

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121517\  
 Data File : BF101457.D  
 Acq On : 15 Dec 2017 21:42  
 Operator : SJ/JU  
 Sample : I6875-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 15 22:37:18 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 15 17:36:17 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.82  | 152  | 162224   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.10  | 136  | 638718   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.85  | 164  | 264078   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.35 | 188  | 426906   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.00 | 240  | 294410   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.47 | 264  | 269691   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.43  | 112 | 1018179 | 93.49 | ng | 0.00 |
| 7) Phenol-d6                | 6.46  | 99  | 1225576 | 90.42 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.39  | 82  | 794471  | 69.24 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330 | 232548  | 91.39 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 9.17  | 172 | 1079412 | 63.41 | ng | 0.00 |
| 78) Terphenyl-d14           | 12.93 | 244 | 779316  | 63.81 | ng | 0.00 |

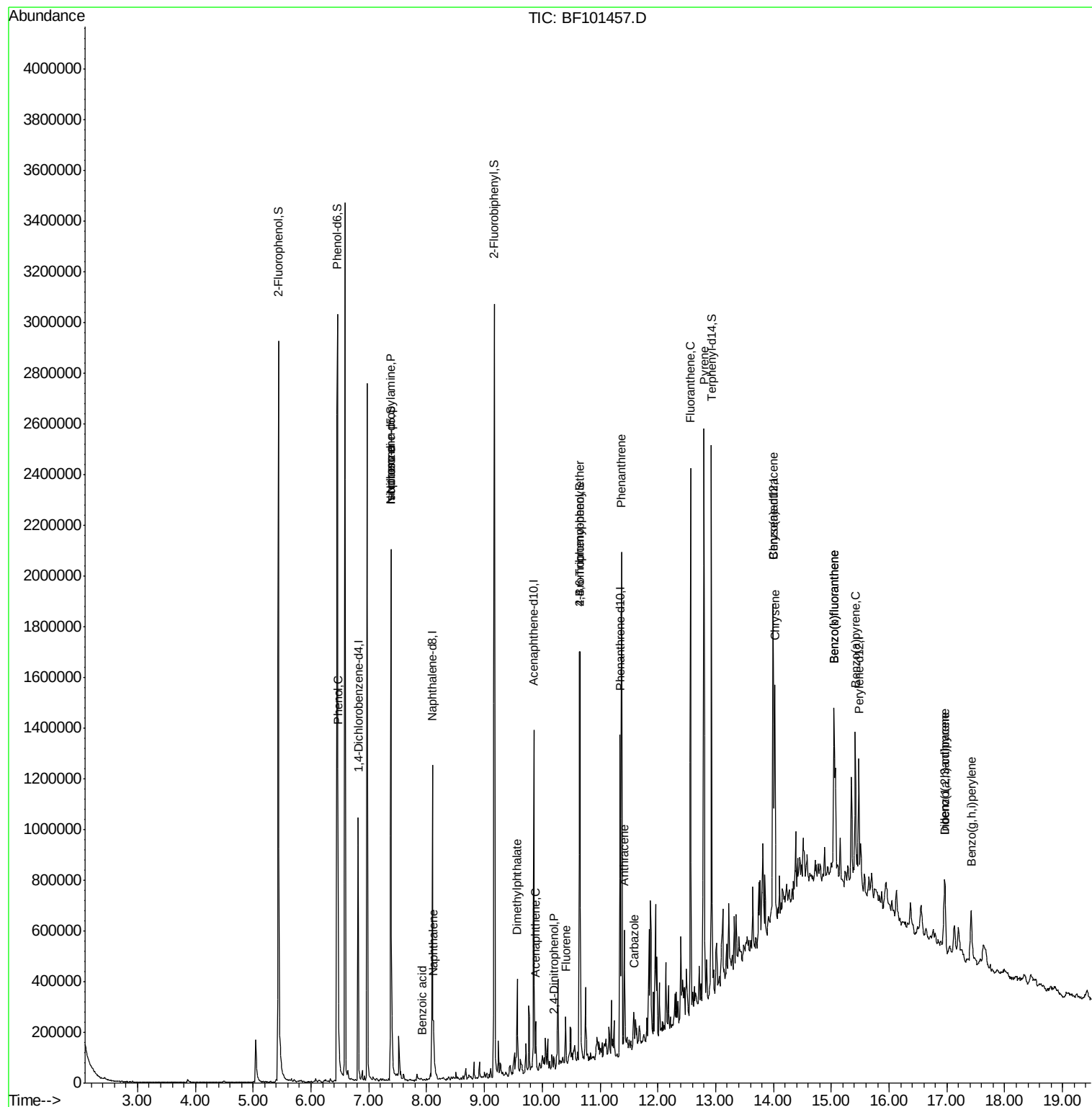
|                                |       |     |        |        |    |      |
|--------------------------------|-------|-----|--------|--------|----|------|
| Target Compounds               |       |     |        | Qvalue |    |      |
| 10) Phenol                     | 6.47  | 94  | 60580  | 3.922  | ng | 94   |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70  | 109740 | 12.329 | ng | # 82 |
| 25) Isophorone                 | 7.39  | 82  | 794464 | 34.515 | ng | # 64 |
| 31) Naphthalene                | 8.12  | 128 | 72647  | 2.259  | ng | 97   |
| 32) Benzoic acid               | 7.93  | 122 | 1191   | 8.120  | ng | # 70 |
| 49) Dimethylphthalate          | 9.57  | 163 | 151567 | 7.135  | ng | 99   |
| 51) Acenaphthene               | 9.89  | 154 | 36518  | 2.148  | ng | 99   |
| 53) 2,4-Dinitrophenol          | 10.21 | 184 | 154    | 10.410 | ng | # 40 |
| 57) Fluorene                   | 10.40 | 166 | 51755  | 2.831  | ng | 97   |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248 | 14854  | 3.097  | ng | # 1  |
| 70) Phenanthrene               | 11.37 | 178 | 780604 | 32.880 | ng | 99   |
| 71) Anthracene                 | 11.42 | 178 | 194778 | 8.032  | ng | 99   |
| 72) Carbazole                  | 11.59 | 167 | 49064  | 2.161  | ng | 99   |
| 74) Fluoranthene               | 12.57 | 202 | 938351 | 37.655 | ng | 96   |
| 77) Pyrene                     | 12.80 | 202 | 960370 | 43.465 | ng | 100  |
| 80) Benzo(a)anthracene         | 13.99 | 228 | 448524 | 23.072 | ng | 99   |
| 82) Chrysene                   | 14.03 | 228 | 411865 | 22.439 | ng | 99   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.96 | 276 | 174534 | 10.678 | ng | # 92 |
| 87) Benzo(b)fluoranthene       | 15.04 | 252 | 549269 | 33.414 | ng | 96   |
| 88) Benzo(k)fluoranthene       | 15.04 | 252 | 549269 | 34.367 | ng | 99   |
| 89) Benzo(a)pyrene             | 15.42 | 252 | 307185 | 20.271 | ng | 97   |
| 90) Dibenzo(a,h)anthracene     | 16.96 | 278 | 47323  | 3.637  | ng | # 83 |
| 91) Benzo(g,h,i)perylene       | 17.42 | 276 | 175968 | 13.658 | ng | 97   |

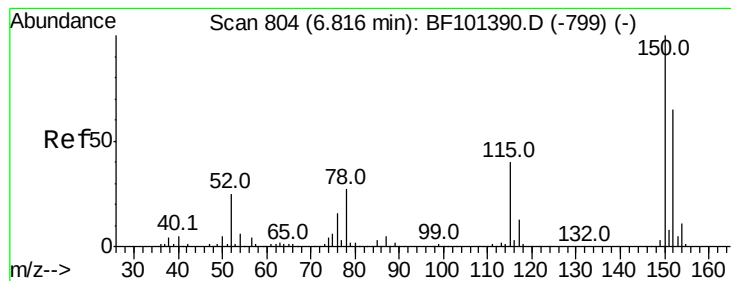
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF121517\  
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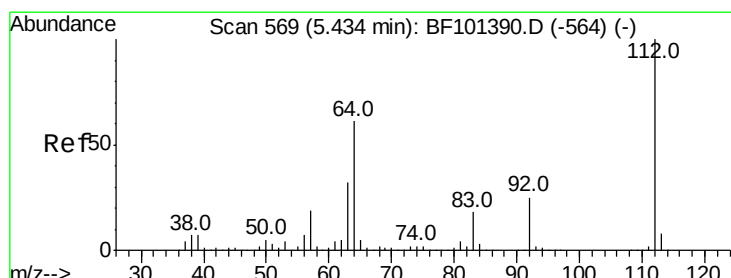
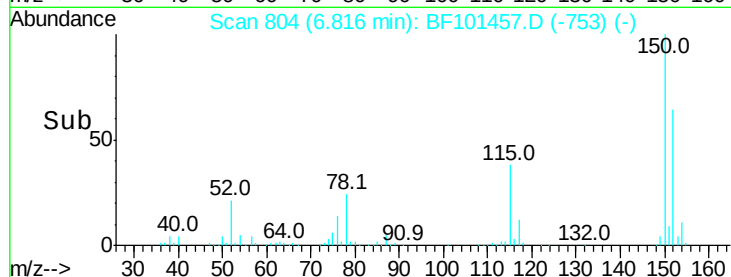
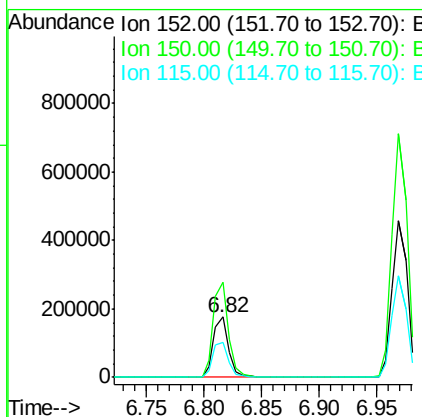
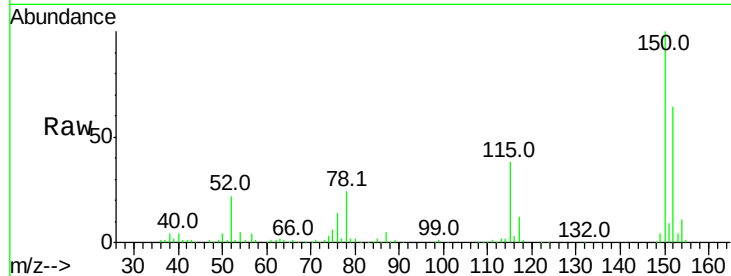


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 804  
Delta R.T. 0.00 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

Instrument :  
BNA\_F  
ClientSampled :

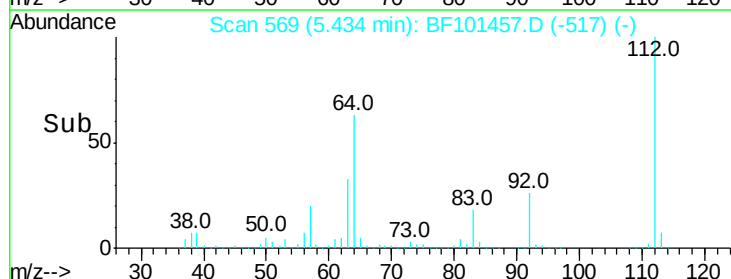
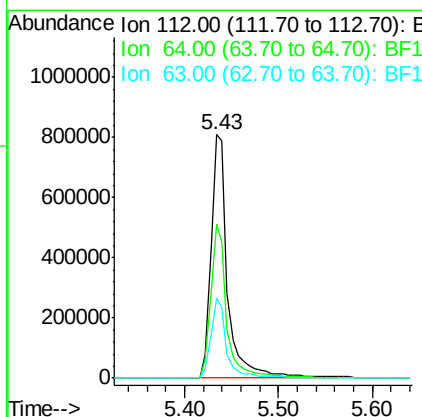
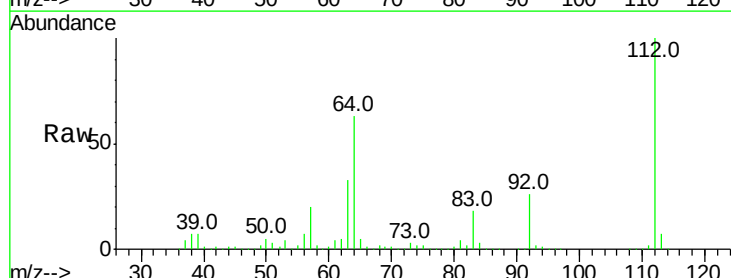
Tot Ion:152 Resp: 162224  
Ion Ratio Lower Upper  
152 100  
150 156.7 124.6 186.8  
115 58.8 50.1 75.1

