LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

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-BF101015.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	5.154	262	264	276	rVB	145461	147750	6.02%	0.530%
2	5.577	299	301	308	rBV	196304	209147	8.52%	0.750%
3	6.606	389	391	400	rBV	162732	216317	8.81%	0.776%
4	6.732	400	402	405	rBV	189631	242849	9.89%	0.871%
5	6.960	421	422	425	rBV	199959	280607	11.43%	1.007%
6	7.120	434	436	438	rBV	254591	213773	8.71%	0.767%
7	7.532	470	472	476	rBV	92848	129268	5.27%	0.464%
8	8.240	533	534	539	rBV	303007	455606	18.56%	1.635%
9	9.315	626	628	630	rBV	426006	341685	13.92%	1.226%
10	9.646	656	657	661	rBV2	19282	39889	1.63%	0.143%
11	9.703	661	662	665	rVB2	75123	74152	3.02%	0.266%
12	9.989	685	687	689	rBV	416263	543113	22.13%	1.949%
13	10.023	689	690	692	rVB	135172	121016	4.93%	0.434%
14	10.195	703	705	707	rBV	74467	78154	3.18%	0.280%
15	10.538	733	735	738	rVB	68214	68394	2.79%	0.245%
16	10.629	738	743	746	rBV2	20567	49170	2.00%	0.176%
17	10.698	746	749	751	rVB2	42483	49023	2.00%	0.176%
18	10.778	754	756	759	rBV	252773	269970	11.00%	0.969%
19	11.086	780	783	784	rBV2	25779	39420	1.61%	0.141%
20	11.235	795	796	799	rVV2	33411	34903	1.42%	0.125%
21	11.281	799	800	802	rVV	112261	139145	5.67%	0.499%
22	11.338	802	805	807	rVV2	189450	209113	8.52%	0.750%
23	11.395	807	810	812	rVB2	76788	141974	5.78%	0.509%
24	11.509	815	820	822	rVV2	1910322	2454421	100.00%	8.807%
25	11.555	822	824	826	rVV	347492	334863	13.64%	1.202%
26	11.715	835	838	842	rBV2	151030	235499	9.59%	0.845%
27	11.772	842	843	845	rVB2	44397	41911	1.71%	0.150%
28	11.818	845	847	849	rVB2	25759	36825	1.50%	0.132%
29	11.978	859	861	862	rVV	189249	184822	7.53%	0.663%
30	12.012	862	864	866	rVB	207480	239008	9.74%	0.858%
31	12.058	866	868	869	rBV	68722	60527	2.47%	0.217%
32	12.092	869	871	876	rVB2	222146	357113	14.55%	1.281%
33	12.161	876	877	878	rBV	43568	37589	1.53%	0.135%
34	12.275	885	887	888	rBV	149017	125068	5.10%	0.449%

LSC Area Percent Report

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Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

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-BF101015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.309	888	890	892	rVB	101088	133180	5.43%	0.478%
36	12.424	898	900	901	rBV	44931	37164	1.51%	0.133%
37	12.526	906	909	910	rBV2	109770	143135	5.83%	0.514%
38	12.584	913	914	915	rVV	50183	37264	1.52%	0.134%
39	12.618	915	917	920	rVB	166939	174115	7.09%	0.625%
40	12.698	921	924	926	rBV	2323482	2244785	91.46%	8.055%
41	12.755	926	929	931	rVV2	46726	61059	2.49%	0.219%
42	12.846	933	937	938	rBV3	87768	145110	5.91%	0.521%
43	12.869	938	939	941	rVB	180265	162124	6.61%	0.582%
44	12.926	941	944	947	rBV	1851349	2218185	90.38%	7.960%
45	12.972	947	948	950	rVB	107914	95037	3.87%	0.341%
46	13.064	952	956	960	rVB3	409494	630983	25.71%	2.264%
47	13.144	960	963	965	rBV2	132046	240857	9.81%	0.864%
48	13.178	965	966	969	rBV	29528	40308	1.64%	0.145%
49	13.247	969	972	974	rVB2	138946	283834	11.56%	1.018%
50	13.281	974	975	977	rBV	36928	44308	1.81%	0.159%
51	13.315	977	978	980	rBV	37706	54995	2.24%	0.197%
52	13.361	980	982	985	rVB3	137769	212924	8.68%	0.764%
53	13.452	988	990	991	rBV	73174	81855	3.34%	0.294%
54	13.487	991	993	997	rVB2	85342	114277	4.66%	0.410%
55	13.589	1000	1002	1004	rVB	160935	145042	5.91%	0.520%
56	13.658	1004	1008	1012	rBV5	55714	174965	7.13%	0.628%
57	13.772	1016	1018	1021	rBV	240712	272901	11.12%	0.979%
58	13.887	1025	1028	1030	rBV	210685	307058	12.51%	1.102%
59	13.921	1030	1031	1032	rVV	154370	119153	4.85%	0.428%
60	13.944	1032	1033	1035	rVV	136727	199445	8.13%	0.716%
61	13.989	1035	1037	1041	rVB2	200399	344074	14.02%	1.235%
62	14.069	1041	1044	1047	rBV	46335	89375	3.64%	0.321%
63	14.149	1047	1051	1053	rBV	1191066	2123634	86.52%	7.620%
64	14.184	1053	1054	1060	rVB	870746	970317	39.53%	3.482%
65	14.264	1060	1061	1064	rBV	54531	71467	2.91%	0.256%
66	14.321	1064	1066	1069	rBV3	64635	120863	4.92%	0.434%
67	14.401	1071	1073	1075	rVB2	63799	81765	3.33%	0.293%
68	14.504	1080	1082	1083	rBV2	23764	42503	1.73%	0.153%
69	14.527	1083	1084	1086	rBV2	40629	59543	2.43%	0.214%
70	14.572	1086	1088	1090	rVB	181586	168919	6.88%	0.606%
71	14.607	1090	1091	1093	rVB	73291	75926	3.09%	0.272%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

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-BF101015.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.652	1093	1095	1098	rBV3	64298	99143	4.04%	0.356%
73	14.710	1098	1100	1101	rBV2	61088	58047	2.36%	0.208%
74	14.790	1106	1107	1110	rVB2	57301	66110	2.69%	0.237%
75	14.915	1115	1118	1119	rBV	81026	102836	4.19%	0.369%
76	14.984	1123	1124	1127	rBV2	46386	84060	3.42%	0.302%
77	15.098	1132	1134	1136	rBV2	66775	111673	4.55%	0.401%
78	15.178	1139	1141	1142	rBV2	30212	45181	1.84%	0.162%
79	15.212	1142	1144	1146	rVB	36356	46341	1.89%	0.166%
80	15.270	1146	1149	1153	rBV	853669	1846834	75.25%	6.627%
81	15.327	1153	1154	1157	rVB2	37062	48979	2.00%	0.176%
82	15.372	1157	1158	1160	rVB	125884	149658	6.10%	0.537%
83	15.487	1164	1168	1170	rBV2	46569	125978	5.13%	0.452%
84	15.578	1173	1176	1179	rVB	452197	635916	25.91%	2.282%
85	15.647	1179	1182	1185	rVB	664498	827888	33.73%	2.971%
86	15.704	1185	1187	1189	rBV	370066	620804	25.29%	2.228%
87	16.161	1225	1227	1230	rBV	59393	96078	3.91%	0.345%
88	16.767	1277	1280	1282	rBV3	26516	51940	2.12%	0.186%
89	17.018	1299	1302	1303	rBV2	32700	55210	2.25%	0.198%
90	17.224	1316	1320	1323	rBV2	256603	581056	23.67%	2.085%
91	17.293	1324	1326	1330	rVB2	40726	75172	3.06%	0.270%
92	17.395	1331	1335	1338	rBV	60375	146850	5.98%	0.527%
93	17.464	1338	1341	1344	rVV2	52090	138693	5.65%	0.498%
94	17.521	1344	1346	1353	rVB5	42569	106809	4.35%	0.383%
95	17.670	1355	1359	1365	rVV	185741	444321	18.10%	1.594%
96	17.796	1368	1370	1377	rVV8	27375	92793	3.78%	0.333%
97	17.921	1377	1381	1390	rVB2	44833	153744	6.26%	0.552%
98	19.990	1557	1562	1570	rVB2	40605	160251	6.53%	0.575%
99	20.184	1574	1579	1583	rBV2	28026	106592	4.34%	0.382%
100	21.156	1659	1664	1667	rBV2	16955	64858	2.64%	0.233%

