LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

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-BF063016.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	1.644	3	5	14	rVB	57469	122507	9.39%	0.600%
2	1.770	14	16	20	rBV	433182	606659	46.49%	2.973%
3	4.810	278	282	289	rVV	135567	249669	19.13%	1.224%
4	5.199	314	316	319	rBV2	24446	46652	3.57%	0.229%
5	5.267	319	322	324	rBV	922521	1229486	94.21%	6.026%
6	5.473	336	340	342	rBV	23285	31711	2.43%	0.155%
7	5.656	354	356	358	rBB	22875	24982	1.91%	0.122%
8	6.159	398	400	401	rBV	20852	29242	2.24%	0.143%
9	6.262	407	409	411	rBV	55216	49012	3.76%	0.240%
10	6.319	411	414	417	rBV	983166	1265447	96.97%	6.202%
11	6.433	422	424	427	rVV	971435	1262663	96.75%	6.189%
12	6.490	427	429	433	rVB2	73470	78943	6.05%	0.387%
13	6.662	442	444	446	rBV	316551	309038	23.68%	1.515%
14	6.730	448	450	454	rVV2	22812	33967	2.60%	0.166%
15	6.822	456	458	460	rVV	1182555	988475	75.74%	4.845%
16	6.947	462	469	471	rBV4	45849	83325	6.38%	0.408%
17	6.993	471	473	474	rVV	70636	58376	4.47%	0.286%
18	7.142	484	486	487	rVV	69626	61514	4.71%	0.301%
19	7.233	490	494	496	rVV	779855	769209	58.94%	3.770%
20	7.450	510	513	514	rBV	30180	38676	2.96%	0.190%
21	7.473	514	515	517	rVB	63888	44921	3.44%	0.220%
22	7.690	532	534	536	rBV2	40135	72437	5.55%	0.355%
23	7.770	539	541	543	rVB2	13261	22894	1.75%	0.112%
24	7.953	555	557	558	rVV	515216	440971	33.79%	2.161%
25	7.976	558	559	563	rVB2	48659	46621	3.57%	0.228%
26	8.662	617	619	622	rVV	39245	34634	2.65%	0.170%
27	8.765	626	628	630	rVB	24560	25980	1.99%	0.127%
28	9.028	649	651	654	rBV	1090152	1305028	100.00%	6.396%
29	9.371	679	681	684	rBV	16890	36314	2.78%	0.178%
30	9.428	684	686	689	rVV	379742	314129	24.07%	1.540%
31	9.565	696	698	700	rBV	226038	192570	14.76%	0.944%
32	9.702	708	710	712	rBV	423019	359175	27.52%	1.760%
33	10.011	736	737	739	rBV2	24230	36748	2.82%	0.180%
34	10.159	748	750	751	rVB2	41123	50990	3.91%	0.250%

LSC Area Percent Report

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Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.216	751	755	757	rBV	28654	37436	2.87%	0.183%
36	10.262	757	759	761	rVB	21205	28715	2.20%	0.141%
37	10.354	765	767	770	rVV2	30961	47642	3.65%	0.234%
38	10.434	770	774	776	rVV2	21945	36241	2.78%	0.178%
39	10.491	776	779	781	rVB	632022	571975	43.83%	2.803%
40	10.616	786	790	794	rBV3	45328	75626	5.79%	0.371%
41	10.799	804	806	807	rBV2	15944	24638	1.89%	0.121%
42	10.948	815	819	821	rBV2	30866	40437	3.10%	0.198%
43	10.994	821	823	825	rVB	25027	27006	2.07%	0.132%
44	11.074	828	830	831	rBV	41517	40399	3.10%	0.198%
45	11.176	838	839	844	rBV2	232879	430742	33.01%	2.111%
46	11.256	844	846	848	rBV	208415	173443	13.29%	0.850%
47	11.291	848	849	852	rVB3	23447	24031	1.84%	0.118%
48	11.451	858	863	866	rBV5	15521	56552	4.33%	0.277%
49	11.508	866	868	870	rVB3	27417	46512	3.56%	0.228%
50	11.679	881	883	885	rBV	81863	117562	9.01%	0.576%
51	11.714	885	886	888	rVB	140027	101728	7.80%	0.499%
52	11.759	888	890	891	rBV	109011	91403	7.00%	0.448%
53	11.794	891	893	898	rVB	165371	290251	22.24%	1.423%
54	11.874	898	900	901	rBV	17879	24674	1.89%	0.121%
55	11.919	901	904	905	rVB2	31972	41222	3.16%	0.202%
56	11.977	905	909	910	rBV3	63539	91216	6.99%	0.447%
57	11.999	910	911	915	rVB2	48456	59668	4.57%	0.292%
58	12.079	915	918	919	rBV3	16415	35762	2.74%	0.175%
59	12.125	919	922	924	rBV3	42444	74635	5.72%	0.366%
60	12.159	924	925	929	rVB	84161	118803	9.10%	0.582%
61	12.239	929	932	933	rBV	147510	226970	17.39%	1.112%
62	12.274	933	935	937	rVV	61814	109885	8.42%	0.539%
63	12.319	937	939	941	rVB2	98951	124032	9.50%	0.608%
64	12.388	943	945	947	rBV	380237	379441	29.08%	1.860%
65	12.445	947	950	952	rBV2	34308	67531	5.17%	0.331%
66	12.479	952	953	955	rVB	62085	68979	5.29%	0.338%
67	12.525	955	957	959	rBV3	37262	73028	5.60%	0.358%
68	12.617	963	965	967	rBV	591067	584712	44.80%	2.866%
69	12.685	969	971	972	rVB	77381	82234	6.30%	0.403%
70	12.765	976	978	981	rVB	776106	1040715	79.75%	5.101%
71	12.845	982	985	988	rBV3	115490	217572	16.67%	1.066%

LSC Area Percent Report

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Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

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-BF063016.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.891	988	989	990	rBV	19543	25403	1.95%	0.125%
73	12.948	990	994	996	rVB2	119685	232375	17.81%	1.139%
74	13.017	996	1000	1001	rBV2	69649	110578	8.47%	0.542%
75	13.051	1001	1003	1005	rBV	185867	165714	12.70%	0.812%
76	13.142	1009	1011	1012	rBV	159391	128399	9.84%	0.629%
77	13.177	1012	1014	1015	rVB	101906	122427	9.38%	0.600%
78	13.211	1015	1017	1019	rVB2	33608	32985	2.53%	0.162%
79	13.257	1019	1021	1023	rBV2	24591	34335	2.63%	0.168%
80	13.314	1024	1026	1027	rBV	25666	33365	2.56%	0.164%
81	13.451	1036	1038	1041	rVB	100735	115727	8.87%	0.567%
82	13.520	1041	1044	1045	rBV	37433	47885	3.67%	0.235%
83	13.554	1045	1047	1051	rBV4	95212	213534	16.36%	1.047%
84	13.680	1055	1058	1061	rVB4	63672	175706	13.46%	0.861%
85	13.805	1066	1069	1071	rBV2	434416	737229	56.49%	3.613%
86	13.897	1076	1077	1080	rBV3	30915	72375	5.55%	0.355%
87	13.954	1080	1082	1088	rVB4	51408	123702	9.48%	0.606%
88	14.160	1099	1100	1101	rBV	38487	46977	3.60%	0.230%
89	14.205	1101	1104	1105	rVV	115811	177369	13.59%	0.869%
90	14.228	1105	1106	1108	rVB	56032	76387	5.85%	0.374%
91	14.320	1113	1114	1118	rVB2	80628	123397	9.46%	0.605%
92	14.605	1137	1139	1141	rVB	47238	59175	4.53%	0.290%
93	14.663	1141	1144	1148	rBV3	46395	126292	9.68%	0.619%
94	14.811	1154	1157	1162	rBV	225252	397001	30.42%	1.946%
95	14.903	1163	1165	1167	rVV	69588	68994	5.29%	0.338%
96	15.074	1178	1180	1183	rVB	147520	187975	14.40%	0.921%
97	15.131	1183	1185	1187	rBV	198575	216947	16.62%	1.063%
98	15.188	1187	1190	1191	rBV	161031	202014	15.48%	0.990%
99	16.468	1299	1302	1306	rVB2	82338	154485	11.84%	0.757%
100	16.857	1333	1336	1342	rVB	83306	188090	14.41%	0.922%

