LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

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-BF061918.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	5.190	481	485	498	rBV	95971	110675	9.68%	0.815%
2	5.601	551	555	574	rBV	941485	931469	81.49%	6.859%
3	6.601	721	725	741	rBV	955077	962405	84.19%	7.087%
4	6.737	744	748	751	rBV	1023812	926290	81.03%	6.821%
5	6.954	782	785	789	rBV	359541	281368	24.61%	2.072%
6	7.113	808	812	815	rBV	890070	748169	65.45%	5.510%
7	7.519	877	881	891	rBV	550452	518134	45.33%	3.816%
8	8.236	1000	1003	1023	rBV	302490	319801	27.98%	2.355%
9	9.313	1182	1186	1194	rBV	910383	903246	79.02%	6.652%
10	9.701	1249	1252	1262	rVB	124163	125987	11.02%	0.928%
11	9.860	1276	1279	1284	rBB	17799	16362	1.43%	0.120%
12	10.001	1299	1303	1306	rBV	313746	305951	26.77%	2.253%
13	10.030	1306	1308	1313	rVB	24209	20208	1.77%	0.149%
14	10.548	1392	1396	1401	rVB2	12594	14243	1.25%	0.105%
15	10.795	1434	1438	1448	rBV	629203	584615	51.14%	4.305%
16	11.219	1506	1510	1512	rBV3	10106	11584	1.01%	0.085%
17	11.301	1521	1524	1526	rBV	16221	14814	1.30%	0.109%
18	11.330	1526	1529	1536	rVV3	12298	23286	2.04%	0.171%
19	11.389	1536	1539	1542	rVB	14213	12938	1.13%	0.095%
20	11.495	1553	1557	1559	rBV	415085	368915	32.27%	2.717%
21	11.519	1559	1561	1564	rVV	320848	247192	21.62%	1.820%
22	11.572	1567	1570	1574	rBV	72675	64626	5.65%	0.476%
23	11.730	1591	1597	1600	rBV3	18831	27083	2.37%	0.199%
24	11.830	1610	1614	1618	rVB5	9882	14063	1.23%	0.104%
25	11.995	1639	1642	1644	rBV	60583	50455	4.41%	0.372%
26	12.024	1644	1647	1650	rVB	81331	67971	5.95%	0.501%
27	12.072	1652	1655	1658	rVB	37669	30345	2.65%	0.223%
28	12.113	1658	1662	1664	rBV2	84083	102497	8.97%	0.755%
29	12.130	1664	1665	1668	rVB	46956	29338	2.57%	0.216%
30	12.289	1689	1692	1696	rVB	49822	40456	3.54%	0.298%
31	12.324	1696	1698	1702	rBV	26695	23277	2.04%	0.171%
32	12.442	1712	1718	1721	rBV4	19712	27810	2.43%	0.205%
33	12.472	1721	1723	1725	rVV	18242	13649	1.19%	0.101%
34	12.495	1725	1727	1730	rVB	29394	20872	1.83%	0.154%

LSC Area Percent Report

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Misc :
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Instrument : BNA_F
ClientSampleId : TP-4-S

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.542	1732	1735	1739	rVV2	60147	63683	5.57%	0.469%
36	12.583	1739	1742	1744	rVV3	29316	35057	3.07%	0.258%
37	12.601	1744	1745	1748	rVV	18499	12849	1.12%	0.095%
38	12.642	1748	1752	1756	rVB2	42489	52259	4.57%	0.385%
39	12.713	1760	1764	1768	rBV	617483	546212	47.78%	4.022%
40	12.777	1772	1775	1777	rVB2	21913	20665	1.81%	0.152%
41	12.807	1777	1780	1782	rBV	14906	13418	1.17%	0.099%
42	12.866	1788	1790	1792	rVB	20072	13971	1.22%	0.103%
43	12.924	1797	1800	1801	rBV	123911	111025	9.71%	0.818%
44	12.948	1801	1804	1809	rVB	549926	495862	43.38%	3.652%
45	12.989	1809	1811	1816	rVB3	41853	43673	3.82%	0.322%
46	13.077	1816	1826	1829	rBV	1205313	1143091	100.00%	8.418%
47	13.107	1829	1831	1835	rVB	34972	31633	2.77%	0.233%
48	13.166	1835	1841	1845	rBV3	48466	83973	7.35%	0.618%
49	13.213	1845	1849	1851	rBV4	10119	14040	1.23%	0.103%
50	13.271	1851	1859	1863	rBV4	74017	118918	10.40%	0.876%
51	13.336	1867	1870	1872	rBV	27667	22946	2.01%	0.169%
52	13.377	1872	1877	1880	rVV2	61032	74958	6.56%	0.552%
53	13.430	1884	1886	1890	rVB2	16815	16420	1.44%	0.121%
54	13.471	1890	1893	1895	rBV	39479	35194	3.08%	0.259%
55	13.501	1895	1898	1901	rVB2	39308	37510	3.28%	0.276%
56	13.566	1906	1909	1911	rBV2	13229	14590	1.28%	0.107%
57	13.618	1915	1918	1921	rBV3	20340	18981	1.66%	0.140%
58	13.783	1944	1946	1949	rBV	61124	57048	4.99%	0.420%
59	13.842	1954	1956	1960	rVB2	15373	14375	1.26%	0.106%
60	13.895	1960	1965	1967	rBV	56158	66635	5.83%	0.491%
61	13.918	1967	1969	1972	rVV	56313	46074	4.03%	0.339%
62	13.954	1972	1975	1980	rVV4	67352	88683	7.76%	0.653%
63	13.995	1980	1982	1988	rVB	57187	53508	4.68%	0.394%
64	14.066	1989	1994	1995	rBV2	15849	23155	2.03%	0.171%
65	14.148	2000	2008	2010	rBV2	459114	651574	57.00%	4.798%
66	14.171	2010	2012	2019	rVB	232218	226387	19.80%	1.667%
67	14.265	2024	2028	2032	rBV2	35613	56167	4.91%	0.414%
68	14.307	2032	2035	2037	rBV3	18806	26769	2.34%	0.197%
69	14.383	2044	2048	2051	rBV3	25941	34951	3.06%	0.257%
70	14.501	2065	2068	2070	rBV	23802	24145	2.11%	0.178%
71	14.536	2072	2074	2076	rVB	53345	40258	3.52%	0.296%

LSC Area Percent Report

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Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.571	2078	2080	2084	rBV2	37703	48586	4.25%	0.358%
73	14.665	2094	2096	2098	rBV	22214	23633	2.07%	0.174%
74	14.895	2133	2135	2141	rVB2	35559	37721	3.30%	0.278%
75	15.060	2160	2163	2165	rBV2	22742	24255	2.12%	0.179%
76	15.230	2187	2192	2195	rBV	135898	237187	20.75%	1.747%
77	15.348	2208	2212	2215	rBV	35502	49609	4.34%	0.365%
78	15.554	2243	2247	2254	rVB	90674	134141	11.73%	0.988%
79	15.624	2254	2259	2266	rBV	130210	210686	18.43%	1.552%
80	15.689	2266	2270	2274	rBV	182980	229745	20.10%	1.692%
81	17.277	2534	2540	2547	rBV2	54552	110651	9.68%	0.815%
82	17.759	2619	2622	2631	rVB	40287	82430	7.21%	0.607%