Sum of corrected areas: 27868348

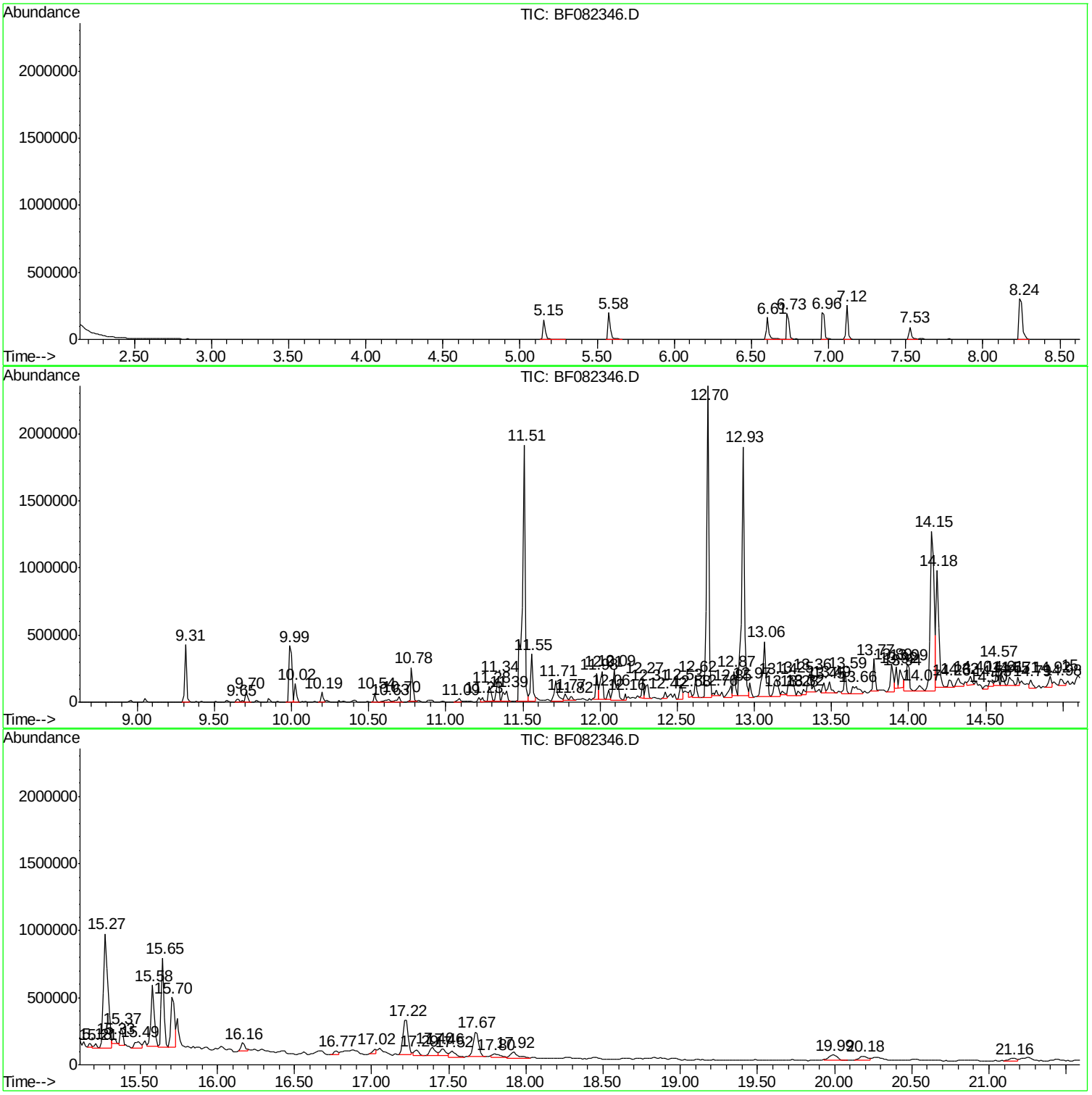
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.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\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

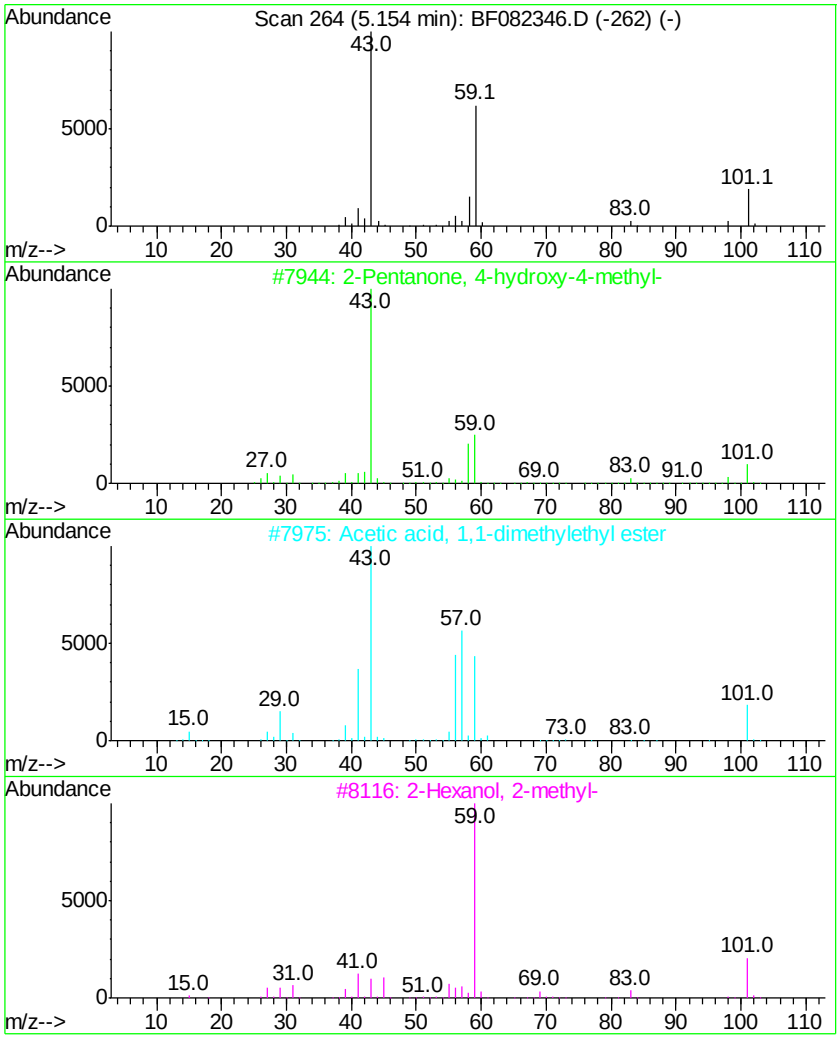
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

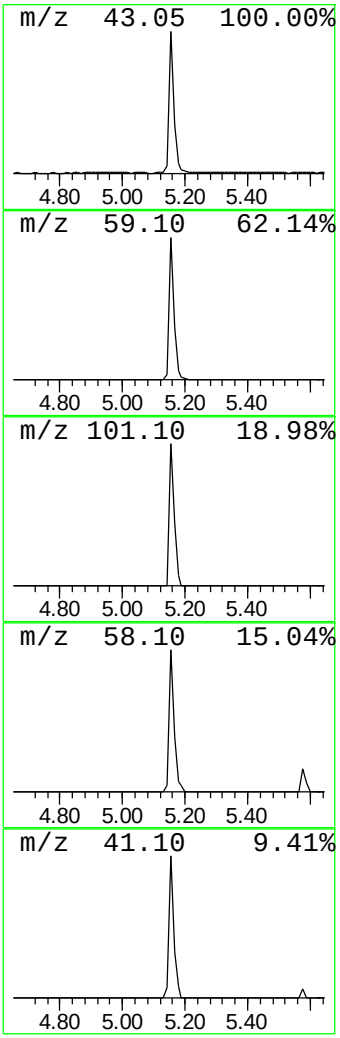
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.15	10.53 ng	147750	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	59
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
3	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	33
4	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
5	1,8-Nonanediol, 8-methyl-	174	C10H22O2	054725-73-4	25





Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

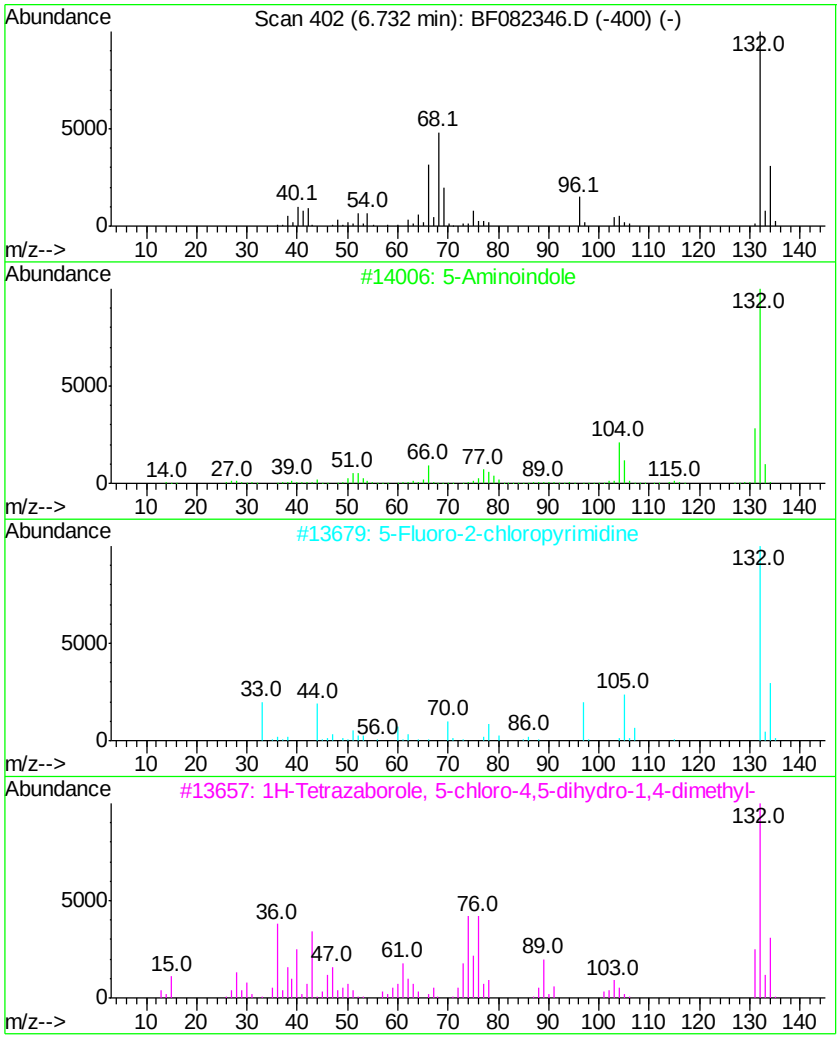
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

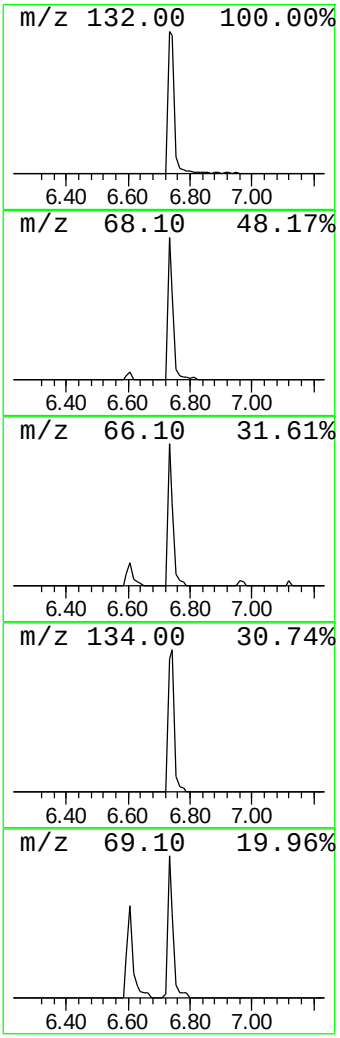
****

Peak Number 2 unknown6.73 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	17.31 ng	242849	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Aminoindole	132	C8H8N2	005192-03-0	22
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3	1H-Tetrazaborole, 5-chloro-4,5-d...	132	C2H6BClN4	021960-49-6	12
4	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	10
5	Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
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ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

