LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

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-BF113015.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	4.647	257	259	275	rVB	928363	1792882	27.61%	2.064%
2	5.127	298	301	303	rBV	3888821	5729685	88.23%	6.596%
3	5.310	315	317	324	rVB2	73961	116838	1.80%	0.135%
4	6.202	392	395	401	rBV	4823986	5820998	89.64%	6.701%
5	6.305	401	404	406	rBV	5757052	5997602	92.36%	6.904%
6	6.522	421	423	426	rBV	1045827	1123962	17.31%	1.294%
7	6.682	434	437	440	rBV	4255488	4214898	64.91%	4.852%
8	7.105	471	474	476	rBV	3575909	3985150	61.37%	4.588%
9	7.150	476	478	480	rVV	95682	105466	1.62%	0.121%
10	7.253	484	487	490	rBV	125768	218610	3.37%	0.252%
11	7.333	493	494	497	rVB	71179	101168	1.56%	0.116%
12	7.390	497	499	502	rBV	70493	103624	1.60%	0.119%
13	7.596	515	517	519	rVV2	83303	114620	1.77%	0.132%
14	7.813	534	536	539	rBV	1636862	1683095	25.92%	1.938%
15	8.099	559	561	567	rVB5	50759	127008	1.96%	0.146%
16	8.899	628	631	633	rBV	6162134	6493679	100.00%	7.475%
17	9.299	663	666	668	rBV	1770482	1646633	25.36%	1.896%
18	9.413	675	676	679	rVB	101274	135905	2.09%	0.156%
19	9.516	683	685	686	rBV	165129	158495	2.44%	0.182%
20	9.562	686	689	691	rVV	1642933	1644563	25.33%	1.893%
21	10.019	722	729	730	rBV2	166640	301662	4.65%	0.347%
22	10.236	744	748	749	rBV	81115	128611	1.98%	0.148%
23	10.351	755	758	761	rBV	3614062	3861109	59.46%	4.445%
24	10.488	767	770	775	rVB	240580	357252	5.50%	0.411%
25	10.979	810	813	815	rBV	169478	173097	2.67%	0.199%
26	11.094	820	823	824	rBV	1603560	1685052	25.95%	1.940%
27	11.116	824	825	827	rVV	909967	933274	14.37%	1.074%
28	11.185	827	831	834	rVB	123319	223954	3.45%	0.258%
29	11.402	846	850	853	rBV2	677549	772376	11.89%	0.889%
30	11.494	856	858	860	rVB2	101538	127221	1.96%	0.146%
31	11.699	873	876	877	rBV2	114373	159023	2.45%	0.183%
32	11.734	877	879	882	rVV	132364	160667	2.47%	0.185%
33	11.791	882	884	886	rVV	352798	453804	6.99%	0.522%
34	11.825	886	887	889	rVV	178466	267367	4.12%	0.308%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

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-BF113015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.859	889	890	895	rVB	89479	107582	1.66%	0.124%
36	12.077	907	909	910	rVV	105271	125856	1.94%	0.145%
37	12.111	910	912	917	rVB	221403	295178	4.55%	0.340%
38	12.419	935	939	941	rBV2	75208	141917	2.19%	0.163%
39	12.477	941	944	946	rVV	651741	980021	15.09%	1.128%
40	12.522	946	948	954	rVV2	133971	251980	3.88%	0.290%
41	12.625	954	957	960	rVV	2073327	2469330	38.03%	2.843%
42	12.751	966	968	971	rVB	110924	143513	2.21%	0.165%
43	12.819	971	974	976	rBV	94755	128240	1.97%	0.148%
44	12.865	976	978	980	rVV2	147809	203468	3.13%	0.234%
45	12.934	980	984	987	rVV	2231058	2890662	44.52%	3.328%
46	13.002	987	990	992	rVB3	130666	254197	3.91%	0.293%
47	13.117	998	1000	1002	rBV	102172	120051	1.85%	0.138%
48	13.185	1002	1006	1009	rVV	4065735	5849216	90.08%	6.733%
49	13.265	1009	1013	1015	rVB2	84298	163355	2.52%	0.188%
50	13.380	1020	1023	1024	rBV3	101422	184205	2.84%	0.212%
51	13.414	1024	1026	1029	rVB	160858	227487	3.50%	0.262%
52	13.562	1036	1039	1041	rBV2	163777	250635	3.86%	0.289%
53	13.688	1048	1050	1052	rVB	112869	126323	1.95%	0.145%
54	13.734	1052	1054	1058	rVB	89886	116018	1.79%	0.134%
55	14.054	1080	1082	1087	rVB4	87368	153466	2.36%	0.177%
56	14.168	1090	1092	1096	rVB	154886	229699	3.54%	0.264%
57	14.317	1098	1105	1107	rBV2	172210	301888	4.65%	0.348%
58	14.397	1107	1112	1113	rVV2	164976	401991	6.19%	0.463%
59	14.431	1113	1115	1118	rVB3	65213	104629	1.61%	0.120%
60	14.488	1118	1120	1123	rVB	119045	180016	2.77%	0.207%
61	14.614	1129	1131	1135	rVV	200854	362341	5.58%	0.417%
62	14.705	1135	1139	1141	rVV2	1279011	2930827	45.13%	3.374%
63	14.751	1141	1143	1145	rVV	1034015	1357483	20.90%	1.563%
64	14.820	1148	1149	1151	rVV	127662	185655	2.86%	0.214%
65	14.854	1151	1152	1155	rVB	128271	159815	2.46%	0.184%
66	14.934	1156	1159	1164	rVV	105090	214527	3.30%	0.247%
67	15.025	1164	1167	1170	rVV2	105690	157022	2.42%	0.181%
68	15.083	1170	1172	1175	rVV	70992	125540	1.93%	0.145%
69	15.140	1175	1177	1181	rVB2	70537	124067	1.91%	0.143%
70	15.311	1189	1192	1195	rBV	101000	211206	3.25%	0.243%
71	15.368	1195	1197	1201	rVV2	69497	182311	2.81%	0.210%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

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-BF113015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.460	1202	1205	1207	rVV2	78982	166311	2.56%	0.191%
73	15.494	1207	1208	1212	rVV2	80256	186387	2.87%	0.215%
74	15.563	1212	1214	1218	rVV2	57786	124143	1.91%	0.143%
75	15.631	1218	1220	1225	rVB2	108706	179241	2.76%	0.206%
76	15.803	1231	1235	1238	rBV3	56126	140770	2.17%	0.162%
77	16.054	1252	1257	1259	rBV2	43640	116708	1.80%	0.134%
78	16.191	1267	1269	1272	rVB	87534	123668	1.90%	0.142%
79	16.271	1272	1276	1282	rBV	1049903	2605145	40.12%	2.999%
80	16.397	1282	1287	1290	rVB2	141857	228389	3.52%	0.263%
81	16.568	1296	1302	1304	rBV4	90449	252905	3.89%	0.291%
82	16.626	1304	1307	1310	rVV	728294	1173846	18.08%	1.351%
83	16.706	1310	1314	1317	rVV	730082	1183888	18.23%	1.363%
84	16.774	1317	1320	1325	rVV2	740424	1413910	21.77%	1.628%
85	16.854	1325	1327	1331	rVV	45829	113432	1.75%	0.131%
86	17.014	1335	1341	1347	rVB5	69261	255065	3.93%	0.294%
87	17.128	1347	1351	1353	rBV2	50957	120637	1.86%	0.139%
88	17.346	1363	1370	1376	rBV4	101335	295719	4.55%	0.340%
89	17.894	1411	1418	1424	rVB7	70952	279776	4.31%	0.322%
90	18.009	1424	1428	1435	rBV4	135202	445695	6.86%	0.513%
91	18.157	1437	1441	1445	rVV2	585046	1102327	16.98%	1.269%
92	18.306	1451	1454	1456	rBV	92247	166441	2.56%	0.192%
93	18.351	1456	1458	1462	rBV2	82819	163959	2.52%	0.189%
94	18.523	1469	1473	1481	rVB	571703	1151378	17.73%	1.325%
95	20.397	1631	1637	1645	rVB	137718	458131	7.06%	0.527%
96	20.557	1646	1651	1654	rBV	81962	240543	3.70%	0.277%
97	20.809	1669	1673	1681	rBV4	36108	128675	1.98%	0.148%
98	21.083	1694	1697	1705	rVB3	29955	129054	1.99%	0.149%
99	21.323	1711	1718	1720	rBV	56953	207419	3.19%	0.239%
100	21.392	1720	1724	1730	rVV	105186	382949	5.90%	0.441%

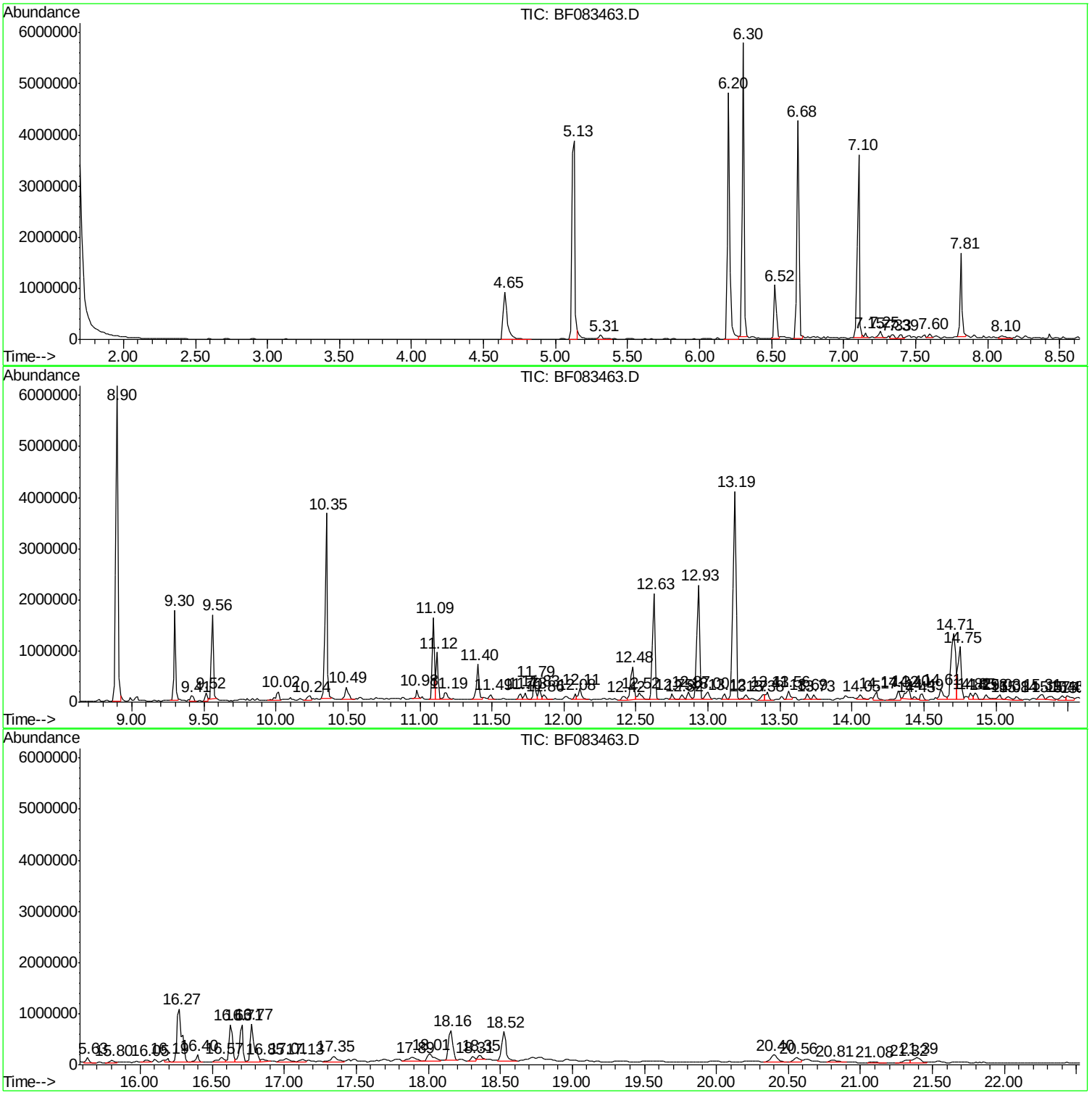
Sum of corrected areas: 86867578

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

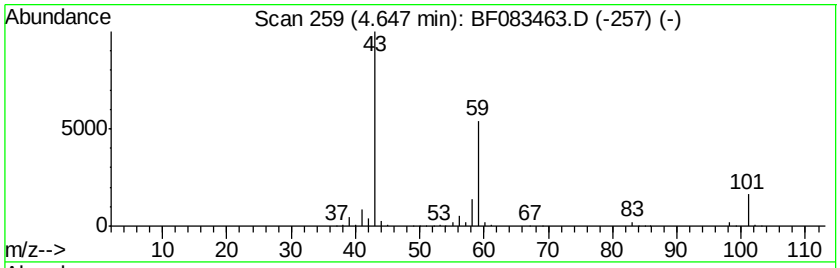
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

