LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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	3.690	222	230	236	rBV	1282128	2024728	14.45%	1.649%
2	5.184	480	484	488	rBV	426276	434628	3.10%	0.354%
3	5.296	498	503	505	rBV	1205214	1262835	9.01%	1.029%
4	5.319	505	507	511	rVB2	720185	706175	5.04%	0.575%
5	5.554	541	547	551	rBV2	599636	917549	6.55%	0.747%
6	6.325	675	678	680	rBV	415534	366981	2.62%	0.299%
7	6.360	680	684	687	rVB2	726780	978216	6.98%	0.797%
8	6.484	702	705	710	rVB	685507	567941	4.05%	0.463%
9	6.554	713	717	719	rVV	1064644	1049110	7.49%	0.855%
10	6.578	719	721	723	rVV	918644	754184	5.38%	0.614%
11	6.719	742	745	748	rVB	850311	645229	4.60%	0.526%
12	6.878	768	772	774	rBV	496606	449019	3.20%	0.366%
13	6.984	782	790	794	rBV2	3558204	4521450	32.27%	3.683%
14	7.137	810	816	819	rBV	2351011	2699101	19.26%	2.199%
15	7.278	835	840	843	rBV2	393500	430427	3.07%	0.351%
16	7.425	859	865	868	rVV2	630688	848827	6.06%	0.691%
17	7.666	899	906	911	rBV	1069930	1616670	11.54%	1.317%
18	7.760	915	922	924	rBV3	745935	949206	6.77%	0.773%
19	7.795	924	928	936	rVV2	1384256	1873174	13.37%	1.526%
20	7.960	949	956	959	rBV	432183	383061	2.73%	0.312%
21	8.048	959	971	973	rVV	6731275	14013218	100.00%	11.416%
22	8.084	973	977	980	rVB	1369555	1259548	8.99%	1.026%
23	8.725	1080	1086	1088	rBV	3815772	4111698	29.34%	3.350%
24	8.766	1090	1093	1096	rVV	420063	371939	2.65%	0.303%
25	8.819	1096	1102	1105	rVV	2616403	2265805	16.17%	1.846%
26	9.078	1142	1146	1149	rVB	611241	552785	3.94%	0.450%
27	9.178	1160	1163	1166	rVB	1305392	1028963	7.34%	0.838%
28	9.342	1184	1191	1195	rBV	852342	1267175	9.04%	1.032%
29	9.413	1199	1203	1205	rBV	1479944	1427114	10.18%	1.163%
30	9.442	1205	1208	1211	rVB	899712	776677	5.54%	0.633%
31	9.478	1211	1214	1218	rBV2	413561	403202	2.88%	0.328%
32	9.531	1221	1223	1230	rVB	477915	591065	4.22%	0.482%
33	9.613	1232	1237	1240	rBV	3507501	3614778	25.80%	2.945%
34	9.736	1254	1258	1259	rVV	511263	487702	3.48%	0.397%

LSC Area Percent Report

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Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.748	1259	1260	1263	rVB	927878	645863	4.61%	0.526%
36	9.783	1263	1266	1269	rBV2	897658	895645	6.39%	0.730%
37	9.842	1273	1276	1282	rVV3	217378	349572	2.49%	0.285%
38	9.889	1282	1284	1289	rVV	370639	368045	2.63%	0.300%
39	9.954	1289	1295	1299	rVV	2214669	2308905	16.48%	1.881%
40	10.072	1310	1315	1317	rBV2	320206	417106	2.98%	0.340%
41	10.160	1325	1330	1332	rBV2	263972	392957	2.80%	0.320%
42	10.201	1334	1337	1340	rVB	566230	472376	3.37%	0.385%
43	10.301	1350	1354	1358	rVB	2791494	2589186	18.48%	2.109%
44	10.360	1358	1364	1369	rBV4	262130	529783	3.78%	0.432%
45	10.401	1369	1371	1377	rVV2	326258	491869	3.51%	0.401%
46	10.454	1377	1380	1382	rVV	660700	595458	4.25%	0.485%
47	10.519	1386	1391	1392	rVV	657415	780759	5.57%	0.636%
48	10.531	1392	1393	1397	rVV	1018305	1033046	7.37%	0.842%
49	10.783	1429	1436	1437	rBV4	341069	508638	3.63%	0.414%
50	10.842	1441	1446	1448	rVV2	532274	646384	4.61%	0.527%
51	10.972	1464	1468	1470	rVV2	345451	374506	2.67%	0.305%
52	11.036	1476	1479	1483	rVV3	303154	339622	2.42%	0.277%
53	11.083	1483	1487	1490	rVV	325484	345335	2.46%	0.281%
54	11.125	1490	1494	1501	rVB	905619	1006372	7.18%	0.820%
55	11.230	1506	1512	1513	rBV	660312	675065	4.82%	0.550%
56	11.266	1513	1518	1521	rVV	5152151	6987955	49.87%	5.693%
57	11.313	1521	1526	1528	rVV	3595896	3305625	23.59%	2.693%
58	11.454	1544	1550	1553	rBV	1192912	1340794	9.57%	1.092%
59	11.730	1590	1597	1599	rBV	838124	917342	6.55%	0.747%
60	11.760	1599	1602	1606	rVB	1277797	1229844	8.78%	1.002%
61	11.807	1606	1610	1613	rBV	951467	841476	6.00%	0.685%
62	11.842	1613	1616	1618	rBV	1624146	1591185	11.35%	1.296%
63	11.866	1618	1620	1623	rVB	605350	474727	3.39%	0.387%
64	12.025	1644	1647	1650	rVB	662097	522475	3.73%	0.426%
65	12.277	1684	1690	1693	rBV	432888	564911	4.03%	0.460%
66	12.313	1693	1696	1699	rVV2	327144	447964	3.20%	0.365%
67	12.448	1713	1719	1722	rBV	3836333	4166391	29.73%	3.394%
68	12.530	1730	1733	1736	rVB	918285	742422	5.30%	0.605%
69	12.583	1736	1742	1744	rBV2	276159	357197	2.55%	0.291%
70	12.672	1750	1757	1762	rBV2	3531529	4553634	32.50%	3.710%
71	12.713	1762	1764	1770	rVB3	385299	432247	3.08%	0.352%

LSC Area Percent Report

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Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.783	1772	1776	1778	rBV	389209	374610	2.67%	0.305%
73	12.807	1778	1780	1787	rVB2	651929	758129	5.41%	0.618%
74	12.877	1787	1792	1795	rBV3	404510	712568	5.08%	0.580%
75	12.966	1800	1807	1809	rBV6	405967	730138	5.21%	0.595%
76	12.995	1809	1812	1814	rVB	1067184	1030739	7.36%	0.840%
77	13.060	1819	1823	1825	rVV	1146513	1097787	7.83%	0.894%
78	13.095	1825	1829	1832	rVV	621337	693579	4.95%	0.565%
79	13.154	1836	1839	1842	rBV2	360774	419619	2.99%	0.342%
80	13.213	1847	1849	1856	rVB2	325485	424142	3.03%	0.346%
81	13.395	1877	1880	1885	rVB4	243033	401919	2.87%	0.327%
82	13.607	1910	1916	1918	rBV	303842	441575	3.15%	0.360%
83	13.630	1918	1920	1922	rVV	474918	413682	2.95%	0.337%
84	13.654	1922	1924	1931	rVB3	267120	416534	2.97%	0.339%
85	13.854	1951	1958	1961	rBV3	2432110	3646743	26.02%	2.971%
86	13.889	1961	1964	1968	rVB	1789186	1817476	12.97%	1.481%
87	14.042	1987	1990	1992	rVB	411919	352071	2.51%	0.287%
88	14.071	1992	1995	2004	rVB2	311090	506898	3.62%	0.413%
89	14.242	2020	2024	2026	rVV	472345	520654	3.72%	0.424%
90	14.330	2036	2039	2042	rVV2	324486	382635	2.73%	0.312%
91	14.383	2046	2048	2052	rVV3	356660	399592	2.85%	0.326%
92	14.871	2125	2131	2133	rBV	1067793	1717711	12.26%	1.399%
93	14.966	2143	2147	2151	rVB	472068	499180	3.56%	0.407%
94	15.148	2173	2178	2183	rVB	632184	865224	6.17%	0.705%
95	15.207	2183	2188	2193	rBV	1268881	1448467	10.34%	1.180%
96	15.265	2193	2198	2200	rBV	643107	763130	5.45%	0.622%
97	15.289	2200	2202	2209	rVB2	421354	557597	3.98%	0.454%
98	15.448	2221	2229	2231	rBV3	156365	331328	2.36%	0.270%
99	16.607	2421	2426	2434	rVB2	359724	630279	4.50%	0.513%
100	17.012	2489	2495	2503	rVB	255061	507150	3.62%	0.413%

Sum of corrected areas: 122754017

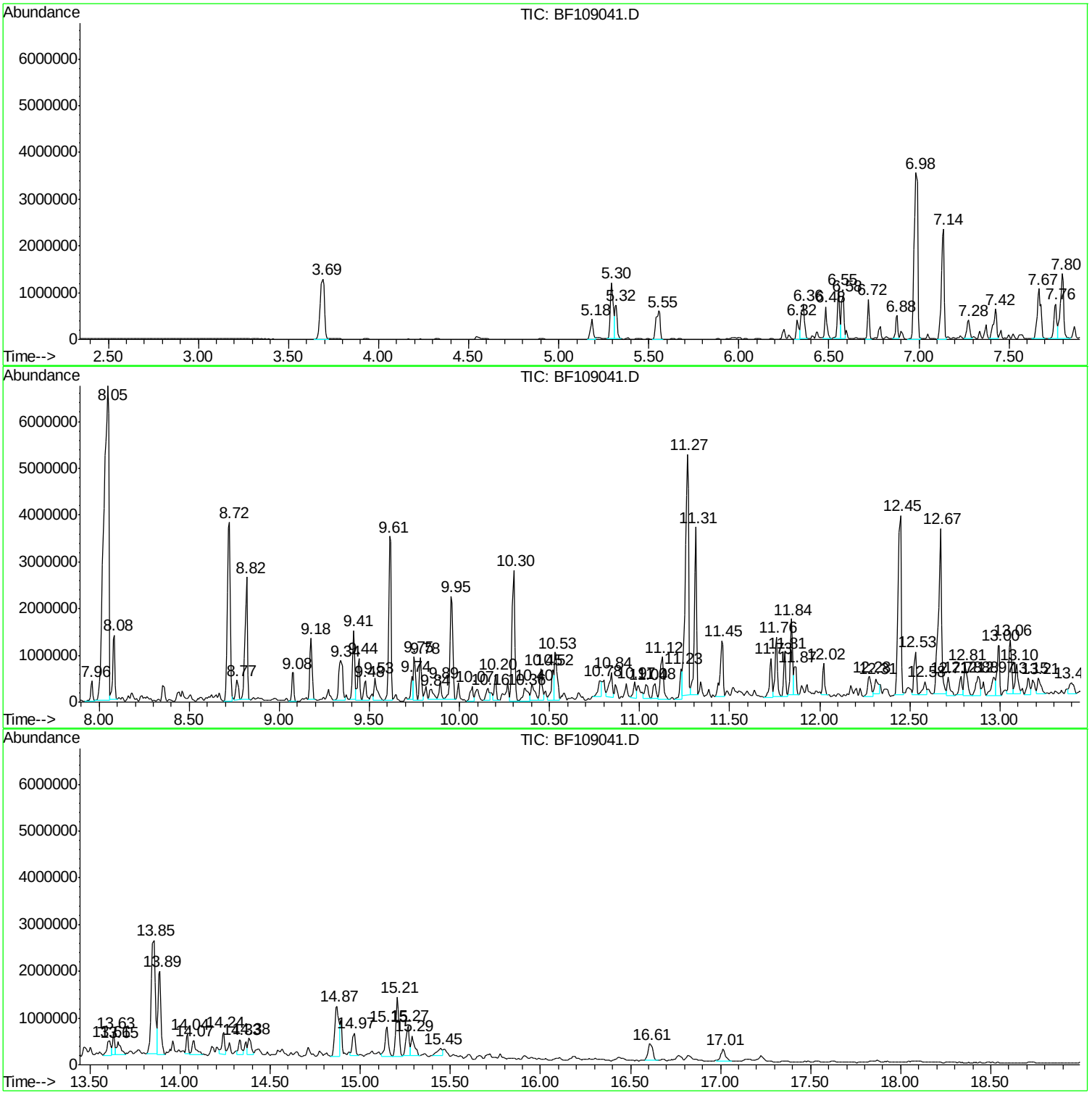
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

