

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010719\  
 Data File : BF111896.D  
 Acq On : 8 Jan 2019 00:14  
 Operator : JU/SJ  
 Sample : K1012-01 2X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 08 04:07:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 07 14:33:51 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 126257   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 421647   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.93  | 164  | 175760   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.42 | 188  | 316615   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.06 | 240  | 339077   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.54 | 264  | 224184   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.52  | 112  | 311788   | 42.25 | ng    | 0.00     |
| 7) Phenol-d6                | 6.53  | 99   | 338102   | 35.55 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 192578   | 24.41 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.72 | 330  | 97782    | 42.77 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 289254   | 24.00 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.00 | 244  | 385660   | 21.59 | ng    | 0.00     |

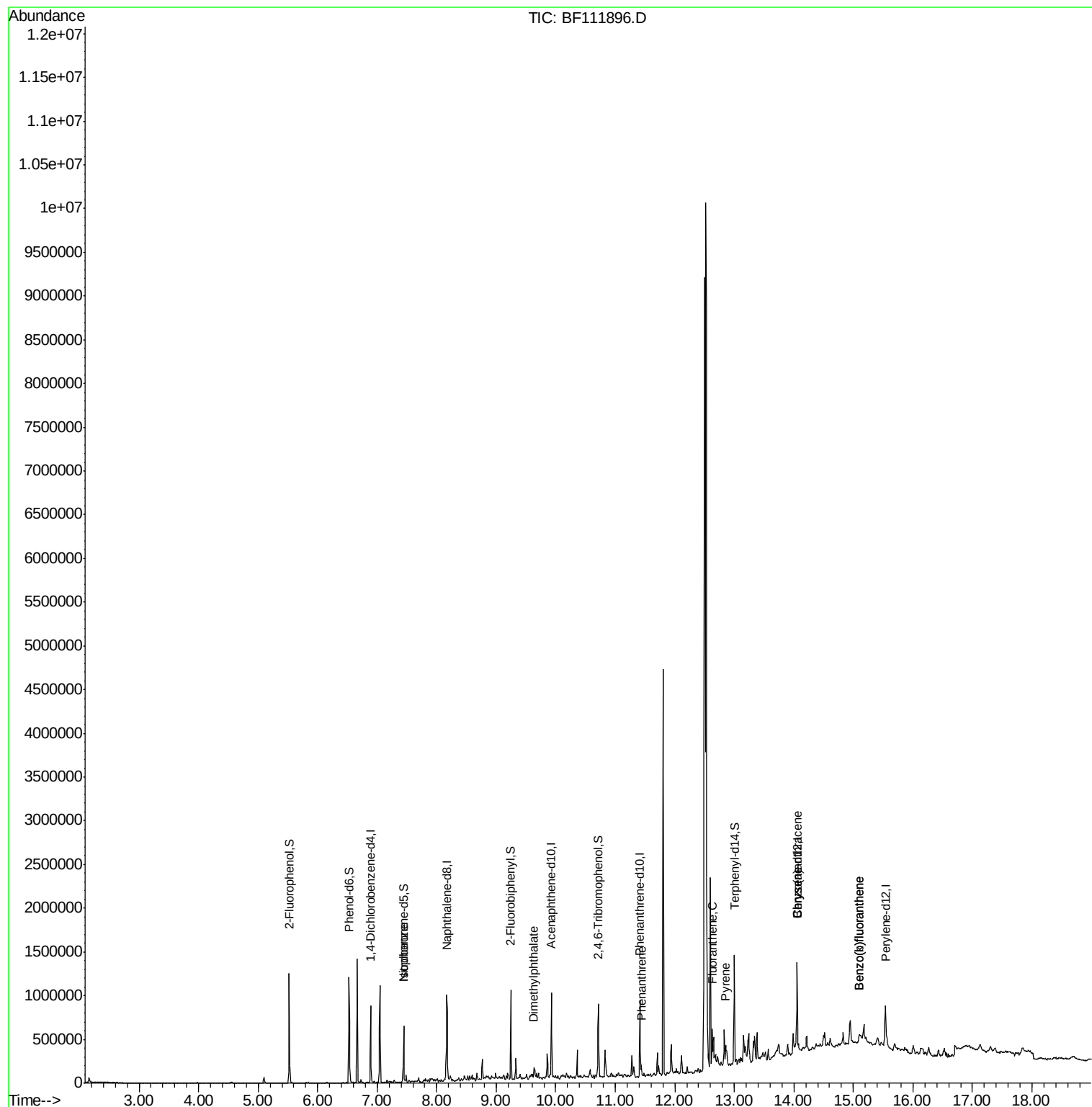
| Target Compounds         | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde          | 6.53  | 77   | 539      | Below Cal |       | # 1    |
| 25) Isophorone           | 7.45  | 82   | 189479   | 14.832    | ng    | # 65   |
| 50) Dimethylphthalate    | 9.63  | 163  | 30241    | 2.290     | ng    | # 98   |
| 71) Phenanthrene         | 11.44 | 178  | 52261    | 3.087     | ng    | 98     |
| 75) Fluoranthene         | 12.63 | 202  | 96275    | 5.540     | ng    | 97     |
| 78) Pyrene               | 12.86 | 202  | 89233    | 3.825     | ng    | 96     |
| 81) Benzo(a)anthracene   | 14.04 | 228  | 40884    | 2.095     | ng    | 99     |
| 83) Chrysene             | 14.04 | 228  | 40884    | 2.197     | ng    | 95     |
| 88) Benzo(b)fluoranthene | 15.10 | 252  | 42697    | 3.184     | ng    | # 70   |
| 89) Benzo(k)fluoranthene | 15.10 | 252  | 42697    | 3.387     | ng    | # 71   |

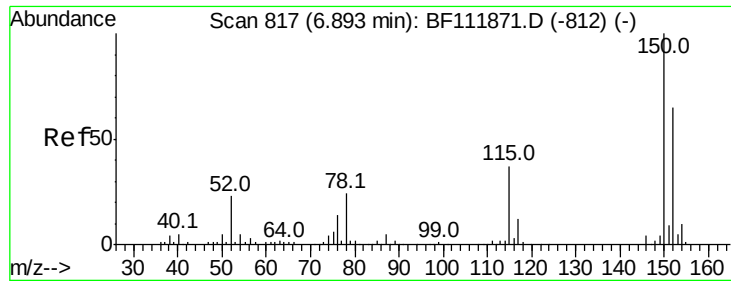
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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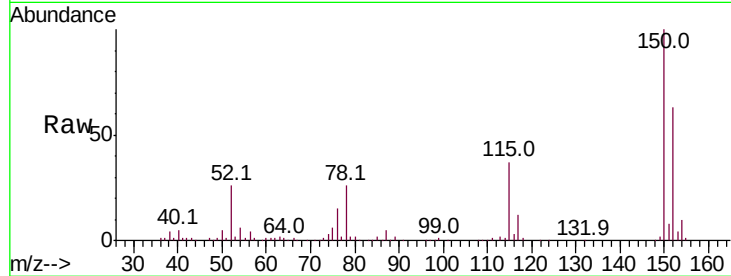


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.89 min Scan# 816  
Delta R.T. -0.01 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.8 | 122.7 | 184.1 |
| 115     | 59.3  | 45.2  | 67.8  |

