LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

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-BF072018.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	5.201	482	487	511	rBV	344196	569825	3.82%	0.268%
2	5.596	551	554	576	rBV	2094033	3260592	21.88%	1.531%
3	6.601	721	725	744	rBV	2027162	3654395	24.52%	1.716%
4	6.737	744	748	772	rVB	2805354	3973812	26.66%	1.866%
5	6.966	783	787	802	rBV	434498	865713	5.81%	0.406%
6	7.113	808	812	828	rBV	2323945	2805348	18.82%	1.317%
7	7.525	878	882	906	rBV	1447767	2473110	16.59%	1.161%
8	8.242	1000	1004	1006	rBV	929579	945097	6.34%	0.444%
9	8.260	1006	1007	1031	rVB	478681	788117	5.29%	0.370%
10	9.313	1182	1186	1195	rBV	3544581	3986426	26.75%	1.872%
11	9.584	1227	1232	1238	rVV	188024	315241	2.12%	0.148%
12	9.654	1240	1244	1247	rVV	310366	386073	2.59%	0.181%
13	9.707	1250	1253	1260	rVV	248966	377926	2.54%	0.177%
14	10.001	1299	1303	1306	rBV	1056095	1065806	7.15%	0.500%
15	10.031	1306	1308	1317	rVB	1988566	1909800	12.81%	0.897%
16	10.207	1333	1338	1341	rBV2	573155	742599	4.98%	0.349%
17	10.407	1367	1372	1381	rBV2	262588	388714	2.61%	0.182%
18	10.548	1392	1396	1402	rBV	1603539	2050099	13.76%	0.963%
19	10.613	1405	1407	1409	rVV	338876	388102	2.60%	0.182%
20	10.636	1409	1411	1413	rVV	412768	398291	2.67%	0.187%
21	10.707	1420	1423	1428	rVB	497497	535574	3.59%	0.251%
22	10.795	1433	1438	1444	rBV2	2435196	3098616	20.79%	1.455%
23	10.889	1450	1454	1463	rVB4	223571	451623	3.03%	0.212%
24	11.095	1483	1489	1492	rBV	500986	764867	5.13%	0.359%
25	11.125	1492	1494	1497	rVV	272999	340735	2.29%	0.160%
26	11.225	1506	1511	1513	rVV3	309370	454992	3.05%	0.214%
27	11.248	1513	1515	1521	rVV2	317127	389360	2.61%	0.183%
28	11.336	1527	1530	1537	rBV3	401849	596668	4.00%	0.280%
29	11.395	1537	1540	1550	rVB	787680	1011763	6.79%	0.475%
30	11.536	1554	1564	1569	rBV2	6857308	12917924	86.68%	6.065%
31	11.583	1569	1572	1583	rVB	4229931	4832595	32.43%	2.269%
32	11.736	1593	1598	1604	rBV3	590567	1104399	7.41%	0.519%
33	11.783	1604	1606	1611	rVV	334235	378025	2.54%	0.177%
34	11.830	1611	1614	1620	rVB3	165498	294035	1.97%	0.138%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
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Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

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-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.001	1639	1643	1645	rBV	1673113	1835442	12.32%	0.862%
36	12.030	1645	1648	1653	rVV	2048738	2262549	15.18%	1.062%
37	12.077	1653	1656	1659	rVV	1031743	998487	6.70%	0.469%
38	12.119	1659	1663	1670	rVB2	3050920	4517201	30.31%	2.121%
39	12.295	1689	1693	1697	rBV	1128993	1145826	7.69%	0.538%
40	12.442	1715	1718	1721	rBV	333721	321114	2.15%	0.151%
41	12.548	1733	1736	1740	rBV2	698178	1007341	6.76%	0.473%
42	12.595	1741	1744	1749	rVB2	432518	675782	4.53%	0.317%
43	12.654	1749	1754	1761	rVB2	344172	681851	4.58%	0.320%
44	12.742	1761	1769	1774	rBV	6905793	14115788	94.71%	6.627%
45	12.877	1788	1792	1795	rBV	604468	673904	4.52%	0.316%
46	12.977	1799	1809	1811	rBV3	6593765	14903740	100.00%	6.997%
47	12.995	1811	1812	1819	rVB2	952723	1055530	7.08%	0.496%
48	13.083	1821	1827	1830	rBV2	2948300	3686333	24.73%	1.731%
49	13.113	1830	1832	1836	rVB	586454	646309	4.34%	0.303%
50	13.172	1836	1842	1846	rVB2	917871	1607235	10.78%	0.755%
51	13.213	1846	1849	1852	rVB	227951	276728	1.86%	0.130%
52	13.254	1852	1856	1857	rBV3	697360	840141	5.64%	0.394%
53	13.283	1857	1861	1865	rVV	2695546	3040105	20.40%	1.427%
54	13.348	1868	1872	1874	rVV	2648638	2757495	18.50%	1.295%
55	13.383	1874	1878	1880	rVV2	1338524	1971358	13.23%	0.926%
56	13.407	1880	1882	1885	rVV	863560	923659	6.20%	0.434%
57	13.436	1885	1887	1890	rVV2	410005	359944	2.42%	0.169%
58	13.477	1890	1894	1896	rVV	629298	620212	4.16%	0.291%
59	13.507	1896	1899	1907	rVB2	844346	1249312	8.38%	0.587%
60	13.630	1917	1920	1924	rBV3	203582	319576	2.14%	0.150%
61	13.677	1925	1928	1929	rVV3	317651	309480	2.08%	0.145%
62	13.701	1929	1932	1935	rVV	448006	566923	3.80%	0.266%
63	13.760	1938	1942	1945	rBV3	464122	670646	4.50%	0.315%
64	13.789	1945	1947	1951	rVB	447153	513666	3.45%	0.241%
65	13.901	1962	1966	1968	rBV	1265789	1321364	8.87%	0.620%
66	13.924	1968	1970	1973	rVV	1376084	1531518	10.28%	0.719%
67	13.954	1973	1975	1982	rVB3	1354704	2121645	14.24%	0.996%
68	14.071	1990	1995	2001	rBV	399079	700849	4.70%	0.329%
69	14.154	2001	2009	2013	rBV3	5438081	11928898	80.04%	5.601%
70	14.195	2013	2016	2022	rVV	5373303	7150691	47.98%	3.357%
71	14.266	2025	2028	2033	rVV	2431208	2719932	18.25%	1.277%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

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

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Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.307	2033	2035	2041	rVV4	339805	515038	3.46%	0.242%
73	14.354	2041	2043	2044	rVV	567229	469192	3.15%	0.220%
74	14.389	2047	2049	2052	rVB	607494	514232	3.45%	0.241%
75	14.501	2065	2068	2070	rVV	584216	663472	4.45%	0.311%
76	14.542	2070	2075	2078	rVV	1632153	2476126	16.61%	1.163%
77	14.571	2078	2080	2085	rVV2	924302	1279479	8.58%	0.601%
78	14.618	2085	2088	2090	rVV2	552602	807878	5.42%	0.379%
79	14.642	2090	2092	2095	rVV3	1016504	1231833	8.27%	0.578%
80	14.671	2095	2097	2098	rVV	1024963	946086	6.35%	0.444%
81	14.695	2098	2101	2104	rVV2	1314101	1650322	11.07%	0.775%
82	14.730	2104	2107	2114	rVB4	557882	1064800	7.14%	0.500%
83	14.877	2127	2132	2134	rBV3	588150	978143	6.56%	0.459%
84	15.066	2160	2164	2170	rBV2	655889	1028893	6.90%	0.483%
85	15.260	2187	2197	2199	rBV	4693184	10785907	72.37%	5.064%
86	15.360	2210	2214	2220	rVB	1557891	1901444	12.76%	0.893%
87	15.448	2225	2229	2230	rBV2	401266	544412	3.65%	0.256%
88	15.577	2244	2251	2257	rBV	2680203	5089064	34.15%	2.389%
89	15.660	2257	2265	2269	rVV	4059330	8064724	54.11%	3.786%
90	15.701	2269	2272	2275	rVV	523487	729105	4.89%	0.342%
91	15.742	2275	2279	2287	rVB	1999661	3039912	20.40%	1.427%
92	15.889	2299	2304	2306	rBV2	272478	542559	3.64%	0.255%
93	16.118	2339	2343	2347	rVB	396932	553957	3.72%	0.260%
94	16.295	2369	2373	2383	rVB2	549889	1066147	7.15%	0.501%
95	16.460	2397	2401	2412	rVB3	215561	544412	3.65%	0.256%
96	17.307	2535	2545	2551	rVB	1956986	5122629	34.37%	2.405%
97	17.471	2567	2573	2579	rBV	532026	1369186	9.19%	0.643%
98	17.536	2580	2584	2609	rVB3	540971	2361018	15.84%	1.108%
99	17.795	2616	2628	2639	rBV	1481616	4951091	33.22%	2.324%
100	18.036	2662	2669	2685	rVB	688395	2161000	14.50%	1.015%

Sum of corrected areas: 212996897

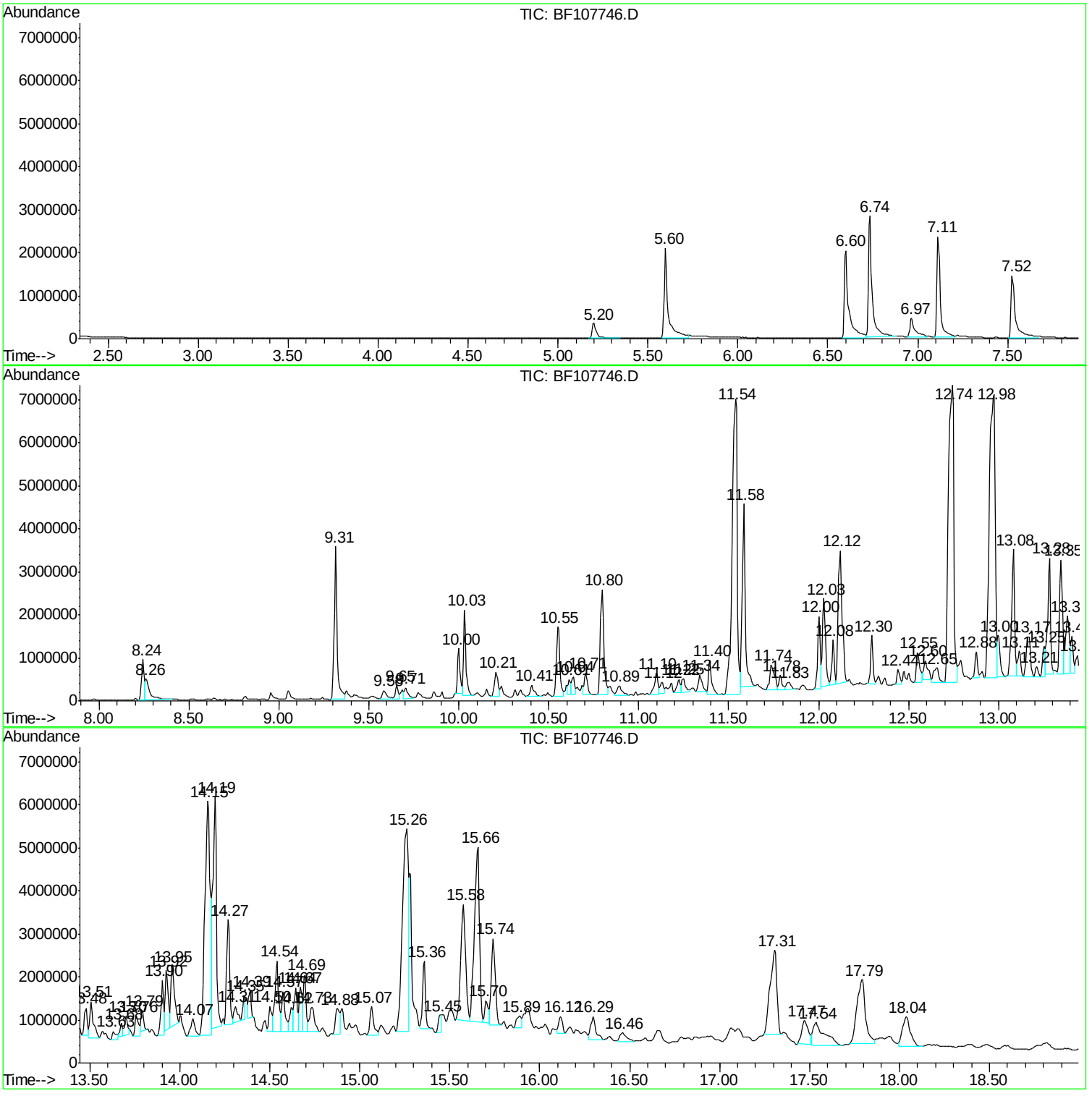
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
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Instrument : BNA_F
ClientSampleId : SB-1(3-5)

