

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111318\  
 Data File : BE098220.D  
 Acq On : 13 Nov 2018 22:11  
 Operator : SJ/JU  
 Sample : PB114778BSD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Nov 14 00:08:26 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 | 7.87  | 152  | 1553     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.67 | 136  | 7567     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 4899     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 11487    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 13631    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.01 | 264  | 12999    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.46  | 112  | 1836     | 0.42 | ng    | 0.00     |
| 5) Phenol-d6                | 7.04  | 99   | 2868     | 0.41 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.02  | 82   | 2989     | 0.40 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152  | 5107     | 0.38 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330  | 756      | 0.35 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.15 | 172  | 7687     | 0.37 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.31 | 212  | 57081    | 0.40 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.91 | 244  | 11411    | 0.37 | ng    | 0.00     |

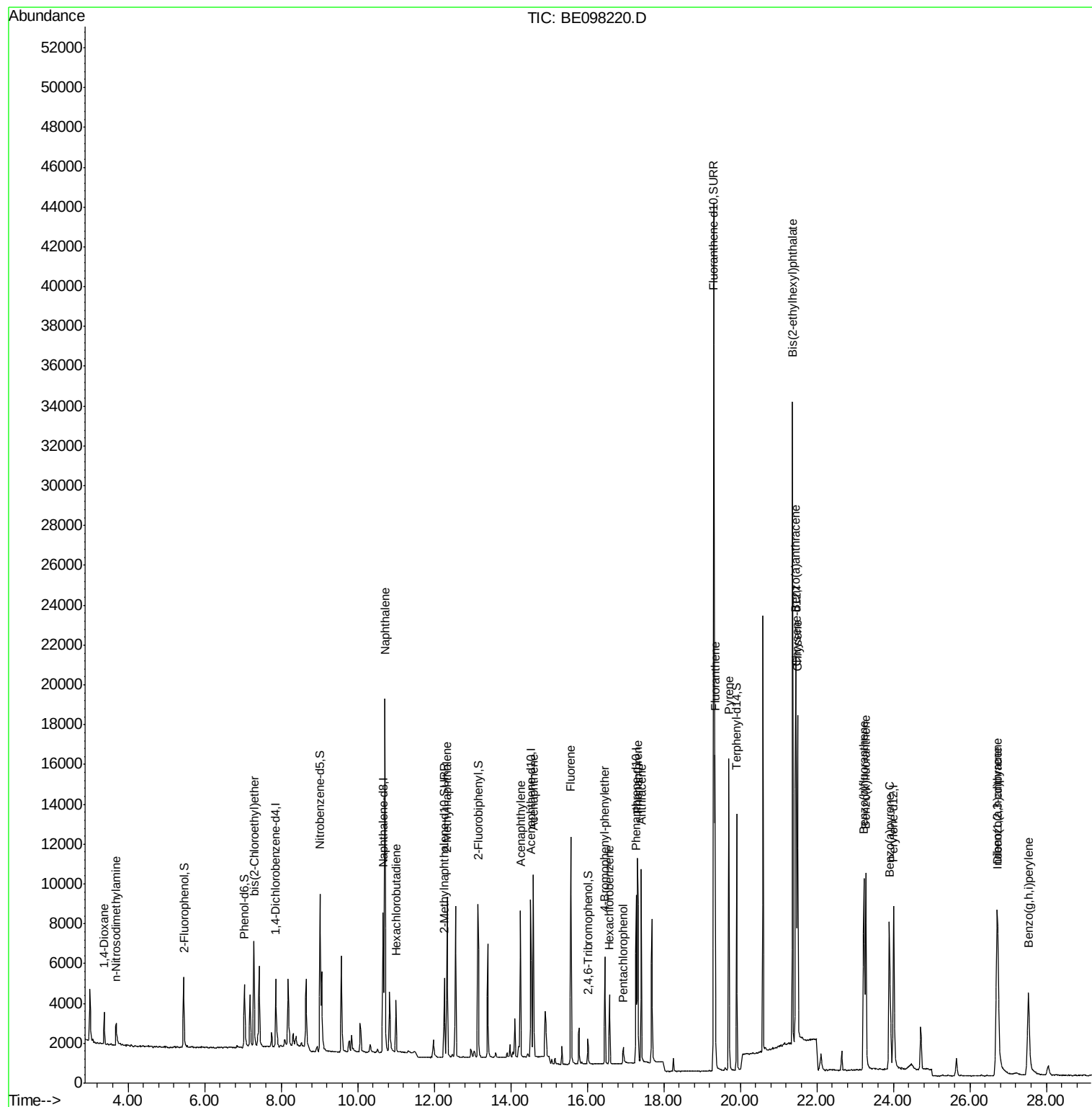
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.37  | 88   | 854      | 0.365 | ng    | 95     |
| 3) n-Nitrosodimethylamine      | 3.68  | 42   | 1164     | 0.382 | ng    | # 95   |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93   | 2133     | 0.375 | ng    | 97     |
| 9) Naphthalene                 | 10.72 | 128  | 29752    | 0.387 | ng    | 99     |
| 10) Hexachlorobutadiene        | 11.00 | 225  | 1821     | 0.381 | ng    | 97     |
| 12) 2-Methylnaphthalene        | 12.34 | 142  | 5226     | 0.391 | ng    | 96     |
| 16) Acenaphthylene             | 14.25 | 152  | 8813     | 0.392 | ng    | 99     |
| 17) Acenaphthene               | 14.60 | 154  | 5263     | 0.384 | ng    | 98     |
| 18) Fluorene                   | 15.57 | 166  | 6881     | 0.392 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248  | 2664     | 0.381 | ng    | 94     |
| 21) Hexachlorobenzene          | 16.58 | 284  | 2786     | 0.383 | ng    | 97     |
| 22) Pentachlorophenol          | 16.94 | 266  | 588      | 0.442 | ng    | 96     |
| 23) Phenanthrene               | 17.32 | 178  | 11295    | 0.395 | ng    | 99     |
| 24) Anthracene                 | 17.41 | 178  | 10345    | 0.388 | ng    | 98     |
| 26) Fluoranthene               | 19.34 | 202  | 14101    | 0.398 | ng    | 99     |
| 28) Pyrene                     | 19.70 | 202  | 14506    | 0.387 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.45 | 228  | 14716    | 0.380 | ng    | 99     |
| 31) Chrysene                   | 21.50 | 228  | 14753    | 0.375 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149  | 33843    | 0.421 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.71 | 276  | 14094    | 0.391 | ng    | # 88   |
| 35) Benzo(b)fluoranthene       | 23.22 | 252  | 13875    | 0.376 | ng    | 97     |
| 36) Benzo(k)fluoranthene       | 23.28 | 252  | 14761    | 0.379 | ng    | 99     |
| 37) Benzo(a)pyrene             | 23.89 | 252  | 13652    | 0.386 | ng    | 99     |
| 38) Dibenzo(a,h)anthracene     | 26.73 | 278  | 12031    | 0.399 | ng    | 98     |
| 39) Benzo(g,h,i)perylene       | 27.53 | 276  | 12022    | 0.382 | ng    | 98     |

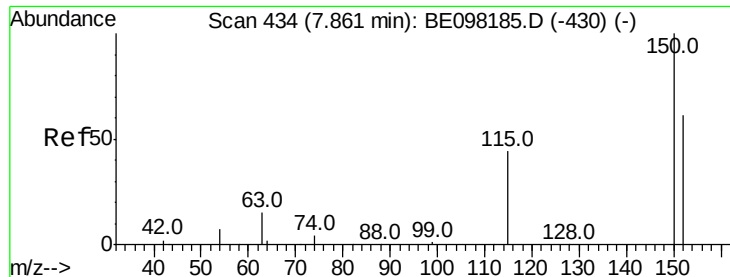
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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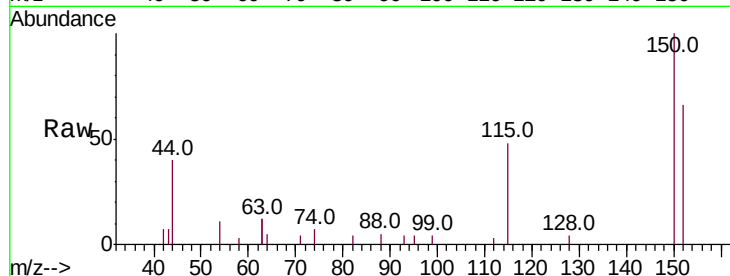


#1

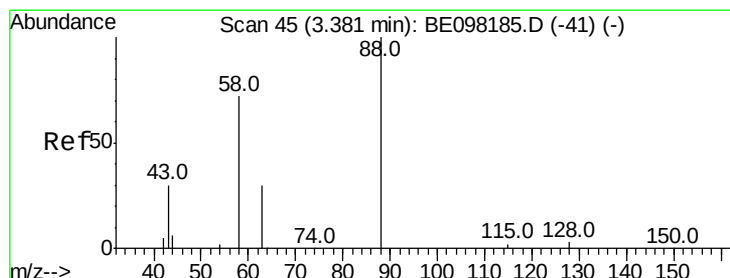
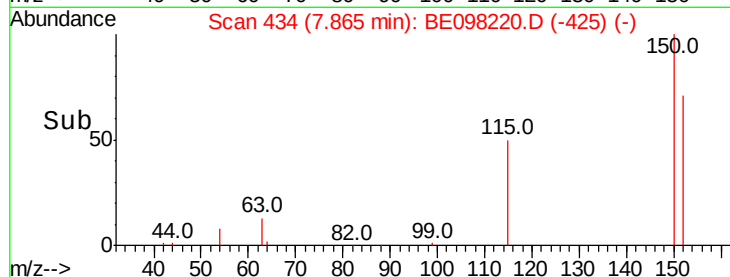
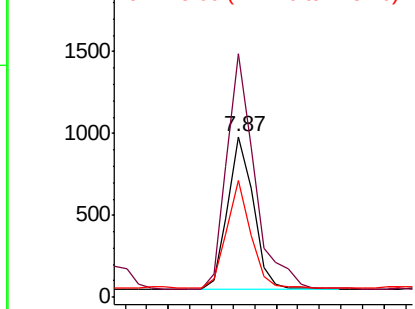
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.87 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1553  
Ion Ratio Lower Upper  
152 100  
150 151.6 127.5 191.3  
115 72.8 60.3 90.5



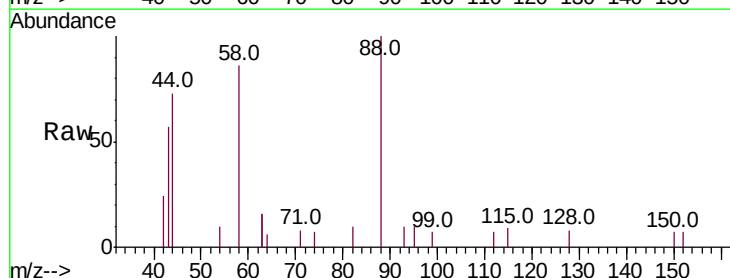
Abundance Ion 152.00 (151.70 to 152.70): E  
2000 Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



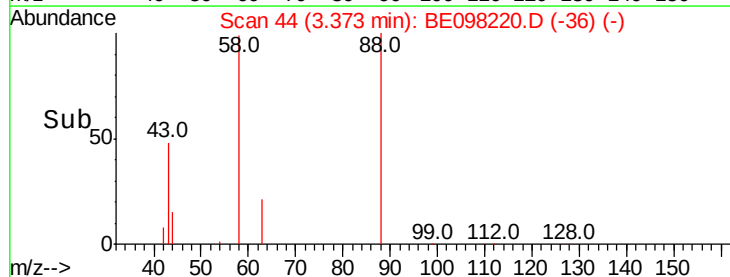
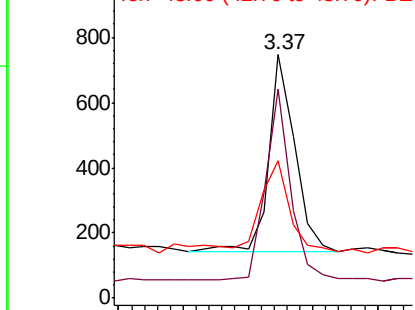
#2

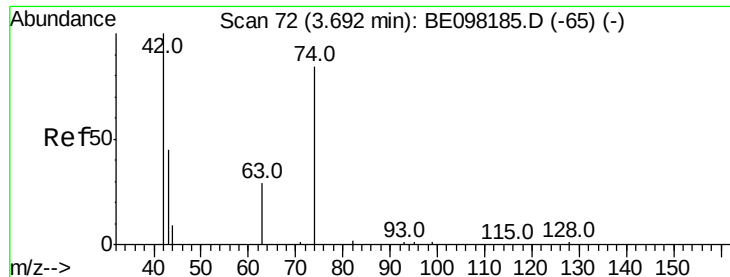
1,4-Dioxane  
Concen: 0.365 ng  
RT: 3.37 min Scan# 44  
Delta R.T. -0.01 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Tgt Ion: 88 Resp: 854  
Ion Ratio Lower Upper  
88 100  
58 92.9 79.0 118.4  
43 49.6 38.1 57.1



Abundance Ion 88.00 (87.70 to 88.70): BE0  
1000 Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.382 ng