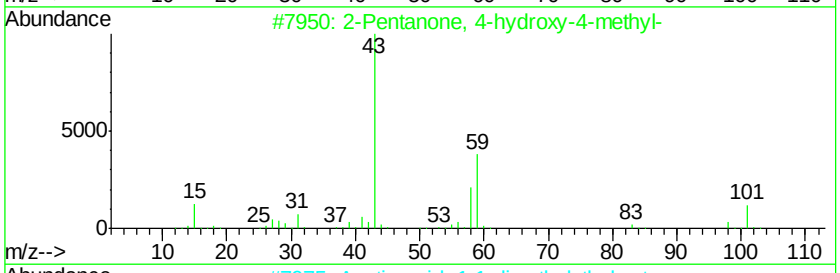
****

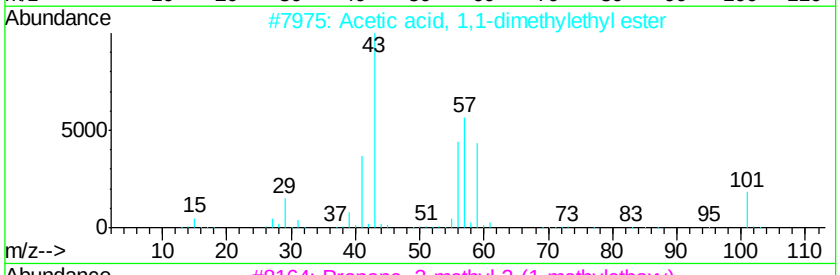
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

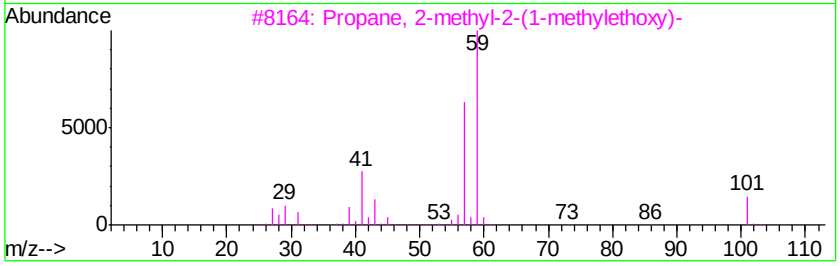
R.T.	EstConc	Area	Relative to ISTD	R.T.
4.65	31.90 ng	1792880	1,4-Dichlorobenzene-d4	6.52

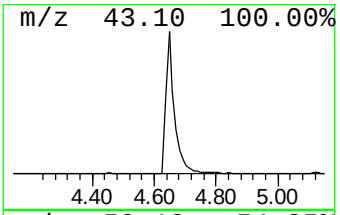
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
5	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	32

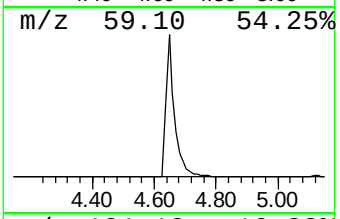


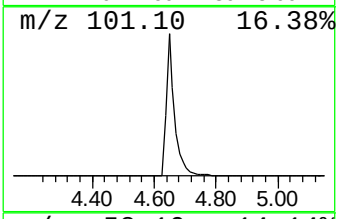


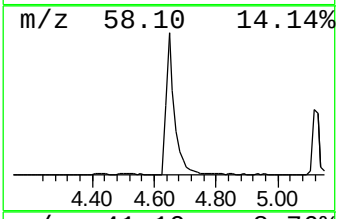


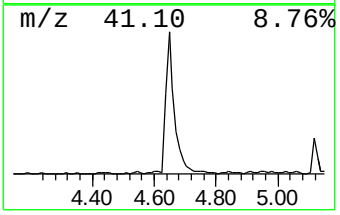












Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

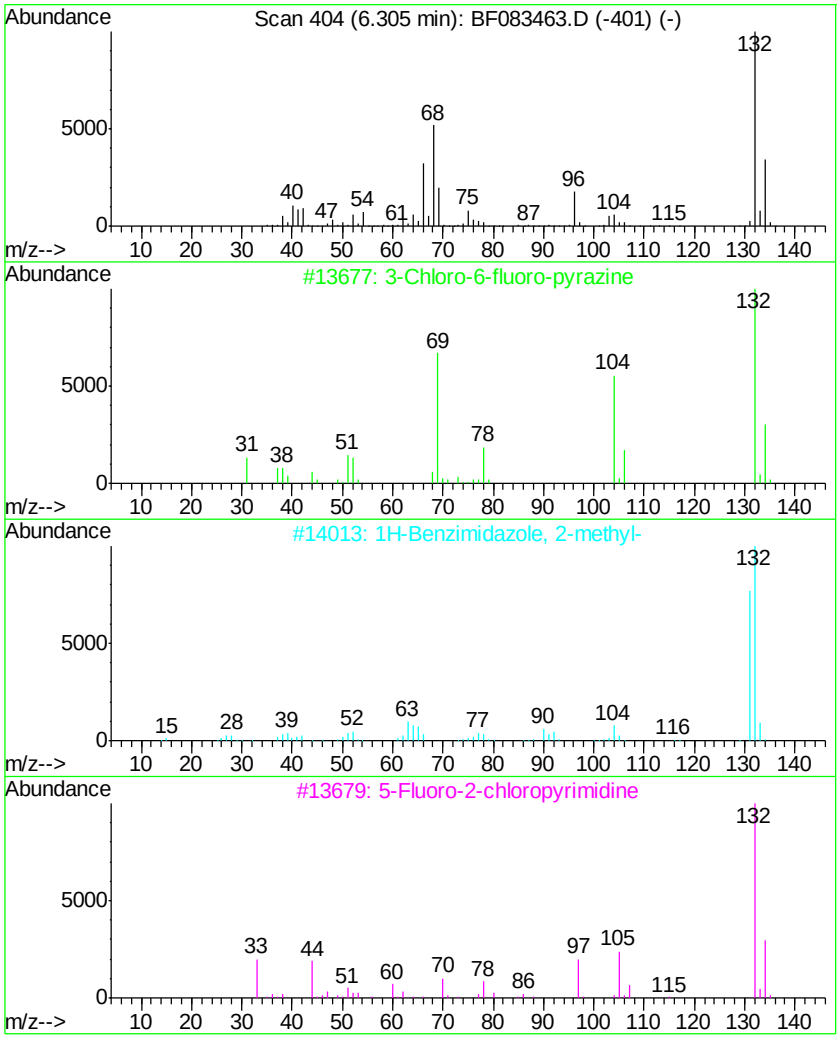
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

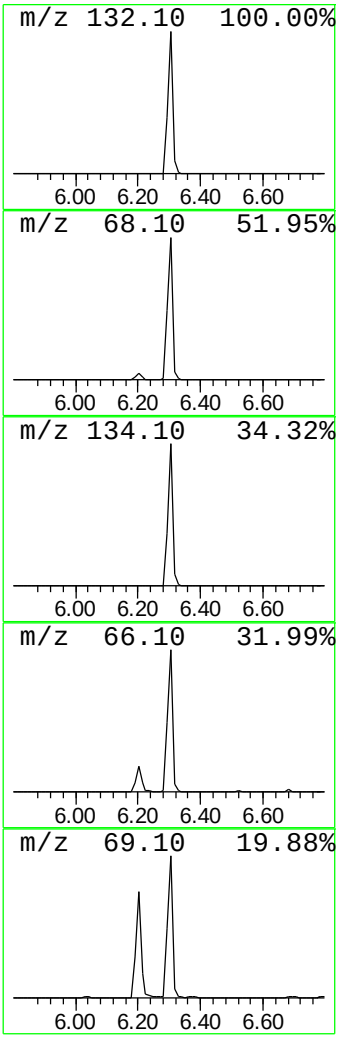
****

Peak Number 2 unknown6.30 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.30	106.72 ng	5997600	1,4-Dichlorobenzene-d4	6.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
4	2-Cyclohexen-1-one	96	C6H8O	000930-68-7	10
5	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	10





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

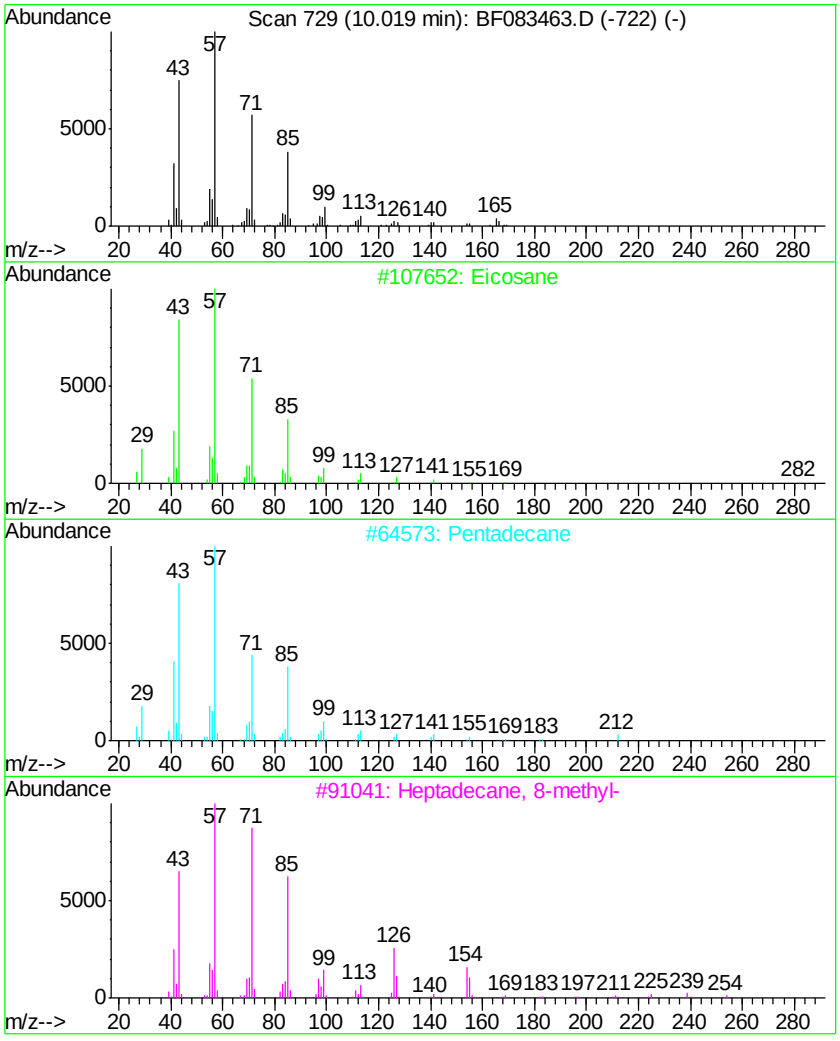
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

