LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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	6.652	393	395	398	rBV2	24568	41708	1.78%	0.197%
2	6.834	409	411	413	rBV	292392	328337	13.98%	1.547%
3	6.880	413	415	422	rVV2	19083	37838	1.61%	0.178%
4	7.006	424	426	429	rVV	293373	278160	11.85%	1.311%
5	7.692	485	486	490	rVB	29662	29675	1.26%	0.140%
6	7.783	493	494	497	rVB	27252	35341	1.50%	0.167%
7	7.852	498	500	503	rBV	61005	64940	2.77%	0.306%
8	7.897	503	504	507	rBV	23207	37105	1.58%	0.175%
9	8.137	521	525	528	rBV2	1081327	1660660	70.72%	7.827%
10	8.195	528	530	540	rVV	16107	34025	1.45%	0.160%
11	8.789	579	582	584	rVB	42970	42268	1.80%	0.199%
12	8.835	584	586	588	rBV	144058	133787	5.70%	0.631%
13	8.938	592	595	597	rBV	944147	1146737	48.83%	5.405%
14	9.395	631	635	638	rVB3	32095	68032	2.90%	0.321%
15	9.463	638	641	643	rBV	258468	327196	13.93%	1.542%
16	9.532	645	647	649	rVV	424199	433631	18.47%	2.044%
17	9.600	651	653	655	rVV2	31438	37484	1.60%	0.177%
18	9.646	655	657	661	rVV	134105	166802	7.10%	0.786%
19	9.738	662	665	667	rBV	134566	146849	6.25%	0.692%
20	9.875	673	677	678	rBV	768861	694699	29.58%	3.274%
21	9.909	678	680	682	rVV	325347	327309	13.94%	1.543%
22	10.081	692	695	697	rVV	114311	130373	5.55%	0.614%
23	10.115	697	698	702	rVB	68129	63146	2.69%	0.298%
24	10.183	702	704	706	rBV	36164	56335	2.40%	0.266%
25	10.218	706	707	710	rVB	62566	51105	2.18%	0.241%
26	10.275	710	712	715	rBV2	27423	54283	2.31%	0.256%
27	10.378	718	721	723	rBV4	17784	36001	1.53%	0.170%
28	10.423	723	725	727	rVV	607551	562194	23.94%	2.650%
29	10.503	727	732	735	rVV4	28501	101603	4.33%	0.479%
30	10.583	736	739	743	rVB3	35066	72027	3.07%	0.339%
31	10.663	743	746	748	rBV2	32882	58767	2.50%	0.277%
32	10.789	754	757	760	rVB	51437	51505	2.19%	0.243%
33	10.892	760	766	768	rBV2	18989	40711	1.73%	0.192%
34	10.972	768	773	774	rVV2	87754	144932	6.17%	0.683%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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	11.052	778	780	782	rVV	62507	55647	2.37%	0.262%
36	11.121	782	786	788	rVV2	20815	37951	1.62%	0.179%
37	11.258	795	798	799	rVV	183518	172887	7.36%	0.815%
38	11.292	799	801	803	rVV	116290	126760	5.40%	0.597%
39	11.383	805	809	812	rVV2	1284535	2348318	100.00%	11.068%
40	11.441	812	814	816	rVV	455347	493834	21.03%	2.327%
41	11.475	816	817	820	rVV	152588	176448	7.51%	0.832%
42	11.521	820	821	825	rVV	19803	35518	1.51%	0.167%
43	11.601	825	828	831	rVV	115687	170505	7.26%	0.804%
44	11.658	831	833	834	rVV	93046	87840	3.74%	0.414%
45	11.715	834	838	841	rVV3	74110	156377	6.66%	0.737%
46	11.772	841	843	845	rVV2	113197	176845	7.53%	0.833%
47	11.864	849	851	852	rVV	361794	392358	16.71%	1.849%
48	11.886	852	853	855	rVV	235461	305475	13.01%	1.440%
49	11.944	855	858	859	rVV2	78354	134402	5.72%	0.633%
50	11.978	859	861	865	rVV2	420709	714129	30.41%	3.366%
51	12.035	865	866	869	rVV2	51131	65085	2.77%	0.307%
52	12.126	869	874	875	rVV	81558	144204	6.14%	0.680%
53	12.161	875	877	881	rVV	160068	210991	8.98%	0.994%
54	12.218	881	882	883	rVV	35690	35622	1.52%	0.168%
55	12.252	883	885	889	rVV3	45380	113618	4.84%	0.535%
56	12.344	891	893	896	rVV2	39632	79947	3.40%	0.377%
57	12.412	896	899	900	rVV2	91508	121435	5.17%	0.572%
58	12.446	900	902	905	rVV2	87032	173013	7.37%	0.815%
59	12.504	905	907	909	rVV2	66074	113120	4.82%	0.533%
60	12.572	911	913	915	rVV	817045	804998	34.28%	3.794%
61	12.618	915	917	918	rVV2	50578	74896	3.19%	0.353%
62	12.664	920	921	925	rVV2	60003	109107	4.65%	0.514%
63	12.721	925	926	928	rVV	30856	44231	1.88%	0.208%
64	12.766	928	930	931	rVV	78024	88887	3.79%	0.419%
65	12.801	931	933	936	rVV	880965	991977	42.24%	4.675%
66	12.847	936	937	941	rVV2	30654	66436	2.83%	0.313%
67	12.927	941	944	949	rVV4	22718	63996	2.73%	0.302%
68	13.018	949	952	954	rVV2	66314	97753	4.16%	0.461%
69	13.075	954	957	958	rVV2	14805	27269	1.16%	0.129%
70	13.132	958	962	964	rVV	150913	235493	10.03%	1.110%
71	13.201	964	968	969	rVV	159351	201931	8.60%	0.952%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % 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	13.235	969	971	973	rVV	112695	122807	5.23%	0.579%
73	13.269	973	974	977	rVV2	22915	37150	1.58%	0.175%
74	13.327	977	979	980	rVV	68796	65055	2.77%	0.307%
75	13.361	980	982	984	rVV2	67609	91384	3.89%	0.431%
76	13.475	987	992	993	rBV4	43113	50266	2.14%	0.237%
77	13.532	993	997	1002	rVV2	71330	113602	4.84%	0.535%
78	13.635	1002	1006	1009	rVV2	76864	114110	4.86%	0.538%
79	13.749	1013	1016	1017	rVV2	40693	77832	3.31%	0.367%
80	13.795	1017	1020	1022	rVV2	63086	156794	6.68%	0.739%
81	13.841	1022	1024	1028	rVV3	27889	51980	2.21%	0.245%
82	13.898	1028	1029	1035	rVV3	26421	52814	2.25%	0.249%
83	14.001	1035	1038	1045	rVV2	837578	1455975	62.00%	6.862%
84	14.104	1045	1047	1049	rVV	43816	60947	2.60%	0.287%
85	14.149	1049	1051	1055	rVV3	76913	116232	4.95%	0.548%
86	14.241	1055	1059	1064	rVB2	31658	58100	2.47%	0.274%
87	14.390	1070	1072	1074	rBV	50450	51743	2.20%	0.244%
88	14.481	1077	1080	1081	rVV3	36668	46804	1.99%	0.221%
89	14.538	1081	1085	1087	rVV3	34665	74840	3.19%	0.353%
90	15.030	1125	1128	1132	rBV	116870	278309	11.85%	1.312%
91	15.132	1135	1137	1139	rVB	19312	25781	1.10%	0.122%
92	15.315	1151	1153	1156	rBV	81247	104081	4.43%	0.491%
93	15.372	1156	1158	1161	rVV	115545	161836	6.89%	0.763%
94	15.441	1161	1164	1171	rVB	417809	626175	26.66%	2.951%
95	15.635	1176	1181	1188	rVB5	7752	33699	1.44%	0.159%
96	15.864	1197	1201	1206	rBV5	8394	25462	1.08%	0.120%
97	15.967	1207	1210	1215	rVB3	13181	27305	1.16%	0.129%
98	16.835	1283	1286	1290	rBV2	39627	84779	3.61%	0.400%
99	17.258	1319	1323	1328	rBV	38284	82106	3.50%	0.387%
100	19.419	1509	1512	1520	rVB3	6430	25244	1.07%	0.119%