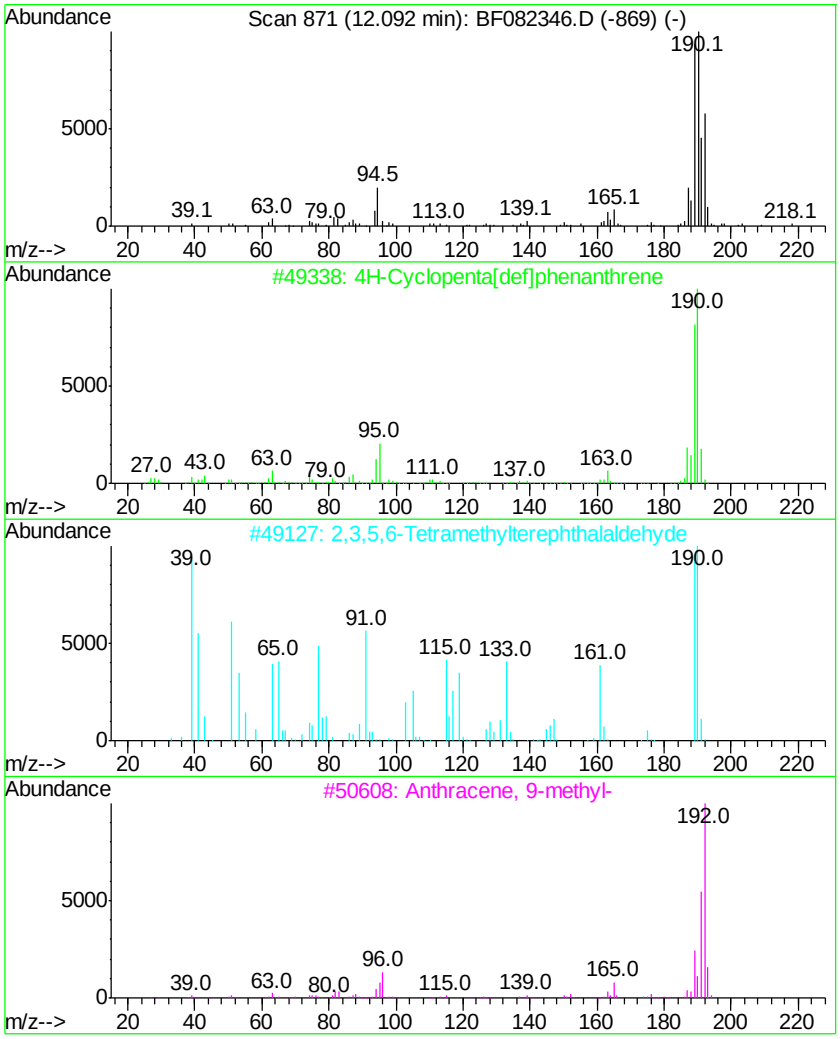
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

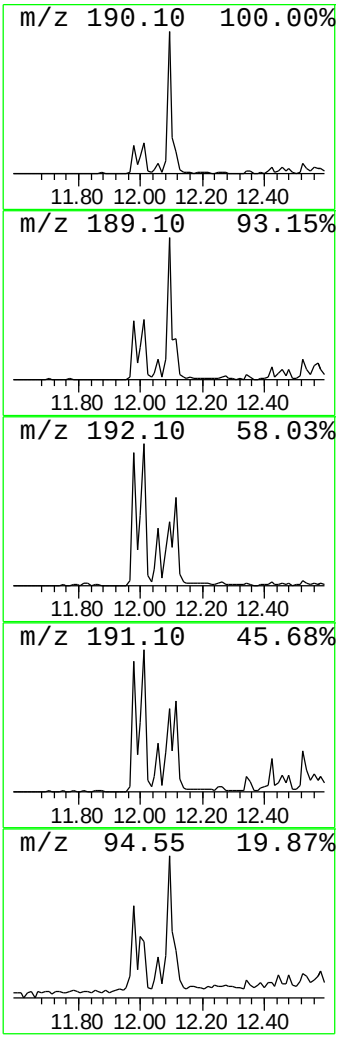
****

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	2.91 ng	357113	Phenanthrene-d10	11.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	25
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	20
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	20





Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

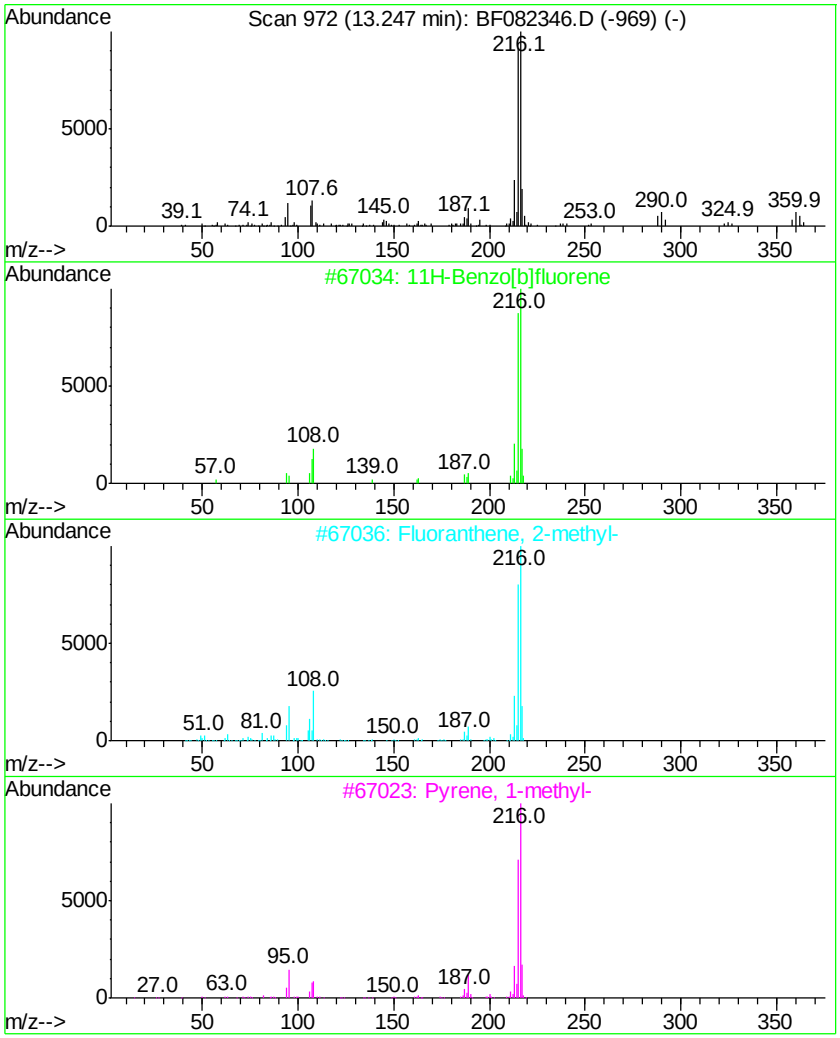
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

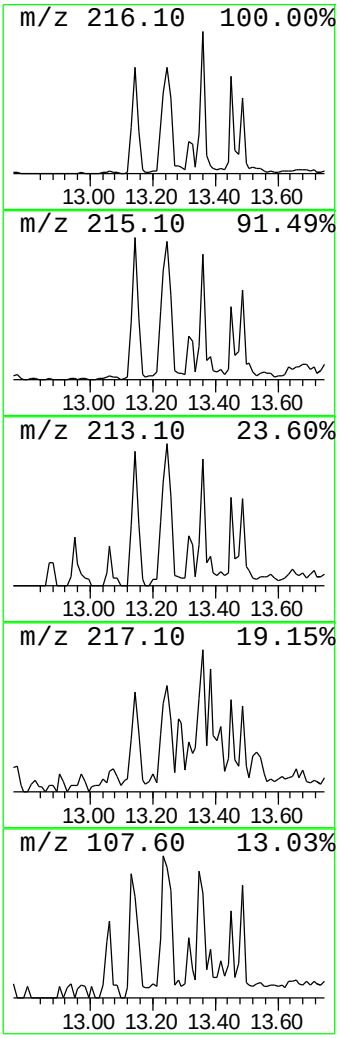
****

Peak Number 5 11H-Benzo[b]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.25	2.67 ng	283834	Chrysene-d12	14.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

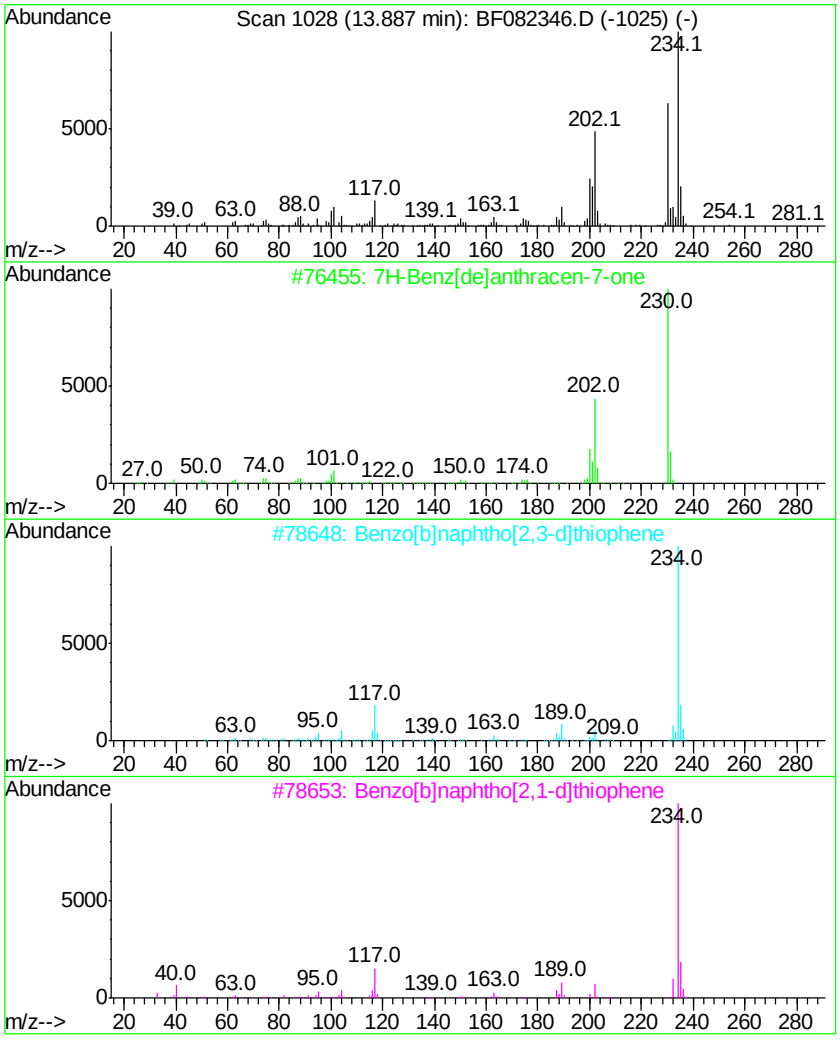
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

