LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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-BF061918.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	5.601	552	555	565	rBV	468403	432851	15.52%	1.223%
2	6.607	722	726	736	rBV	489826	453648	16.27%	1.282%
3	6.736	744	748	751	rBV	603269	479085	17.18%	1.353%
4	6.960	782	786	789	rBV	730527	589483	21.14%	1.665%
5	7.113	808	812	816	rBV	470386	374121	13.42%	1.057%
6	7.519	877	881	891	rBB	361996	287065	10.29%	0.811%
7	8.242	1000	1004	1007	rBV	971520	797260	28.59%	2.252%
8	8.266	1007	1008	1011	rVB	93675	43409	1.56%	0.123%
9	8.954	1122	1125	1133	rBV	97652	81332	2.92%	0.230%
10	9.054	1138	1142	1148	rVV	98751	78345	2.81%	0.221%
11	9.313	1183	1186	1190	rBV	743714	582875	20.90%	1.647%
12	9.583	1227	1232	1236	rBV	61548	79523	2.85%	0.225%
13	9.654	1240	1244	1247	rBV	110936	105603	3.79%	0.298%
14	9.683	1247	1249	1251	rVV	64976	46657	1.67%	0.132%
15	9.707	1251	1253	1260	rVB2	63491	64587	2.32%	0.182%
16	9.771	1260	1264	1266	rBV	56117	50019	1.79%	0.141%
17	9.860	1276	1279	1285	rBV2	92014	87553	3.14%	0.247%
18	10.001	1300	1303	1306	rVV2	979538	823031	29.52%	2.325%
19	10.030	1306	1308	1312	rVB	226563	197452	7.08%	0.558%
20	10.201	1333	1337	1341	rBV2	165283	169668	6.08%	0.479%
21	10.236	1341	1343	1347	rVB	58551	52394	1.88%	0.148%
22	10.313	1352	1356	1359	rBV2	51859	54435	1.95%	0.154%
23	10.407	1368	1372	1377	rVB3	58873	87460	3.14%	0.247%
24	10.548	1393	1396	1401	rVB	394206	333137	11.95%	0.941%
25	10.636	1409	1411	1413	rVB	53925	42123	1.51%	0.119%
26	10.707	1420	1423	1426	rVB	95868	87998	3.16%	0.249%
27	10.789	1433	1437	1441	rBV	417237	418638	15.01%	1.183%
28	10.895	1450	1455	1463	rVB4	59803	114359	4.10%	0.323%
29	11.095	1483	1489	1492	rBV2	106369	137499	4.93%	0.388%
30	11.124	1492	1494	1497	rVV2	61359	57220	2.05%	0.162%
31	11.177	1500	1503	1506	rVB2	51245	54701	1.96%	0.155%
32	11.224	1506	1511	1513	rBV3	65660	90472	3.24%	0.256%
33	11.248	1513	1515	1519	rVV3	65452	71727	2.57%	0.203%
34	11.295	1520	1523	1527	rVV	80656	80281	2.88%	0.227%

LSC Area Percent Report

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Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.336	1527	1530	1533	rVV	94774	95311	3.42%	0.269%
36	11.389	1537	1539	1543	rVB	147435	115949	4.16%	0.328%
37	11.495	1553	1557	1559	rBV	958930	862539	30.93%	2.437%
38	11.518	1559	1561	1565	rVV	1829254	1664796	59.70%	4.703%
39	11.571	1565	1570	1573	rVV	656420	572077	20.52%	1.616%
40	11.601	1573	1575	1578	rVV	50977	47692	1.71%	0.135%
41	11.724	1591	1596	1601	rVV2	113499	159790	5.73%	0.451%
42	11.783	1604	1606	1610	rVV2	78321	69684	2.50%	0.197%
43	11.824	1610	1613	1617	rVB2	78836	76188	2.73%	0.215%
44	11.907	1624	1627	1632	rVB	36112	42831	1.54%	0.121%
45	11.995	1636	1642	1644	rBV	358321	309592	11.10%	0.875%
46	12.024	1644	1647	1650	rVB	455511	378998	13.59%	1.071%
47	12.071	1650	1655	1658	rBV	216982	188527	6.76%	0.533%
48	12.113	1658	1662	1664	rBV2	540834	639418	22.93%	1.806%
49	12.130	1664	1665	1669	rVB	241861	136572	4.90%	0.386%
50	12.171	1669	1672	1675	rBV3	52948	46264	1.66%	0.131%
51	12.289	1689	1692	1694	rVV	243528	203844	7.31%	0.576%
52	12.318	1694	1697	1703	rVB	102265	93236	3.34%	0.263%
53	12.436	1712	1717	1720	rBV2	81691	101075	3.62%	0.286%
54	12.471	1720	1723	1725	rVV	79257	61618	2.21%	0.174%
55	12.495	1725	1727	1729	rVB	76389	55067	1.97%	0.156%
56	12.542	1732	1735	1739	rBV	190843	292331	10.48%	0.826%
57	12.577	1739	1741	1744	rVV2	127840	171885	6.16%	0.486%
58	12.636	1747	1751	1760	rVB3	171394	230697	8.27%	0.652%
59	12.718	1760	1765	1768	rBV	2539448	2494059	89.44%	7.046%
60	12.754	1768	1771	1772	rBV	48044	41943	1.50%	0.118%
61	12.771	1772	1774	1777	rVB	89472	69816	2.50%	0.197%
62	12.865	1787	1790	1792	rVB	86663	73472	2.63%	0.208%
63	12.948	1797	1804	1808	rBV2	2230380	2788406	100.00%	7.877%
64	12.989	1808	1811	1815	rVB2	169821	175404	6.29%	0.496%
65	13.077	1819	1826	1828	rBV2	575745	673725	24.16%	1.903%
66	13.101	1828	1830	1833	rVB	121307	108163	3.88%	0.306%
67	13.154	1834	1839	1844	rBV3	224861	387758	13.91%	1.095%
68	13.242	1851	1854	1855	rVV3	159368	163060	5.85%	0.461%
69	13.265	1855	1858	1861	rVB	449127	467961	16.78%	1.322%
70	13.336	1867	1870	1872	rBV	374052	299686	10.75%	0.847%
71	13.371	1872	1876	1879	rVV2	313141	339486	12.17%	0.959%

LSC Area Percent Report

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Sample : J3249-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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

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Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.401	1879	1881	1883	rVB2	59227	46111	1.65%	0.130%
73	13.424	1883	1885	1889	rBV2	56108	52213	1.87%	0.147%
74	13.465	1889	1892	1895	rBV	169207	150377	5.39%	0.425%
75	13.495	1895	1897	1901	rBV2	158206	155403	5.57%	0.439%
76	13.748	1938	1940	1942	rBV	69730	70386	2.52%	0.199%
77	13.777	1942	1945	1949	rVB	237242	235401	8.44%	0.665%
78	13.889	1960	1964	1967	rBV2	250163	302295	10.84%	0.854%
79	13.918	1967	1969	1971	rVV	270763	235102	8.43%	0.664%
80	13.942	1971	1973	1978	rVV2	247280	372424	13.36%	1.052%
81	13.989	1978	1981	1984	rVB	218229	218513	7.84%	0.617%
82	14.142	2000	2007	2010	rBV2	1577177	2449483	87.85%	6.920%
83	14.171	2010	2012	2018	rVB	1197430	1210525	43.41%	3.420%
84	14.254	2023	2026	2029	rVV	364033	341995	12.26%	0.966%
85	14.289	2030	2032	2039	rVV5	136607	238152	8.54%	0.673%
86	14.377	2042	2047	2049	rVV2	132264	185176	6.64%	0.523%
87	14.401	2049	2051	2054	rVB3	56942	57916	2.08%	0.164%
88	14.495	2065	2067	2069	rBV	75021	70601	2.53%	0.199%
89	14.536	2069	2074	2077	rVV	349327	379087	13.60%	1.071%
90	14.571	2077	2080	2083	rVB	127317	115686	4.15%	0.327%
91	14.665	2094	2096	2098	rBV	122265	98308	3.53%	0.278%
92	14.689	2098	2100	2104	rVB2	183134	140119	5.03%	0.396%
93	15.230	2187	2192	2195	rBV	970551	1627978	58.38%	4.599%
94	15.342	2207	2211	2218	rVB	244147	294671	10.57%	0.832%
95	15.553	2242	2247	2253	rVB	545484	772595	27.71%	2.183%
96	15.618	2253	2258	2264	rBV	893186	1188860	42.64%	3.358%
97	15.683	2264	2269	2272	rVV	433099	622108	22.31%	1.757%
98	15.712	2272	2274	2280	rVB2	267726	355956	12.77%	1.006%
99	17.247	2529	2535	2541	rBV2	333213	630596	22.61%	1.781%
100	17.730	2611	2617	2630	rVB	246055	575772	20.65%	1.627%