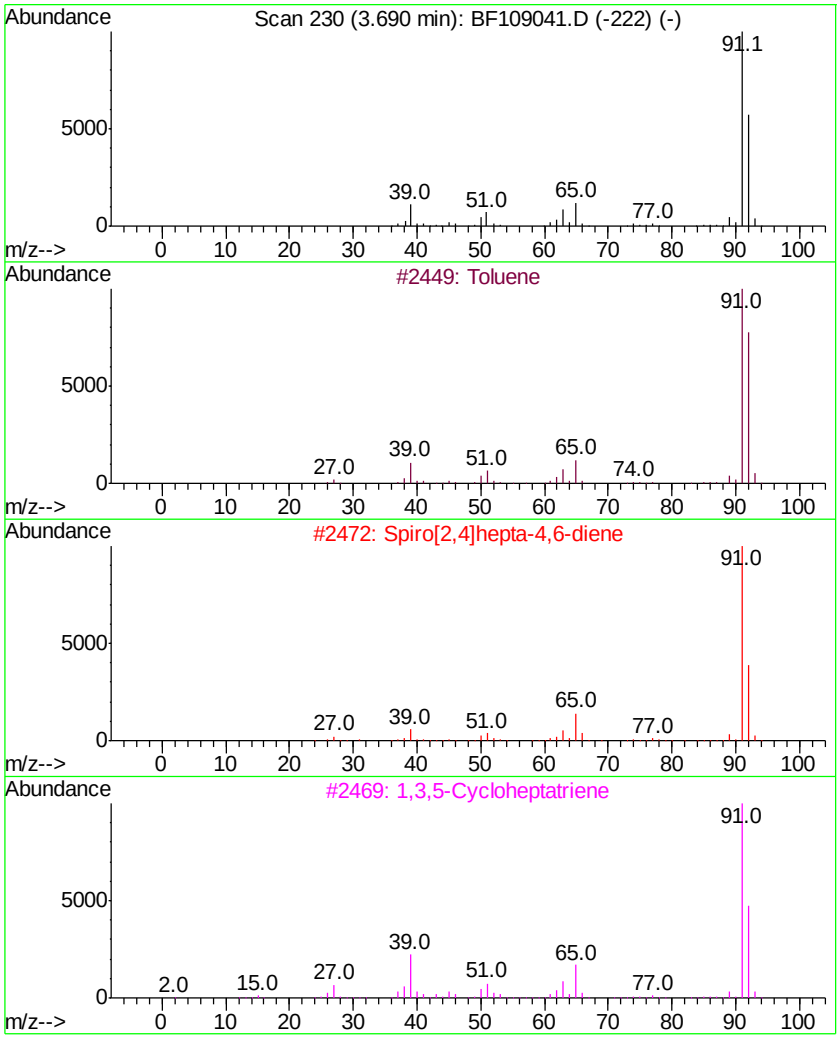
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

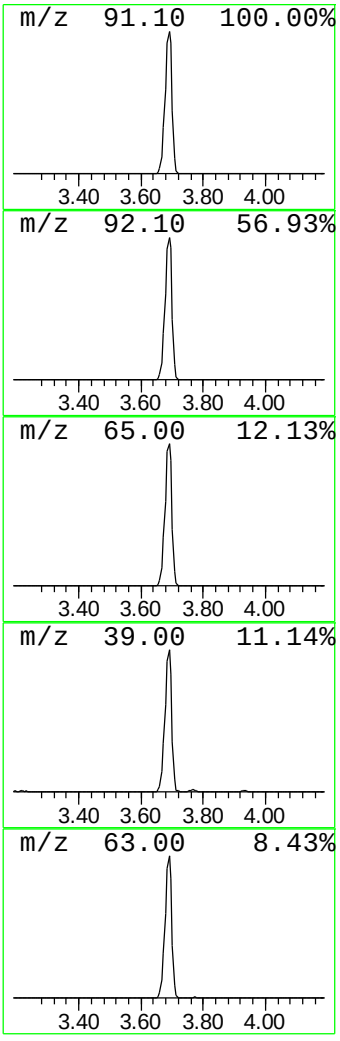
****

Peak Number 1 Toluene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.69	62.76 ng	2024730	1,4-Dichlorobenzene-d4	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	95
2	Spiro[2,4]hepta-4,6-diene	92	C7H8	000765-46-8	87
3	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	87
4	2,5-Norbornadiene	92	C7H8	000121-46-0	83
5	Cyclobutene, 2-propenylidene-	92	C7H8	052097-85-5	78





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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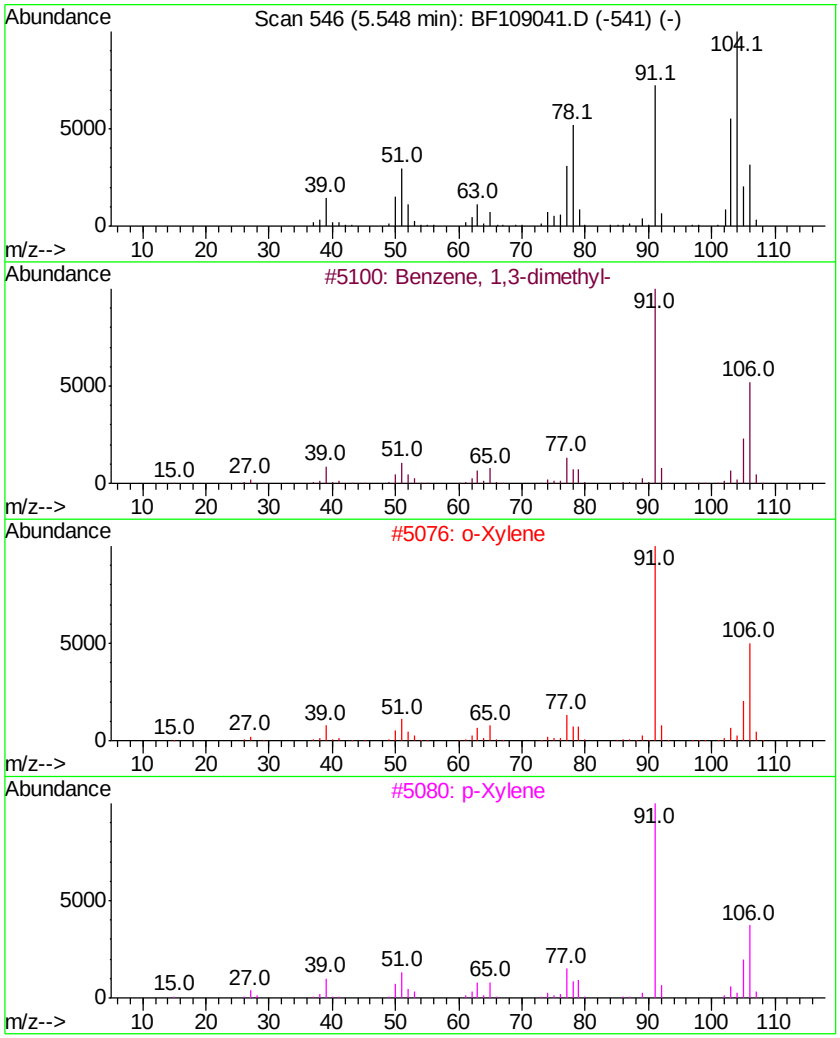
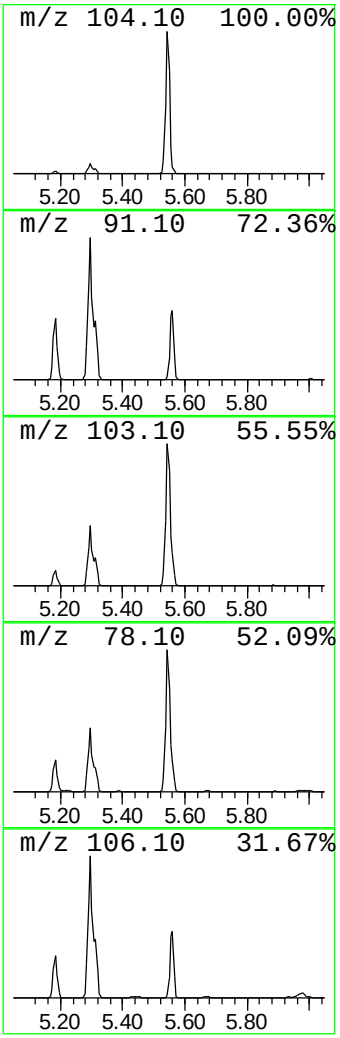
Peak Number 2 Benzene, 1,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.55	28.44 ng	917549	1,4-Dichlorobenzene-d4	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	95
2	o-Xylene	106	C8H10	000095-47-6	95
3	p-Xylene	106	C8H10	000106-42-3	93
4	1,3-Cyclopentadiene, 5-(1-methyl...	106	C8H10	002175-91-9	83
5	Ethylbenzene	106	C8H10	000100-41-4	76





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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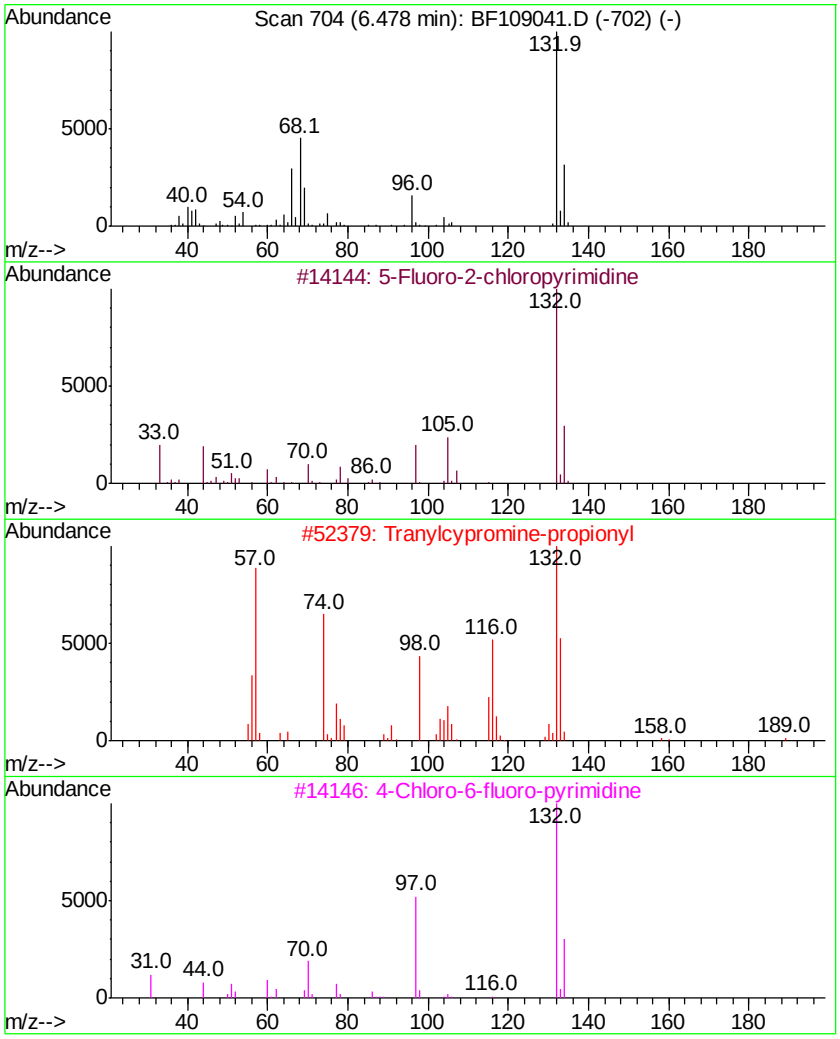
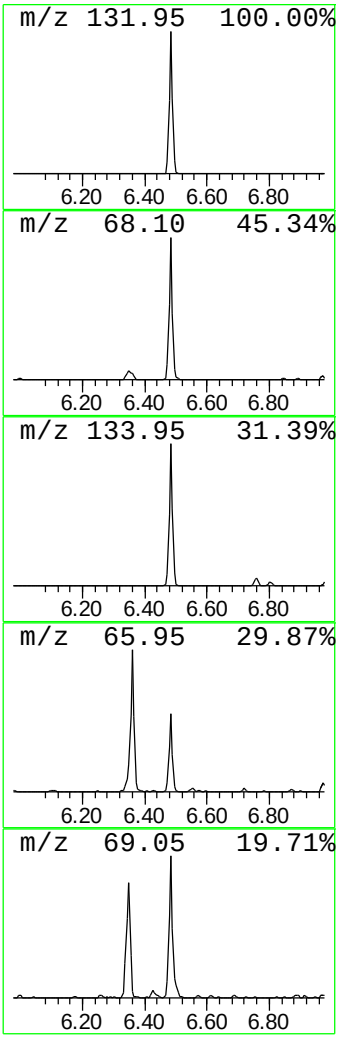
Peak Number 3 unknown6.48 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.48	17.60 ng	567941	1,4-Dichlorobenzene-d4	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
4	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9
5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9





