LSC Area Percent Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF040218\
Data File : BF104148.D
Acq On : 2 Apr 2018 20:56
Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

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-BF032818.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	5.610	593	599	605	rBV5	15187	46163	2.58%	0.191%
2	5.804	628	632	649	rBV	132238	383766	21.49%	1.587%
3	6.575	757	763	764	rBV3	21059	34593	1.94%	0.143%
4	6.604	764	768	769	rVV	30006	36711	2.06%	0.152%
5	6.633	771	773	778	rVB	28531	39459	2.21%	0.163%
6	6.733	786	790	795	rBV	68362	104573	5.85%	0.432%
7	6.786	795	799	805	rVV2	78493	124283	6.96%	0.514%
8	6.957	825	828	835	rBV	351722	442038	24.75%	1.827%
9	7.110	851	854	856	rBV	98626	103766	5.81%	0.429%
10	7.133	856	858	866	rVV	133447	137384	7.69%	0.568%
11	7.216	869	872	891	rVB	101588	205165	11.49%	0.848%
12	7.451	907	912	915	rBV2	26535	47581	2.66%	0.197%
13	7.481	915	917	921	rVB	27044	24491	1.37%	0.101%
14	7.539	921	927	929	rBV4	38864	72019	4.03%	0.298%
15	7.810	970	973	978	rBV	33965	35397	1.98%	0.146%
16	7.975	997	1001	1006	rBV3	89197	141812	7.94%	0.586%
17	8.057	1013	1015	1022	rVB	29805	37787	2.12%	0.156%
18	8.239	1043	1046	1048	rBV	683458	611613	34.24%	2.529%
19	8.263	1048	1050	1056	rVV	274087	338024	18.92%	1.397%
20	8.316	1056	1059	1066	rVB2	43641	69136	3.87%	0.286%
21	8.510	1088	1092	1097	rVB5	23027	30529	1.71%	0.126%
22	8.675	1115	1120	1121	rBV2	20760	28035	1.57%	0.116%
23	8.804	1137	1142	1150	rVB9	25985	63722	3.57%	0.263%
24	8.904	1156	1159	1164	rVB	43125	47065	2.64%	0.195%
25	8.951	1164	1167	1174	rBV3	40847	53893	3.02%	0.223%
26	9.051	1179	1184	1196	rBV	1016155	1023220	57.29%	4.230%
27	9.310	1222	1228	1233	rBV	225141	242602	13.58%	1.003%
28	9.416	1243	1246	1249	rBV	69598	81564	4.57%	0.337%
29	9.486	1254	1258	1260	rVV3	90099	101685	5.69%	0.420%
30	9.522	1260	1264	1269	rVB2	73845	97583	5.46%	0.403%
31	9.574	1269	1273	1278	rBV2	273717	395522	22.14%	1.635%
32	9.616	1278	1280	1283	rVV2	103576	97854	5.48%	0.405%
33	9.651	1283	1286	1289	rVV	565280	570618	31.95%	2.359%
34	9.680	1289	1291	1296	rVV4	118659	176234	9.87%	0.729%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J2099-08 10X
Misc :
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Instrument : BNA_F
ClientSampleId : DUP-032718

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-BF032818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.722	1296	1298	1303	rVB	72329	69237	3.88%	0.286%
36	9.769	1303	1306	1315	rVB	254052	322444	18.05%	1.333%
37	9.857	1315	1321	1327	rBV	791041	908300	50.85%	3.755%
38	9.974	1338	1341	1342	rBV	72110	63723	3.57%	0.263%
39	9.998	1342	1345	1348	rVV	891423	784782	43.94%	3.244%
40	10.027	1348	1350	1354	rVB	259912	248928	13.94%	1.029%
41	10.104	1359	1363	1366	rBV	96831	118816	6.65%	0.491%
42	10.139	1366	1369	1371	rBV3	23727	23612	1.32%	0.098%
43	10.169	1371	1374	1375	rBV2	46821	40253	2.25%	0.166%
44	10.192	1375	1378	1383	rVB4	114499	142643	7.99%	0.590%
45	10.233	1383	1385	1389	rVB	77856	70852	3.97%	0.293%
46	10.269	1389	1391	1394	rVB3	32331	28829	1.61%	0.119%
47	10.310	1394	1398	1401	rBV	164462	192584	10.78%	0.796%
48	10.339	1401	1403	1409	rVB2	101106	100568	5.63%	0.416%
49	10.404	1409	1414	1416	rBV3	114592	151723	8.49%	0.627%
50	10.451	1420	1422	1426	rBV	109942	129999	7.28%	0.537%
51	10.492	1426	1429	1431	rVB2	64099	51981	2.91%	0.215%
52	10.521	1431	1434	1435	rBV	89742	82994	4.65%	0.343%
53	10.551	1435	1439	1445	rVB	540664	608792	34.08%	2.517%
54	10.598	1445	1447	1448	rBV2	38320	31286	1.75%	0.129%
55	10.627	1448	1452	1455	rVB4	96883	128771	7.21%	0.532%
56	10.657	1455	1457	1459	rBV2	44198	39207	2.20%	0.162%
57	10.686	1459	1462	1463	rBV2	48694	46807	2.62%	0.194%
58	10.792	1474	1480	1483	rBV4	143372	258645	14.48%	1.069%
59	10.892	1492	1497	1505	rBV2	246551	343732	19.24%	1.421%
60	10.980	1510	1512	1514	rBV	40973	40899	2.29%	0.169%
61	11.098	1527	1532	1535	rBV2	222891	304394	17.04%	1.258%
62	11.127	1535	1537	1541	rVV	122331	128928	7.22%	0.533%
63	11.180	1543	1546	1549	rVV	113417	96899	5.43%	0.401%
64	11.363	1573	1577	1579	rBV	354434	332966	18.64%	1.377%
65	11.392	1579	1582	1590	rVB	349801	391476	21.92%	1.618%
66	11.498	1596	1600	1602	rBV	646470	732019	40.98%	3.026%
67	11.521	1602	1604	1610	rVB	1834290	1786144	100.00%	7.384%
68	11.574	1610	1613	1617	rBV	434138	495239	27.73%	2.047%
69	11.716	1634	1637	1639	rBV	186768	199882	11.19%	0.826%
70	11.827	1654	1656	1660	rVB	212718	175164	9.81%	0.724%
71	11.910	1668	1670	1675	rBV2	148615	229792	12.87%	0.950%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

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-BF032818.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	11.998	1682	1685	1688	rBV	446897	530983	29.73%	2.195%
73	12.027	1688	1690	1695	rVB	402245	411329	23.03%	1.701%
74	12.115	1701	1705	1707	rBV2	532566	630530	35.30%	2.607%
75	12.292	1733	1735	1740	rBV	212792	359090	20.10%	1.485%
76	12.557	1777	1780	1783	rBV2	343637	412891	23.12%	1.707%
77	12.721	1805	1808	1811	rBV	779491	762666	42.70%	3.153%
78	12.957	1845	1848	1853	rVB	1088666	1112464	62.28%	4.599%
79	13.904	2007	2009	2011	rBV	136448	120680	6.76%	0.499%
80	14.157	2047	2052	2054	rBV2	707117	1109265	62.10%	4.586%
81	14.180	2054	2056	2063	rVB	454540	554898	31.07%	2.294%
82	15.239	2232	2236	2251	rVB	275131	728229	40.77%	3.011%
83	15.562	2288	2291	2298	rVB	189288	278750	15.61%	1.152%
84	15.633	2299	2303	2310	rBV	286477	432027	24.19%	1.786%
85	15.698	2310	2314	2318	rBV	280956	372198	20.84%	1.539%
86	17.292	2579	2585	2593	rVB2	90175	234681	13.14%	0.970%
87	17.768	2661	2666	2678	rVB2	68854	188822	10.57%	0.781%

Sum of corrected areas: 24188700

LSC Report - Integrated Chromatogram

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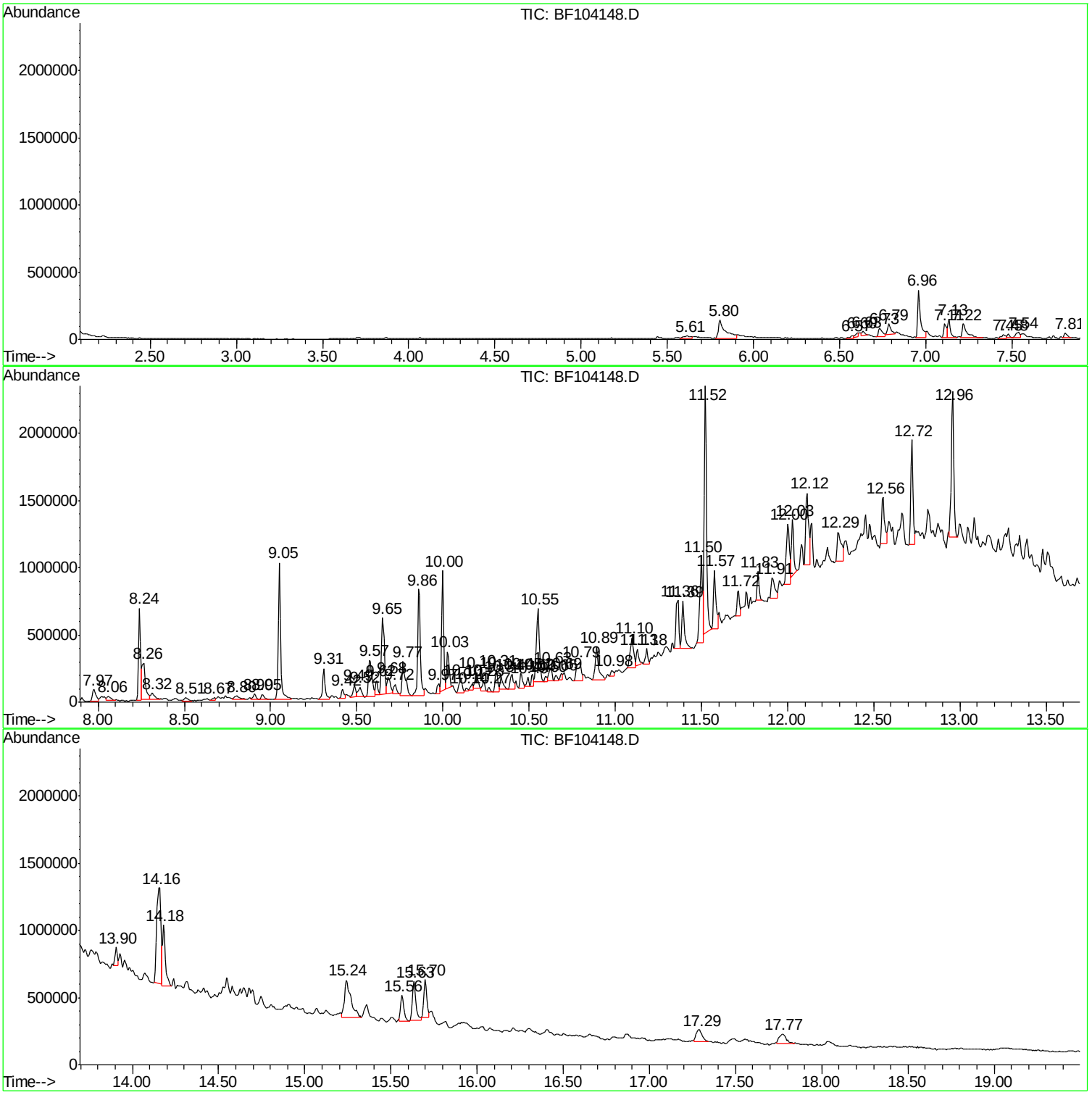
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.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 : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF040218\
Data File : BF104148.D
Acq On : 2 Apr 2018 20:56
Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