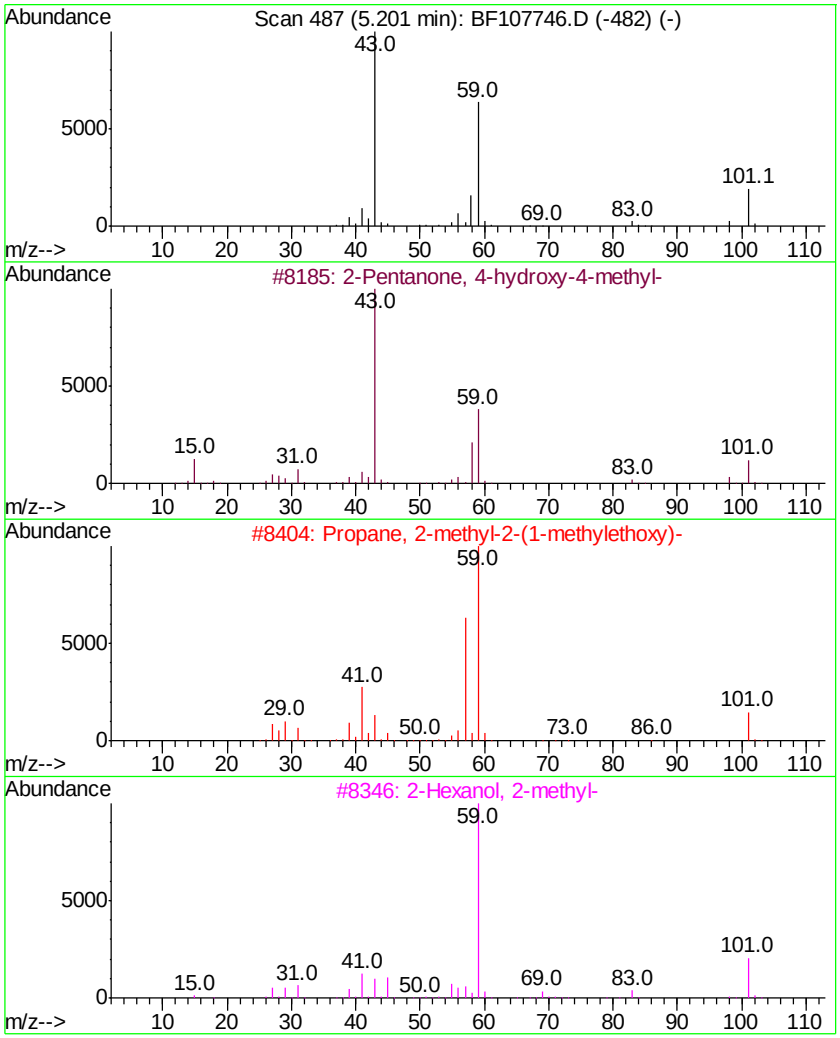
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

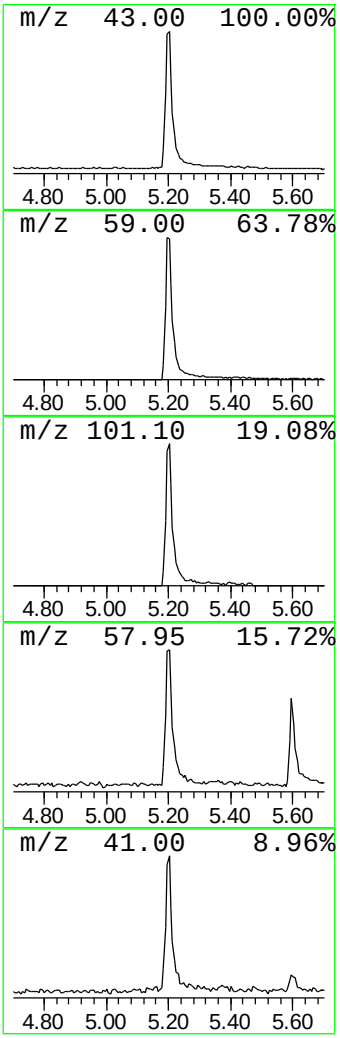
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.20	13.16 ng	569825	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	28
5	1,2-Butanediol	90	C4H10O2	000584-03-2	25





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

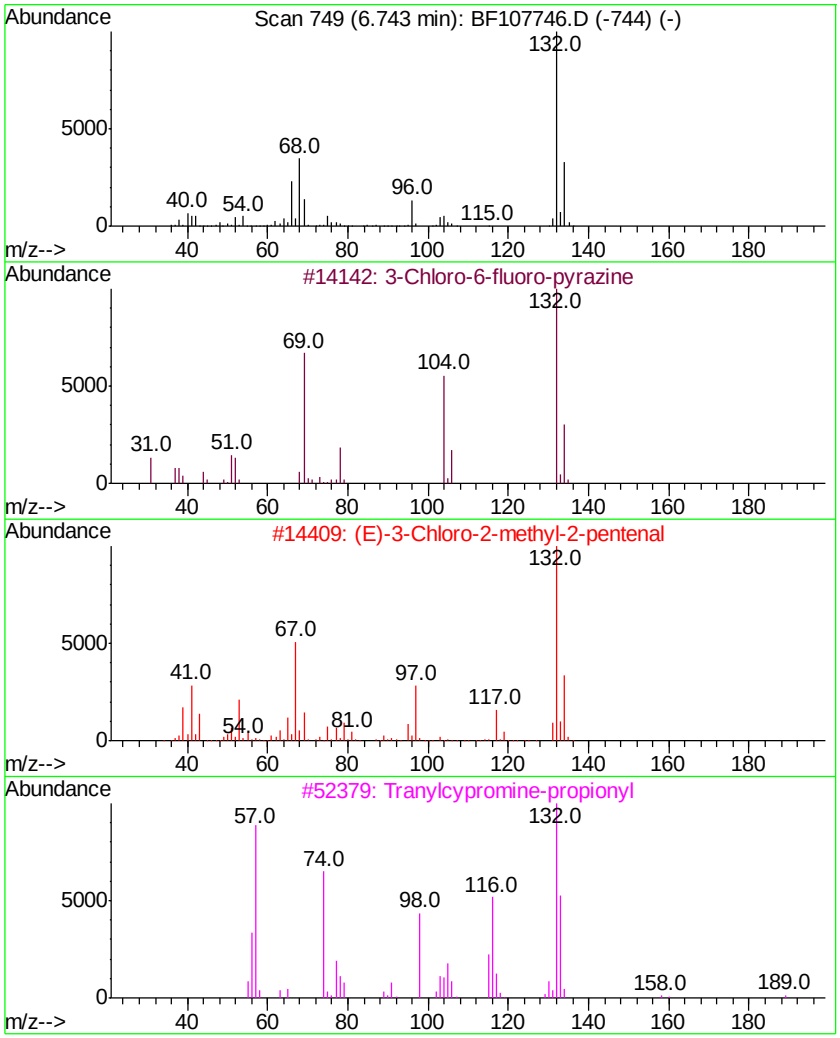
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

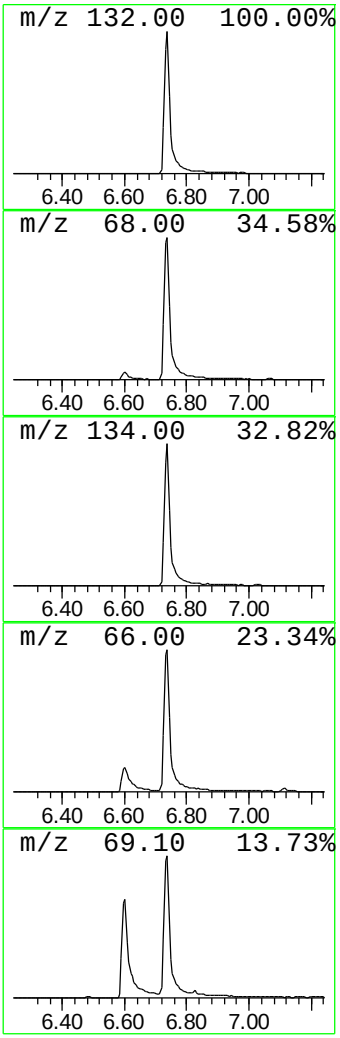
****

Peak Number 2 unknown6.74 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	91.80 ng	3973810	1,4-Dichlorobenzene-d4	6.97

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	25
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





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Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

