LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

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-BF072016.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	1.724	11	12	48	rVB	1196521	2275646	100.00%	11.968%
2	4.730	273	275	283	rVB	36793	60660	2.67%	0.319%
3	5.187	313	315	325	rBV	797563	1148728	50.48%	6.042%
4	6.262	406	409	416	rBV	865285	1233175	54.19%	6.486%
5	6.365	416	418	432	rVB	925758	1256681	55.22%	6.609%
6	6.605	437	439	450	rBV	169522	279865	12.30%	1.472%
7	6.753	450	452	460	rBV	995648	967776	42.53%	5.090%
8	7.176	486	489	498	rBV	463511	761901	33.48%	4.007%
9	7.885	549	551	557	rBV	376749	415591	18.26%	2.186%
10	8.959	643	645	648	rBV	1083308	1189733	52.28%	6.257%
11	9.359	678	680	683	rVV	272533	251893	11.07%	1.325%
12	9.485	689	691	694	rBV	43824	49800	2.19%	0.262%
13	9.622	701	703	705	rBV	262691	342571	15.05%	1.802%
14	9.656	705	706	709	rVB	66275	59586	2.62%	0.313%
15	9.828	720	721	723	rBV	27612	34574	1.52%	0.182%
16	10.171	749	751	754	rVB	67378	63951	2.81%	0.336%
17	10.411	770	772	775	rBV	522010	533429	23.44%	2.805%
18	10.548	782	784	787	rVB	30140	39353	1.73%	0.207%
19	10.719	796	799	800	rBV2	17603	24808	1.09%	0.130%
20	10.868	808	812	815	rBV2	14093	27264	1.20%	0.143%
21	10.994	821	823	828	rVB	44443	57226	2.51%	0.301%
22	11.131	830	835	837	rBV2	335238	773554	33.99%	4.068%
23	11.176	837	839	841	rVV	160863	157102	6.90%	0.826%
24	11.336	851	853	857	rVB	46056	55197	2.43%	0.290%
25	11.416	858	860	866	rVB4	20337	35731	1.57%	0.188%
26	11.599	874	876	877	rBV	73869	71459	3.14%	0.376%
27	11.634	877	879	880	rVV	71799	93923	4.13%	0.494%
28	11.679	880	883	884	rVV2	35594	59959	2.63%	0.315%
29	11.714	884	886	891	rVB	96359	196388	8.63%	1.033%
30	11.897	898	902	903	rBV	47900	53009	2.33%	0.279%
31	12.045	912	915	916	rBV2	17460	22781	1.00%	0.120%
32	12.148	922	924	925	rBV	64943	71671	3.15%	0.377%
33	12.182	925	927	930	rVB2	34826	59817	2.63%	0.315%
34	12.228	930	931	935	rVB	33940	44659	1.96%	0.235%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

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-BF072016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.308	935	938	940	rBV	600438	648033	28.48%	3.408%
36	12.445	948	950	955	rBV5	41929	105354	4.63%	0.554%
37	12.525	955	957	960	rBV	469908	641228	28.18%	3.372%
38	12.651	966	968	969	rBV	42879	44162	1.94%	0.232%
39	12.685	969	971	973	rVV	994539	967726	42.53%	5.090%
40	12.754	973	977	979	rVV2	46209	61824	2.72%	0.325%
41	12.857	982	986	988	rVB2	111252	176811	7.77%	0.930%
42	12.925	988	992	993	rBV	98624	117924	5.18%	0.620%
43	12.960	993	995	999	rVB	85251	107402	4.72%	0.565%
44	13.051	1001	1003	1004	rBV	43927	37032	1.63%	0.195%
45	13.085	1004	1006	1008	rBV	32345	35569	1.56%	0.187%
46	13.280	1017	1023	1027	rBV6	36134	147719	6.49%	0.777%
47	13.360	1027	1030	1033	rBV2	32513	82270	3.62%	0.433%
48	13.474	1037	1040	1041	rBV2	49071	78722	3.46%	0.414%
49	13.577	1047	1049	1050	rVB	27921	30463	1.34%	0.160%
50	13.611	1050	1052	1058	rBV5	30696	79654	3.50%	0.419%
51	13.725	1058	1062	1068	rBV2	408536	1025784	45.08%	5.395%
52	13.828	1068	1071	1072	rBV2	37852	56742	2.49%	0.298%
53	13.862	1072	1074	1076	rBV2	21919	45084	1.98%	0.237%
54	14.068	1090	1092	1093	rBV2	29813	33498	1.47%	0.176%
55	14.114	1093	1096	1097	rVB	44987	76626	3.37%	0.403%
56	14.708	1146	1148	1153	rBV	216529	473562	20.81%	2.491%
57	14.800	1155	1156	1158	rVB	70339	66928	2.94%	0.352%
58	14.960	1168	1170	1173	rVB	106364	178335	7.84%	0.938%
59	15.017	1173	1175	1178	rVV	210558	266646	11.72%	1.402%
60	15.074	1178	1180	1186	rVB2	179024	341999	15.03%	1.799%
61	16.297	1285	1287	1291	rVB	72938	144647	6.36%	0.761%
62	16.663	1316	1319	1328	rVB	63214	172710	7.59%	0.908%