Sum of corrected areas: 13579395

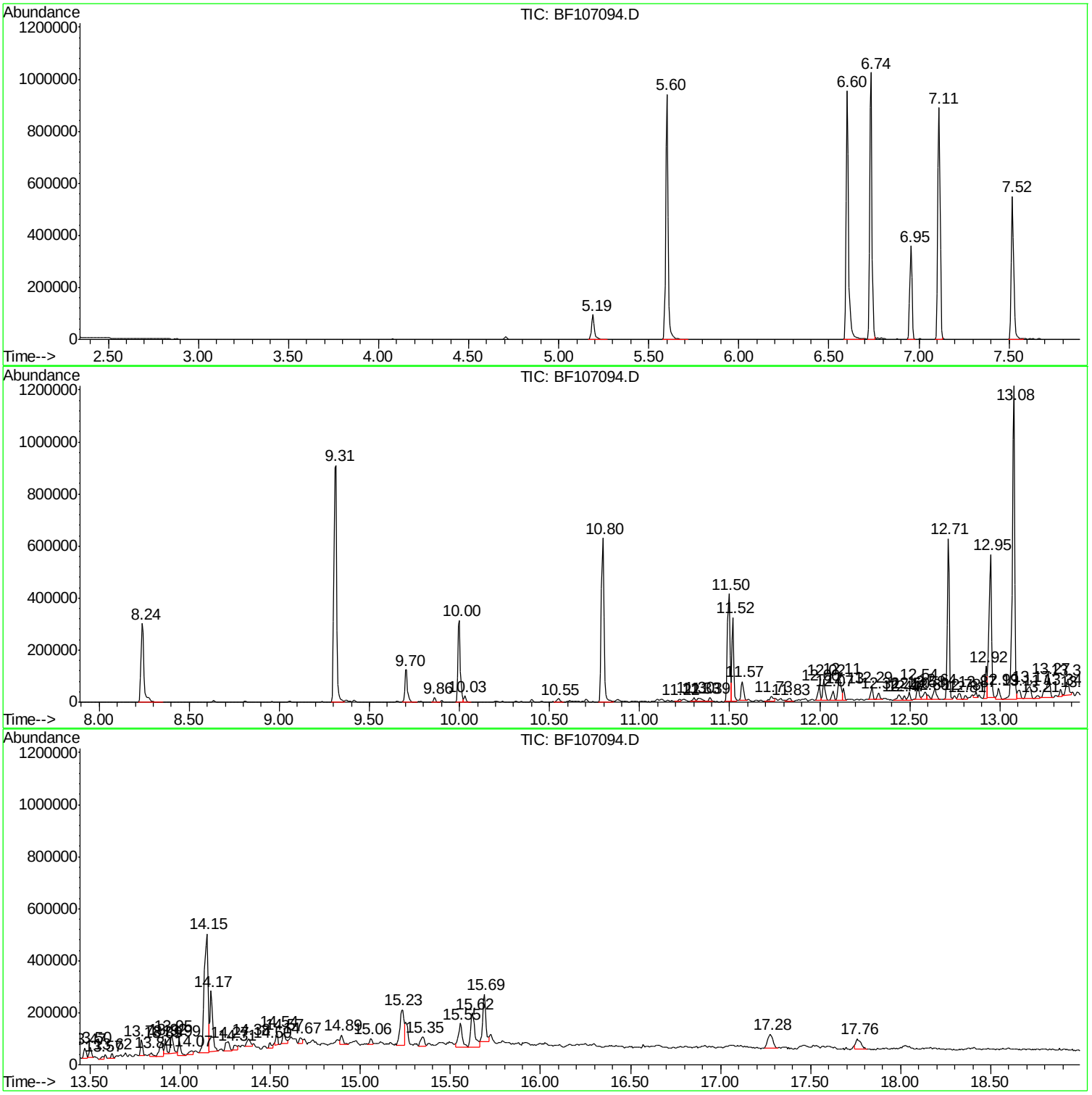
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

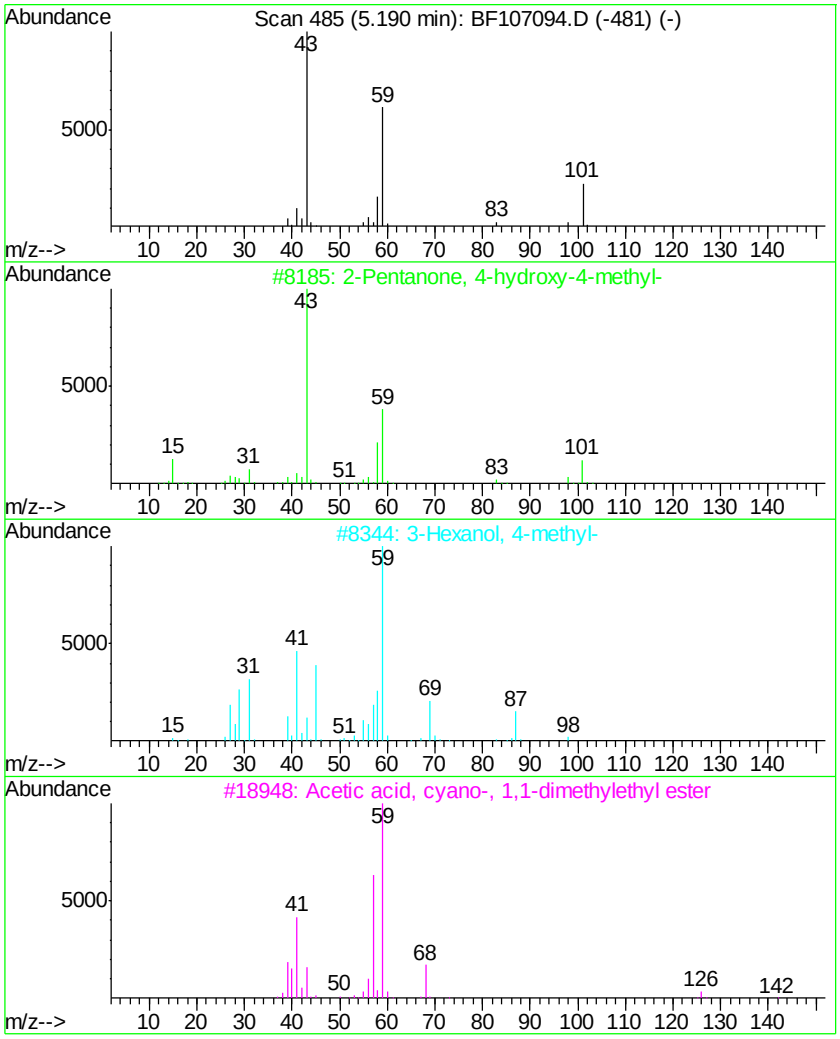
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

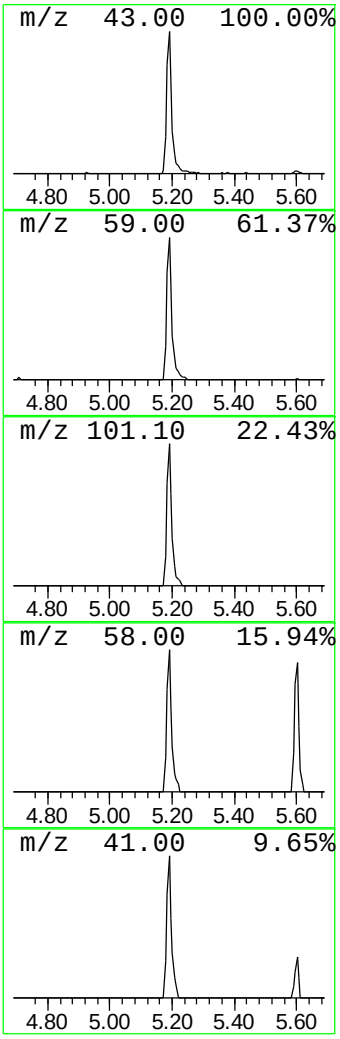
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.19	7.87 ng	110675	1,4-Dichlorobenzene-d4	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

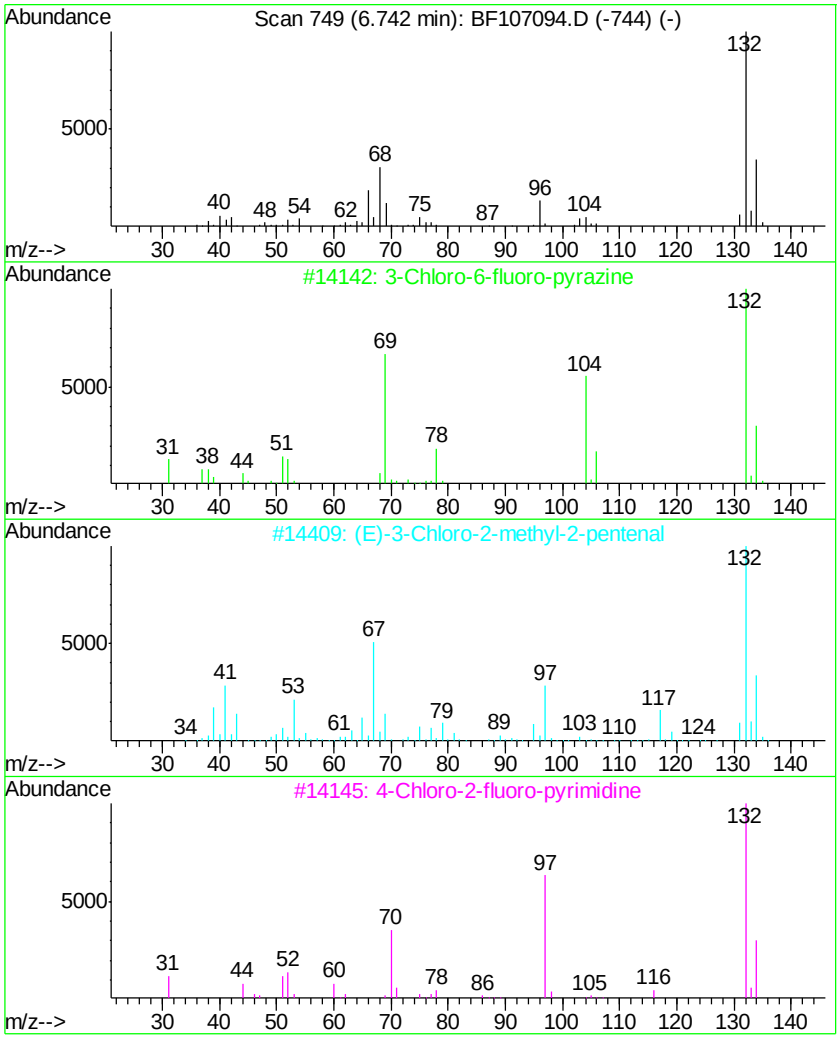
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