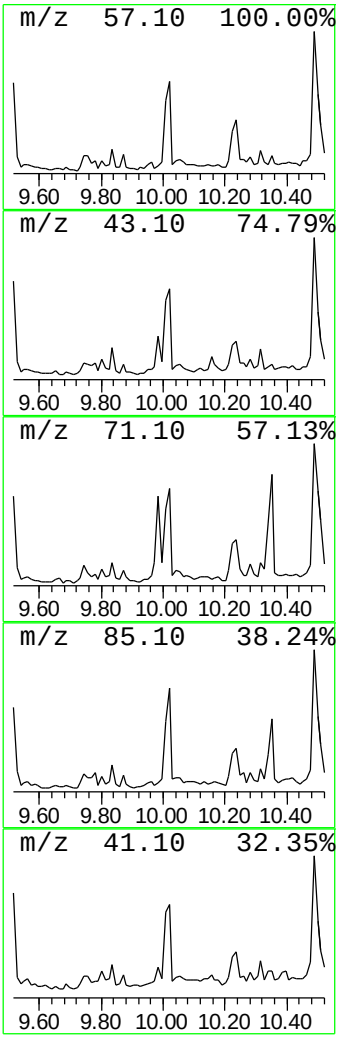
****

Peak Number 4 Eicosane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.02	3.67 ng	301662	Acenaphthene-d10	9.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	91
2	Pentadecane	212	C15H32	000629-62-9	86
3	Heptadecane, 8-methyl-	254	C18H38	013287-23-5	86
4	Tridecane	184	C13H28	000629-50-5	86
5	Tetracosane	338	C24H50	000646-31-1	78





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

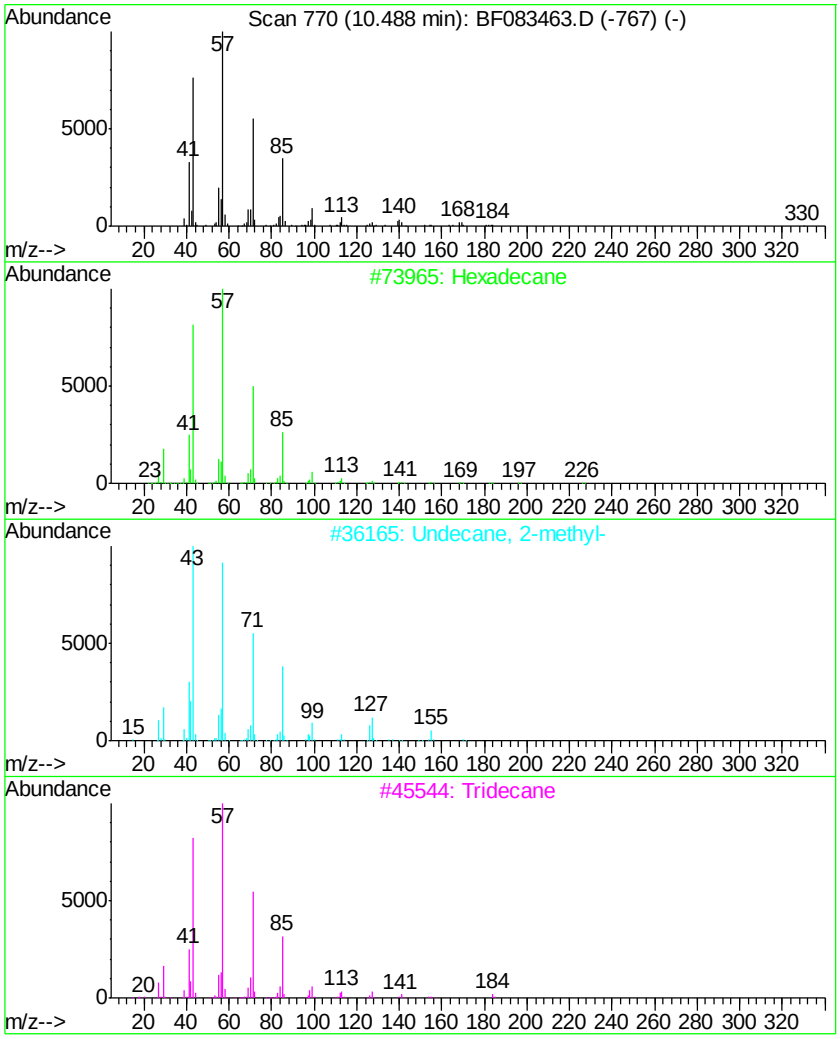
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

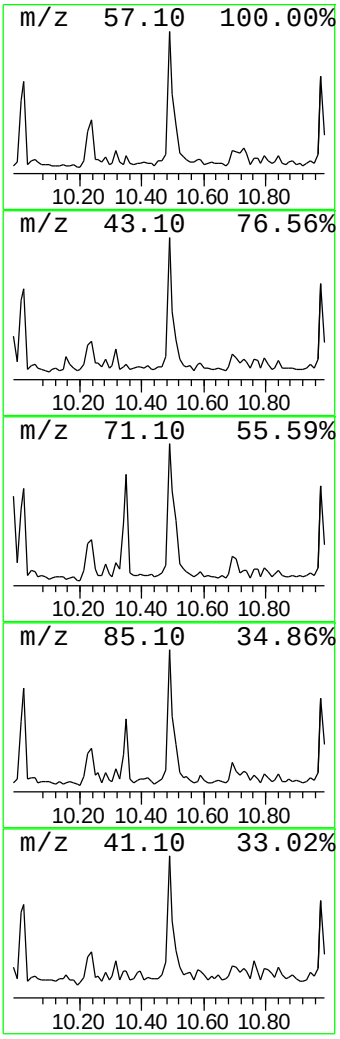
****

Peak Number 5 Hexadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.49	4.24 ng	357252	Phenanthrene-d10	11.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Undecane, 2-methyl-	170	C12H26	007045-71-8	91
3	Tridecane	184	C13H28	000629-50-5	90
4	Tetradecane	198	C14H30	000629-59-4	90
5	Nonane, 5-butyl-	184	C13H28	017312-63-9	70





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Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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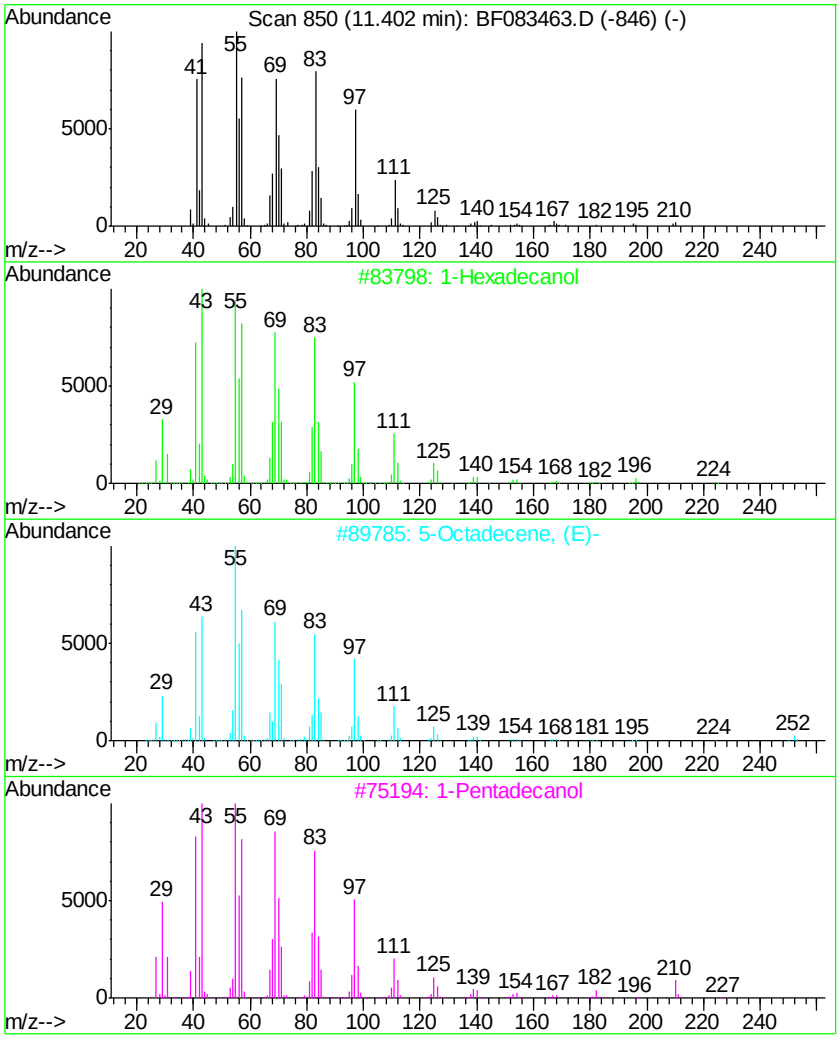
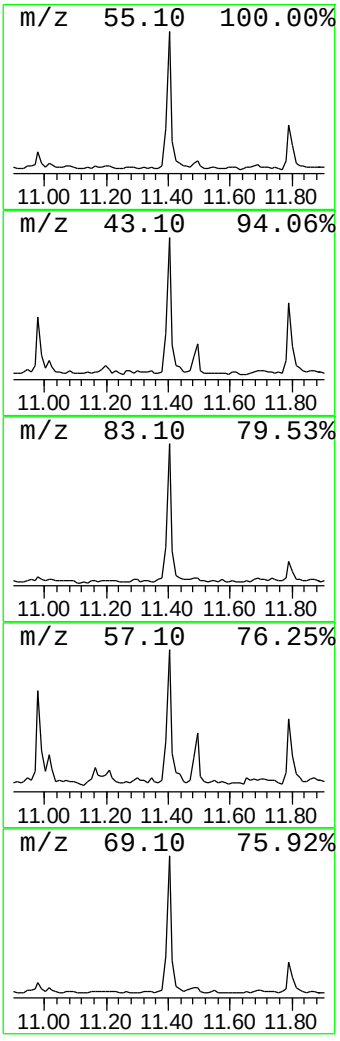
Peak Number 6 1-Hexadecanol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.40	9.17 ng	772376	Phenanthrene-d10	11.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Hexadecanol	242	C16H34O	036653-82-4	94
2	5-Octadecene, (E)-	252	C18H36	007206-21-5	91
3	1-Pentadecanol	228	C15H32O	000629-76-5	91
4	Cyclotetradecane	196	C14H28	000295-17-0	91
5	9-Octadecene, (E)-	252	C18H36	007206-25-9	91





Library Search Compound Report

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ClientSampleId : DUP3-112415