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Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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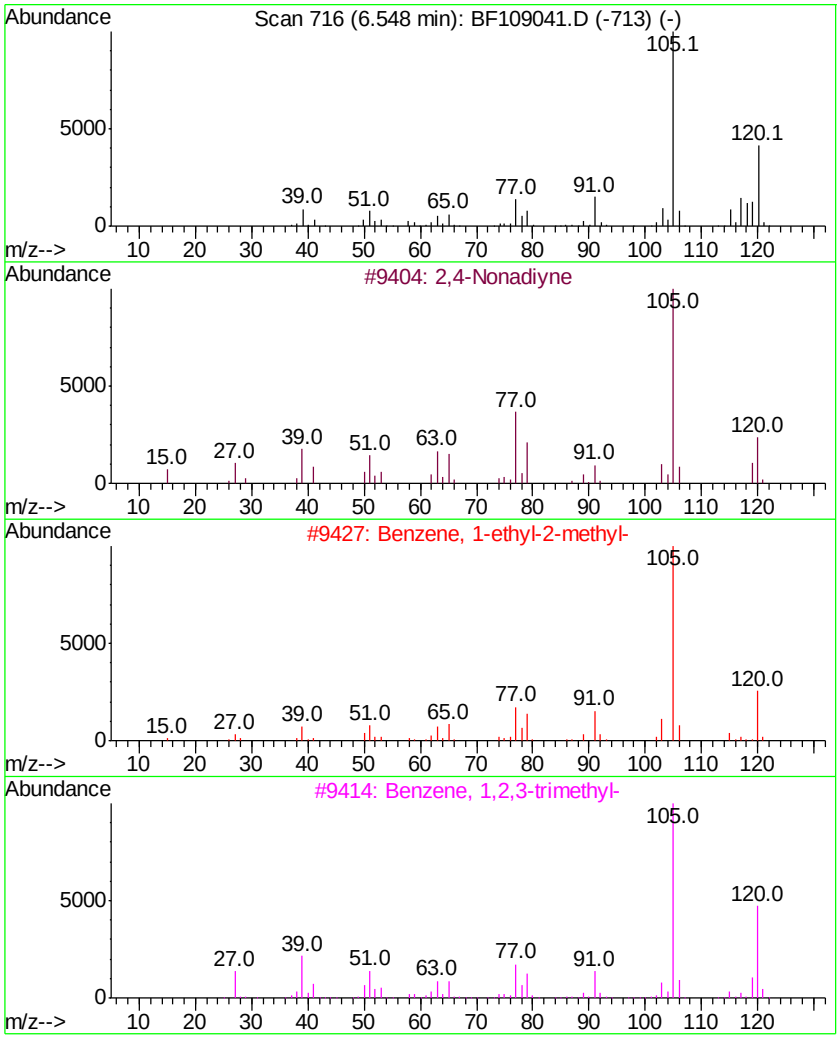
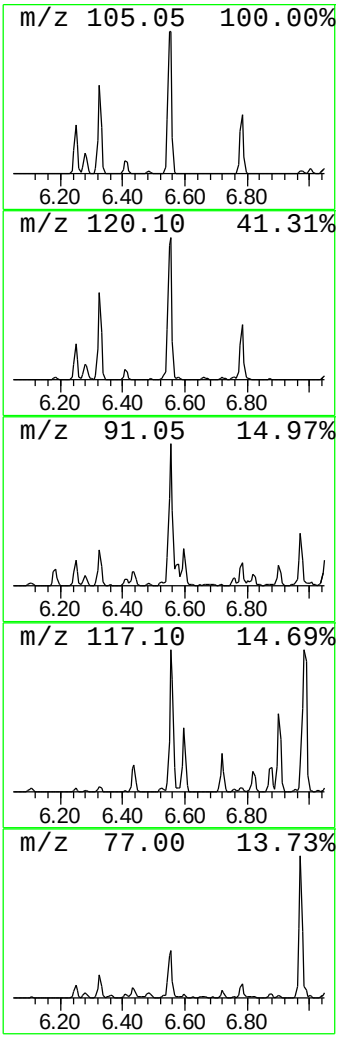
Peak Number 4 2,4-Nonadiyne Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.55	32.52 ng	1049110	1,4-Dichlorobenzene-d4	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Nonadiyne	120	C9H12	063621-15-8	50
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	46
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	43
4	1,3-Cyclopentadiene, 5-(1-methyl...	120	C9H12	003141-02-4	43
5	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	43





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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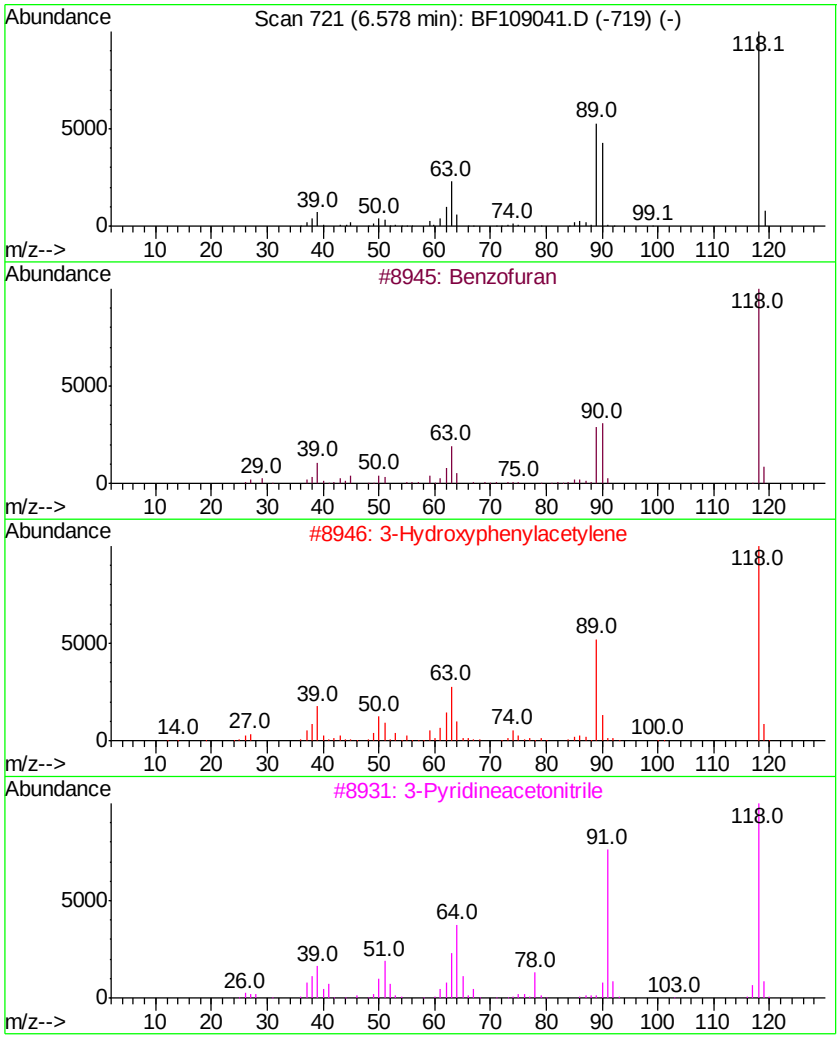
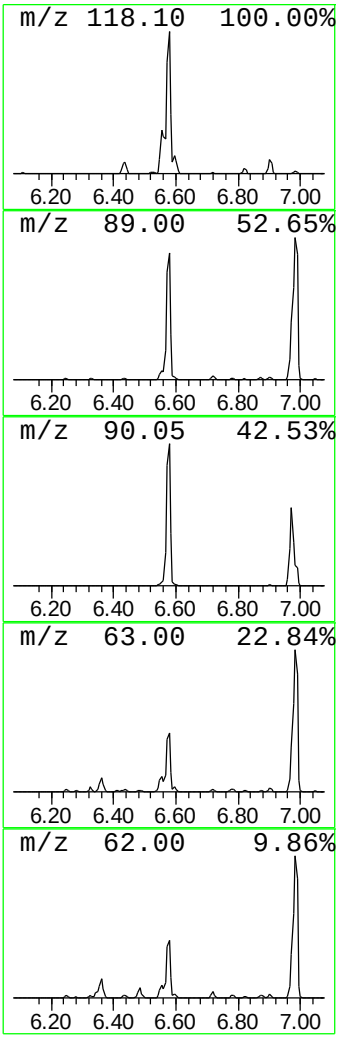
Peak Number 5 Benzofuran Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.58	23.38 ng	754184	1,4-Dichlorobenzene-d4	6.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran	118	C8H6O	000271-89-6	91
2	3-Hydroxyphenylacetylene	118	C8H6O	010401-11-3	87
3	3-Pyridineacetonitrile	118	C7H6N2	006443-85-2	40
4	2H-Cyclopenta[d]pyridazine	118	C7H6N2	000270-64-4	40
5	1H-Pyrrolo[2,3-b]pyridine	118	C7H6N2	000271-63-6	35





