LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

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-BF012519.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	5.463	571	574	594	rBV	1064975	1382003	84.84%	5.047%
2	6.481	744	747	763	rBV	1261498	1529551	93.90%	5.586%
3	6.598	763	767	780	rVB	1754030	1628910	100.00%	5.949%
4	6.816	800	804	813	rBV	446884	423299	25.99%	1.546%
5	6.969	826	830	842	rBV	1302567	1174987	72.13%	4.291%
6	7.380	897	900	920	rBV	912773	937880	57.58%	3.425%
7	7.675	947	950	957	rBV	22845	26127	1.60%	0.095%
8	8.098	1018	1022	1039	rBV	493521	515420	31.64%	1.882%
9	8.316	1055	1059	1066	rVV	19728	19264	1.18%	0.070%
10	8.375	1066	1069	1078	rVB	19737	21903	1.34%	0.080%
11	8.804	1139	1142	1150	rBV2	18149	28530	1.75%	0.104%
12	9.169	1200	1204	1214	rBV	1642199	1452706	89.18%	5.306%
13	9.286	1219	1224	1229	rVB2	18326	21857	1.34%	0.080%
14	9.563	1268	1271	1276	rVB	90059	78294	4.81%	0.286%
15	9.851	1316	1320	1323	rBV	519531	487391	29.92%	1.780%
16	9.880	1323	1325	1331	rVB	66152	64135	3.94%	0.234%
17	10.063	1352	1356	1359	rBV	42950	43634	2.68%	0.159%
18	10.404	1410	1414	1419	rBV	52425	57700	3.54%	0.211%
19	10.645	1451	1455	1466	rBV	841557	862387	52.94%	3.150%
20	11.157	1538	1542	1545	rBV	37009	36569	2.24%	0.134%
21	11.186	1545	1547	1550	rVV3	23817	24975	1.53%	0.091%
22	11.233	1553	1555	1559	rVB	69009	60844	3.74%	0.222%
23	11.339	1569	1573	1574	rBV	460795	414272	25.43%	1.513%
24	11.363	1574	1577	1582	rVV	1527197	1270125	77.97%	4.639%
25	11.416	1582	1586	1591	rVV	279477	294767	18.10%	1.077%
26	11.463	1591	1594	1598	rVB	18646	24108	1.48%	0.088%
27	11.580	1608	1614	1619	rBV2	137594	177135	10.87%	0.647%
28	11.674	1624	1630	1631	rBV3	15280	21640	1.33%	0.079%
29	11.751	1640	1643	1646	rBV4	14060	19308	1.19%	0.071%
30	11.839	1655	1658	1659	rBV	164055	136025	8.35%	0.497%
31	11.868	1659	1663	1668	rVV2	226317	332351	20.40%	1.214%
32	11.915	1668	1671	1674	rVV	70602	73400	4.51%	0.268%
33	11.951	1674	1677	1679	rVV	175069	191087	11.73%	0.698%
34	11.974	1679	1681	1685	rVB	117403	104108	6.39%	0.380%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

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-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.127	1704	1707	1712	rVB	102544	108809	6.68%	0.397%
36	12.180	1713	1716	1719	rBV	70554	62552	3.84%	0.228%
37	12.280	1728	1733	1737	rBV3	43485	61751	3.79%	0.226%
38	12.315	1737	1739	1741	rVB	27545	19279	1.18%	0.070%
39	12.345	1741	1744	1747	rVB3	39236	44159	2.71%	0.161%
40	12.386	1748	1751	1754	rBV	88560	87298	5.36%	0.319%
41	12.445	1759	1761	1763	rVB	30748	24314	1.49%	0.089%
42	12.474	1763	1766	1767	rBV	29658	29539	1.81%	0.108%
43	12.557	1776	1780	1783	rBV	1837590	1603066	98.41%	5.855%
44	12.615	1788	1790	1791	rBV2	26133	23516	1.44%	0.086%
45	12.633	1791	1793	1797	rVB3	61170	56815	3.49%	0.207%
46	12.704	1802	1805	1808	rVV	95023	89960	5.52%	0.329%
47	12.786	1812	1819	1822	rVV	1554061	1590449	97.64%	5.809%
48	12.833	1824	1827	1832	rVB	83644	91018	5.59%	0.332%
49	12.910	1836	1840	1844	rBV	1235885	1193992	73.30%	4.361%
50	12.957	1845	1848	1851	rVB	73280	72620	4.46%	0.265%
51	13.004	1851	1856	1860	rBV2	100612	162020	9.95%	0.592%
52	13.045	1860	1863	1866	rBV2	43902	50884	3.12%	0.186%
53	13.110	1867	1874	1879	rBV	195093	316289	19.42%	1.155%
54	13.174	1883	1885	1888	rBV	65078	59295	3.64%	0.217%
55	13.215	1888	1892	1899	rVB2	137920	183109	11.24%	0.669%
56	13.268	1899	1901	1904	rVB2	31547	29604	1.82%	0.108%
57	13.310	1905	1908	1911	rBV	110004	109794	6.74%	0.401%
58	13.339	1911	1913	1916	rBV	109272	92445	5.68%	0.338%
59	13.633	1960	1963	1966	rVB	120367	109300	6.71%	0.399%
60	13.733	1977	1980	1981	rBV	125216	110469	6.78%	0.403%
61	13.751	1981	1983	1986	rVV	150986	150844	9.26%	0.551%
62	13.804	1986	1992	1996	rVV3	133793	272098	16.70%	0.994%
63	13.845	1996	1999	2003	rVB	129586	135265	8.30%	0.494%
64	13.933	2011	2014	2016	rBV	51480	50588	3.11%	0.185%
65	13.974	2017	2021	2025	rVV2	1036778	1559211	95.72%	5.695%
66	14.009	2025	2027	2033	rVB	883796	771922	47.39%	2.819%
67	14.092	2038	2041	2044	rBV2	81325	103928	6.38%	0.380%
68	14.368	2086	2088	2092	rVB	148125	131105	8.05%	0.479%
69	14.404	2092	2094	2098	rBV2	78425	86563	5.31%	0.316%
70	14.445	2098	2101	2103	rBV2	76695	77318	4.75%	0.282%
71	14.498	2108	2110	2116	rVB2	69255	112590	6.91%	0.411%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

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-BF012519.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.033	2196	2201	2210	rBV	661798	1326678	81.45%	4.845%
73	15.139	2216	2219	2224	rVB	87685	98562	6.05%	0.360%
74	15.333	2248	2252	2256	rBV	332992	403501	24.77%	1.474%
75	15.398	2259	2263	2269	rVV	508409	657718	40.38%	2.402%
76	15.456	2269	2273	2276	rVV	325581	396098	24.32%	1.447%
77	15.486	2276	2278	2284	rVB2	112213	165456	10.16%	0.604%
78	16.950	2521	2527	2535	rVB2	161023	316681	19.44%	1.157%
79	17.403	2598	2604	2611	rBV	122775	245761	15.09%	0.898%

Sum of corrected areas: 27380925

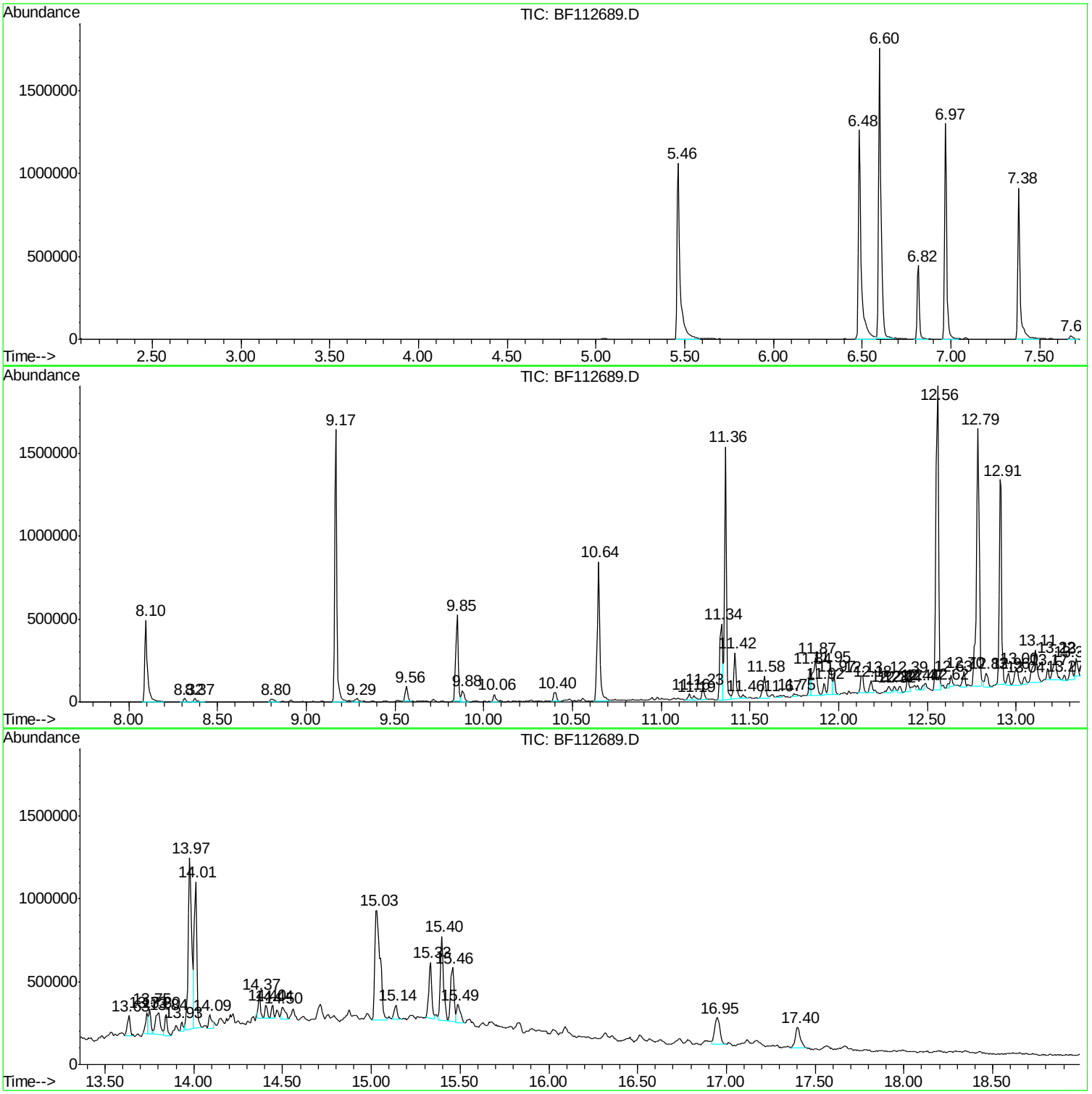
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