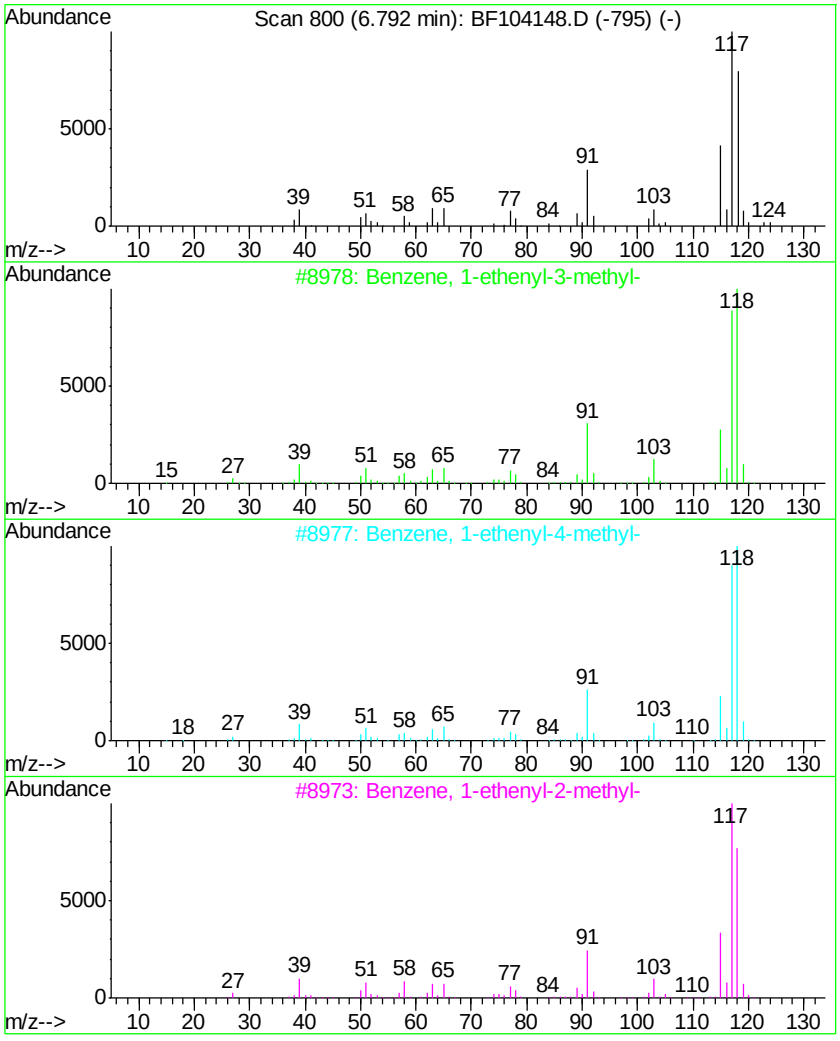
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

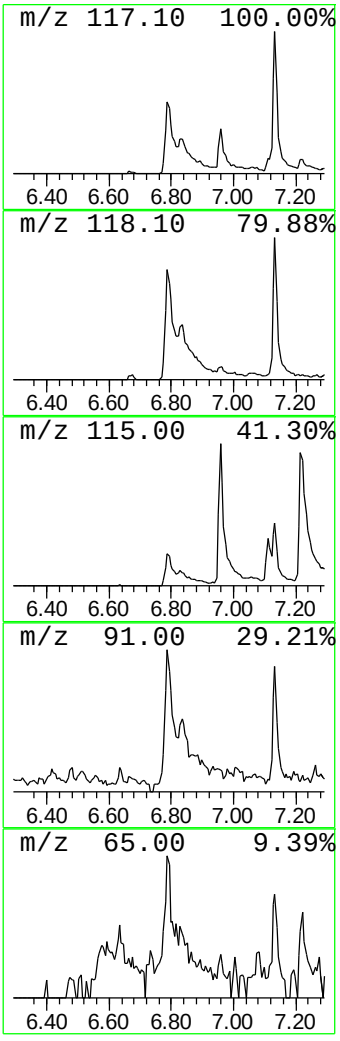
****

Peak Number 2 Benzene, 1-ethenyl-3-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.79	5.62 ng	124283	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	95
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	95
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	94
4	Benzene, 1-propenyl-	118	C9H10	000637-50-3	90
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	90





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Acq On : 2 Apr 2018 20:56
Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

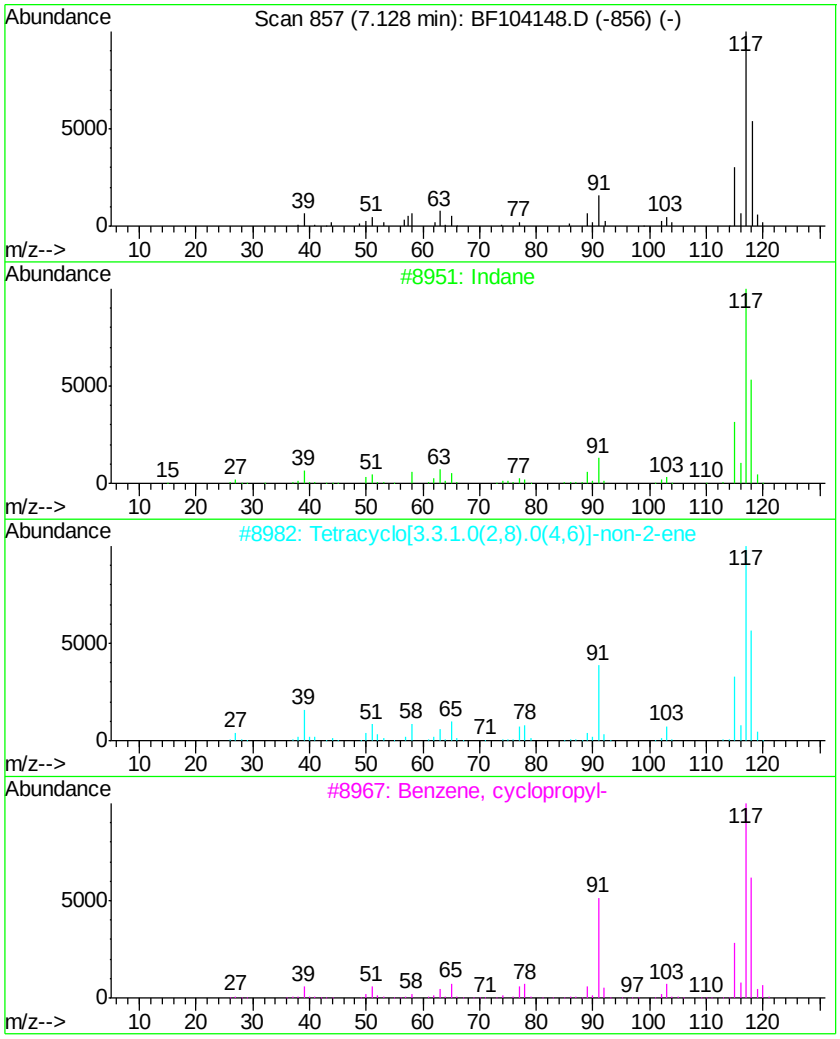
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

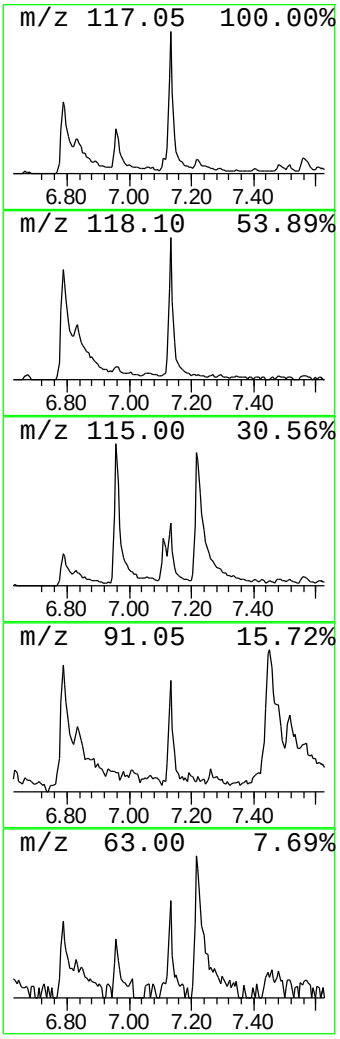
****

Peak Number 3 Indane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.13	6.22 ng	137384	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	87
2	Tetracyclo[3.3.1.0(2,8).0(4,6)]-...	118	C9H10	1000191-13-7	72
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	72
4	Deltacyclene	118	C9H10	007785-10-6	64
5	Benzene, 1,1'-(1,5-hexadiene-1,6...	234	C18H18	004439-45-6	59





Library Search Compound Report

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Instrument : BNA_F
ClientSampleId : DUP-032718

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

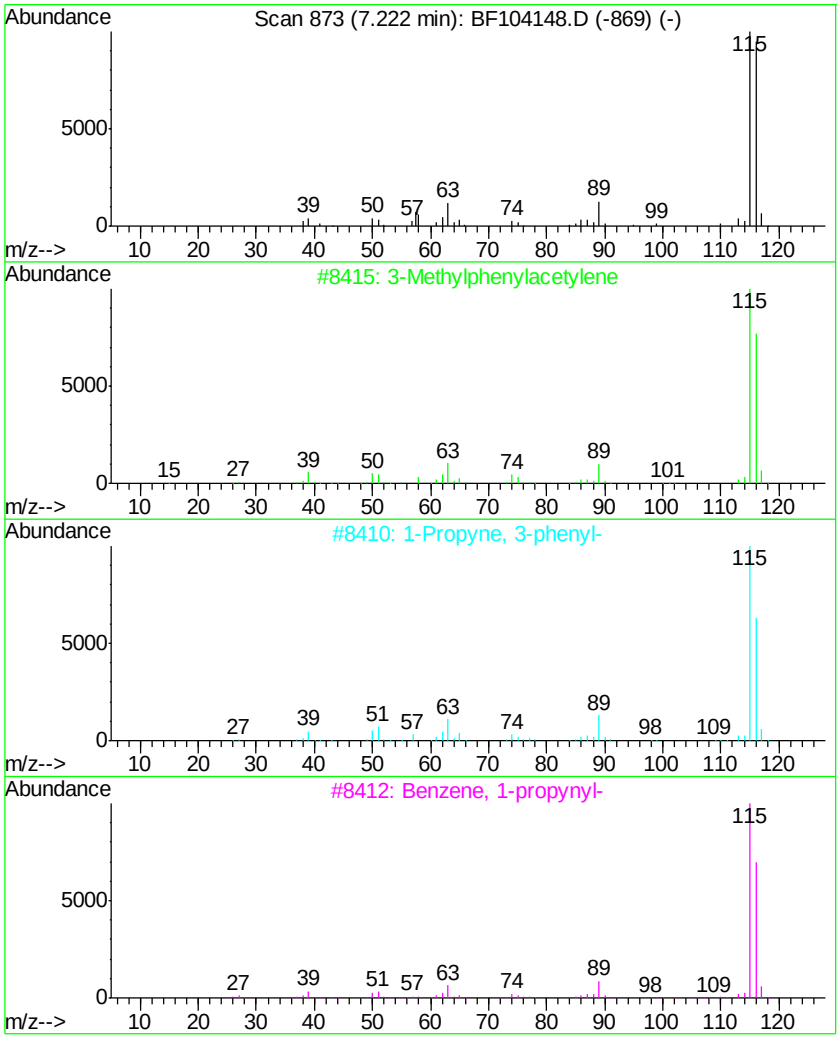
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

