LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

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-BF102318.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	2.263	25	30	41	rVB	205467	263029	19.86%	1.155%
2	5.187	524	527	536	rVB	56194	63481	4.79%	0.279%
3	5.581	590	594	606	rBV	1404906	1303626	98.43%	5.724%
4	6.245	704	707	714	rVB	106003	91252	6.89%	0.401%
5	6.581	760	764	768	rBV	1379984	1324413	100.00%	5.815%
6	6.733	786	790	794	rBV	1621730	1319958	99.66%	5.795%
7	6.969	826	830	833	rBV	936116	741355	55.98%	3.255%
8	7.122	852	856	860	rBV	1248853	1029231	77.71%	4.519%
9	7.528	921	925	928	rBV	822241	707585	53.43%	3.107%
10	8.251	1044	1048	1051	rBV	1081223	854475	64.52%	3.752%
11	8.963	1166	1169	1173	rBV	43467	37869	2.86%	0.166%
12	9.063	1184	1186	1189	rVB	54028	43550	3.29%	0.191%
13	9.257	1213	1219	1225	rVB7	12652	17470	1.32%	0.077%
14	9.322	1227	1230	1234	rBV	1481860	1226735	92.62%	5.386%
15	9.392	1239	1242	1246	rBV3	20190	23588	1.78%	0.104%
16	9.427	1246	1248	1251	rVB	21273	16749	1.26%	0.074%
17	9.592	1271	1276	1281	rBV	57695	84727	6.40%	0.372%
18	9.663	1285	1288	1291	rBV	89896	88264	6.66%	0.388%
19	9.692	1291	1293	1295	rVV	56388	45651	3.45%	0.200%
20	9.716	1295	1297	1304	rVB	167316	141010	10.65%	0.619%
21	9.780	1304	1308	1310	rBV	41906	41913	3.16%	0.184%
22	9.869	1320	1323	1328	rBV	137521	124903	9.43%	0.548%
23	9.922	1328	1332	1336	rVB4	21601	21225	1.60%	0.093%
24	9.986	1340	1343	1344	rVV2	31933	30364	2.29%	0.133%
25	10.010	1344	1347	1350	rVV2	1003974	831888	62.81%	3.653%
26	10.045	1350	1353	1356	rVV	154354	138842	10.48%	0.610%
27	10.110	1360	1364	1368	rBV4	21797	31520	2.38%	0.138%
28	10.163	1368	1373	1377	rBV4	14810	27967	2.11%	0.123%
29	10.216	1378	1382	1385	rVV2	138249	139700	10.55%	0.613%
30	10.251	1385	1388	1392	rVB	46833	44695	3.37%	0.196%
31	10.321	1397	1400	1403	rBV	47312	51363	3.88%	0.226%
32	10.351	1403	1405	1410	rVB	39027	36766	2.78%	0.161%
33	10.416	1411	1416	1421	rBV4	38160	66925	5.05%	0.294%
34	10.504	1429	1431	1433	rVB	23374	18173	1.37%	0.080%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

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-BF102318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.557	1437	1440	1445	rVB	256907	254379	19.21%	1.117%
36	10.627	1447	1452	1453	rBV3	19785	28021	2.12%	0.123%
37	10.645	1453	1455	1457	rVB2	29163	22961	1.73%	0.101%
38	10.716	1462	1467	1470	rVV	66481	68194	5.15%	0.299%
39	10.798	1477	1481	1486	rBV	797471	712165	53.77%	3.127%
40	10.845	1487	1489	1494	rVB	20748	20495	1.55%	0.090%
41	10.916	1495	1501	1508	rVB4	44518	84868	6.41%	0.373%
42	10.968	1508	1510	1512	rBV	26036	24074	1.82%	0.106%
43	10.998	1512	1515	1520	rBV3	19584	29127	2.20%	0.128%
44	11.110	1528	1534	1536	rBV	88463	102055	7.71%	0.448%
45	11.133	1536	1538	1541	rVV2	41019	49408	3.73%	0.217%
46	11.192	1545	1548	1550	rVV	49561	45206	3.41%	0.198%
47	11.233	1550	1555	1557	rVV4	40605	48151	3.64%	0.211%
48	11.257	1557	1559	1564	rVV3	37055	43144	3.26%	0.189%
49	11.304	1564	1567	1571	rVV2	38614	41445	3.13%	0.182%
50	11.351	1571	1575	1577	rVV	49273	53333	4.03%	0.234%
51	11.398	1581	1583	1588	rVB	85585	71932	5.43%	0.316%
52	11.504	1597	1601	1603	rBV	964007	841134	63.51%	3.693%
53	11.527	1603	1605	1609	rVV	1159864	917577	69.28%	4.029%
54	11.580	1609	1614	1616	rVV	307041	266011	20.09%	1.168%
55	11.604	1616	1618	1622	rVB2	33250	46204	3.49%	0.203%
56	11.733	1635	1640	1642	rBV2	37839	50875	3.84%	0.223%
57	11.774	1645	1647	1649	rVV	30025	25549	1.93%	0.112%
58	11.833	1653	1657	1661	rVB	41198	46909	3.54%	0.206%
59	11.915	1668	1671	1677	rBV2	22348	27679	2.09%	0.122%
60	12.004	1683	1686	1689	rBV	176898	170663	12.89%	0.749%
61	12.033	1689	1691	1695	rVB	220982	178949	13.51%	0.786%
62	12.080	1696	1699	1702	rBV	82820	69443	5.24%	0.305%
63	12.121	1702	1706	1708	rBV2	220191	256031	19.33%	1.124%
64	12.186	1714	1717	1719	rBV	33596	29400	2.22%	0.129%
65	12.239	1723	1726	1728	rVB2	27439	24829	1.87%	0.109%
66	12.298	1733	1736	1739	rVV	93672	88734	6.70%	0.390%
67	12.327	1739	1741	1744	rVB2	42944	39295	2.97%	0.173%
68	12.427	1756	1758	1760	rBV3	21135	18381	1.39%	0.081%
69	12.451	1760	1762	1764	rVB	31937	21170	1.60%	0.093%
70	12.480	1764	1767	1770	rBV2	60697	80149	6.05%	0.352%
71	12.557	1777	1780	1782	rBV	119604	137160	10.36%	0.602%

LSC Area Percent Report

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Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

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-BF102318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.645	1792	1795	1799	rBV2	56101	88477	6.68%	0.388%
73	12.721	1804	1808	1811	rBV	1178460	956139	72.19%	4.198%
74	12.762	1812	1815	1816	rBV	32381	29851	2.25%	0.131%
75	12.815	1821	1824	1826	rBV	94314	73516	5.55%	0.323%
76	12.874	1832	1834	1836	rVB	33831	20925	1.58%	0.092%
77	12.951	1844	1847	1853	rVB	851315	822942	62.14%	3.613%
78	12.998	1853	1855	1859	rVB2	72255	76302	5.76%	0.335%
79	13.086	1864	1870	1873	rBV	1426243	1277521	96.46%	5.609%
80	13.162	1880	1883	1886	rBV3	85117	135145	10.20%	0.593%
81	13.192	1886	1888	1891	rVB2	121547	102291	7.72%	0.449%
82	13.280	1900	1903	1905	rVB	175940	162923	12.30%	0.715%
83	13.345	1911	1914	1917	rBV	161278	133557	10.08%	0.586%
84	13.386	1918	1921	1923	rVB2	76937	76334	5.76%	0.335%
85	14.151	2046	2051	2054	rBV2	963450	1238738	93.53%	5.439%
86	14.180	2054	2056	2062	rVB	357570	333788	25.20%	1.466%
87	15.227	2231	2234	2240	rBV	220143	371698	28.07%	1.632%
88	15.615	2297	2300	2306	rVB	195263	246445	18.61%	1.082%
89	15.680	2308	2311	2316	rVB2	433827	563771	42.57%	2.475%