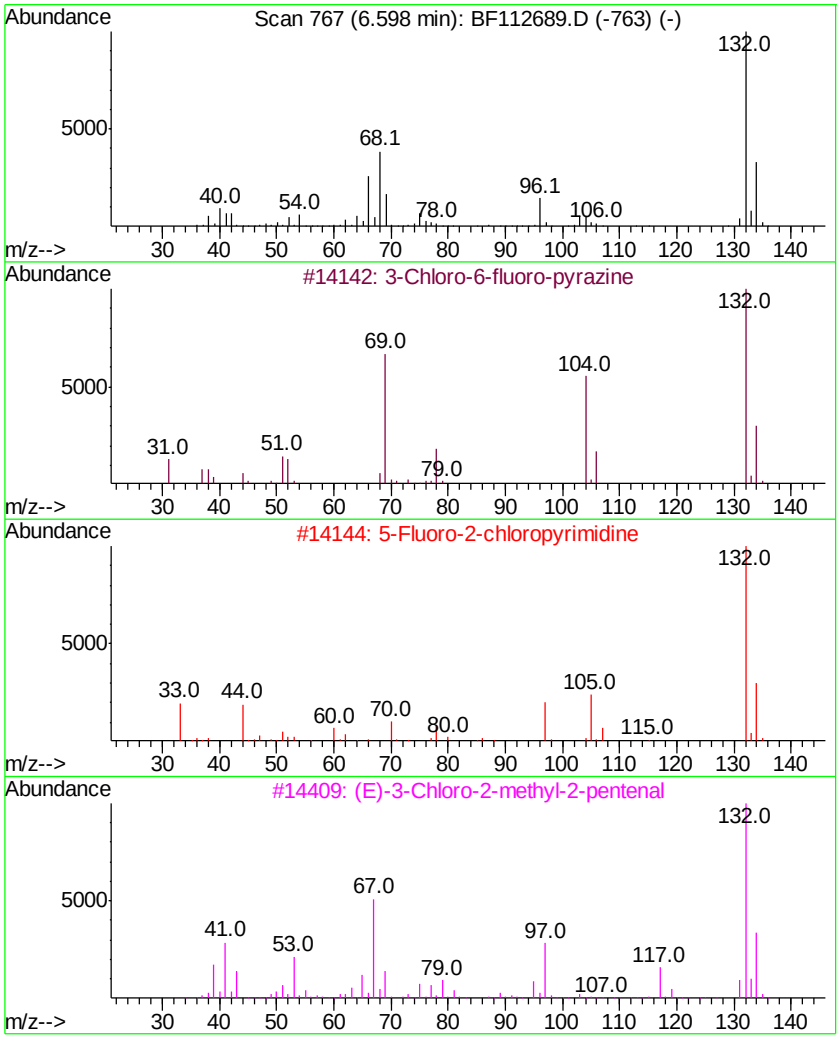
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

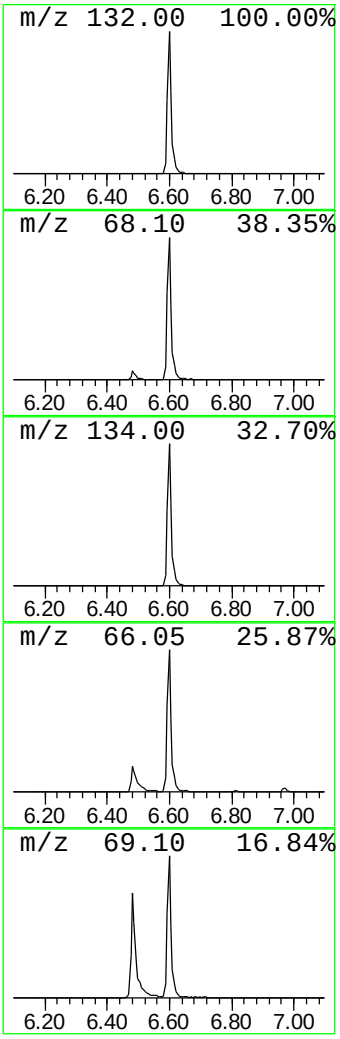
****

Peak Number 1 unknown6.60 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	76.96 ng	1628910	1,4-Dichlorobenzene-d4	6.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5	Amphetaminil	250	C17H18N2	017590-01-1	10





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

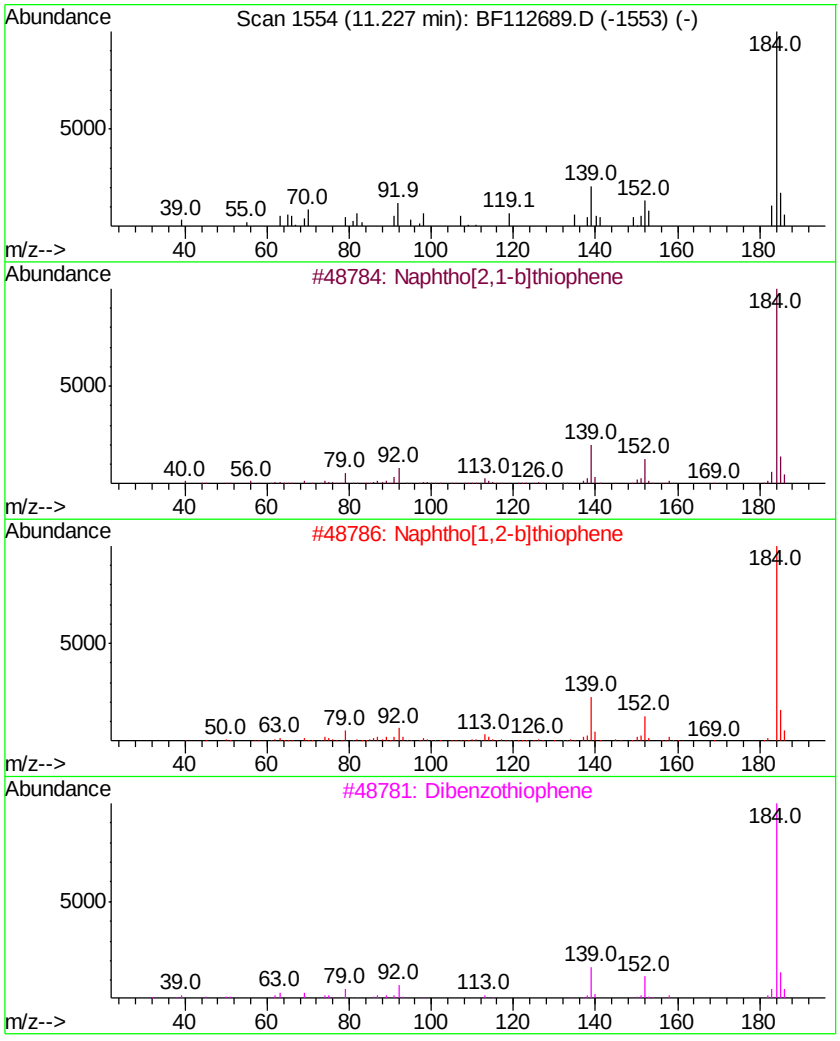
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

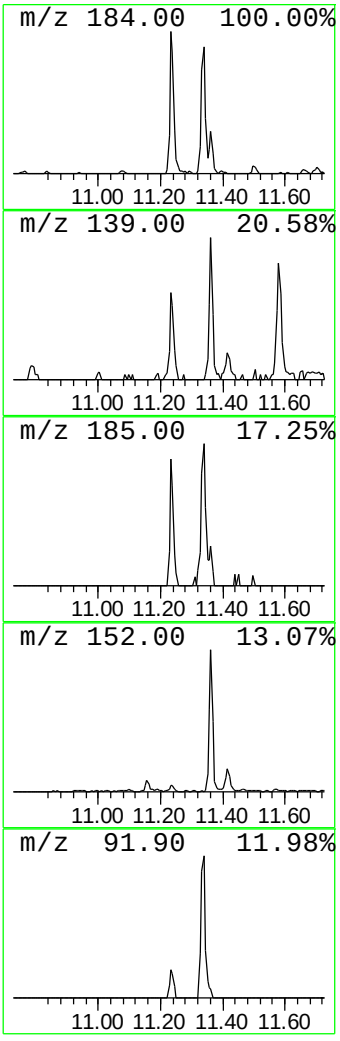
****

Peak Number 3 Naphtho[2,1-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	2.94 ng	60844	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

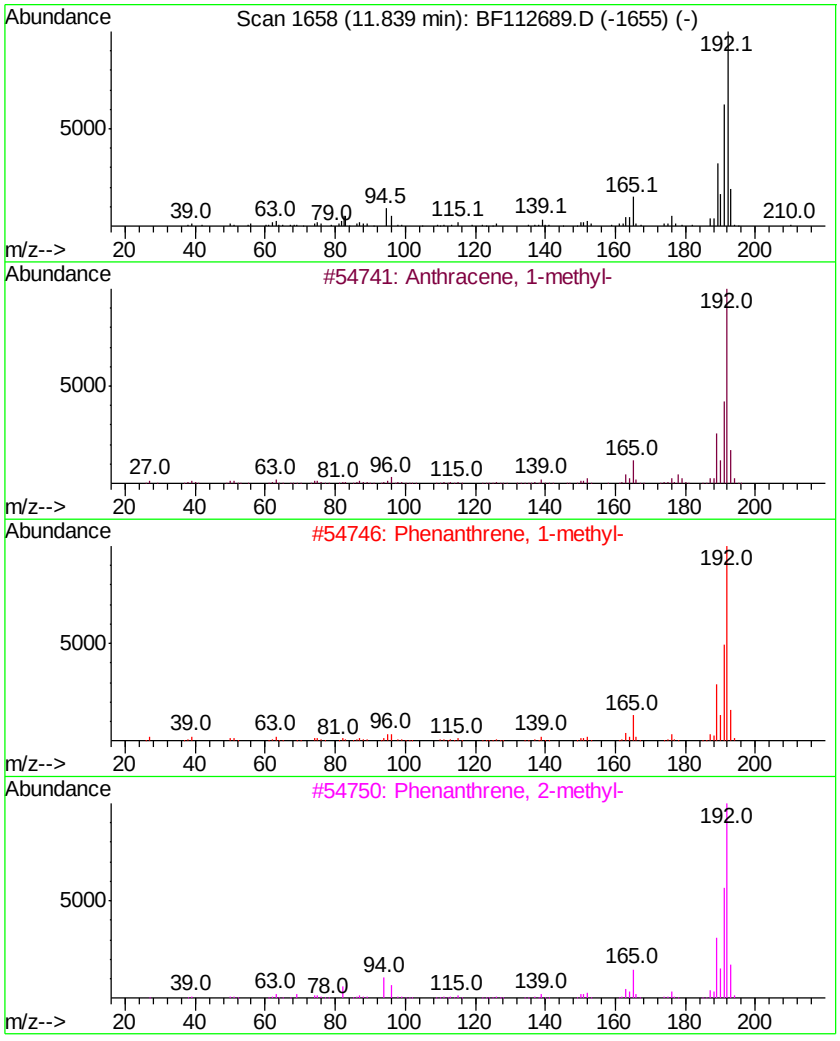
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