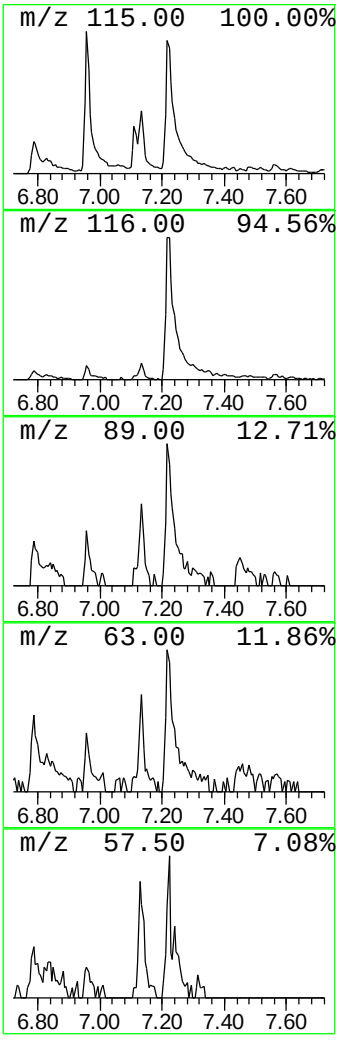
****

Peak Number 4 3-Methylphenylacetylene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.22	9.28 ng	205165	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylphenylacetylene	116	C9H8	000766-82-5	94
2	1-Propyne, 3-phenyl-	116	C9H8	010147-11-2	94
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
4	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
5	Indene	116	C9H8	000095-13-6	91





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Misc :
ALS Vial : 25 Sample Multiplier: 1

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

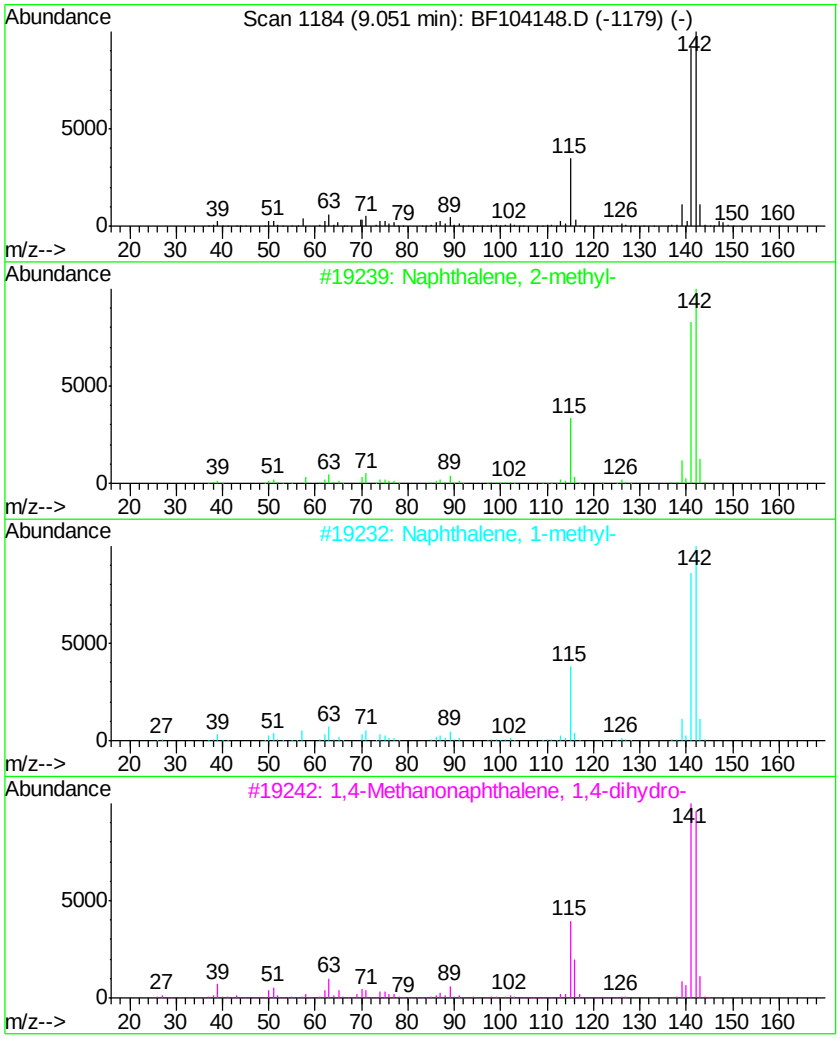
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

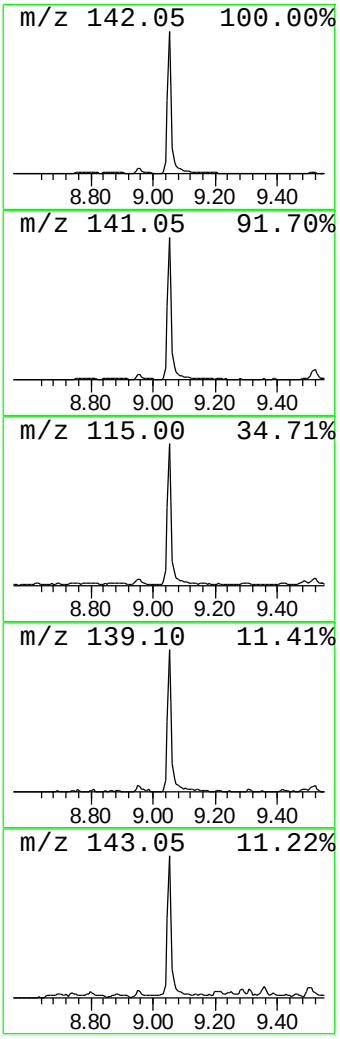
****

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.05	33.46 ng	1023220	Naphthalene-d8	8.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3	1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
4	Benzocycloheptatriene	142	C11H10	000264-09-5	91
5	1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	59





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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.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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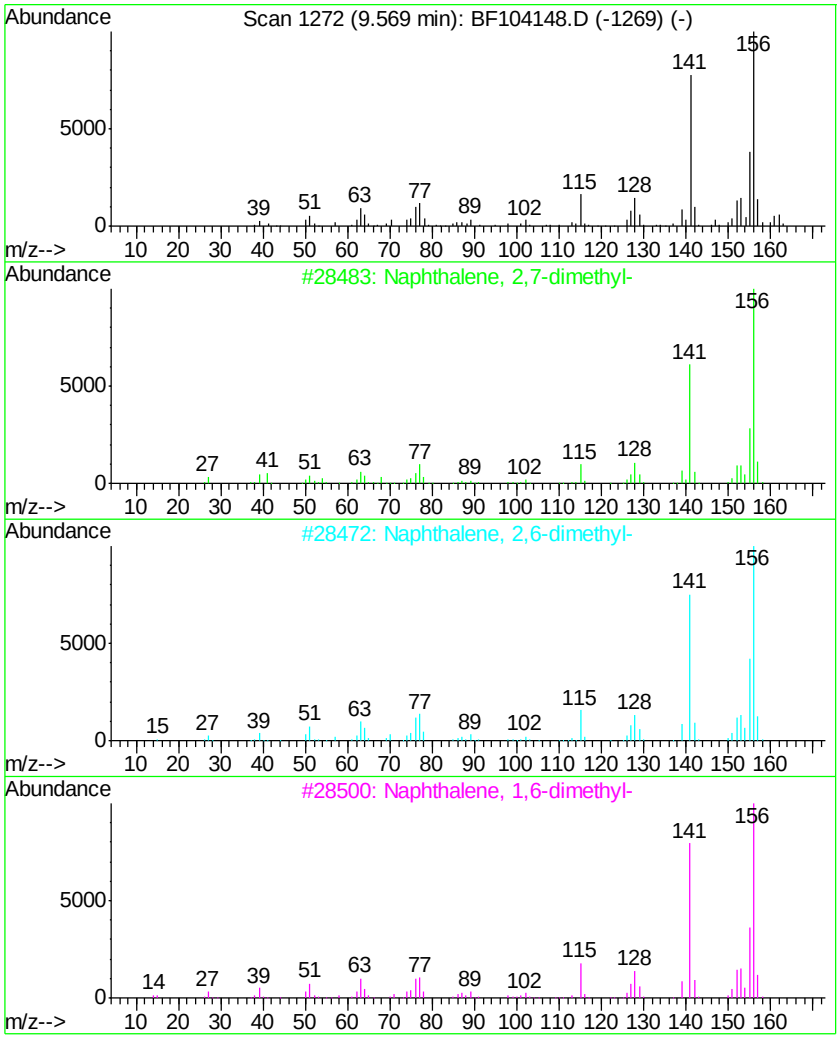
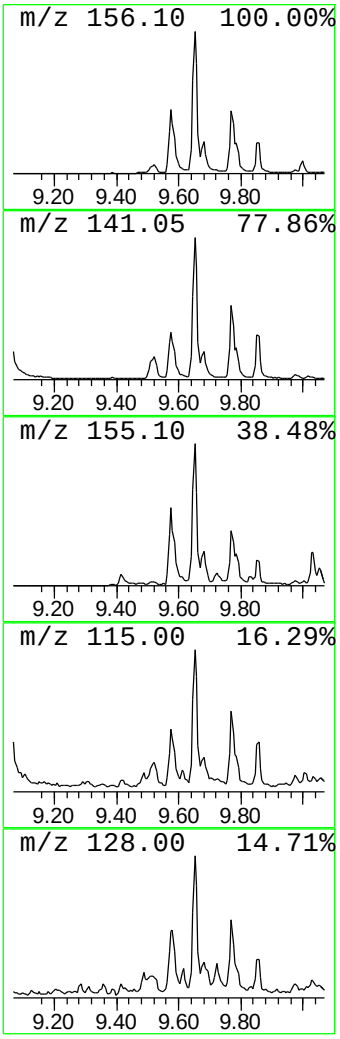
Peak Number 6 Naphthalene, 2,7-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.57	10.08 ng	395522	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	93





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Misc :
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.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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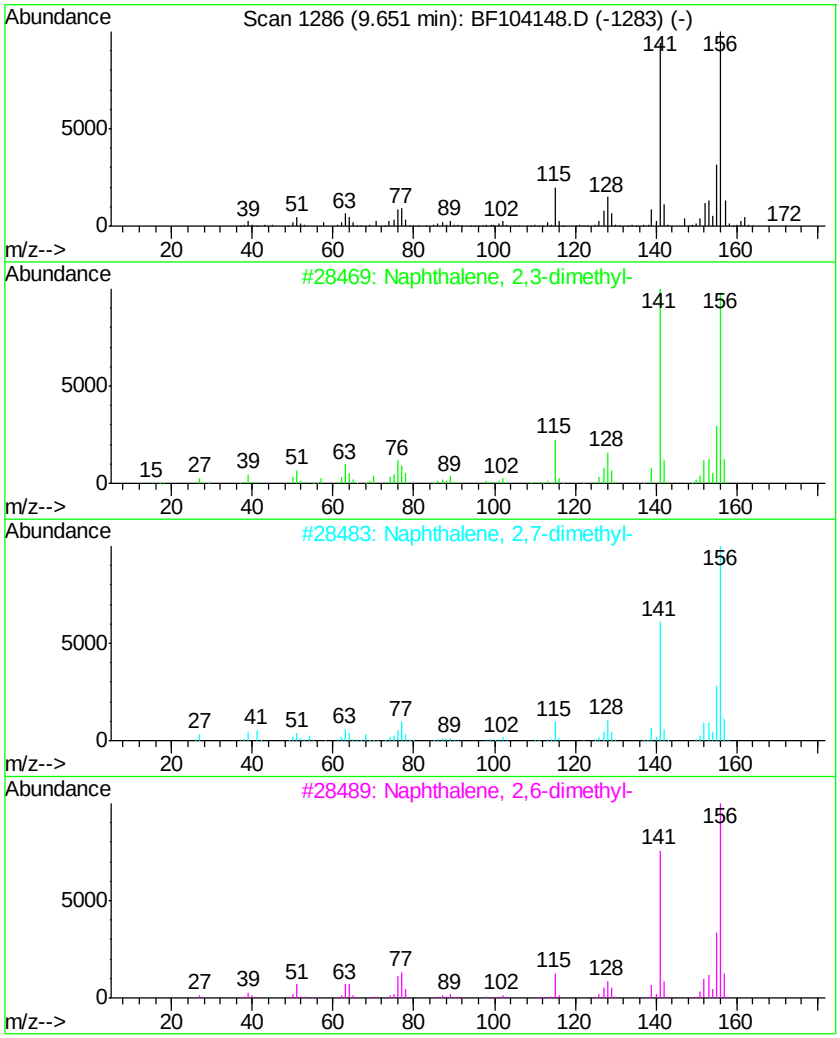
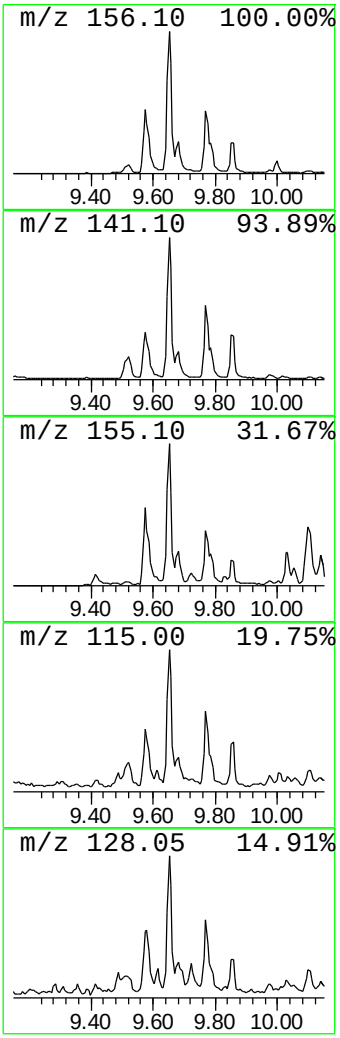
Peak Number 7 Naphthalene, 2,3-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	14.54 ng	570618	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97