Sum of corrected areas: 19013915

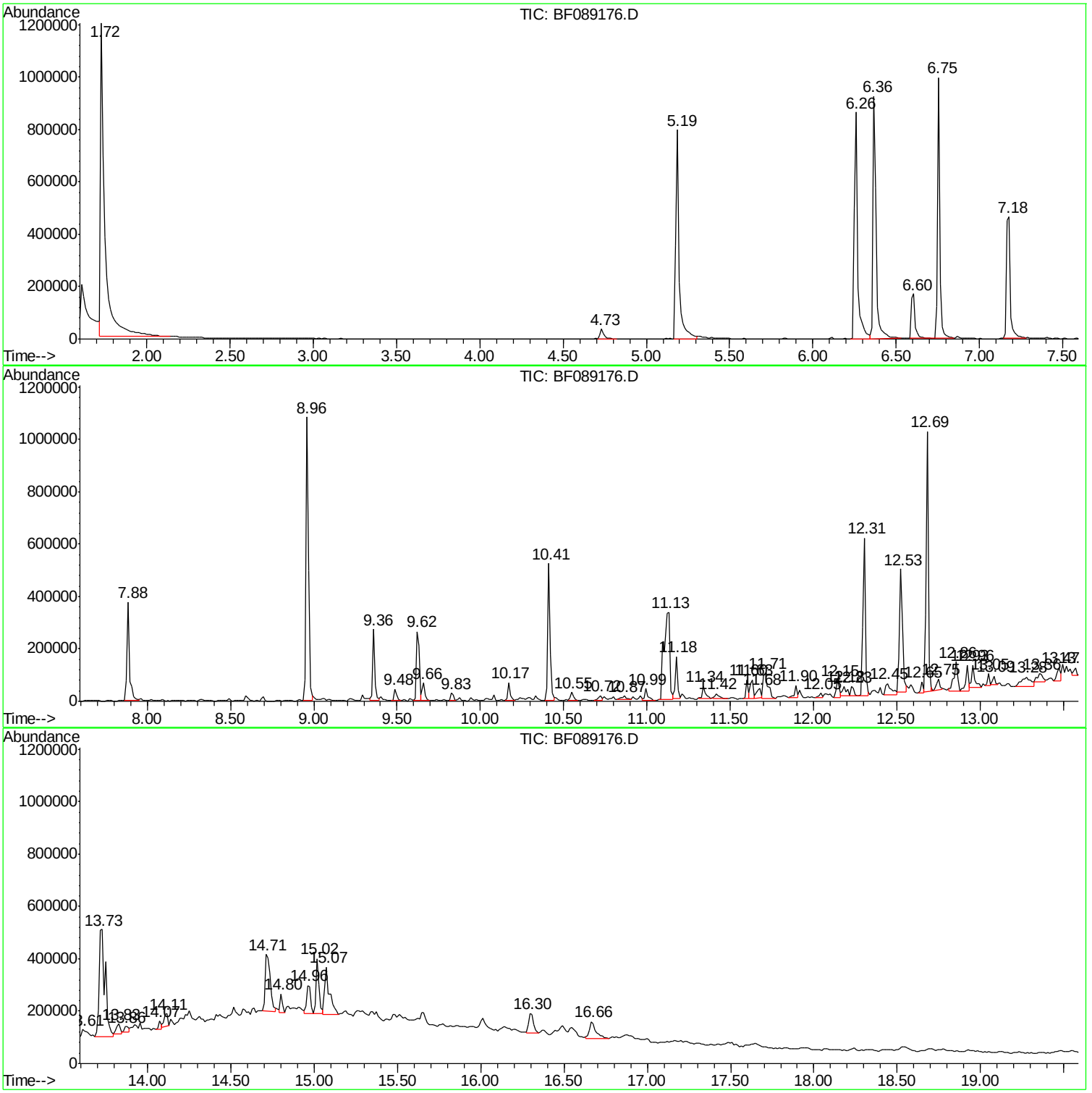
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

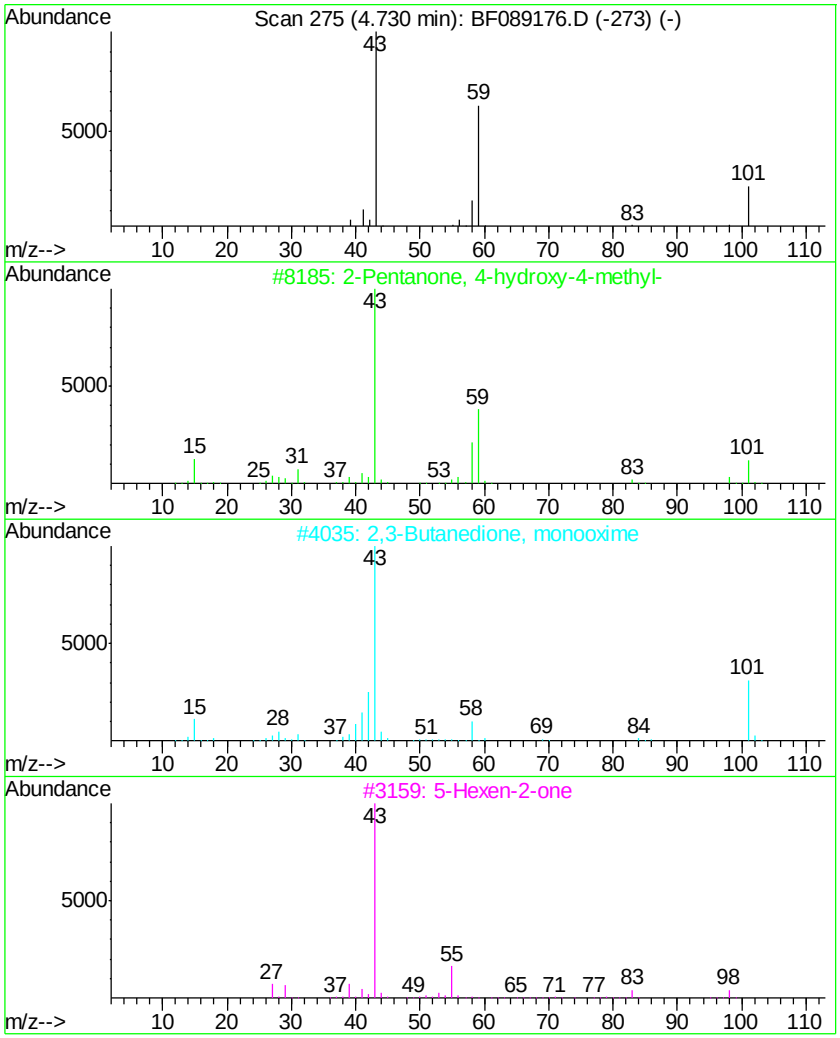
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

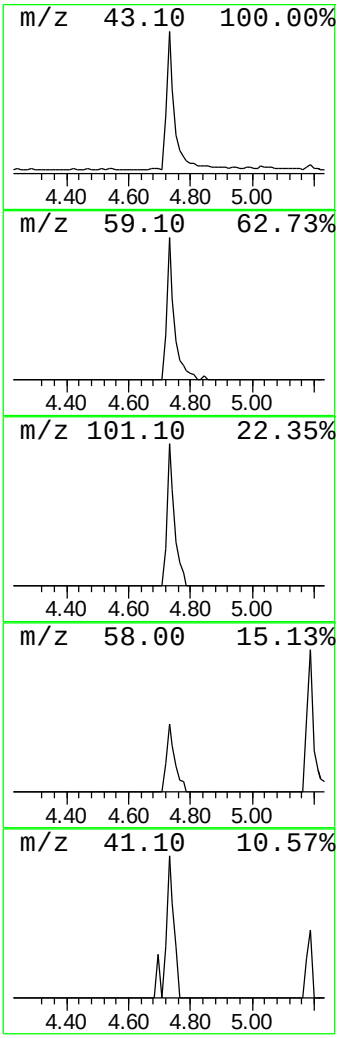
****

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.73	4.33 ng	60660	1,4-Dichlorobenzene-d4	6.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
3	5-Hexen-2-one	98	C6H10O	000109-49-9	9
4	Silane, trimethyl-	74	C3H10Si	000993-07-7	9
5	2-Pentanol, 2,4-dimethyl-	116	C7H16O	000625-06-9	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

