

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111318\  
 Data File : BE098215.D  
 Acq On : 13 Nov 2018 19:06  
 Operator : SJ/JU  
 Sample : J5864-02MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OLDMANS-2MS

Quant Time: Nov 14 00:07:30 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 12 13:32:15 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1050     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.67 | 136  | 4447     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 2897     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 8249     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 9559     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.01 | 264  | 9444     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.45  | 112 | 1441  | 0.49 | ng | 0.00  |
| 5) Phenol-d6                | 7.03  | 99  | 2174  | 0.46 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 9.02  | 82  | 2039  | 0.46 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 3499  | 0.45 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330 | 689   | 0.55 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 5007  | 0.41 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.31 | 212 | 50005 | 0.49 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.91 | 244 | 9183  | 0.42 | ng | 0.00  |

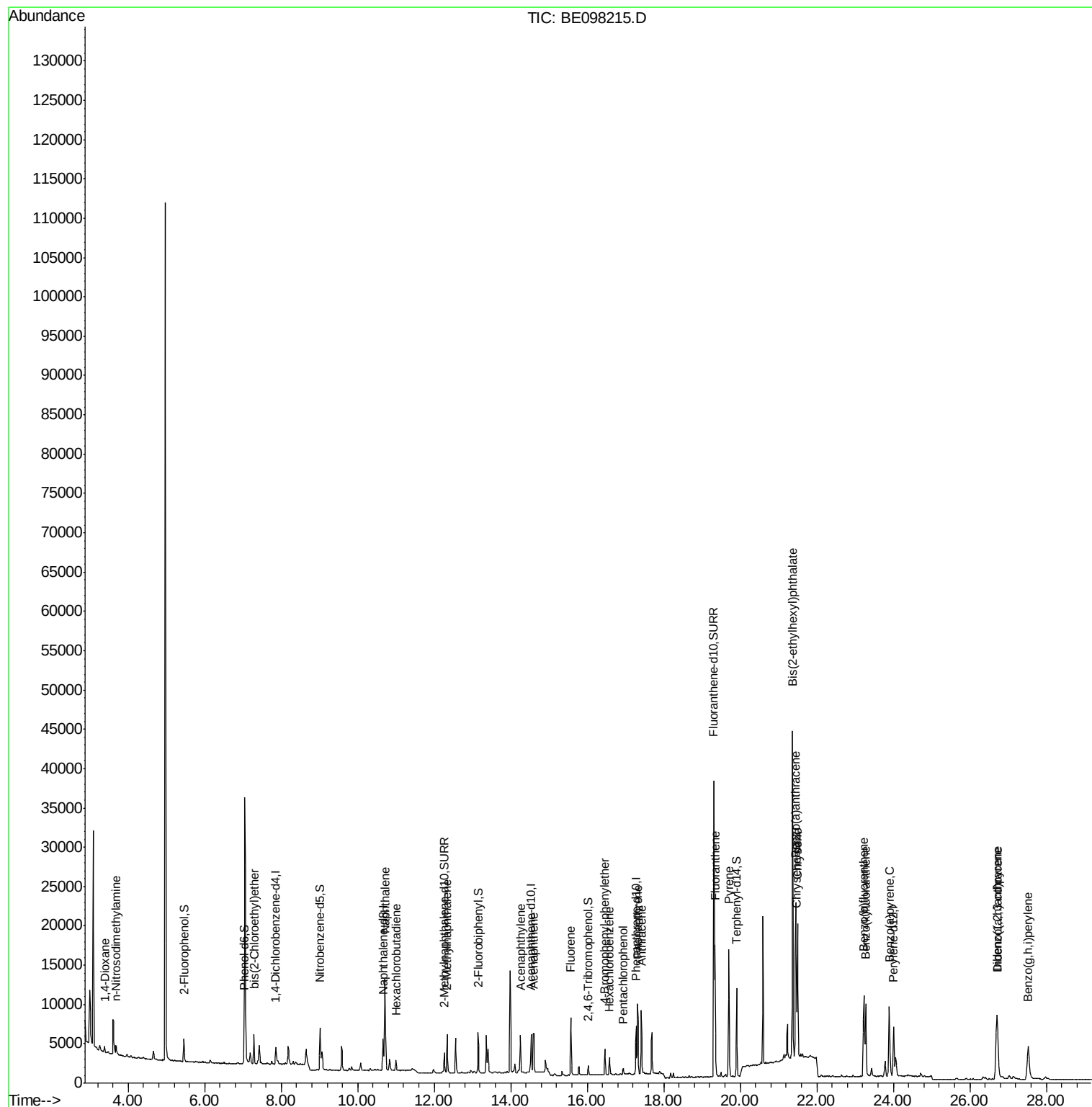
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.38  | 88  | 411   | 0.259  | ng | # 47 |
| 3) n-Nitrosodimethylamine      | 3.68  | 42  | 842   | 0.409  | ng | # 84 |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93  | 1352  | 0.352  | ng | 93   |
| 9) Naphthalene                 | 10.72 | 128 | 19074 | 0.422  | ng | 99   |
| 10) Hexachlorobutadiene        | 11.00 | 225 | 939   | 0.334  | ng | 98   |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 3211  | 0.409  | ng | 99   |
| 16) Acenaphthylene             | 14.26 | 152 | 6081  | 0.458  | ng | 99   |
| 17) Acenaphthene               | 14.60 | 154 | 3137  | 0.387  | ng | 98   |
| 18) Fluorene                   | 15.57 | 166 | 4658  | 0.449  | ng | 98   |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248 | 1762  | 0.351  | ng | 95   |
| 21) Hexachlorobenzene          | 16.58 | 284 | 1713  | 0.328  | ng | 98   |
| 22) Pentachlorophenol          | 16.94 | 266 | 509   | 0.516  | ng | 91   |
| 23) Phenanthrene               | 17.32 | 178 | 9930  | 0.483  | ng | 98   |
| 24) Anthracene                 | 17.41 | 178 | 8447  | 0.441  | ng | 99   |
| 26) Fluoranthene               | 19.34 | 202 | 15327 | 0.602  | ng | 99   |
| 28) Pyrene                     | 19.70 | 202 | 15237 | 0.579  | ng | 98   |
| 30) Benzo(a)anthracene         | 21.45 | 228 | 16403 | 0.604  | ng | 95   |
| 31) Chrysene                   | 21.50 | 228 | 14563 | 0.528  | ng | 99   |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 44345 | 0.786  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.70 | 276 | 14054 | 0.556  | ng | # 92 |
| 35) Benzo(b)fluoranthene       | 23.23 | 252 | 16062 | 0.600  | ng | 99   |
| 36) Benzo(k)fluoranthene       | 23.28 | 252 | 13118 | 0.464  | ng | 98   |
| 37) Benzo(a)pyrene             | 23.89 | 252 | 14774 | 0.575  | ng | 98   |
| 38) Dibenzo(a,h)anthracene     | 26.72 | 278 | 9802  | 0.448  | ng | # 95 |
| 39) Benzo(g,h,i)perylene       | 27.53 | 276 | 11999 | 0.525  | ng | 99   |

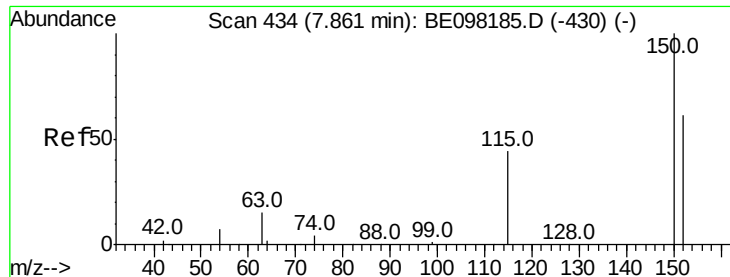
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 12 13:32:15 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

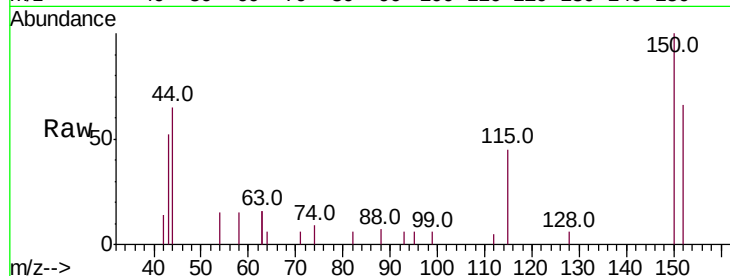
Tot Ion:152 Resp: 1050

Ion Ratio Lower Upper

152 100

150 150.8 127.5 191.3

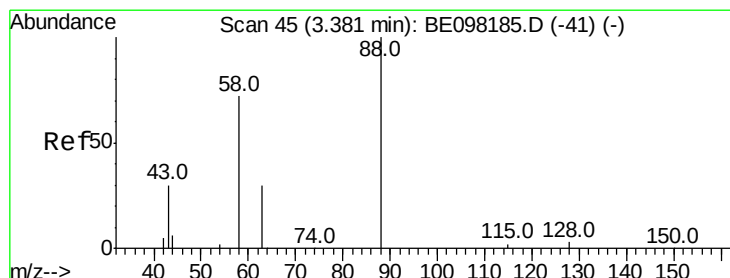
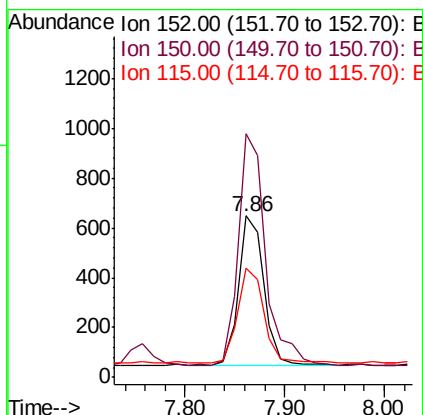
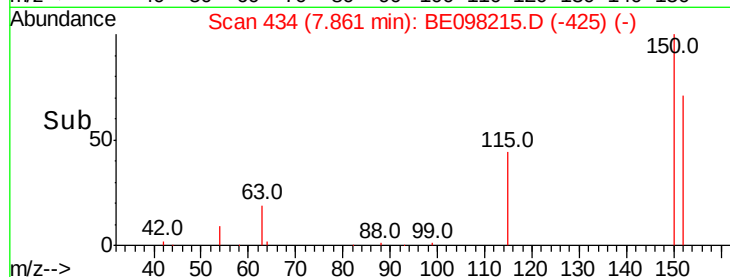
115 67.4 60.3 90.5



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



#2

1,4-Dioxane

Concen: 0.259 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

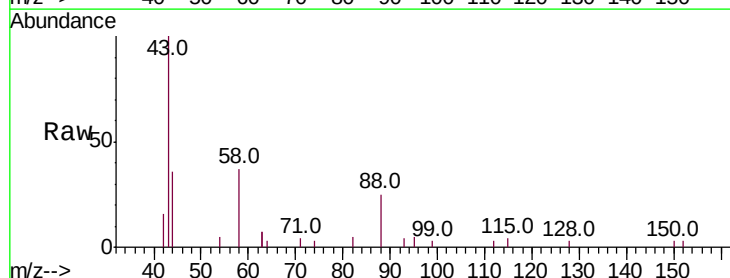
Tgt Ion: 88 Resp: 411

Ion Ratio Lower Upper

88 100

58 114.6 79.0 118.4

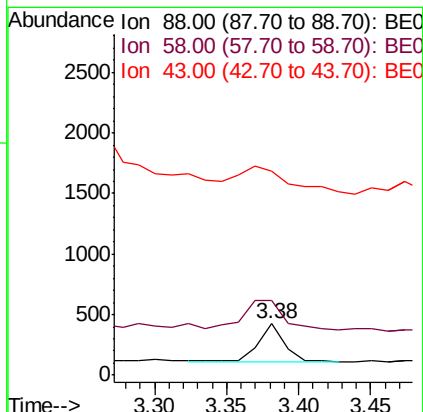
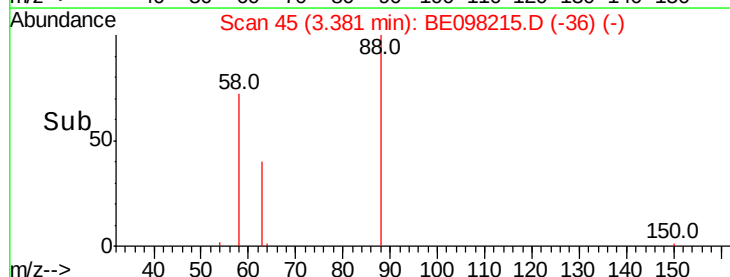
43 133.8 38.1 57.1#

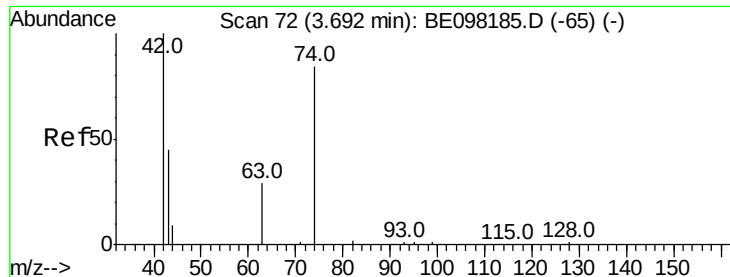


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.409 ng

RT: 3.68 min Scan# 71

Delta R.T. -0.01 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

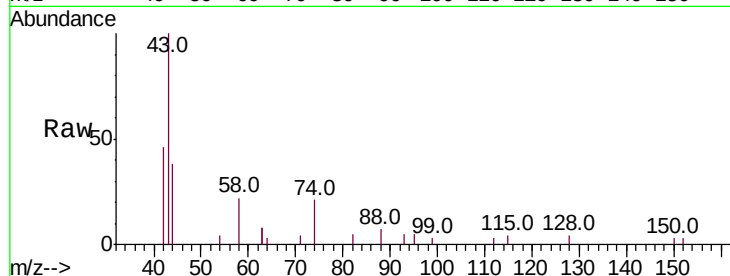
Tot Ion: 42 Resp: 842

Ion Ratio Lower Upper

42 100

74 85.7 61.7 92.5

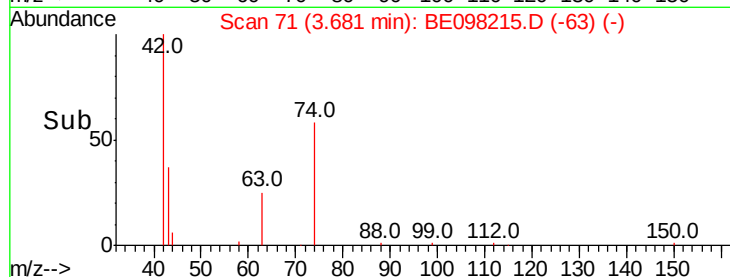
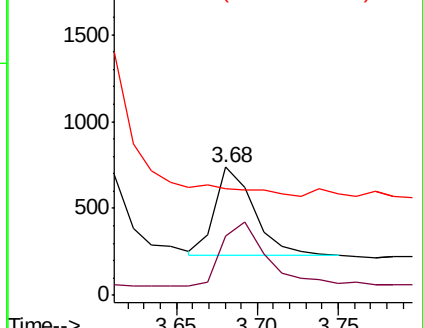
44 0.0 14.0 21.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.486 ng