Sum of corrected areas: 22775725

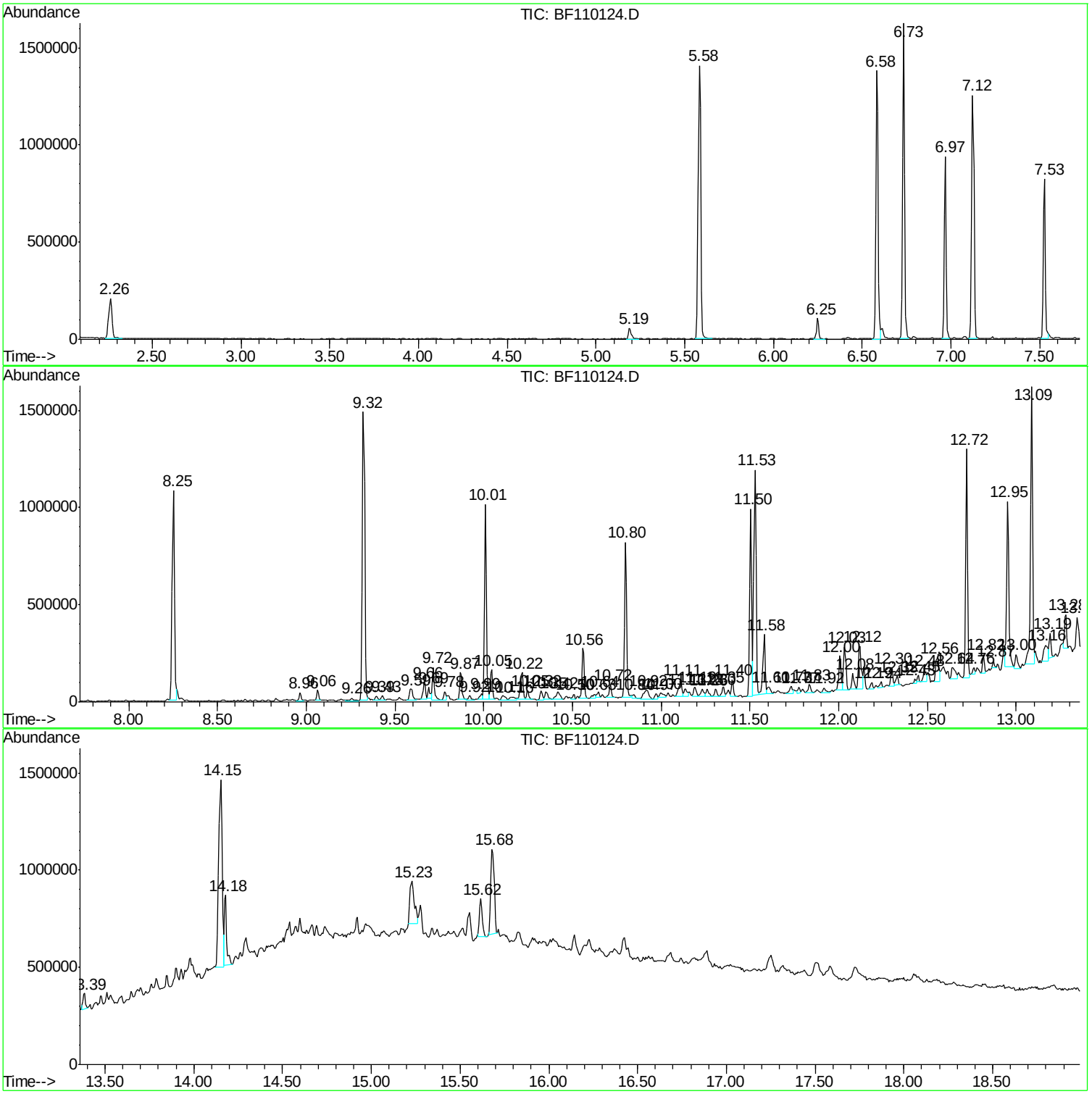
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

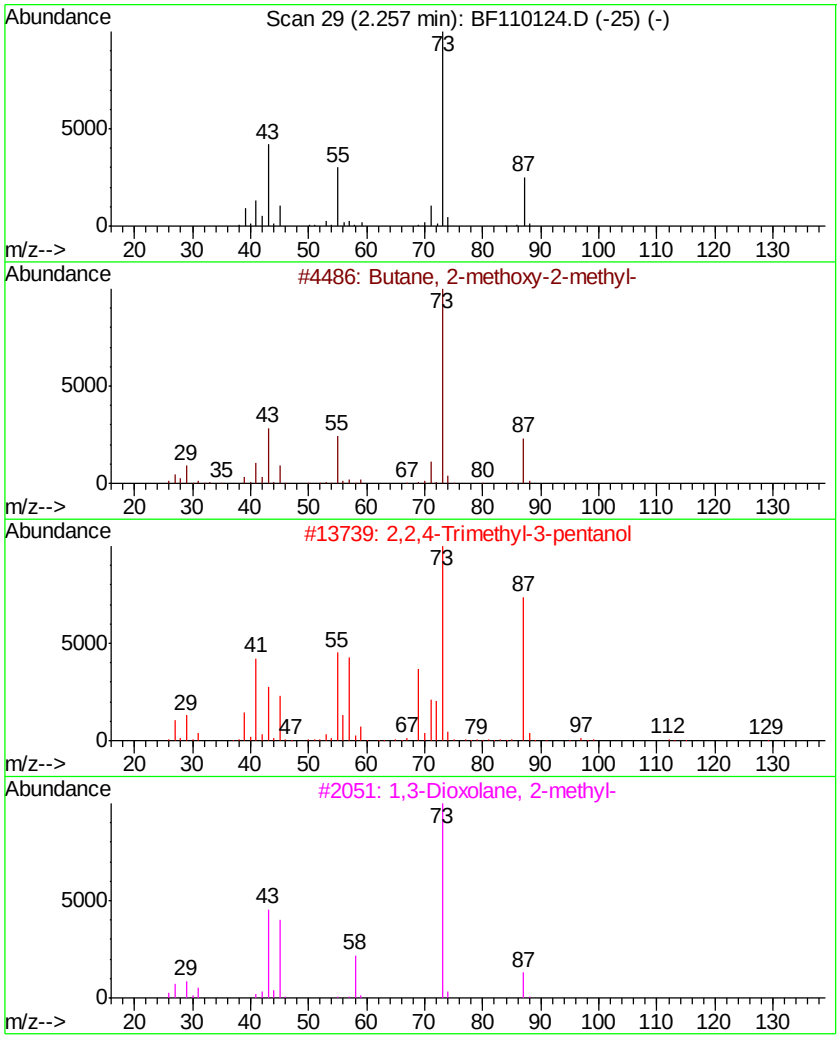
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

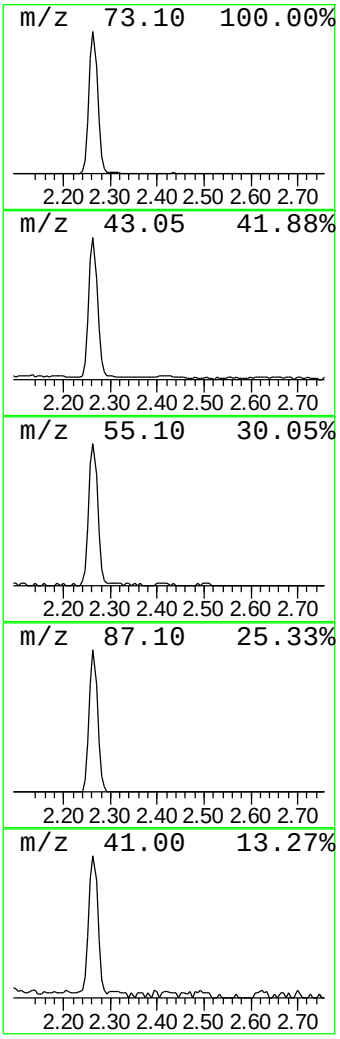
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.26	7.10 ng	263029	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	1-Propene-1-thiol	74	C3H6S	000925-89-3	12
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

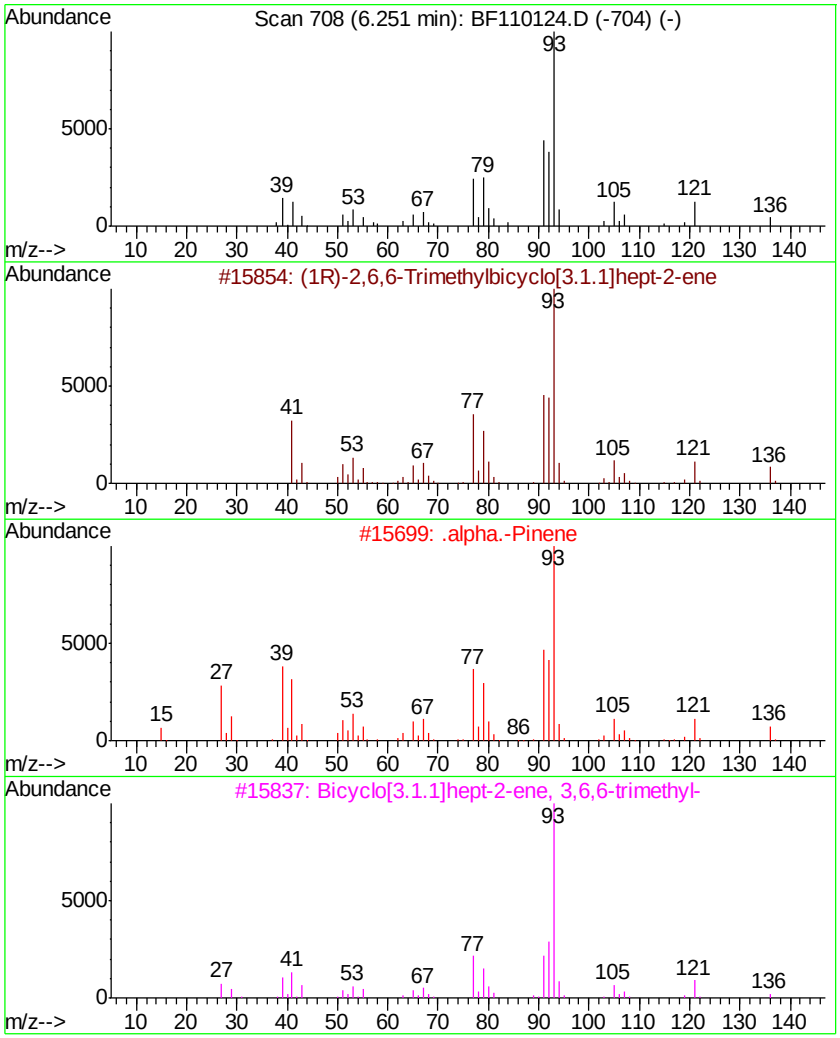
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