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Sample : J2099-08 10X
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ClientSampleId : DUP-032718

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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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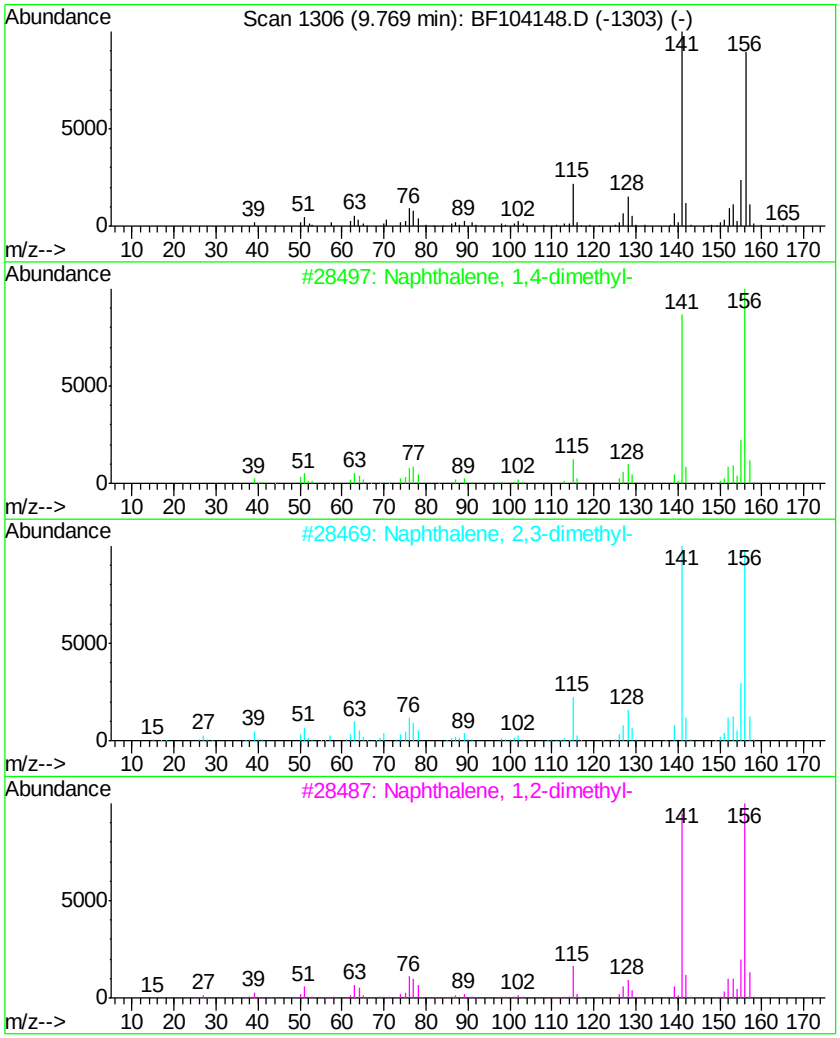
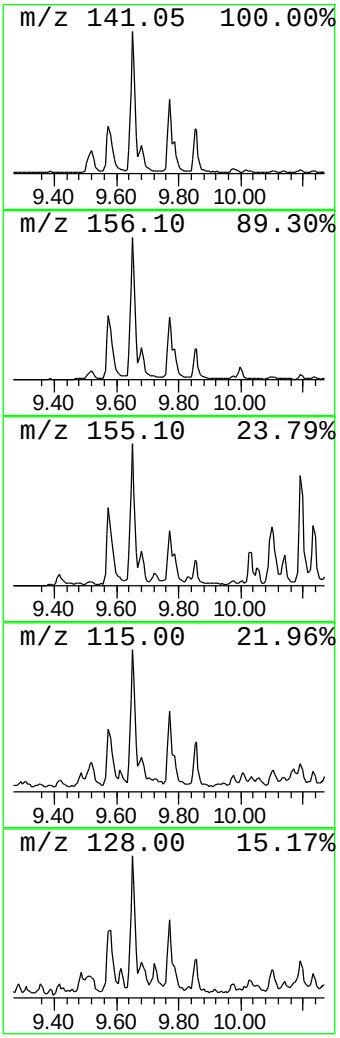
Peak Number 8 Naphthalene, 1,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.77	8.22 ng	322444	Acenaphthene-d10	10.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
3	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	94
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	94
5	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	93





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

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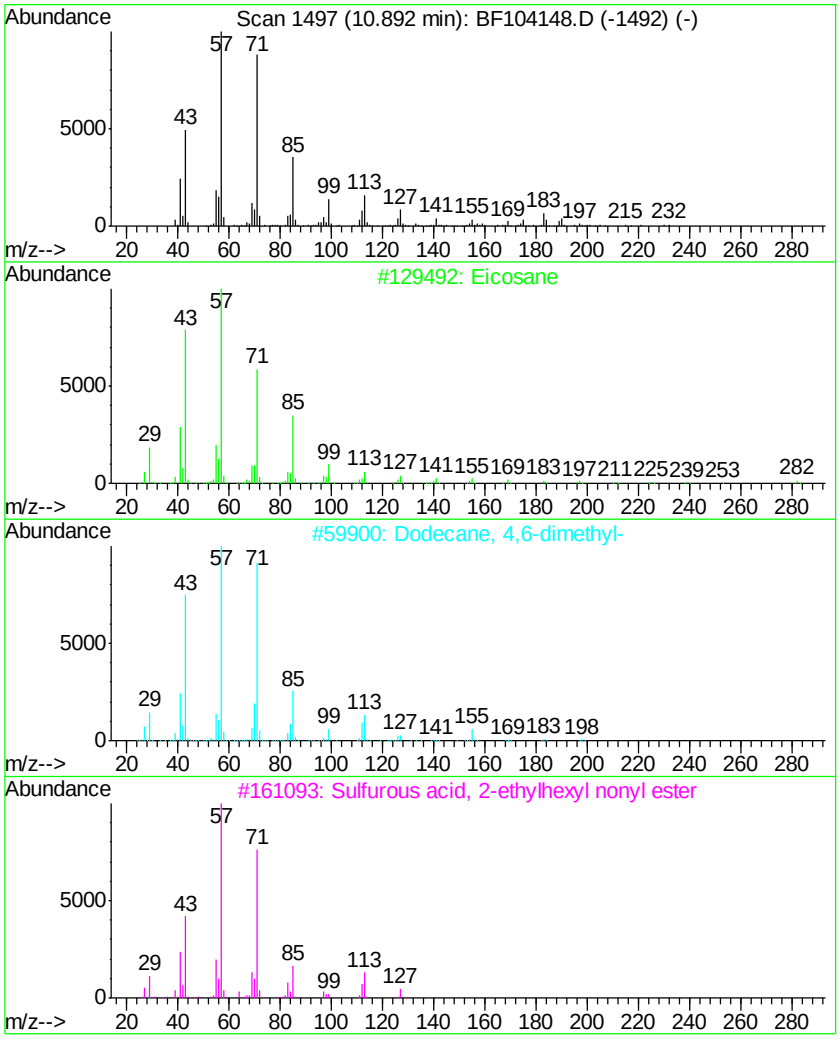
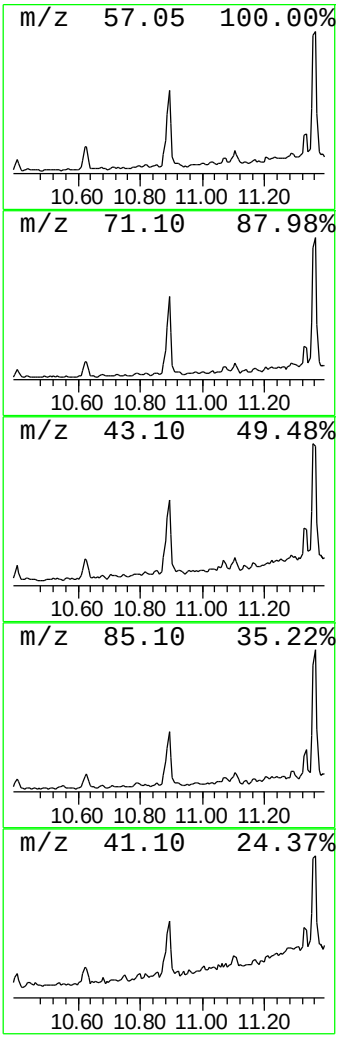
Peak Number 9 Eicosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	9.39 ng	343732	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	83
2	Dodecane, 4,6-dimethyl-	198	C14H30	061141-72-8	72
3	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1000309-19-2	64
4	Tridecane, 5-propyl-	226	C16H34	055045-11-9	64
5	Sulfurous acid, 2-ethylhexyl und...	348	C19H40O3S	1000309-19-4	64





