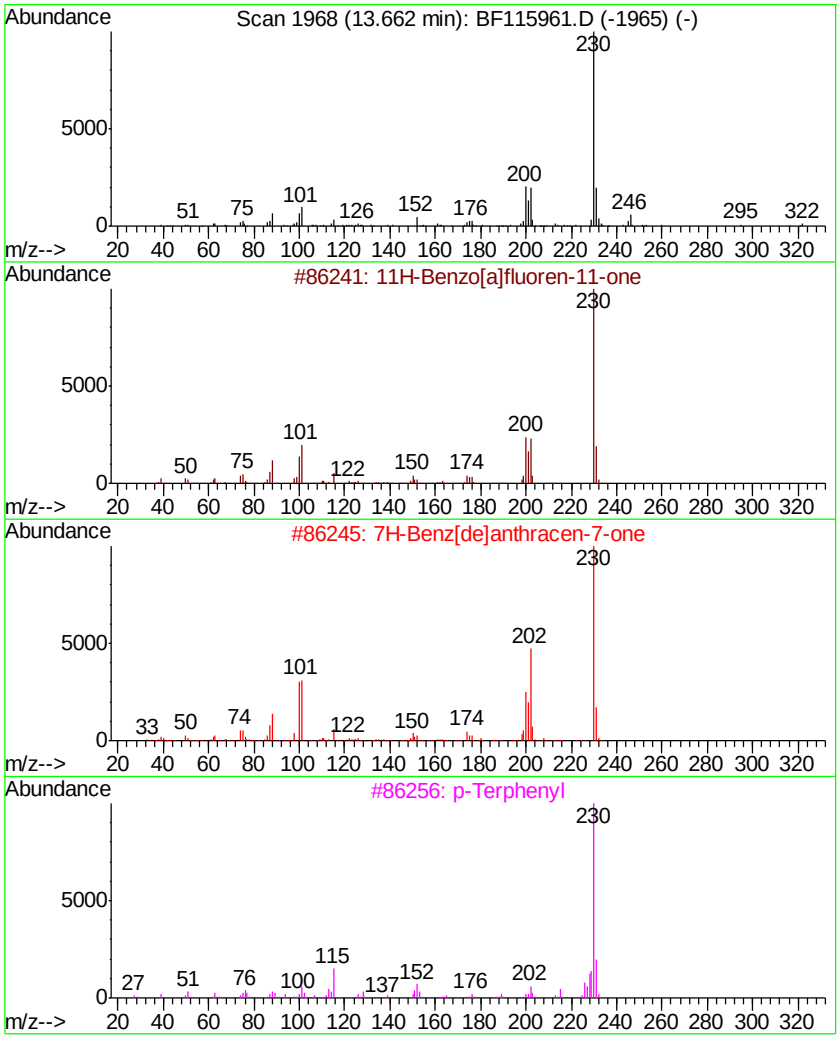
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

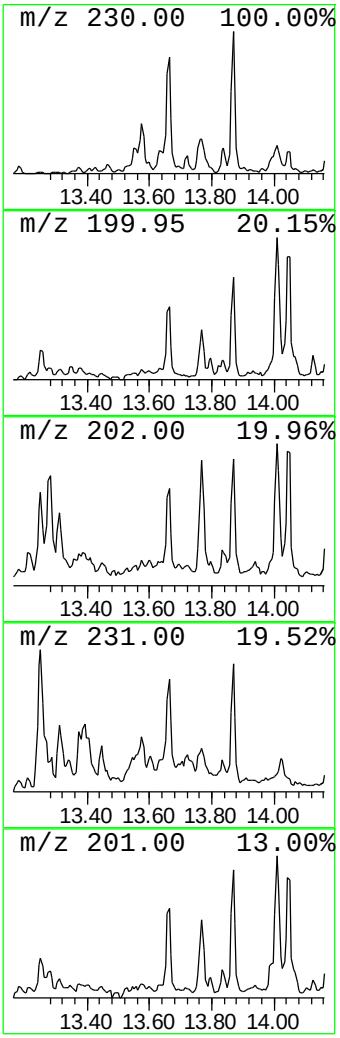
****

Peak Number 13 11H-Benzo[a]fluoren-11-one Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.66	2.61 ng	302267	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3	p-Terphenyl	230	C18H14	000092-94-4	53
4	o-Terphenyl	230	C18H14	000084-15-1	53
5	m-Terphenyl	230	C18H14	000092-06-8	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

