

Data File : BM012150.D  
Acq On : 14 Oct 2017 00:26  
Operator : SJ/JU  
Sample : I5772-11  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BE2N9

Quant Time: Oct 14 04:34:56 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Oct 14 04:34:07 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 193547   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.70 | 136  | 781162   | 20.00 | ng/ul | 0.06     |
| 35) Acenaphthene-d10      | 14.48 | 164  | 407528   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.23 | 188  | 828063   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.40 | 240  | 792174   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.72 | 264  | 823250   | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.24  | 96  | 27696   | 6.80  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.00  | 99  | 114494  | 7.29  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.16  | 67  | 305422  | 32.43 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.36  | 132 | 362299  | 27.20 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.54  | 113 | 218588  | 16.17 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.09  | 128 | 2951    | 0.50  | ng/ul | 0.09 |
| 22) 2-Nitrophenol-d4           | 9.73  | 143 | 248172  | 35.63 | ng/ul | 0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.28 | 165 | 413464  | 31.09 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.84 | 131 | 412109  | 33.11 | ng/ul | 0.06 |
| 43) Dimethylphthalate-d6       | 13.89 | 166 | 1270609 | 35.28 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.17 | 160 | 1583872 | 36.33 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.71 | 143 | 30887   | 5.70  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.47 | 176 | 1048139 | 35.46 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.62 | 200 | 181002  | 31.85 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.33 | 188 | 1530555 | 37.38 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.62 | 212 | 1599928 | 39.79 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.57 | 264 | 1567395 | 39.49 | ng/ul | 0.00 |

#### Target Compounds

|                                |       |     |          |         |        | Qvalue |
|--------------------------------|-------|-----|----------|---------|--------|--------|
| 4) Benzaldehyde                | 6.96  | 77  | 180364   | 17.19   | ng/ul# | 1      |
| 16) 4-Methylphenol             | 8.61  | 108 | 50562    | 3.76    | ng/ul  | 96     |
| 17) Hexachloroethane           | 8.93  | 117 | 198654   | 34.63   | ng/ul# | 1      |
| 24) 2,4-Dimethylphenol         | 9.85  | 107 | 143479   | 9.53    | ng/ul  | 91     |
| 25) Bis(2-Chloroethoxy)methane | 10.06 | 93  | 48524    | 2.99    | ng/ul# | 1      |
| 30) 4-Chloroaniline            | 10.81 | 127 | 35016340 | 2860.97 | ng/ul# | 29     |
| 34) 2-Methylnaphthalene        | 12.30 | 142 | 3007424  | 98.61   | ng/ul  | 98     |
| 40) 1,1'-Biphenyl              | 13.31 | 154 | 4155687  | 120.83  | ng/ul  | 99     |
| 42) 2-Nitroaniline             | 13.63 | 65  | 60953    | 8.12    | ng/ul# | 30     |
| 47) Acenaphthylene             | 14.20 | 152 | 1460742  | 34.12   | ng/ul# | 97     |
| 49) Acenaphthene               | 14.56 | 153 | 11399627 | 395.30  | ng/ul  | 98     |
| 50) 2,4-Dinitrophenol          | 14.77 | 184 | 9673     | 2.38    | ng/ul# | 1      |
| 52) 4-Nitrophenol              | 14.67 | 109 | 5855     | 1.20    | ng/ul# | 1      |
| 53) Dibenzofuran               | 14.89 | 168 | 10136062 | 244.10  | ng/ul  | 99     |
| 58) Fluorene                   | 15.53 | 166 | 5731079  | 166.18  | ng/ul  | 99     |
| 60) 4-Nitroaniline             | 15.53 | 138 | 70412    | 10.23   | ng/ul# | 18     |
| 64) N-Nitrosodiphenylamine     | 15.74 | 169 | 28832    | 1.11    | ng/ul# | 1      |
| 69) Phenanthrene               | 17.27 | 178 | 7776208  | 165.08  | ng/ul  | 99     |
| 71) Anthracene                 | 17.36 | 178 | 404841   | 8.30    | ng/ul  | 98     |
| 72) Carbazole                  | 17.65 | 167 | 11803563 | 285.99  | ng/ul  | 97     |
| 74) Fluoranthene               | 19.29 | 202 | 596596   | 10.49   | ng/ul# | 93     |
| 77) Pyrene                     | 19.64 | 202 | 307618   | 5.88    | ng/ul# | 92     |

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM101317\  
Quantitation Report (Not Reviewed)

Data File : BM012150.D  
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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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

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Operator : SJ/JU

Sample : I5772-11

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ALS Vial : 8 Sample Multiplier: 1

Instrument :

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ClientSampleId :

BE2N9

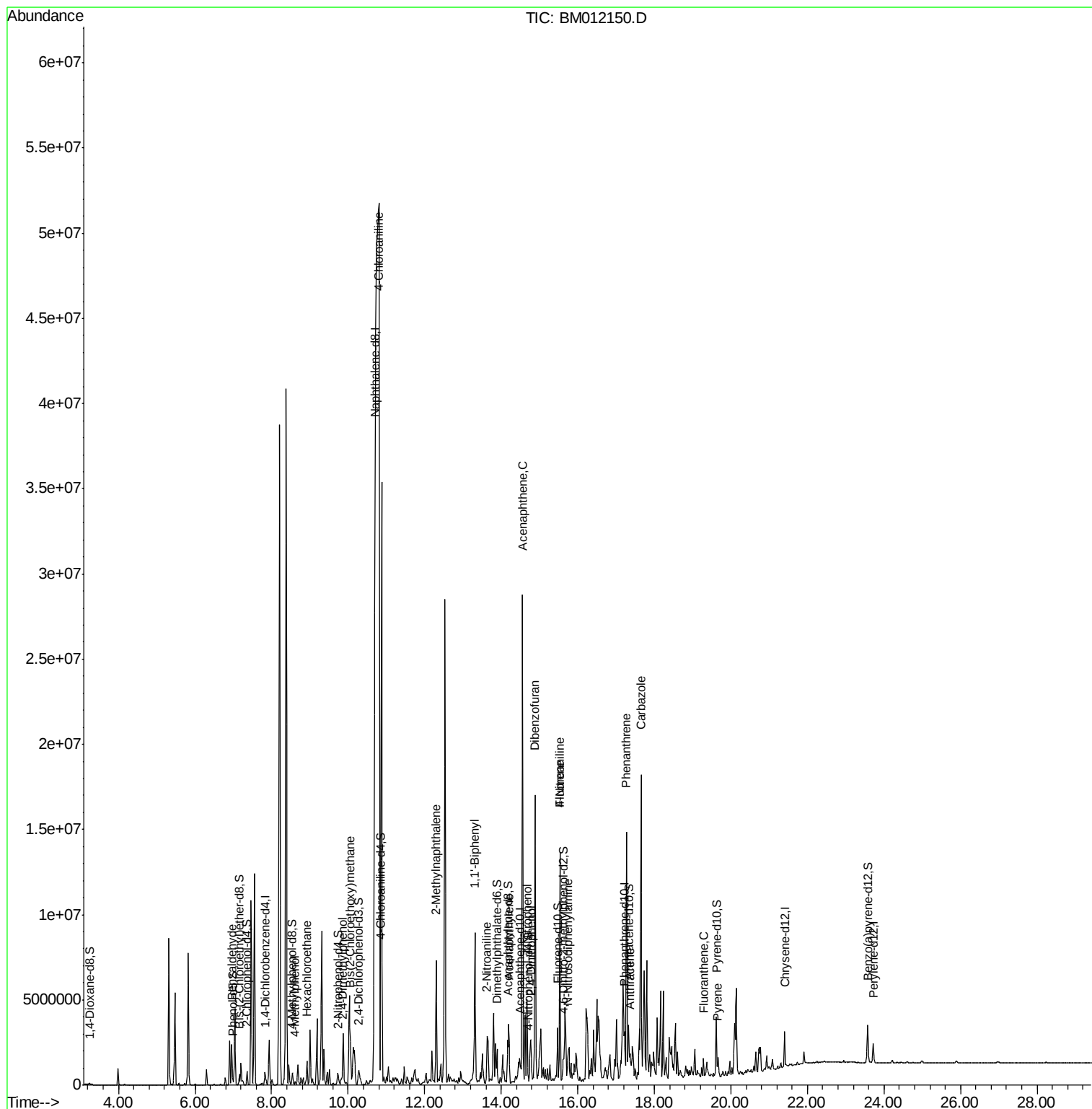
Quant Time: Oct 14 04:34:56 2017

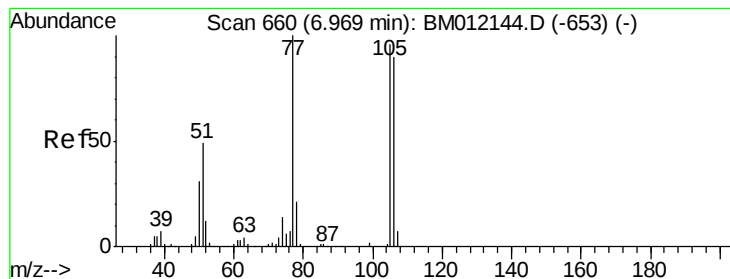
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM101217.M