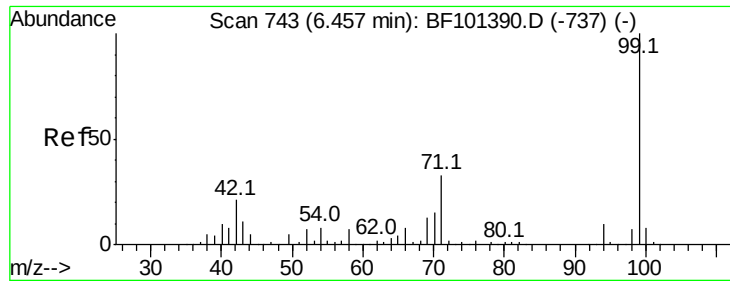


#5

2-Fluorophenol  
Concen: 93.492 ng  
RT: 5.43 min Scan# 569  
Delta R.T. 0.01 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

Tgt Ion:112 Resp: 1018179  
Ion Ratio Lower Upper  
112 100  
64 63.1 47.9 71.9  
63 32.8 23.7 35.5





#7

Phenol-d6

Concen: 90.423 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.00 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :

BNA\_F

ClientSampleId :

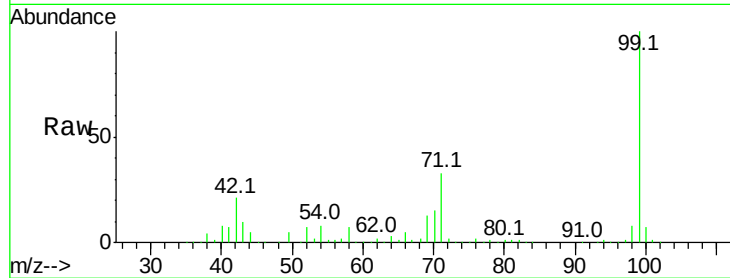
Tot Ion: 99 Resp: 1225576

Ion Ratio Lower Upper

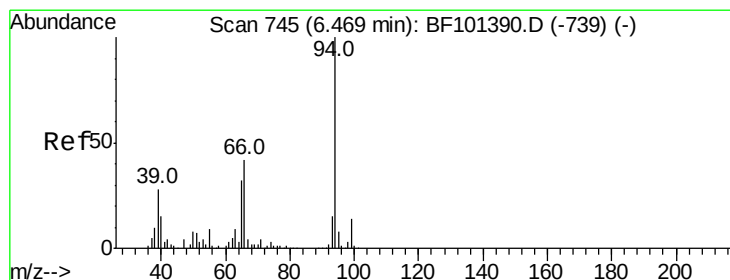
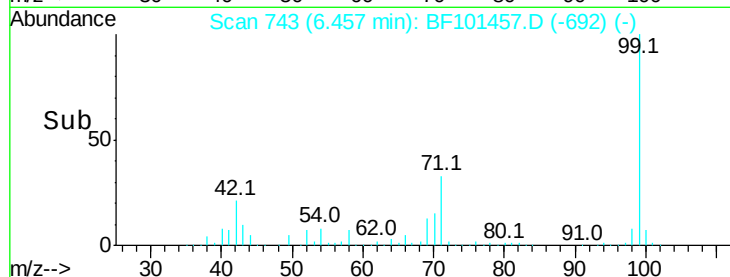
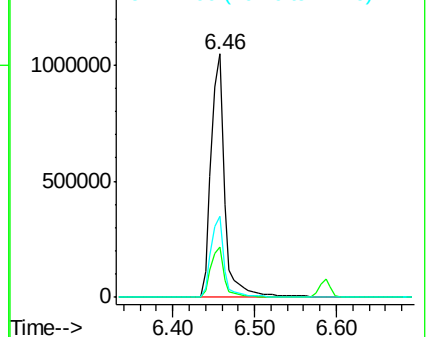
99 100

42 20.6 14.5 21.7

71 33.2 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.922 ng

RT: 6.47 min Scan# 745

Delta R.T. 0.00 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

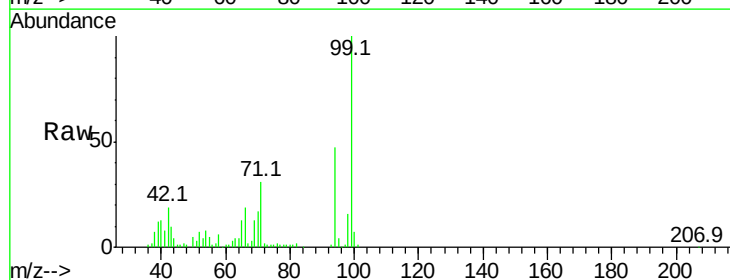
Tgt Ion: 94 Resp: 60580

Ion Ratio Lower Upper

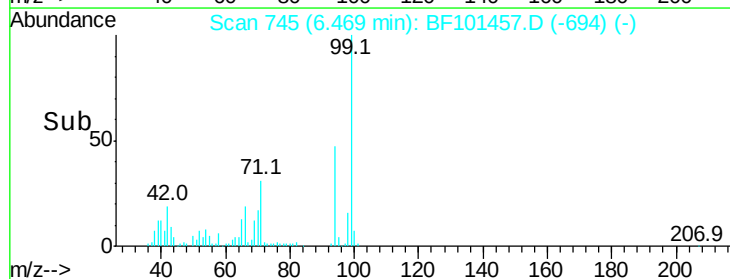
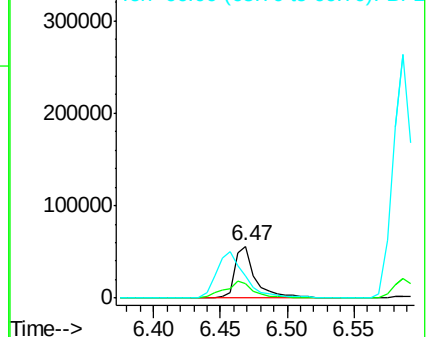
94 100

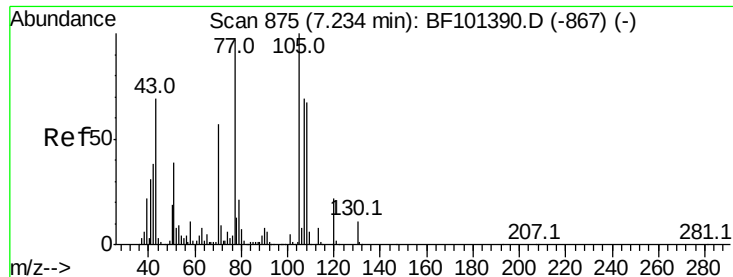
65 27.4 7.9 47.9

66 41.7 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 12.329 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

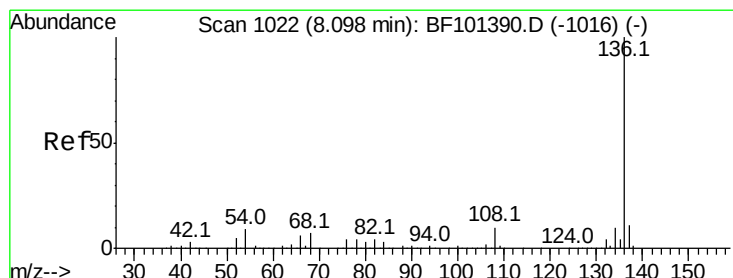
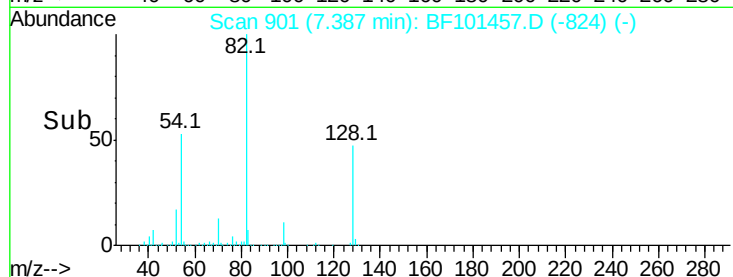
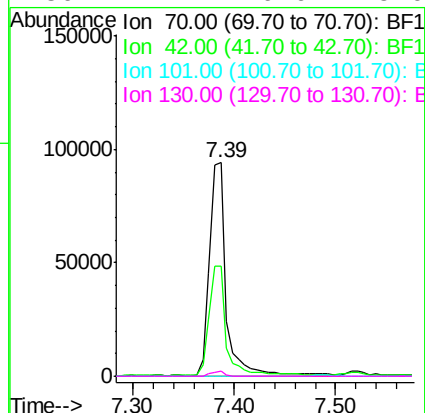
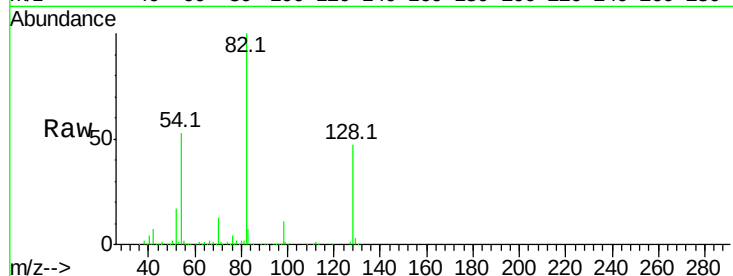
Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 70 Resp: 109740

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 51.8  | 47.5  | 71.3  |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.4   | 16.6  | 25.0# |



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

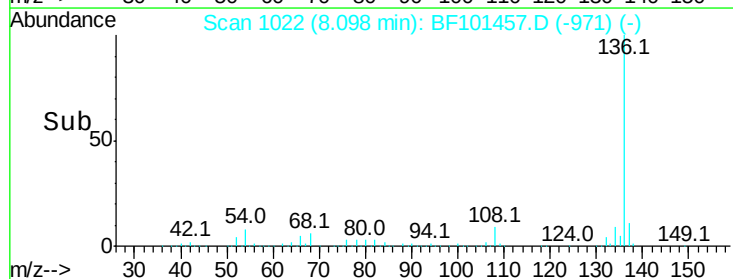
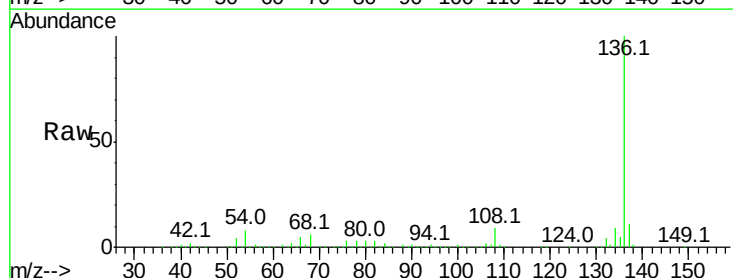
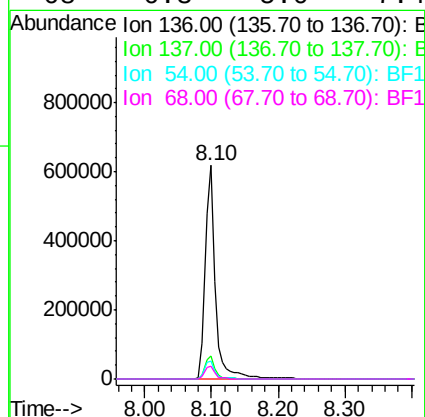
Delta R.T. 0.00 min

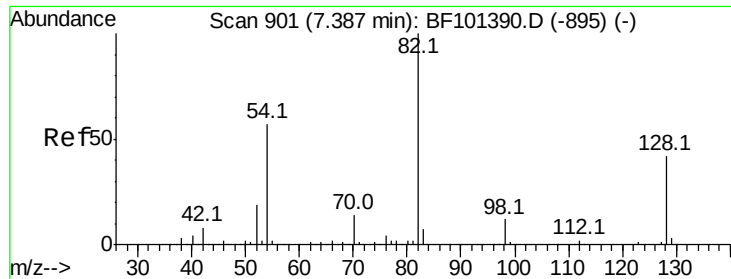
Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Tgt Ion: 136 Resp: 638718

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.9   | 13.3  |
| 54  | 8.5   | 6.6   | 9.8   |
| 68  | 6.3   | 5.0   | 7.4   |