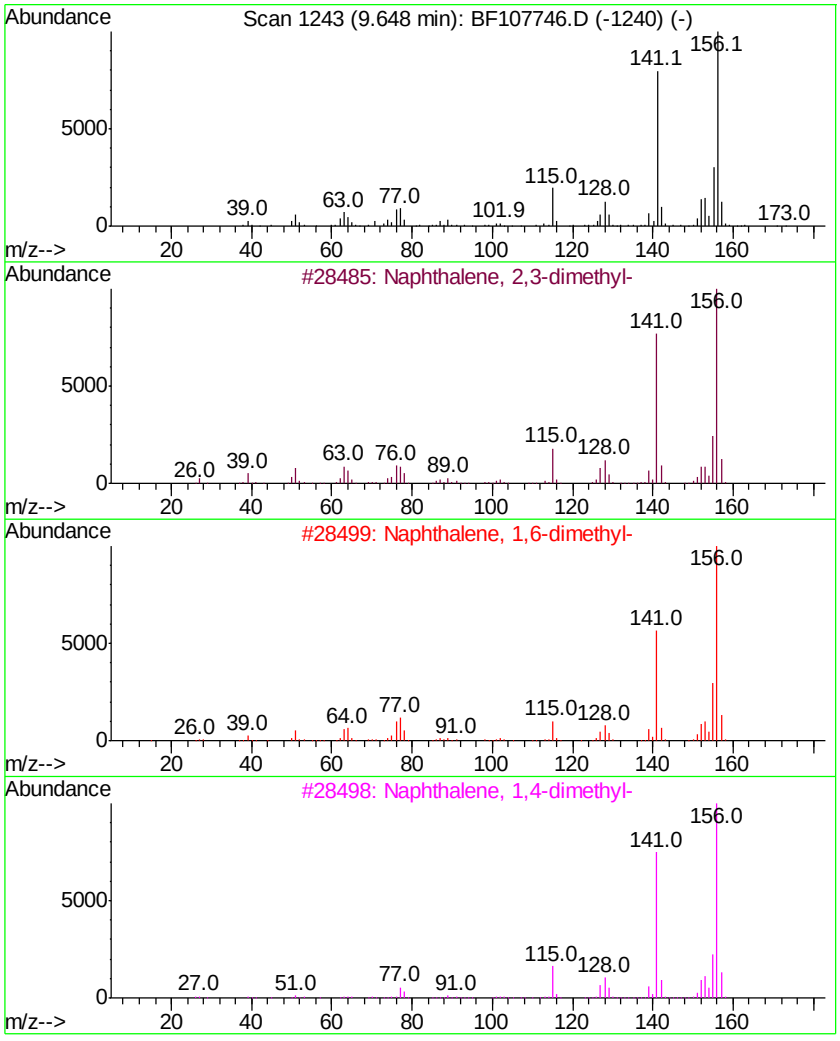
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

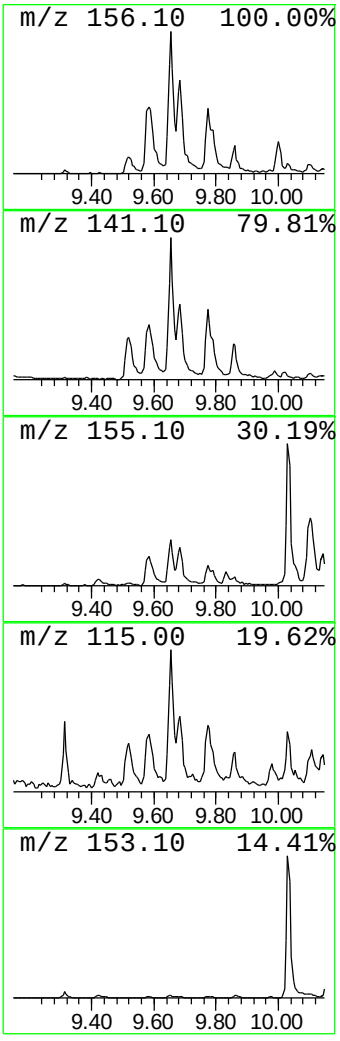
****

Peak Number 4 Naphthalene, 2,3-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	7.24 ng	386073	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

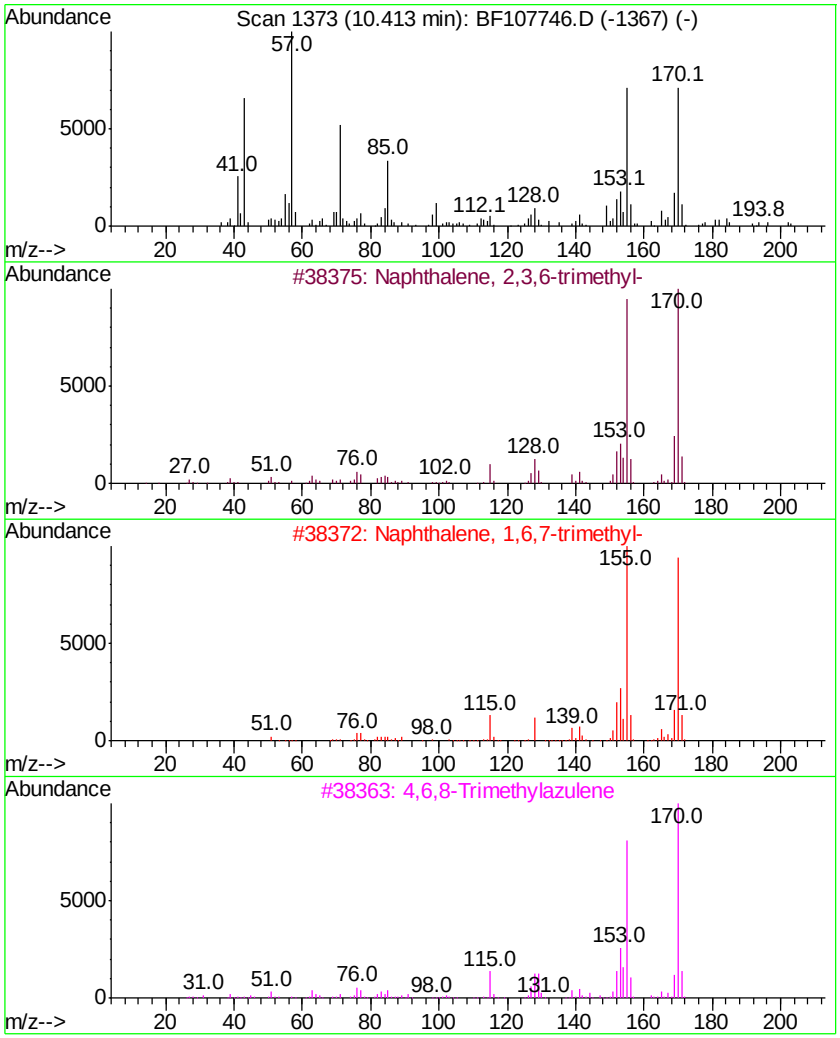
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

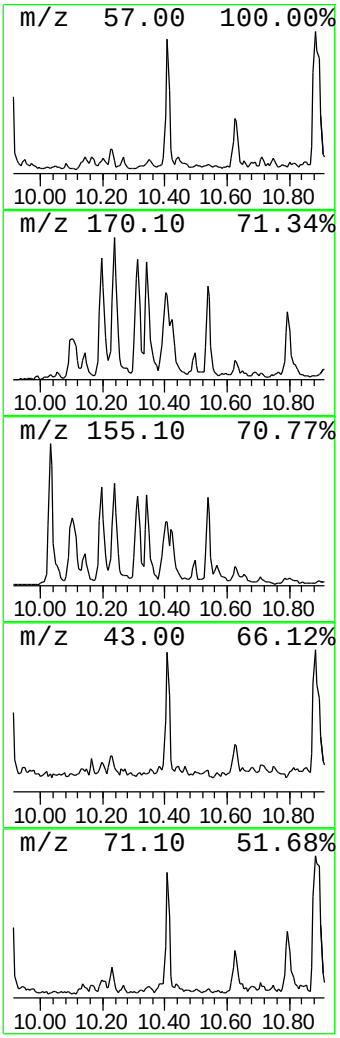
****

Peak Number 5 Naphthalene, 2,3,6-trimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.41	7.29 ng	388714	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	91
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	78
3	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	60
4	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	60
5	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	58





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

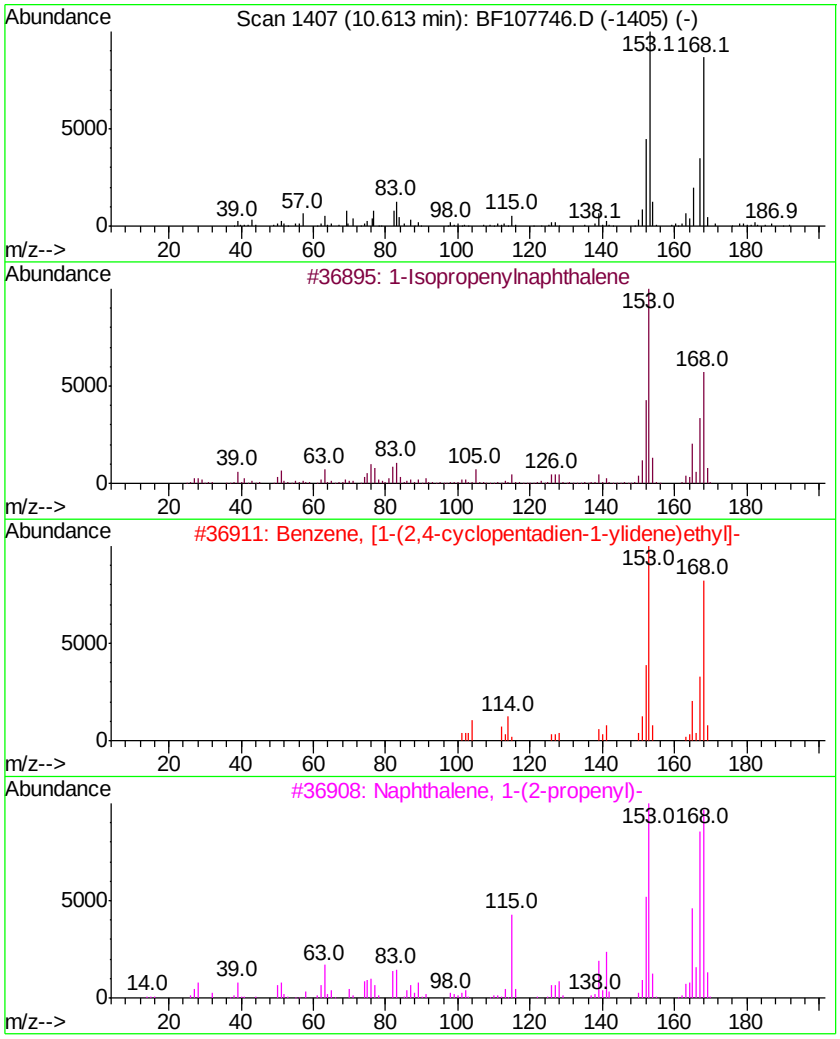
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