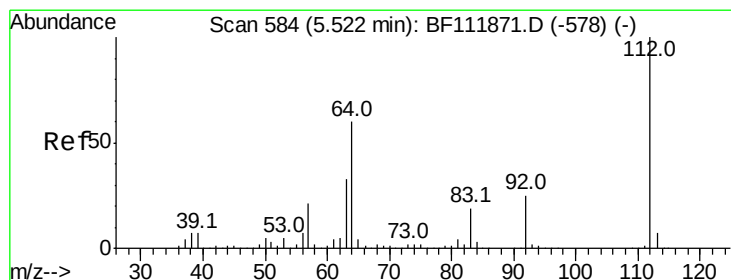
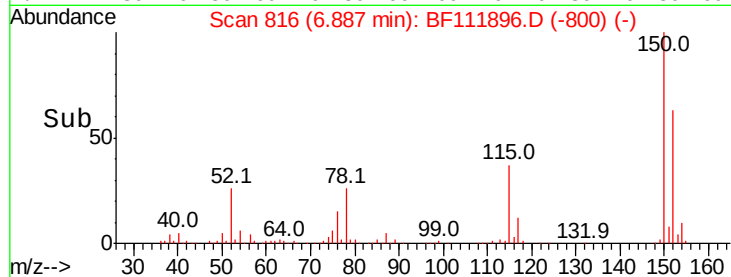
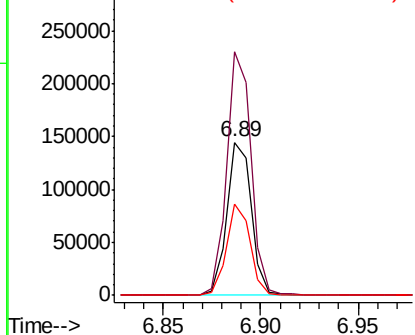


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

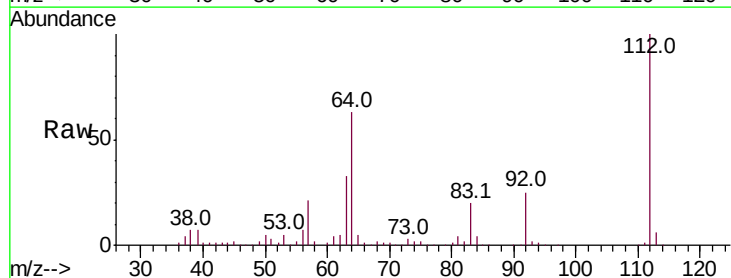
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 42.248 ng  
RT: 5.52 min Scan# 584  
Delta R.T. 0.00 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.9  | 48.3  | 72.5  |
| 63      | 33.4  | 26.1  | 39.1  |

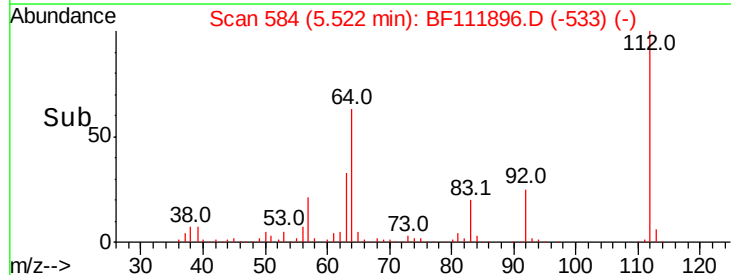
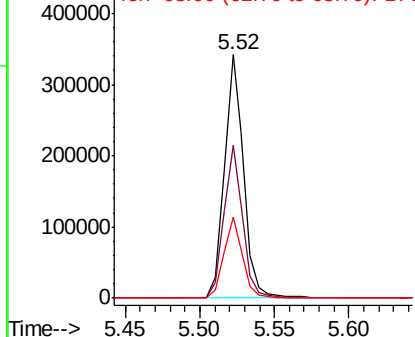


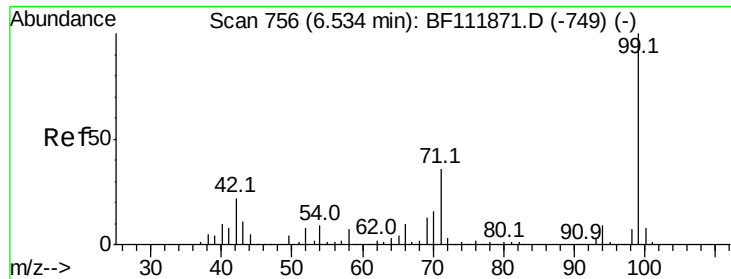
Abundance

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: 35.545 ng

RT: 6.53 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Instrument :

BNA\_F

ClientSampled :

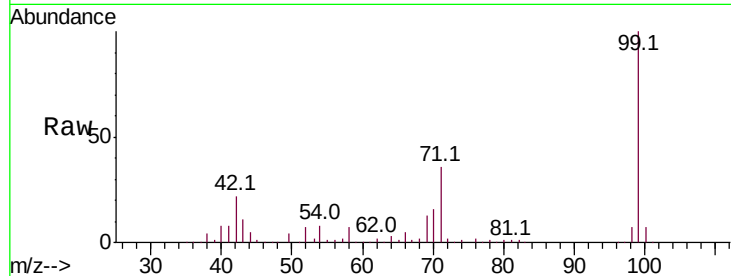
Tot Ion: 99 Resp: 338102

Ion Ratio Lower Upper

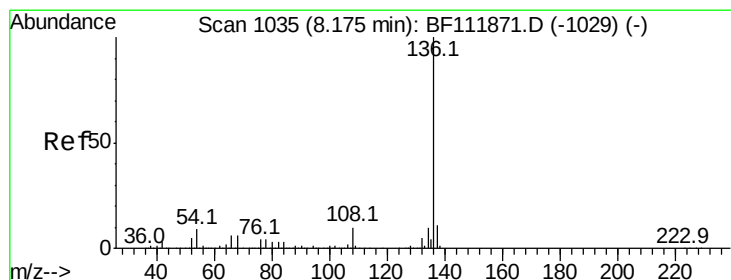
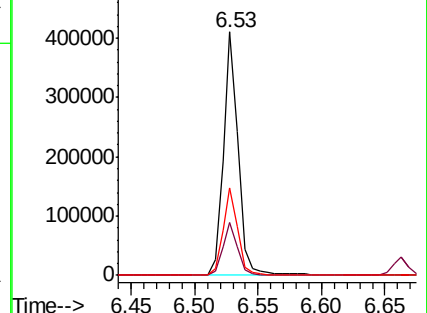
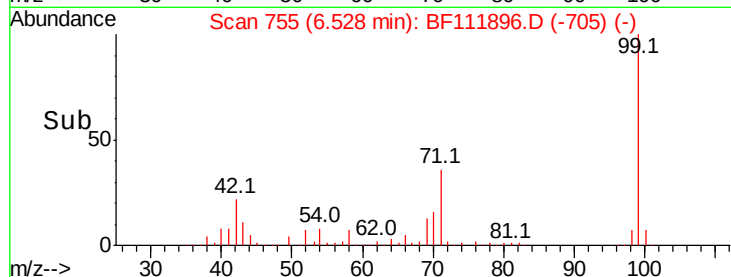
99 100

42 21.9 17.9 26.9

71 35.8 28.7 43.1



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Tgt Ion: 136 Resp: 421647

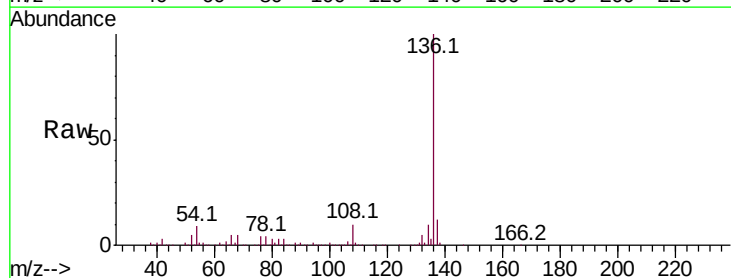
Ion Ratio Lower Upper

136 100

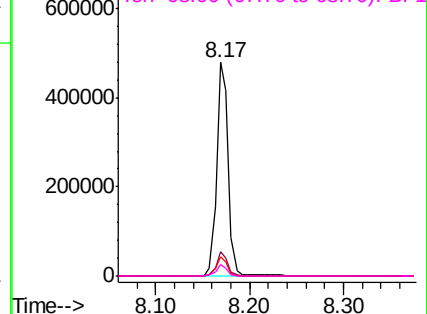
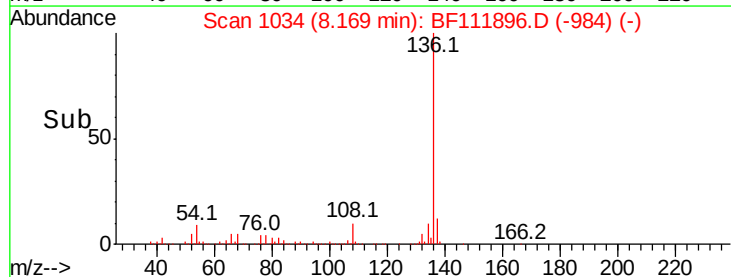
137 11.7 9.1 13.7