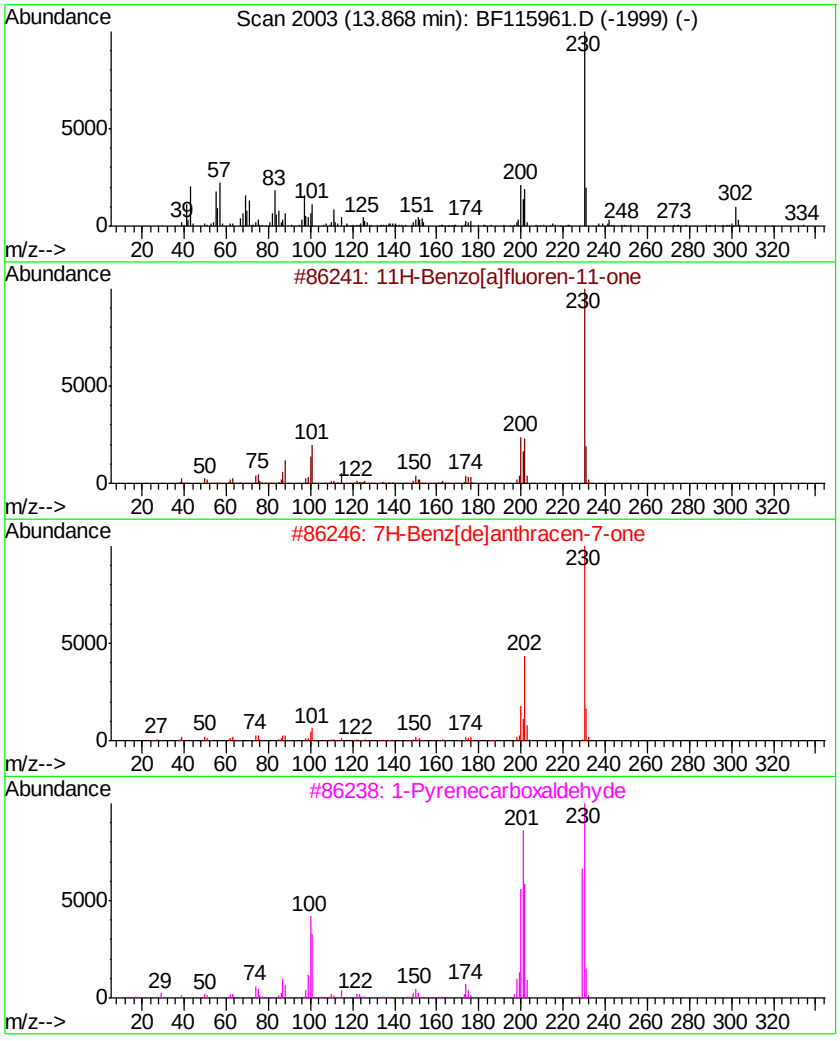
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

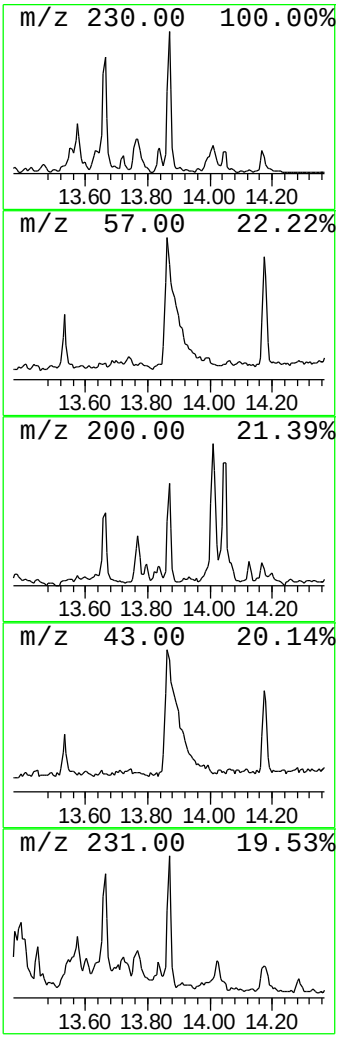
****

Peak Number 14 7H-Benz[de]anthracen-7-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.87	3.45 ng	399806	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	91
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	76
3	1-Pyrenecarboxaldehyde	230	C17H10O	003029-19-4	50
4	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	50
5	o-Terphenyl	230	C18H14	000084-15-1	50