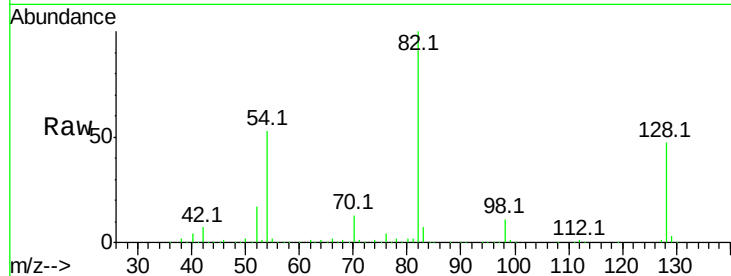




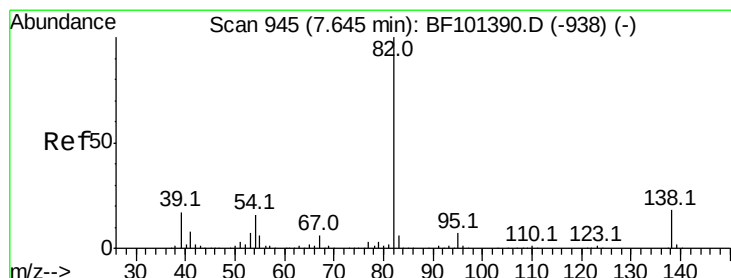
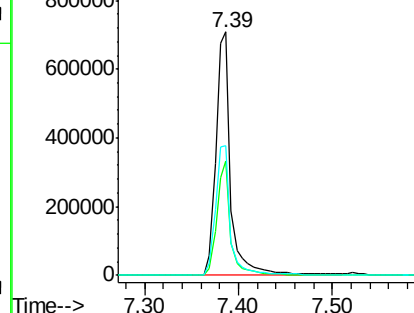
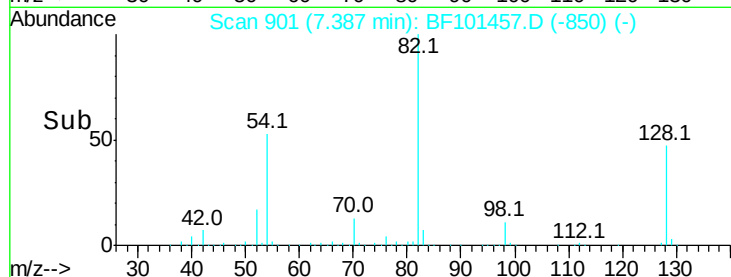
#23  
 Nitrobenzene-d5  
 Concen: 69.240 ng  
 RT: 7.39 min Scan# 901  
 Delta R.T. 0.00 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion   | 82   | Resp | 794471 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     | 36.1 |      |        |
| Upper     | 54.1 |      |        |
| 54        | 53.5 | 41.4 | 62.2   |

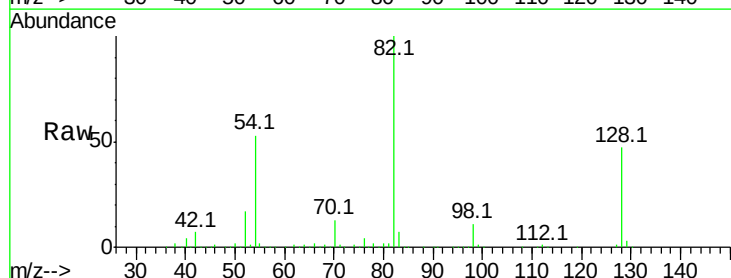


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

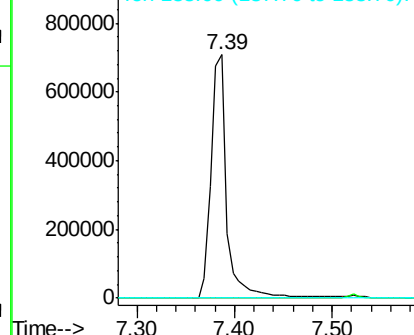
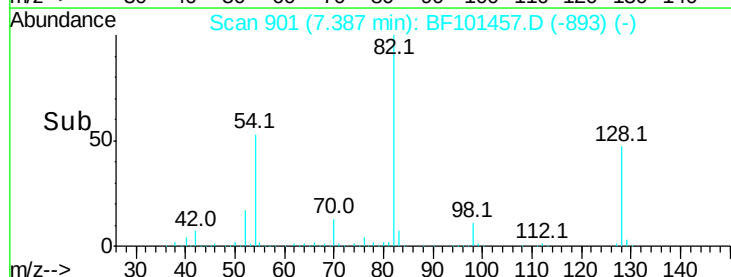


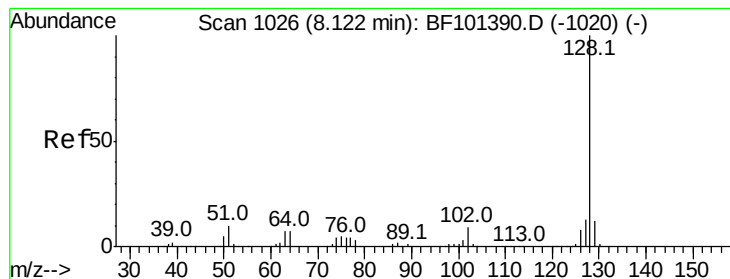
#25  
 Isophorone  
 Concen: 34.515 ng  
 RT: 7.39 min Scan# 901  
 Delta R.T. -0.25 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

| Tgt Ion   | 82   | Resp | 794464 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     | 5.2  |      |        |
| Upper     | 7.8# |      |        |
| 95        | 0.1  | 14.9 | 22.3#  |
| 138       | 0.0  |      |        |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 2.259 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :

BNA\_F

ClientSampleId :

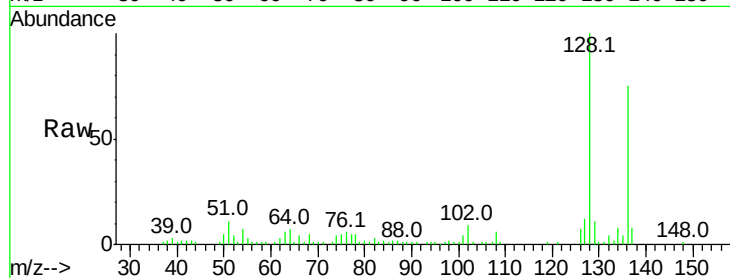
Tot Ion:128 Resp: 72647

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

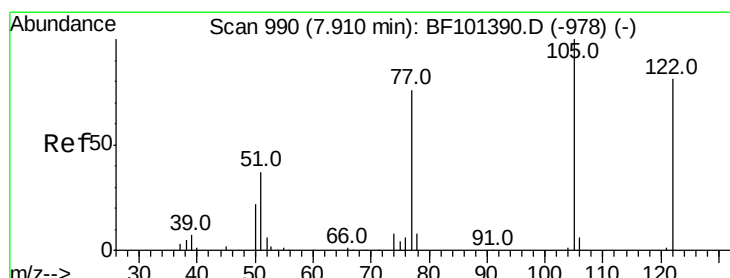
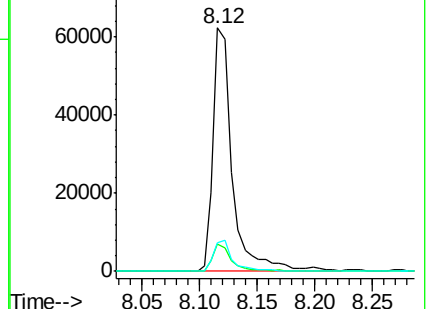
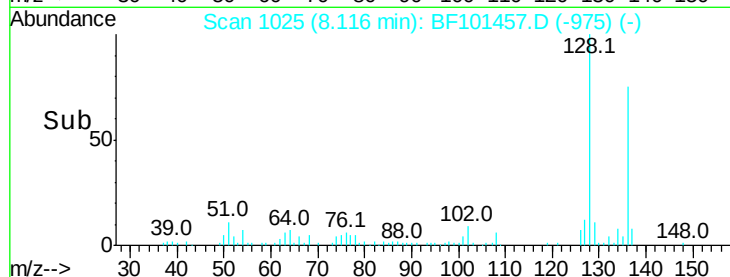
127 11.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 8.120 ng

RT: 7.93 min Scan# 994

Delta R.T. 0.02 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

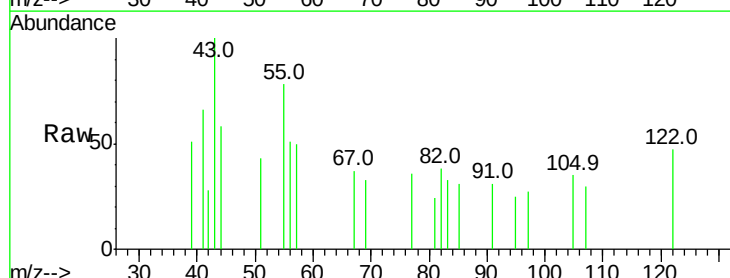
Tgt Ion:122 Resp: 1191

Ion Ratio Lower Upper

122 100

105 75.1 101.1 141.1#

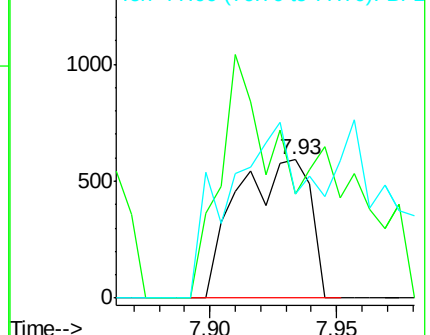
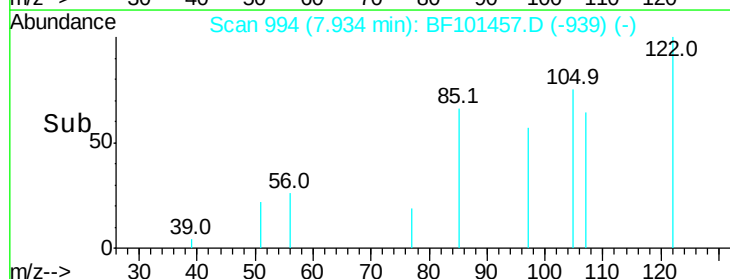
77 75.6 70.7 110.7

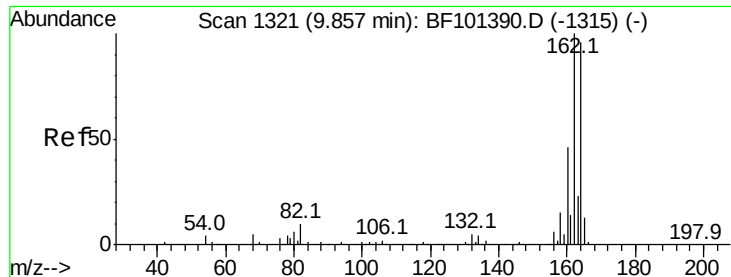


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.01 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :

BNA\_F

ClientSampleId :

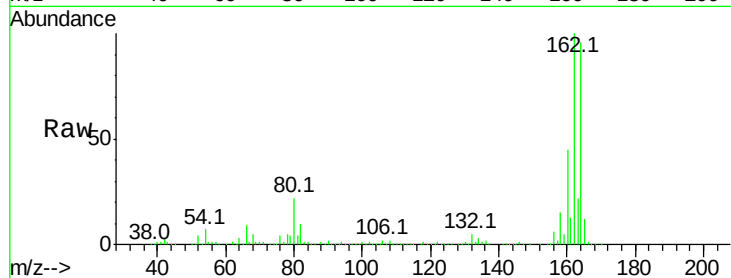
Tot Ion:164 Resp: 264078

Ion Ratio Lower Upper

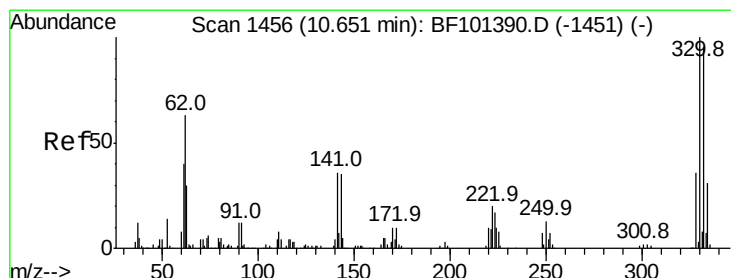
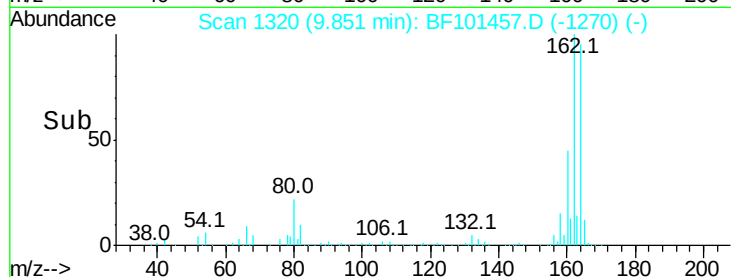
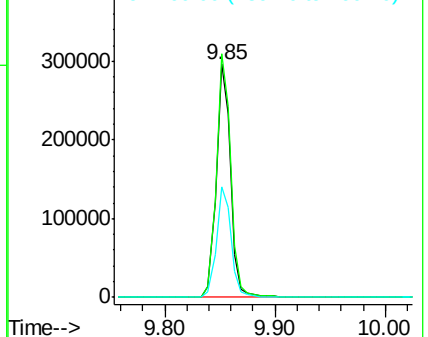
164 100