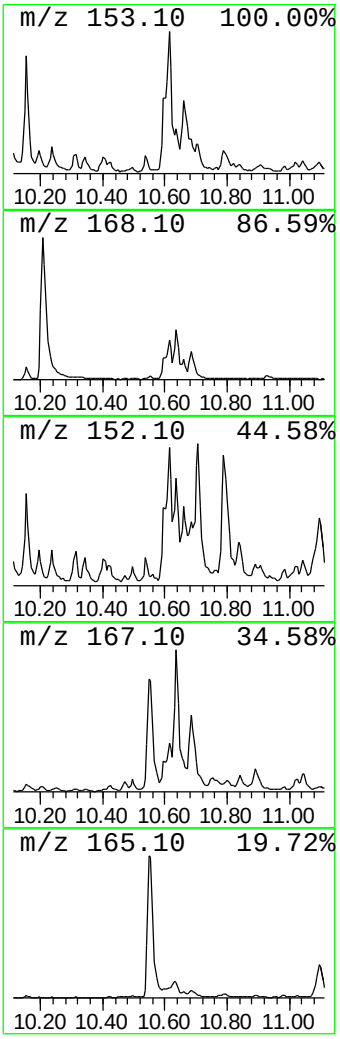
****

Peak Number 6 1-Isopropenylnaphthalene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.61	7.28 ng	388102	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	83
2	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	72
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	64
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	50
5	Thieno[2,3-b]thiophene, 2-ethyl-	168	C8H8S2	005912-01-6	50





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Operator : JU/SJ
Sample : J4143-01
Misc :
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ClientSampleId : SB-1(3-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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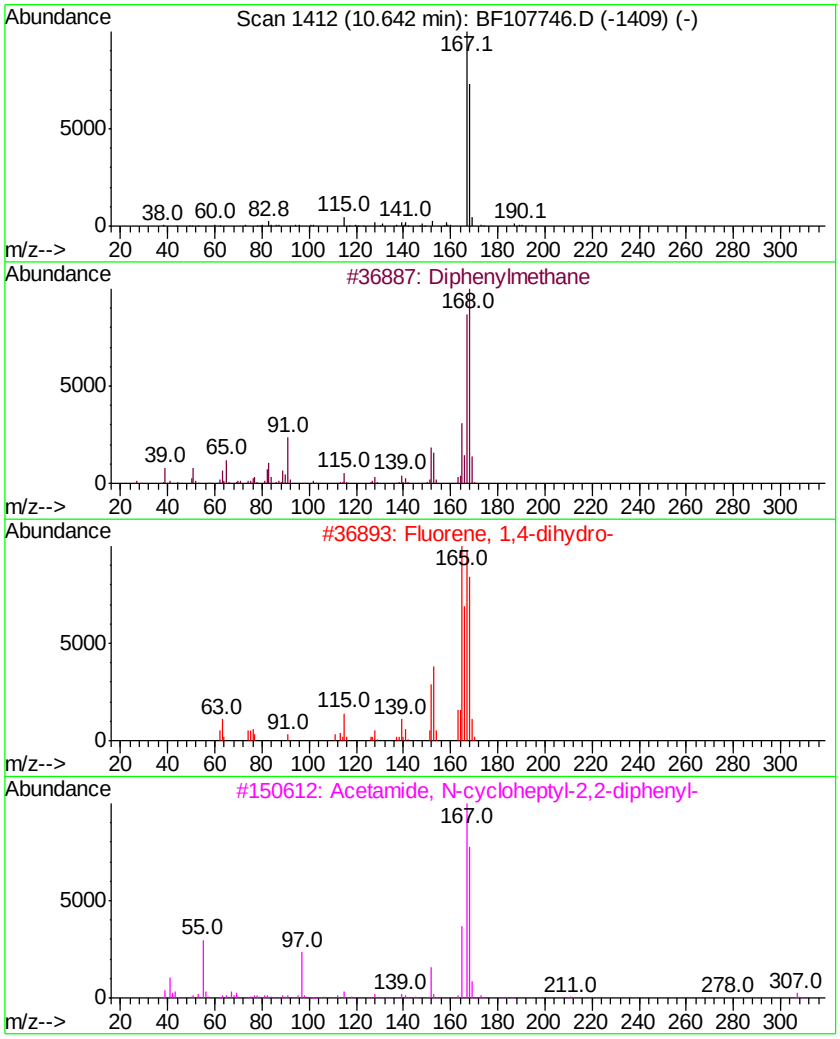
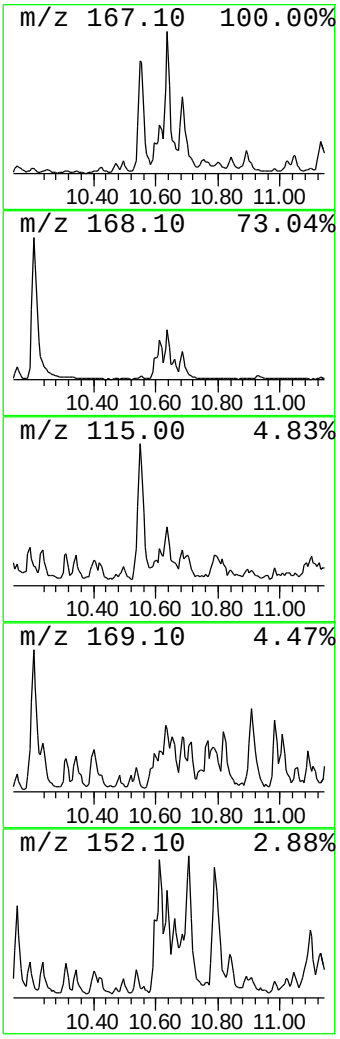
Peak Number 7 Diphenylmethane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.64	7.47 ng	398291	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Diphenylmethane	168	C13H12	000101-81-5	80
2	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	80
3	Acetamide, N-cycloheptyl-2,2-dip...	307	C21H25NO	351062-01-6	72
4	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	58
5	Benzeneacetamide, .alpha.-phenyl-	211	C14H13NO	004695-13-0	56





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Instrument : BNA_F
ClientSampleId : SB-1(3-5)

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

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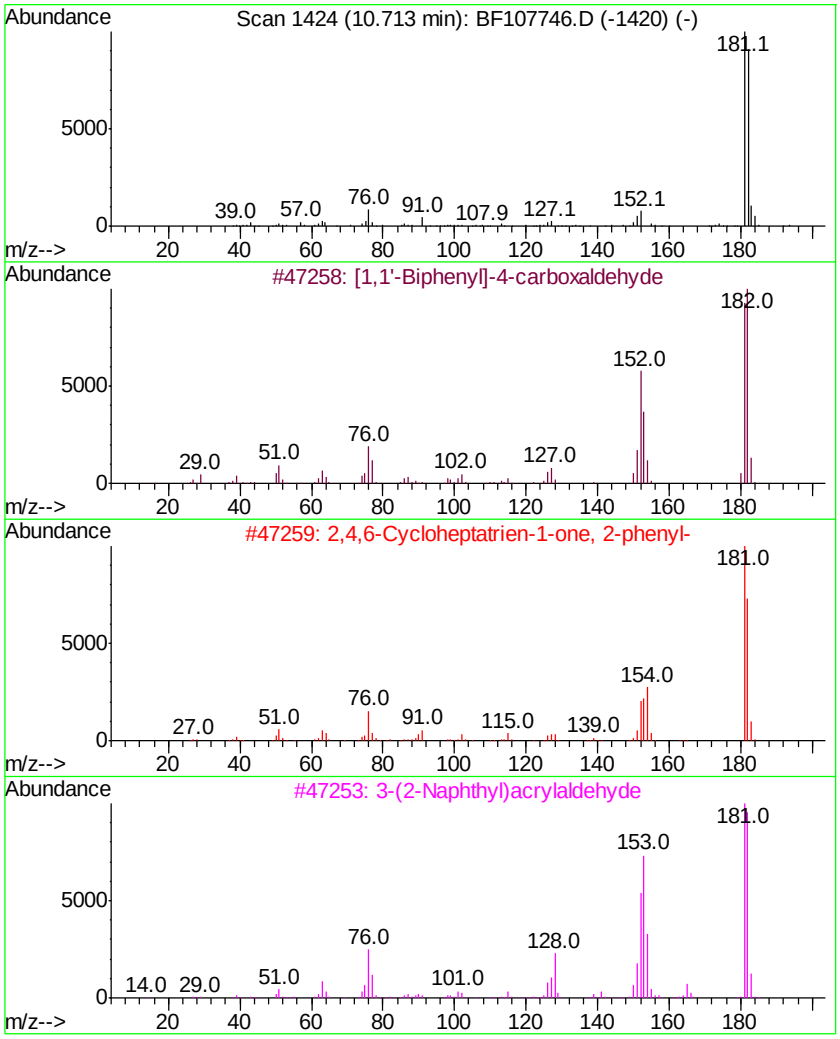
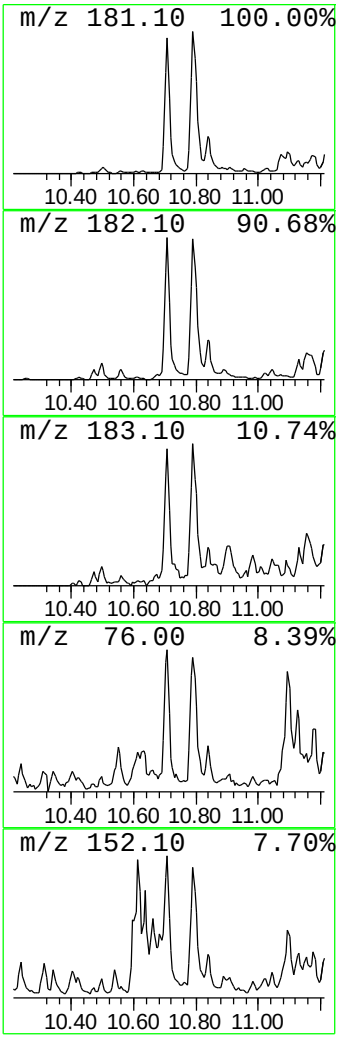
Peak Number 8 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.71	10.05 ng	535574	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
3	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	78
4	Pyridine, 4,4'-(1,2-ethenediyl)b...	182	C12H10N2	013362-78-2	72
5	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	68





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ClientSampleId : SB-1(3-5)