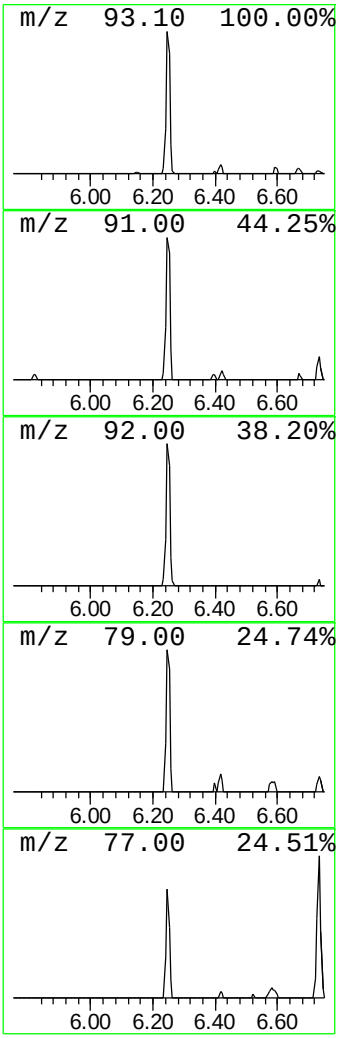
****

Peak Number 2 (1R)-2,6,6-Trimethylbicyclo... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.25	2.46 ng	91252	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	95
2	.alpha.-Pinene	136	C10H16	000080-56-8	94
3	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	94
4	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000508-32-7	91
5	(+)-3-Carene	136	C10H16	000498-15-7	87





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

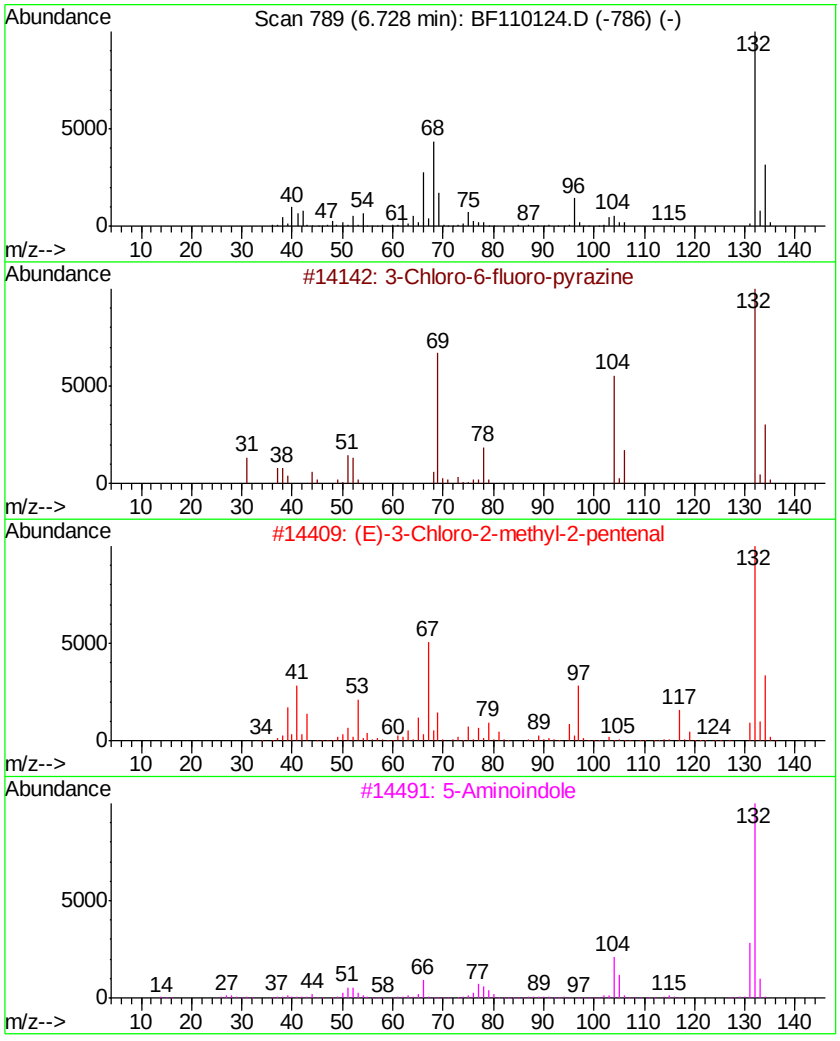
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

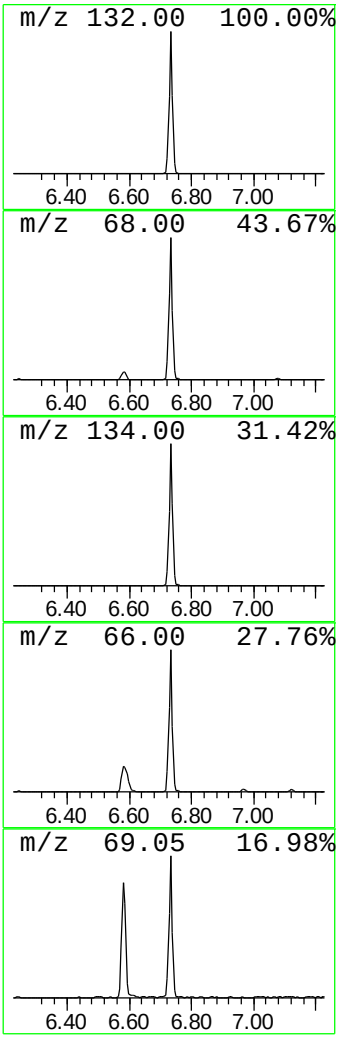
****

Peak Number 3 unknown6.73 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.73	35.61 ng	1319960	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3	5-Aminoindole	132	C8H8N2	005192-03-0	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

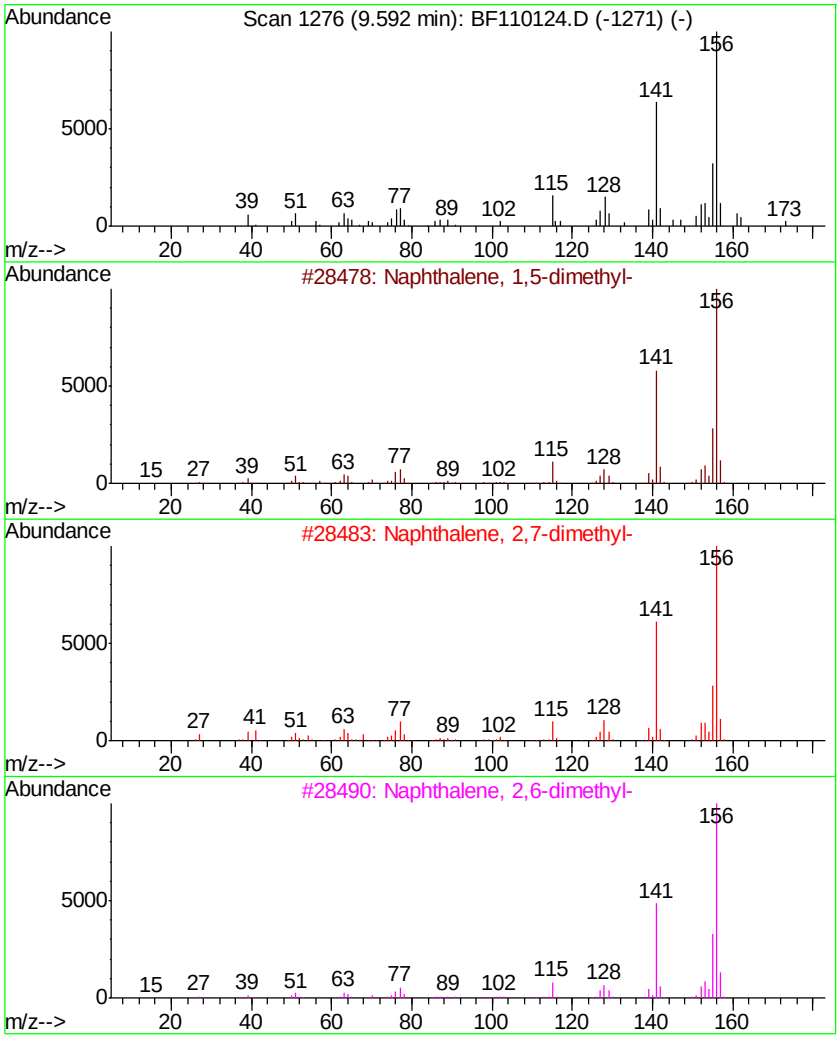
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

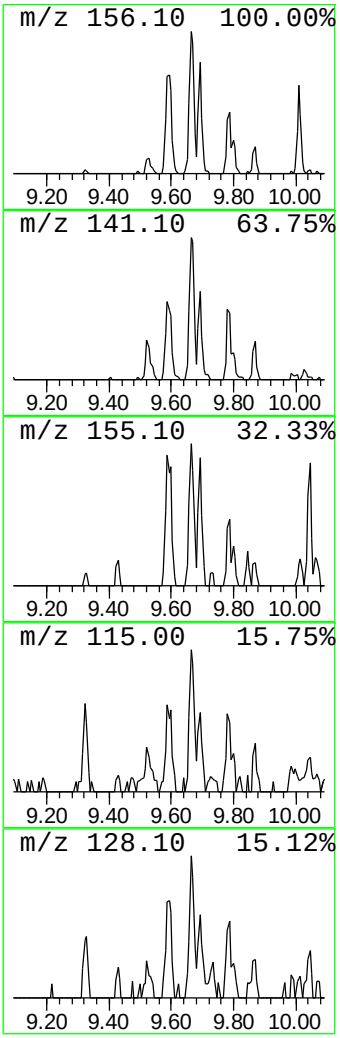
****

Peak Number 5 Naphthalene, 1,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.59	2.04 ng	84727	Acenaphthene-d10	10.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
4	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