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Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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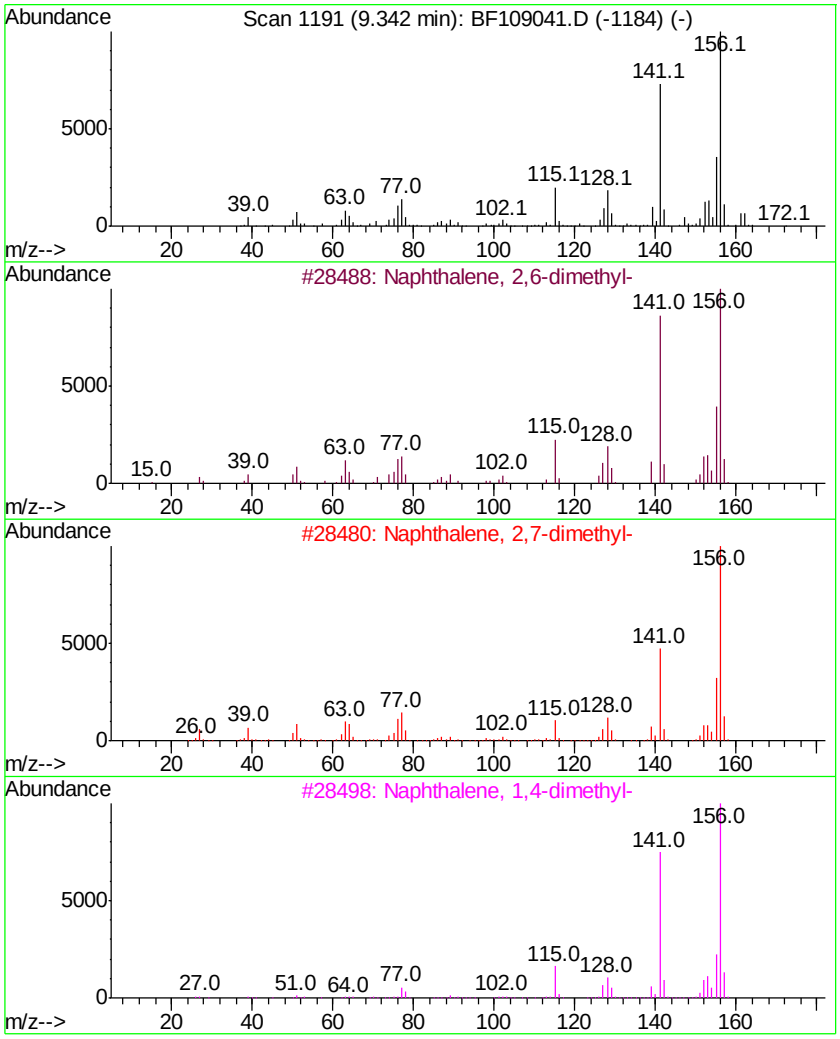
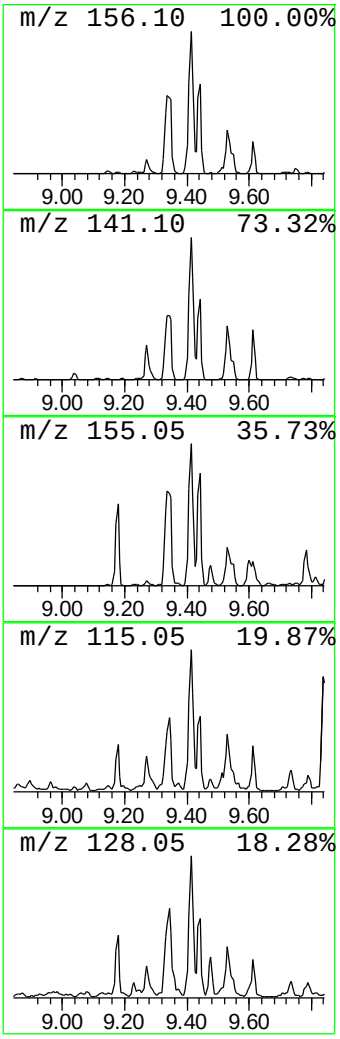
Peak Number 6 Naphthalene, 2,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.34	39.24 ng	1267180	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





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Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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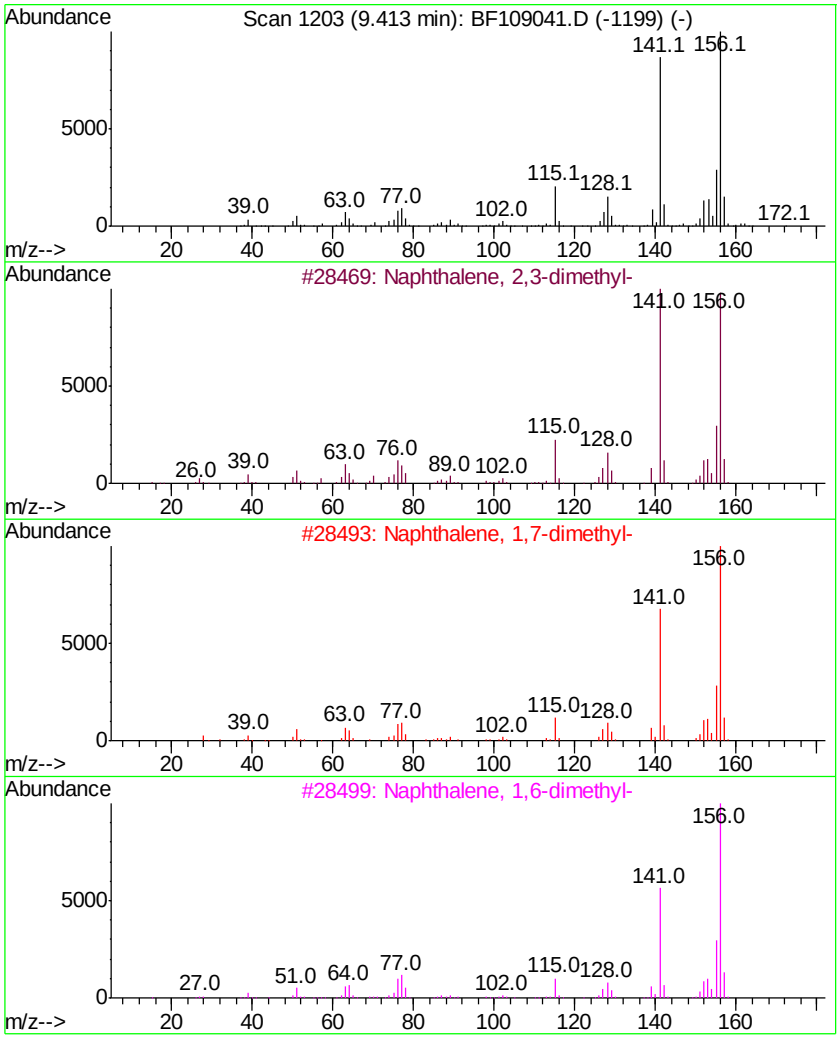
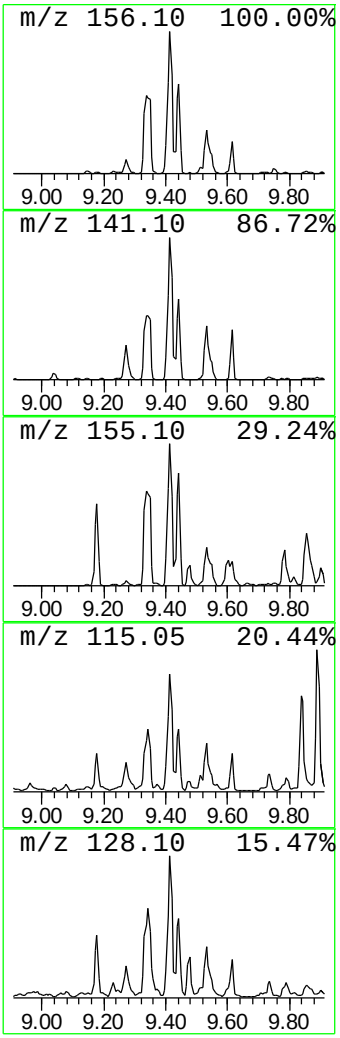
Peak Number 7 Naphthalene, 2,3-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.41	44.19 ng	1427110	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





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Sample : J4919-01 5X
Misc :
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Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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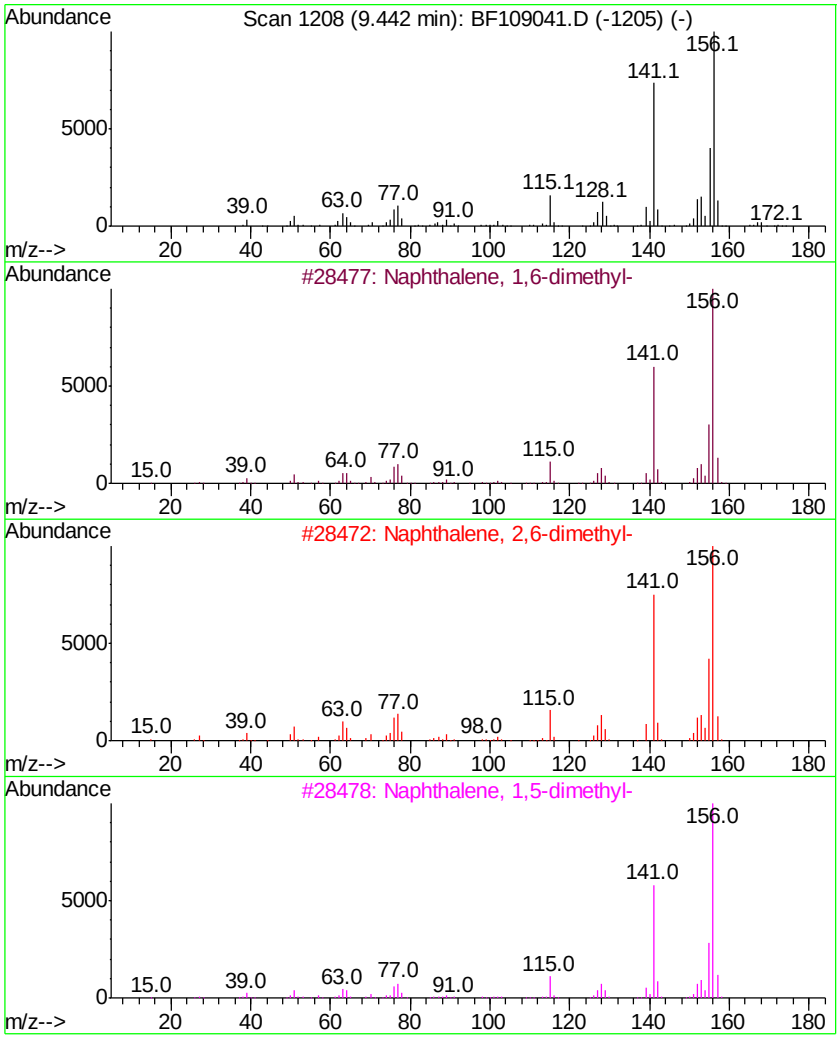
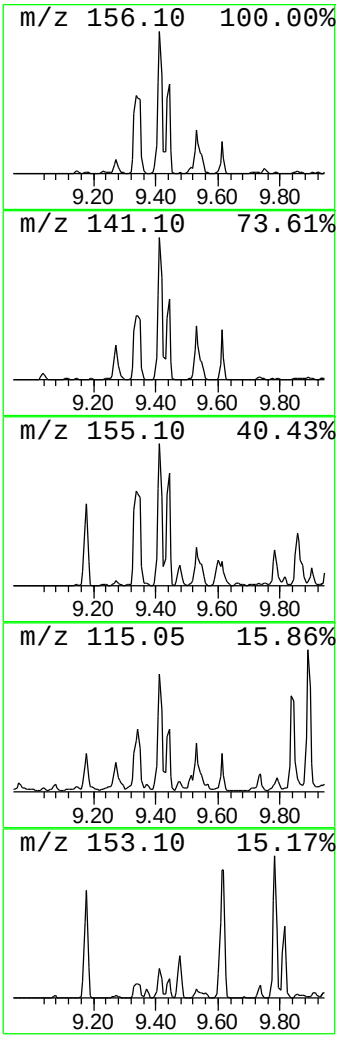
Peak Number 8 Naphthalene, 1,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	24.05 ng	776677	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96