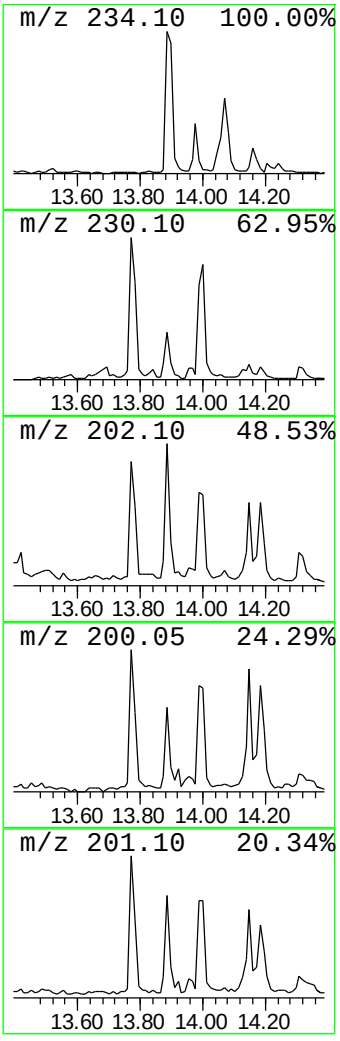
****

Peak Number 6 7H-Benz[de]anthracen-7-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.89	2.89 ng	307058	Chrysene-d12	14.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	83
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	70
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	64
4	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	44
5	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	38





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Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

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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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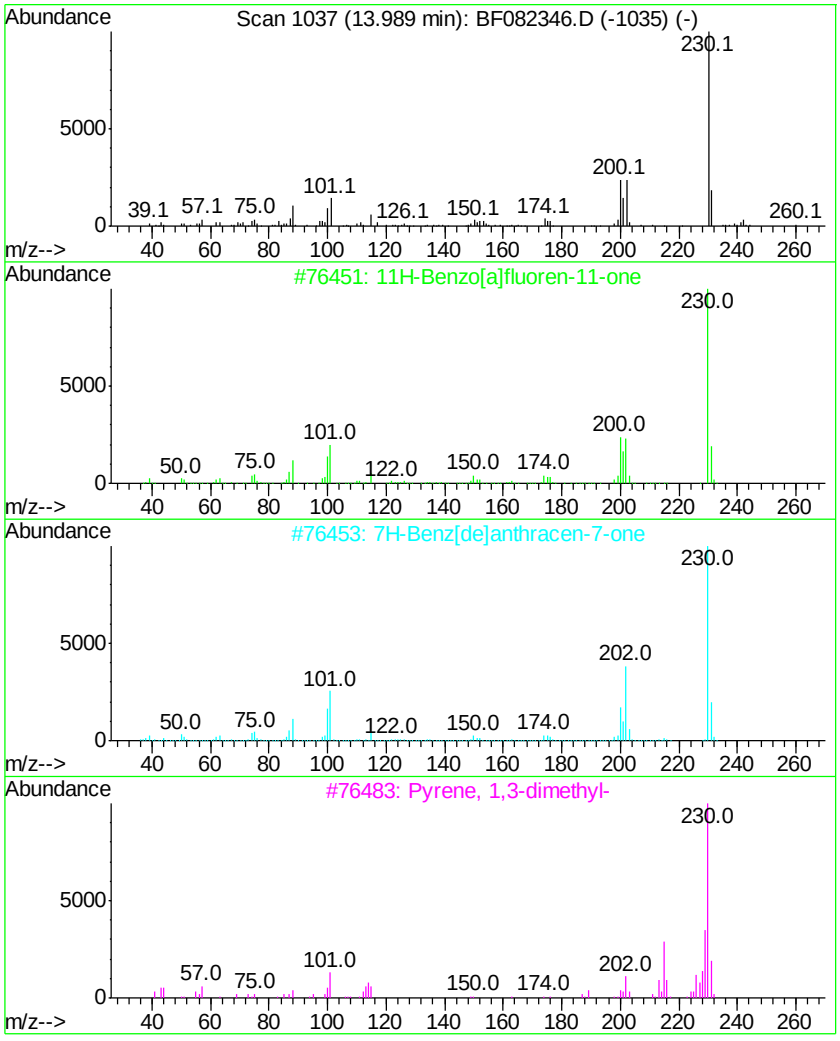
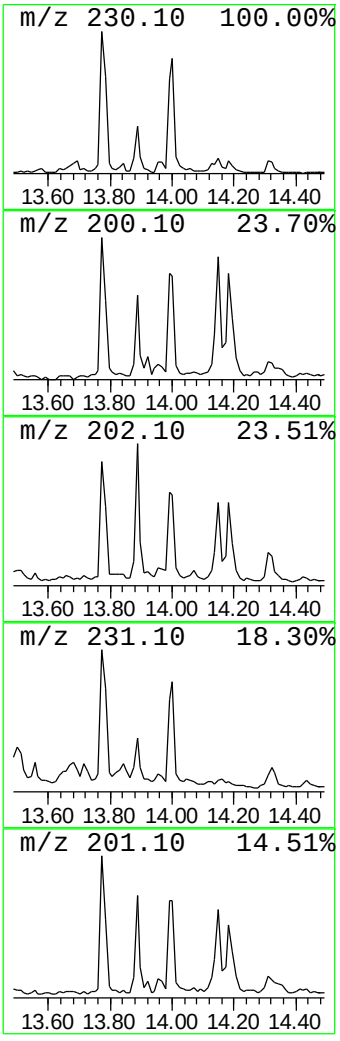
Peak Number 7 11H-Benzo[a]fluoren-11-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.99	3.24 ng	344074	Chrysene-d12	14.16

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	53
4	1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	50
5	o-Terphenyl	230	C18H14	000084-15-1	50





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Misc :
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Instrument : BNA_F
ClientSampleId : KW-2

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

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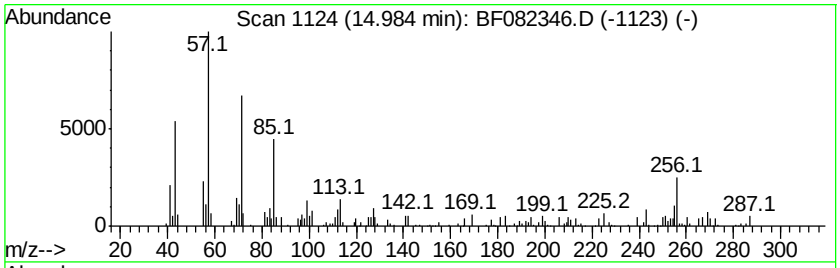
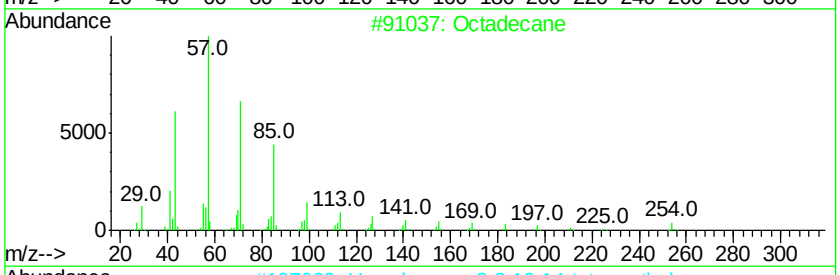
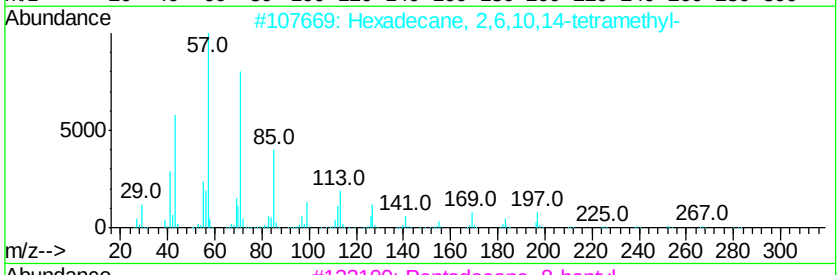
Peak Number 8 Octadecane Concentration Rank 19

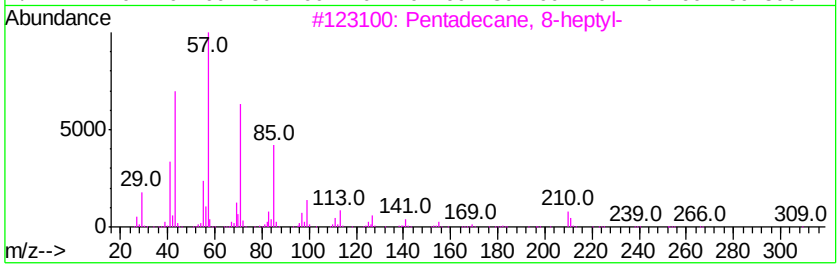
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.98	2.71 ng	84060	Perylene-d12	15.70

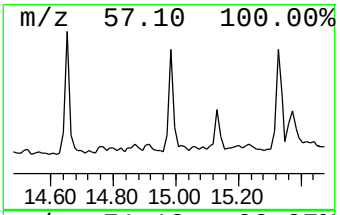
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	78
2	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	70
3	Pentadecane, 8-heptyl-	310	C22H46	071005-15-7	46
4	Octane, 2-methyl-	128	C9H20	003221-61-2	46
5	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	46