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

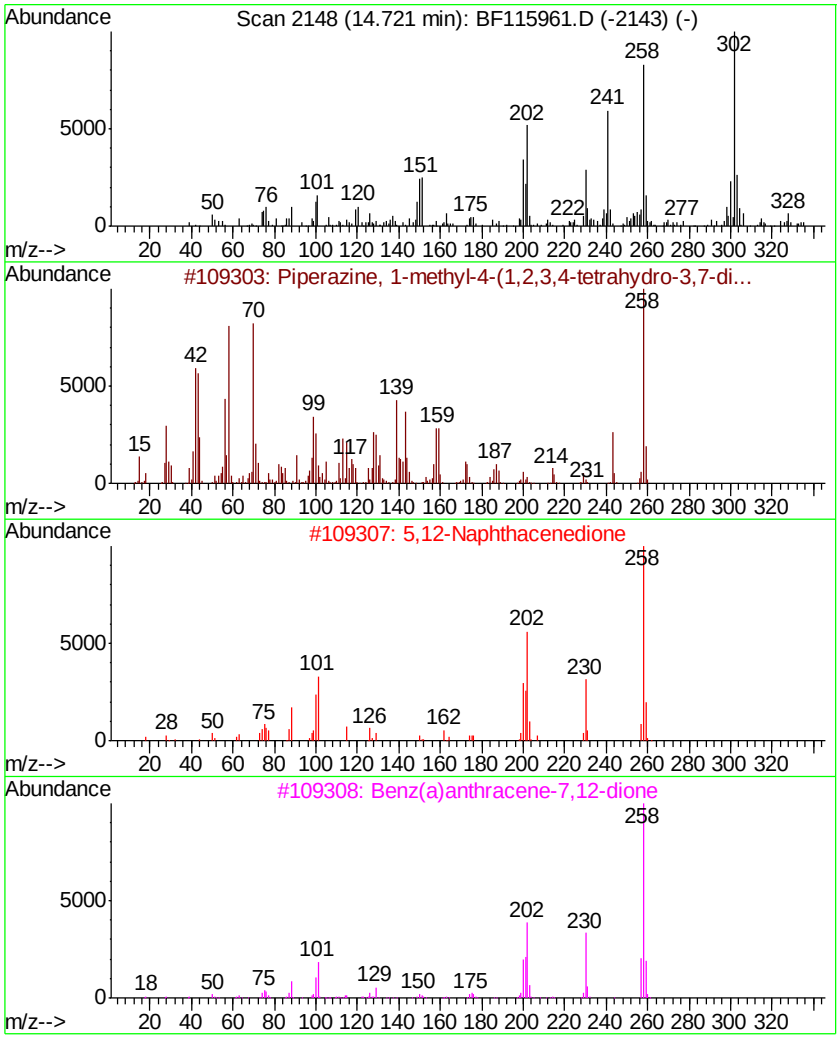
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

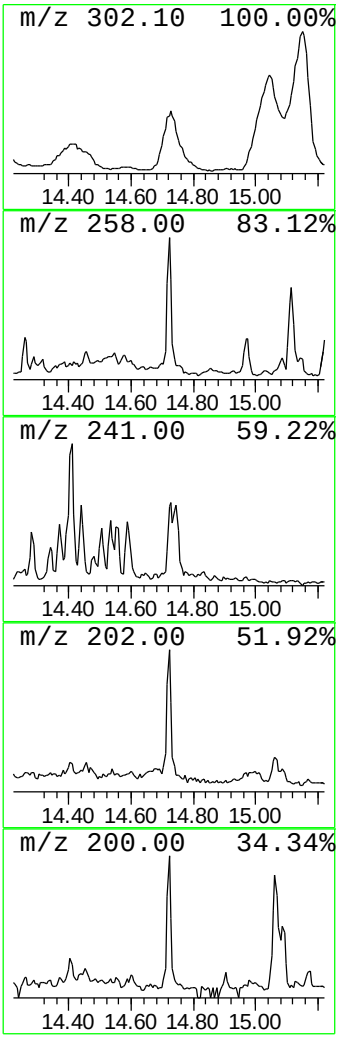
****

Peak Number 15 Piperazine, 1-methyl-4-(1,2... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.72	2.95 ng	341988	Chrysene-d12	14.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	90
2	5,12-Naphthacenedione	258	C18H10O2	001090-13-7	84
3	Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	55
4	Benzo[h]chroman, 2,2-dimethyl-5-...	300	C18H20O4	1000129-11-3	46
5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	45