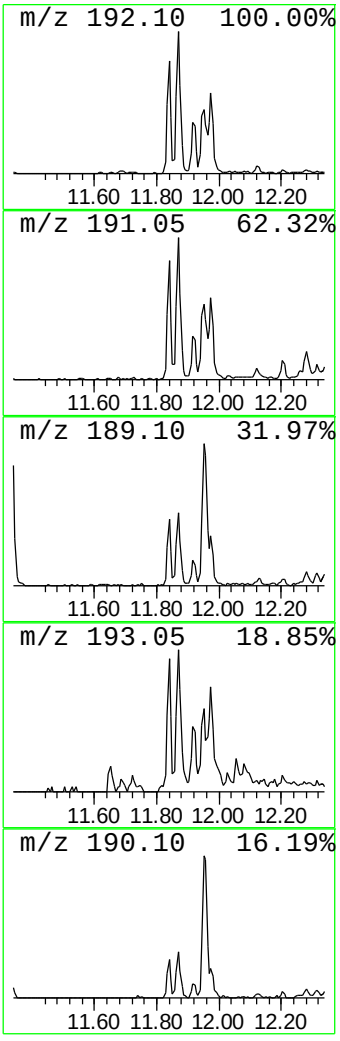
****

Peak Number 4 Anthracene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	6.57 ng	136025	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

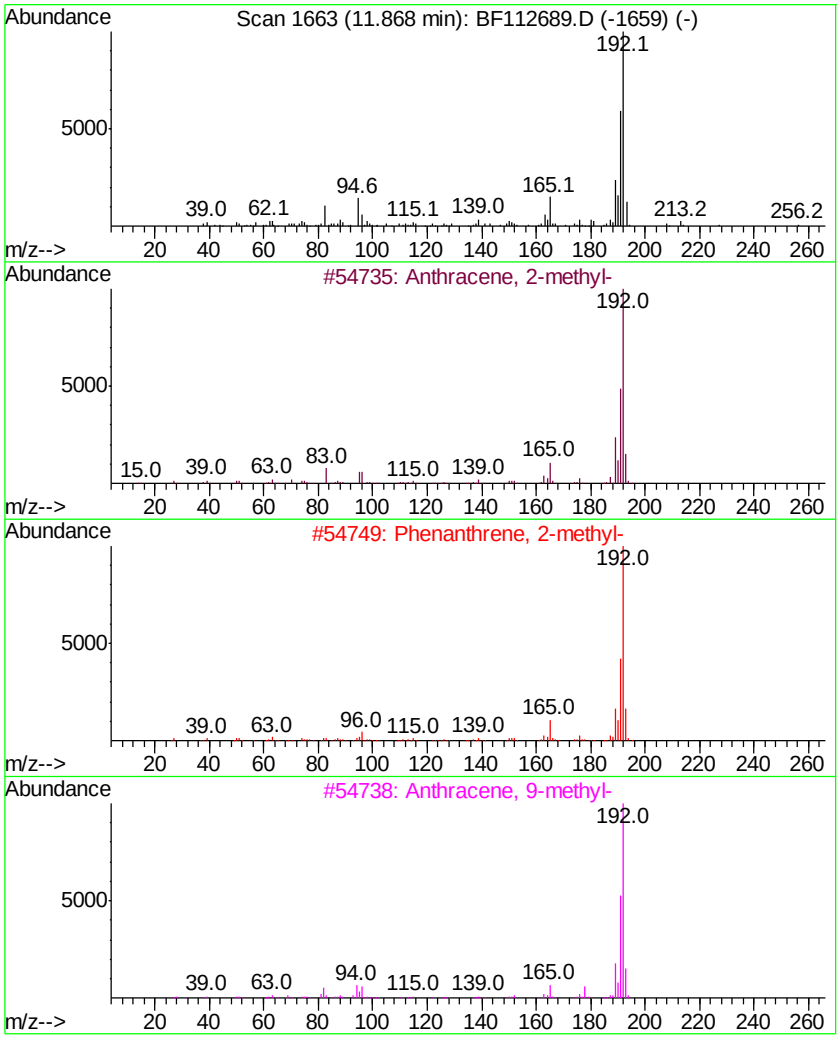
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

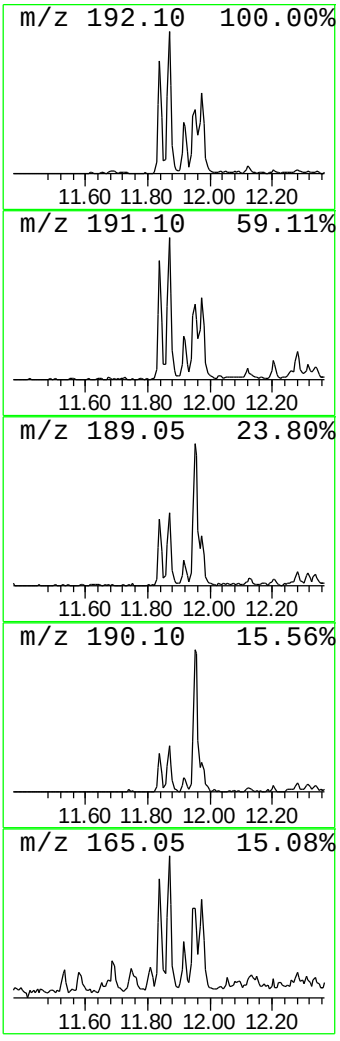
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	16.05 ng	332351	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	89
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	81





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

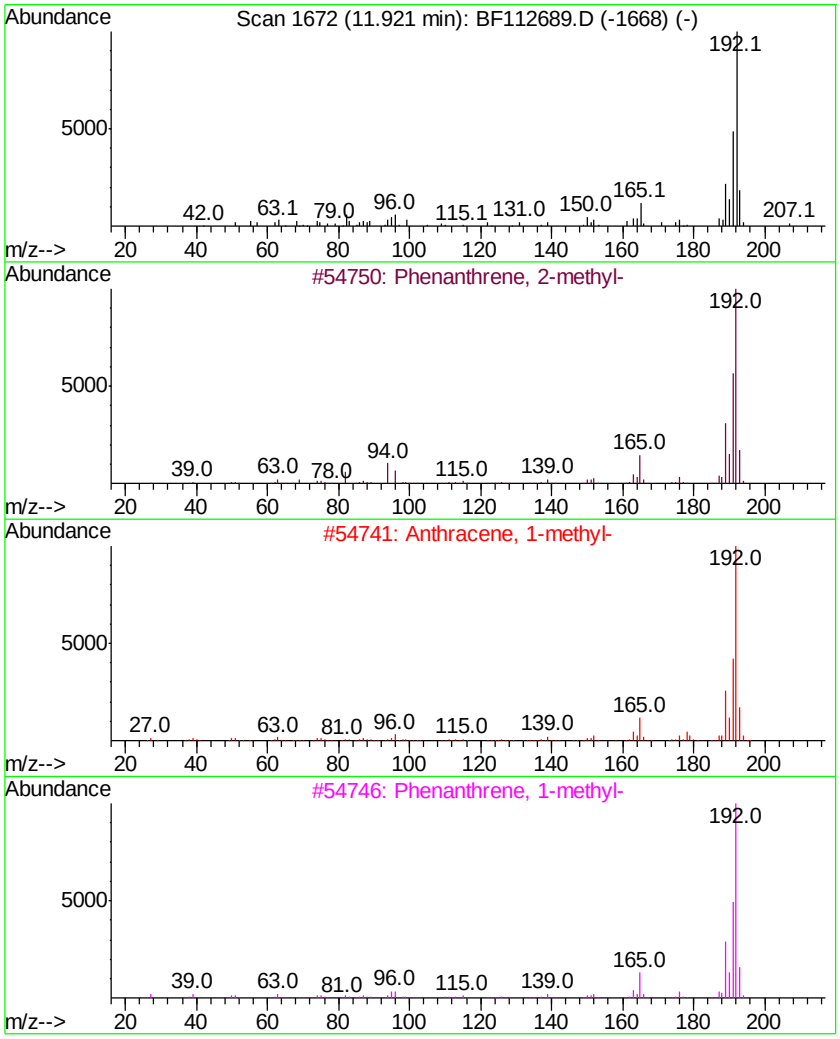
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

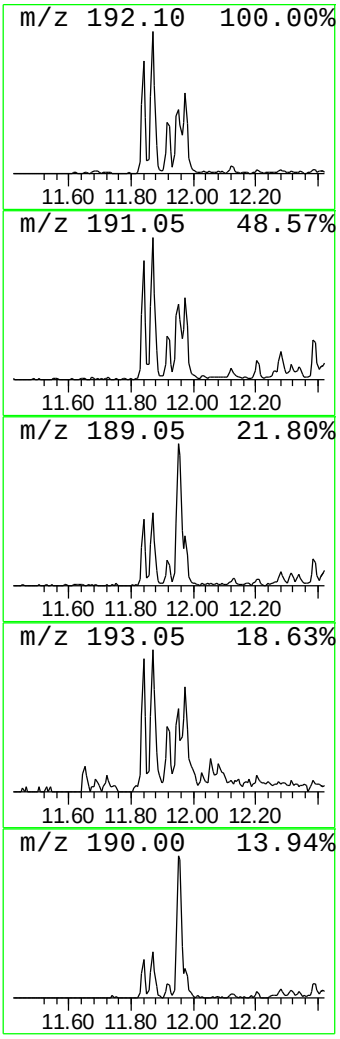
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	3.54 ng	73400	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

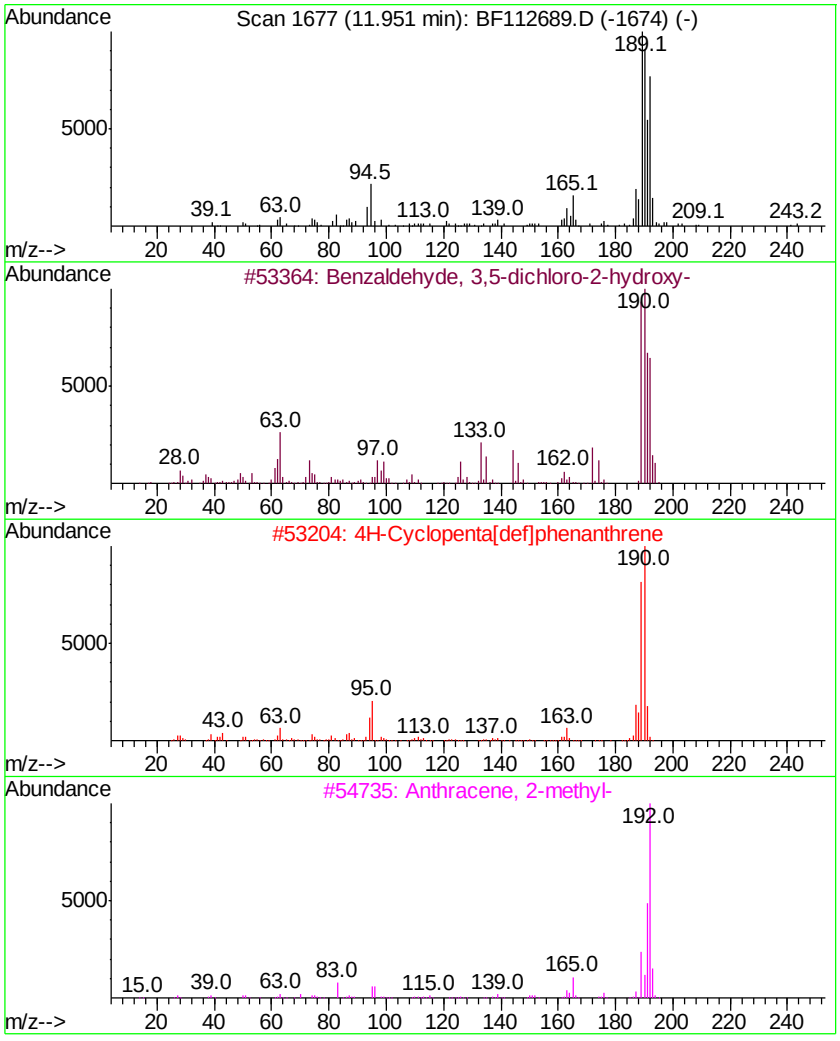
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

