LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-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:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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	5.098	509	512	517	rBV	33173	33366	1.57%	0.140%
2	5.498	576	580	584	rBV	240283	193199	9.10%	0.809%
3	6.504	748	751	755	rBV	258834	201545	9.49%	0.844%
4	6.657	773	777	780	rVB	245432	207571	9.78%	0.869%
5	6.892	813	817	820	rVB	575771	440230	20.73%	1.843%
6	7.045	840	843	846	rBV	200699	152933	7.20%	0.640%
7	7.445	908	911	914	rVB	133196	107091	5.04%	0.448%
8	8.175	1031	1035	1037	rBV	690249	595129	28.03%	2.491%
9	8.198	1037	1039	1042	rVB	995626	698897	32.92%	2.925%
10	8.886	1152	1156	1159	rBV	537662	401258	18.90%	1.679%
11	8.986	1168	1173	1176	rVB	318532	245409	11.56%	1.027%
12	9.245	1213	1217	1220	rVB	284770	207761	9.79%	0.870%
13	9.345	1232	1234	1238	rVB	91449	68618	3.23%	0.287%
14	9.445	1248	1251	1255	rVB	46785	46430	2.19%	0.194%
15	9.516	1258	1263	1266	rBV	117317	152422	7.18%	0.638%
16	9.586	1271	1275	1277	rBV	171145	162056	7.63%	0.678%
17	9.610	1277	1279	1282	rVB	107687	81613	3.84%	0.342%
18	9.639	1282	1284	1289	rVB3	36753	34350	1.62%	0.144%
19	9.704	1292	1295	1297	rBV	82051	68107	3.21%	0.285%
20	9.786	1306	1309	1312	rVB	91607	75183	3.54%	0.315%
21	9.904	1327	1329	1331	rBV	45808	49408	2.33%	0.207%
22	9.927	1331	1333	1336	rVV2	582851	490944	23.12%	2.055%
23	9.963	1336	1339	1342	rVB	606034	448818	21.14%	1.879%
24	10.133	1364	1368	1371	rVV	491120	398642	18.78%	1.669%
25	10.169	1371	1374	1378	rVB	47692	36961	1.74%	0.155%
26	10.239	1383	1386	1389	rBV2	36025	36585	1.72%	0.153%
27	10.474	1423	1426	1430	rVB	730202	658028	30.99%	2.754%
28	10.563	1439	1441	1443	rVB	74361	54654	2.57%	0.229%
29	10.633	1450	1453	1457	rVB	162235	140707	6.63%	0.589%
30	10.710	1460	1466	1471	rVV2	234764	252930	11.91%	1.059%
31	11.022	1512	1519	1522	rBV2	112151	120057	5.65%	0.502%
32	11.051	1522	1524	1527	rVB2	45077	33303	1.57%	0.139%
33	11.104	1530	1533	1536	rVB2	43933	41230	1.94%	0.173%
34	11.151	1536	1541	1542	rBV2	36683	43195	2.03%	0.181%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-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:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.263	1556	1560	1564	rVV2	43604	54933	2.59%	0.230%
36	11.310	1565	1568	1574	rVB	153306	135415	6.38%	0.567%
37	11.416	1583	1586	1588	rBV	434520	432146	20.35%	1.809%
38	11.445	1588	1591	1594	rVV	2240489	2123250	100.00%	8.887%
39	11.492	1596	1599	1602	rVV	771534	645276	30.39%	2.701%
40	11.521	1602	1604	1607	rVB2	38241	35531	1.67%	0.149%
41	11.645	1618	1625	1627	rBV2	205787	209199	9.85%	0.876%
42	11.710	1631	1636	1639	rVV3	44398	47601	2.24%	0.199%
43	11.916	1668	1671	1673	rBV	227908	184449	8.69%	0.772%
44	11.945	1673	1676	1680	rVB	327658	268788	12.66%	1.125%
45	11.992	1680	1684	1687	rBV	144325	124808	5.88%	0.522%
46	12.033	1687	1691	1693	rBV	430113	429860	20.25%	1.799%
47	12.210	1718	1721	1724	rBV	165827	136975	6.45%	0.573%
48	12.392	1749	1752	1754	rBV	39223	35002	1.65%	0.147%
49	12.463	1761	1764	1767	rBV	85514	95997	4.52%	0.402%
50	12.504	1767	1771	1773	rVV3	60218	71048	3.35%	0.297%
51	12.551	1776	1779	1785	rVB3	45752	63640	3.00%	0.266%
52	12.633	1789	1793	1797	rBV	1844048	1852736	87.26%	7.755%
53	12.692	1801	1803	1806	rVB2	47646	37590	1.77%	0.157%
54	12.780	1815	1818	1821	rVB2	54201	48984	2.31%	0.205%
55	12.863	1825	1832	1837	rBV2	1472777	1892472	89.13%	7.921%
56	12.904	1837	1839	1844	rVB2	86790	89942	4.24%	0.376%
57	12.974	1844	1851	1853	rBV	117597	140700	6.63%	0.589%
58	12.992	1853	1854	1856	rVV	158571	131242	6.18%	0.549%
59	13.015	1856	1858	1862	rVB	91252	79470	3.74%	0.333%
60	13.068	1862	1867	1871	rBV3	105633	185059	8.72%	0.775%
61	13.104	1871	1873	1876	rVB	54159	44571	2.10%	0.187%
62	13.163	1876	1883	1884	rBV3	78494	117439	5.53%	0.492%
63	13.186	1884	1887	1890	rVB	364416	326964	15.40%	1.369%
64	13.251	1894	1898	1901	rBV	384986	330094	15.55%	1.382%
65	13.286	1901	1904	1907	rVV2	148835	175601	8.27%	0.735%
66	13.315	1907	1909	1912	rVB	51932	39952	1.88%	0.167%
67	13.345	1912	1914	1917	rBV2	38484	34503	1.63%	0.144%
68	13.380	1917	1920	1923	rVB	59685	51926	2.45%	0.217%
69	13.410	1923	1925	1929	rBV2	73666	75166	3.54%	0.315%
70	13.586	1953	1955	1957	rVV2	47905	50044	2.36%	0.209%
71	13.604	1957	1958	1962	rVB	40749	33442	1.58%	0.140%

LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-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:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.663	1965	1968	1970	rBV	65010	71126	3.35%	0.298%
73	13.692	1971	1973	1977	rVB3	49371	64526	3.04%	0.270%
74	13.804	1988	1992	1995	rBV	119345	138416	6.52%	0.579%
75	13.833	1995	1997	1999	rVV	144065	123853	5.83%	0.518%
76	13.857	1999	2001	2005	rVV2	110762	154869	7.29%	0.648%
77	13.898	2005	2008	2013	rVB2	54643	66920	3.15%	0.280%
78	13.974	2016	2021	2026	rBV	37155	63361	2.98%	0.265%
79	14.051	2026	2034	2037	rBV3	1000890	1385563	65.26%	5.799%
80	14.086	2037	2040	2046	rVB	659454	646545	30.45%	2.706%
81	14.162	2050	2053	2056	rVV	189351	158705	7.47%	0.664%
82	14.198	2057	2059	2064	rVV3	44357	57852	2.72%	0.242%
83	14.245	2064	2067	2069	rVB	65411	66197	3.12%	0.277%
84	14.274	2069	2072	2076	rBV2	88741	114044	5.37%	0.477%
85	14.374	2086	2089	2092	rBV2	36568	46585	2.19%	0.195%
86	14.404	2092	2094	2096	rVV	50645	47763	2.25%	0.200%
87	14.439	2096	2100	2103	rVV	138471	161508	7.61%	0.676%
88	14.474	2103	2106	2108	rVV2	71561	67781	3.19%	0.284%
89	14.539	2110	2117	2119	rVV2	83941	131638	6.20%	0.551%
90	14.562	2119	2121	2123	rVV	80415	80635	3.80%	0.337%
91	14.586	2123	2125	2129	rVV2	110965	121321	5.71%	0.508%
92	14.633	2129	2133	2139	rVB4	51880	95327	4.49%	0.399%
93	15.104	2208	2213	2216	rBV	391367	604144	28.45%	2.529%
94	15.209	2228	2231	2235	rVB	93404	104633	4.93%	0.438%
95	15.409	2261	2265	2271	rVB	210162	269150	12.68%	1.127%
96	15.474	2271	2276	2282	rBV	337518	419750	19.77%	1.757%
97	15.539	2282	2287	2290	rVV	238906	319146	15.03%	1.336%
98	15.568	2290	2292	2299	rVB2	96802	122547	5.77%	0.513%
99	17.027	2534	2540	2547	rBV	122032	232648	10.96%	0.974%
100	17.474	2612	2616	2623	rBV	76393	144962	6.83%	0.607%