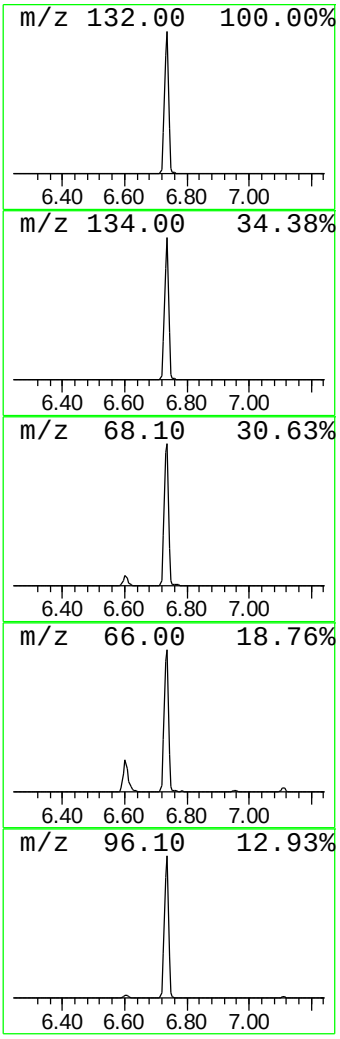
****

Peak Number 2 unknown6.74 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	65.84 ng	926290	1,4-Dichlorobenzene-d4	6.95

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
4	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





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Sample : J3840-12
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Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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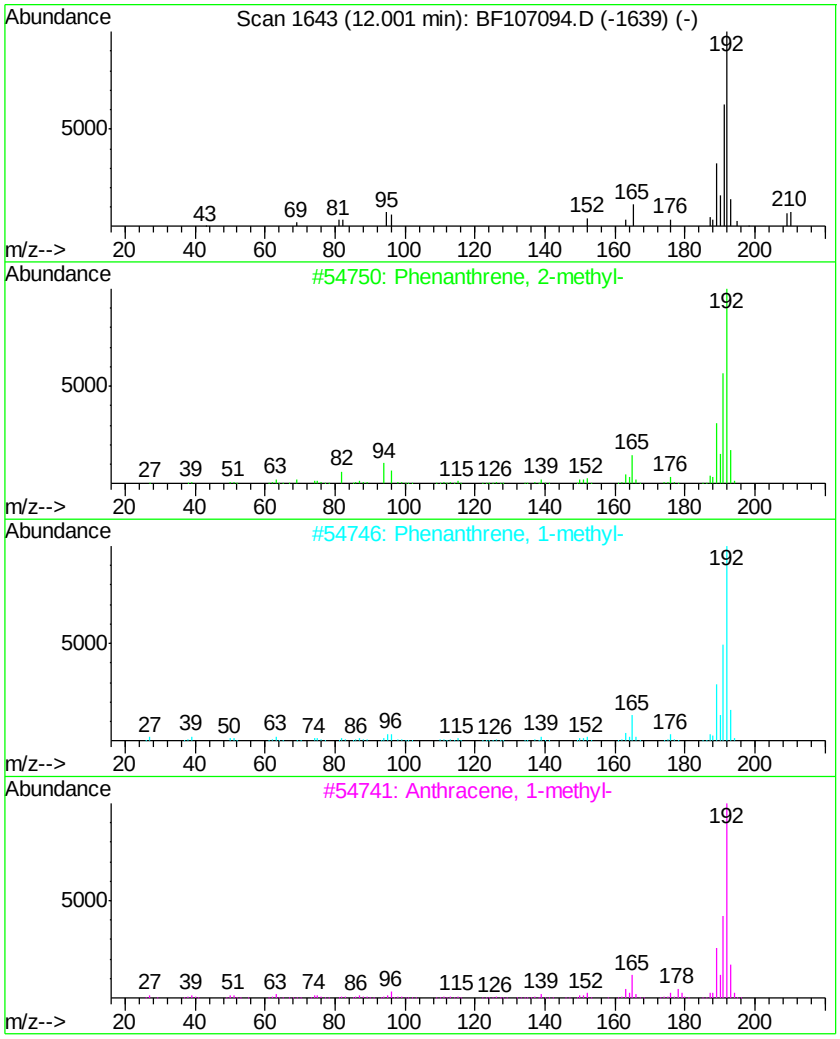
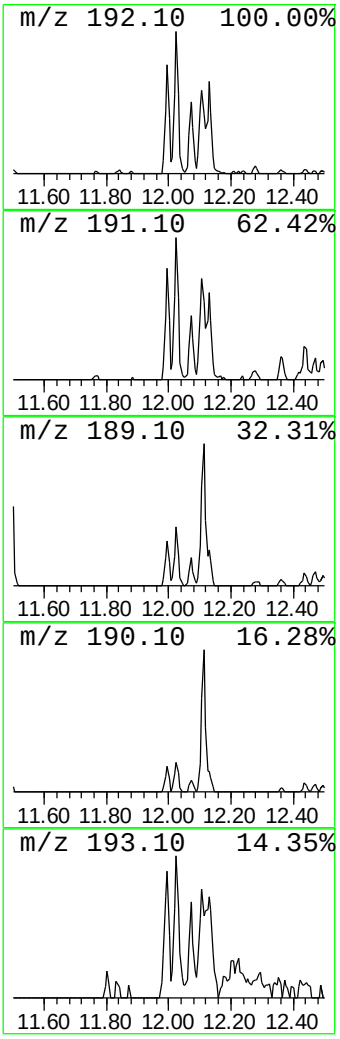
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	2.74 ng	50455	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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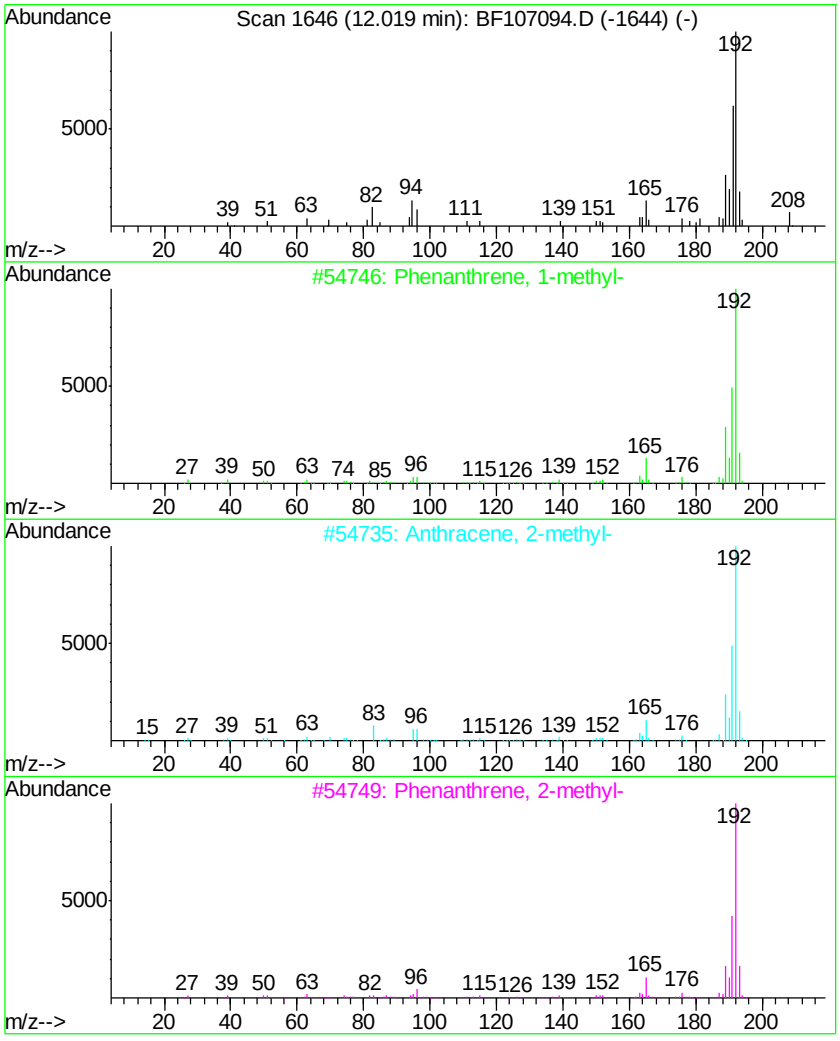
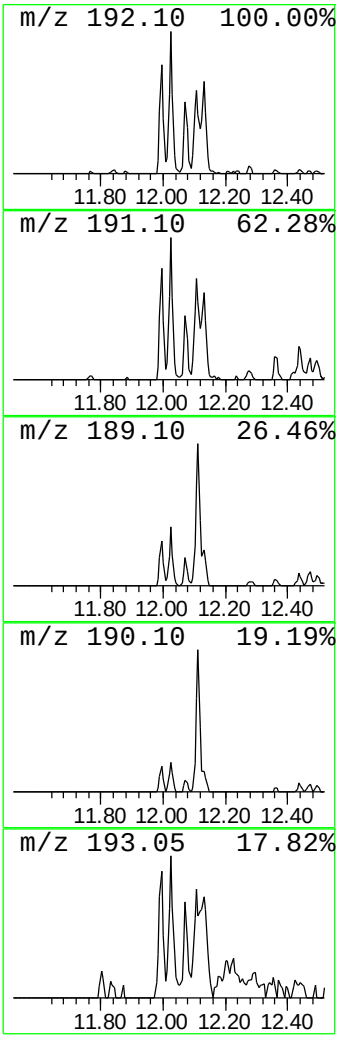
Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	3.68 ng	67971	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