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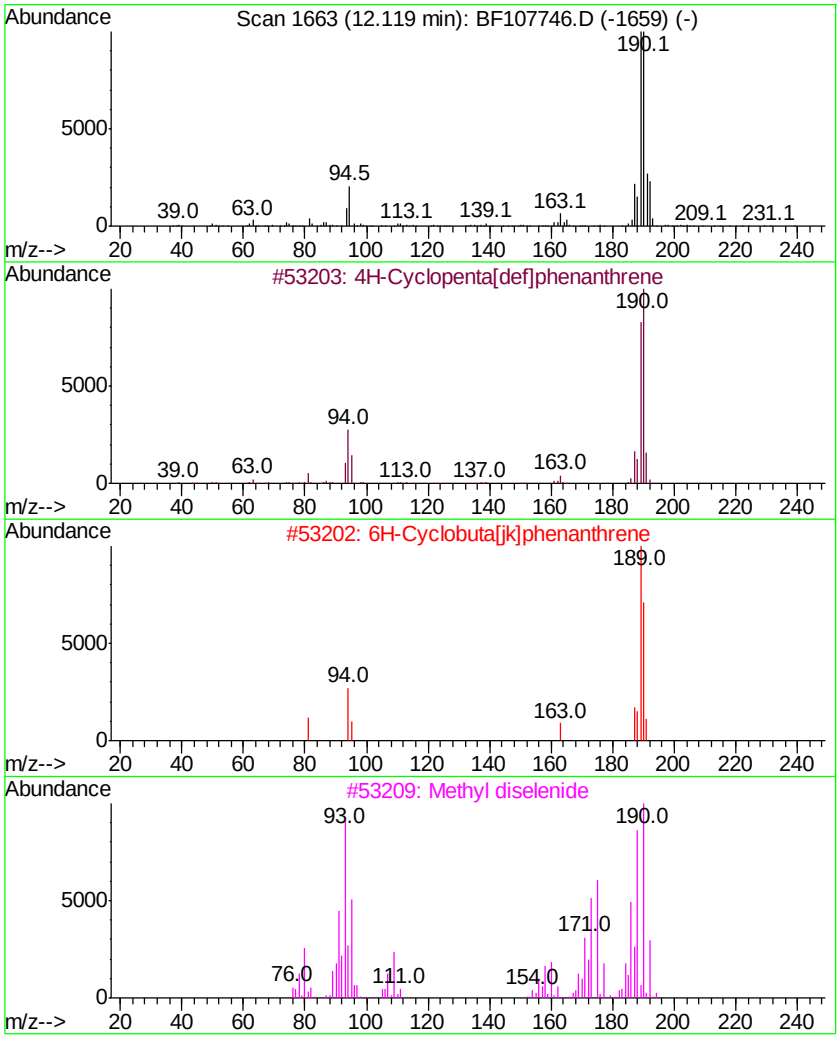
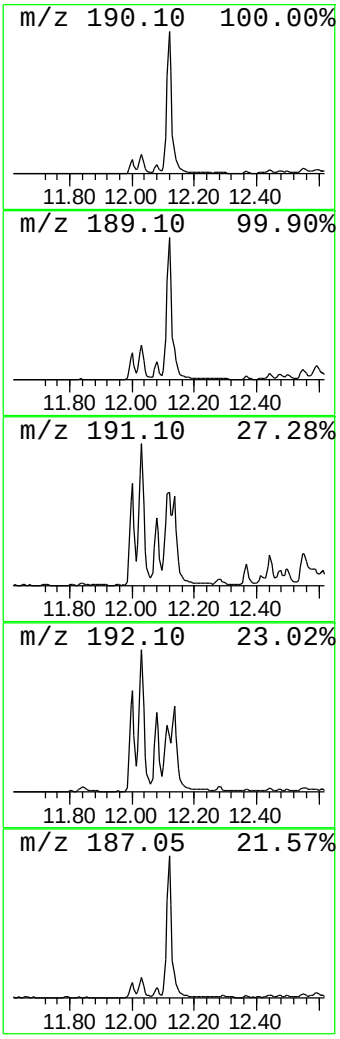
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	6.99 ng	4517200	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40





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Instrument : BNA_F
ClientSampleId : SB-1(3-5)

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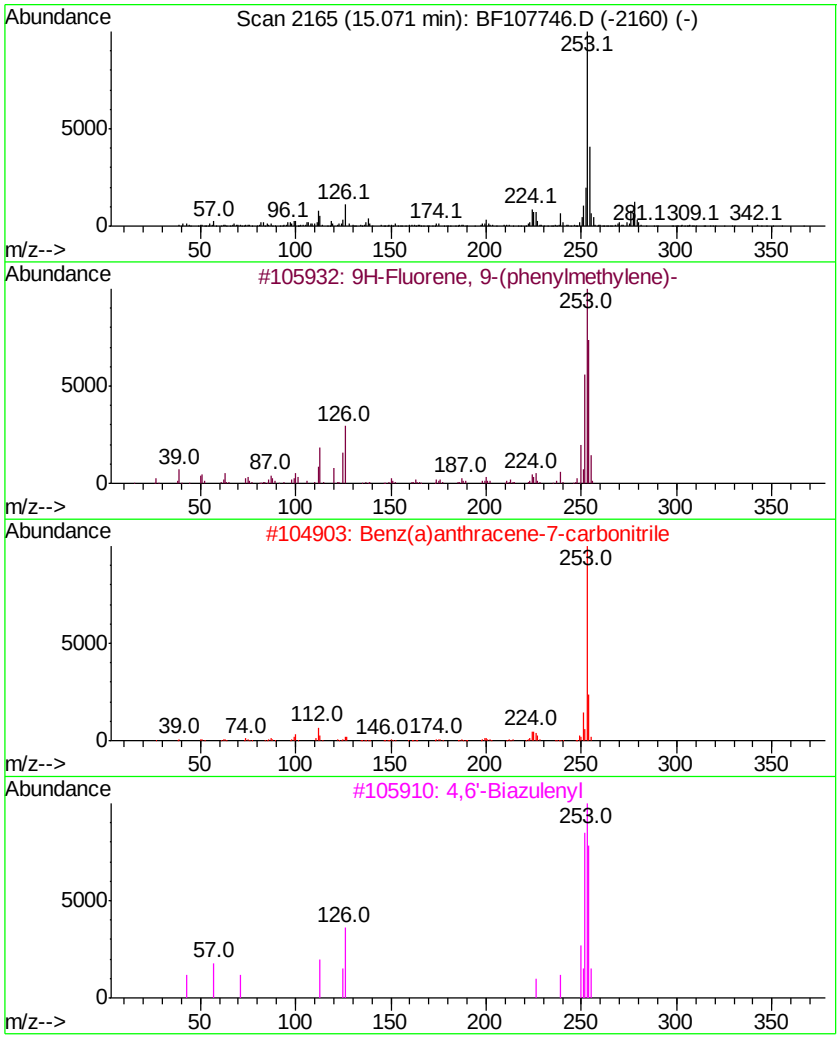
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

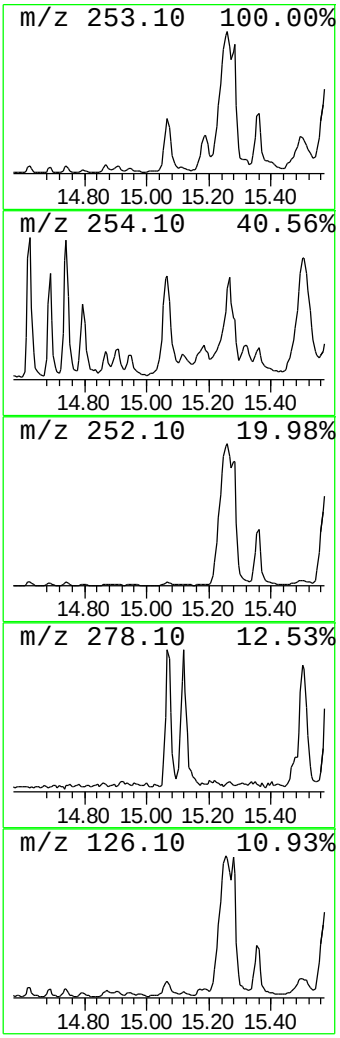
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 9H-Fluorene, 9-(phenylmethy... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	28.22 ng	1028890	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	58
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	55
3	4,6'-Biazulenyl	254	C20H14	094154-49-1	45
4	1,1'-Binaphthalene	254	C20H14	000604-53-5	43
5	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	38





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TIC Library : C:\DATABASE\NIST11.L
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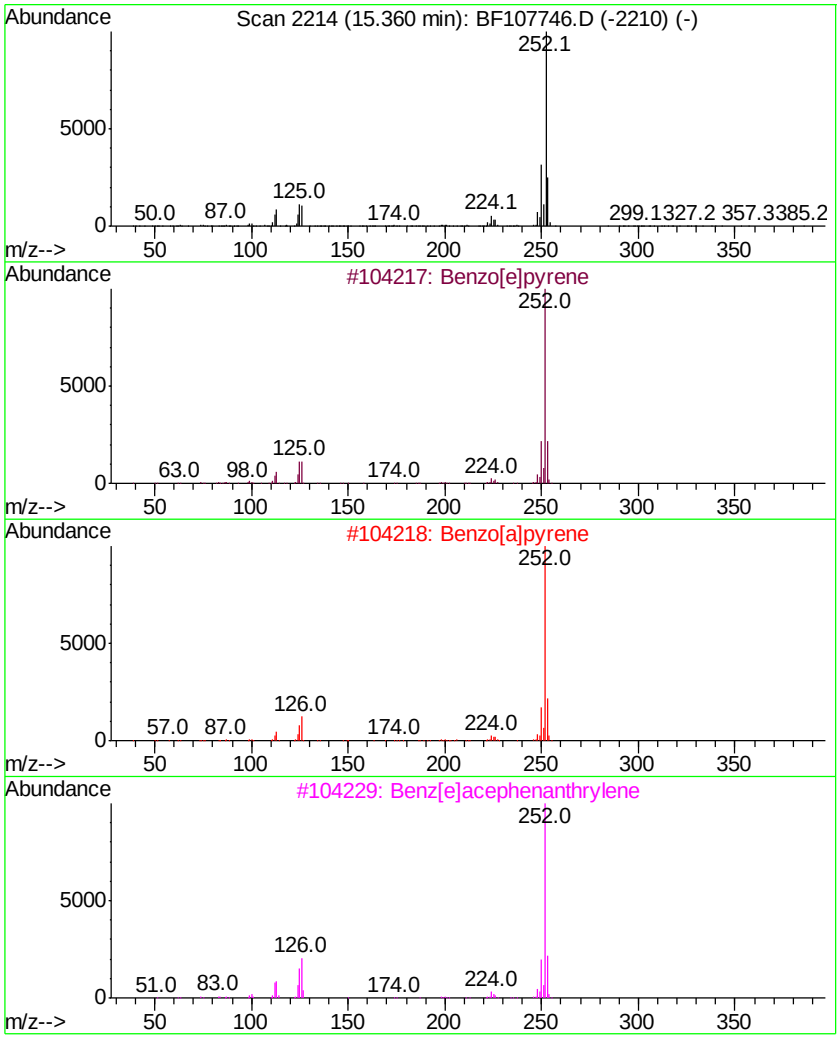
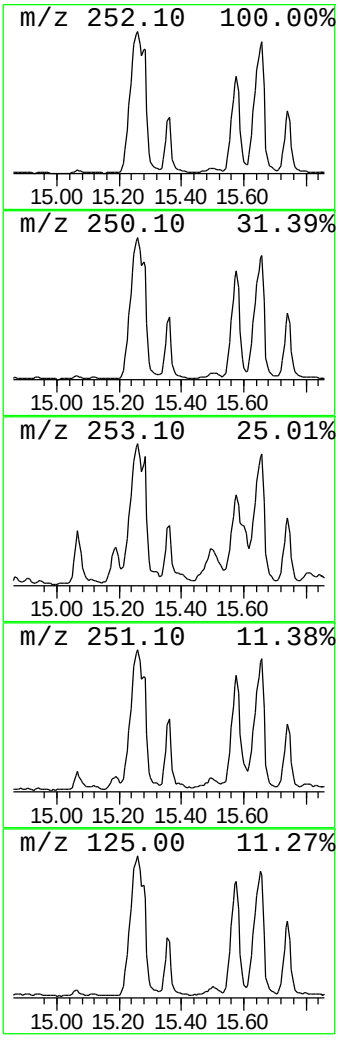
Peak Number 11 Perylene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	52.16 ng	1901440	Perylene-d12	15.71