Sum of corrected areas: 23891960

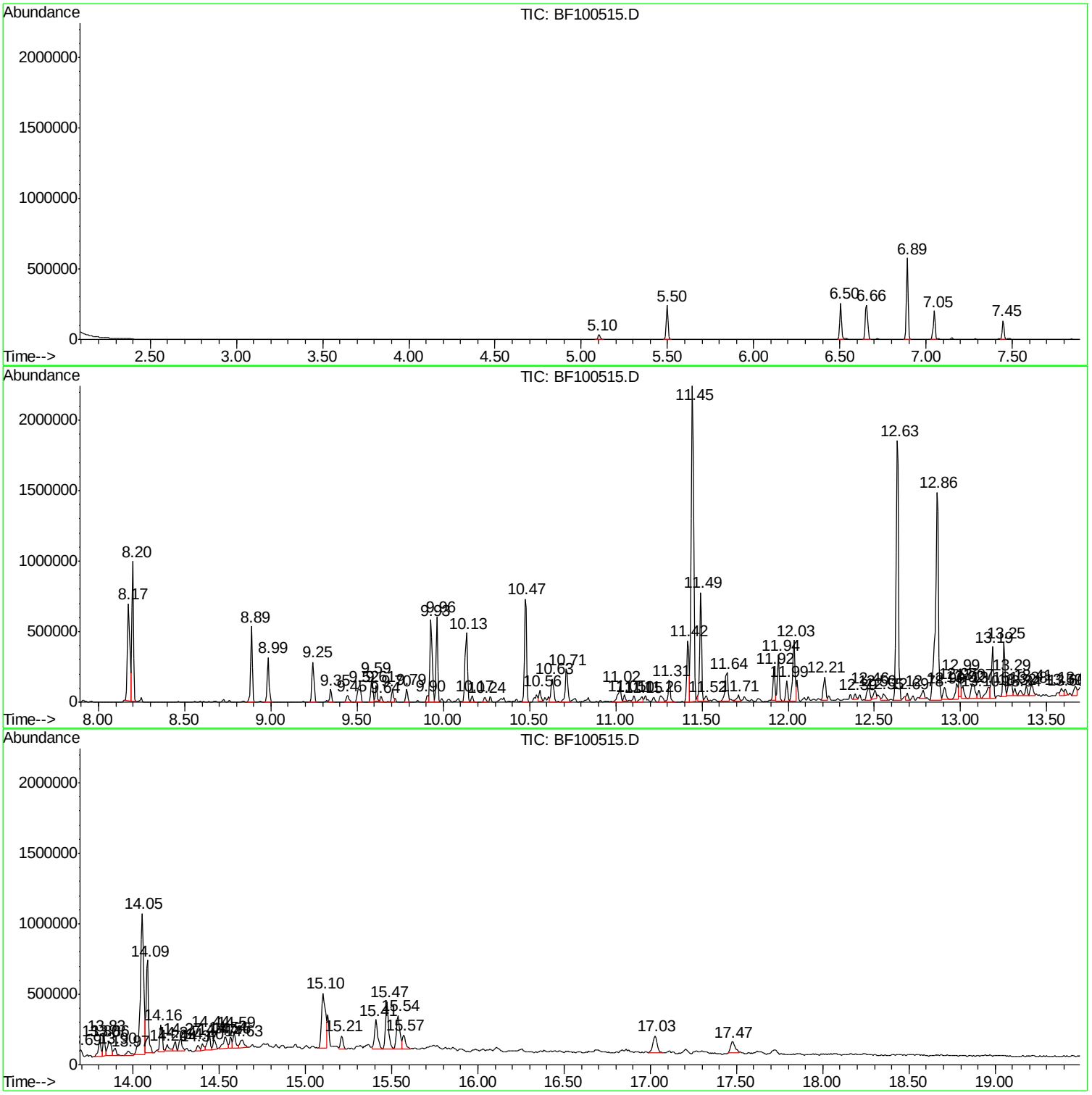
LSC Report - Integrated Chromatogram

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

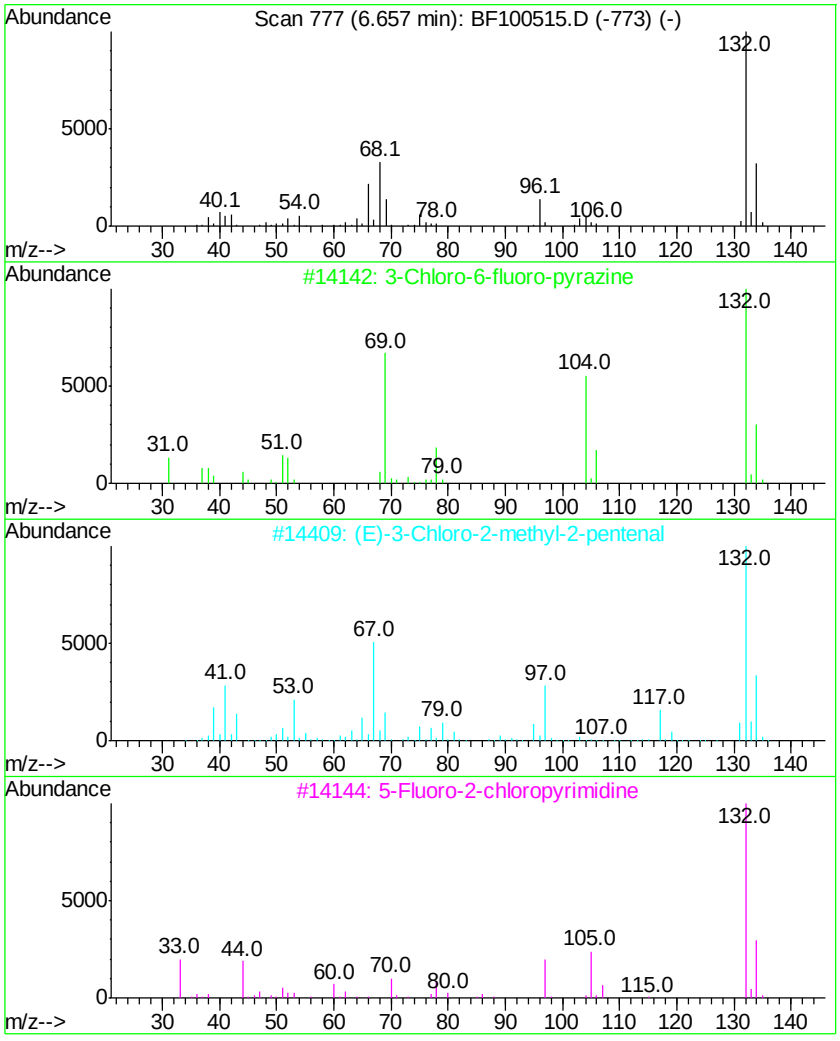
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

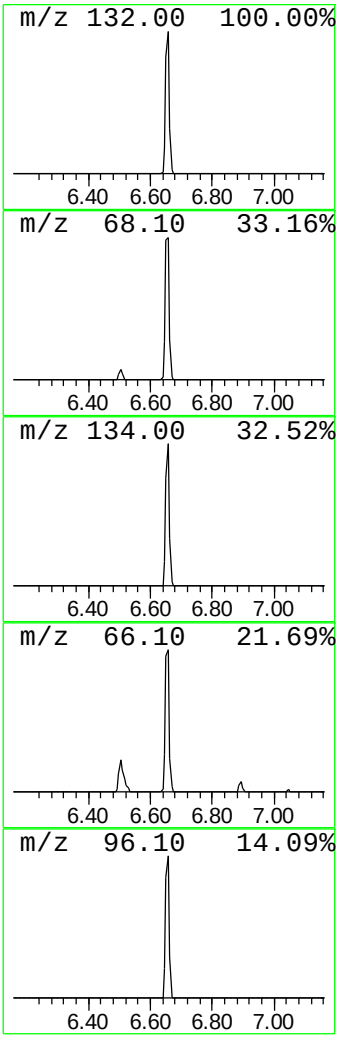
****

Peak Number 1 unknown6.66 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	9.43 ng	207571	1,4-Dichlorobenzene-d4	6.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