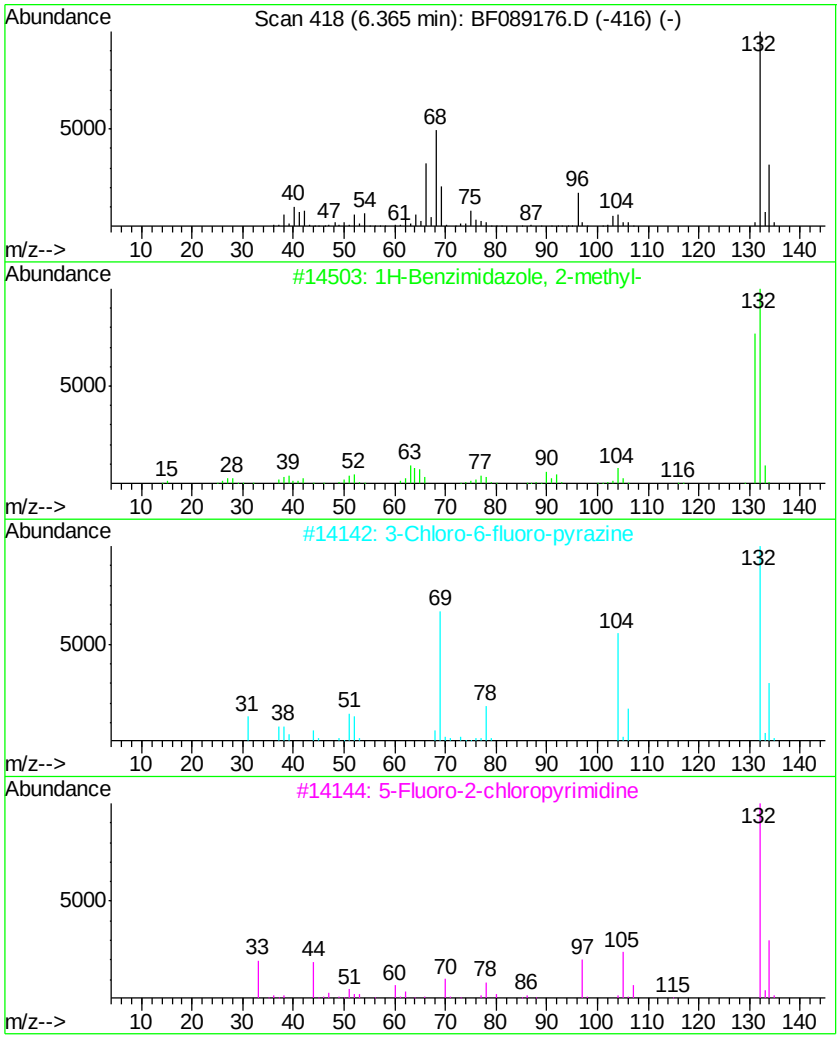
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

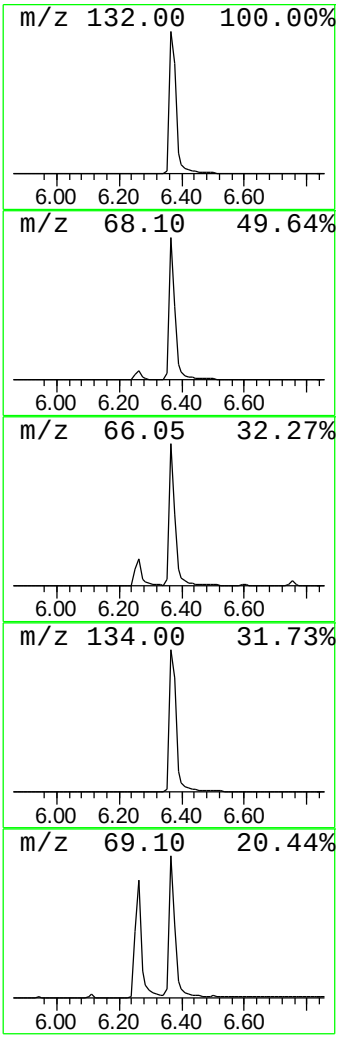
****

Peak Number 3 unknown6.36 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.36	89.81 ng	1256680	1,4-Dichlorobenzene-d4	6.60

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
4	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	10
5	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	10





Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

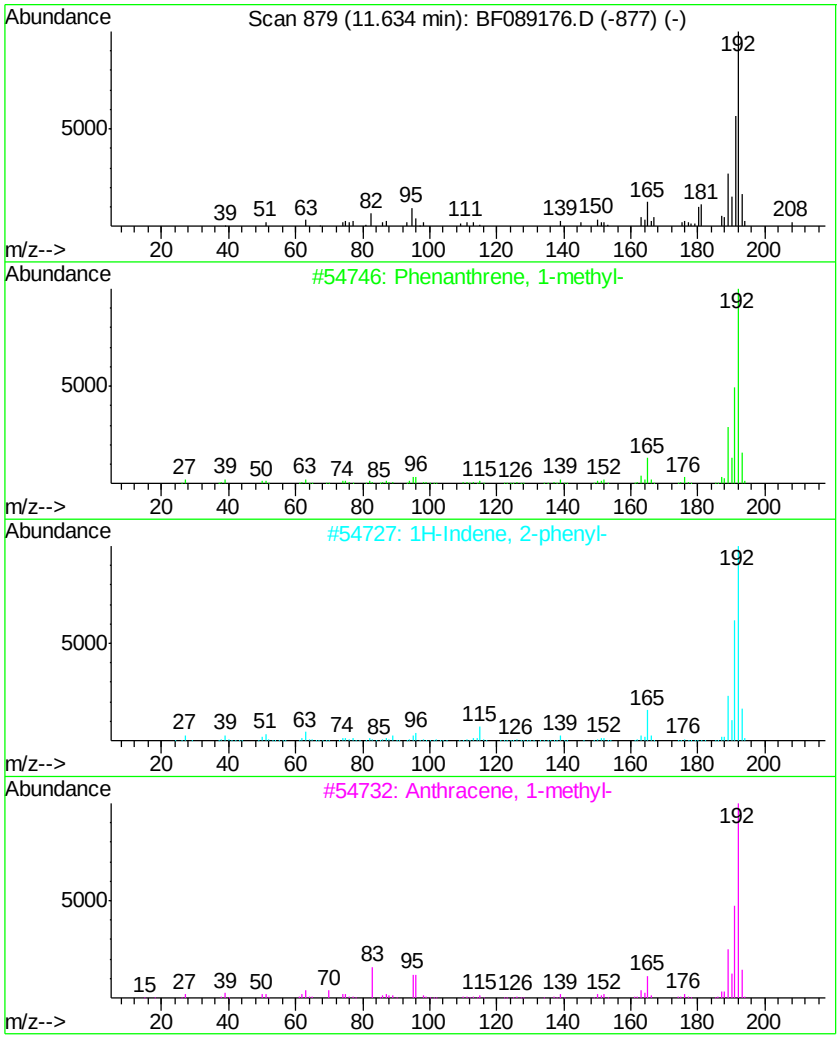
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