Quant Title : SVOA CALIBRATION

QLast Update : Sat Oct 14 04:34:07 2017

Response via : Initial Calibration





#4

Benzaldehyde

Concen: 17.19 ng/ul

RT: 6.96 min Scan# 659

Delta R.T. -0.01 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

BE2N9

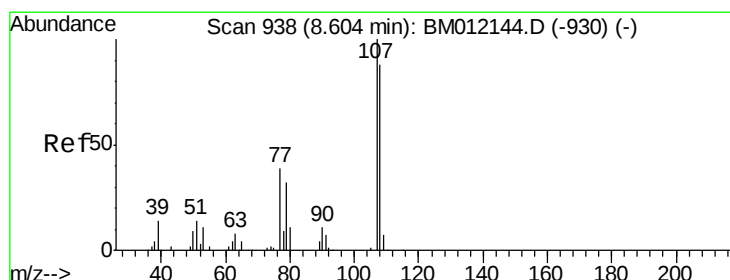
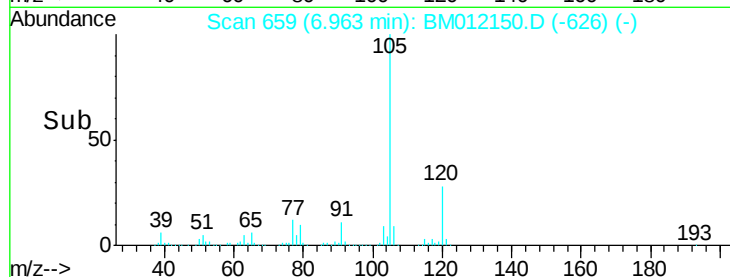
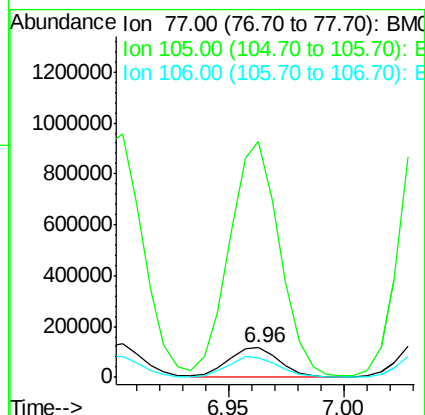
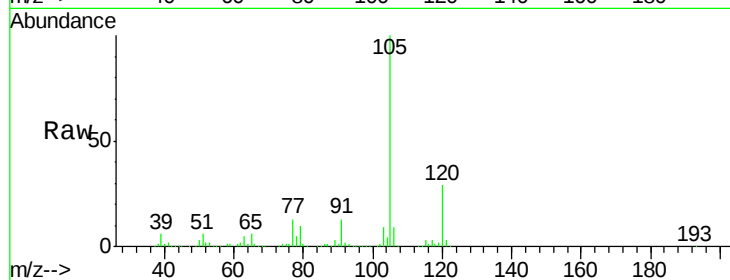
Tgt Ion: 77 Resp: 180364

Ion Ratio Lower Upper

77 100

105 795.1 66.1 99.1#

106 68.0 67.8 101.6



#16

4-Methylphenol

Concen: 3.76 ng/ul

RT: 8.61 min Scan# 939

Delta R.T. 0.01 min

Lab File: BM012150.D

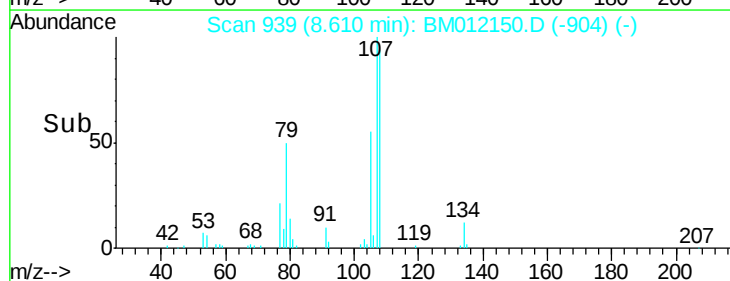
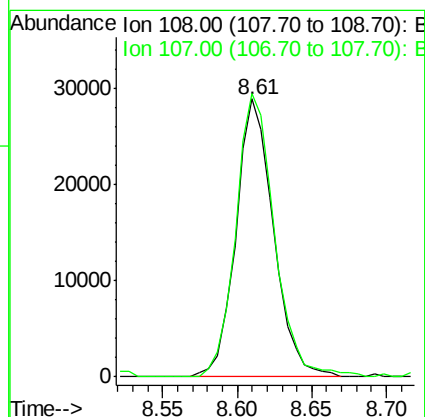
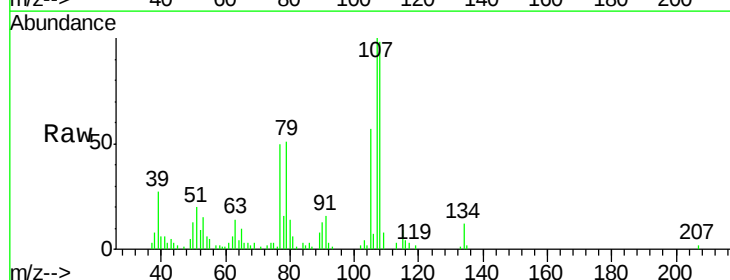
Acq: 14 Oct 2017 00:26

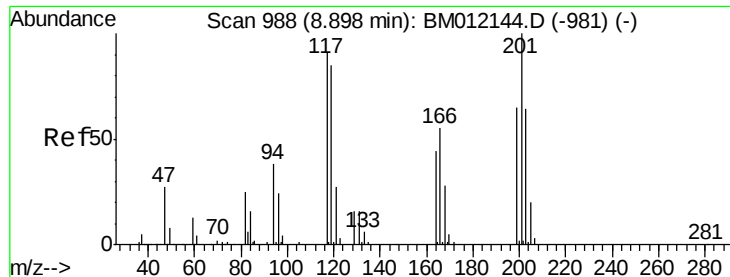
Tgt Ion: 108 Resp: 50562

Ion Ratio Lower Upper

108 100

107 101.7 84.9 127.3





#17

Hexachloroethane

Concen: 34.63 ng/ul

RT: 8.93 min Scan# 993

Delta R.T. 0.03 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

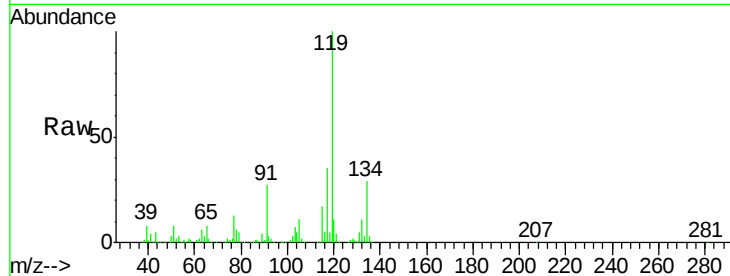
Instrument :

BNA\_M

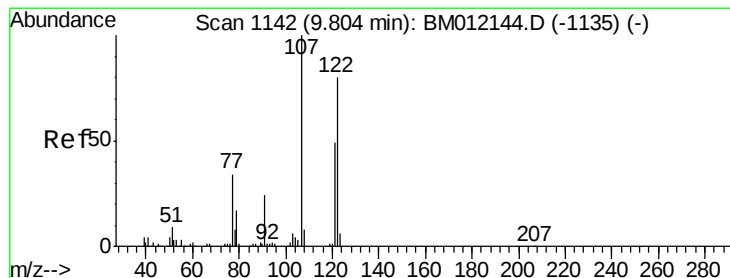
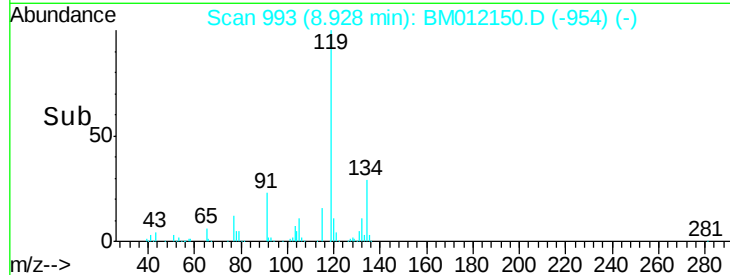
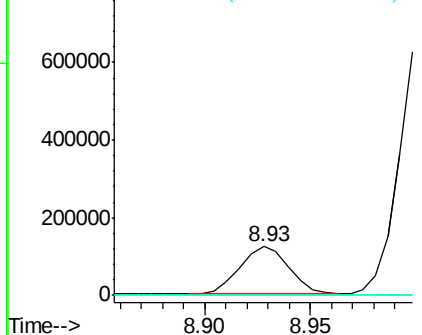
ClientSampleId :