162 104.6 86.1 129.1

160 47.4 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 91.389 ng

RT: 10.65 min Scan# 1456

Delta R.T. 0.00 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

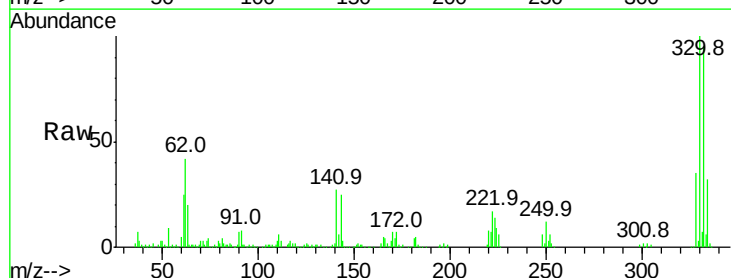
Tgt Ion:330 Resp: 232548

Ion Ratio Lower Upper

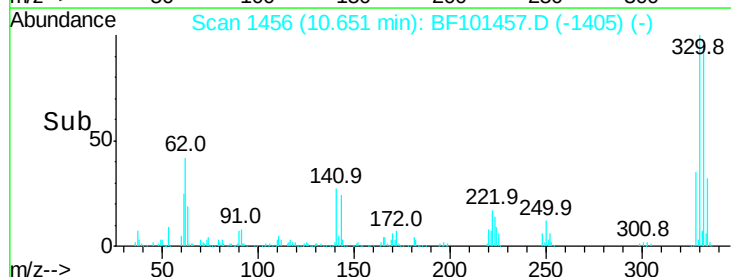
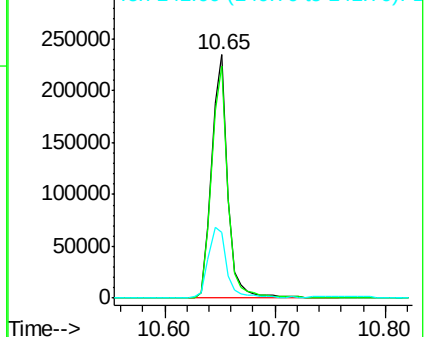
330 100

332 96.6 77.0 115.6

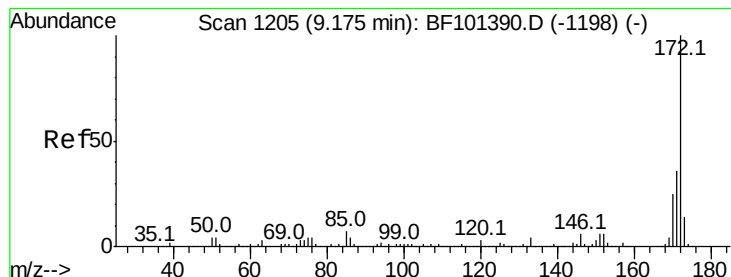
141 33.3 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E







#44

2-Fluorobiphenyl

Concen: 63.407 ng

RT: 9.17 min Scan# 1205

Delta R.T. 0.00 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

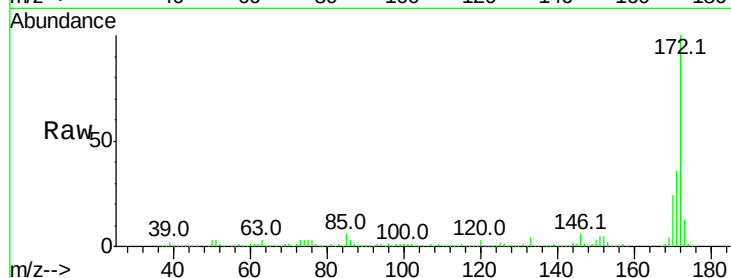
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:172 Resp: 1079412

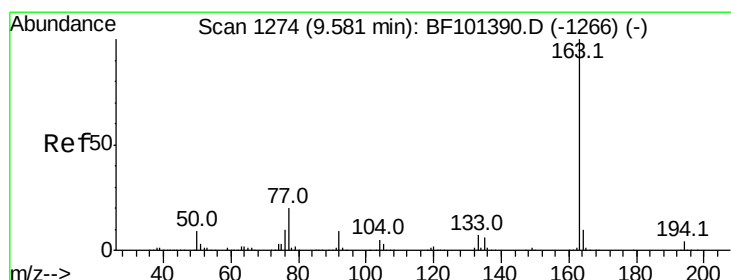
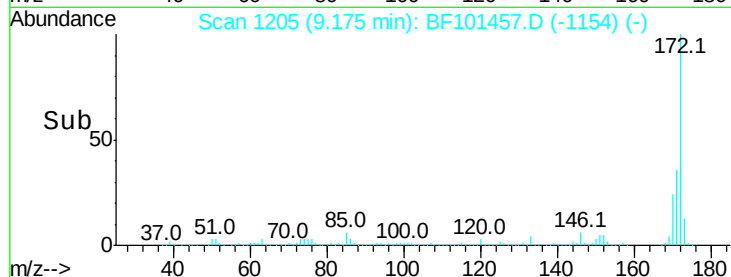
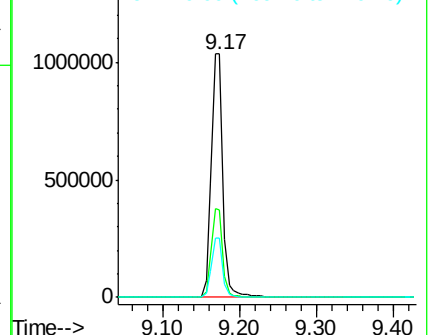
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.9  | 29.7  | 44.5  |
| 170 | 24.5  | 19.6  | 29.4  |



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 7.135 ng

RT: 9.57 min Scan# 1272

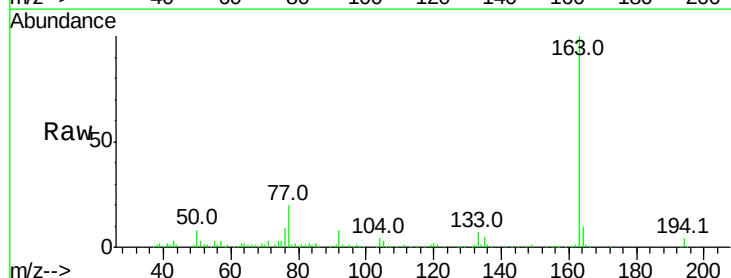
Delta R.T. -0.01 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Tgt Ion:163 Resp: 151567

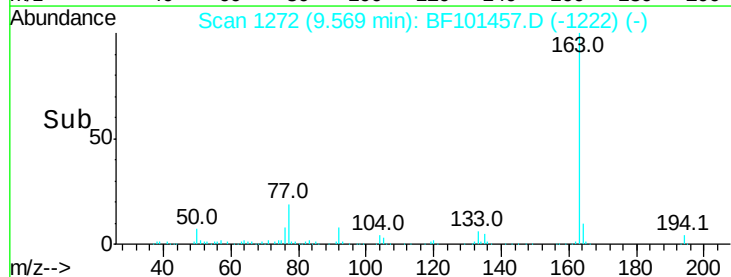
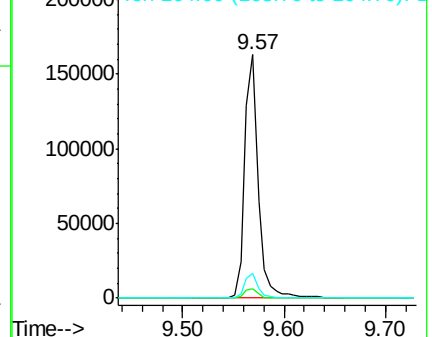
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 3.6   | 2.7   | 4.1   |
| 164 | 9.9   | 8.2   | 12.2  |

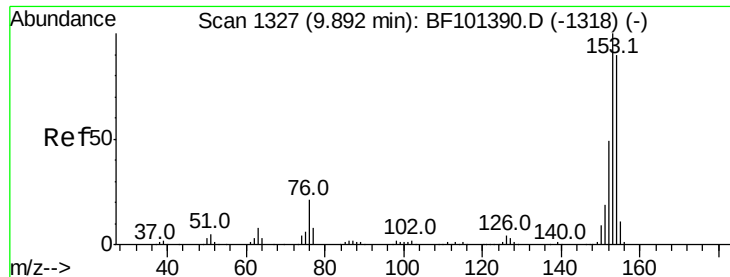


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.148 ng

RT: 9.89 min Scan# 1326

Delta R.T. -0.01 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :

BNA\_F

ClientSampleId :

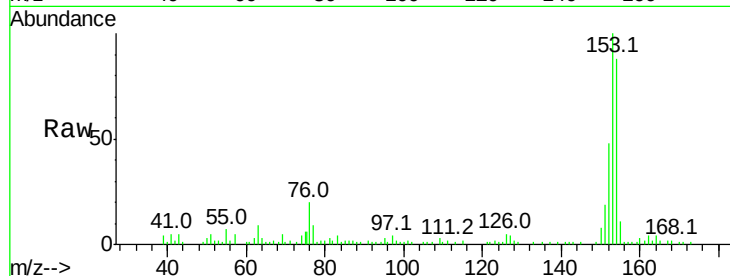
Tot Ion:154 Resp: 36518

Ion Ratio Lower Upper

154 100

153 113.5 91.2 136.8

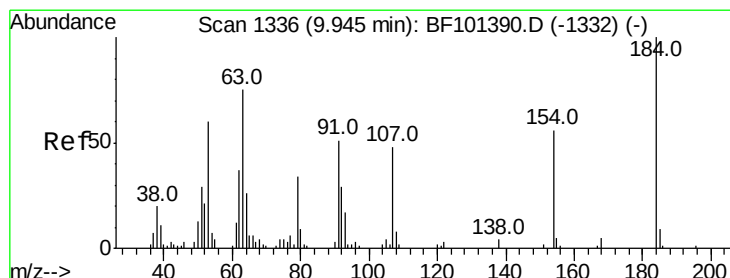
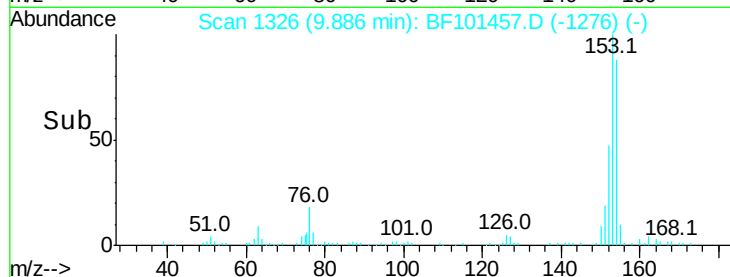
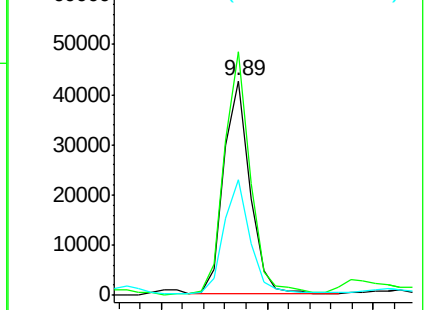
152 54.0 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#53

2,4-Dinitrophenol

Concen: 10.410 ng

RT: 10.21 min Scan# 1381

Delta R.T. 0.26 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

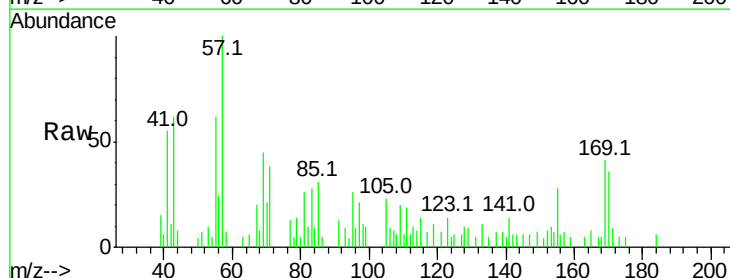
Tgt Ion:184 Resp: 154

Ion Ratio Lower Upper

184 100

63 81.8 54.2 81.2#

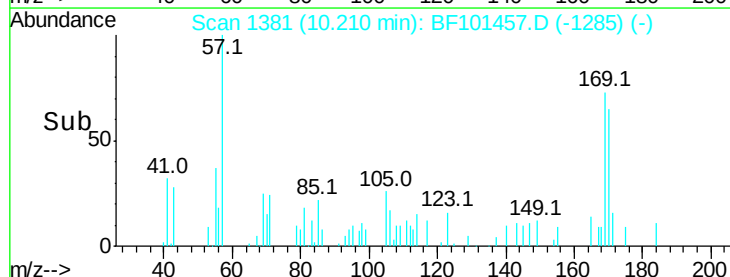
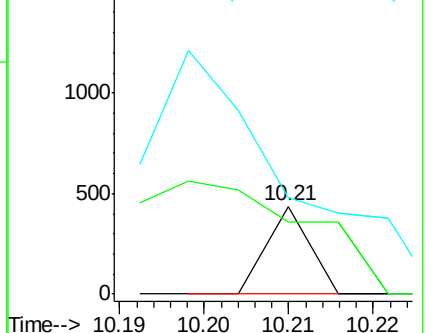
154 110.6 184.0 276.0#