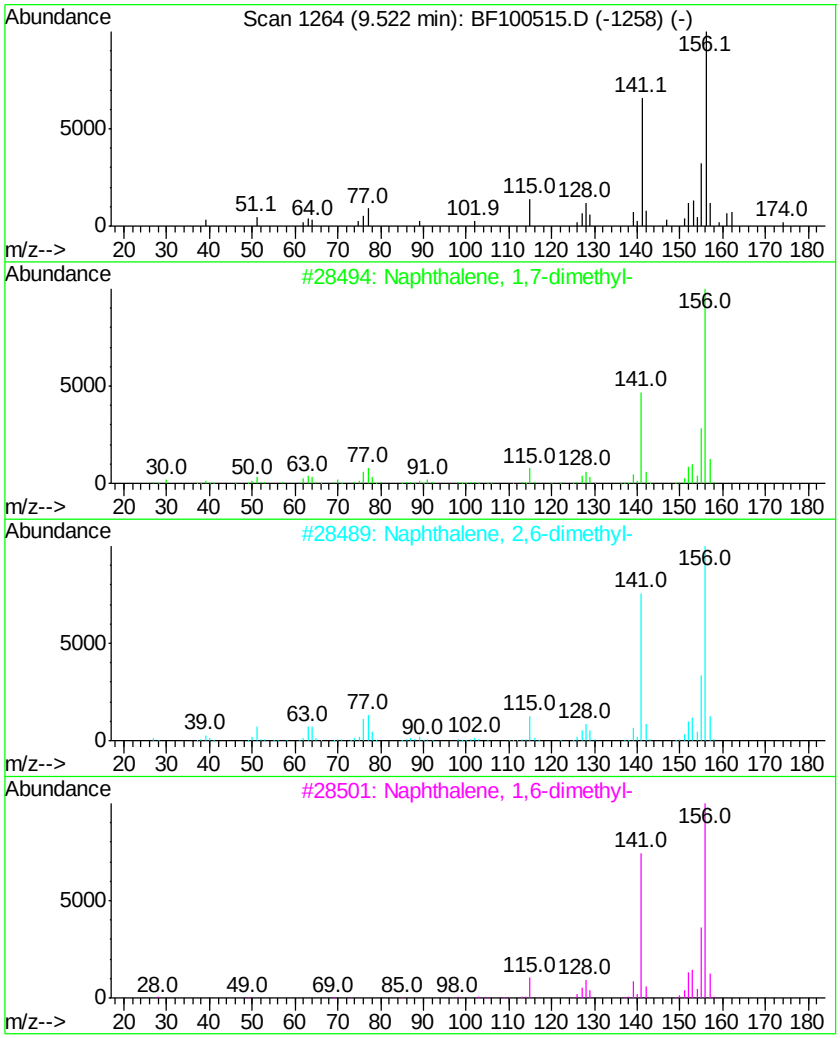
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

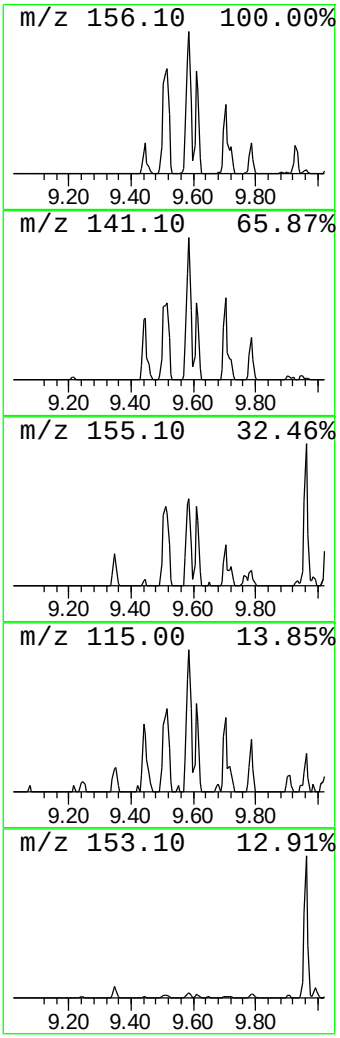
****

Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.52	6.21 ng	152422	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

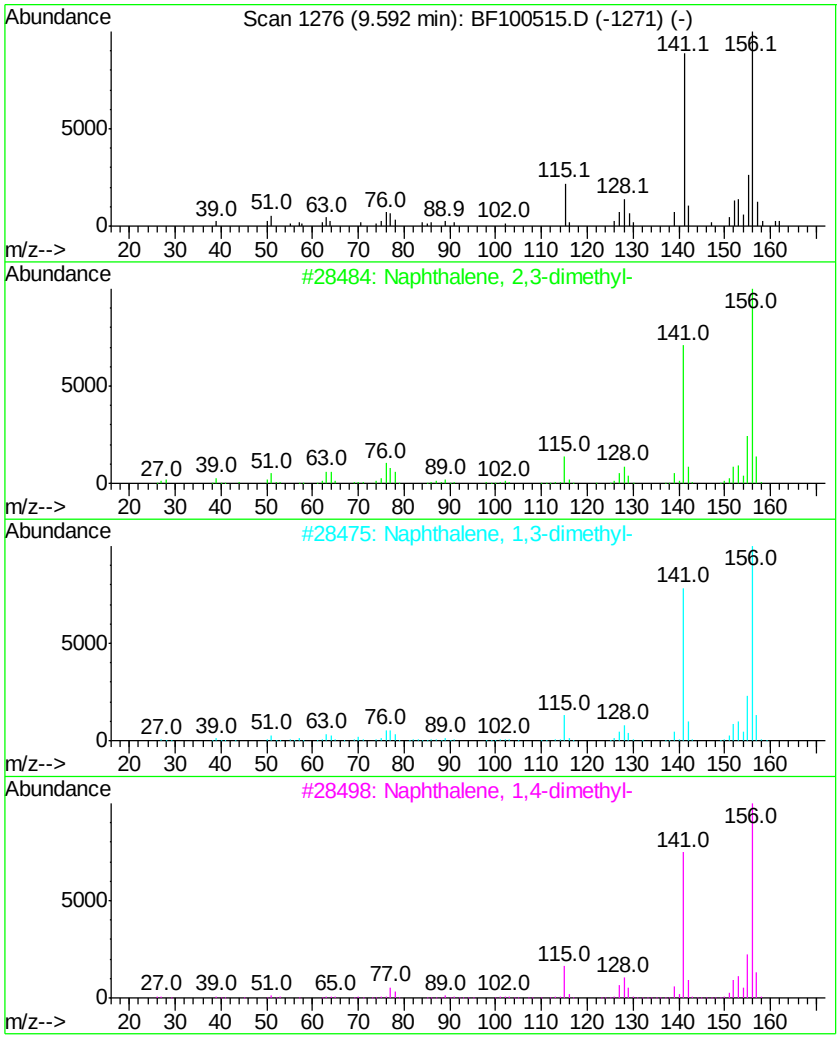
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

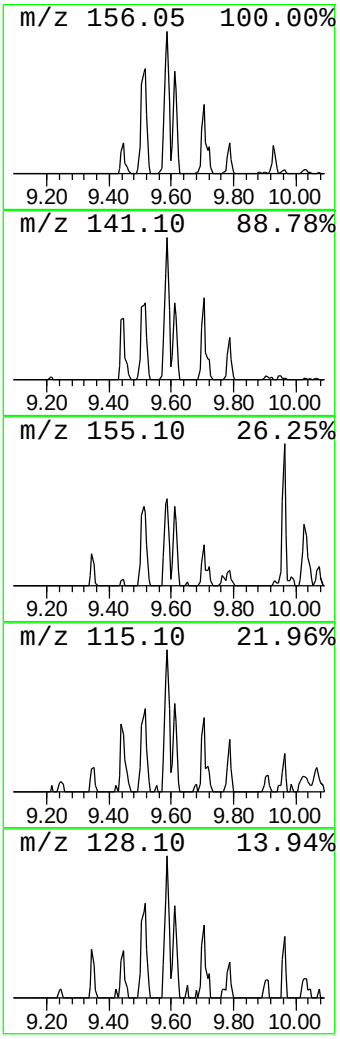
****

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.59	6.60 ng	162056	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