Sum of corrected areas: 21218080

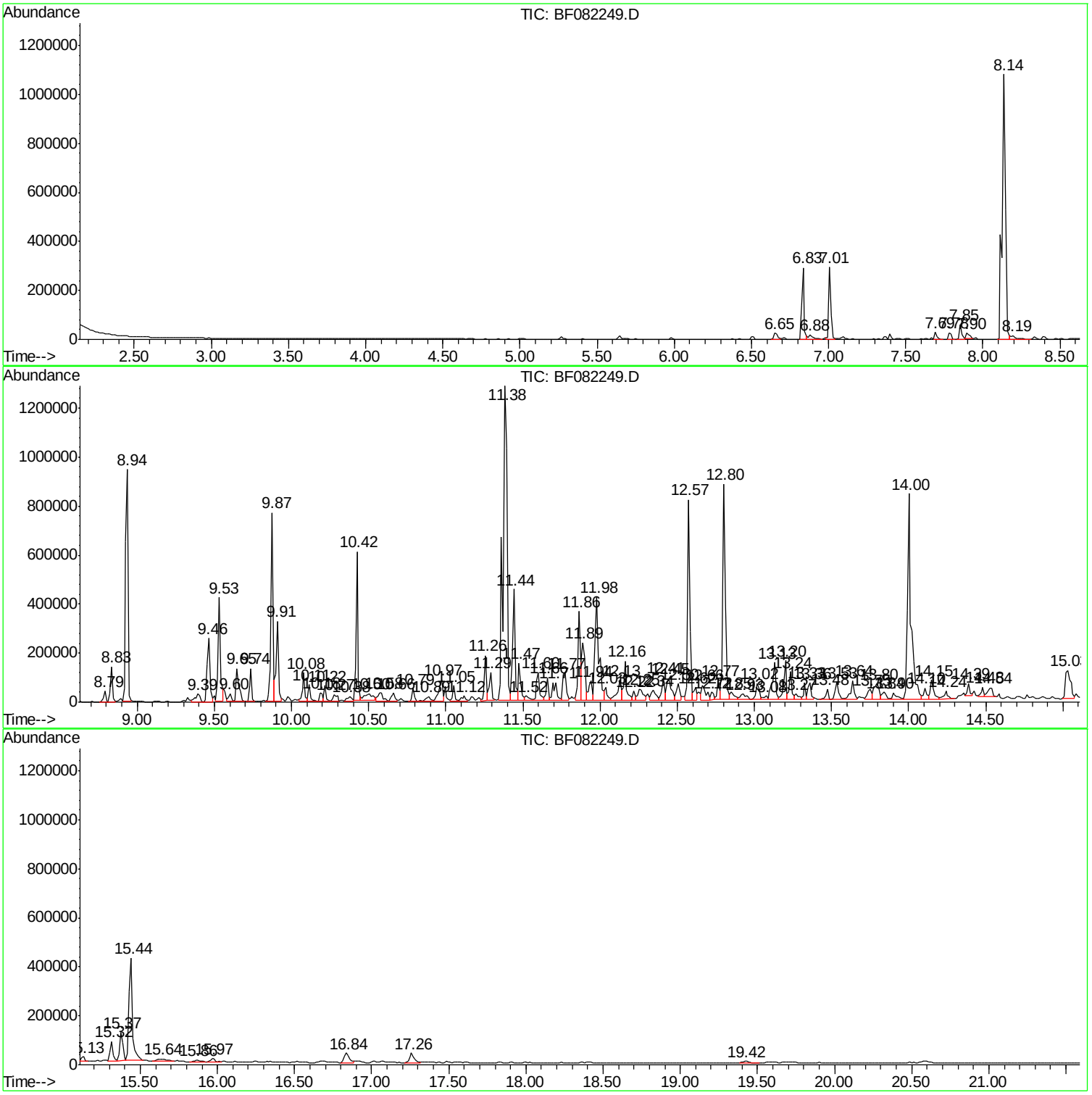
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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

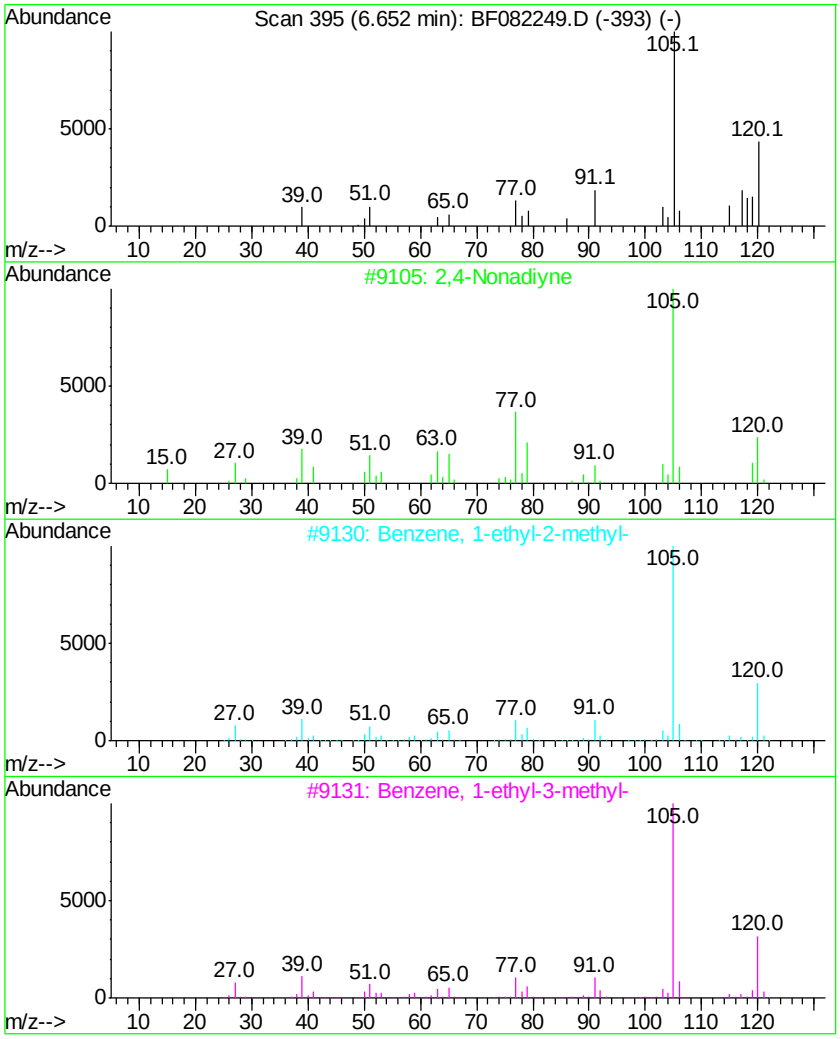
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

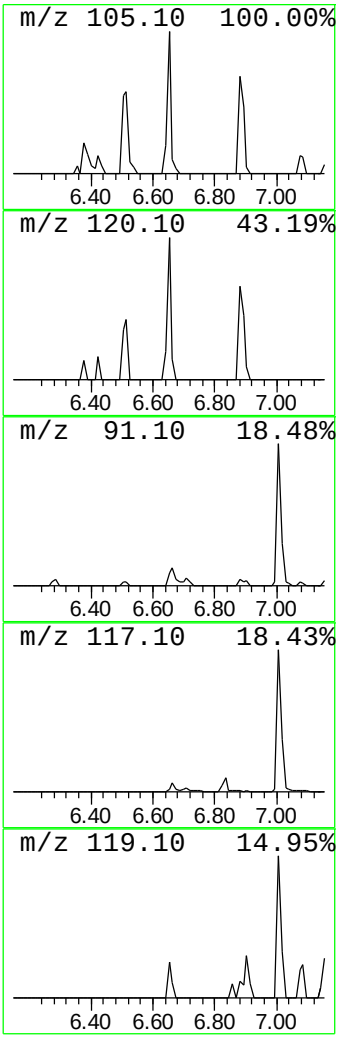
****

Peak Number 1 2,4-Nonadiyne Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	2.54 ng	41708	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Nonadiyne	120	C9H12	063621-15-8	62
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	58
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	58
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	50
5	Benzene, (1-methylethyl)-	120	C9H12	000098-82-8	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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

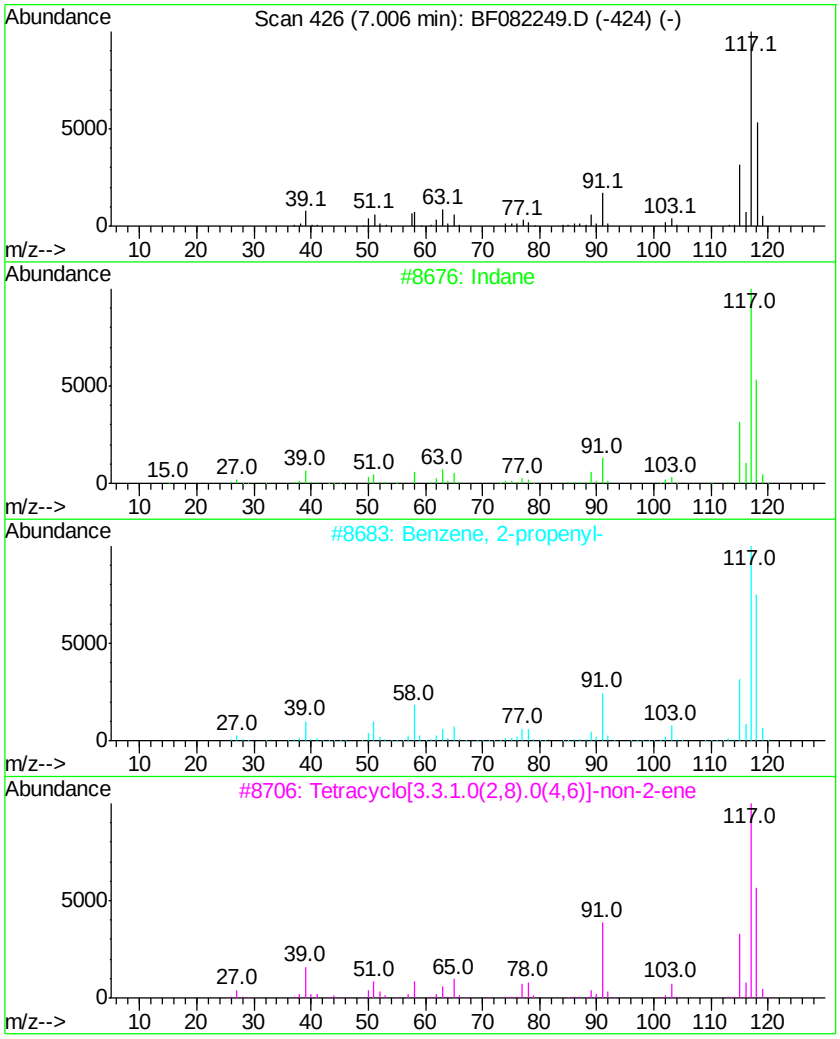
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