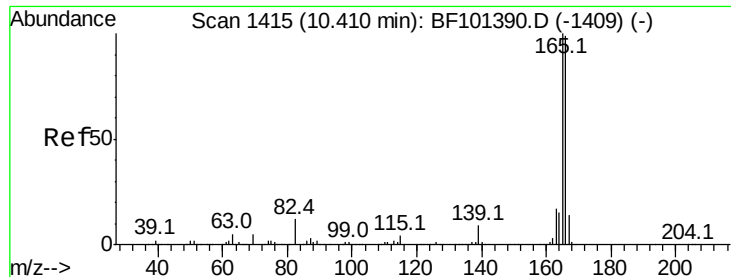


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E

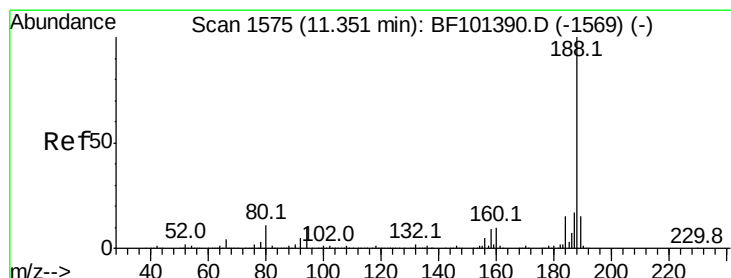
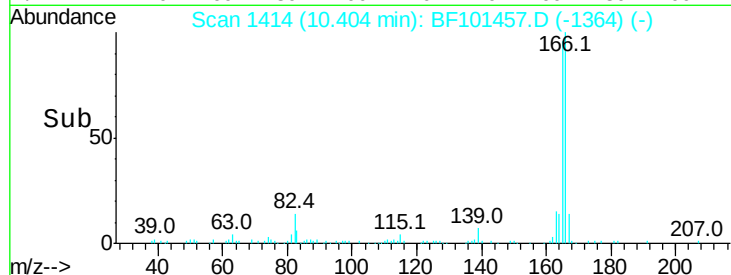
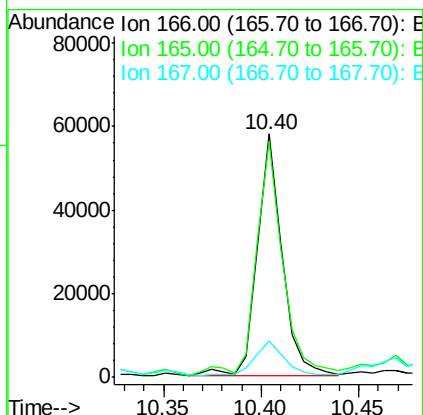
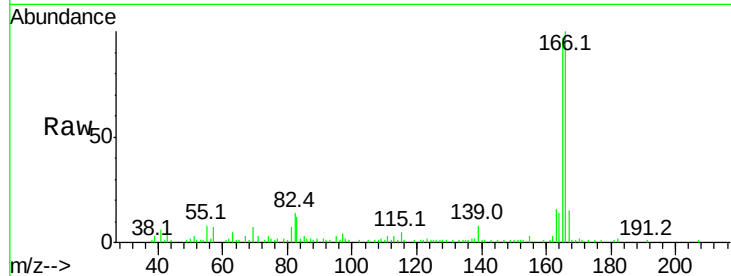




#57  
Fluorene  
Concen: 2.831 ng  
RT: 10.40 min Scan# 1414  
Delta R.T. -0.01 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

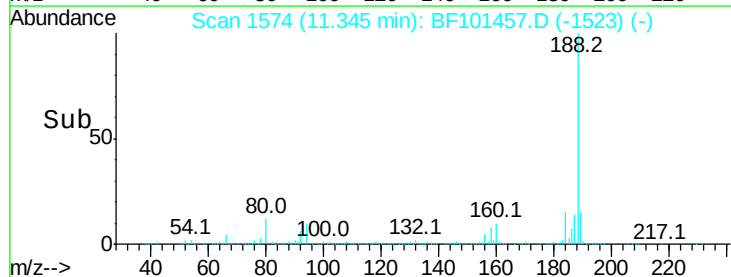
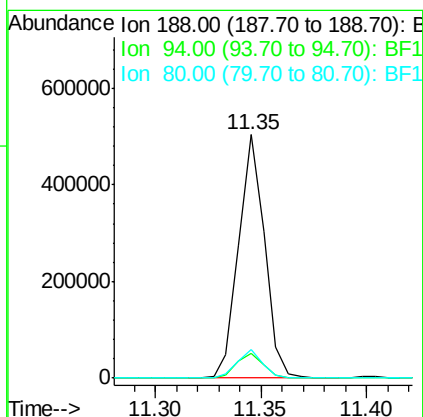
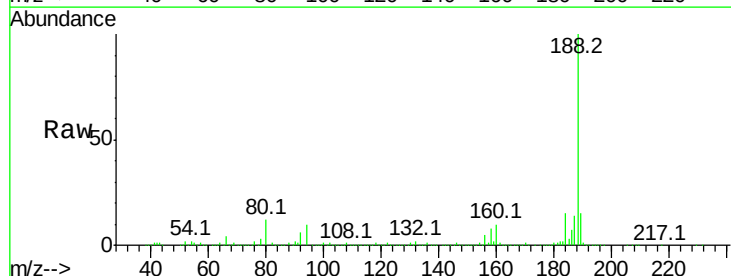
Instrument :  
BNA\_F  
ClientSampleId :

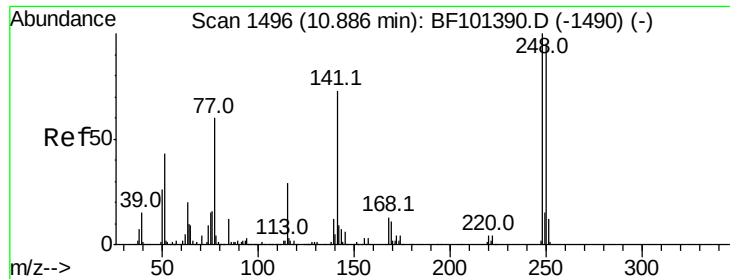
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.9  | 79.8  | 119.8 |
| 167     | 15.1  | 10.6  | 16.0  |



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.35 min Scan# 1574  
Delta R.T. 0.00 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 8.5   | 12.7  |
| 80      | 11.6  | 9.2   | 13.8  |

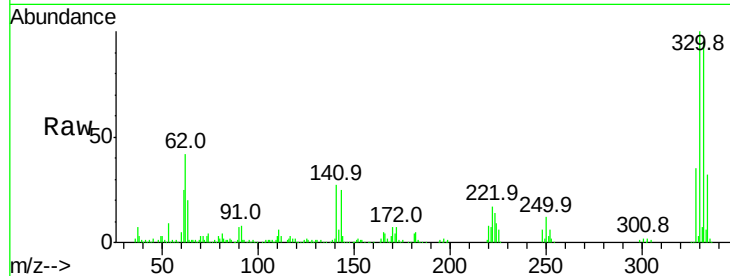




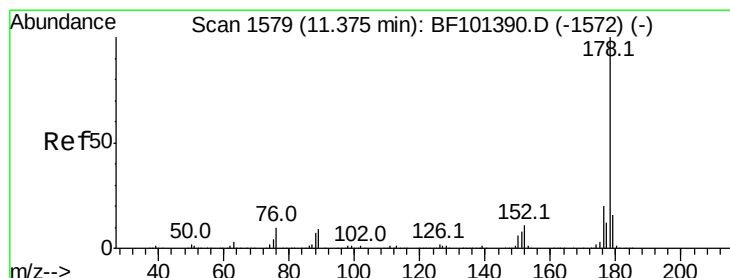
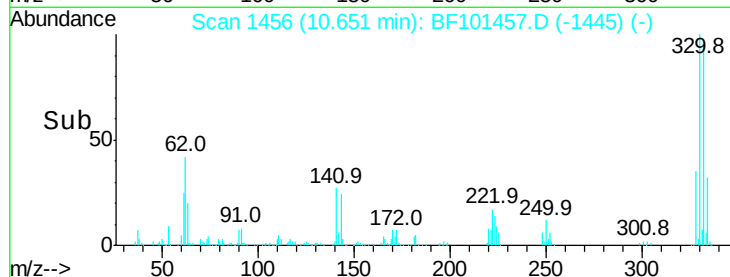
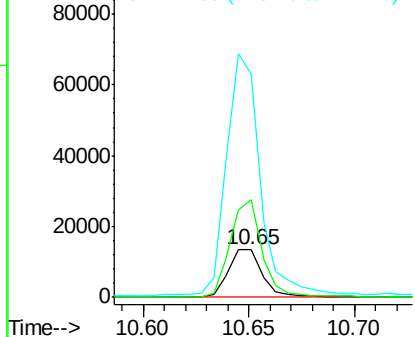
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.097 ng  
 RT: 10.65 min Scan# 1456  
 Delta R.T. -0.24 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 14854  
 Ion Ratio Lower Upper  
 248 100  
 250 204.6 76.9 115.3#  
 141 470.0 74.4 111.6#

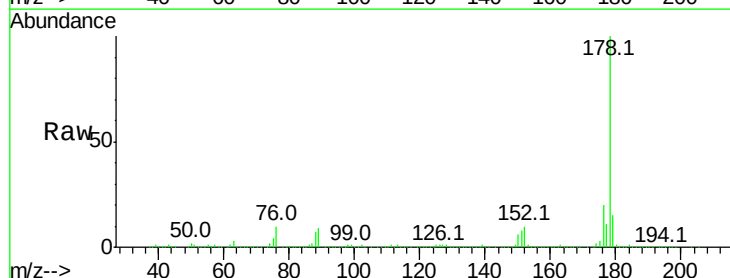


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

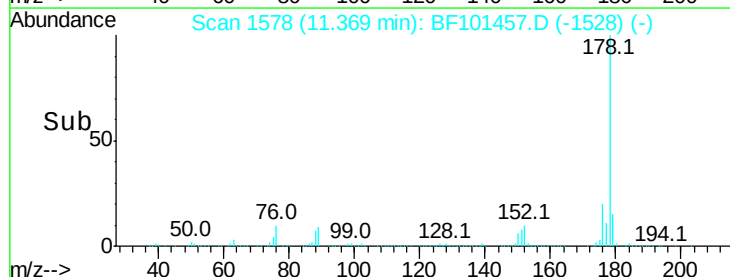
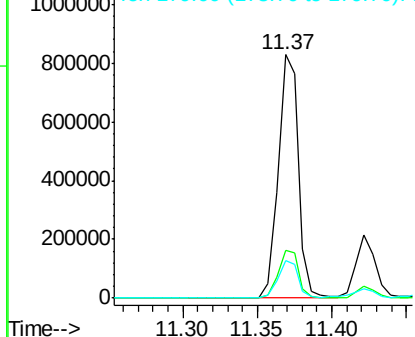


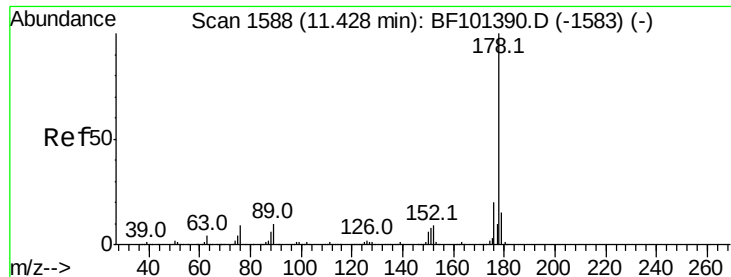
#70  
 Phenanthrene  
 Concen: 32.880 ng  
 RT: 11.37 min Scan# 1578  
 Delta R.T. -0.01 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

Tgt Ion:178 Resp: 780604  
 Ion Ratio Lower Upper  
 178 100  
 176 19.6 15.8 23.8  
 179 15.2 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

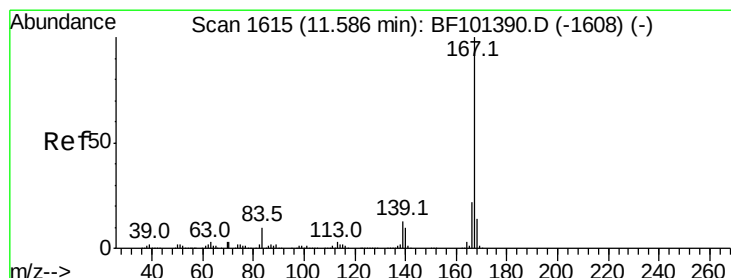
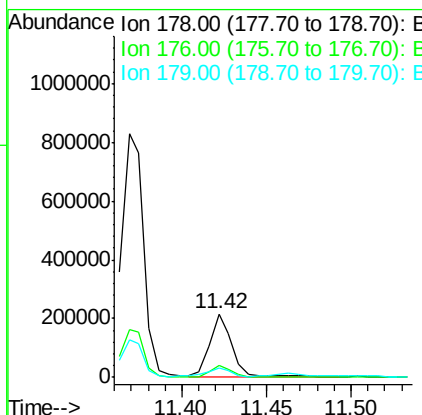
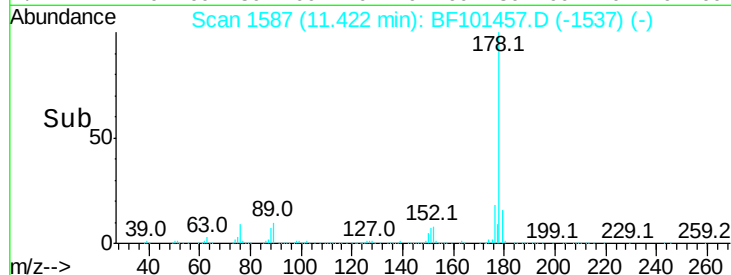
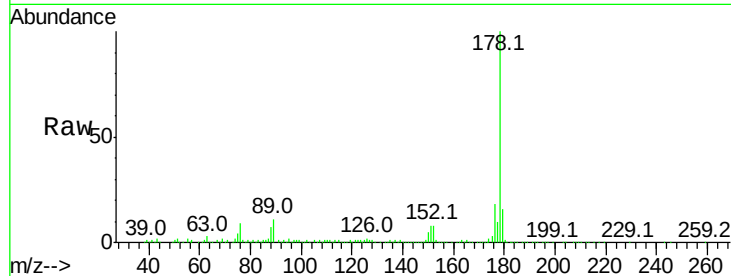