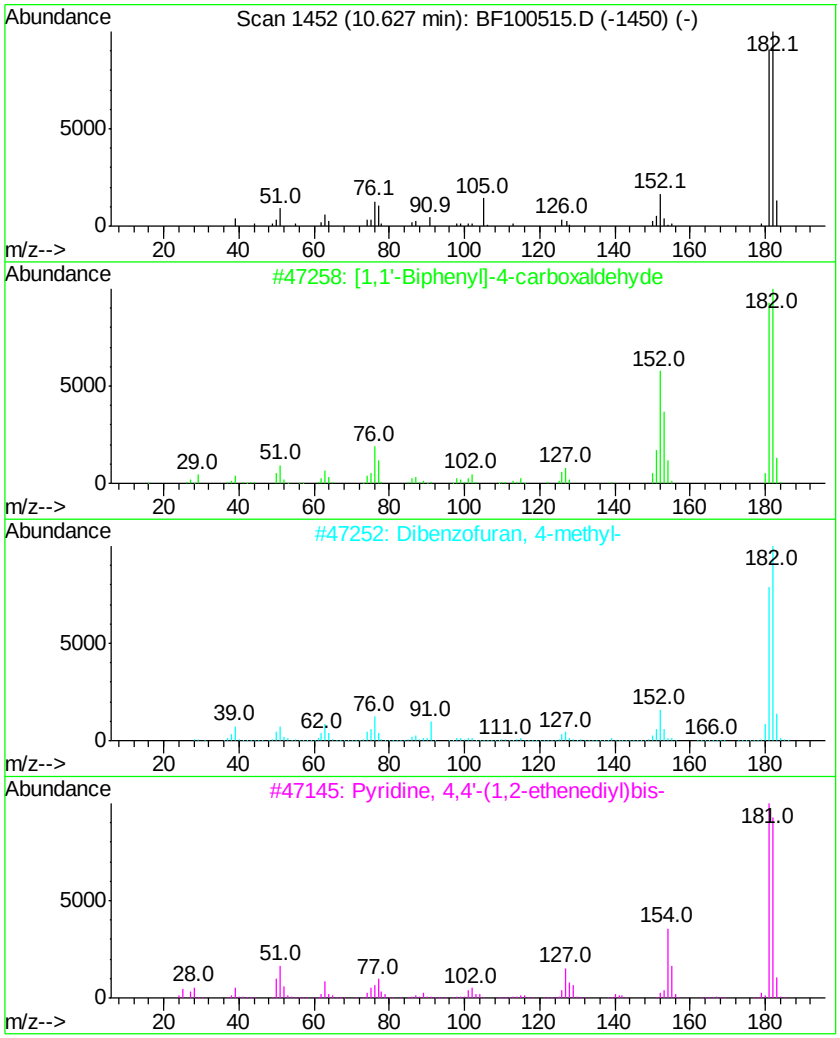
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

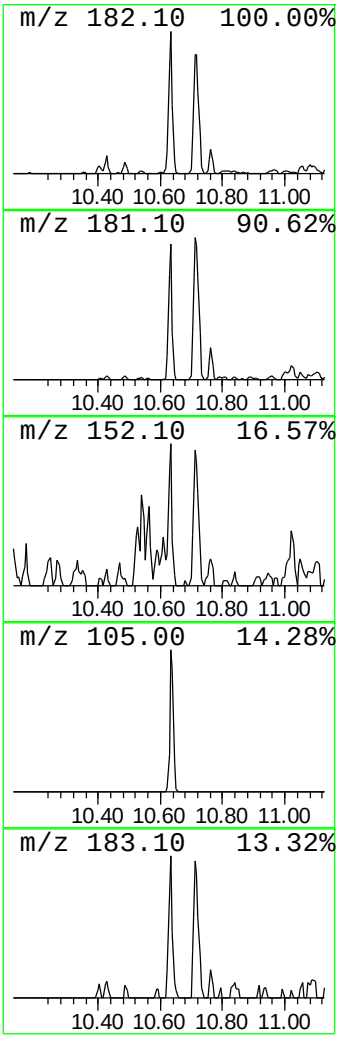
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.63	5.73 ng	140707	Acenaphthene-d10	9.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	64
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	64
3	Pyridine, 4,4'-(1,2-ethenediyl)bis-	182	C12H10N2	001135-32-6	64
4	Pyrido[2,3-b]indole, 6-methyl-	182	C12H10N2	108349-67-3	59
5	Benzaldehyde, 4-hydroxy-3,5-dime...	182	C9H10O4	000134-96-3	53





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

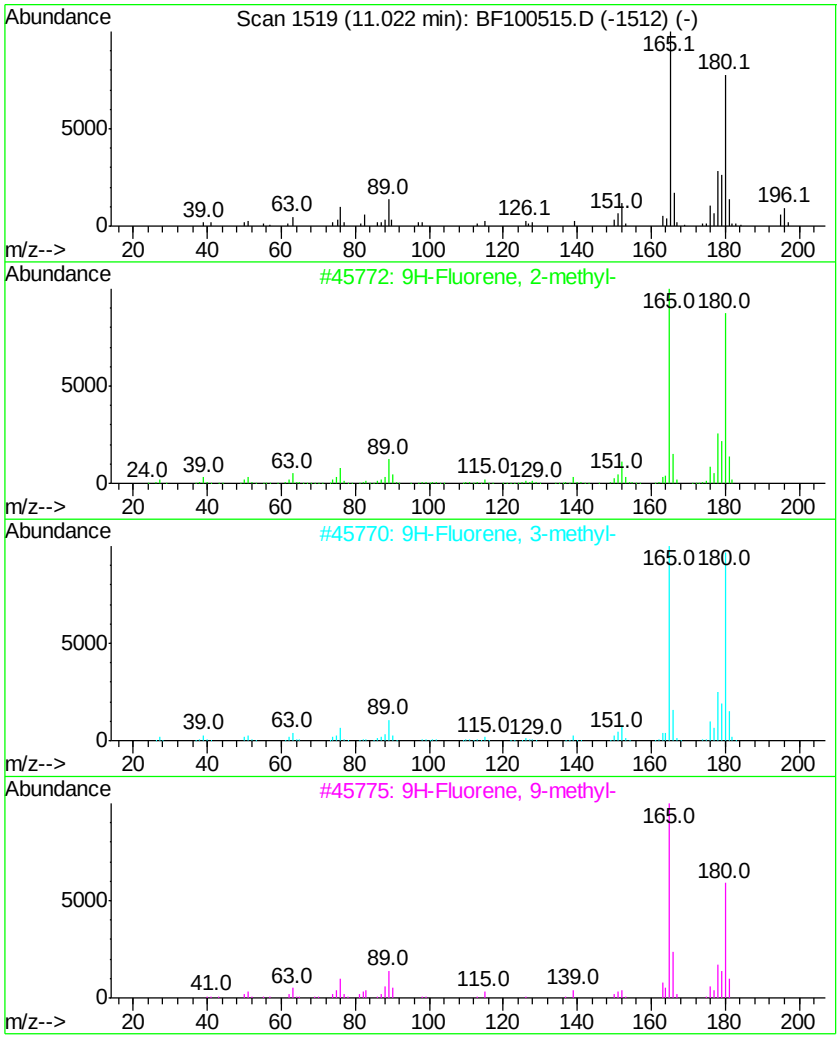
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

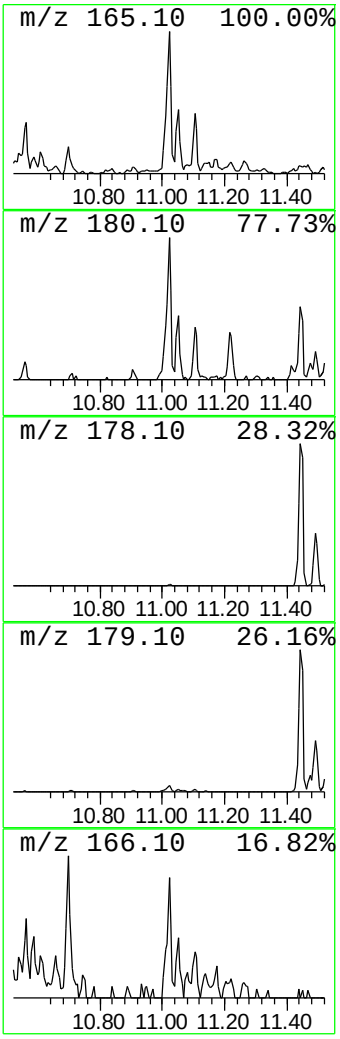
****

Peak Number 8 9H-Fluorene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	5.56 ng	120057	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	98
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	96
3	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	83