Sum of corrected areas: 35398740

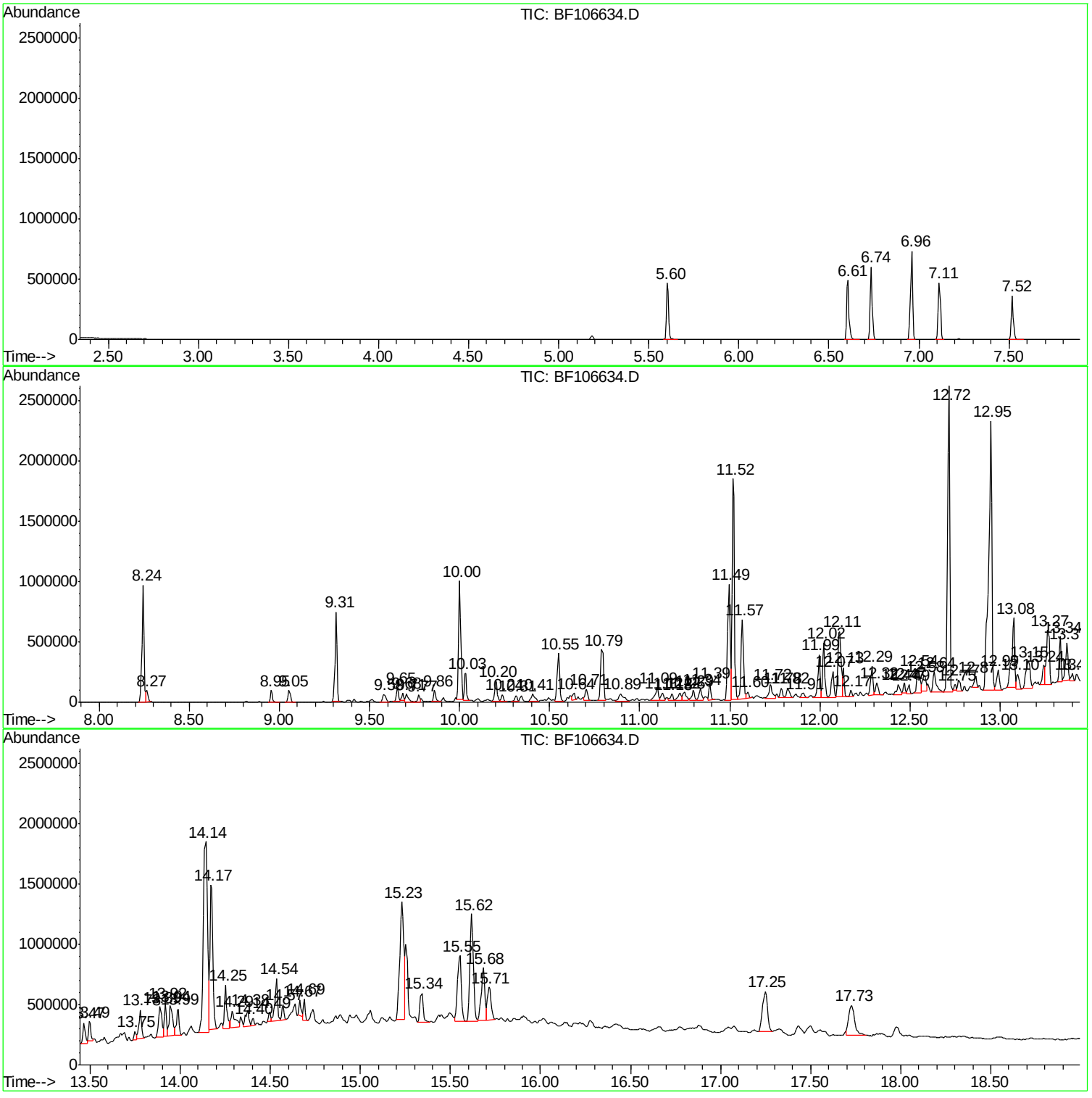
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

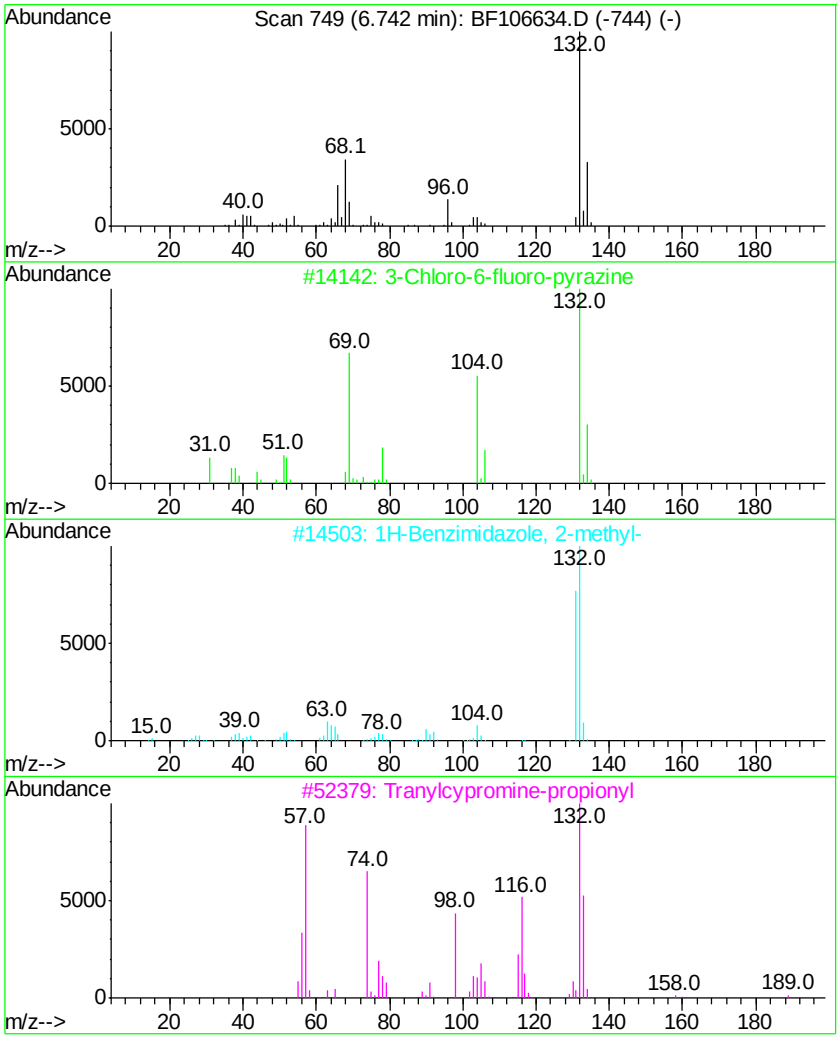
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

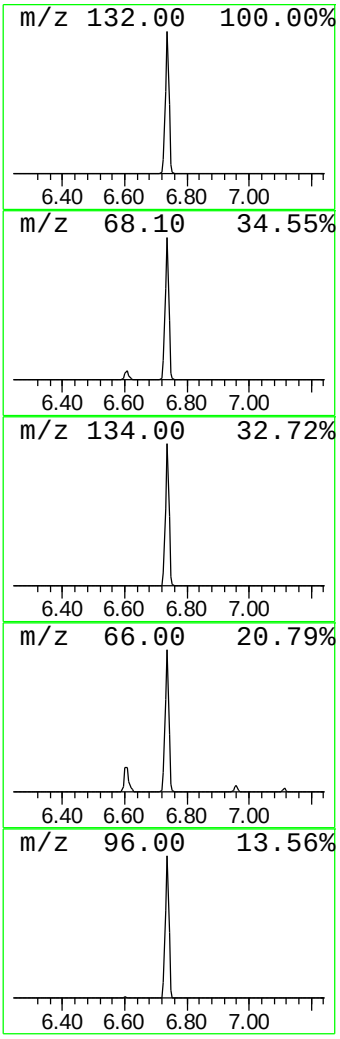
****

Peak Number 1 unknown6.74 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	16.25 ng	479085	1,4-Dichlorobenzene-d4	6.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
3	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
5	1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
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Operator : JU/SJ
Sample : J3249-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

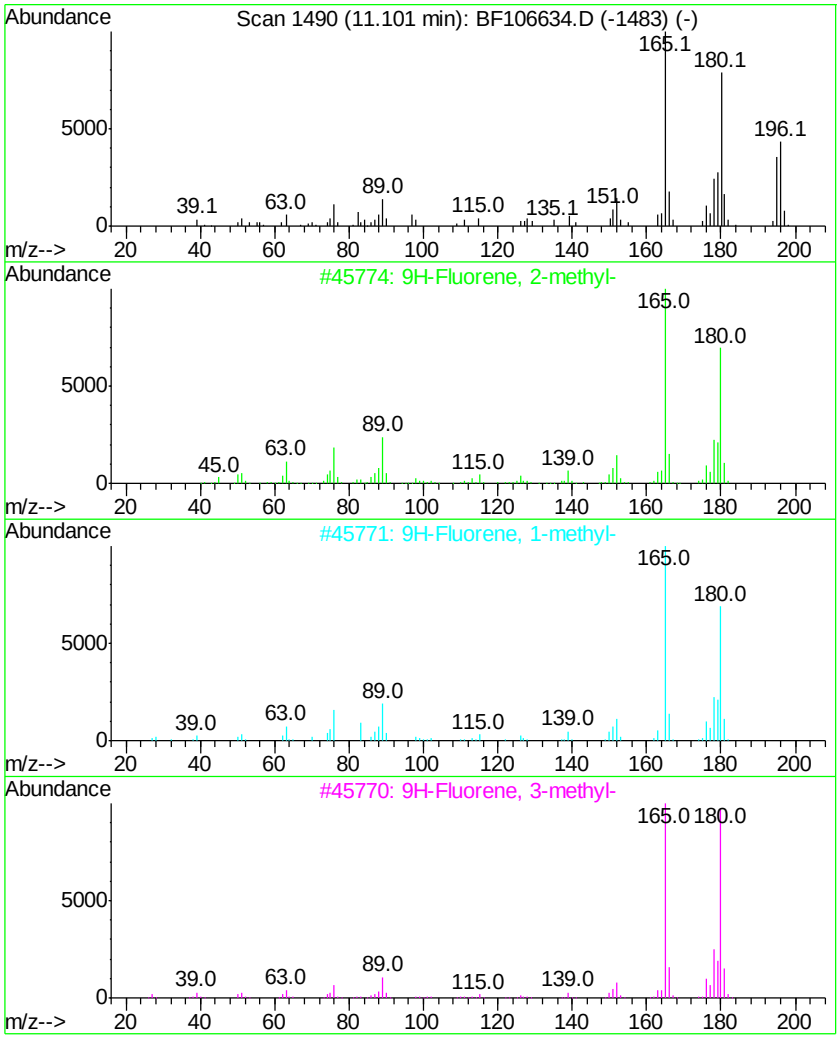
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