Library Search Compound Report

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Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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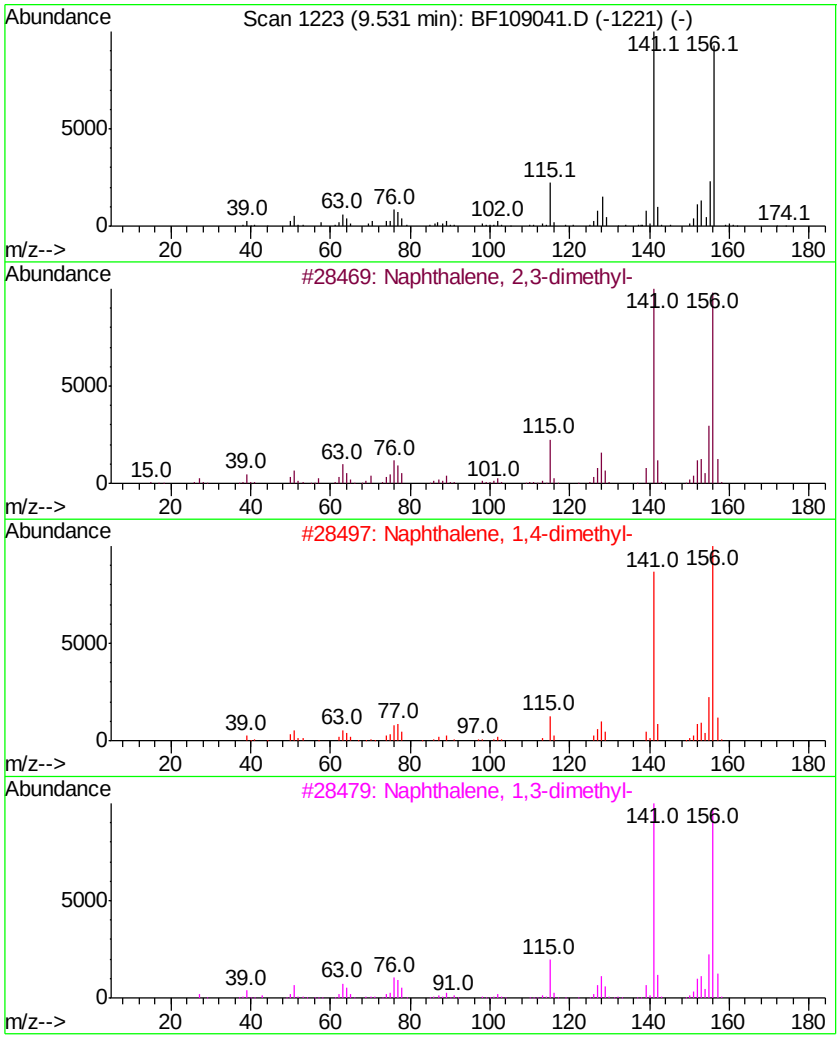
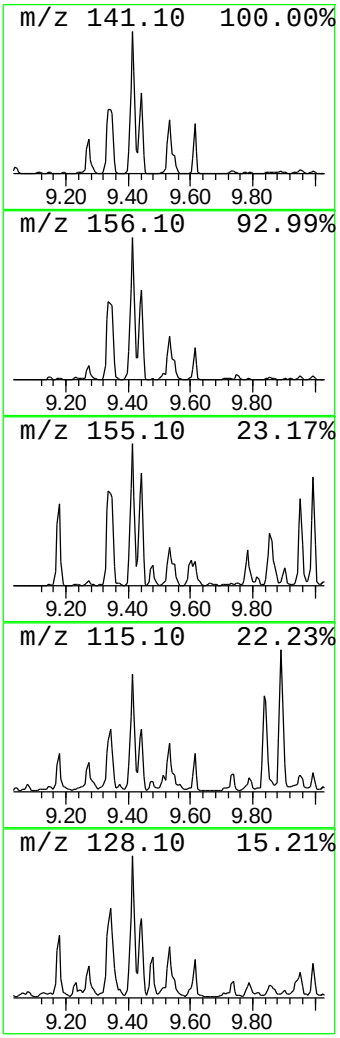
Peak Number 9 Naphthalene, 1,4-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.53	18.30 ng	591065	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	94
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	93





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ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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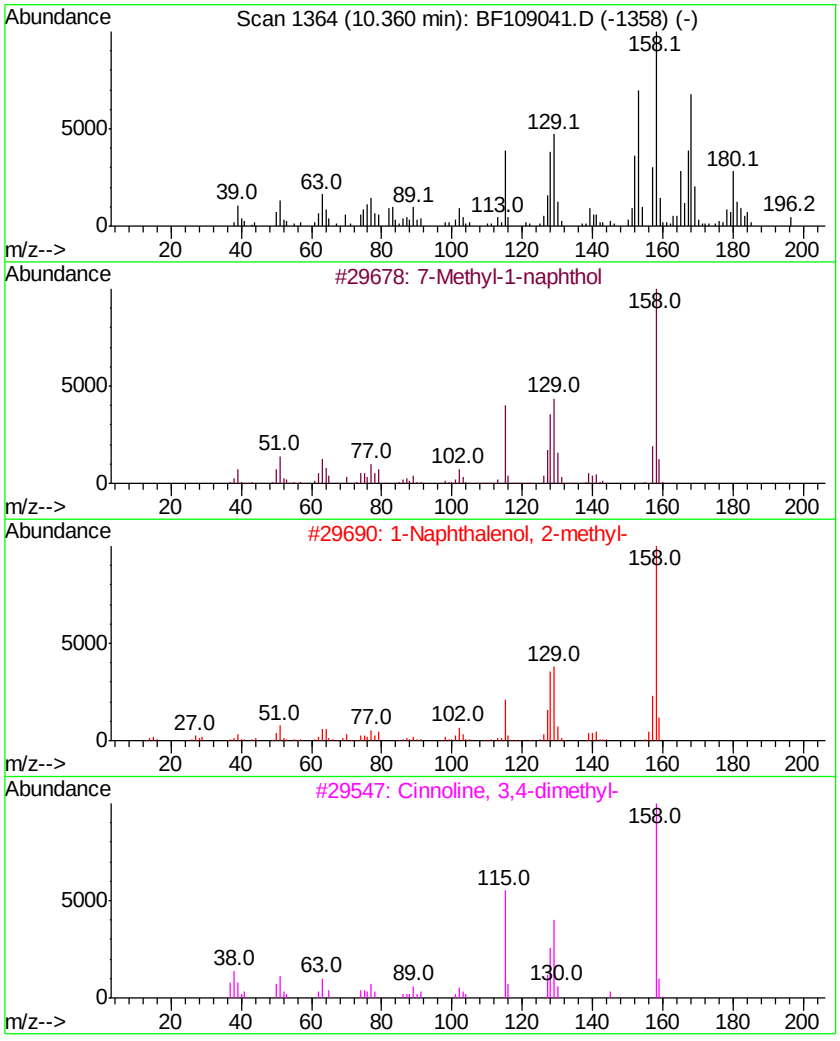
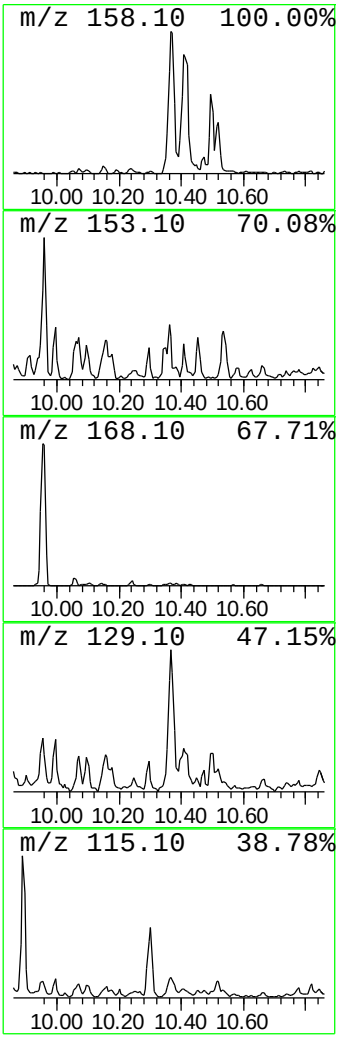
Peak Number 10 7-Methyl-1-naphthol Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.36	16.41 ng	529783	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7-Methyl-1-naphthol	158	C11H10O	006939-33-9	94
2	1-Naphthalenol, 2-methyl-	158	C11H10O	007469-77-4	89
3	Cinnoline, 3,4-dimethyl-	158	C10H10N2	003929-83-7	41
4	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	38
5	1-Naphthalenol, 4-methyl-	158	C11H10O	010240-08-1	30





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Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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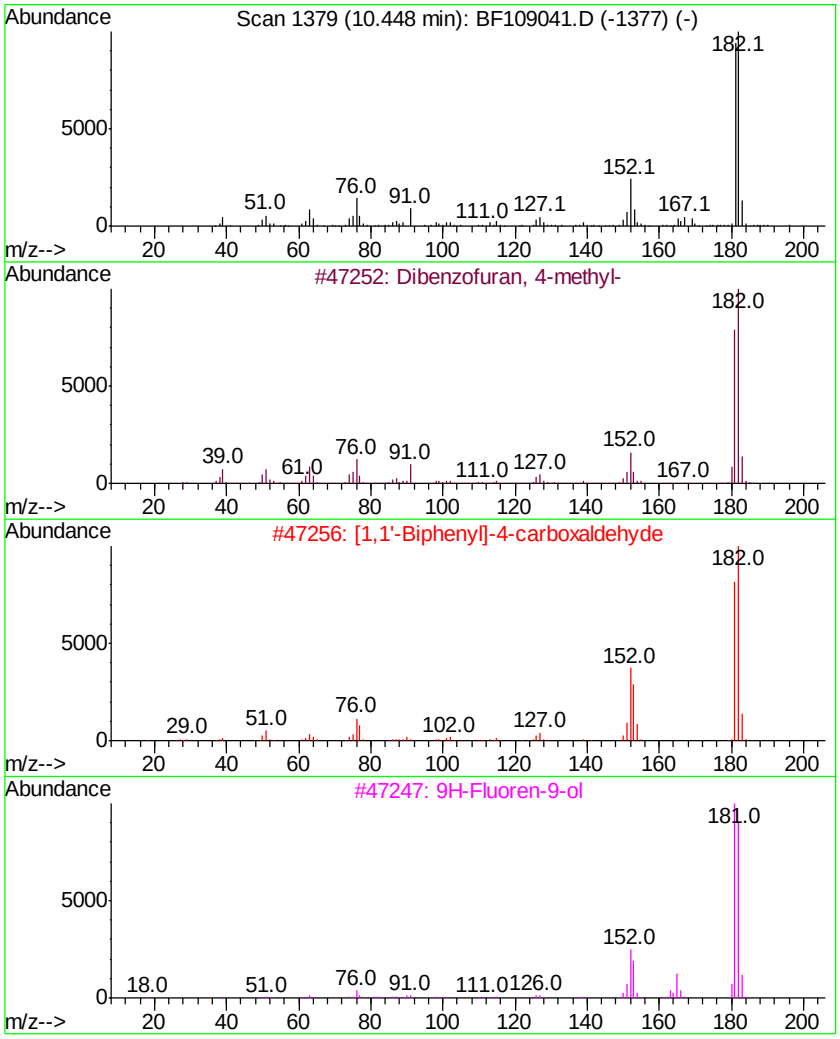
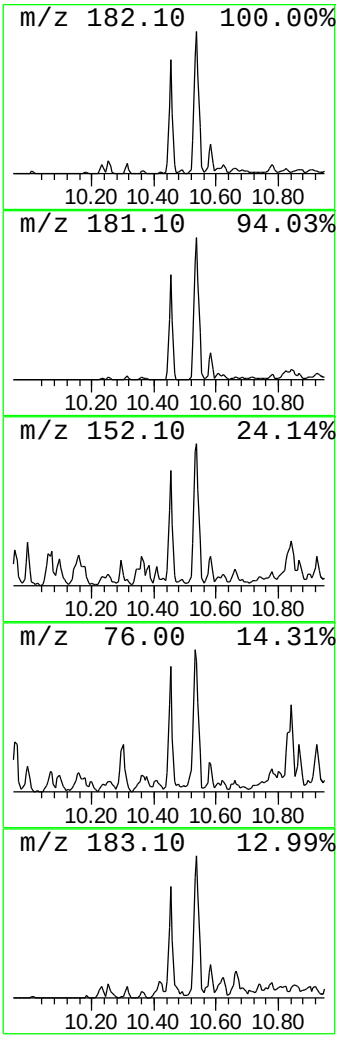
Peak Number 11 Dibenzofuran, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.45	18.44 ng	595458	Acenaphthene-d10	9.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	89
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	83
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78
5	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72