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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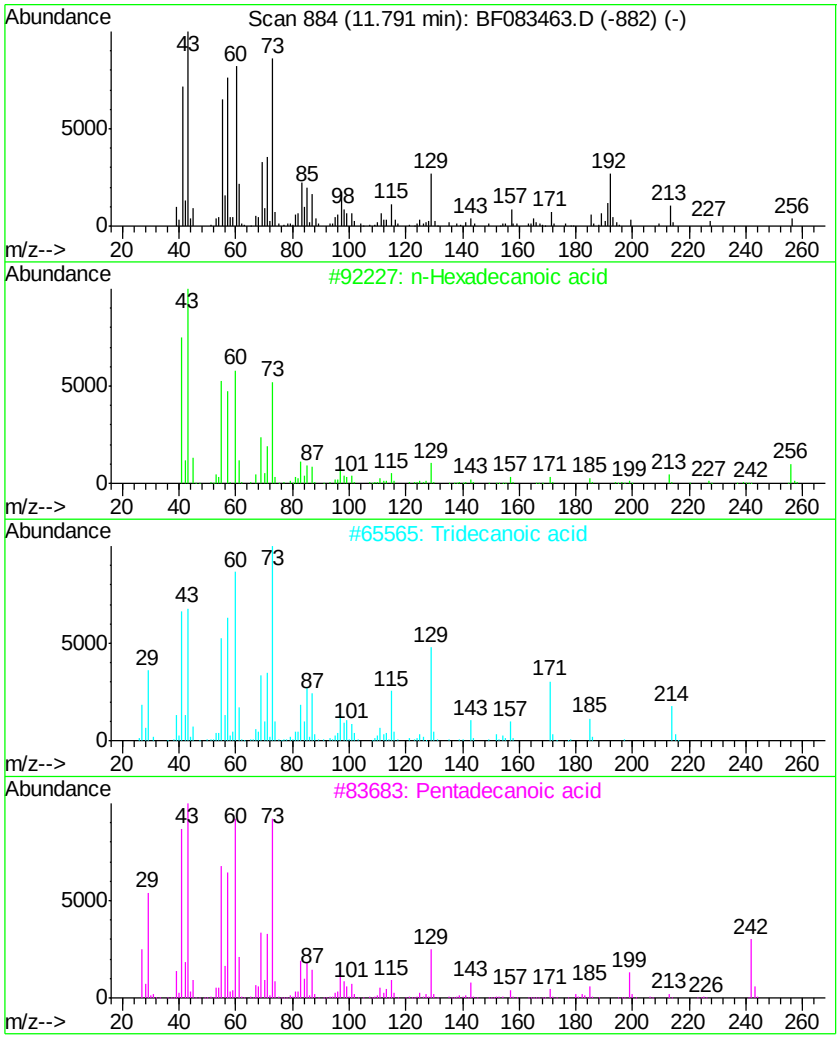
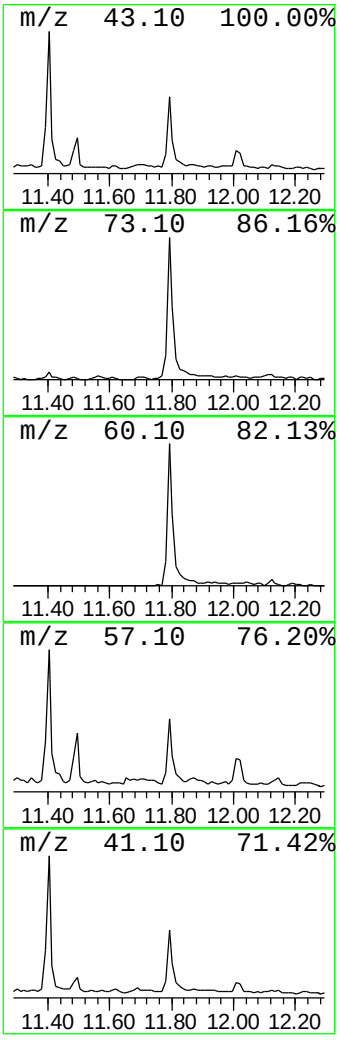
Peak Number 7 n-Hexadecanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	5.39 ng	453804	Phenanthrene-d10	11.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
2	Tridecanoic acid	214	C13H26O2	000638-53-9	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	74
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5	Undecanoic acid	186	C11H22O2	000112-37-8	64





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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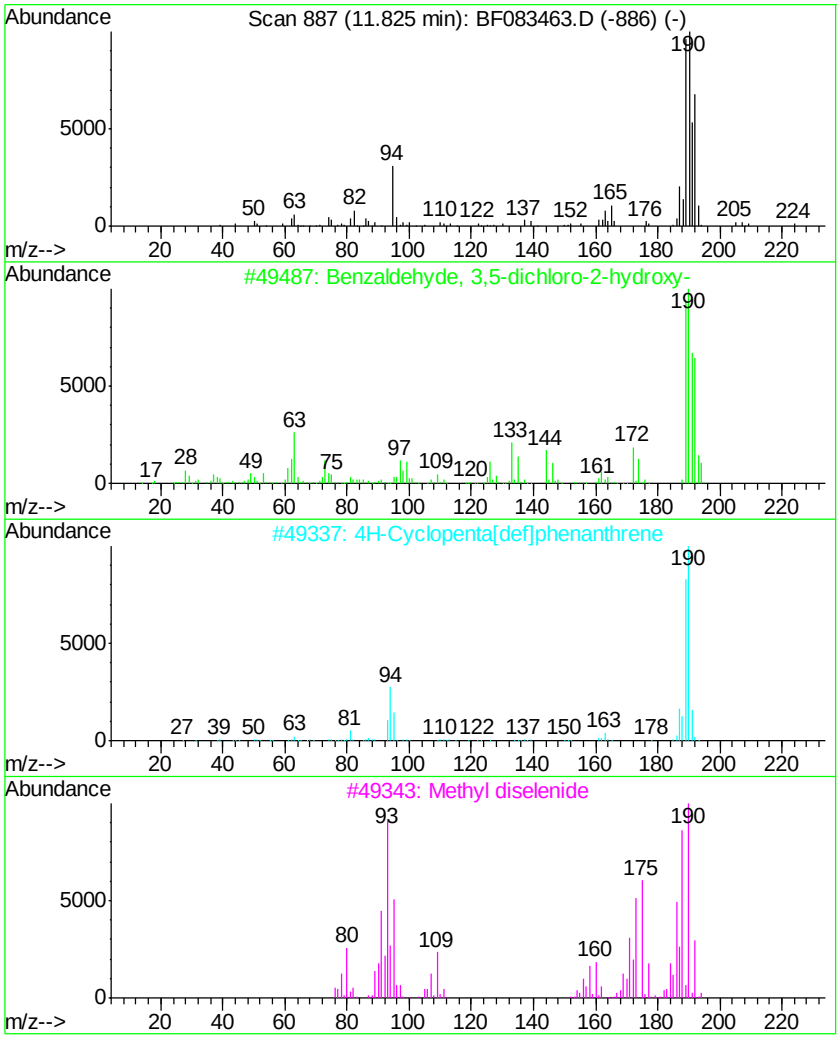
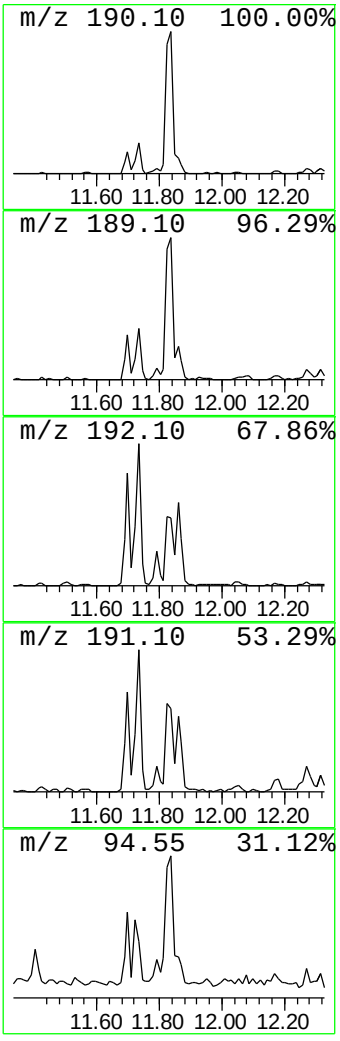
Peak Number 8 Benzaldehyde, 3,5-dichloro-... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	3.17 ng	267367	Phenanthrene-d10	11.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	62
3	Methyl diselenide	190	C2H6Se2	007101-31-7	45
4	3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	27
5	Benzene, 1,1'-(1,2-propadienylid...	192	C15H12	014251-57-1	25





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Misc :
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ClientSampleId : DUP3-112415

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TIC Library : C:\DATABASE\NIST02.L
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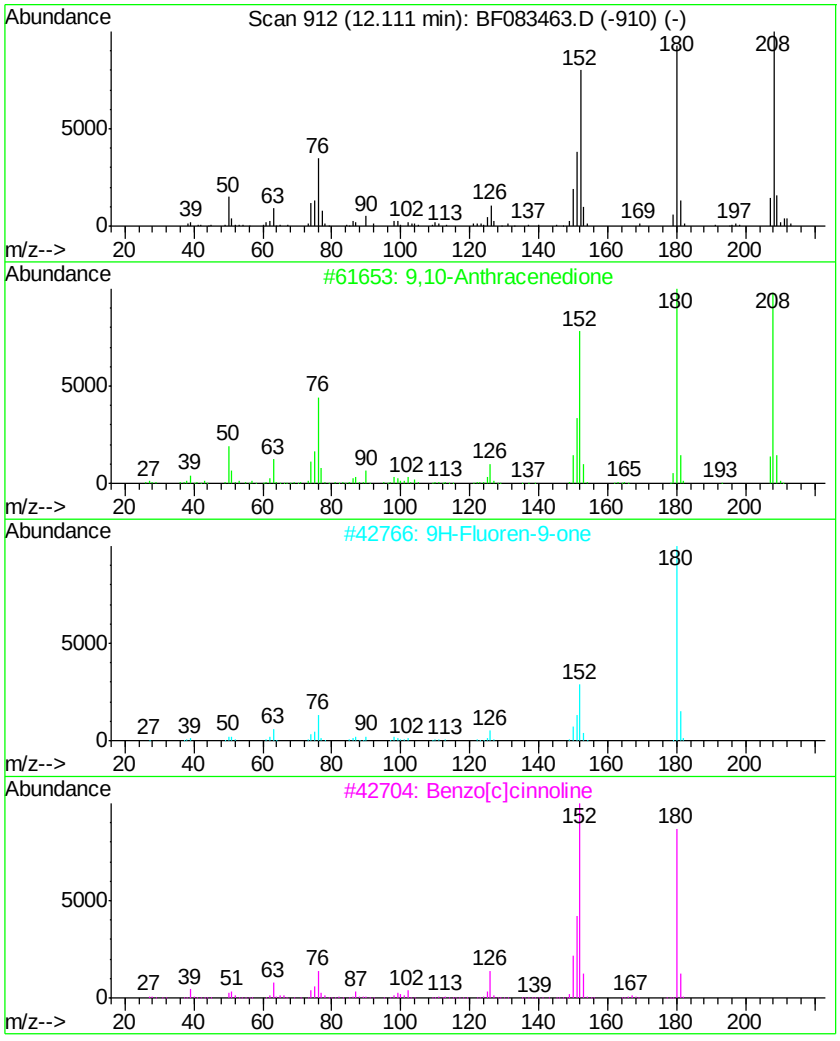
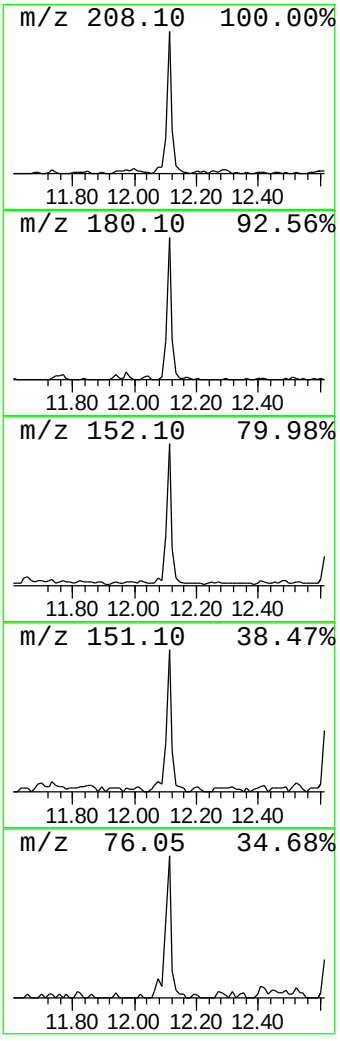
Peak Number 9 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	3.50 ng	295178	Phenanthrene-d10	11.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	83
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
4	1,4-Anthracenedione	208	C14H8O2	000635-12-1	58
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	53