RT: 5.45 min Scan# 225

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

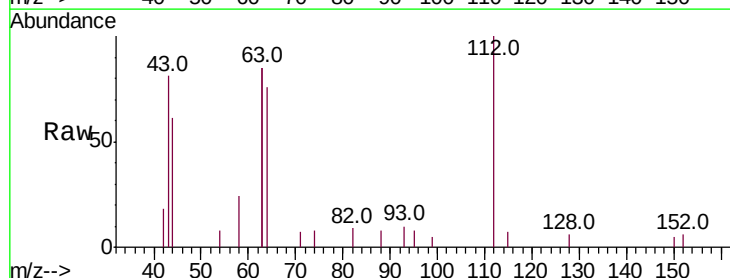
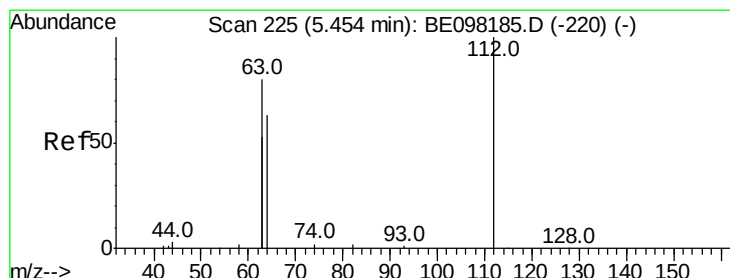
Tgt Ion: 112 Resp: 1441

Ion Ratio Lower Upper

112 100

64 75.5 61.7 92.5

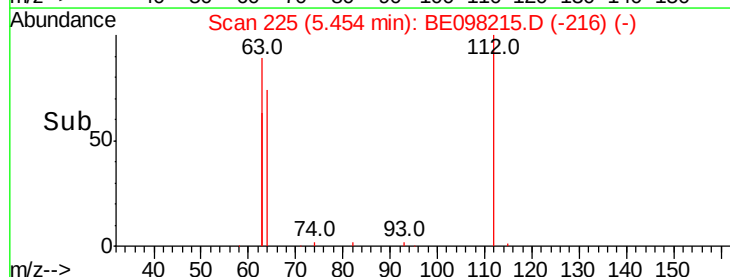
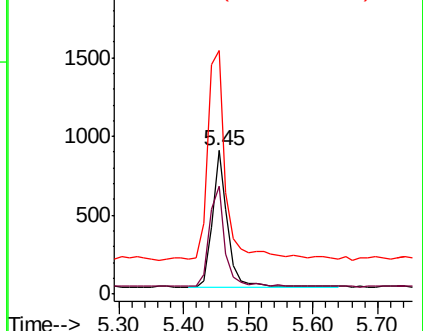
63 172.2 136.2 204.2

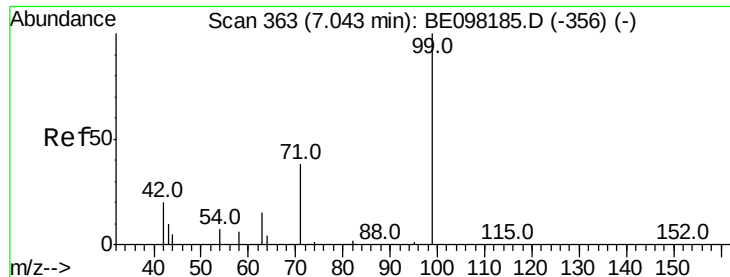


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.457 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

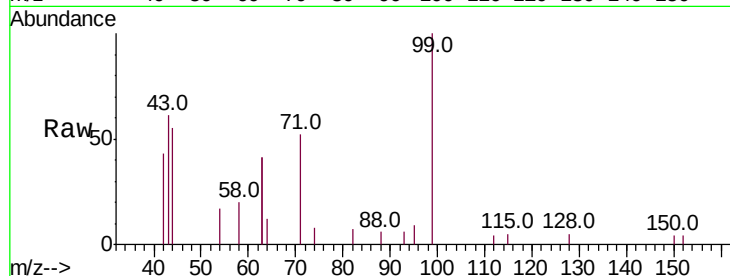
Tot Ion: 99 Resp: 2174

Ion Ratio Lower Upper

99 100

42 0.0 27.1 40.7#

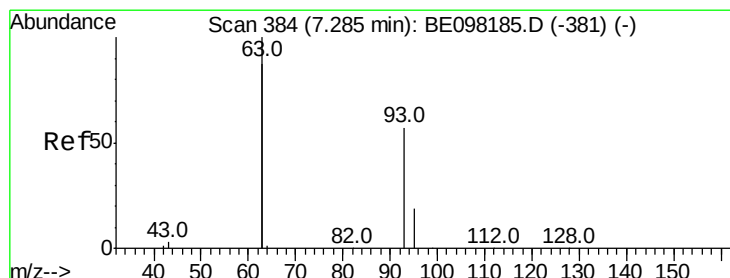
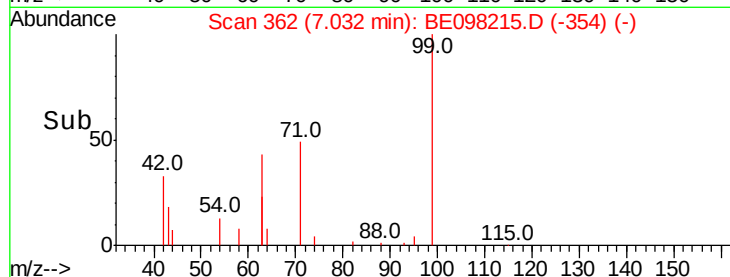
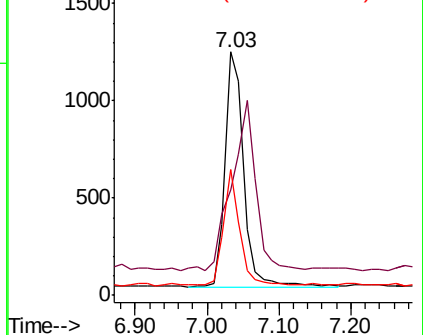
71 42.0 37.0 55.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.352 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

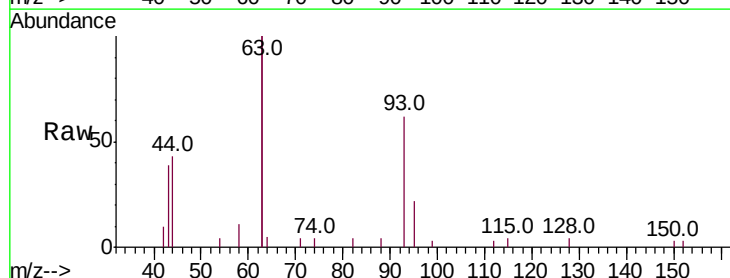
Tgt Ion: 93 Resp: 1352

Ion Ratio Lower Upper

93 100

63 326.4 272.6 409.0

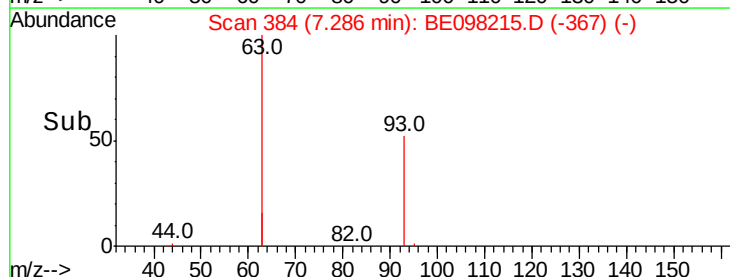
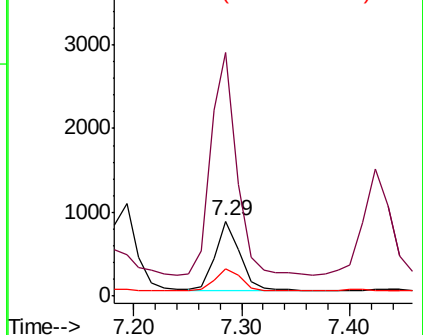
95 30.7 27.1 40.7

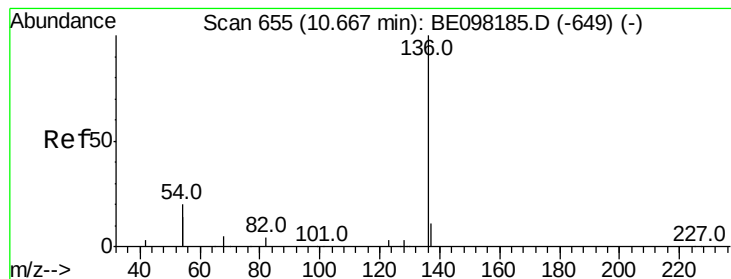


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

Tot Ion:136 Resp: 4447

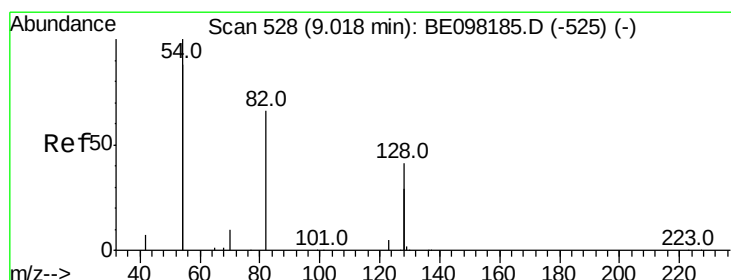
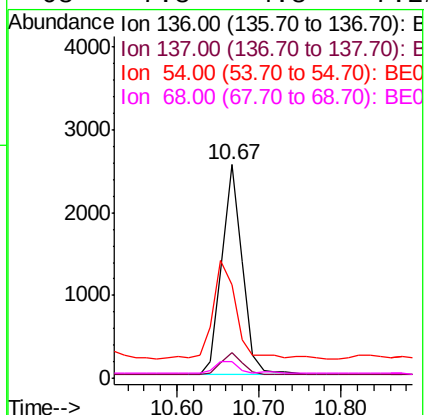
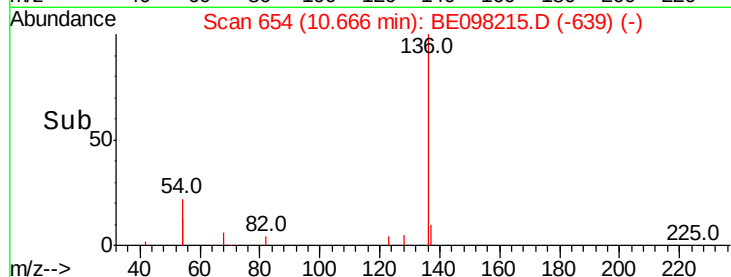
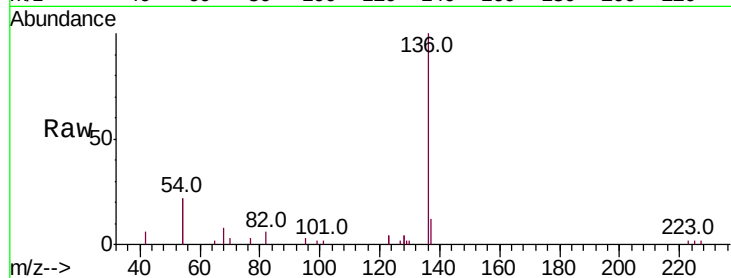
Ion Ratio Lower Upper

136 100

137 12.0 9.5 14.3

54 43.7 31.3 46.9

68 7.8 4.8 7.2#



#8

Nitrobenzene-d5

Concen: 0.459 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

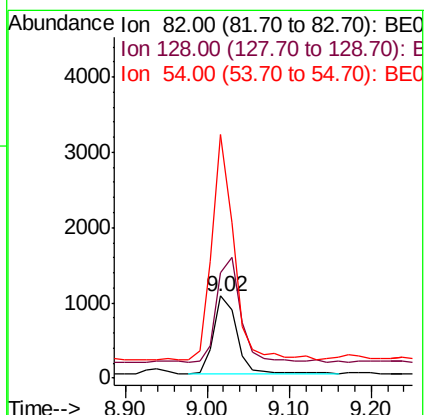
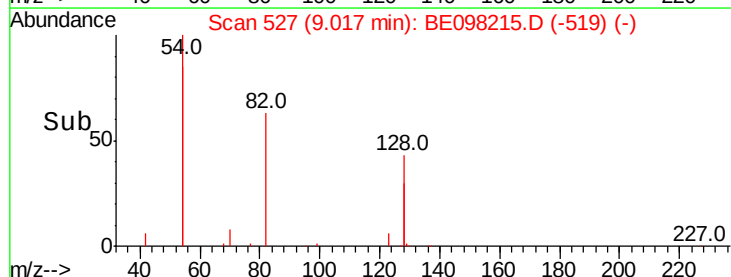
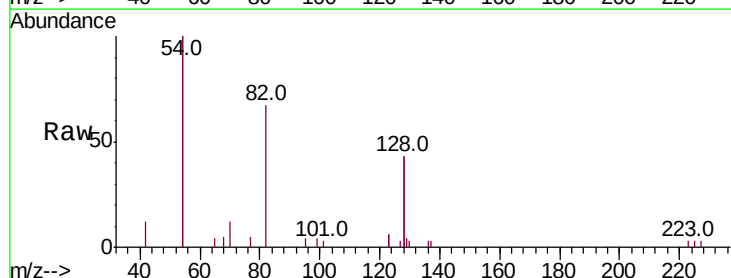
Tgt Ion: 82 Resp: 2039