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

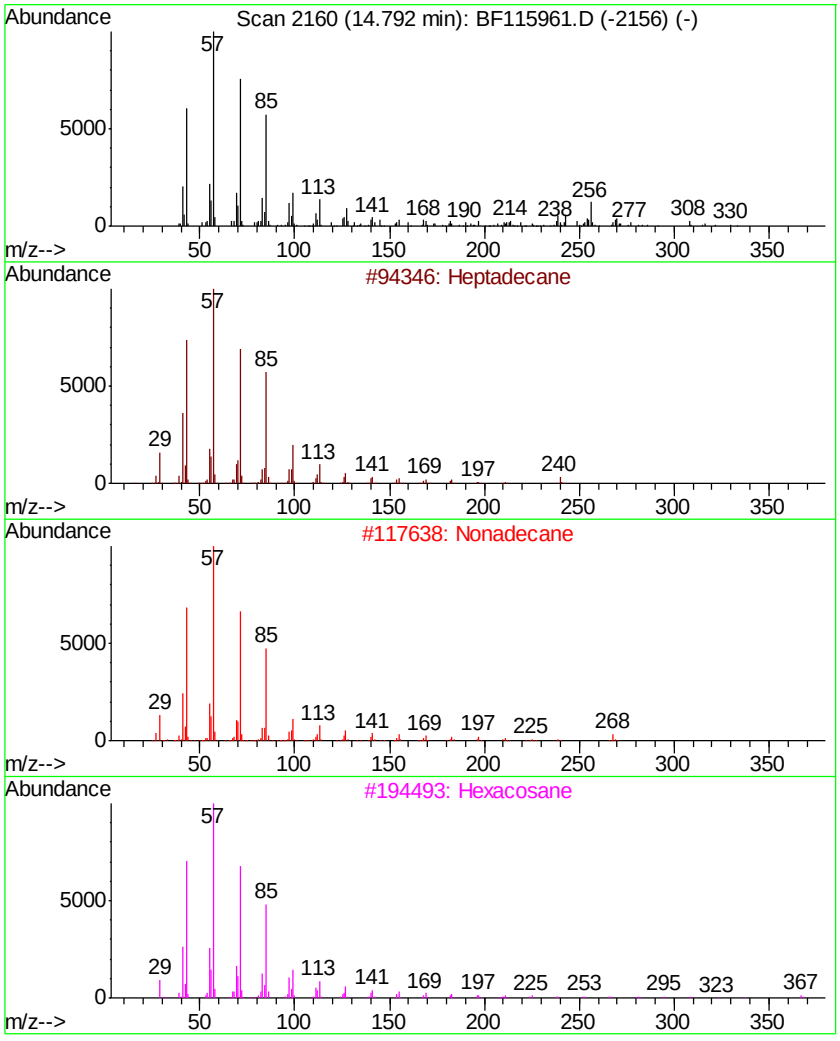
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

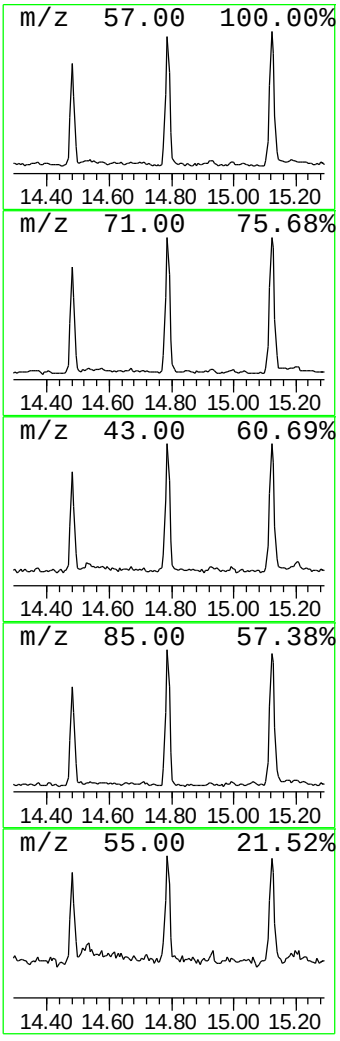
****

Peak Number 16 Heptadecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.79	4.22 ng	270165	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	94
2	Nonadecane	268	C19H40	000629-92-5	93
3	Hexacosane	366	C26H54	000630-01-3	91
4	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
5	Heneicosane	296	C21H44	000629-94-7	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