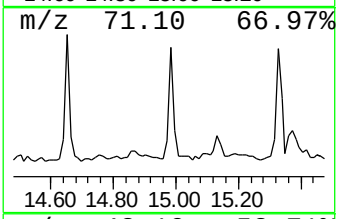


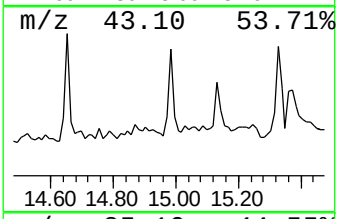


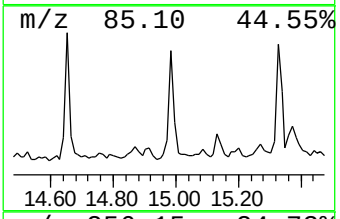


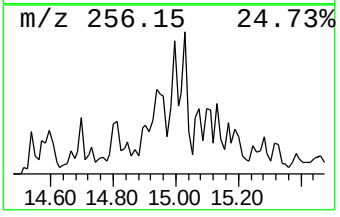












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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.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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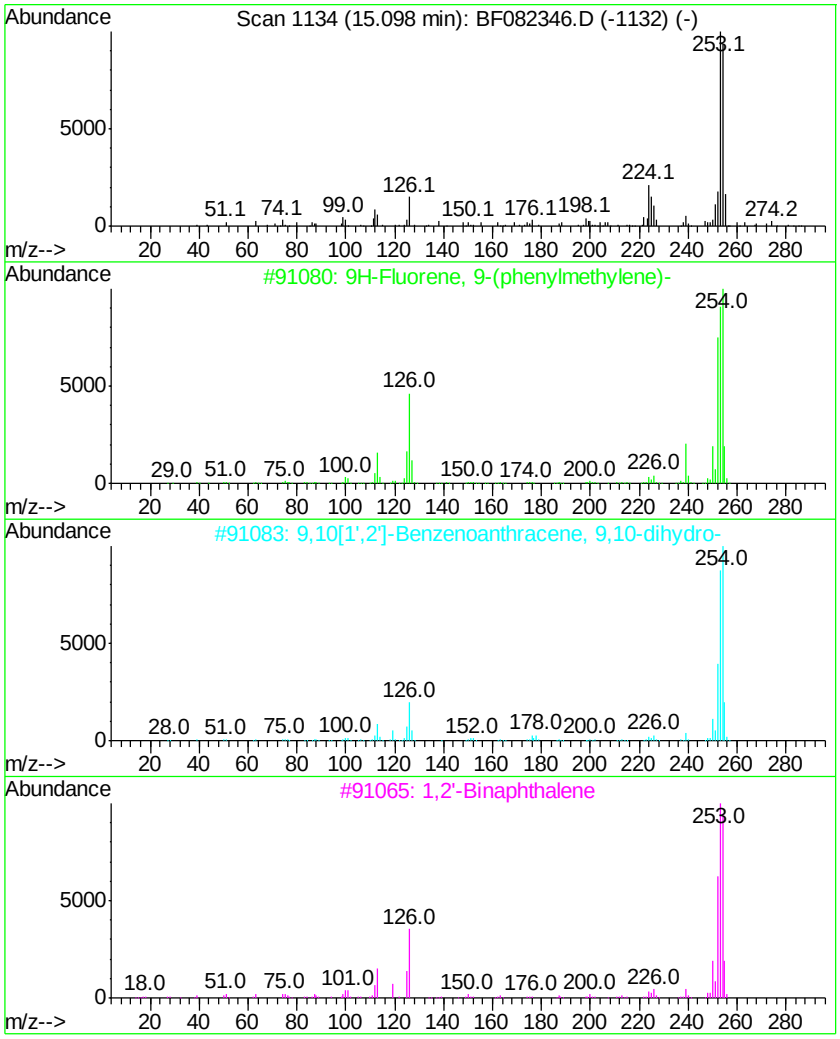
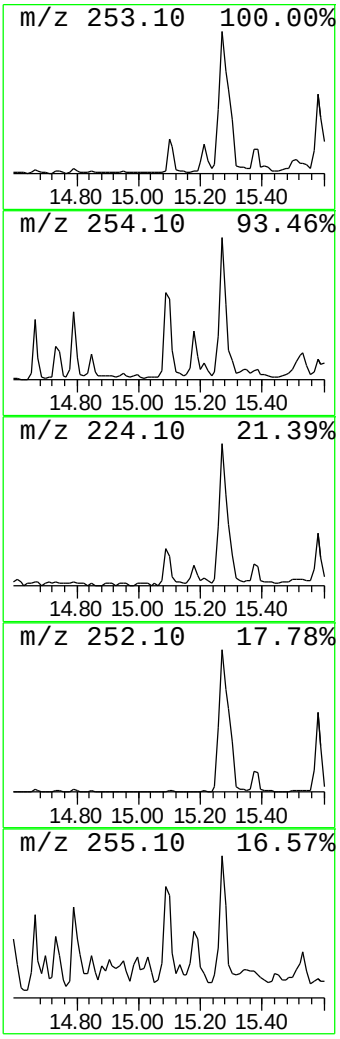
Peak Number 9 9H-Fluorene, 9-(phenylmethy... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	3.60 ng	111673	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	72
2	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
3	1,2'-Binaphthalene	254	C20H14	004325-74-0	68
4	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	64
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64





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TIC Integration Parameters: LSCINT.P

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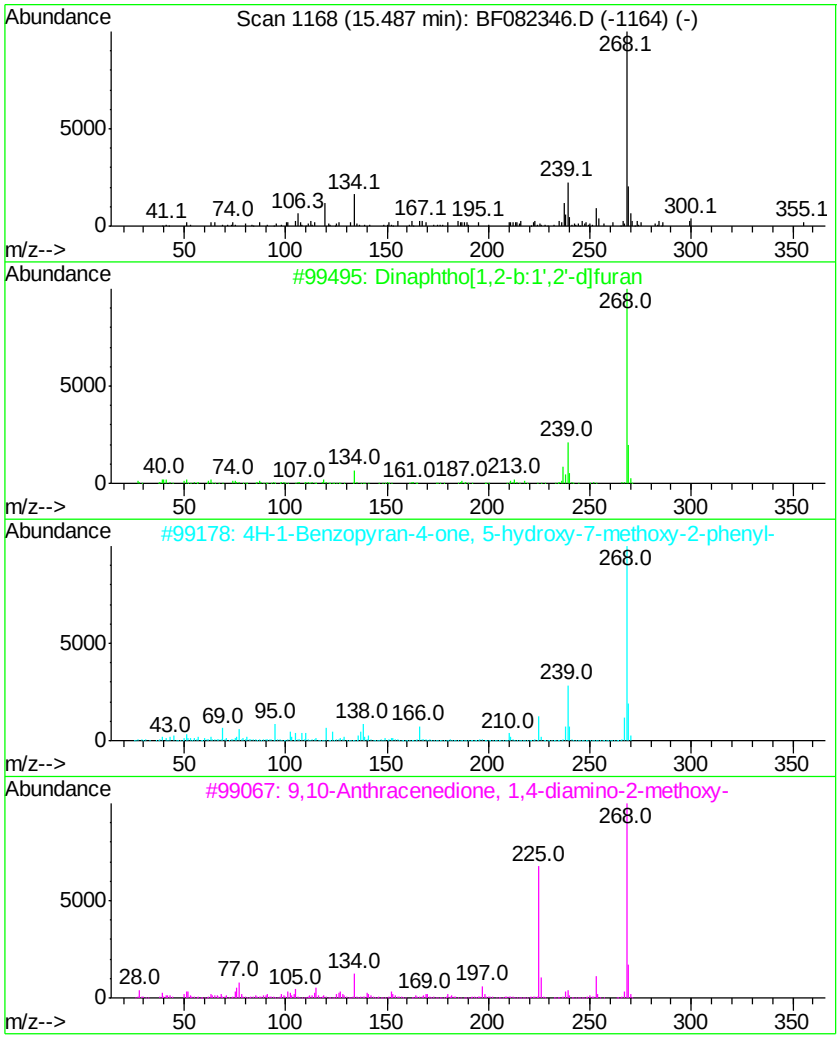
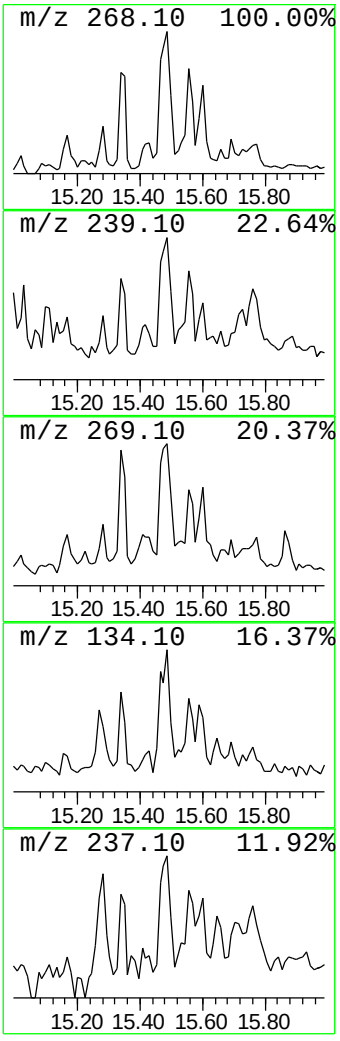
Peak Number 11 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	4.06 ng	125978	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	87
2	4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	59
3	9,10-Anthracenedione, 1,4-diamin...	268	C15H12N2O3	002872-48-2	59
4	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	53
5	9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	53





