

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110218\  
 Data File : BF110433.D  
 Acq On : 3 Nov 2018 1:04  
 Operator : JU/SJ  
 Sample : J5769-13 2X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 03 04:17:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 01 16:06:12 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.96  | 152  | 85380    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.24  | 136  | 343781   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 10.00 | 164  | 146404   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.49 | 188  | 234526   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.13 | 240  | 150107   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.66 | 264  | 115928   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |       |    |      |
|--------------------------|-------|-----|--------|-------|----|------|
| 5) 2-Fluorophenol        | 5.57  | 112 | 277141 | 52.86 | ng | 0.00 |
| 7) Phenol-d6             | 6.57  | 99  | 353807 | 52.76 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.52  | 82  | 204612 | 35.30 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.79 | 330 | 66448  | 45.82 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 9.31  | 172 | 407723 | 43.73 | ng | 0.00 |
| 79) Terphenyl-d14        | 13.07 | 244 | 287175 | 39.79 | ng | 0.00 |

## Target Compounds

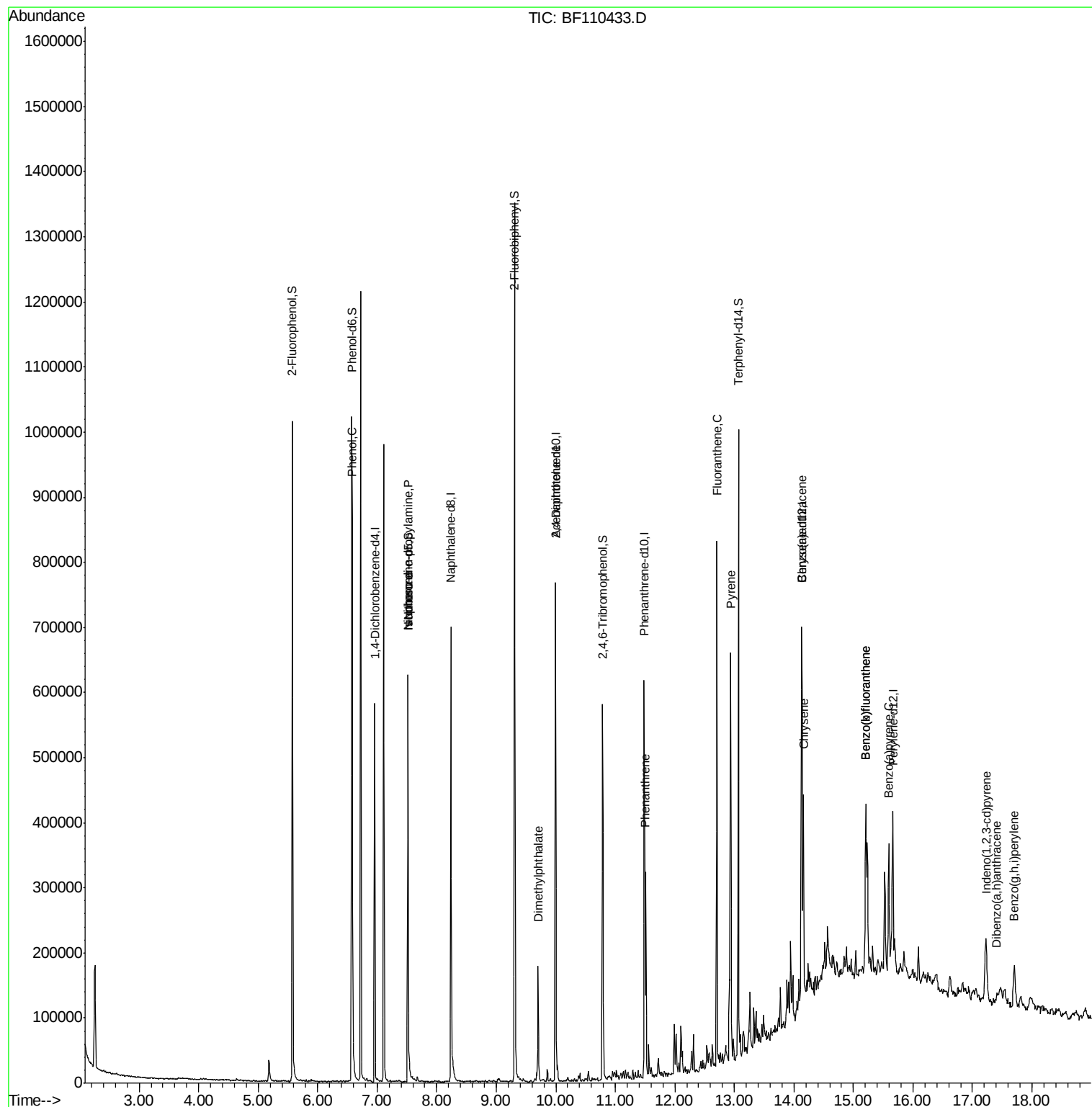
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 6.51  | 77  | 502    | Below Cal | # | 72     |
| 10) Phenol                     | 6.59  | 94  | 22997  | 3.208 ng  |   | 80     |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70  | 27489  | 6.389 ng  | # | 78     |
| 25) Isophorone                 | 7.52  | 82  | 204608 | 20.709 ng | # | 67     |
| 50) Dimethylphthalate          | 9.70  | 163 | 84361  | 7.806 ng  |   | 99     |
| 57) 2,4-Dinitrotoluene         | 10.00 | 165 | 18507  | 6.259 ng  | # | 20     |
| 71) Phenanthrene               | 11.51 | 178 | 118437 | 9.651 ng  |   | 98     |
| 75) Fluoranthene               | 12.70 | 202 | 309121 | 24.821 ng |   | 99     |
| 77) Benzidine                  | 13.07 | 184 | 4250   | Below Cal | # | 91     |
| 78) Pyrene                     | 12.94 | 202 | 261521 | 24.302 ng |   | 99     |
| 81) Benzo(a)anthracene         | 14.13 | 228 | 110770 | 12.444 ng |   | 97     |
| 83) Chrysene                   | 14.16 | 228 | 128978 | 15.255 ng |   | 98     |
| 86) Indeno(1,2,3-cd)pyrene     | 17.22 | 276 | 58118  | 8.286 ng  |   | 100    |
| 88) Benzo(b)fluoranthene       | 15.21 | 252 | 202861 | 30.303 ng |   | 98     |
| 89) Benzo(k)fluoranthene       | 15.21 | 252 | 202861 | 30.824 ng | # | 97     |
| 90) Benzo(a)pyrene             | 15.59 | 252 | 90373  | 14.671 ng |   | 98     |
| 91) Dibenzo(a,h)anthracene     | 17.41 | 278 | 10690  | 2.011 ng  |   | 96     |
| 92) Benzo(g,h,i)perylene       | 17.70 | 276 | 62538  | 11.940 ng |   | 96     |

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

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Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Nov 03 04:17:49 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 01 16:06:12 2018  
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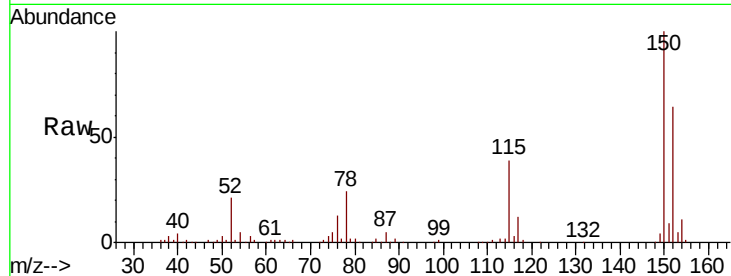


#1

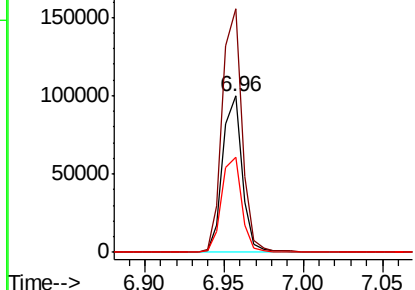
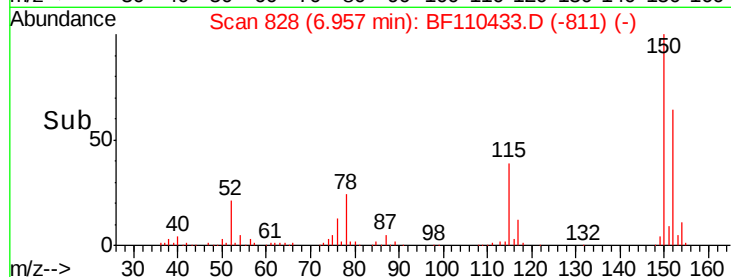
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 828  
Delta R.T. 0.00 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 85380  
Ion Ratio Lower Upper  
152 100  
150 155.6 122.7 184.1  
115 60.5 49.1 73.7



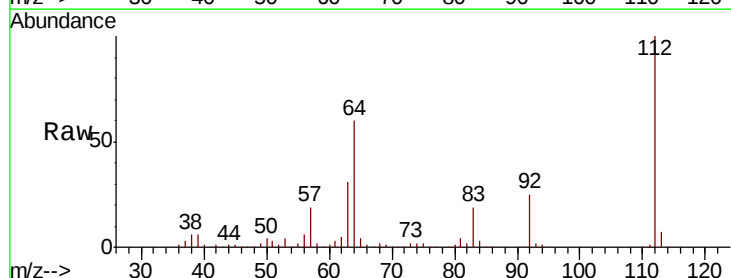
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