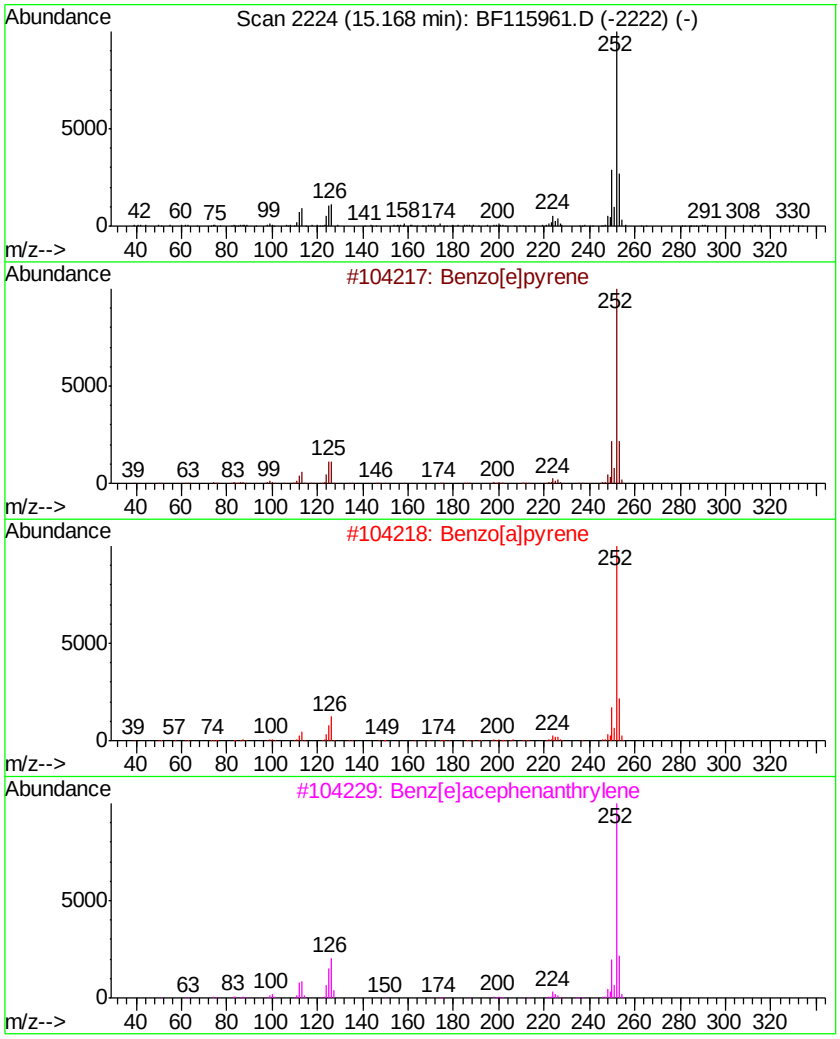
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

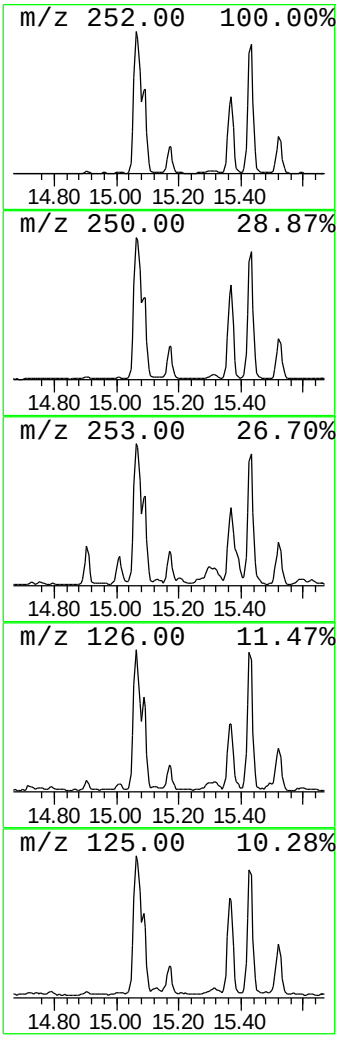
****

Peak Number 17 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	3.46 ng	221376	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5	Perylene	252	C20H12	000198-55-0	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