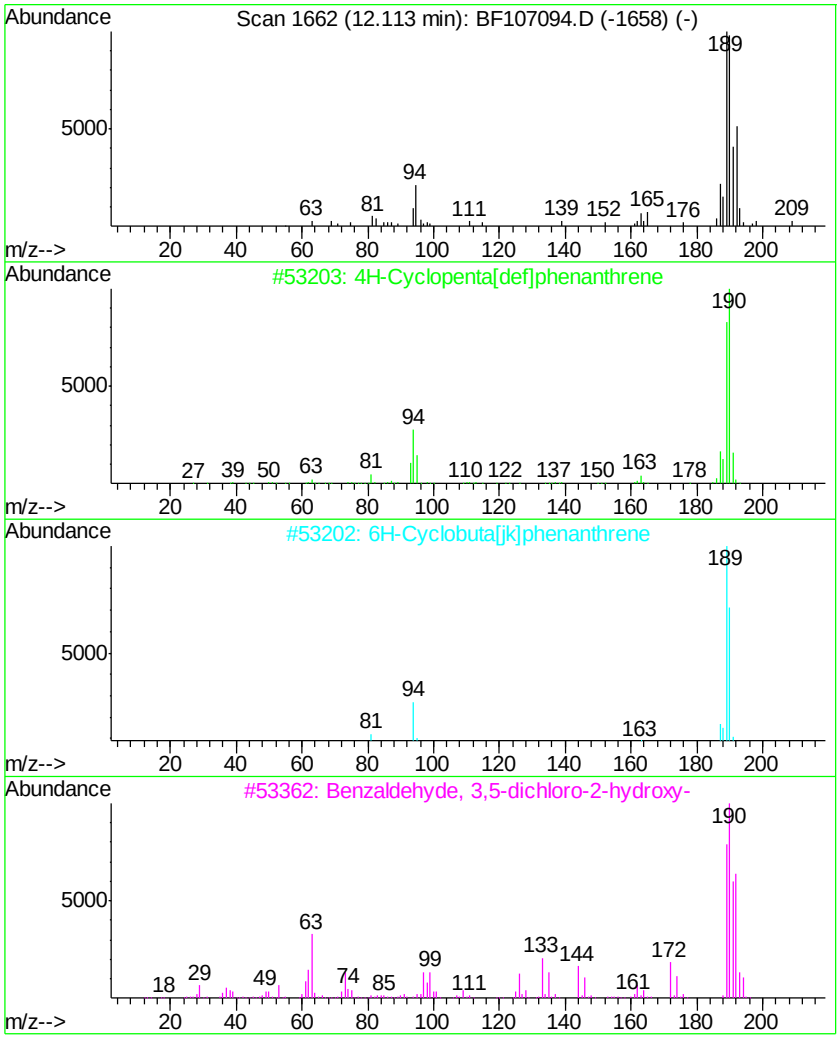
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

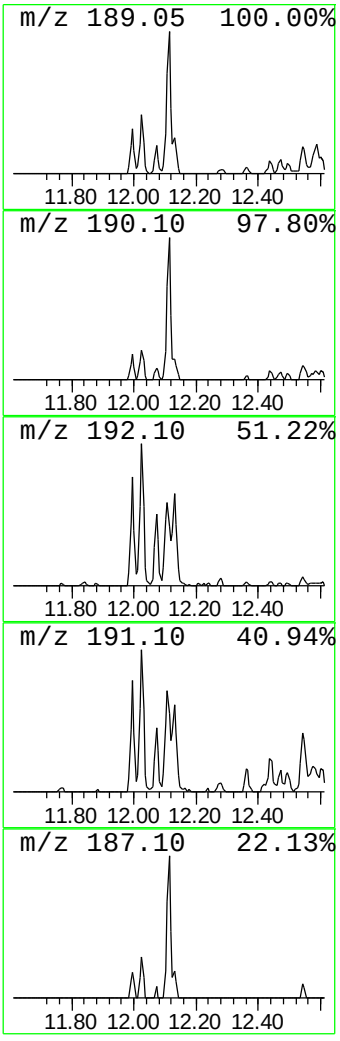
****

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	5.56 ng	102497	Phenanthrene-d10	11.50

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	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	43
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

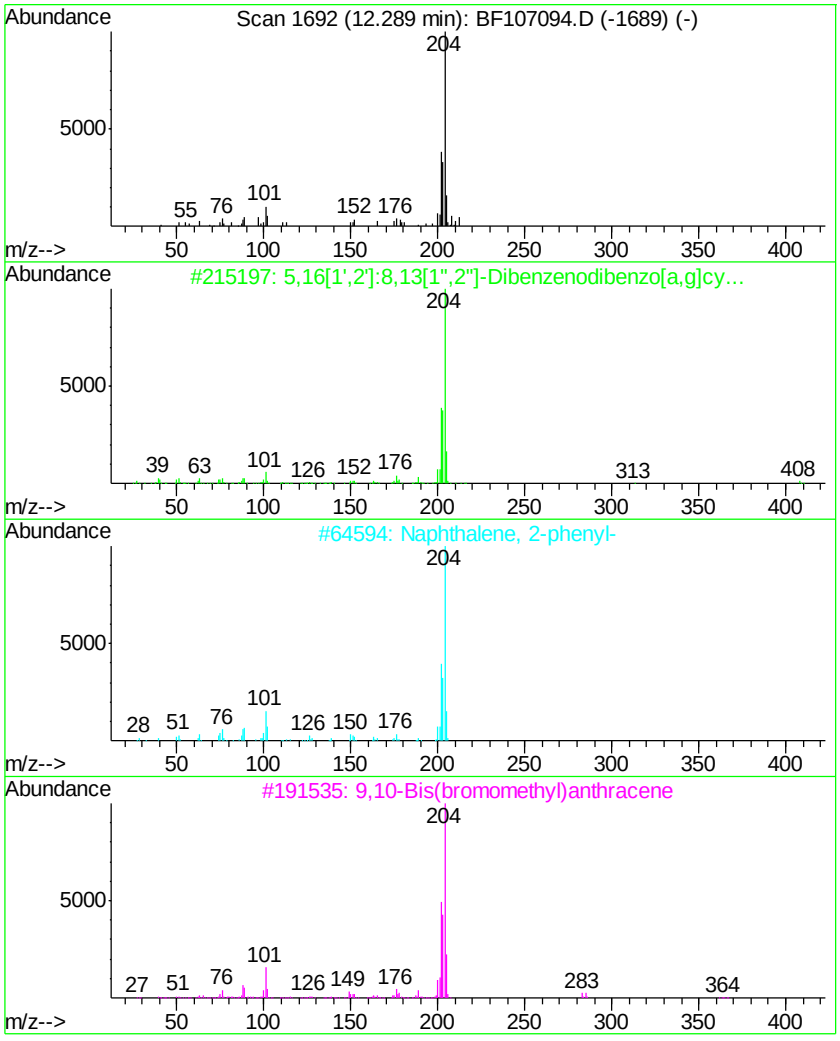
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

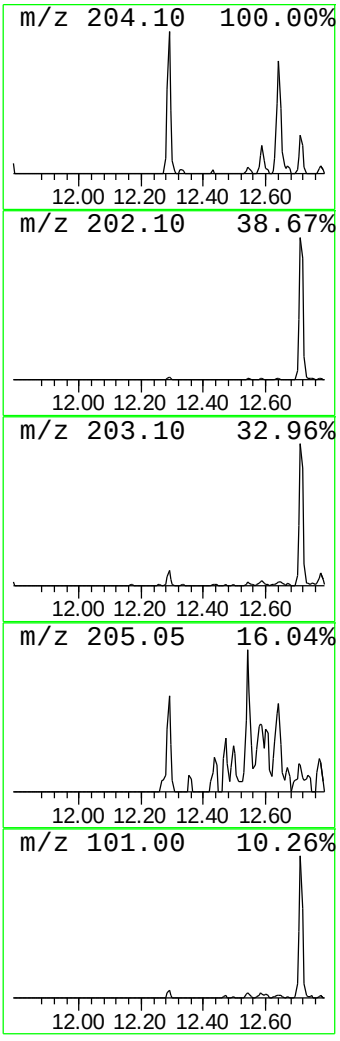
****

Peak Number 7 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	2.19 ng	40456	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	49