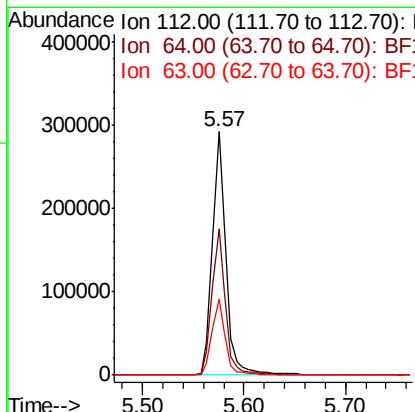
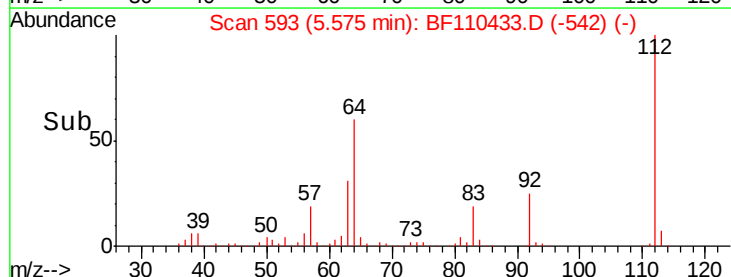
#5

2-Fluorophenol  
Concen: 52.859 ng  
RT: 5.57 min Scan# 593  
Delta R.T. 0.00 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Tgt Ion:112 Resp: 277141  
Ion Ratio Lower Upper  
112 100  
64 60.0 44.1 66.1  
63 31.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 52.758 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

Instrument :

BNA\_F

ClientSampled :

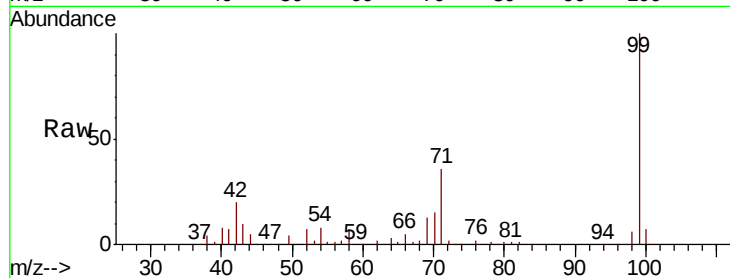
Tot Ion: 99 Resp: 353807

Ion Ratio Lower Upper

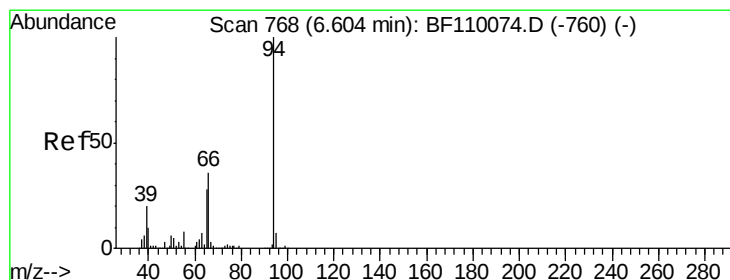
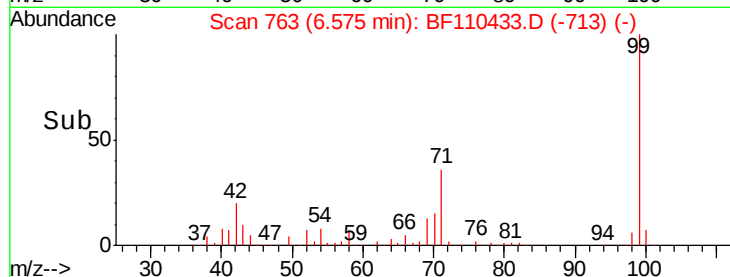
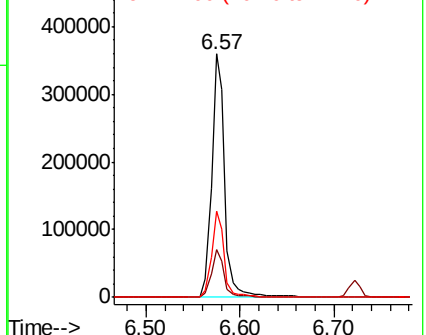
99 100

42 19.7 15.8 23.6

71 35.6 28.0 42.0



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: 3.208 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

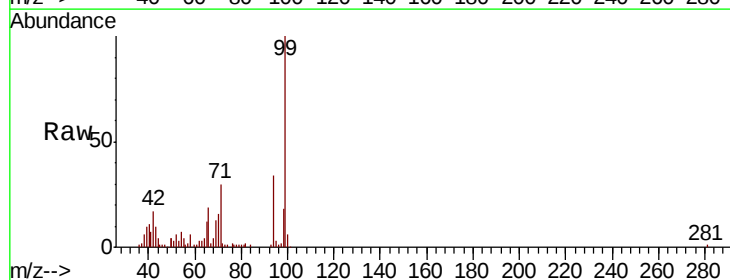
Tgt Ion: 94 Resp: 22997

Ion Ratio Lower Upper

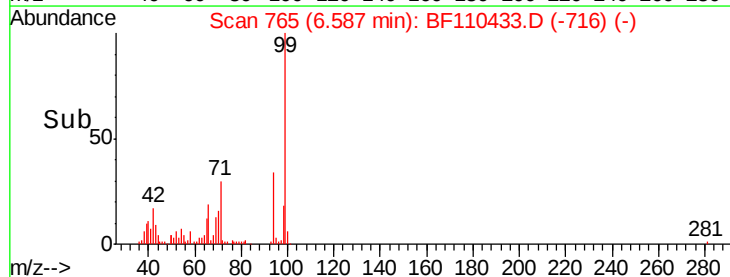
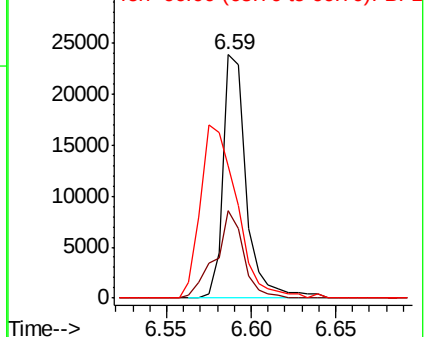
94 100

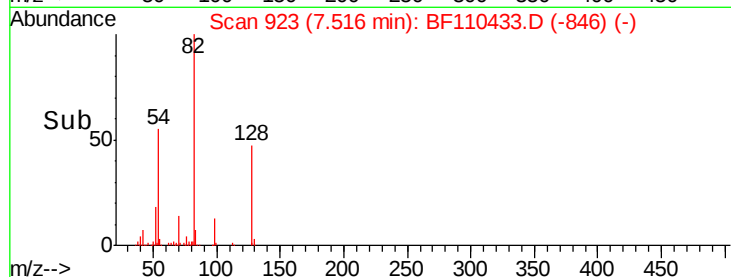
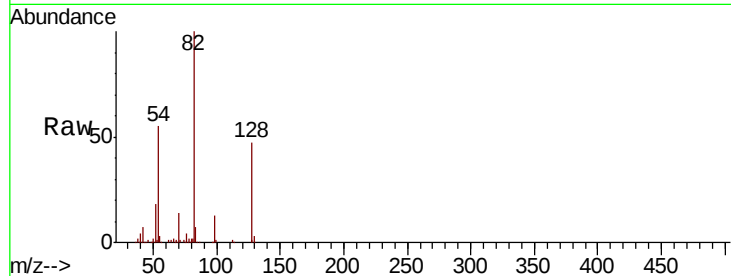
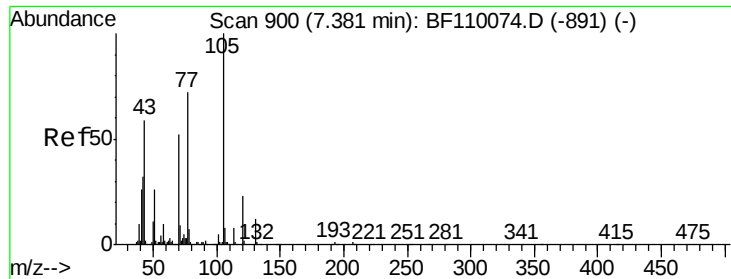
65 35.7 25.3 65.3

66 54.5 54.5 94.5



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

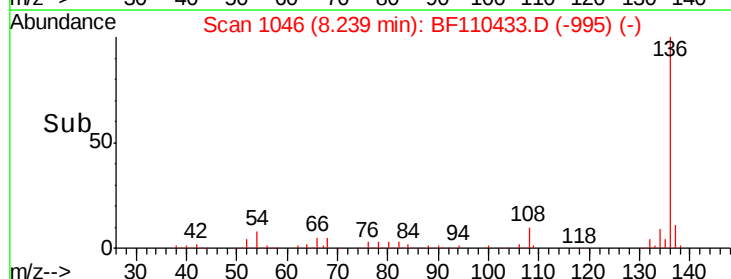
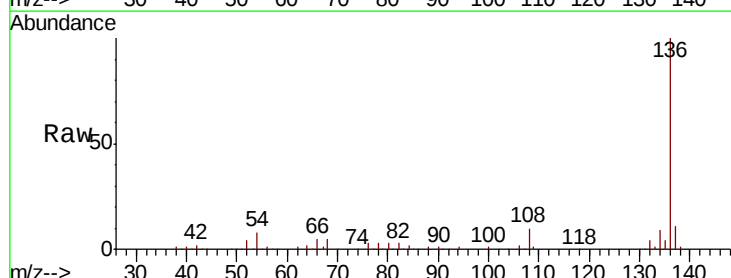
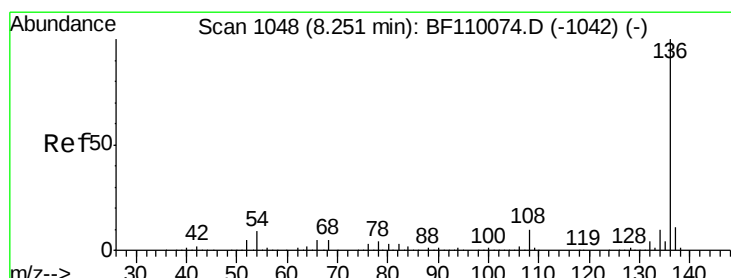
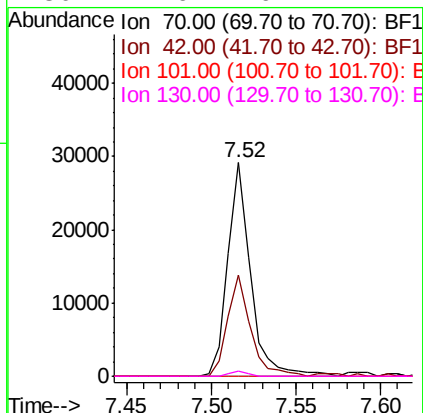




