LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

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-BF120916.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	3.950	157	163	166	rBV	766671	1466767	3.09%	0.192%
2	4.121	172	178	180	rBV	281278	585449	1.23%	0.077%
3	4.178	180	183	186	rVB	354924	635806	1.34%	0.083%
4	4.327	192	196	201	rVB2	981165	1679335	3.54%	0.219%
5	4.441	201	206	209	rBV	618914	951053	2.00%	0.124%
6	4.544	209	215	218	rBV3	233326	569193	1.20%	0.074%
7	4.613	218	221	223	rBV2	389659	593630	1.25%	0.078%
8	4.658	223	225	227	rBV	629753	942856	1.99%	0.123%
9	4.784	231	236	238	rBV	2407075	3626273	7.63%	0.474%
10	4.876	241	244	247	rVB2	3845347	6183233	13.02%	0.808%
11	4.944	247	250	252	rBV	4804306	6878871	14.48%	0.899%
12	4.990	252	254	255	rBV	316736	568206	1.20%	0.074%
13	5.081	258	262	265	rVB2	666110	1426236	3.00%	0.186%
14	5.150	265	268	270	rBV	4410527	6426838	13.53%	0.840%
15	5.184	270	271	278	rVB3	1275233	2672488	5.63%	0.349%
16	5.287	278	280	281	rBV	322223	556096	1.17%	0.073%
17	5.321	281	283	285	rBV2	1000635	1491401	3.14%	0.195%
18	5.378	285	288	291	rVB	4901170	5595323	11.78%	0.731%
19	5.447	291	294	297	rBV3	1400049	2770857	5.83%	0.362%
20	5.527	299	301	304	rBV	3922984	6940142	14.61%	0.907%
21	5.573	304	305	307	rVB	3895706	3985750	8.39%	0.521%
22	5.618	307	309	313	rVB2	4036599	6769819	14.25%	0.885%
23	5.687	313	315	320	rVB	1257472	1733780	3.65%	0.227%
24	5.790	320	324	326	rBV2	5570440	10379450	21.85%	1.356%
25	5.847	326	329	333	rBV4	1808297	4602584	9.69%	0.601%
26	5.927	333	336	339	rBV2	5896506	10164848	21.40%	1.328%
27	5.996	339	342	343	rBV	2155254	3566264	7.51%	0.466%
28	6.041	343	346	349	rBV2	9446683	21197085	44.63%	2.770%
29	6.099	349	351	352	rVB2	3107522	3392904	7.14%	0.443%
30	6.236	360	363	368	rBV3	5568359	15440868	32.51%	2.018%
31	6.327	368	371	375	rBV3	6164896	19704947	41.49%	2.575%
32	6.430	375	380	384	rVV4	4516736	15873171	33.42%	2.074%
33	6.556	387	391	395	rBV4	5932978	18851147	39.69%	2.463%
34	6.624	395	397	401	rVB	6273062	15452138	32.53%	2.019%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

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-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	6.784	404	411	413	rBV5	4479470	15408264	32.44%	2.014%
36	6.830	413	415	416	rBV	1466727	2005303	4.22%	0.262%
37	6.956	423	426	432	rVB4	6185469	21464765	45.19%	2.805%
38	7.081	432	437	441	rBV4	4578565	17011616	35.81%	2.223%
39	7.207	445	448	453	rVB4	3030482	7721595	16.26%	1.009%
40	7.367	453	462	468	rBV7	8256828	47498656	100.00%	6.207%
41	7.482	469	472	474	rBV3	2276750	6179310	13.01%	0.808%
42	7.870	502	506	510	rBV3	3638396	12029504	25.33%	1.572%
43	8.579	565	568	572	rVB	4350741	11306405	23.80%	1.478%
44	9.173	616	620	624	rVB2	5836121	14320595	30.15%	1.871%
45	9.287	628	630	633	rBV3	2438333	5065264	10.66%	0.662%
46	9.550	648	653	654	rBV3	3331990	10214154	21.50%	1.335%
47	9.607	656	658	661	rVB2	5874923	12110601	25.50%	1.583%
48	9.859	677	680	682	rBV3	2669080	5300616	11.16%	0.693%
49	9.905	682	684	688	rVV6	2672324	5242918	11.04%	0.685%
50	9.973	688	690	692	rVB	3274189	4750547	10.00%	0.621%
51	10.053	696	697	700	rVV3	3840625	5679186	11.96%	0.742%
52	10.110	700	702	706	rVV4	3629913	7427016	15.64%	0.971%
53	10.179	706	708	709	rVV	2736359	3687728	7.76%	0.482%
54	10.259	713	715	718	rBV3	2348242	3465155	7.30%	0.453%
55	10.385	724	726	733	rVV7	2731695	8973039	18.89%	1.173%
56	10.499	733	736	738	rVV	6749795	9254151	19.48%	1.209%
57	10.545	738	740	742	rVB2	1535782	2577264	5.43%	0.337%
58	10.762	756	759	762	rVB	7217147	10520619	22.15%	1.375%
59	10.956	774	776	778	rVB3	896197	1479501	3.11%	0.193%
60	11.093	784	788	790	rBV2	3618364	5499193	11.58%	0.719%
61	11.219	797	799	800	rBV	2501135	2793145	5.88%	0.365%
62	11.265	800	803	806	rVB2	3372803	7508138	15.81%	0.981%
63	11.333	806	809	811	rBV2	1316283	2346924	4.94%	0.307%
64	11.402	814	815	817	rBV2	901311	1632048	3.44%	0.213%
65	11.459	817	820	824	rVV6	2440453	6320883	13.31%	0.826%
66	11.539	824	827	828	rVV3	2414722	4220762	8.89%	0.552%
67	11.585	828	831	832	rVV3	6313969	11615958	24.46%	1.518%
68	11.619	832	834	835	rVV	6330022	9082593	19.12%	1.187%
69	11.653	835	837	839	rVV3	3169382	6262681	13.18%	0.818%
70	11.722	839	843	844	rVV2	7996997	15350121	32.32%	2.006%
71	11.745	844	845	849	rVV3	2880089	7113576	14.98%	0.930%

LSC Area Percent Report

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Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

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-BF120916.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.813	849	851	853	rVV	7235515	10933378	23.02%	1.429%
73	11.871	853	856	858	rVV2	5401004	14190558	29.88%	1.854%
74	11.916	858	860	862	rVV2	8747198	18726562	39.43%	2.447%
75	12.019	866	869	871	rVV3	7802422	19455845	40.96%	2.543%
76	12.076	871	874	875	rVV2	7068017	16336588	34.39%	2.135%
77	12.133	876	879	881	rVV3	9920301	23719160	49.94%	3.100%
78	12.191	881	884	888	rVV4	7612919	20636664	43.45%	2.697%
79	12.271	888	891	895	rVV3	6747662	16740256	35.24%	2.188%
80	12.362	895	899	901	rVV	8700216	21763360	45.82%	2.844%
81	12.396	901	902	904	rVV2	1738767	2994760	6.30%	0.391%
82	12.453	904	907	908	rVV	5606165	8316862	17.51%	1.087%
83	12.499	908	911	913	rVV4	1233538	1983777	4.18%	0.259%
84	12.579	914	918	921	rVV3	5972284	9858661	20.76%	1.288%
85	12.625	921	922	926	rVV2	2666652	4404570	9.27%	0.576%
86	12.693	926	928	931	rVB3	1507246	3208668	6.76%	0.419%
87	12.888	941	945	952	rVB2	7163638	17866957	37.62%	2.335%
88	13.048	955	959	961	rVB2	5393159	8570118	18.04%	1.120%
89	13.174	969	970	974	rVB3	1199526	1801932	3.79%	0.235%
90	13.368	985	987	988	rBV2	848195	1250610	2.63%	0.163%
91	13.391	988	989	992	rVV3	702227	1358802	2.86%	0.178%
92	13.471	994	996	998	rVV3	710229	976697	2.06%	0.128%
93	13.539	1000	1002	1003	rVB	782478	739618	1.56%	0.097%
94	13.619	1008	1009	1012	rVB3	692189	882095	1.86%	0.115%
95	13.939	1035	1037	1038	rVB	1000190	973778	2.05%	0.127%
96	15.265	1151	1153	1155	rVB2	431042	594802	1.25%	0.078%
97	15.940	1209	1212	1215	rBV4	189905	556490	1.17%	0.073%
98	16.145	1226	1230	1232	rVB2	351068	894057	1.88%	0.117%
99	16.328	1244	1246	1248	rVV2	312909	604583	1.27%	0.079%
100	16.397	1250	1252	1254	rVV2	328962	763557	1.61%	0.100%

Sum of corrected areas: 765218367

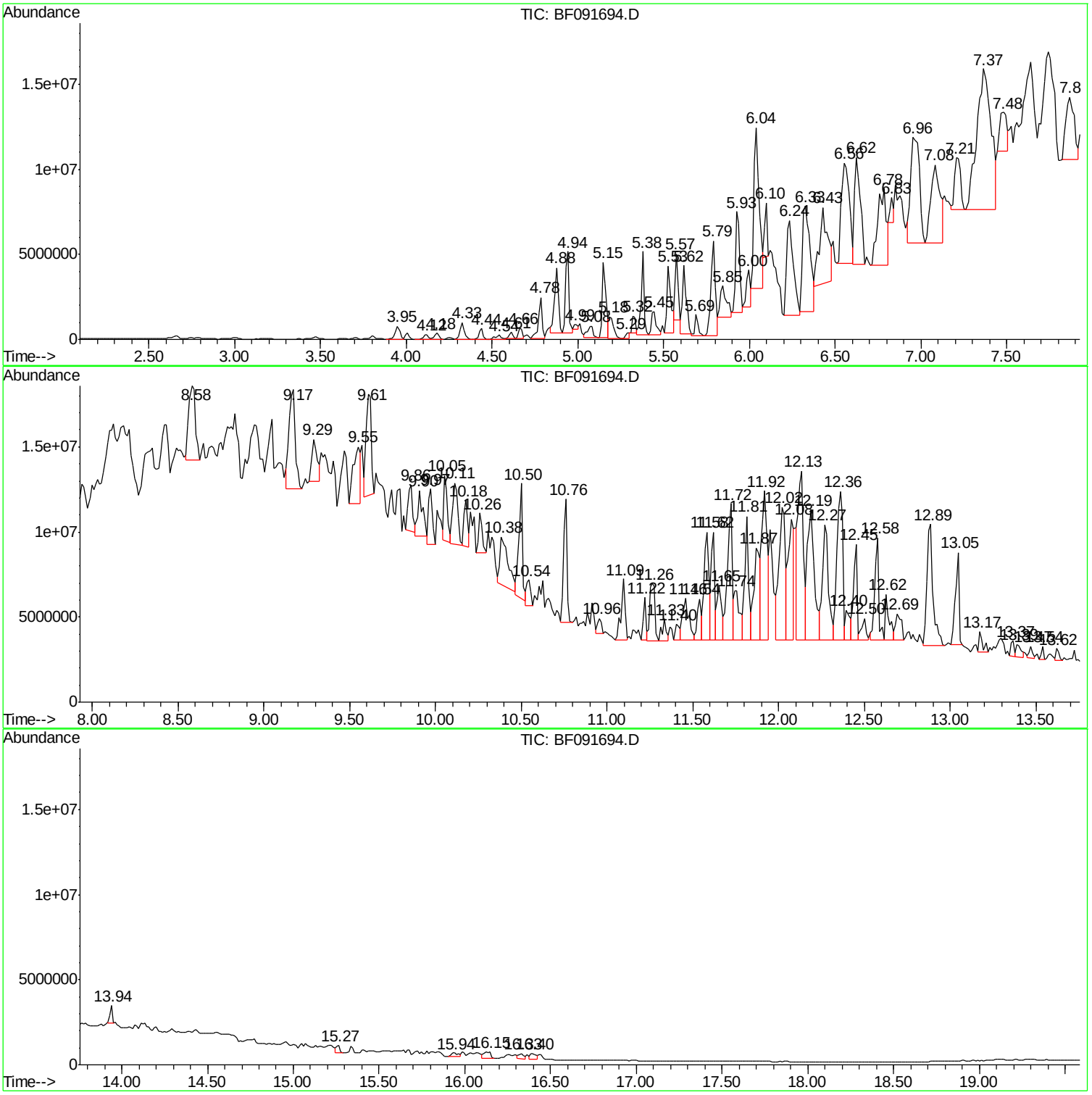
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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\BF121616\
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Misc :
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Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