BE2N9

Tgt Ion:117 Resp: 198654  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 111.6 167.4#  
 199 0.0 67.8 101.6#



Abundance Ion 117.00 (116.70 to 117.70): E  
 Ion 201.00 (200.70 to 201.70): E  
 Ion 199.00 (198.70 to 199.70): E



#24

2,4-Dimethylphenol

Concen: 9.53 ng/ul

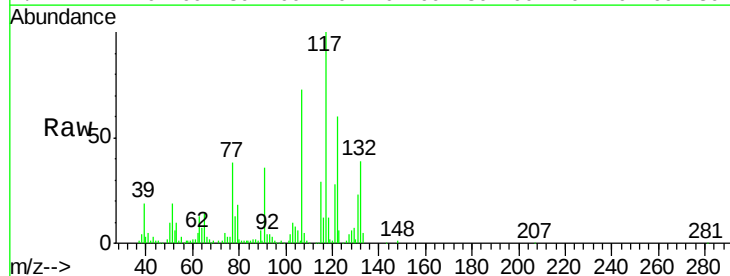
RT: 9.85 min Scan# 1150

Delta R.T. 0.05 min

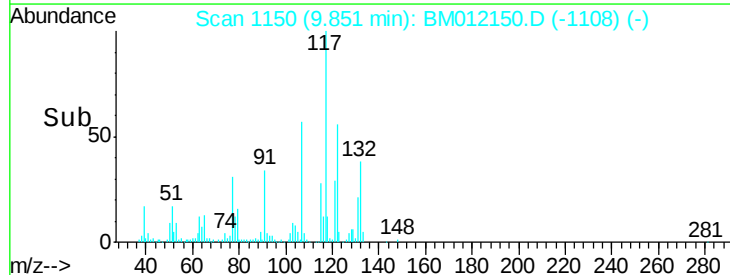
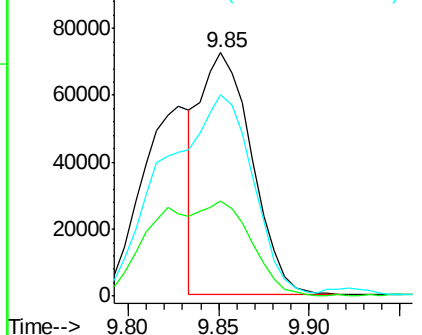
Lab File: BM012150.D

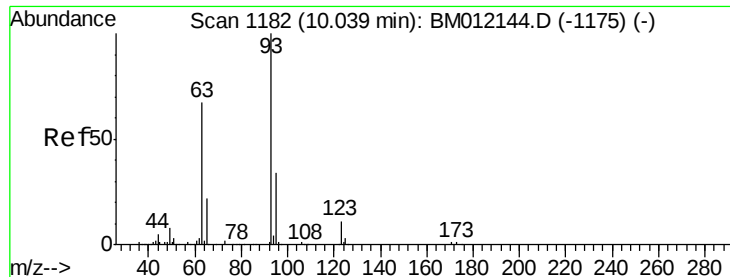
Acq: 14 Oct 2017 00:26

Tgt Ion:107 Resp: 143479  
 Ion Ratio Lower Upper  
 107 100  
 121 38.9 31.9 47.9  
 122 82.8 57.8 86.6



Abundance Ion 107.00 (106.70 to 107.70): E  
 Ion 121.00 (120.70 to 121.70): E  
 Ion 122.00 (121.70 to 122.70): E





#25

Bis(2-Chloroethoxy)methane

Concen: 2.99 ng/ul

RT: 10.06 min Scan# 1185

Delta R.T. 0.02 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

BE2N9

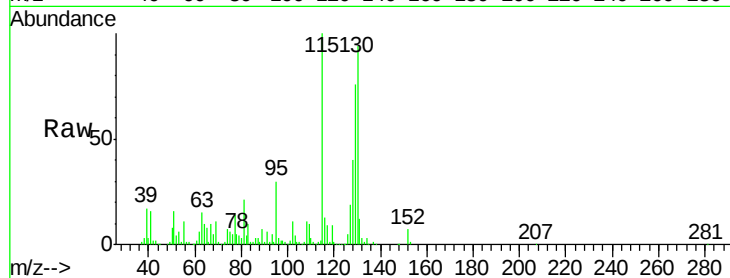
Tgt Ion: 93 Resp: 48524

Ion Ratio Lower Upper

93 100

95 591.4 28.5 42.7#

123 7.4 8.9 13.3#

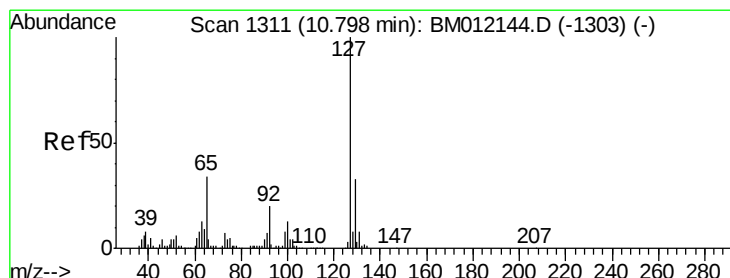
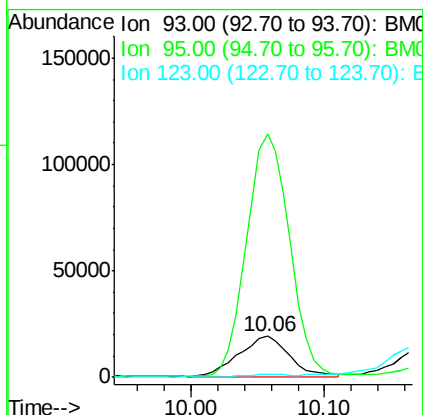
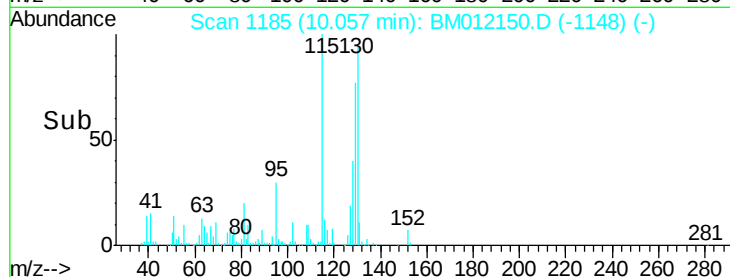


Abundance Ion 93.00 (92.70 to 93.70): BM012144.D (-1175) (-)

Ion 95.00 (94.70 to 95.70): BM012144.D (-1175) (-)

Ion 123.00 (122.70 to 123.70): BM012144.D (-1175) (-)

Time-->



#30

4-Chloroaniline

Concen: 2860.97 ng/ul

RT: 10.81 min Scan# 1313

Delta R.T. 0.01 min

Lab File: BM012150.D

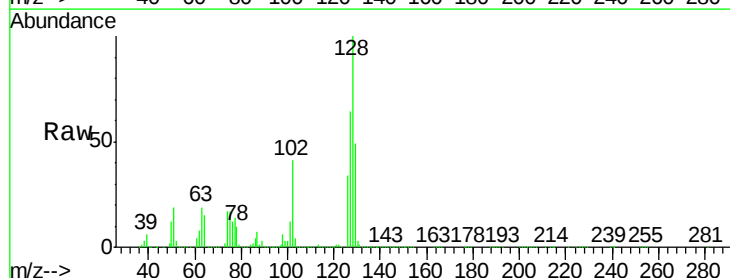
Acq: 14 Oct 2017 00:26

Tgt Ion: 127 Resp: 35016340

Ion Ratio Lower Upper

127 100

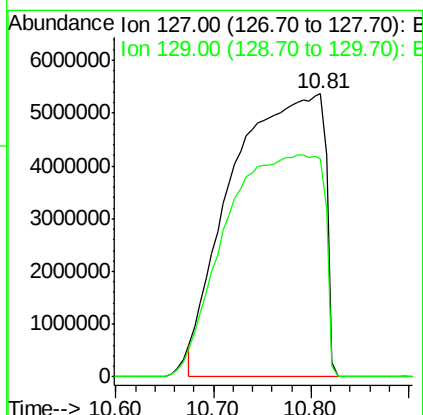
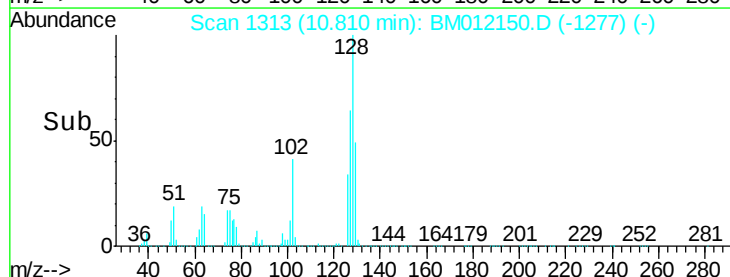
129 76.9 28.4 42.6#