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Sample : G4585-04
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ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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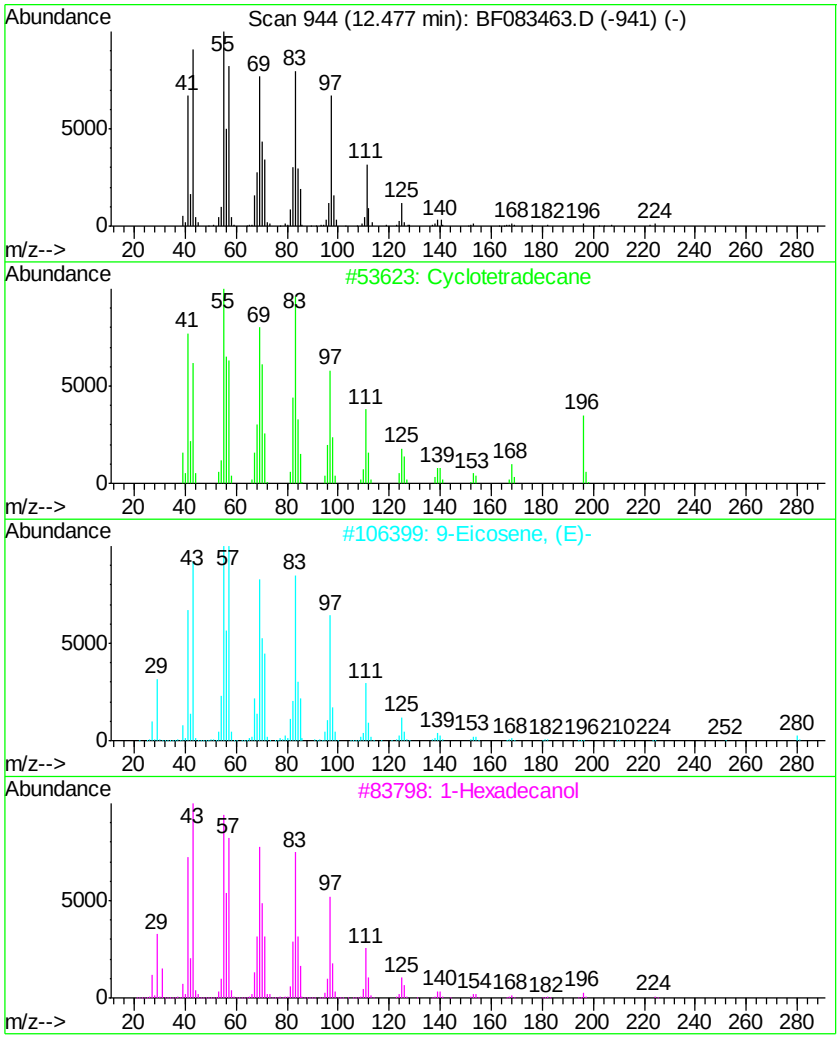
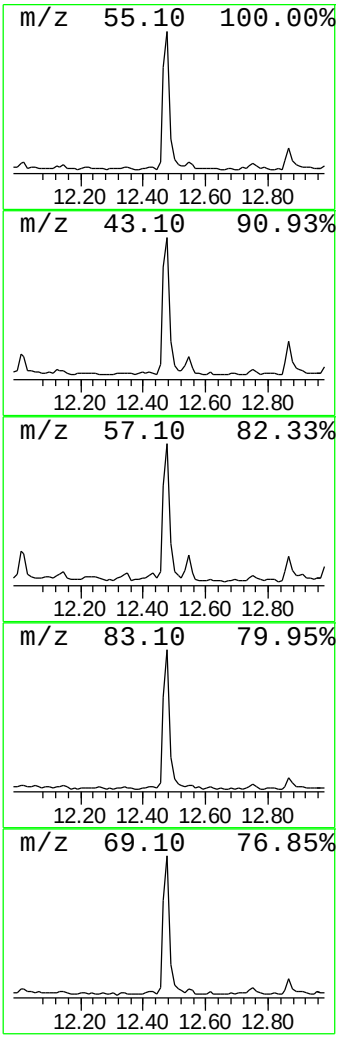
Peak Number 10 Cyclotetradecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.48	11.63 ng	980021	Phenanthrene-d10	11.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetradecane	196	C14H28	000295-17-0	95
2	9-Eicosene, (E)-	280	C20H40	074685-29-3	94
3	1-Hexadecanol	242	C16H34O	036653-82-4	94
4	4-Heptafluorobutyryloxyhexadecane	438	C20H33F7O2	1000282-97-2	91
5	Cyclohexadecane	224	C16H32	000295-65-8	91





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ClientSampleId : DUP3-112415

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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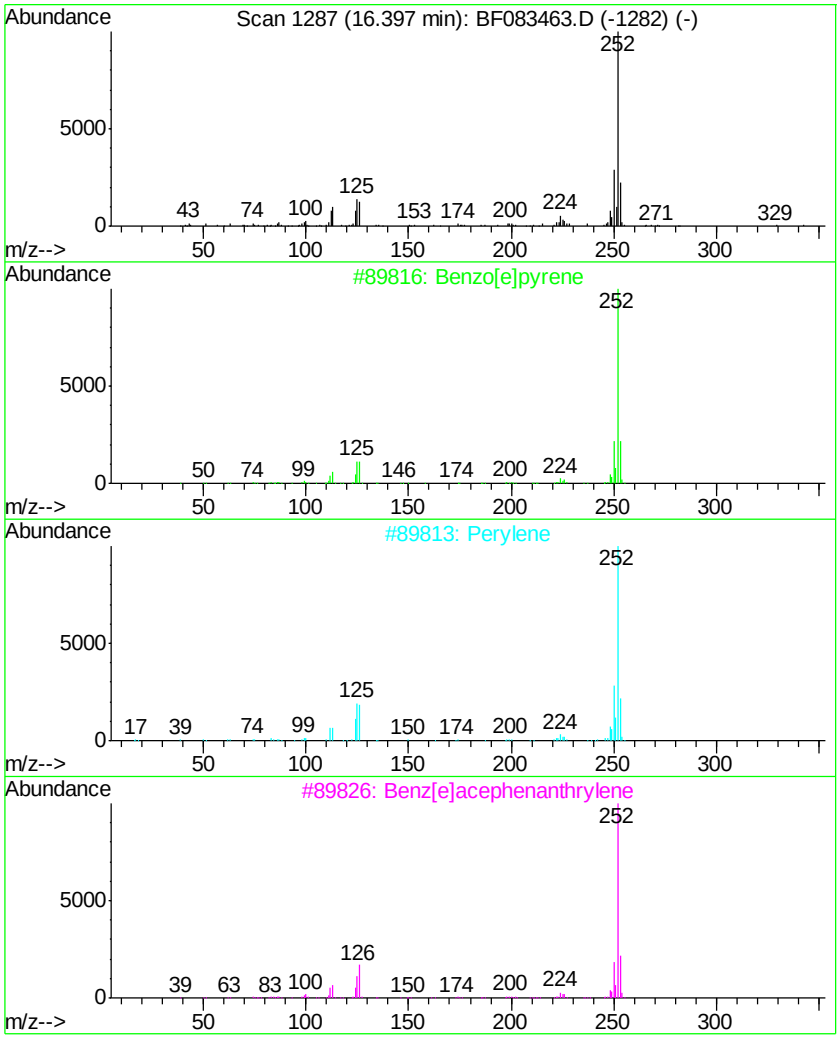
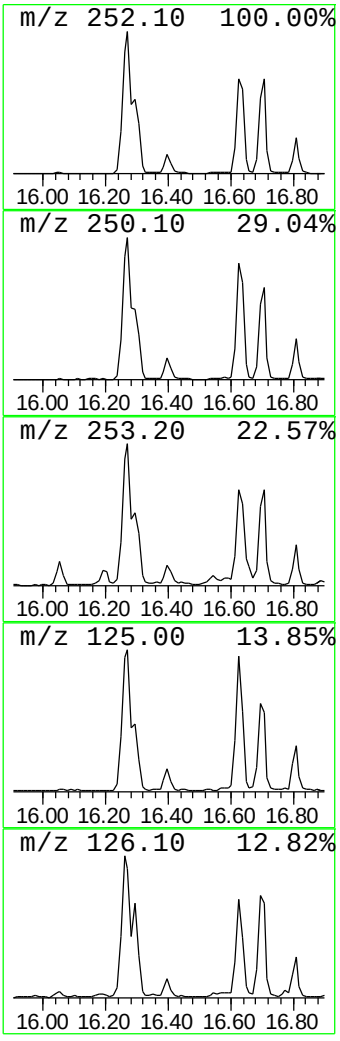
Peak Number 11 Benzo[e]pyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.40	3.23 ng	228389	Perylene-d12	16.77

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	96
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





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Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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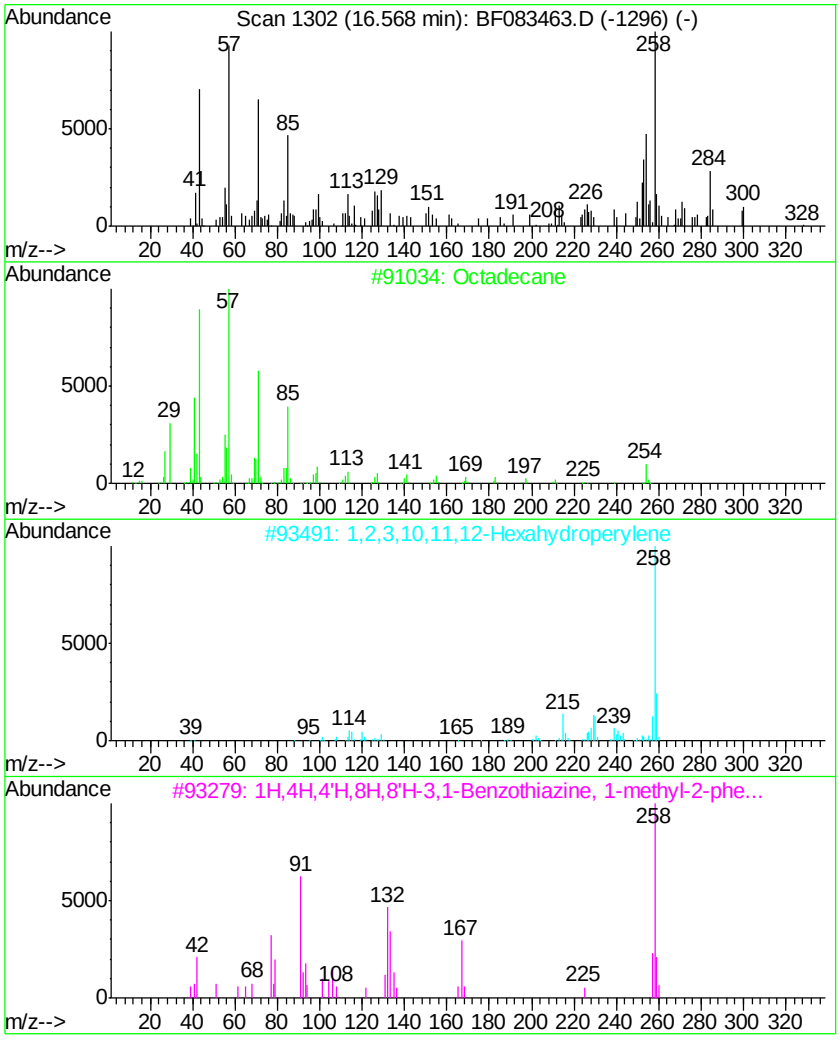
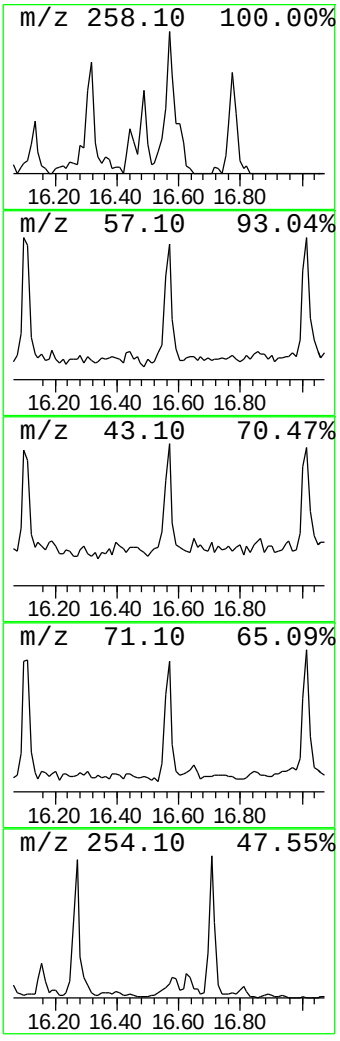
Peak Number 12 Octadecane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.57	3.58 ng	252905	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	30
2	1,2,3,10,11,12-Hexahydroperylene	258	C20H18	007350-92-7	27
3	1H,4H,4'H,8H,8'H-3,1-Benzothiazi...	258	C15H18N2S	1000139-29-7	18
4	Eicosane, 2-methyl-	296	C21H44	001560-84-5	18
5	Benzenamine, 4-(9H-carbazol-9-yl)-	258	C18H14N2	052708-37-9	15





