

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE010419\  
 Data File : BE098615.D  
 Acq On : 4 Jan 2019 14:58  
 Operator : SJ/JU  
 Sample : PB116164BS  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116164BS

Quant Time: Jan 04 21:12:39 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 02 10:30:27 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 1191     | 0.40 | ng    | 0.02     |
| 7) Naphthalene-d8         | 10.63 | 136  | 4880     | 0.40 | ng    | 0.02     |
| 13) Acenaphthene-d10      | 14.48 | 164  | 2550     | 0.40 | ng    | 0.02     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 5562     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.41 | 240  | 6535     | 0.40 | ng    | 0.01     |
| 34) Perylene-d12          | 23.94 | 264  | 7246     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.42  | 112  | 1018     | 0.37 | ng    | 0.04     |
| 5) Phenol-d6                | 7.01  | 99   | 1419     | 0.36 | ng    | 0.02     |
| 8) Nitrobenzene-d5          | 8.99  | 82   | 1305     | 0.29 | ng    | 0.03     |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152  | 2438     | 0.31 | ng    | 0.02     |
| 14) 2,4,6-Tribromophenol    | 15.99 | 330  | 272      | 0.29 | ng    | 0.02     |
| 15) 2-Fluorobiphenyl        | 13.12 | 172  | 3077     | 0.29 | ng    | 0.03     |
| 25) Fluoranthene-d10        | 19.27 | 212  | 19933    | 0.28 | ng    | 0.02     |
| 29) Terphenyl-d14           | 19.87 | 244  | 4244     | 0.27 | ng    | 0.02     |

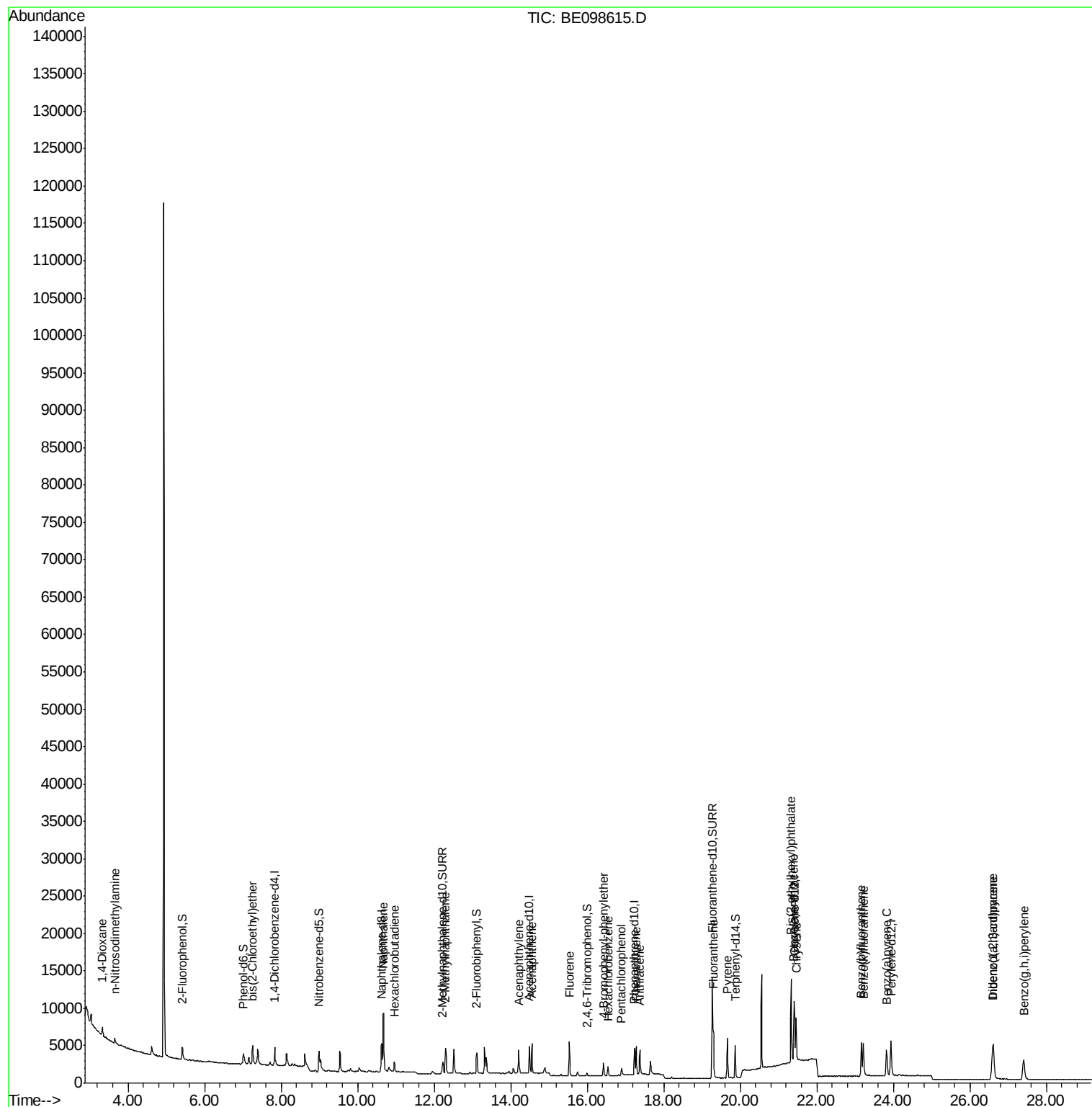
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.32  | 88   | 548      | 0.266 | ng    | # 28   |
| 3) n-Nitrosodimethylamine      | 3.65  | 42   | 783      | 0.422 | ng    | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.25  | 93   | 1091     | 0.291 | ng    | 95     |
| 9) Naphthalene                 | 10.68 | 128  | 15605    | 0.318 | ng    | 99     |
| 10) Hexachlorobutadiene        | 10.95 | 225  | 968      | 0.310 | ng    | 97     |
| 12) 2-Methylnaphthalene        | 12.30 | 142  | 2533     | 0.317 | ng    | 95     |
| 16) Acenaphthylene             | 14.21 | 152  | 3595     | 0.301 | ng    | 98     |
| 17) Acenaphthene               | 14.56 | 154  | 2194     | 0.306 | ng    | 98     |
| 18) Fluorene                   | 15.53 | 166  | 2871     | 0.299 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.43 | 248  | 894      | 0.299 | ng    | 88     |
| 21) Hexachlorobenzene          | 16.55 | 284  | 994      | 0.309 | ng    | 96     |
| 22) Pentachlorophenol          | 16.90 | 266  | 691      | 1.086 | ng    | 96     |
| 23) Phenanthrene               | 17.28 | 178  | 4329     | 0.320 | ng    | 99     |
| 24) Anthracene                 | 17.37 | 178  | 3824     | 0.317 | ng    | 98     |
| 26) Fluoranthene               | 19.30 | 202  | 5215     | 0.292 | ng    | 98     |
| 28) Pyrene                     | 19.66 | 202  | 5377     | 0.262 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.40 | 228  | 5912     | 0.318 | ng    | 98     |
| 31) Chrysene                   | 21.46 | 228  | 5993     | 0.307 | ng    | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 21.33 | 149  | 12461    | 0.330 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.60 | 276  | 7853     | 0.405 | ng    | 97     |
| 35) Benzo(b)fluoranthene       | 23.16 | 252  | 6409     | 0.323 | ng    | 97     |
| 36) Benzo(k)fluoranthene       | 23.22 | 252  | 6798     | 0.294 | ng    | 96     |
| 37) Benzo(a)pyrene             | 23.82 | 252  | 6435     | 0.315 | ng    | 96     |
| 38) Dibenzo(a,h)anthracene     | 26.61 | 278  | 6554     | 0.340 | ng    | 99     |
| 39) Benzo(g,h,i)perylene       | 27.41 | 276  | 6904     | 0.356 | ng    | 98     |