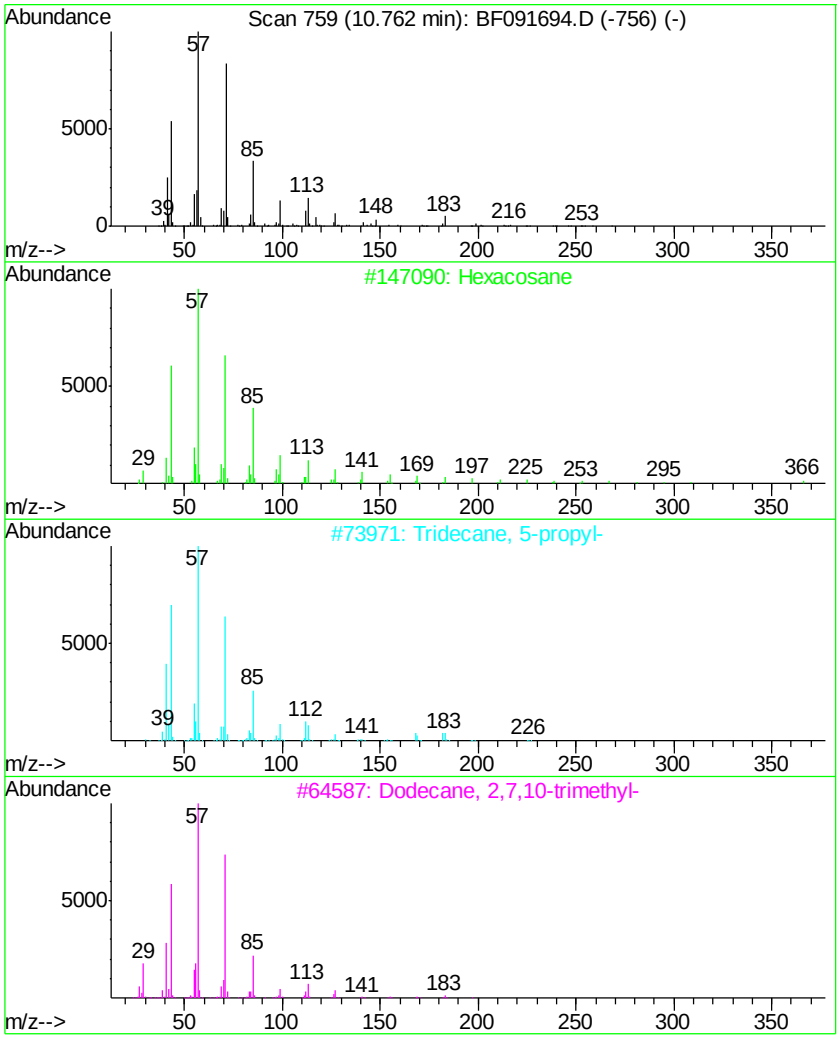
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

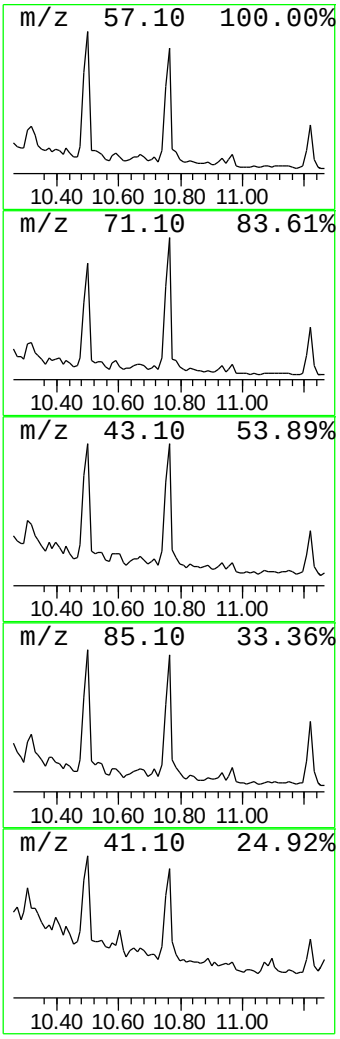
****

Peak Number 1 Hexacosane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.76	89.65 ng	10520600	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	78
2	Tridecane, 5-propyl-	226	C16H34	055045-11-9	78
3	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	64
4	5,5-Dibutylnonane	240	C17H36	006008-17-9	58
5	Octane, 3,3-dimethyl-	142	C10H22	004110-44-5	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

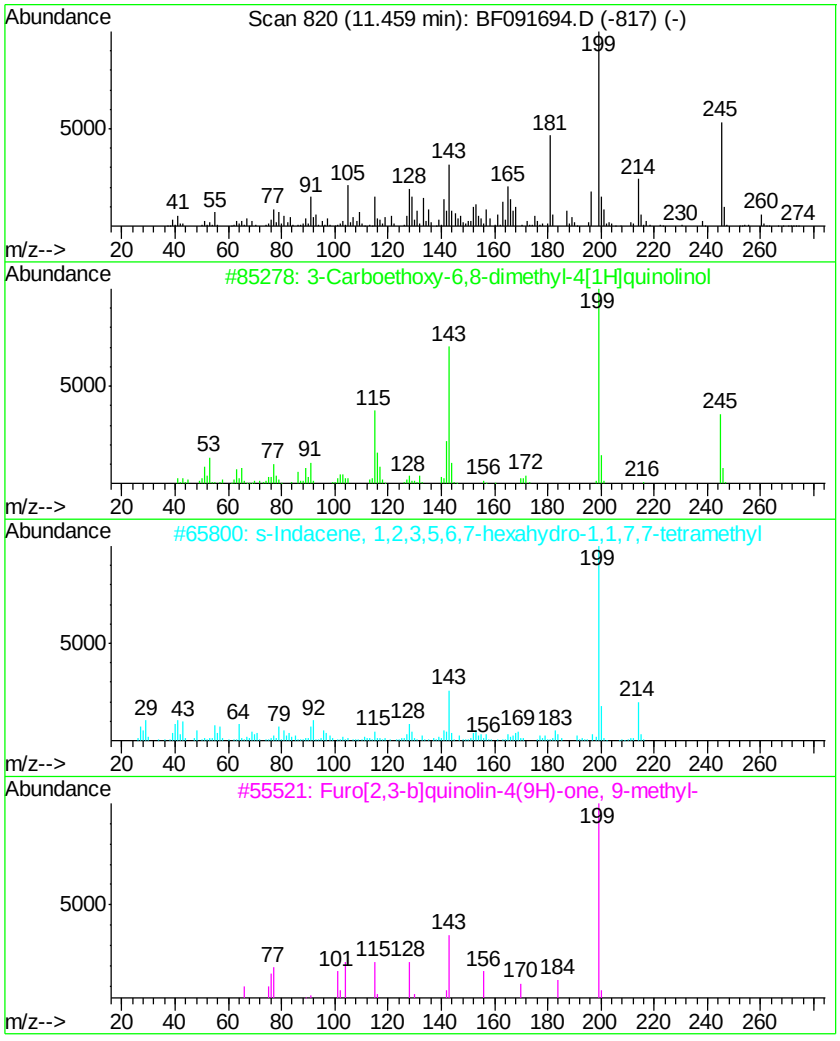
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

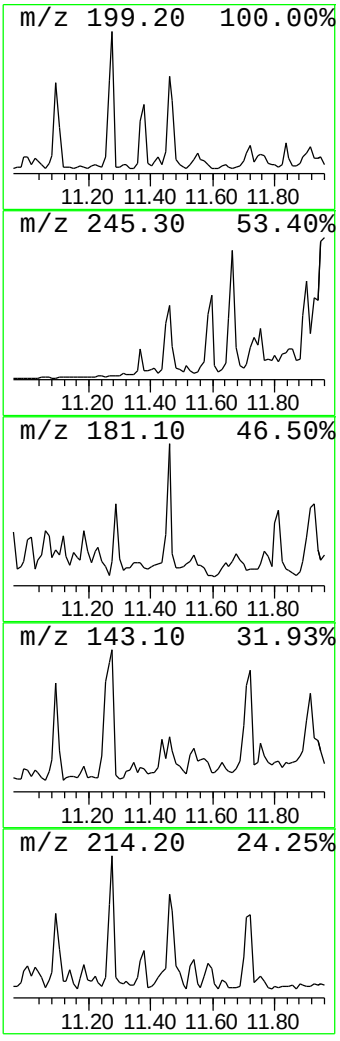
****

Peak Number 2 3-Carboethoxy-6,8-dimethyl-... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.46	53.87 ng	6320880	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Carboethoxy-6,8-dimethyl-4[1H]...	245	C14H15NO3	077156-77-5	70
2	s-Indacene, 1,2,3,5,6,7-hexahydr...	214	C16H22	006047-64-9	38
3	Furo[2,3-b]quinolin-4(9H)-one, 9...	199	C12H9NO2	000484-74-2	35
4	1,1,2,2-Tetrakis(4-hydroxyphenyl...	398	C26H22O4	007727-33-5	22
5	2-Methylnaphtho(1,8-d,E)(1,3)thi...	199	C12H9NS	087094-19-7	18