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Sample : G4585-04
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Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
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TIC Library : C:\DATABASE\NIST02.L
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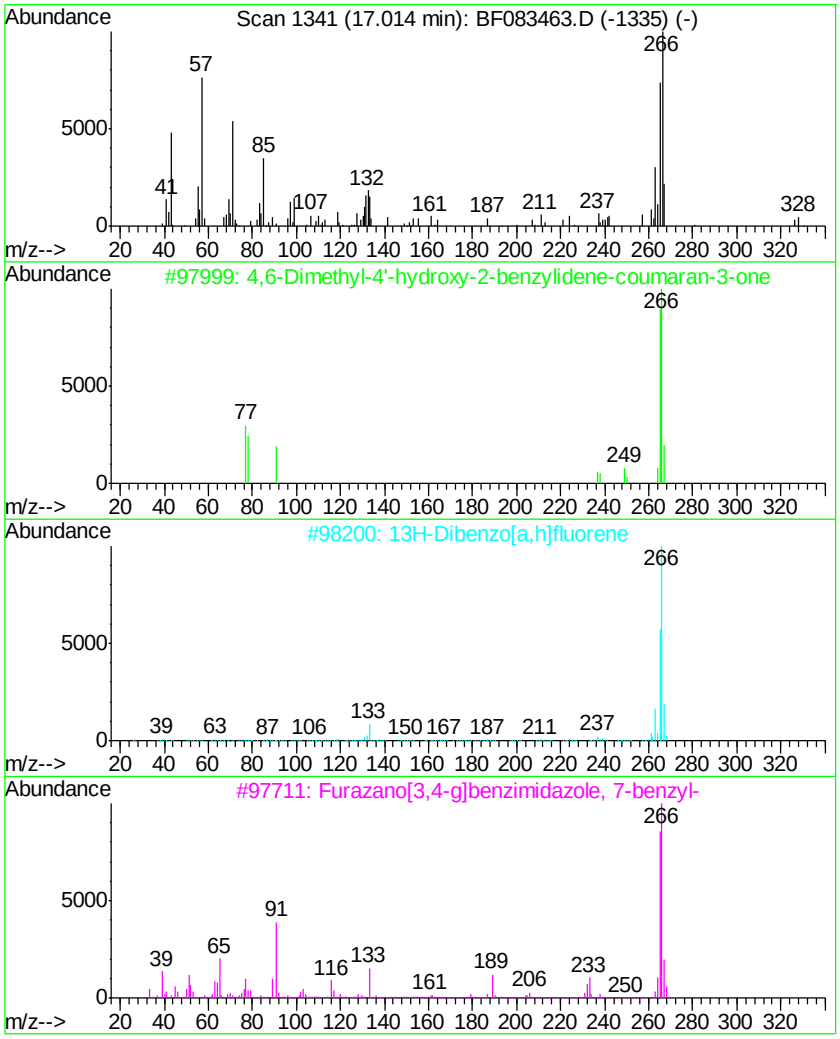
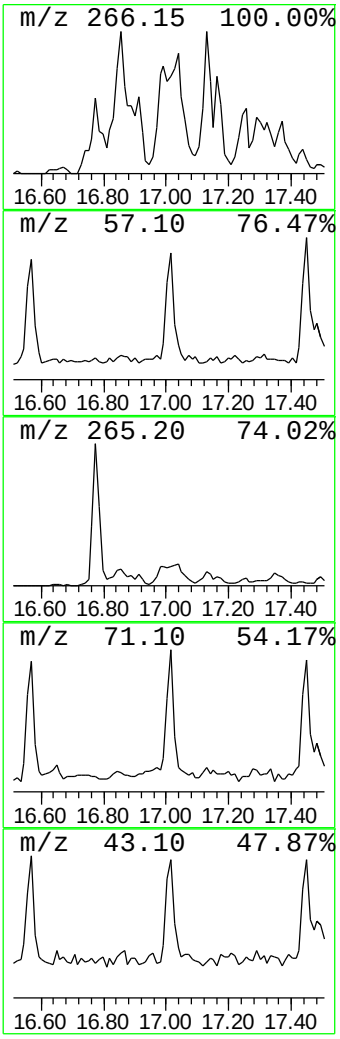
Peak Number 14 4,6-Dimethyl-4'-hydroxy-2-b... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.01	3.61 ng	255065	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,6-Dimethyl-4'-hydroxy-2-benzyl...	266	C17H14O3	002567-73-9	53
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	52
3	Furazano[3,4-g]benzimidazole, 7-...	266	C14H10N4S	129485-61-6	52
4	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	49
5	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	49





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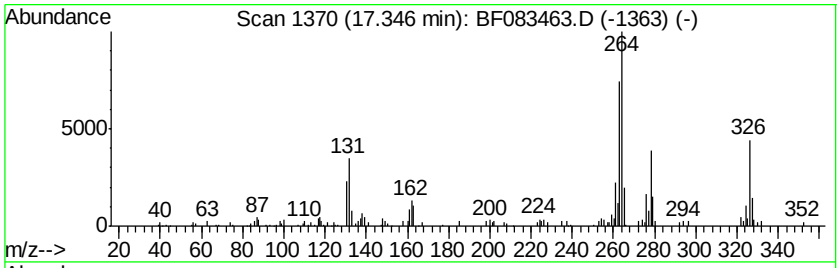
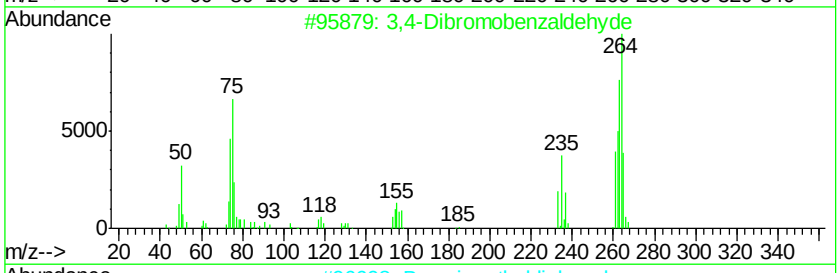
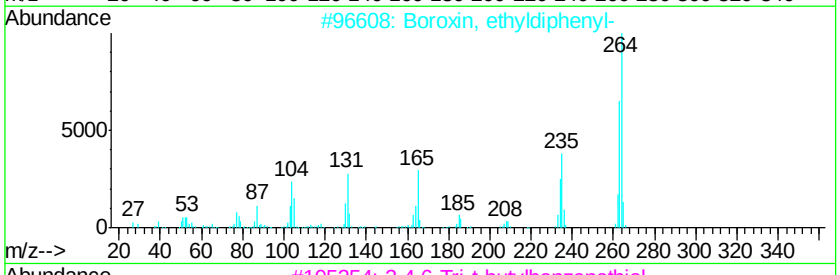
Peak Number 15 unknown17.35 Concentration Rank 12

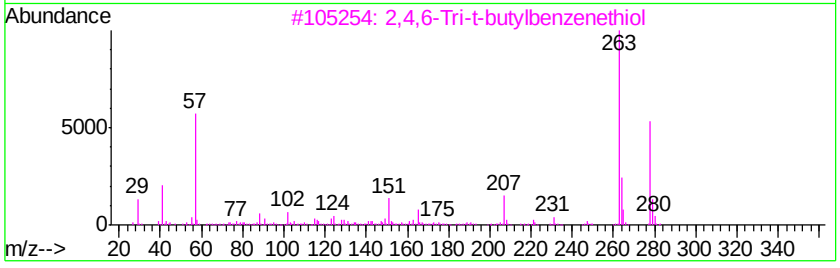
R.T.	EstConc	Area	Relative to ISTD	R.T.
17.35	4.18 ng	295719	Perylene-d12	16.77

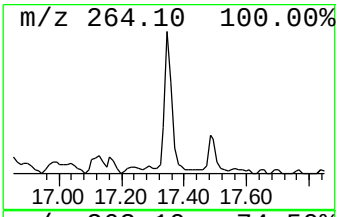
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	46
2	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	43
3	2,4,6-Tri-t-butylbenzenethiol	278	C18H30S	000961-39-7	16
4	2,5-Bis(4-hydroxyphenyl)pyrimidine	264	C16H12N2O2	159488-83-2	14
5	2-Oxo-6-phenyl-4-(2-hydroxypheny...	264	C16H12N2O2	017432-82-5	12

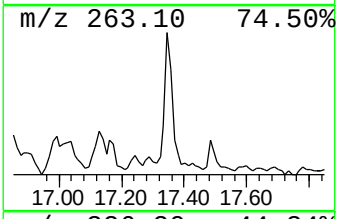


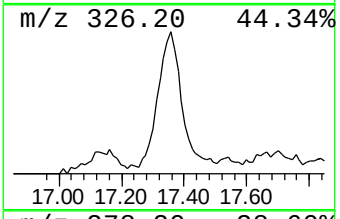


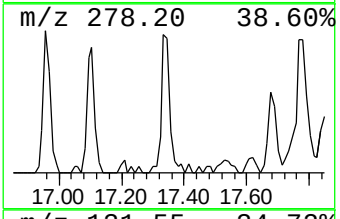


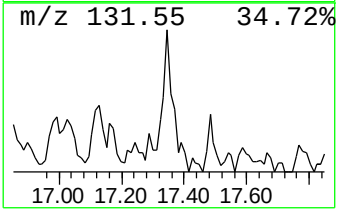












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TIC Integration Parameters: LSCINT.P