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

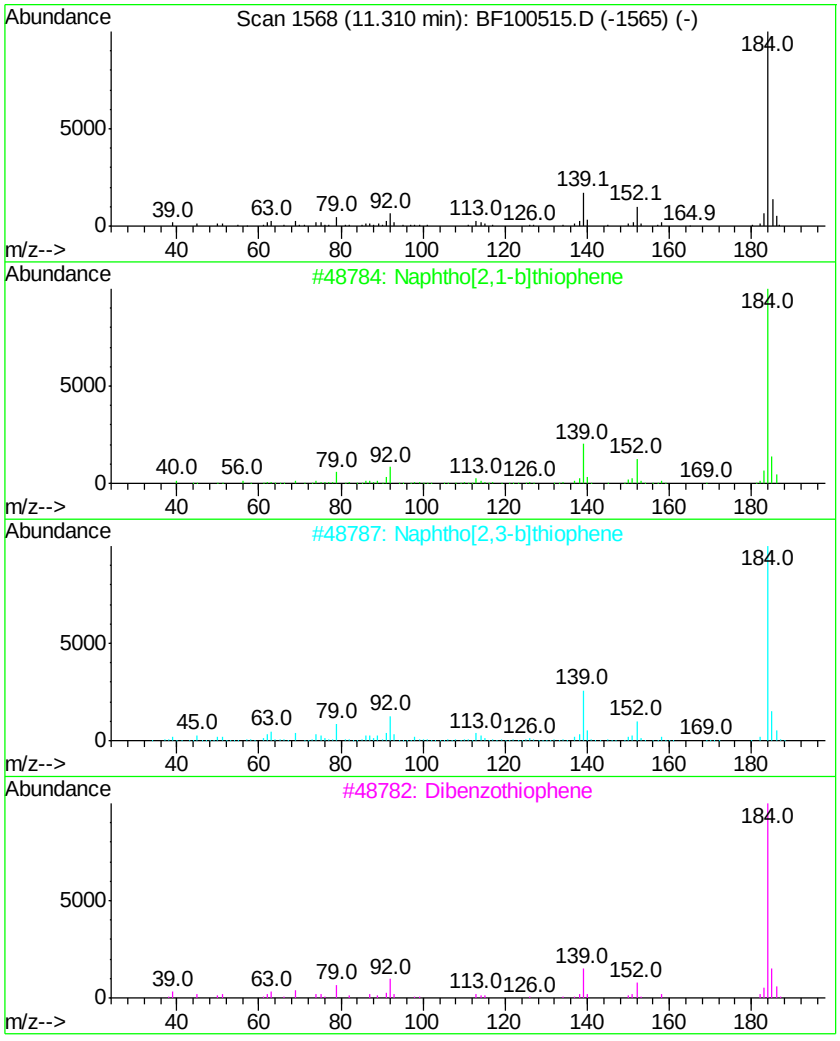
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

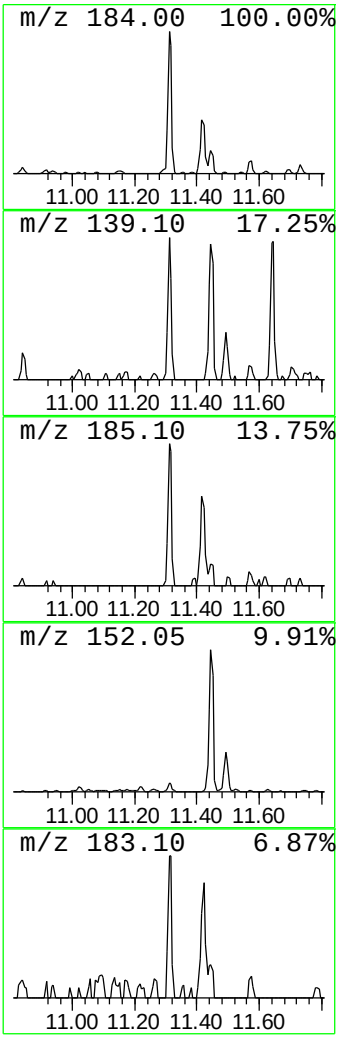
****

Peak Number 9 Naphtho[2,1-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.31	6.27 ng	135415	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
3	Dibenzothiophene	184	C12H8S	000132-65-0	97
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

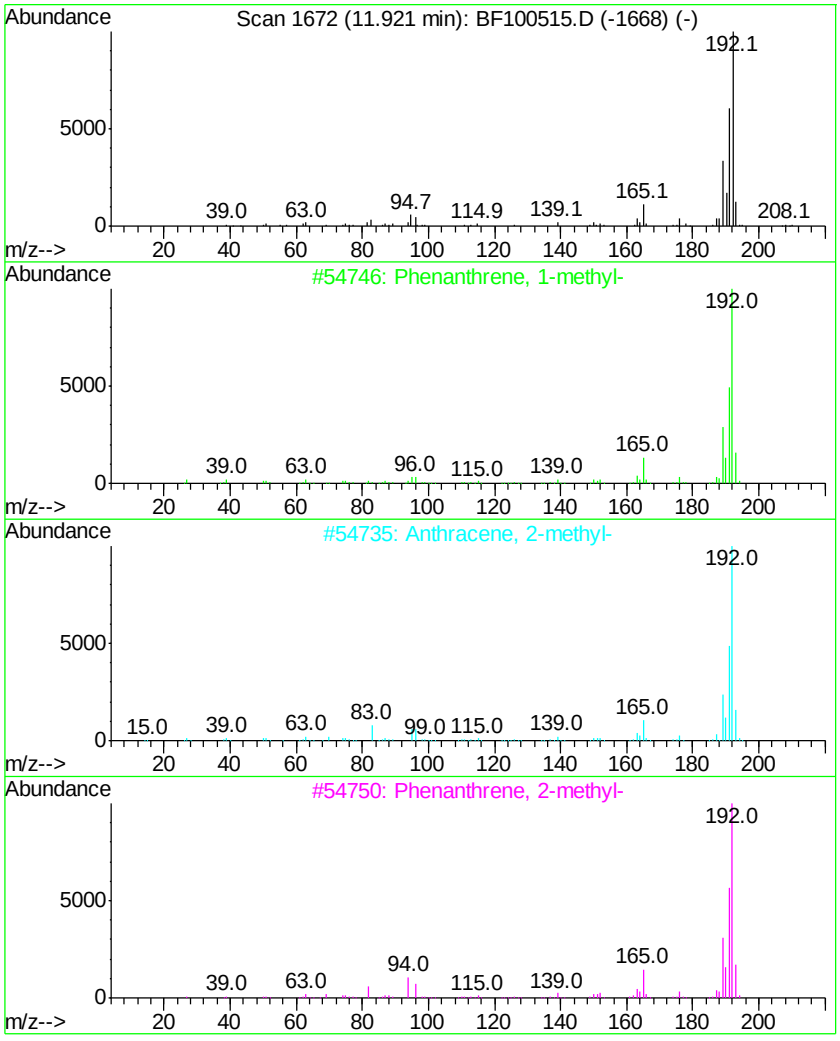
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

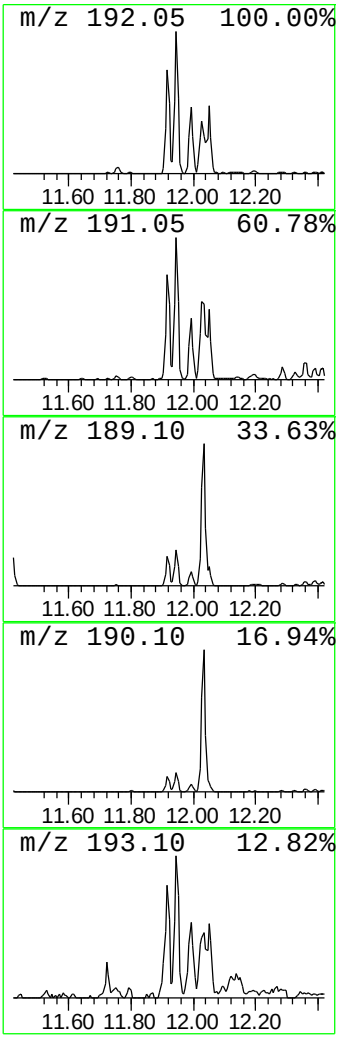
****

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	8.54 ng	184449	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