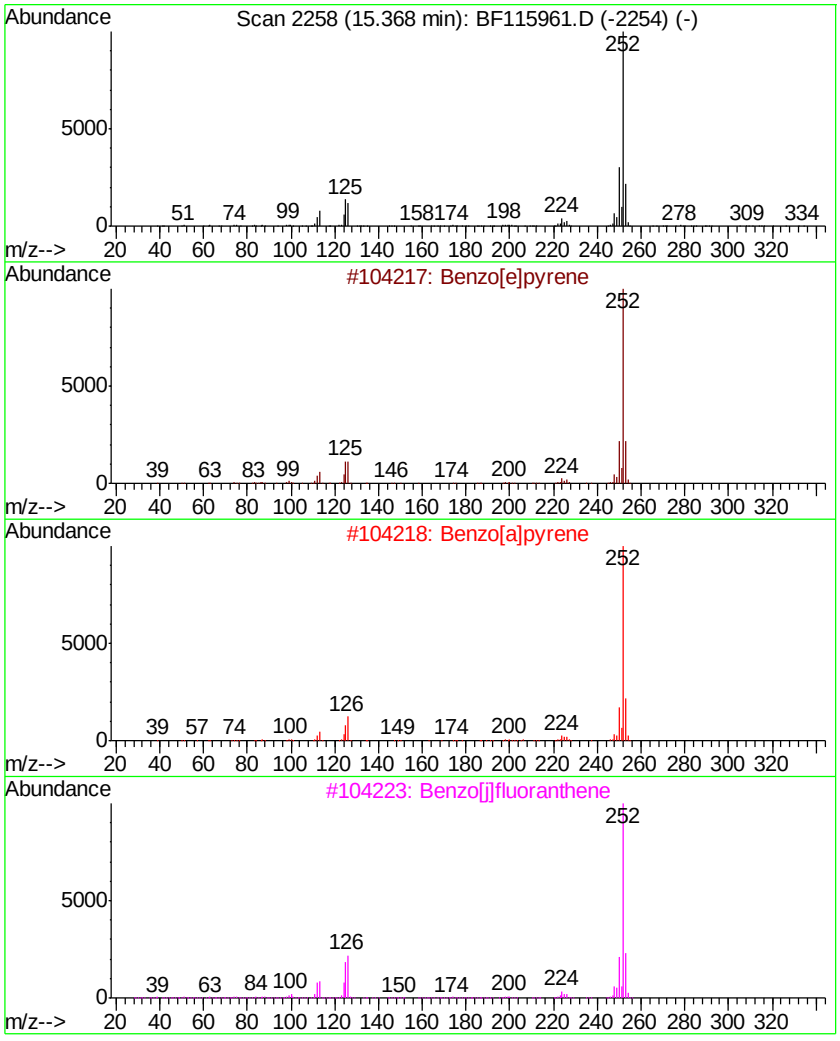
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

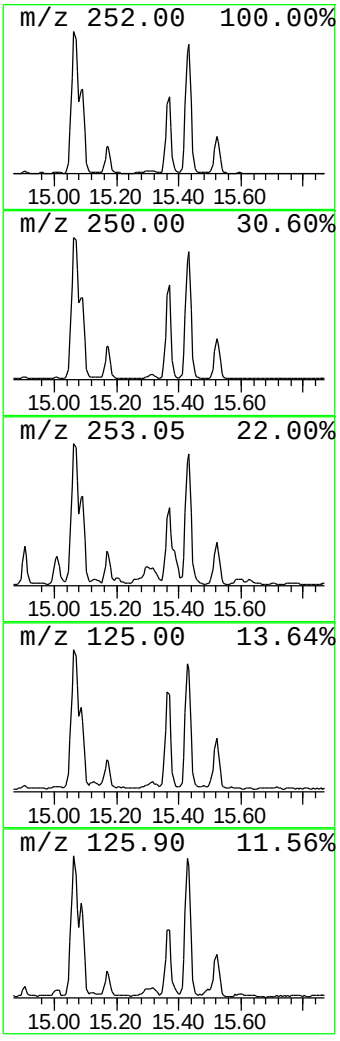
****

Peak Number 18 Benzo[j]fluoranthene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	10.69 ng	684704	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	98
3	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
5	Perylene	252	C20H12	000198-55-0	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

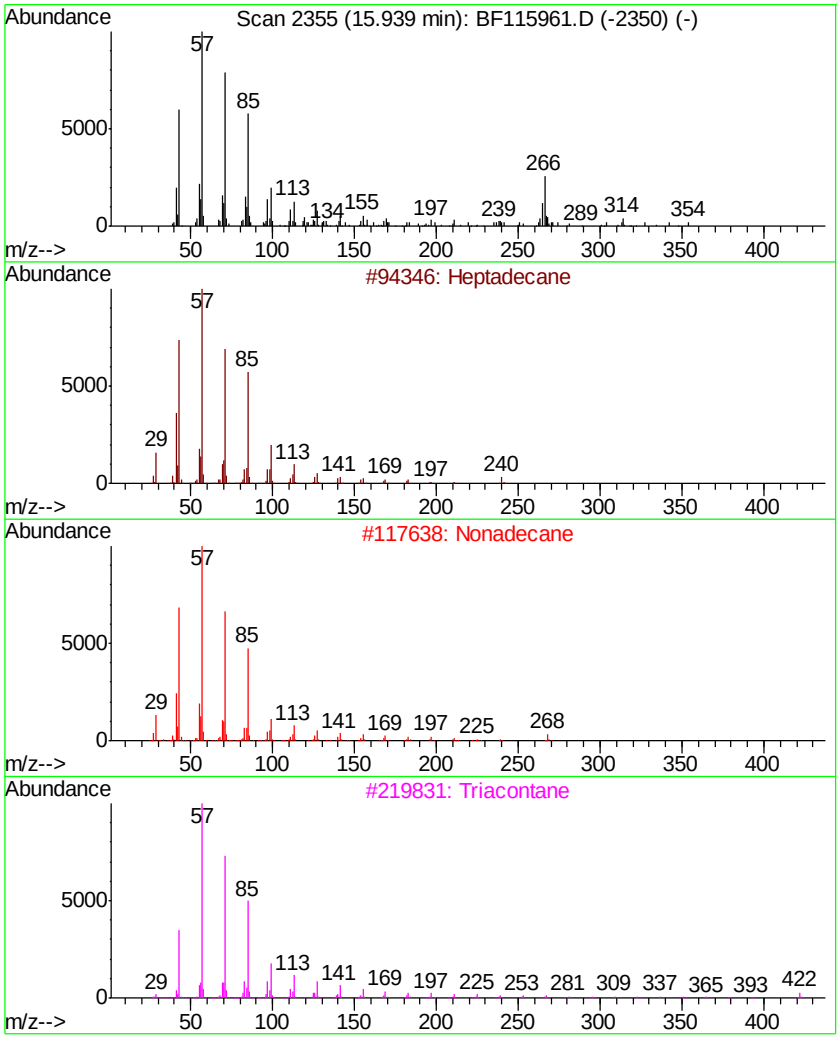
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