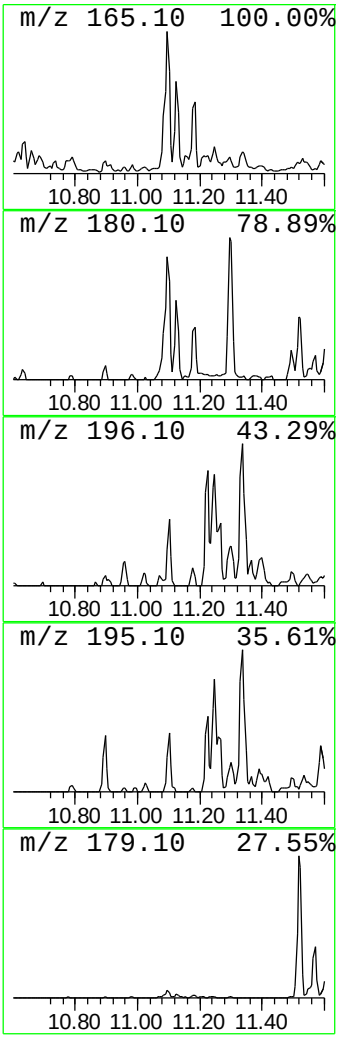
****

Peak Number 3 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	3.19 ng	137499	Phenanthrene-d10	11.49

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	93
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	86
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	83





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
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Misc :
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Instrument : BNA_F
ClientSampleId : PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

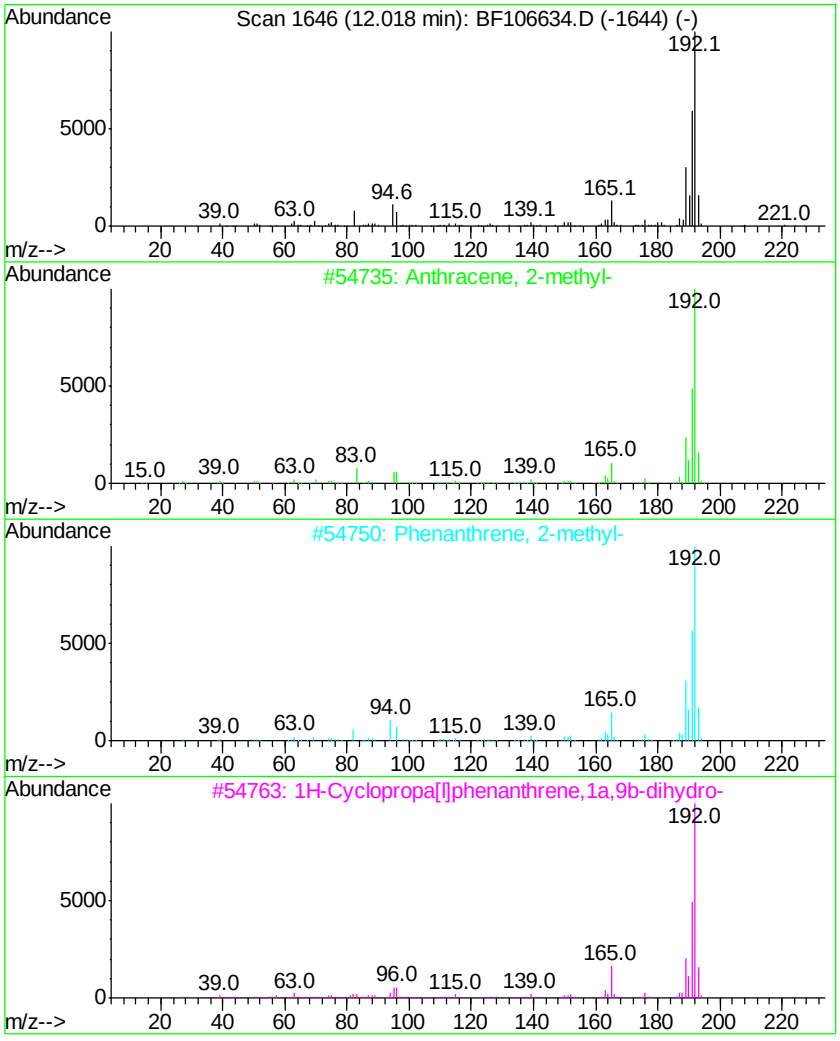
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

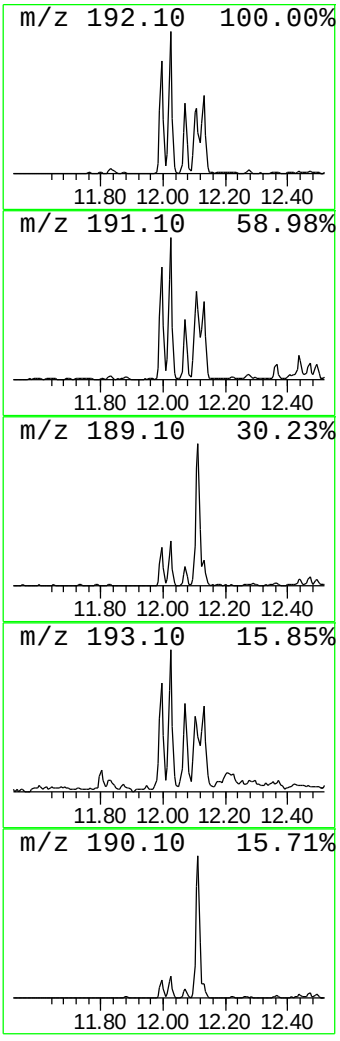
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	8.79 ng	378998	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

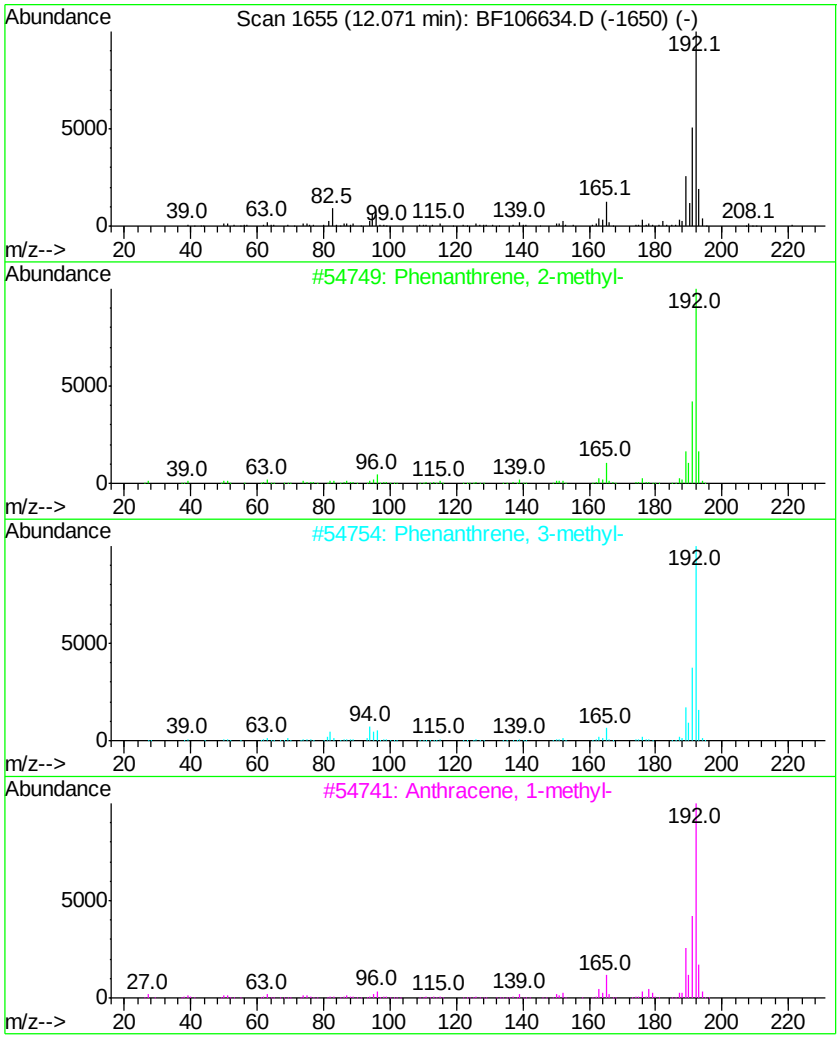
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

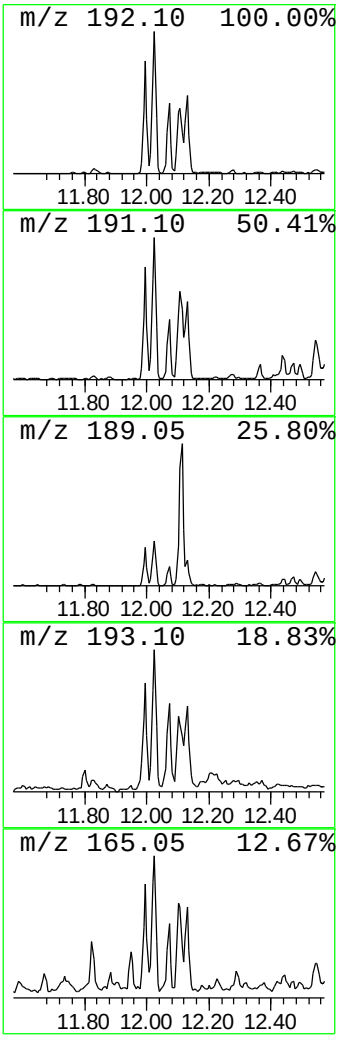
****

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.07	4.37 ng	188527	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	94