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Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

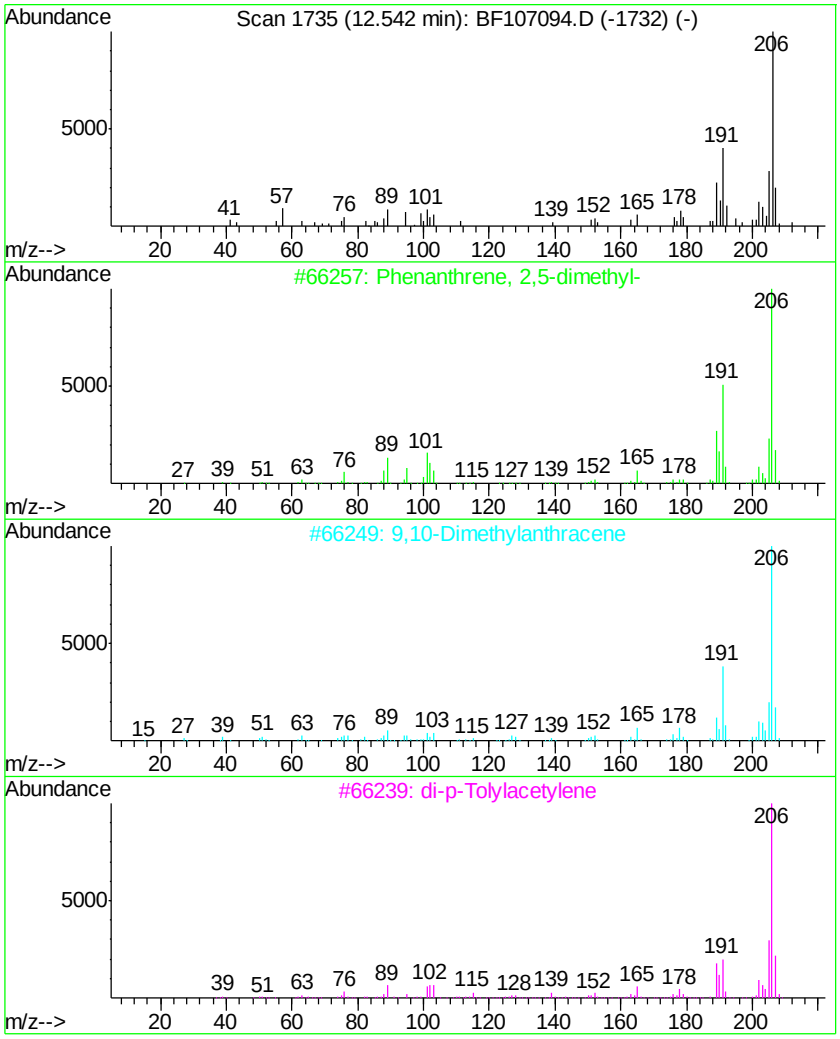
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

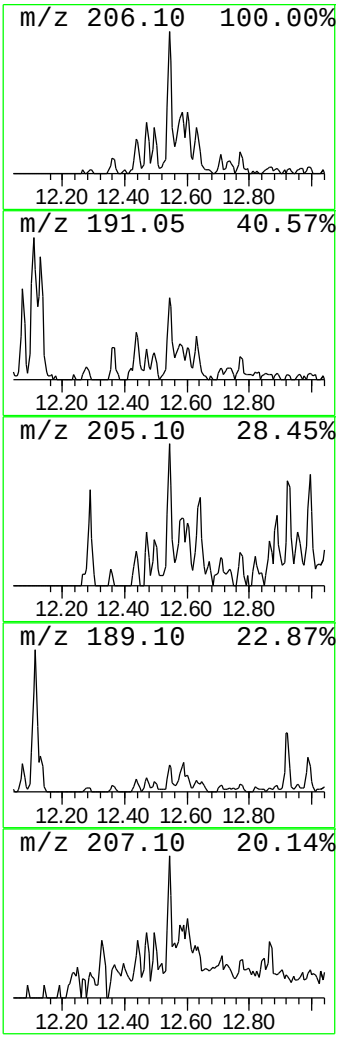
****

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	3.45 ng	63683	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	93
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93





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Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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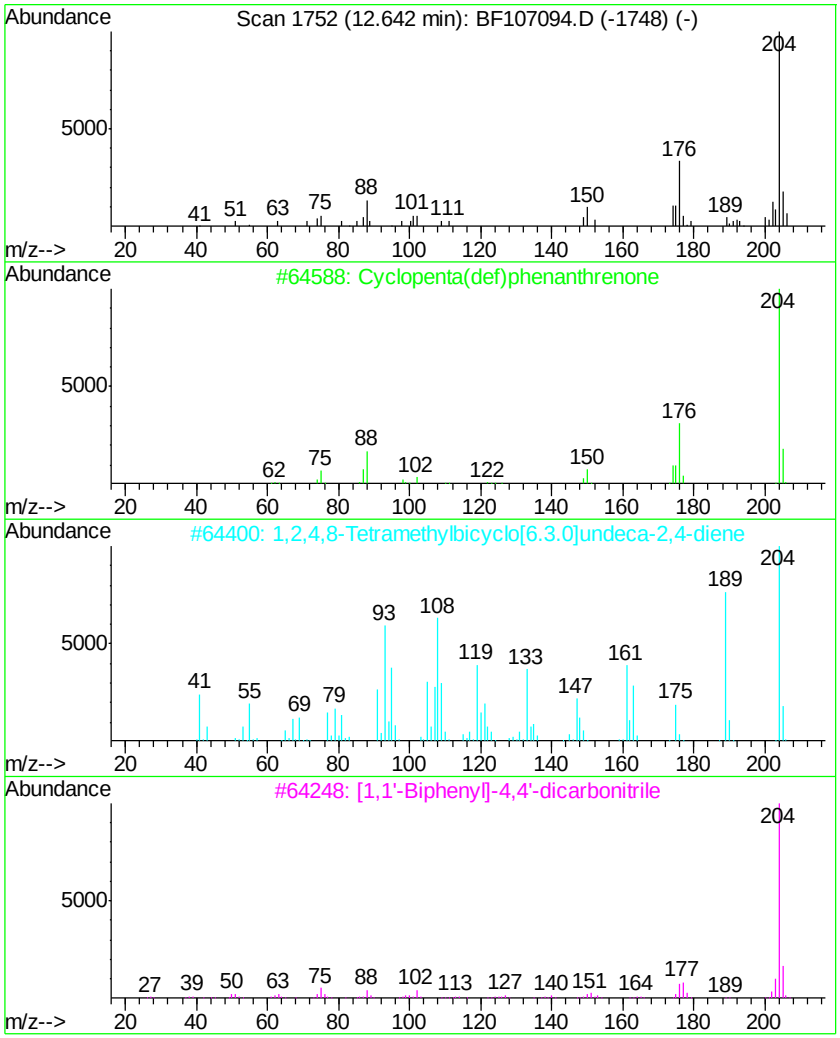
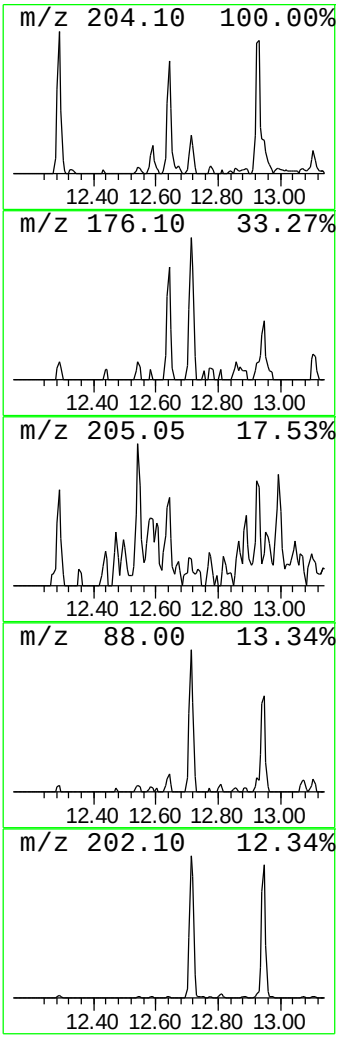
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	2.83 ng	52259	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	87
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	Isoquinoline, 1-phenyl-	205	C15H11N	003297-72-1	53
5	4-Phosphacyclopentene, 4-mesityl-	204	C13H17P	214605-01-3	53