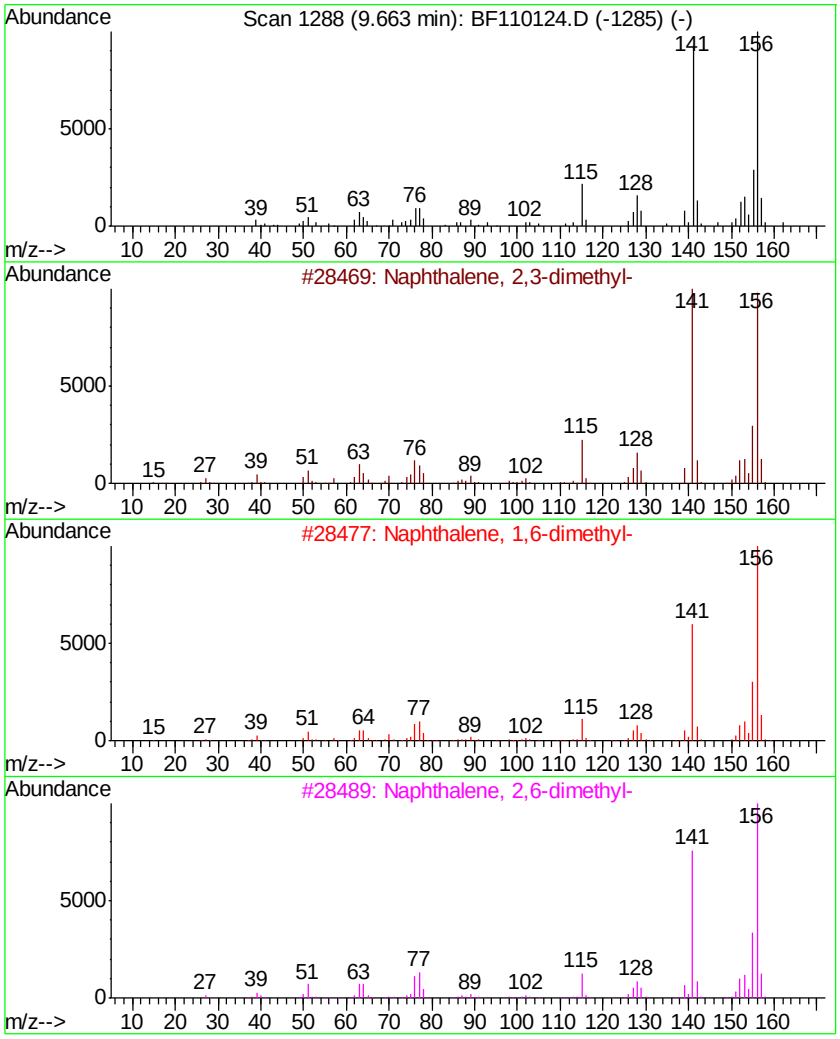
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

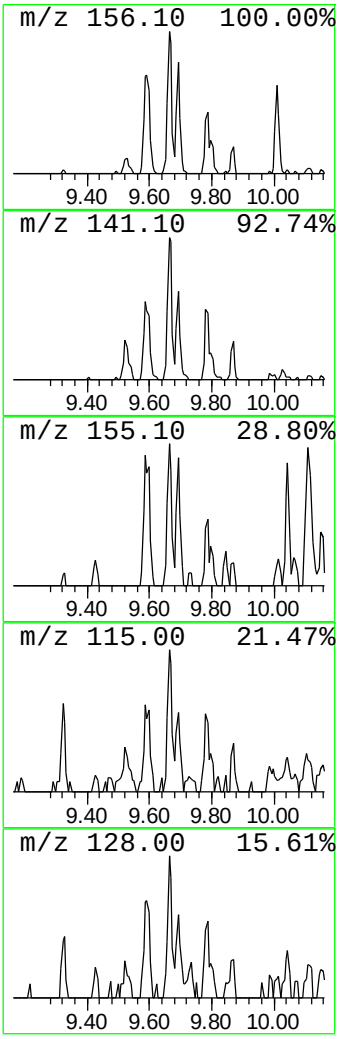
****

Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.66	2.12 ng	88264	Acenaphthene-d10	10.01

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

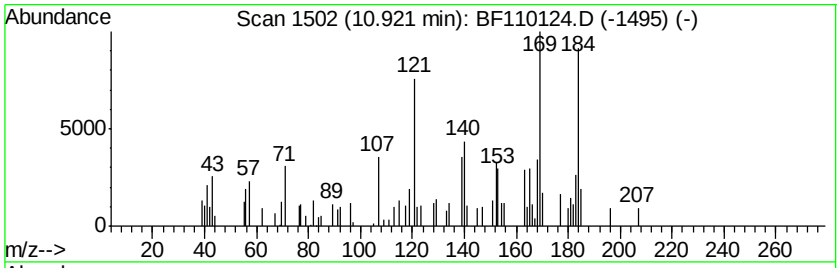
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

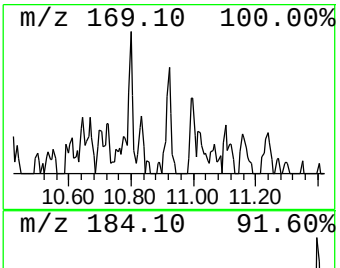
****

Peak Number 7 unknown10.92 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.92	2.02 ng	84868	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,5-Dibutylnonane	240	C17H36	006008-17-9	22
2	Hexadecane, 2,6,10-trimethyl-	268	C19H40	055000-52-7	22
3	Dodecane	170	C12H26	000112-40-3	11
4	4-Heptanone, 3-methyl-	128	C8H16O	015726-15-5	11
5	Eicosane	282	C20H42	000112-95-8	10





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

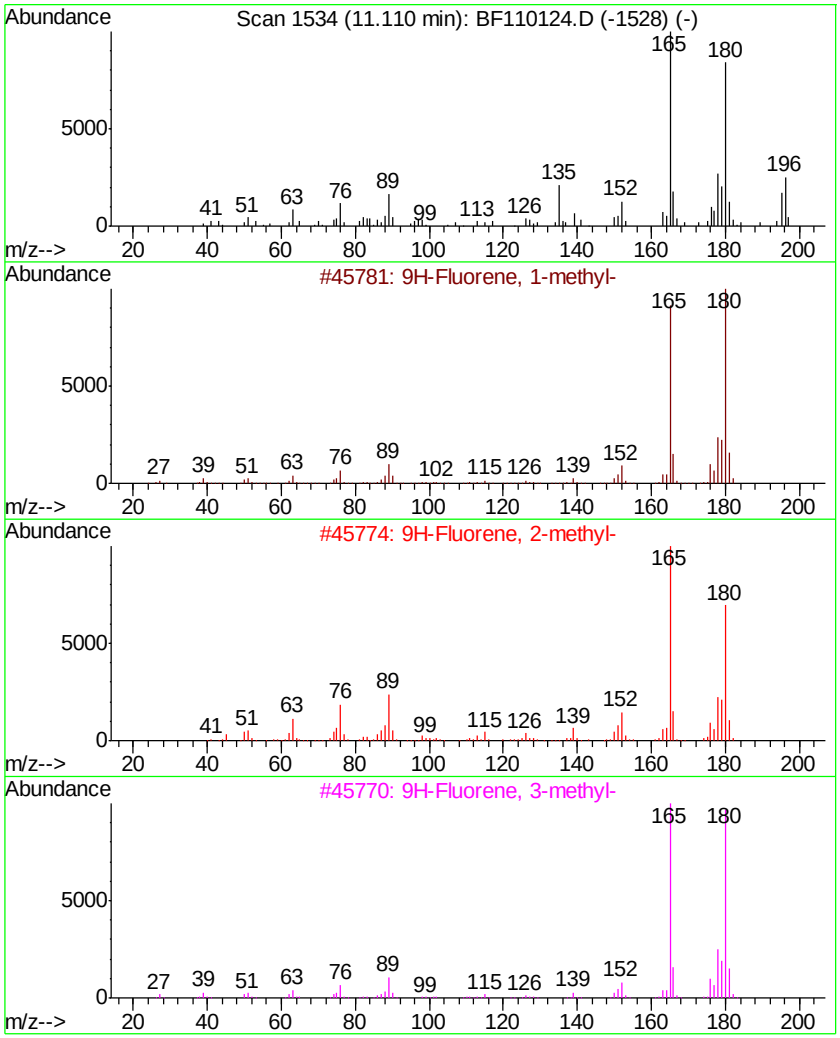
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

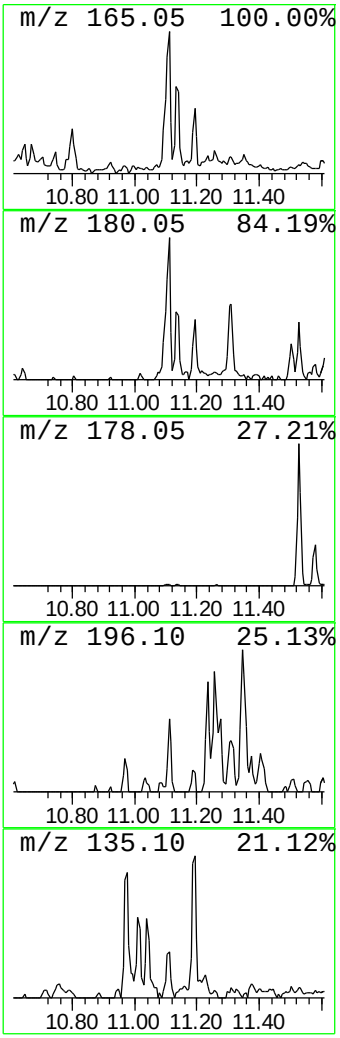
****

Peak Number 8 9H-Fluorene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.11	2.43 ng	102055	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	96
4	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	94
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93





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Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