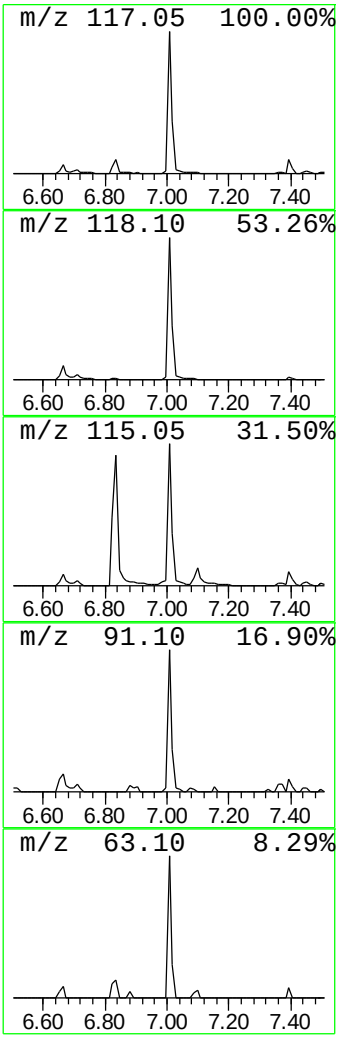
****

Peak Number 2 Indane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.01	16.94 ng	278160	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	93
2	Benzene, 2-propenyl-	118	C9H10	000300-57-2	83
3	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	80
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	80
5	Deltacyclene	118	C9H10	007785-10-6	74





Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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

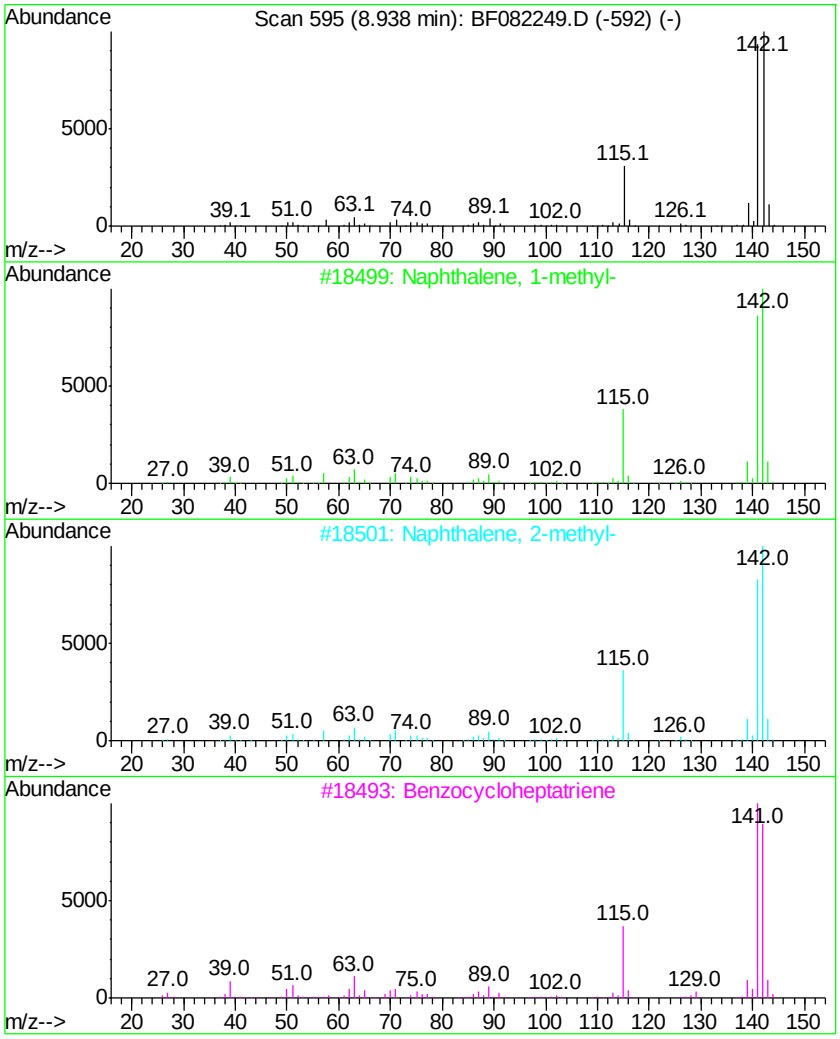
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

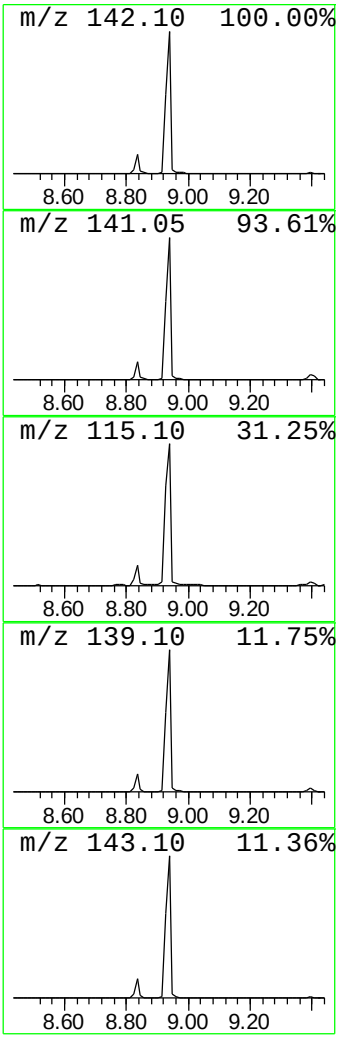
****

Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.94	13.81 ng	1146740	Naphthalene-d8	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
2	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	94
3	Benzocycloheptatriene	142	C11H10	000264-09-5	91
4	Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91
5	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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

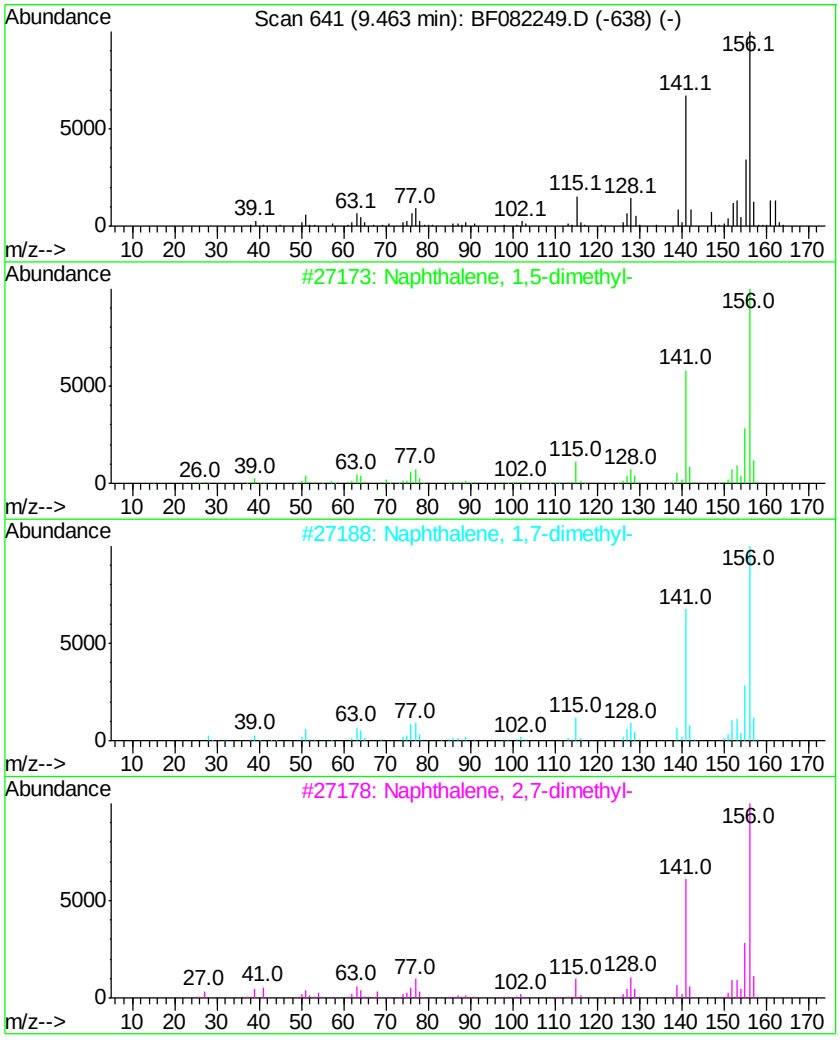
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

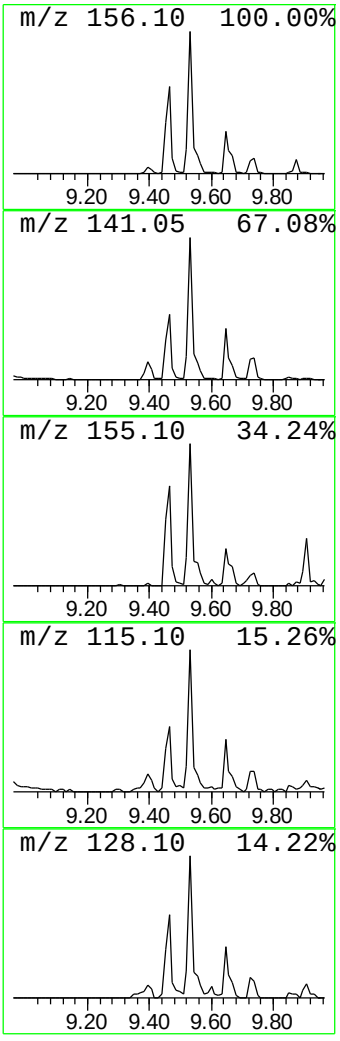
****

Peak Number 4 Naphthalene, 1,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.46	9.42 ng	327196	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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