Sum of corrected areas: 20403225

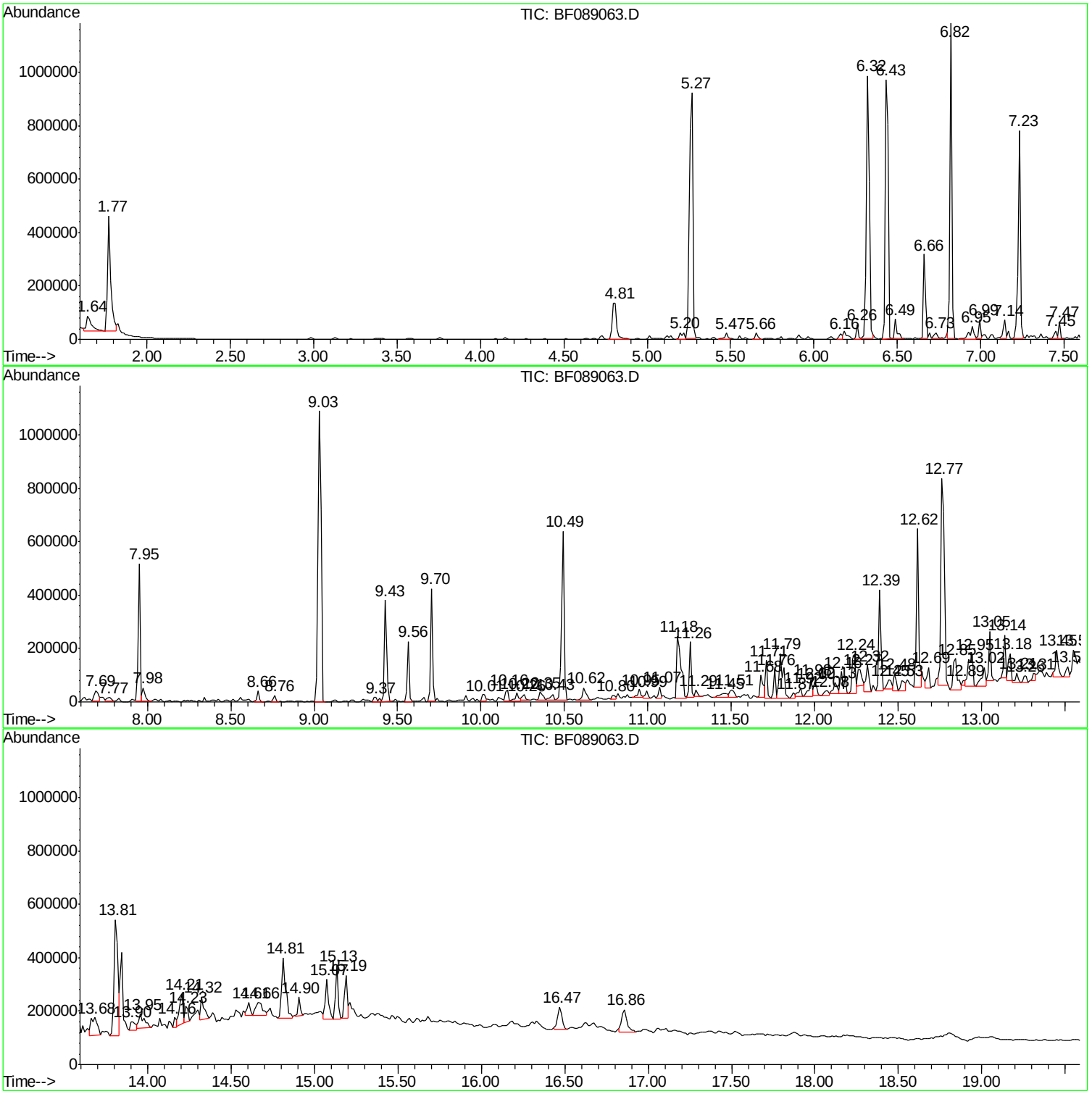
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
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Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

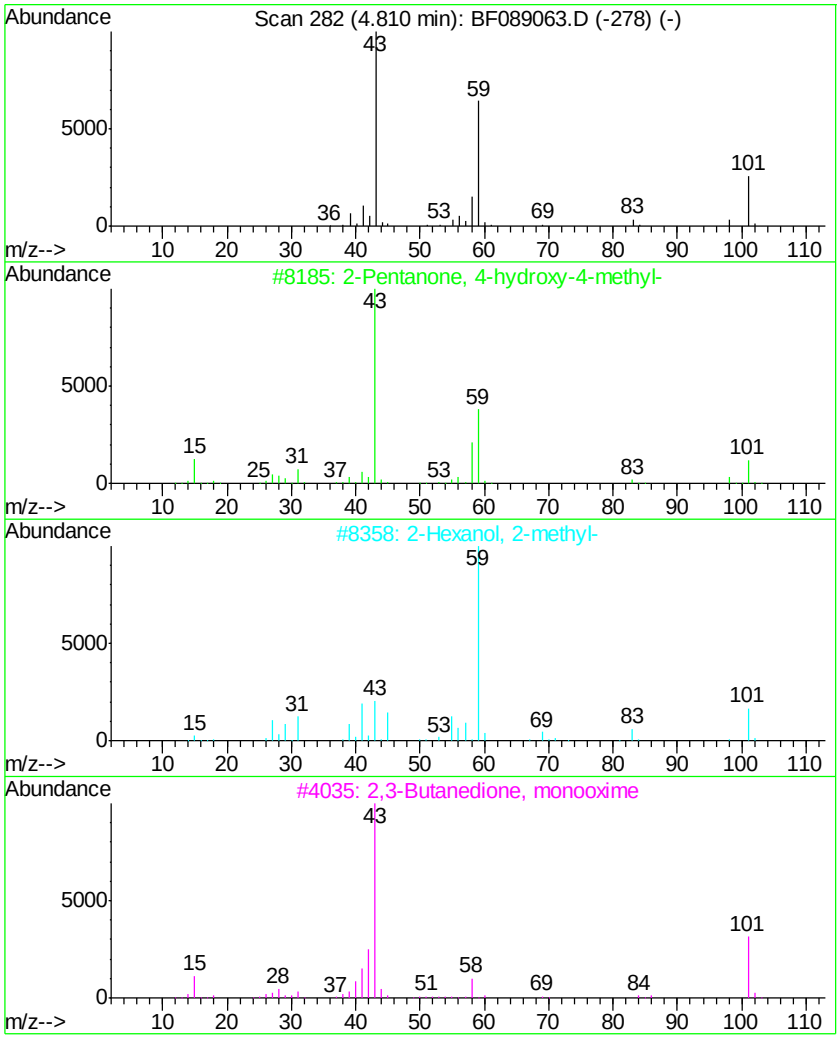
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

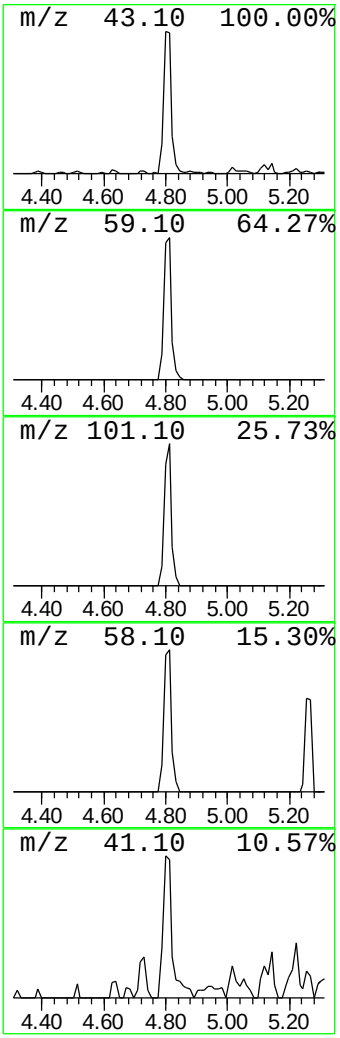
****

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.81	16.16 ng	249669	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	25
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
5	3-Hydroxy-3-methyl-2-butanone	102	C5H10O2	000115-22-0	12





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

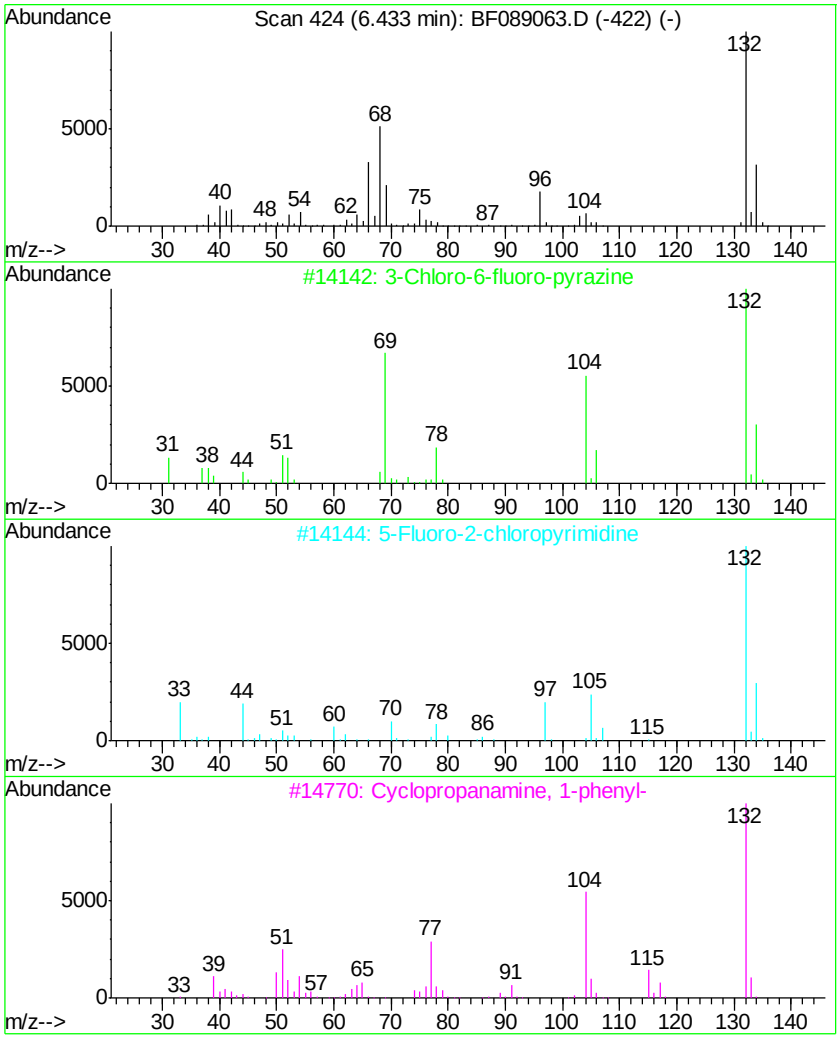
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