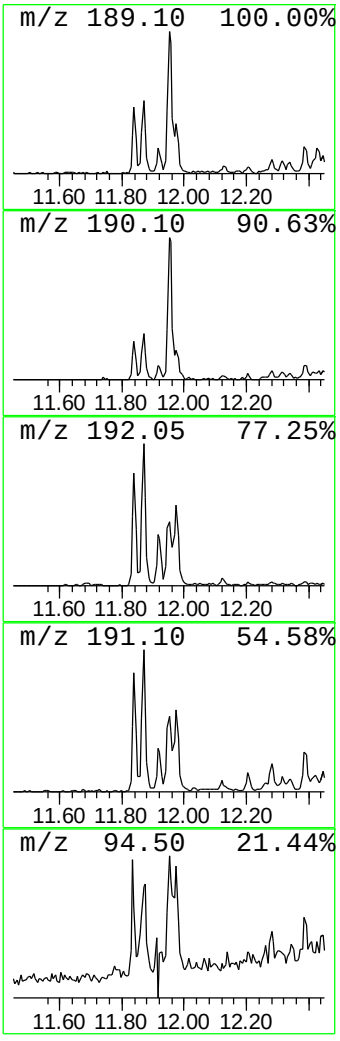
****

Peak Number 7 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	9.23 ng	191087	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	80
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	46
4	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	42
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

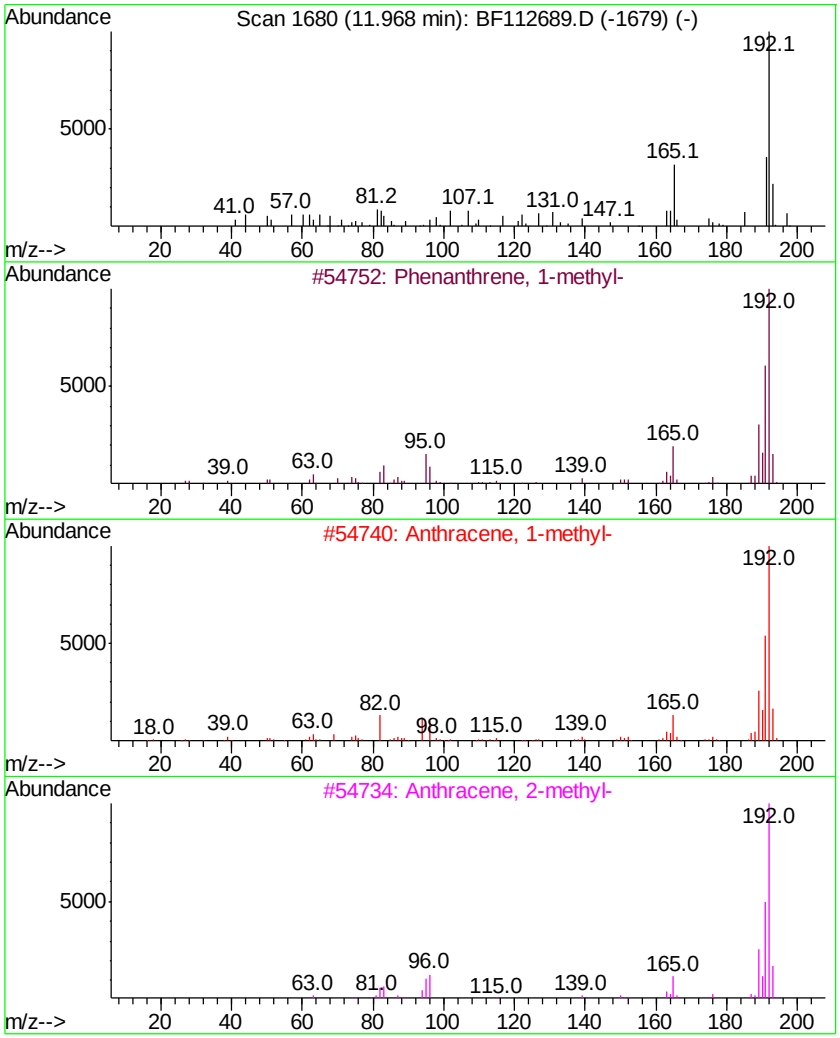
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

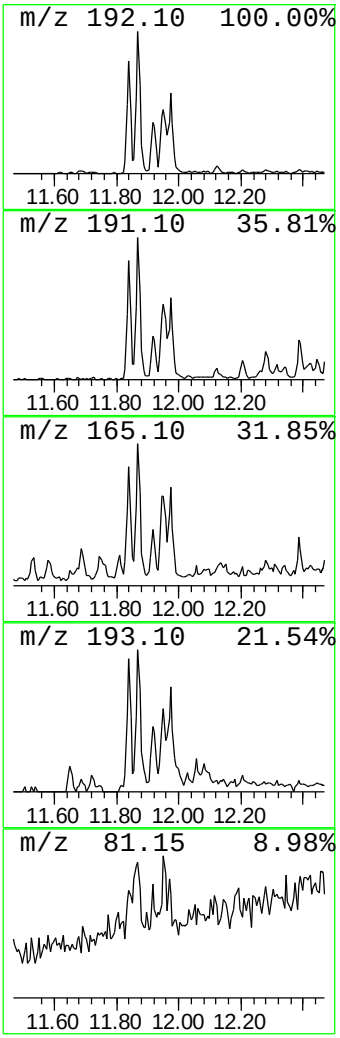
****

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	5.03 ng	104108	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	83
5	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

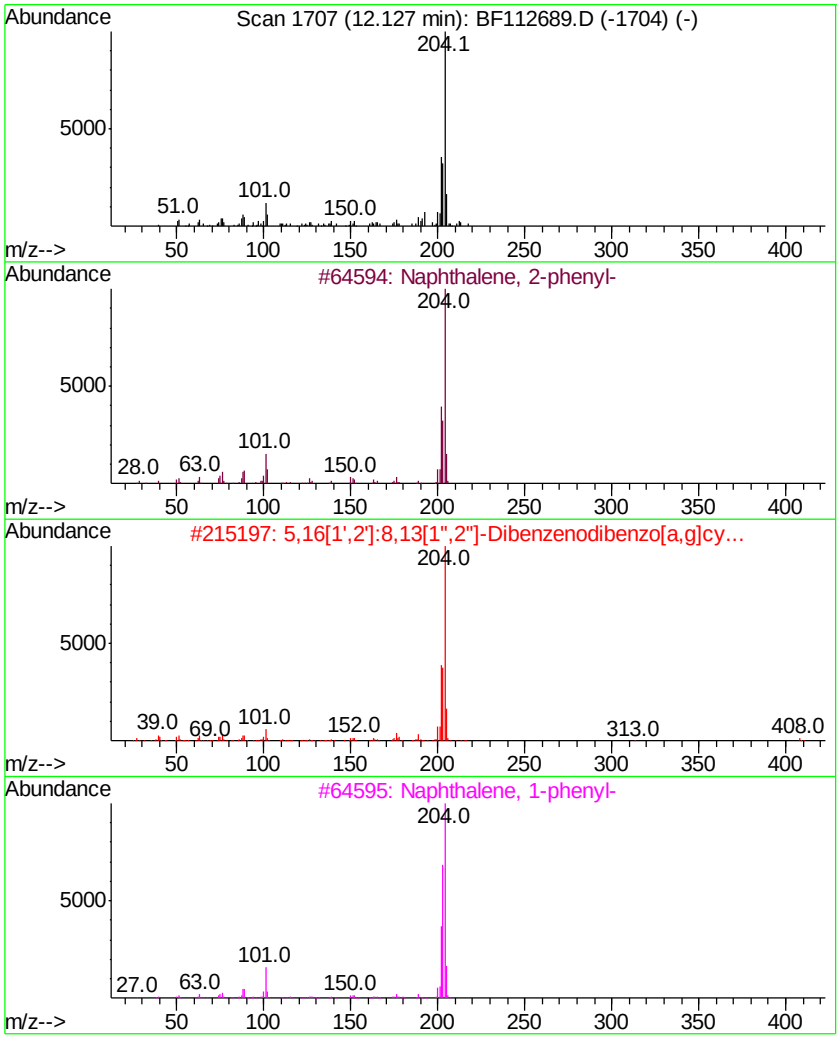
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

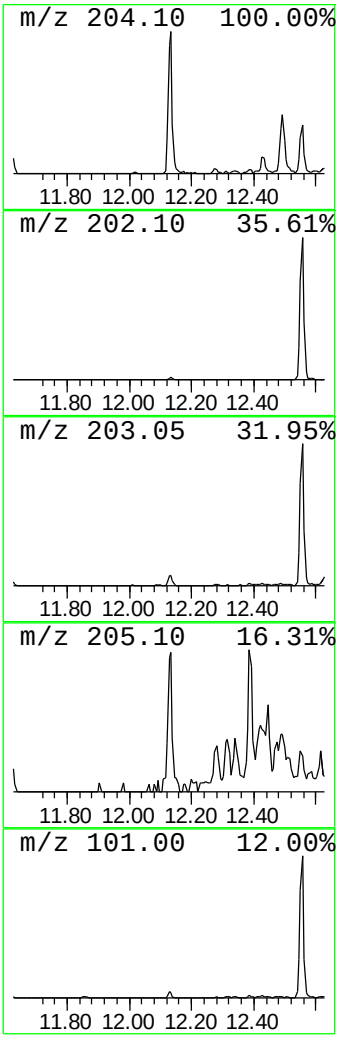
****

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	5.25 ng	108809	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