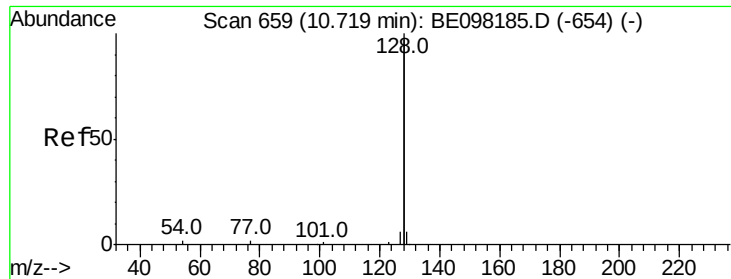
Ion Ratio Lower Upper

82 100

128 127.9 96.1 144.1

54 296.9 232.0 348.0





#9

Naphthalene

Concen: 0.422 ng

RT: 10.72 min Scan# 658

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

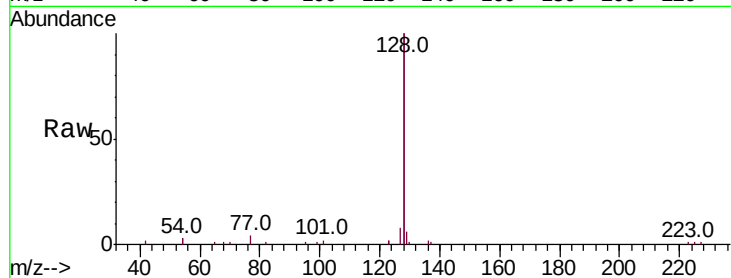
Tot Ion:128 Resp: 19074

Ion Ratio Lower Upper

128 100

129 3.2 2.6 4.0

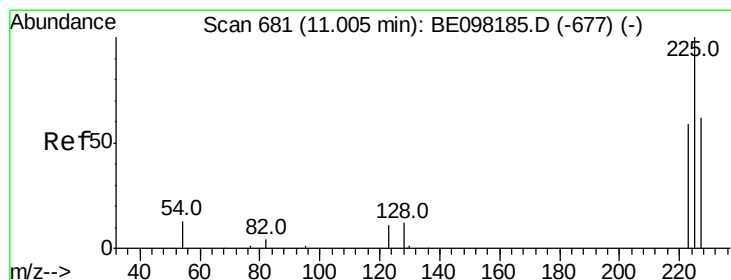
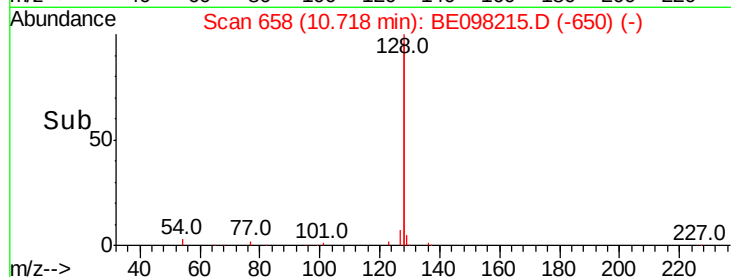
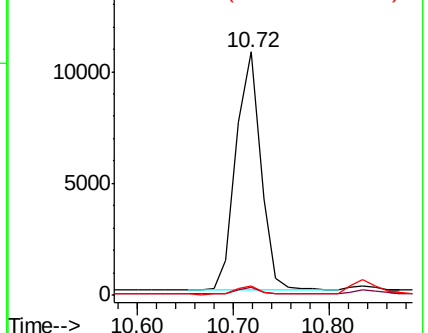
127 3.8 2.8 4.2



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



#10

Hexachlorobutadiene

Concen: 0.334 ng

RT: 11.00 min Scan# 680

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

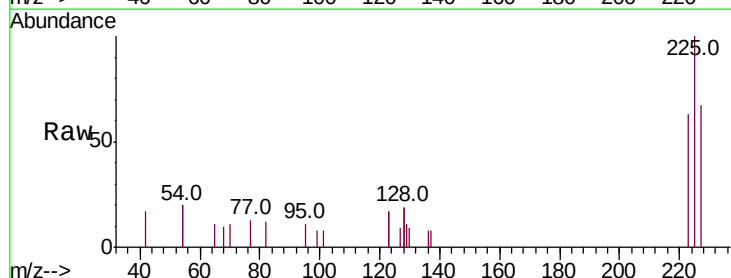
Tgt Ion:225 Resp: 939

Ion Ratio Lower Upper

225 100

223 62.6 50.5 75.7

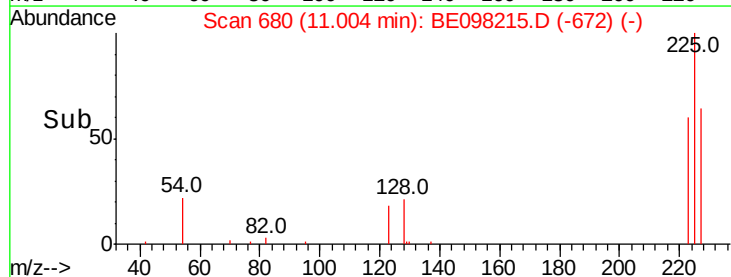
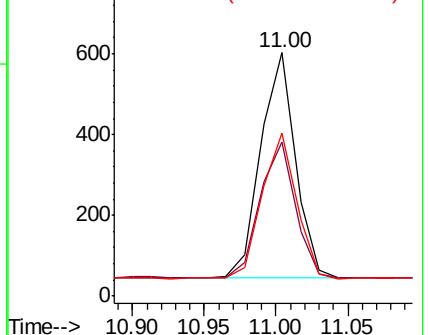
227 65.0 50.3 75.5

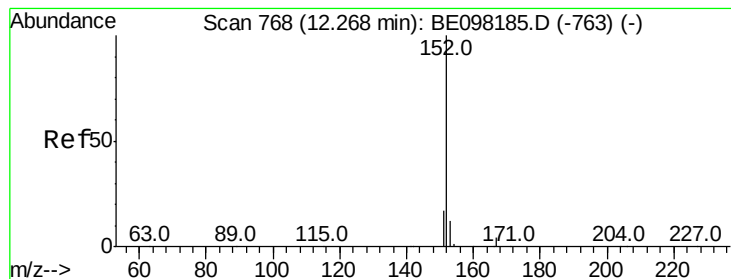


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.448 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

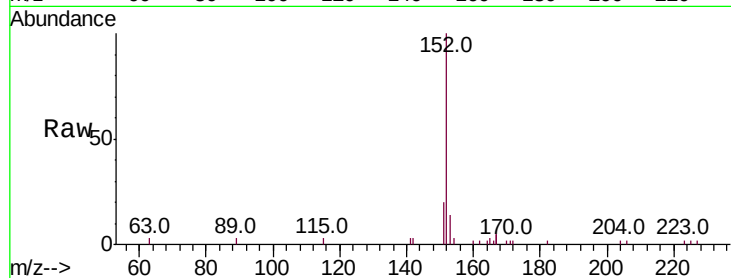
OLDMANS-2MS

Tot Ion:152 Resp: 3499

Ion Ratio Lower Upper

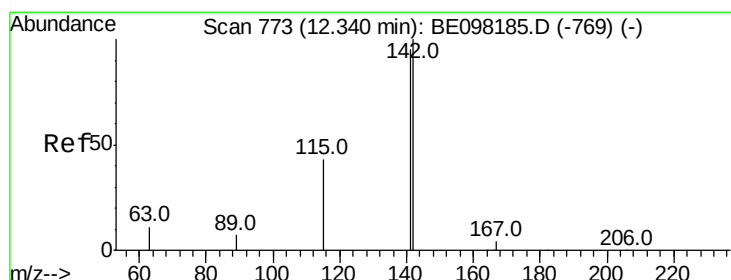
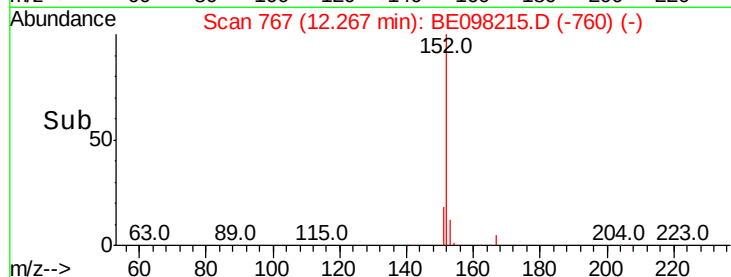
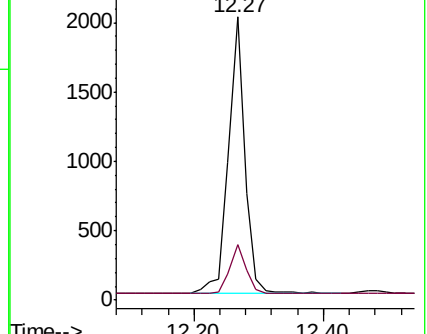
152 100

151 18.1 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.409 ng

RT: 12.34 min Scan# 772

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

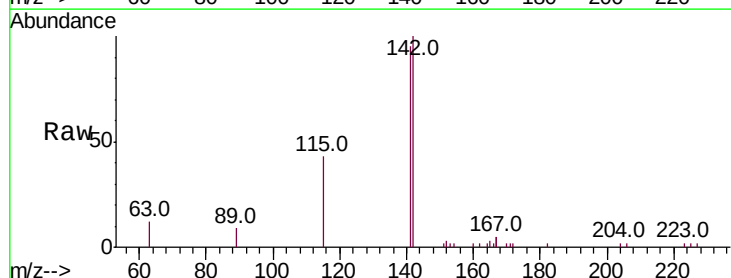
Tgt Ion:142 Resp: 3211

Ion Ratio Lower Upper

142 100

141 94.9 76.3 114.5

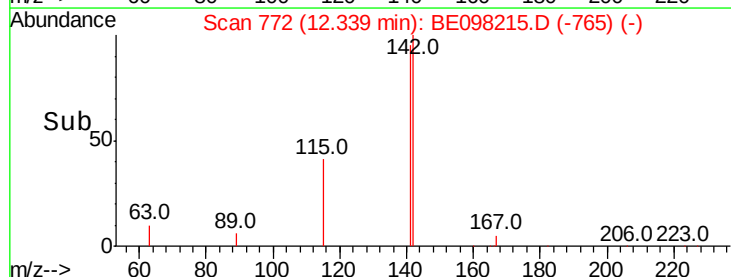
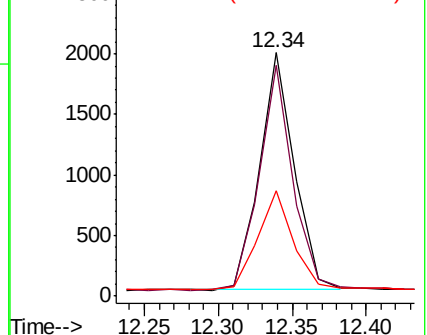
115 43.0 35.8 53.8



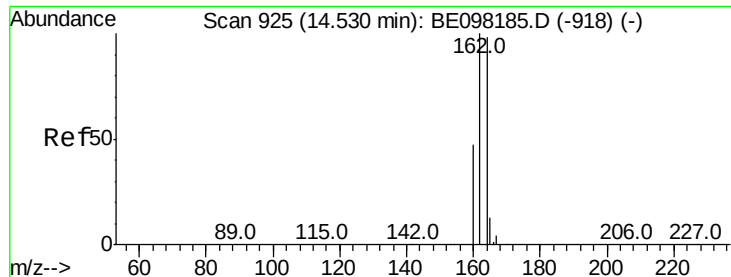
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

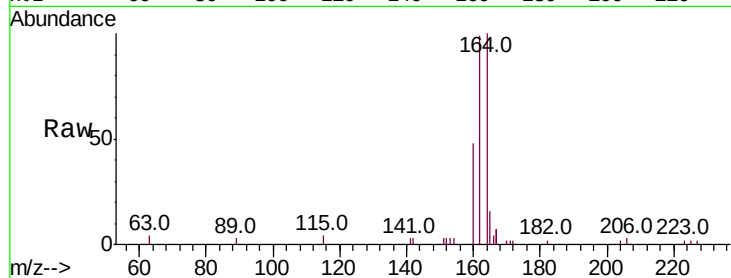
Tot Ion:164 Resp: 2897

Ion Ratio Lower Upper

164 100

162 98.8 81.8 122.6

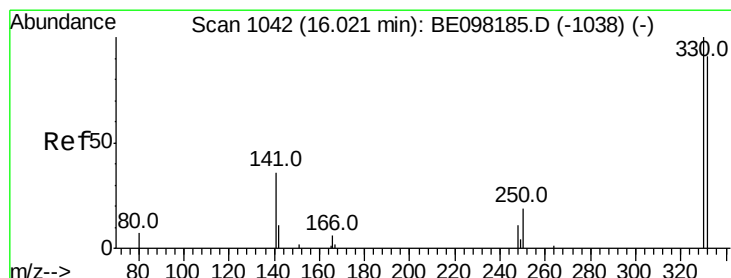
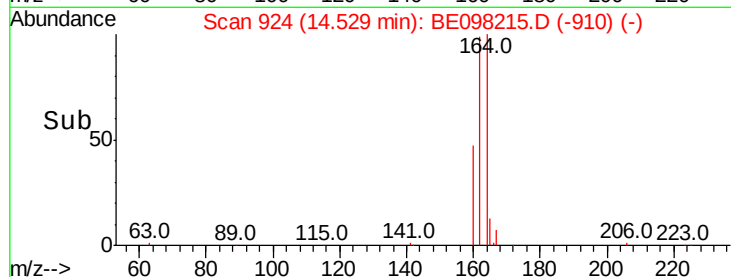
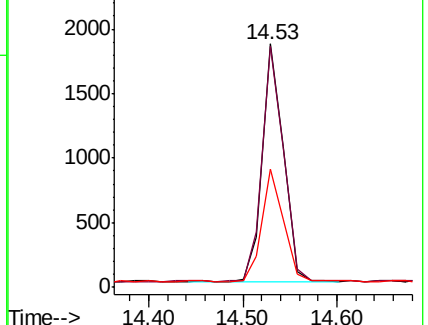
160 48.4 39.4 59.0