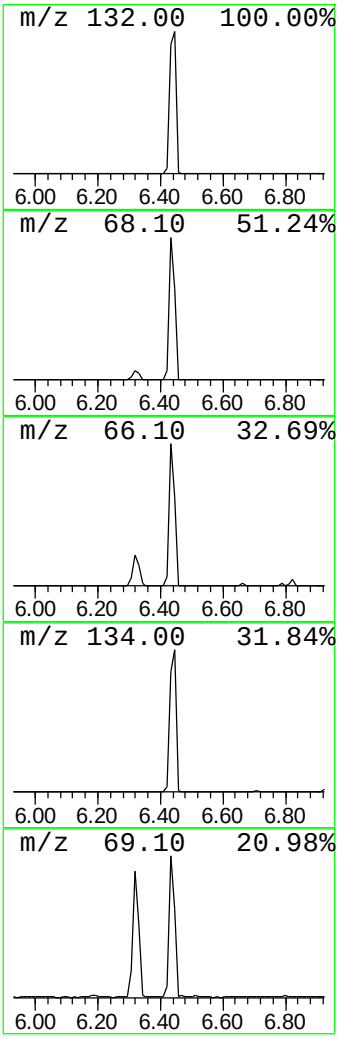
****

Peak Number 4 unknown6.43 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.43	81.72 ng	1262660	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3	Cyclopropanamine, 1-phenyl-	133	C9H11N	1000351-26-2	10
4	(5-Methyl-2-pyridyl)acetonitrile	132	C8H8N2	1000241-93-9	10
5	2-Cyclohexen-1-one	96	C6H8O	000930-68-7	10





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

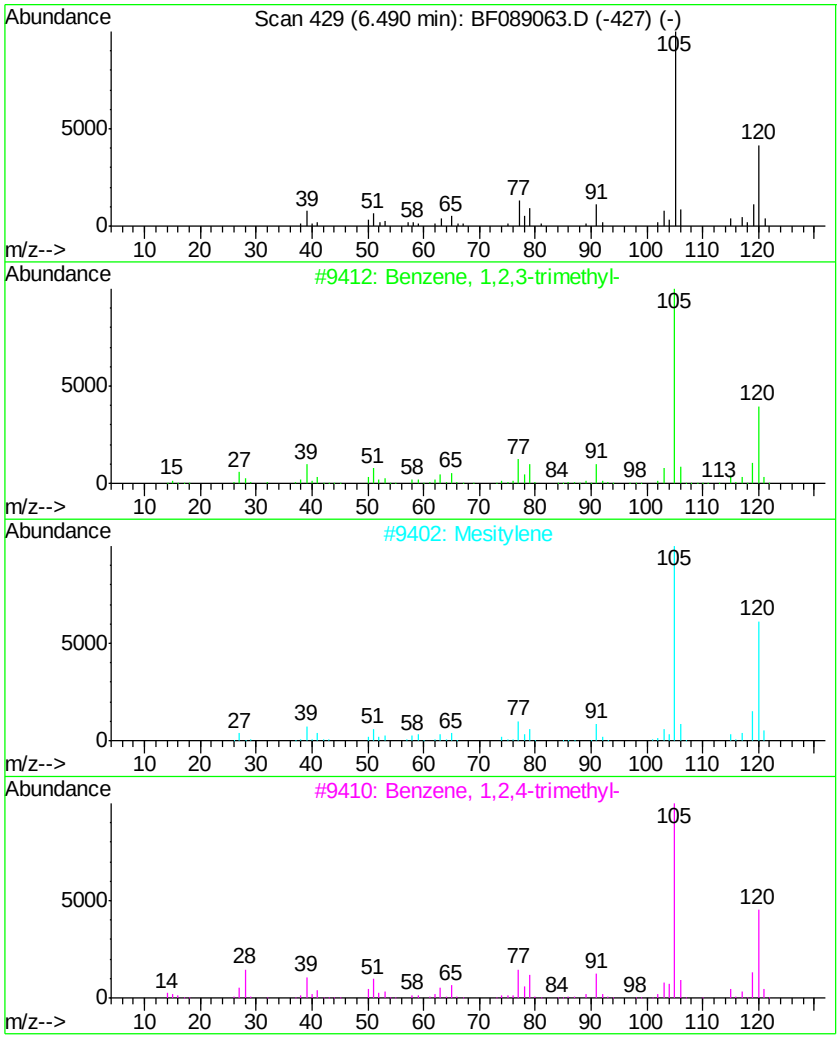
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

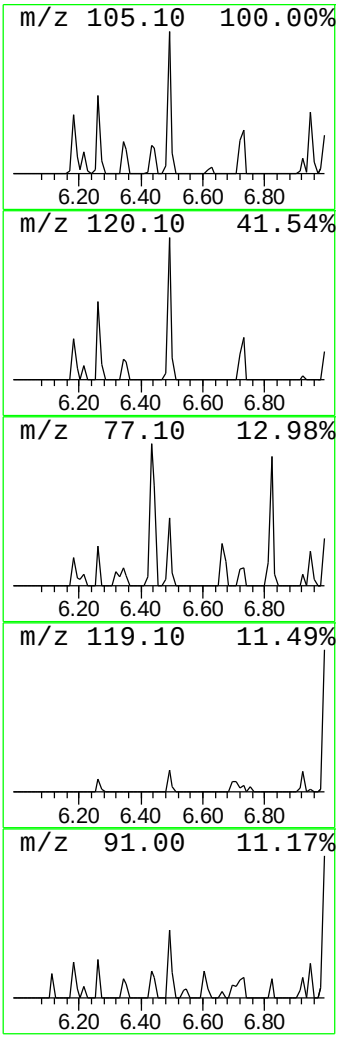
****

Peak Number 5 Benzene, 1,2,3-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.49	5.11 ng	78943	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	95
2	Mesitylene	120	C9H12	000108-67-8	95
3	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
5	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	90





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

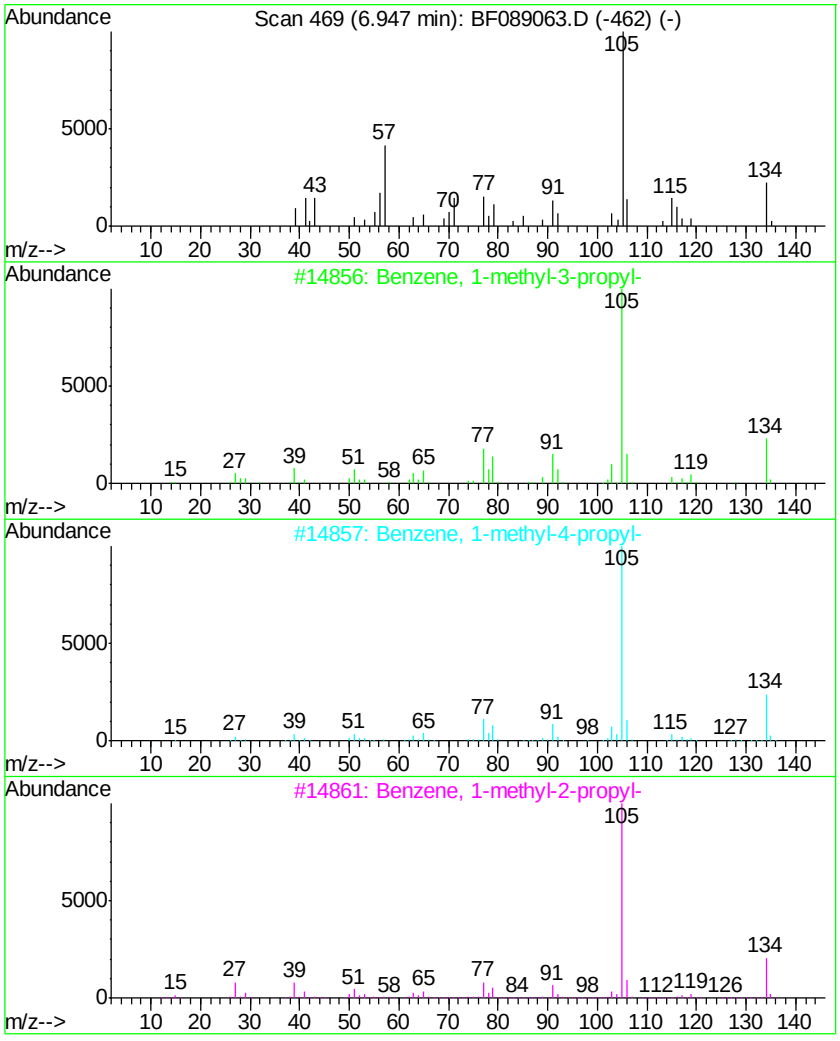
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

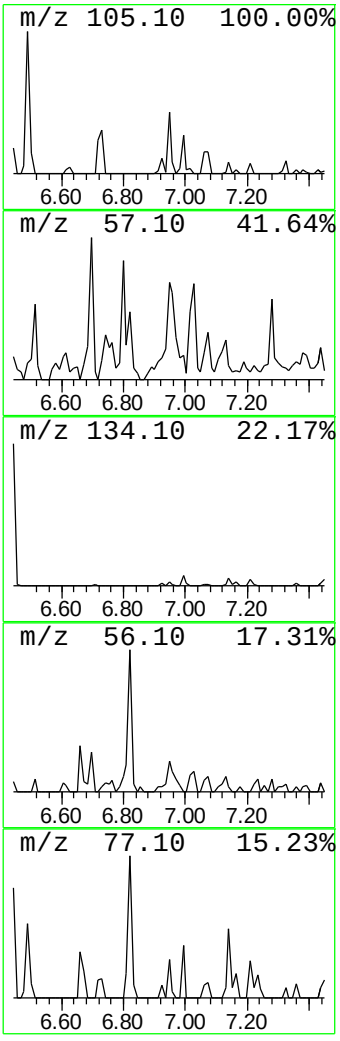
****

Peak Number 7 Benzene, 1-methyl-3-propyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.95	5.39 ng	83325	1,4-Dichlorobenzene-d4	6.66

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	93
2	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	76
3	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	68
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	68
5	2-Indanol	134	C9H10O	004254-29-9	64