#19  
n-Nitroso-di-n-propylamine  
Concen: 6.389 ng  
RT: 7.52 min Scan# 923  
Delta R.T. 0.15 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

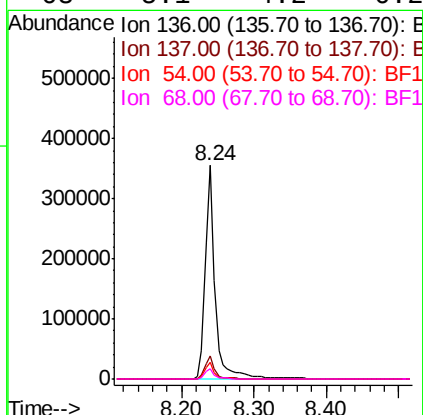
Instrument :  
BNA\_F  
ClientSampleId :

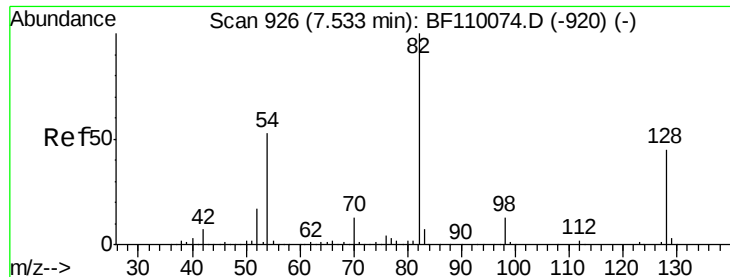
Tot Ion: 70 Resp: 27489  
Ion Ratio Lower Upper  
70 100  
42 47.3 47.4 71.2#  
101 0.0 7.3 10.9#  
130 2.6 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1046  
Delta R.T. 0.00 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Tgt Ion: 136 Resp: 343781  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.8 13.2  
54 7.6 5.4 8.2  
68 5.1 4.2 6.2

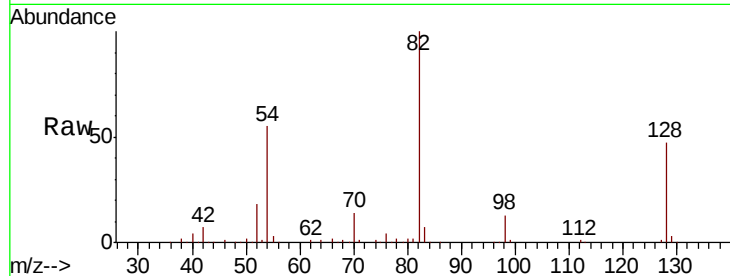




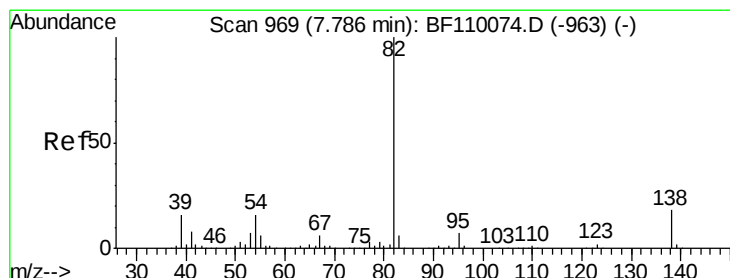
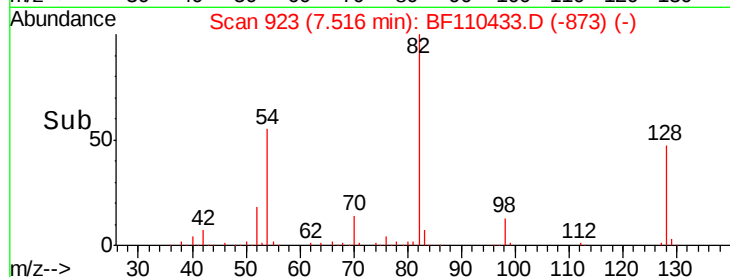
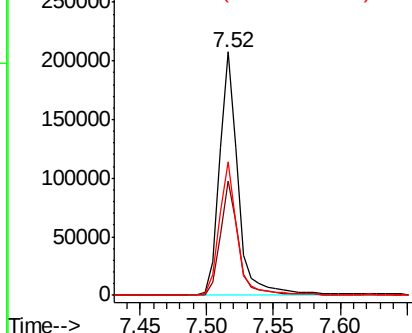
#23  
Nitrobenzene-d5  
Concen: 35.302 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion: 82 Resp: 204612  
Ion Ratio Lower Upper  
82 100  
128 46.7 34.2 51.2  
54 54.6 38.6 58.0

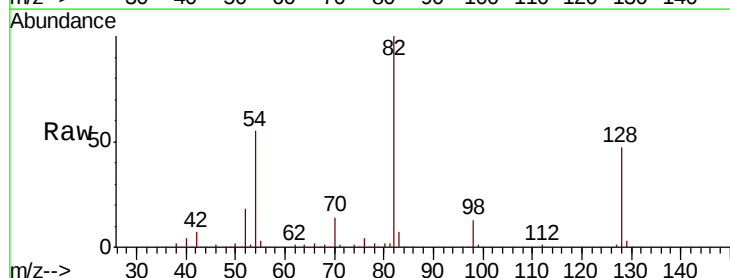


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

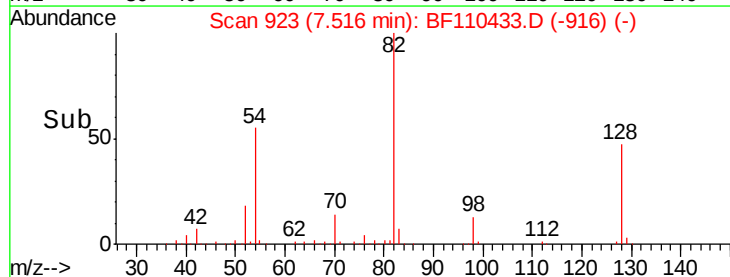
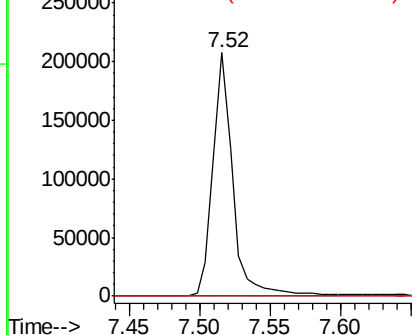


#25  
Isophorone  
Concen: 20.709 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.26 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Tgt Ion: 82 Resp: 204608  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.2 19.8#



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1345

Delta R.T. 0.00 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

Instrument :

BNA\_F

ClientSampleId :

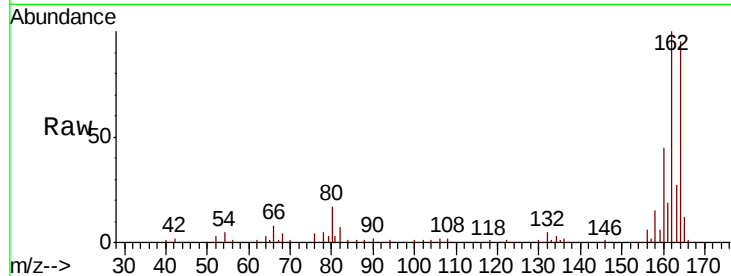
Tot Ion:164 Resp: 146404

Ion Ratio Lower Upper

164 100

162 105.1 83.0 124.6

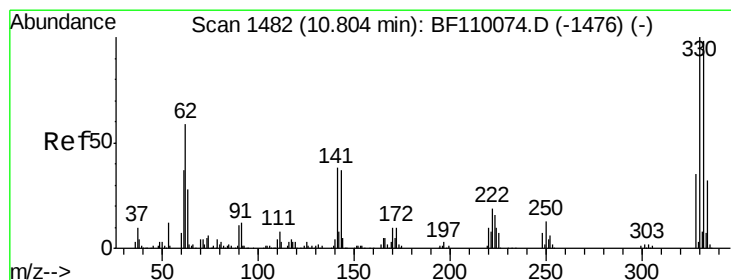
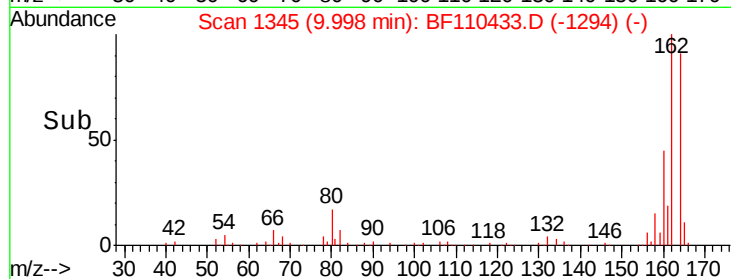
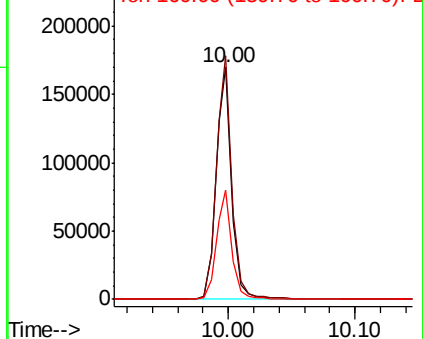
160 47.0 37.0 55.6