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	93
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
4	Perylene	252	C20H12	000198-55-0	89
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	86





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ClientSampleId : SB-1(3-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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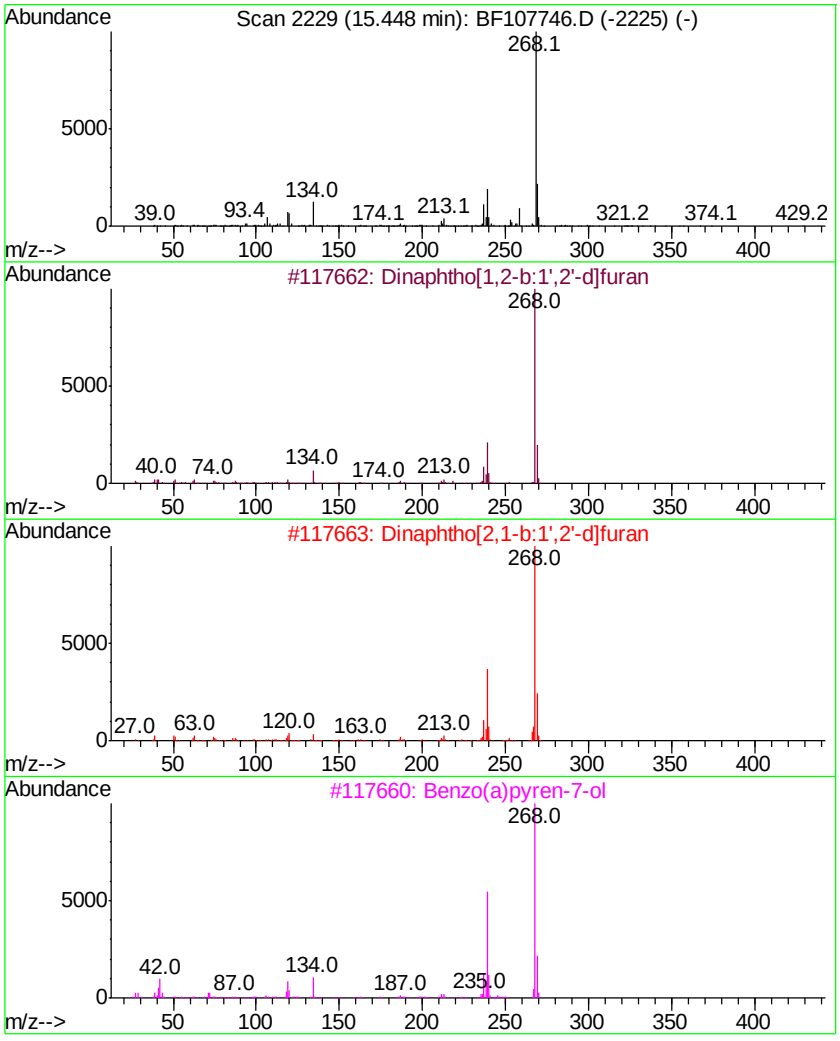
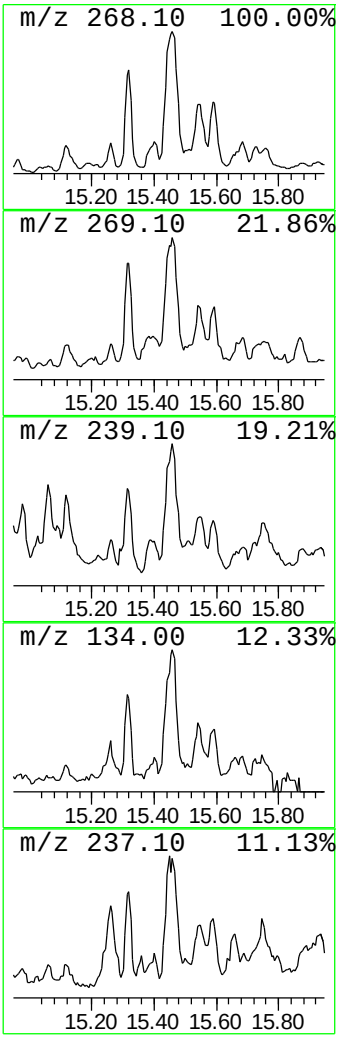
Peak Number 12 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.45	14.93 ng	544412	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	93
2	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	87
3	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	64
4	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
5	9-Benzylanthracene	268	C21H16	001498-71-1	53





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Operator : JU/SJ
Sample : J4143-01
Misc :
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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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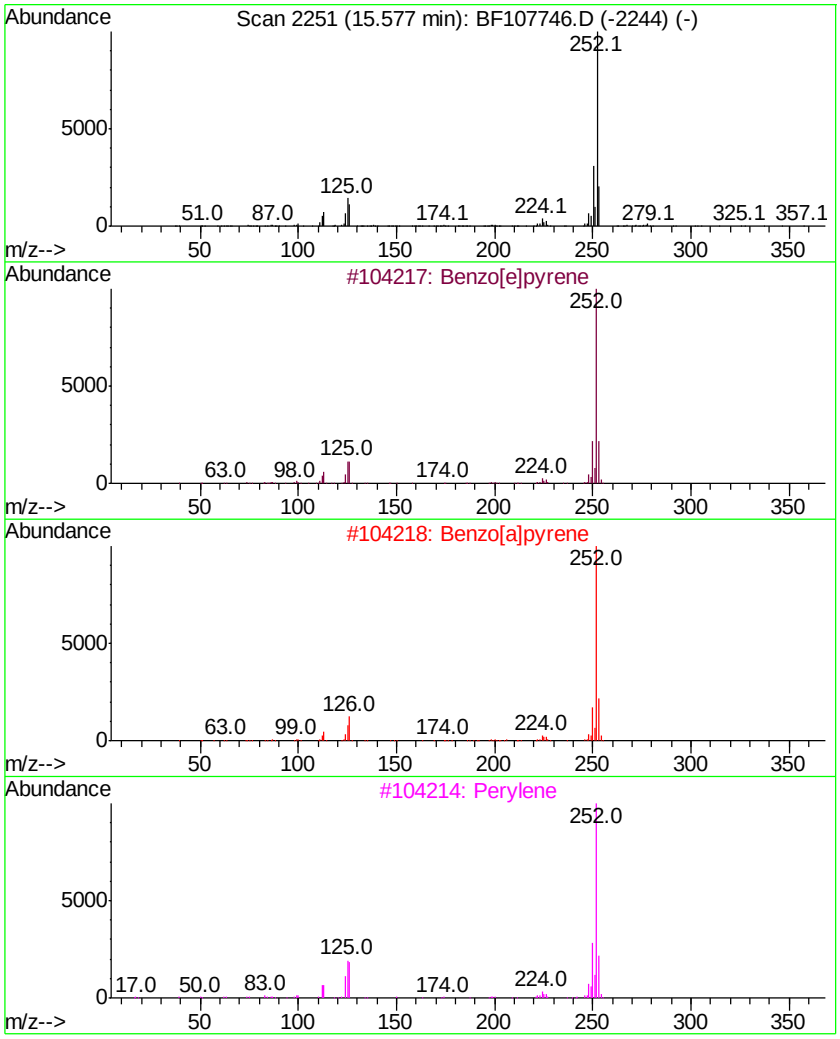
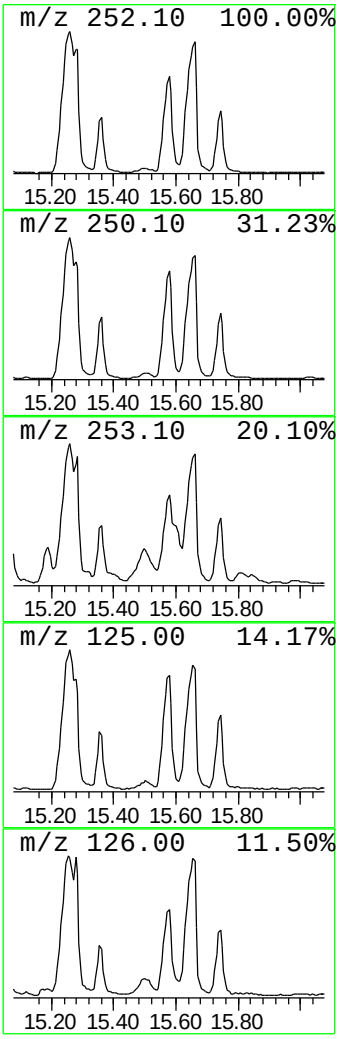
Peak Number 13 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.58	139.60 ng	5089060	Perylene-d12	15.71

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	96
3	Perylene	252	C20H12	000198-55-0	95
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93