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



#14

2,4,6-Tribromophenol

Concen: 0.545 ng

RT: 16.02 min Scan# 1041

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

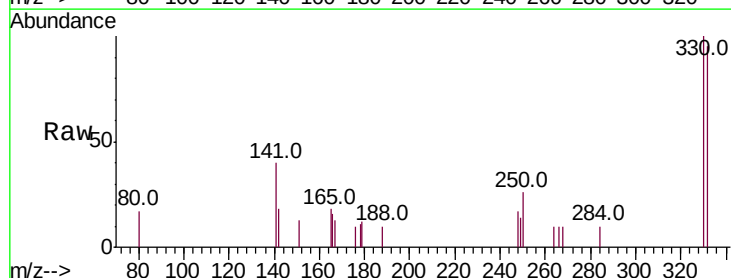
Tgt Ion:330 Resp: 689

Ion Ratio Lower Upper

330 100

332 95.9 77.7 116.5

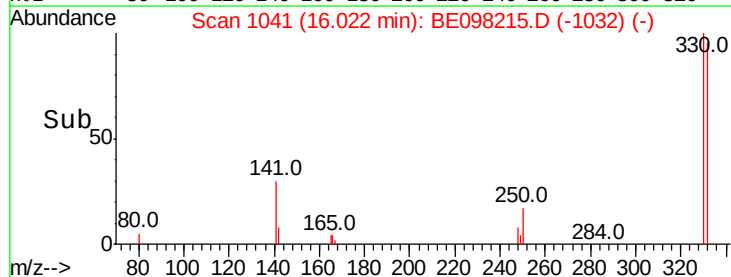
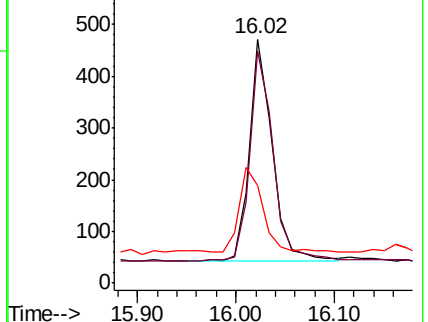
141 40.1 33.6 50.4

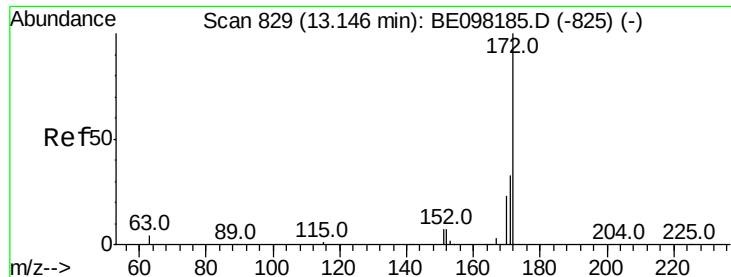


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

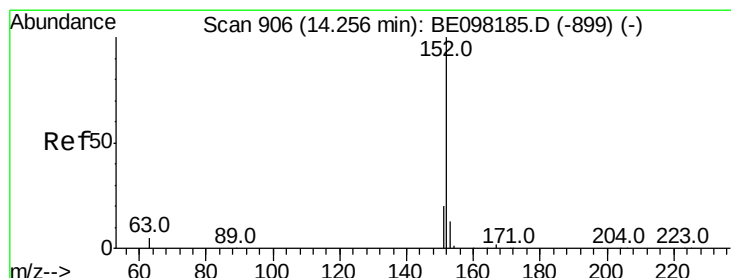
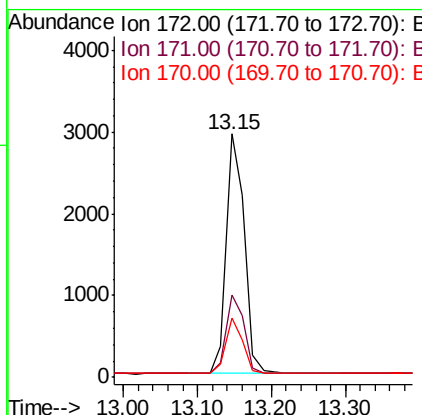
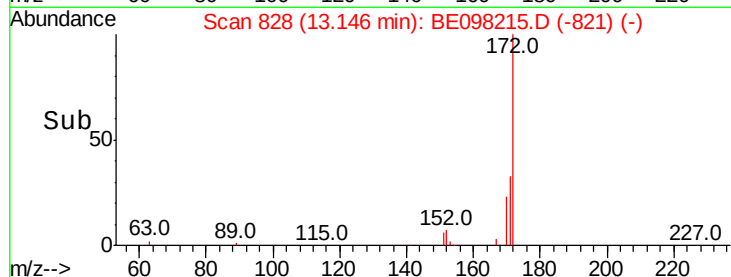
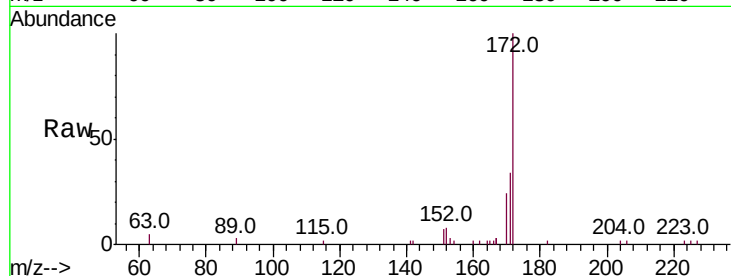




#15  
2-Fluorobiphenyl  
Concen: 0.413 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098215.D  
Acq: 13 Nov 2018 19:06

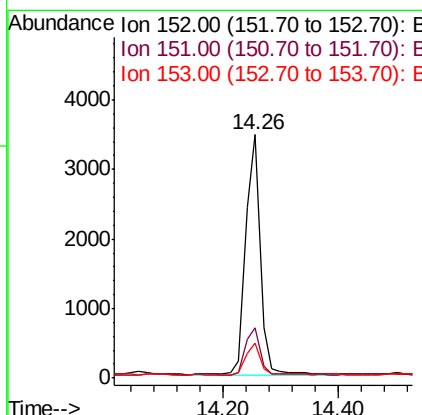
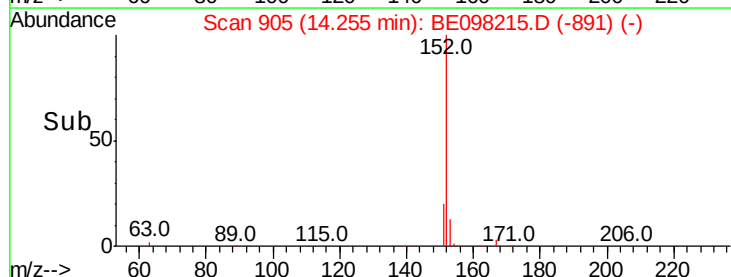
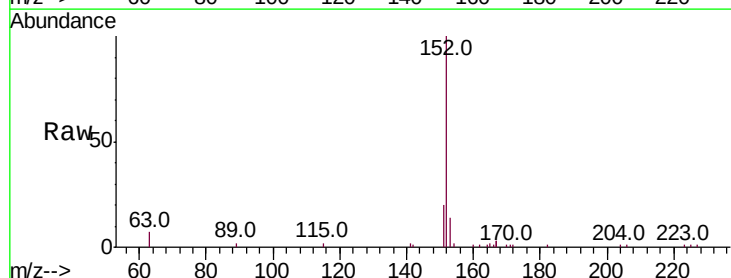
Instrument :  
BNA\_E  
ClientSampleId :  
OLDMANS-2MS

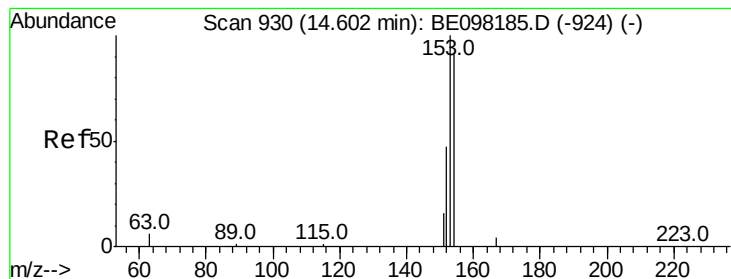
Tot Ion:172 Resp: 5007  
Ion Ratio Lower Upper  
172 100  
171 34.0 27.3 40.9  
170 24.4 19.4 29.0



#16  
Acenaphthylene  
Concen: 0.458 ng  
RT: 14.26 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BE098215.D  
Acq: 13 Nov 2018 19:06

Tgt Ion:152 Resp: 6081  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.4 24.6  
153 13.0 10.6 15.8





#17

Acenaphthene

Concen: 0.387 ng

RT: 14.60 min Scan# 929

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

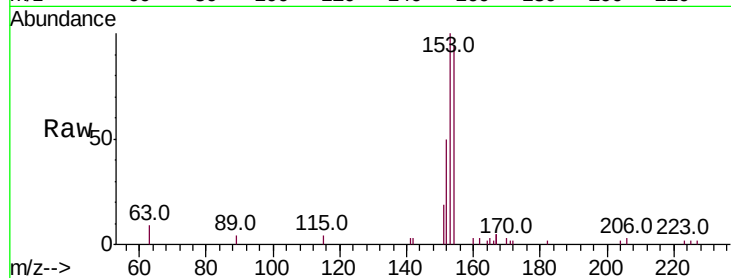
Tot Ion:154 Resp: 3137

Ion Ratio Lower Upper

154 100

153 112.1 92.1 138.1

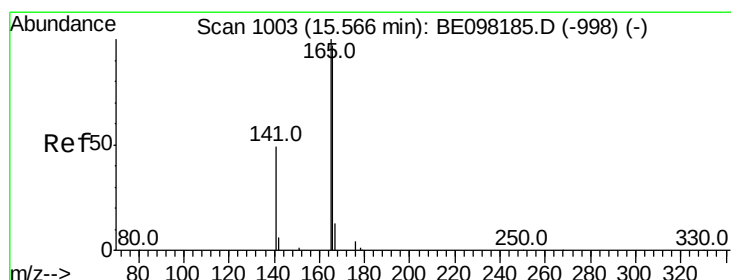
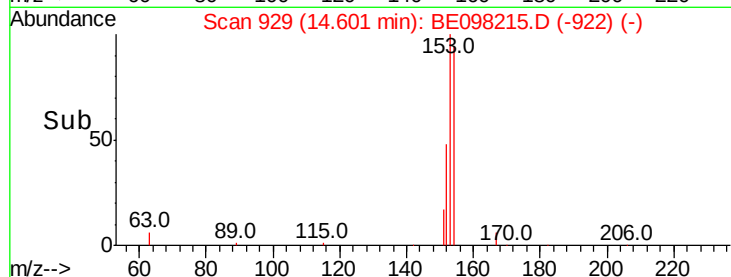
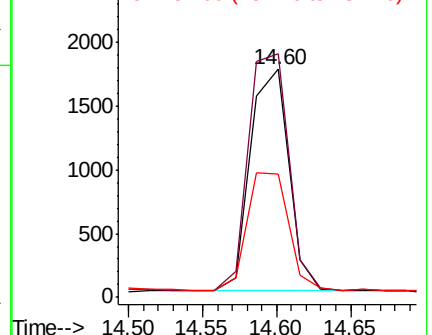
152 57.0 46.2 69.2



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



#18

Fluorene

Concen: 0.449 ng

RT: 15.57 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

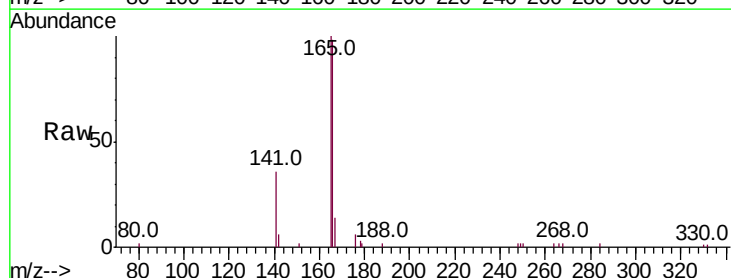
Tgt Ion:166 Resp: 4658

Ion Ratio Lower Upper

166 100

165 98.2 80.1 120.1

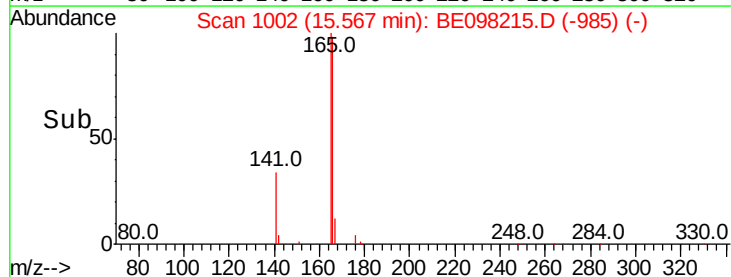
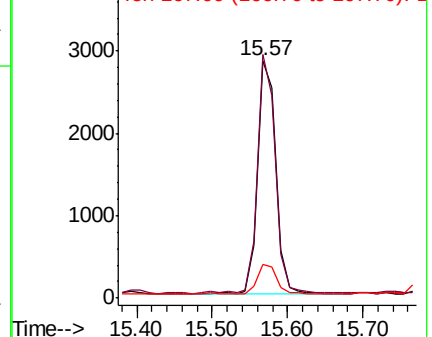
167 13.7 10.8 16.2