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



#42

2,4,6-Tribromophenol

Concen: 45.819 ng

RT: 10.79 min Scan# 1479

Delta R.T. -0.01 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

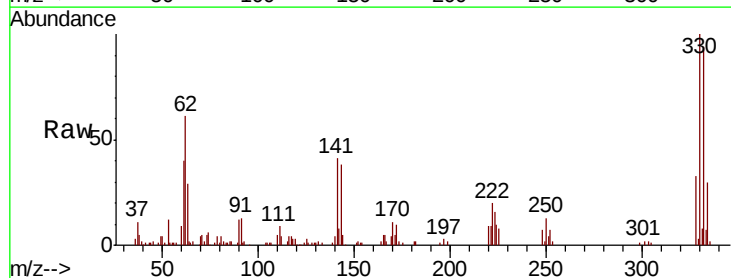
Tgt Ion:330 Resp: 66448

Ion Ratio Lower Upper

330 100

332 95.4 77.1 115.7

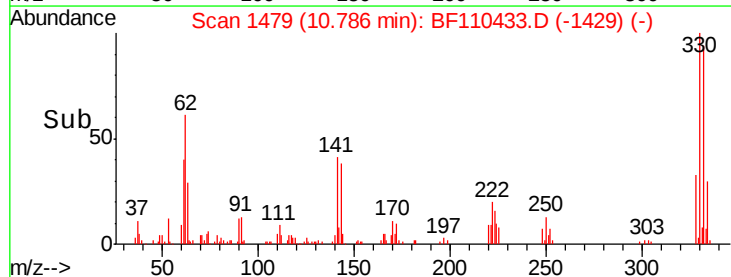
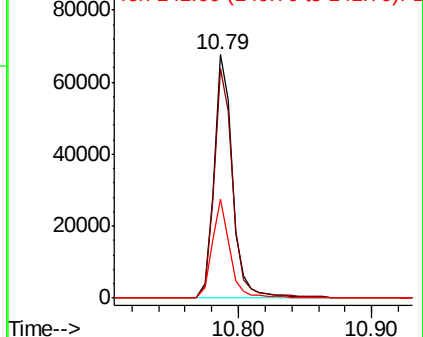
141 38.5 27.0 40.4



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

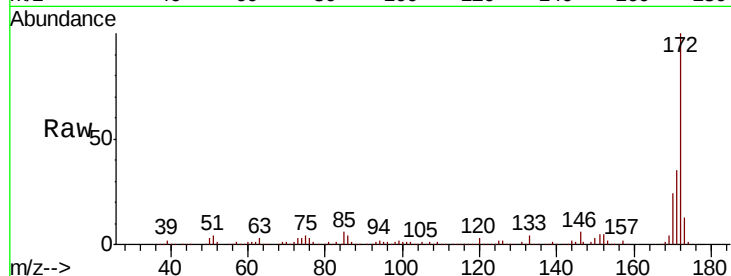




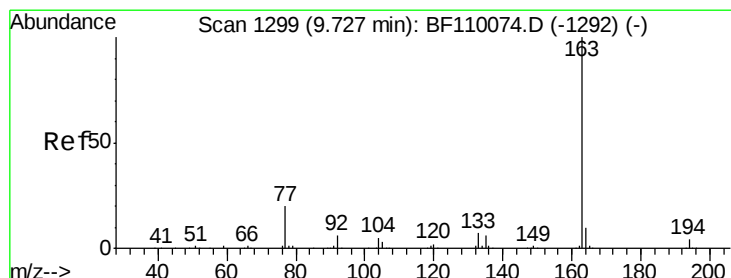
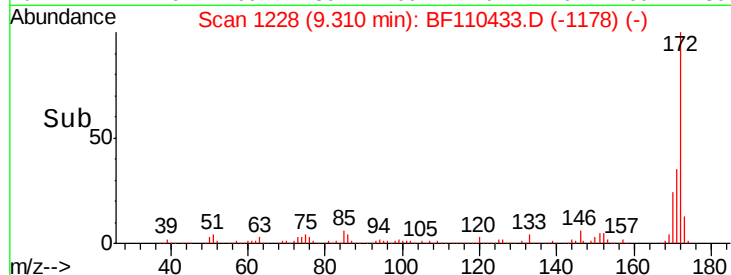
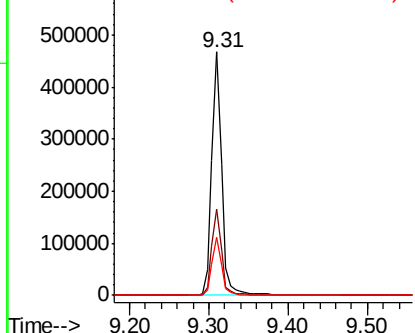
#45  
 2-Fluorobiphenyl  
 Concen: 43.730 ng  
 RT: 9.31 min Scan# 1228  
 Delta R.T. -0.01 min  
 Lab File: BF110433.D  
 Acq: 3 Nov 2018 1:04

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 407723  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 28.6 43.0  
 170 23.7 19.7 29.5

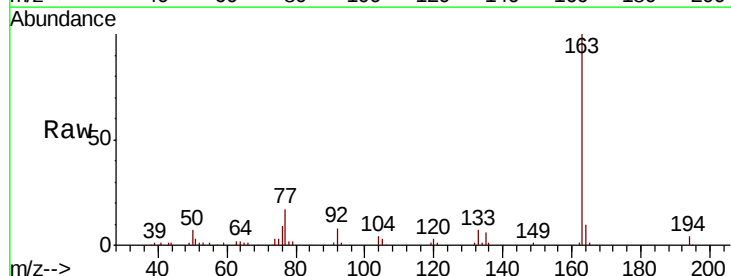


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

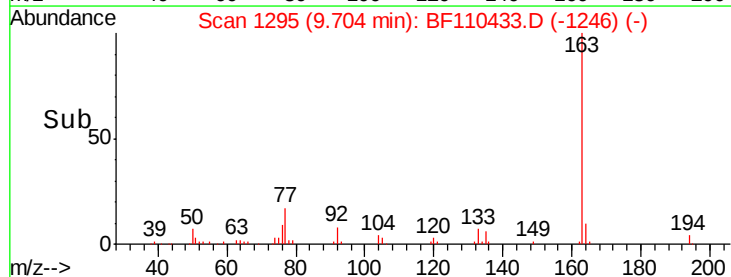
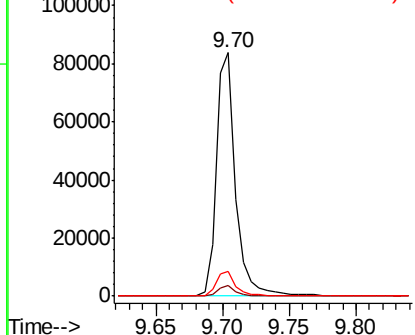


#50  
 Dimethylphthalate  
 Concen: 7.806 ng  
 RT: 9.70 min Scan# 1295  
 Delta R.T. -0.01 min  
 Lab File: BF110433.D  
 Acq: 3 Nov 2018 1:04

Tgt Ion:163 Resp: 84361  
 Ion Ratio Lower Upper  
 163 100  
 194 4.2 3.2 4.8  
 164 9.9 8.1 12.1



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

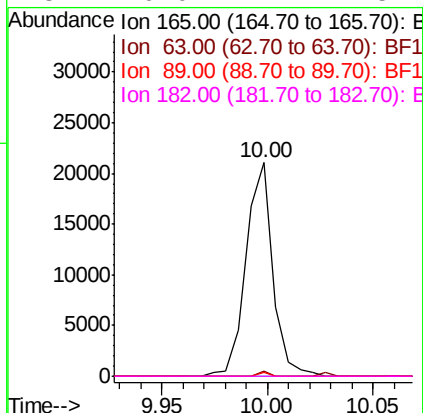
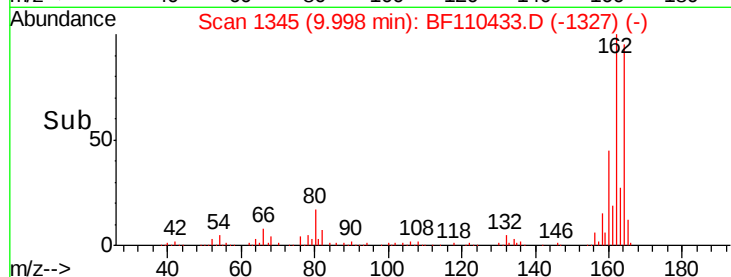
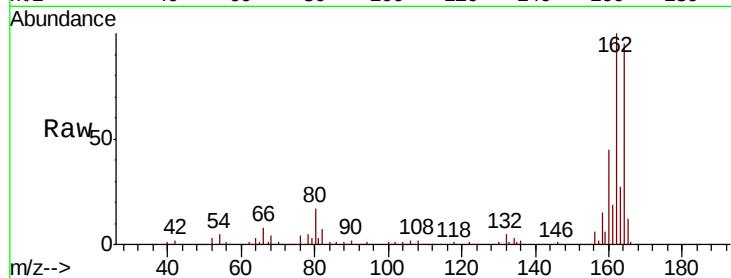




#57  
2,4-Dinitrotoluene  
Concen: 6.259 ng  
RT: 10.00 min Scan# 1345  
Delta R.T. -0.19 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