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
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Operator : UM/SJ
Sample : H6125-05
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Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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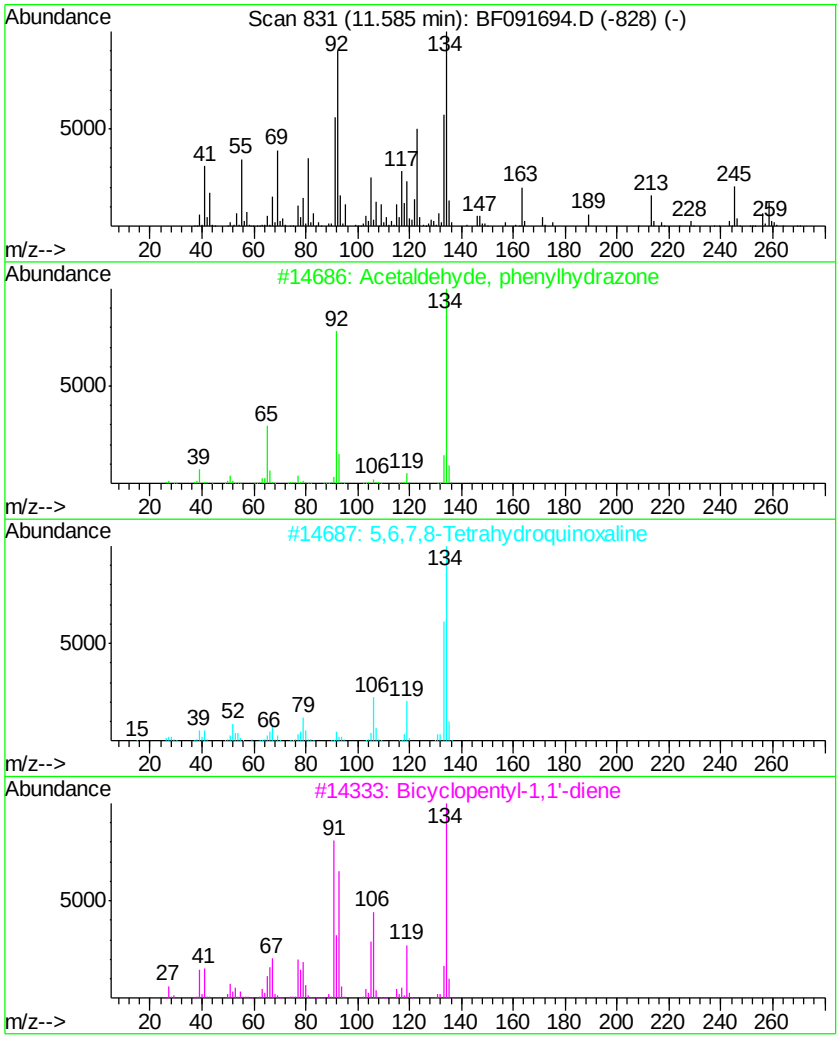
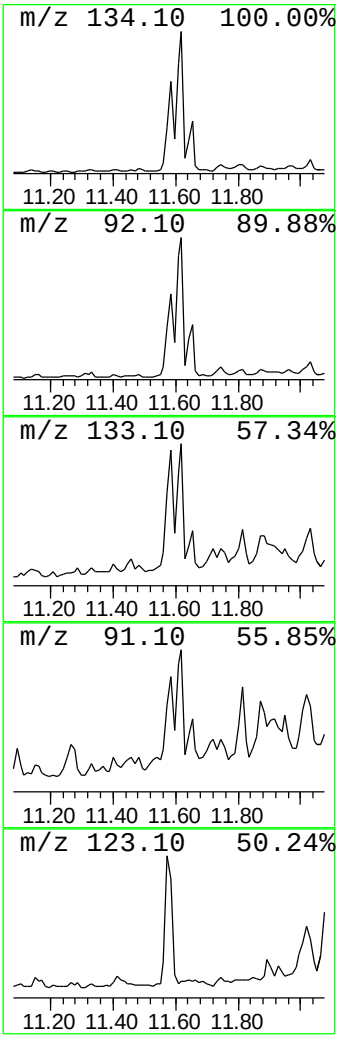
Peak Number 3 unknown11.58 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	98.99 ng	11616000	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde, phenylhydrazone	134	C8H10N2	000935-07-9	38
2	5,6,7,8-Tetrahydroquinoxaline	134	C8H10N2	034413-35-9	30
3	Bicyclopentyl-1,1'-diene	134	C10H14	000934-02-1	27
4	Benzofuran, 2,3-dihydro-2-methyl-	134	C9H10O	001746-11-8	25
5	5-Methylene-4,5,6,6a-tetrahydro-...	134	C9H10O	1000193-02-7	25





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

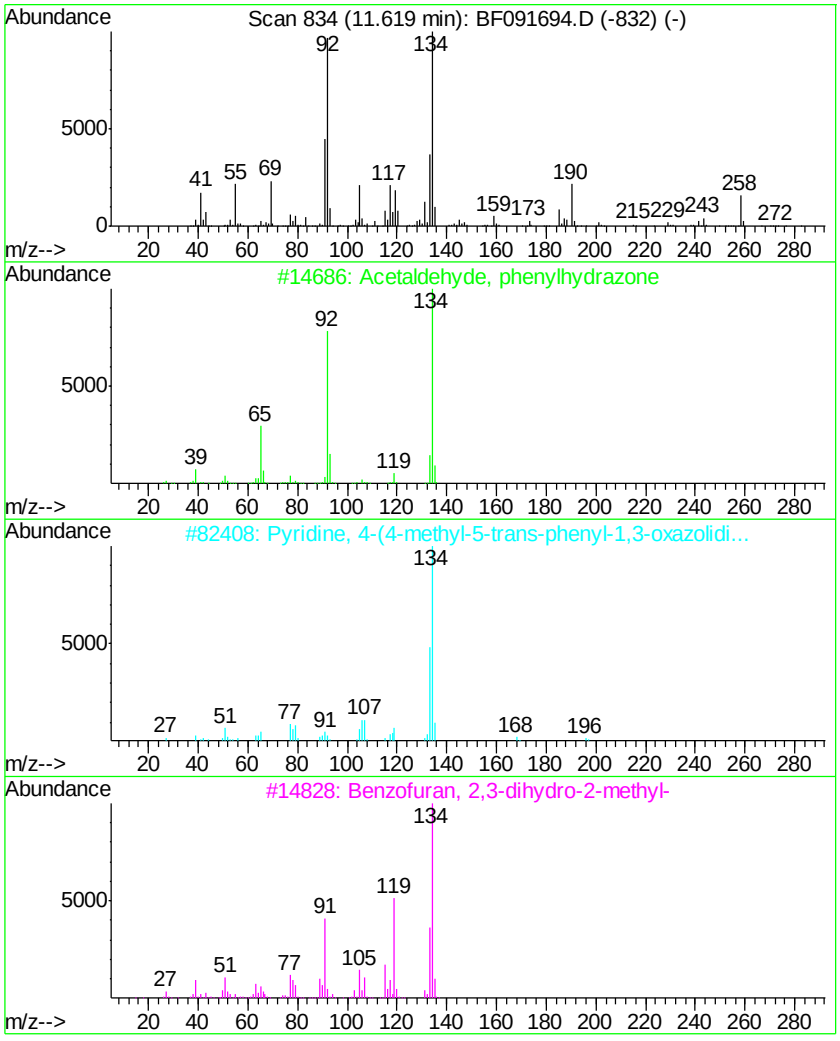
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

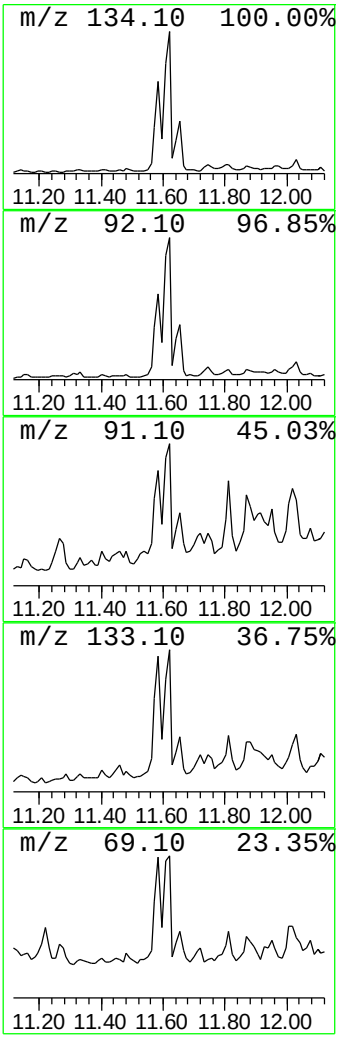
****

Peak Number 4 Acetaldehyde, phenylhydrazone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.62	77.40 ng	9082590	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde, phenylhydrazone	134	C8H10N2	000935-07-9	53
2	Pyridine, 4-(4-methyl-5-trans-ph...	240	C15H16N2O	1000142-75-4	38
3	Benzofuran, 2,3-dihydro-2-methyl-	134	C9H10O	001746-11-8	38
4	2-Allylphenol	134	C9H10O	001745-81-9	38
5	2-(1-Cyclopentenyl)furan	134	C9H10O	115754-78-4	35





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

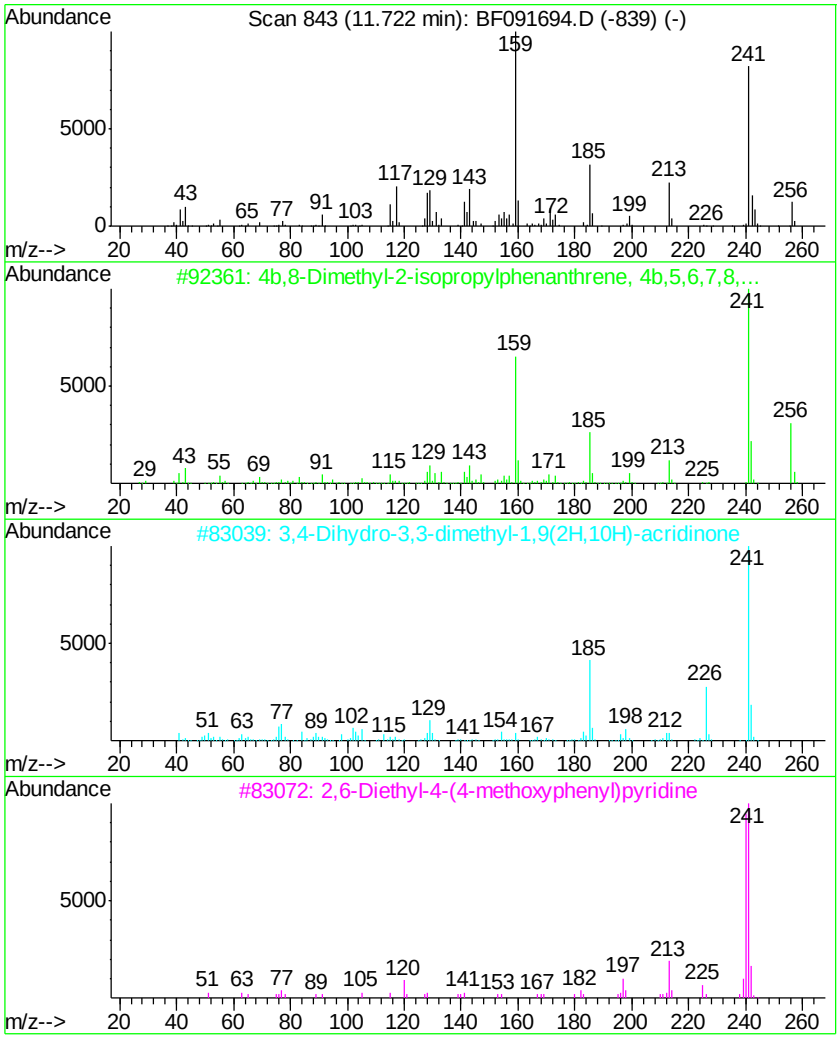
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

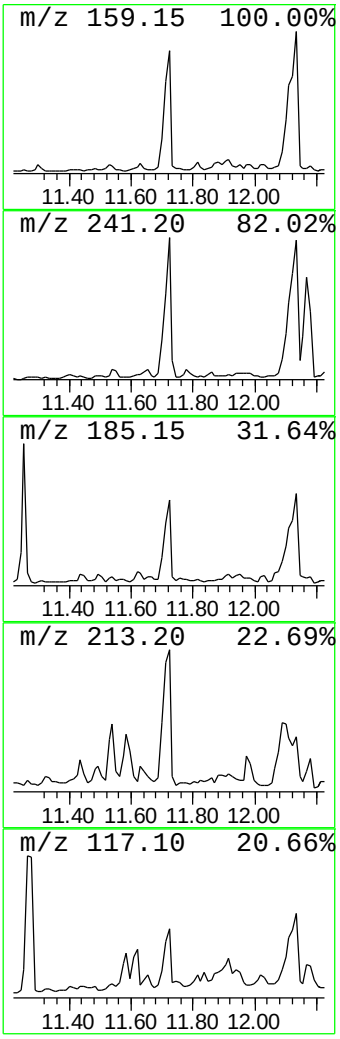
****

Peak Number 6 4b,8-Dimethyl-2-isopropylph... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	130.81 ng	15350100	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	91
2	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15NO2	1000212-95-2	38
3	2,6-Diethyl-4-(4-methoxyphenyl)p...	241	C16H19NO	073669-46-2	35
4	Uracil, 5-(p-cyanophenyl)-1,3-di...	241	C13H11N3O2	1000164-78-4	25
5	Phosphoric acid, bis(trimethylsi...	256	C7H21O4PSi2	018291-81-1	25