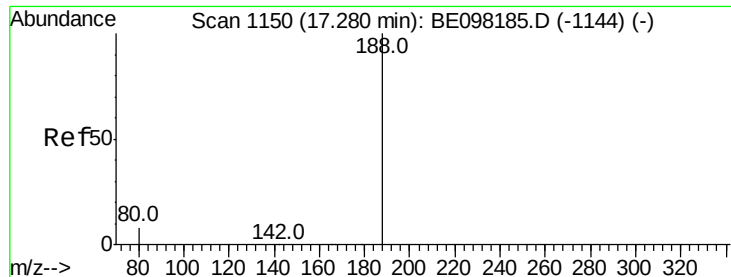


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

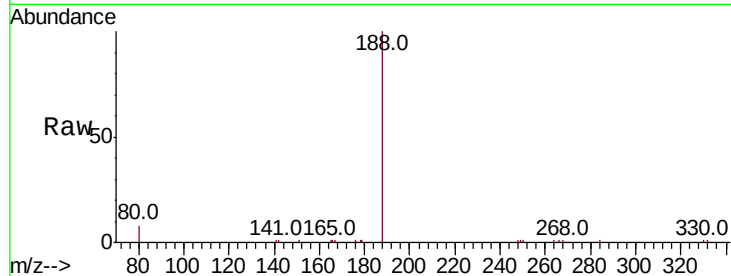
Tot Ion:188 Resp: 8249

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

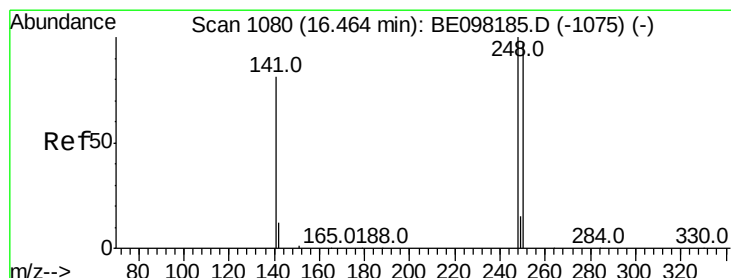
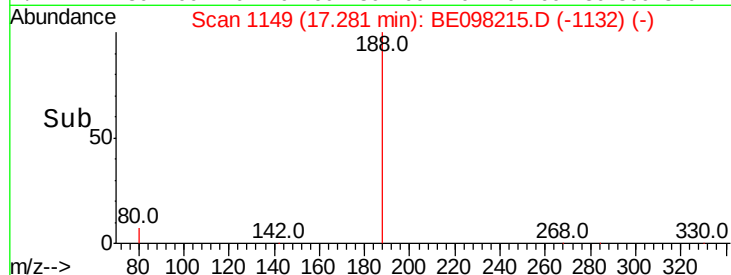
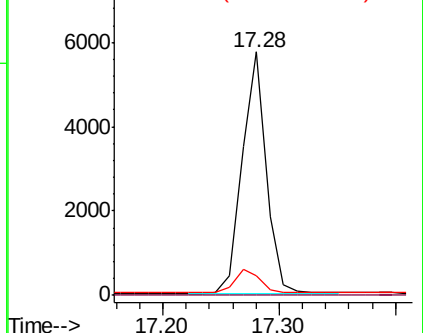
80 8.1 6.7 10.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.351 ng

RT: 16.46 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

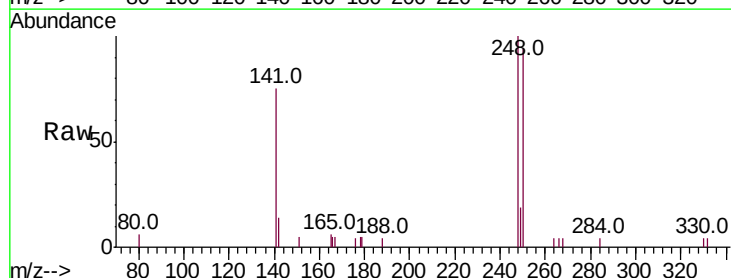
Tgt Ion:248 Resp: 1762

Ion Ratio Lower Upper

248 100

250 94.1 77.6 116.4

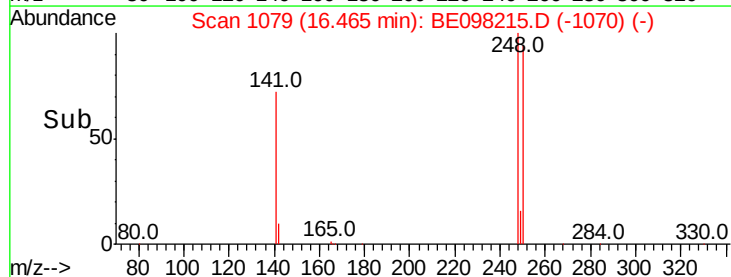
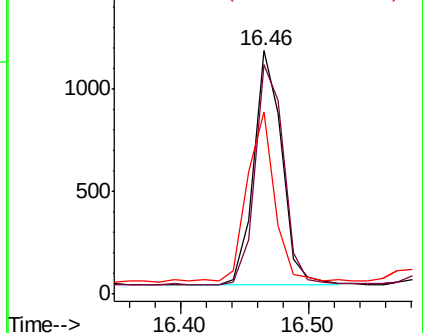
141 74.7 65.8 98.8

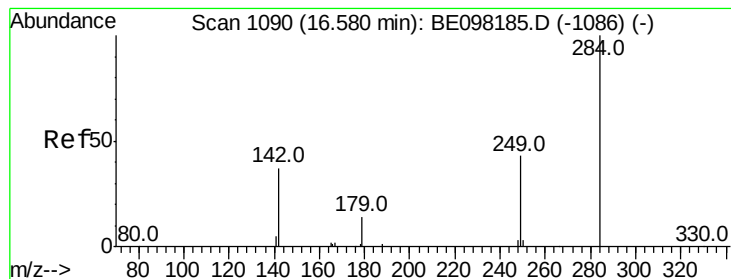


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.328 ng

RT: 16.58 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

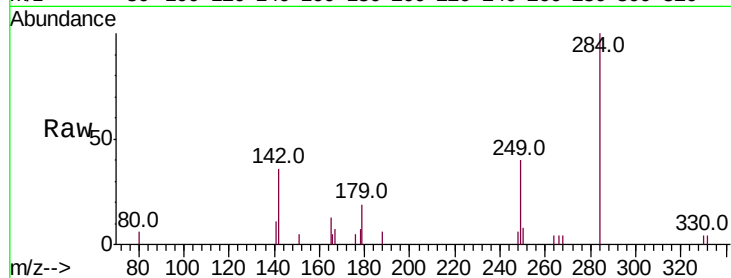
Tot Ion:284 Resp: 1713

Ion Ratio Lower Upper

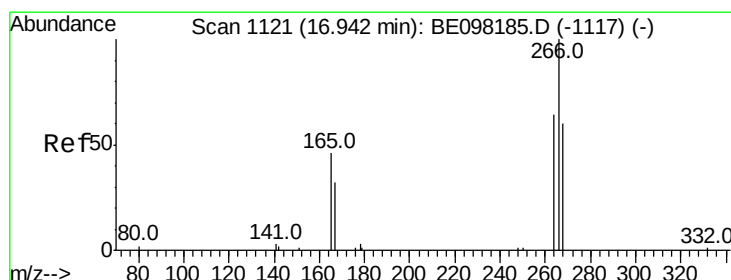
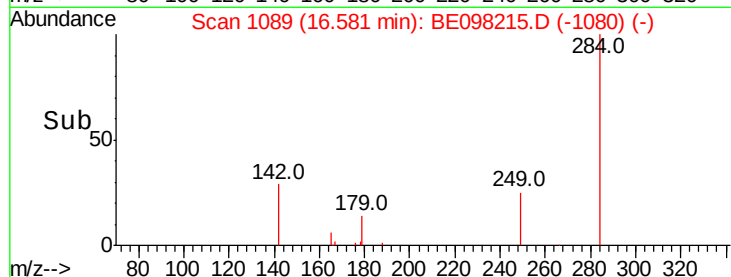
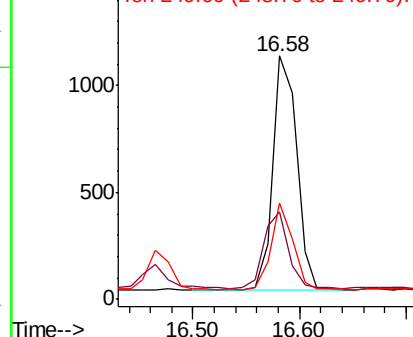
284 100

142 33.9 26.5 39.7

249 33.6 28.4 42.6



Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.516 ng

RT: 16.94 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

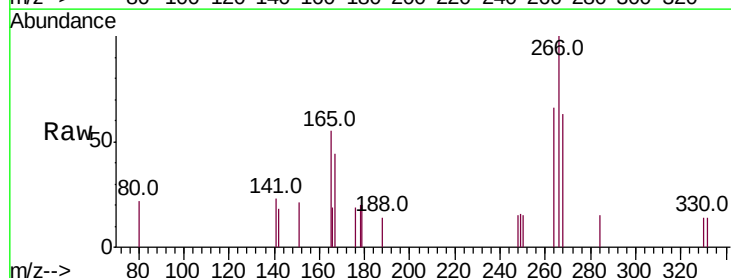
Tgt Ion:266 Resp: 509

Ion Ratio Lower Upper

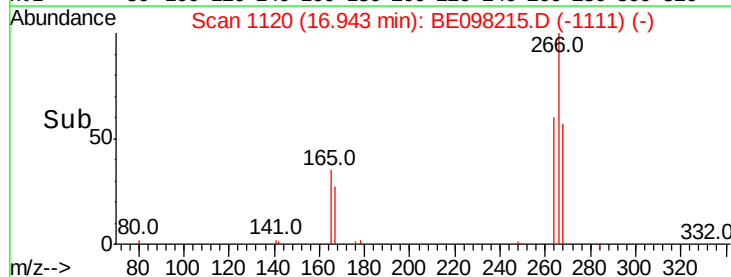
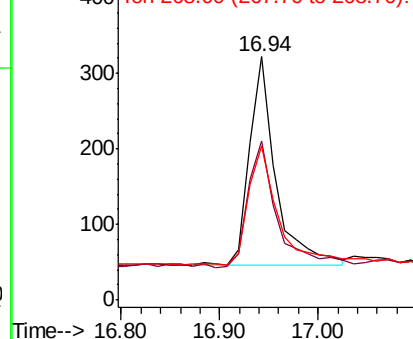
266 100

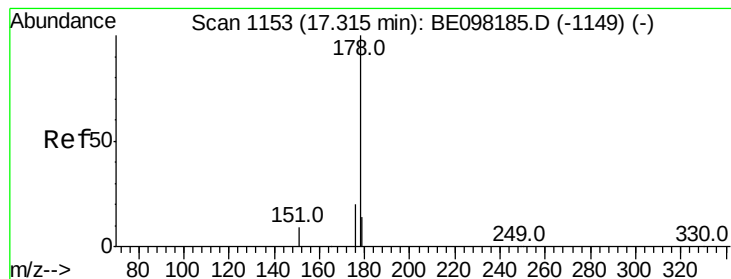
264 65.5 57.6 86.4

268 63.4 56.8 85.2



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.483 ng

RT: 17.32 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

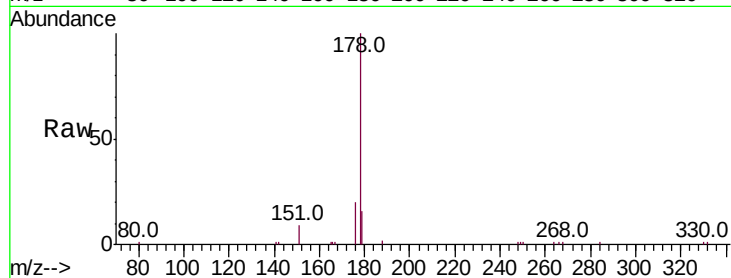
Tot Ion:178 Resp: 9930

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

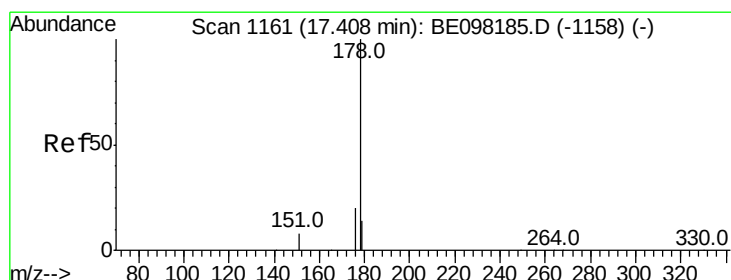
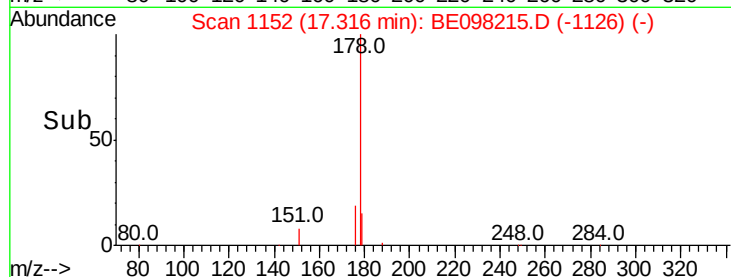
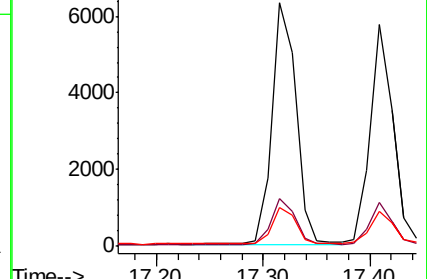
179 16.0 12.3 18.5