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

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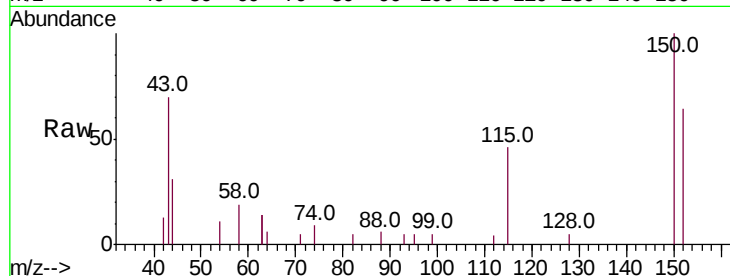


#1

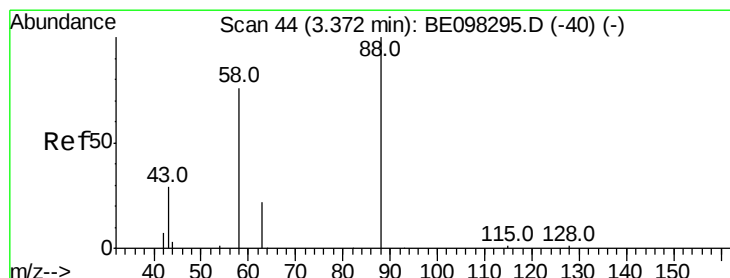
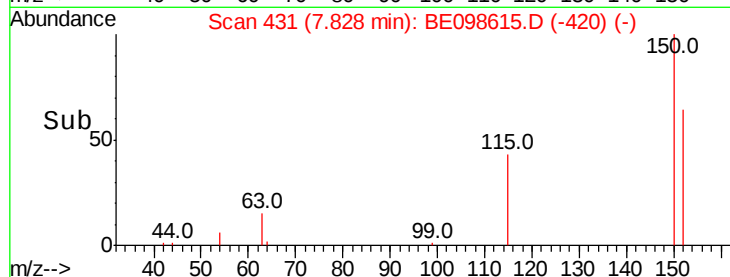
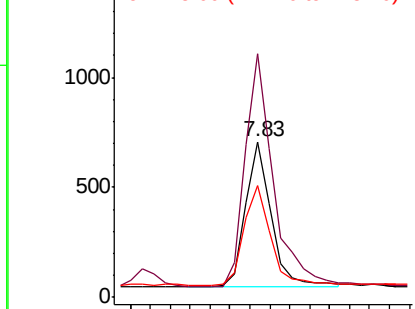
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.83 min Scan# 431  
 Delta R.T. 0.02 min  
 Lab File: BE098615.D  
 Acq: 4 Jan 2019 14:58

Instrument :  
 BNA\_E  
 ClientSampleID :  
 PB116164BS

Tot Ion:152 Resp: 1191  
 Ion Ratio Lower Upper  
 152 100  
 150 156.4 124.2 186.4  
 115 71.5 53.9 80.9



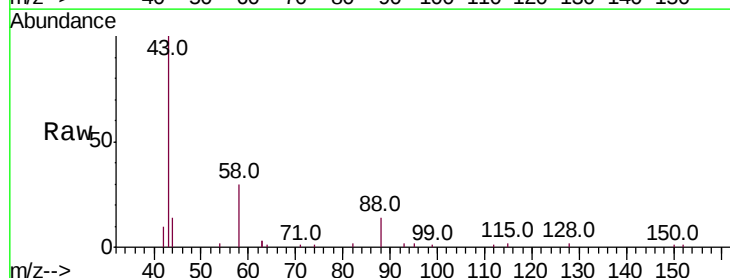
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



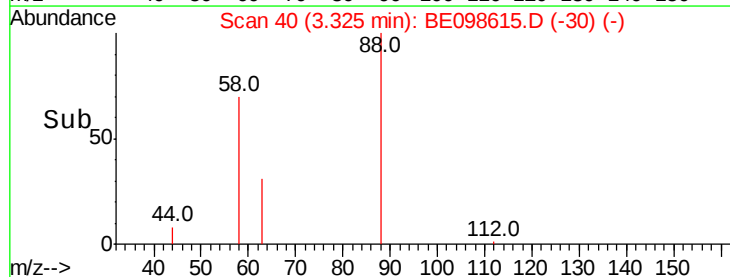
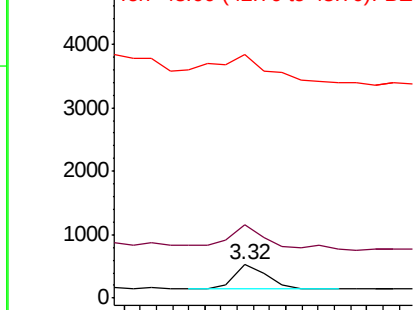
#2

1,4-Dioxane  
 Concen: 0.266 ng  
 RT: 3.32 min Scan# 40  
 Delta R.T. 0.01 min  
 Lab File: BE098615.D  
 Acq: 4 Jan 2019 14:58

Tgt Ion: 88 Resp: 548  
 Ion Ratio Lower Upper  
 88 100  
 58 102.0 75.0 112.6  
 43 179.9 38.3 57.5#



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: 0.422 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.01 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