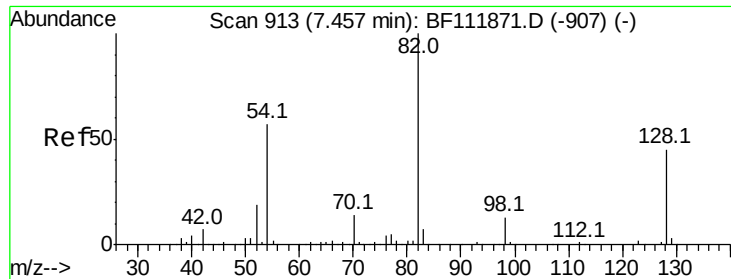
54 9.2 7.2 10.8

68 5.2 4.4 6.6



Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

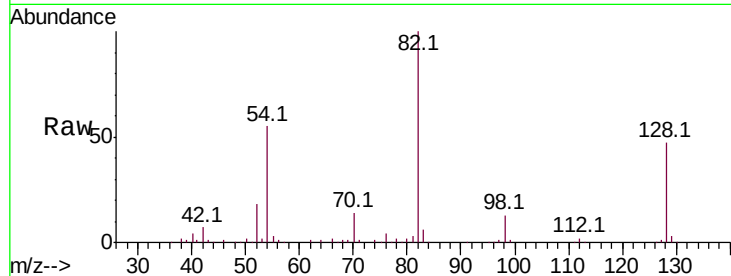




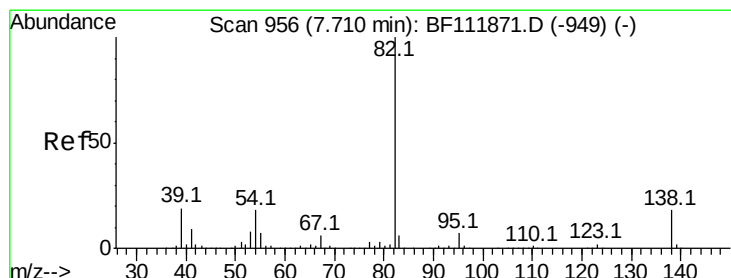
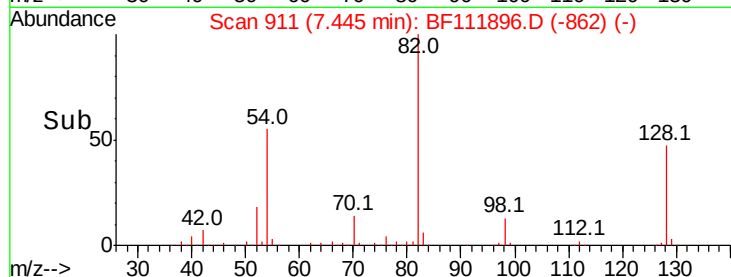
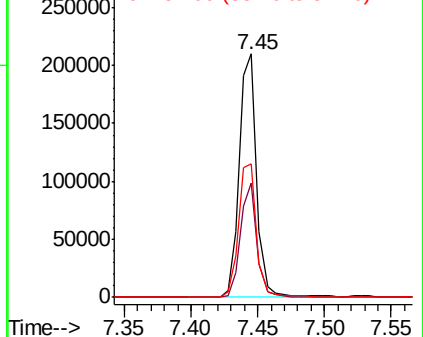
#23  
 Nitrobenzene-d5  
 Concen: 24.410 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.01 min  
 Lab File: BF111896.D  
 Acq: 8 Jan 2019 00:14

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion: 82 Resp: 192578  
 Ion Ratio Lower Upper  
 82 100  
 128 47.2 35.7 53.5  
 54 54.8 45.8 68.8

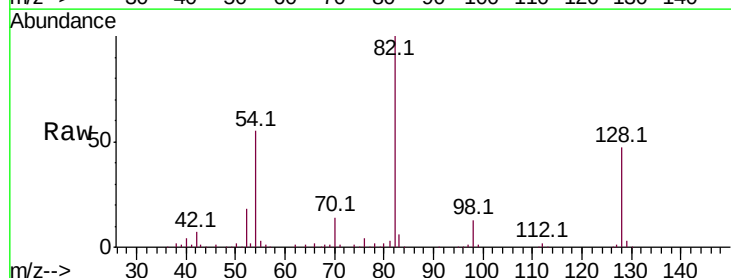


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

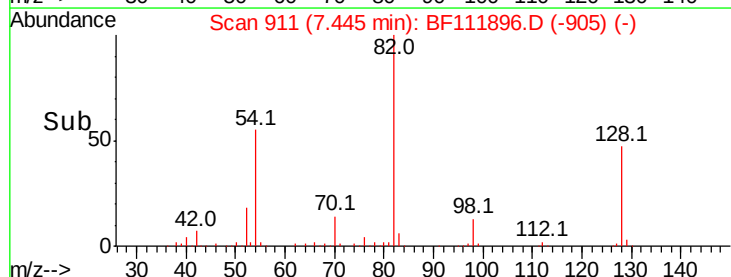
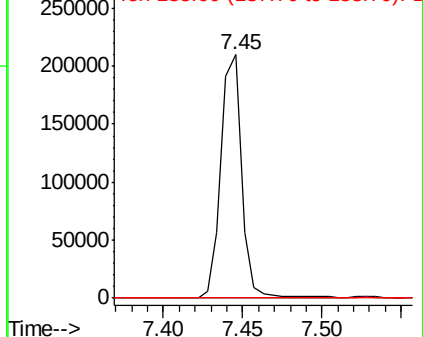


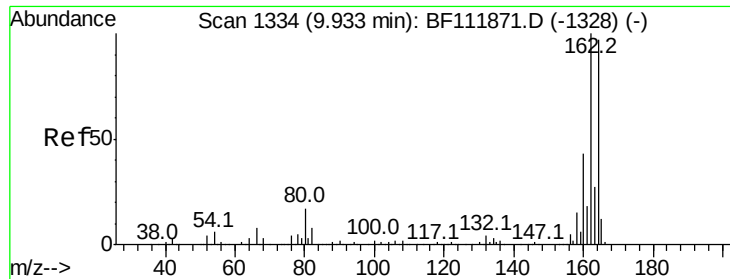
#25  
 Isophorone  
 Concen: 14.832 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.26 min  
 Lab File: BF111896.D  
 Acq: 8 Jan 2019 00:14

Tgt Ion: 82 Resp: 189479  
 Ion Ratio Lower Upper  
 82 100  
 95 0.2 5.8 8.6#  
 138 0.0 14.4 21.6#



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: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Instrument :

BNA\_F

ClientSampleId :