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

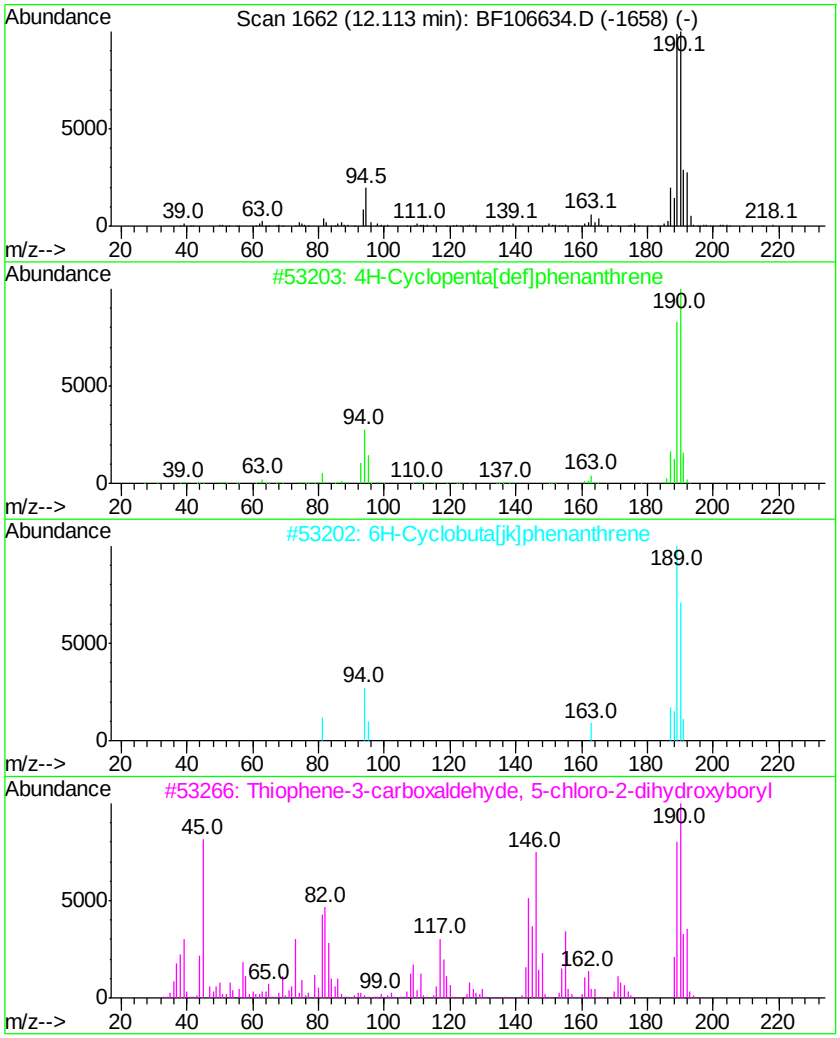
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

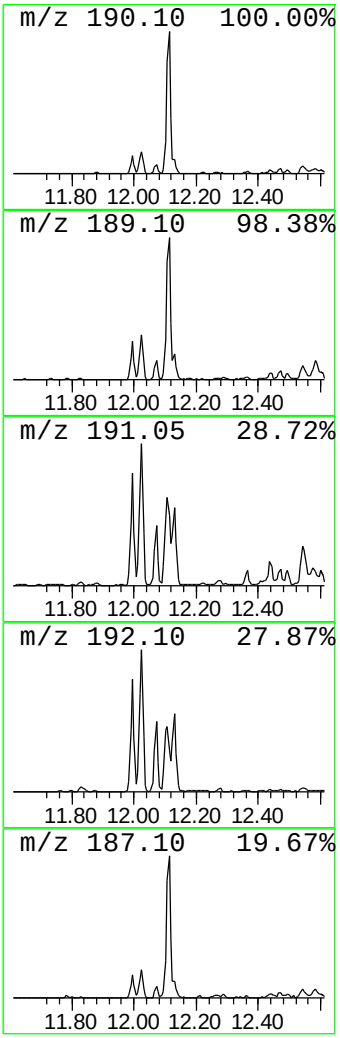
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	14.83 ng	639418	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
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	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45





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Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

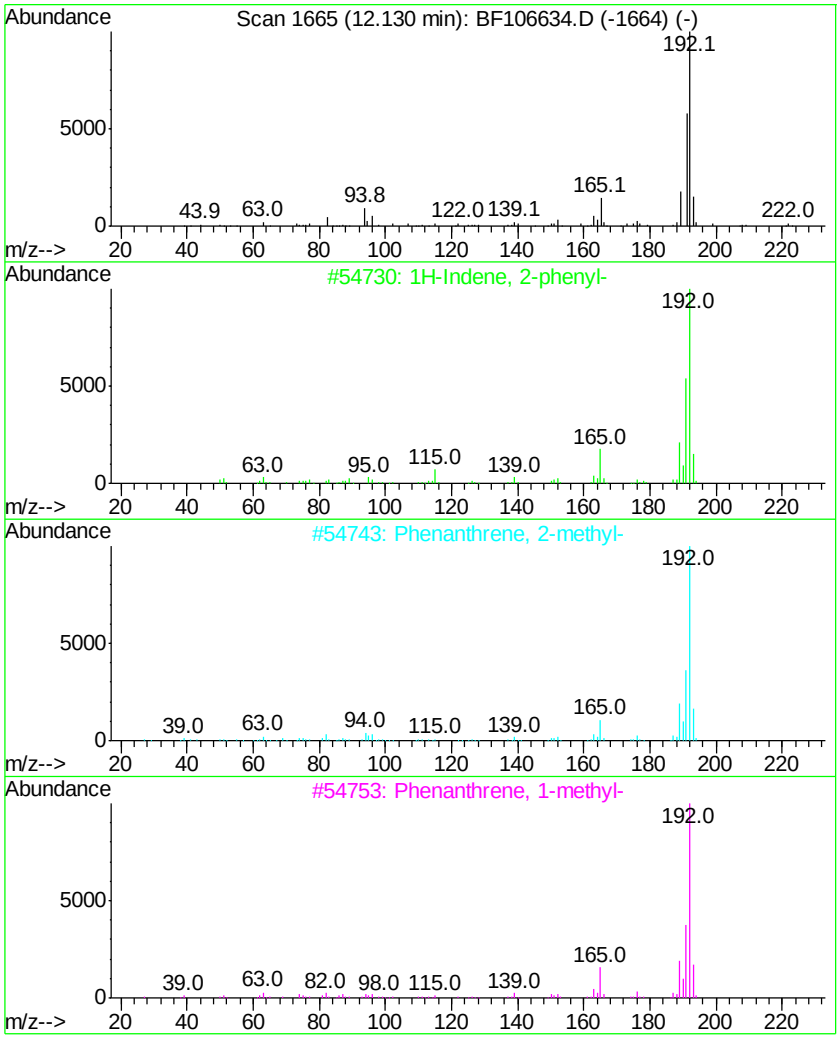
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

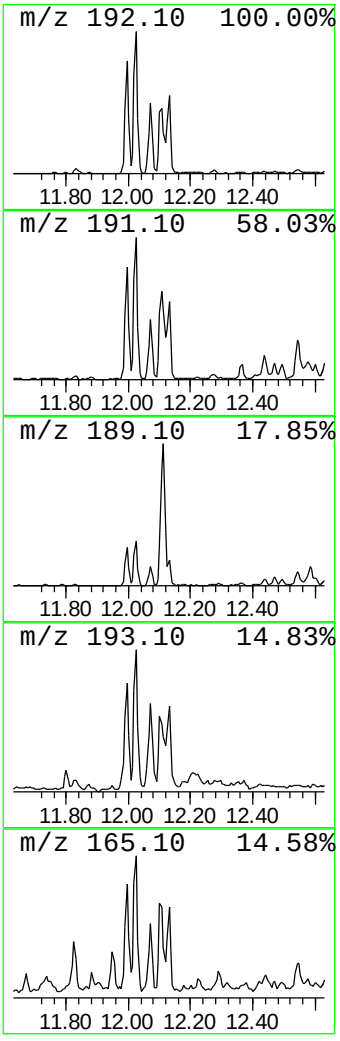
****

Peak Number 8 1H-Indene, 2-phenyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	3.17 ng	136572	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91





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ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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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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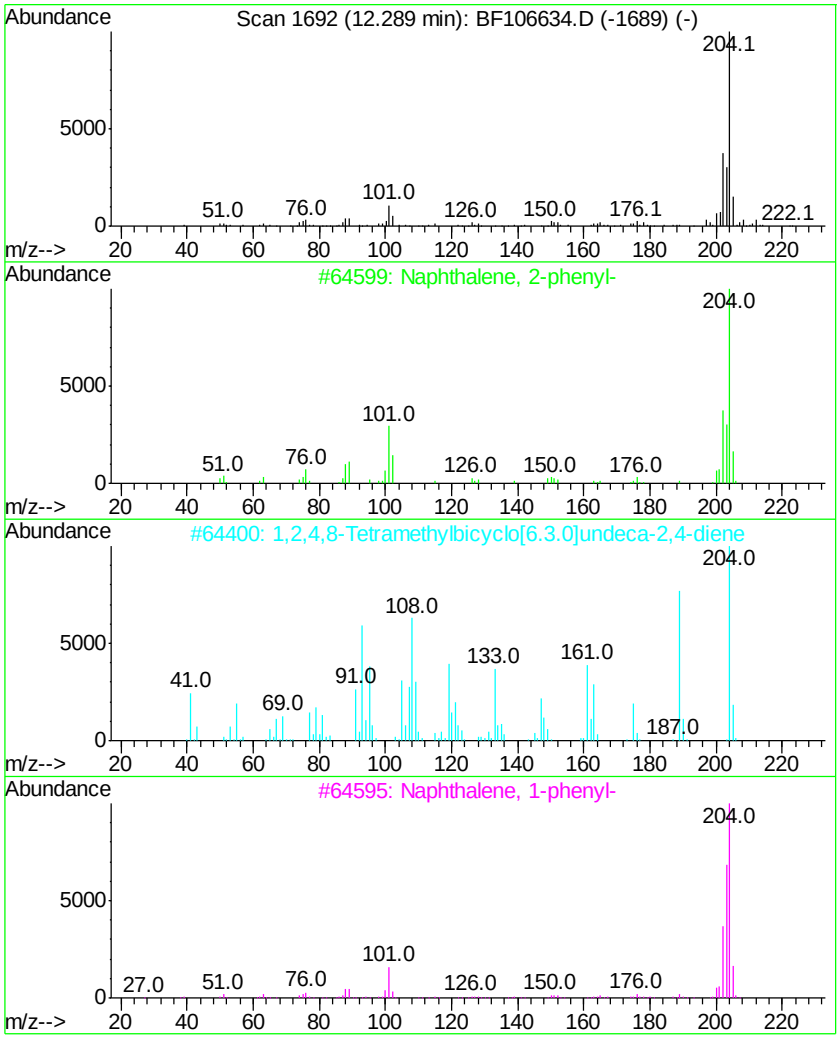
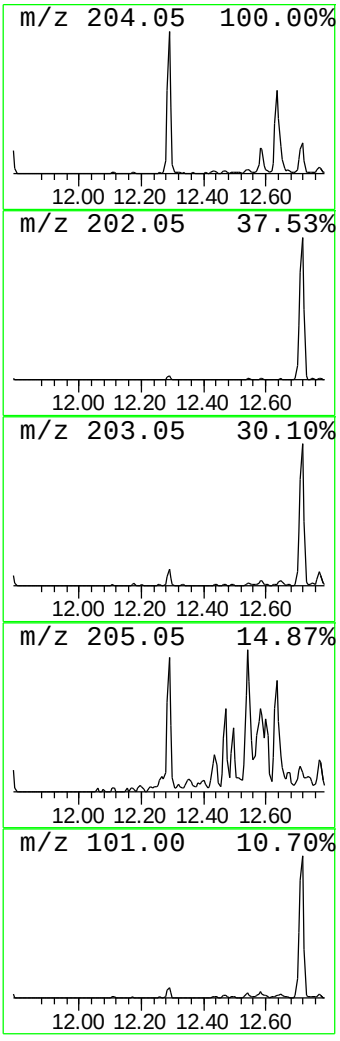
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	4.73 ng	203844	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	86
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	52