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Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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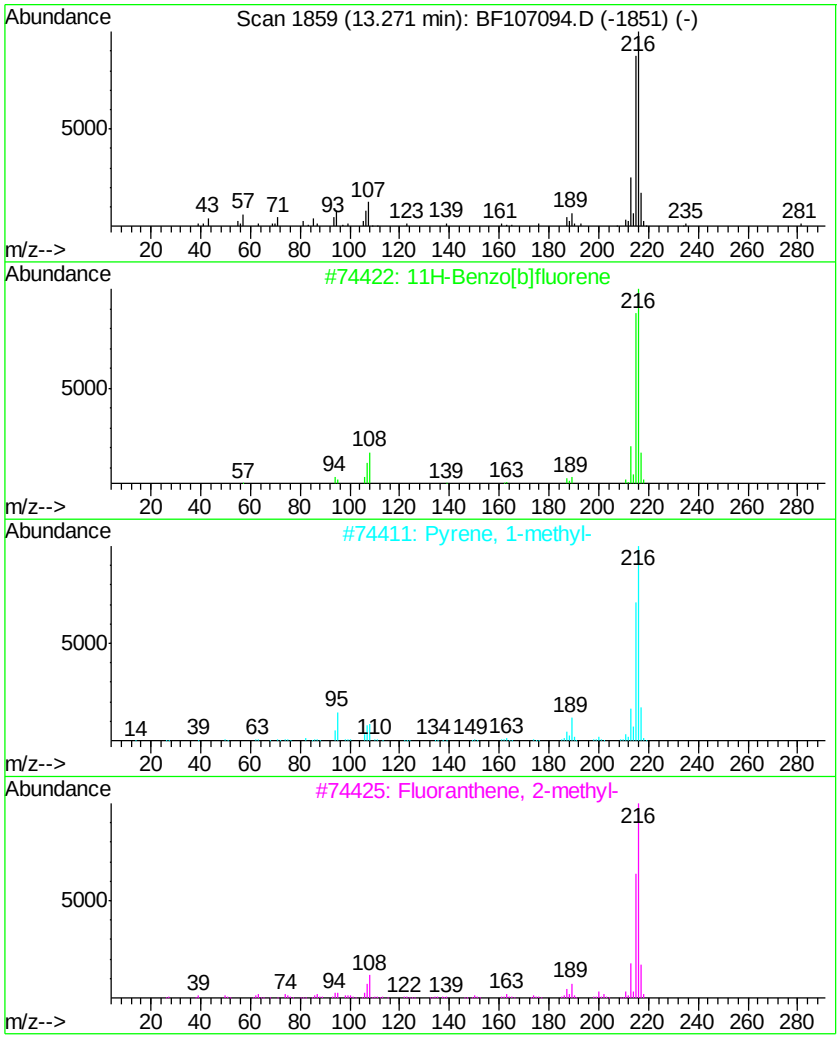
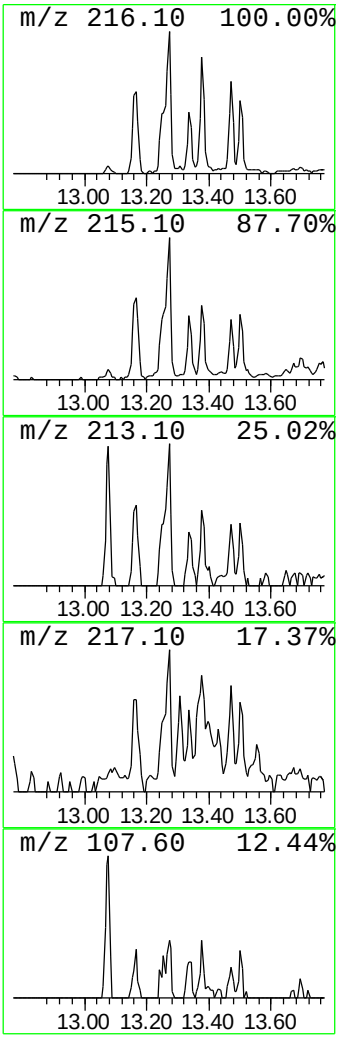
Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	3.65 ng	118918	Chrysene-d12	14.15

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	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5	1,3,5-Triazine-2,4,6-triamine, N...	216	C10H12N6	046731-79-7	64





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Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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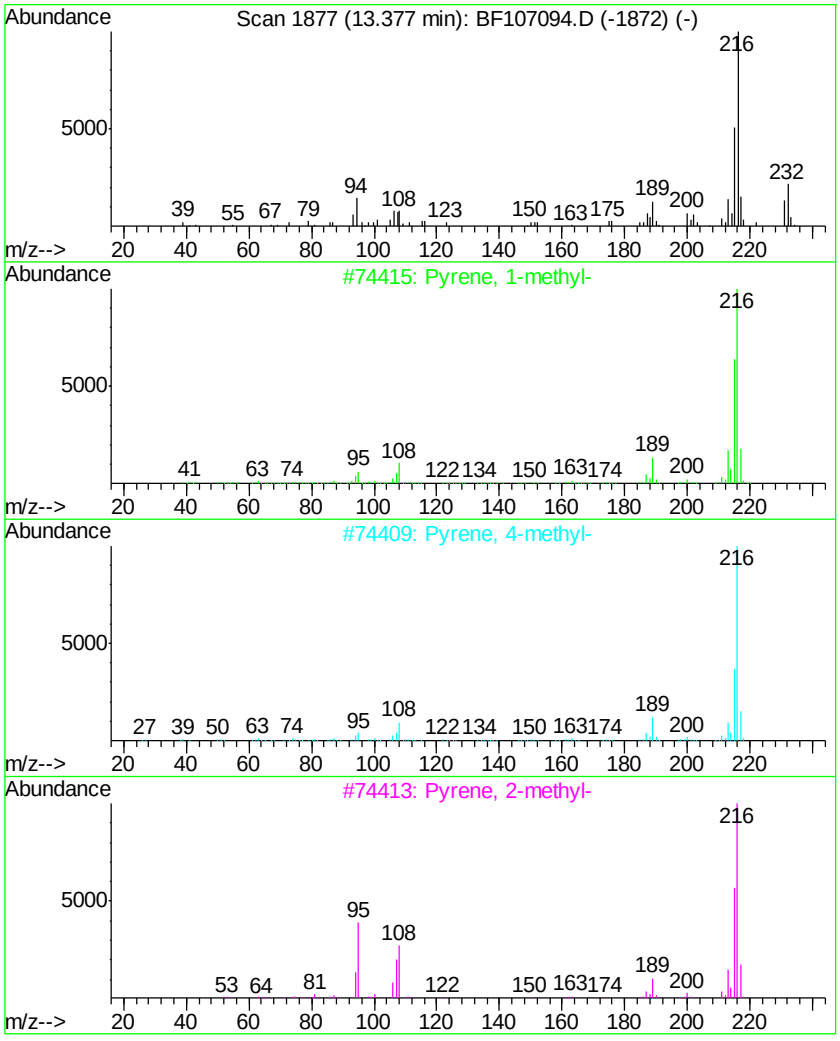
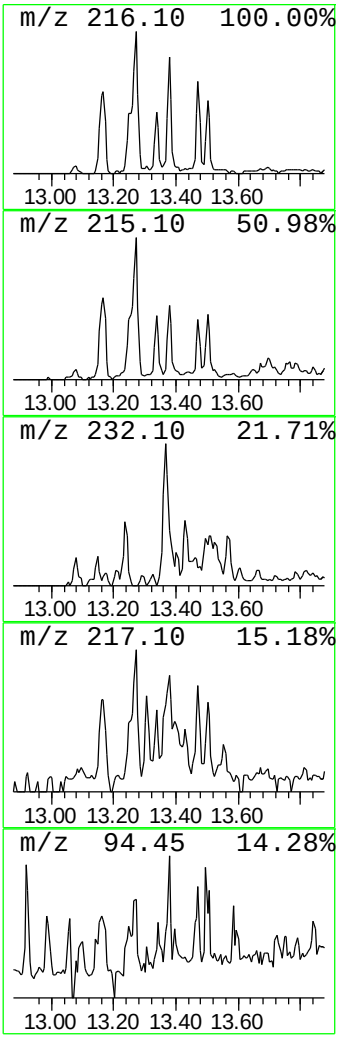
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.38	2.30 ng	74958	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76





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Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