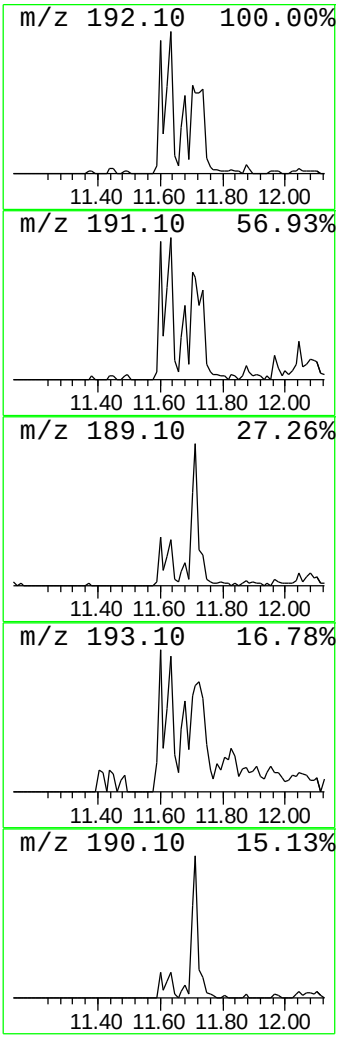
****

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.63	2.43 ng	93923	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

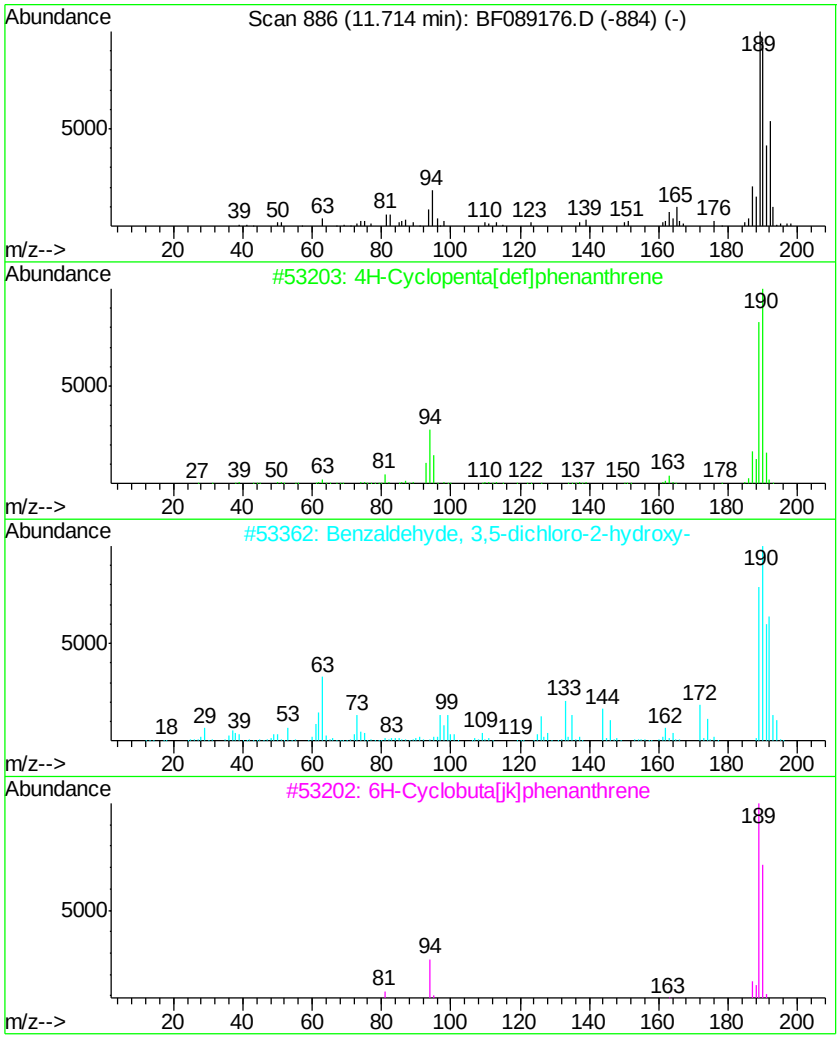
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

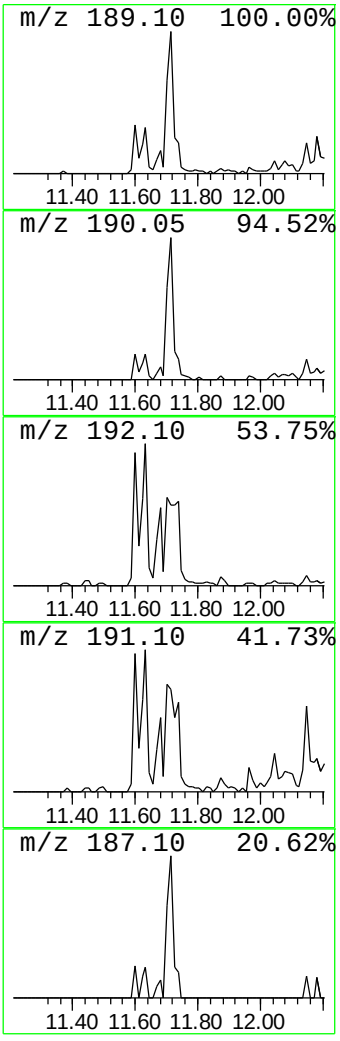
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.71	5.08 ng	196388	Phenanthrene-d10	11.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	52
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	43
5	Methyl diselenide	190	C2H6Se2	007101-31-7	41





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Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

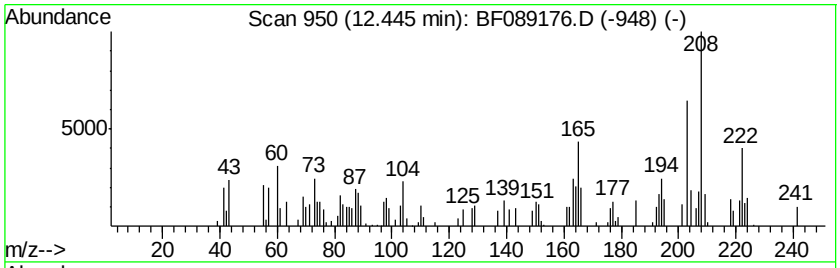
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