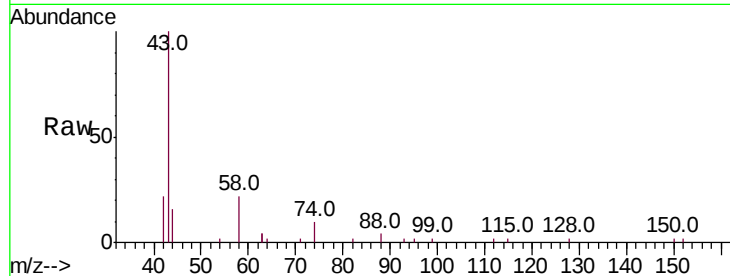
Tot Ion: 42 Resp: 783

Ion Ratio Lower Upper

42 100

74 75.9 0.0 0.0#

44 21.3 0.0 0.0#



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

3.65

600

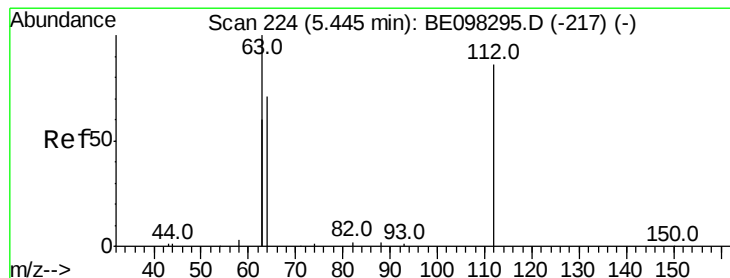
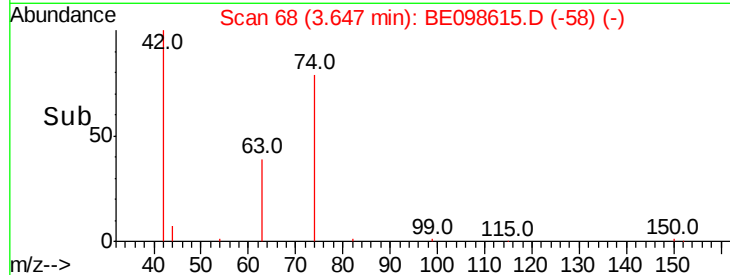
400

200

0

3.60 3.65 3.70

Time-->



#4

2-Fluorophenol

Concen: 0.365 ng

RT: 5.42 min Scan# 222

Delta R.T. 0.04 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

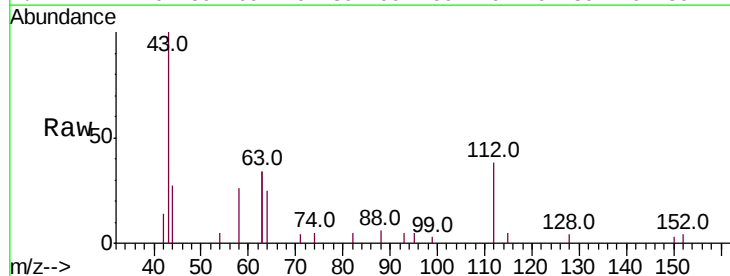
Tgt Ion: 112 Resp: 1018

Ion Ratio Lower Upper

112 100

64 83.0 59.8 89.8

63 187.9 133.7 200.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

1500

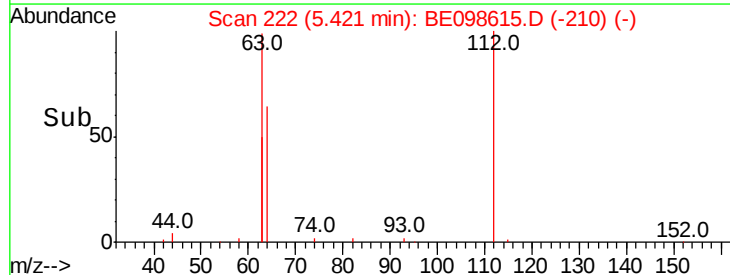
1000

500

0

5.30 5.40 5.50 5.60

Time-->





#5

Phenol-d6

Concen: 0.359 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

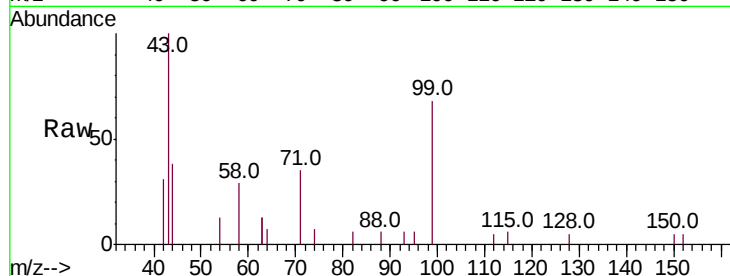
Tot Ion: 99 Resp: 1419

Ion Ratio Lower Upper

99 100

42 32.8 26.3 39.5

71 47.9 33.6 50.4



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

7.01

600

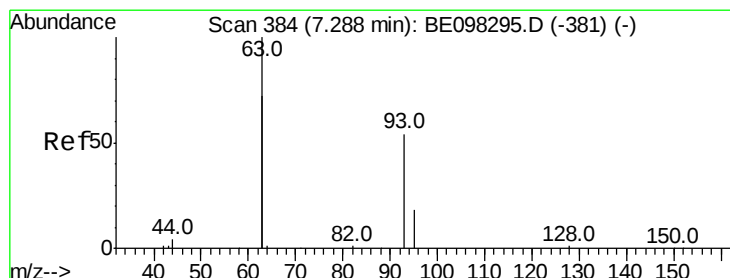
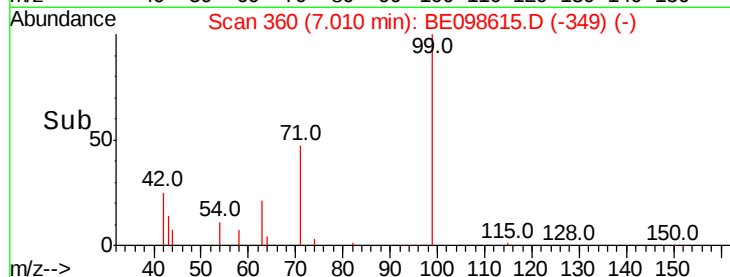
400