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Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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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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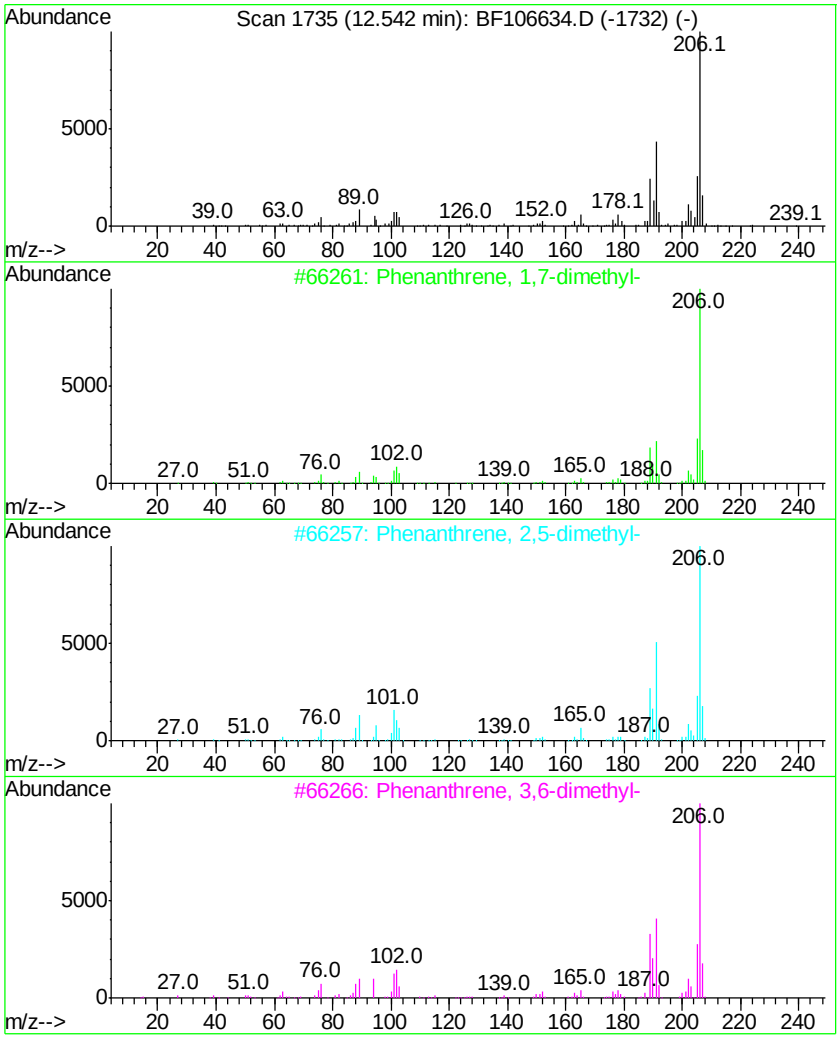
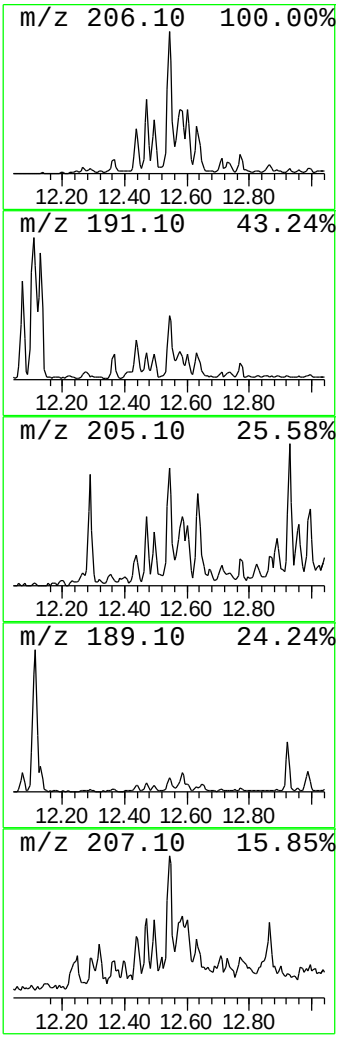
Peak Number 10 Phenanthrene, 1,7-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.54	6.78 ng	292331	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	94
5	di-p-Tolylacetylene	206	C16H14	002789-88-0	93





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ClientSampleId : PL-01-061818-B

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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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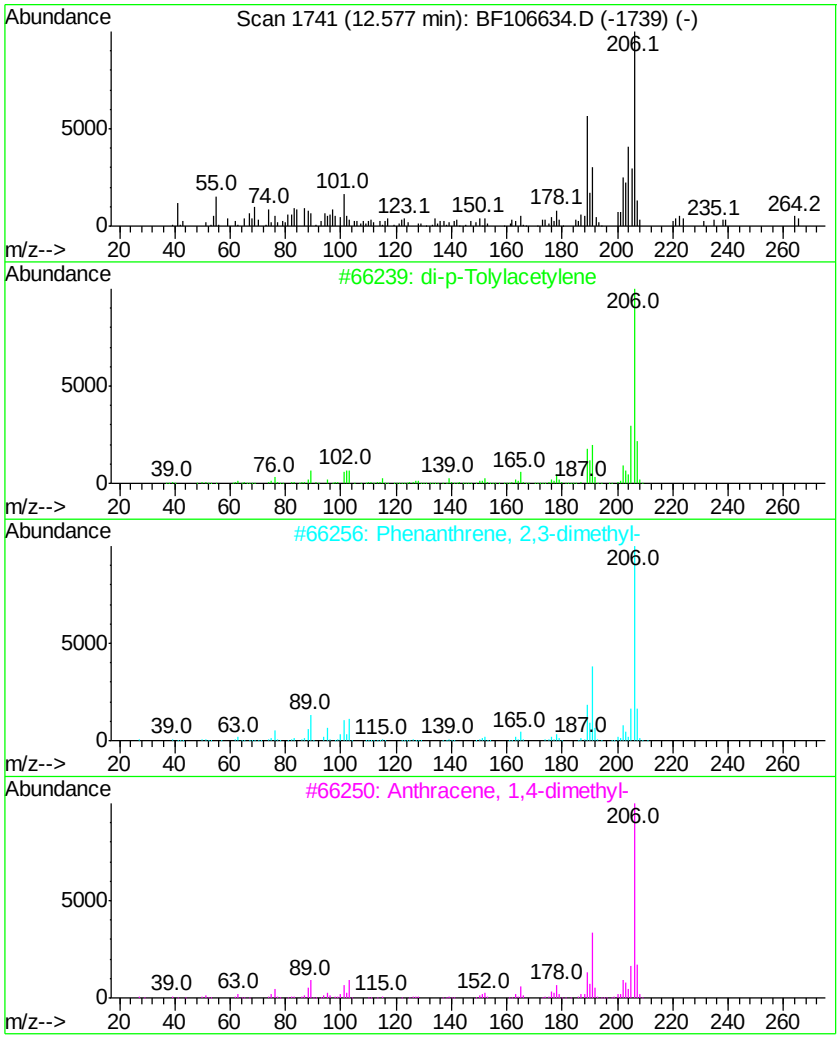
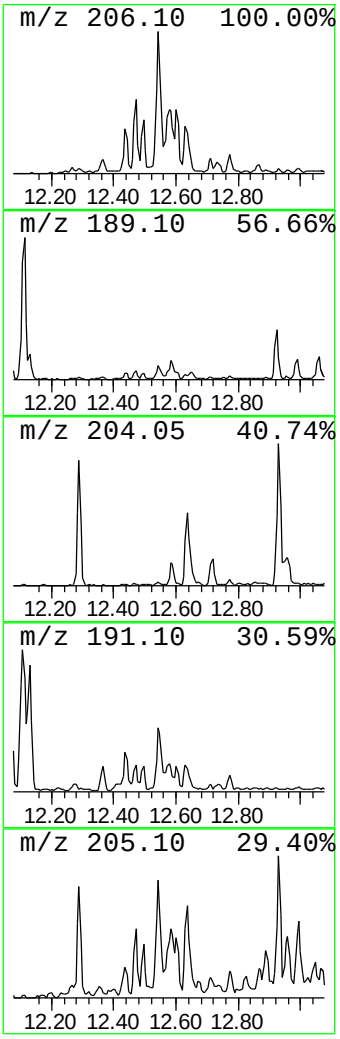
Peak Number 11 unknown12.58 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.58	3.99 ng	171885	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	46
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	45
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	45
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	43
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	43