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

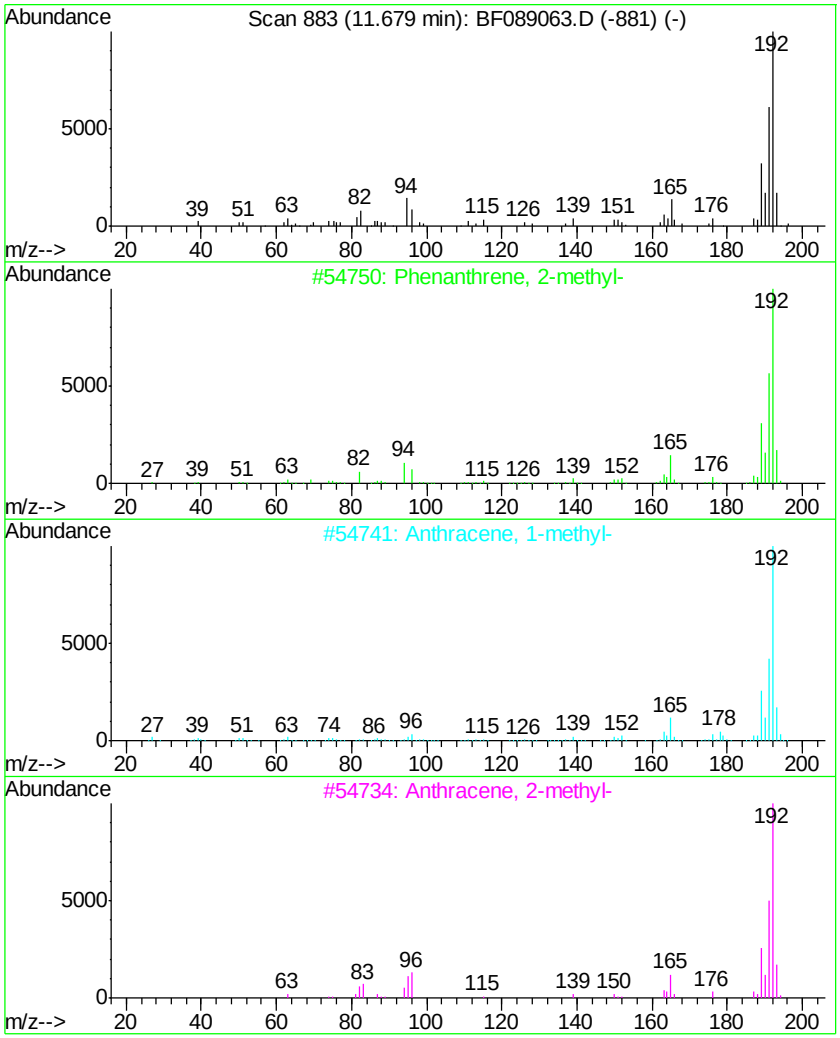
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

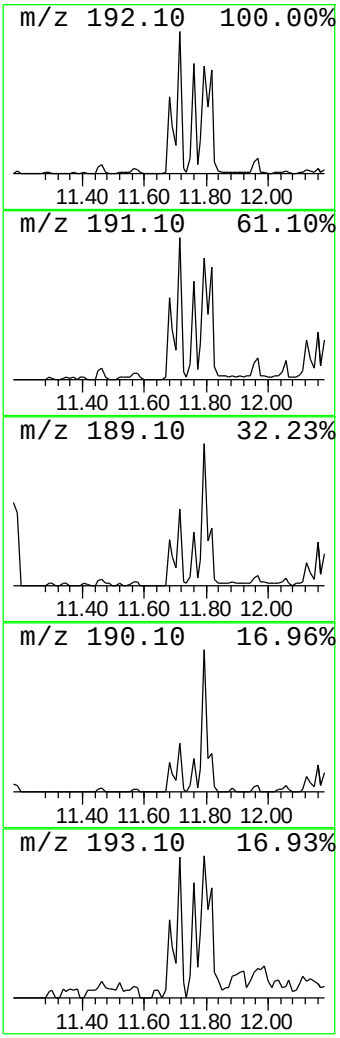
****

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.68	5.46 ng	117562	Phenanthrene-d10	11.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	89





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

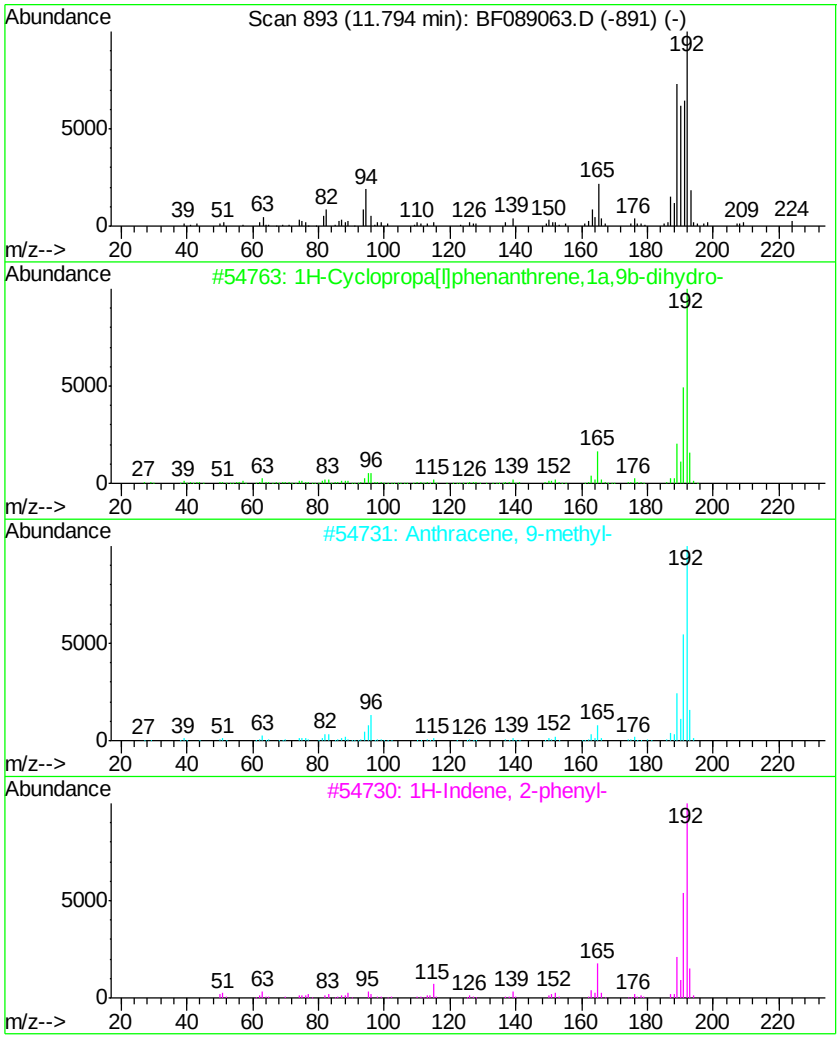
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

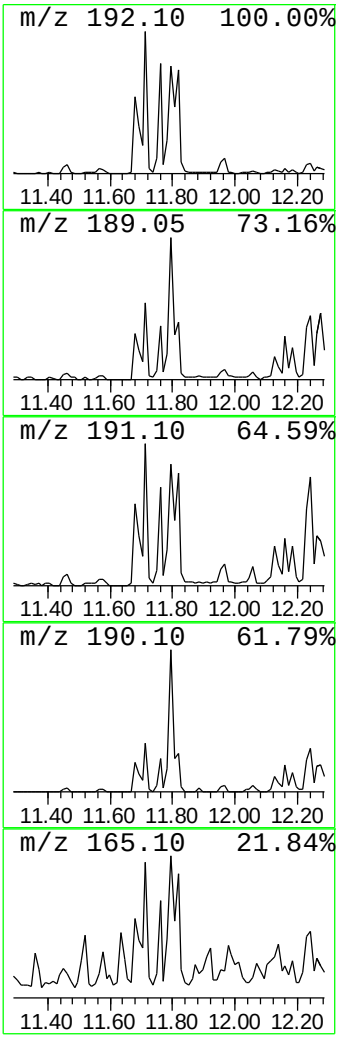
****

Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.79	13.48 ng	290251	Phenanthrene-d10	11.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	86
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	55
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	50
4	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	50
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	50





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

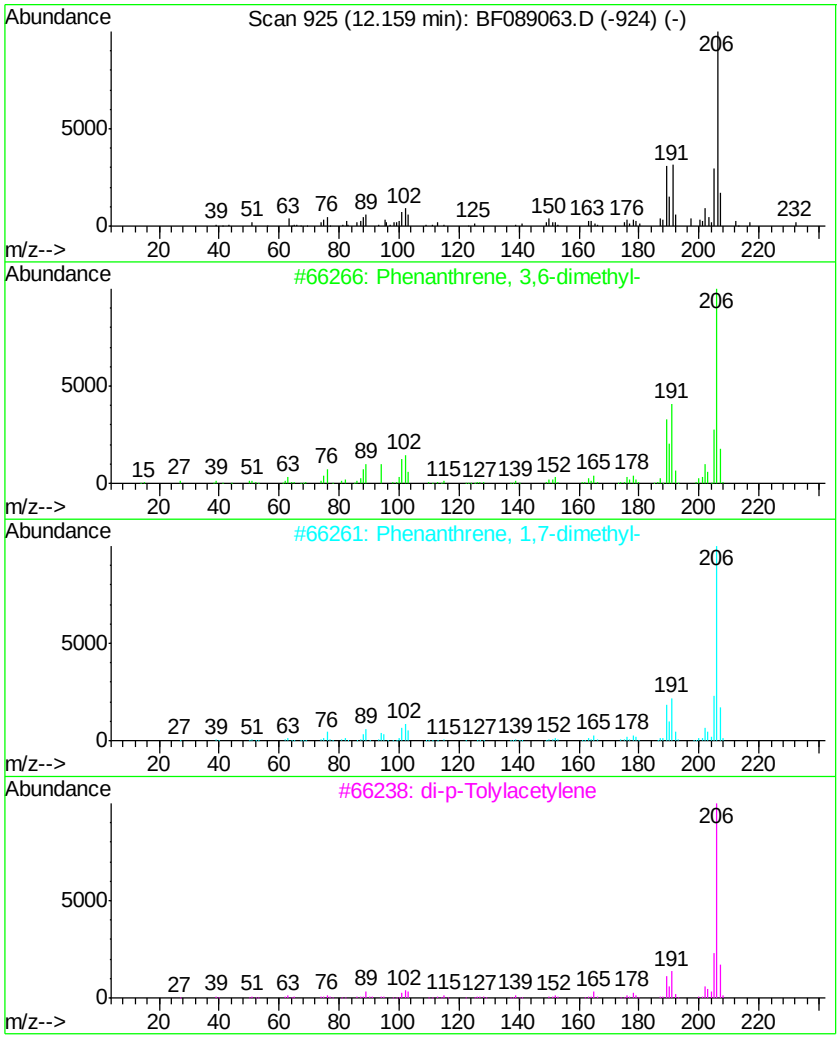
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