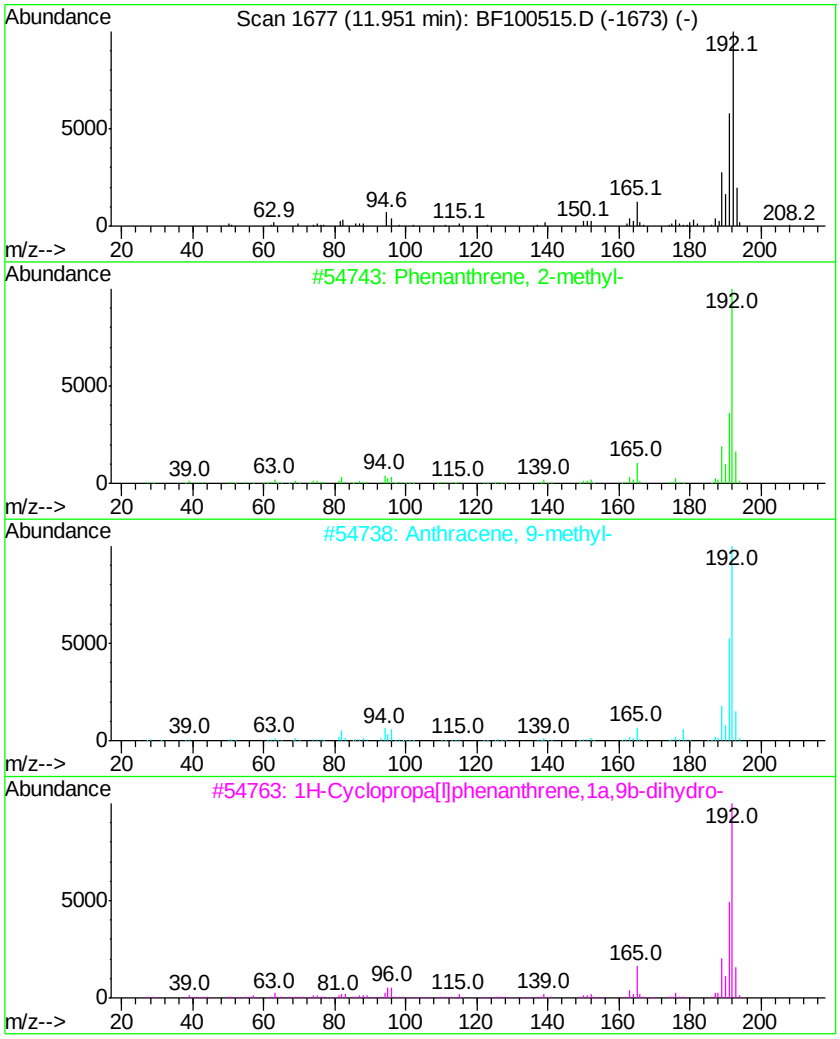
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

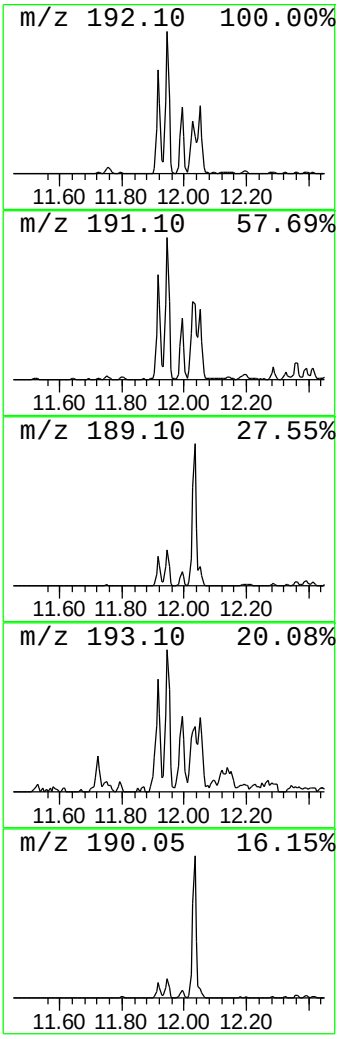
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	12.44 ng	268788	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

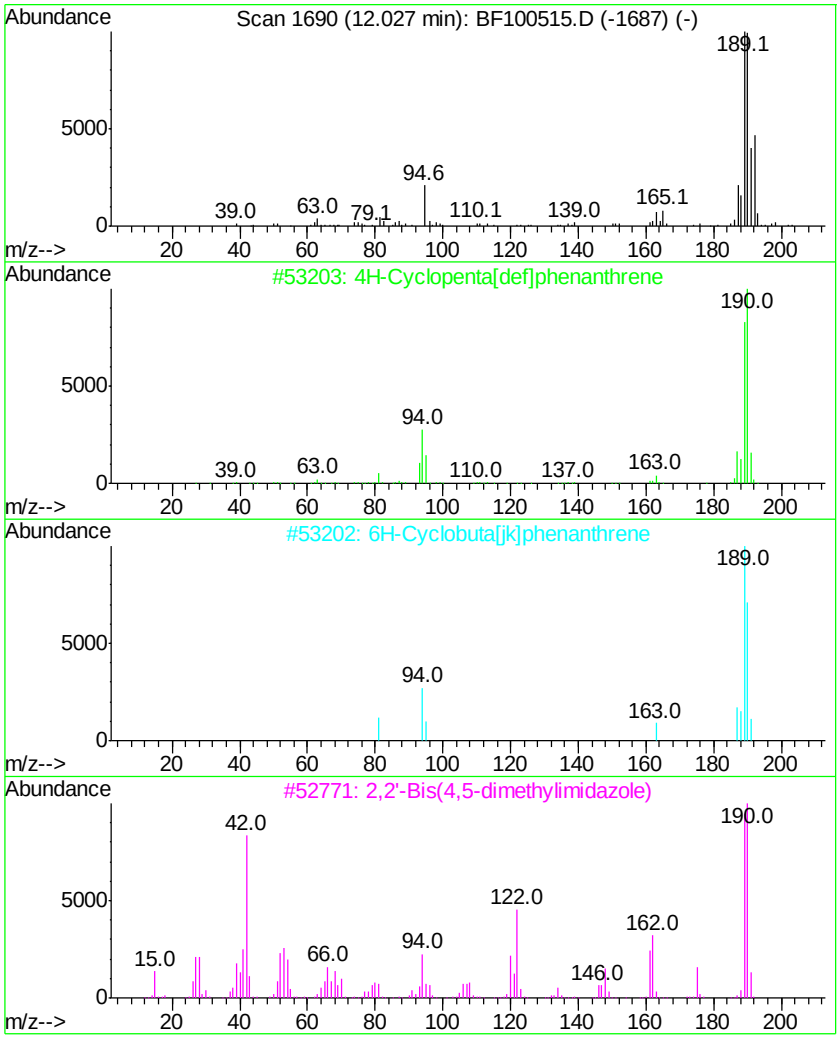
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

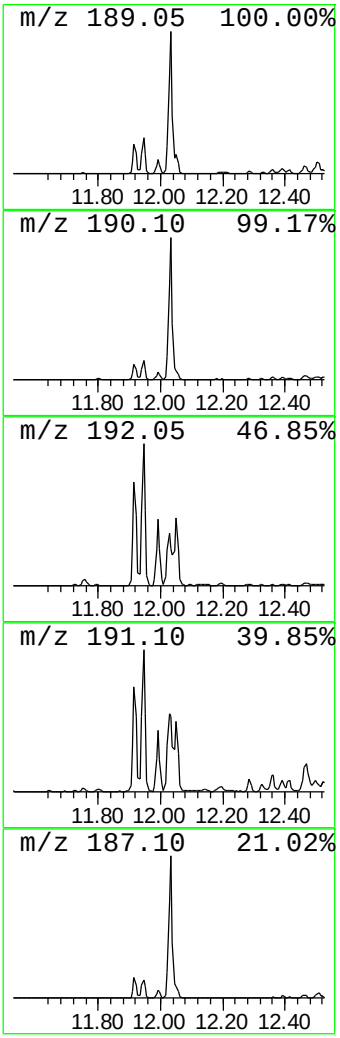
****

Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	19.89 ng	429860	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
4	Methyl diselenide	190	C2H6Se2	007101-31-7	27
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	16