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



#24

Anthracene

Concen: 0.441 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

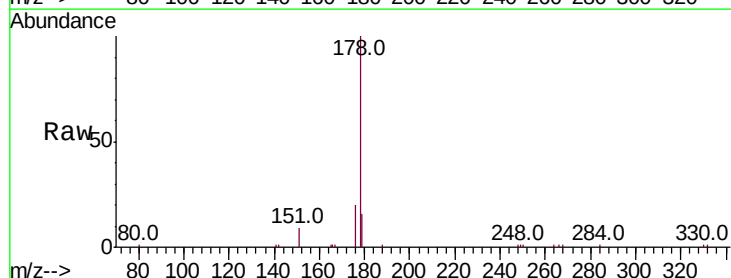
Tgt Ion:178 Resp: 8447

Ion Ratio Lower Upper

178 100

176 18.7 15.7 23.5

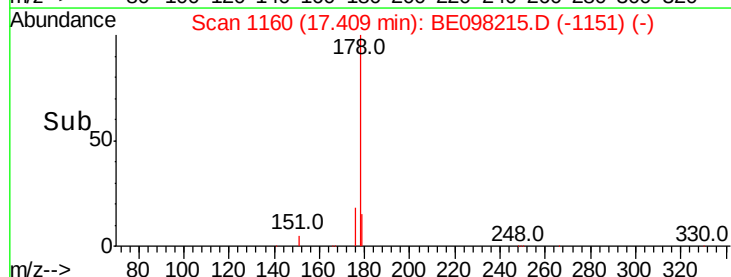
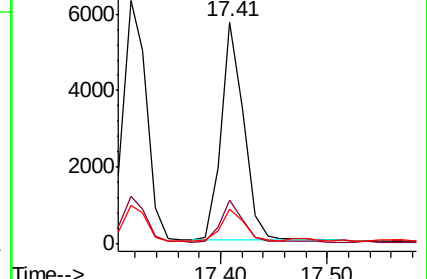
179 15.0 12.1 18.1

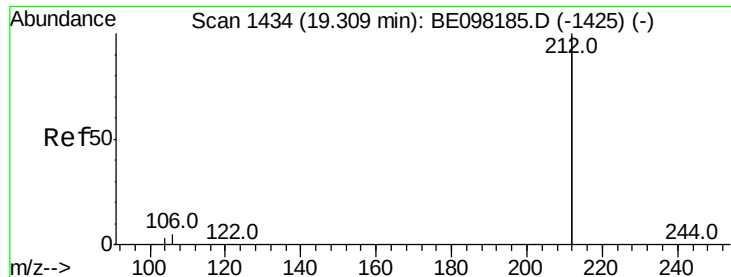


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.485 ng

RT: 19.31 min Scan# 1433

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

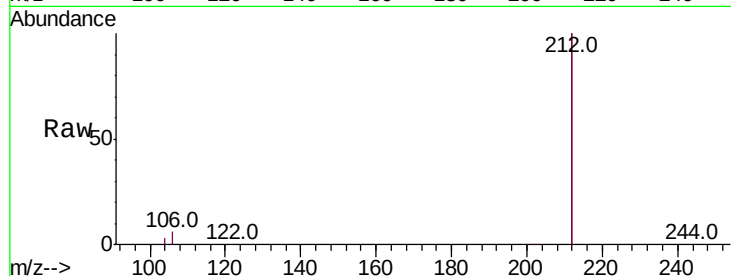
Tot Ion:212 Resp: 50005

Ion Ratio Lower Upper

212 100

106 2.6 1.8 2.8

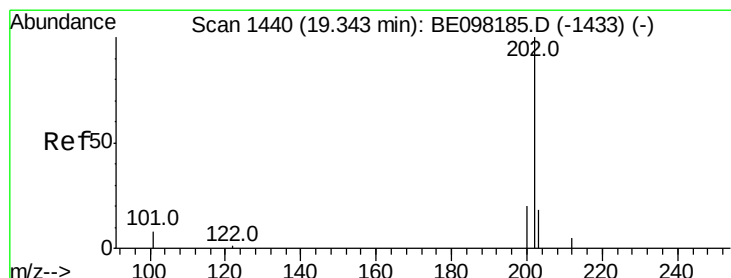
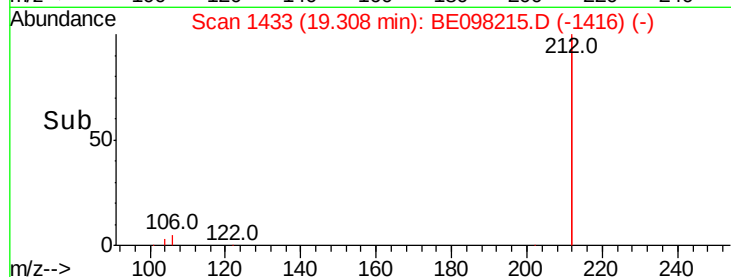
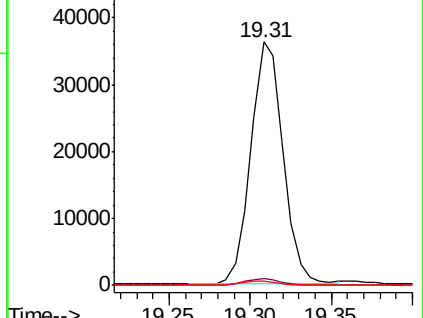
104 1.5 1.1 1.7



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.602 ng

RT: 19.34 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

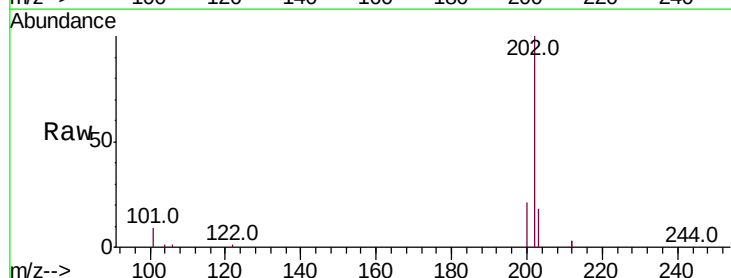
Tgt Ion:202 Resp: 15327

Ion Ratio Lower Upper

202 100

101 9.6 7.0 10.6

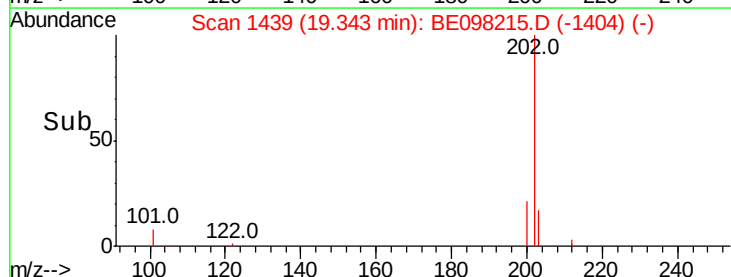
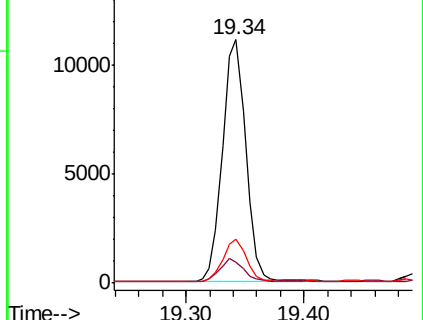
203 17.1 13.7 20.5

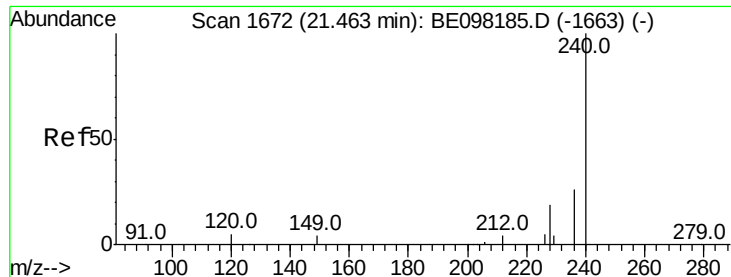


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

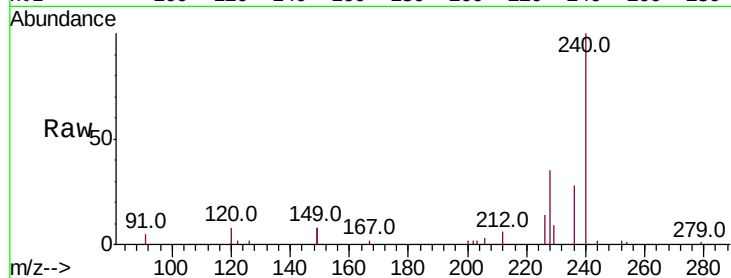
Tot Ion:240 Resp: 9559

Ion Ratio Lower Upper

240 100

120 8.1 4.8 7.2#

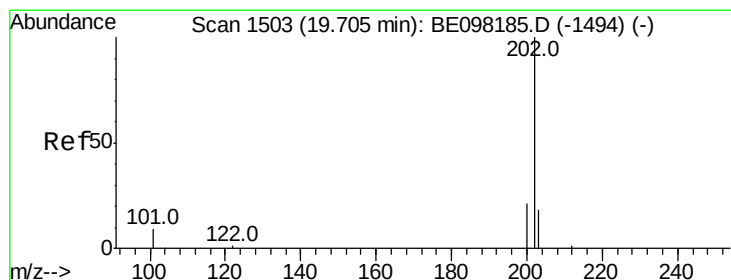
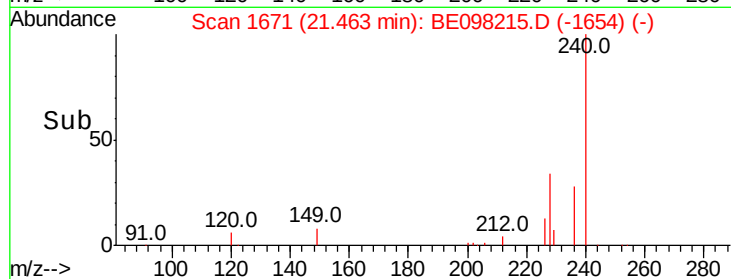
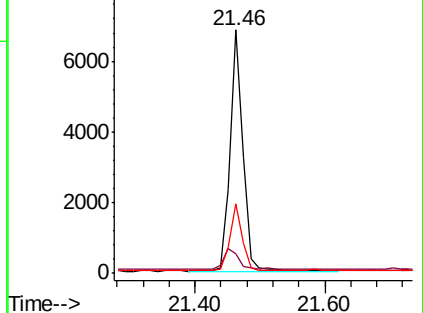
236 28.5 21.4 32.0



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



#28

Pyrene

Concen: 0.579 ng

RT: 19.70 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

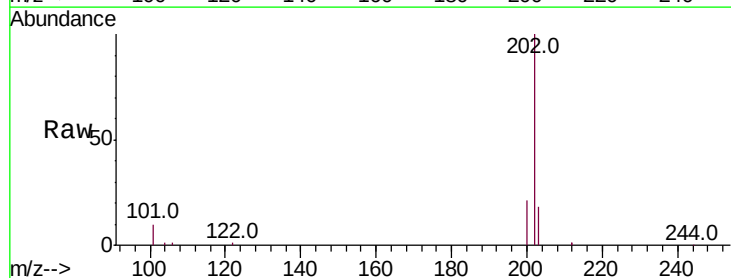
Tgt Ion:202 Resp: 15237

Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

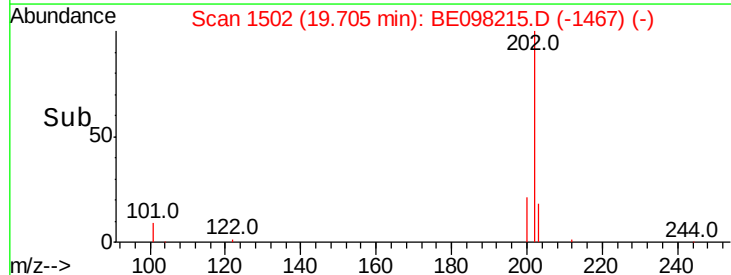
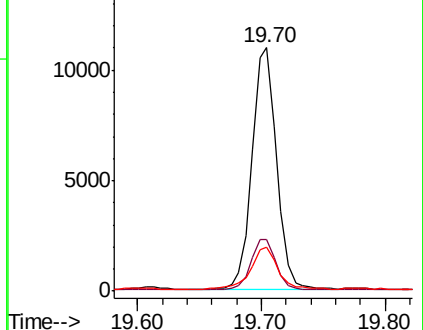
203 19.1 14.2 21.4



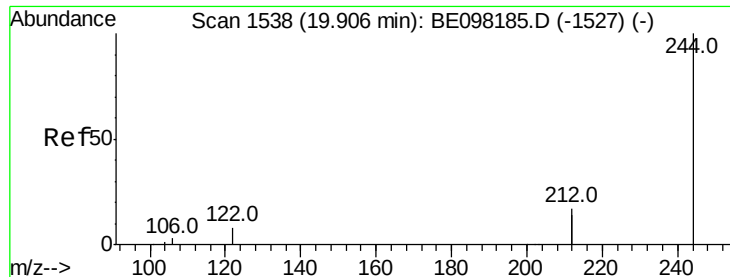
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.423 ng