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ClientSampleId : SB-1(3-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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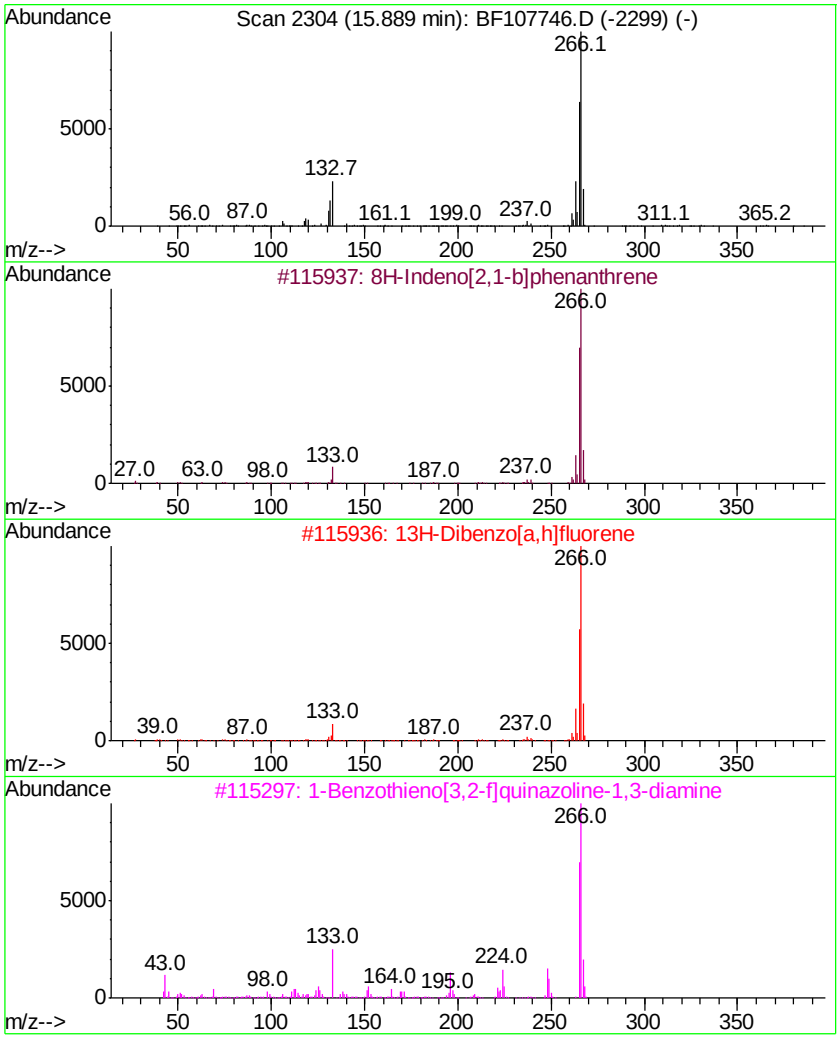
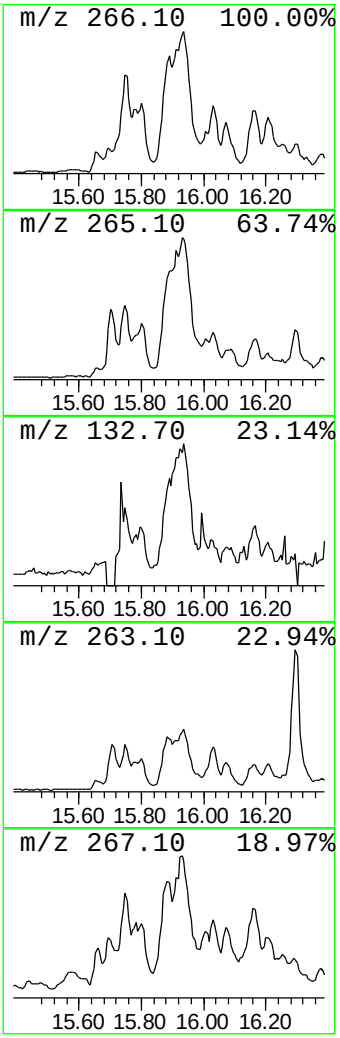
Peak Number 14 8H-Indeno[2,1-b]phenanthrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	14.88 ng	542559	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	76
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	70
3	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	53
4	4,6-Dimethyl-4'-hydroxy-2-benzyl...	266	C17H14O3	002567-73-9	50
5	4,5-Dihydro-3H-dinaphtho[2,1-c:1...	295	C22H17N	1000297-99-2	50





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TIC Library : C:\DATABASE\NIST11.L
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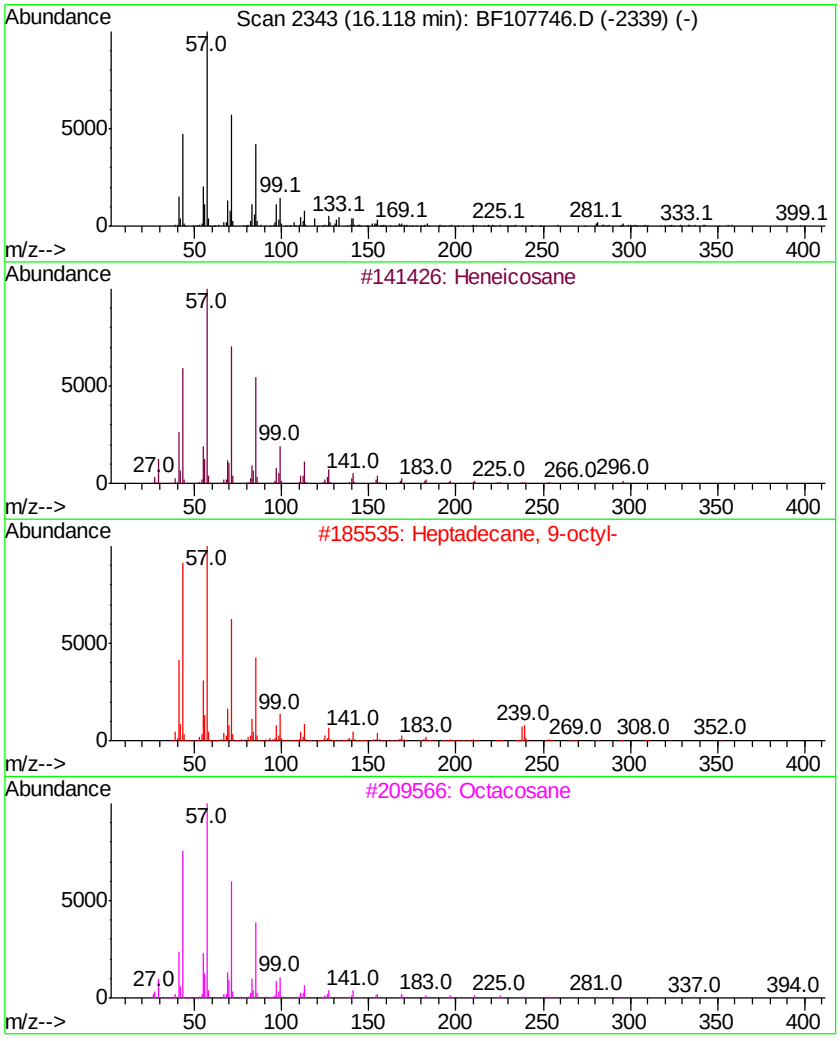
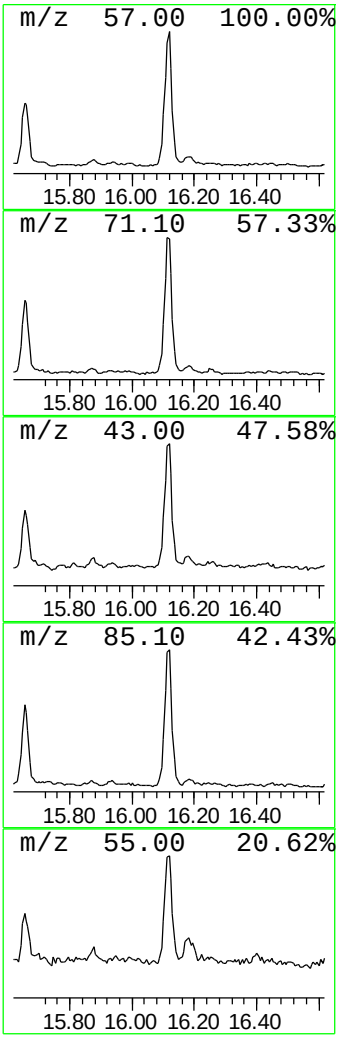
Peak Number 15 Heneicosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.12	15.20 ng	553957	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	99
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
3	Octacosane	394	C28H58	000630-02-4	91
4	2-Bromo dodecane	248	C12H25Br	013187-99-0	90
5	Tetracosane	338	C24H50	000646-31-1	90





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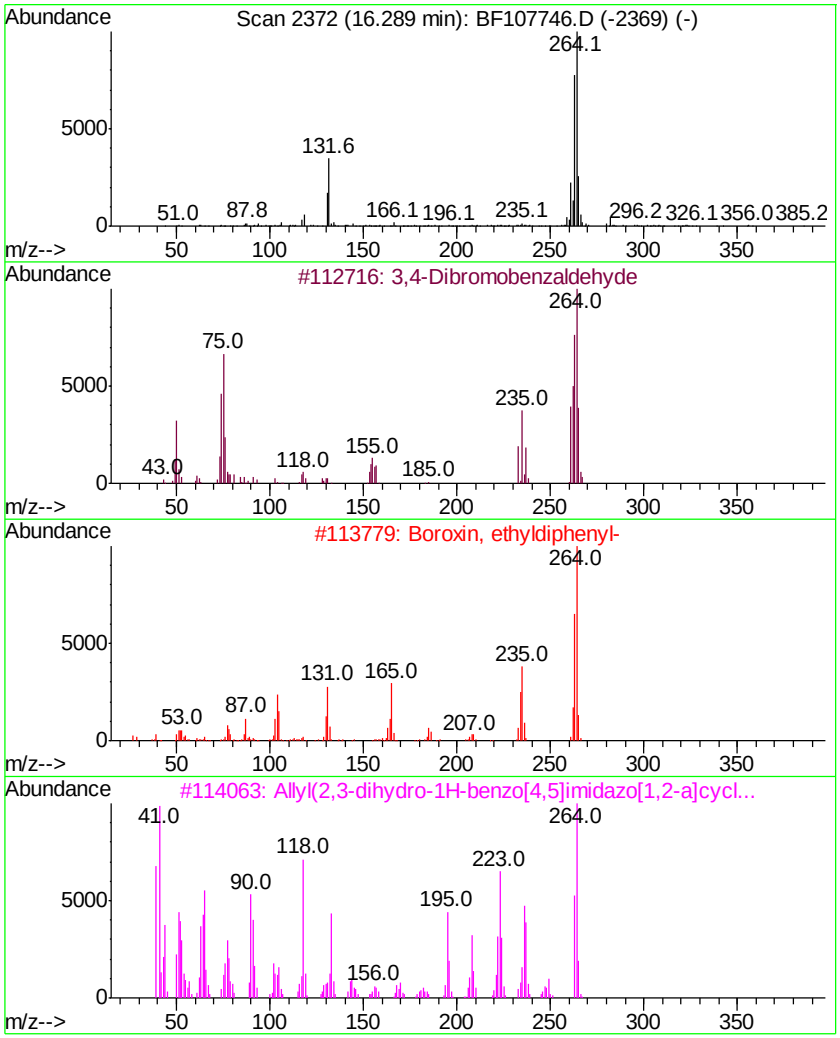
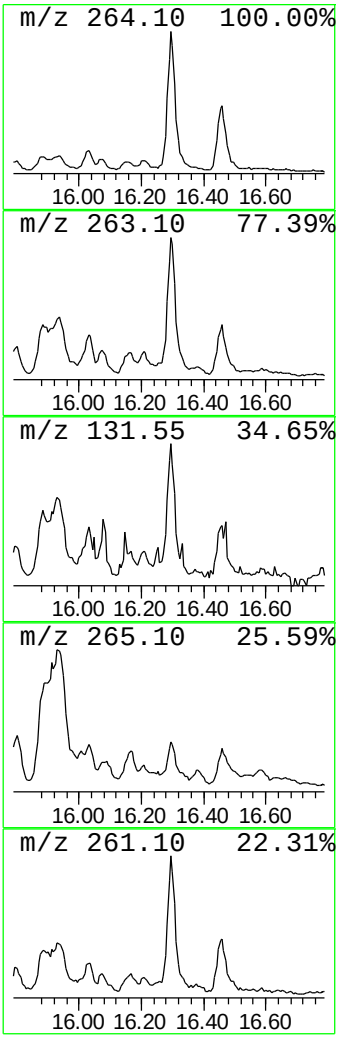
Peak Number 16 3,4-Dibromobenzaldehyde Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.29	29.25 ng	1066150	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	64
2	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	59
3	Allyl(2,3-dihydro-1H-benzo[4,5]i...	264	C16H16N4	1000322-09-2	40
4	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	40
5	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	38