200

0

6.90 7.00 7.10 7.20

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.291 ng

RT: 7.25 min Scan# 381

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

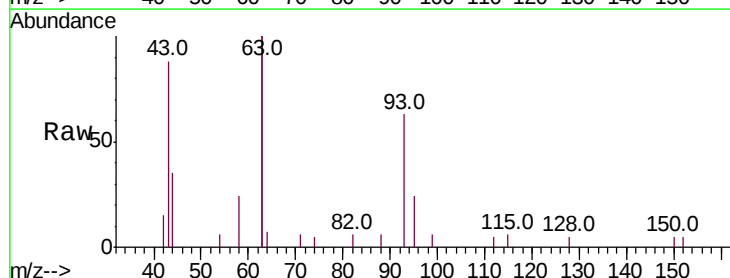
Tgt Ion: 93 Resp: 1091

Ion Ratio Lower Upper

93 100

63 341.7 264.4 396.6

95 36.6 26.6 40.0



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

2500

2000

1500

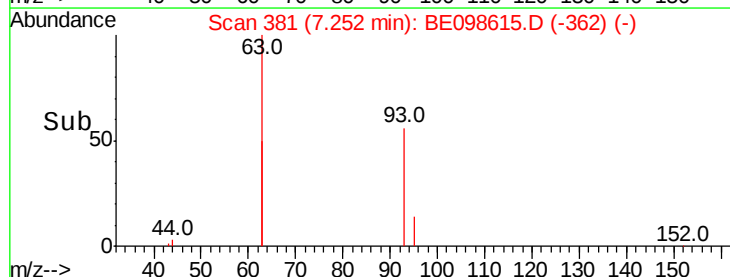
1000

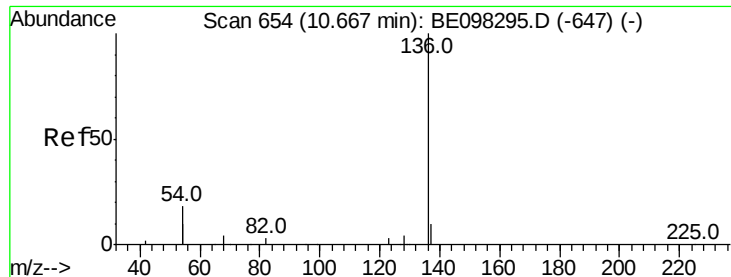
500

0

7.20 7.30 7.40

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

Tot Ion:136 Resp: 4880

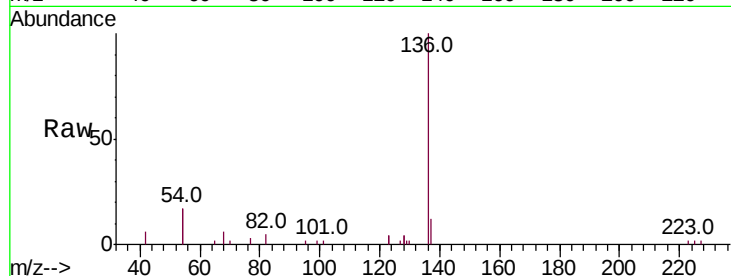
Ion Ratio Lower Upper

136 100

137 11.7 9.2 13.8

54 33.1 28.4 42.6

68 5.7 5.4 8.0

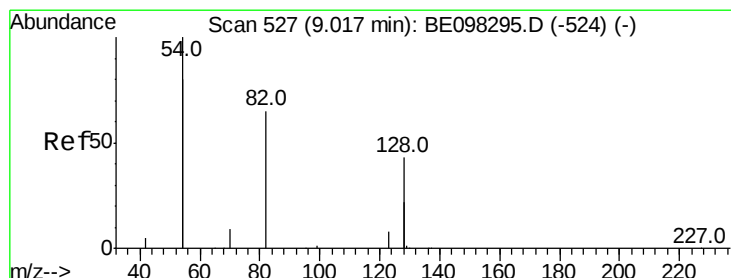
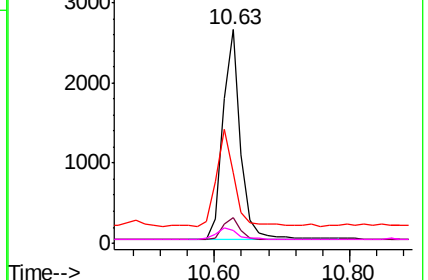
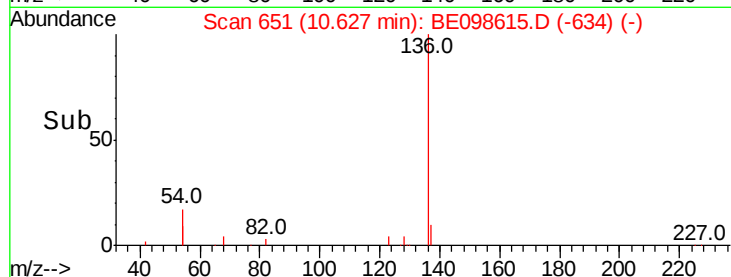


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.294 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.03 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

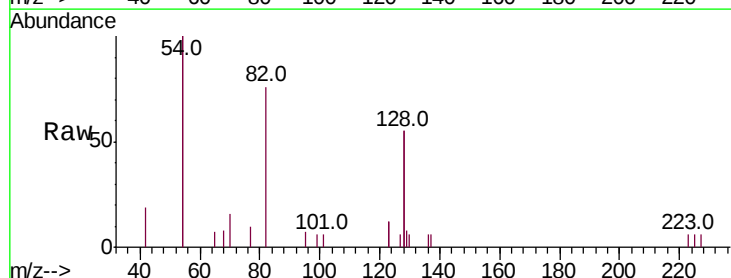
Tgt Ion: 82 Resp: 1305

Ion Ratio Lower Upper

82 100

128 146.6 102.4 153.6

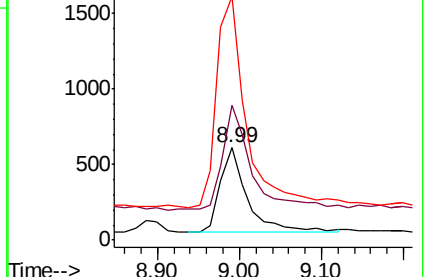
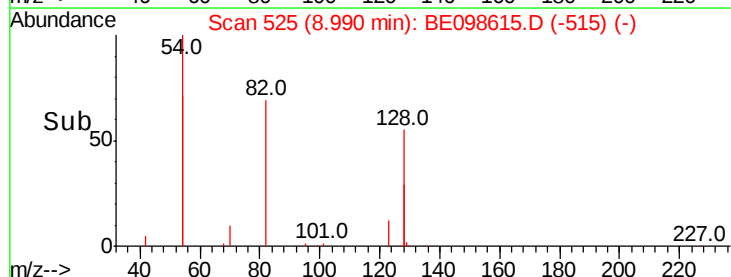
54 264.3 221.8 332.8

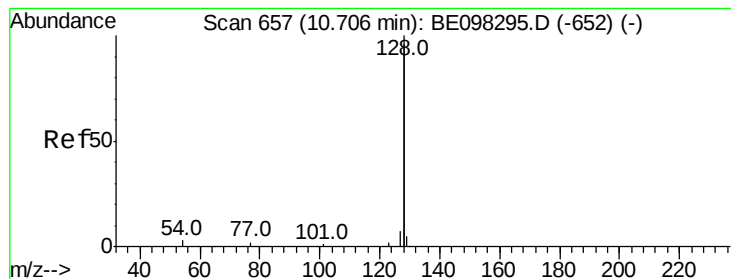


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.318 ng

RT: 10.68 min Scan# 655

Delta R.T. 0.03 min

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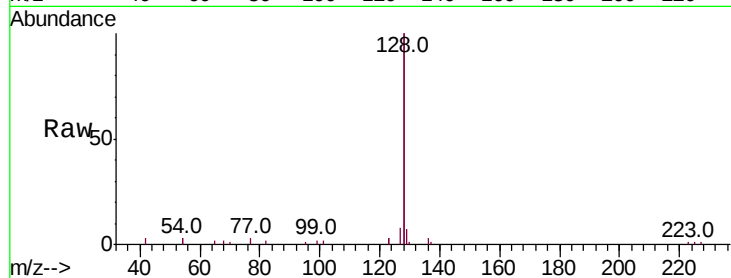
Tot Ion:128 Resp: 15605