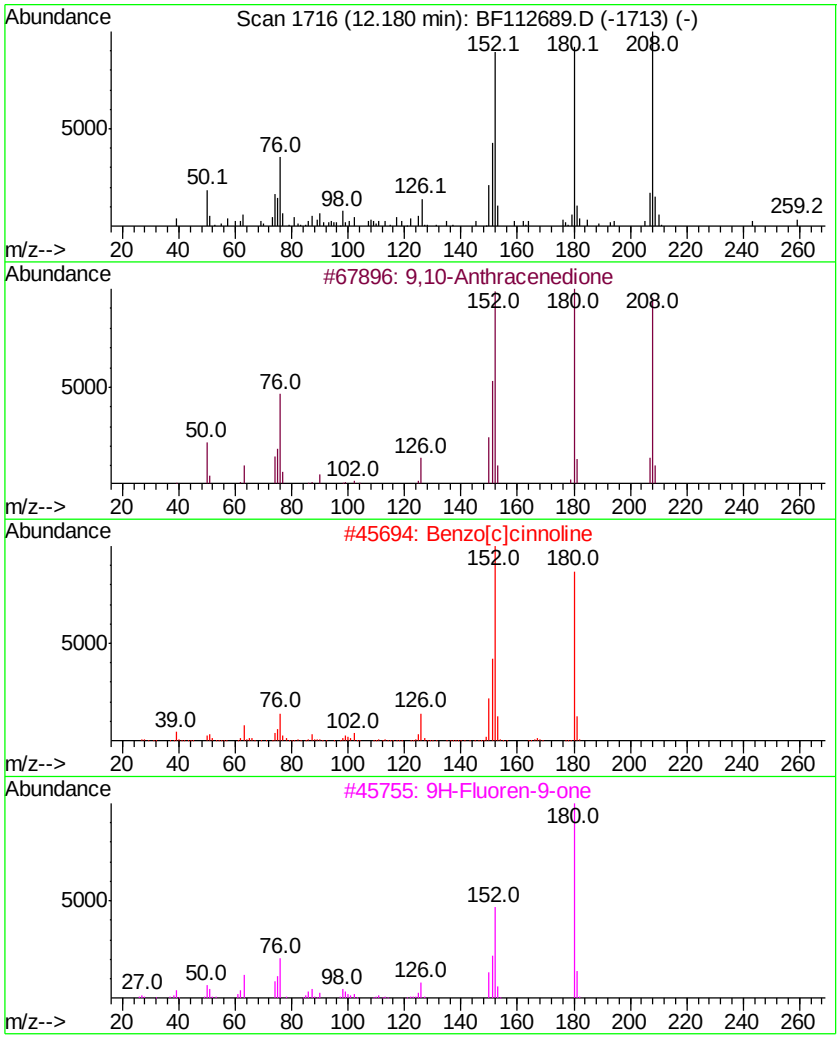
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

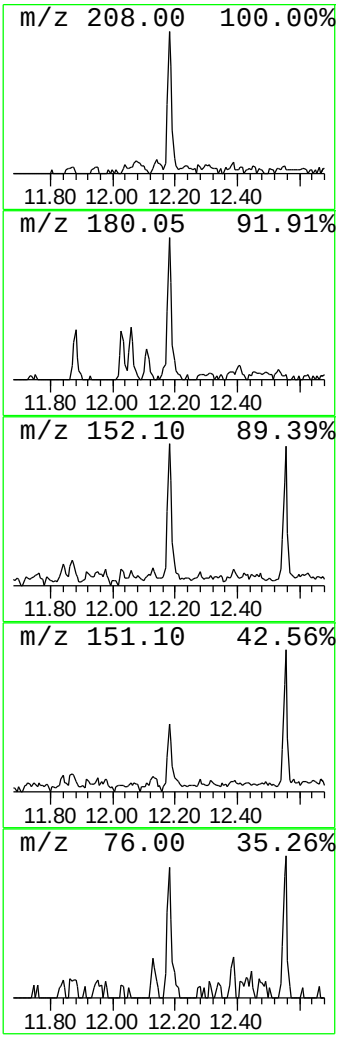
****

Peak Number 10 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.18	3.02 ng	62552	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	83
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	64
4	9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	64
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

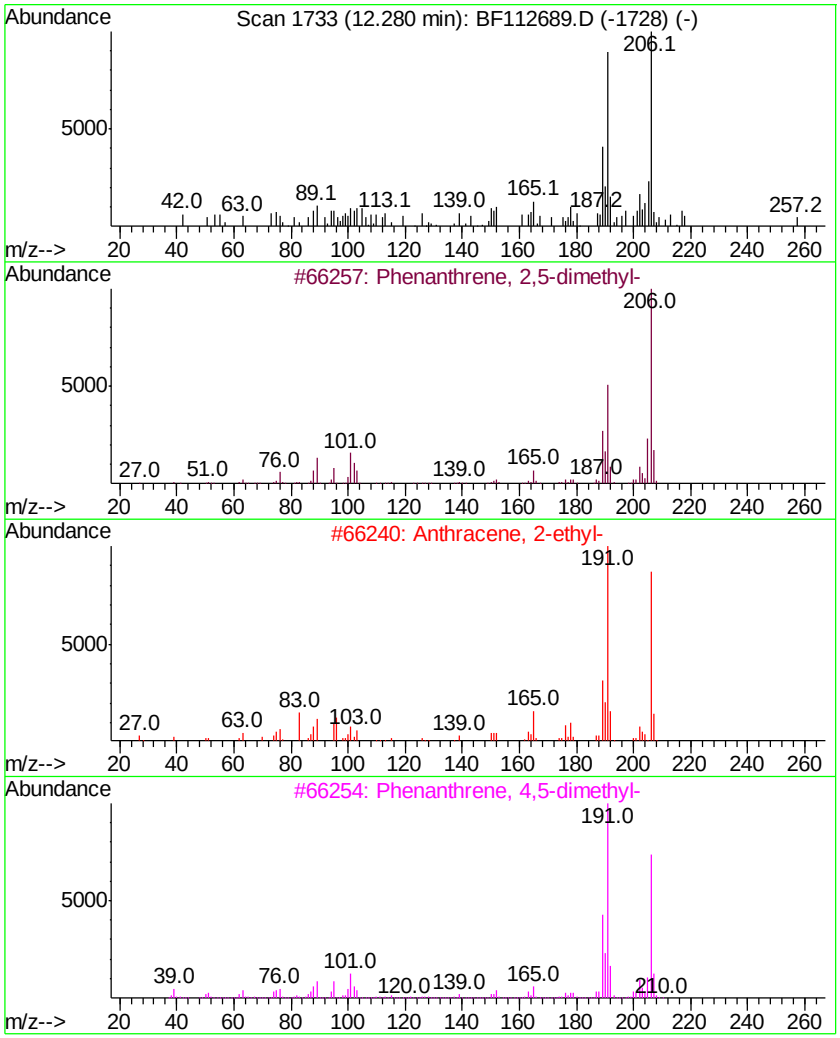
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

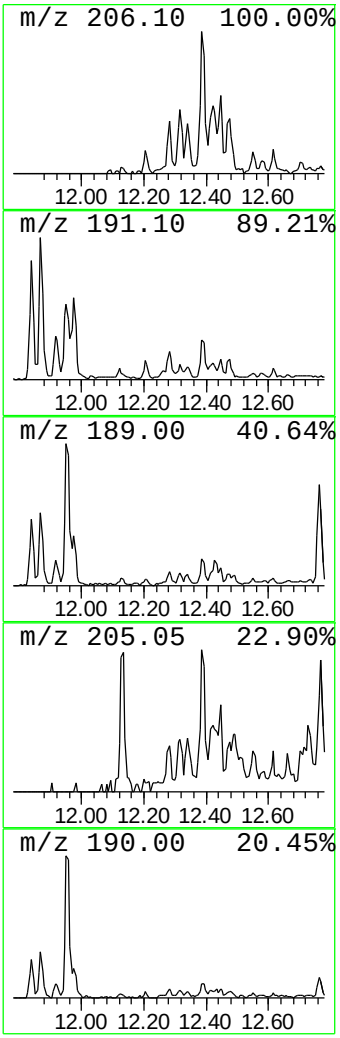
****

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	2.98 ng	61751	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
2	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89
3	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	83
5	Phenanthrene, 9,10-dimethyl-	206	C16H14	000604-83-1	83





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

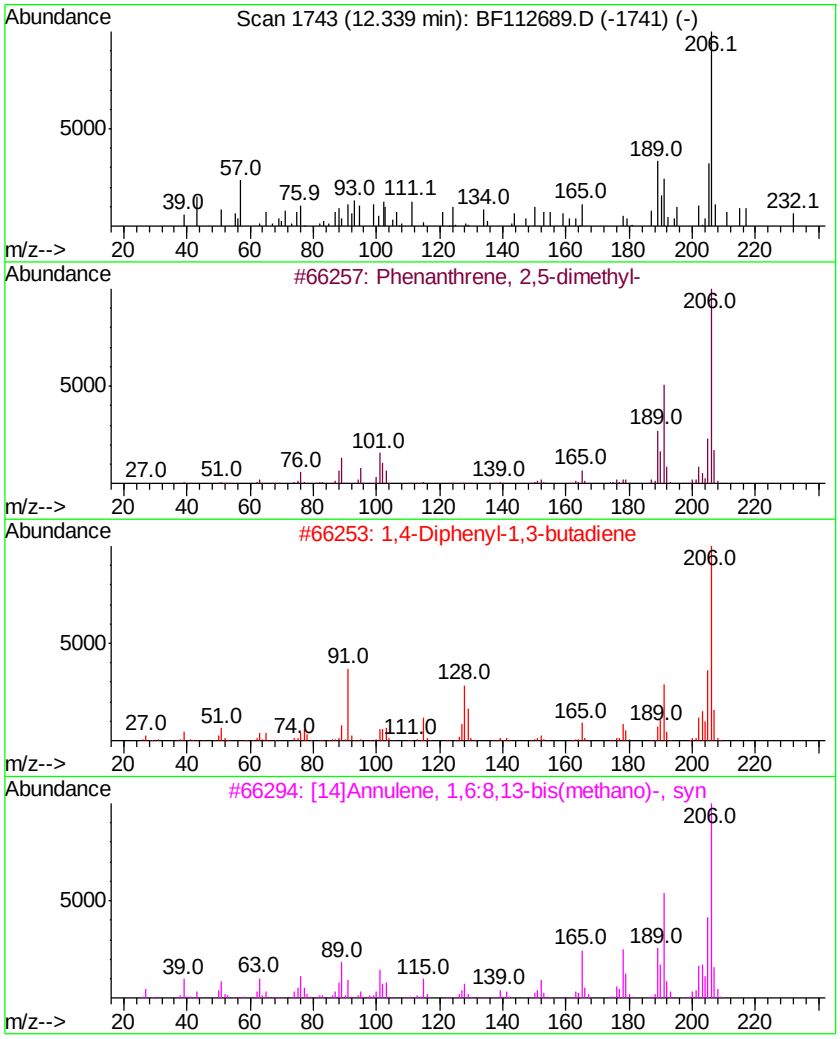
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