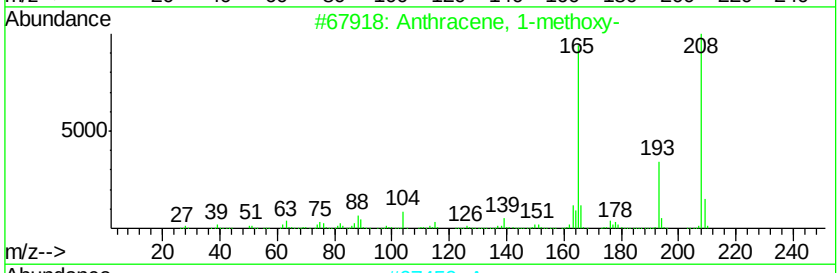
****

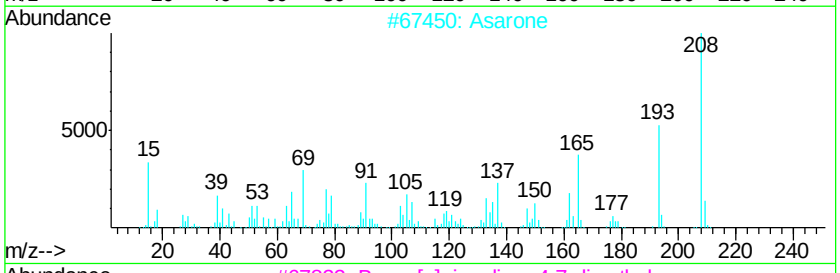
Peak Number 7 unknown12.45 Concentration Rank 13

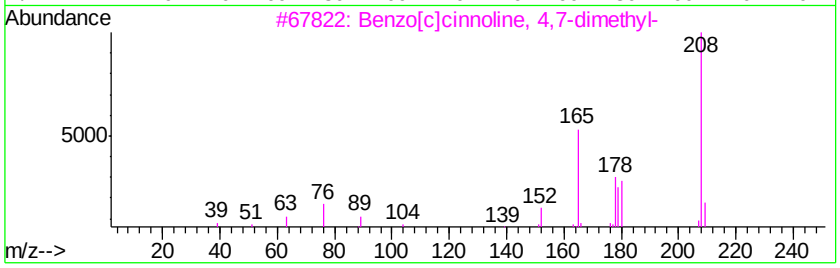
R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	2.05 ng	105354	Chrysene-d12	13.73

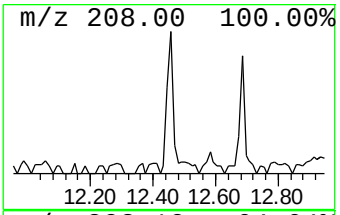
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methoxy-	208	C15H12O	054458-84-3	42
2	Asarone	208	C12H16O3	002883-98-9	38
3	Benzo[c]cinnoline, 4,7-dimethyl-	208	C14H12N2	020684-54-2	35
4	Benzene, 1,2,4-trimethoxy-5-(1-p...	208	C12H16O3	000494-40-6	30
5	.beta.-Asarone	208	C12H16O3	005273-86-9	27

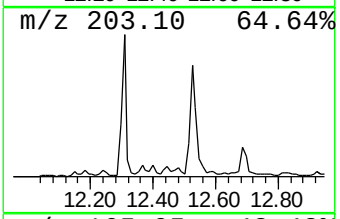


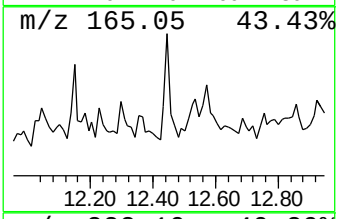


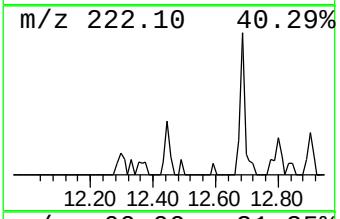


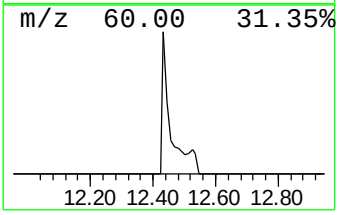












Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

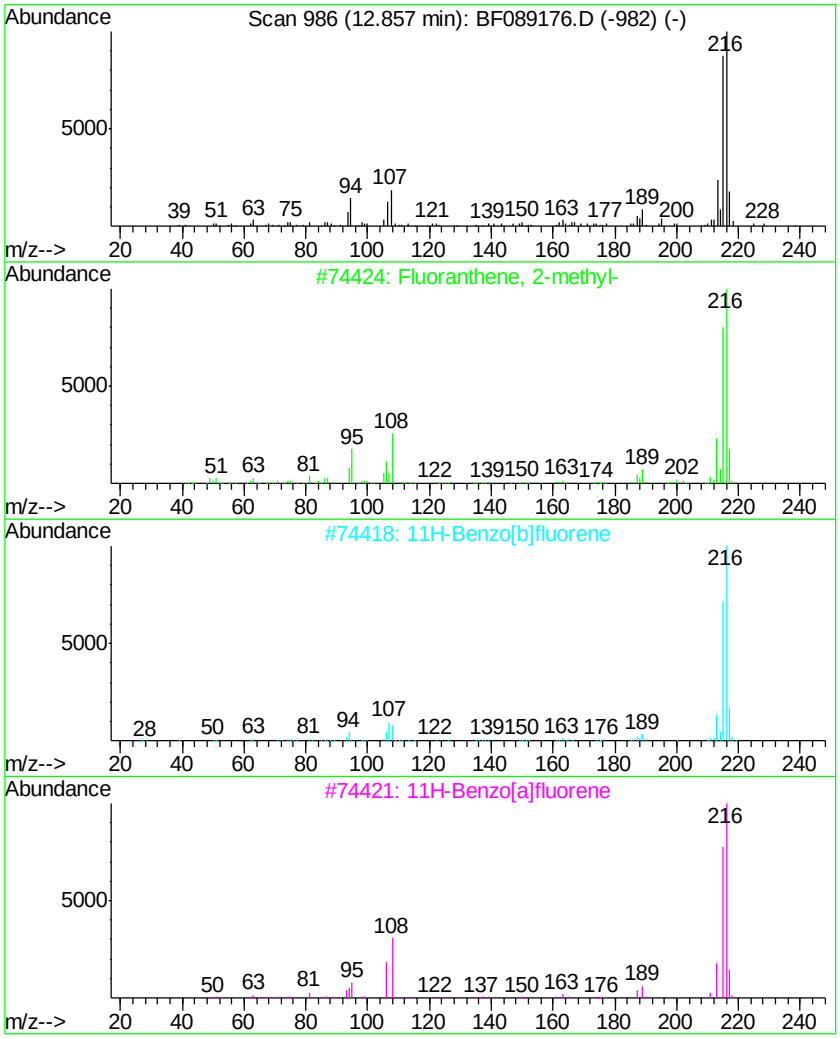
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