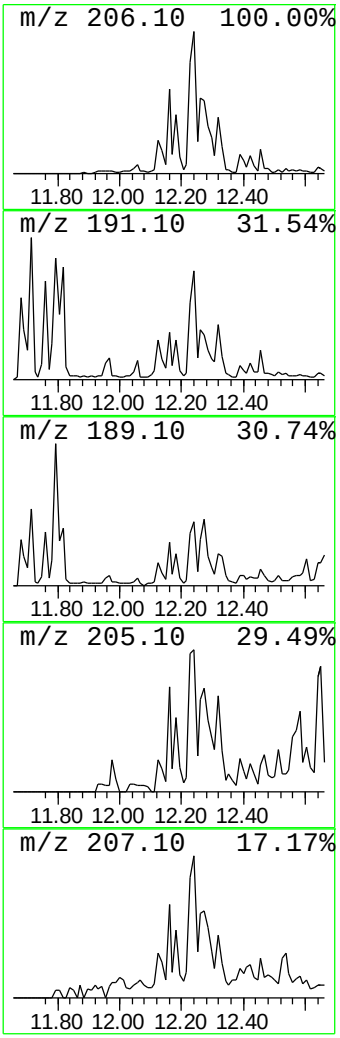
****

Peak Number 10 Phenanthrene, 3,6-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	5.52 ng	118803	Phenanthrene-d10	11.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
5	1,4-Diphenyl-1,3-butadiene	206	C16H14	000886-65-7	83





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

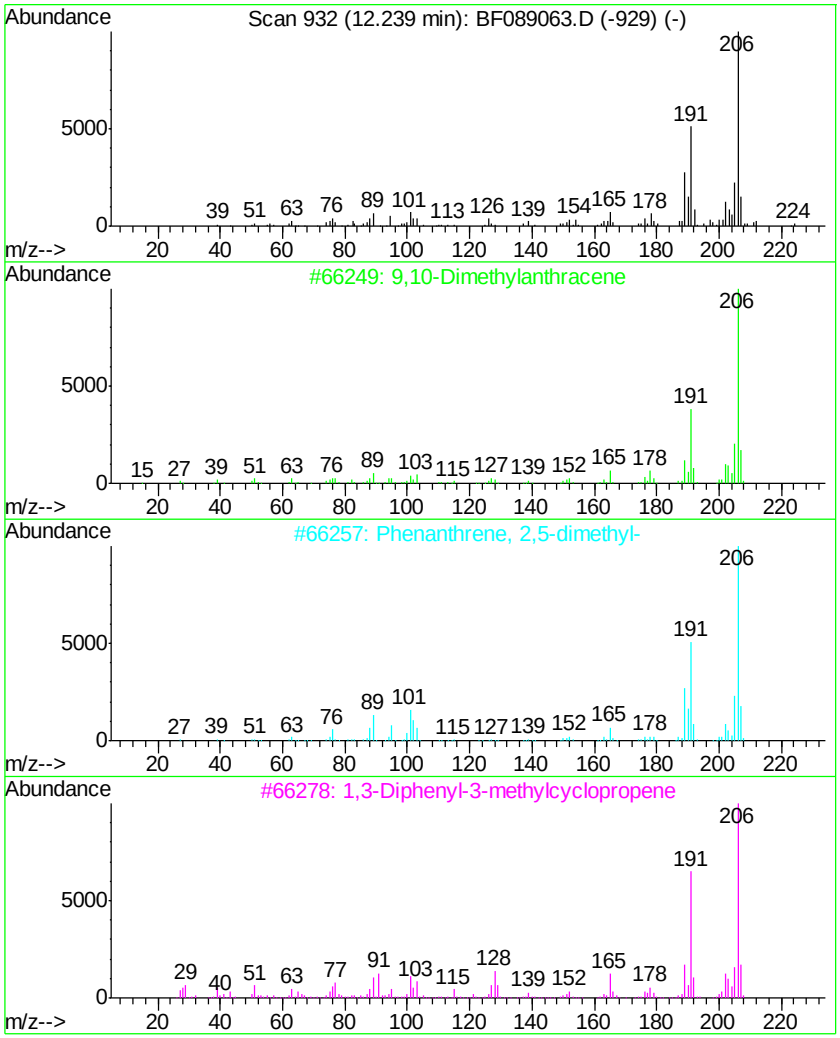
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