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Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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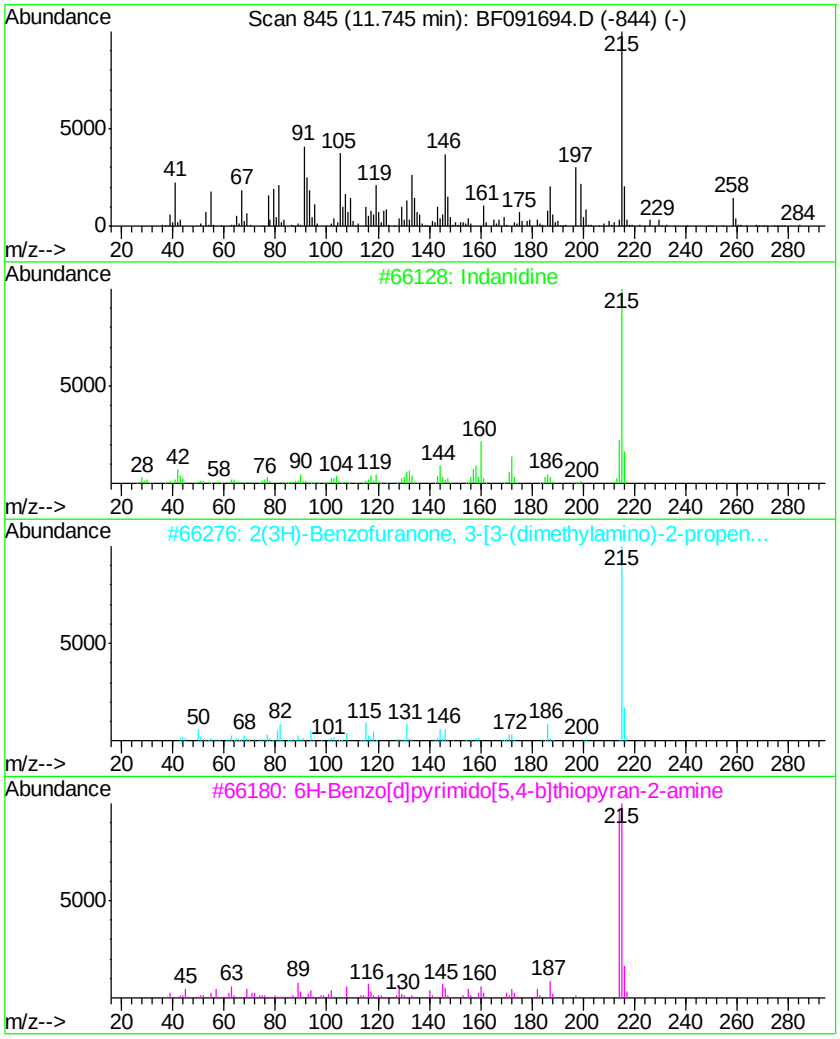
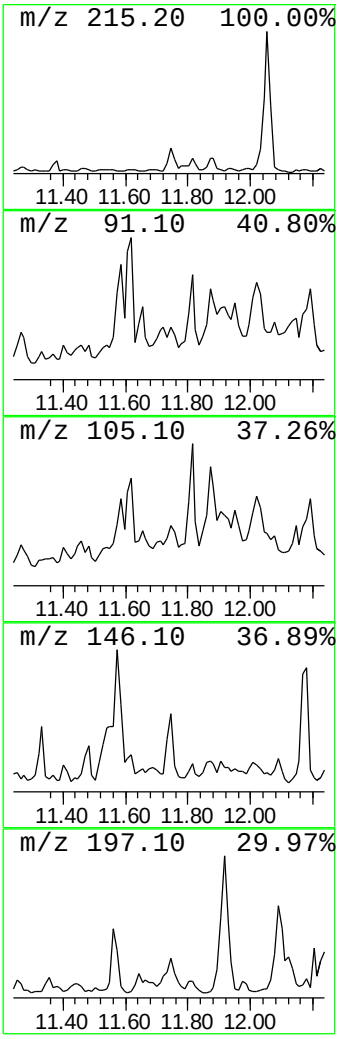
Peak Number 7 unknown11.74 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	60.62 ng	7113580	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indanidine	215	C11H13N5	085392-79-6	32
2	2(3H)-Benzofuranone, 3-[3-(dimet...	215	C13H13NO2	056771-83-6	30
3	6H-Benzo[d]pyrimido[5,4-b]thiopy...	215	C11H9N3S	1000267-44-6	30
4	1,2-Benzenediamine, 4-(4-aminoph...	215	C12H13N3O	006264-66-0	27
5	3-[5-(Pyridin-3-yl)-2-thienyl]pr...	215	C12H9NOS	1000267-23-5	17





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Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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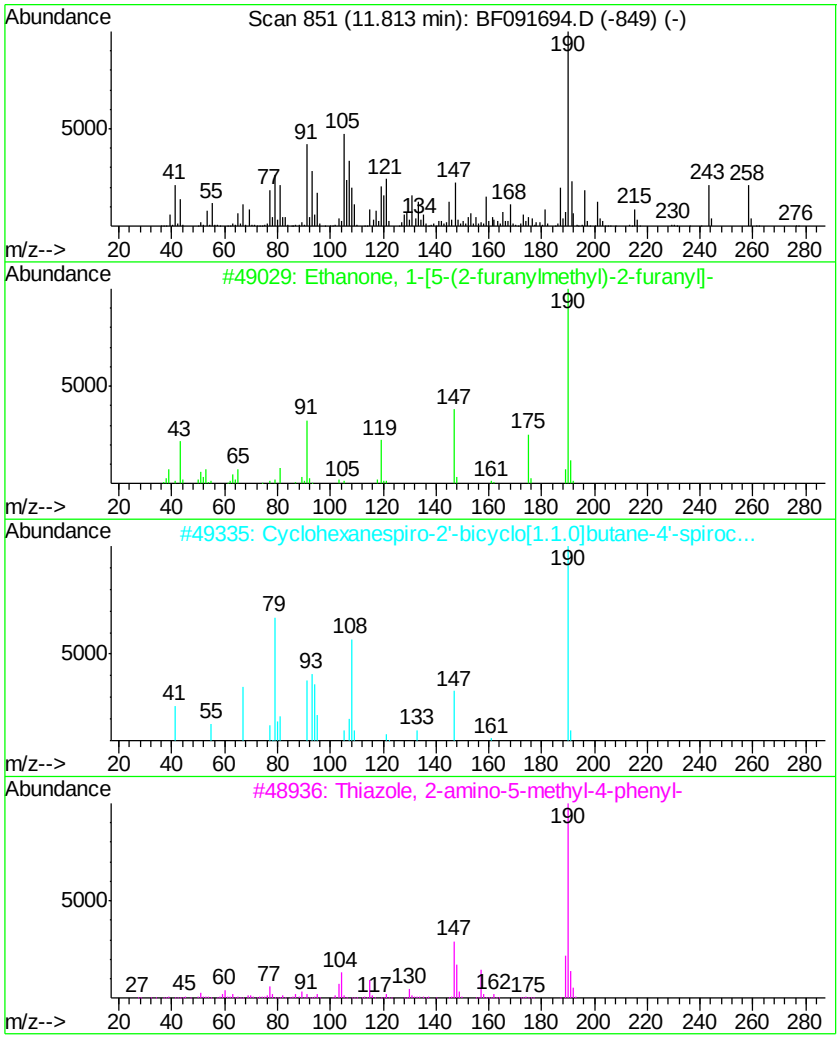
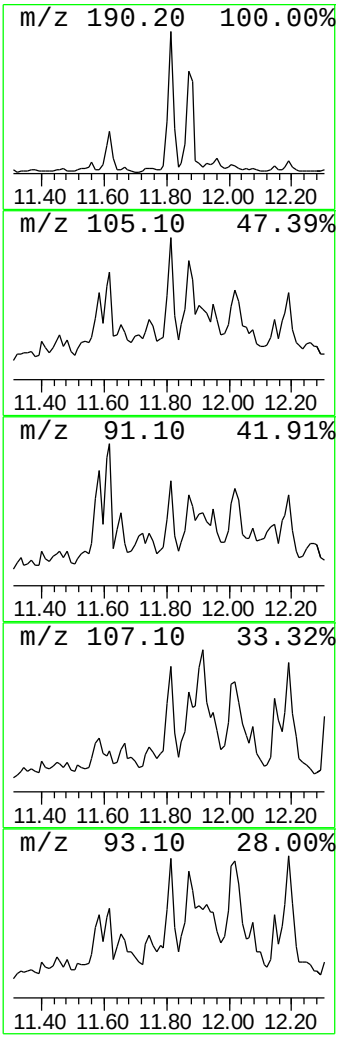
Peak Number 8 unknown11.81 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	93.17 ng	10933400	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanone, 1-[5-(2-furanylmethyl)...	190	C11H10O3	052805-84-2	43
2	Cyclohexanespiro-2'-bicyclo[1.1....	190	C14H22	107924-94-7	35
3	Thiazole, 2-amino-5-methyl-4-phe...	190	C10H10N2S	030709-67-2	27
4	Pyridazine-3(2H)-thione, 4-chlor...	190	C6H7ClN2OS	072038-53-0	27
5	2,6-Piperazinedione, 4-phenyl-	190	C10H10N2O2	042239-75-8	27





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Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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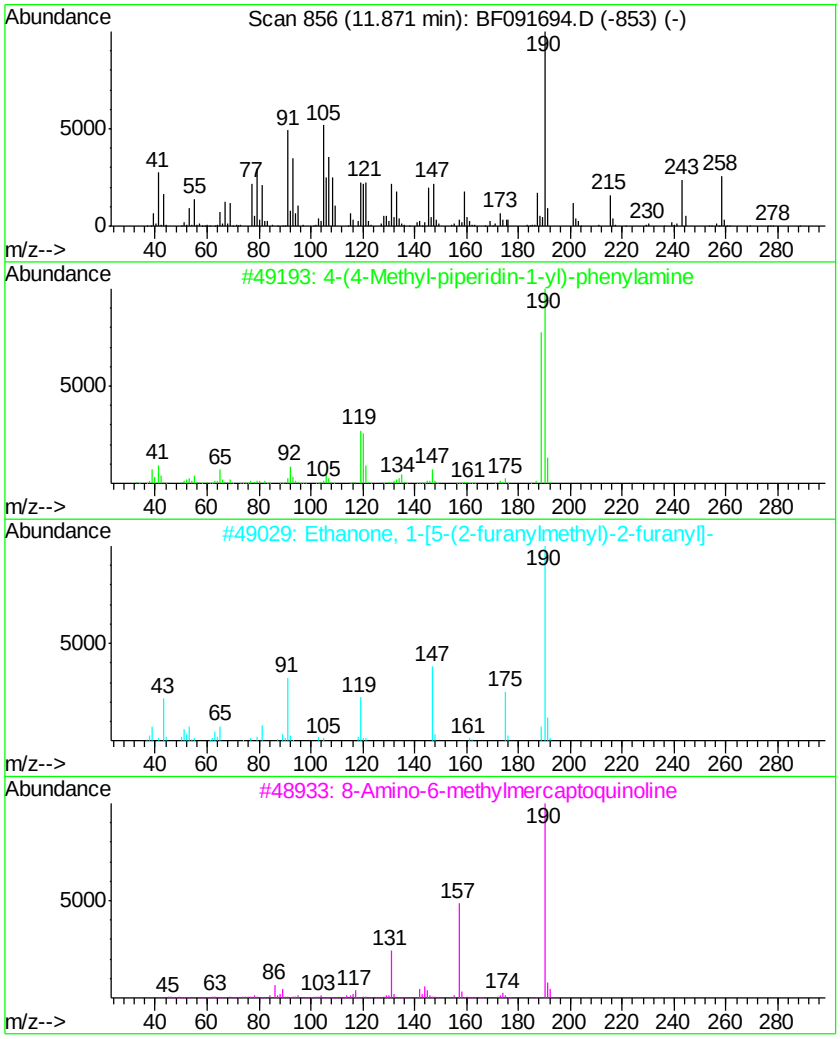
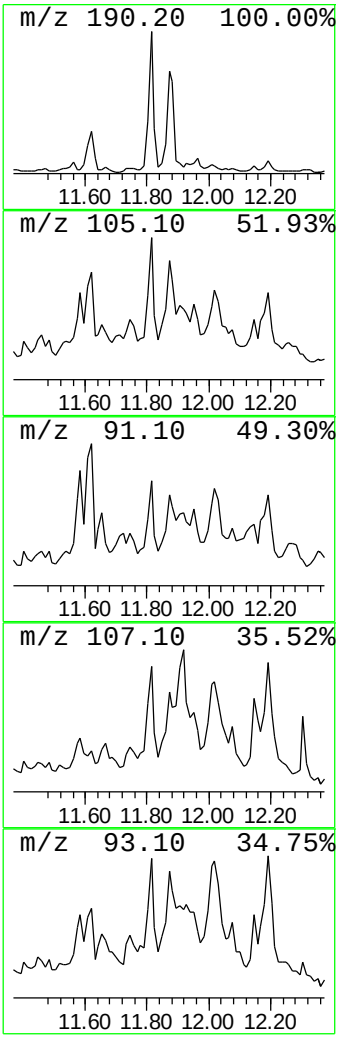
Peak Number 9 unknown11.87 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	120.93 ng	14190600	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(4-Methyl-piperidin-1-yl)-phen...	190	C12H18N2	342013-25-6	35
2	Ethanone, 1-[5-(2-furanylmethyl)...	190	C11H10O3	052805-84-2	27
3	8-Amino-6-methylmercaptoquinoline	190	C10H10N2S	1000227-11-0	27
4	2-Cyano-6-methoxybenzothiazole	190	C9H6N2OS	000943-03-3	25
5	2,3-Quinoxalinedione, 1,4-dihydr...	190	C10H10N2O2	002474-50-2	25