RT: 3.68 min Scan# 71

Delta R.T. -0.01 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

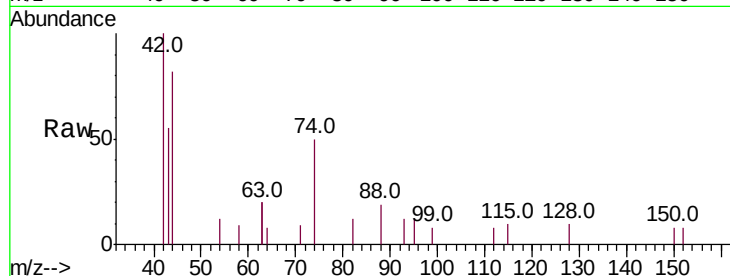
Tot Ion: 42 Resp: 1164

Ion Ratio Lower Upper

42 100

74 81.0 61.7 92.5

44 13.2 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

3.68

600

400

200

0

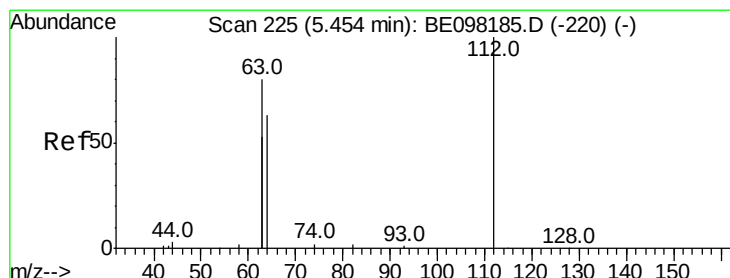
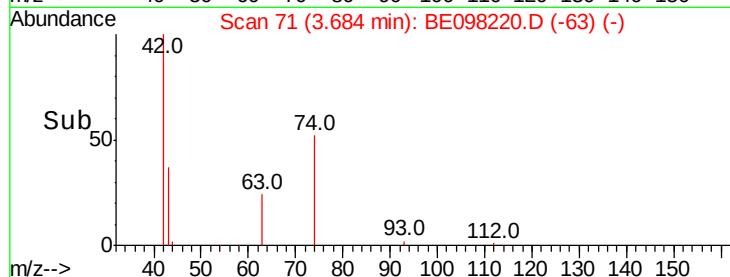
Time-->

3.60

3.65

3.70

3.75



#4

2-Fluorophenol

Concen: 0.419 ng

RT: 5.46 min Scan# 225

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

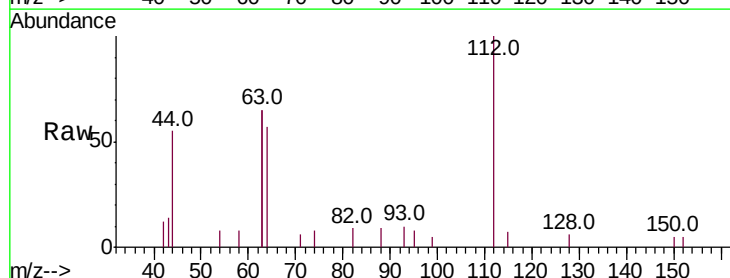
Tgt Ion: 112 Resp: 1836

Ion Ratio Lower Upper

112 100

64 75.3 61.7 92.5

63 167.9 136.2 204.2



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

2500

2000

1500

1000

500

0

Time-->

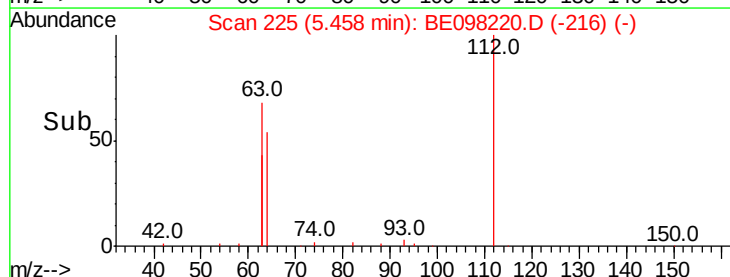
5.30

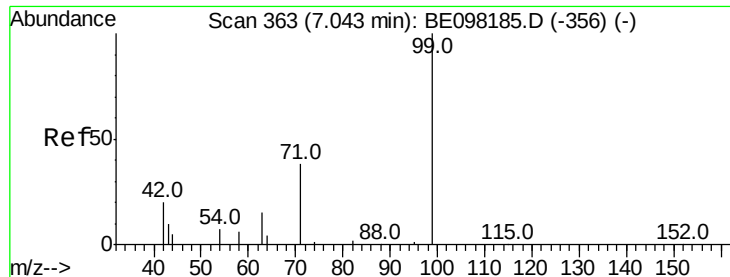
5.40

5.50

5.60

5.70





#5

Phenol-d6

Concen: 0.407 ng

RT: 7.04 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

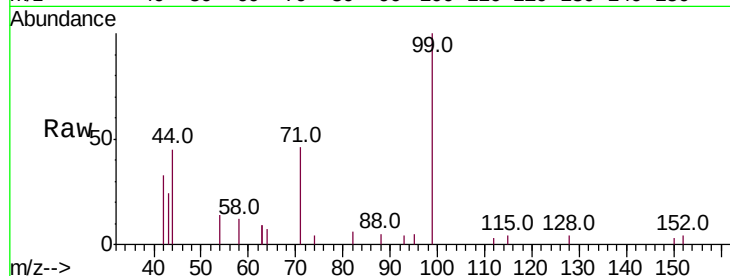
Tot Ion: 99 Resp: 2868

Ion Ratio Lower Upper

99 100

42 30.1 27.1 40.7

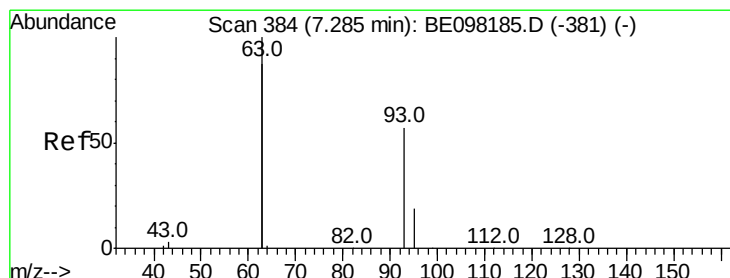
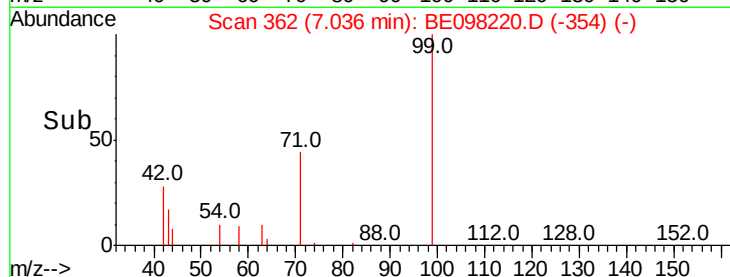
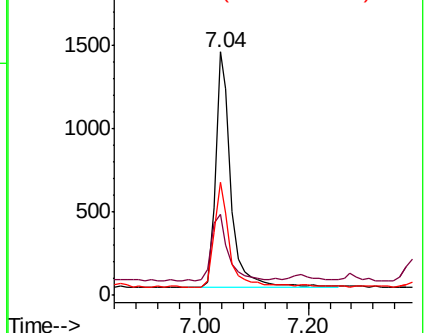
71 43.4 37.0 55.6



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: 0.375 ng

RT: 7.29 min Scan# 384

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

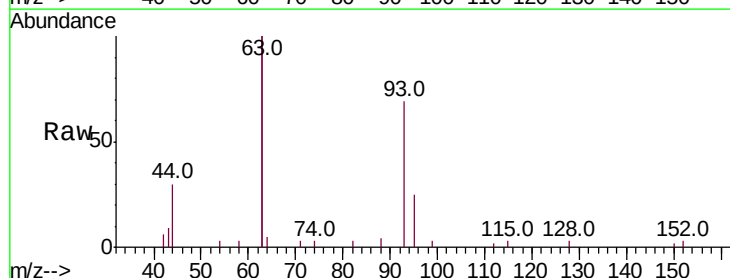
Tgt Ion: 93 Resp: 2133

Ion Ratio Lower Upper

93 100

63 333.8 272.6 409.0

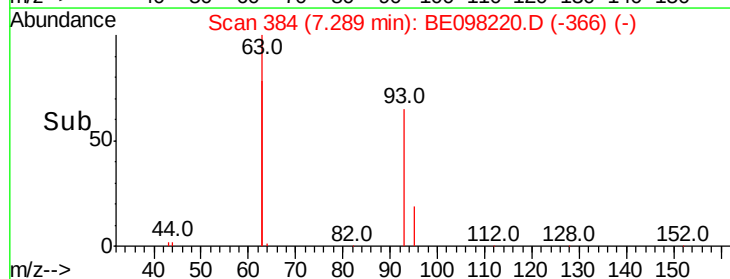
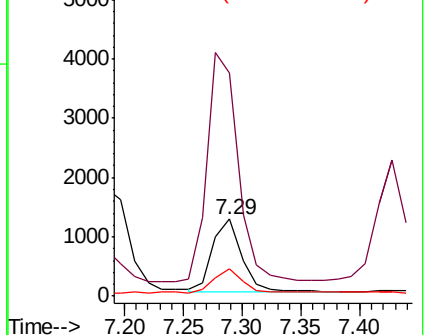
95 33.8 27.1 40.7

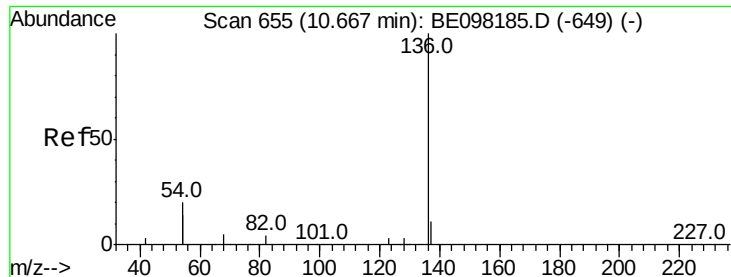


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 7567

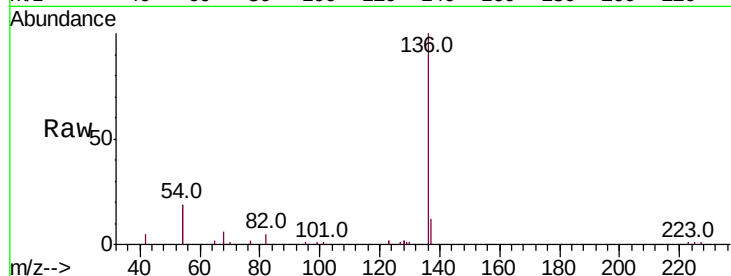
Ion Ratio Lower Upper

136 100

137 12.3 9.5 14.3

54 38.5 31.3 46.9

68 6.2 4.8 7.2

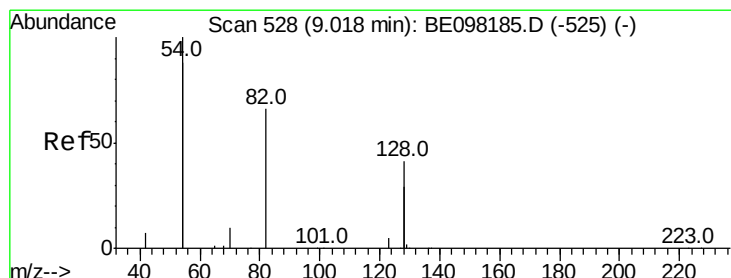
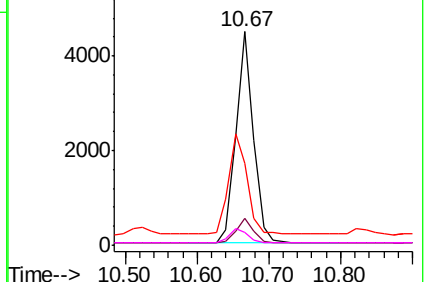
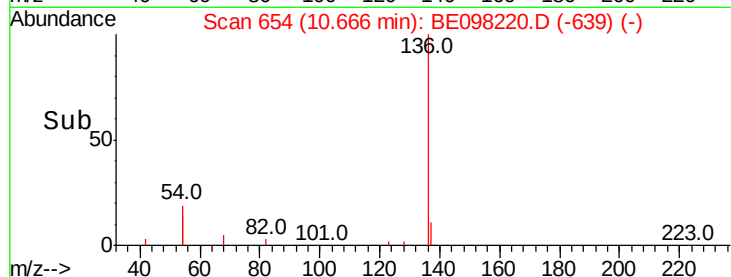


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.396 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

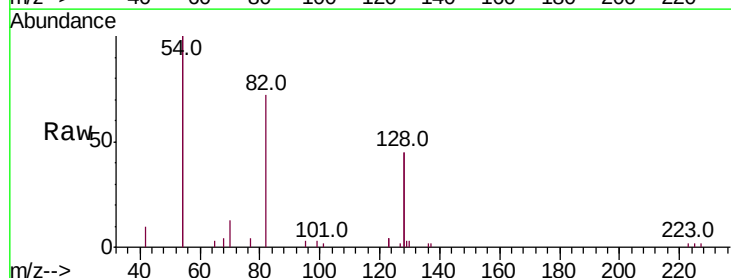
Tgt Ion: 82 Resp: 2989

Ion Ratio Lower Upper

82 100

128 124.5 96.1 144.1

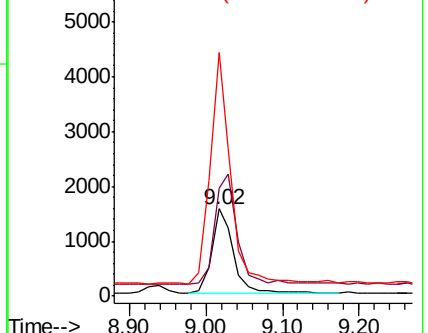
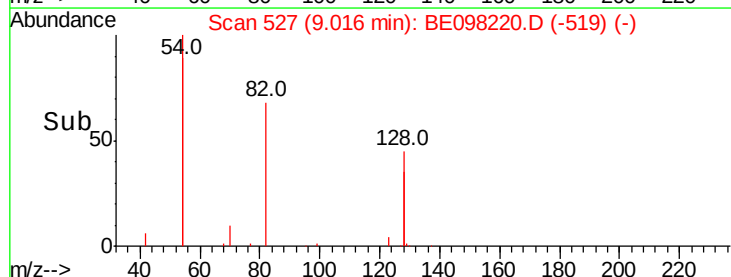
54 279.5 232.0 348.0