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Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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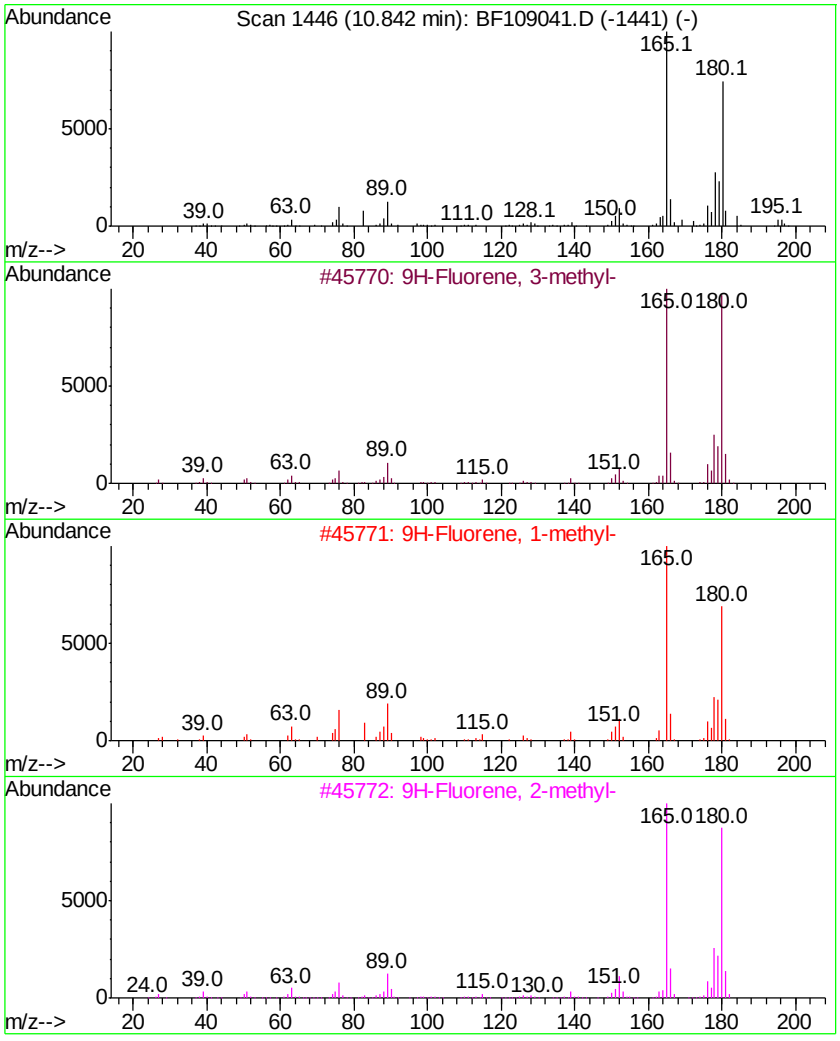
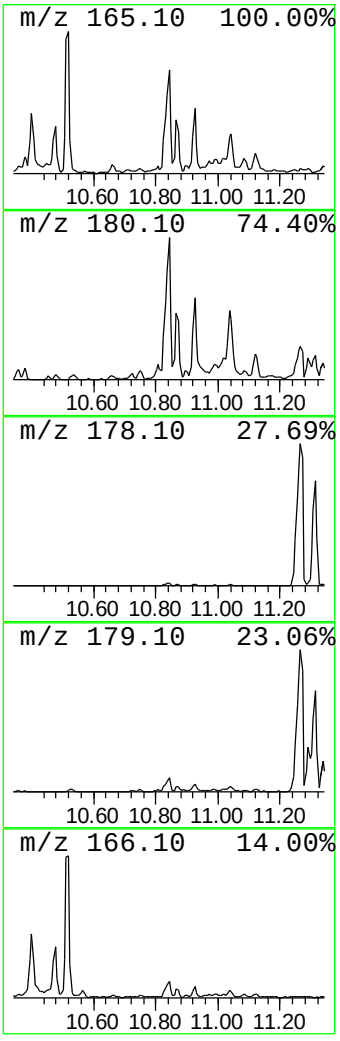
Peak Number 12 9H-Fluorene, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.84	19.15 ng	646384	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	91
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	81
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	62





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Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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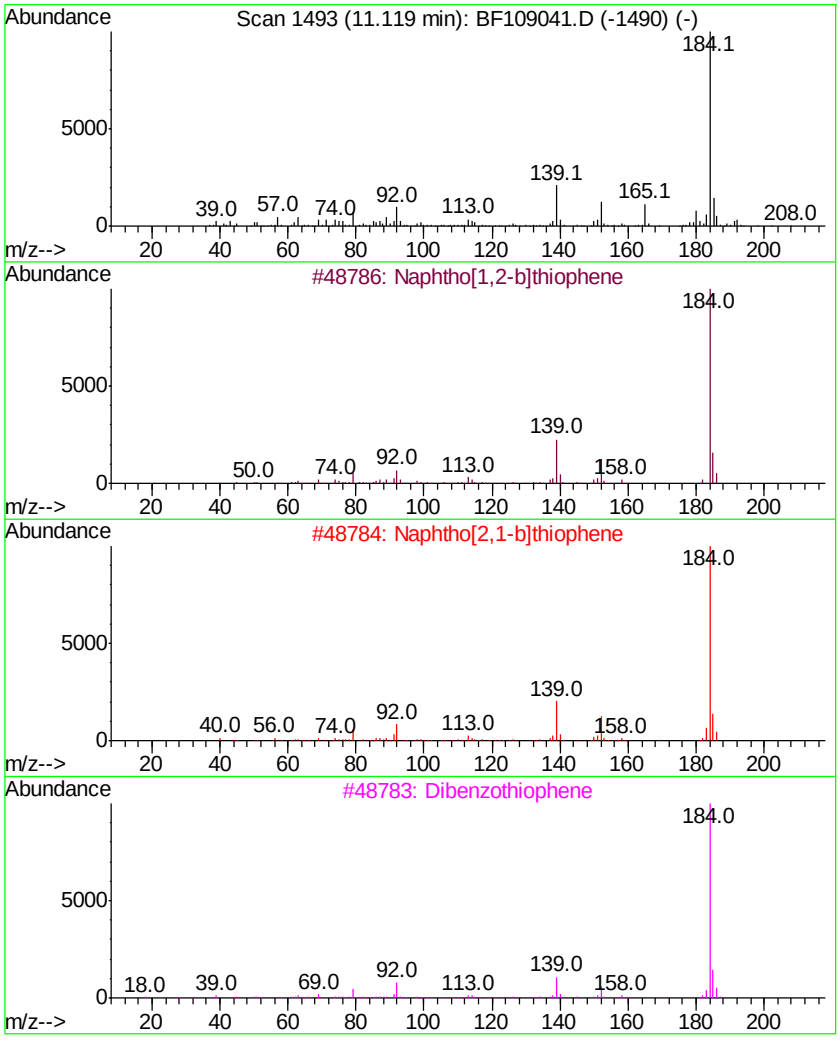
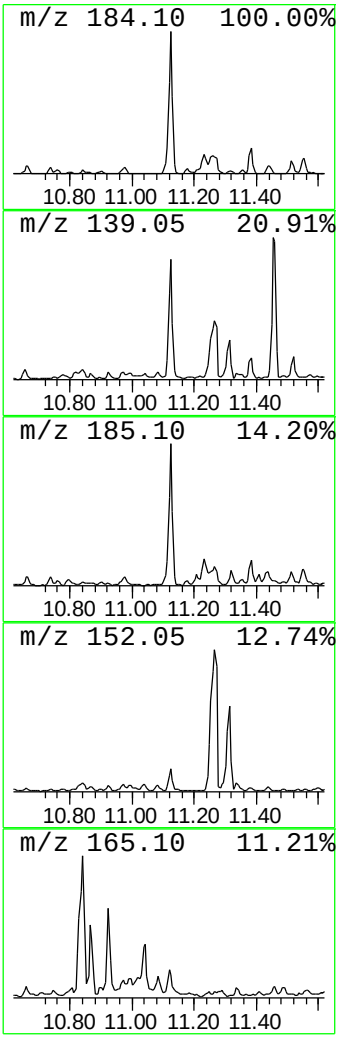
Peak Number 13 Naphtho[1,2-b]thiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.12	29.82 ng	1006370	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Dibenzothiophene	184	C12H8S	000132-65-0	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