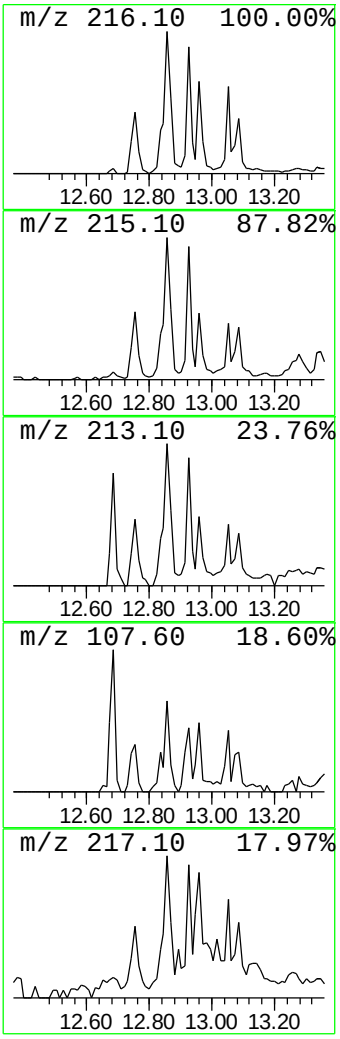
****

Peak Number 8 Fluoranthene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.86	3.45 ng	176811	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	89
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87