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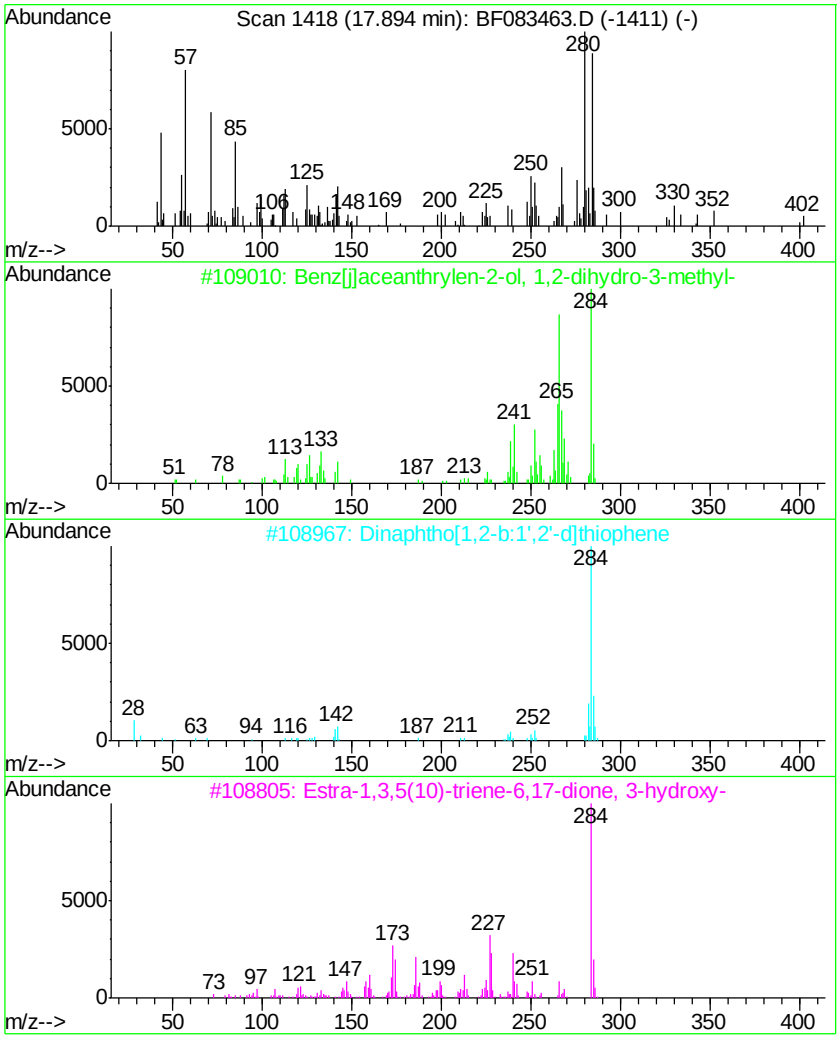
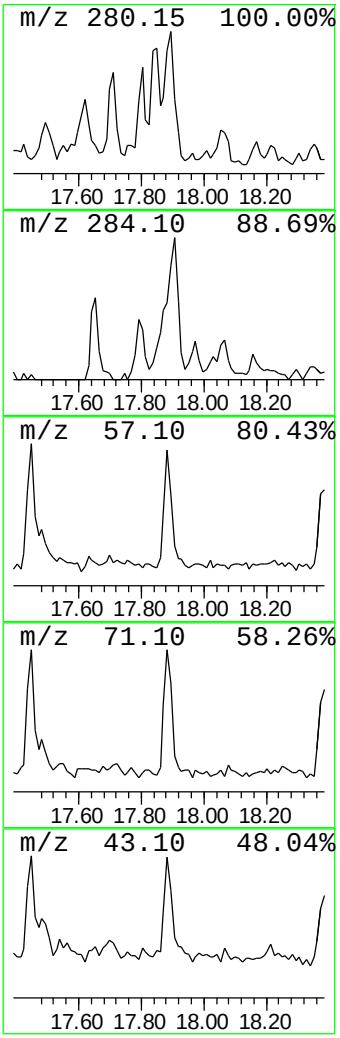
Peak Number 16 unknown17.89 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.89	3.96 ng	279776	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[j]aceanthrylen-2-ol, 1,2-di...	284	C21H16O	003308-64-3	42
2	Dinaphtho[1,2-b:1',2'-d]thiophene	284	C20H12S	000207-94-3	38
3	Estra-1,3,5(10)-triene-6,17-dion...	284	C18H20O3	001476-34-2	35
4	Propenone, 1-(benzo[b]-1,4-dioxa...	284	C17H13FO3	133188-35-9	35
5	Dinaphtho(1,2-b:2',1'-d)thiophene	284	C20H12S	000239-72-5	25





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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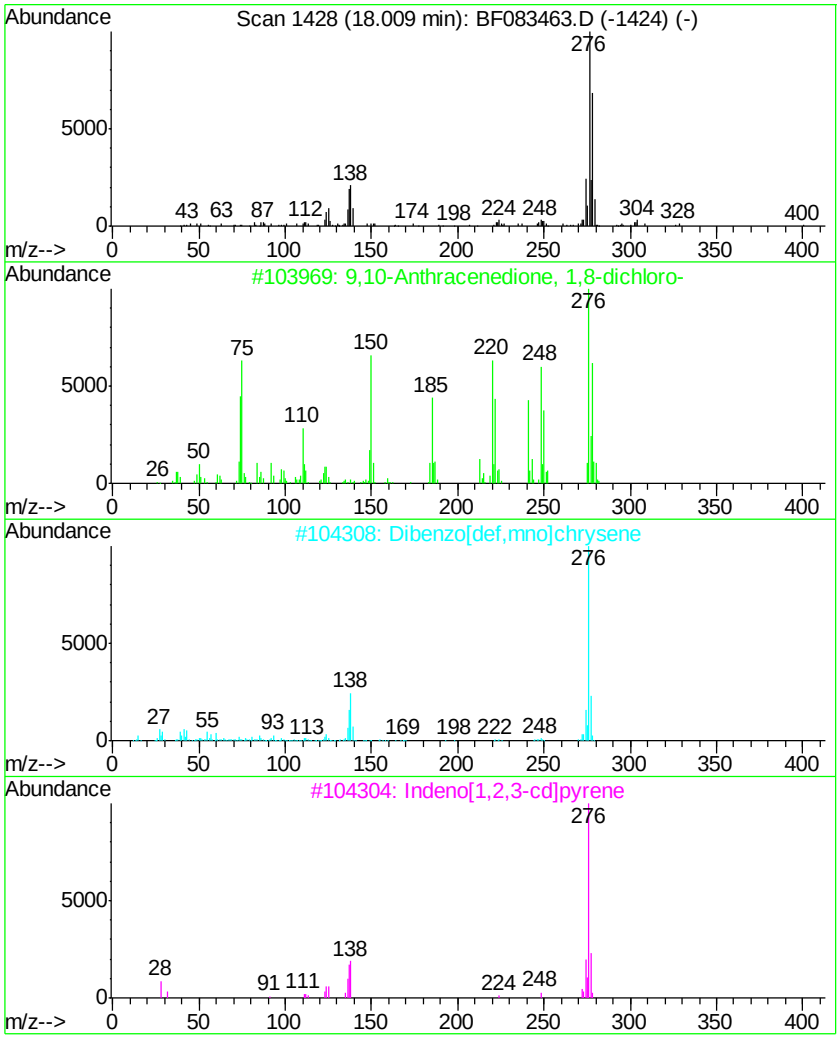
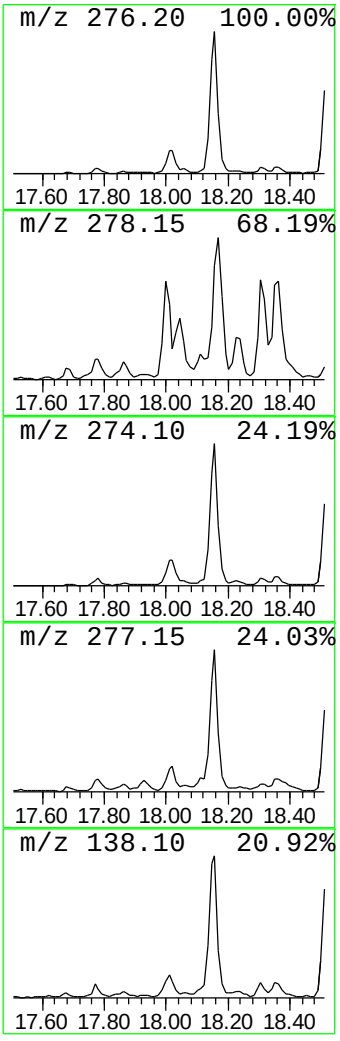
Peak Number 17 9,10-Anthracenedione, 1,8-d... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.01	6.30 ng	445695	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione, 1,8-dichloro-	276	C14H6Cl2O2	000082-43-9	93
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	91
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	86
5	9,10-Anthracenedione, 1,5-dichloro-	276	C14H6Cl2O2	000082-46-2	70





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Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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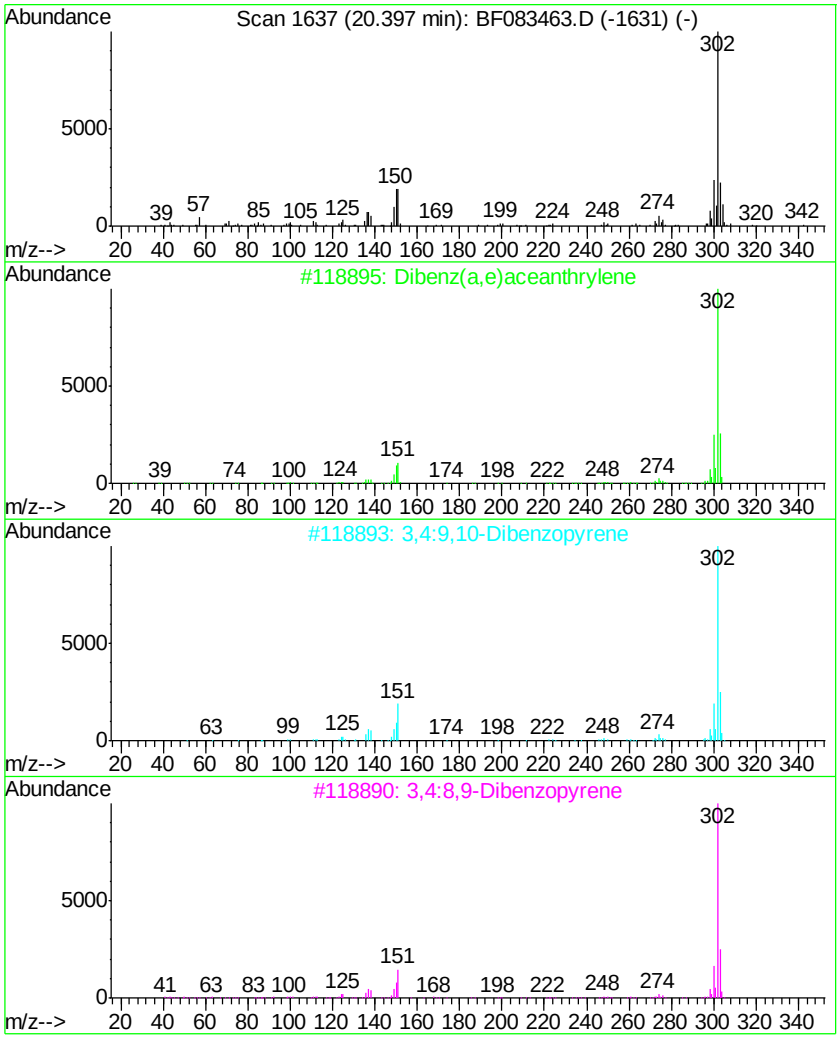
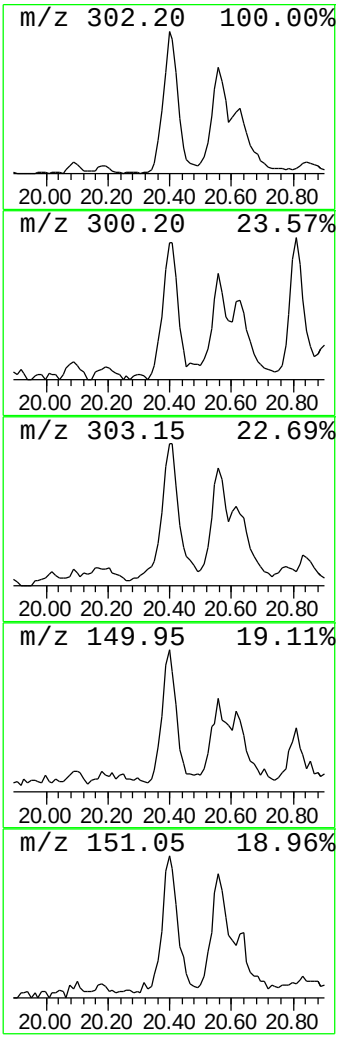
Peak Number 18 Dibenz(a,e)aceanthrylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.40	6.48 ng	458131	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	96
2	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	96
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	92
4	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	90
5	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	60