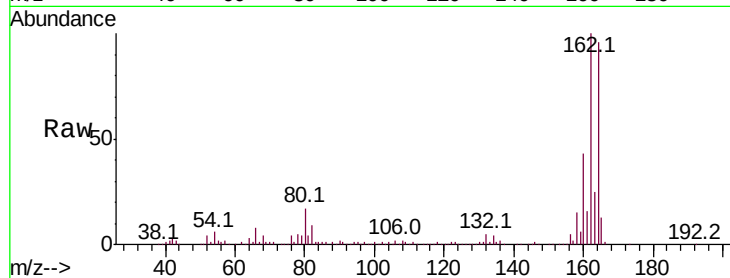
Tot Ion:164 Resp: 175760

Ion Ratio Lower Upper

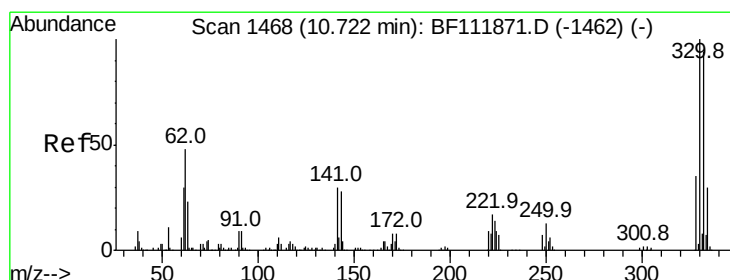
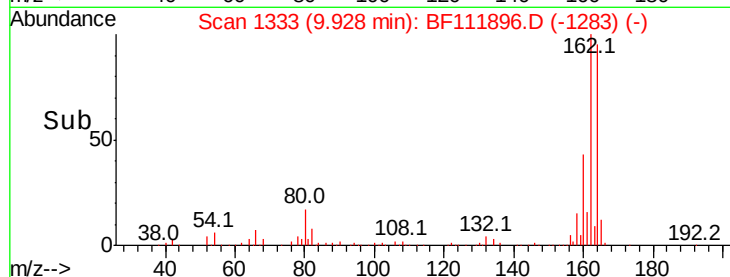
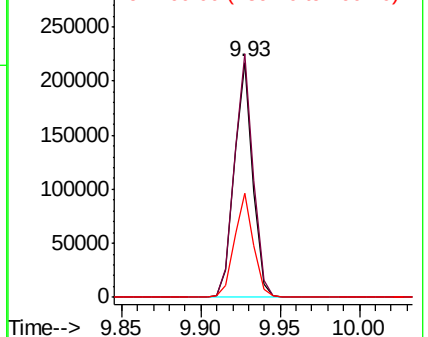
164 100

162 103.7 82.2 123.2

160 44.2 35.5 53.3



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: 42.772 ng

RT: 10.72 min Scan# 1467

Delta R.T. -0.01 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

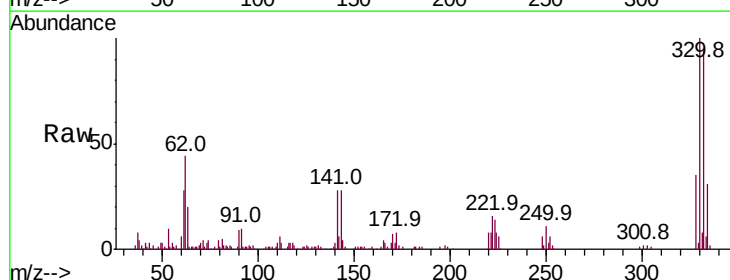
Tgt Ion:330 Resp: 97782

Ion Ratio Lower Upper

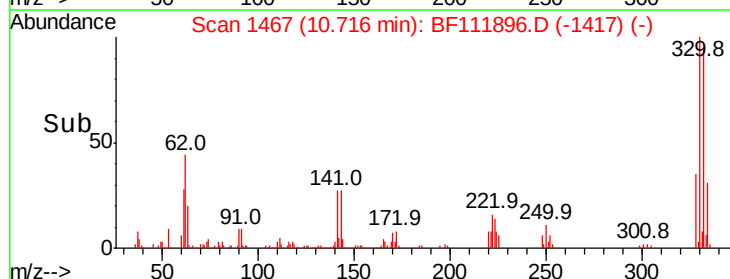
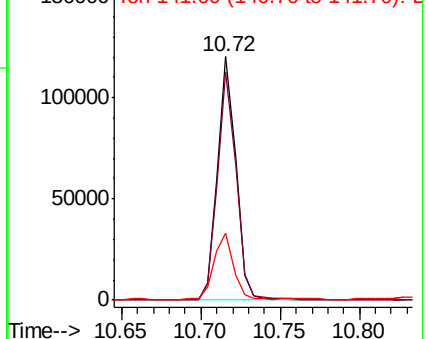
330 100

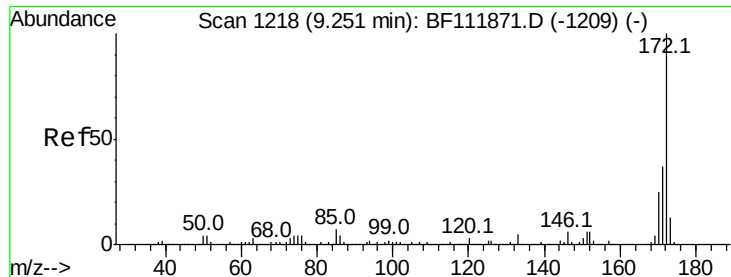
332 94.8 76.9 115.3

141 28.4 23.7 35.5



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

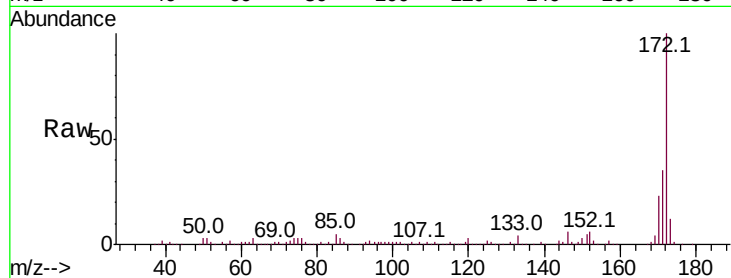




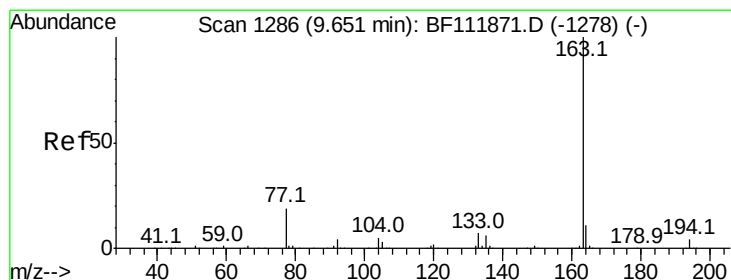
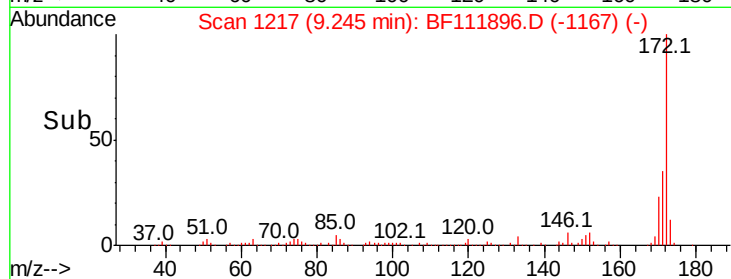
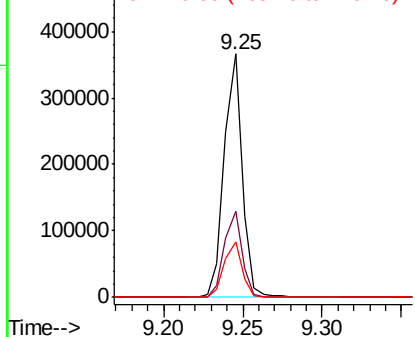
#45  
2-Fluorobiphenyl  
Concen: 23.998 ng  
RT: 9.25 min Scan# 1217  
Delta R.T. -0.01 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 29.6  | 44.4  |
| 170     | 22.9  | 19.8  | 29.8  |