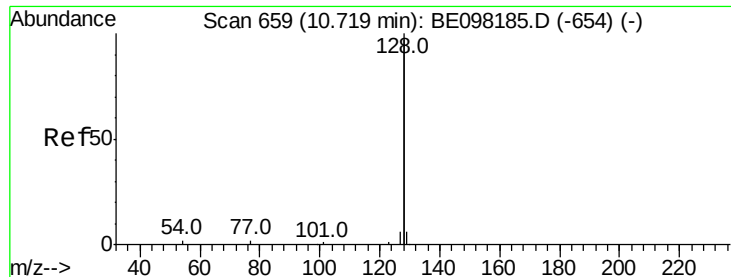


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

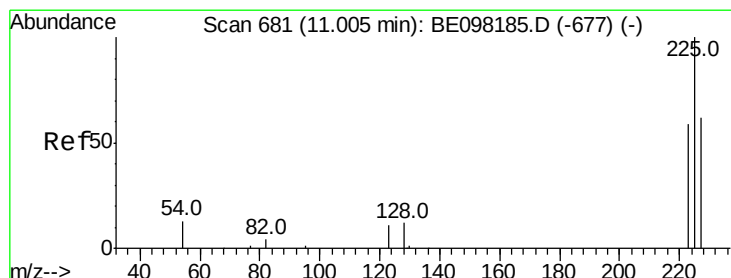
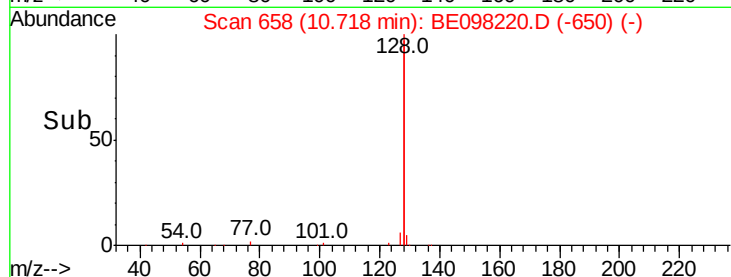
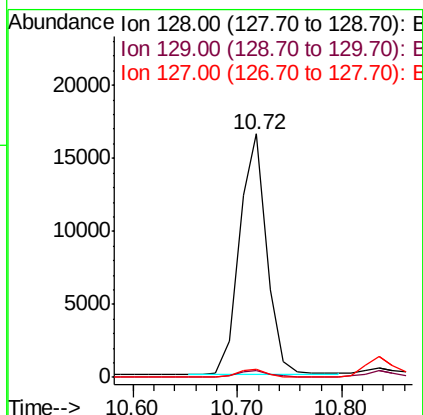
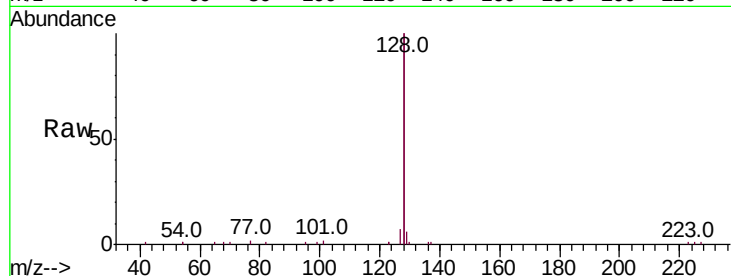




#9  
Naphthalene  
Concen: 0.387 ng  
RT: 10.72 min Scan# 658  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

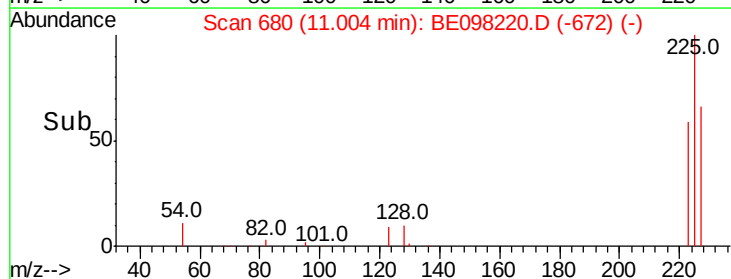
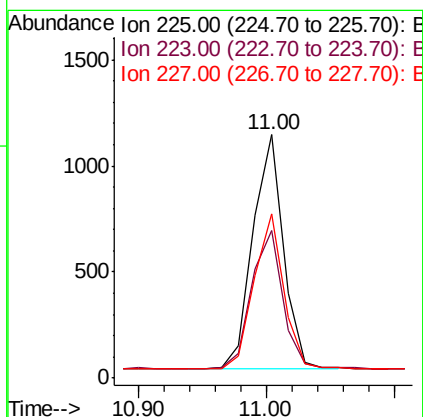
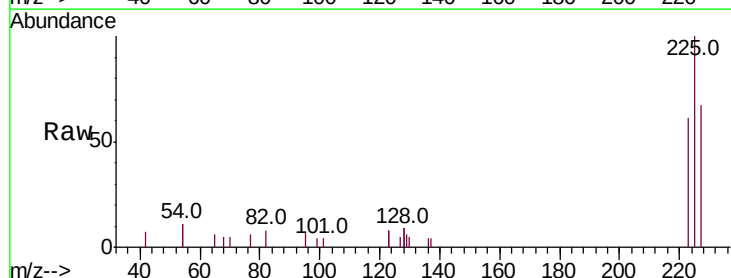
Instrument :  
BNA\_E  
ClientSampleId :

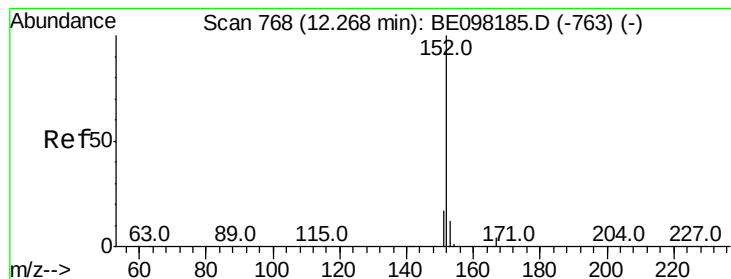
Tot Ion:128 Resp: 29752  
Ion Ratio Lower Upper  
128 100  
129 3.0 2.6 4.0  
127 3.3 2.8 4.2



#10  
Hexachlorobutadiene  
Concen: 0.381 ng  
RT: 11.00 min Scan# 680  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Tgt Ion:225 Resp: 1821  
Ion Ratio Lower Upper  
225 100  
223 60.2 50.5 75.7  
227 64.3 50.3 75.5

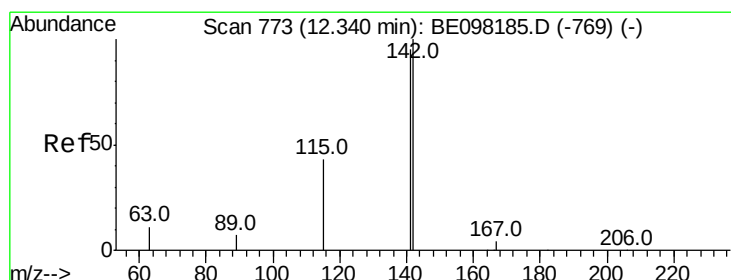
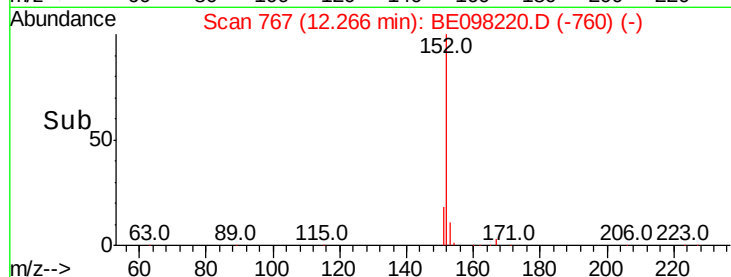
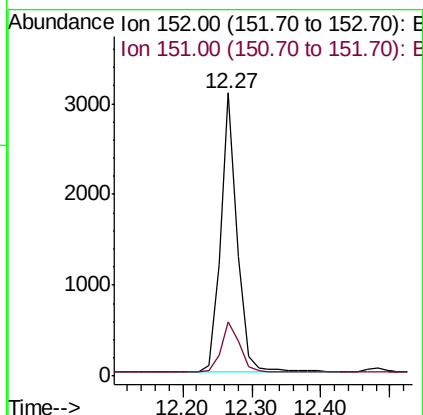
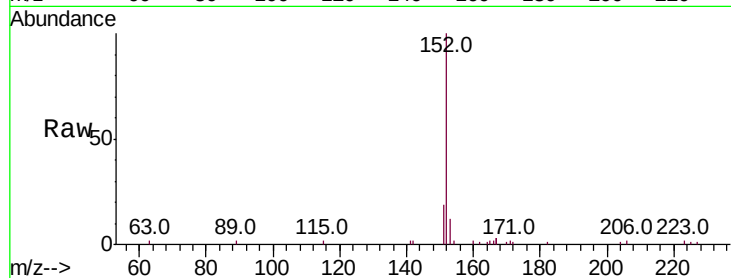




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.385 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: BE098220.D  
 Acq: 13 Nov 2018 22:11

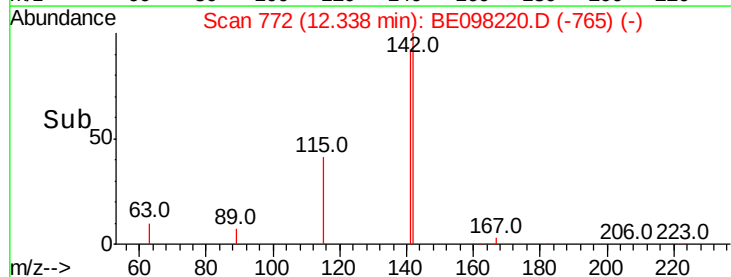
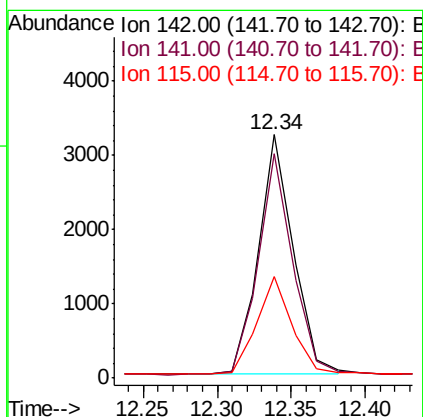
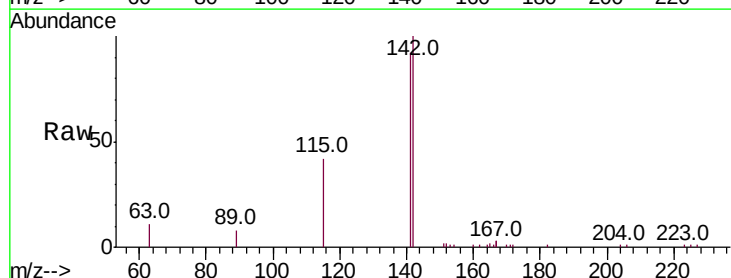
Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:152 Resp: 5107  
 Ion Ratio Lower Upper  
 152 100  
 151 20.4 15.4 23.2

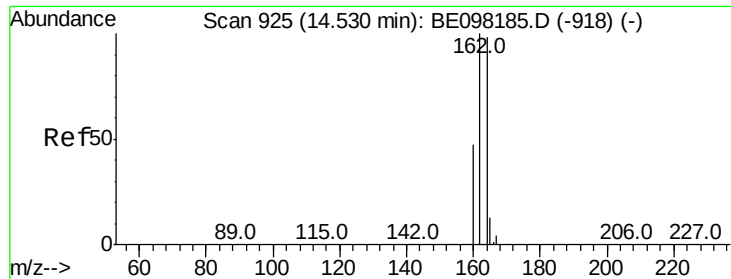


#12  
 2-Methylnaphthalene  
 Concen: 0.391 ng  
 RT: 12.34 min Scan# 772  
 Delta R.T. -0.00 min  
 Lab File: BE098220.D  
 Acq: 13 Nov 2018 22:11

Tgt Ion:142 Resp: 5226  
 Ion Ratio Lower Upper  
 142 100  
 141 92.0 76.3 114.5  
 115 41.9 35.8 53.8



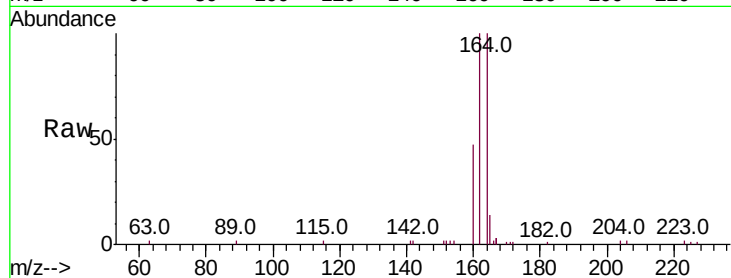




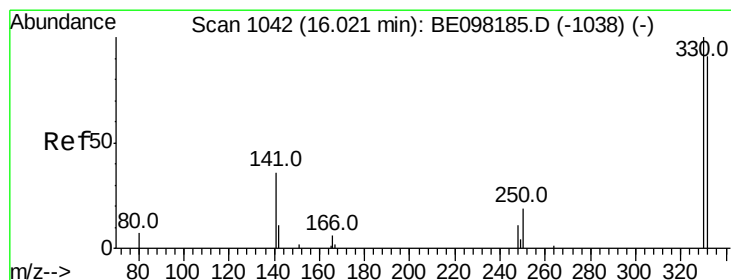
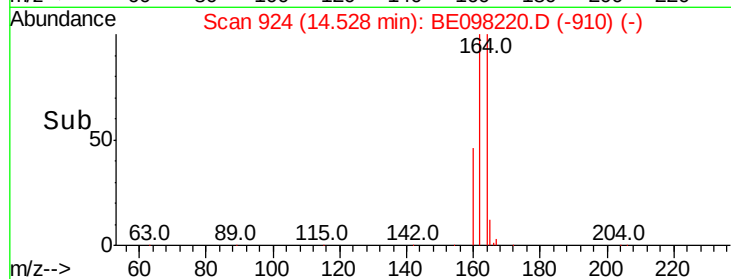
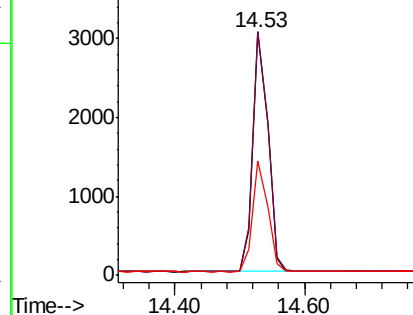
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 4899  
Ion Ratio Lower Upper  
164 100  
162 99.8 81.8 122.6  
160 47.1 39.4 59.0