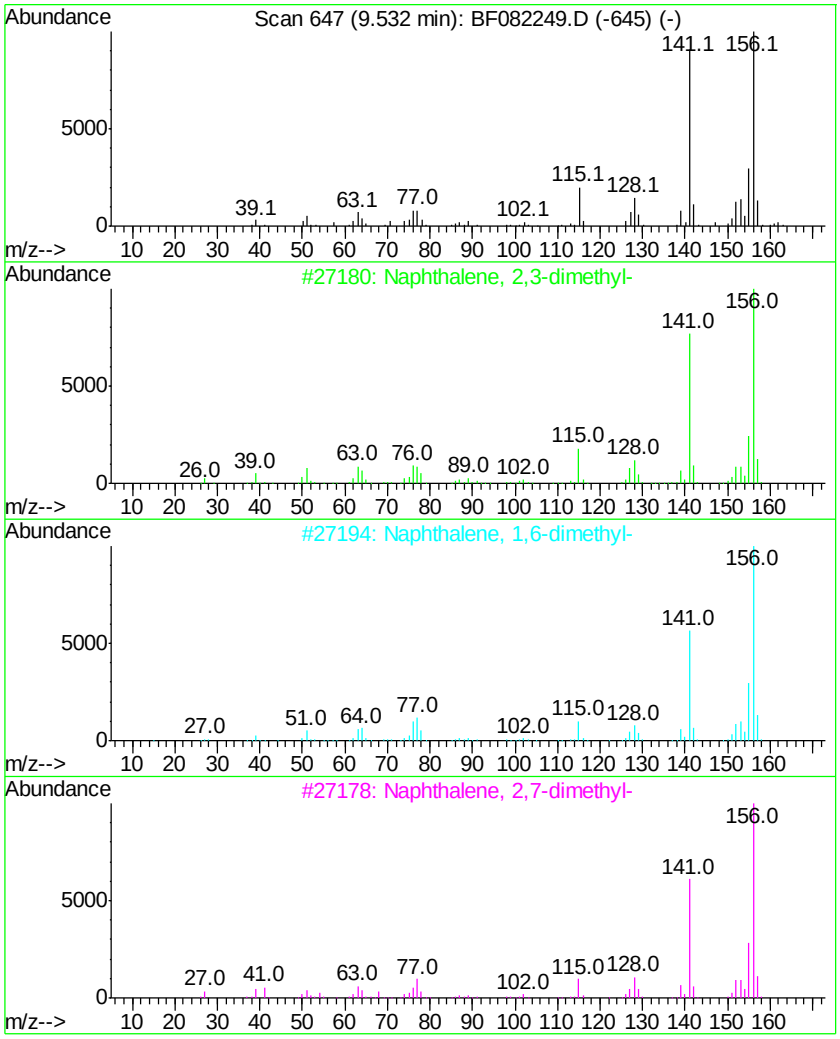
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

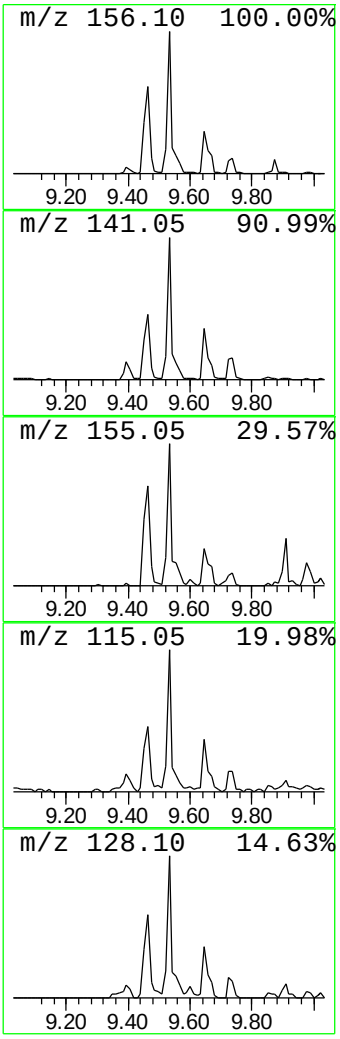
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.53	12.48 ng	433631	Acenaphthene-d10	9.87

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, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97





Data Path : Z:\HPCHEM1\BNA F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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

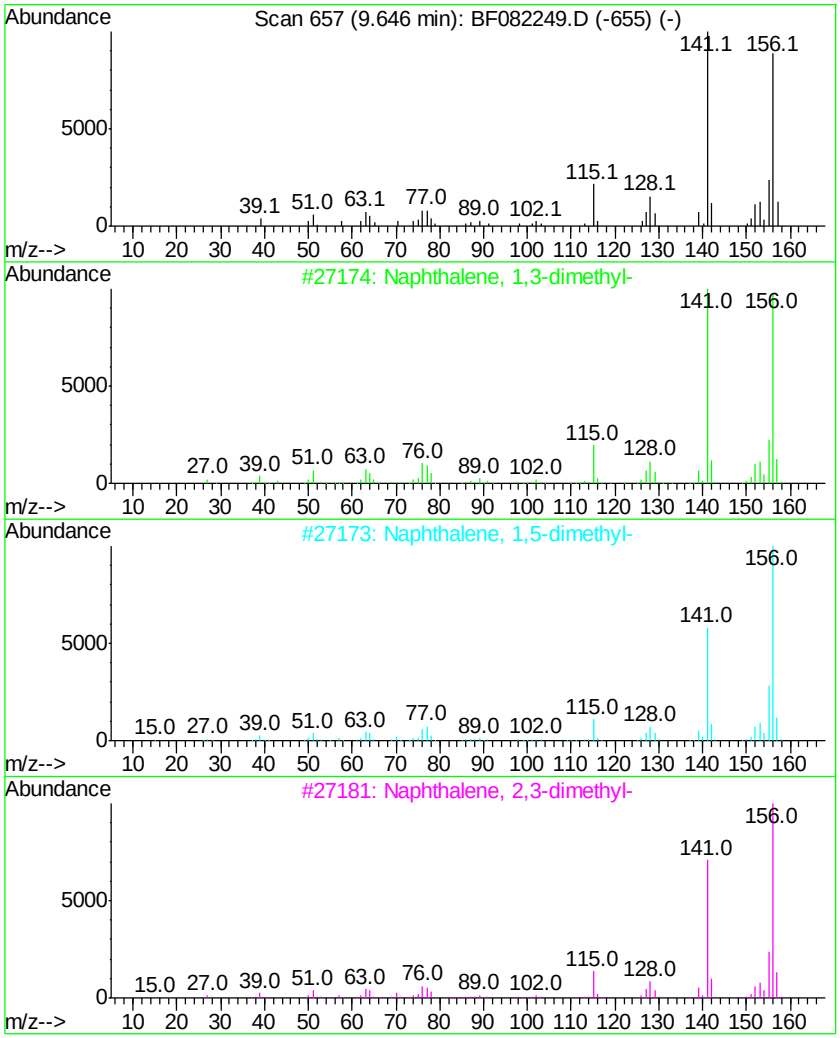
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