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ClientSampleId : KW-2

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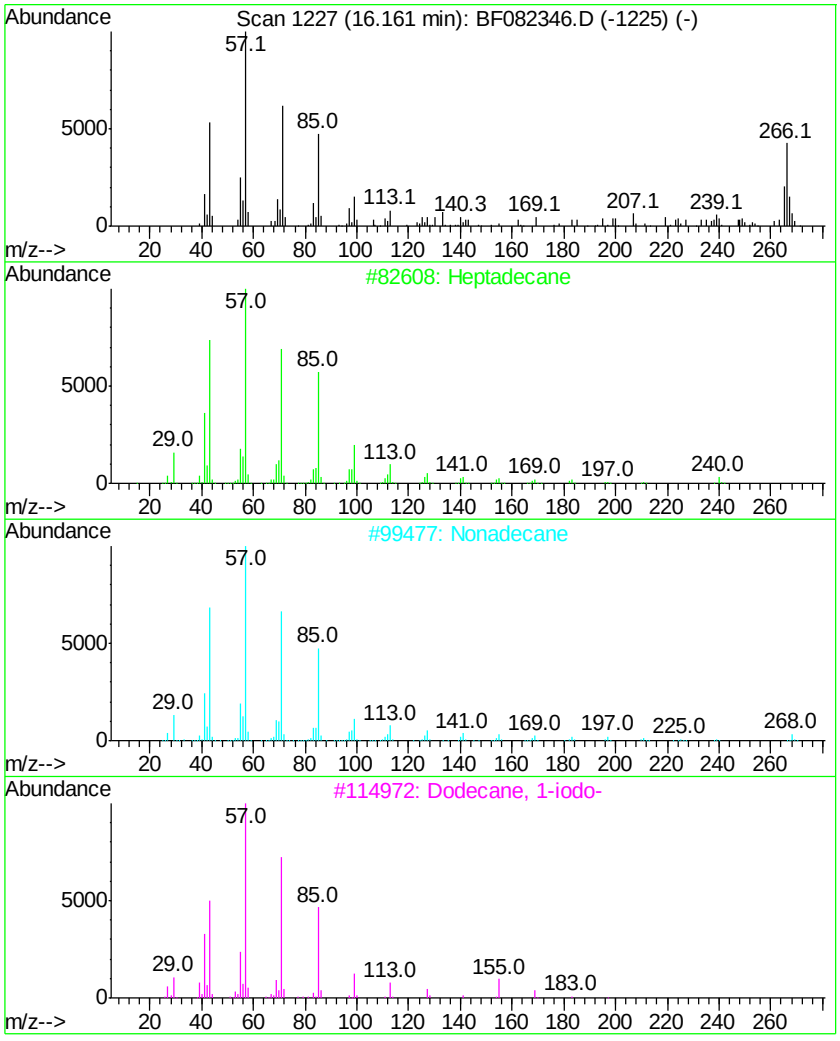
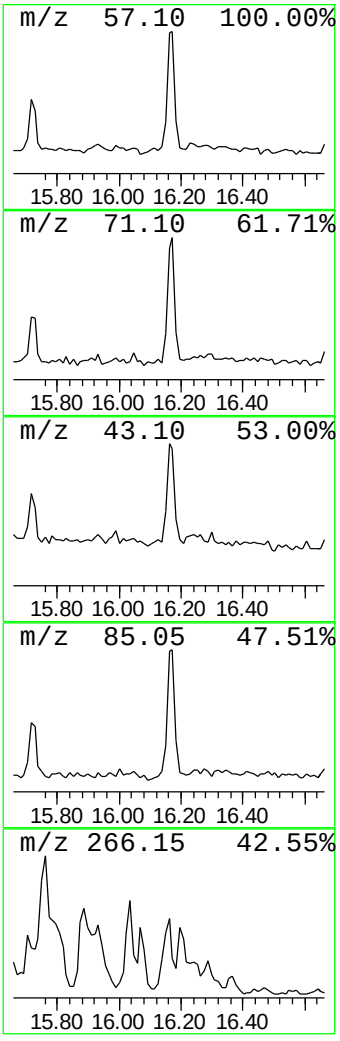
Peak Number 13 Heptadecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.16	3.10 ng	96078	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	60
2	Nonadecane	268	C19H40	000629-92-5	46
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	41
4	Octadecane	254	C18H38	000593-45-3	38
5	Hexacosane	366	C26H54	000630-01-3	38





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

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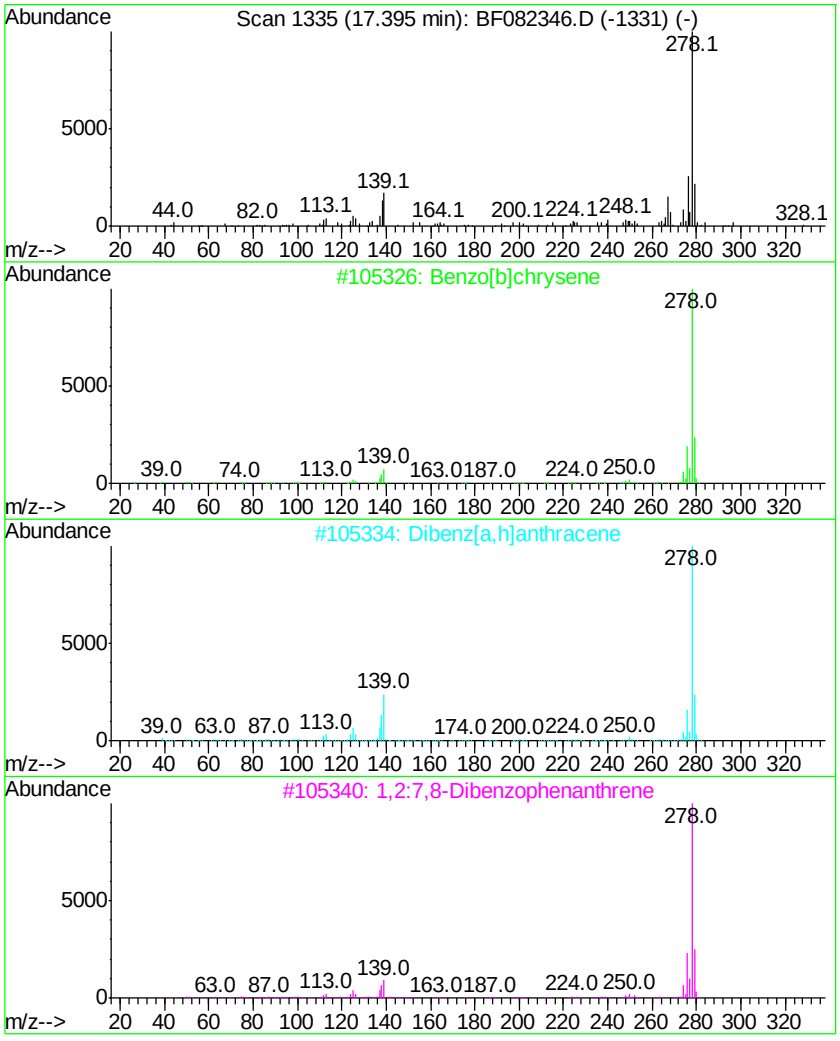
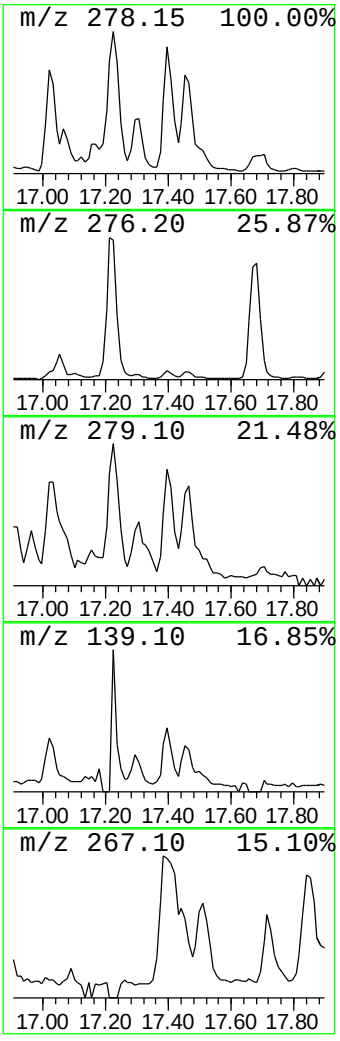
Peak Number 14 Benzo[b]chrysene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.40	4.73 ng	146850	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]chrysene	278	C22H14	000214-17-5	93
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	93
4	Benzo[a]naphthacene	278	C22H14	000226-88-0	90
5	Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	89





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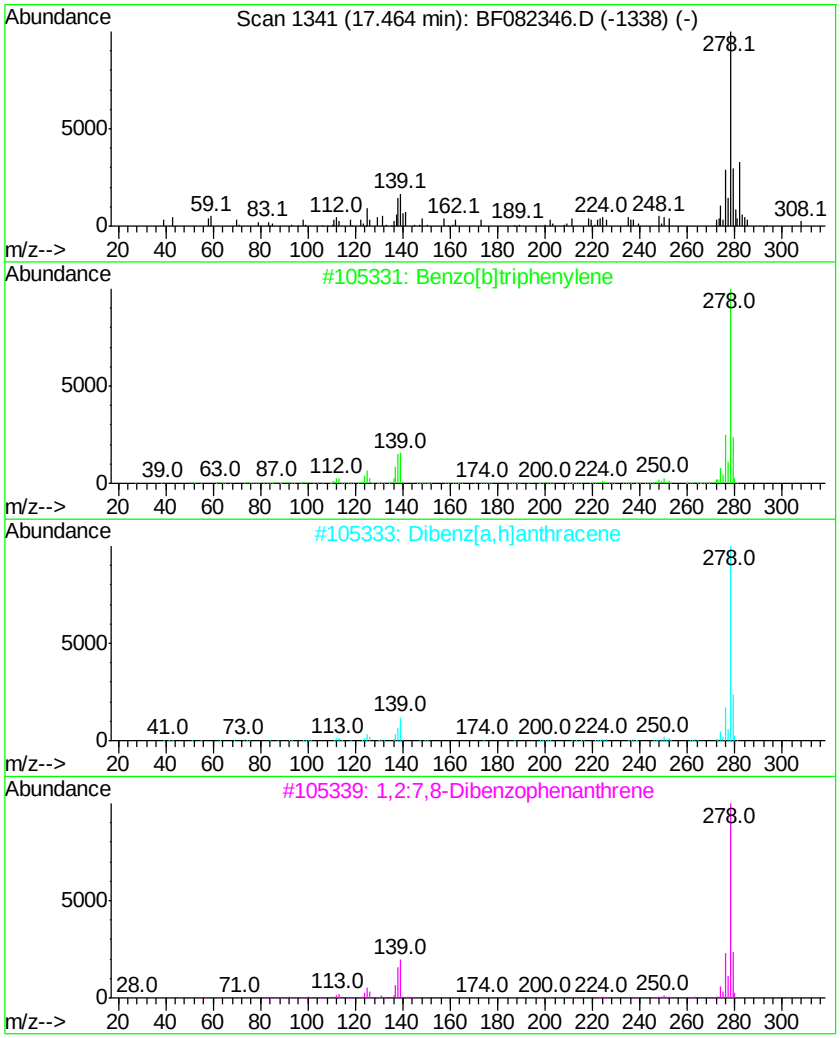
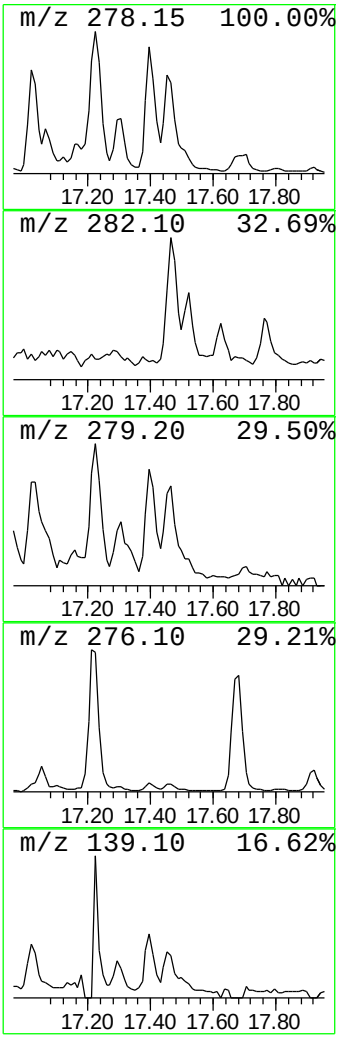
Peak Number 15 Benzo[b]triphenylene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.46	4.47 ng	138693	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	91
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	64
3	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	60
4	Pentacene	278	C22H14	000135-48-8	60
5	Benzo[b]chrysene	278	C22H14	000214-17-5	60