#71  
 Anthracene  
 Concen: 8.032 ng  
 RT: 11.42 min Scan# 1587  
 Delta R.T. -0.01 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

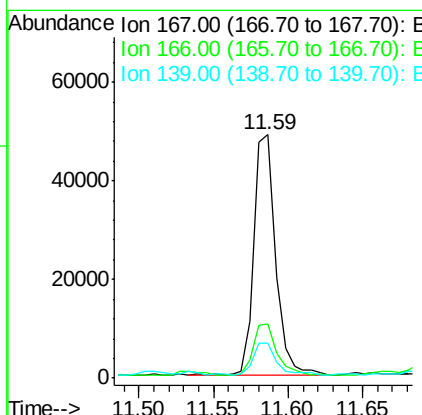
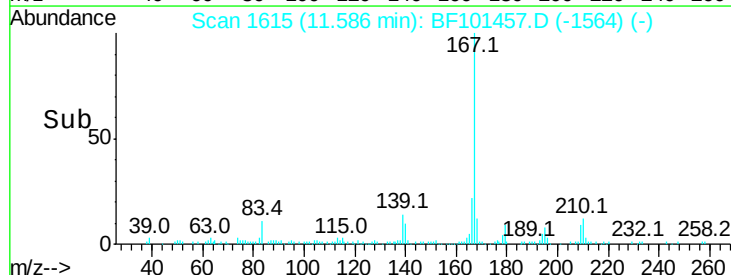
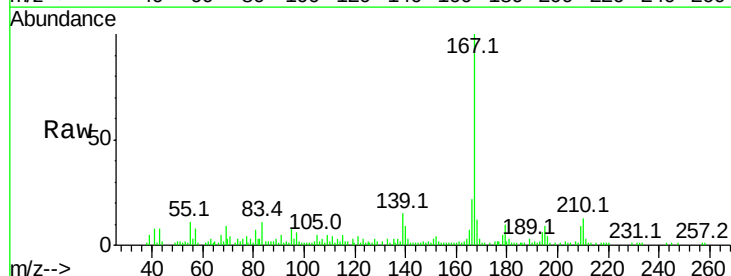
Instrument :  
 BNA\_F  
 ClientSampleId :

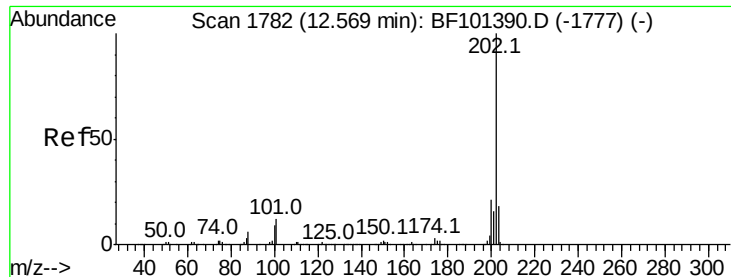
Tot Ion:178 Resp: 194778  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 15.4 23.2  
 179 15.7 12.6 19.0



#72  
 Carbazole  
 Concen: 2.161 ng  
 RT: 11.59 min Scan# 1615  
 Delta R.T. 0.00 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

Tgt Ion:167 Resp: 49064  
 Ion Ratio Lower Upper  
 167 100  
 166 22.1 17.6 26.4  
 139 14.6 10.9 16.3

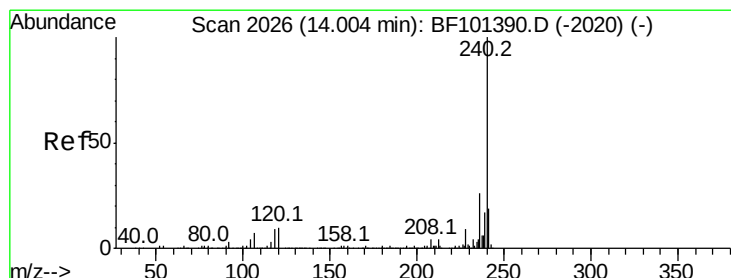
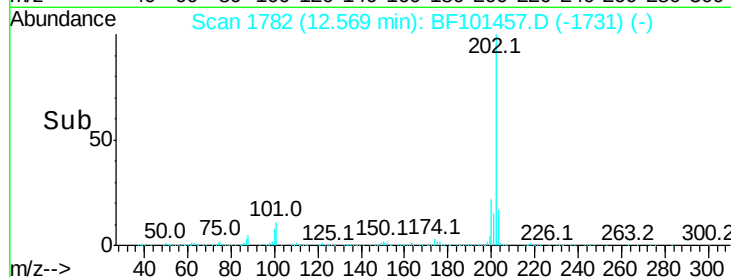
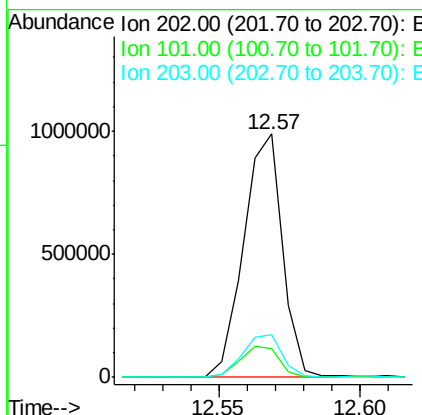
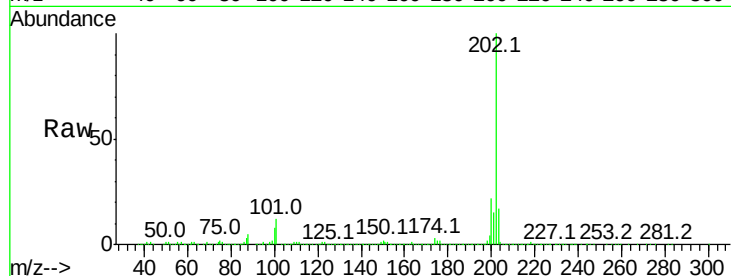




#74  
 Fluoranthene  
 Concen: 37.655 ng  
 RT: 12.57 min Scan# 1782  
 Delta R.T. 0.00 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

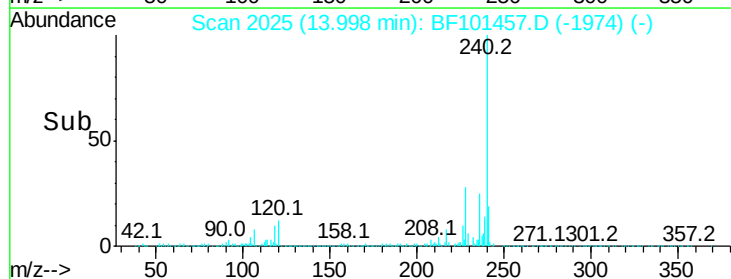
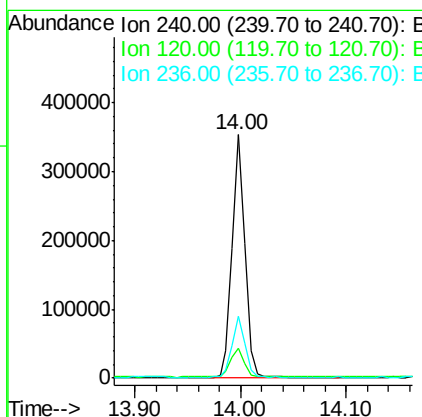
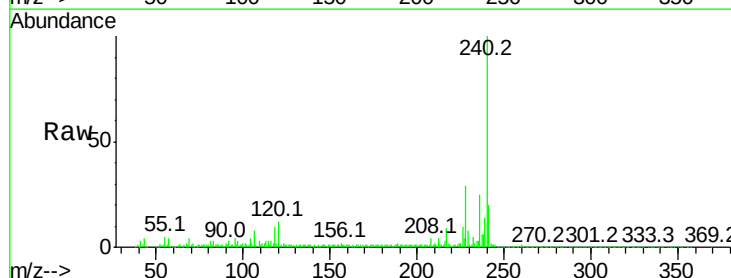
Instrument :  
 BNA\_F  
 ClientSampled :

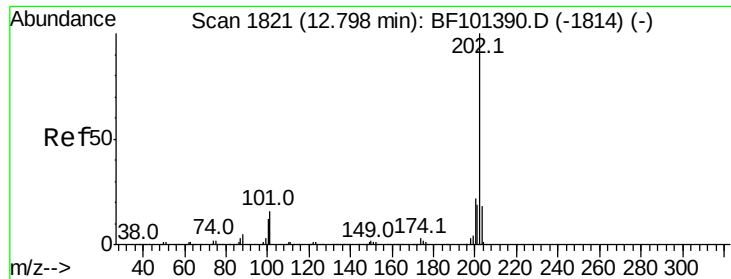
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.5  | 0.0   | 34.1  |
| 203     | 17.4  | 0.0   | 38.1  |



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2025  
 Delta R.T. 0.00 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.1  | 9.5   | 14.3  |
| 236     | 25.2  | 20.7  | 31.1  |

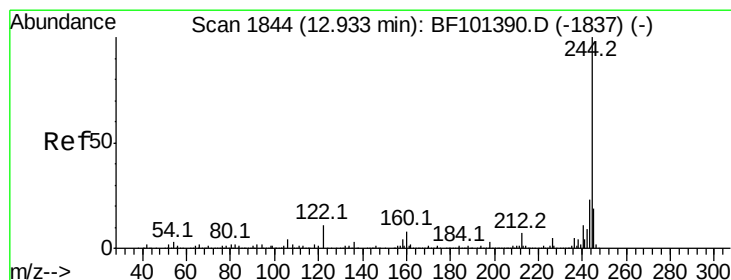
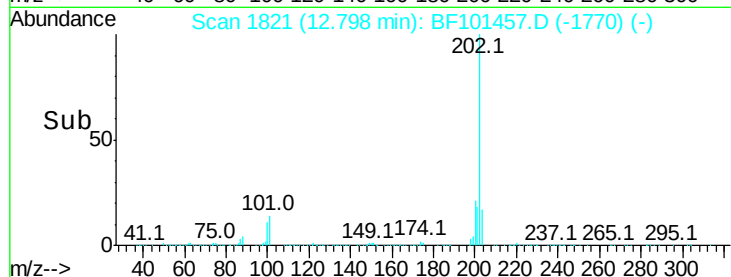
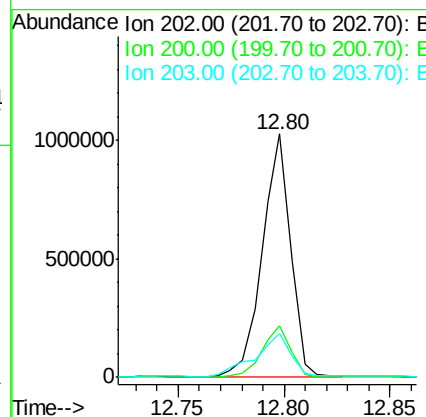
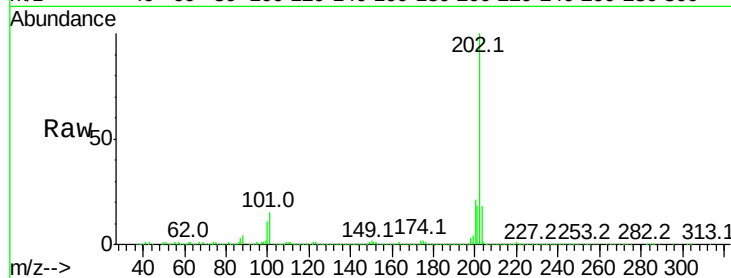




#77  
Pvrene  
Concen: 43.465 ng  
RT: 12.80 min Scan# 1821  
Delta R.T. 0.00 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