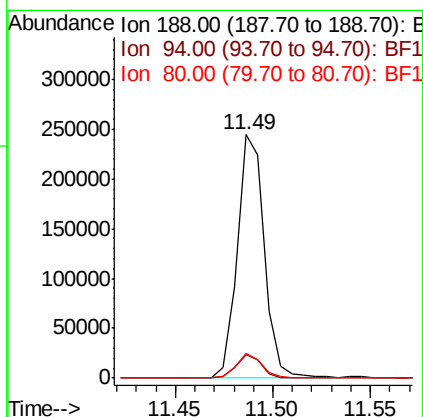
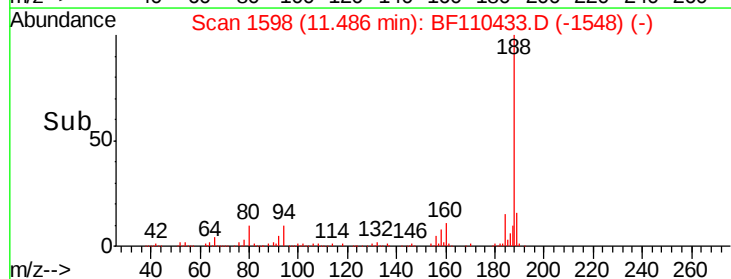
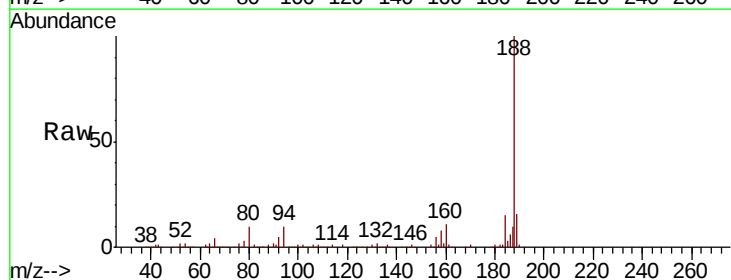
Instrument :  
BNA\_F  
ClientSampleId :

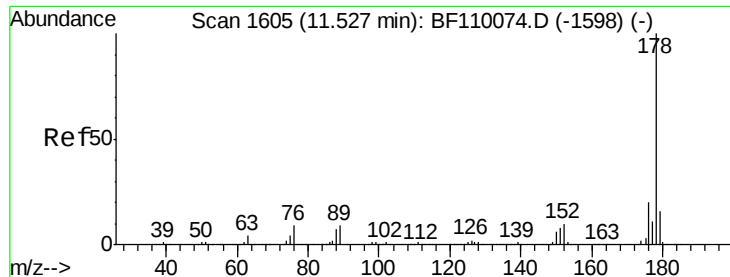
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.7   | 44.8  | 67.2# |
| 89      | 1.7   | 62.2  | 93.4# |
| 182     | 0.0   | 2.1   | 3.1#  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 7.2   | 10.8  |
| 80      | 10.1  | 7.9   | 11.9  |

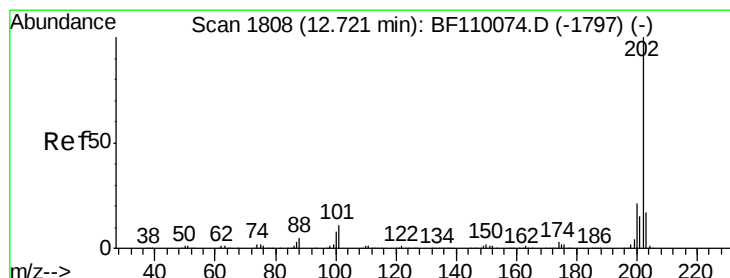
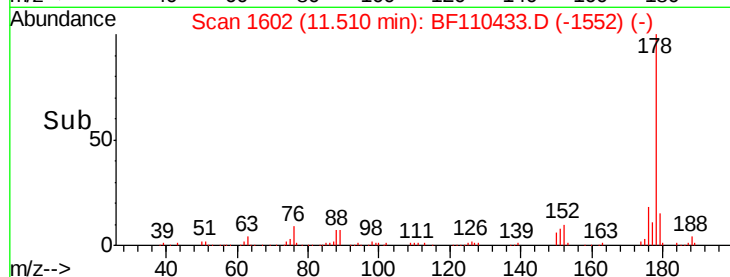
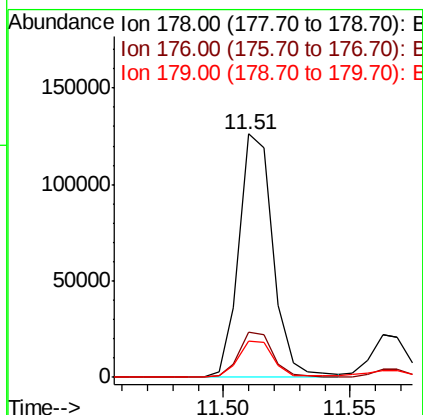
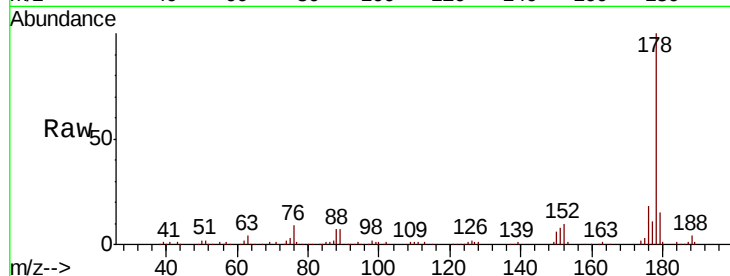




#71  
Phenanthrene  
Concen: 9.651 ng  
RT: 11.51 min Scan# 1602  
Delta R.T. -0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

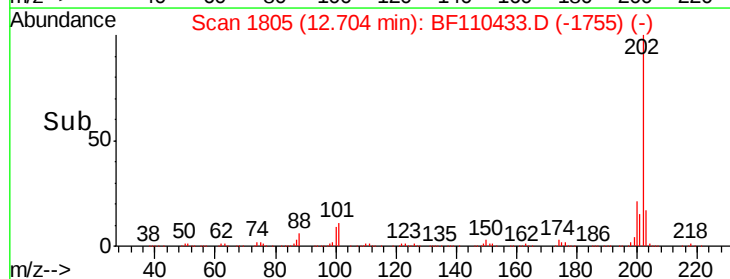
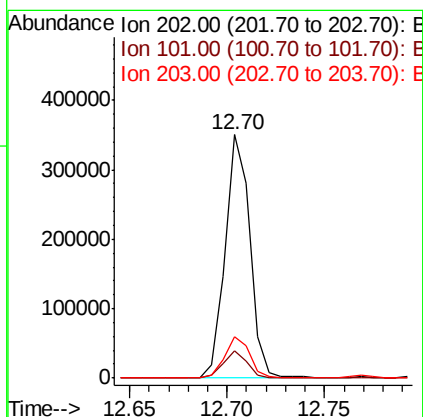
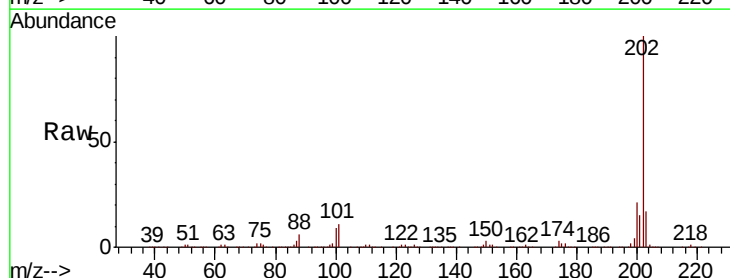
Instrument :  
BNA\_F  
ClientSampleId :

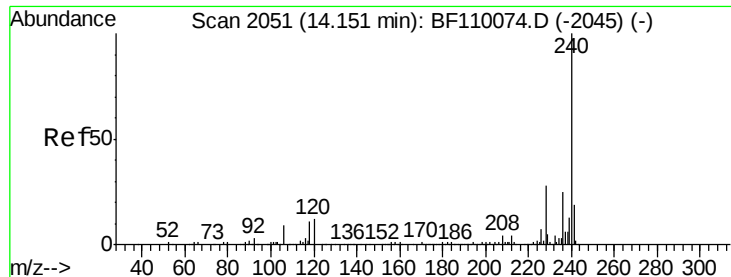
Tot Ion:178 Resp: 118437  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.5 23.3  
179 14.9 12.5 18.7



#75  
Fluoranthene  
Concen: 24.821 ng  
RT: 12.70 min Scan# 1805  
Delta R.T. -0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Tgt Ion:202 Resp: 309121  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 31.4  
203 17.2 0.0 37.7

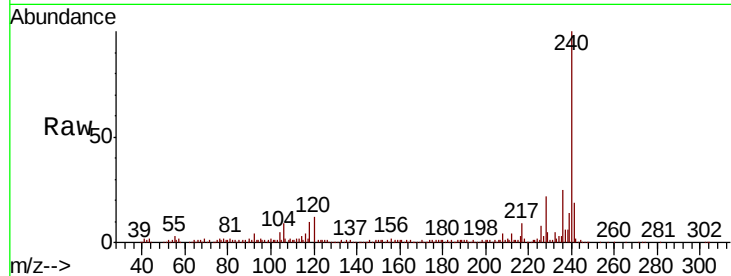




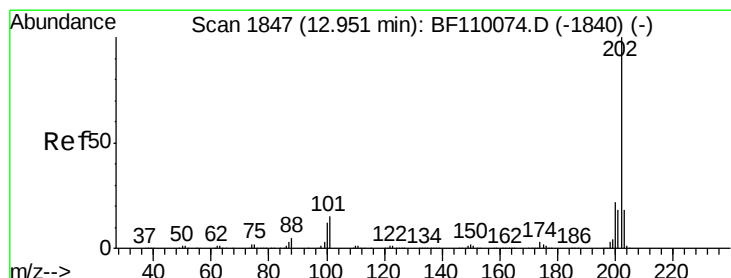
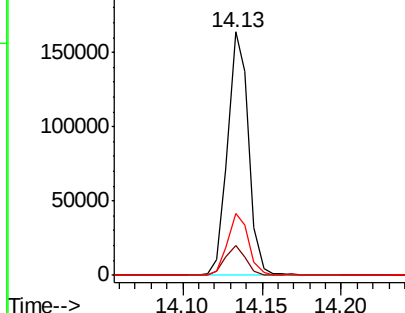
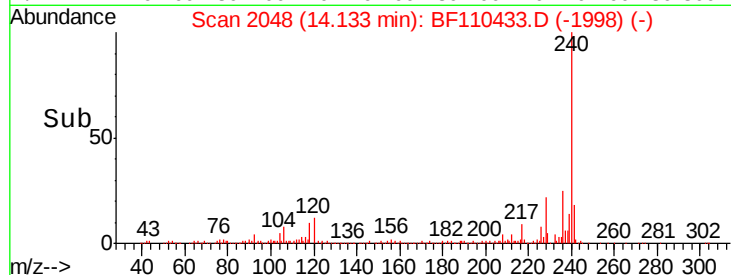
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.13 min Scan# 2048  
Delta R.T. -0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 12.3  | 8.3   | 12.5  |
| 236     | 25.2  | 21.2  | 31.8  |