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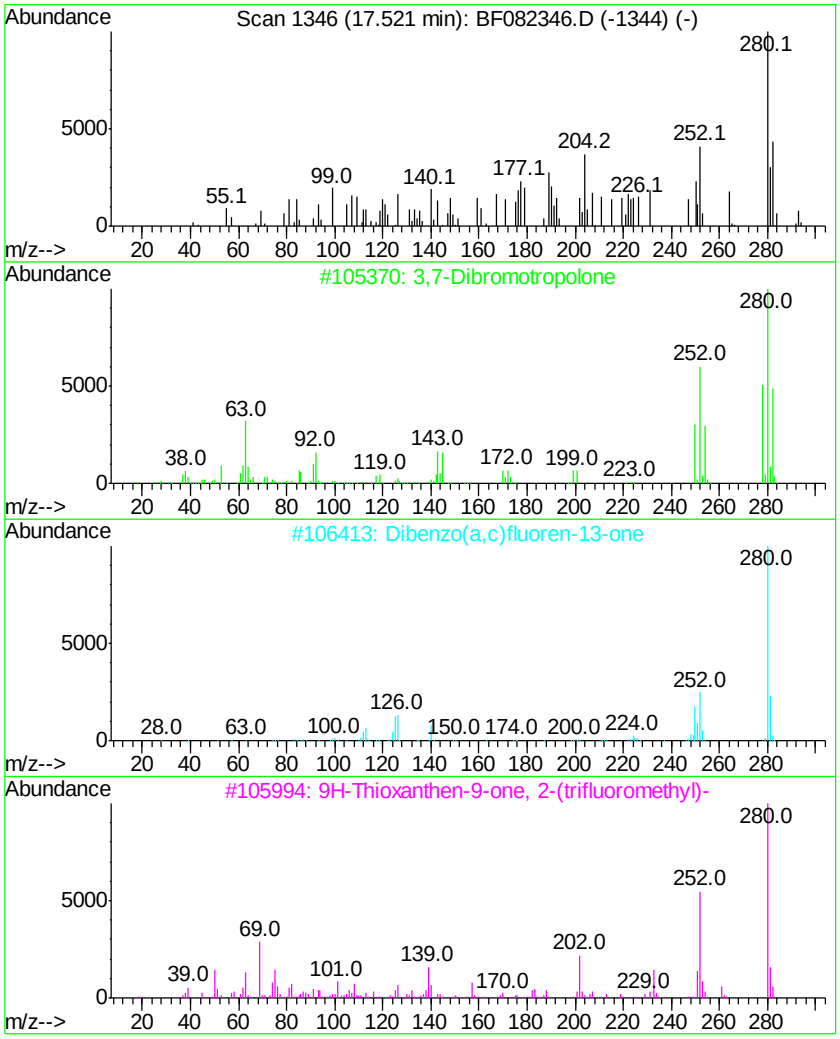
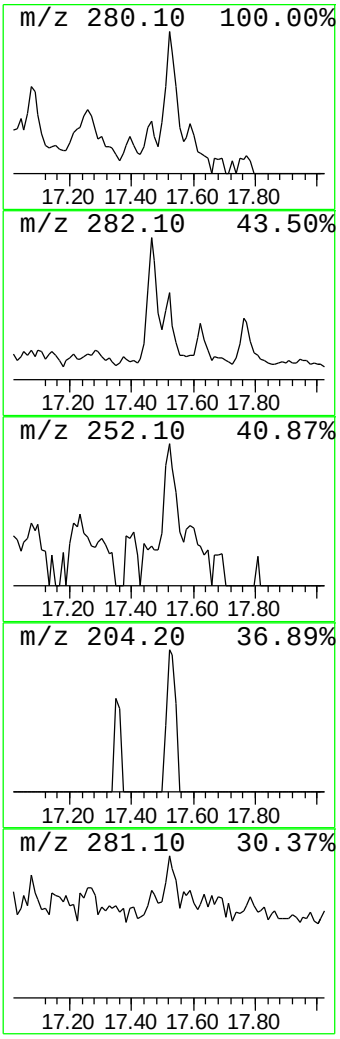
Peak Number 16 3,7-Dibromotropolone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.52	3.44 ng	106809	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,7-Dibromotropolone	278	C7H4Br2O2	004636-41-3	64
2	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	60
3	9H-Thioxanthen-9-one, 2-(trifluo...	280	C14H7F3OS	001693-28-3	46
4	3-Hydroxy-D-homoestra-1,3,5(10),...	280	C19H20O2	1000215-90-6	40
5	Benzene, 1,2-bis(2-pyridin-2-yle...	280	C20H12N2	350587-04-1	38





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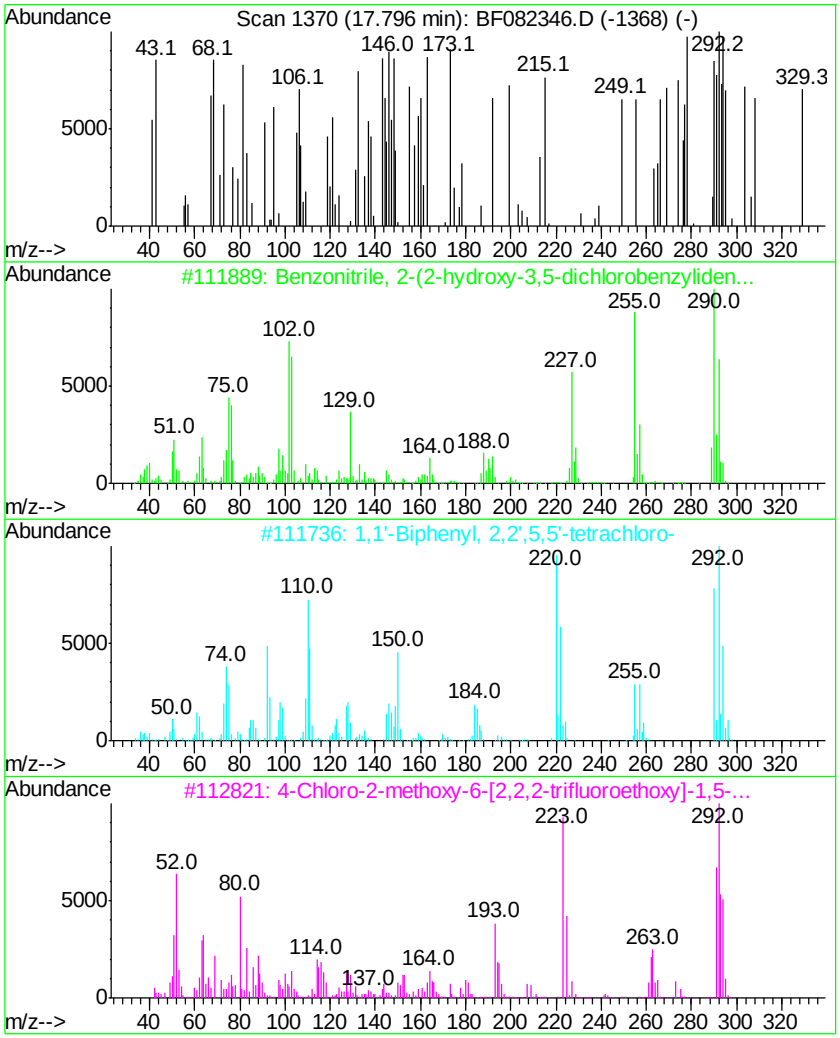
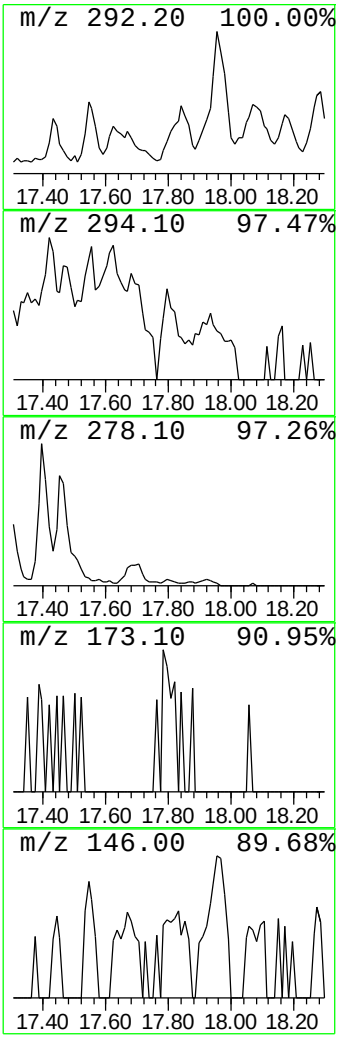
Peak Number 17 unknown17.80 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.80	2.99 ng	92793	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzonitrile, 2-(2-hydroxy-3,5-d...	290	C14H8Cl2N2O	316133-55-8	38
2	1,1'-Biphenyl, 2,2',5,5'-tetrach...	290	C12H6Cl4	035693-99-3	14
3	4-Chloro-2-methoxy-6-[2,2,2-trif...	292	C11H8ClF3N2O2	1000214-39-8	11
4	1,1'-Biphenyl, 2,3',5,5'-tetrach...	290	C12H6Cl4	041464-42-0	10
5	2-Bromophenazine 5,10-dioxide	290	C12H7BrN2O2	006975-74-2	10