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Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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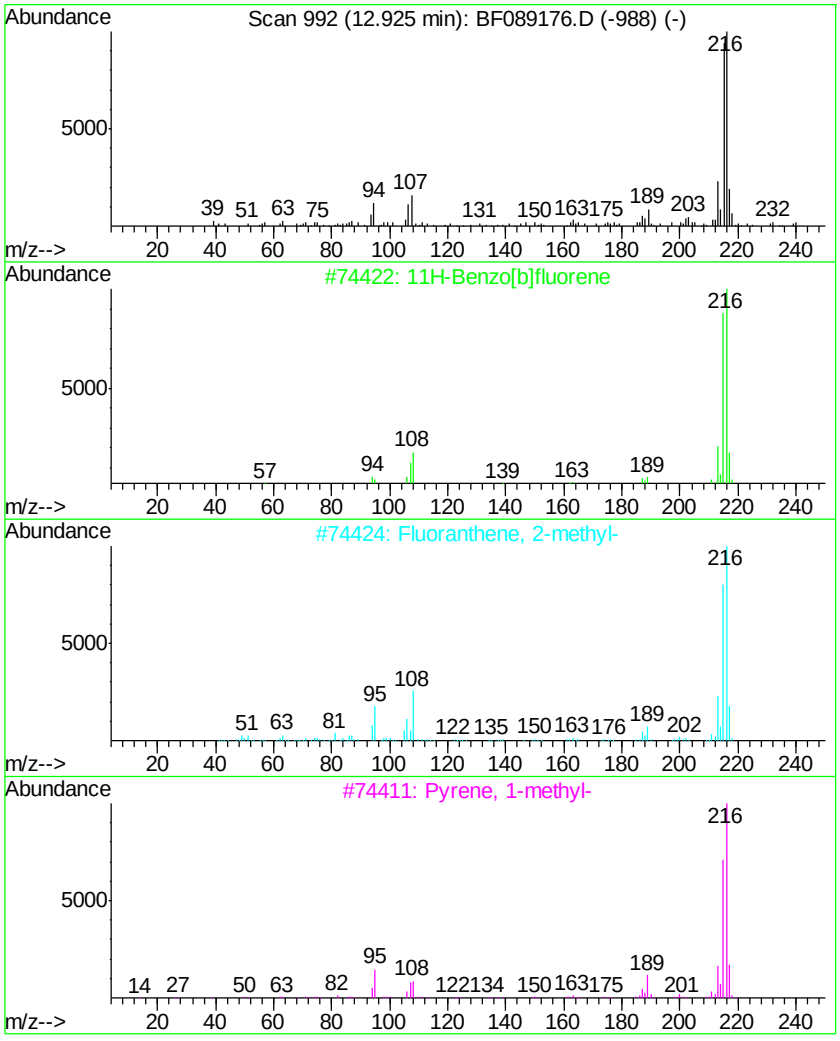
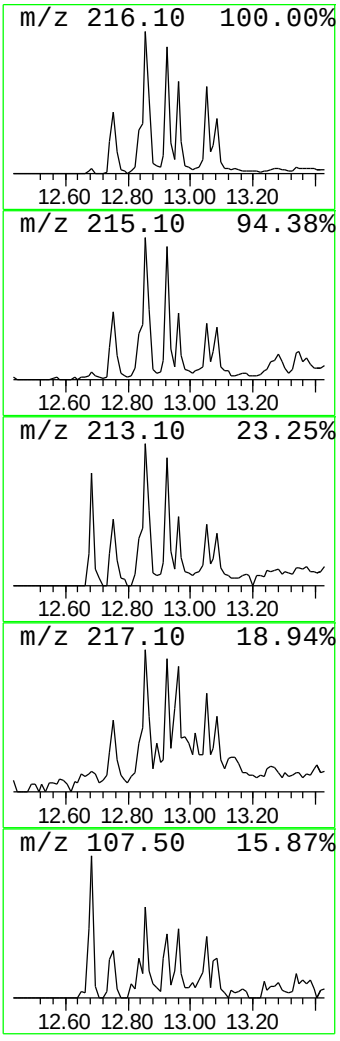
Peak Number 9 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.93	2.30 ng	117924	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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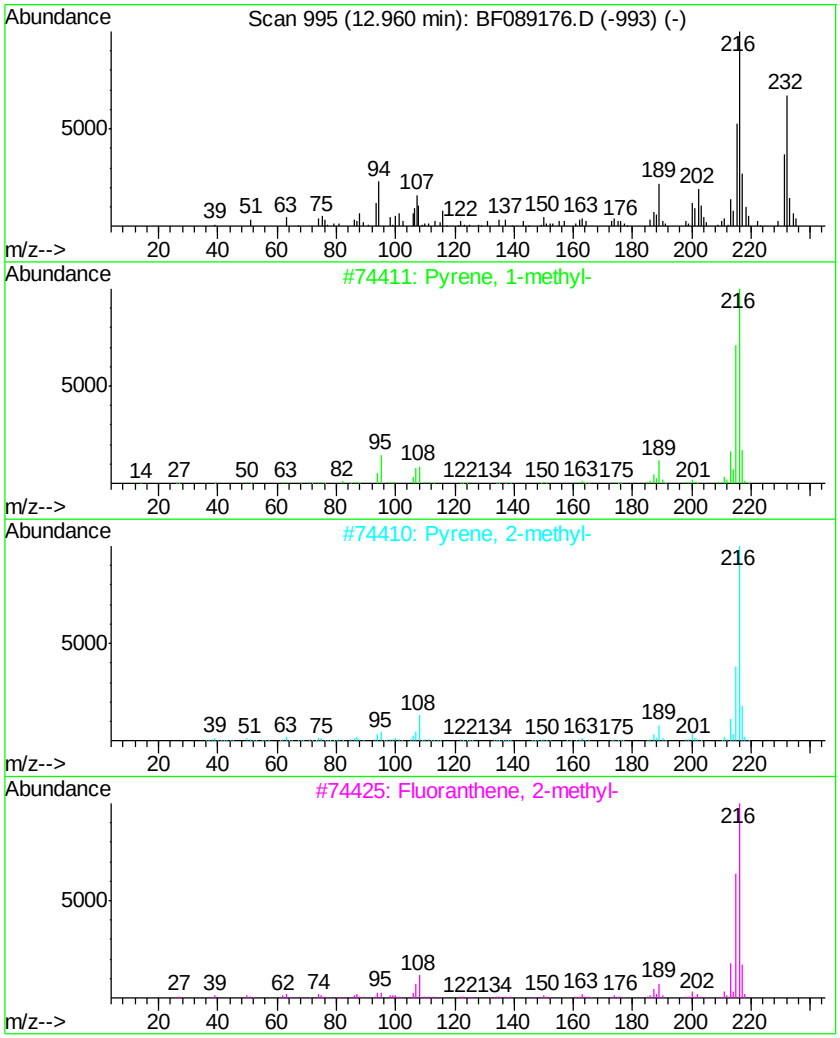
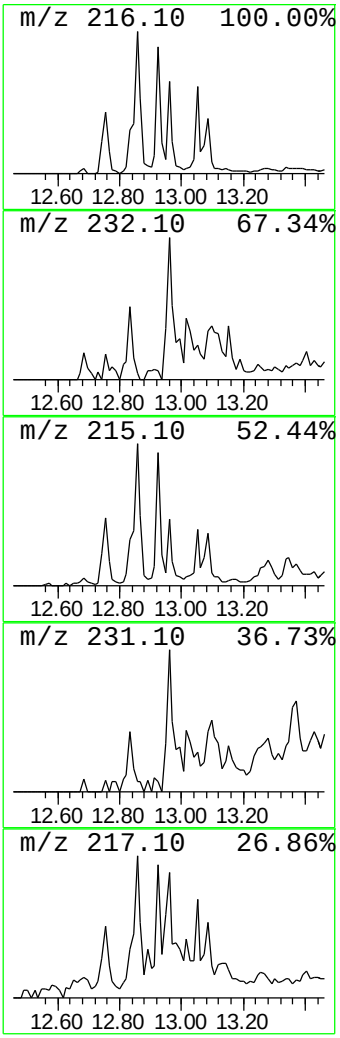
Peak Number 10 Pyrene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	2.09 ng	107402	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	55
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	46
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	43
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	43
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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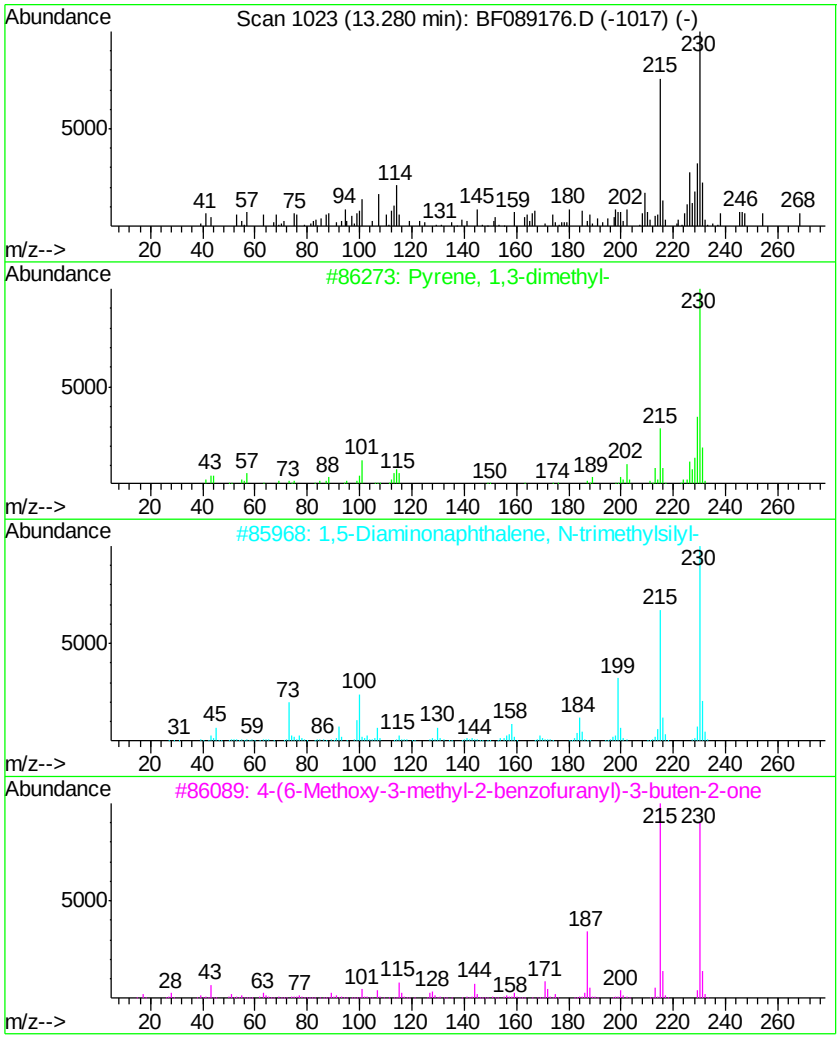
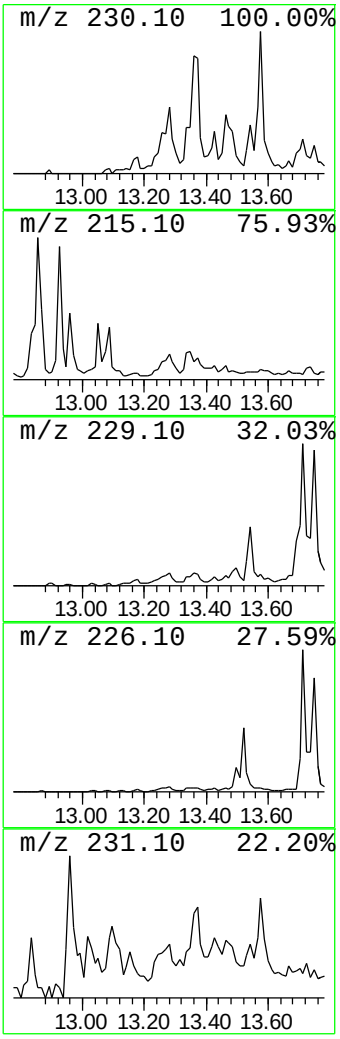
Peak Number 11 Pyrene, 1,3-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	2.88 ng	147719	Chrysene-d12	13.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	70
2	1,5-Diaminonaphthalene, N-trimet...	230	C13H18N2Si	1000364-96-3	58
3	4-(6-Methoxy-3-methyl-2-benzofur...	230	C14H14O3	010444-37-8	53
4	4H-Thiazolo[5,4-b]indole, 7-ethy...	230	C13H14N2S	1000304-41-6	52
5	Tricyclo[7.2.1.0(3,8)]dodeca-3(8...	230	C14H14O3	1000319-33-6	52