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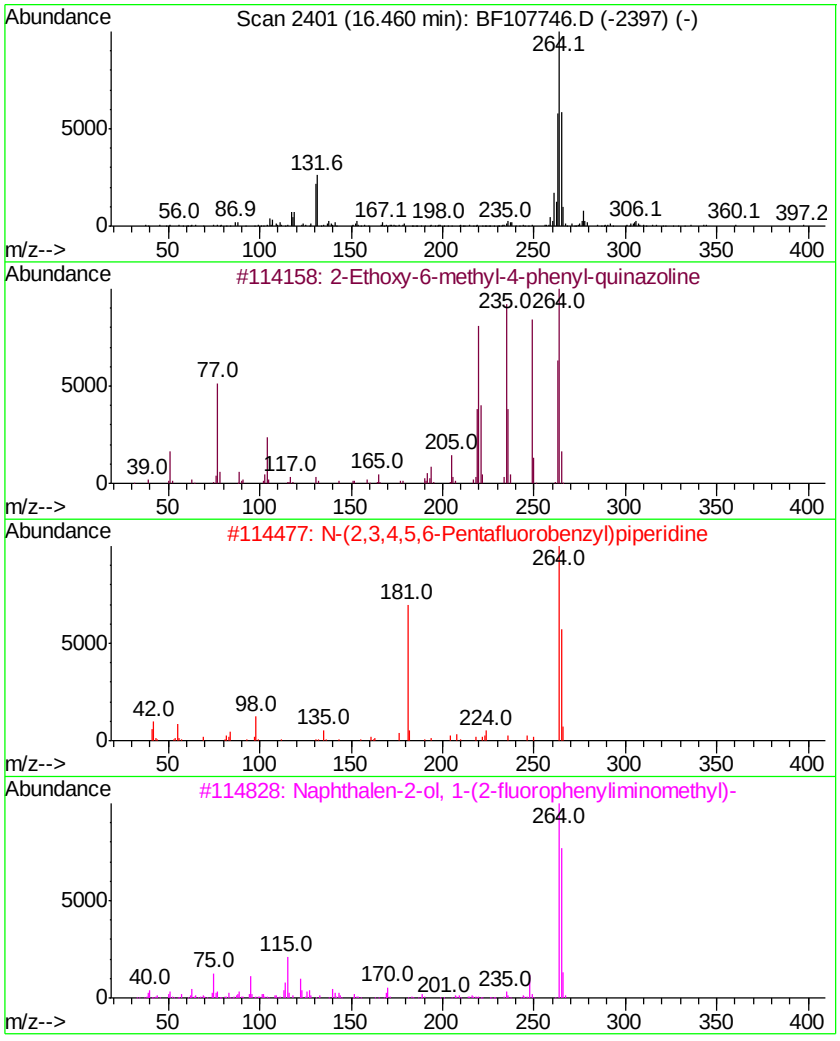
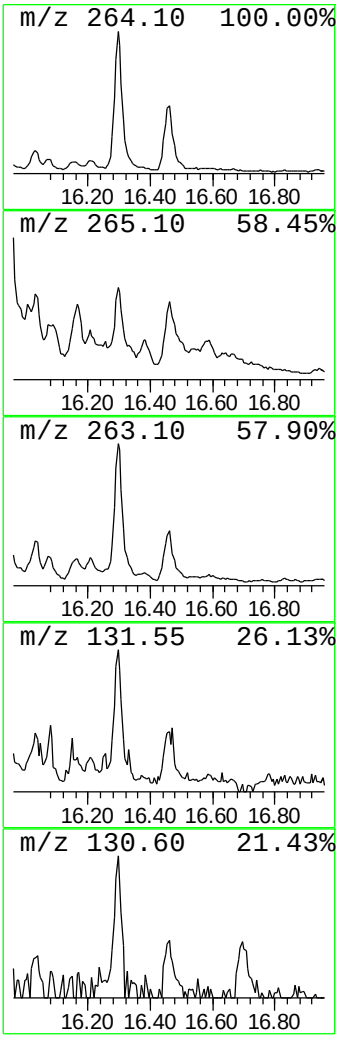
Peak Number 17 unknown16.46 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.46	14.93 ng	544412	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Ethoxy-6-methyl-4-phenyl-quina...	264	C17H16N2O	1000318-42-5	46
2	N-(2,3,4,5,6-Pentafluorobenzyl)p...	265	C12H12F5N	115217-20-4	43
3	Naphthalen-2-ol, 1-(2-fluorophen...	265	C17H12FNO	073621-66-6	37
4	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	36
5	5H-Dibenzo[c,f][1,2]diazepine, 3...	264	C13H10Cl2N2	000955-66-8	32





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

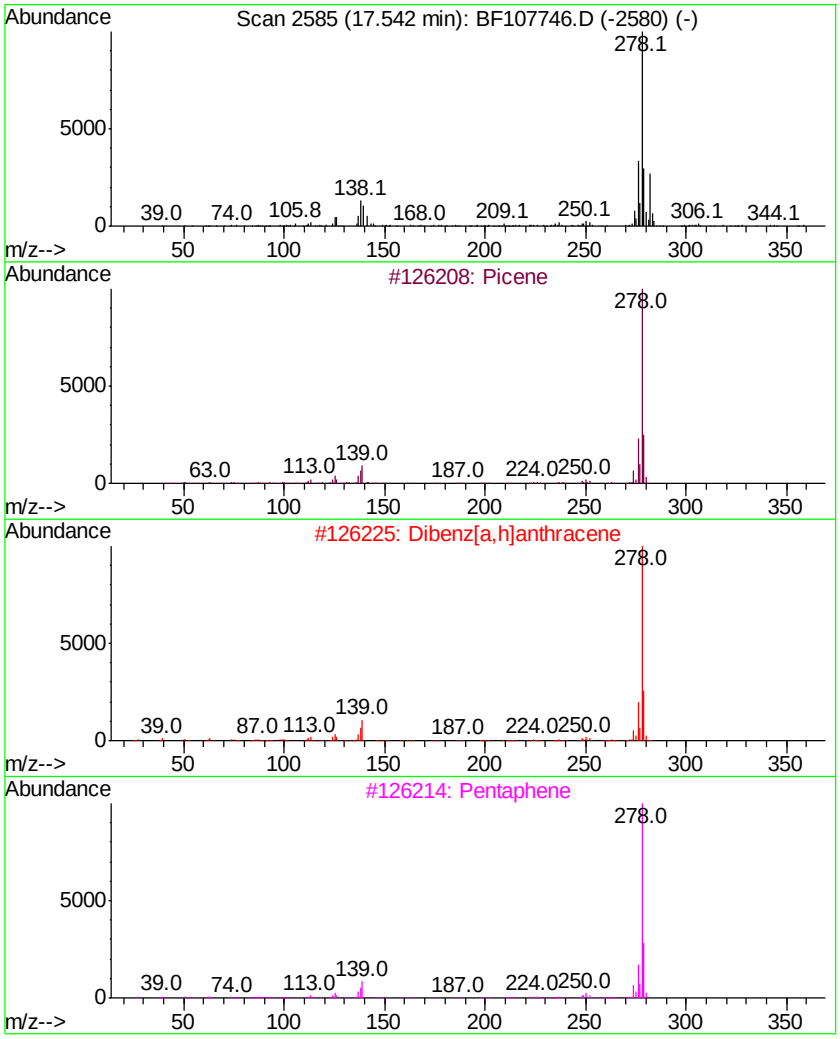
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

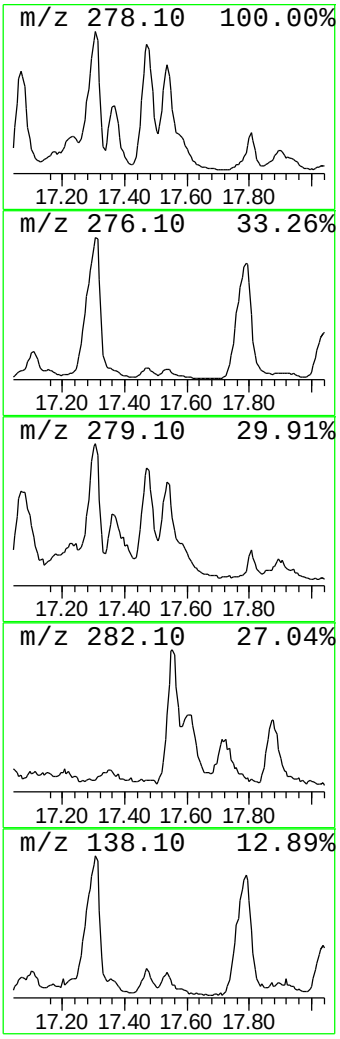
****

Peak Number 19 Picene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	64.76 ng	2361020	Perylene-d12	15.71

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
3	Pentaphene	278	C22H14	000222-93-5	94
4	Benzo[b]chrysene	278	C22H14	000214-17-5	93
5	Benzo[b]triphenylene	278	C22H14	000215-58-7	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072718\
Data File : BF107746.D
Acq On : 27 Jul 2018 15:26
Operator : JU/SJ
Sample : J4143-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-1(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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...	5.20	13.2	ng	569825	1	6.97	865713	20.0
unknown6.74	6.74	91.8	ng	3973810	1	6.97	865713	20.0
Naphthalene, 2,3-...	9.65	7.2	ng	386073	3	10.00	1065810	20.0
Naphthalene, 2,3,...	10.41	7.3	ng	388714	3	10.00	1065810	20.0
1-Isopropenylnaph...	10.61	7.3	ng	388102	3	10.00	1065810	20.0
Diphenylmethane	10.64	7.5	ng	398291	3	10.00	1065810	20.0
[1,1'-Biphenyl]-4...	10.71	10.1	ng	535574	3	10.00	1065810	20.0
4H-Cyclopenta[def...	12.12	7.0	ng	4517200	4	11.50	12917900	20.0
9H-Fluorene, 9-(p...	15.07	28.2	ng	1028890	6	15.71	729105	20.0
Perylene	15.36	52.2	ng	1901440	6	15.71	729105	20.0
Dinaphtho[1,2-b:1...	15.45	14.9	ng	544412	6	15.71	729105	20.0
Benzo[e]pyrene	15.58	139.6	ng	5089060	6	15.71	729105	20.0
8H-Indeno[2,1-b]p...	15.89	14.9	ng	542559	6	15.71	729105	20.0
Heneicosane	16.12	15.2	ng	553957	6	15.71	729105	20.0
3,4-Dibromobenzal...	16.29	29.3	ng	1066150	6	15.71	729105	20.0
unknown16.46	16.46	14.9	ng	544412	6	15.71	729105	20.0
Picene	17.54	64.8	ng	2361020	6	15.71	729105	20.0