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

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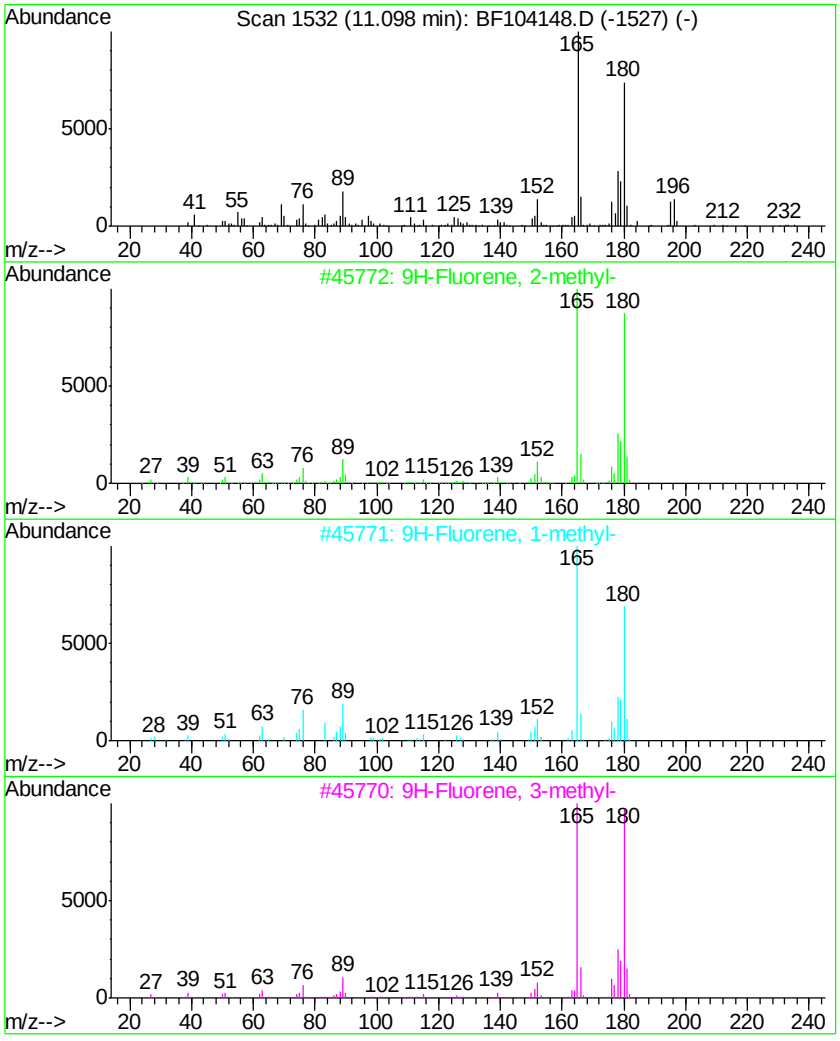
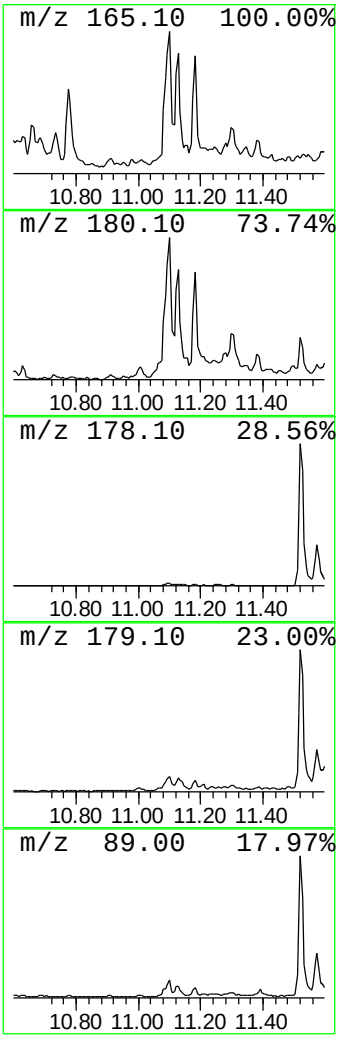
Peak Number 10 9H-Fluorene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	8.32 ng	304394	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76
5	(E)-Stilbene	180	C14H12	000103-30-0	70





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TIC Integration Parameters: LSCINT.P

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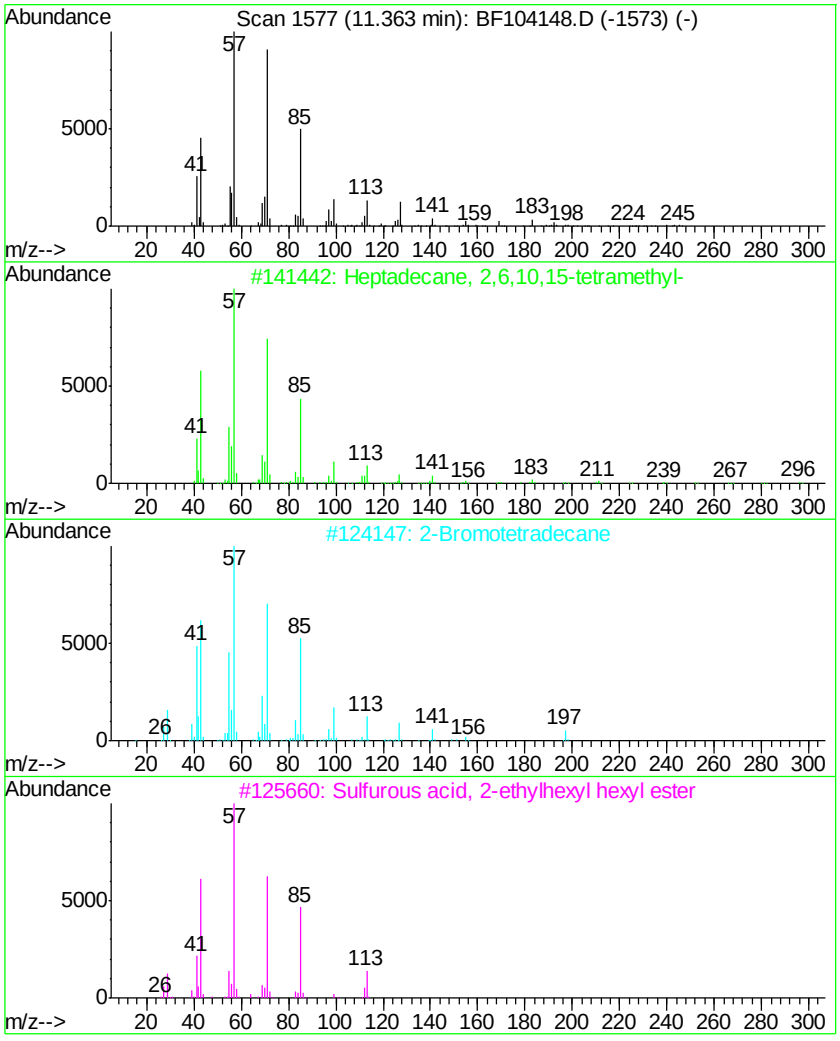
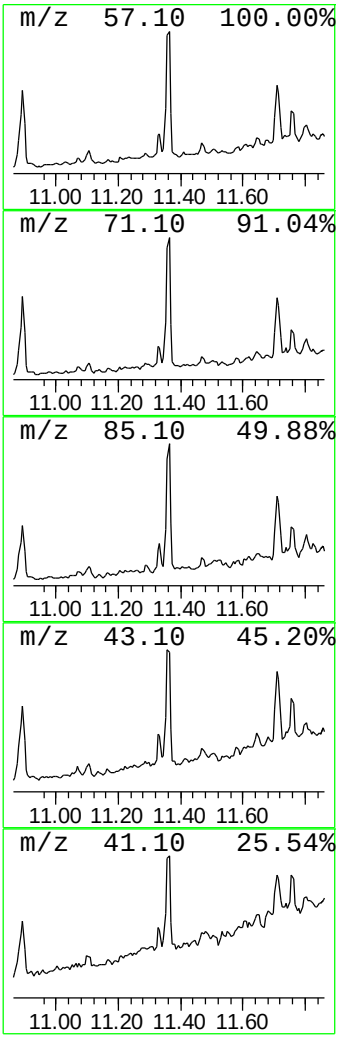
Peak Number 11 Heptadecane, 2,6,10,15-tetr... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.36	9.10 ng	332966	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	86
2	2-Bromotetradecane	276	C14H29Br	074036-95-6	80
3	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	72
4	Heptacosane	380	C27H56	000593-49-7	72
5	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72





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TIC Library : C:\DATABASE\NIST11.L
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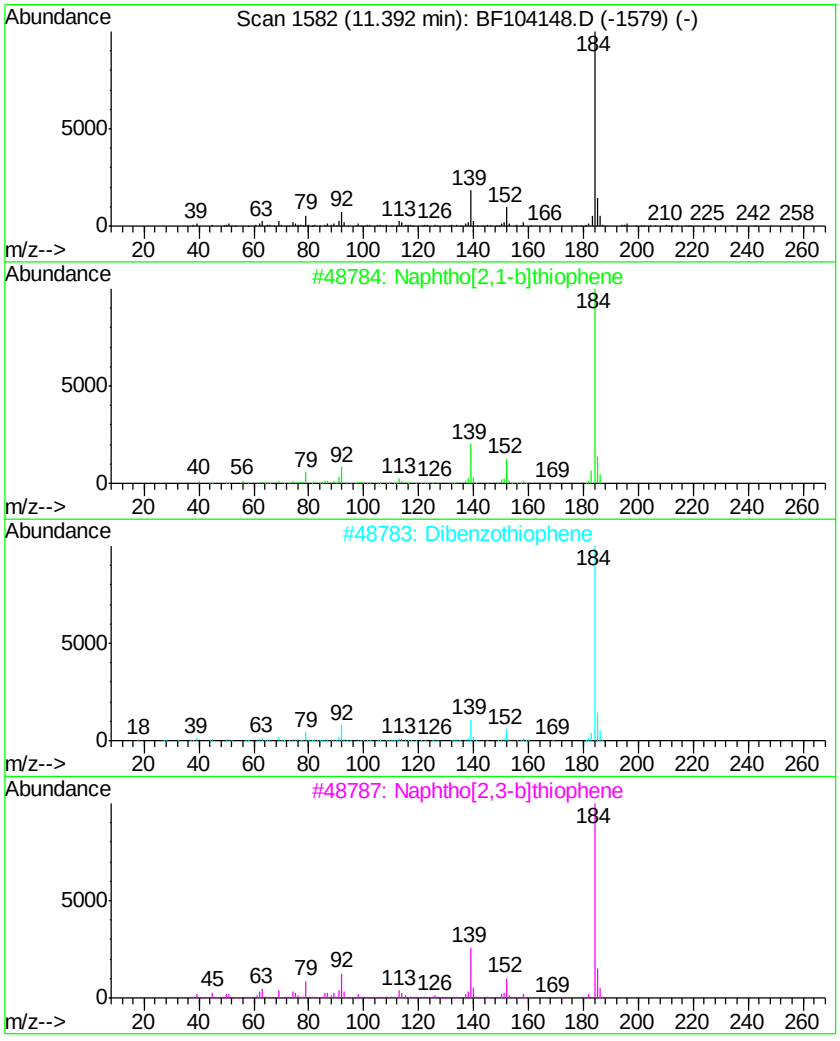
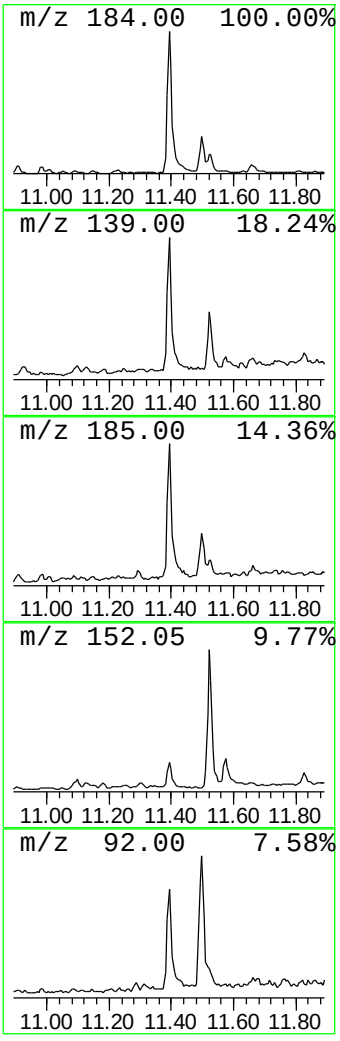
Peak Number 12 Naphtho[2,1-b]thiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.39	10.70 ng	391476	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	97
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91