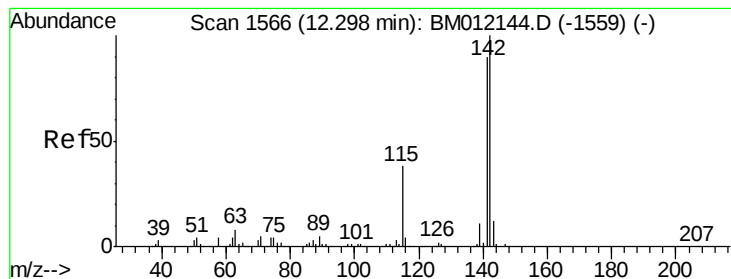


Abundance Ion 127.00 (126.70 to 127.70): BM012144.D (-1303) (-)

Ion 129.00 (128.70 to 129.70): BM012144.D (-1303) (-)

Time-->





#34

2-Methylnaphthalene

Concen: 98.61 ng/ul

RT: 12.30 min Scan# 1566

Delta R.T. -0.00 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

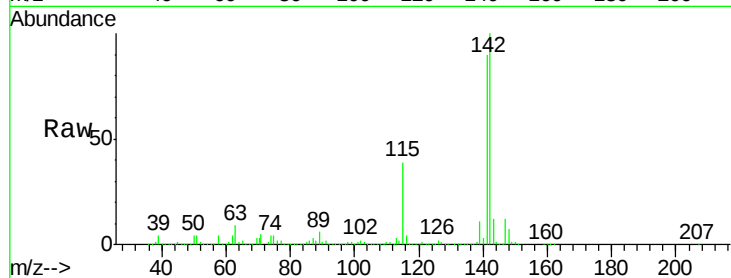
BE2N9

Tgt Ion:142 Resp: 3007424

Ion Ratio Lower Upper

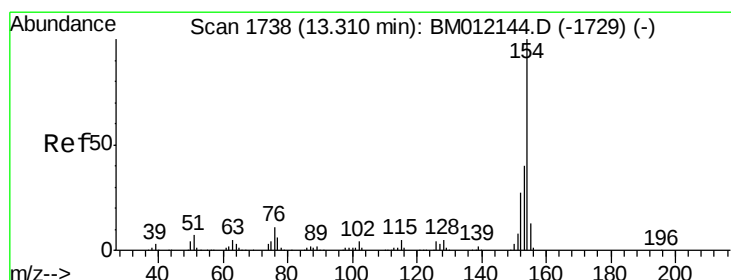
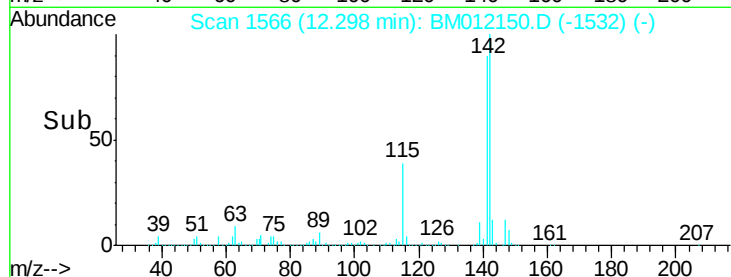
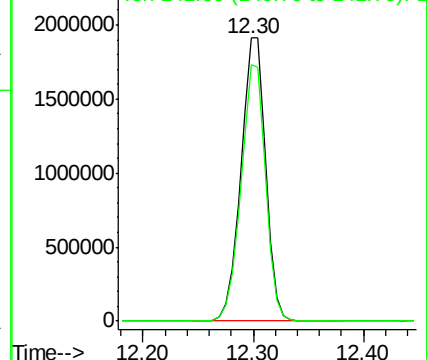
142 100

141 90.5 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#40

1,1'-Biphenyl

Concen: 120.83 ng/ul

RT: 13.31 min Scan# 1738

Delta R.T. -0.00 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

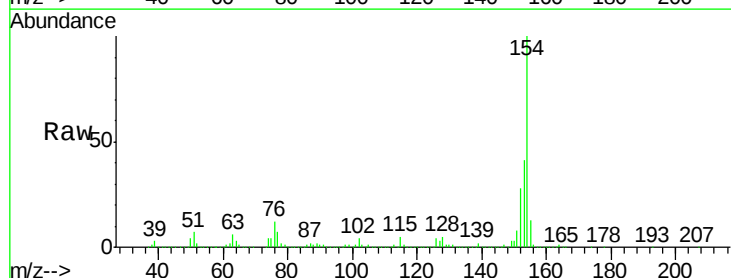
Tgt Ion:154 Resp: 4155687

Ion Ratio Lower Upper

154 100

153 40.8 32.6 48.8

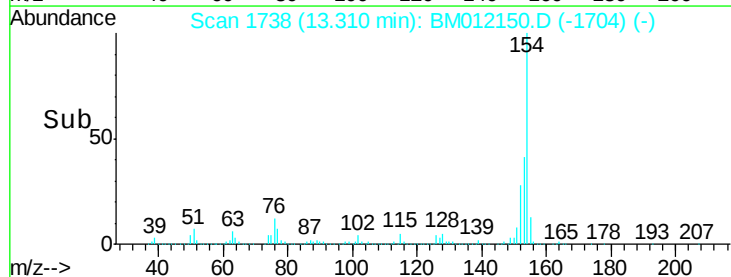
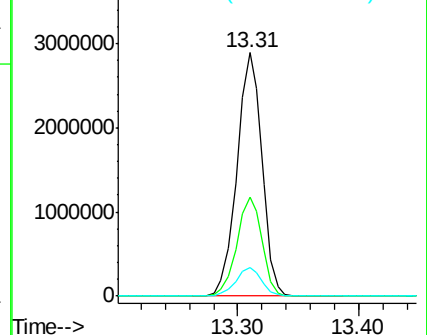
76 11.7 8.5 12.7

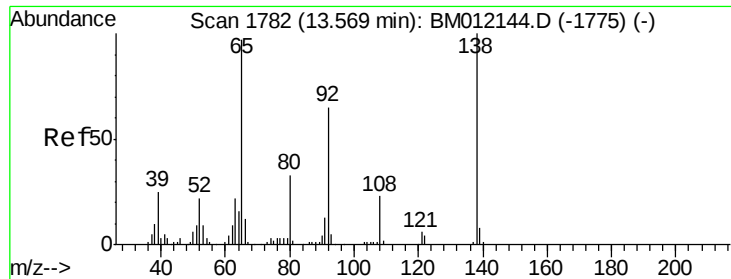


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM





#42

2-Nitroaniline

Concen: 8.12 ng/ul

RT: 13.63 min Scan# 1792

Delta R.T. 0.06 min

Lab File: BM012150.D

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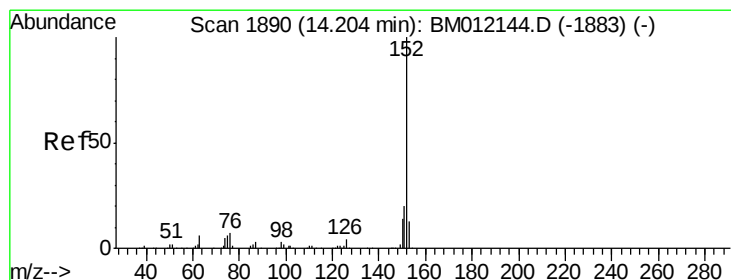
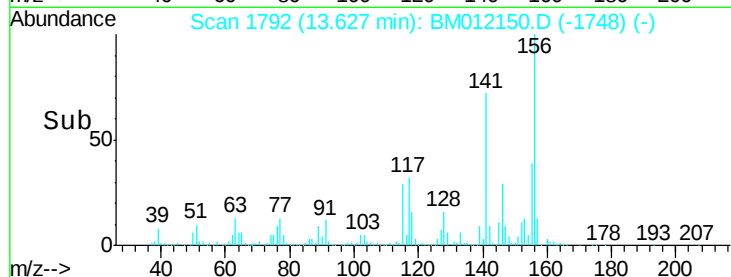
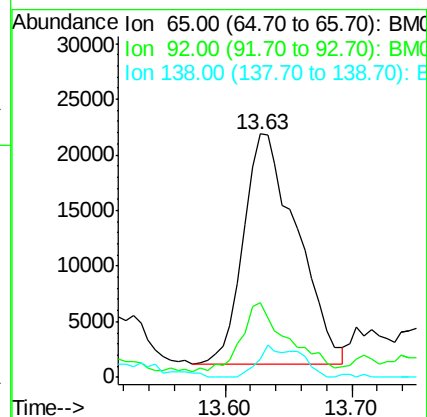
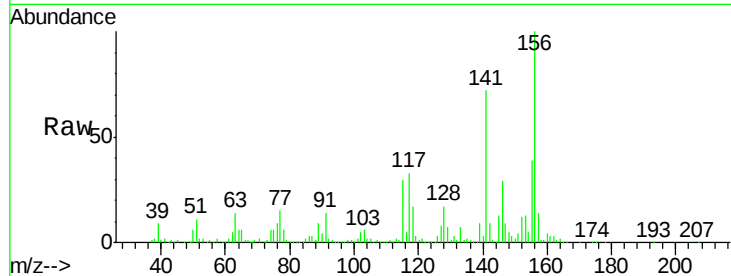
Tgt Ion: 65 Resp: 60953