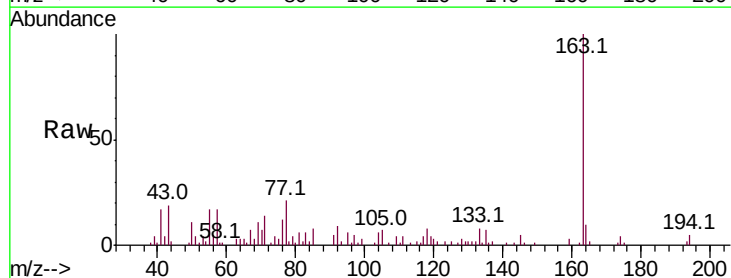


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

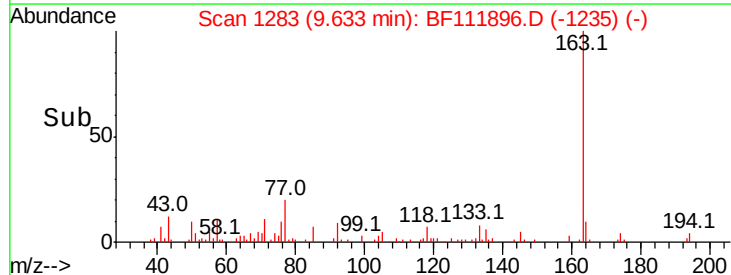
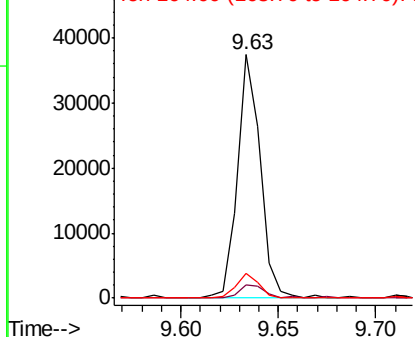


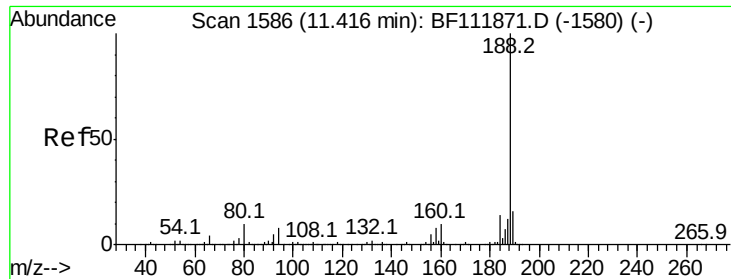
#50  
Dimethylphthalate  
Concen: 2.290 ng  
RT: 9.63 min Scan# 1283  
Delta R.T. -0.02 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.5   | 3.4   | 5.2#  |
| 164     | 10.2  | 8.5   | 12.7  |



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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1586

Delta R.T. 0.00 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Instrument :

BNA\_F

ClientSampled :

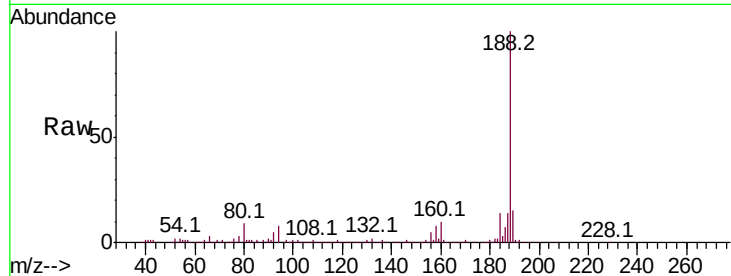
Tot Ion:188 Resp: 316615

Ion Ratio Lower Upper

188 100

94 7.6 6.6 10.0

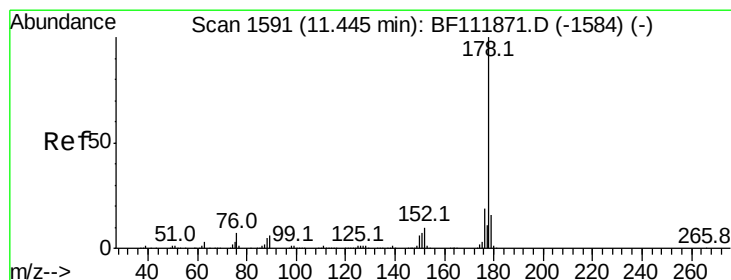
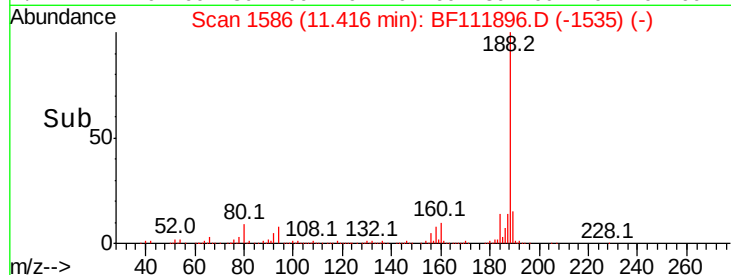
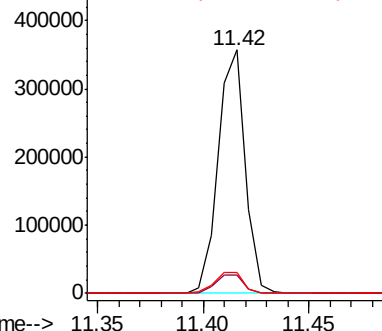
80 8.8 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 3.087 ng

RT: 11.44 min Scan# 1590

Delta R.T. -0.01 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

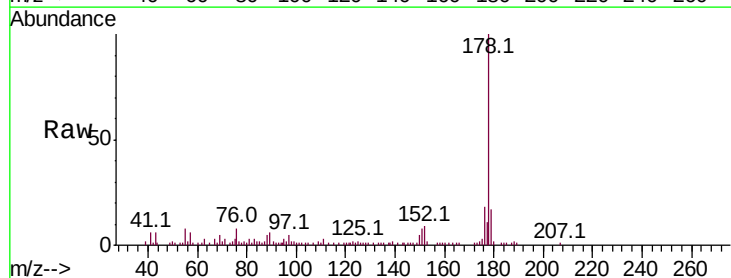
Tgt Ion:178 Resp: 52261

Ion Ratio Lower Upper

178 100

176 18.2 15.6 23.4

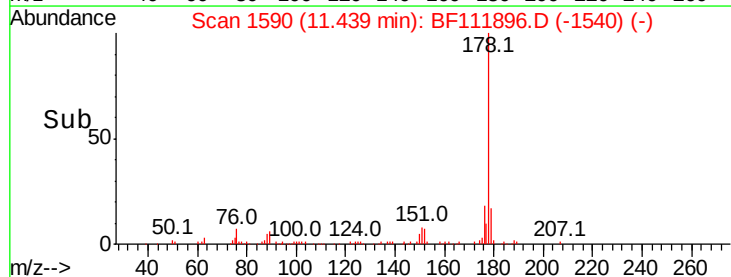
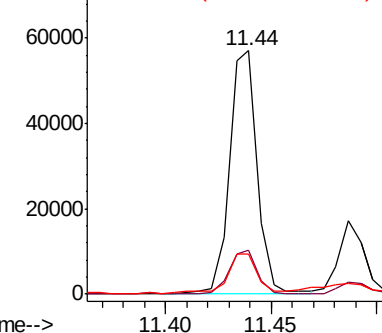
179 16.6 12.6 18.8



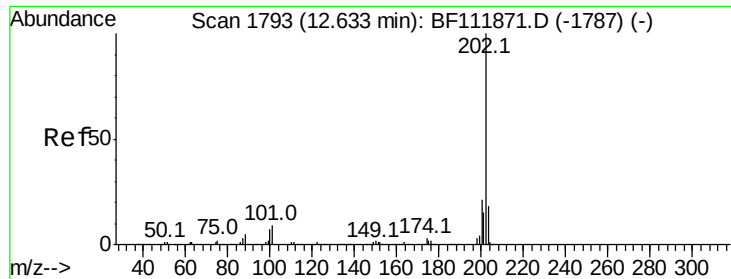
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E