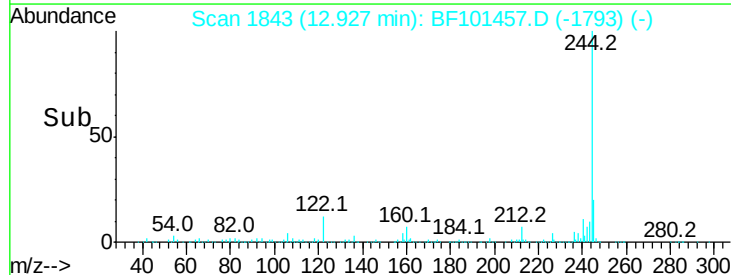
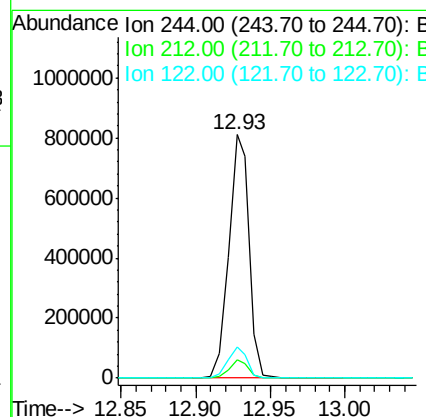
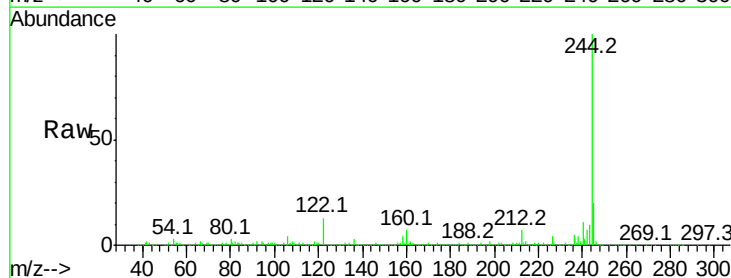
Instrument :  
BNA\_F  
ClientSampleId :

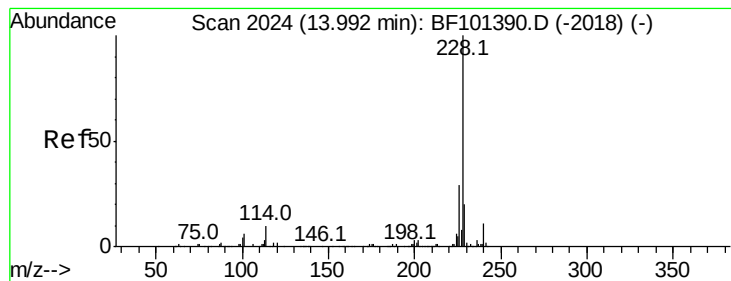
Tot Ion:202 Resp: 960370  
Ion Ratio Lower Upper  
202 100  
200 21.5 17.4 26.2  
203 17.9 14.3 21.5



#78  
Terphenyl-d14  
Concen: 63.814 ng  
RT: 12.93 min Scan# 1843  
Delta R.T. -0.01 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

Tgt Ion:244 Resp: 779316  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.4 8.0  
122 12.6 11.0 16.4





#80

Benzo(a)anthracene

Concen: 23.072 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :

BNA\_F

ClientSampleId :

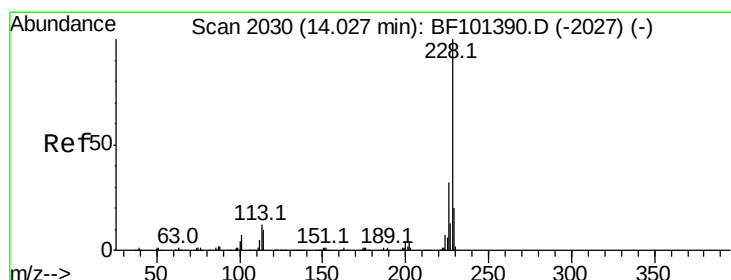
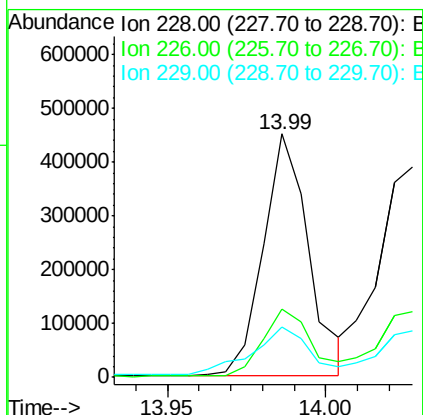
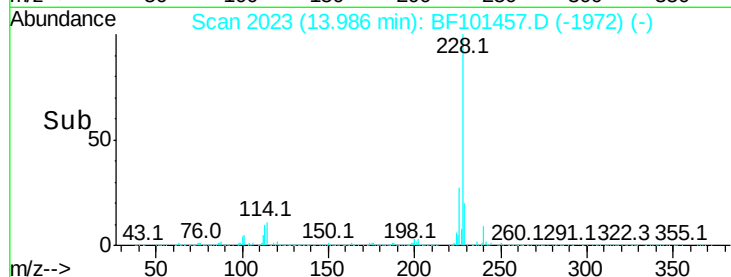
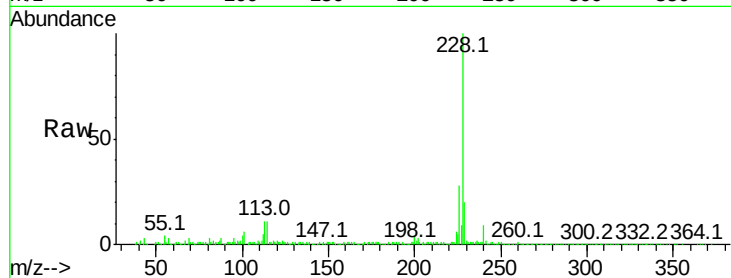
Tot Ion:228 Resp: 448524

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

229 20.4 15.8 23.6



#82

Chrysene

Concen: 22.439 ng

RT: 14.03 min Scan# 2030

Delta R.T. 0.00 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

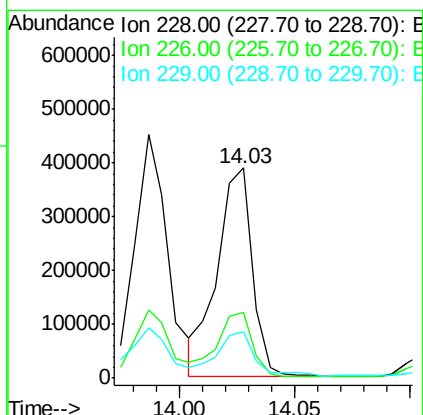
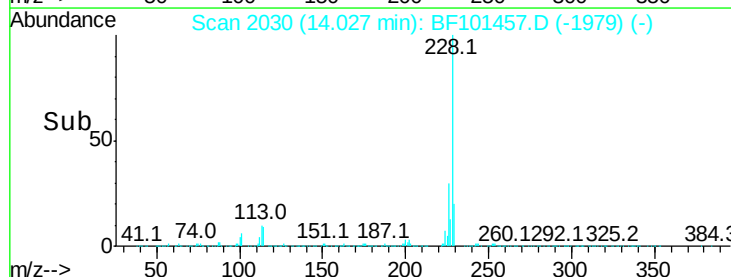
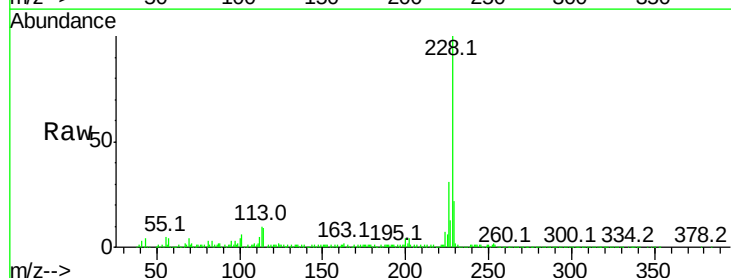
Tgt Ion:228 Resp: 411865

Ion Ratio Lower Upper

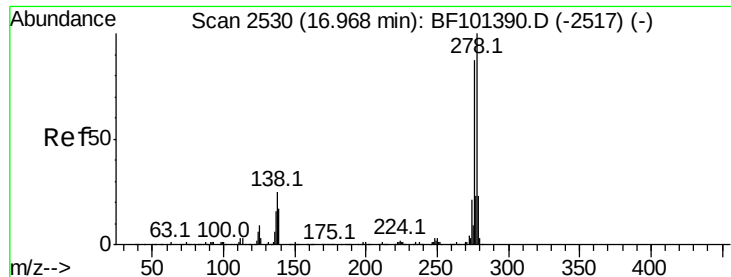
228 100

226 31.2 25.0 37.6

229 21.8 16.2 24.4



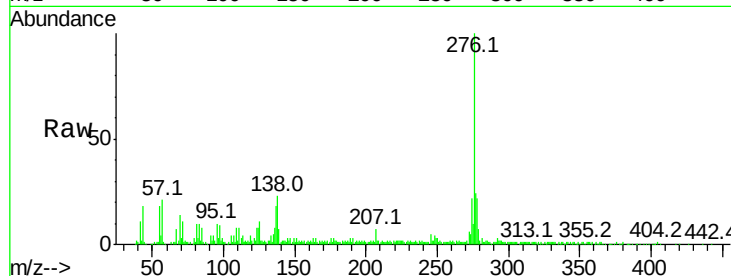




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 10.678 ng  
 RT: 16.96 min Scan# 2529  
 Delta R.T. -0.01 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.9  | 25.0  | 37.6# |
| 277     | 25.1  | 20.1  | 30.1  |

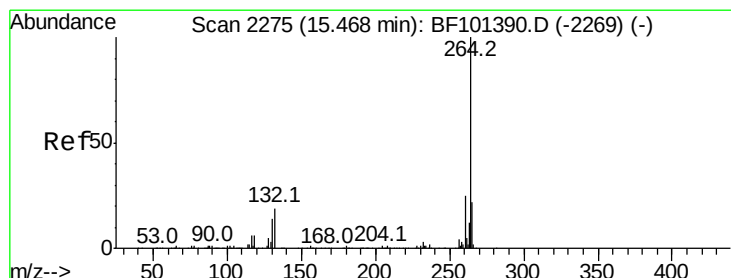
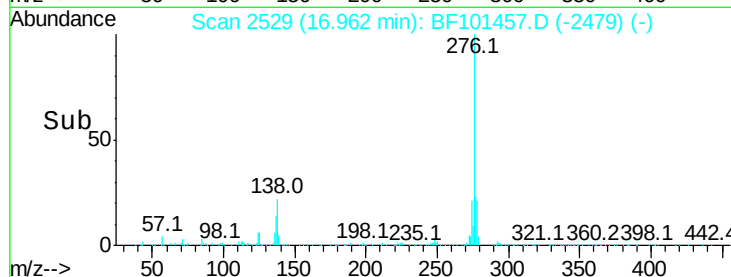
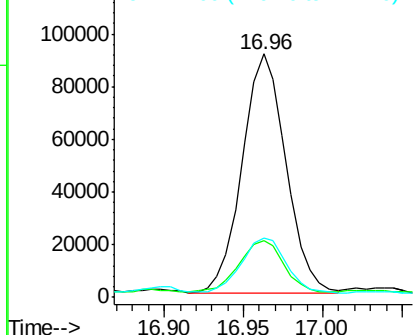


Abundance

Ion 276.00 (275.70 to 276.70): E

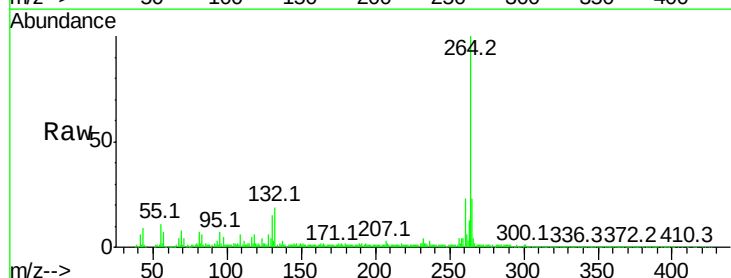
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2276  
 Delta R.T. 0.01 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 22.6  | 17.5  | 26.3  |

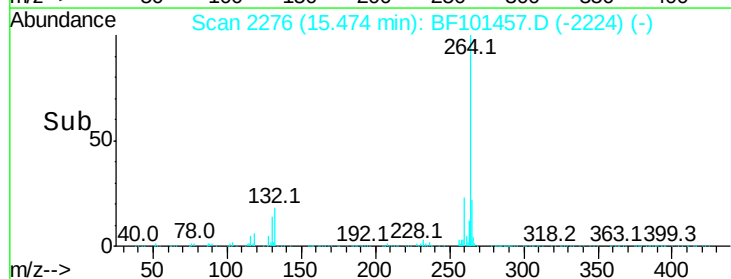
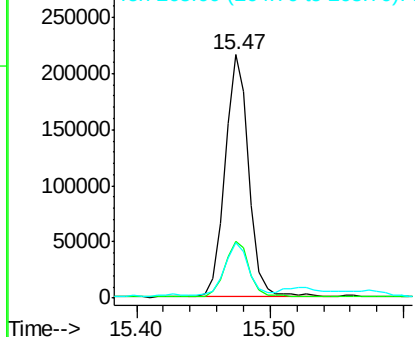