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

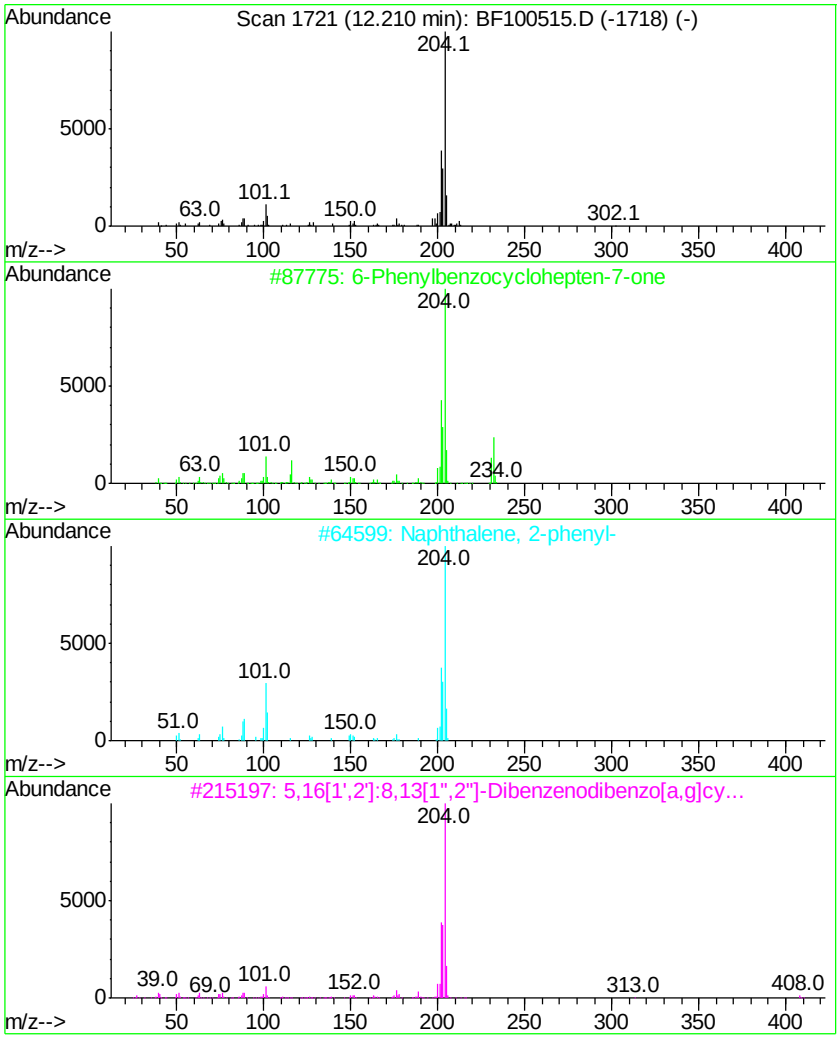
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

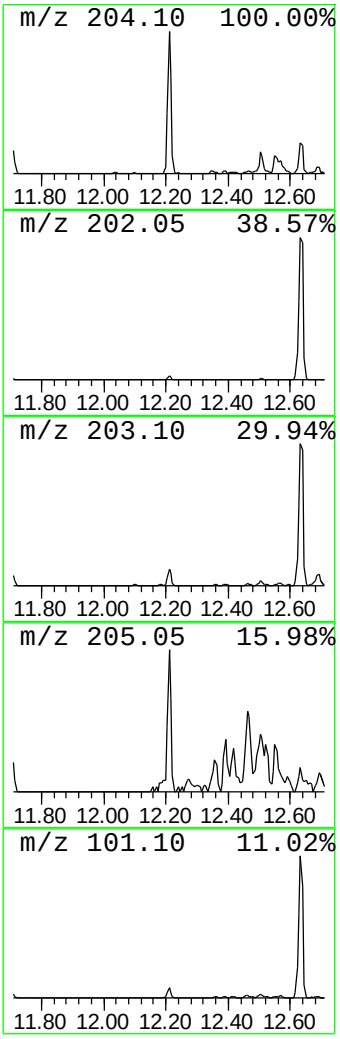
****

Peak Number 14 6-Phenylbenzocyclohepten-7-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.21	6.34 ng	136975	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	52





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

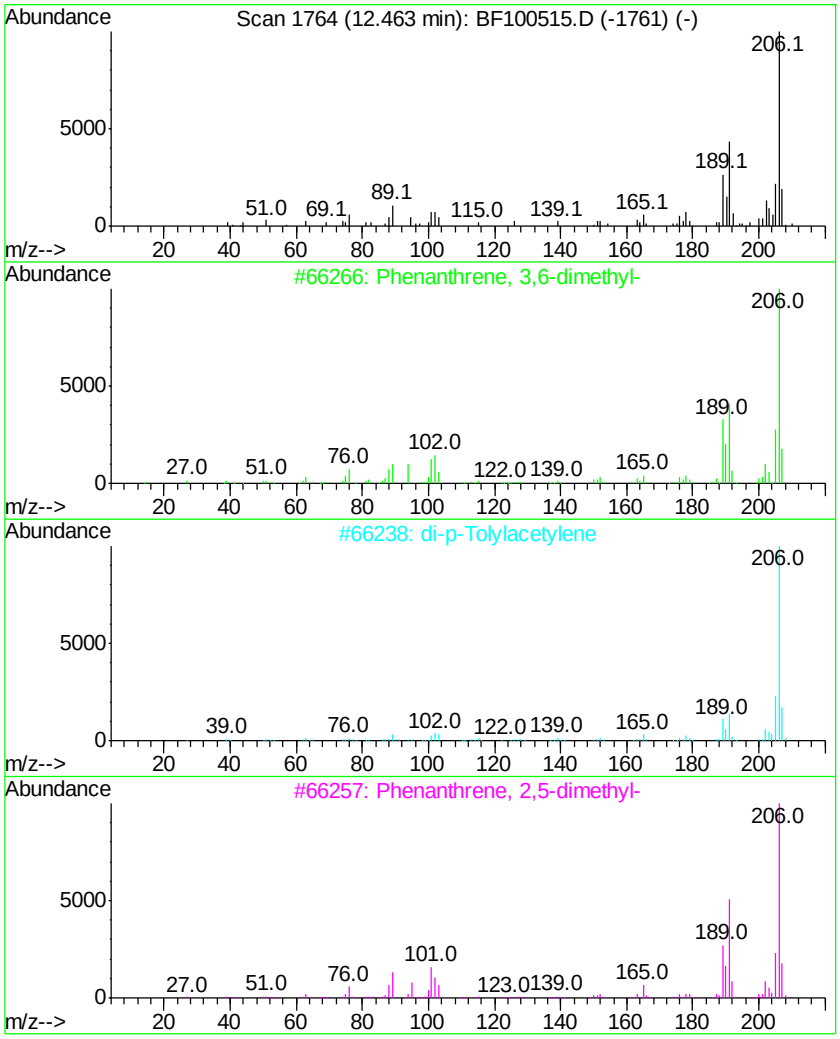
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

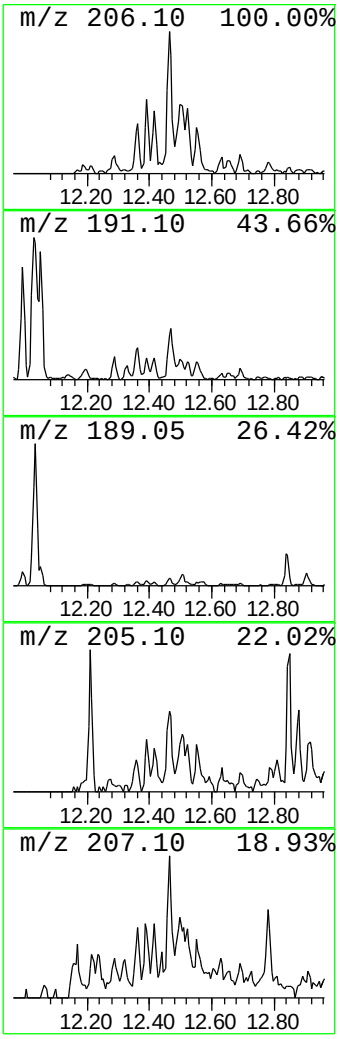
****

Peak Number 15 Phenanthrene, 3,6-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	4.44 ng	95997	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

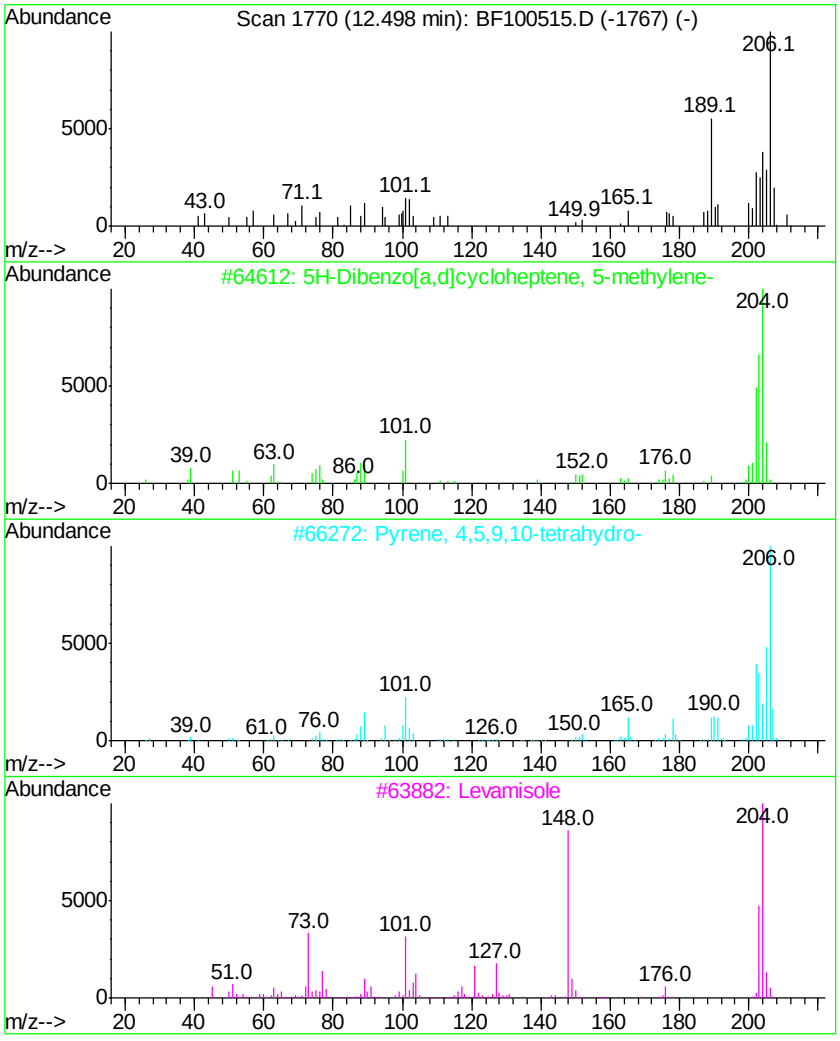
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