Ion Ratio Lower Upper

128 100

129 3.4 2.5 3.7

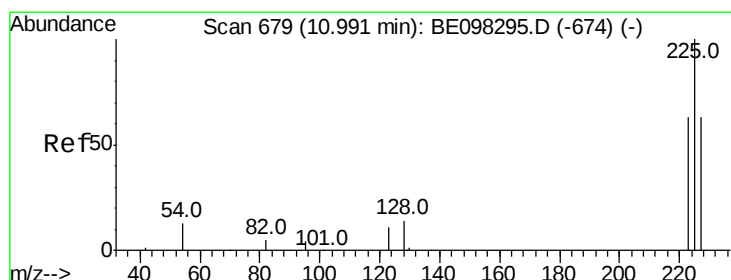
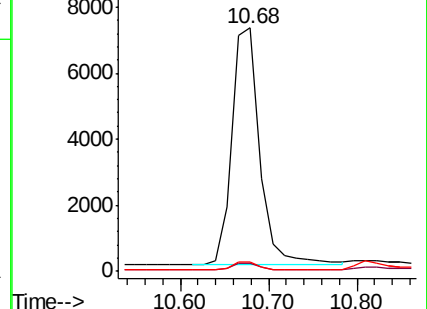
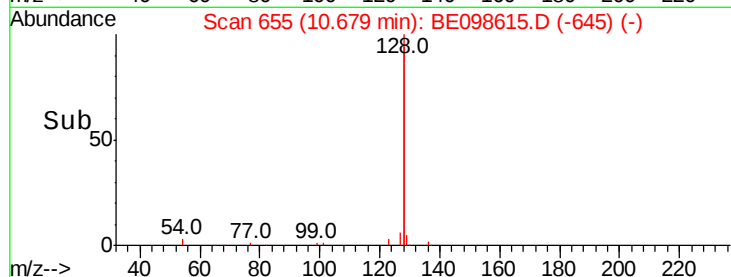
127 3.8 2.7 4.1



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: 0.310 ng

RT: 10.95 min Scan# 676

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

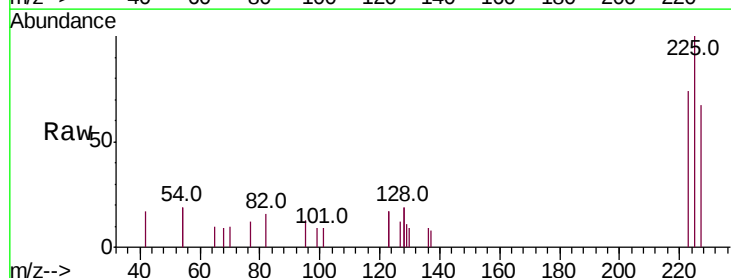
Tgt Ion:225 Resp: 968

Ion Ratio Lower Upper

225 100

223 65.6 49.4 74.0

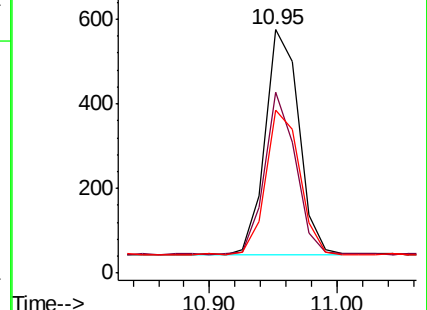
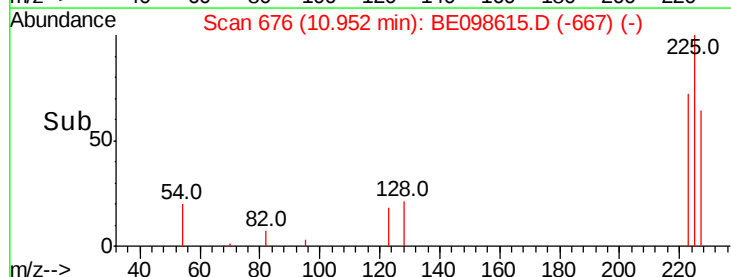
227 63.7 52.0 78.0

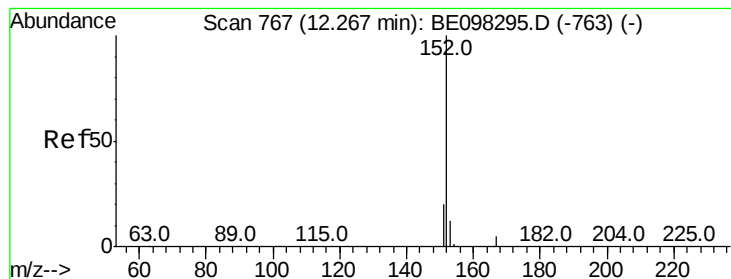


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.307 ng

RT: 12.22 min Scan# 764

Delta R.T. 0.02 min

Lab File: BE098615.D

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BNA\_E

ClientSampleId :

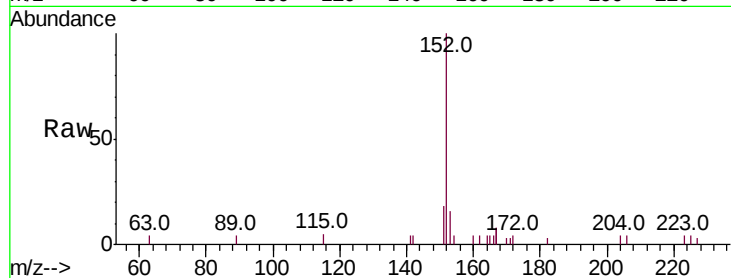
PB116164BS

Tot Ion:152 Resp: 2438

Ion Ratio Lower Upper

152 100

151 17.4 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.22

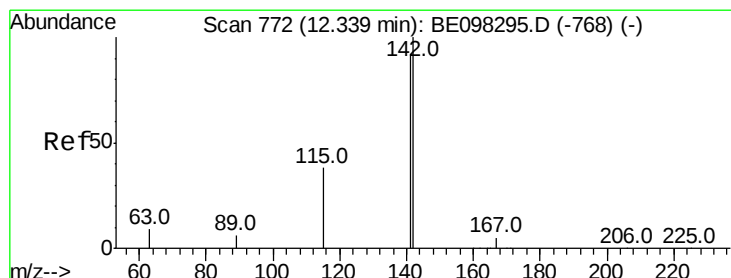
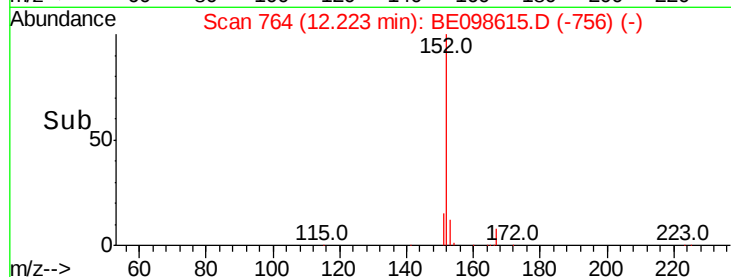
1000