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Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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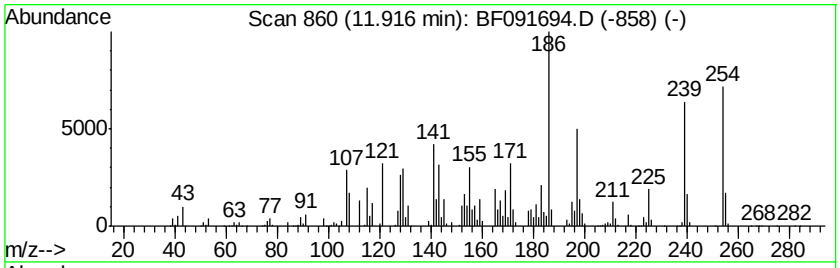
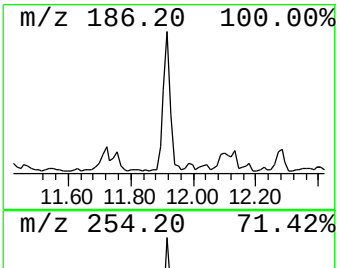
Peak Number 10 unknown11.92 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	159.58 ng	18726600	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,7-Dimethyl-7,8-dihydro-6H-5,9-...	254	C17H18O2	161895-54-1	27
2	Benzoic acid, 4-[2-(3-methoxyphe...	254	C16H14O3	1000197-90-6	25
3	2,6-Di(2-furylmethylidene)cycloh...	254	C16H14O3	000893-00-5	22
4	1-Naphthol, 2,5,8-trimethyl-	186	C13H14O	033583-02-7	22
5	Anthracene, 1,2,3,4,5,6,7,8-octa...	186	C14H18	001079-71-6	20





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Sample : H6125-05
Misc :
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Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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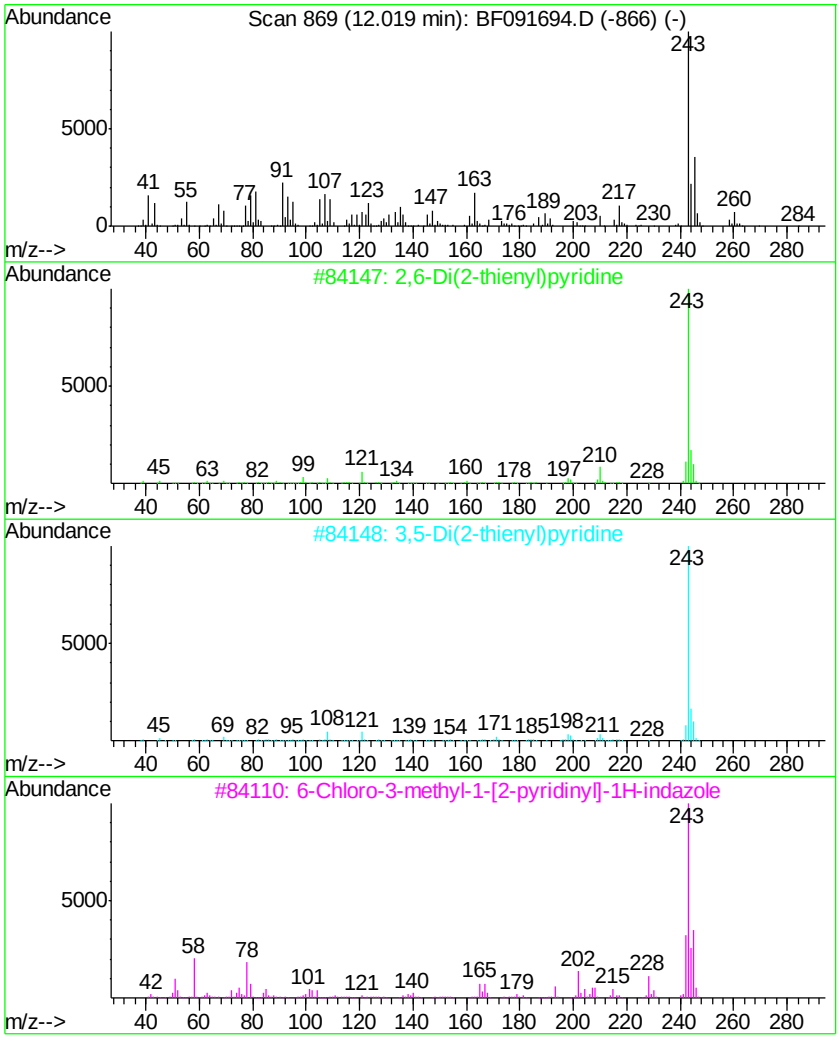
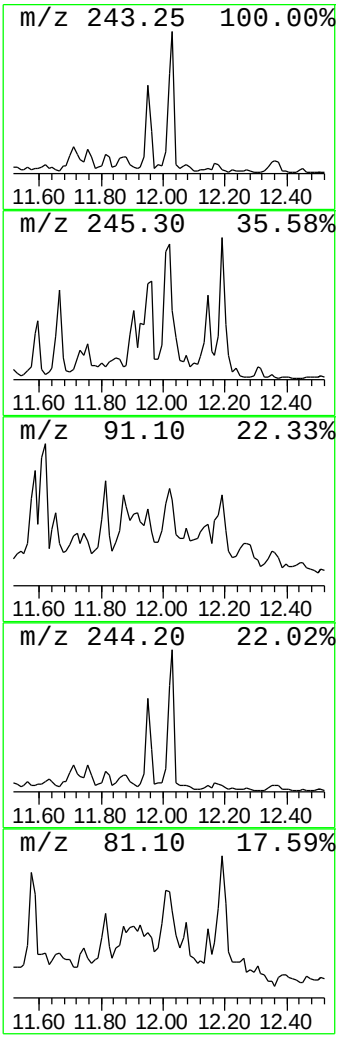
Peak Number 11 2,6-Di(2-thienyl)pyridine Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	165.80 ng	19455800	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6-Di(2-thienyl)pyridine	243	C13H9NS2	035299-71-9	58
2	3,5-Di(2-thienyl)pyridine	243	C13H9NS2	117823-19-5	53
3	6-Chloro-3-methyl-1-[2-pyridinyl...	243	C13H10ClN3	1000212-77-1	53
4	3-Phenyl-4-azafluorene	243	C18H13N	033777-97-8	47
5	9H-Carbazole, 9-phenyl-	243	C18H13N	001150-62-5	47





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Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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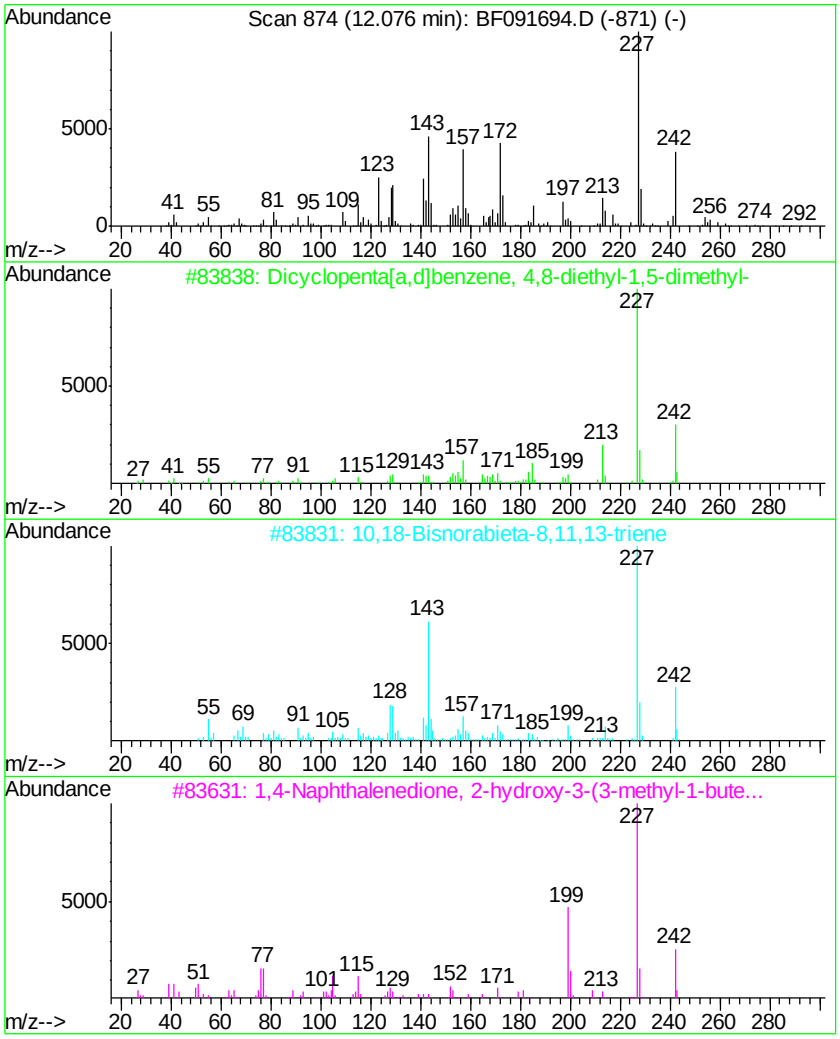
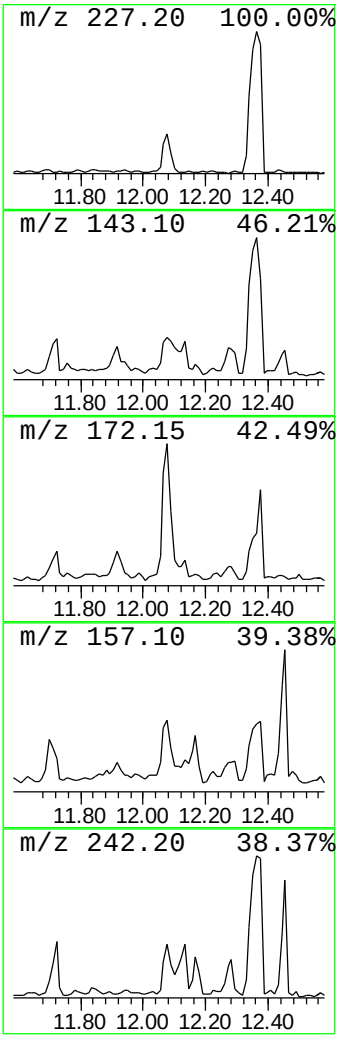
Peak Number 12 Dicyclopenta[a,d]benzene, 4... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.08	139.22 ng	16336600	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dicyclopenta[a,d]benzene, 4,8-di...	242	C18H26	1000156-41-6	66
2	10,18-Bisnorabieta-8,11,13-triene	242	C18H26	032624-67-2	49
3	1,4-Naphthalenedione, 2-hydroxy-...	242	C15H14O3	004042-39-1	35
4	2-(4'-Hydroxyphenyl)-2-(4'-metho...	242	C16H18O2	016530-58-8	30
5	7-Diethylamino-2-oxo-2H-chromene...	242	C14H14N2O2	332411-59-3	27