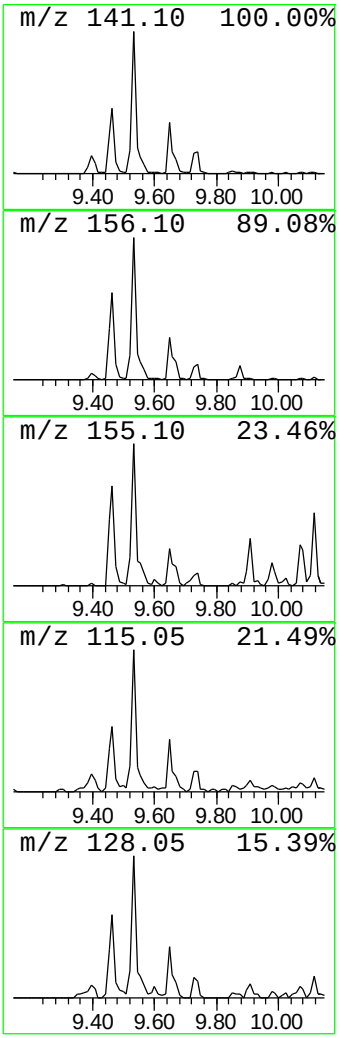
****

Peak Number 6 Naphthalene, 1,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	4.80 ng	166802	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	98
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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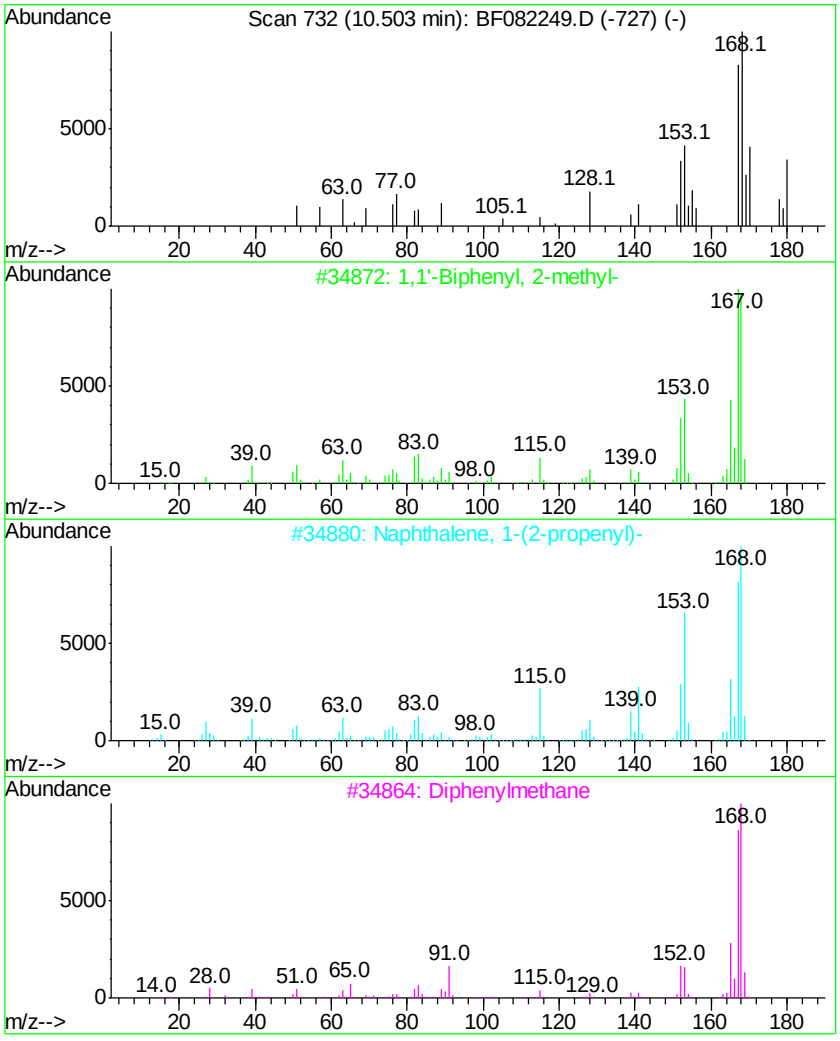
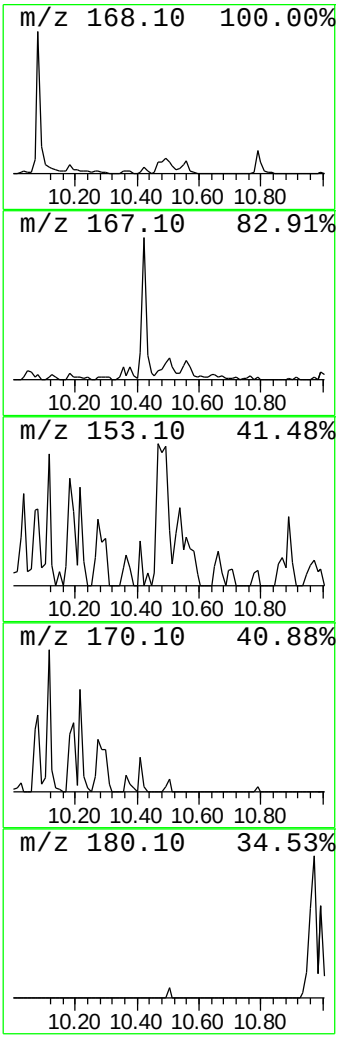
Peak Number 7 1,1'-Biphenyl, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.50	2.93 ng	101603	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	58
2	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	50
3	Diphenylmethane	168	C13H12	000101-81-5	49
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	49
5	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	47





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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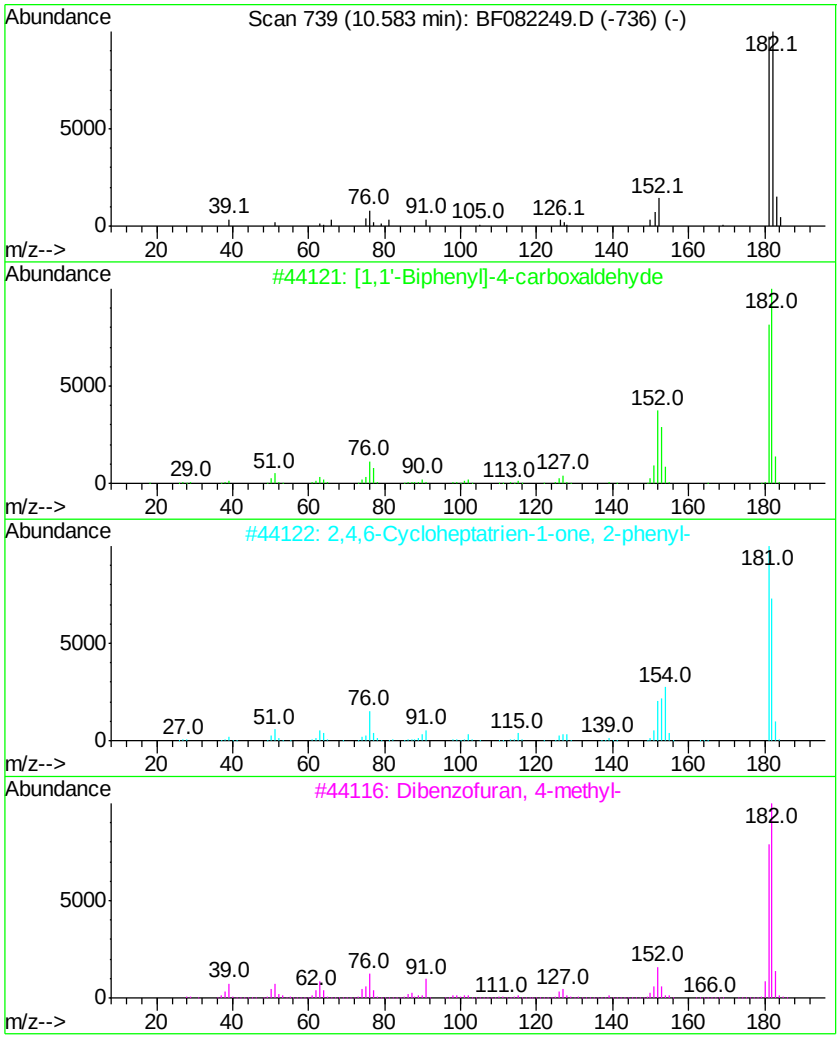
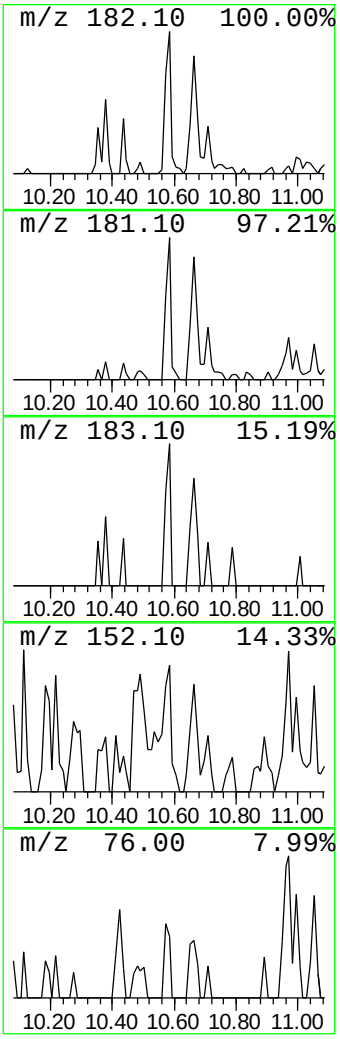
Peak Number 8 [1,1'-Biphenyl]-4-carboxald... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.58	2.07 ng	72027	Acenaphthene-d10	9.87

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	86
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
5	Pyrido[2,3-d]indole, 6-methyl-	182	C12H10N2	108349-67-3	72