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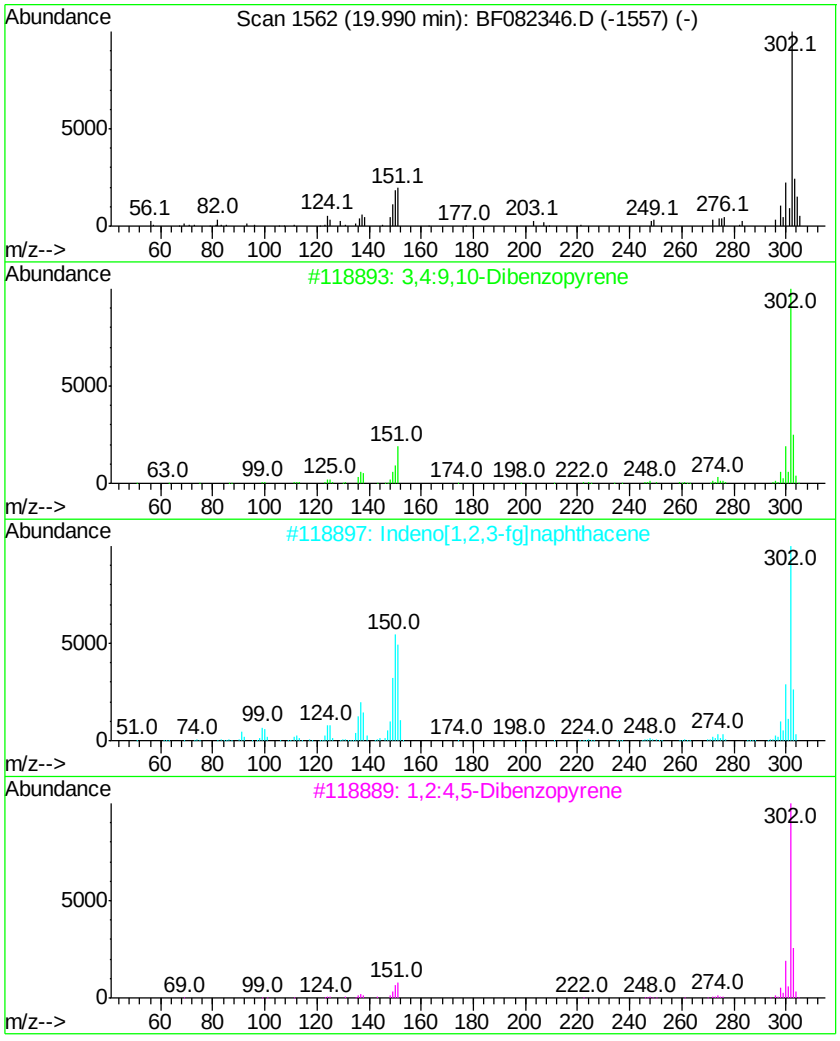
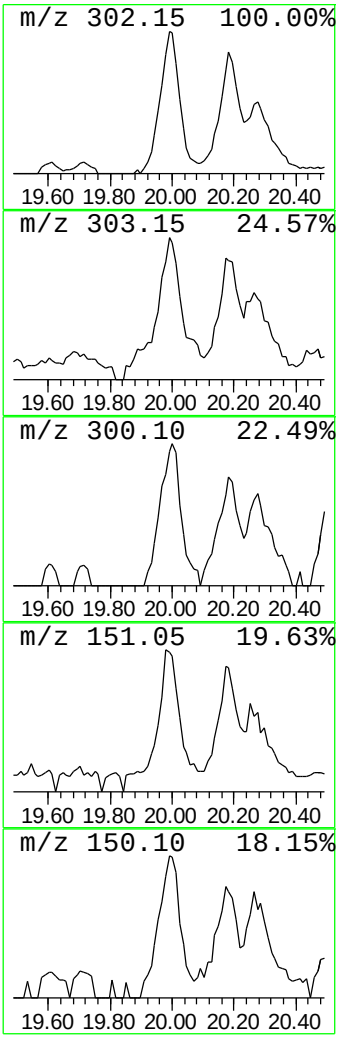
Peak Number 19 3,4:9,10-Dibenzopyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.99	5.16 ng	160251	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	93
2	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	92
3	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	92
4	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	76





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ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

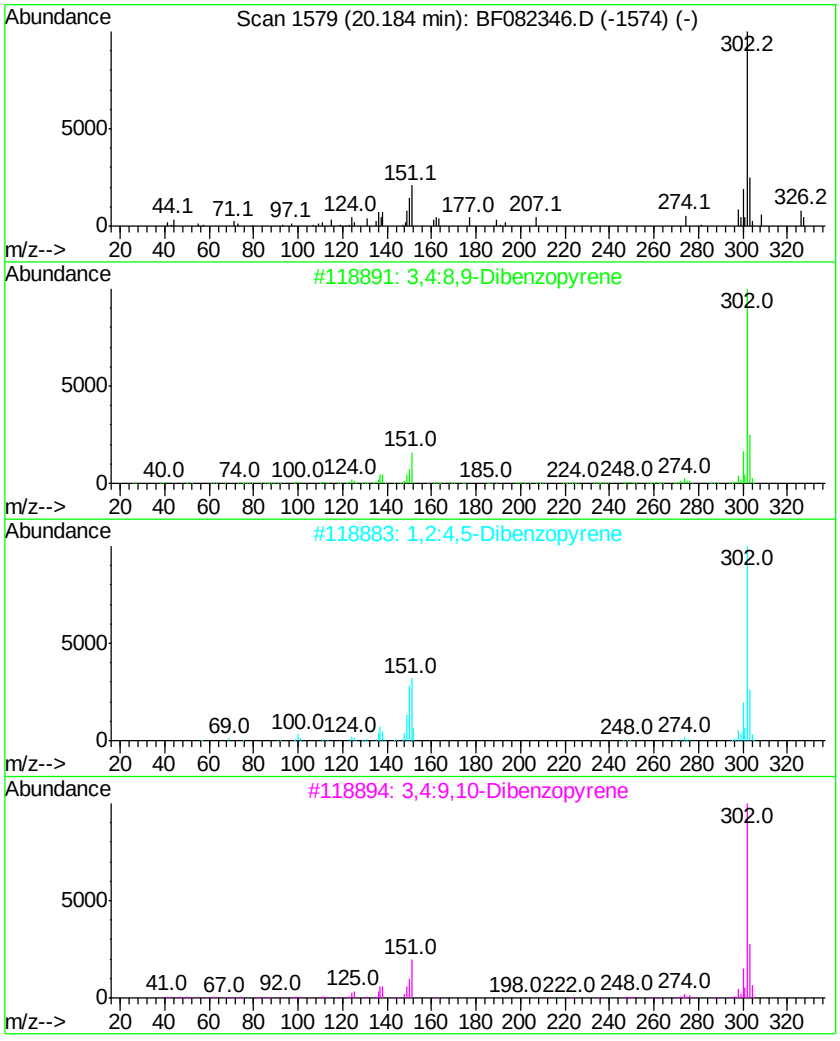
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

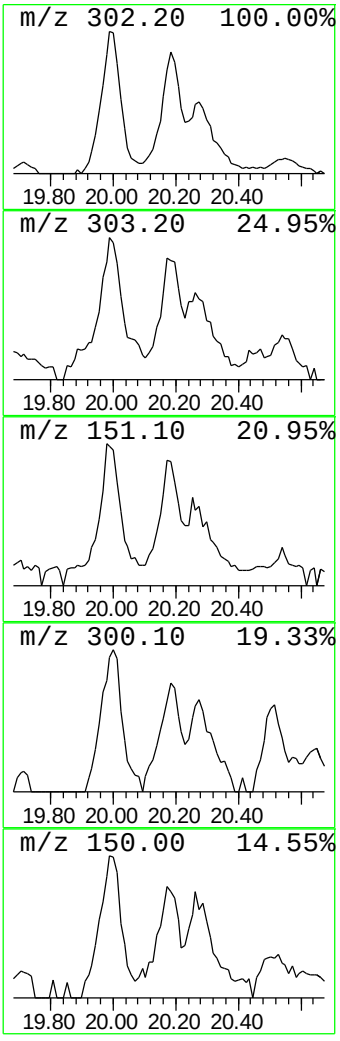
****

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.18	3.43 ng	106592	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	76
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	68
3	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	68
4	Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	53
5	1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	52





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101715\
Data File : BF082346.D
Acq On : 17 Oct 2015 2:02
Operator : UM/IZ
Sample : G4009-02 5X
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KW-2

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.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...	5.15	10.5	ng	147750	1	6.97	280607	20.0
unknown6.73	6.73	17.3	ng	242849	1	6.97	280607	20.0
4H-Cyclopenta[def...	12.09	2.9	ng	357113	4	11.47	2454420	20.0
11H-Benzo[b]fluorene	13.25	2.7	ng	283834	5	14.16	2123630	20.0
7H-Benz[de]anthra...	13.89	2.9	ng	307058	5	14.16	2123630	20.0
11H-Benzo[a]fluor...	13.99	3.2	ng	344074	5	14.16	2123630	20.0
Octadecane	14.98	2.7	ng	84060	6	15.70	620804	20.0
9H-Fluorene, 9-(p...	15.10	3.6	ng	111673	6	15.70	620804	20.0
Dinaphtho[1,2-b:1...	15.49	4.1	ng	125978	6	15.70	620804	20.0
Heptadecane	16.16	3.1	ng	96078	6	15.70	620804	20.0
Benzo[b]chrysene	17.40	4.7	ng	146850	6	15.70	620804	20.0
Benzo[b]triphenylene	17.46	4.5	ng	138693	6	15.70	620804	20.0
3,7-Dibromotropolone	17.52	3.4	ng	106809	6	15.70	620804	20.0
unknown17.80	17.80	3.0	ng	92793	6	15.70	620804	20.0
3,4:9,10-Dibenzop...	19.99	5.2	ng	160251	6	15.70	620804	20.0
3,4:8,9-Dibenzopy...	20.18	3.4	ng	106592	6	15.70	620804	20.0