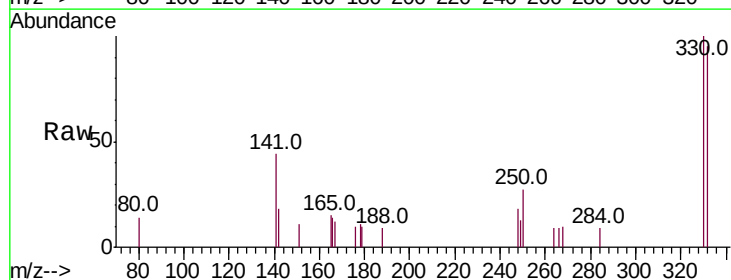


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

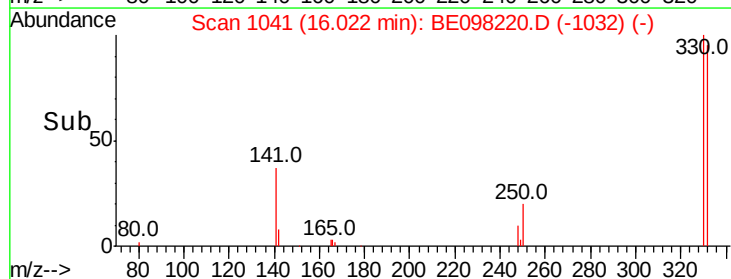
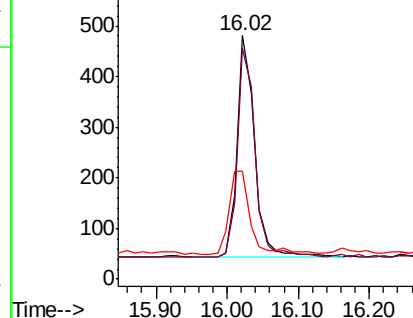


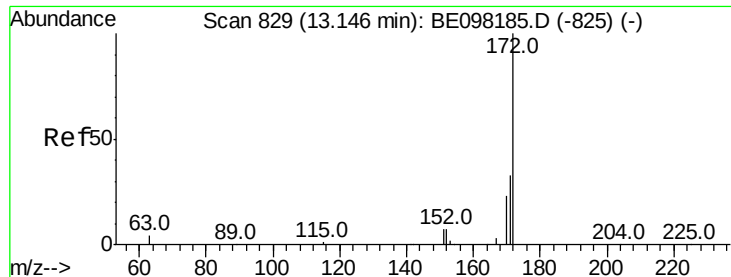
#14  
2,4,6-Tribromophenol  
Concen: 0.354 ng  
RT: 16.02 min Scan# 1041  
Delta R.T. 0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Tgt Ion:330 Resp: 756  
Ion Ratio Lower Upper  
330 100  
332 95.9 77.7 116.5  
141 42.3 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

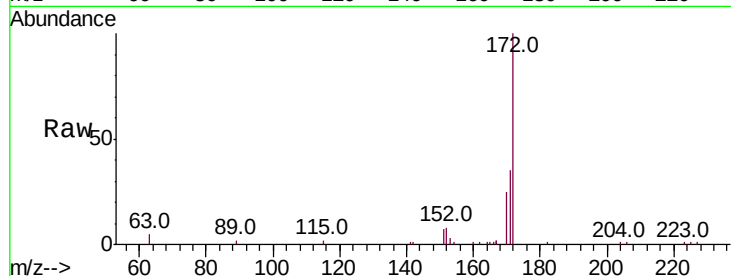




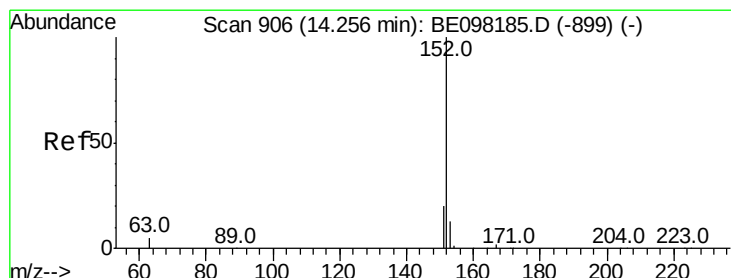
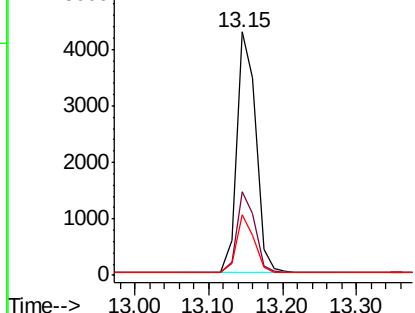
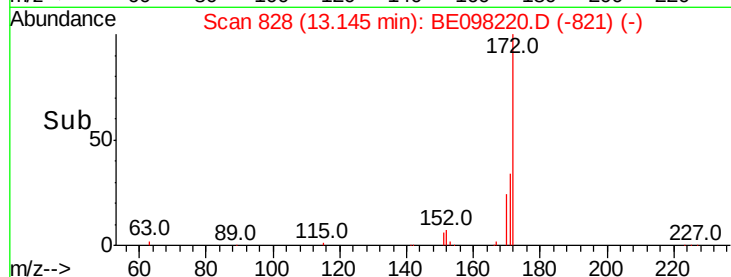
#15  
2-Fluorobiphenyl  
Concen: 0.375 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 7687  
Ion Ratio Lower Upper  
172 100  
171 34.6 27.3 40.9  
170 25.0 19.4 29.0

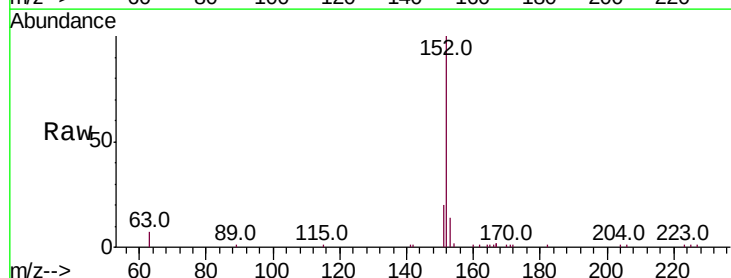


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

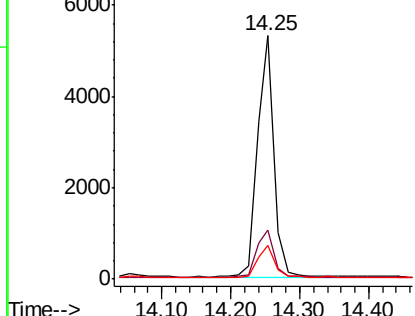
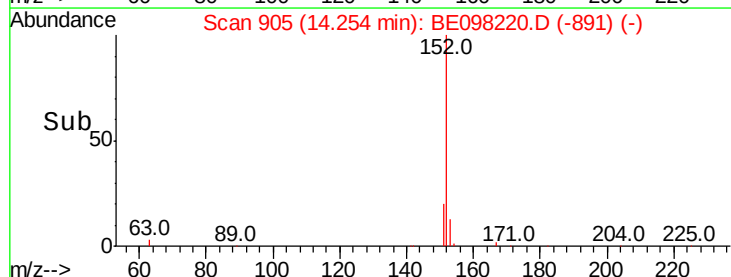


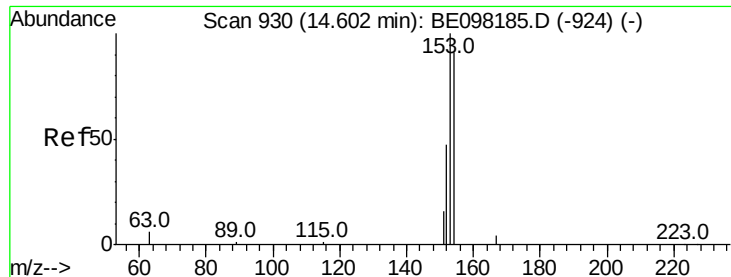
#16  
Acenaphthylene  
Concen: 0.392 ng  
RT: 14.25 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Tgt Ion:152 Resp: 8813  
Ion Ratio Lower Upper  
152 100  
151 20.1 16.4 24.6  
153 13.2 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

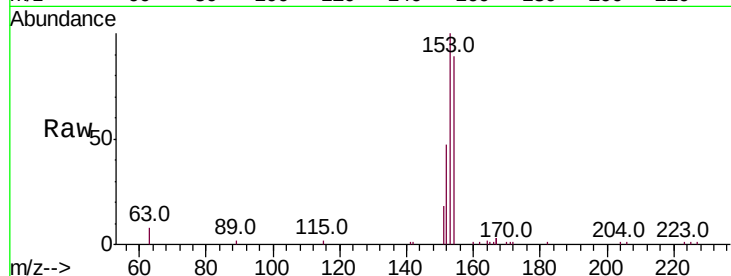




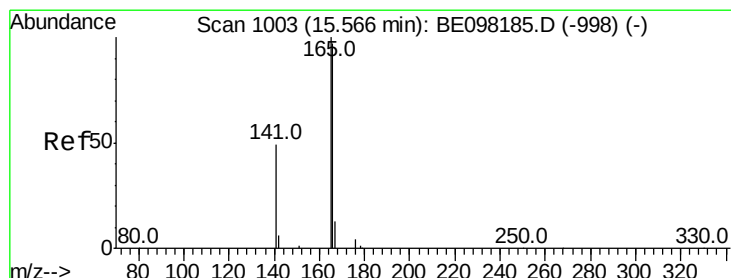
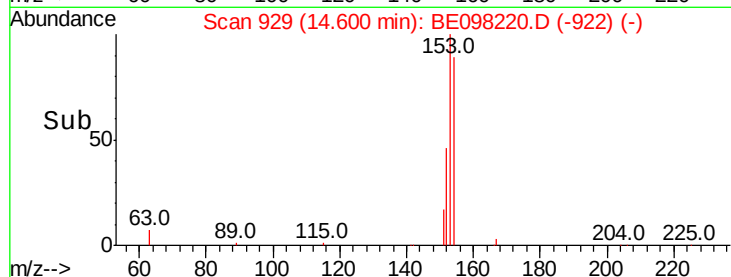
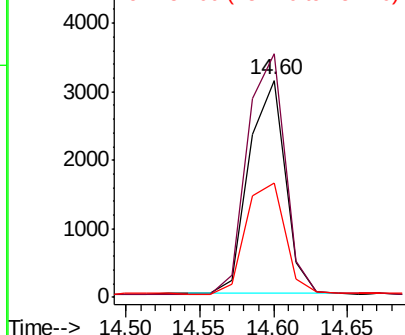
#17  
Acenaphthene  
Concen: 0.384 ng  
RT: 14.60 min Scan# 929  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 5263  
Ion Ratio Lower Upper  
154 100  
153 117.7 92.1 138.1  
152 56.5 46.2 69.2

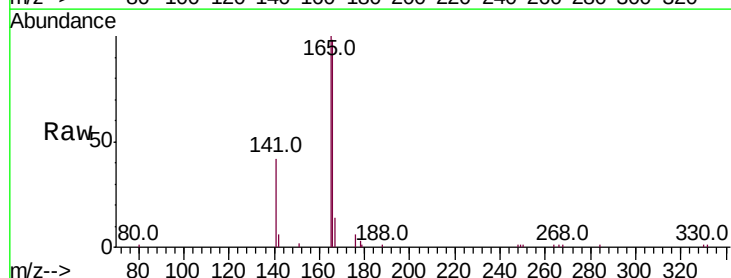


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

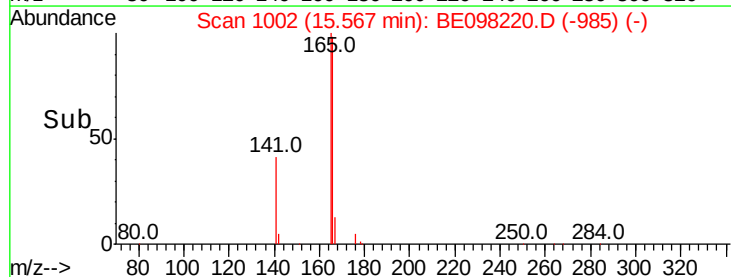
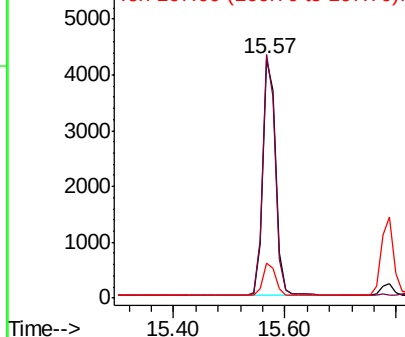