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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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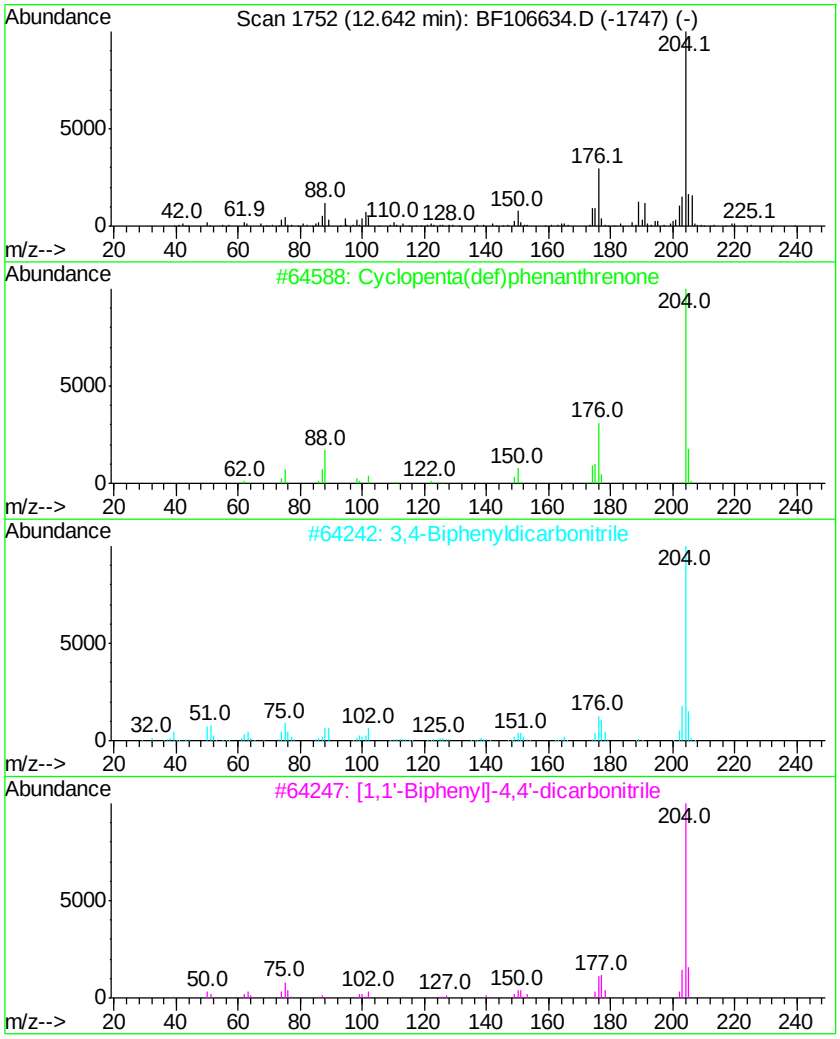
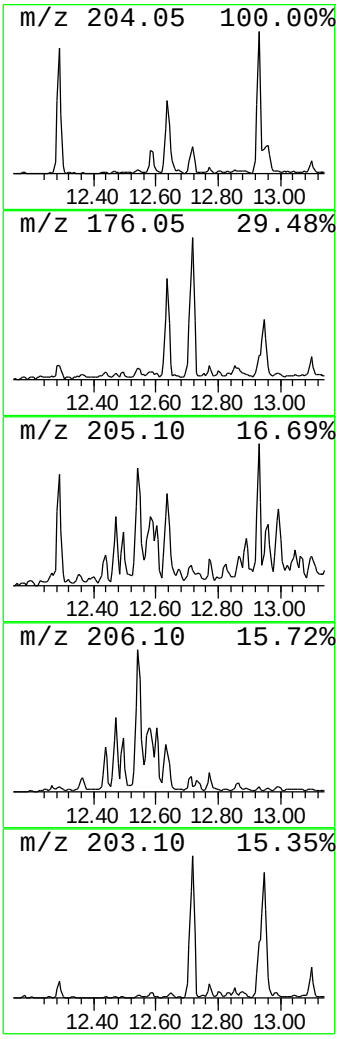
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	5.35 ng	230697	Phenanthrene-d10	11.49

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46
5	1,2,4-Triazolo[2,3-c]thieno[3,2-...	204	C9H8N4S	113246-88-1	42





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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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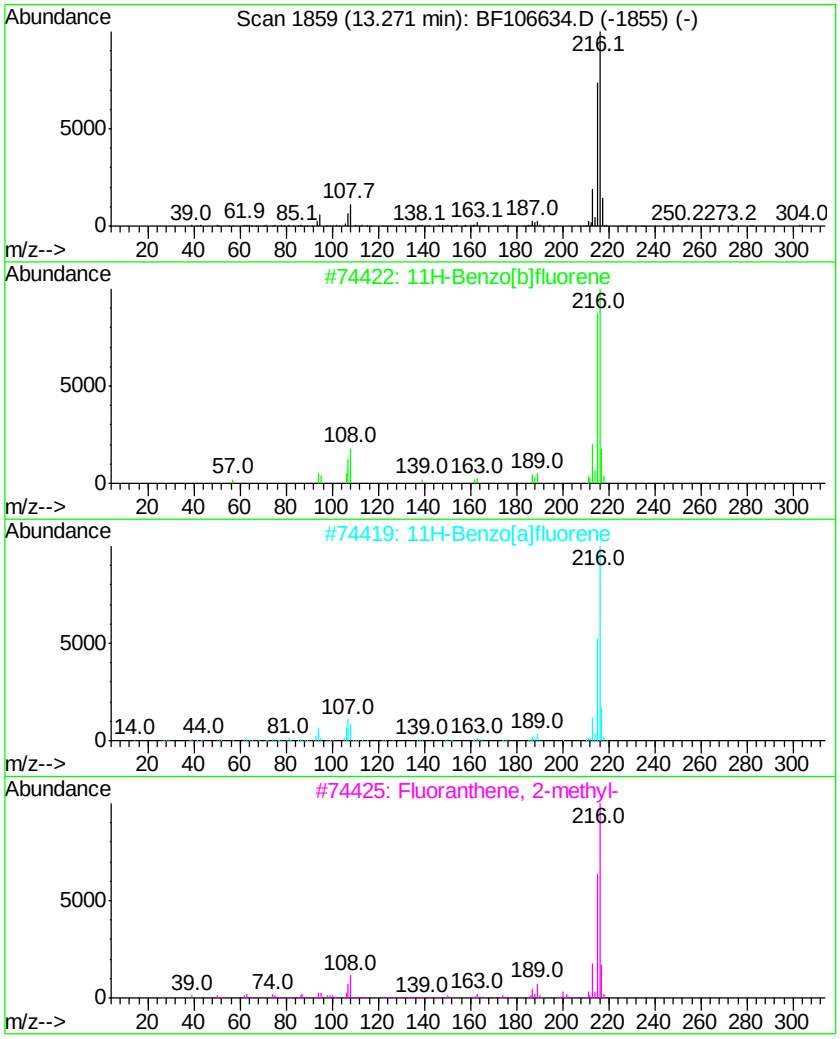
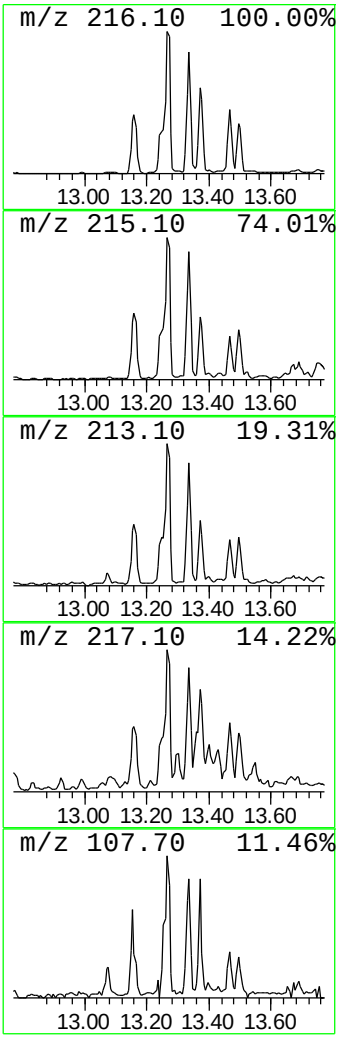
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.27	3.82 ng	467961	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	78
5	6H-Thiazolo[5,4-e]indole, 2,7,8-...	216	C12H12N2S	1000338-32-0	64





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Misc :
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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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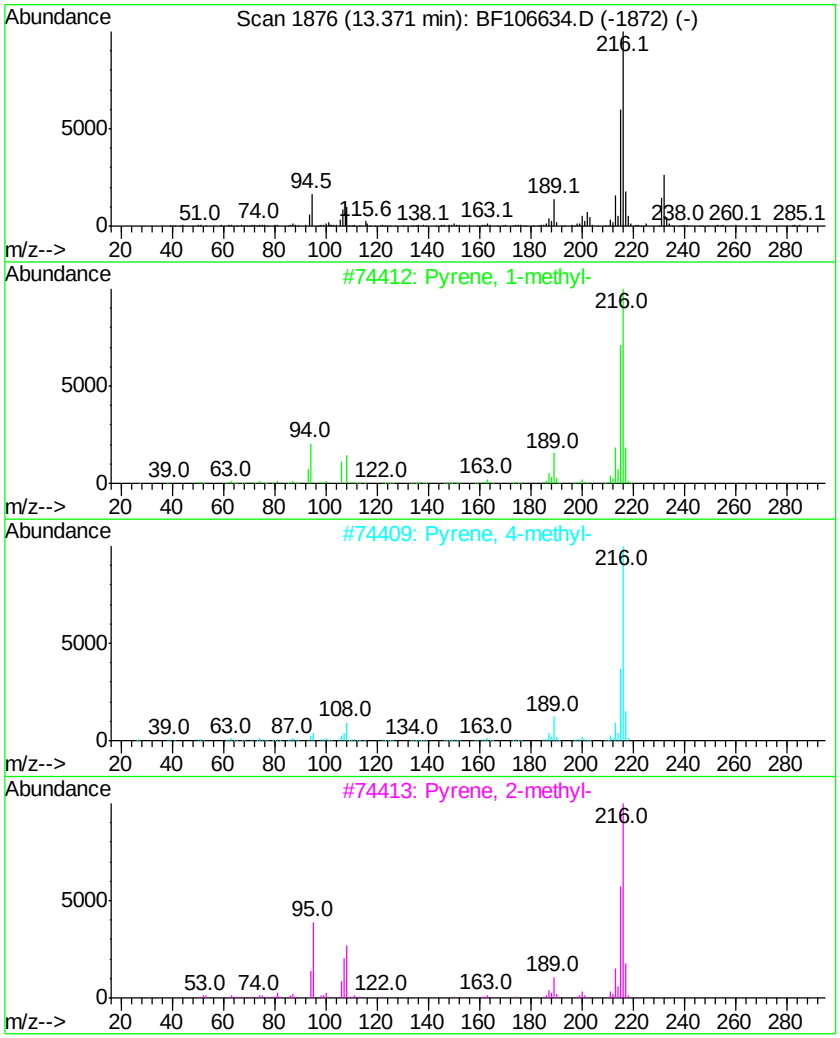
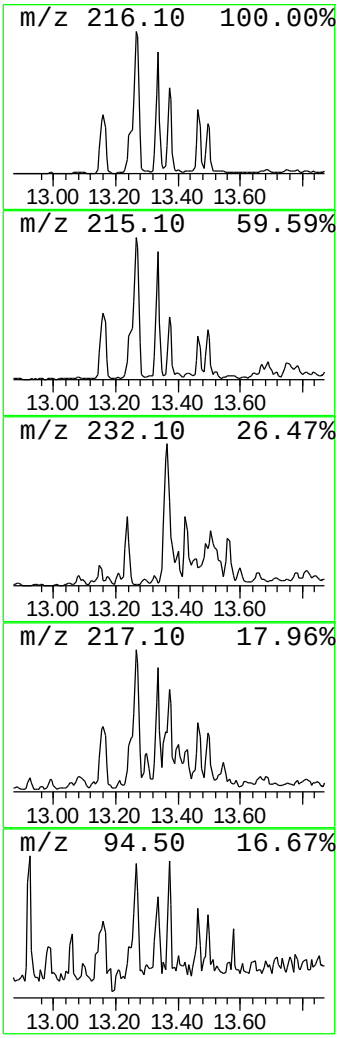
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.37	2.77 ng	339486	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	70