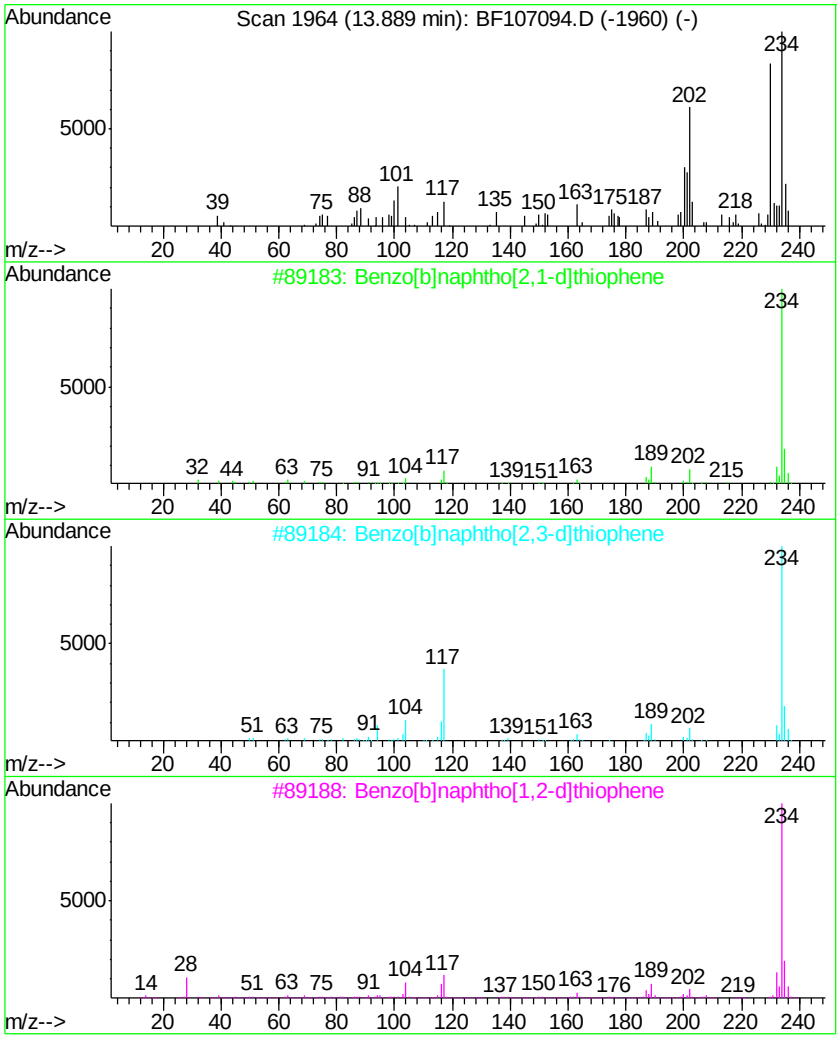
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

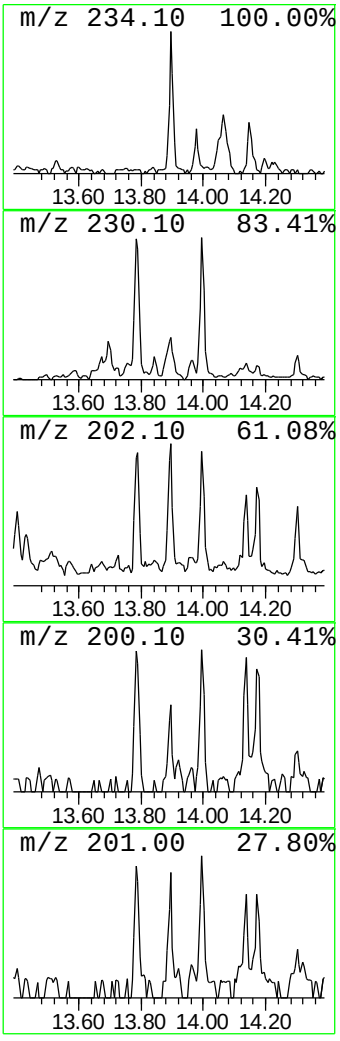
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	2.05 ng	66635	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	64
3	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	53
4	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	49
5	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	47





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF070318\
Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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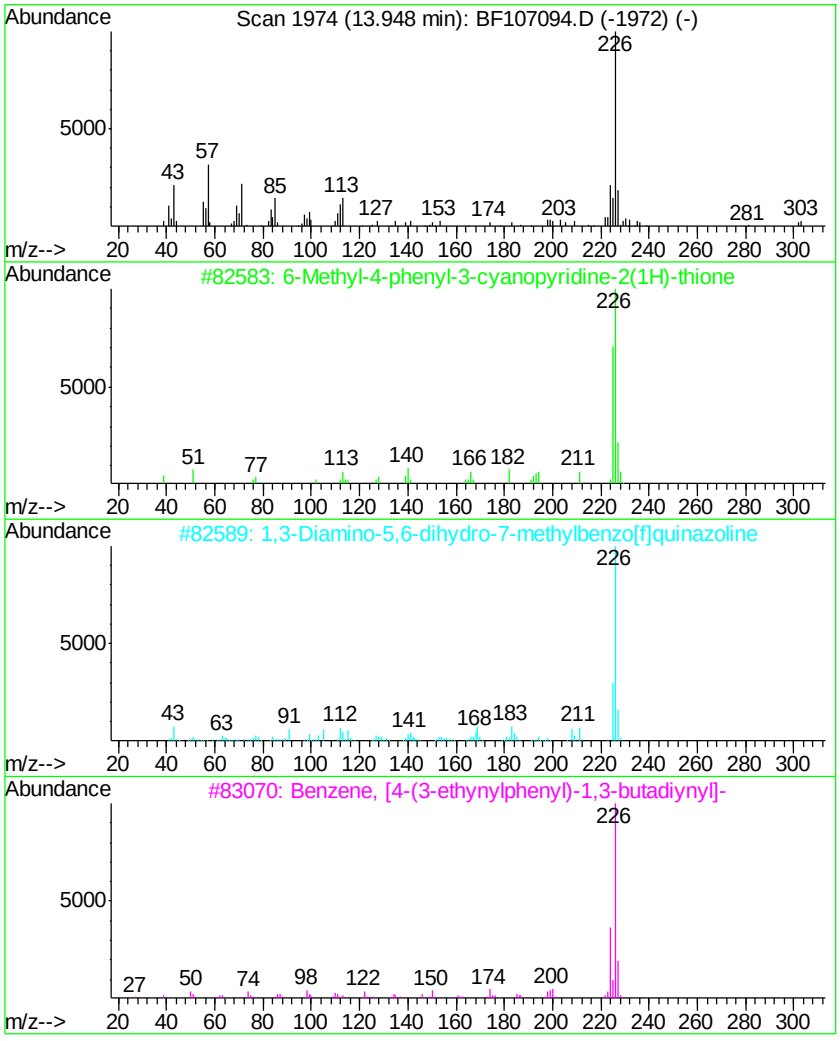
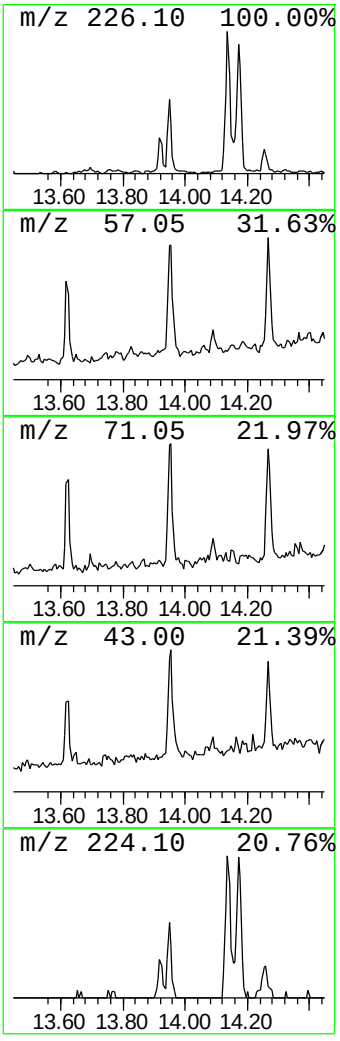
Peak Number 14 unknown13.95 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	2.72 ng	88683	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Methyl-4-phenyl-3-cyanopyridin...	226	C13H10N2S	078564-23-5	43
2	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	38
3	Benzene, [4-(3-ethynylphenyl)-1,...	226	C18H10	1000115-87-3	38
4	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	38
5	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	35