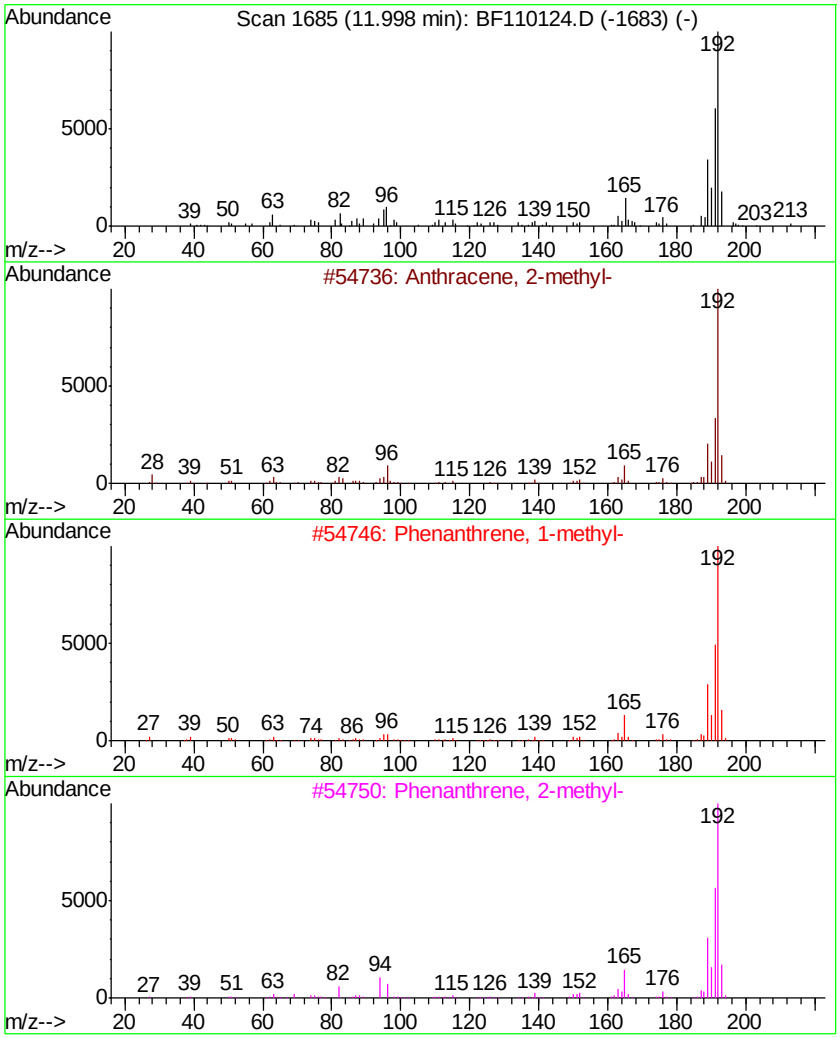
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

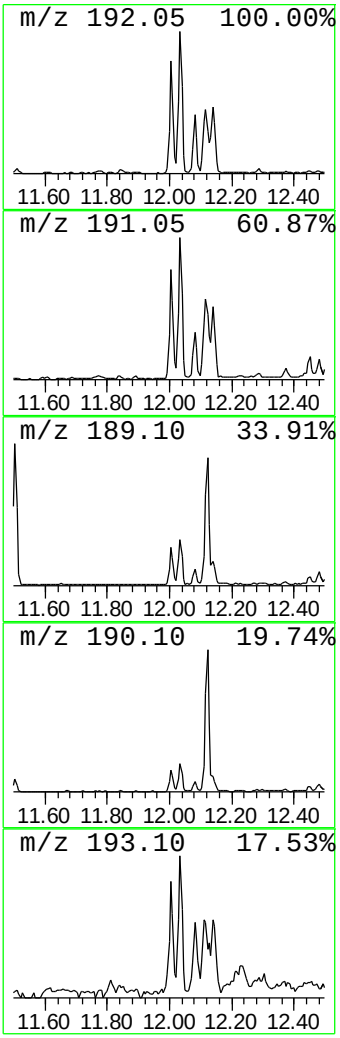
****

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	4.06 ng	170663	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102418\
Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

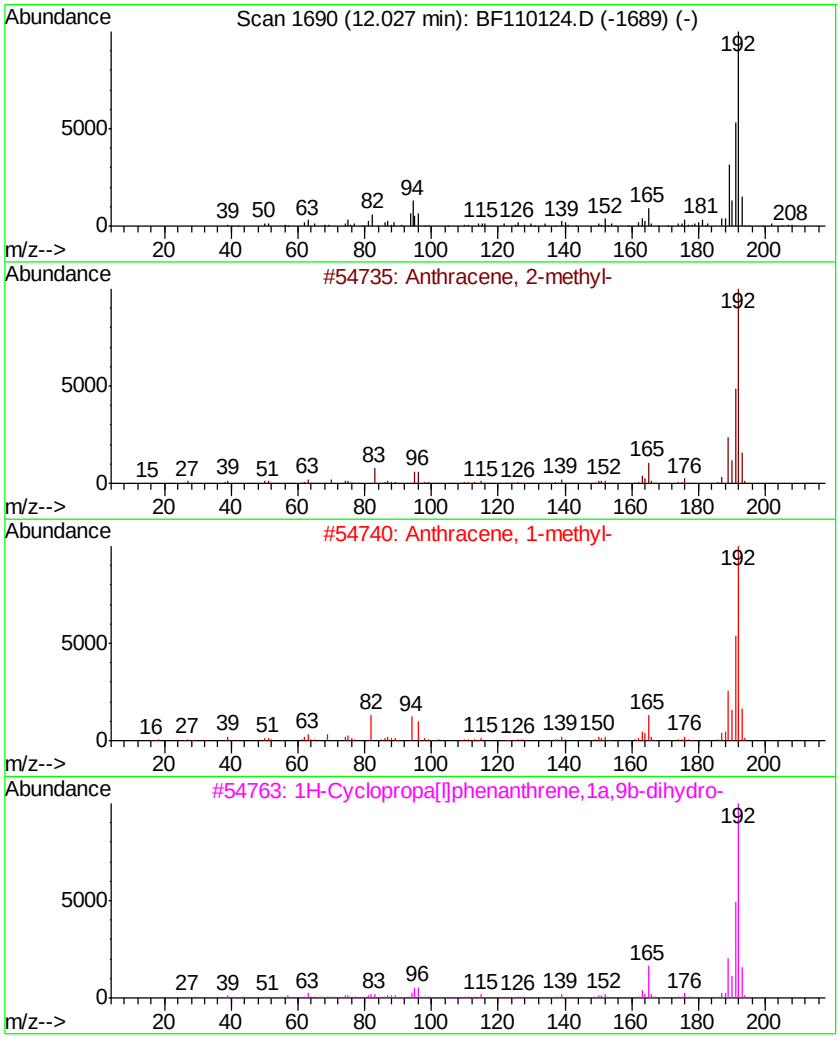
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

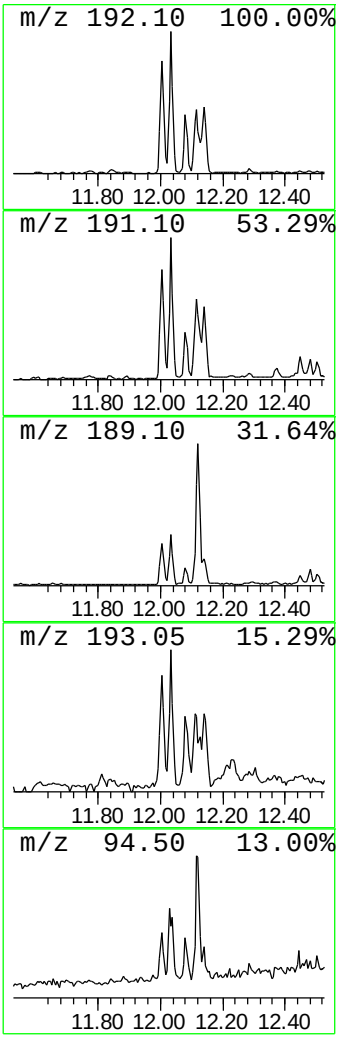
****

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	4.25 ng	178949	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