RT: 19.91 min Scan# 1537

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

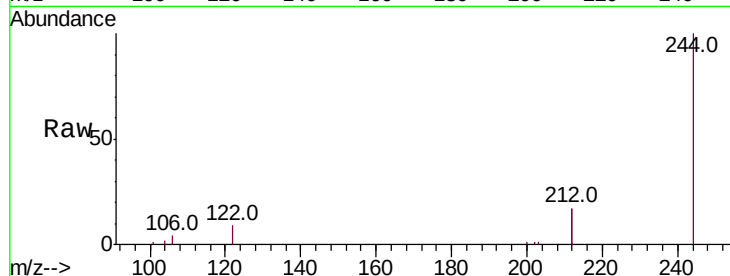
Tot Ion:244 Resp: 9183

Ion Ratio Lower Upper

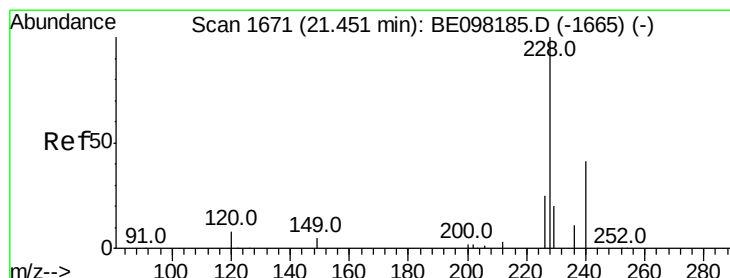
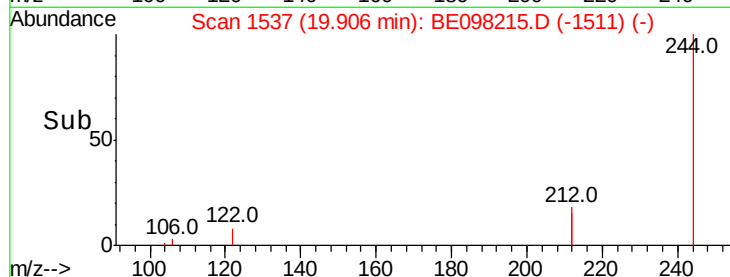
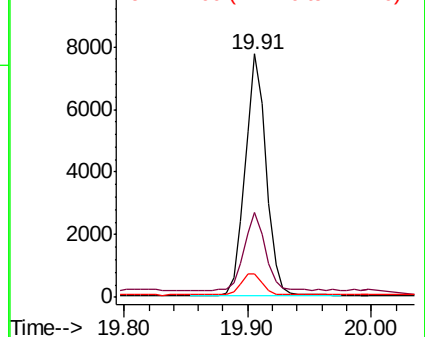
244 100

212 35.0 26.8 40.2

122 9.4 7.0 10.6



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



#30

Benzo(a)anthracene

Concen: 0.604 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

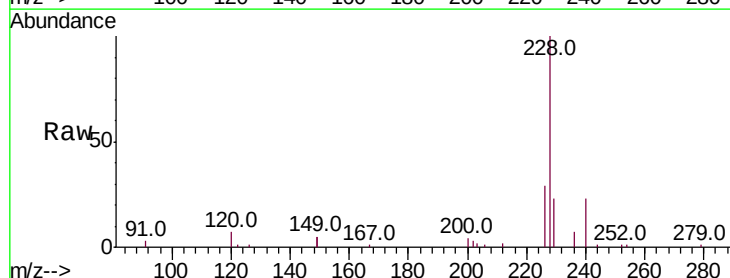
Tgt Ion:228 Resp: 16403

Ion Ratio Lower Upper

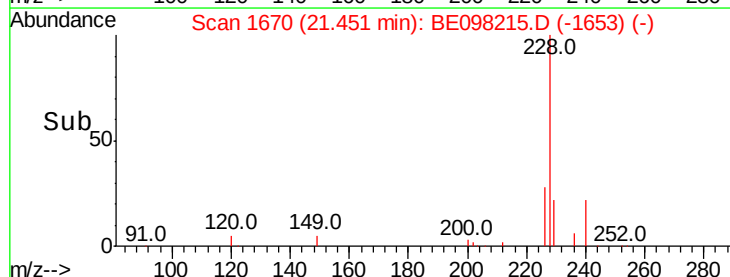
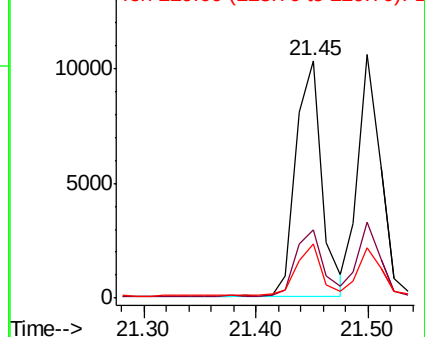
228 100

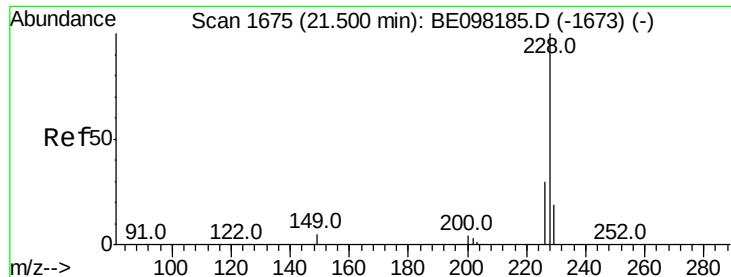
226 28.6 20.7 31.1

229 22.6 16.2 24.4



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





#31

Chrysene

Concen: 0.528 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

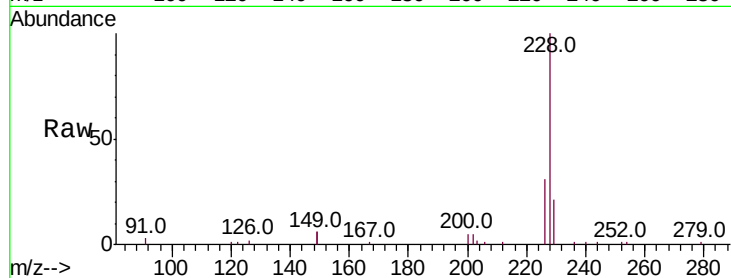
Tot Ion:228 Resp: 14563

Ion Ratio Lower Upper

228 100

226 31.1 24.6 36.8

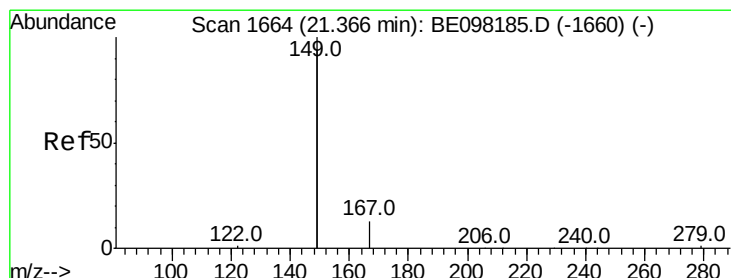
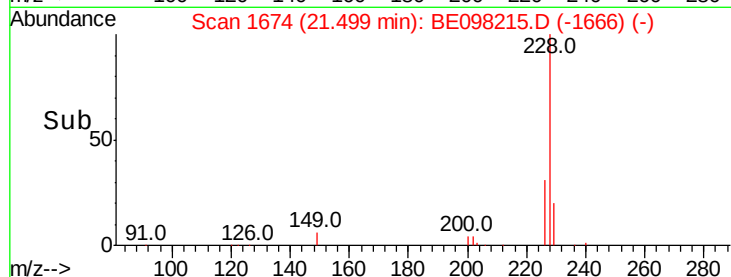
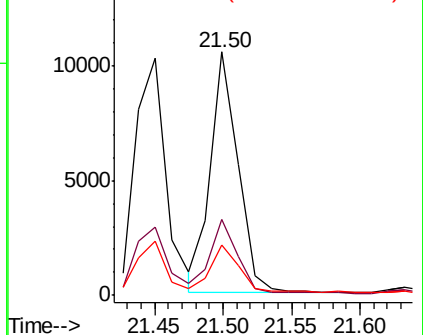
229 20.9 16.0 24.0



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.786 ng

RT: 21.37 min Scan# 1663

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

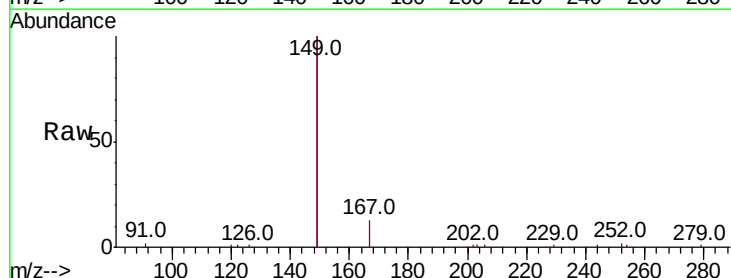
Tgt Ion:149 Resp: 44345

Ion Ratio Lower Upper

149 100

167 6.9 5.6 8.4

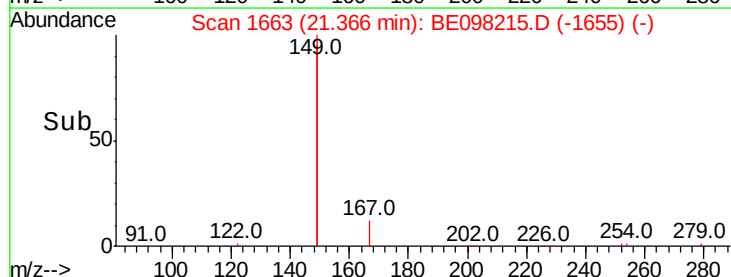
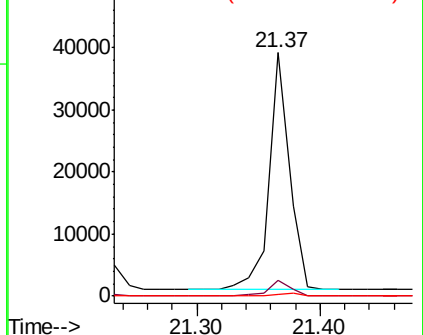
279 1.1 0.9 1.3

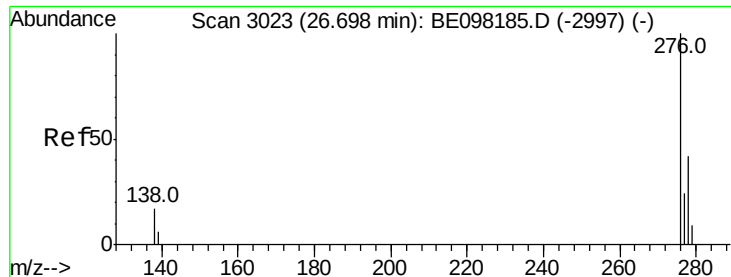


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.556 ng

RT: 26.70 min Scan# 3023

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

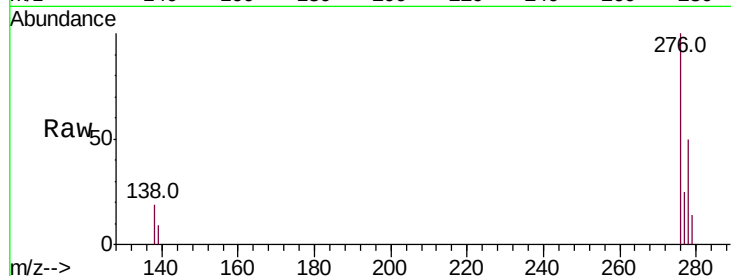
Tot Ion:276 Resp: 14054

Ion Ratio Lower Upper

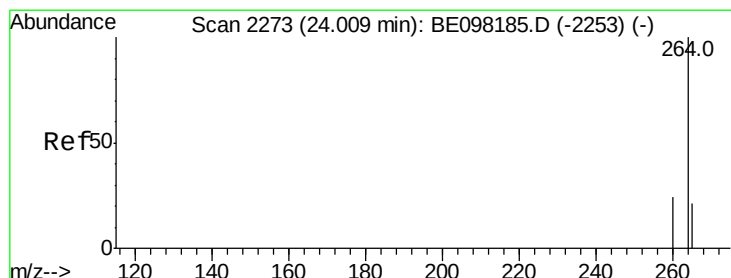
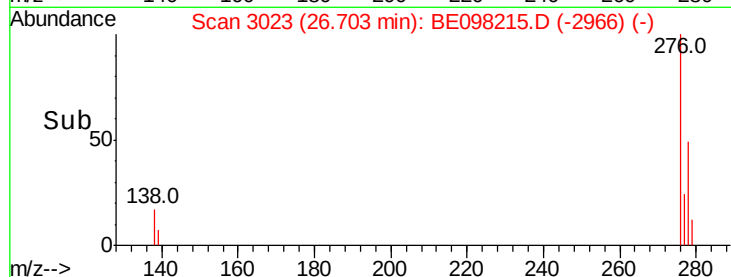
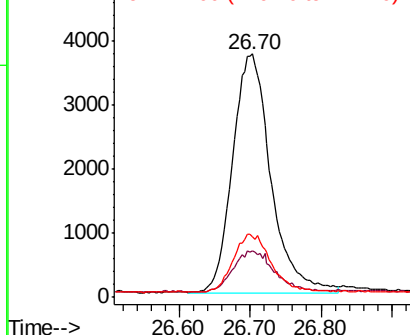
276 100