Ion Ratio Lower Upper

65 100

92 30.6 51.8 77.6#

138 7.7 74.2 111.4#



#47

Acenaphthylene

Concen: 34.12 ng/ul

RT: 14.20 min Scan# 1890

Delta R.T. -0.00 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

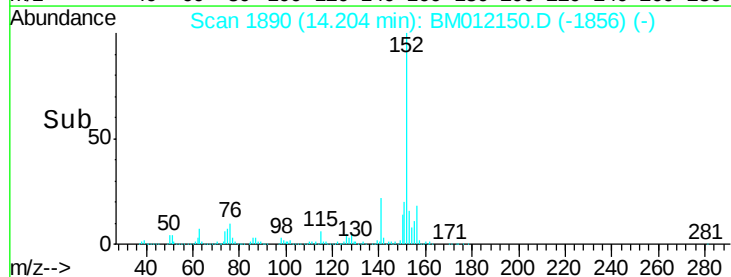
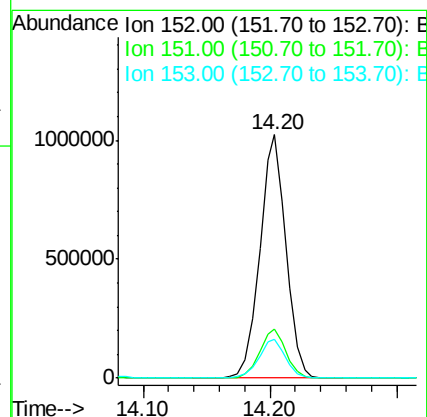
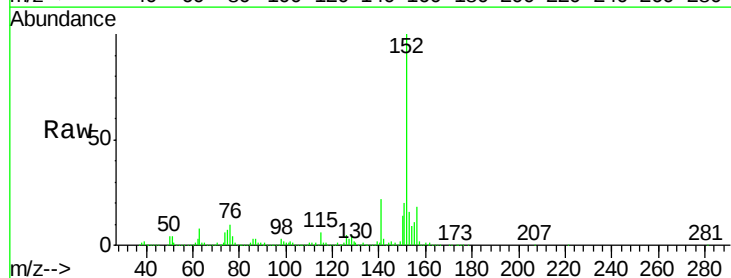
Tgt Ion: 152 Resp: 1460742

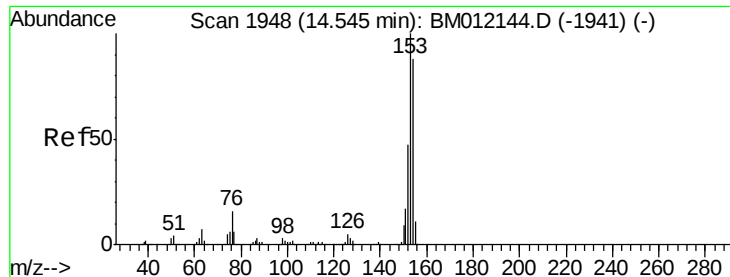
Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 15.9 10.2 15.4#





#49

Acenaphthene

Concen: 395.30 ng/ul

RT: 14.56 min Scan# 1950

Delta R.T. 0.01 min

Lab File: BM012150.D

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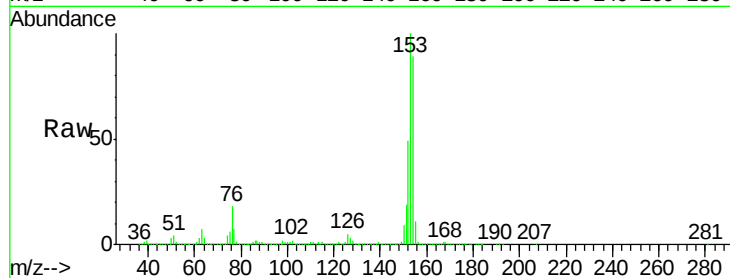
Tgt Ion:153 Resp:11399627

Ion Ratio Lower Upper

153 100

152 49.4 37.6 56.4

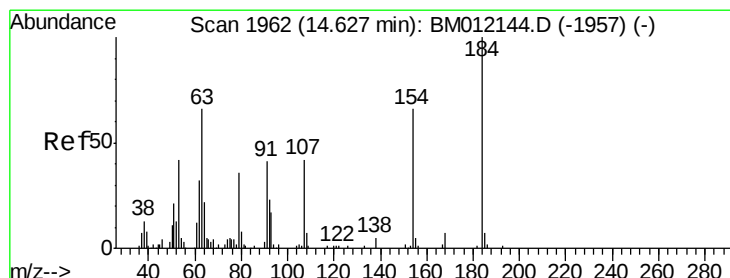
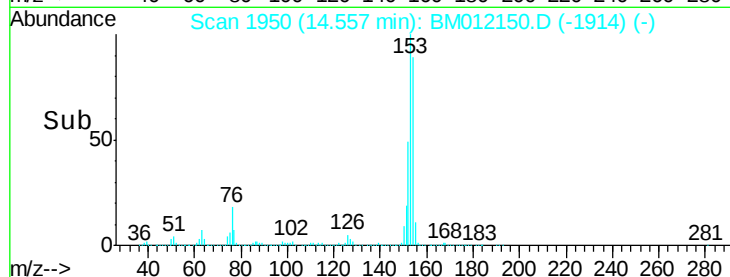
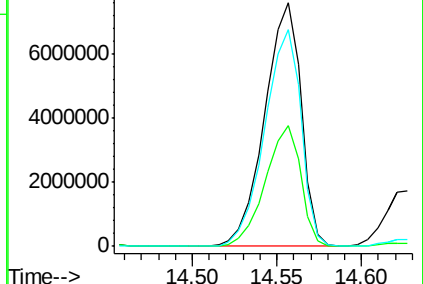
154 89.1 70.4 105.6



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#50

2,4-Dinitrophenol

Concen: 2.38 ng/ul

RT: 14.77 min Scan# 1987

Delta R.T. 0.15 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

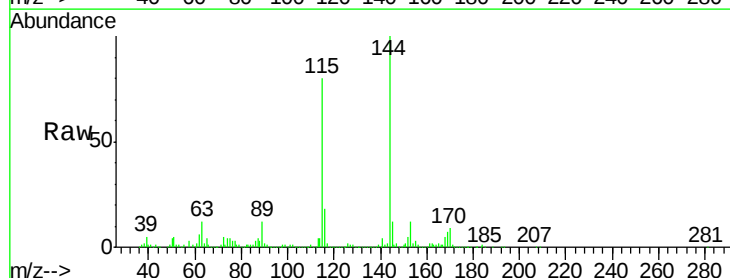
Tgt Ion:184 Resp: 9673

Ion Ratio Lower Upper

184 100

63 1122.1 50.1 75.1#

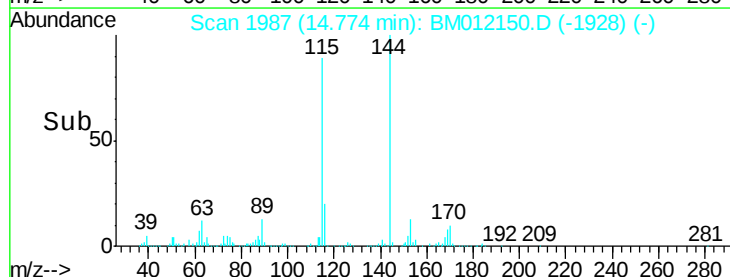
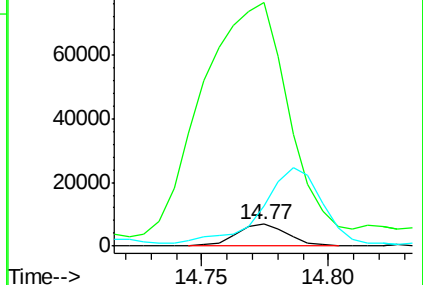
154 184.3 54.5 81.7#