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Misc :
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Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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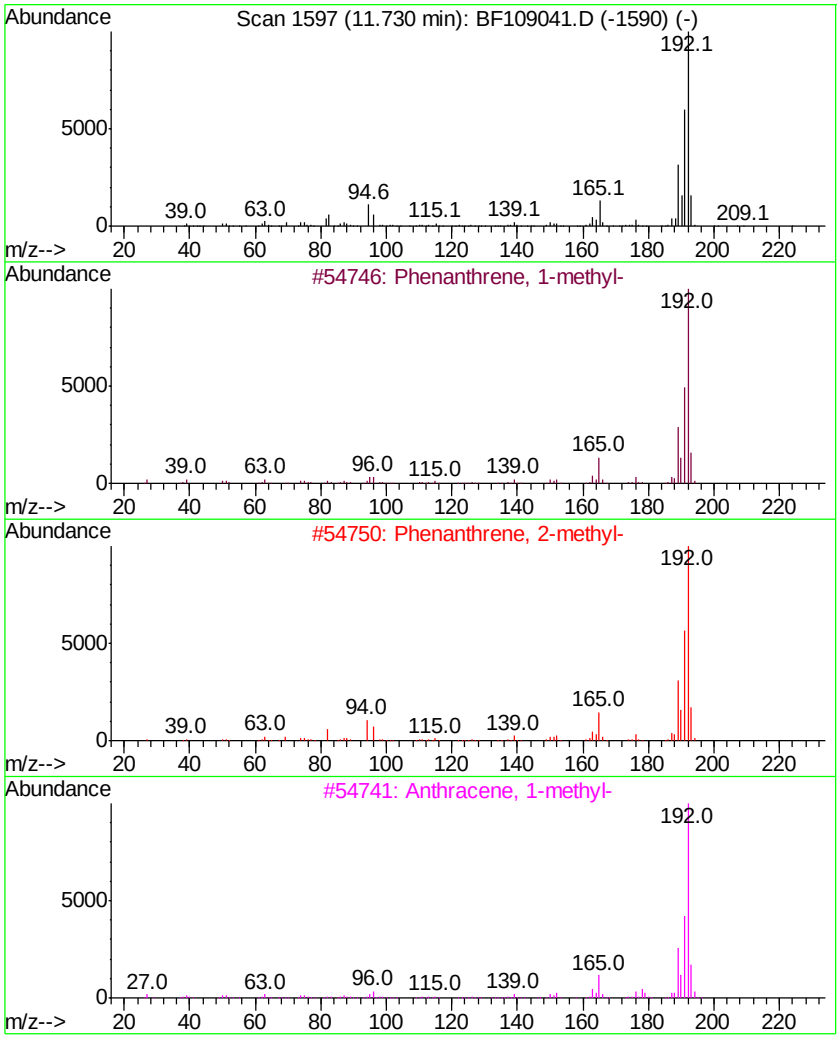
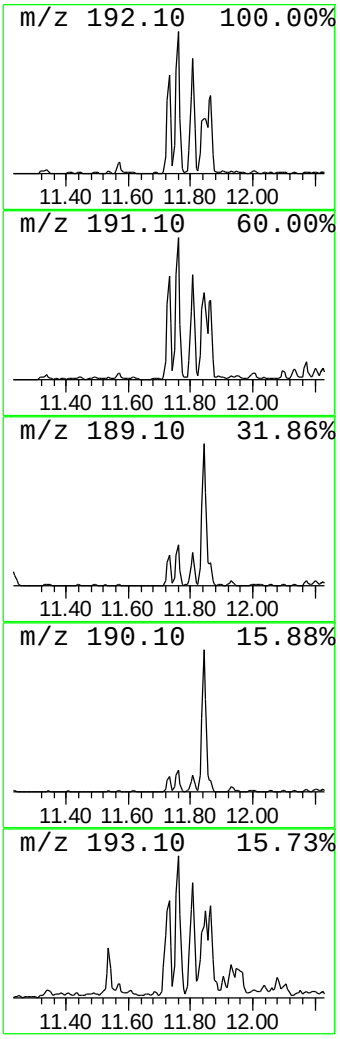
Peak Number 14 Anthracene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.73	27.18 ng	917342	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Instrument : BNA_F
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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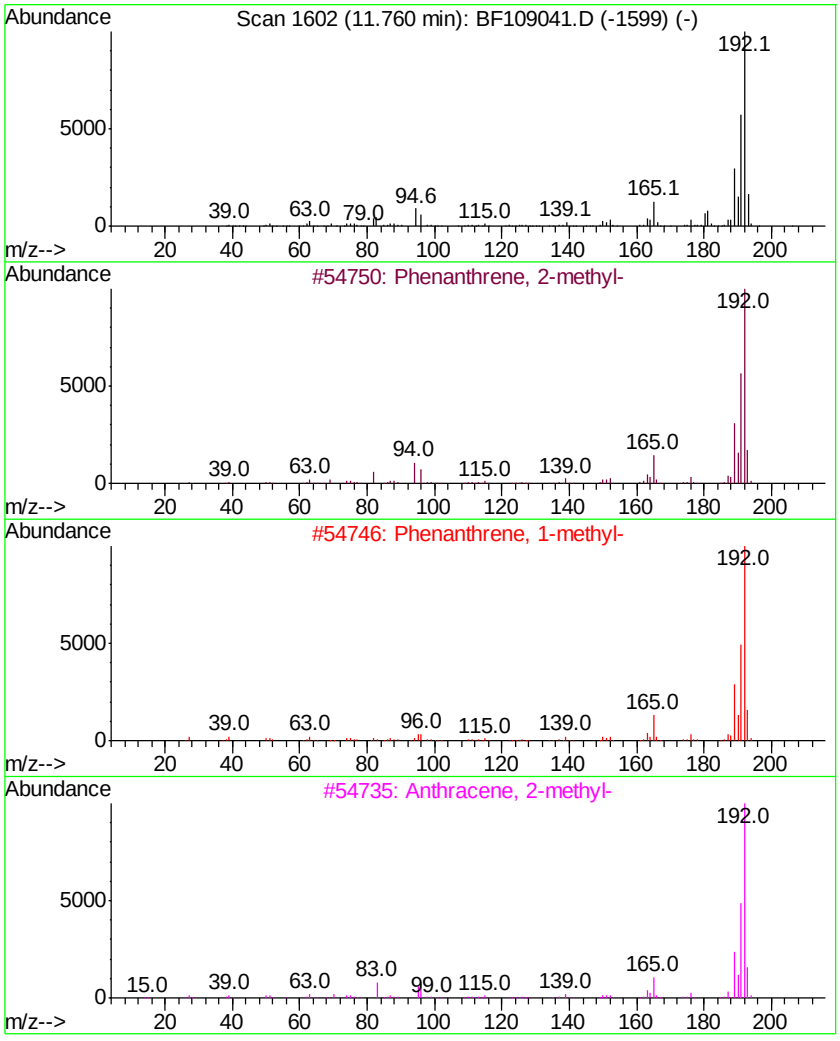
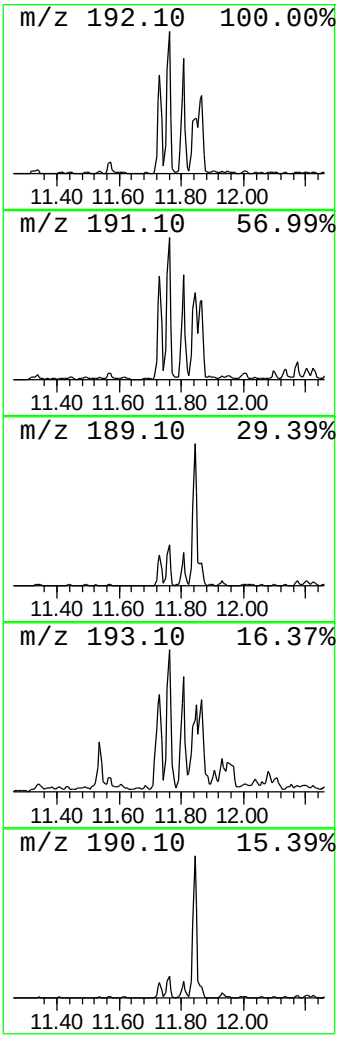
Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	36.44 ng	1229840	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





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Sample : J4919-01 5X
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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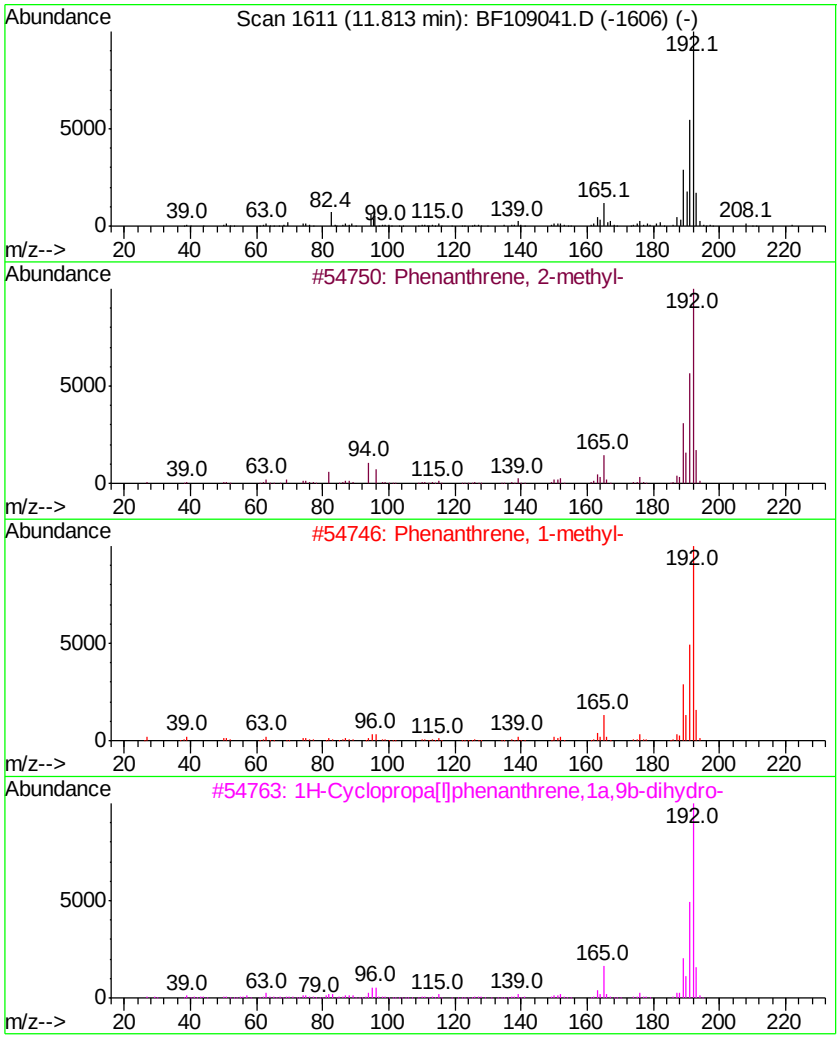
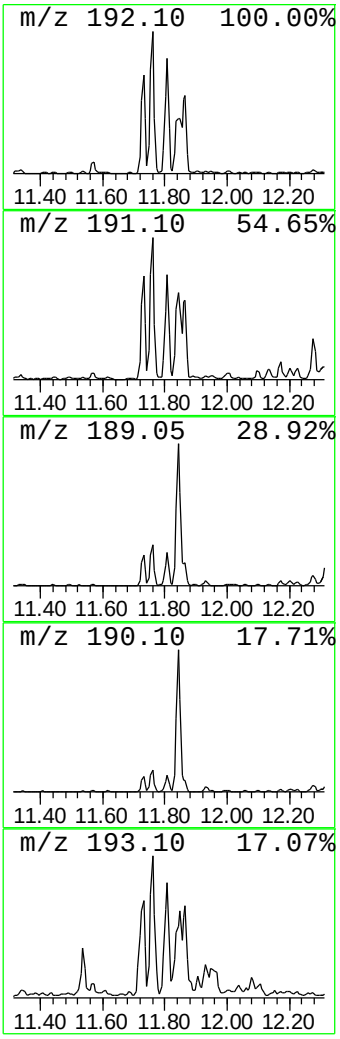
Peak Number 16 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	24.93 ng	841476	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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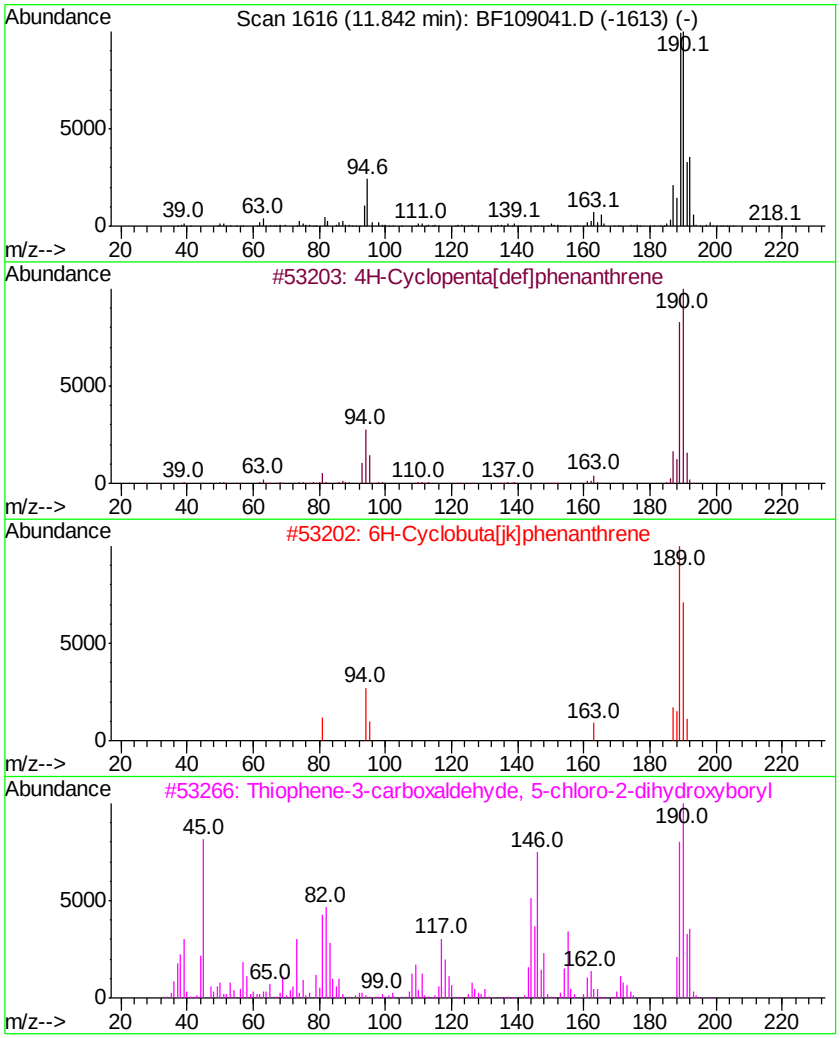
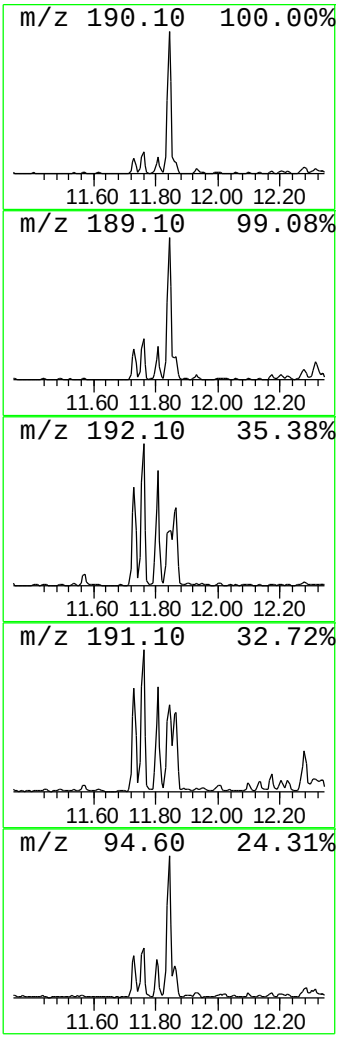
Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.84	47.14 ng	1591190	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
4	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
5	Methyl diselenide	190	C2H6Se2	007101-31-7	46