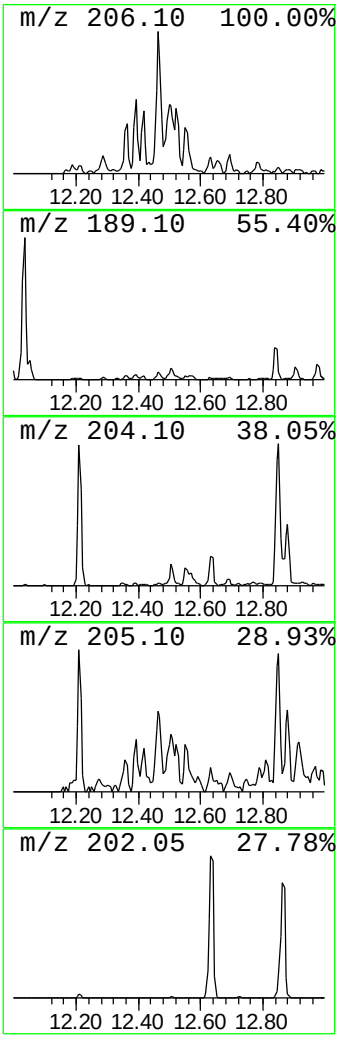
****

Peak Number 16 5H-Dibenzo[a,d]cycloheptene... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.50	3.29 ng	71048	Phenanthrene-d10	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	56
2	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	38
3	Levamisole	204	C11H12N2S	014769-73-4	30
4	m-Trifluoromethoxybenzoic acid	206	C8H5F3O3	001014-81-9	30
5	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	30





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

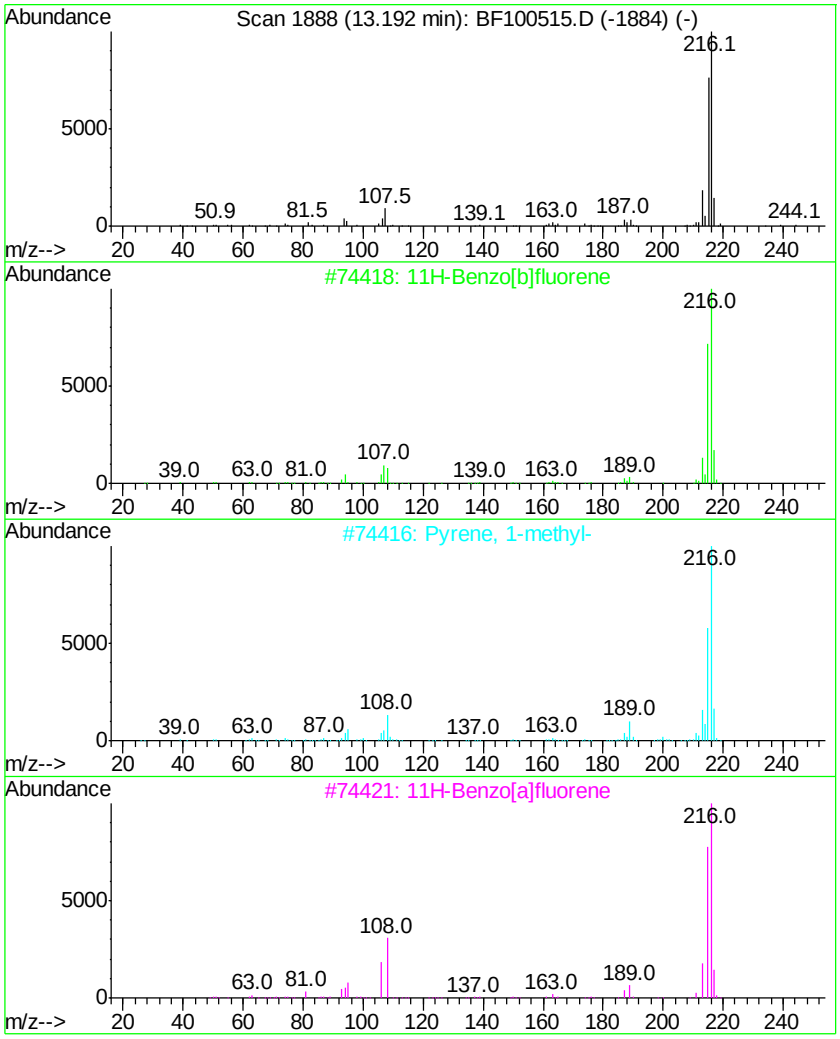
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

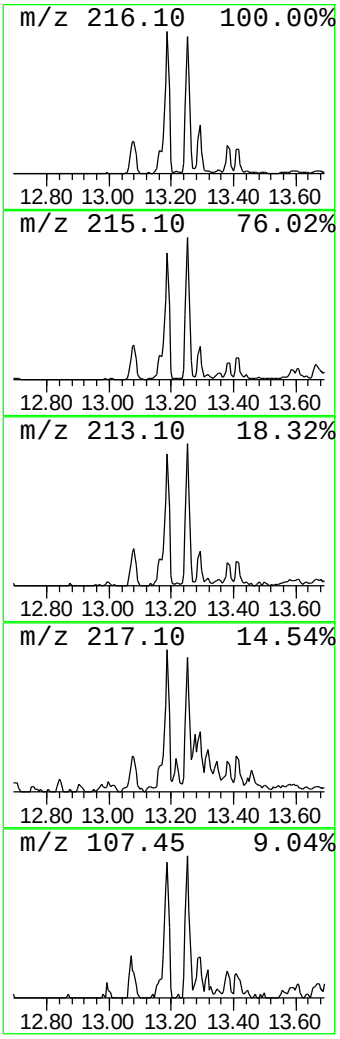
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	4.72 ng	326964	Chrysene-d12	14.06

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF111317\
Data File : BF100515.D
Acq On : 13 Nov 2017 21:21
Operator : SJ/JU
Sample : I6301-03 10X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : JC-02-110917-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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
unknown6.66	6.66	9.4	ng	207571	1	6.89	440230	20.0
Naphthalene, 1,7-...	9.52	6.2	ng	152422	3	9.93	490944	20.0
Naphthalene, 2,3-...	9.59	6.6	ng	162056	3	9.93	490944	20.0
[1,1'-Biphenyl]-4...	10.63	5.7	ng	140707	3	9.93	490944	20.0
9H-Fluorene, 2-me...	11.02	5.6	ng	120057	4	11.42	432146	20.0
Naphtho[2,1-b]thi...	11.31	6.3	ng	135415	4	11.42	432146	20.0
Phenanthrene, 1-m...	11.92	8.5	ng	184449	4	11.42	432146	20.0
Phenanthrene, 2-m...	11.95	12.4	ng	268788	4	11.42	432146	20.0
4H-Cyclopenta[def...	12.03	19.9	ng	429860	4	11.42	432146	20.0
6-Phenylbenzocycl...	12.21	6.3	ng	136975	4	11.42	432146	20.0
Phenanthrene, 3,6...	12.46	4.4	ng	95997	4	11.42	432146	20.0
5H-Dibenzo[a,d]cy...	12.50	3.3	ng	71048	4	11.42	432146	20.0
11H-Benzo[b]fluorene	13.19	4.7	ng	326964	5	14.06	1385560	20.0