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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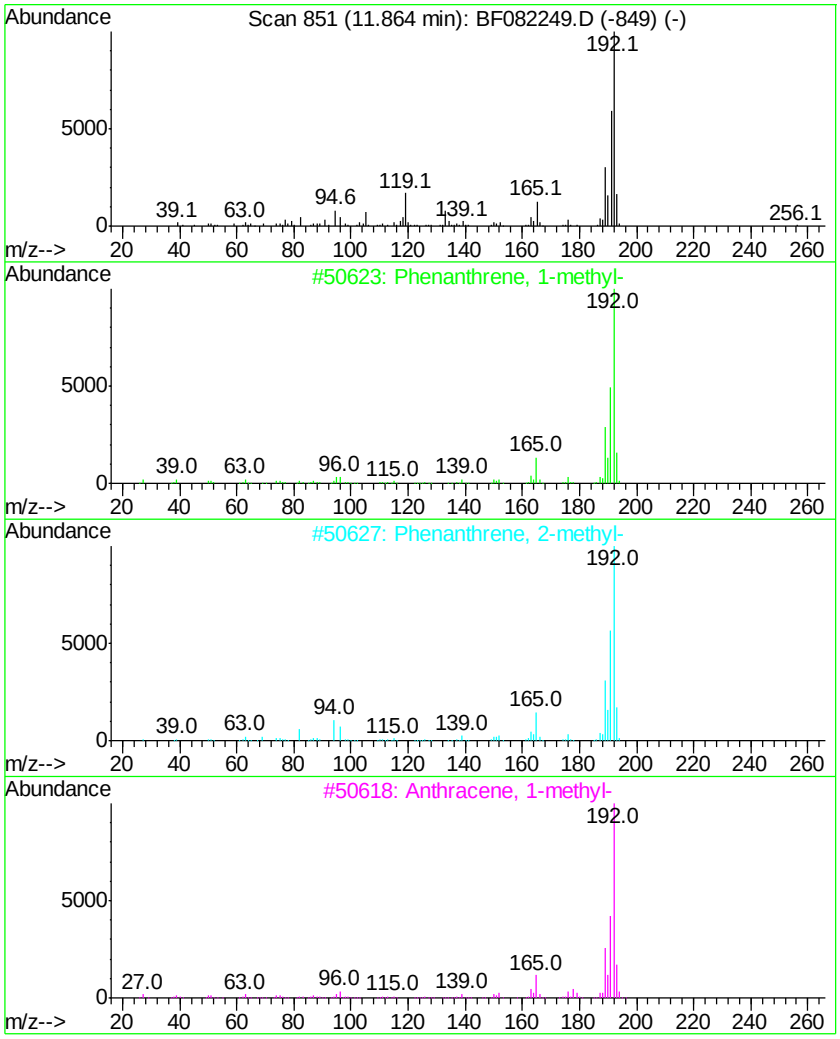
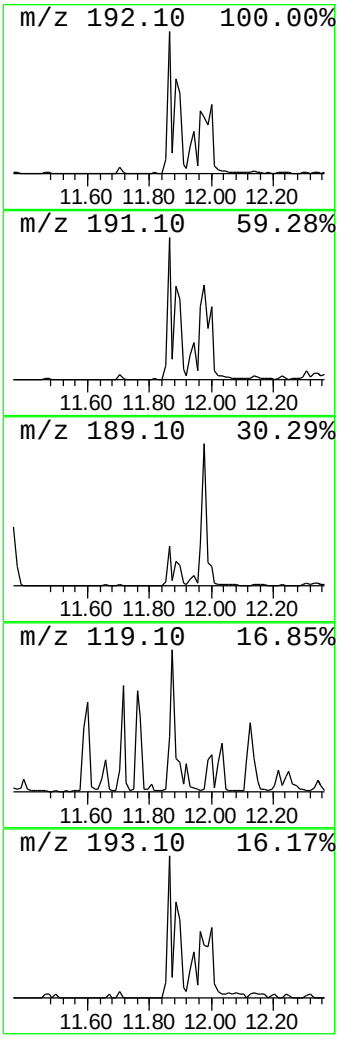
Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	3.34 ng	392358	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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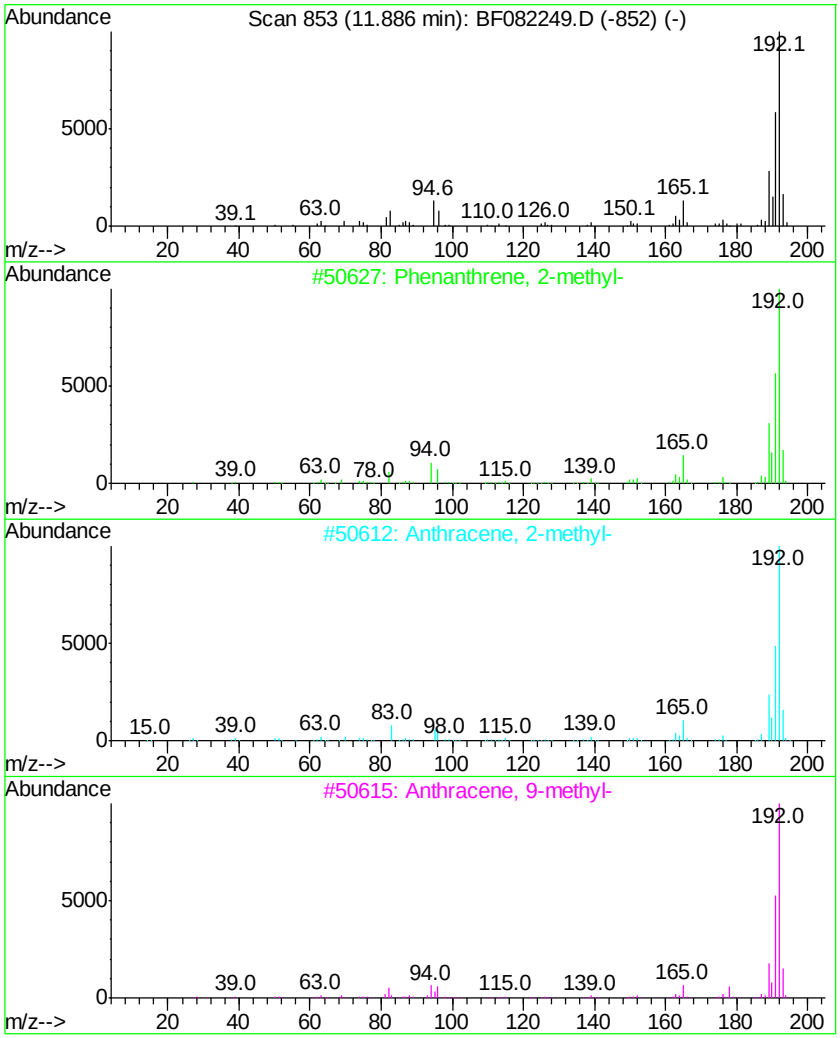
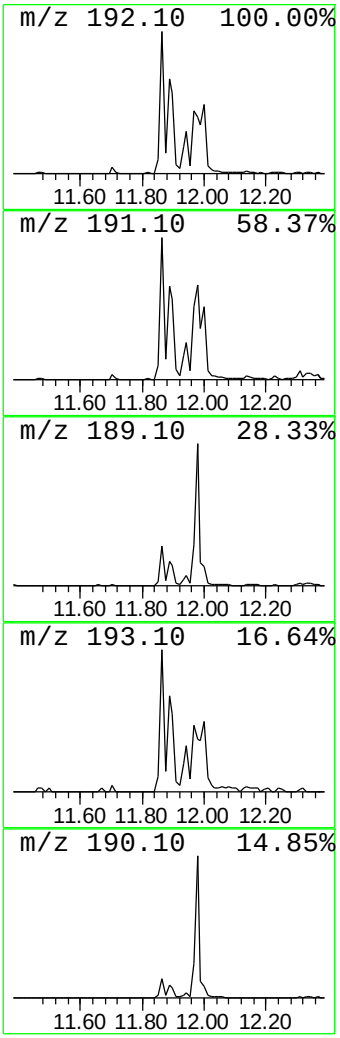
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	2.60 ng	305475	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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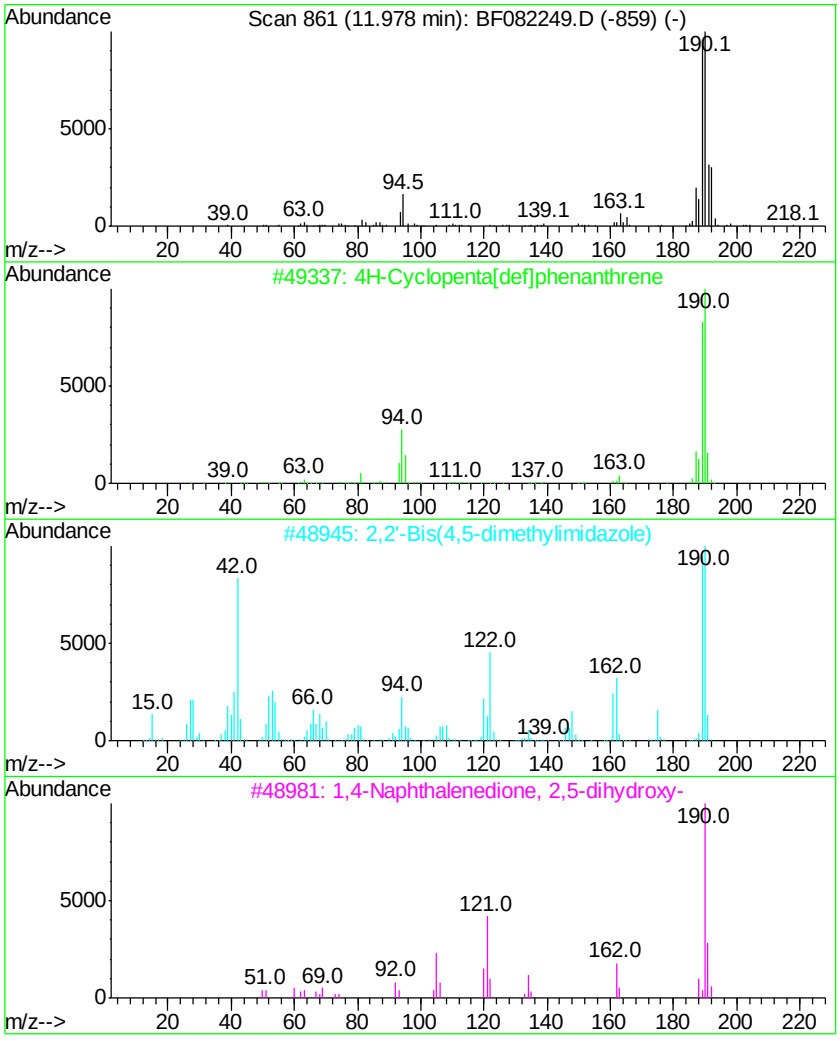
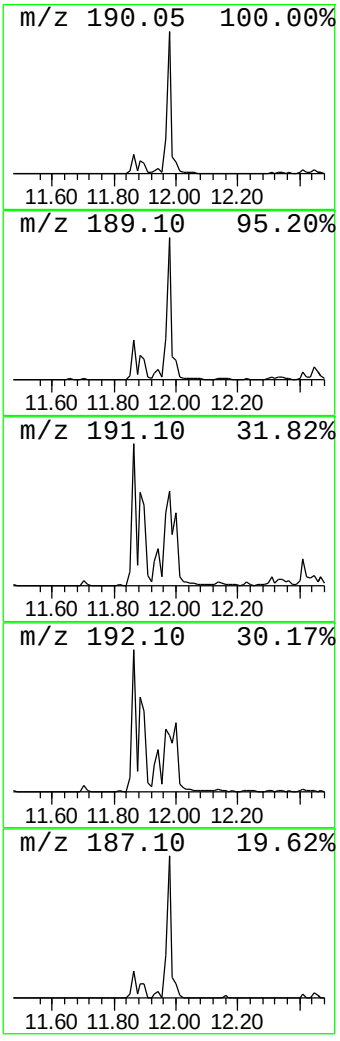
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	6.08 ng	714129	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42
3	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25
4	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18
5	Methyl diselenide	190	C2H6Se2	007101-31-7	12