Data Path : Z:\HPCHEM1\BNA F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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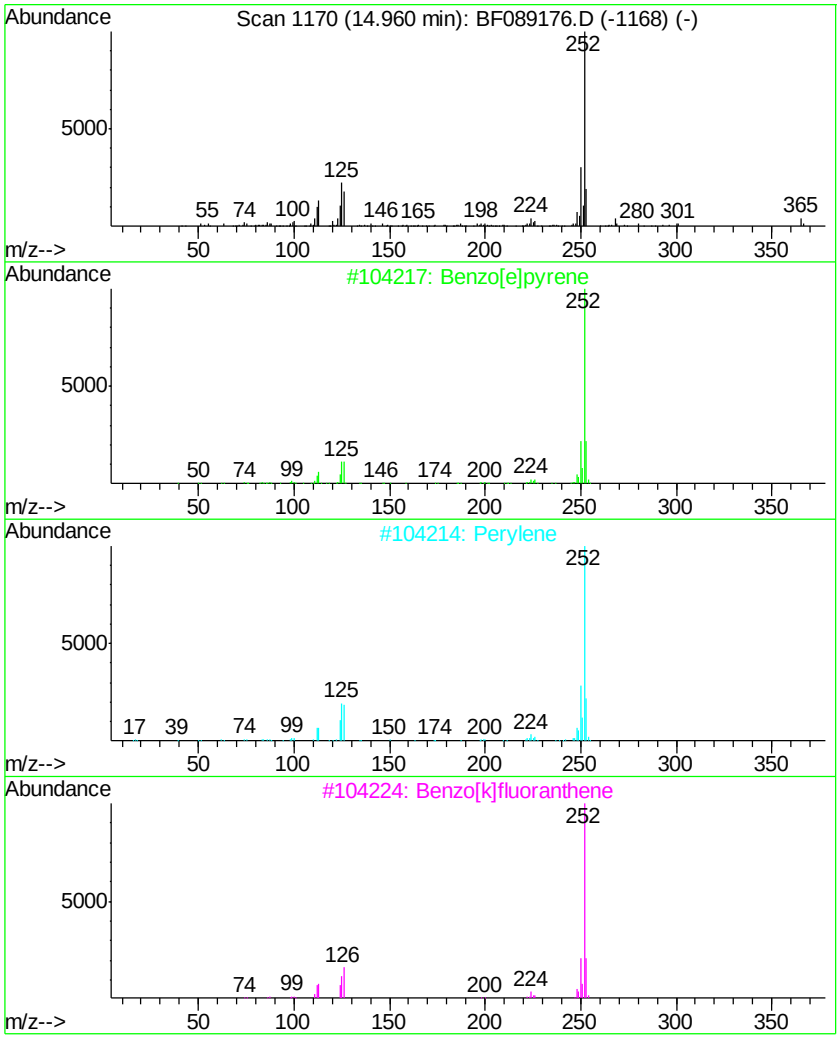
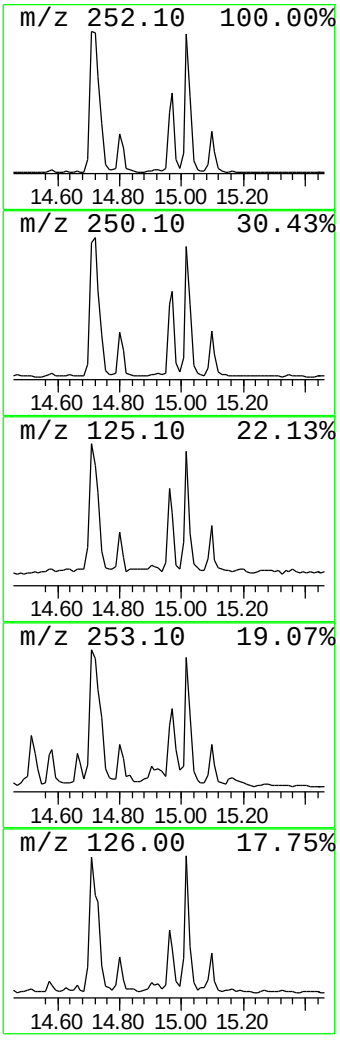
Peak Number 13 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.96	10.43 ng	178335	Perylene-d12	15.07

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	98
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	98
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	98
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072116\
Data File : BF089176.D
Acq On : 21 Jul 2016 13:13
Operator : UM/SJ
Sample : H4112-10
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : KSB-07-0.2-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.73	4.3	ng	60660	1	6.60	279865	20.0
unknown6.36	6.36	89.8	ng	1256680	1	6.60	279865	20.0
Phenanthrene, 1-m...	11.63	2.4	ng	93923	4	11.10	773554	20.0
4H-Cyclopenta[def...	11.71	5.1	ng	196388	4	11.10	773554	20.0
unknown12.45	12.45	2.0	ng	105354	5	13.73	1025780	20.0
Fluoranthene, 2-m...	12.86	3.5	ng	176811	5	13.73	1025780	20.0
11H-Benzo[b]fluorene	12.93	2.3	ng	117924	5	13.73	1025780	20.0
Pyrene, 1-methyl-	12.96	2.1	ng	107402	5	13.73	1025780	20.0
Pyrene, 1,3-dimet...	13.28	2.9	ng	147719	5	13.73	1025780	20.0
Benzo[e]pyrene	14.96	10.4	ng	178335	6	15.07	341999	20.0