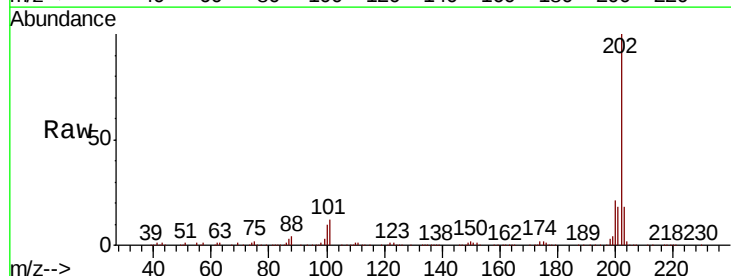


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

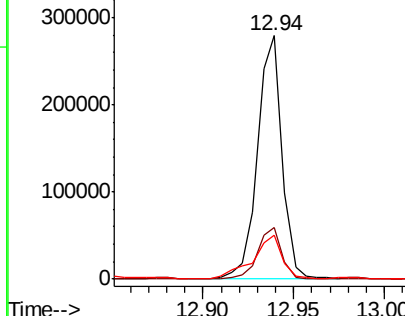
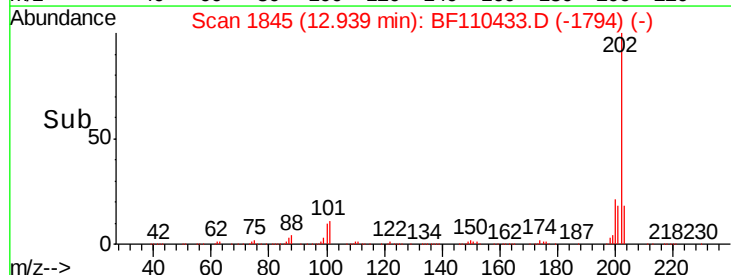


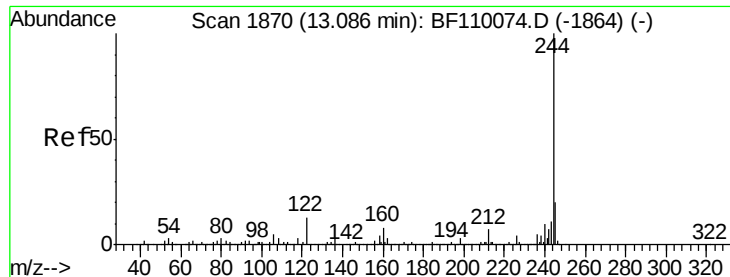
#78  
Pyrene  
Concen: 24.302 ng  
RT: 12.94 min Scan# 1845  
Delta R.T. 0.00 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.1  | 17.8  | 26.6  |
| 203     | 17.9  | 14.2  | 21.4  |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 39.788 ng

RT: 13.07 min Scan# 1867

Delta R.T. -0.01 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

Instrument :

BNA\_F

ClientSampleId :

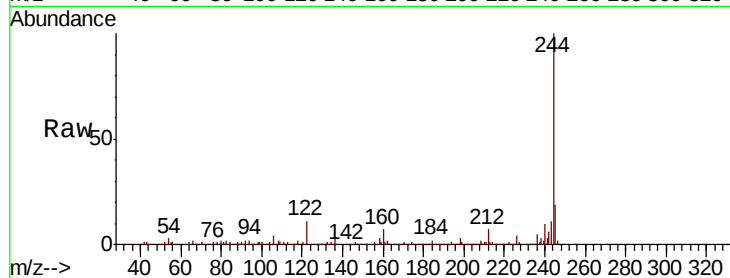
Tot Ion:244 Resp: 287175

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

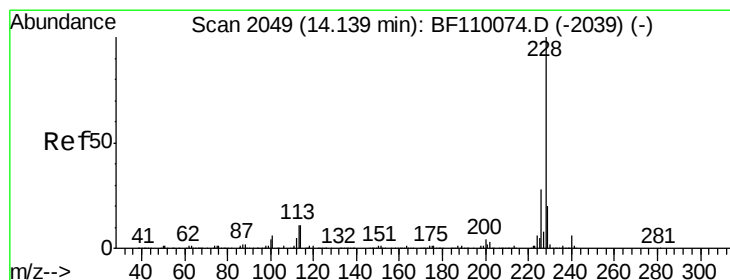
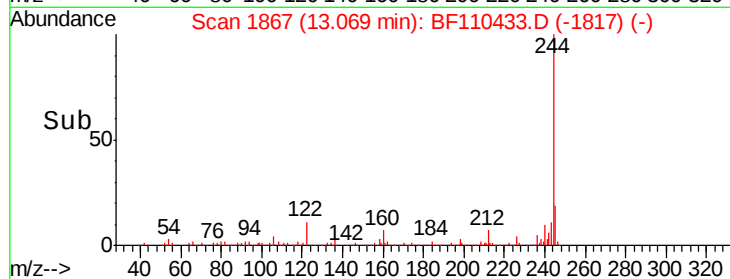
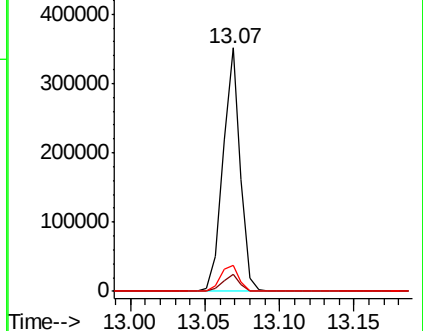
122 10.9 8.7 13.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 12.444 ng

RT: 14.13 min Scan# 2047

Delta R.T. 0.00 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

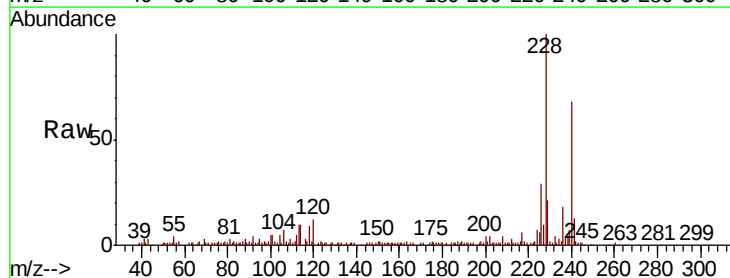
Tgt Ion:228 Resp: 110770

Ion Ratio Lower Upper

228 100

226 29.1 22.1 33.1

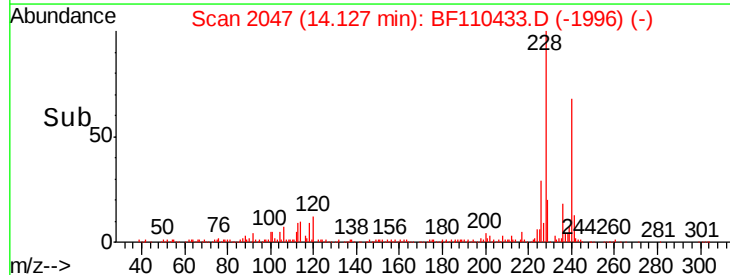
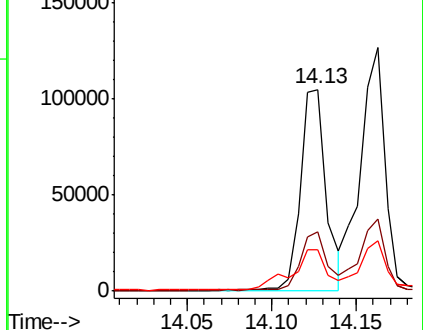
229 20.7 15.6 23.4

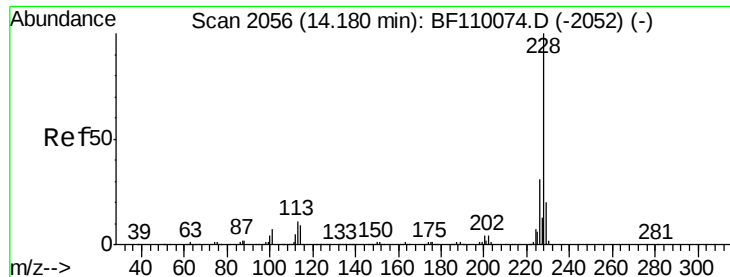


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 15.255 ng

RT: 14.16 min Scan# 2053

Delta R.T. -0.01 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

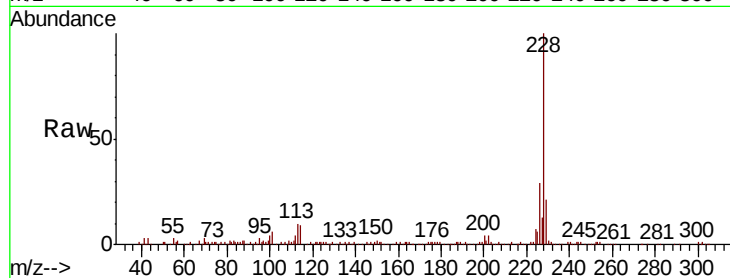
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:228 Resp: 128978