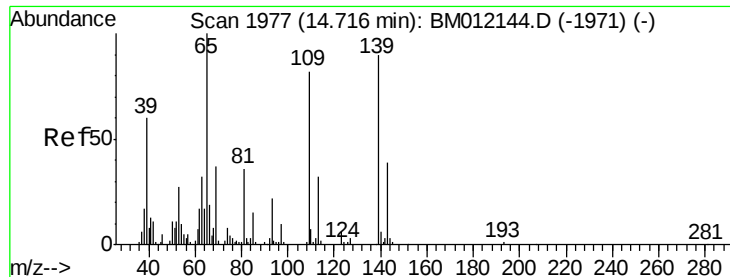


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 154.00 (153.70 to 154.70): E





#52

4-Nitrophenol

Concen: 1.20 ng/ul

RT: 14.67 min Scan# 1970

Delta R.T. -0.04 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

BE2N9

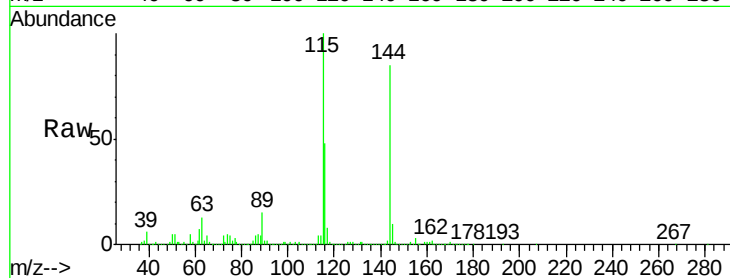
Tgt Ion:109 Resp: 5855

Ion Ratio Lower Upper

109 100

139 64.3 80.0 120.0#

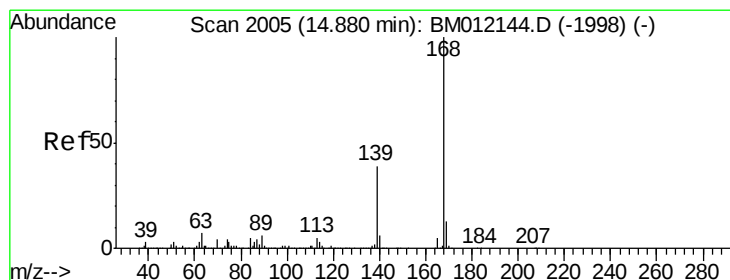
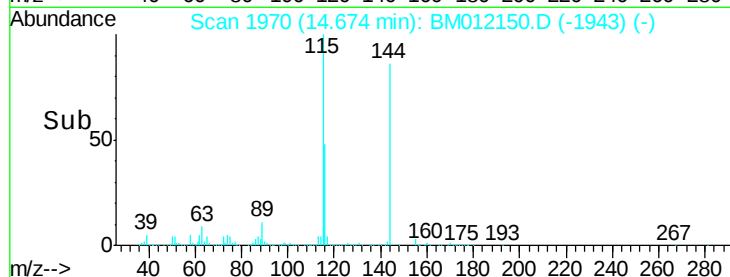
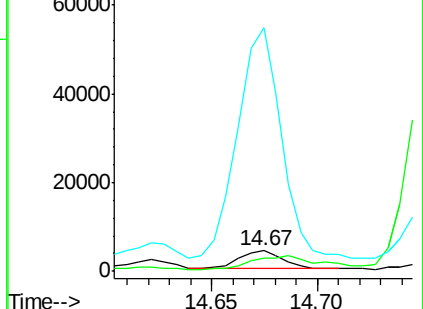
65 1192.5 120.0 180.0#



Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BM



#53

Dibenzofuran

Concen: 244.10 ng/ul

RT: 14.89 min Scan# 2006

Delta R.T. 0.01 min

Lab File: BM012150.D

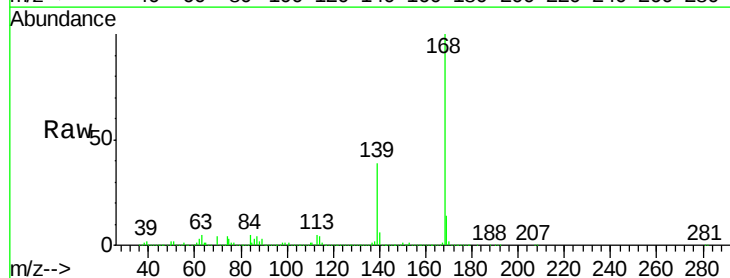
Acq: 14 Oct 2017 00:26

Tgt Ion:168 Resp:10136062

Ion Ratio Lower Upper

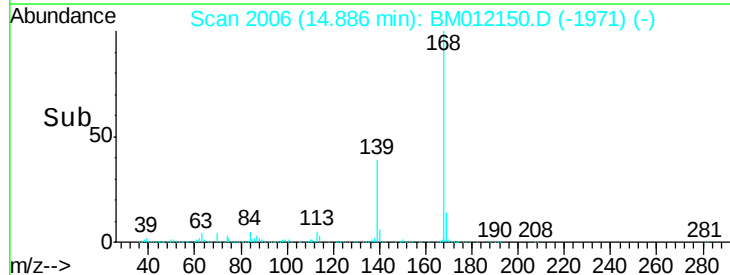
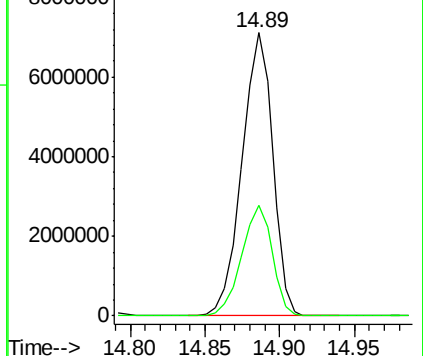
168 100

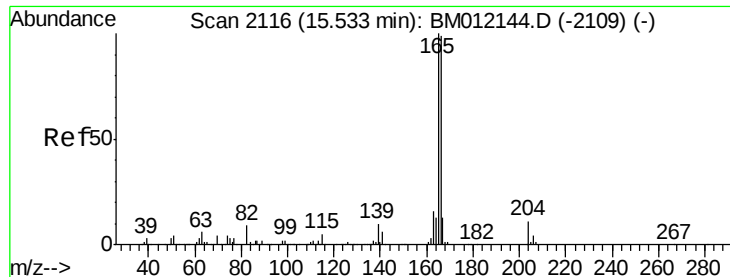
139 39.1 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 166.18 ng/ul

RT: 15.53 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

BE2N9

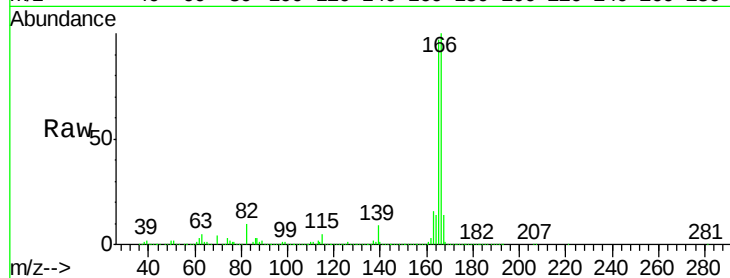
Tgt Ion:166 Resp: 5731079

Ion Ratio Lower Upper

166 100

165 96.7 77.9 116.9

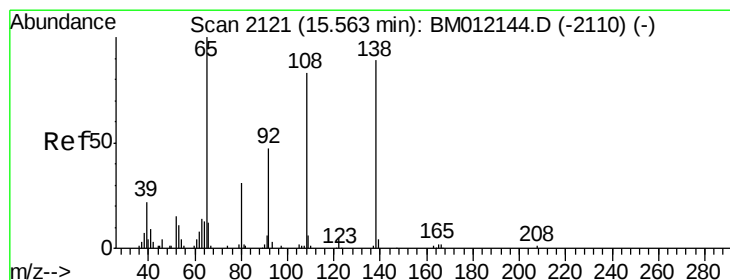
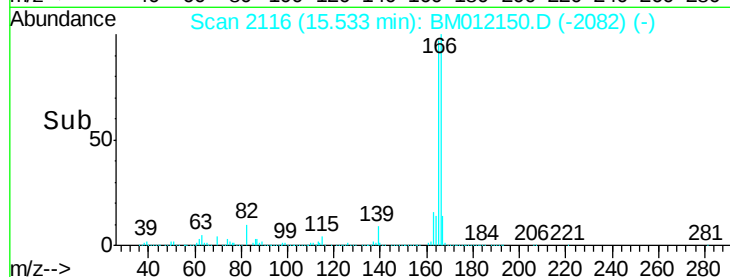
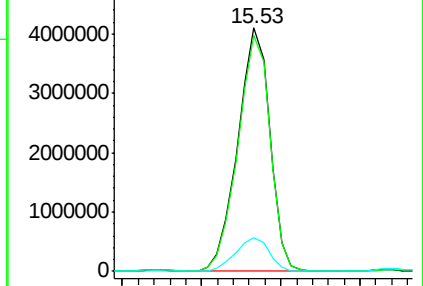
167 14.1 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#60