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Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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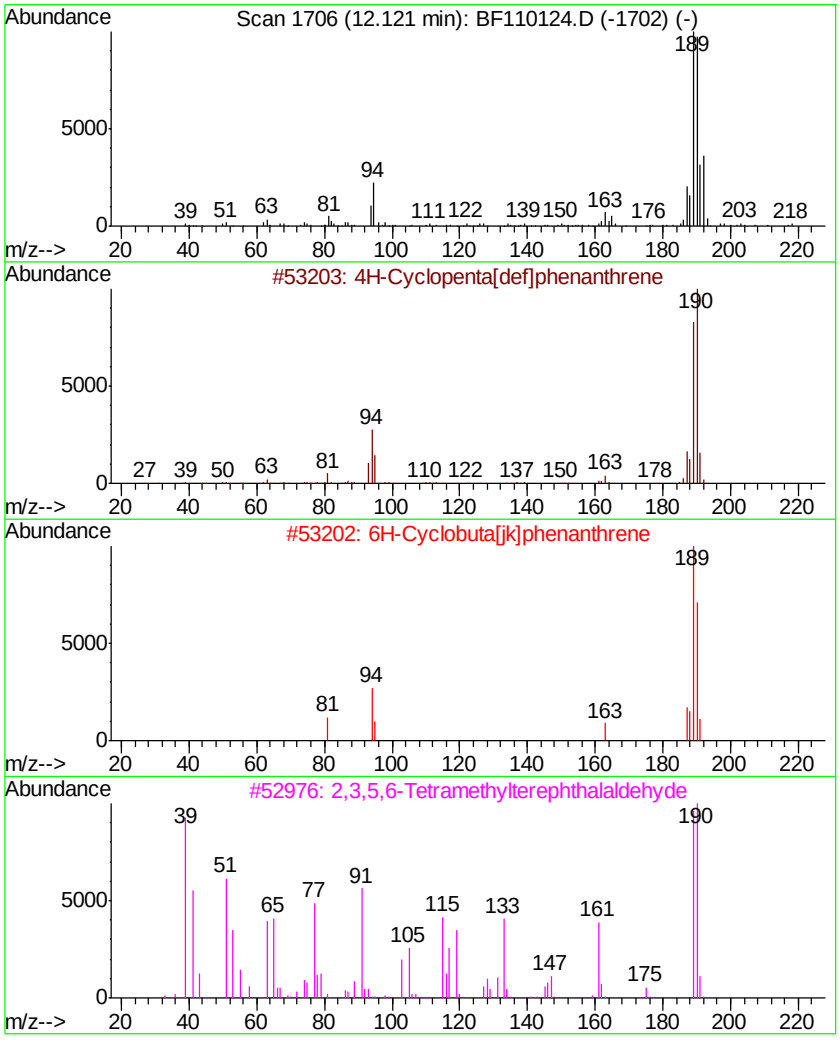
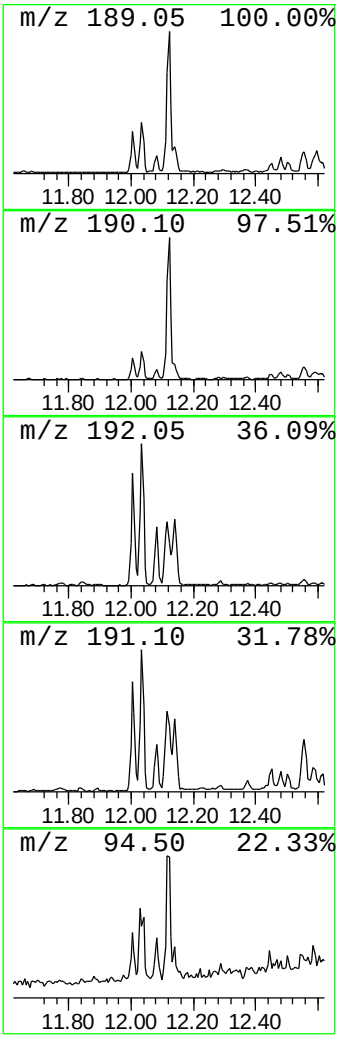
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	6.09 ng	256031	Phenanthrene-d10	11.50

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	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	46
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





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Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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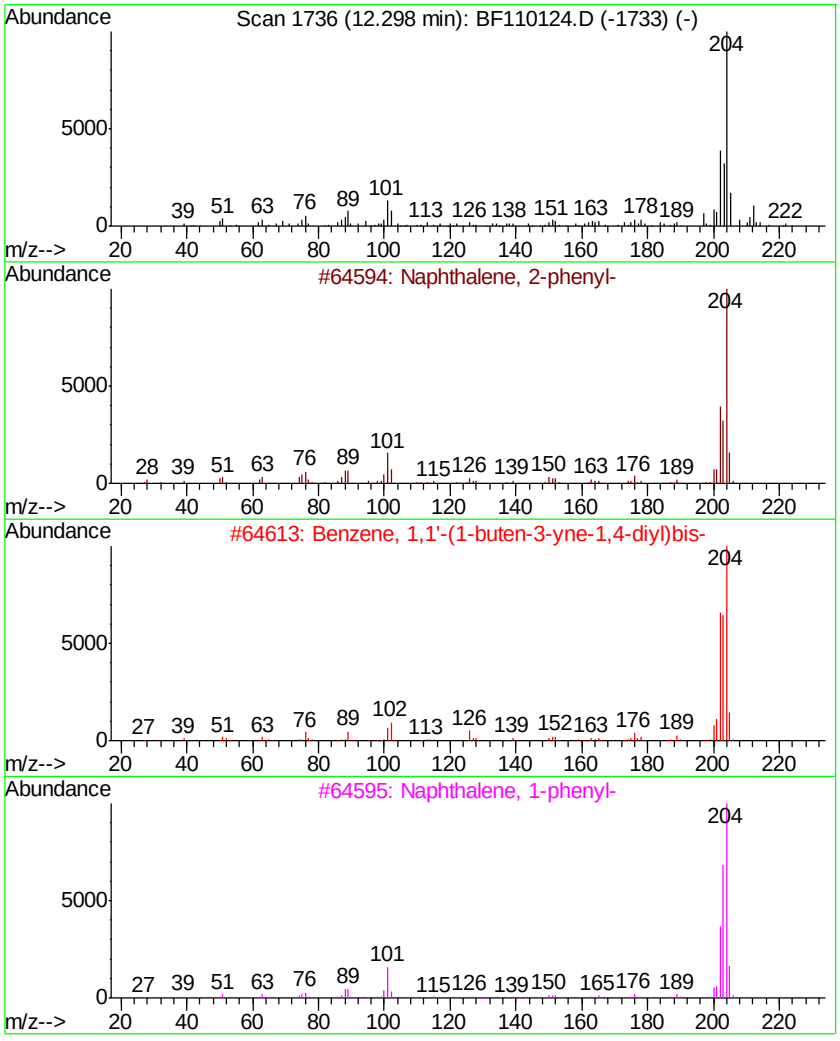
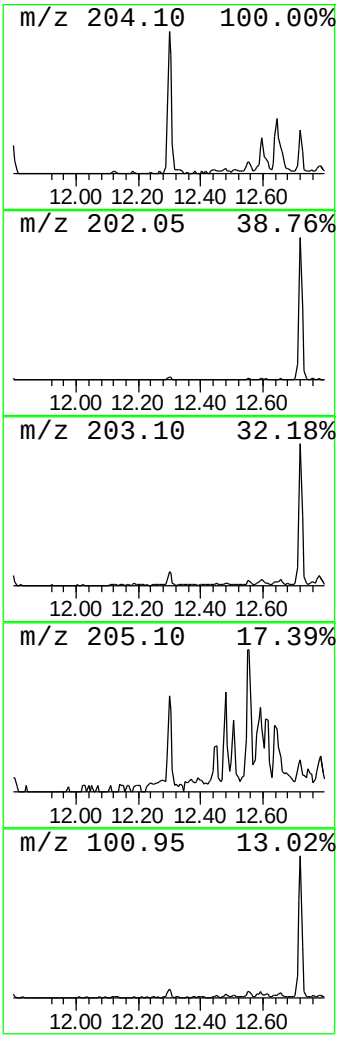
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	2.11 ng	88734	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	91
2	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	55
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	52





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Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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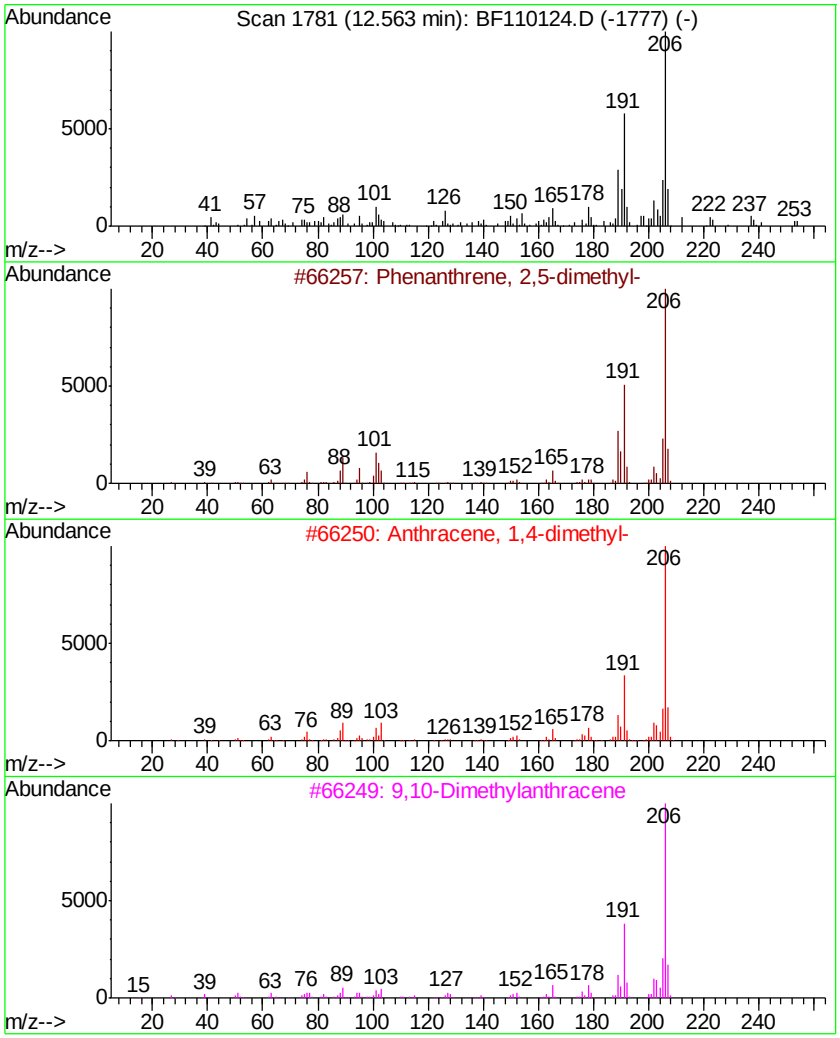
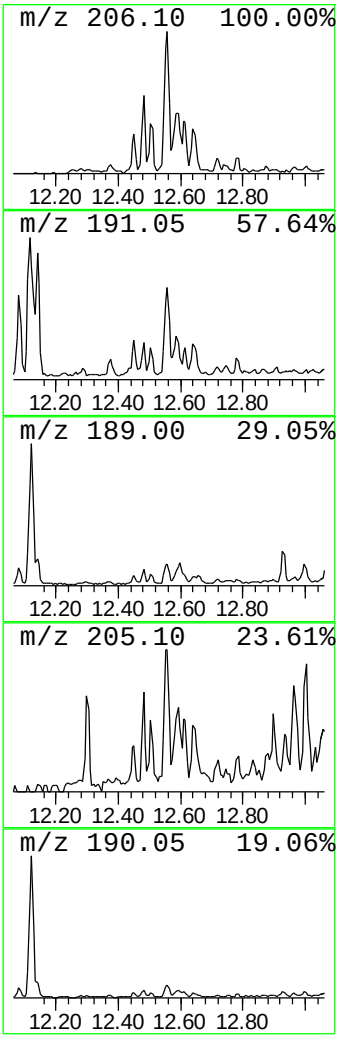
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.56	3.26 ng	137160	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	81
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	81