#75

Fluoranthene

Concen: 5.540 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Instrument :

BNA\_F

ClientSampleId :

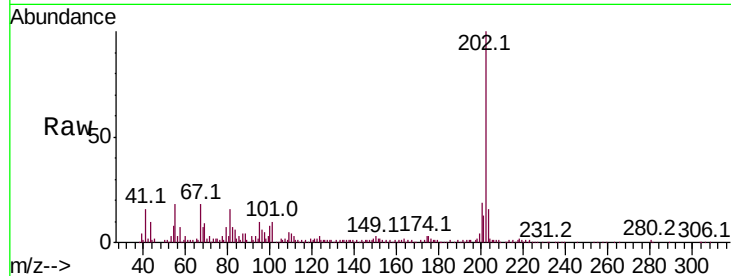
Tot Ion:202 Resp: 96275

Ion Ratio Lower Upper

202 100

101 9.8 0.0 29.3

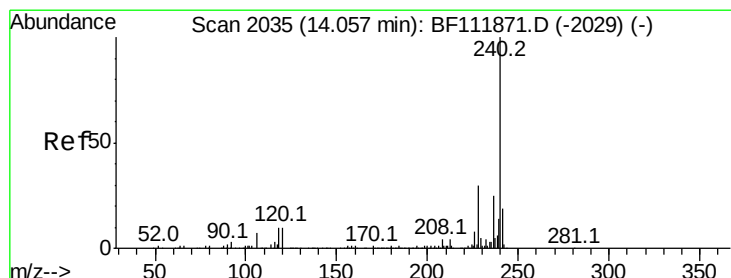
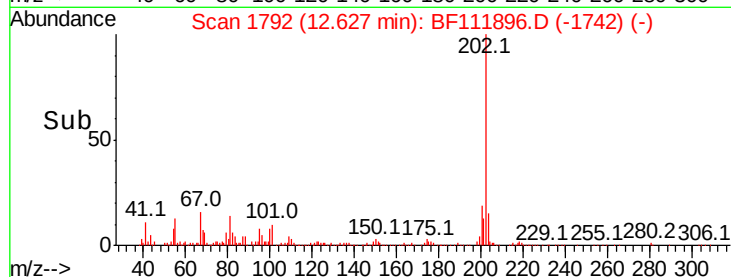
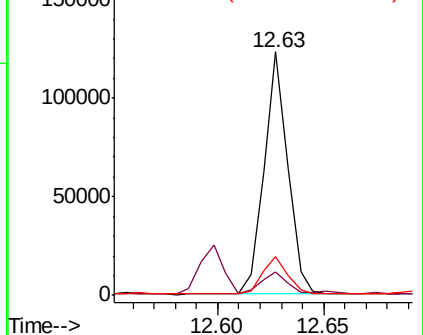
203 15.8 0.0 37.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.00 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

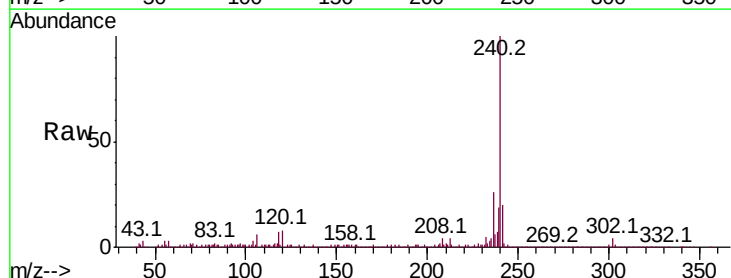
Tgt Ion:240 Resp: 339077

Ion Ratio Lower Upper

240 100

120 8.1 8.2 12.2#

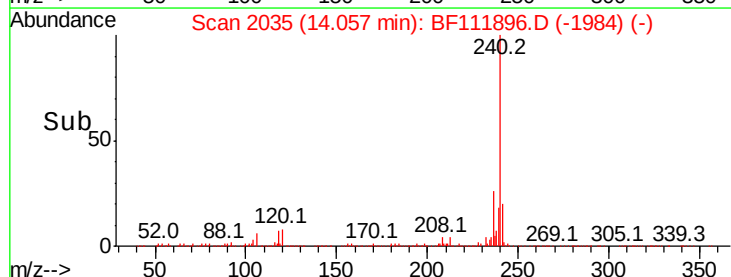
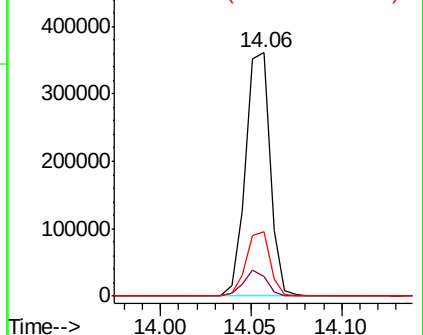
236 26.2 20.2 30.4

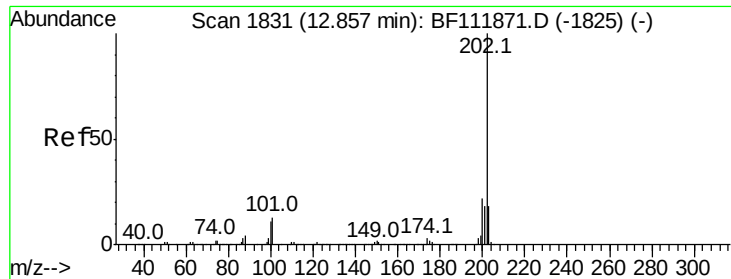


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

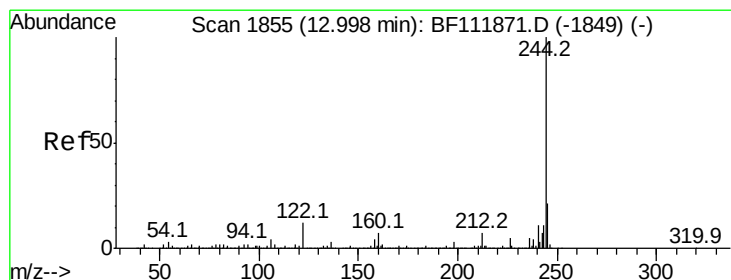
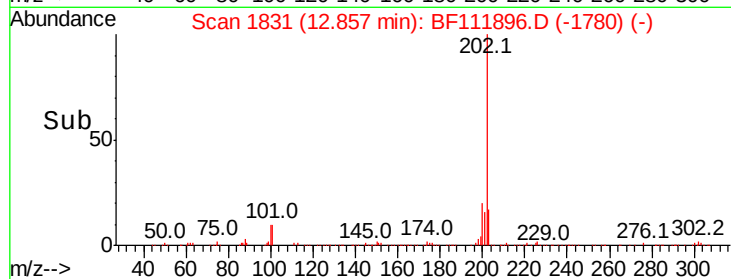
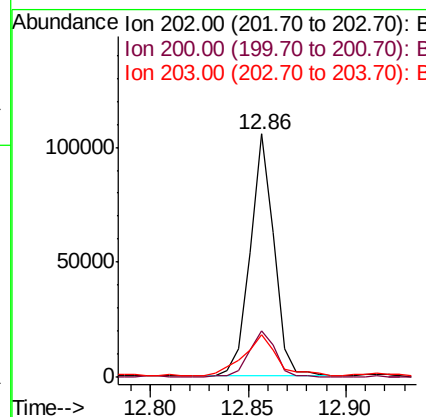
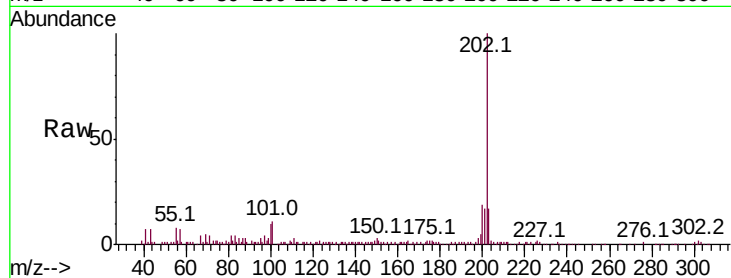