500

0

Time-->

12.20 12.40



#12

2-Methylnaphthalene

Concen: 0.317 ng

RT: 12.30 min Scan# 769

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

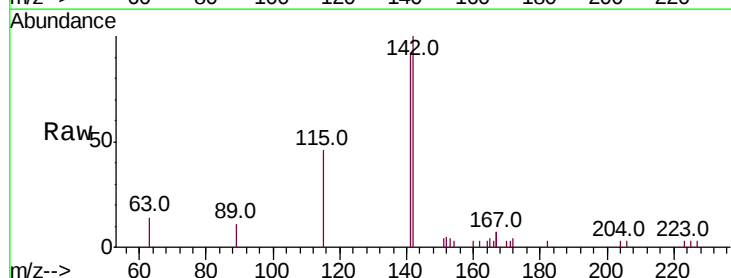
Tgt Ion:142 Resp: 2533

Ion Ratio Lower Upper

142 100

141 91.9 71.0 106.6

115 46.0 32.2 48.2



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

12.30

1500

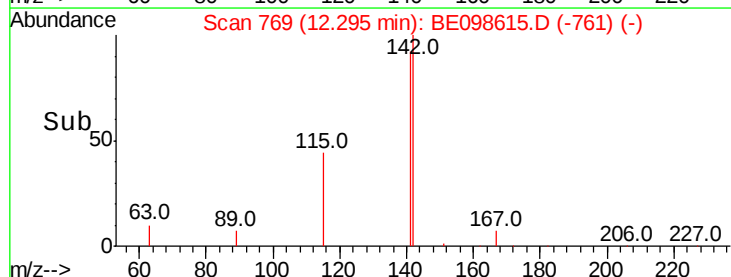
1000

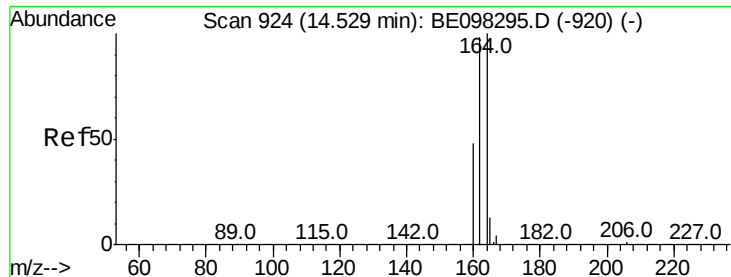
500

0

Time-->

12.20 12.40

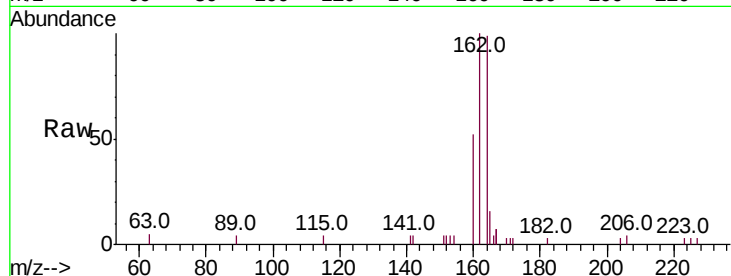




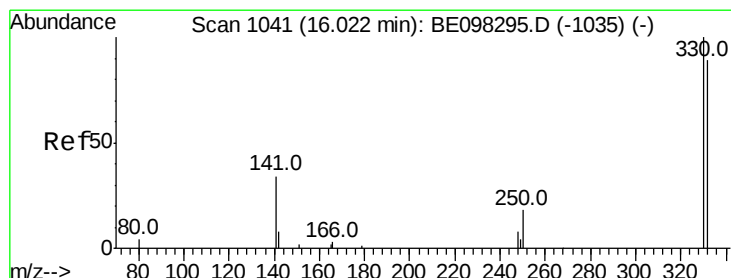
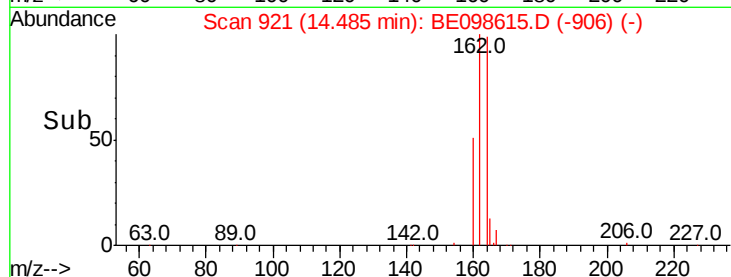
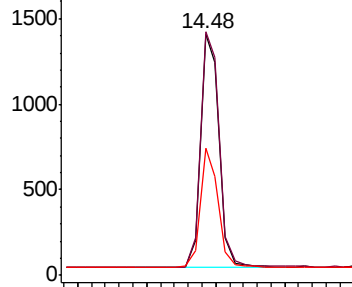
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.48 min Scan# 921  
 Delta R.T. 0.02 min  
 Lab File: BE098615.D  
 Acq: 4 Jan 2019 14:58

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116164BS

Tot Ion:164 Resp: 2550  
 Ion Ratio Lower Upper  
 164 100  
 162 100.9 77.6 116.4  
 160 52.7 36.0 54.0