138 18.6 6.4 9.6#

277 24.1 18.9 28.3



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.01 min Scan# 2273

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

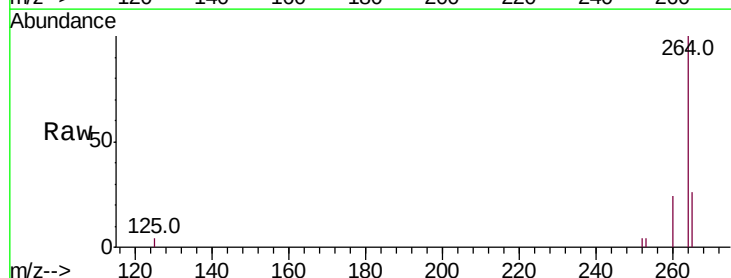
Tgt Ion:264 Resp: 9444

Ion Ratio Lower Upper

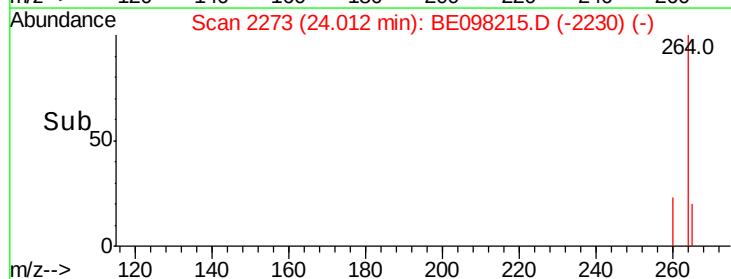
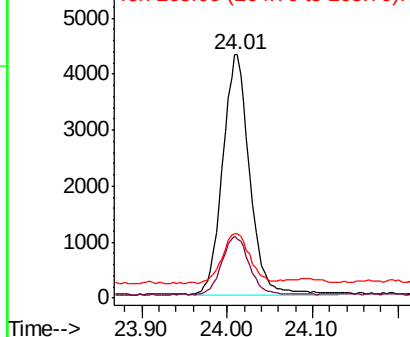
264 100

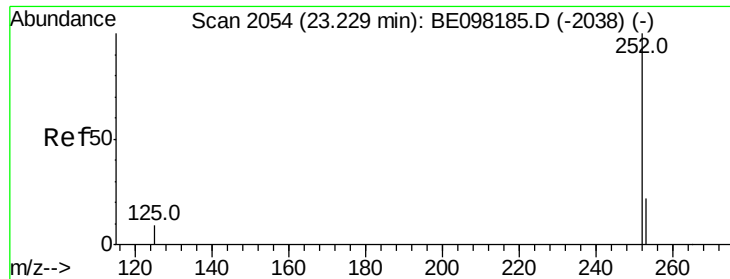
260 24.5 19.9 29.9

265 26.5 21.3 31.9



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





#35

Benzo(b)fluoranthene

Concen: 0.600 ng

RT: 23.23 min Scan# 2053

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

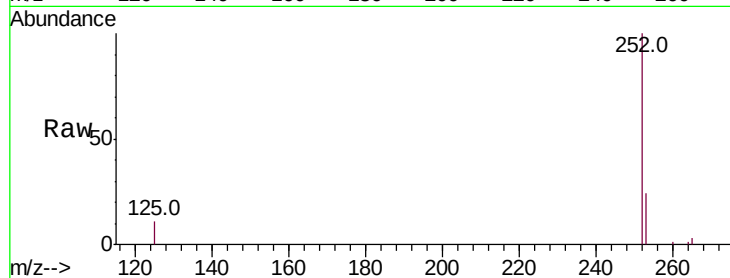
Tot Ion:252 Resp: 16062

Ion Ratio Lower Upper

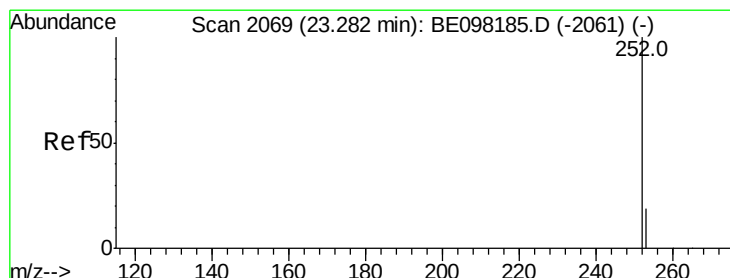
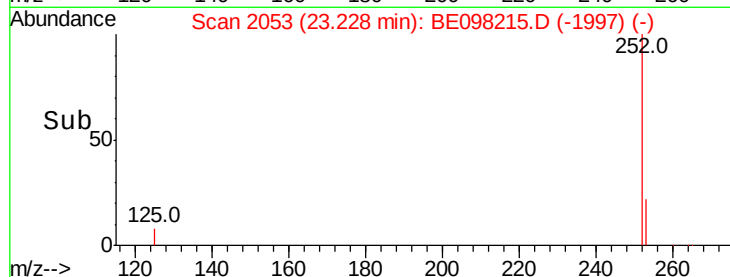
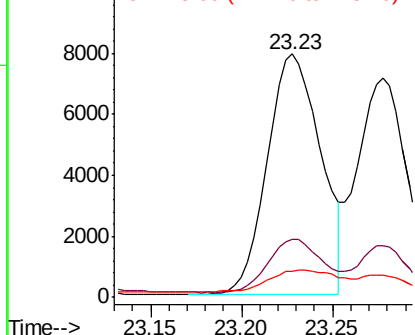
252 100

253 23.8 19.4 29.0

125 10.6 8.6 12.8



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



#36

Benzo(k)fluoranthene

Concen: 0.464 ng

RT: 23.28 min Scan# 2067

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

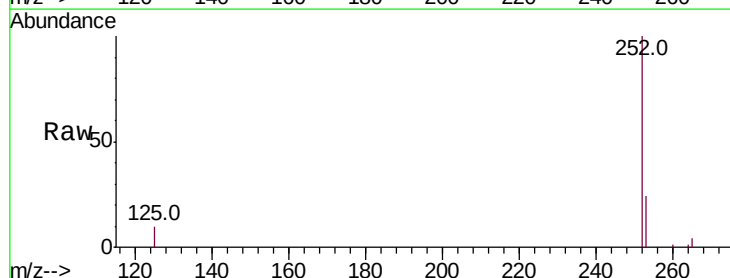
Tgt Ion:252 Resp: 13118

Ion Ratio Lower Upper

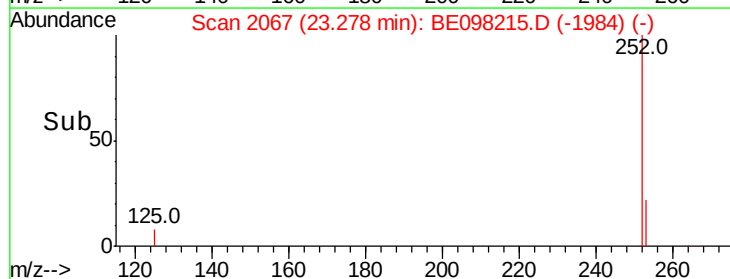
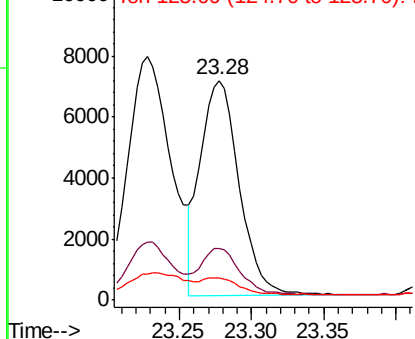
252 100

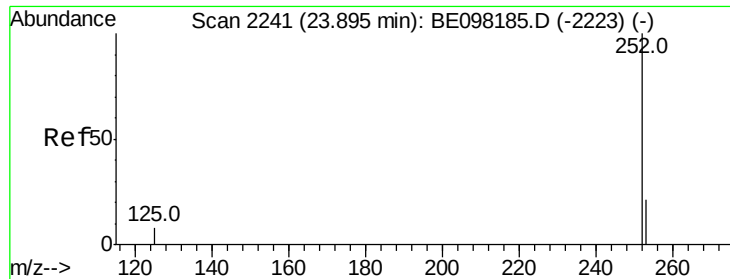
253 23.8 18.6 28.0

125 10.3 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





#37

Benzo(a)pyrene

Concen: 0.575 ng

RT: 23.89 min Scan# 2239

Delta R.T. -0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS

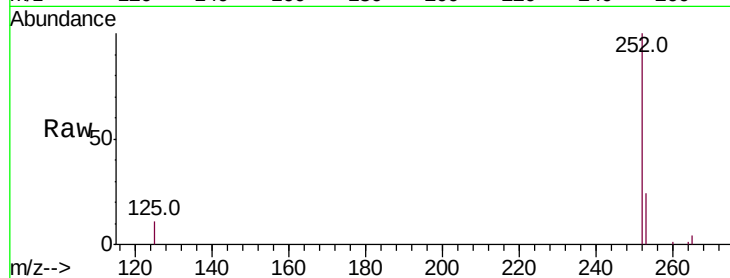
Tot Ion:252 Resp: 14774

Ion Ratio Lower Upper

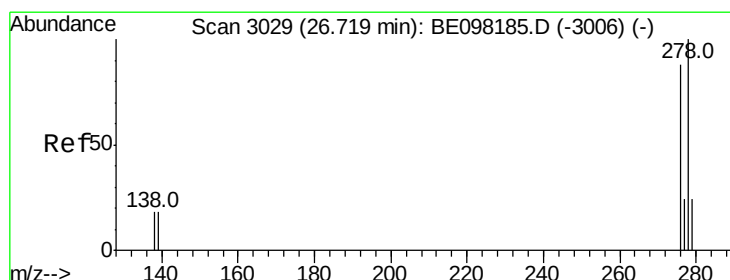
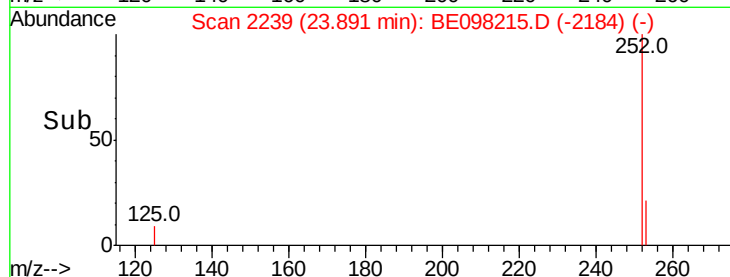
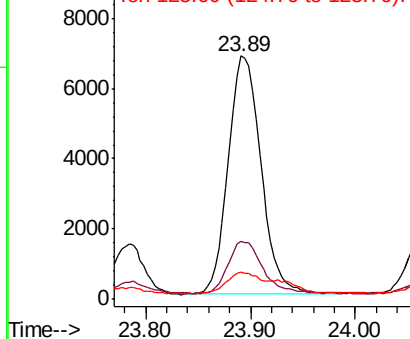
252 100

253 23.9 18.6 27.8

125 11.0 8.0 12.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.448 ng

RT: 26.72 min Scan# 3029

Delta R.T. 0.00 min

Lab File: BE098215.D

Acq: 13 Nov 2018 19:06

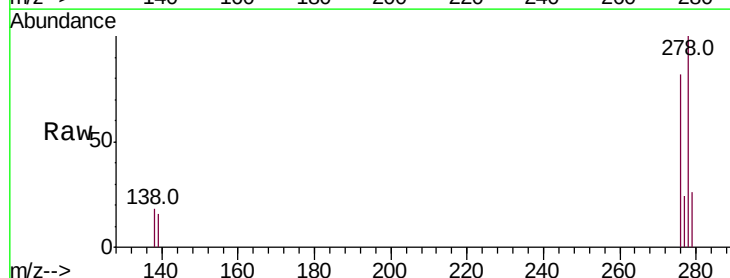
Tgt Ion:278 Resp: 9802

Ion Ratio Lower Upper

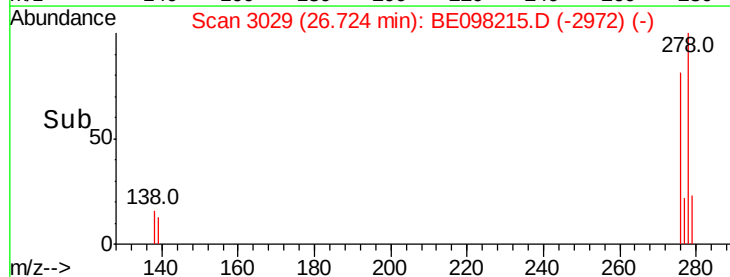
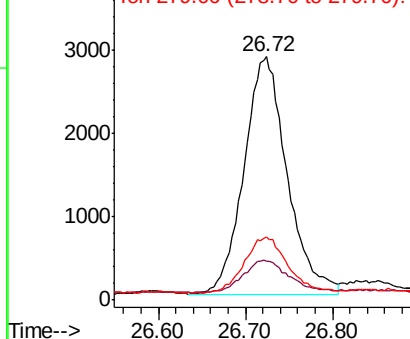
278 100

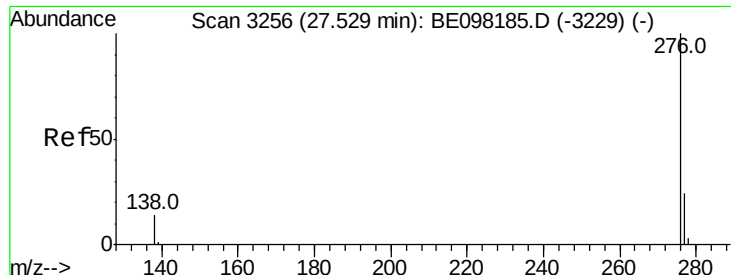
139 16.1 16.4 24.6#

279 25.9 21.3 31.9



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





#39

Benzo(a,h,i)perylene

Concen: 0.525 ng

RT: 27.53 min Scan# 3254

Delta R.T. -0.00 min

Lab File: BE098215.D

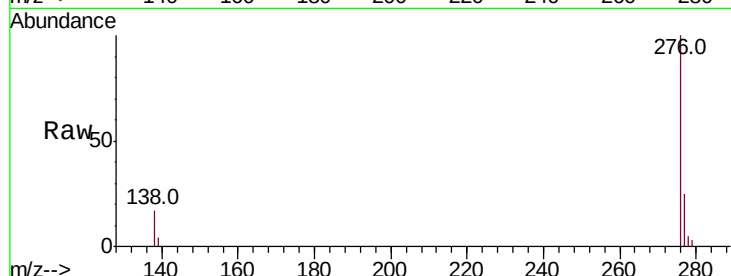
Acq: 13 Nov 2018 19:06

Instrument :

BNA\_E

ClientSampleId :

OLDMANS-2MS



Tot Ion:276 Resp: 11999

Ion Ratio Lower Upper

276 100

277 25.5 20.4 30.6

138 17.5 13.2 19.8