#78  
Pvrene  
Concen: 3.825 ng  
RT: 12.86 min Scan# 1831  
Delta R.T. 0.00 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

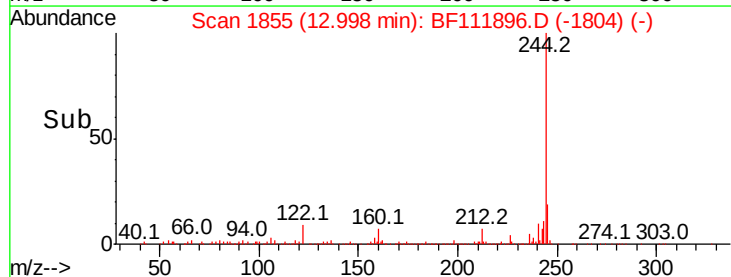
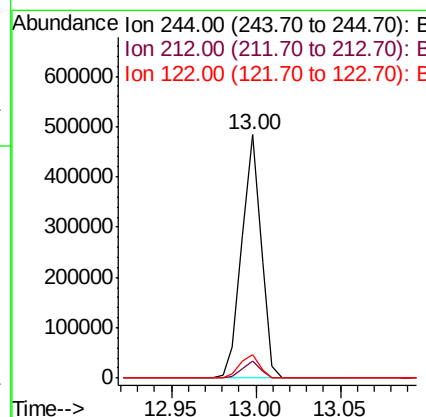
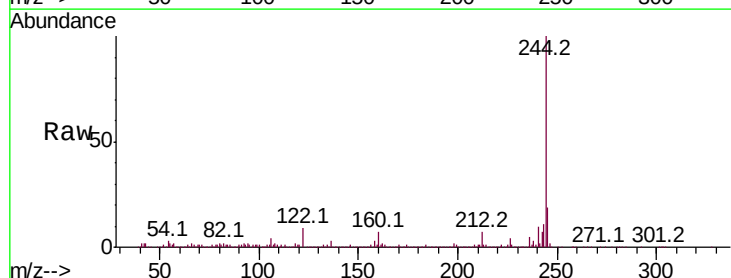
Instrument :  
BNA\_F  
ClientSampleId :

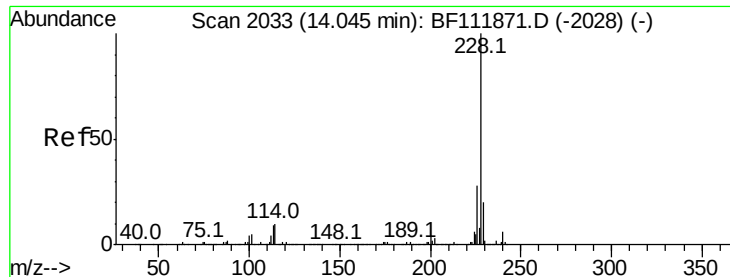
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.3  | 17.4  | 26.2  |
| 203     | 17.5  | 14.6  | 21.8  |



#79  
Terphenyl-d14  
Concen: 21.590 ng  
RT: 13.00 min Scan# 1855  
Delta R.T. 0.00 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 5.8   | 8.8   |
| 122     | 9.4   | 9.5   | 14.3# |





#81

Benzo(a)anthracene

Concen: 2.095 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Instrument :

BNA\_F

ClientSampleId :

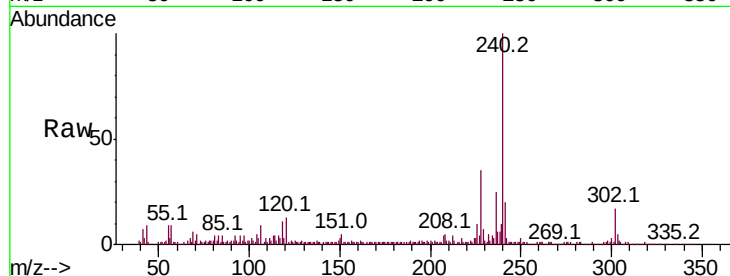
Tot Ion:228 Resp: 40884

Ion Ratio Lower Upper

228 100

226 27.4 22.2 33.2

229 21.1 16.2 24.2

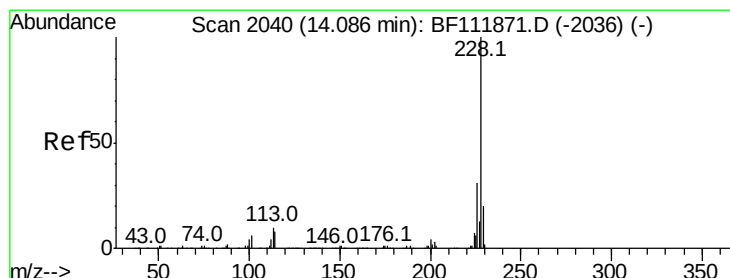
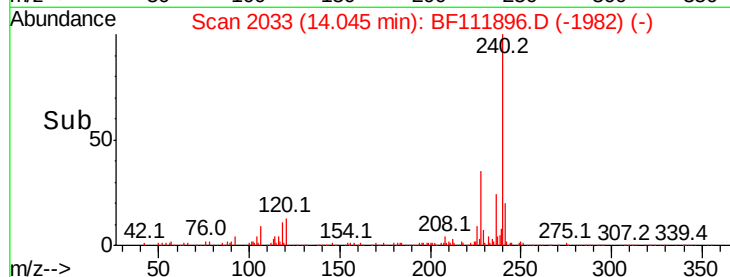
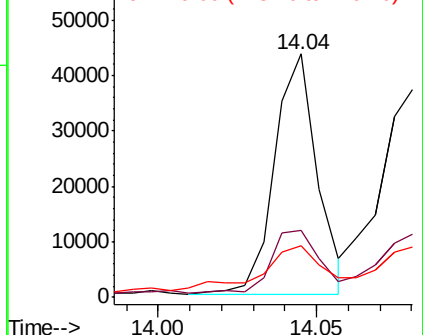


Abundance

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: 2.197 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.04 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

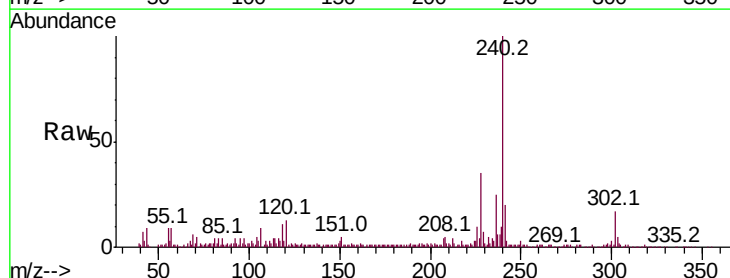
Tgt Ion:228 Resp: 40884

Ion Ratio Lower Upper

228 100

226 27.4 24.6 37.0

229 21.1 15.7 23.5

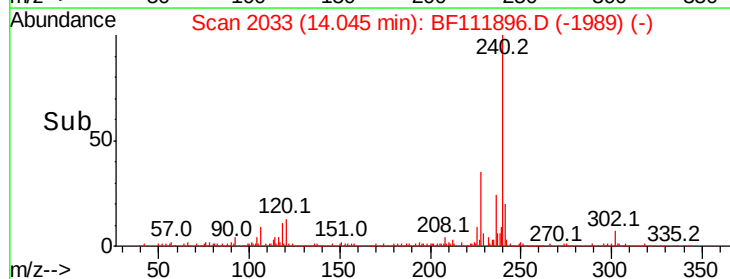
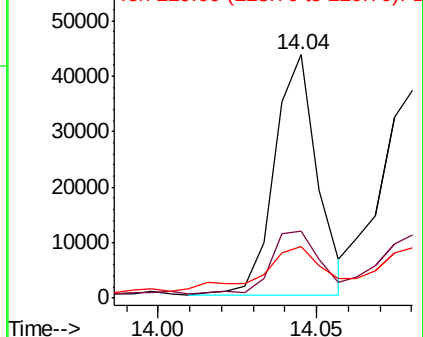