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Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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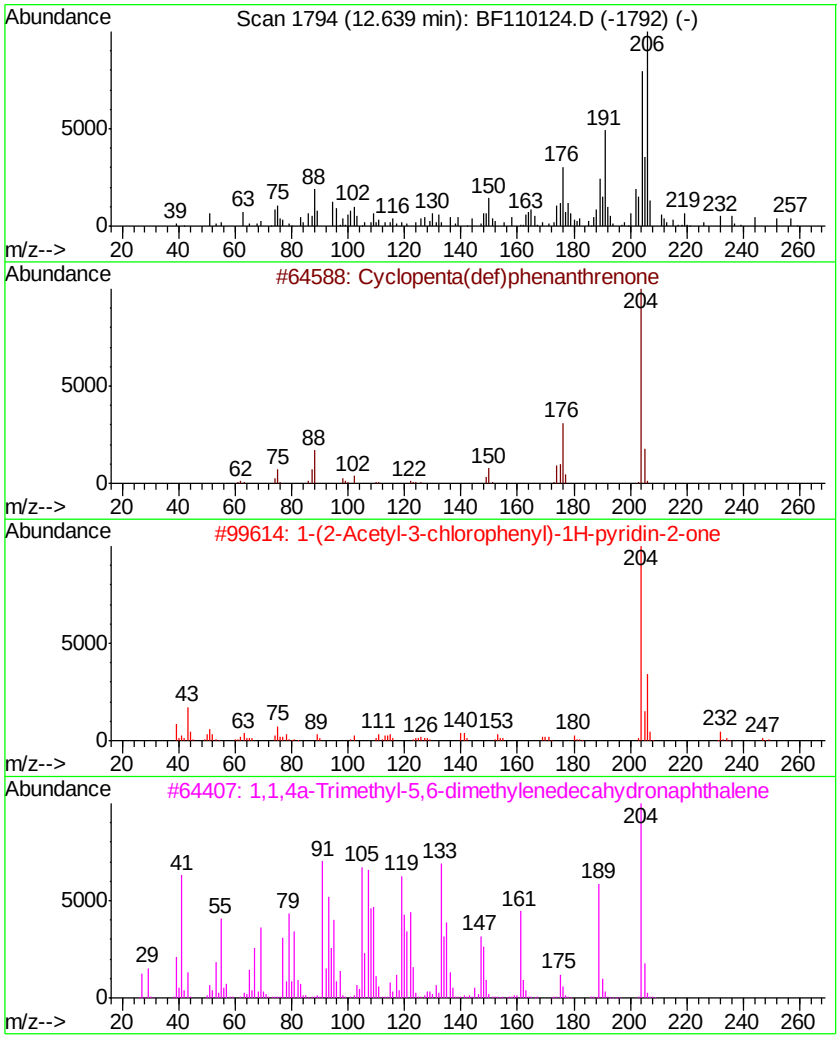
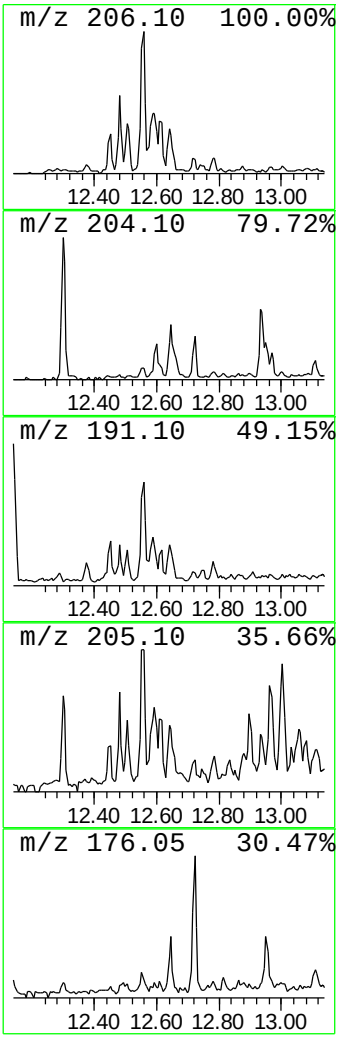
Peak Number 14 unknown12.64 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	2.10 ng	88477	Phenanthrene-d10	11.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	43
2	1-(2-Acetyl-3-chlorophenyl)-1H-p...	247	C13H10ClNO2	1000306-70-9	35
3	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	30
4	[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	30
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	30





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Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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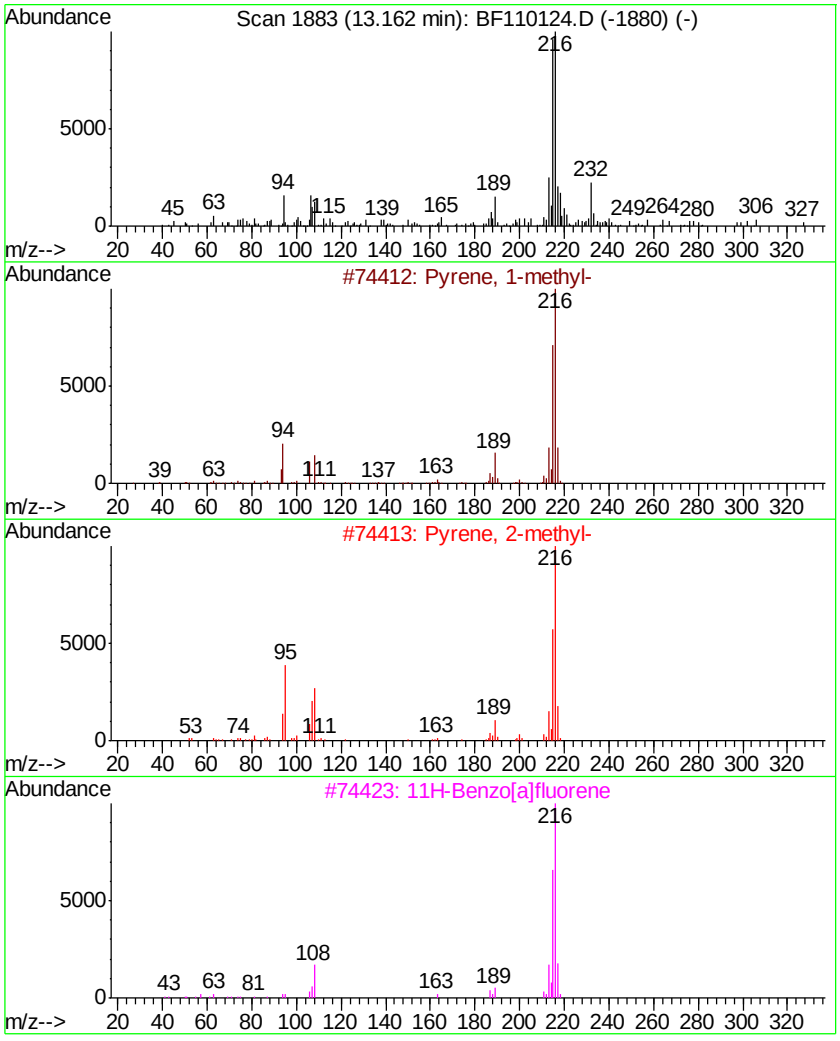
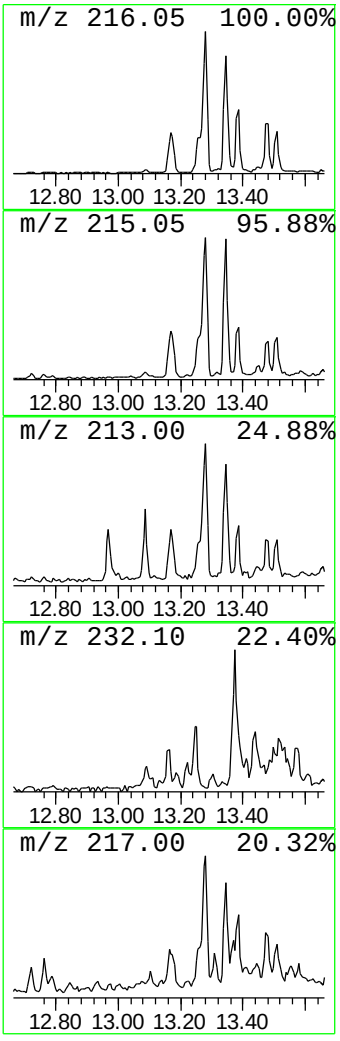
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	2.18 ng	135145	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	83
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	70
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	70
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	68