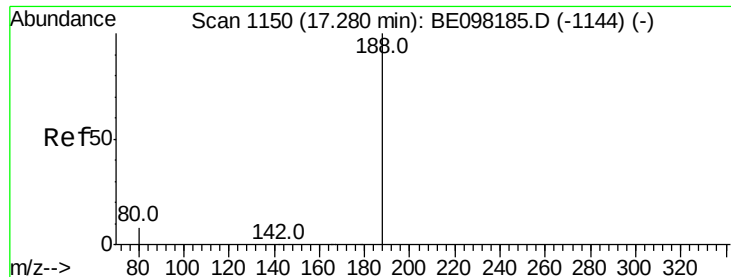
#18  
Fluorene  
Concen: 0.392 ng  
RT: 15.57 min Scan# 1002  
Delta R.T. 0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Tgt Ion:166 Resp: 6881  
Ion Ratio Lower Upper  
166 100  
165 99.4 80.1 120.1  
167 13.8 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: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampled :

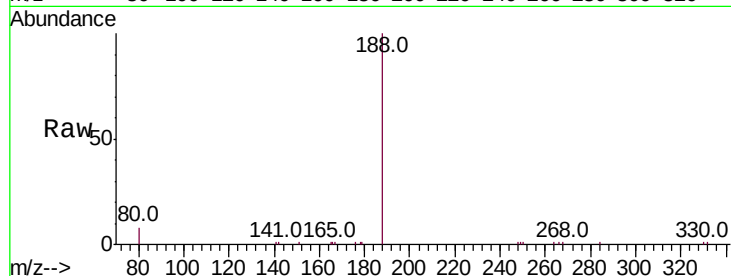
Tot Ion:188 Resp: 11487

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

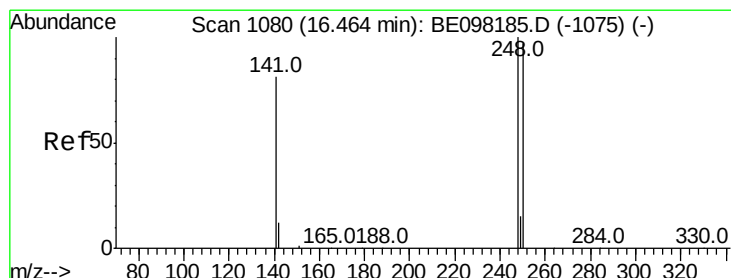
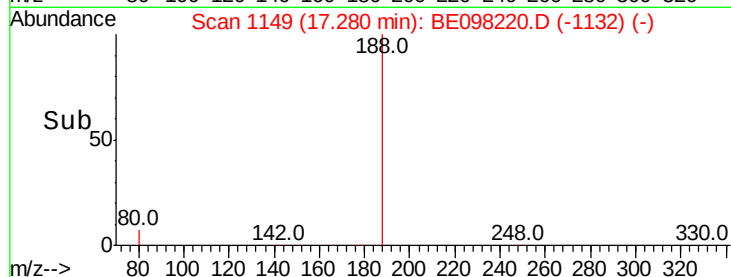
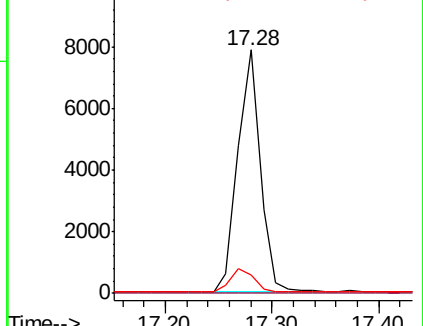
80 7.6 6.7 10.1



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: 0.381 ng

RT: 16.46 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

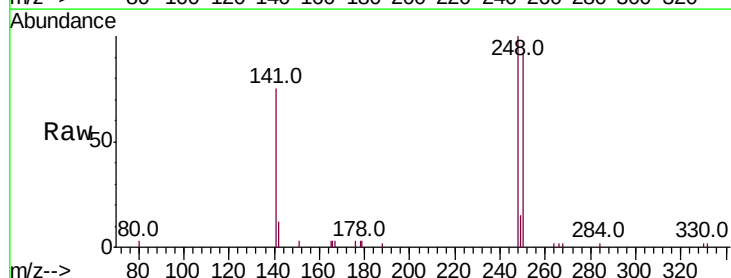
Tgt Ion:248 Resp: 2664

Ion Ratio Lower Upper

248 100

250 92.3 77.6 116.4

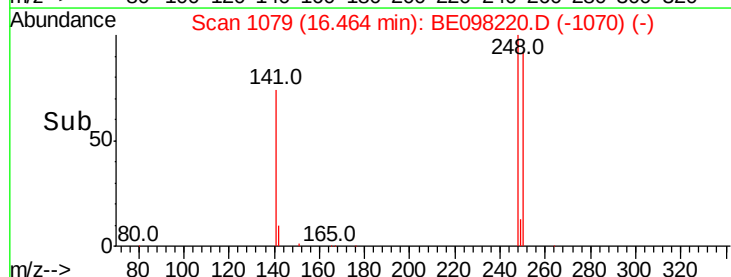
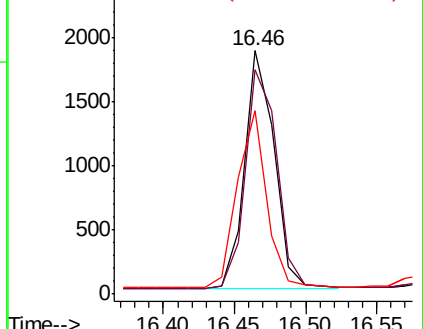
141 75.3 65.8 98.8

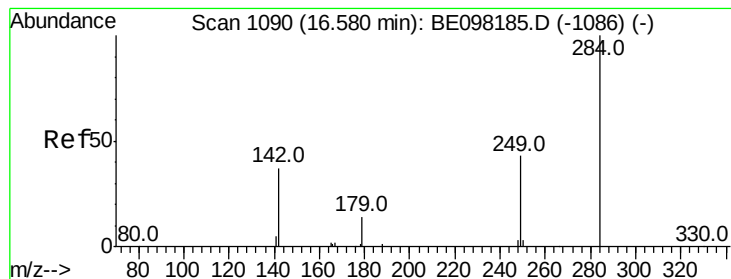


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.383 ng

RT: 16.58 min Scan# 1089

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

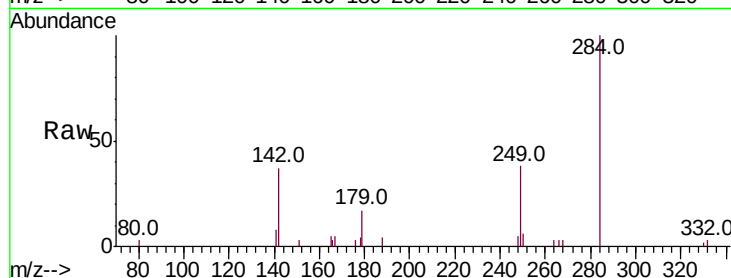
Instrument :

BNA\_E

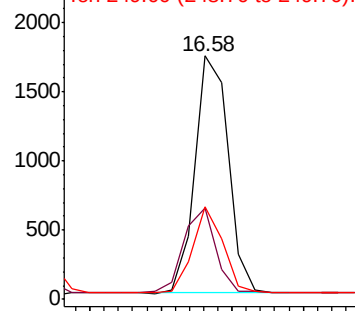
ClientSampleId :

Tot Ion:284 Resp: 2786

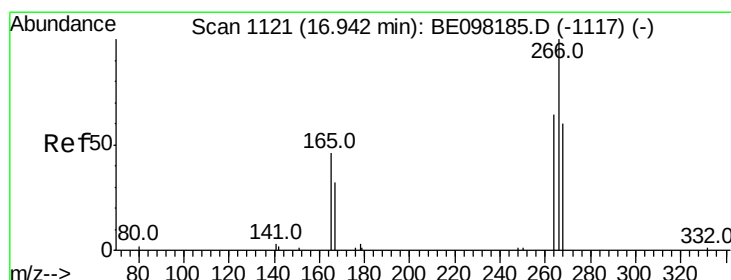
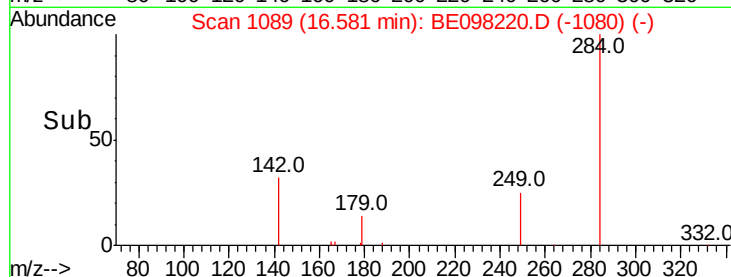
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 284 | 100   |       |       |
| 142 | 34.4  | 26.5  | 39.7  |
| 249 | 33.5  | 28.4  | 42.6  |



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



Time-->



#22

Pentachlorophenol

Concen: 0.442 ng

RT: 16.94 min Scan# 1120

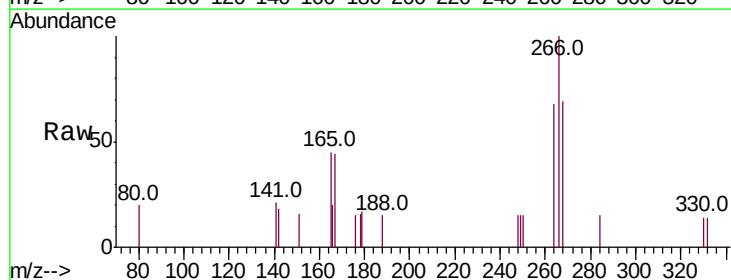
Delta R.T. 0.00 min

Lab File: BE098220.D

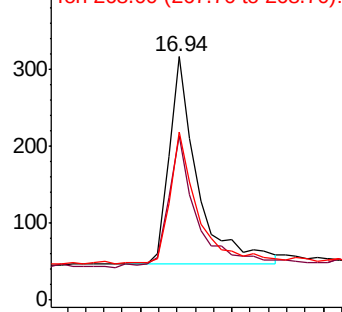
Acq: 13 Nov 2018 22:11

Tgt Ion:266 Resp: 588

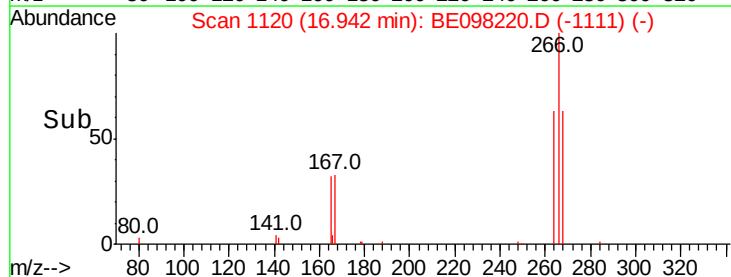
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 264 | 67.5  | 57.6  | 86.4  |
| 268 | 68.8  | 56.8  | 85.2  |

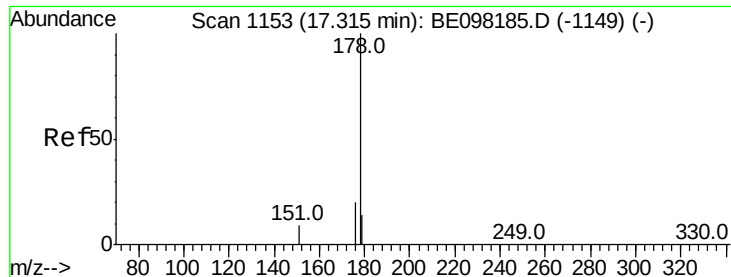


Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E



Time-->





#23

Phenanthrene

Concen: 0.395 ng

RT: 17.32 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampled :

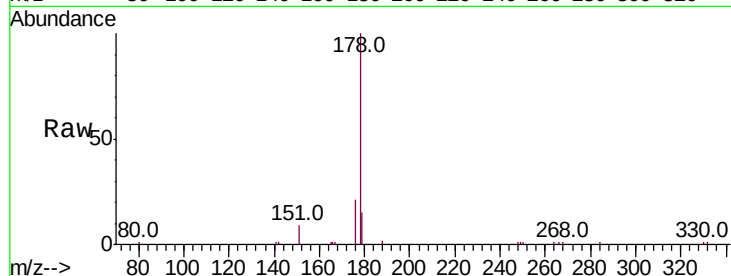
Tot Ion:178 Resp: 11295

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

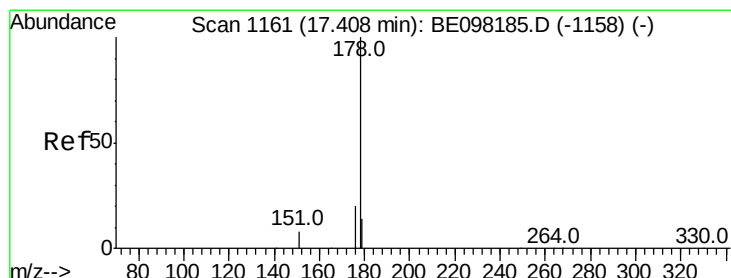
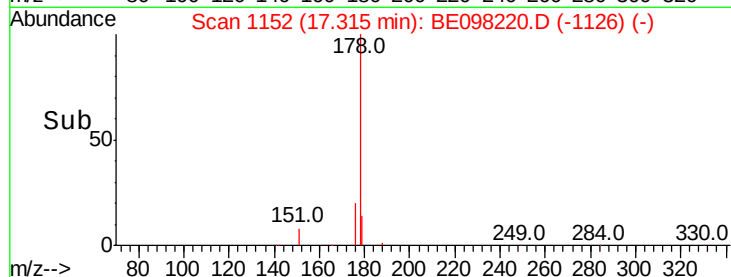
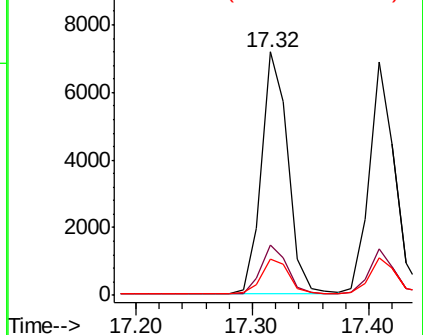
179 14.9 12.3 18.5



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: 0.388 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