4-Nitroaniline

Concen: 10.23 ng/ul

RT: 15.53 min Scan# 2116

Delta R.T. -0.03 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

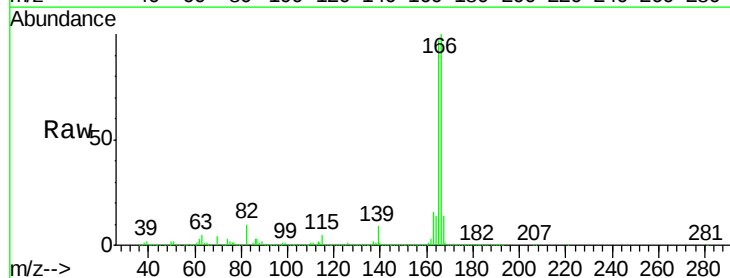
Tgt Ion:138 Resp: 70412

Ion Ratio Lower Upper

138 100

92 4.9 40.0 60.0#

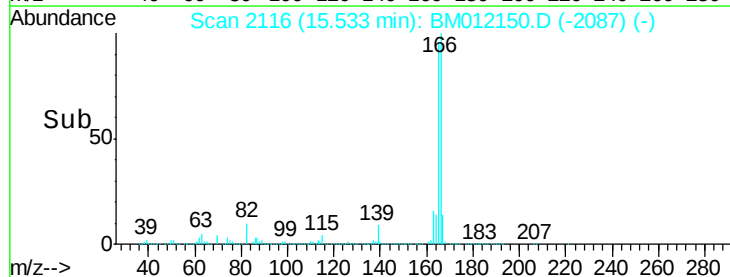
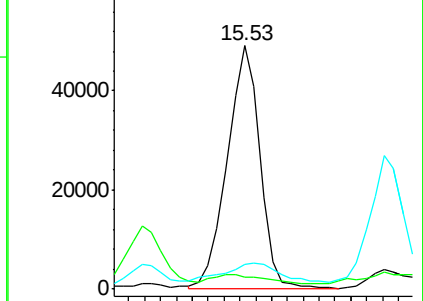
108 10.0 80.0 120.0#

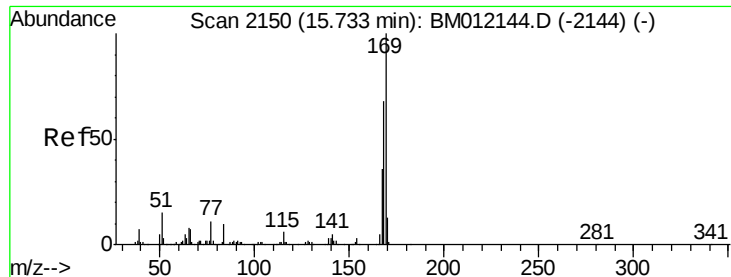


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM0

Ion 108.00 (107.70 to 108.70): E





#64

N-Nitrosodiphenylamine

Concen: 1.11 ng/ul

RT: 15.74 min Scan# 2151

Delta R.T. 0.01 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

BE2N9

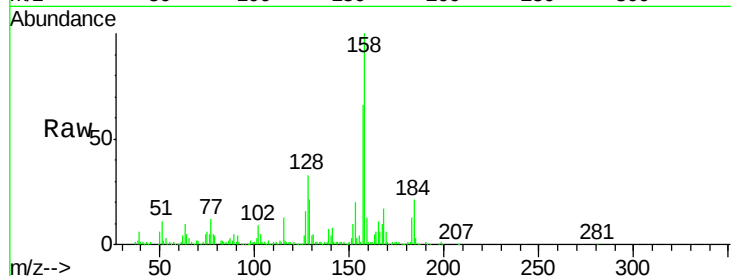
Tgt Ion:169 Resp: 28832

Ion Ratio Lower Upper

169 100

168 282.2 54.0 81.0#

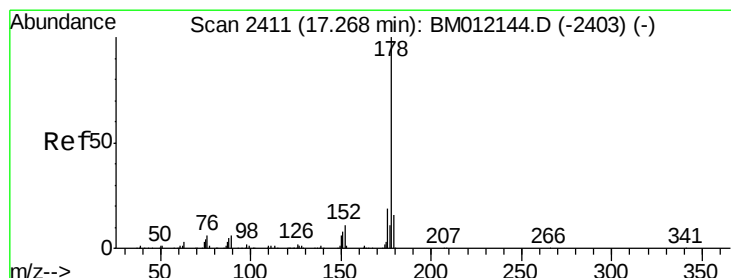
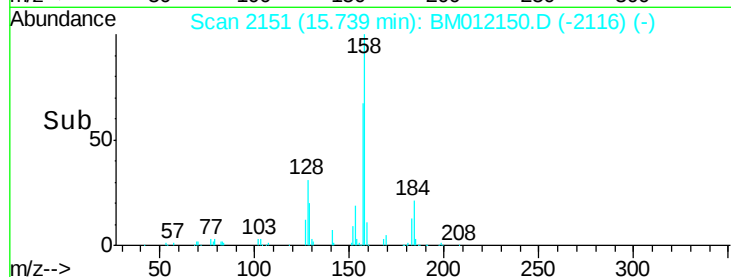
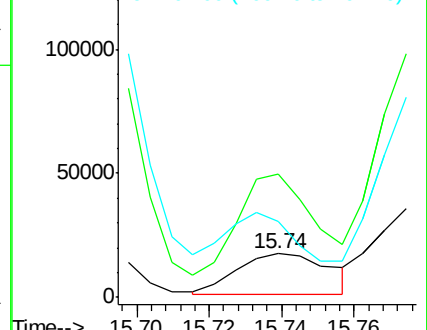
167 173.0 29.1 43.7#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 165.08 ng/ul

RT: 17.27 min Scan# 2412

Delta R.T. 0.01 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

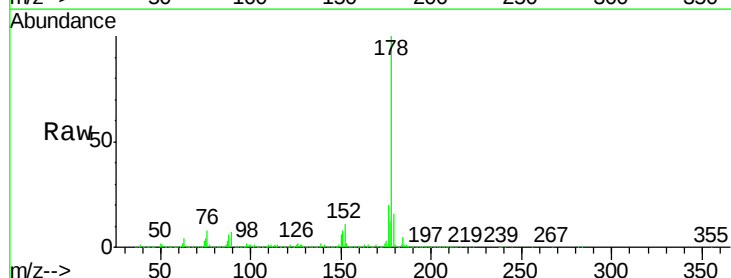
Tgt Ion:178 Resp: 7776208

Ion Ratio Lower Upper

178 100

179 15.7 12.6 19.0

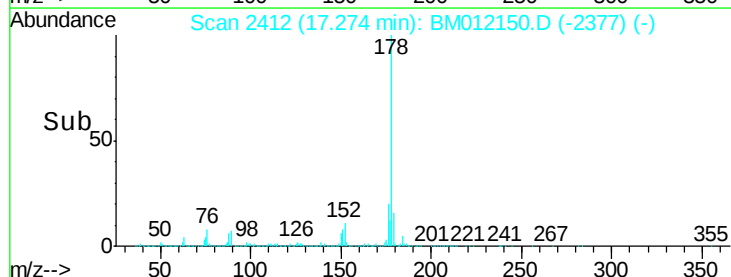
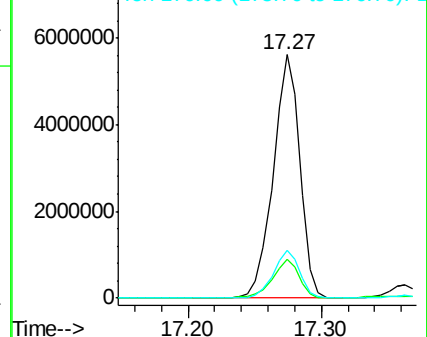
176 19.6 14.9 22.3

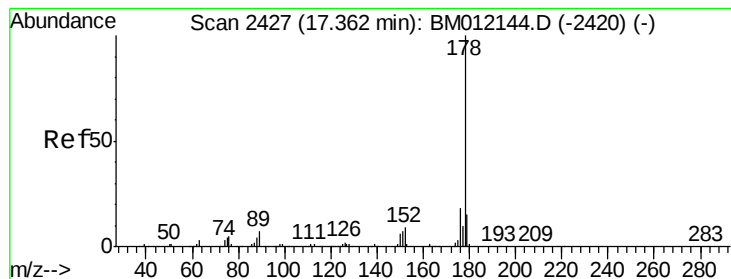


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 8.30 ng/ul

RT: 17.36 min Scan# 2427

Delta R.T. -0.00 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

Instrument :