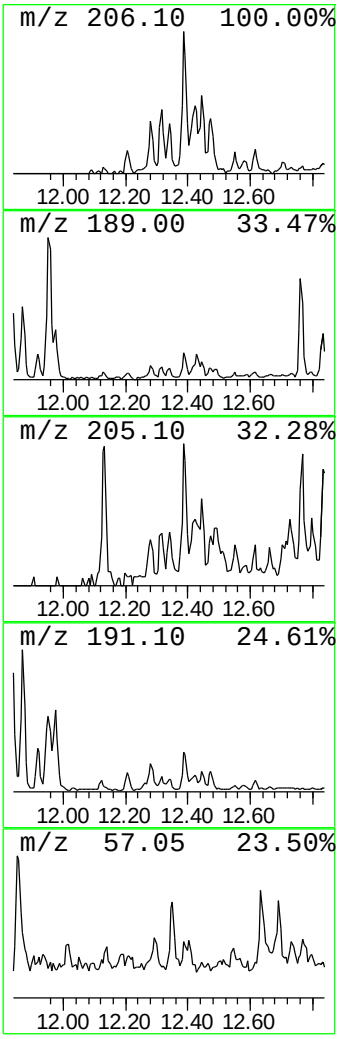
****

Peak Number 12 unknown12.34 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	2.13 ng	44159	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	42
2	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	42
3	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	42
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	41
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

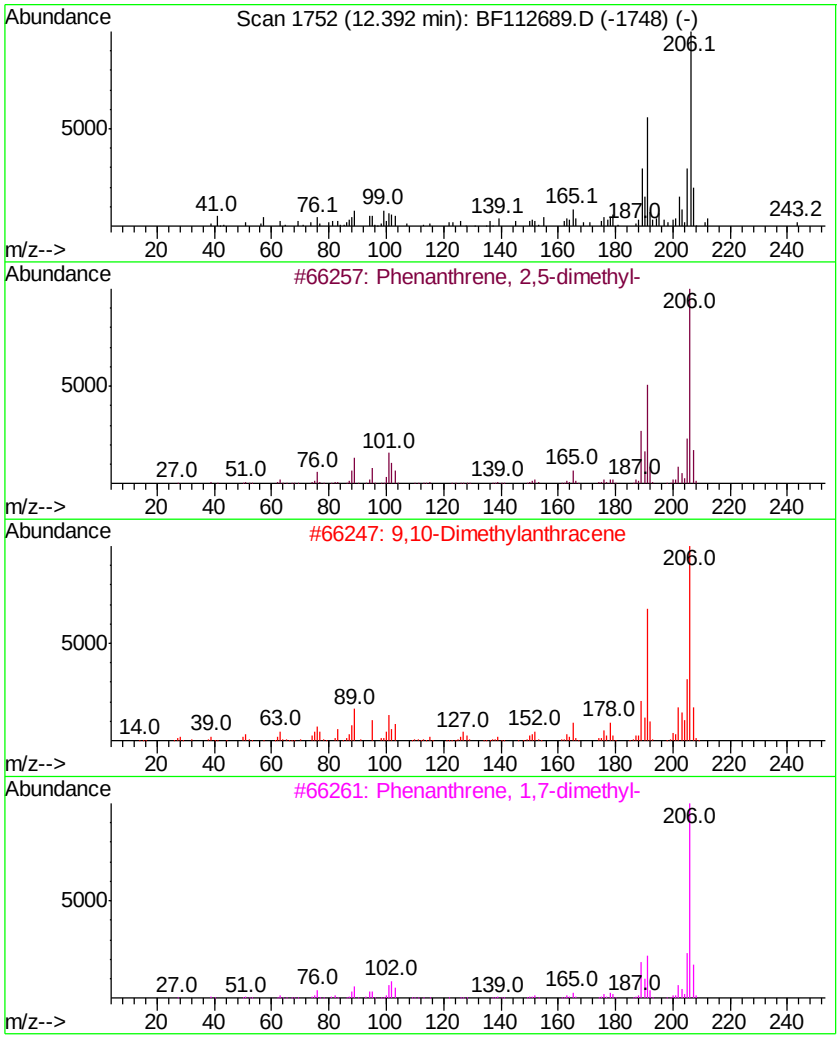
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

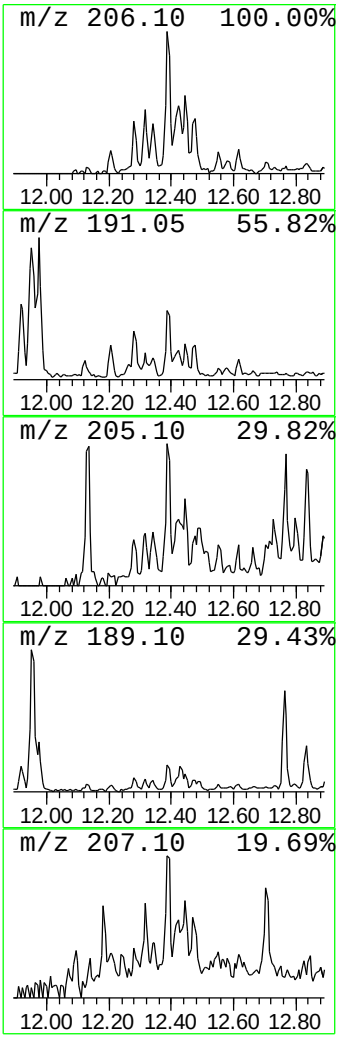
****

Peak Number 13 9,10-Dimethylanthracene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.39	4.21 ng	87298	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

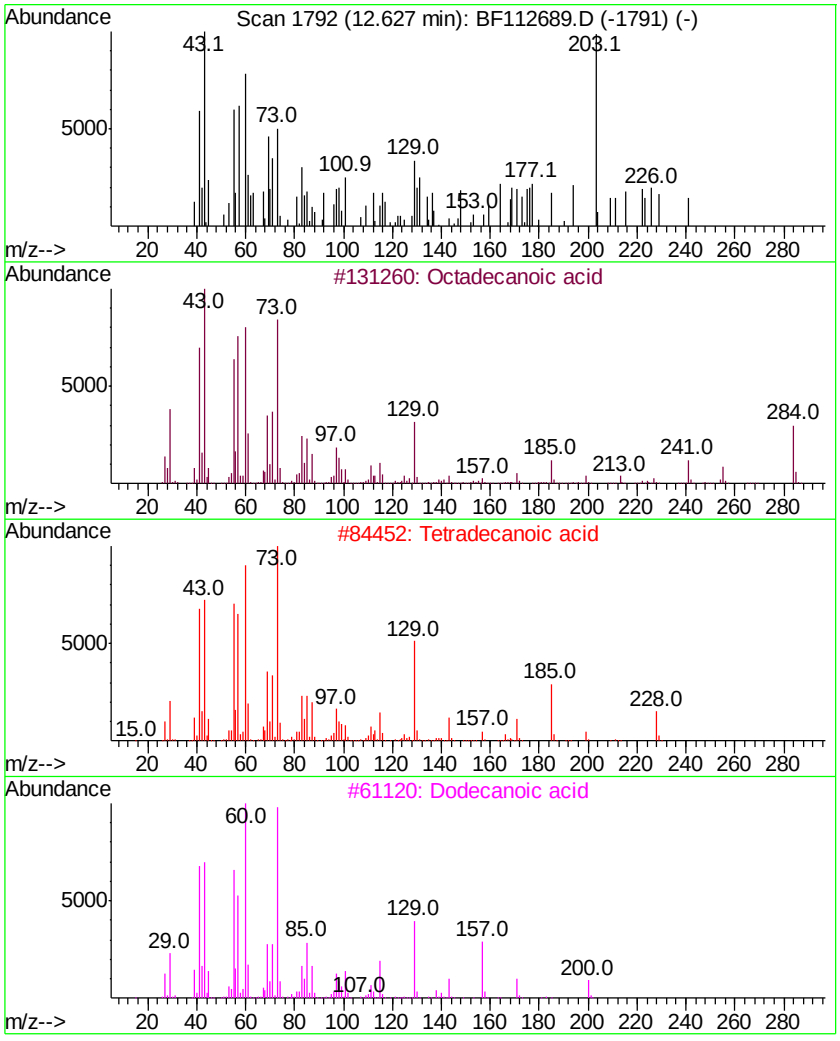
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

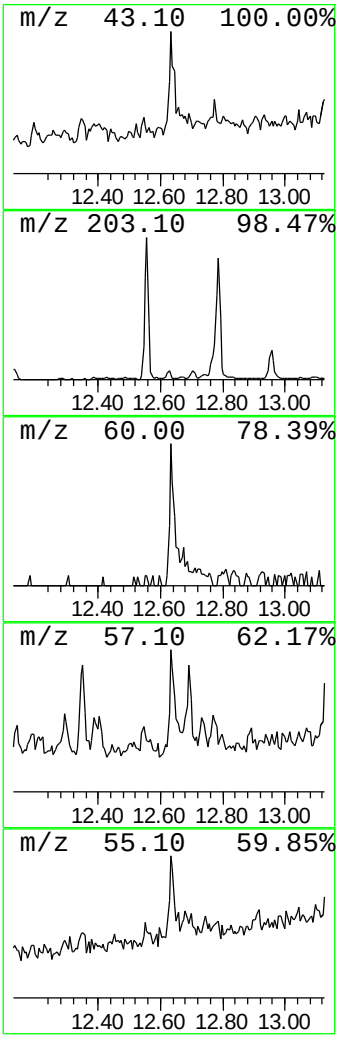
****

Peak Number 14 Octadecanoic acid Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	2.74 ng	56815	Phenanthrene-d10	11.34

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	91
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	58
3	Dodecanoic acid	200	C12H24O2	000143-07-7	52
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	50
5	Undecanoic acid	186	C11H22O2	000112-37-8	49