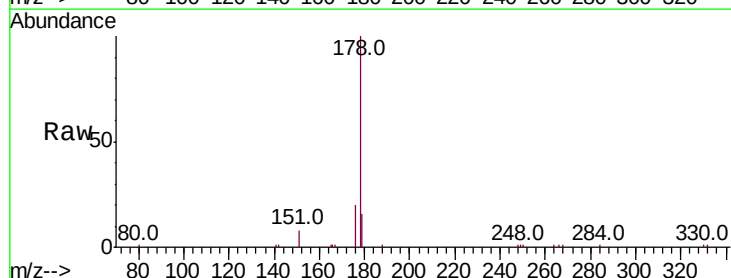
Tgt Ion:178 Resp: 10345

Ion Ratio Lower Upper

178 100

176 18.7 15.7 23.5

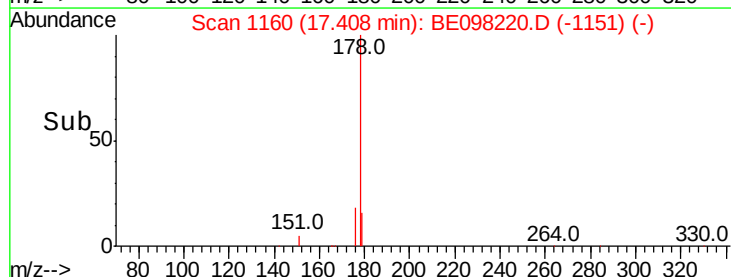
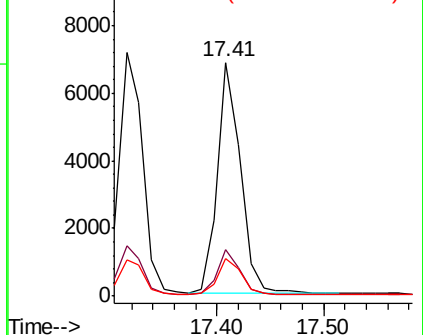
179 15.8 12.1 18.1

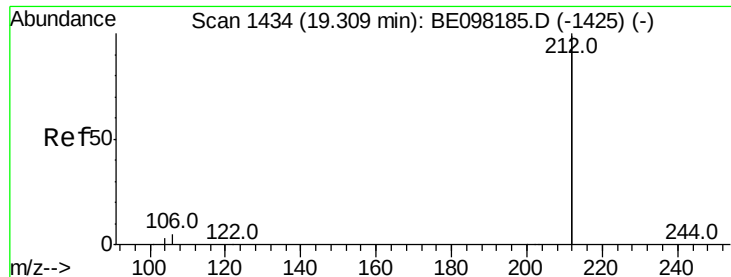


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.398 ng

RT: 19.31 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

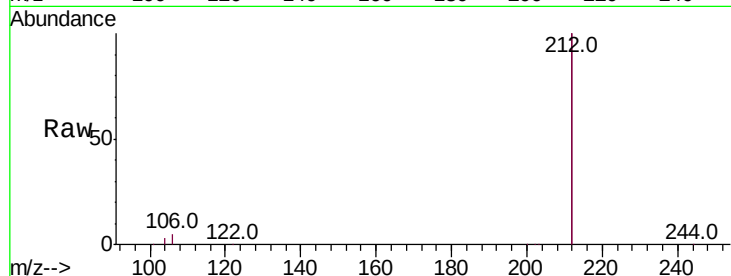
Tot Ion:212 Resp: 57081

Ion Ratio Lower Upper

212 100

106 2.6 1.8 2.8

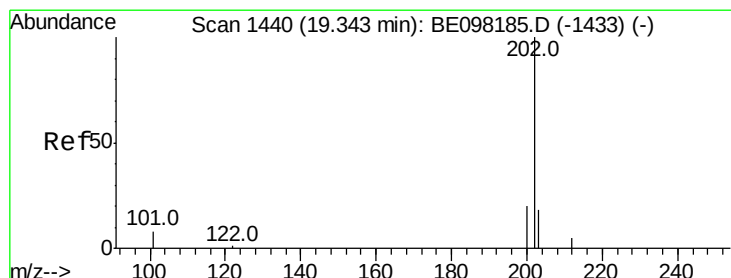
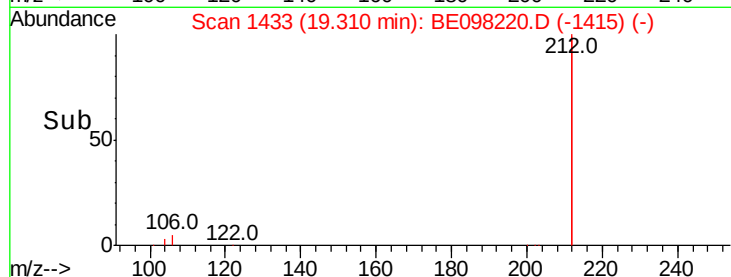
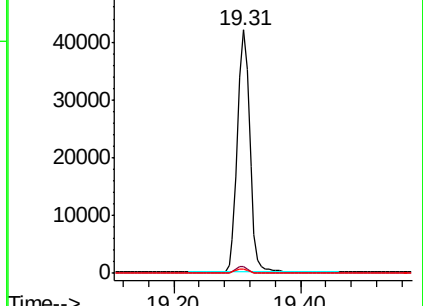
104 1.5 1.1 1.7



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: 0.398 ng

RT: 19.34 min Scan# 1438

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

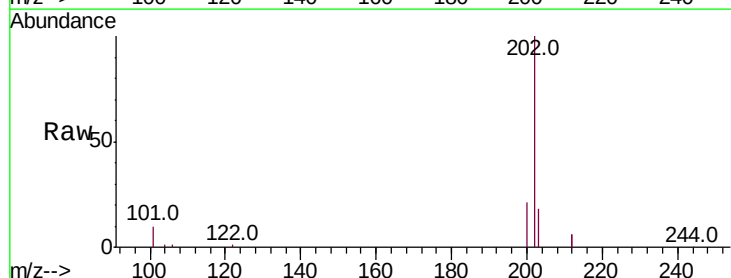
Tgt Ion:202 Resp: 14101

Ion Ratio Lower Upper

202 100

101 9.8 7.0 10.6

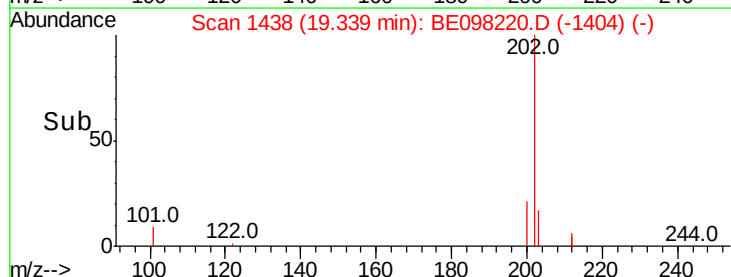
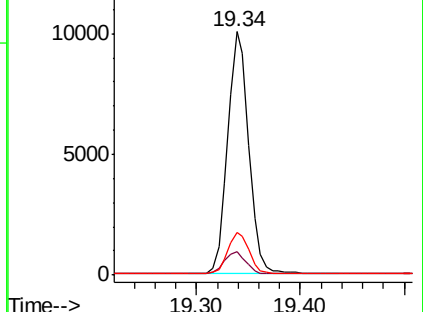
203 17.2 13.7 20.5

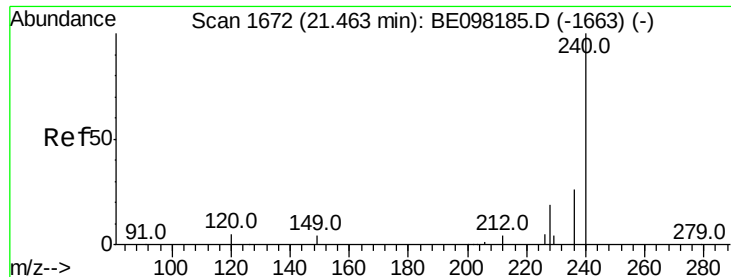


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

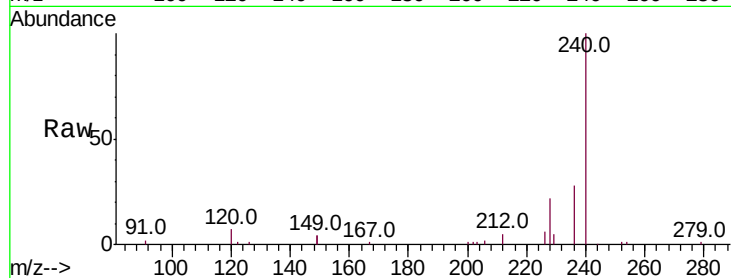
Tot Ion:240 Resp: 13631

Ion Ratio Lower Upper

240 100

120 7.4 4.8 7.2#

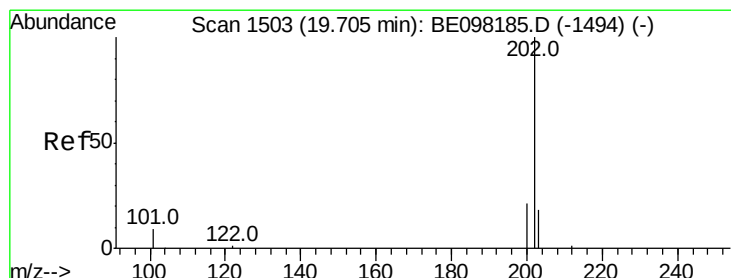
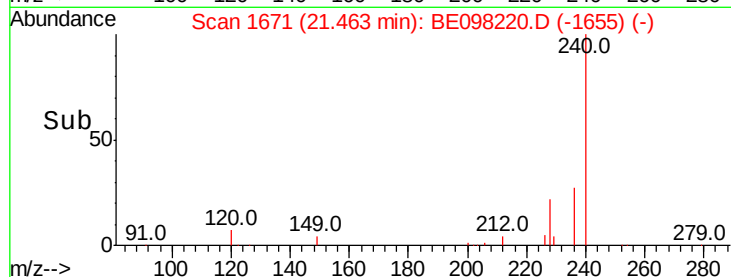
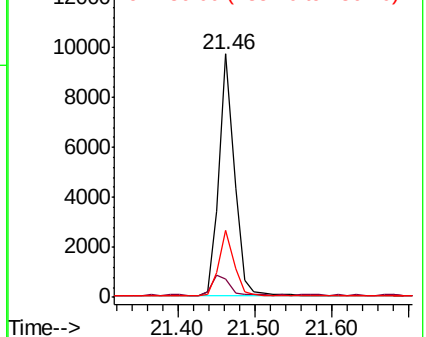
236 27.7 21.4 32.0



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: 0.387 ng

RT: 19.70 min Scan# 1501

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

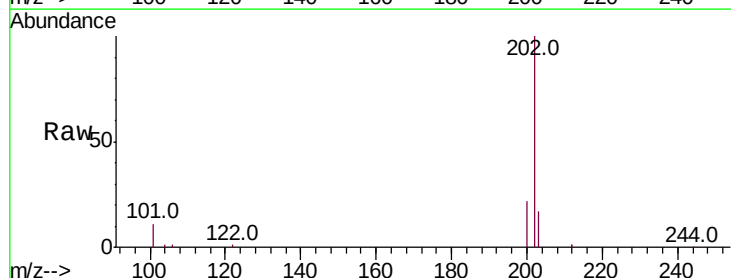
Tgt Ion:202 Resp: 14506

Ion Ratio Lower Upper

202 100

200 21.0 17.2 25.8

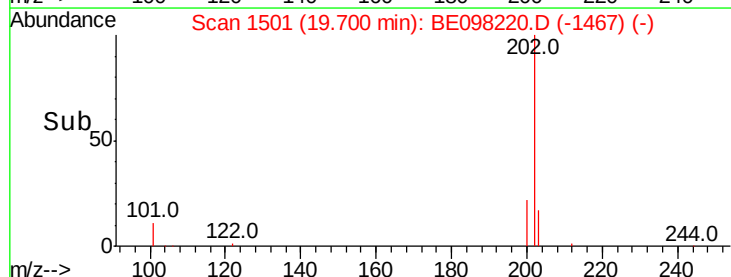
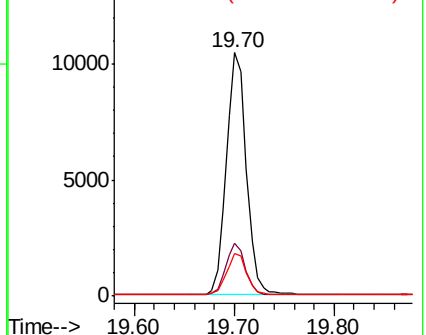
203 17.2 14.2 21.4



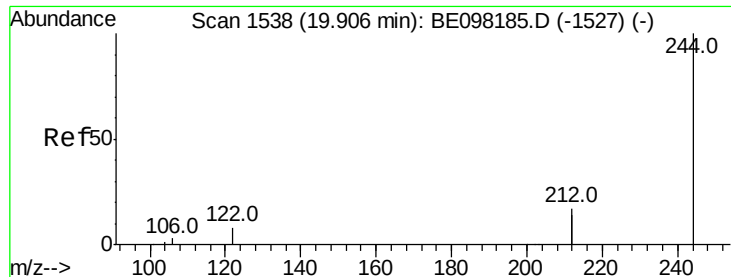
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.369 ng