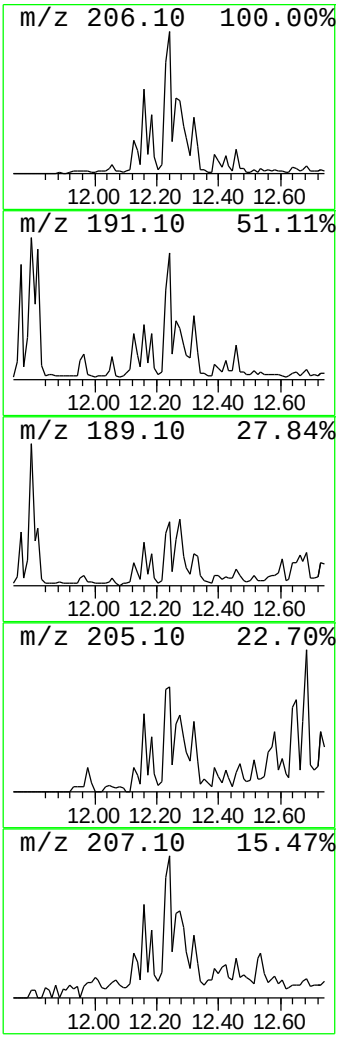
****

Peak Number 11 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	10.54 ng	226970	Phenanthrene-d10	11.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3	1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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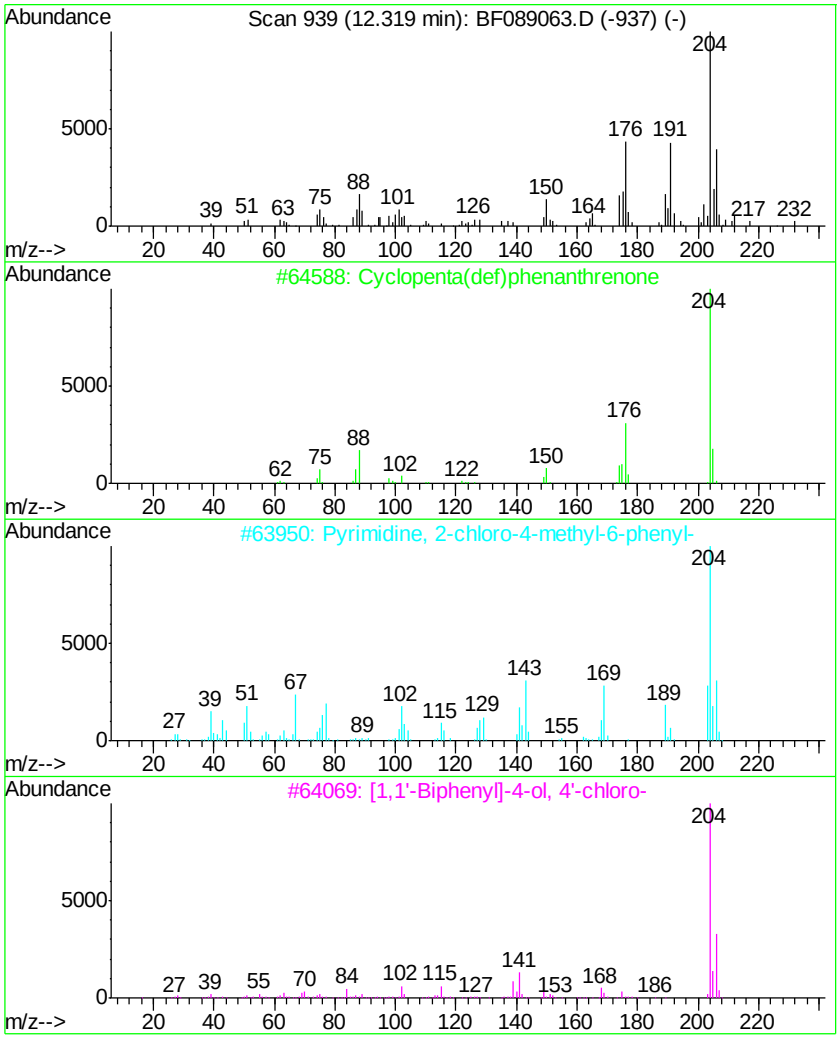
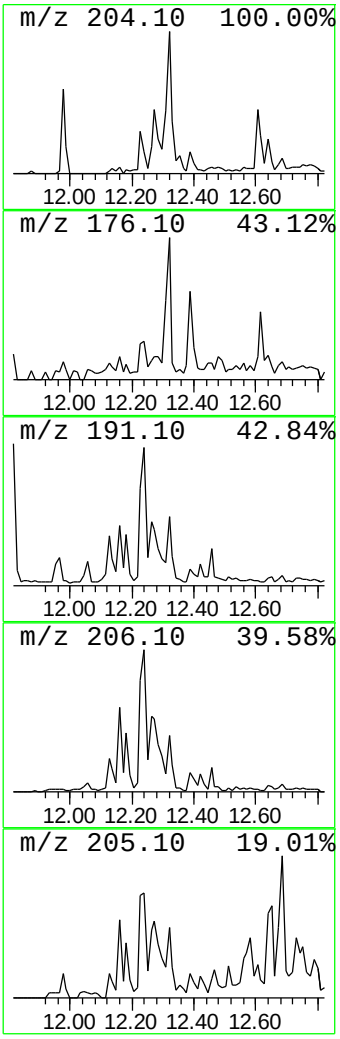
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	5.76 ng	124032	Phenanthrene-d10	11.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	89
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	43
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	43
4	[1,1'-Biphenyl-4-ol], 2-chloro-	204	C12H9ClO	023719-22-4	43
5	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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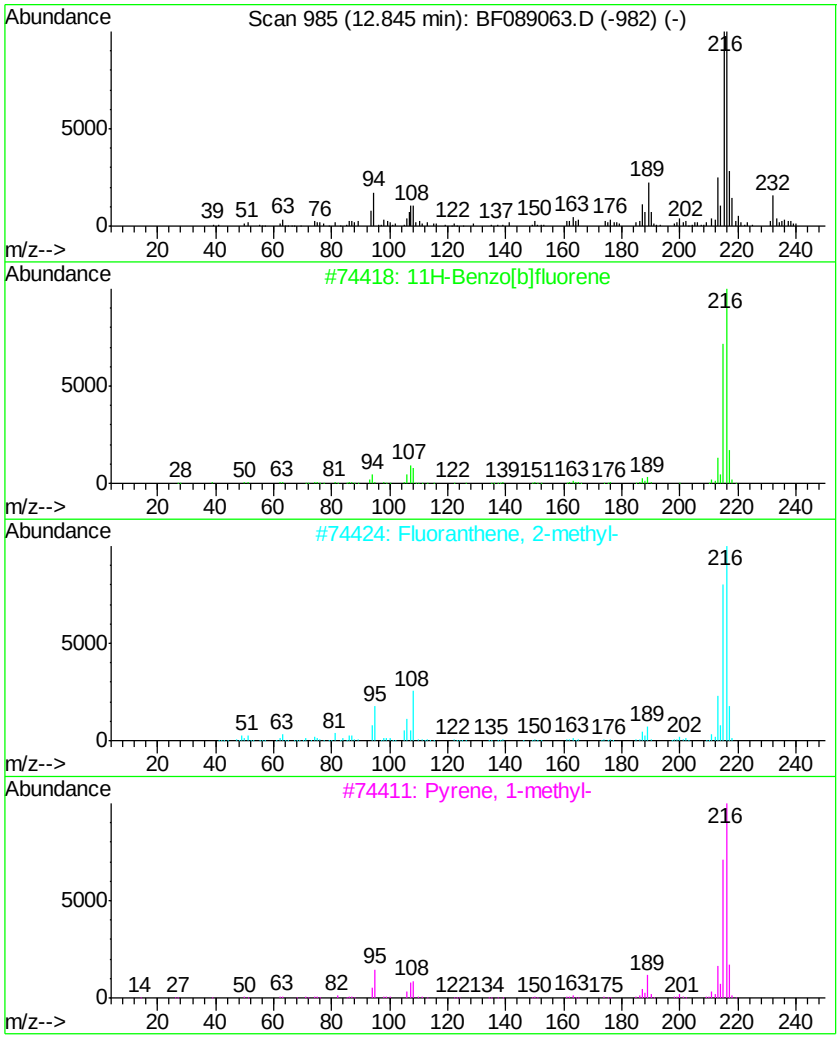
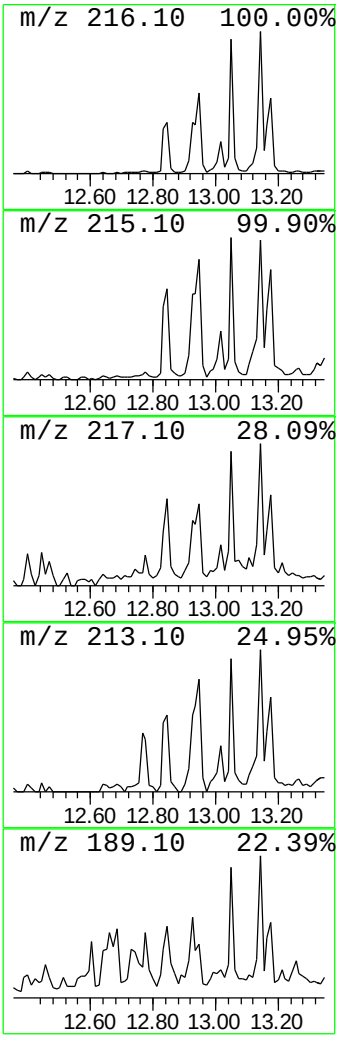
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.85	5.90 ng	217572	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	76
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	59
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	55





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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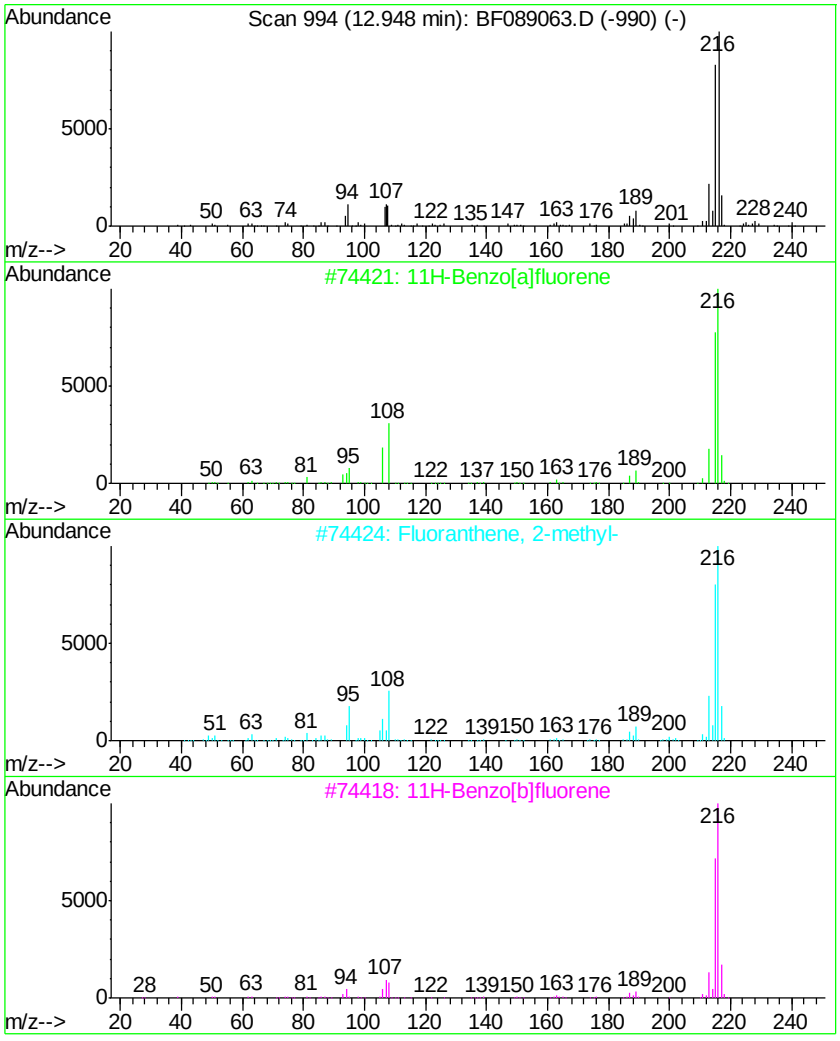
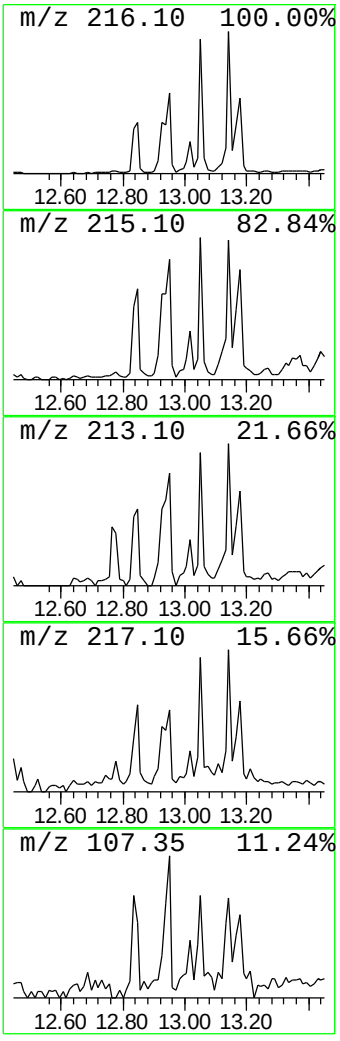
Peak Number 15 11H-Benzo[a]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.95	6.30 ng	232375	Chrysene-d12	13.82