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Sample : J3249-03 5X
Misc :
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Instrument : BNA_F
ClientSampleId : PL-01-061818-B

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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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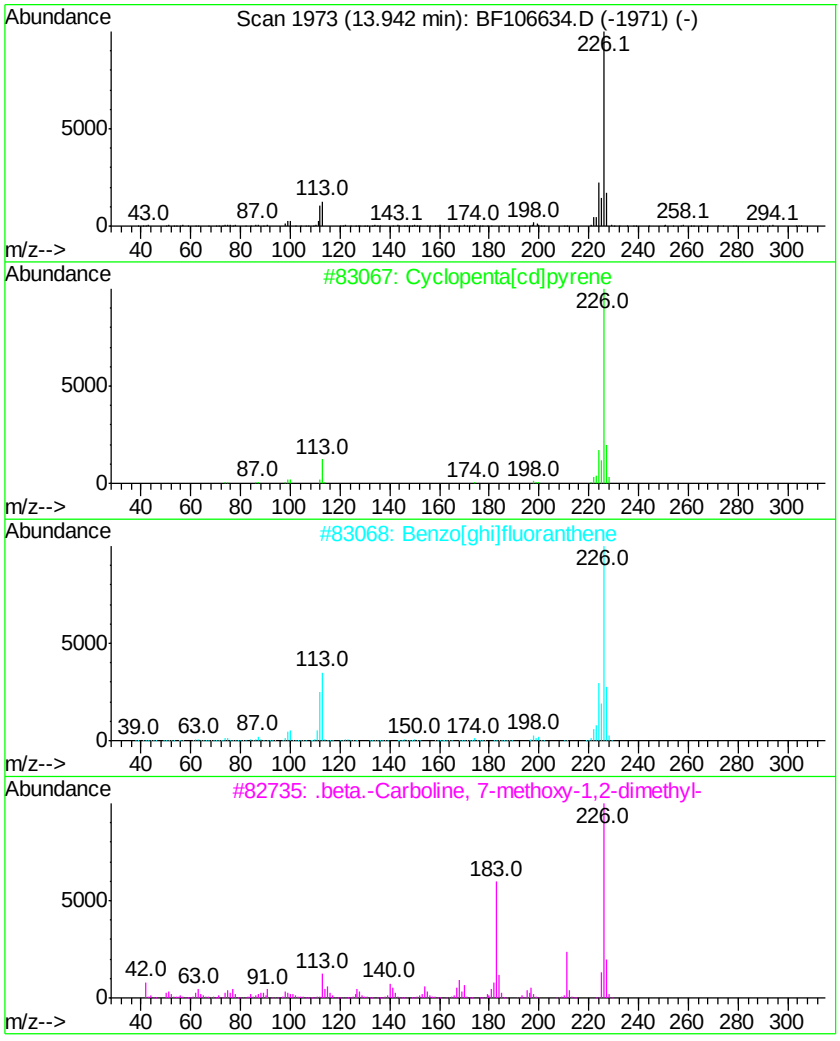
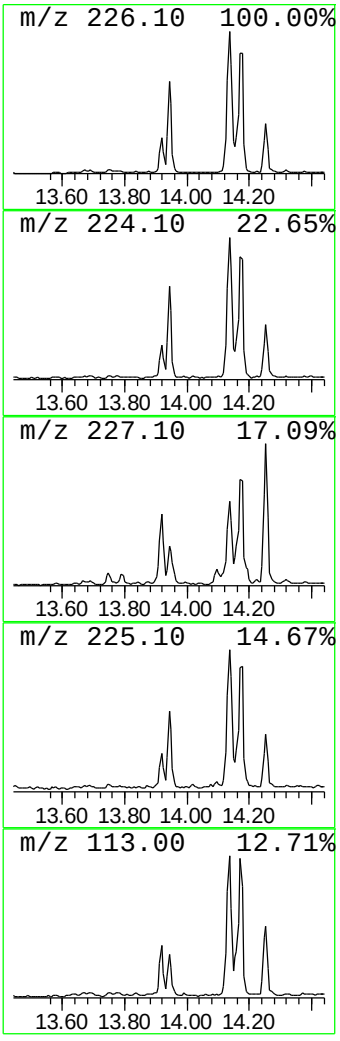
Peak Number 16 Cyclopenta[cd]pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.94	3.04 ng	372424	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	95
2	Benzo[ghi]fluoranthene	226	C18H10	000203-12-3	64
3	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	58
4	4-Naphthalen-2-yl-thiazol-2-ylamine	226	C13H10N2S	1000300-53-4	53
5	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	50





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ClientSampleId : PL-01-061818-B

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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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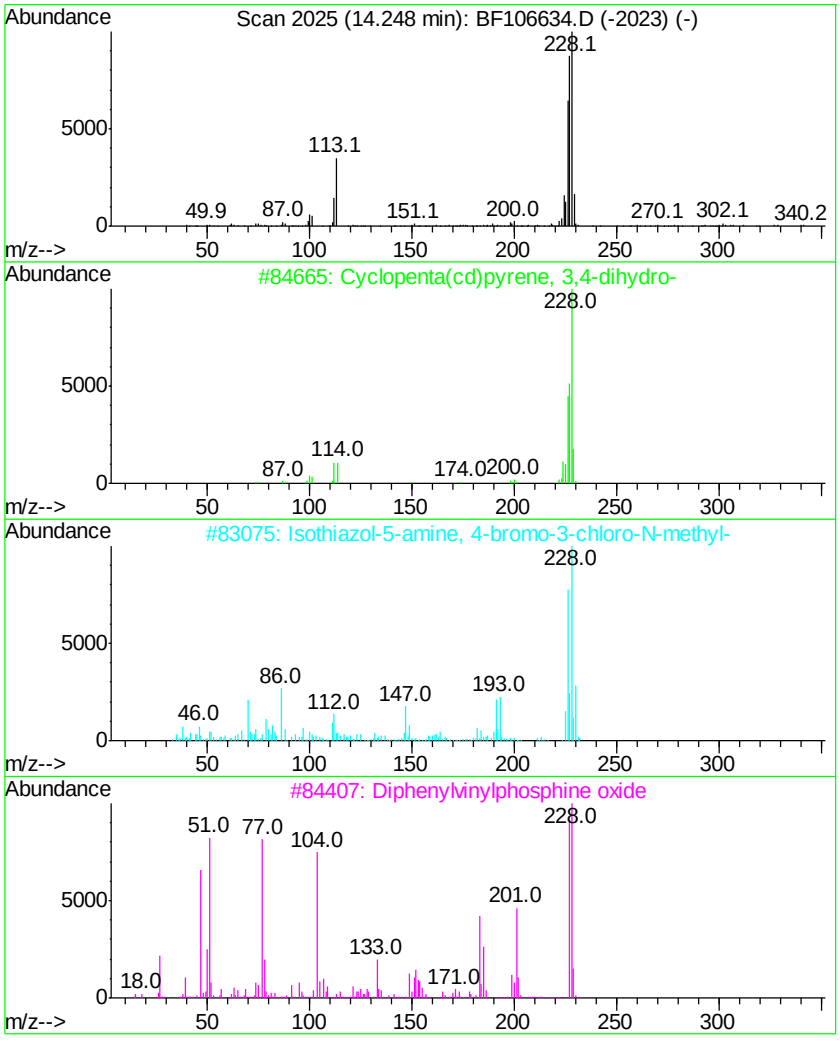
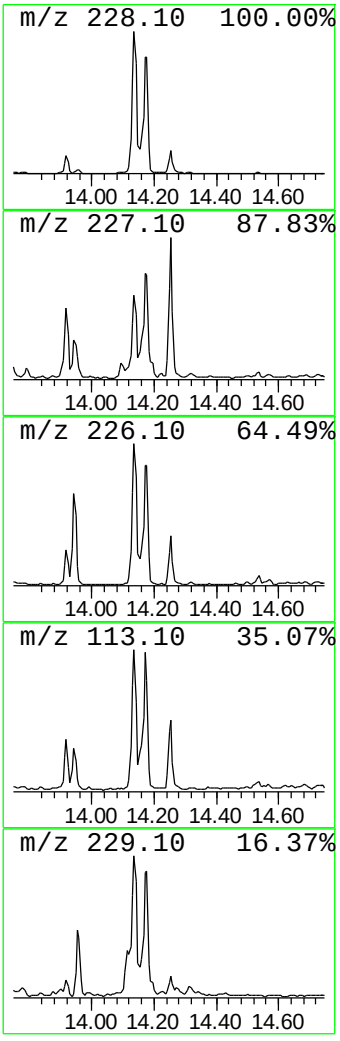
Peak Number 17 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.25	2.79 ng	341995	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	95
2	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	50
3	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	50
4	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
5	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50