RT: 19.91 min Scan# 1537

Delta R.T. 0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

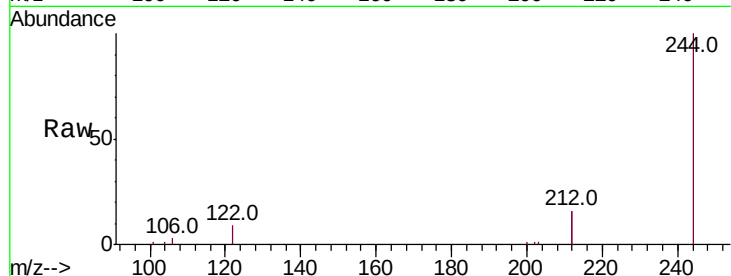
Tot Ion:244 Resp: 11411

Ion Ratio Lower Upper

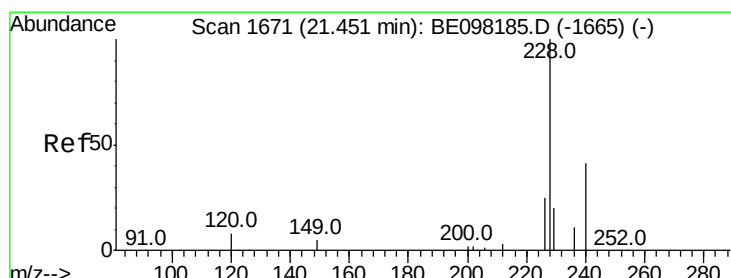
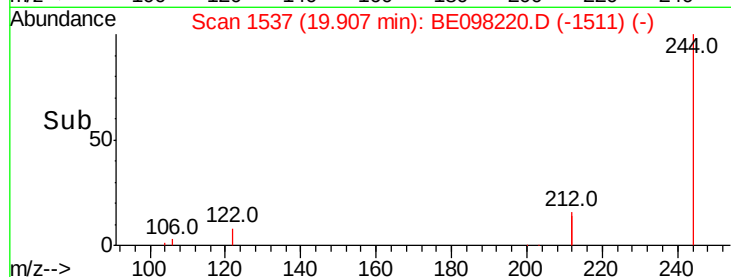
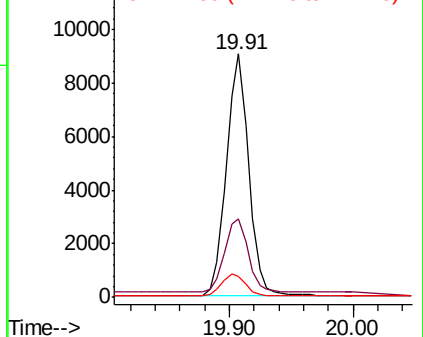
244 100

212 32.2 26.8 40.2

122 8.8 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: 0.380 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

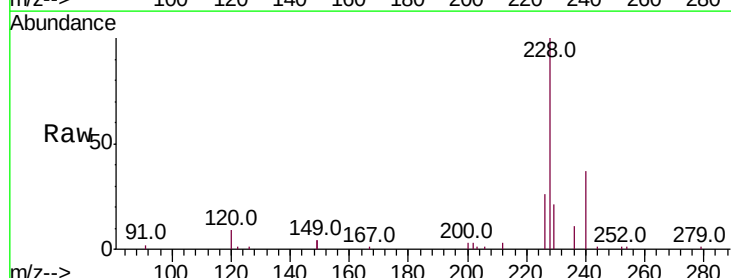
Tgt Ion:228 Resp: 14716

Ion Ratio Lower Upper

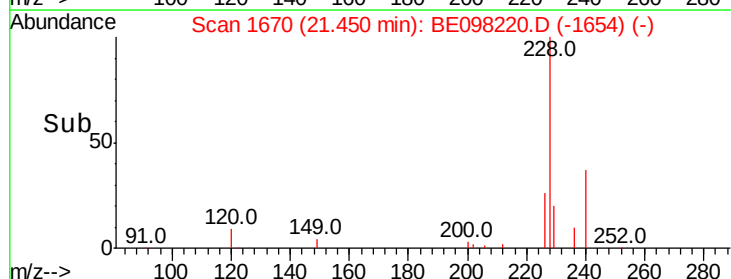
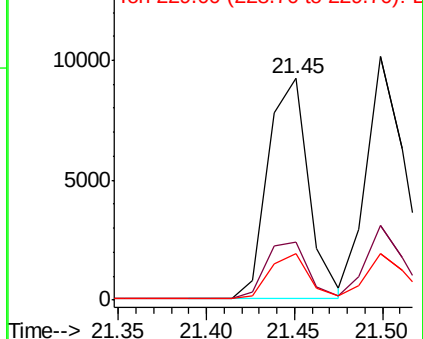
228 100

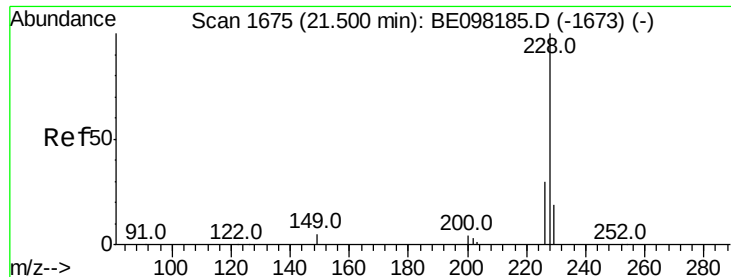
226 26.4 20.7 31.1

229 20.8 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: 0.375 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

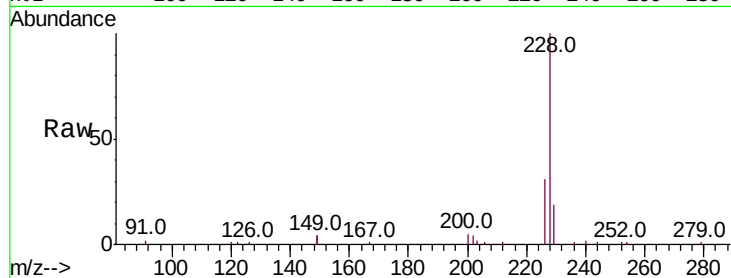
Tot Ion:228 Resp: 14753

Ion Ratio Lower Upper

228 100

226 30.6 24.6 36.8

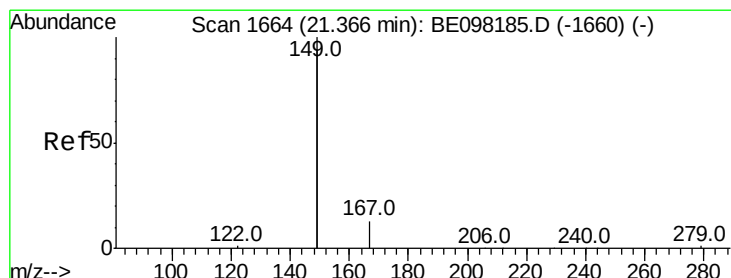
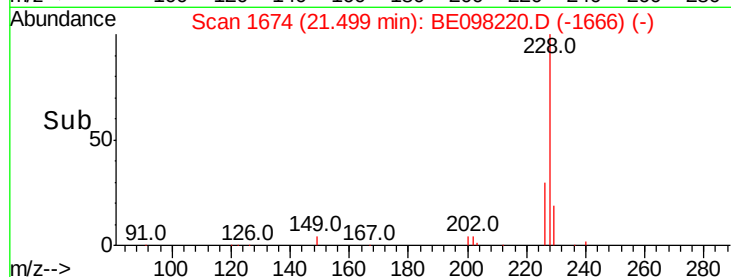
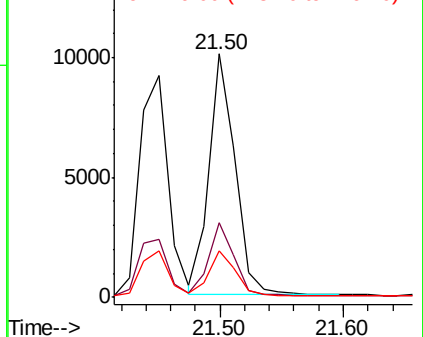
229 19.1 16.0 24.0



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: 0.421 ng

RT: 21.37 min Scan# 1663

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

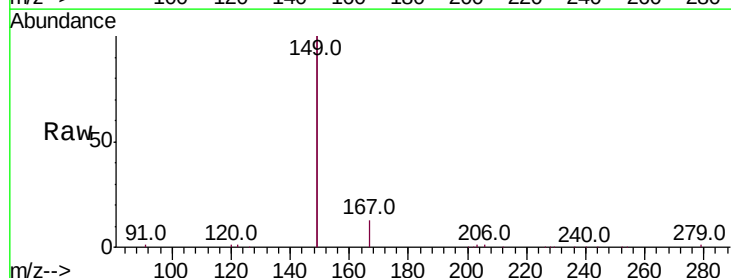
Tgt Ion:149 Resp: 33843

Ion Ratio Lower Upper

149 100

167 6.9 5.6 8.4

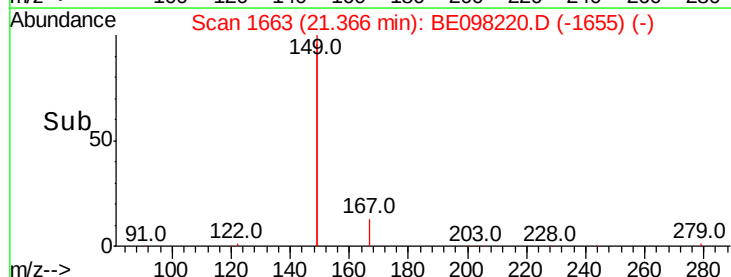
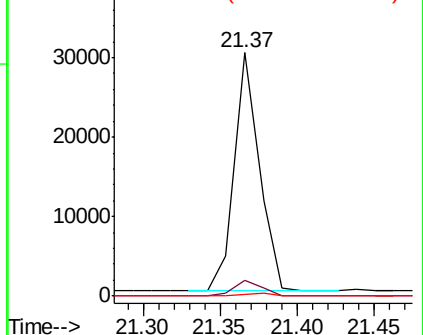
279 1.0 0.9 1.3

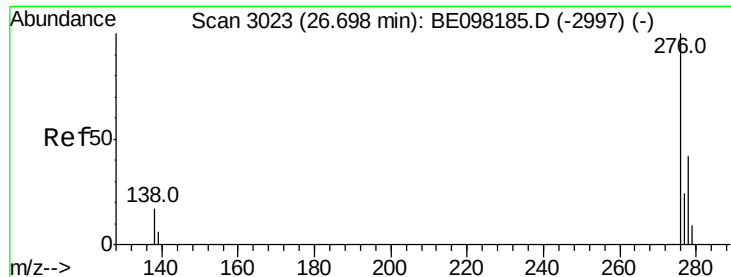


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

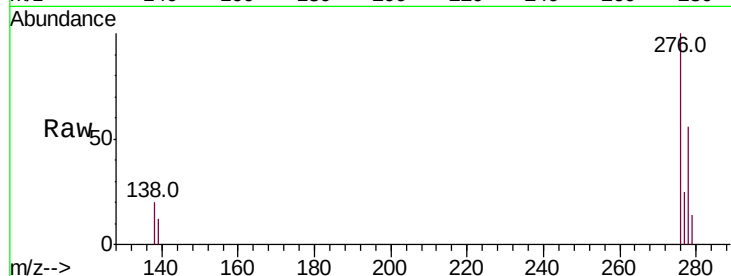




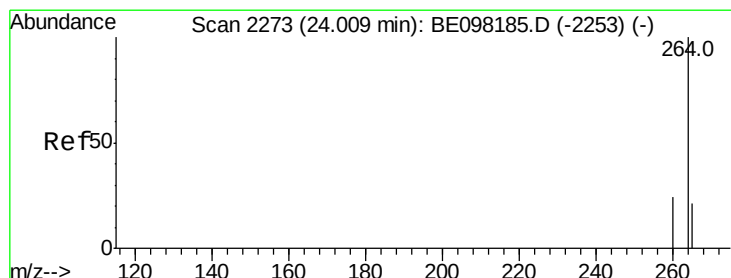
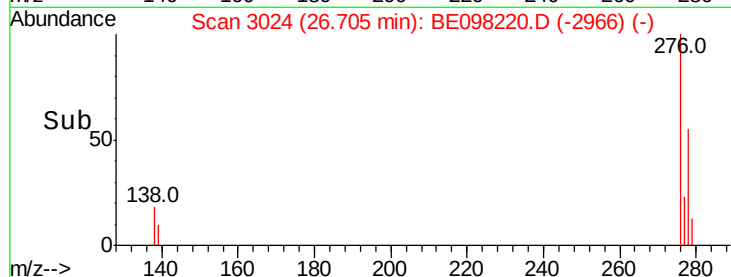
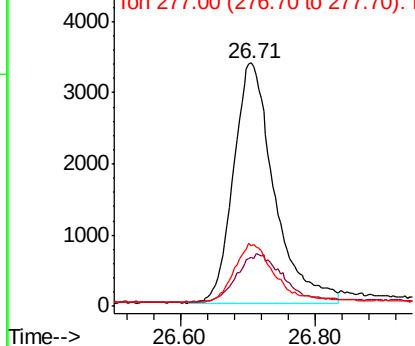
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.391 ng  
 RT: 26.71 min Scan# 3024  
 Delta R.T. 0.01 min  
 Lab File: BE098220.D  
 Acq: 13 Nov 2018 22:11

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 14094  
 Ion Ratio Lower Upper  
 276 100  
 138 22.3 6.4 9.6#  
 277 24.4 18.9 28.3

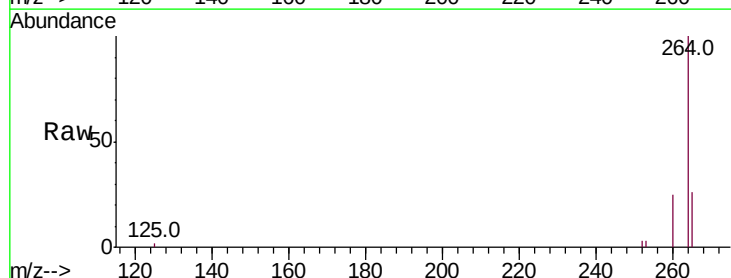


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

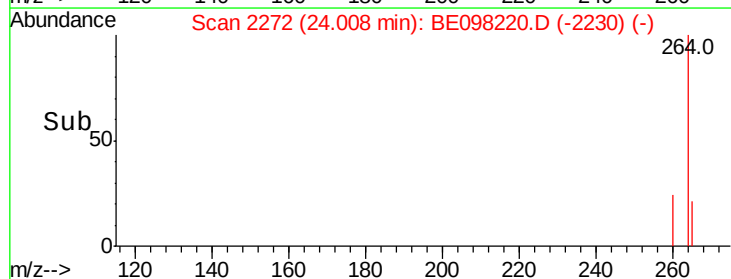
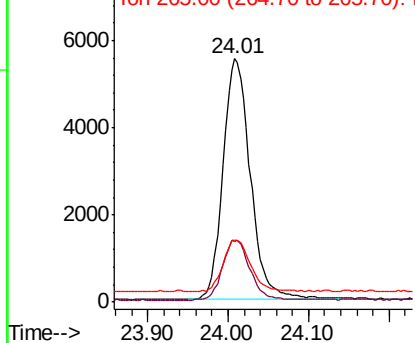