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ALS Vial : 25 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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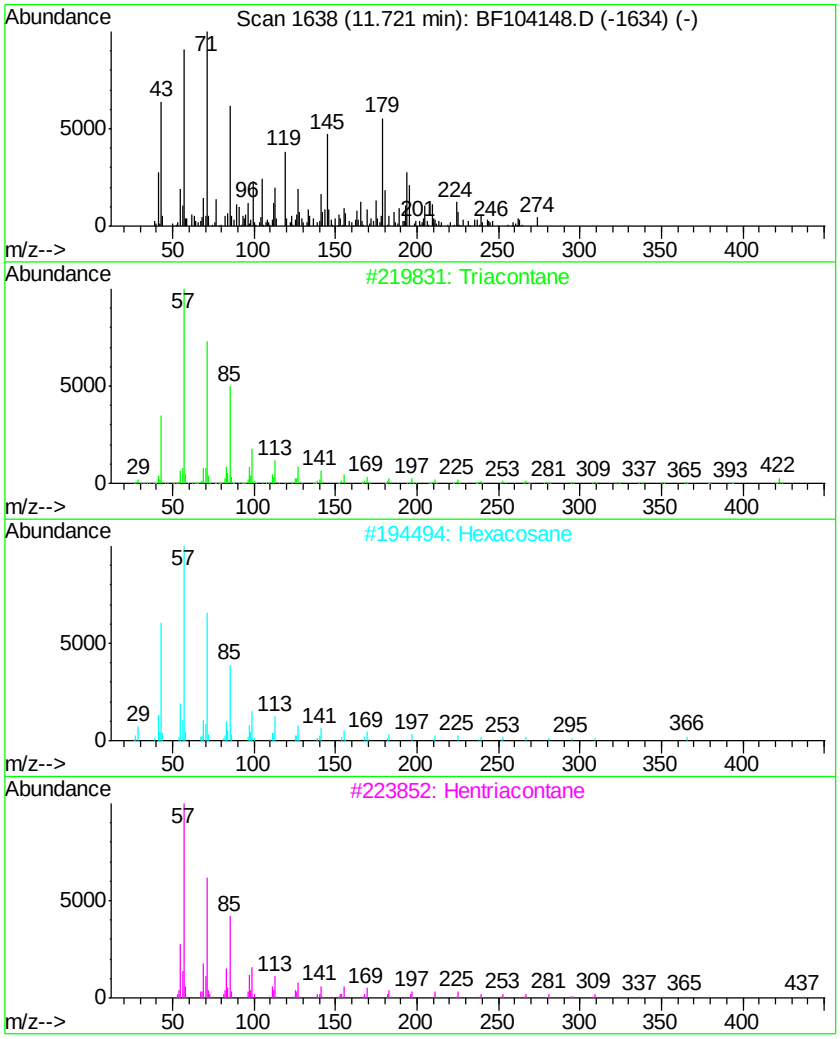
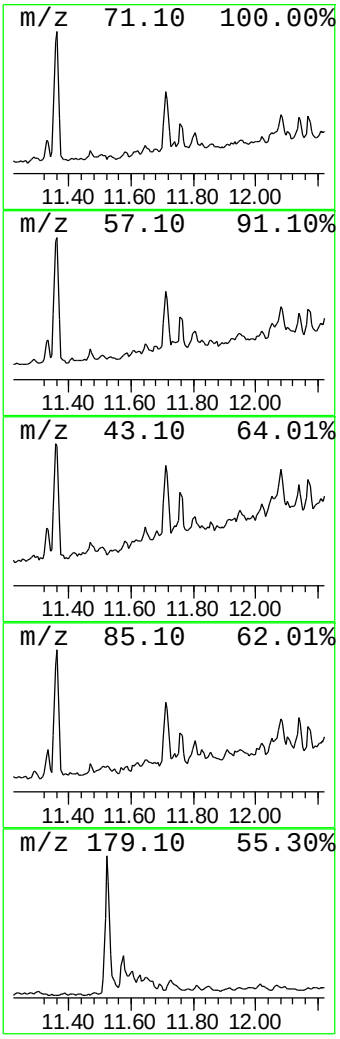
Peak Number 13 Triacontane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	5.46 ng	199882	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triacontane	422	C30H62	000638-68-6	87
2	Hexacosane	366	C26H54	000630-01-3	86
3	Hentriacontane	437	C31H64	000630-04-6	86
4	Bacchotricuneatin c	342	C20H22O5	066563-30-2	83
5	Octadecane	254	C18H38	000593-45-3	80





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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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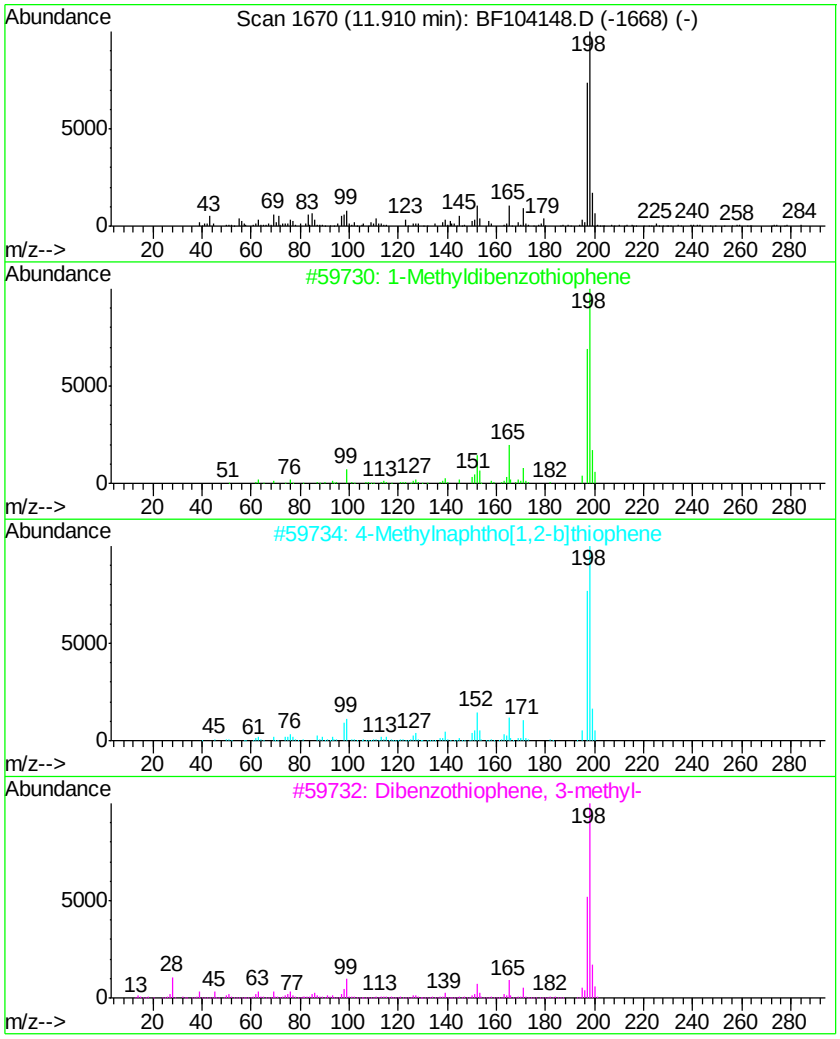
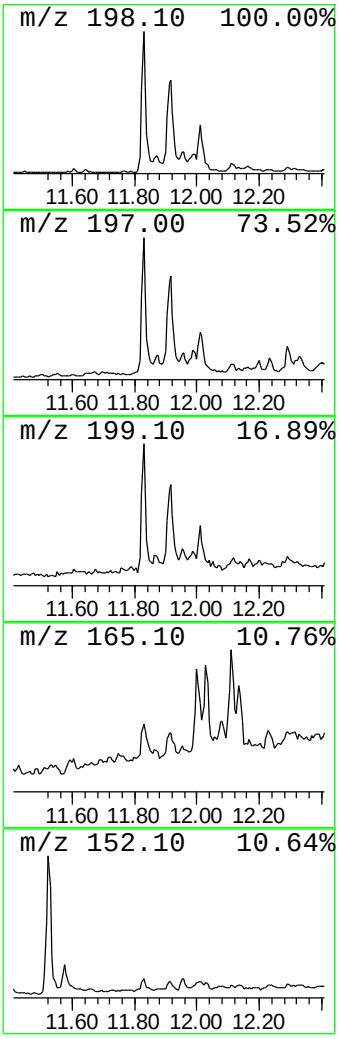
Peak Number 14 1-Methyldibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	6.28 ng	229792	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	95
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	94
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
4	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	91
5	Benzeneacetonitrile, 4-(1,2,3,6-...	198	C13H14N2	1000115-51-2	72





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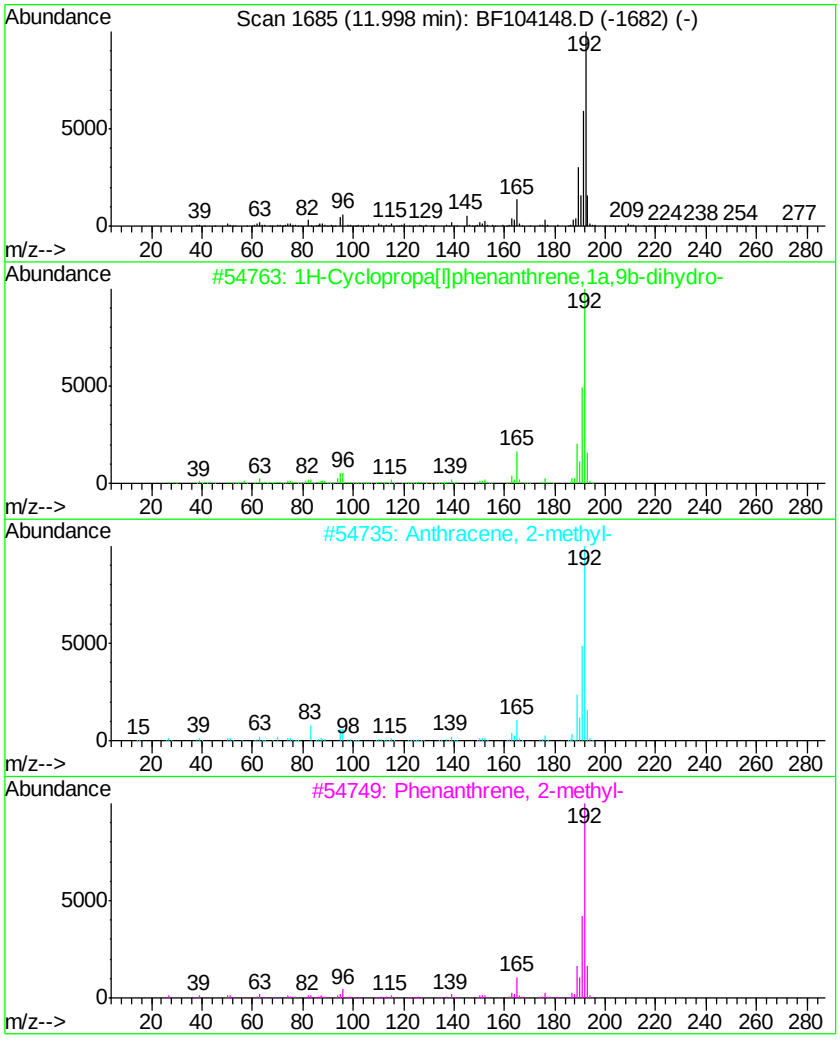
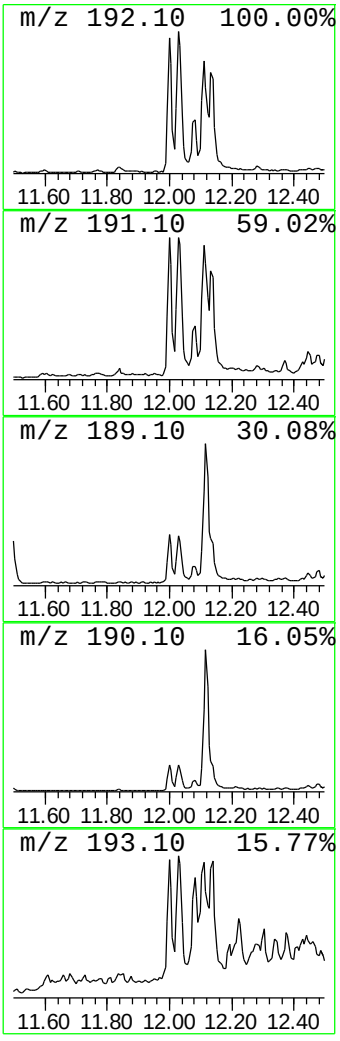
Peak Number 15 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	14.51 ng	530983	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93