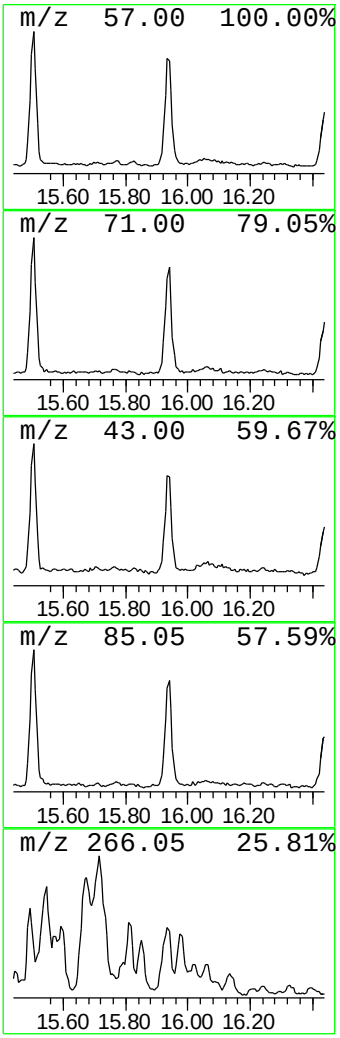
****

Peak Number 19 Nonadecane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	2.86 ng	182898	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	89
2	Nonadecane	268	C19H40	000629-92-5	89
3	Triacontane	422	C30H62	000638-68-6	76
4	5,5-Diethylheptadecane	296	C21H44	1000360-41-7	74
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	68





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

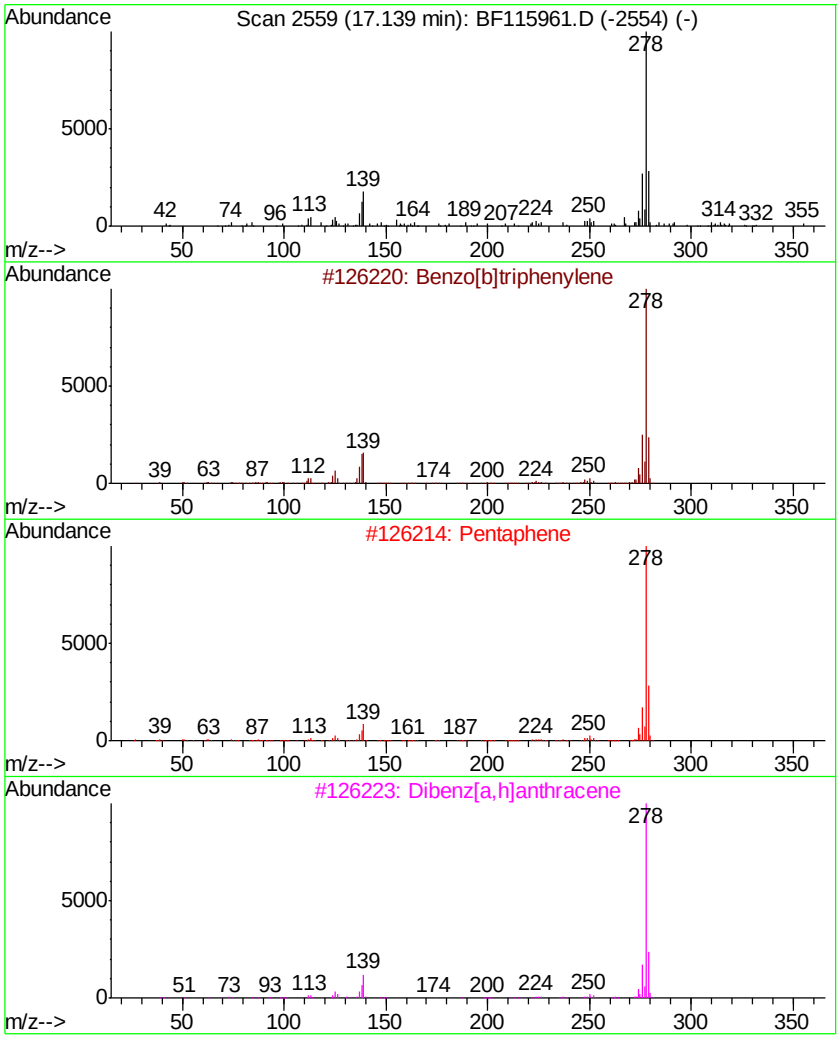
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