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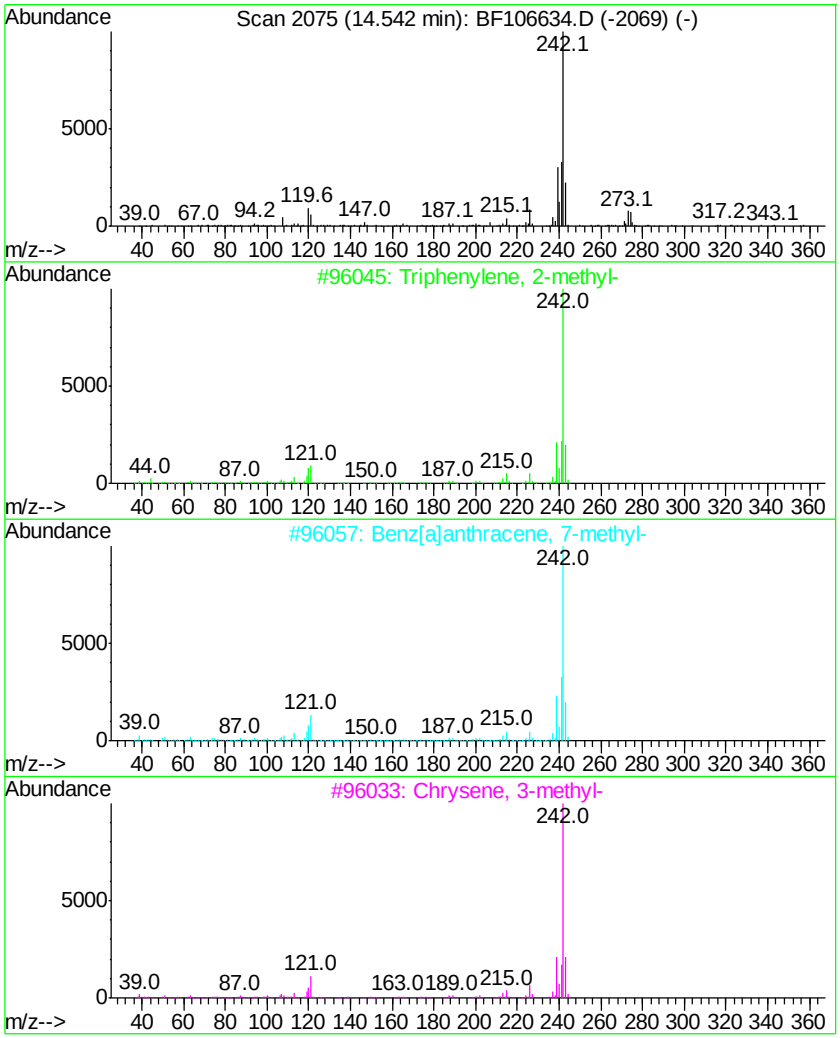
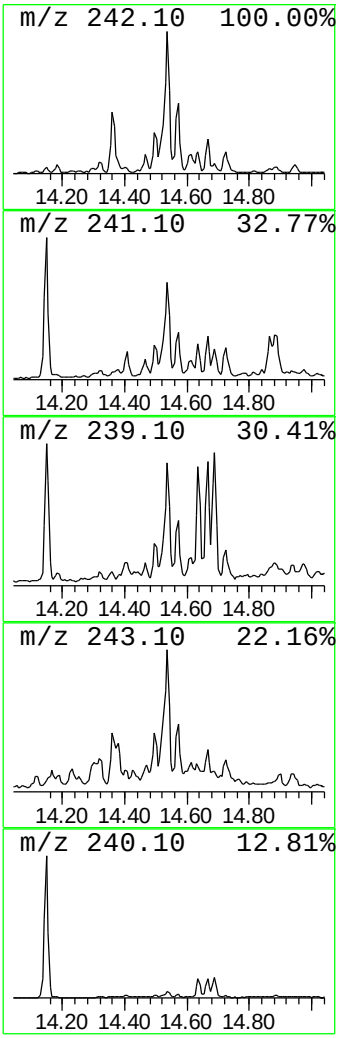
Peak Number 18 Triphenylene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.54	3.10 ng	379087	Chrysene-d12	14.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	95
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
3	Chrysene, 3-methyl-	242	C19H14	003351-31-3	89
4	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	89
5	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	86





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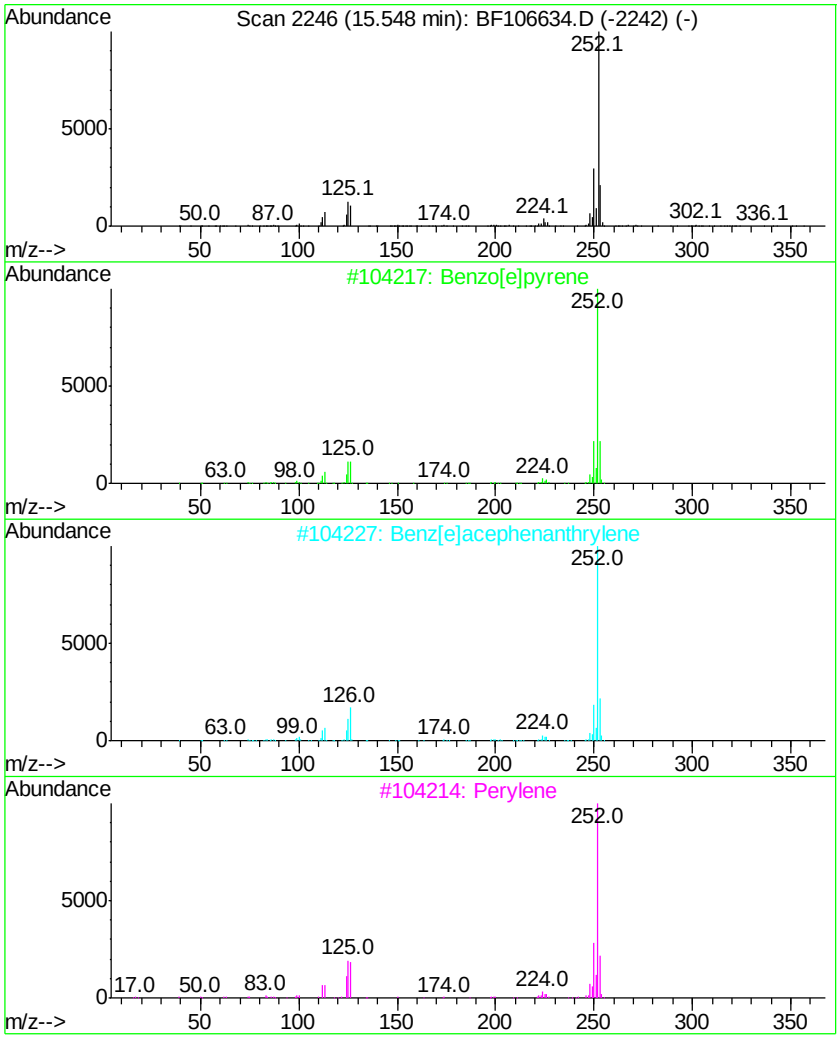
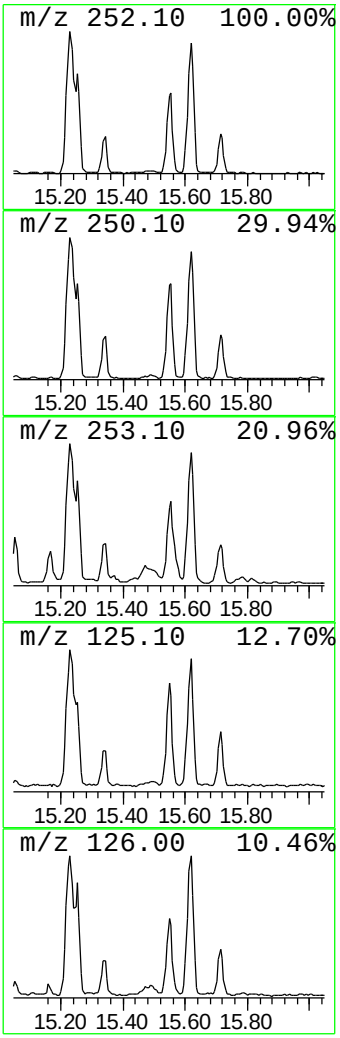
Peak Number 20 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	24.84 ng	772595	Perylene-d12	15.68

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	96
3	Perylene	252	C20H12	000198-55-0	96
4	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF062018\
Data File : BF106634.D
Acq On : 20 Jun 2018 21:55
Operator : JU/SJ
Sample : J3249-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : PL-01-061818-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061918.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
unknown6.74	6.74	16.3	ng	479085	1	6.96	589483	20.0
9H-Fluorene, 2-me...	11.10	3.2	ng	137499	4	11.49	862539	20.0
Anthracene, 2-met...	12.02	8.8	ng	378998	4	11.49	862539	20.0
Phenanthrene, 2-m...	12.07	4.4	ng	188527	4	11.49	862539	20.0
4H-Cyclopenta[def...	12.11	14.8	ng	639418	4	11.49	862539	20.0
1H-Indene, 2-phenyl-	12.13	3.2	ng	136572	4	11.49	862539	20.0
Naphthalene, 2-ph...	12.29	4.7	ng	203844	4	11.49	862539	20.0
Phenanthrene, 1,7...	12.54	6.8	ng	292331	4	11.49	862539	20.0
unknown12.58	12.58	4.0	ng	171885	4	11.49	862539	20.0
Cyclopenta(def)ph...	12.64	5.3	ng	230697	4	11.49	862539	20.0
11H-Benzo[b]fluorene	13.27	3.8	ng	467961	5	14.15	2449480	20.0
Pyrene, 1-methyl-	13.37	2.8	ng	339486	5	14.15	2449480	20.0
Cyclopenta[cd]pyrene	13.94	3.0	ng	372424	5	14.15	2449480	20.0
Cyclopenta(cd)pyr...	14.25	2.8	ng	341995	5	14.15	2449480	20.0
Triphenylene, 2-m...	14.54	3.1	ng	379087	5	14.15	2449480	20.0
Benzo[e]pyrene	15.55	24.8	ng	772595	6	15.68	622108	20.0