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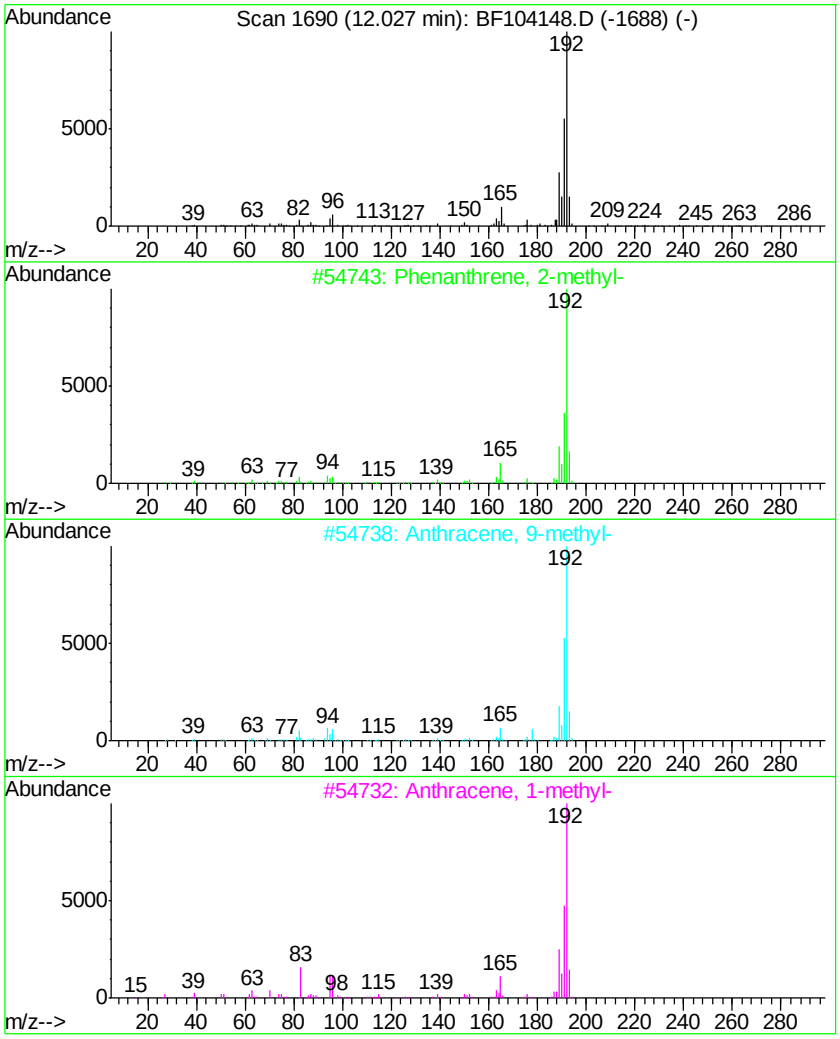
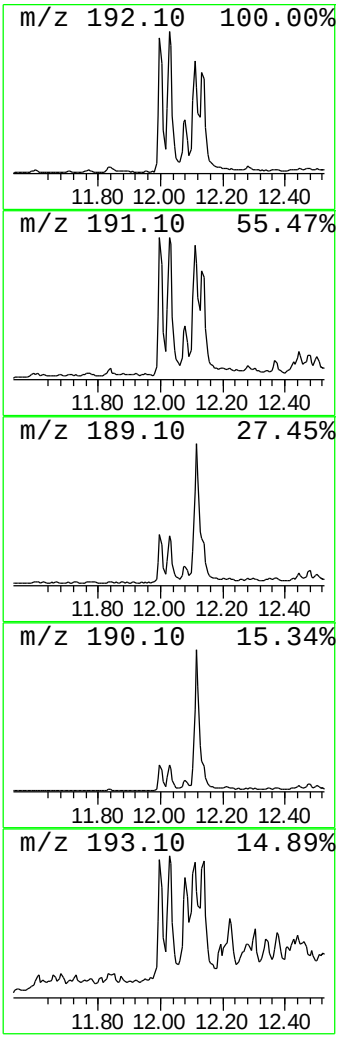
Peak Number 16 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	11.24 ng	411329	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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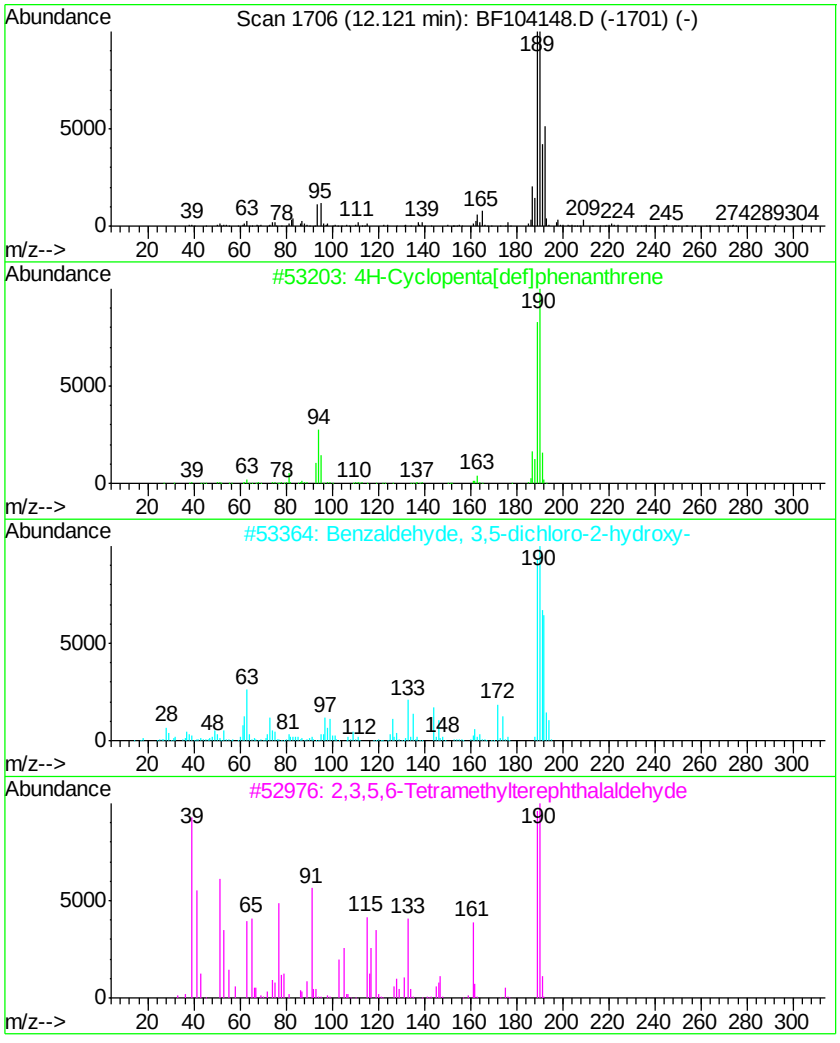
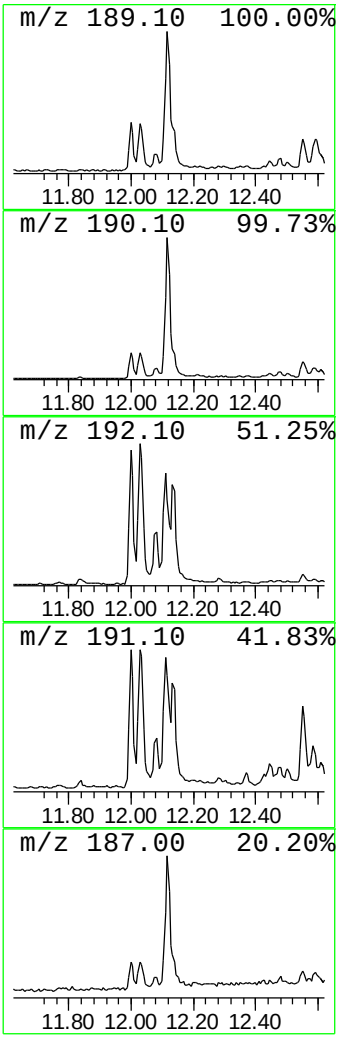
Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	17.23 ng	630530	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38





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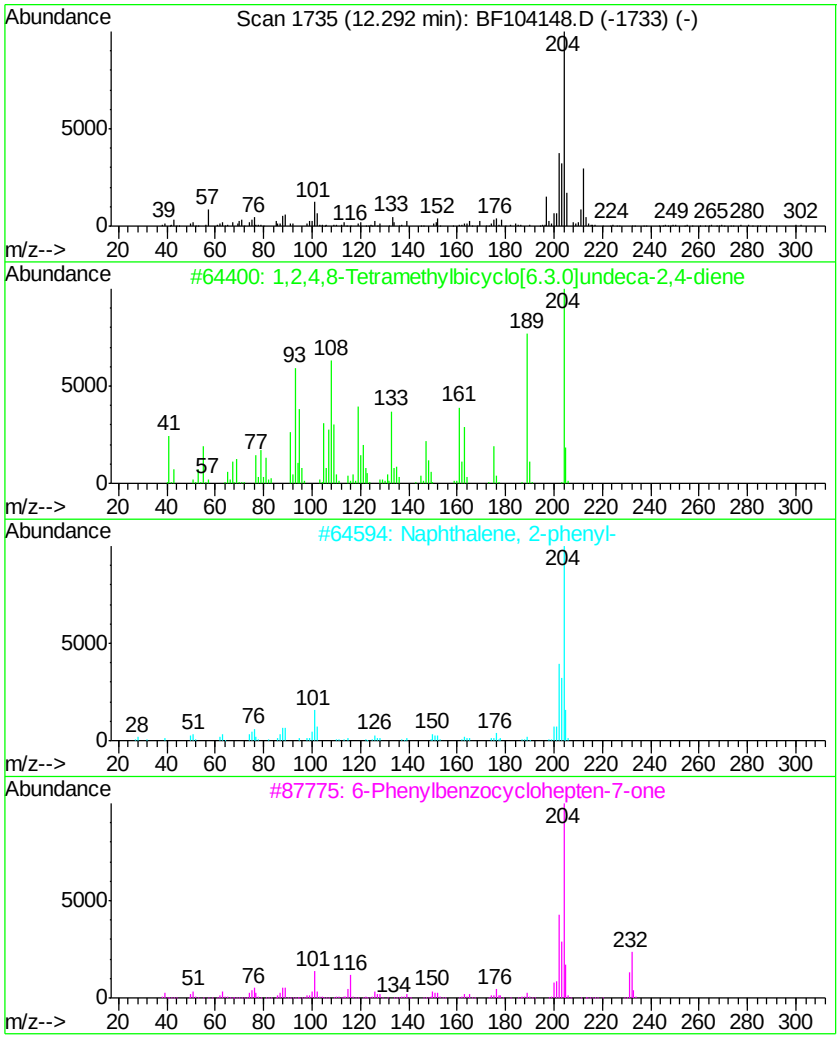
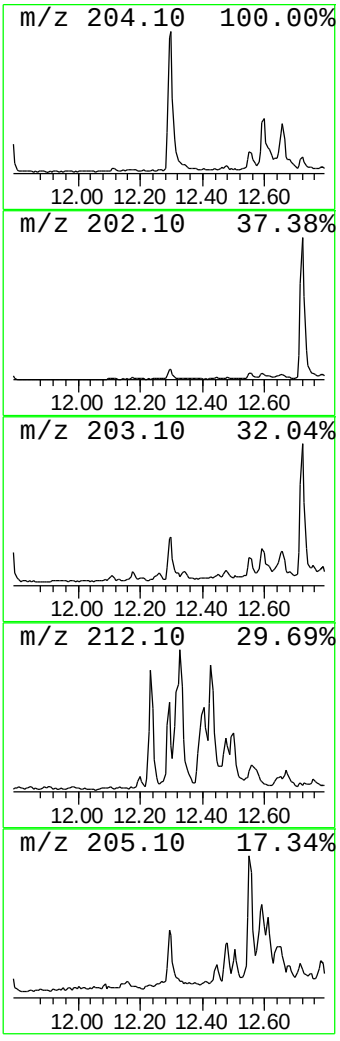
Peak Number 18 1,2,4,8-Tetramethylbicyclo[... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	9.81 ng	359090	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
3	6-Phenylbenzocycloheptен-7-one	232	C17H12O	093327-56-1	64
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58