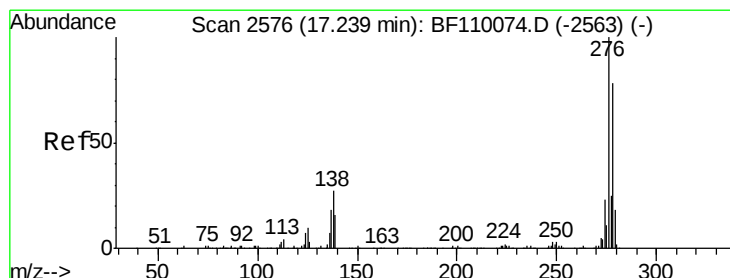
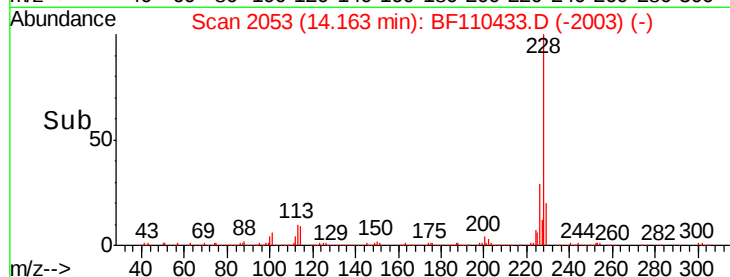
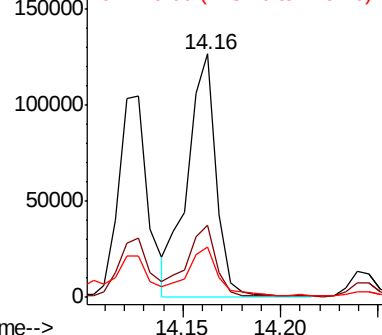
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.5  | 24.7  | 37.1  |
| 229 | 20.6  | 15.9  | 23.9  |



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Indeno(1,2,3-cd)pyrene

Concen: 8.286 ng

RT: 17.22 min Scan# 2573

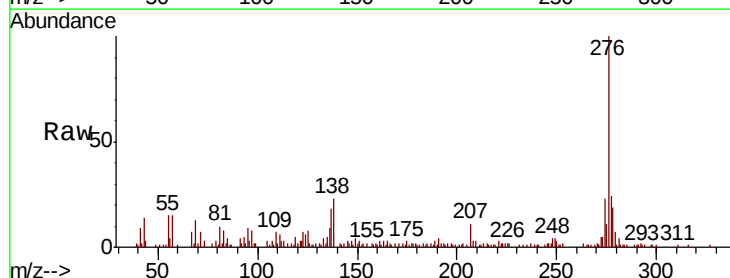
Delta R.T. -0.01 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

Tgt Ion:276 Resp: 58118

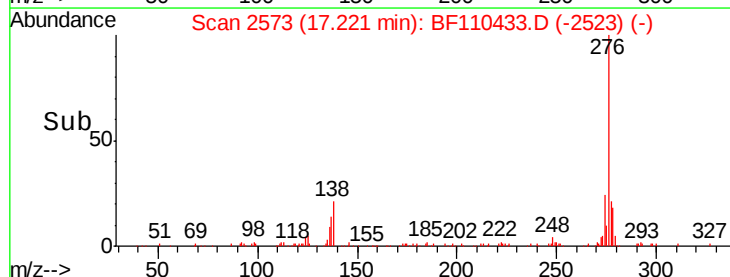
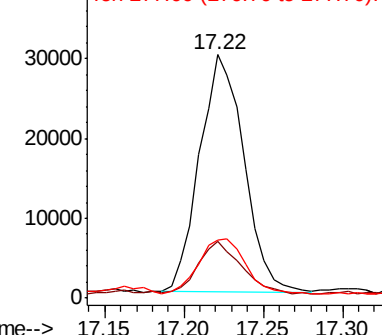
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 23.5  | 18.5  | 27.7  |
| 277 | 24.9  | 20.0  | 30.0  |

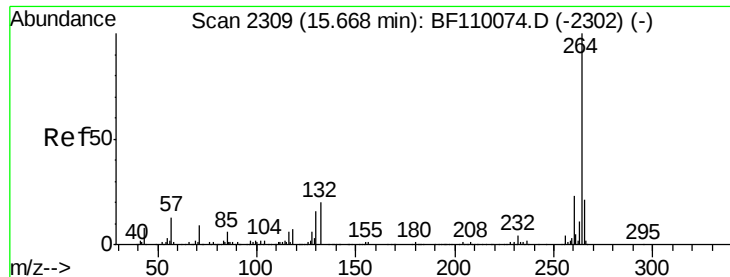


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



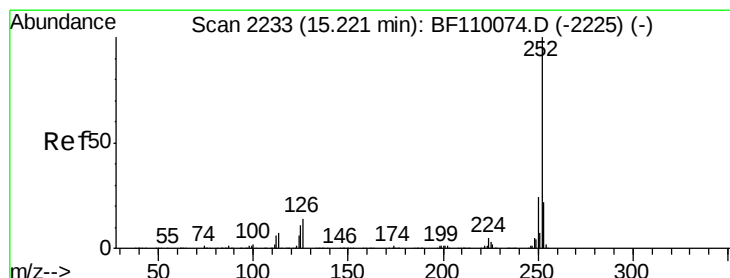
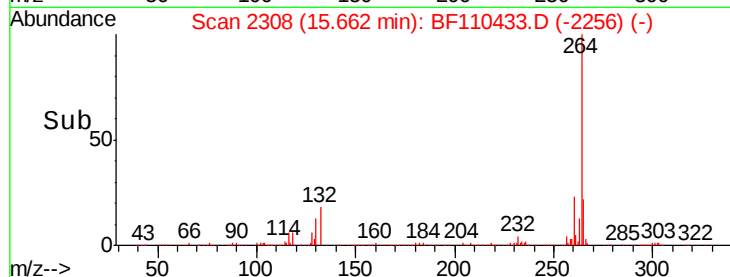
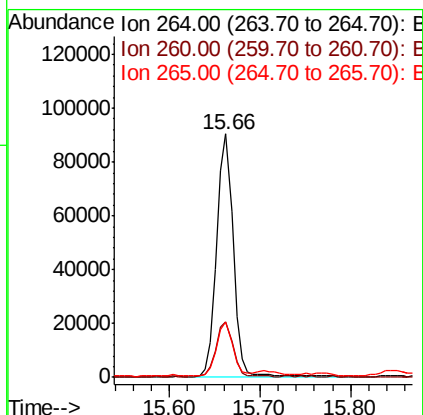
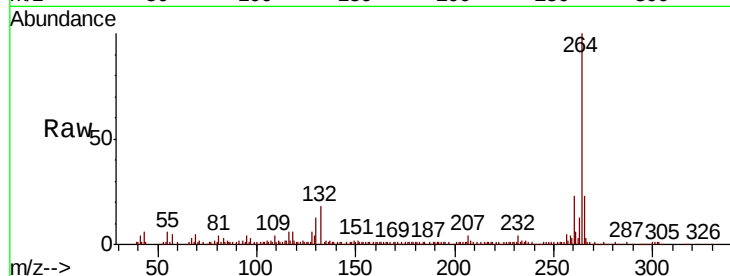


#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.66 min Scan# 2308  
Delta R.T. 0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 115928  

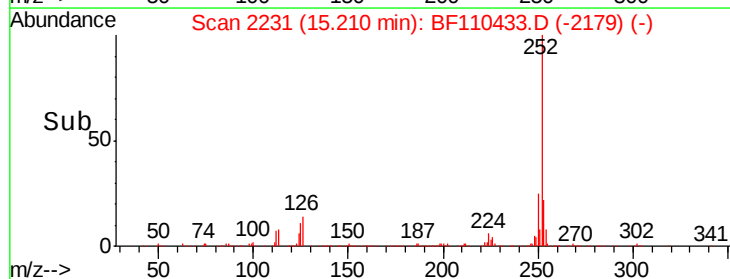
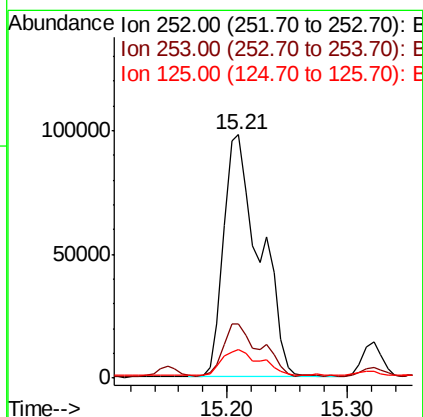
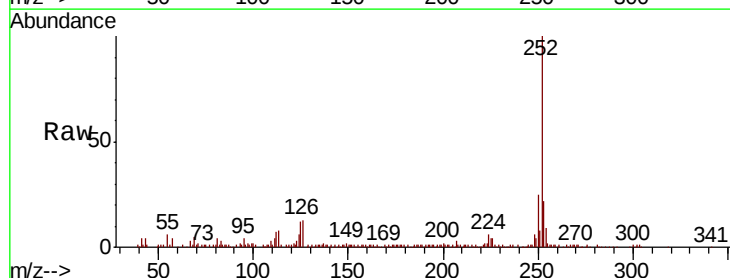
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 18.7  | 28.1  |
| 265 | 22.9  | 16.7  | 25.1  |

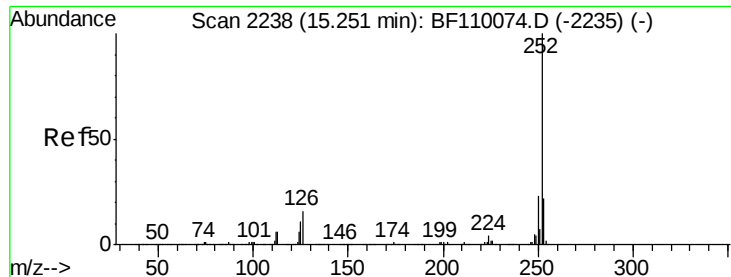


#88  
Benzo(b)fluoranthene  
Concen: 30.303 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. 0.01 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Tgt Ion:252 Resp: 202861  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.4  | 17.2  | 25.8  |
| 125 | 11.7  | 8.2   | 12.4  |