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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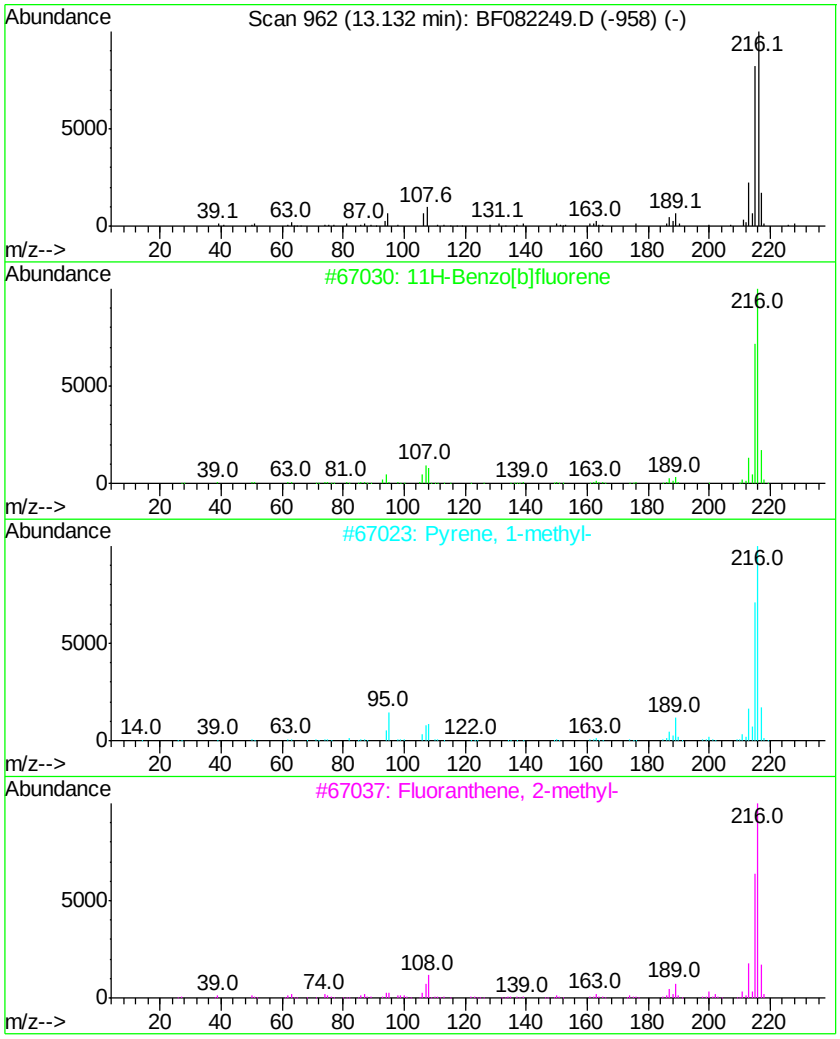
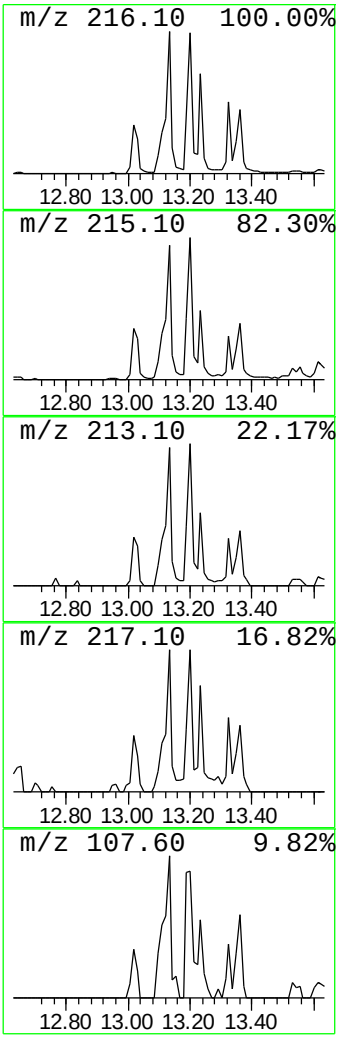
Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.13	3.23 ng	235493	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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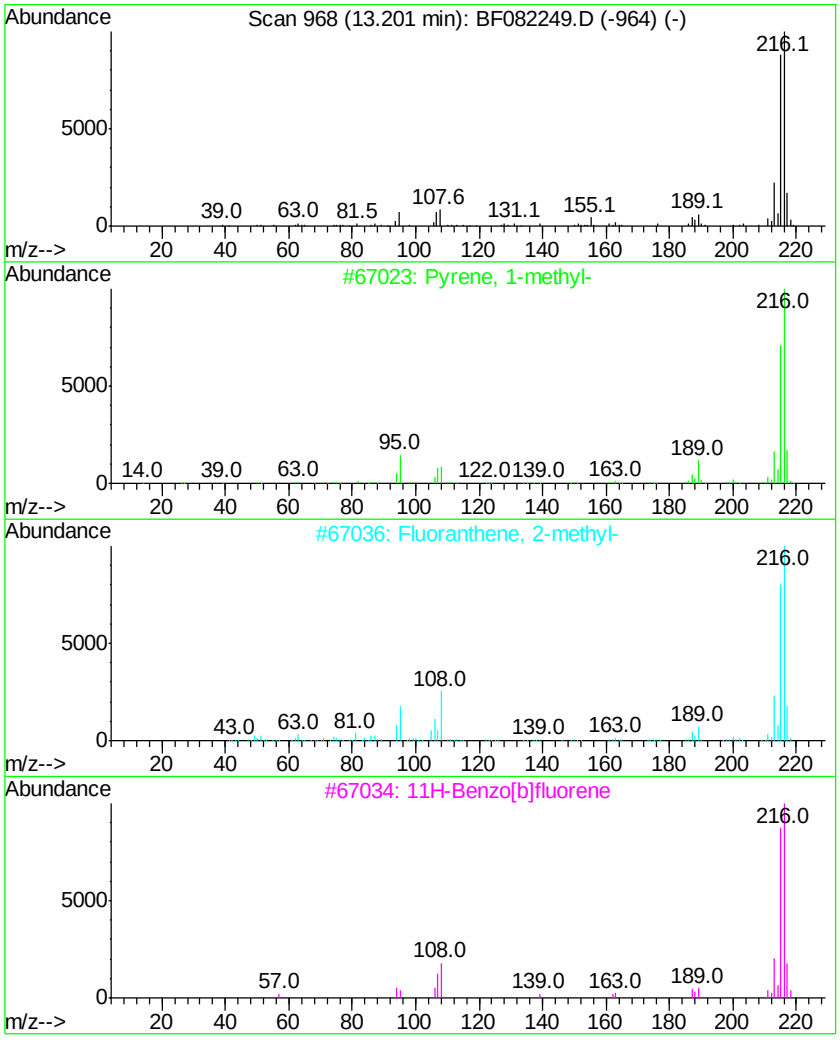
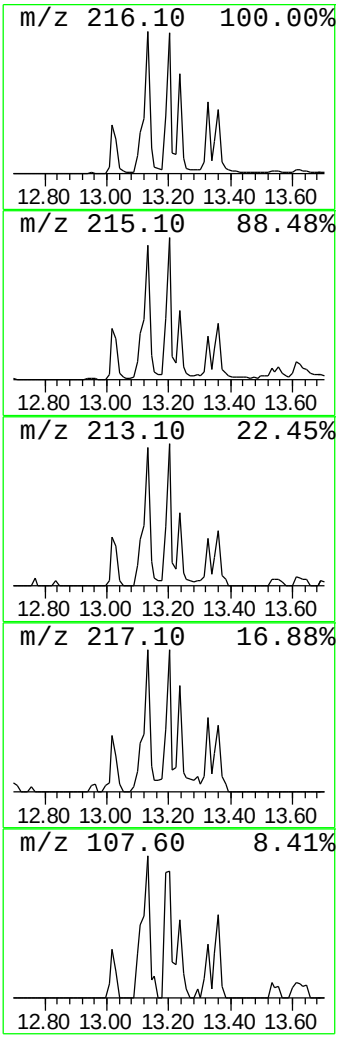
Peak Number 13 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	2.77 ng	201931	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80