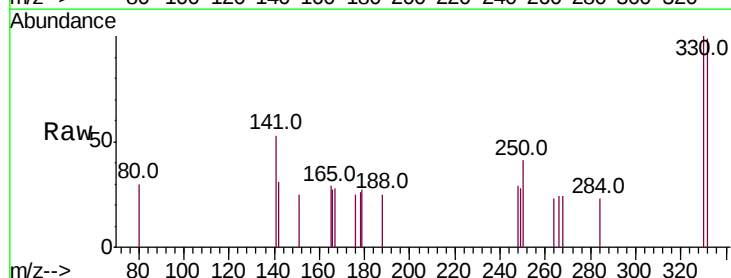


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

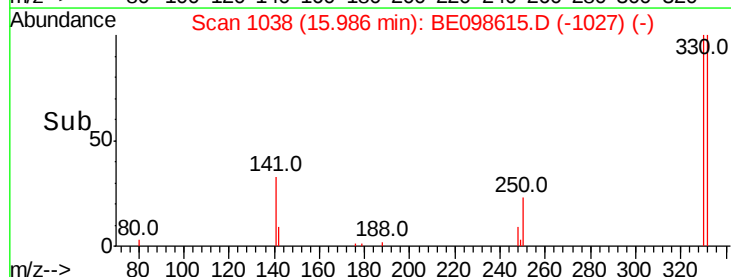
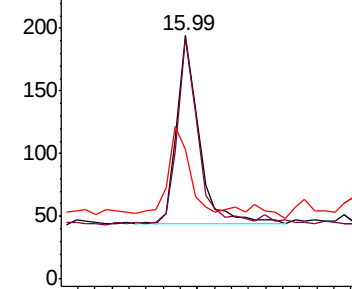


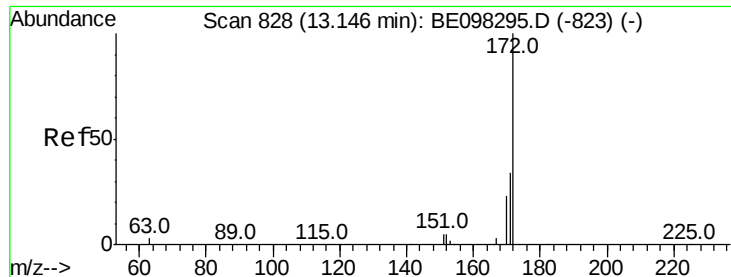
#14  
 2,4,6-Tribromophenol  
 Concen: 0.291 ng  
 RT: 15.99 min Scan# 1038  
 Delta R.T. 0.02 min  
 Lab File: BE098615.D  
 Acq: 4 Jan 2019 14:58

Tgt Ion:330 Resp: 272  
 Ion Ratio Lower Upper  
 330 100  
 332 91.2 76.2 114.4  
 141 43.0 39.0 58.4



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

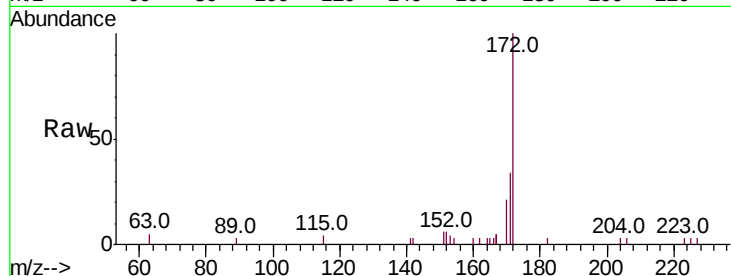




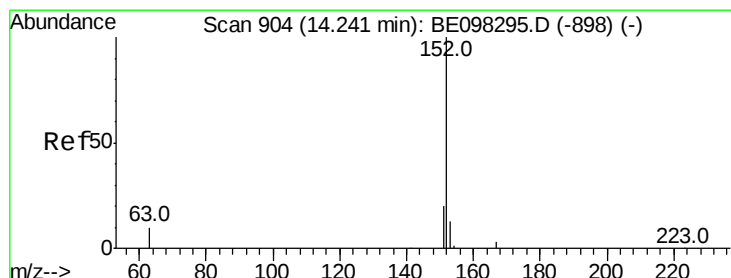
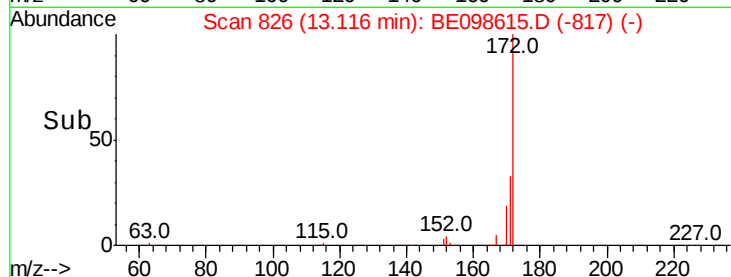
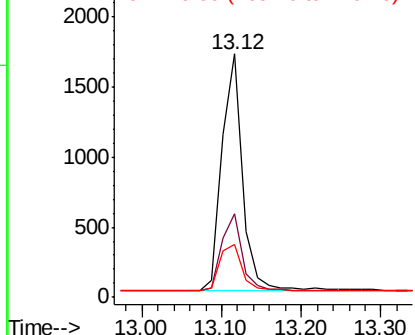
#15  
 2-Fluorobiphenyl  
 Concen: 0.286 ng  
 RT: 13.12 min Scan# 826  
 Delta R.T. 0.03 min  
 Lab File: BE098615.D  
 Acq: 4 Jan 2019 14:58

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB116164BS

Tot Ion:172 Resp: 3077  
 Ion Ratio Lower Upper  
 172 100  
 171 34.4 27.5 41.3  
 170 21.5 19.6 29.4

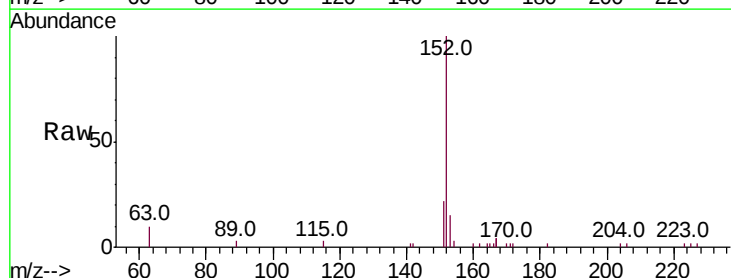


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

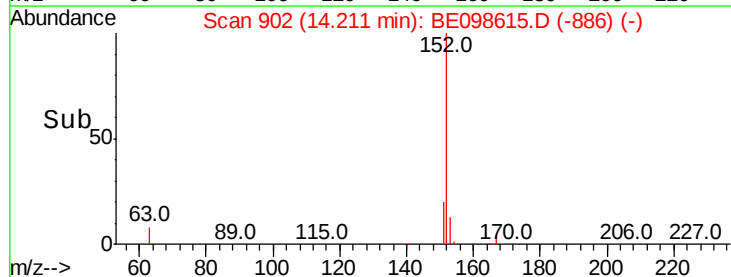
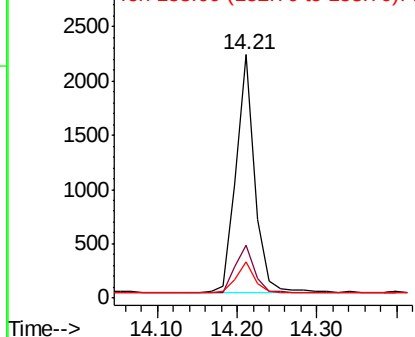