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Acq On : 24 Oct 2018 19:28
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Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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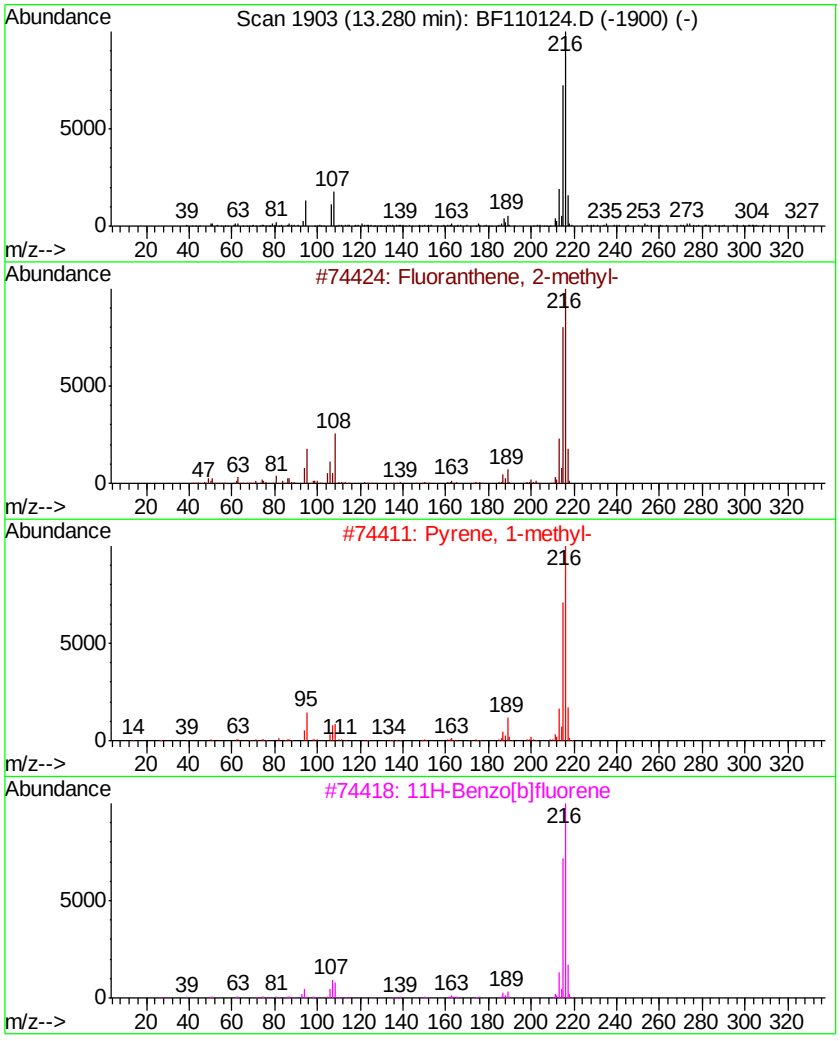
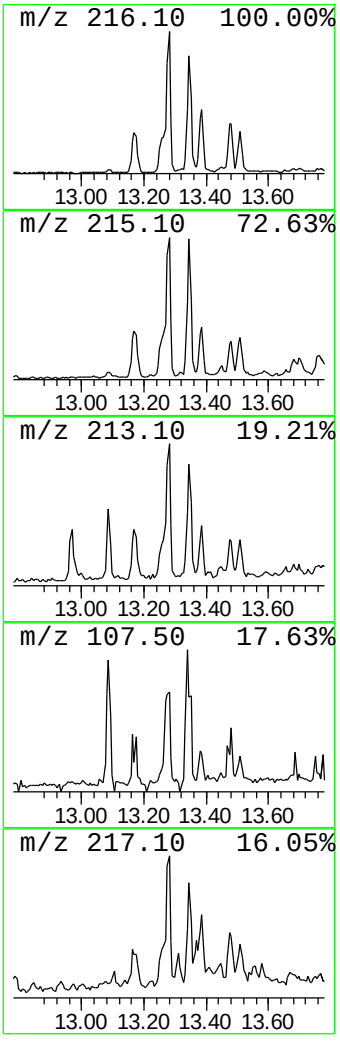
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	2.63 ng	162923	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	87
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83





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Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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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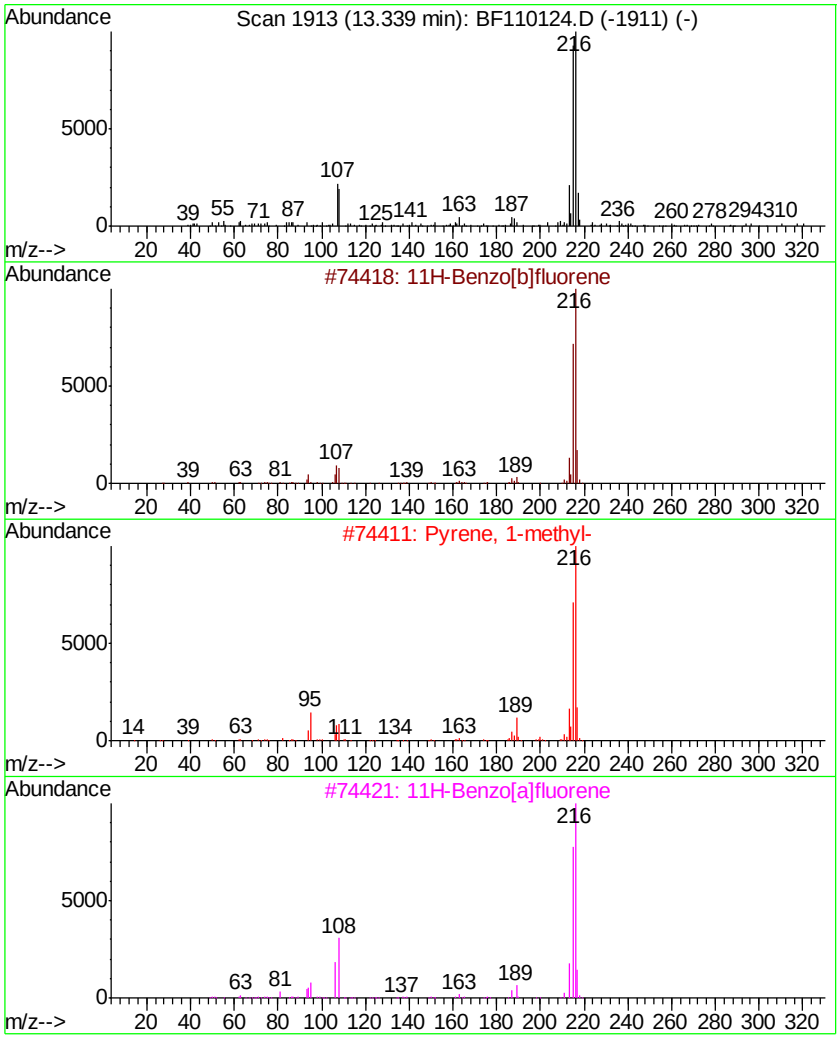
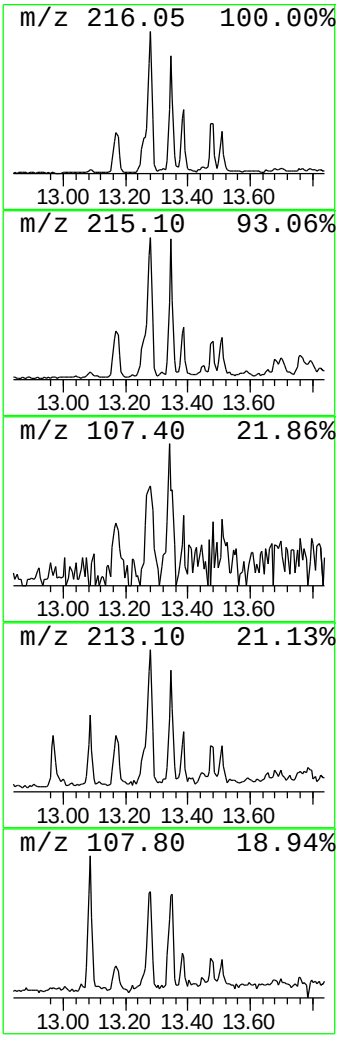
Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	2.16 ng	133557	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	80
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





Tentatively Identified Compound (LSC) summary

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Data File : BF110124.D
Acq On : 24 Oct 2018 19:28
Operator : JU/SJ
Sample : J5198-27 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-01-102318-D

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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
Butane, 2-methoxy...	2.26	7.1	ng	263029	1	6.97	741355	20.0
(1R)-2,6,6-Trimet...	6.25	2.5	ng	91252	1	6.97	741355	20.0
unknown6.73	6.73	35.6	ng	1319960	1	6.97	741355	20.0
Naphthalene, 1,5-...	9.59	2.0	ng	84727	3	10.01	831888	20.0
Naphthalene, 2,3-...	9.66	2.1	ng	88264	3	10.01	831888	20.0
unknown10.92	10.92	2.0	ng	84868	4	11.50	841134	20.0
9H-Fluorene, 1-me...	11.11	2.4	ng	102055	4	11.50	841134	20.0
Phenanthrene, 1-m...	12.00	4.1	ng	170663	4	11.50	841134	20.0
Anthracene, 2-met...	12.03	4.3	ng	178949	4	11.50	841134	20.0
4H-Cyclopenta[def...	12.12	6.1	ng	256031	4	11.50	841134	20.0
Naphthalene, 2-ph...	12.30	2.1	ng	88734	4	11.50	841134	20.0
Phenanthrene, 2,5...	12.56	3.3	ng	137160	4	11.50	841134	20.0
unknown12.64	12.64	2.1	ng	88477	4	11.50	841134	20.0
Pyrene, 1-methyl-	13.16	2.2	ng	135145	5	14.15	1238740	20.0
Fluoranthene, 2-m...	13.28	2.6	ng	162923	5	14.15	1238740	20.0
11H-Benzo[b]fluorene	13.34	2.2	ng	133557	5	14.15	1238740	20.0