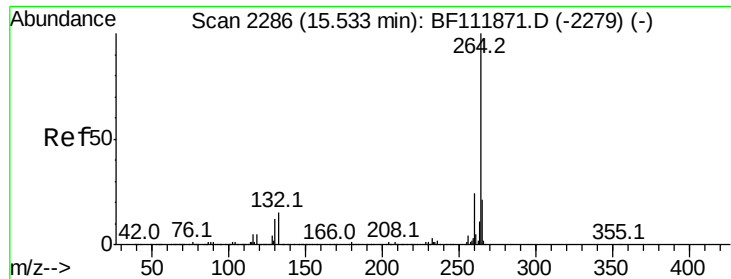
Abundance

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

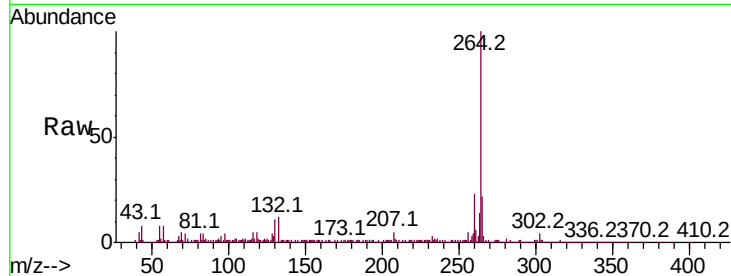




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.54 min Scan# 2287  
Delta R.T. 0.01 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.2  | 28.8  |
| 265     | 22.1  | 17.1  | 25.7  |

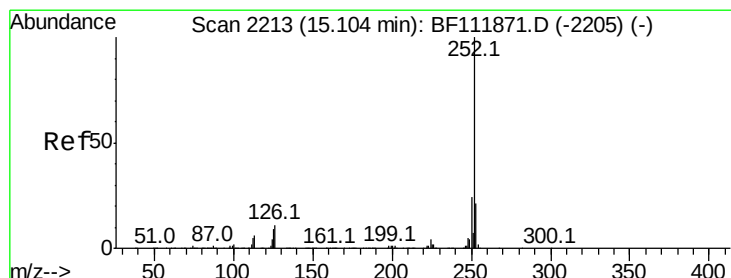
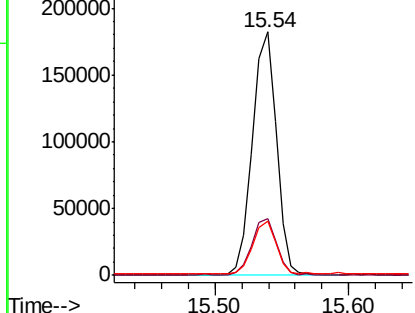
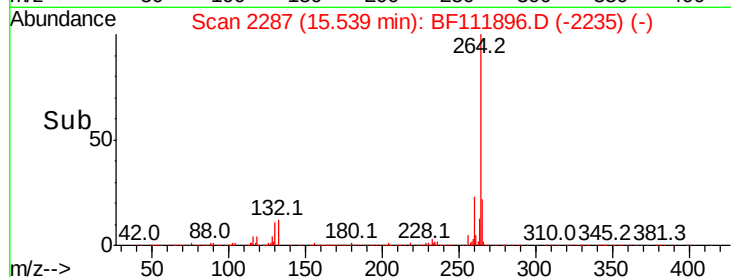


Abundance

Ion 264.00 (263.70 to 264.70): E

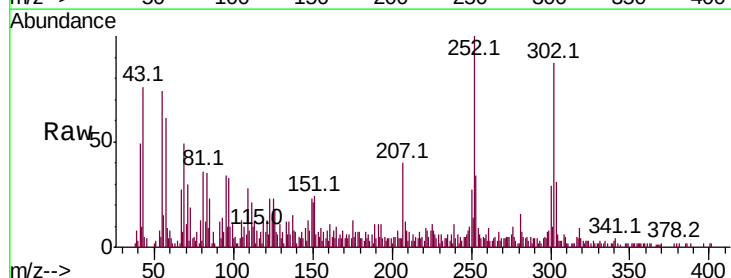
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88  
Benzo(b)fluoranthene  
Concen: 3.184 ng  
RT: 15.10 min Scan# 2212  
Delta R.T. -0.01 min  
Lab File: BF111896.D  
Acq: 8 Jan 2019 00:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 33.9  | 17.0  | 25.6# |
| 125     | 23.1  | 7.1   | 10.7# |

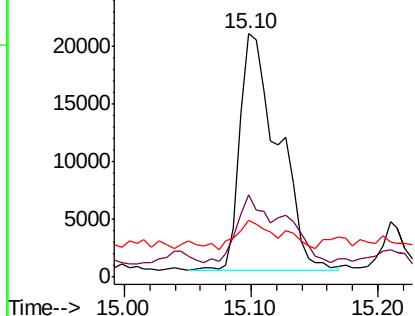
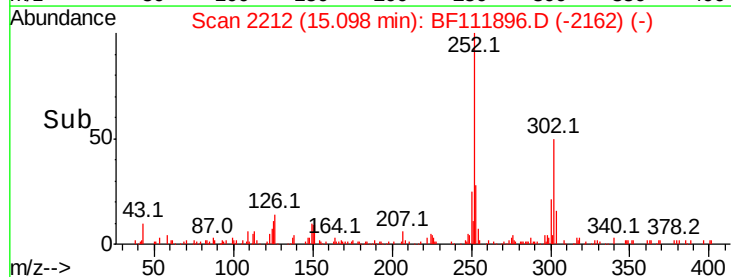


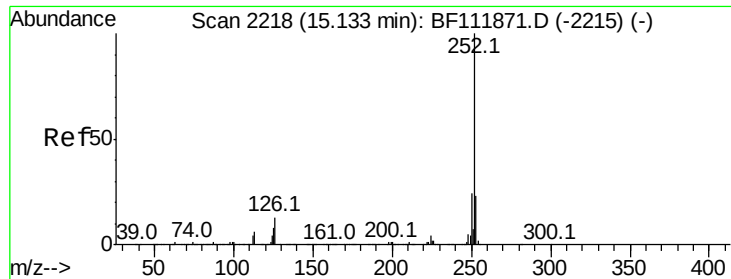
Abundance

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(k)fluoranthene

Concen: 3.387 ng

RT: 15.10 min Scan# 2212

Delta R.T. -0.04 min

Lab File: BF111896.D

Acq: 8 Jan 2019 00:14

Instrument :

BNA\_F

ClientSampleId :

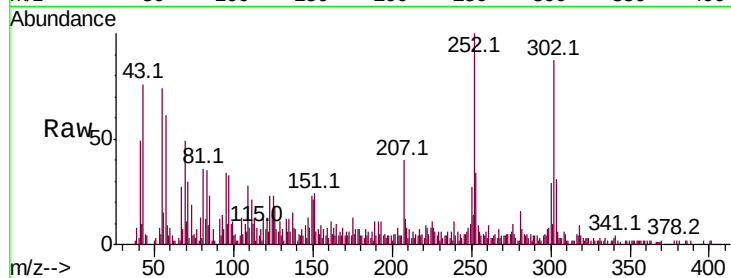
Tot Ion:252 Resp: 42697

Ion Ratio Lower Upper

252 100

253 33.9 17.8 26.6#

125 23.1 7.0 10.4#



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