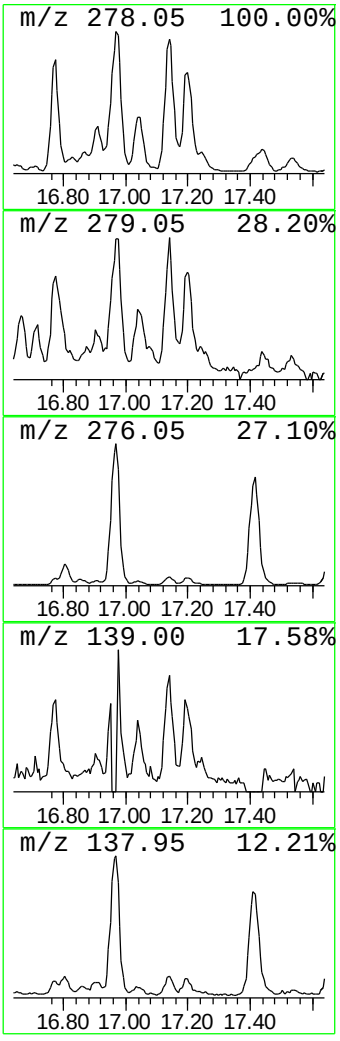
****

Peak Number 20 Benzo[b]triphenylene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.14	2.06 ng	131621	Perylene-d12	15.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	93
2	Pentaphene	278	C22H14	000222-93-5	93
3	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	91
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	91
5	Benzo[b]chrysene	278	C22H14	000214-17-5	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF080219\
Data File : BF115961.D
Acq On : 2 Aug 2019 21:50
Operator : HP/JU
Sample : K4130-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : 1S-F1-F4-COMP-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF073019.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
unknown6.62	6.62	67.6	ng	2524870	1	6.85	746952	20.0
Phenanthrene, 2-m...	11.88	3.2	ng	214913	4	11.38	1338050	20.0
Phenanthrene, 1-m...	11.91	6.7	ng	447137	4	11.38	1338050	20.0
1H-Cyclopropa[l]p...	11.96	2.1	ng	142325	4	11.38	1338050	20.0
4H-Cyclopenta[def...	11.99	7.5	ng	499840	4	11.38	1338050	20.0
Naphthalene, 2-ph...	12.17	2.7	ng	179221	4	11.38	1338050	20.0
Phenanthrene, 2,5...	12.43	2.7	ng	177756	4	11.38	1338050	20.0
Pyrene, 1-methyl-	13.04	2.1	ng	246157	5	14.02	2318100	20.0
11H-Benzo[b]fluorene	13.15	3.1	ng	358389	5	14.02	2318100	20.0
3,4:8,9-Dibenzopy...	13.57	3.4	ng	395069	5	14.02	2318100	20.0
Dibenz(a,e)aceant...	13.60	6.0	ng	697392	5	14.02	2318100	20.0
11H-Benzo[a]fluor...	13.66	2.6	ng	302267	5	14.02	2318100	20.0
7H-Benz[de]anthra...	13.87	3.5	ng	399806	5	14.02	2318100	20.0
Piperazine, 1-met...	14.72	3.0	ng	341988	5	14.02	2318100	20.0
Heptadecane	14.79	4.2	ng	270165	6	15.49	1280450	20.0
Benzo[e]pyrene	15.17	3.5	ng	221376	6	15.49	1280450	20.0
Benzo[j]fluoranthene	15.37	10.7	ng	684704	6	15.49	1280450	20.0
Nonadecane	15.94	2.9	ng	182898	6	15.49	1280450	20.0
Benzo[b]triphenylene	17.14	2.1	ng	131621	6	15.49	1280450	20.0