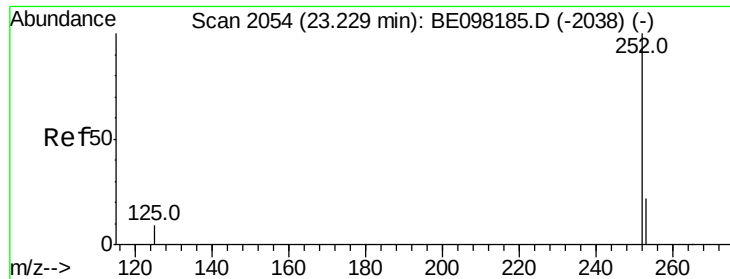
#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.01 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: BE098220.D  
 Acq: 13 Nov 2018 22:11

Tgt Ion:264 Resp: 12999  
 Ion Ratio Lower Upper  
 264 100  
 260 25.1 19.9 29.9  
 265 25.6 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: 0.376 ng

RT: 23.22 min Scan# 2052

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :

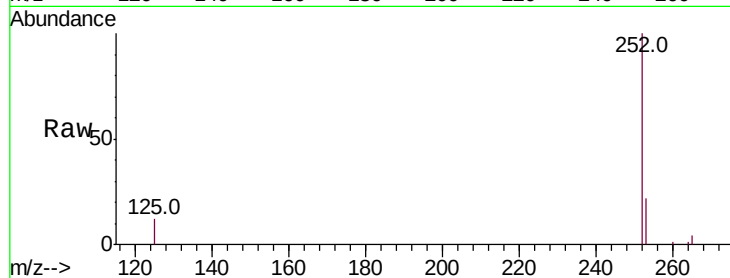
Tot Ion:252 Resp: 13875

Ion Ratio Lower Upper

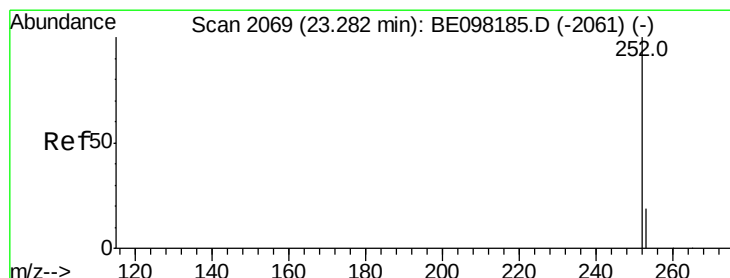
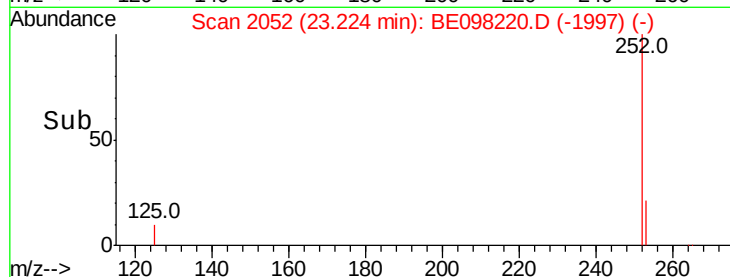
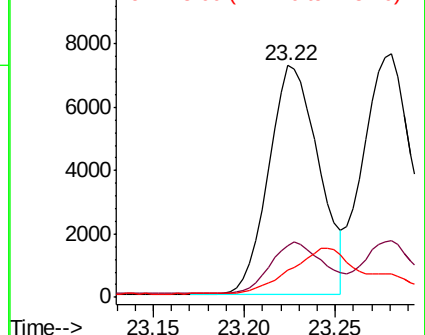
252 100

253 22.3 19.4 29.0

125 11.6 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: 0.379 ng

RT: 23.28 min Scan# 2068

Delta R.T. -0.00 min

Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

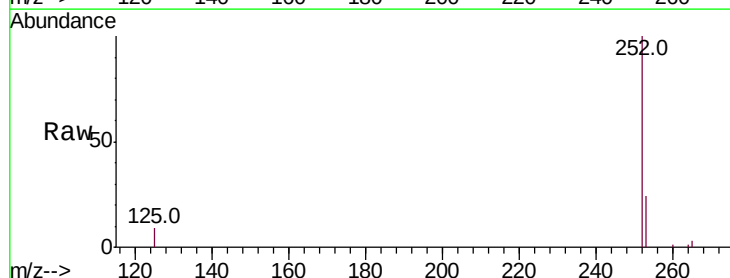
Tgt Ion:252 Resp: 14761

Ion Ratio Lower Upper

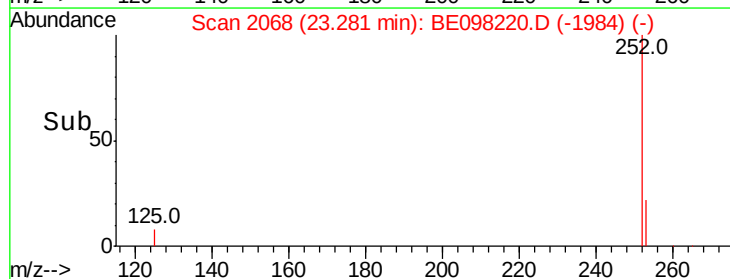
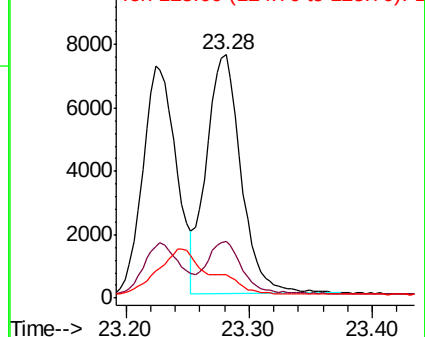
252 100

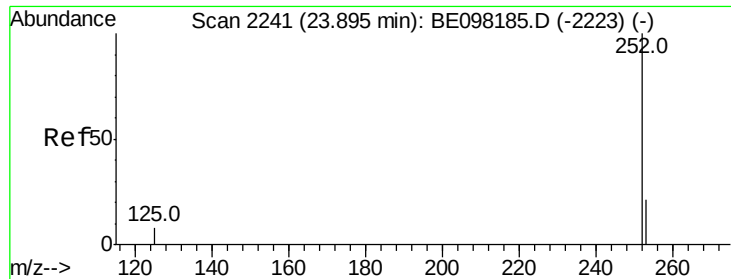
253 23.5 18.6 28.0

125 9.4 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

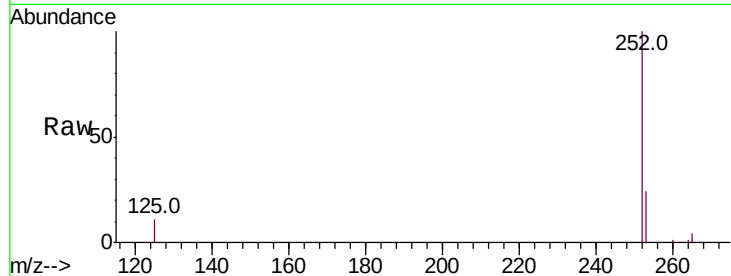




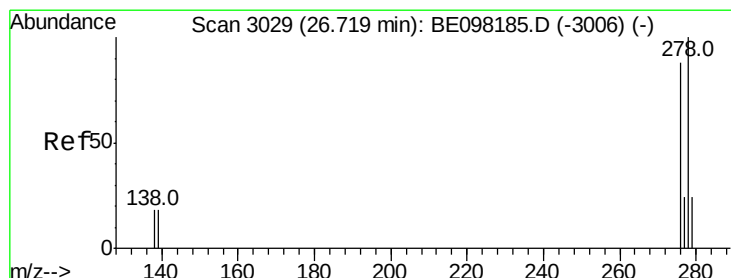
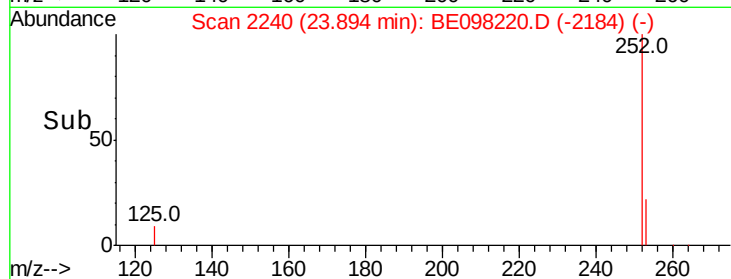
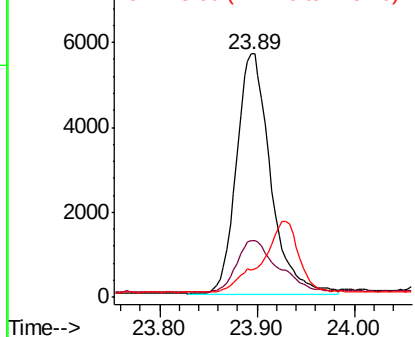
#37  
Benzo(a)pyrene  
Concen: 0.386 ng  
RT: 23.89 min Scan# 2240  
Delta R.T. -0.00 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 13652  
Ion Ratio Lower Upper  
252 100  
253 23.5 18.6 27.8  
125 11.1 8.0 12.0

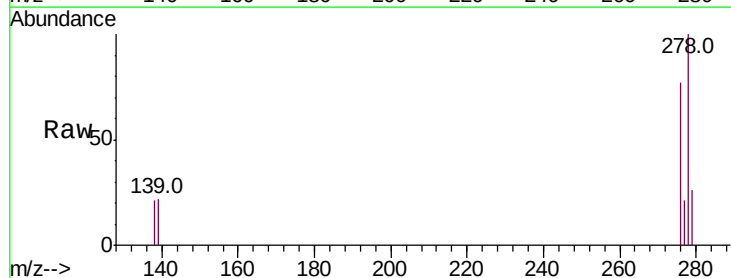


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

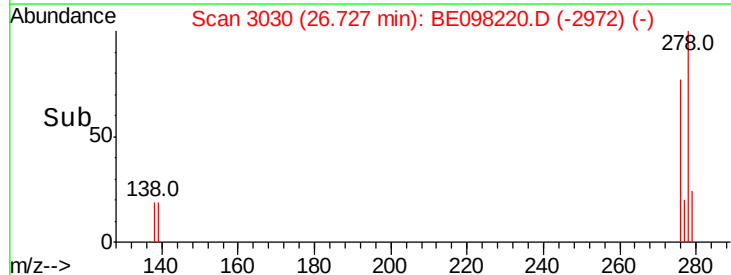
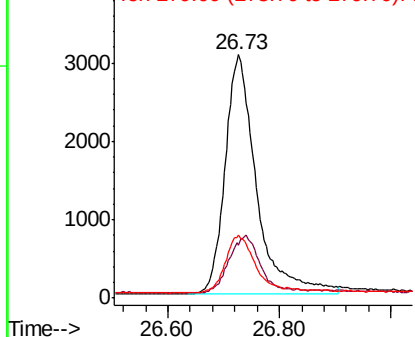


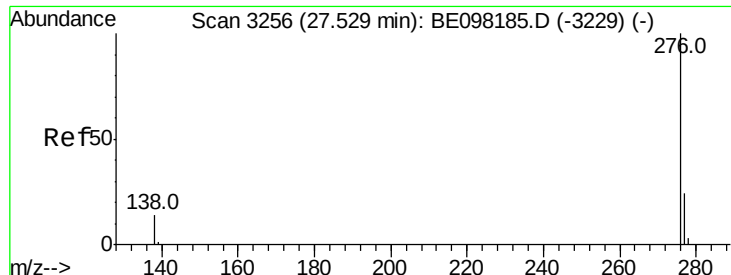
#38  
Dibenzo(a,h)anthracene  
Concen: 0.399 ng  
RT: 26.73 min Scan# 3030  
Delta R.T. 0.01 min  
Lab File: BE098220.D  
Acq: 13 Nov 2018 22:11

Tgt Ion:278 Resp: 12031  
Ion Ratio Lower Upper  
278 100  
139 21.7 16.4 24.6  
279 25.8 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: 0.382 ng

RT: 27.53 min Scan# 3255

Delta R.T. 0.00 min

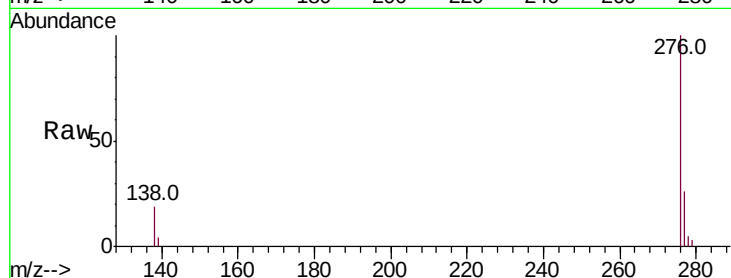
Lab File: BE098220.D

Acq: 13 Nov 2018 22:11

Instrument :

BNA\_E

ClientSampleId :



Tot Ion:276 Resp: 12022

Ion Ratio Lower Upper

276 100

277 26.0 20.4 30.6

138 18.5 13.2 19.8

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