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Acq On : 2 Apr 2018 20:56
Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

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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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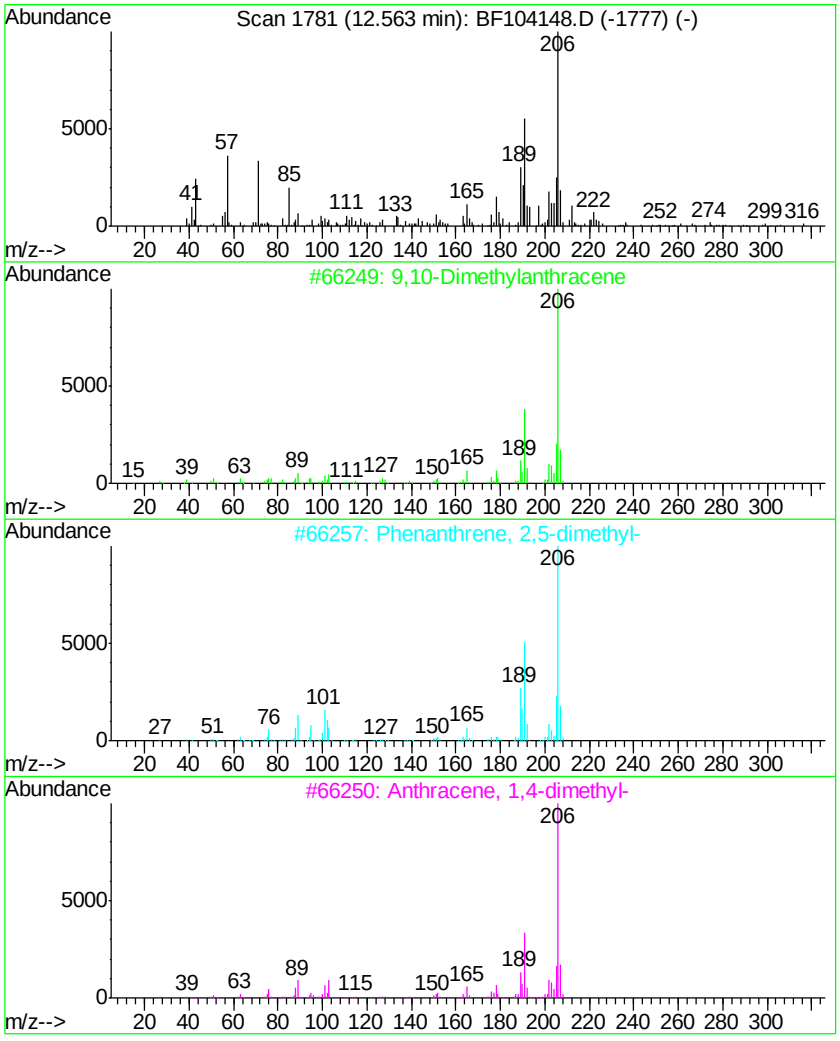
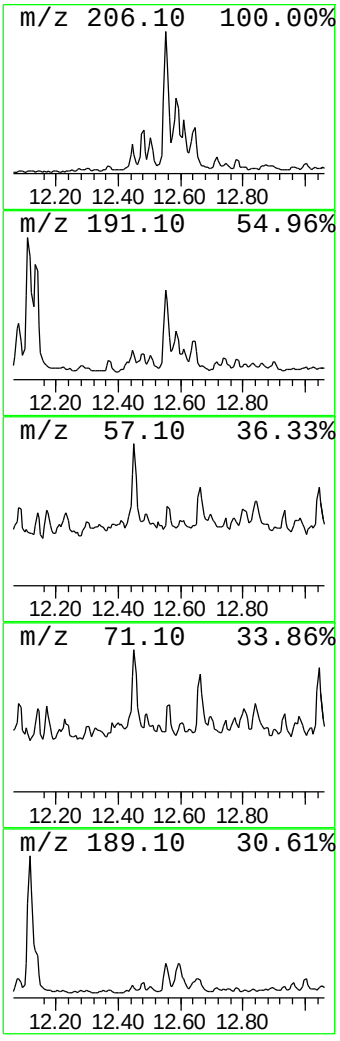
Peak Number 19 9,10-Dimethylanthracene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.56	11.28 ng	412891	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	98
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87





Library Search Compound Report

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF040218\
Data File : BF104148.D
Acq On : 2 Apr 2018 20:56
Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

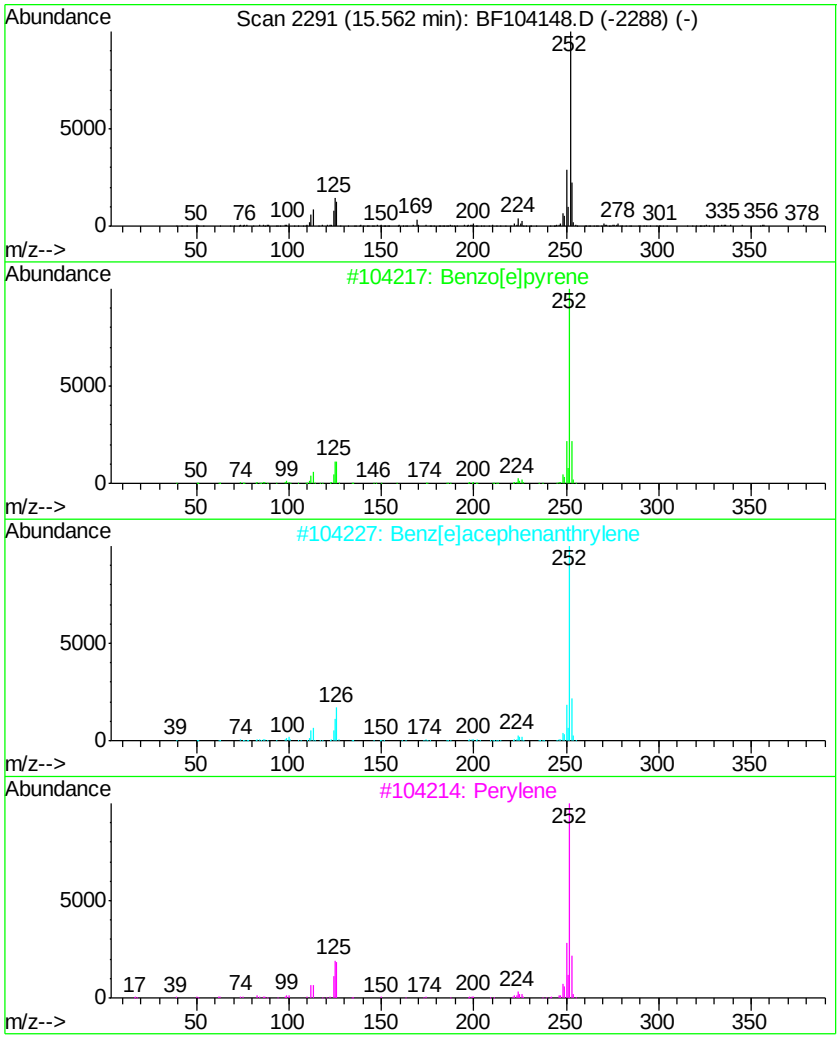
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

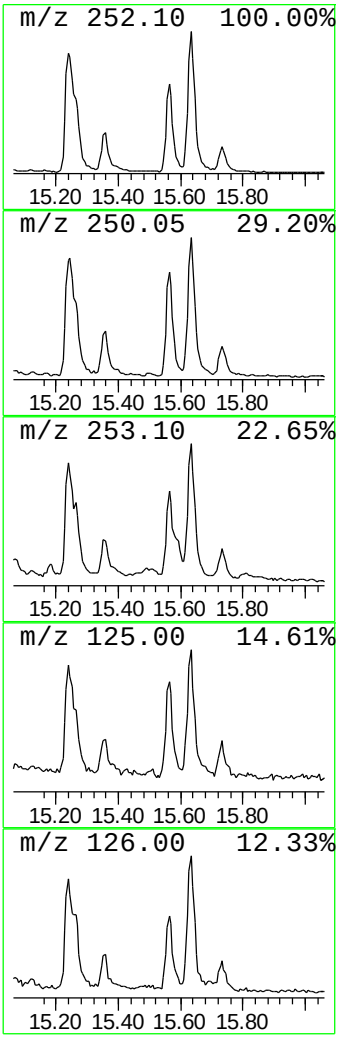
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.56	14.98 ng	278750	Perylene-d12	15.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
3	Perylene	252	C20H12	000198-55-0	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	91





Tentatively Identified Compound (LSC) summary

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA_F\DATA\BF040218\
Data File : BF104148.D
Acq On : 2 Apr 2018 20:56
Operator : JU/SJ
Sample : J2099-08 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : DUP-032718

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF032818.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
Benzene, 1-etheny...	6.79	5.6	ng	124283	1	6.96	442038	20.0
Indane	7.13	6.2	ng	137384	1	6.96	442038	20.0
3-Methylphenylace...	7.22	9.3	ng	205165	1	6.96	442038	20.0
Naphthalene, 1-me...	9.05	33.5	ng	1023220	2	8.24	611613	20.0
Naphthalene, 2,7-...	9.57	10.1	ng	395522	3	10.00	784782	20.0
Naphthalene, 2,3-...	9.65	14.5	ng	570618	3	10.00	784782	20.0
Naphthalene, 1,4-...	9.77	8.2	ng	322444	3	10.00	784782	20.0
Eicosane	10.89	9.4	ng	343732	4	11.50	732019	20.0
9H-Fluorene, 2-me...	11.10	8.3	ng	304394	4	11.50	732019	20.0
Heptadecane, 2,6,...	11.36	9.1	ng	332966	4	11.50	732019	20.0
Naphtho[2,1-b]thi...	11.39	10.7	ng	391476	4	11.50	732019	20.0
Triacontane	11.72	5.5	ng	199882	4	11.50	732019	20.0
1-Methyldibenzoth...	11.91	6.3	ng	229792	4	11.50	732019	20.0
1H-Cyclopropa[l]p...	12.00	14.5	ng	530983	4	11.50	732019	20.0
Phenanthrene, 2-m...	12.03	11.2	ng	411329	4	11.50	732019	20.0
4H-Cyclopenta[def...	12.12	17.2	ng	630530	4	11.50	732019	20.0
1,2,4,8-Tetrameth...	12.29	9.8	ng	359090	4	11.50	732019	20.0
9,10-Dimethylanth...	12.56	11.3	ng	412891	4	11.50	732019	20.0
Benzo[e]pyrene	15.56	15.0	ng	278750	6	15.70	372198	20.0