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Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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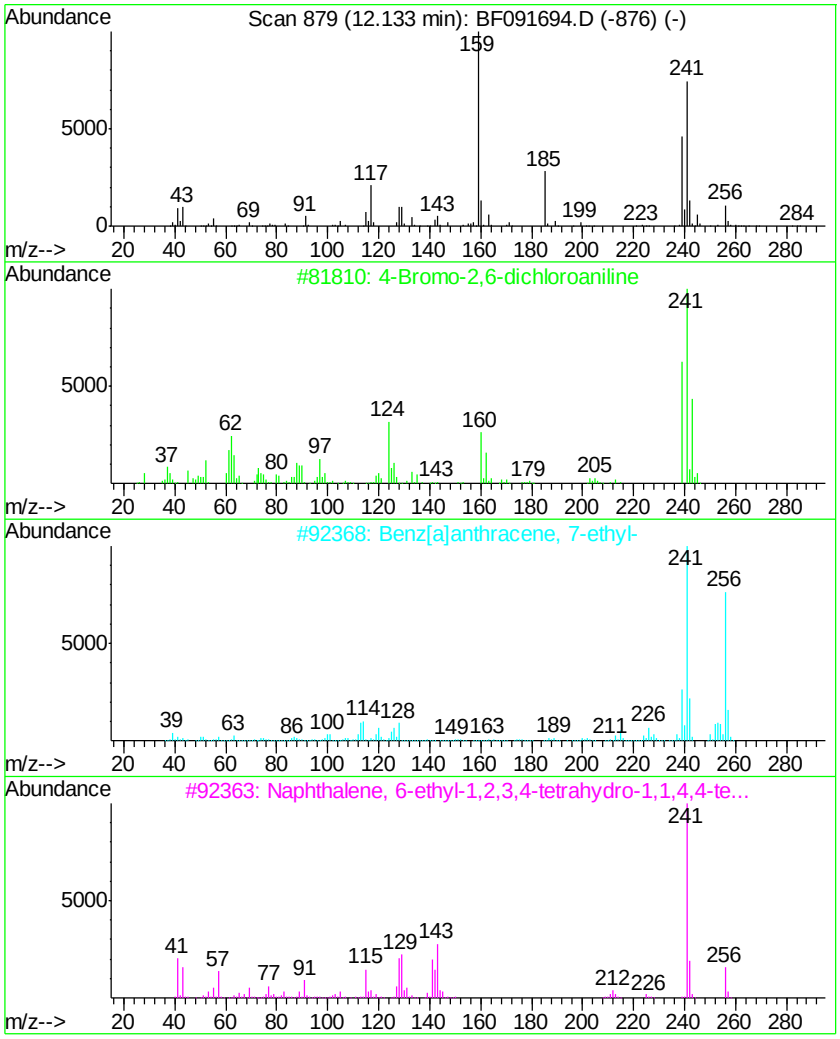
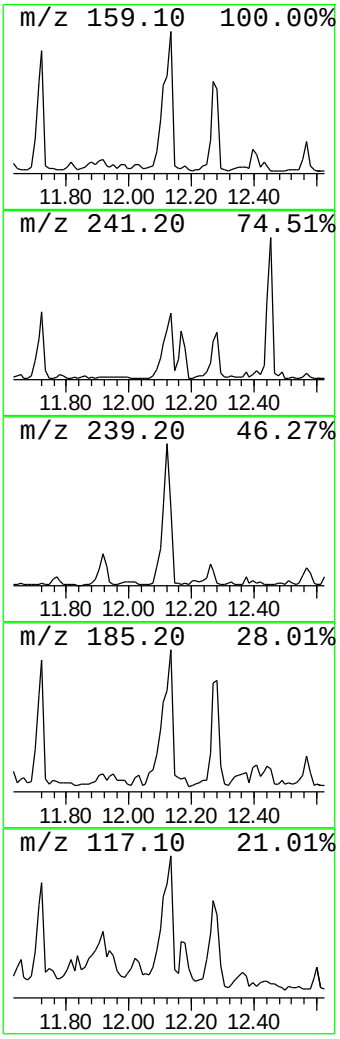
Peak Number 13 unknown12.13 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	202.13 ng	23719200	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Bromo-2,6-dichloroaniline	239	C6H4BrCl2N	000697-86-9	35
2	Benz[a]anthracene, 7-ethyl-	256	C20H16	003697-30-1	27
3	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	301643-35-6	22
4	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	15
5	Naphthalene, 1,2,3,4-tetrahydro-...	202	C15H22	000483-77-2	14





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Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
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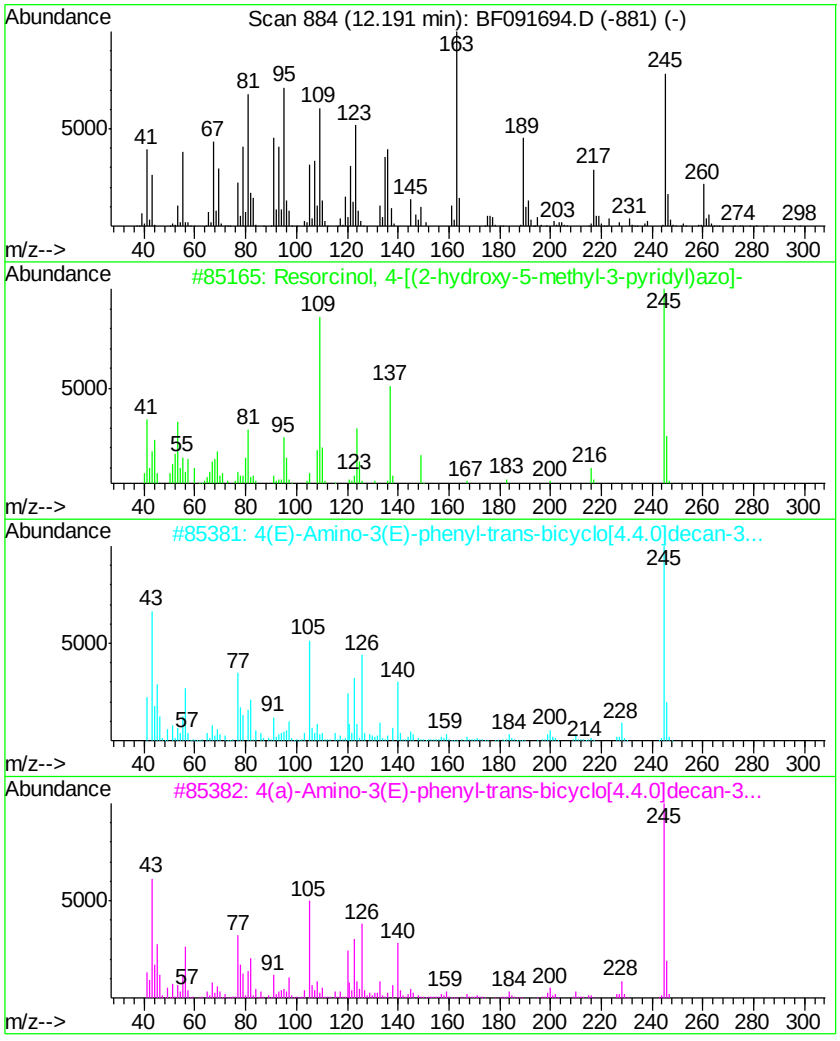
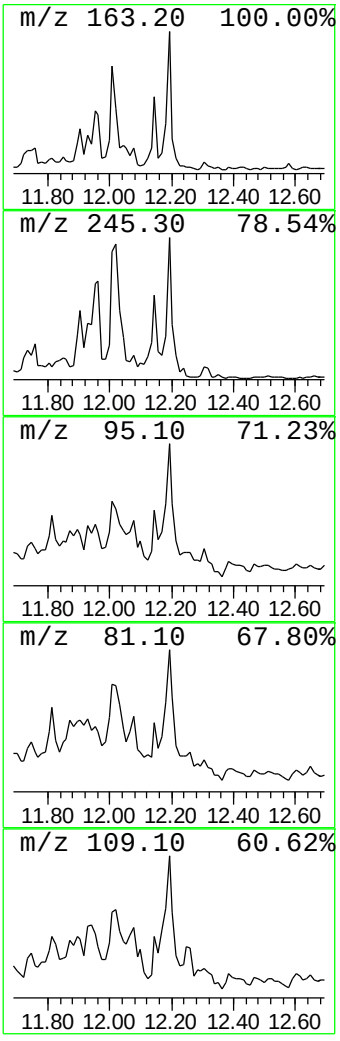
Peak Number 14 unknown12.19 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	175.86 ng	20636700	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Resorcinol, 4-[(2-hydroxy-5-meth...	245	C12H11N3O3	021269-88-5	30
2	4(E)-Amino-3(E)-phenyl-trans-bic...	245	C16H23NO	1000132-27-1	15
3	4(a)-Amino-3(E)-phenyl-trans-bic...	245	C16H23NO	1000132-27-3	15
4	1H-Indeno[1,2-b]quinolin-11-one,...	245	C17H11NO	081828-93-5	14
5	8-[[3-[Diisopentyl)amino]-2-meth...	415	C25H41N3O2	088756-09-6	11