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Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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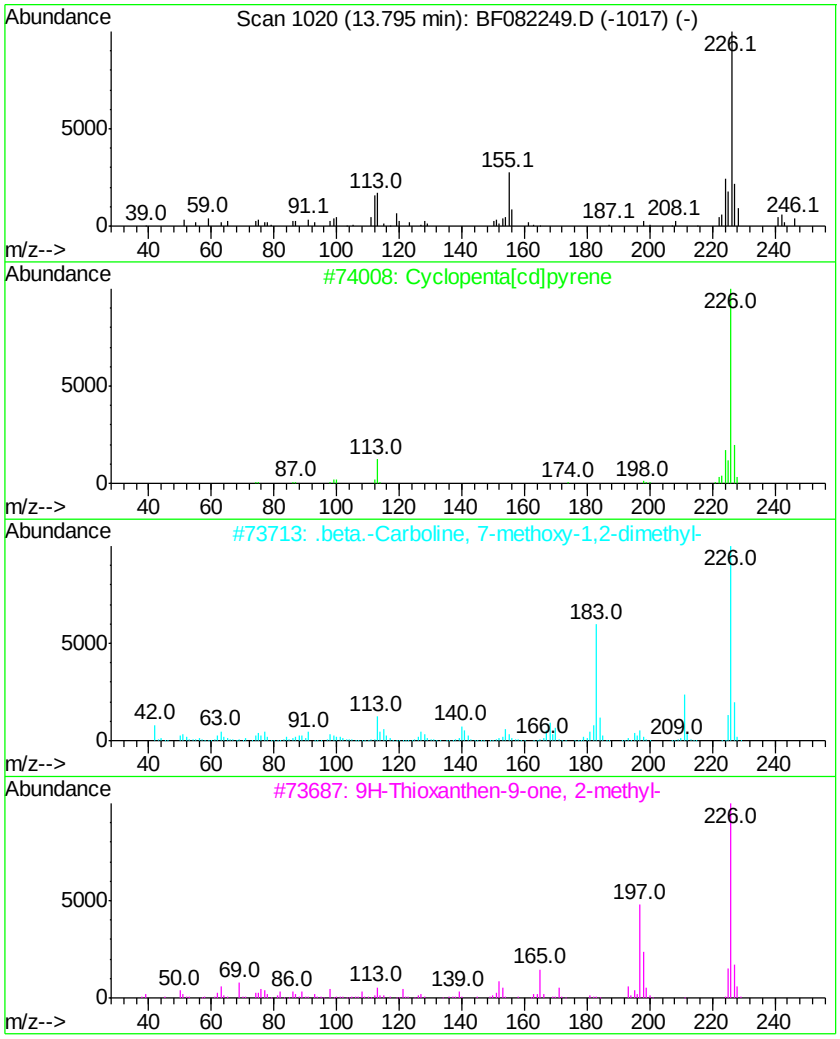
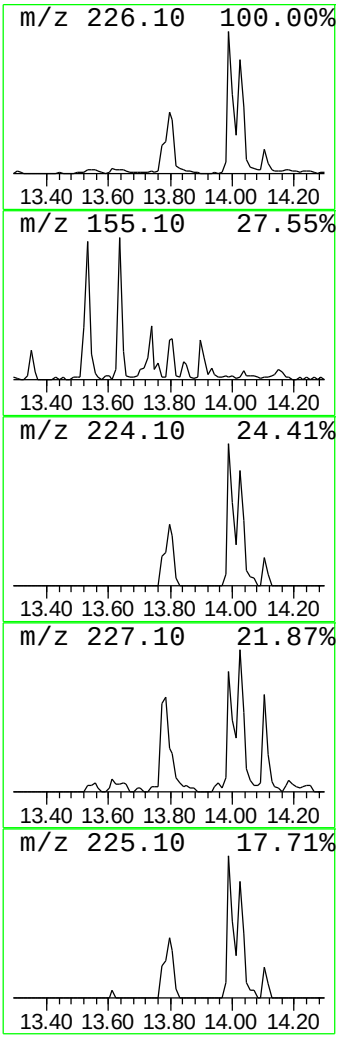
Peak Number 14 Cyclopenta[cd]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.80	2.15 ng	156794	Chrysene-d12	14.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	58
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	52
3	9H-Thioxanthen-9-one, 2-methyl-	226	C14H10OS	015774-82-0	50
4	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	49
5	6-Methyl-4-phenyl-3-cyanopyridin...	226	C13H10N2S	078564-23-5	40





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Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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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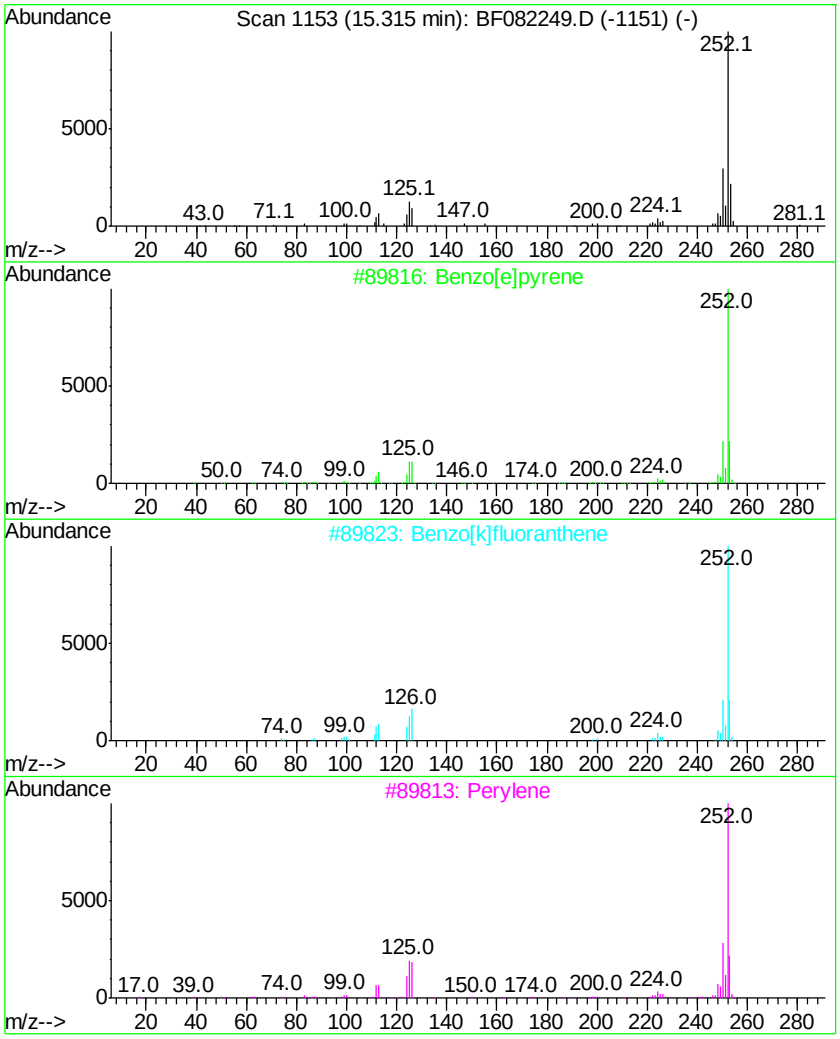
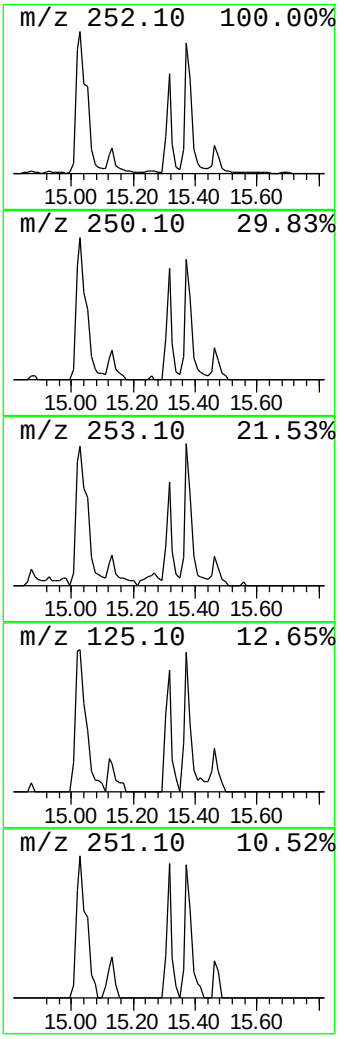
Peak Number 15 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	3.32 ng	104081	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3	Perylene	252	C20H12	000198-55-0	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101315\
Data File : BF082249.D
Acq On : 13 Oct 2015 8:01
Operator : UM/IZ
Sample : G3974-01DL2 200X
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : MGP222BR-12-14DL2

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
2,4-Nonadiyne	6.65	2.5	ng	41708	1	6.83	328337	20.0
Indane	7.01	16.9	ng	278160	1	6.83	328337	20.0
Naphthalene, 1-me...	8.94	13.8	ng	1146740	2	8.11	1660660	20.0
Naphthalene, 1,5-...	9.46	9.4	ng	327196	3	9.87	694699	20.0
Naphthalene, 2,3-...	9.53	12.5	ng	433631	3	9.87	694699	20.0
Naphthalene, 1,3-...	9.65	4.8	ng	166802	3	9.87	694699	20.0
1,1'-Biphenyl, 2-...	10.50	2.9	ng	101603	3	9.87	694699	20.0
[1,1'-Biphenyl]-4...	10.58	2.1	ng	72027	3	9.87	694699	20.0
Phenanthrene, 1-m...	11.86	3.3	ng	392358	4	11.36	2348320	20.0
Phenanthrene, 2-m...	11.89	2.6	ng	305475	4	11.36	2348320	20.0
4H-Cyclopenta[def...	11.98	6.1	ng	714129	4	11.36	2348320	20.0
11H-Benzo[b]fluorene	13.13	3.2	ng	235493	5	14.00	1455980	20.0
Pyrene, 1-methyl-	13.20	2.8	ng	201931	5	14.00	1455980	20.0
Cyclopenta[cd]pyrene	13.80	2.2	ng	156794	5	14.00	1455980	20.0
Benzo[e]pyrene	15.32	3.3	ng	104081	6	15.44	626175	20.0