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





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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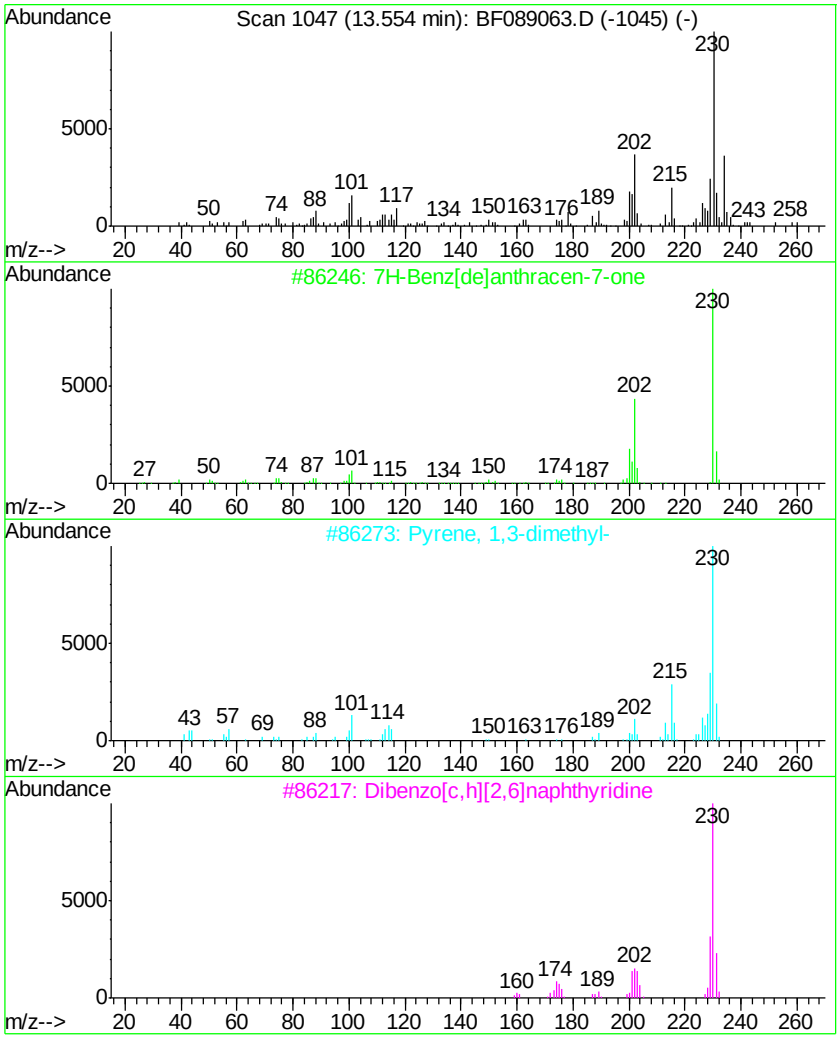
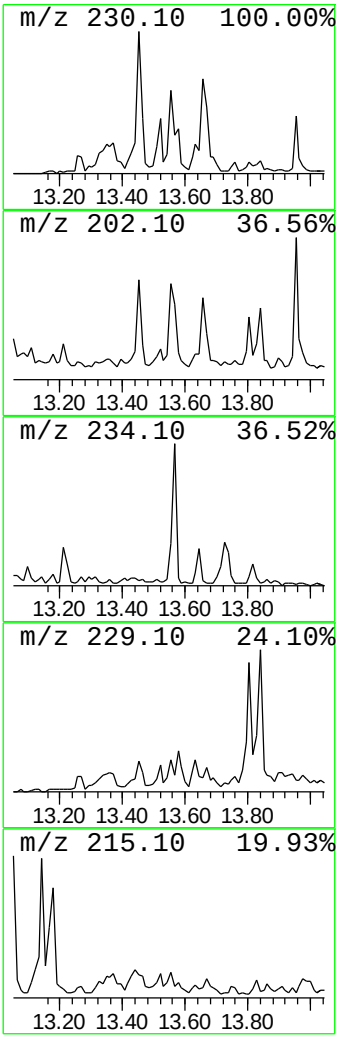
Peak Number 16 7H-Benz[de]anthracen-7-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.55	5.79 ng	213534	Chrysene-d12	13.82

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
2	Pyrene, 1,3-dimethyl-	230	C18H14	064401-21-4	68
3	Dibenzo[c,h][2,6]naphthyridine	230	C16H10N2	000218-30-4	64
4	p-Terphenyl	230	C18H14	000092-94-4	52
5	Naphthacene, 5,12-dihydro-	230	C18H14	000959-02-4	52





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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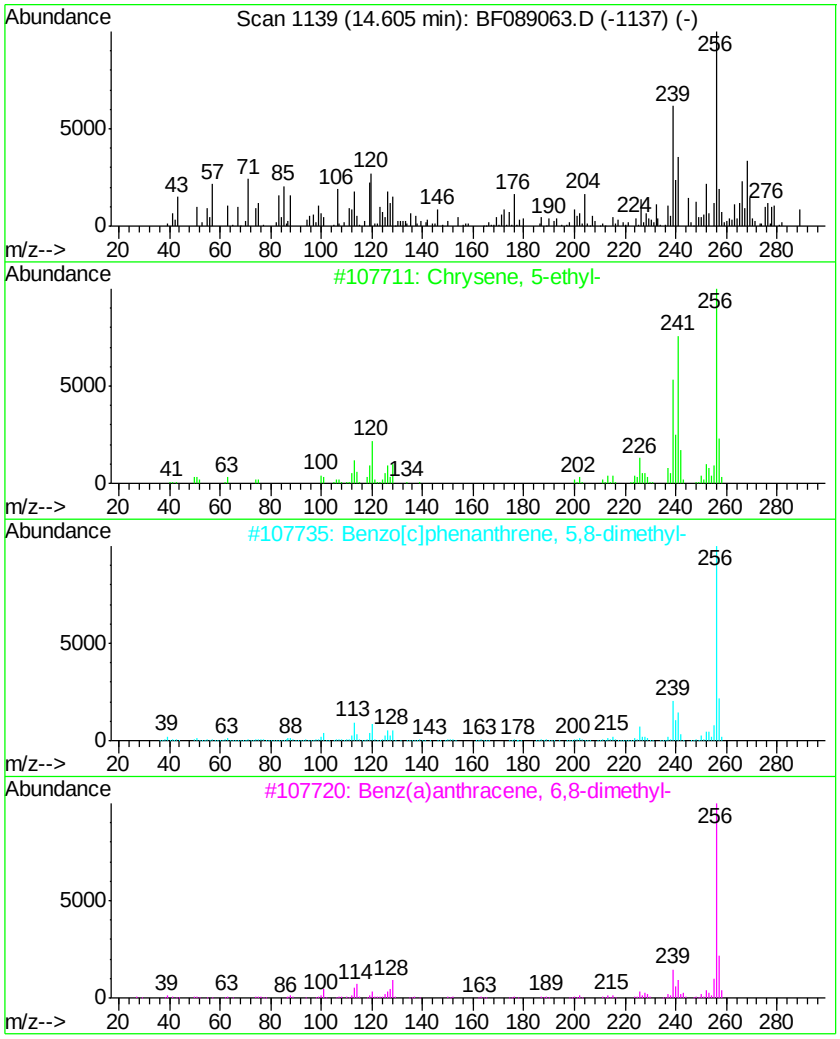
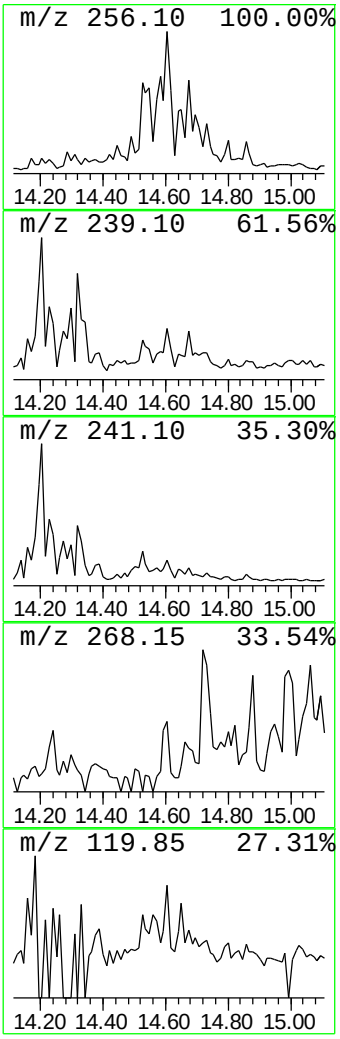
Peak Number 17 Chrysene, 5-ethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.61	5.86 ng	59175	Perylene-d12	15.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 5-ethyl-	256	C20H16	054986-62-8	89
2	Benzo[c]phenanthrene, 5,8-dimethyl-	256	C20H16	054986-63-9	78
3	Benz(a)anthracene, 6,8-dimethyl-	256	C20H16	000317-64-6	78
4	Benz[a]anthracene, 7,12-dimethyl-	256	C20H16	000057-97-6	64
5	Benz(a)anthracene, 4,7-dimethyl-	256	C20H16	035187-18-9	60