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Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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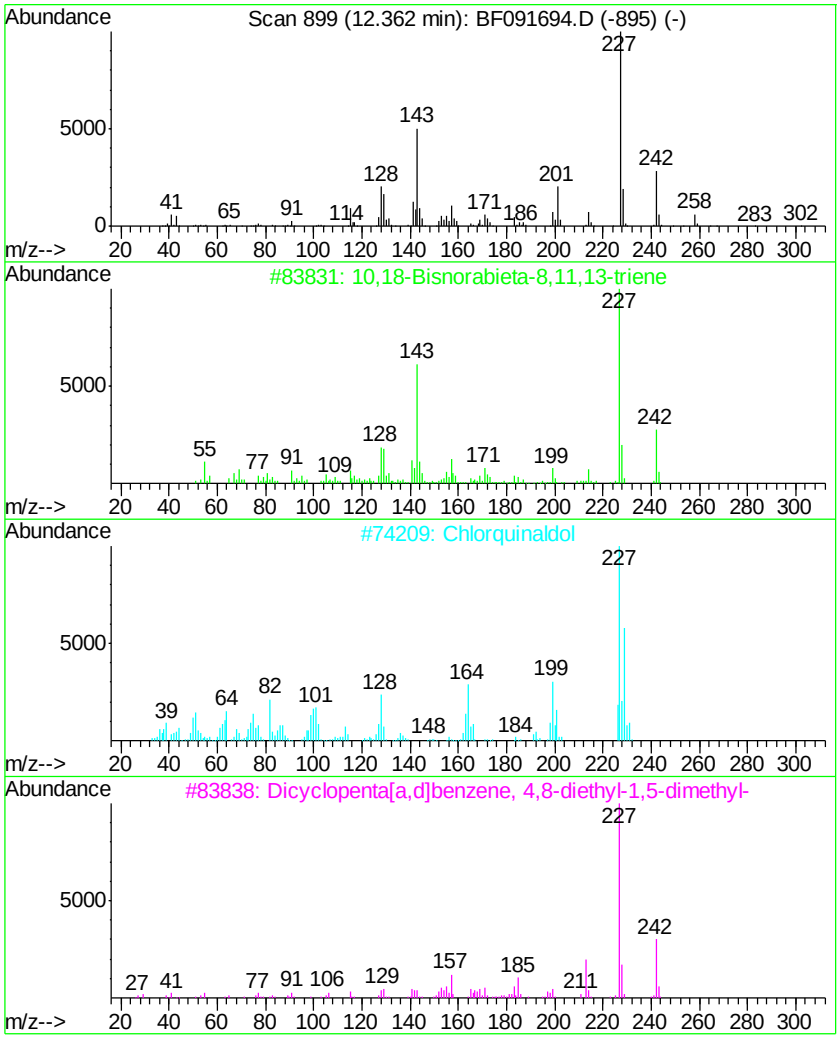
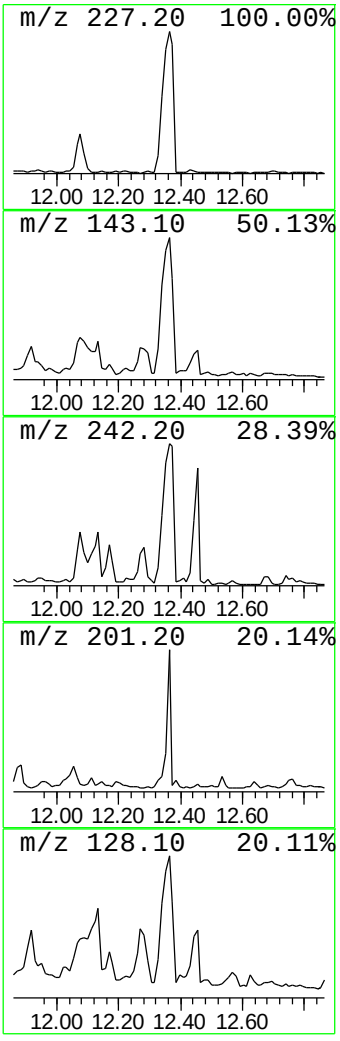
Peak Number 16 10,18-Bisnorabieta-8,11,13-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.36	185.46 ng	21763400	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10,18-Bisnorabieta-8,11,13-triene	242	C18H26	032624-67-2	93
2	Chlorquinaldol	227	C10H7Cl2NO	000072-80-0	47
3	Dicyclopenta[a,d]benzene, 4,8-di...	242	C18H26	1000156-41-6	46
4	7-Diethylamino-2-oxo-2H-chromene...	242	C14H14N2O2	332411-59-3	46
5	s-Indacene-1,7-dione, 2,3,5,6-te...	242	C16H18O2	055591-17-8	46





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Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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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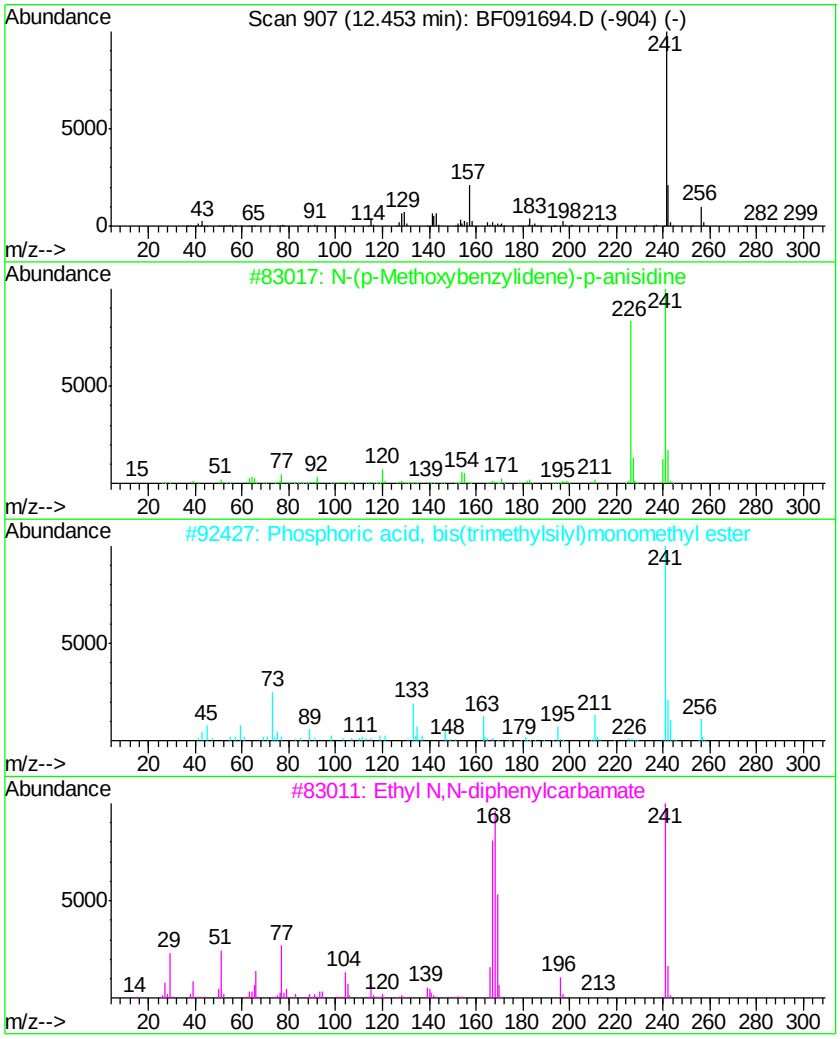
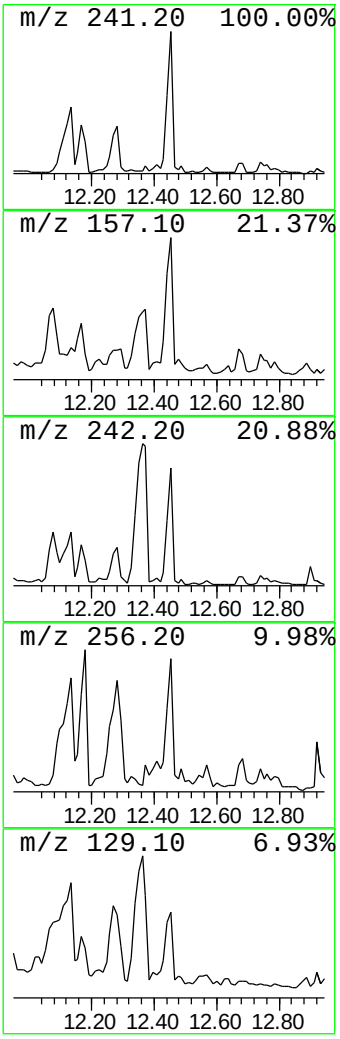
Peak Number 17 N-(p-Methoxybenzylidene)-p-... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	70.87 ng	8316860	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	N-(p-Methoxybenzylidene)-p-anisi...	241	C15H15NO2	001749-08-2	50
2	Phosphoric acid, bis(trimethylsi...	256	C7H21O4PSi2	018291-81-1	42
3	Ethyl N,N-diphenylcarbamate	241	C15H15NO2	000603-52-1	38
4	4-Hydroxy-4'-nitrostilbene	241	C14H11NO3	019221-08-0	38
5	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	301643-35-6	38





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Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

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

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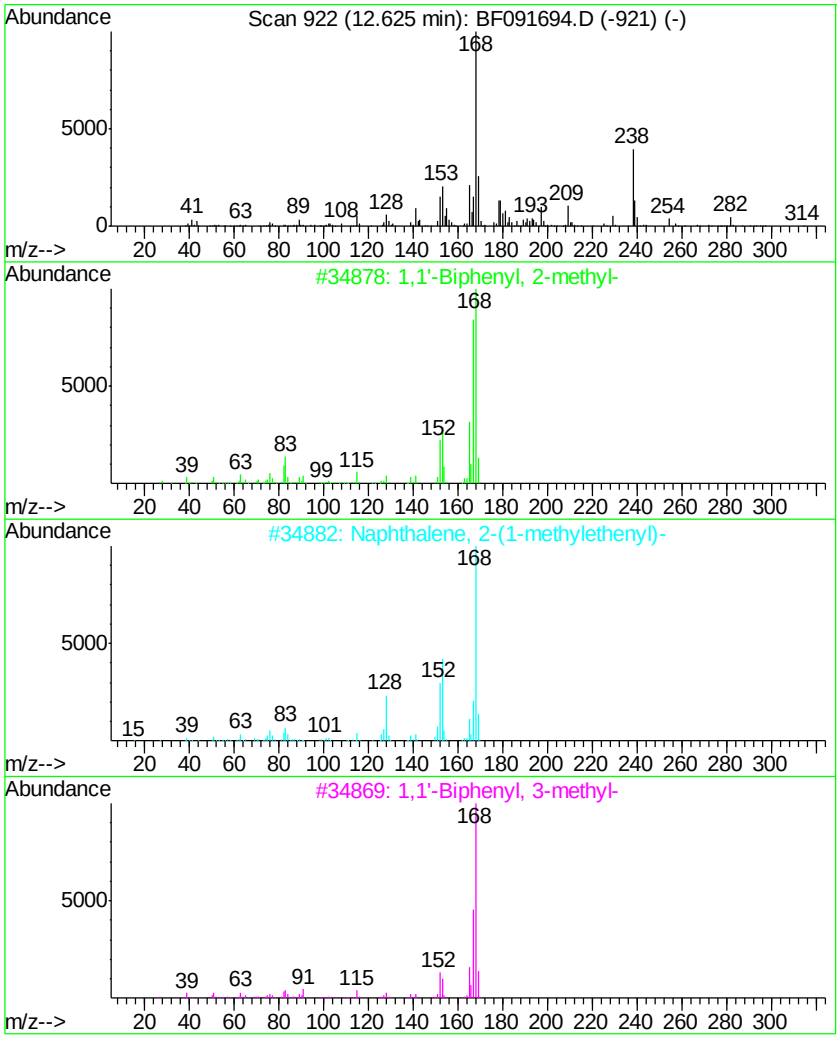
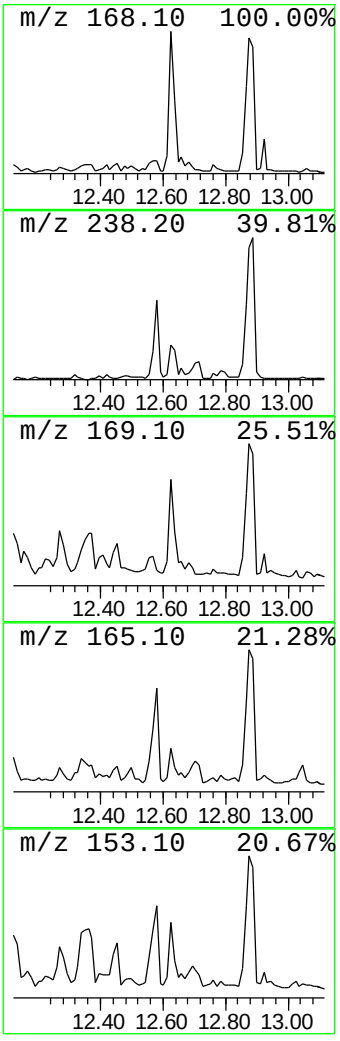
Peak Number 18 unknown12.62 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.62	90.46 ng	4404570	Chrysene-d12	13.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	38
2	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	38
3	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	38
4	Pyridine, 2-(phenylmethyl)-	169	C12H11N	000101-82-6	35
5	Pyridine, 3-methyl-2-phenyl-	169	C12H11N	010273-90-2	35