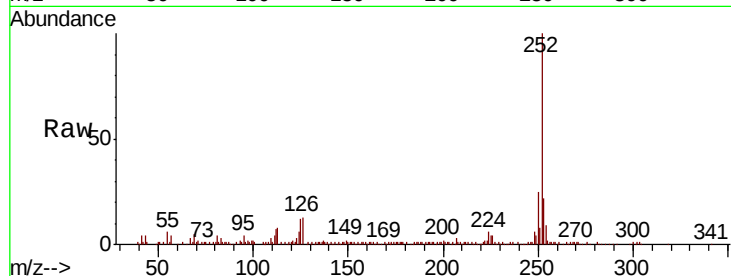




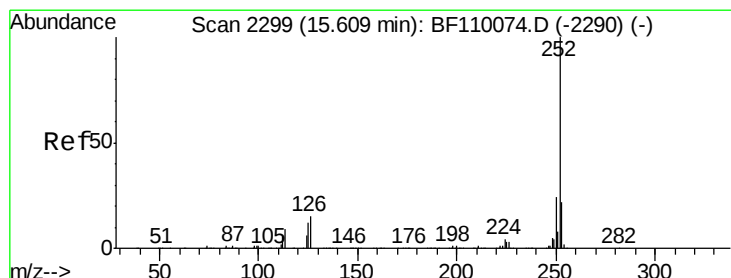
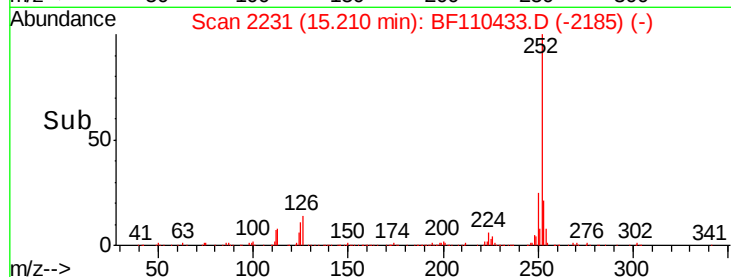
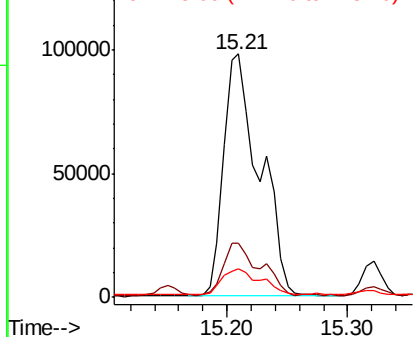
#89  
Benzo(k)fluoranthene  
Concen: 30.824 ng  
RT: 15.21 min Scan# 2231  
Delta R.T. -0.03 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.4  | 17.2  | 25.8  |
| 125     | 11.7  | 7.4   | 11.0  |

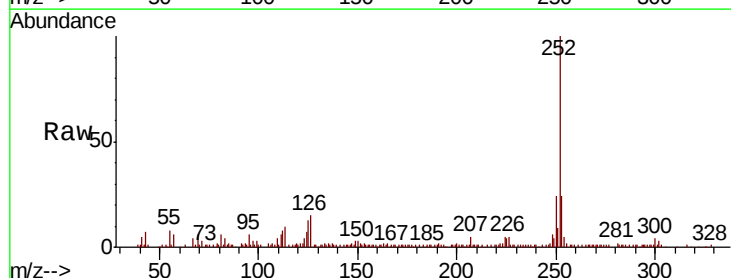


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

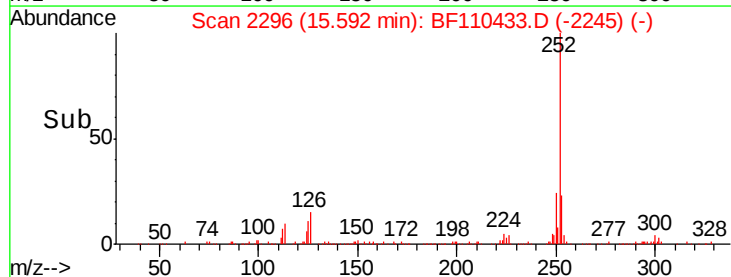
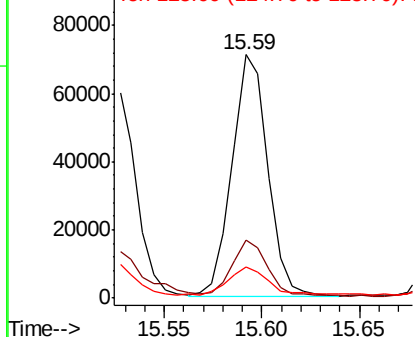


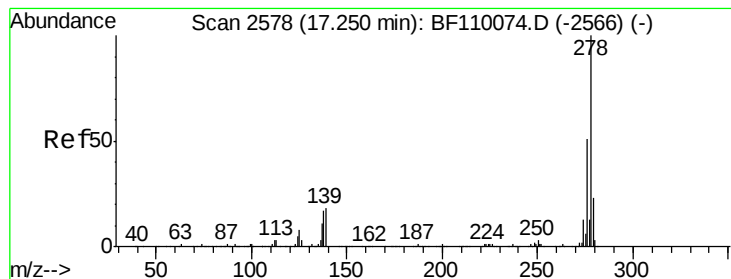
#90  
Benzo(a)pyrene  
Concen: 14.671 ng  
RT: 15.59 min Scan# 2296  
Delta R.T. 0.00 min  
Lab File: BF110433.D  
Acq: 3 Nov 2018 1:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 18.2  | 27.4  |
| 125     | 12.7  | 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





#91

Dibenzo(a,h)anthracene

Concen: 2.011 ng

RT: 17.41 min Scan# 2605

Delta R.T. 0.17 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

Instrument :

BNA\_F

ClientSampleId :

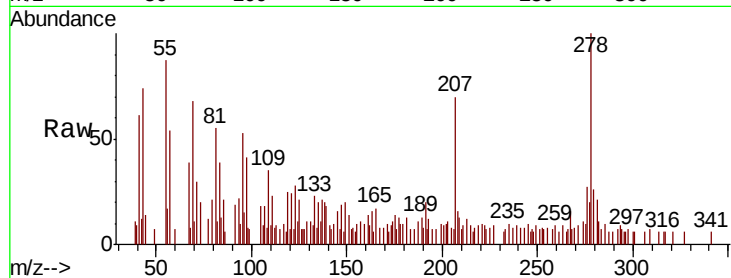
Tot Ion:278 Resp: 10690

Ion Ratio Lower Upper

278 100

139 17.6 12.7 19.1

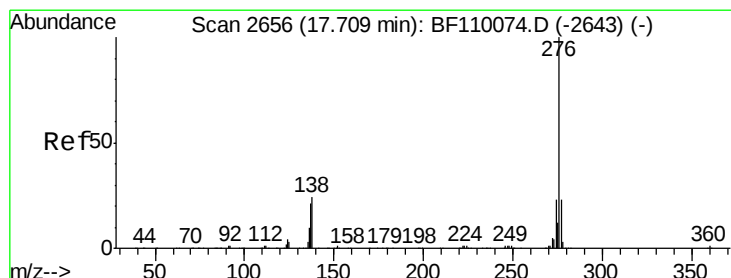
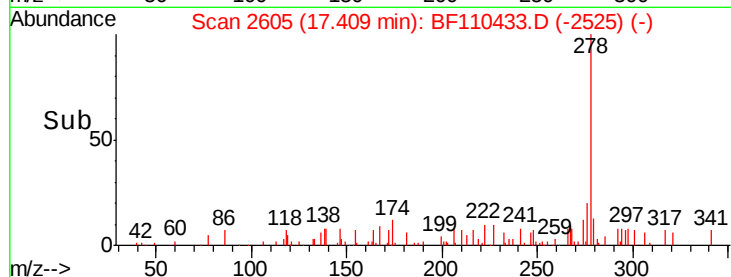
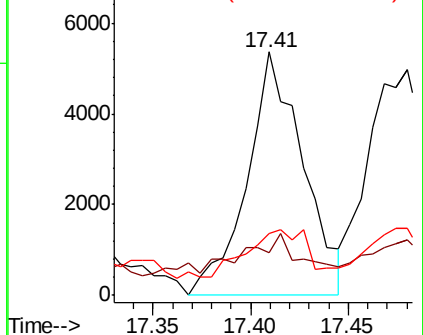
279 25.6 19.0 28.4



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



#92

Benzo(g,h,i)perylene

Concen: 11.940 ng

RT: 17.70 min Scan# 2655

Delta R.T. 0.00 min

Lab File: BF110433.D

Acq: 3 Nov 2018 1:04

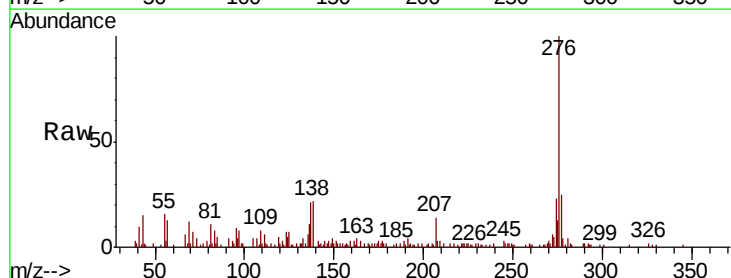
Tgt Ion:276 Resp: 62538

Ion Ratio Lower Upper

276 100

277 25.5 18.8 28.2

138 21.5 16.0 24.0



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