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

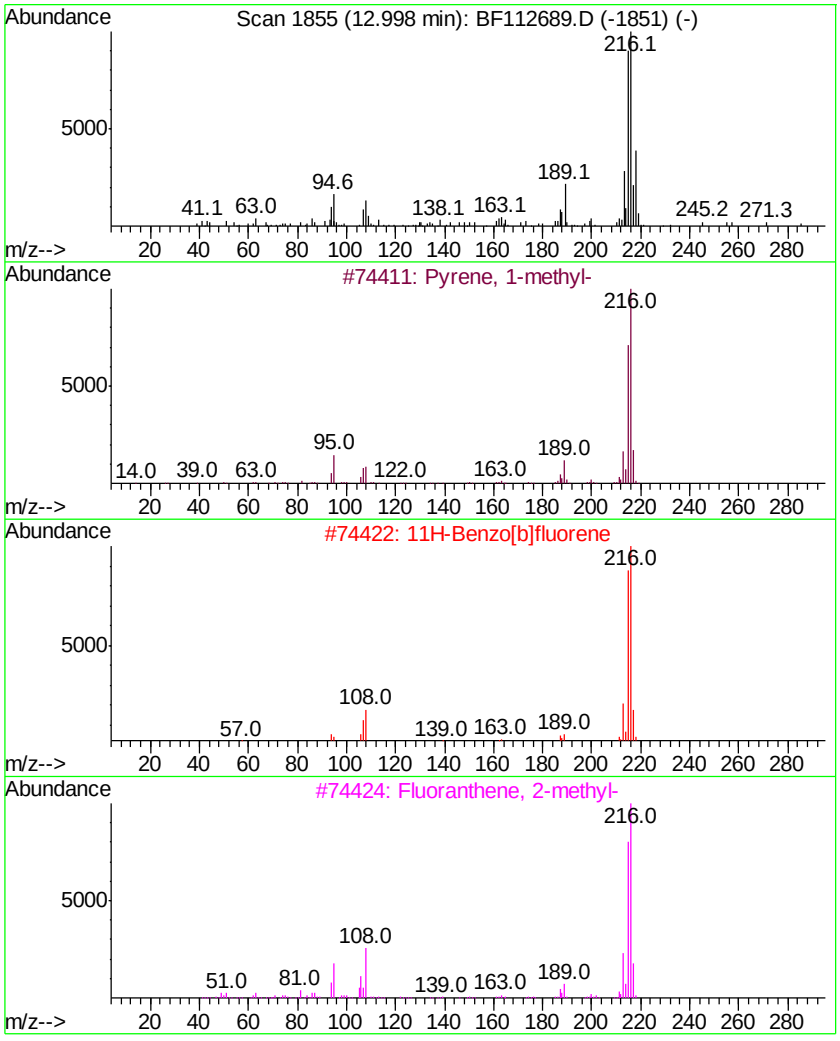
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

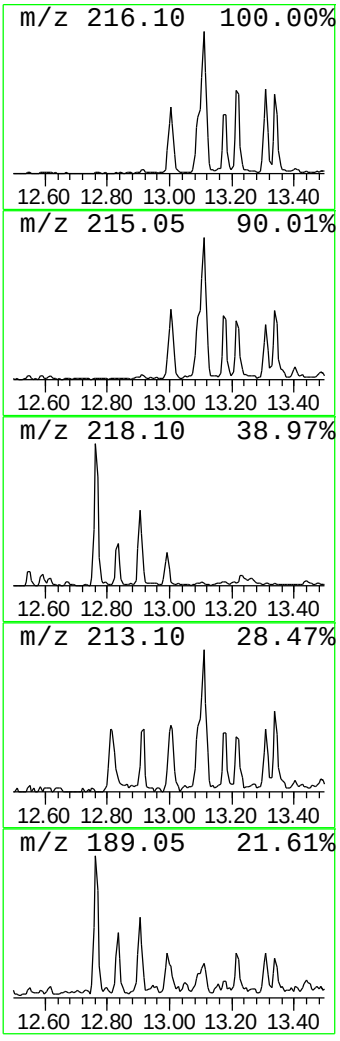
****

Peak Number 15 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	2.08 ng	162020	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

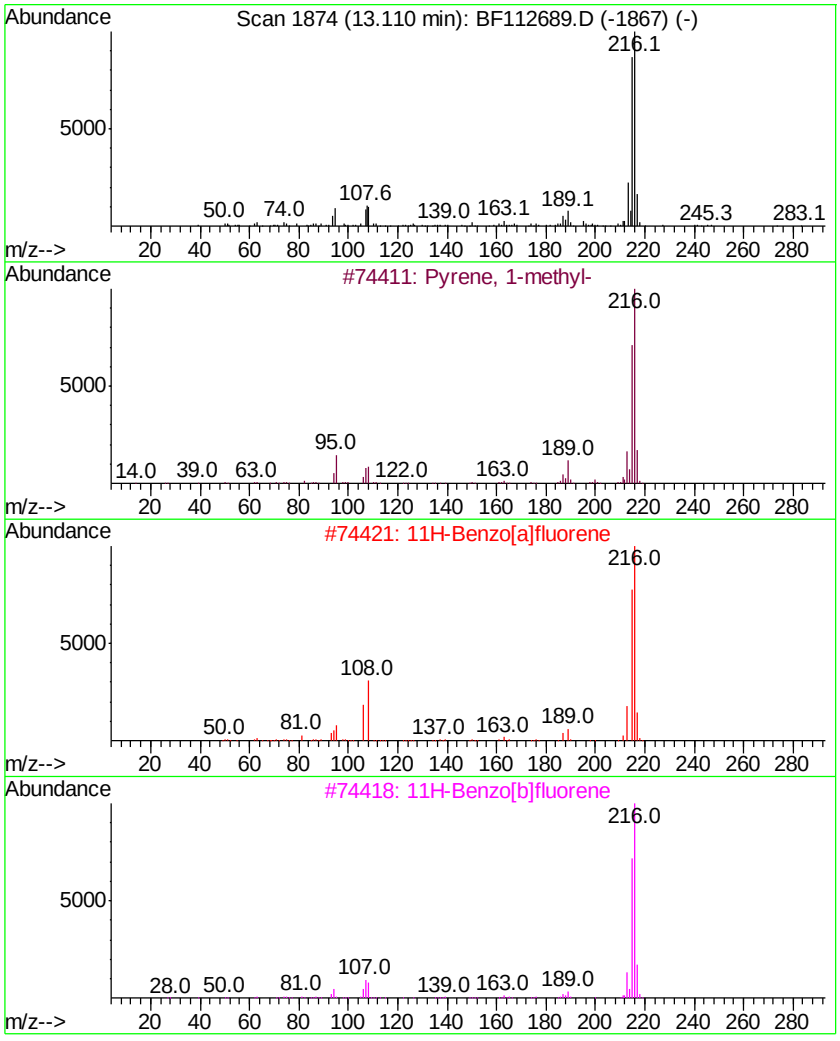
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

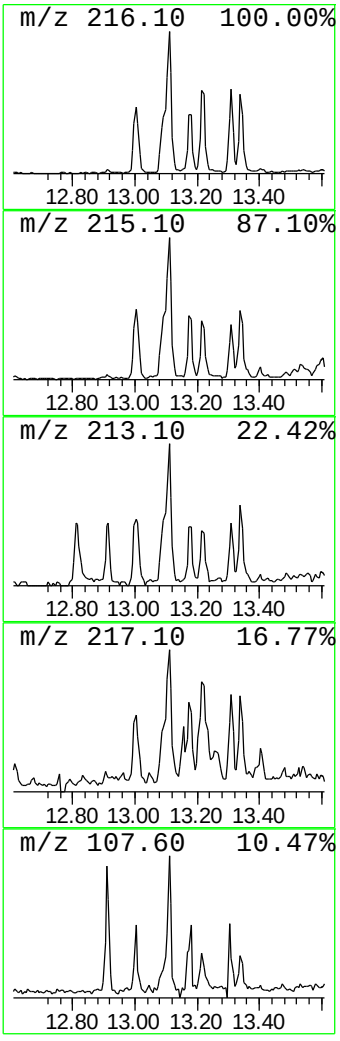
****

Peak Number 16 11H-Benzo[a]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.11	4.06 ng	316289	Chrysene-d12	13.98

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





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

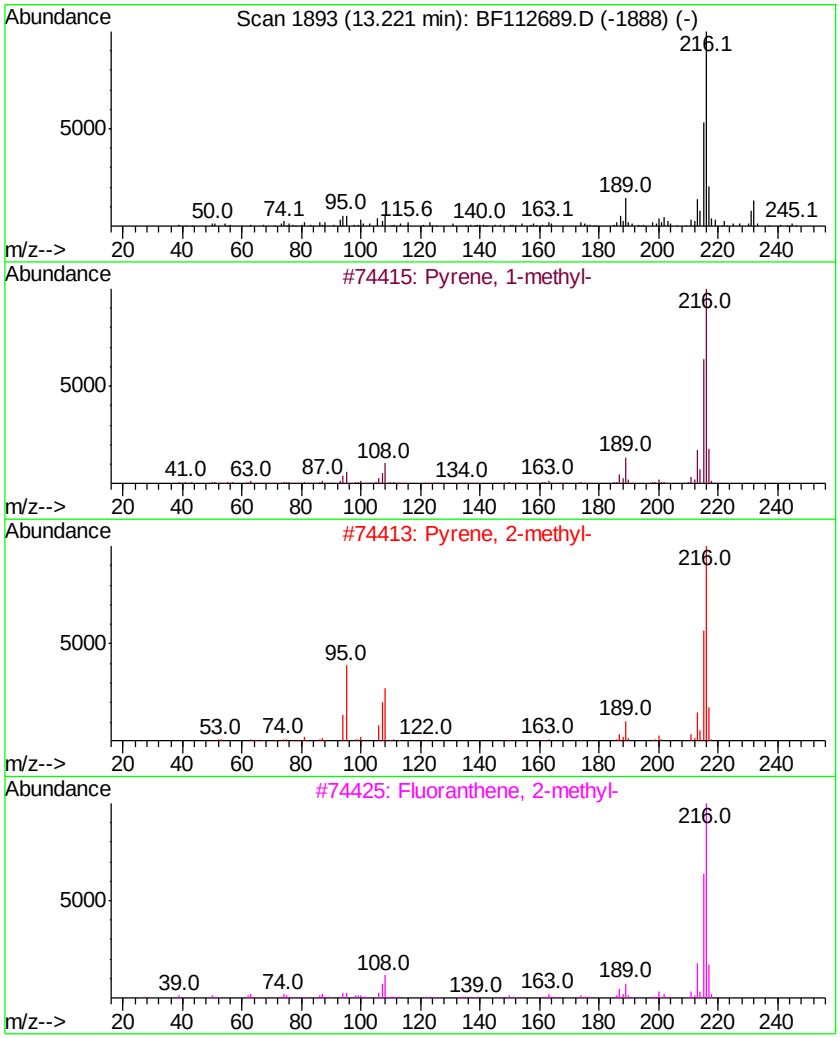
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

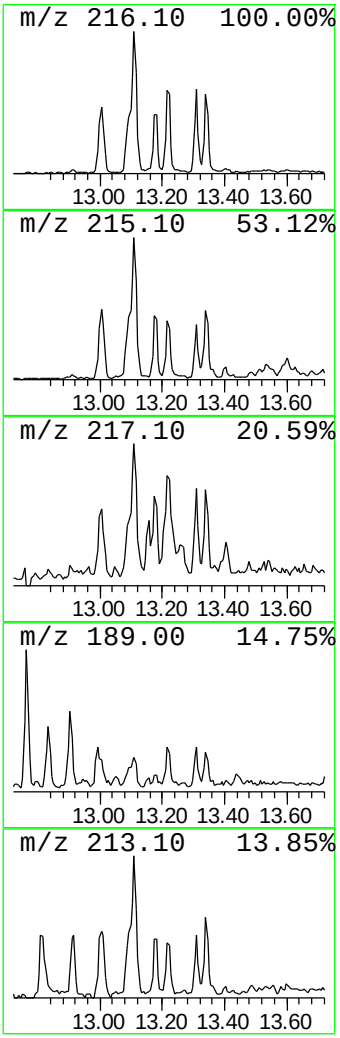
****

Peak Number 17 Pyrene, 2-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.22	2.35 ng	183109	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	86
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	68
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	64