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Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

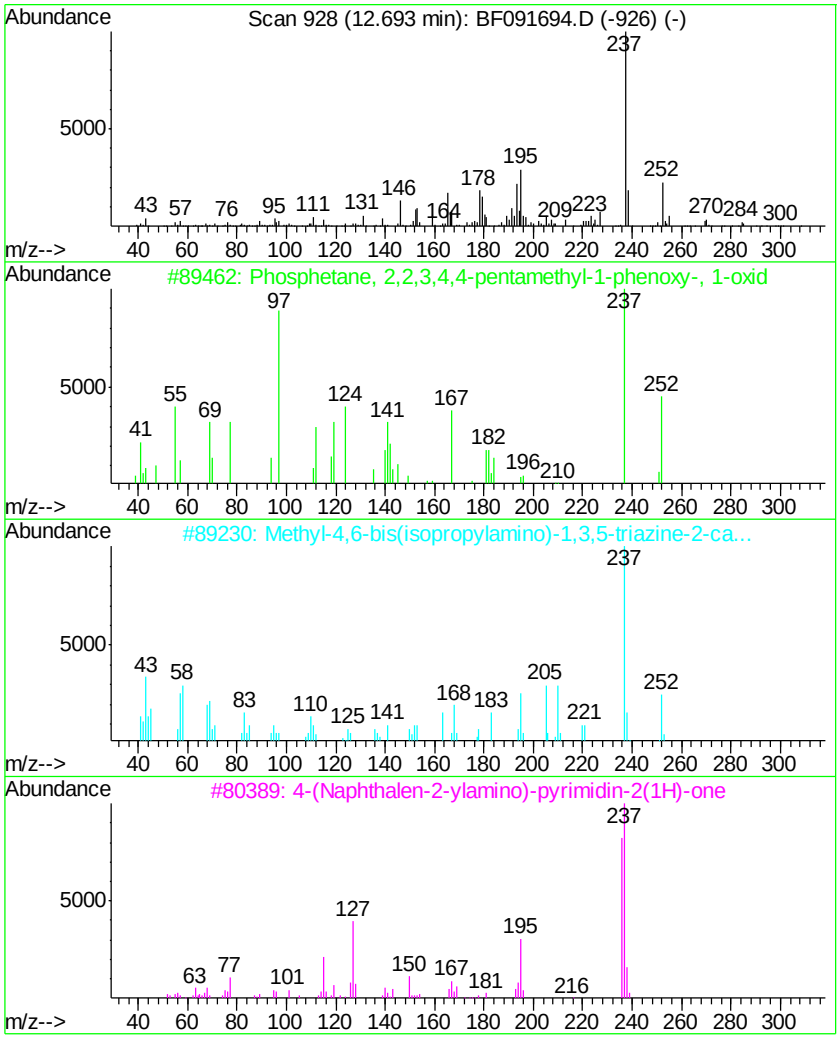
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

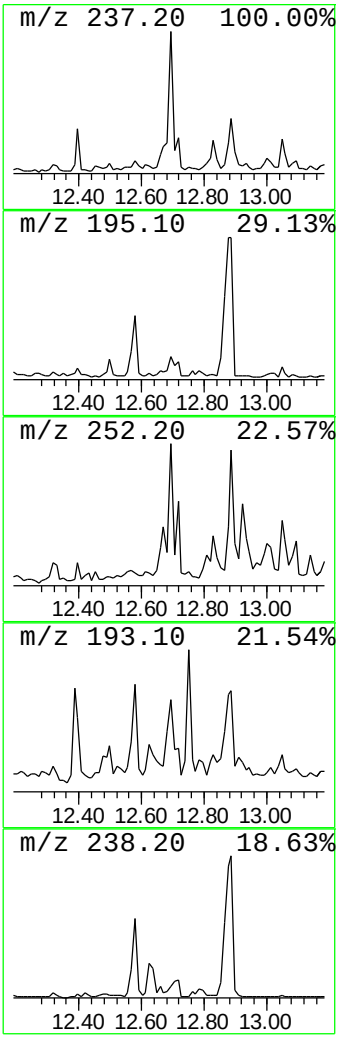
****

Peak Number 19 Phosphetane, 2,2,3,4,4-pent... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.69	65.90 ng	3208670	Chrysene-d12	13.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phosphetane, 2,2,3,4,4-pentameth...	252	C14H21O2P	050517-26-5	95
2	Methyl-4,6-bis(isopropylamino)-1...	252	C11H20N6O	300587-35-3	76
3	4-(Naphthalen-2-ylamino)-pyrimid...	237	C14H11N3O	127970-28-9	50
4	p,p-Bis(1-aziridinyl)-N-(p-tolyl...	237	C11H16N3OP	027824-40-4	49
5	2-t-Butylxanthen-9-one	252	C17H16O2	040305-52-0	47





Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

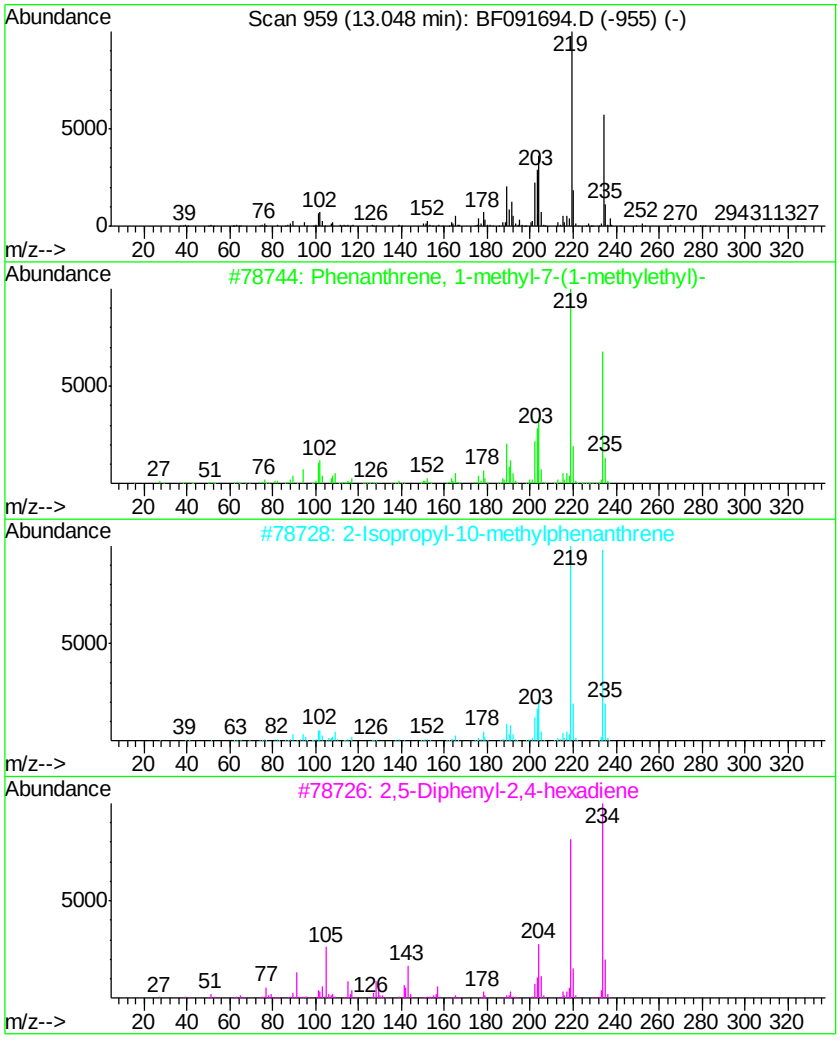
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

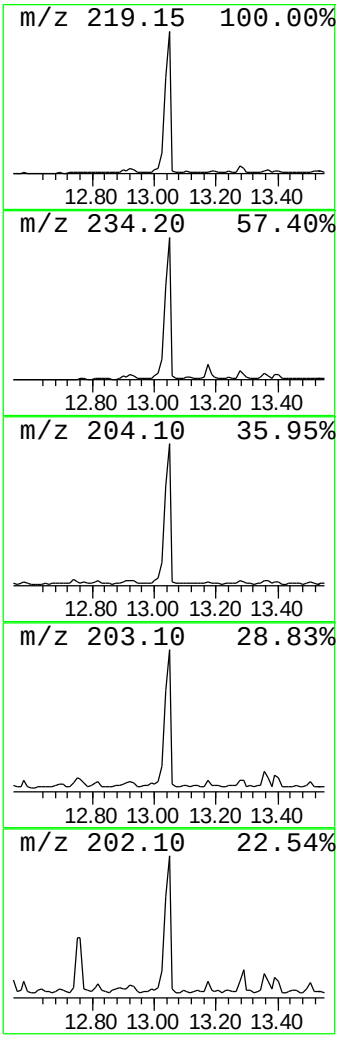
****

Peak Number 20 Phenanthrene, 1-methyl-7-(1... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.05	176.02 ng	8570120	Chrysene-d12	13.94

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	98
2	2-Isopropyl-10-methylphenanthrene	234	C18H18	066552-97-4	96
3	2,5-Diphenyl-2,4-hexadiene	234	C18H18	016819-47-9	72
4	Phenanthrene, 2,4,5,7-tetramethyl-	234	C18H18	007396-38-5	68
5	Phenol, 2,6-bis(1,1-dimethylethy...	234	C16H26O	004130-42-1	49





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121616\
Data File : BF091694.D
Acq On : 17 Dec 2016 1:08
Operator : UM/SJ
Sample : H6125-05
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-45(8-9)-12-14-16

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF120916.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
Hexacosane	10.76	89.7	ng	10520600	4	11.31	2346920	20.0
3-Carboethoxy-6,8...	11.46	53.9	ng	6320880	4	11.31	2346920	20.0
unknown11.58	11.58	99.0	ng	11616000	4	11.31	2346920	20.0
Acetaldehyde, phe...	11.62	77.4	ng	9082590	4	11.31	2346920	20.0
4b,8-Dimethyl-2-i...	11.72	130.8	ng	15350100	4	11.31	2346920	20.0
unknown11.74	11.74	60.6	ng	7113580	4	11.31	2346920	20.0
unknown11.81	11.81	93.2	ng	10933400	4	11.31	2346920	20.0
unknown11.87	11.87	120.9	ng	14190600	4	11.31	2346920	20.0
unknown11.92	11.92	159.6	ng	18726600	4	11.31	2346920	20.0
2,6-Di(2-thienyl)...	12.02	165.8	ng	19455800	4	11.31	2346920	20.0
Dicyclopenta[a,d]...	12.08	139.2	ng	16336600	4	11.31	2346920	20.0
unknown12.13	12.13	202.1	ng	23719200	4	11.31	2346920	20.0
unknown12.19	12.19	175.9	ng	20636700	4	11.31	2346920	20.0
10,18-Bisnorabiet...	12.36	185.5	ng	21763400	4	11.31	2346920	20.0
N-(p-Methoxybenzy...	12.45	70.9	ng	8316860	4	11.31	2346920	20.0
unknown12.62	12.62	90.5	ng	4404570	5	13.94	973778	20.0
Phosphetane, 2,2,...	12.69	65.9	ng	3208670	5	13.94	973778	20.0
Phenanthrene, 1-m...	13.05	176.0	ng	8570120	5	13.94	973778	20.0