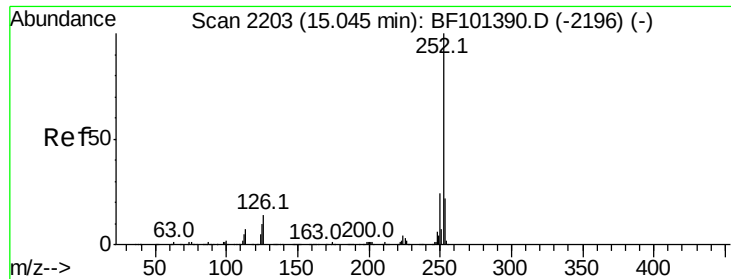
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

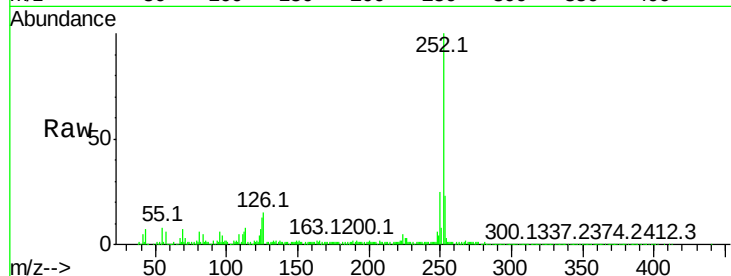




#87  
Benzo(b)fluoranthene  
Concen: 33.414 ng  
RT: 15.04 min Scan# 2203  
Delta R.T. 0.00 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.0  | 25.6  |
| 125     | 12.9  | 9.0   | 13.6  |

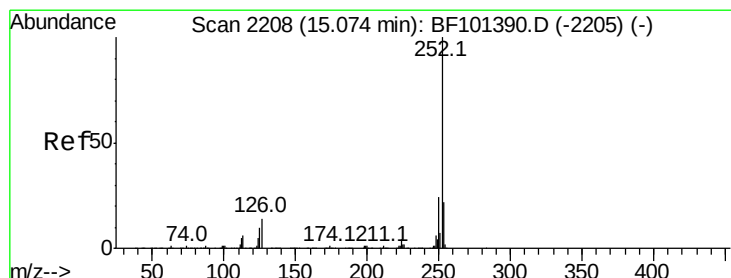
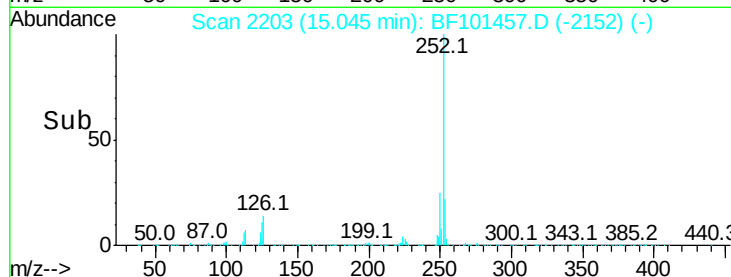
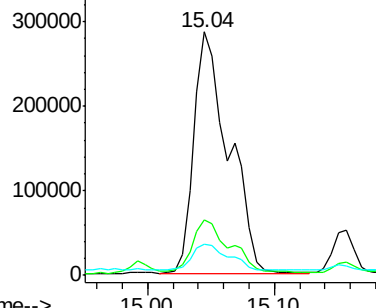


Abundance

Ion 252.00 (251.70 to 252.70): E

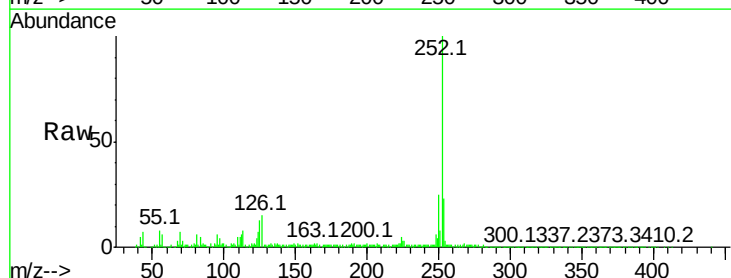
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88  
Benzo(k)fluoranthene  
Concen: 34.367 ng  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.03 min  
Lab File: BF101457.D  
Acq: 15 Dec 2017 21:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.9  | 26.9  |
| 125     | 12.9  | 10.2  | 15.2  |

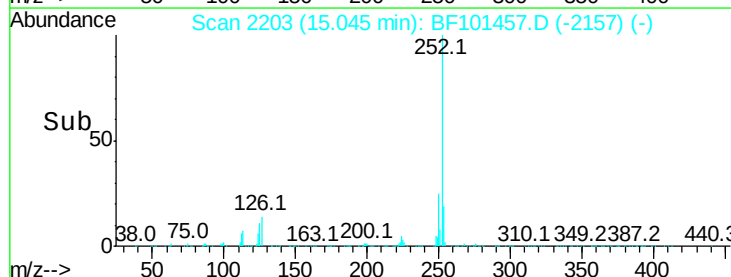
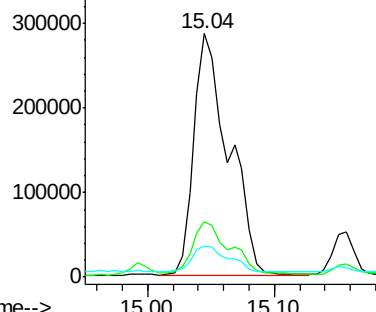


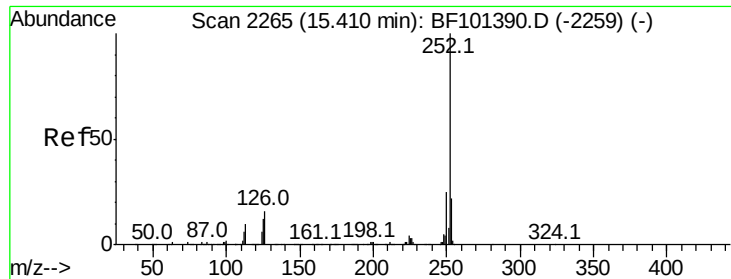
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 20.271 ng

RT: 15.42 min Scan# 2266

Delta R.T. 0.01 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

Instrument :

BNA\_F

ClientSampleId :

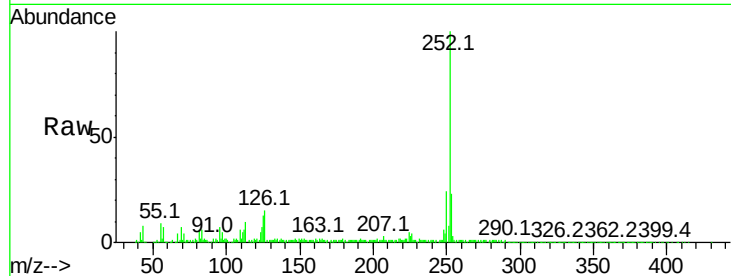
Tot Ion:252 Resp: 307185

Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

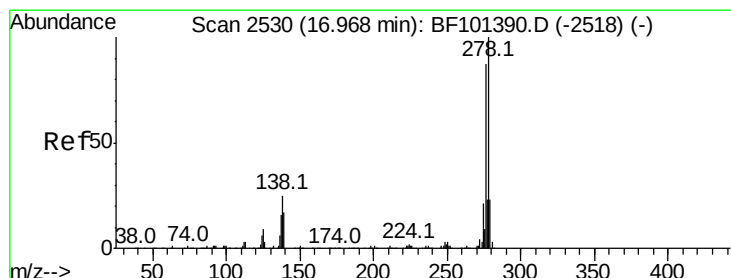
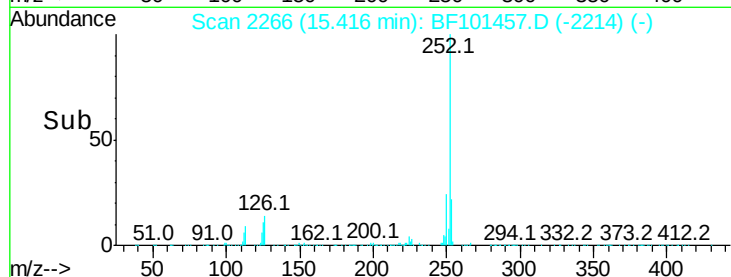
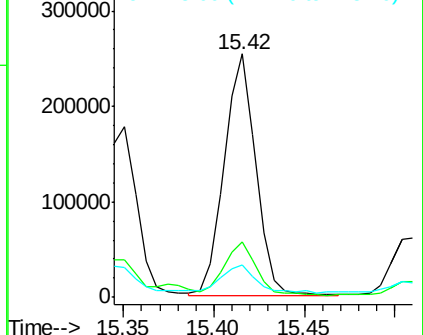
125 13.2 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.637 ng

RT: 16.96 min Scan# 2528

Delta R.T. -0.01 min

Lab File: BF101457.D

Acq: 15 Dec 2017 21:42

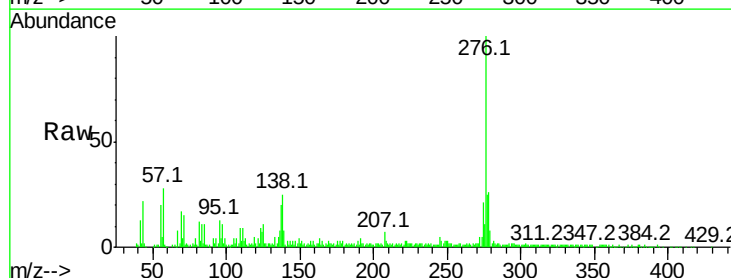
Tgt Ion:278 Resp: 47323

Ion Ratio Lower Upper

278 100

139 29.8 15.9 23.9#

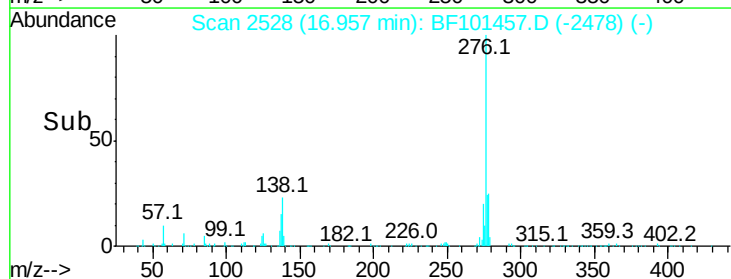
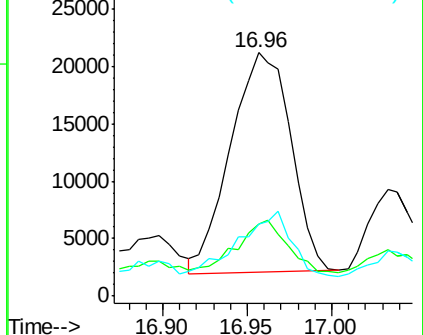
279 29.7 19.0 28.4#

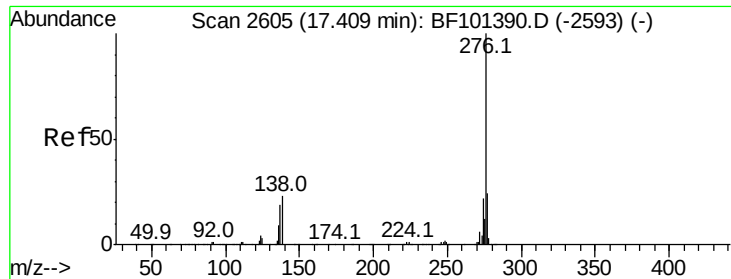


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

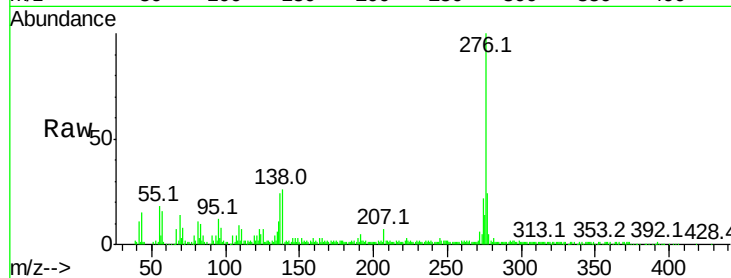




#91  
 Benzo(a,h,i)perylene  
 Concen: 13.658 ng  
 RT: 17.42 min Scan# 2606  
 Delta R.T. 0.01 min  
 Lab File: BF101457.D  
 Acq: 15 Dec 2017 21:42

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.1  | 17.9  | 26.9  |
| 138     | 25.7  | 21.8  | 32.8  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