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Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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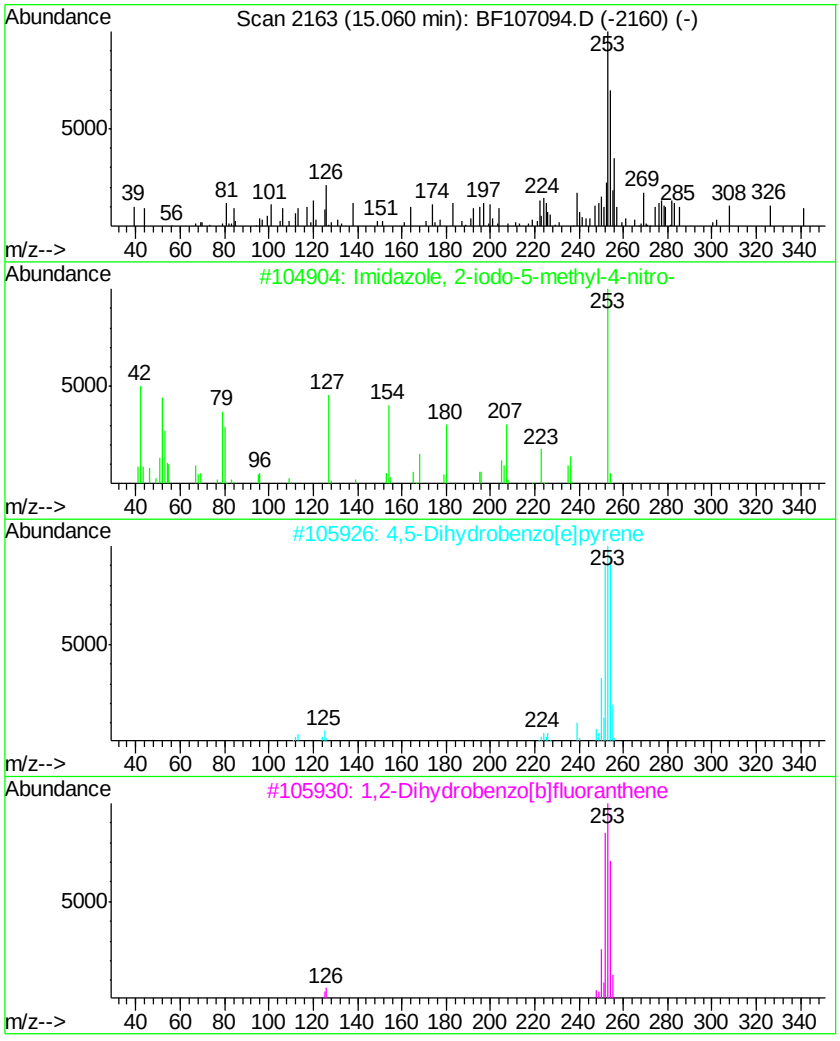
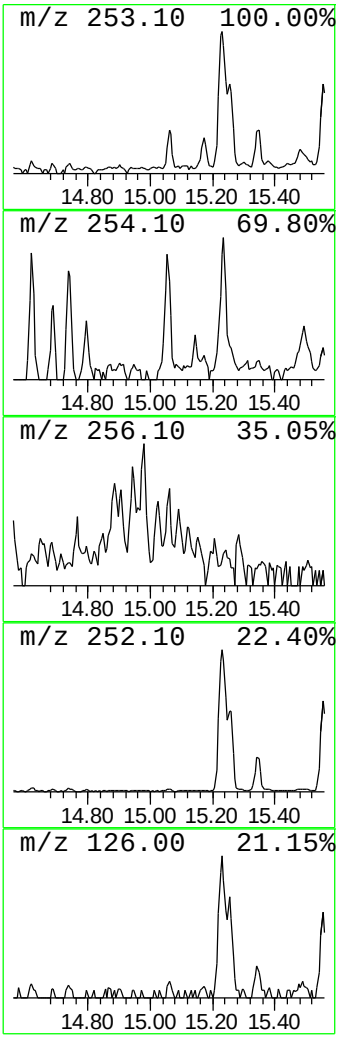
Peak Number 15 Imidazole, 2-iodo-5-methyl-... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	2.11 ng	24255	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Imidazole, 2-iodo-5-methyl-4-nitro-	253	C4H4IN3O2	149510-86-1	86
2	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	46
3	1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	46
4	1H-Indene, 1,1'-(1,2-ethanediyli...	254	C20H14	072088-04-1	46
5	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	46





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Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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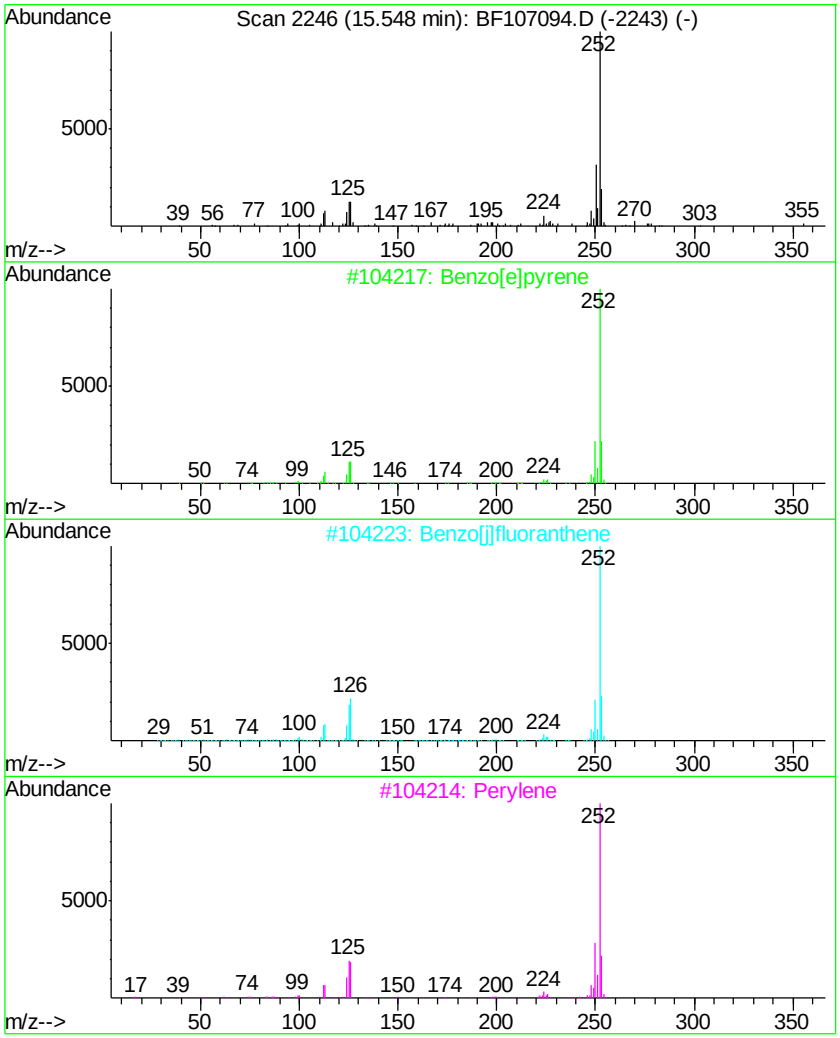
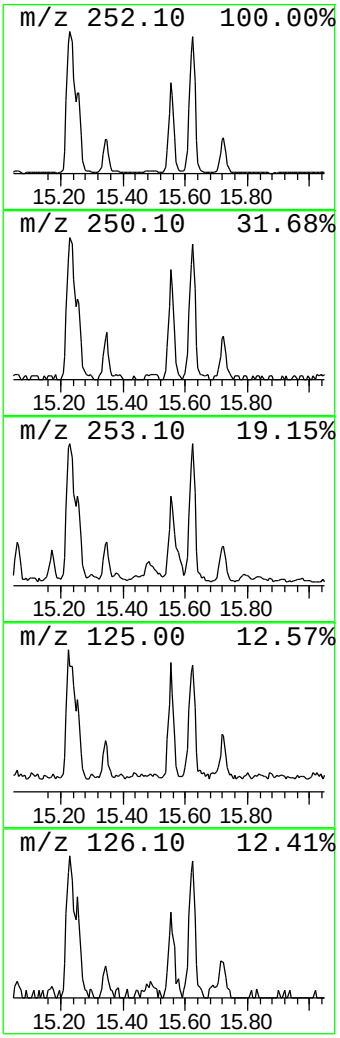
Peak Number 17 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	11.68 ng	134141	Perylene-d12	15.69

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[j]fluoranthene	252	C20H12	000205-82-3	96
3	Perylene	252	C20H12	000198-55-0	96
4	Benzo[a]pyrene	252	C20H12	000050-32-8	96
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95





Tentatively Identified Compound (LSC) summary

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Data File : BF107094.D
Acq On : 3 Jul 2018 20:46
Operator : JU/SJ
Sample : J3840-12
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-4-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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
2-Pentanone, 4-hy...	5.19	7.9	ng	110675	1	6.95	281368	20.0
unknown6.74	6.74	65.8	ng	926290	1	6.95	281368	20.0
Phenanthrene, 2-m...	12.00	2.7	ng	50455	4	11.50	368915	20.0
Phenanthrene, 1-m...	12.02	3.7	ng	67971	4	11.50	368915	20.0
4H-Cyclopenta[def...	12.11	5.6	ng	102497	4	11.50	368915	20.0
5,16[1',2']:8,13[...	12.29	2.2	ng	40456	4	11.50	368915	20.0
Phenanthrene, 2,5...	12.54	3.5	ng	63683	4	11.50	368915	20.0
Cyclopenta(def)ph...	12.64	2.8	ng	52259	4	11.50	368915	20.0
11H-Benzo[b]fluorene	13.27	3.6	ng	118918	5	14.15	651574	20.0
Pyrene, 1-methyl-	13.38	2.3	ng	74958	5	14.15	651574	20.0
Benzo[b]naphtho[2...	13.89	2.0	ng	66635	5	14.15	651574	20.0
unknown13.95	13.95	2.7	ng	88683	5	14.15	651574	20.0
Imidazole, 2-iodo...	15.06	2.1	ng	24255	6	15.69	229745	20.0
Benzo[e]pyrene	15.55	11.7	ng	134141	6	15.69	229745	20.0