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

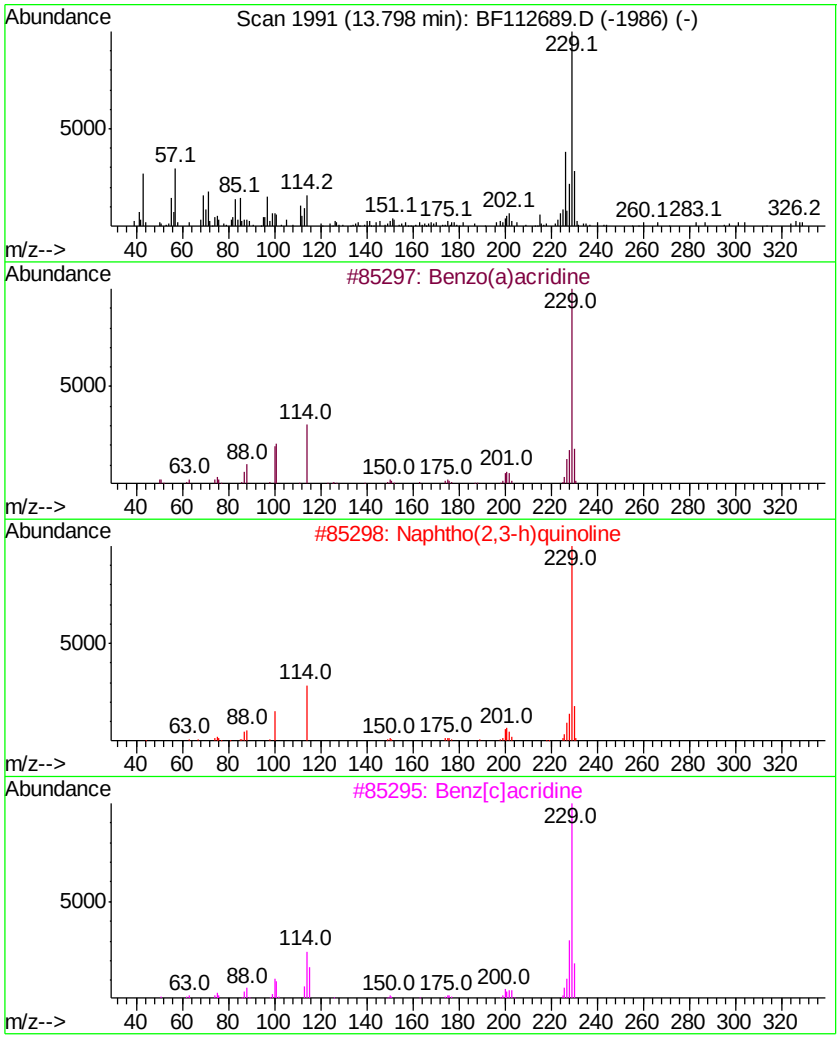
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

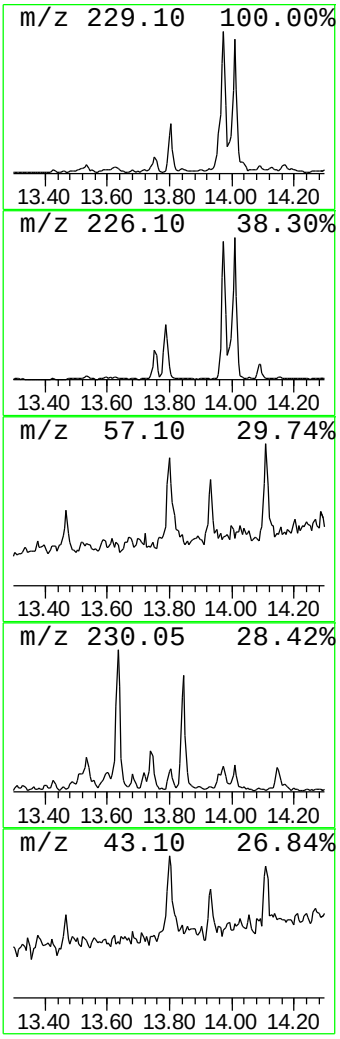
****

Peak Number 18 Benzo(a)acridine Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	3.49 ng	272098	Chrysene-d12	13.98

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)acridine	229	C17H11N	000225-11-6	74
2	Naphtho(2,3-h)quinoline	229	C17H11N	000084-56-0	52
3	Benz[c]acridine	229	C17H11N	000225-51-4	52
4	1-Naphthalenecarboxylic acid, 8-...	229	C14H15NO2	069674-55-1	50
5	Naphtho(2,1-f)quinoline	229	C17H11N	000218-08-6	50





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

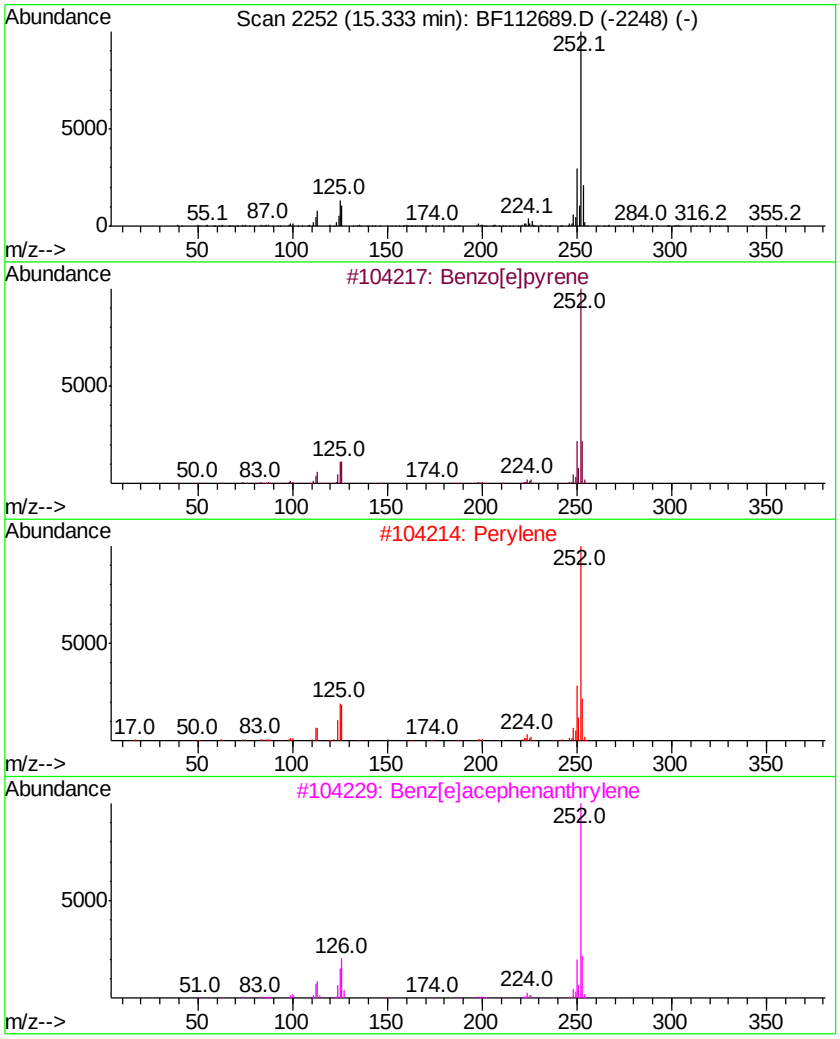
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

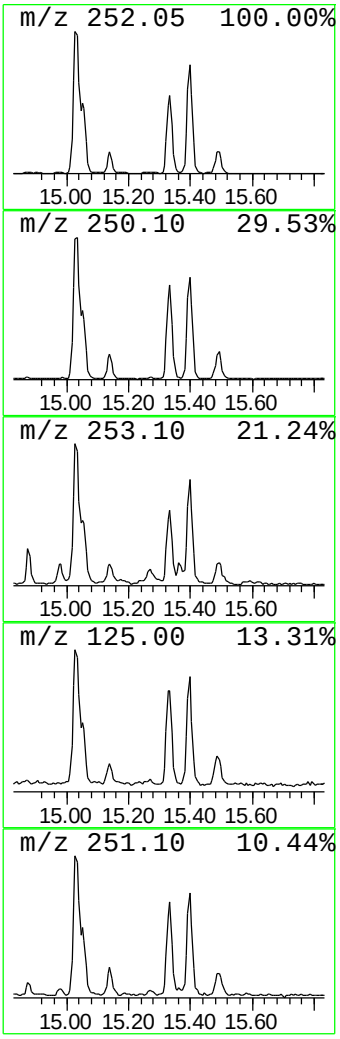
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	20.37 ng	403501	Perylene-d12	15.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	95
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF022519\
Data File : BF112689.D
Acq On : 25 Feb 2019 13:47
Operator : JU/SJ
Sample : K1595-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-CBF-B11

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF012519.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
unknown6.60	6.60	77.0	ng	1628910	1	6.82	423299	20.0
Naphtho[2,1-b]thi...	11.23	2.9	ng	60844	4	11.34	414272	20.0
Anthracene, 1-met...	11.84	6.6	ng	136025	4	11.34	414272	20.0
Anthracene, 2-met...	11.87	16.1	ng	332351	4	11.34	414272	20.0
Phenanthrene, 2-m...	11.92	3.5	ng	73400	4	11.34	414272	20.0
Benzaldehyde, 3,5...	11.95	9.2	ng	191087	4	11.34	414272	20.0
Phenanthrene, 1-m...	11.97	5.0	ng	104108	4	11.34	414272	20.0
Naphthalene, 2-ph...	12.13	5.3	ng	108809	4	11.34	414272	20.0
9,10-Anthracenedione	12.18	3.0	ng	62552	4	11.34	414272	20.0
Phenanthrene, 2,5...	12.28	3.0	ng	61751	4	11.34	414272	20.0
unknown12.34	12.34	2.1	ng	44159	4	11.34	414272	20.0
9,10-Dimethylanth...	12.39	4.2	ng	87298	4	11.34	414272	20.0
Octadecanoic acid	12.63	2.7	ng	56815	4	11.34	414272	20.0
Pyrene, 1-methyl-	13.00	2.1	ng	162020	5	13.98	1559210	20.0
11H-Benzo[a]fluorene	13.11	4.1	ng	316289	5	13.98	1559210	20.0
Pyrene, 2-methyl-	13.22	2.4	ng	183109	5	13.98	1559210	20.0
Benzo(a)acridine	13.80	3.5	ng	272098	5	13.98	1559210	20.0
Benzo[e]pyrene	15.33	20.4	ng	403501	6	15.46	396098	20.0