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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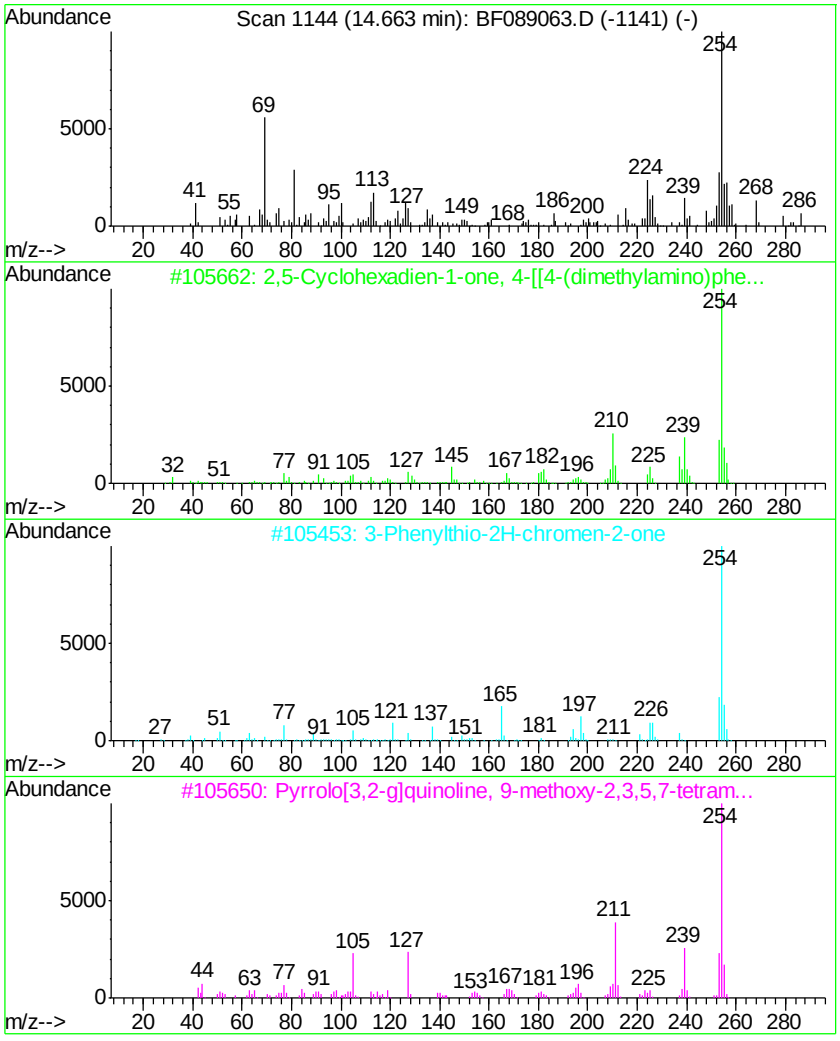
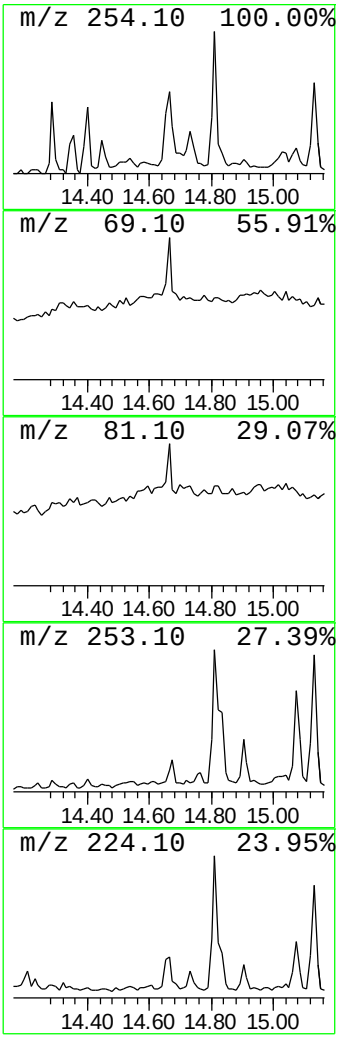
Peak Number 18 2,5-Cyclohexadien-1-one, 4-... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.66	12.50 ng	126292	Perylene-d12	15.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,5-Cyclohexadien-1-one, 4-[[4-(...	254	C16H18N2O	1000319-40-8	50
2	3-Phenylthio-2H-chromen-2-one	254	C15H10O2S	072167-95-4	47
3	Pyrrolo[3,2-g]quinoline, 9-metho...	254	C16H18N2O	199918-71-3	47
4	Ferrocene, 1,1'-dichloro-	254	C10H8Cl2Fe	001293-67-0	46
5	Chrysin	254	C15H10O4	000480-40-0	43





Data Path : Z:\HPCHEM1\BNA F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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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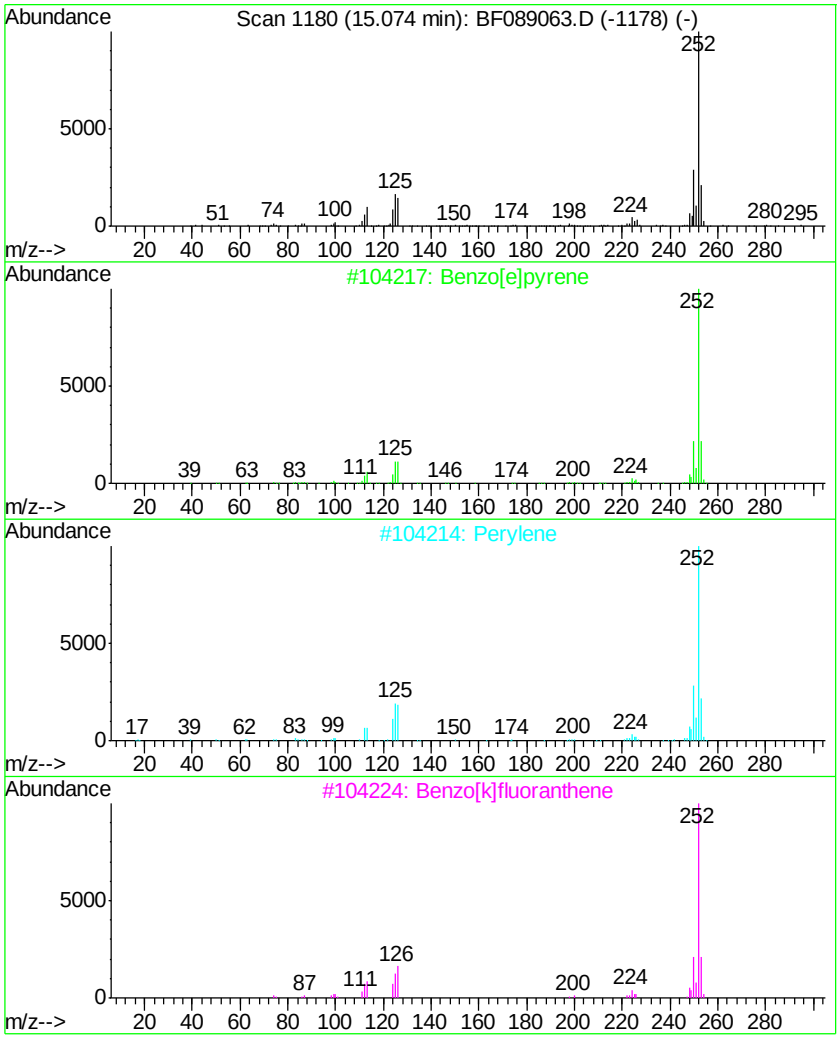
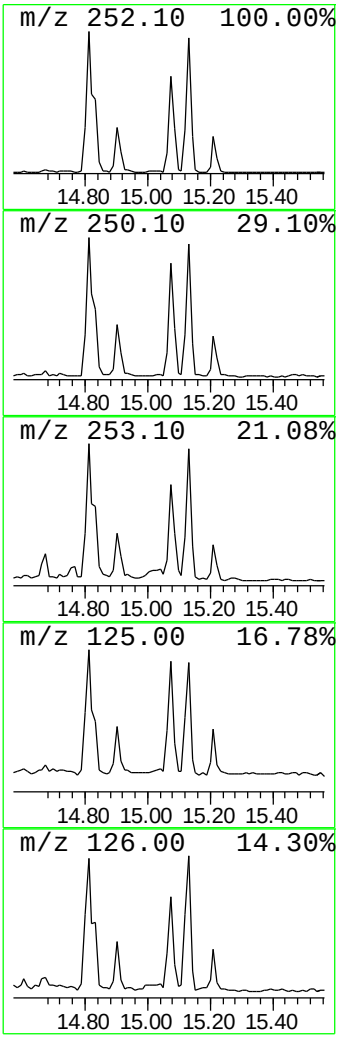
Peak Number 20 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.07	18.61 ng	187975	Perylene-d12	15.19

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	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
5	Benzo[a]pyrene	252	C20H12	000050-32-8	96





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF071616\
Data File : BF089063.D
Acq On : 16 Jul 2016 19:13
Operator : UM/SJ
Sample : H3951-12
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : LSS-SB-SB04(2-3.5ft)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF063016.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...	4.81	16.2	ng	249669	1	6.66	309038	20.0
unknown6.43	6.43	81.7	ng	1262660	1	6.66	309038	20.0
Benzene, 1,2,3-tr...	6.49	5.1	ng	78943	1	6.66	309038	20.0
Benzene, 1-methyl...	6.95	5.4	ng	83325	1	6.66	309038	20.0
Phenanthrene, 2-m...	11.68	5.5	ng	117562	4	11.18	430742	20.0
1H-Cyclopropa[l]p...	11.79	13.5	ng	290251	4	11.18	430742	20.0
Phenanthrene, 3,6...	12.16	5.5	ng	118803	4	11.18	430742	20.0
9,10-Dimethylanth...	12.24	10.5	ng	226970	4	11.18	430742	20.0
Cyclopenta(def)ph...	12.32	5.8	ng	124032	4	11.18	430742	20.0
11H-Benzo[b]fluorene	12.85	5.9	ng	217572	5	13.82	737229	20.0
11H-Benzo[a]fluorene	12.95	6.3	ng	232375	5	13.82	737229	20.0
7H-Benz[de]anthra...	13.55	5.8	ng	213534	5	13.82	737229	20.0
Chrysene, 5-ethyl-	14.61	5.9	ng	59175	6	15.19	202014	20.0
2,5-Cyclohexadien...	14.66	12.5	ng	126292	6	15.19	202014	20.0
Benzo[e]pyrene	15.07	18.6	ng	187975	6	15.19	202014	20.0