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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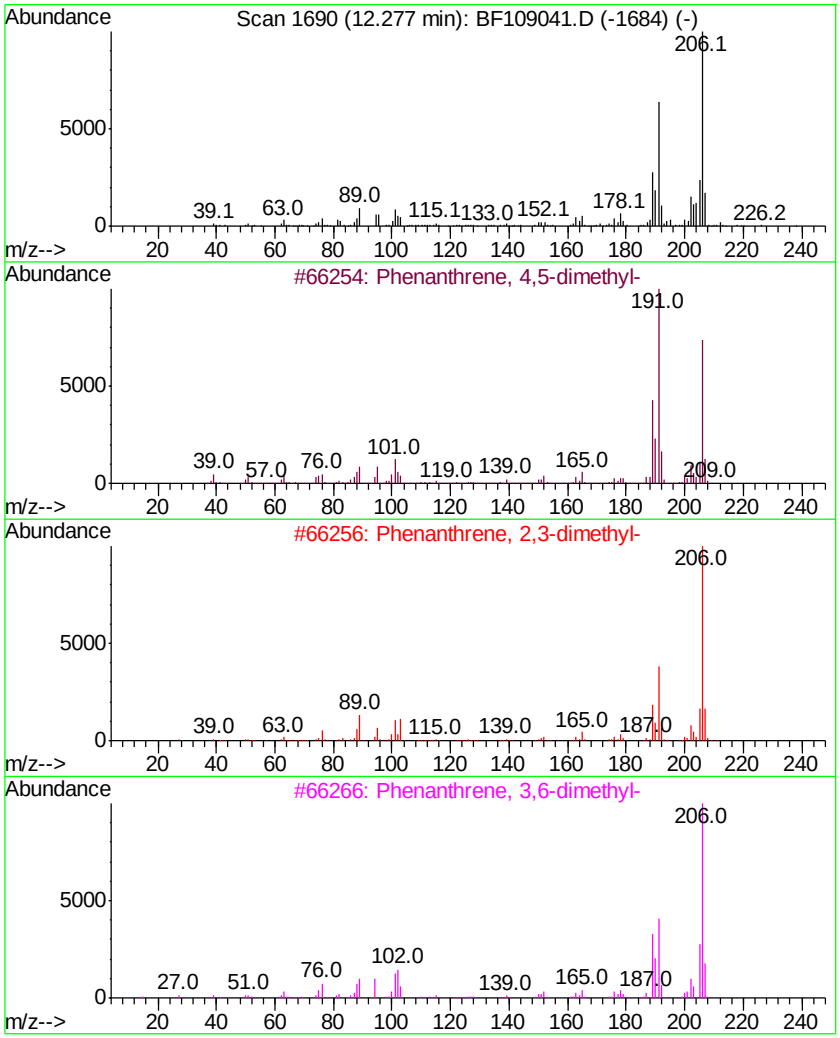
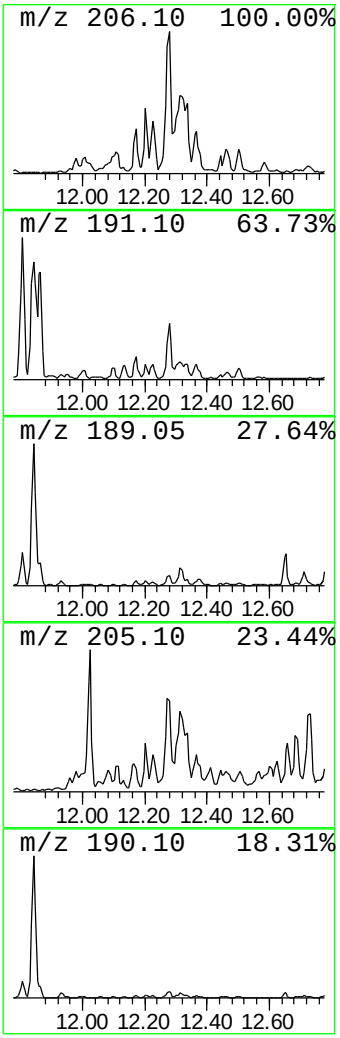
Peak Number 18 Phenanthrene, 4,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	16.74 ng	564911	Phenanthrene-d10	11.23

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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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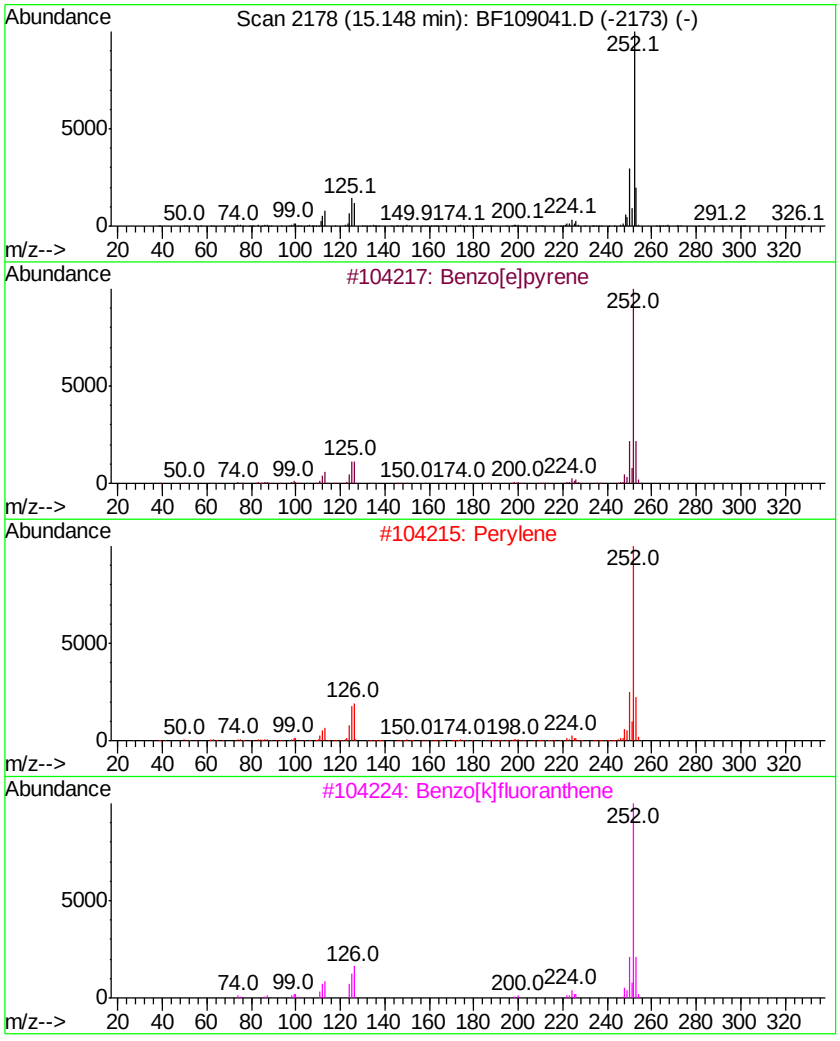
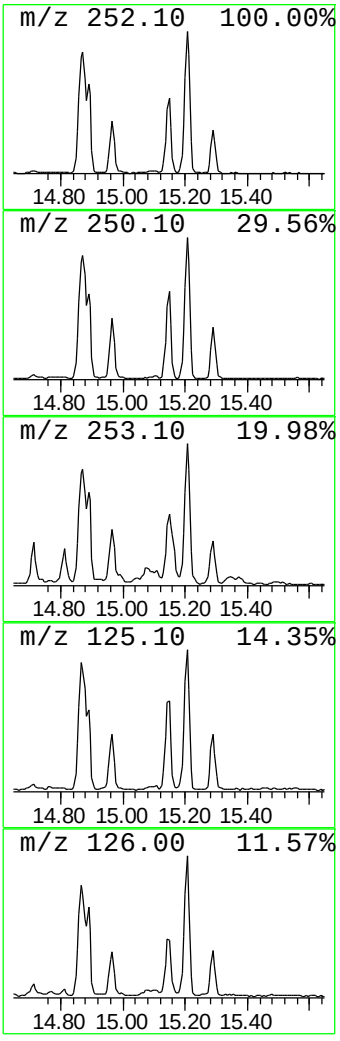
Peak Number 20 Benzo[e]pyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.15	22.68 ng	865224	Perylene-d12	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2	Perylene	252	C20H12	000198-55-0	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF091718\
Data File : BF109041.D
Acq On : 17 Sep 2018 12:03
Operator : JU/SJ
Sample : J4919-01 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : ROLLOFF-03_COMP_FILL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091418.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
Toluene	3.69	62.8	ng	2024730	1	6.72	645229	20.0
Benzene, 1,3-dime...	5.55	28.4	ng	917549	1	6.72	645229	20.0
unknown6.48	6.48	17.6	ng	567941	1	6.72	645229	20.0
2,4-Nonadiyne	6.55	32.5	ng	1049110	1	6.72	645229	20.0
Benzofuran	6.58	23.4	ng	754184	1	6.72	645229	20.0
Naphthalene, 2,6-...	9.34	39.2	ng	1267180	3	9.75	645863	20.0
Naphthalene, 2,3-...	9.41	44.2	ng	1427110	3	9.75	645863	20.0
Naphthalene, 1,6-...	9.44	24.1	ng	776677	3	9.75	645863	20.0
Naphthalene, 1,4-...	9.53	18.3	ng	591065	3	9.75	645863	20.0
7-Methyl-1-naphthol	10.36	16.4	ng	529783	3	9.75	645863	20.0
Dibenzofuran, 4-m...	10.45	18.4	ng	595458	3	9.75	645863	20.0
9H-Fluorene, 3-me...	10.84	19.1	ng	646384	4	11.23	675065	20.0
Naphtho[1,2-b]thi...	11.12	29.8	ng	1006370	4	11.23	675065	20.0
Anthracene, 1-met...	11.73	27.2	ng	917342	4	11.23	675065	20.0
Phenanthrene, 2-m...	11.76	36.4	ng	1229840	4	11.23	675065	20.0
Phenanthrene, 1-m...	11.81	24.9	ng	841476	4	11.23	675065	20.0
4H-Cyclopenta[def...	11.84	47.1	ng	1591190	4	11.23	675065	20.0
Phenanthrene, 4,5...	12.28	16.7	ng	564911	4	11.23	675065	20.0
Benzo[e]pyrene	15.15	22.7	ng	865224	6	15.27	763130	20.0