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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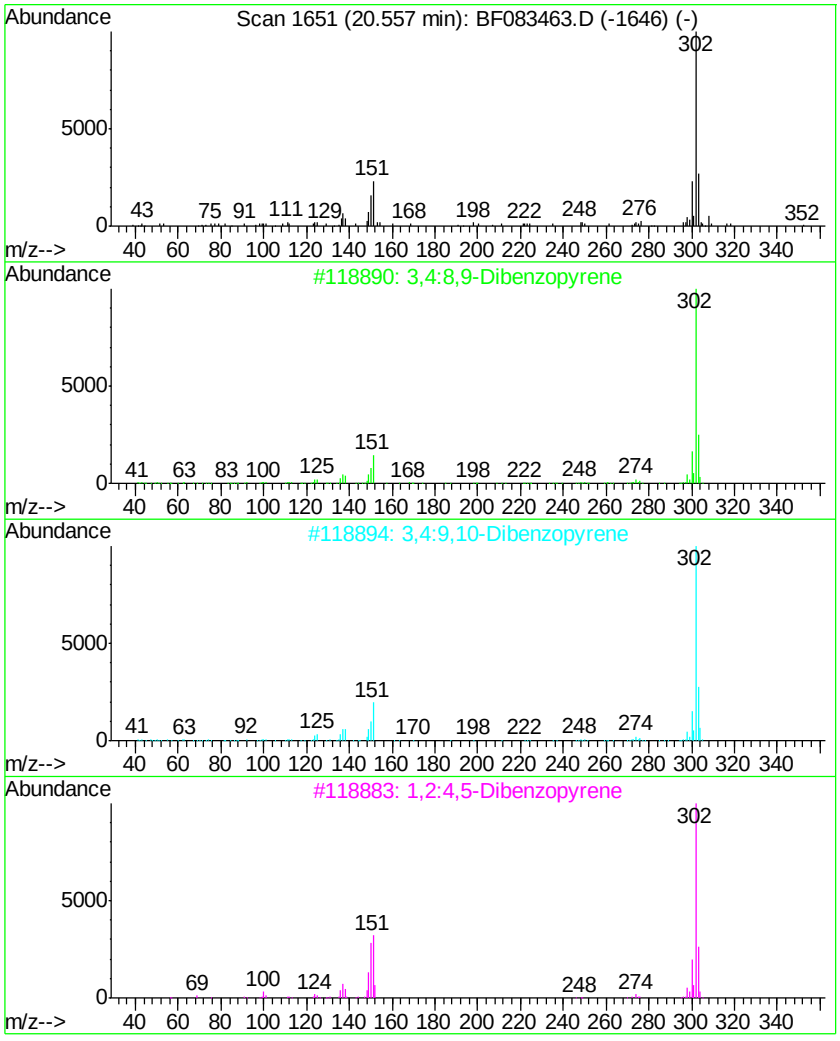
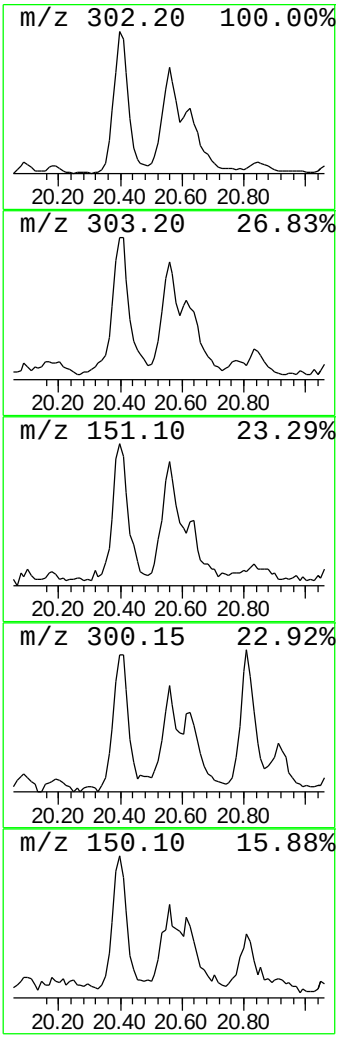
Peak Number 19 3,4:8,9-Dibenzopyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.56	3.40 ng	240543	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
2	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	90
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	90
4	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
5	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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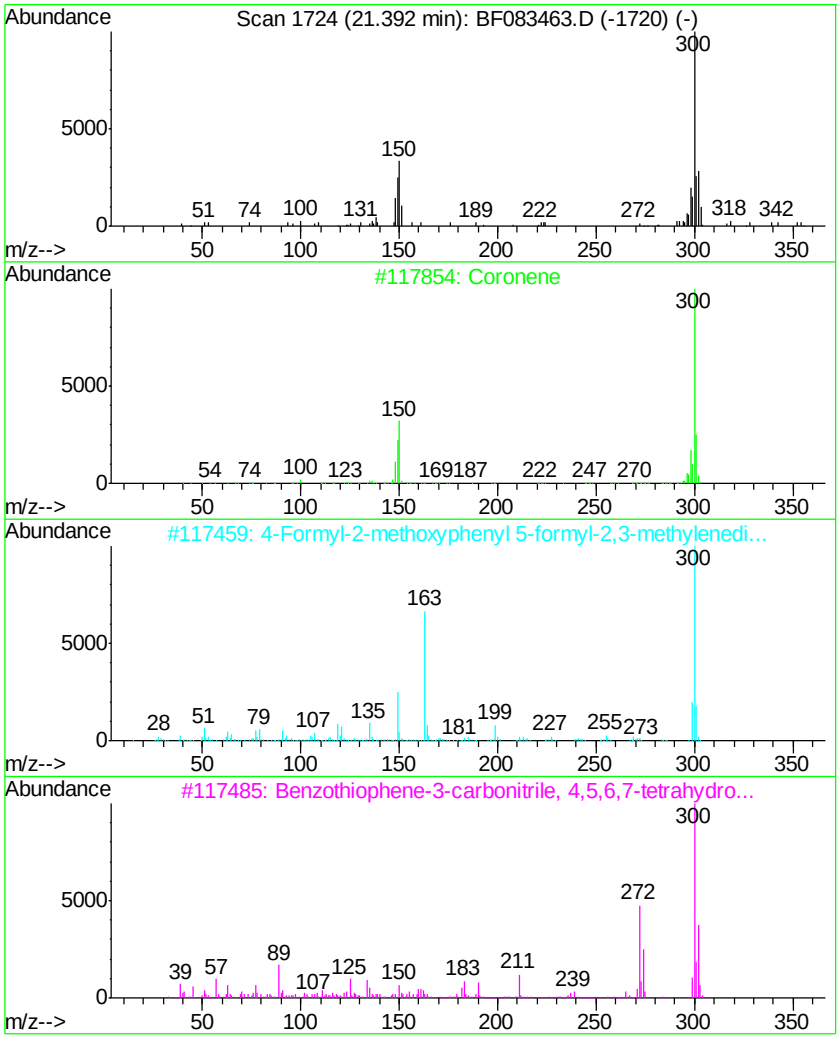
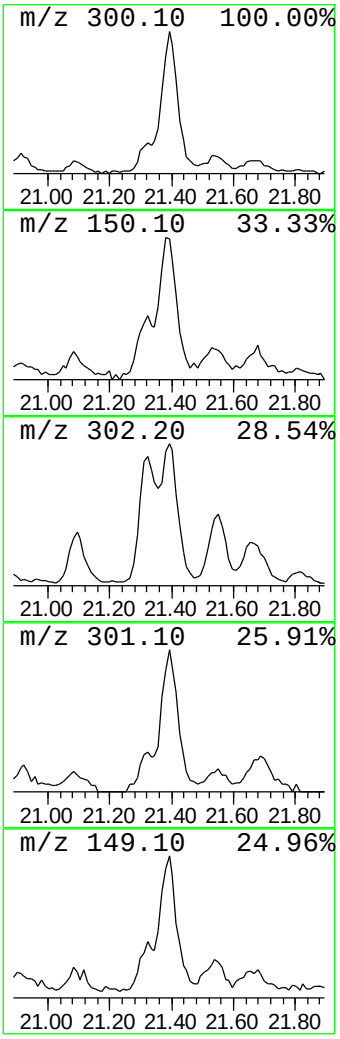
Peak Number 20 Coronene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.39	5.42 ng	382949	Perylene-d12	16.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Coronene	300	C24H12	000191-07-1	95
2	4-Formyl-2-methoxyphenyl 5-formy...	300	C16H12O6	1000242-81-0	47
3	Benzothiophene-3-carbonitrile, 4...	300	C16H13ClN2S	069438-07-9	47
4	Androst-4-ene-3,6,17-trione	300	C19H24O3	002243-06-3	43
5	(3-Cyano-4-thiophen-2-yl-6-trifl...	344	C13H7F3N2O2S2	1000295-94-7	33





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF120315\
Data File : BF083463.D
Acq On : 3 Dec 2015 16:40
Operator : UM/IZ
Sample : G4585-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP3-112415

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.65	31.9	ng	1792880	1	6.52	1123960	20.0
unknown6.30	6.30	106.7	ng	5997600	1	6.52	1123960	20.0
Eicosane	10.02	3.7	ng	301662	3	9.56	1644560	20.0
Hexadecane	10.49	4.2	ng	357252	4	11.09	1685050	20.0
1-Hexadecanol	11.40	9.2	ng	772376	4	11.09	1685050	20.0
n-Hexadecanoic acid	11.79	5.4	ng	453804	4	11.09	1685050	20.0
Benzaldehyde, 3,5...	11.83	3.2	ng	267367	4	11.09	1685050	20.0
9,10-Anthracenedione	12.11	3.5	ng	295178	4	11.09	1685050	20.0
Cyclotetradecane	12.48	11.6	ng	980021	4	11.09	1685050	20.0
Benzo[e]pyrene	16.40	3.2	ng	228389	6	16.77	1413910	20.0
Octadecane	16.57	3.6	ng	252905	6	16.77	1413910	20.0
4,6-Dimethyl-4'-h...	17.01	3.6	ng	255065	6	16.77	1413910	20.0
unknown17.35	17.35	4.2	ng	295719	6	16.77	1413910	20.0
unknown17.89	17.89	4.0	ng	279776	6	16.77	1413910	20.0
9,10-Anthracenedi...	18.01	6.3	ng	445695	6	16.77	1413910	20.0
Dibenz(a,e)aceant...	20.40	6.5	ng	458131	6	16.77	1413910	20.0
3,4:8,9-Dibenzopy...	20.56	3.4	ng	240543	6	16.77	1413910	20.0
Coronene	21.39	5.4	ng	382949	6	16.77	1413910	20.0