BNA\_M

ClientSampleId :

BE2N9

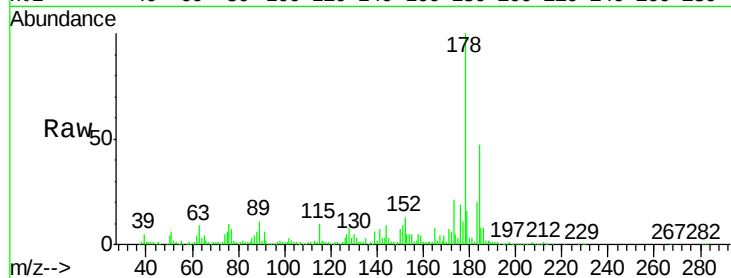
Tgt Ion:178 Resp: 404841

Ion Ratio Lower Upper

178 100

179 15.8 11.7 17.5

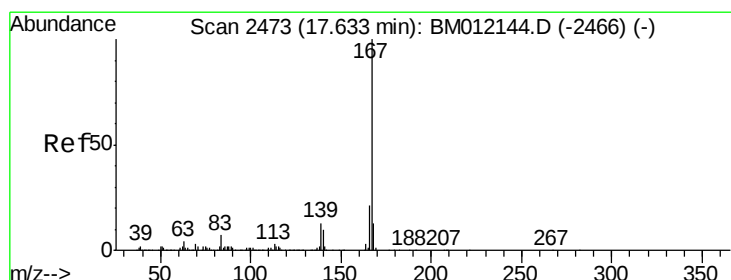
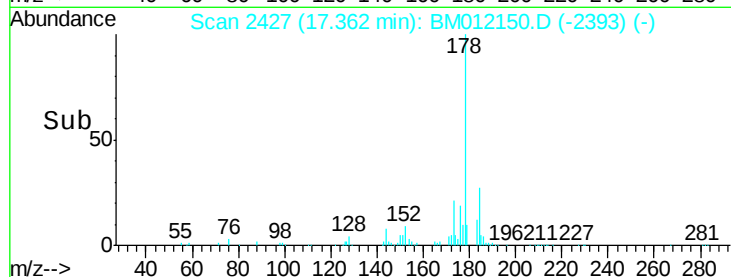
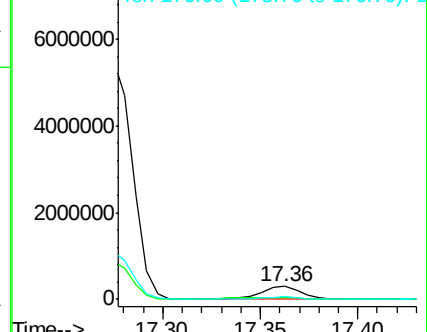
176 18.9 14.6 21.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#72

Carbazole

Concen: 285.99 ng/ul

RT: 17.65 min Scan# 2476

Delta R.T. 0.02 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

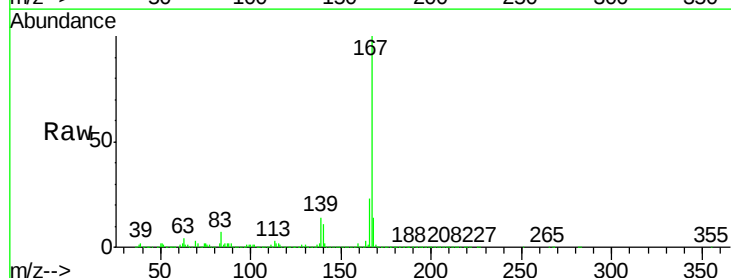
Tgt Ion:167 Resp:11803563

Ion Ratio Lower Upper

167 100

166 23.2 17.1 25.7

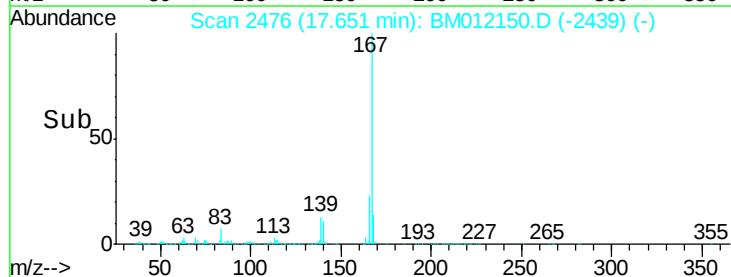
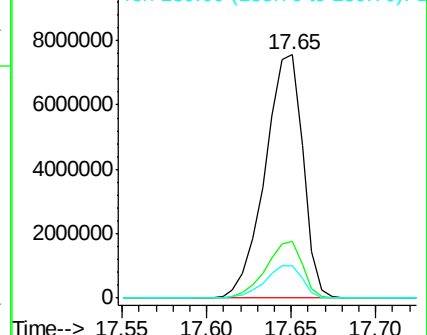
139 13.5 10.0 15.0

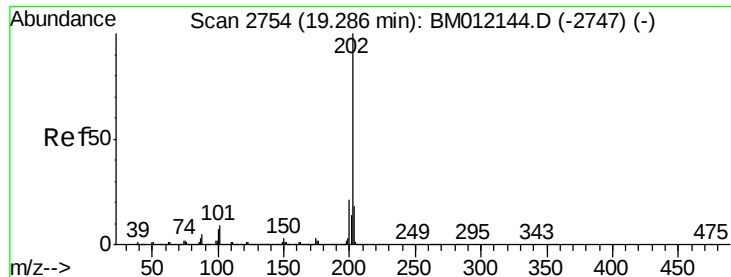


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 10.49 ng/ul

RT: 19.29 min Scan# 2754

Delta R.T. -0.00 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

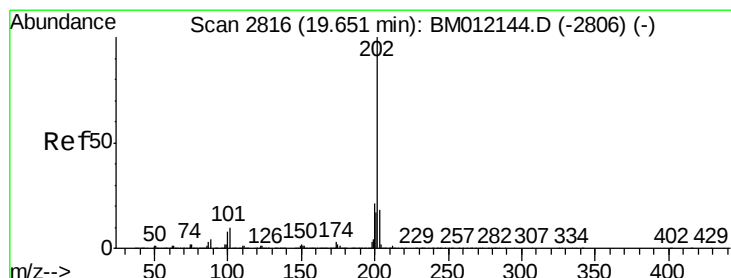
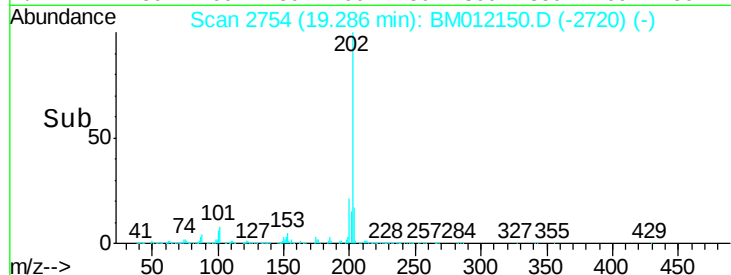
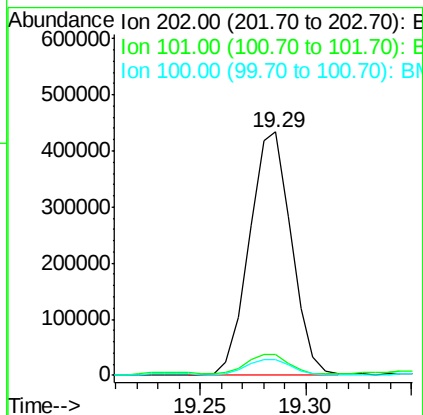
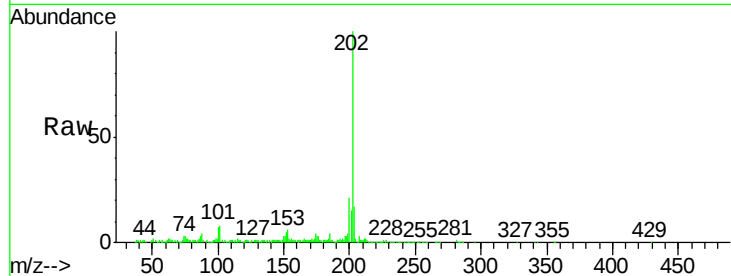
Instrument :

BNA\_M

ClientSampleId :

BE2N9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 596596 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.4   | 4.6   | 7.0#   |
| 100       | 6.7   | 3.4   | 5.2#   |



#77

Pyrene

Concen: 5.88 ng/ul

RT: 19.64 min Scan# 2815

Delta R.T. -0.01 min

Lab File: BM012150.D

Acq: 14 Oct 2017 00:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 307618 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.0  | 5.1   | 7.7#   |
| 100       | 8.2   | 4.9   | 7.3#   |