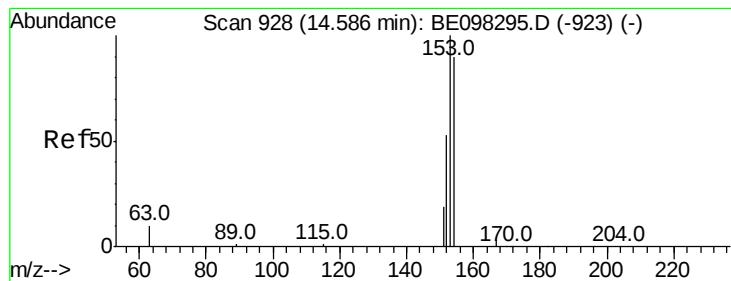
#16  
 Acenaphthylene  
 Concen: 0.301 ng  
 RT: 14.21 min Scan# 902  
 Delta R.T. 0.03 min  
 Lab File: BE098615.D  
 Acq: 4 Jan 2019 14:58

Tgt Ion:152 Resp: 3595  
 Ion Ratio Lower Upper  
 152 100  
 151 20.7 15.5 23.3  
 153 13.4 10.6 16.0



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: 0.306 ng

RT: 14.56 min Scan# 926

Delta R.T. 0.03 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

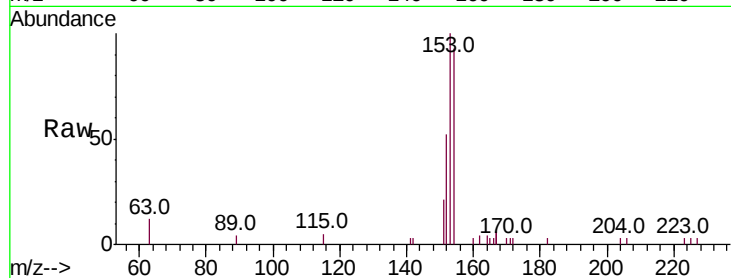
Tot Ion:154 Resp: 2194

Ion Ratio Lower Upper

154 100

153 110.9 91.8 137.6

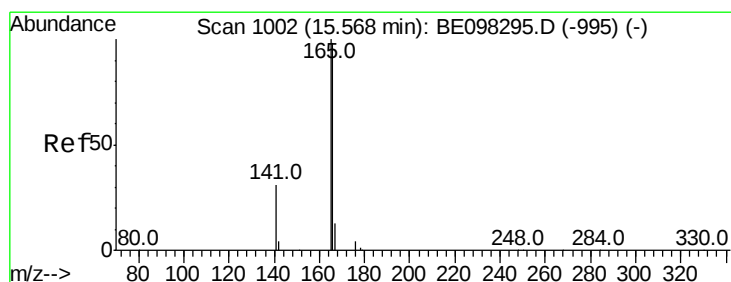
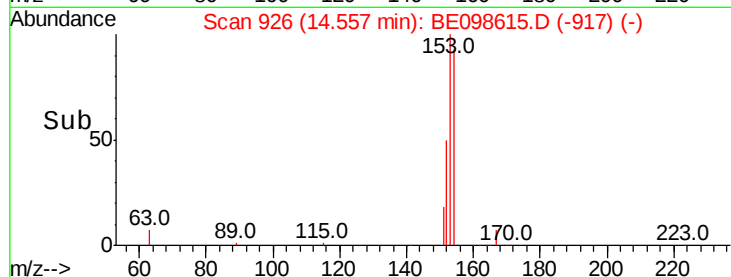
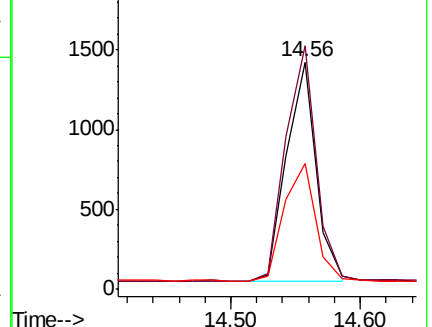
152 57.2 45.5 68.3



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: 0.299 ng

RT: 15.53 min Scan# 999

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

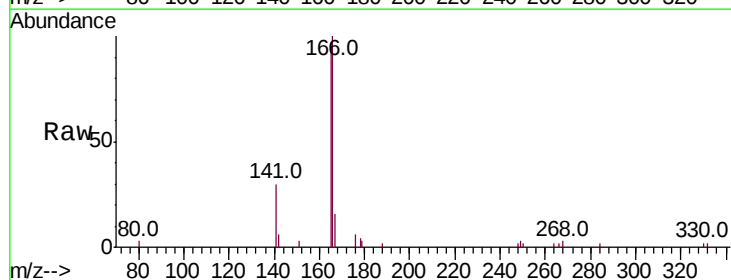
Tgt Ion:166 Resp: 2871

Ion Ratio Lower Upper

166 100

165 98.4 79.3 118.9

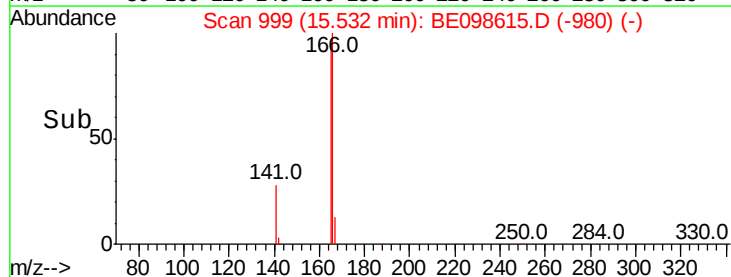
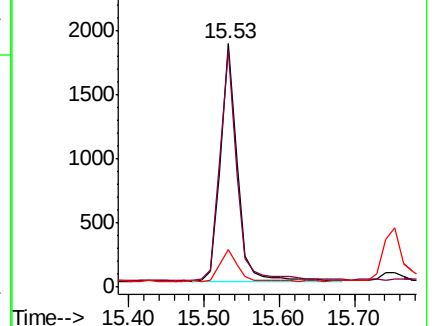
167 14.1 11.3 16.9

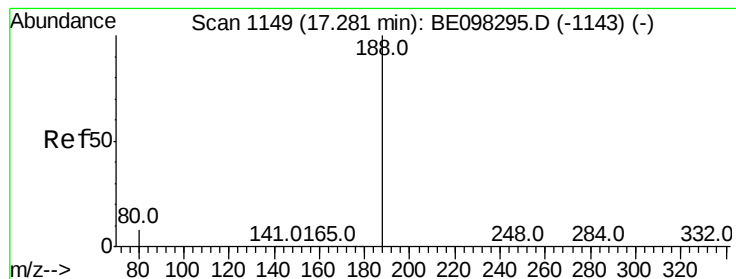


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.23 min Scan# 1145

Delta R.T. 0.01 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

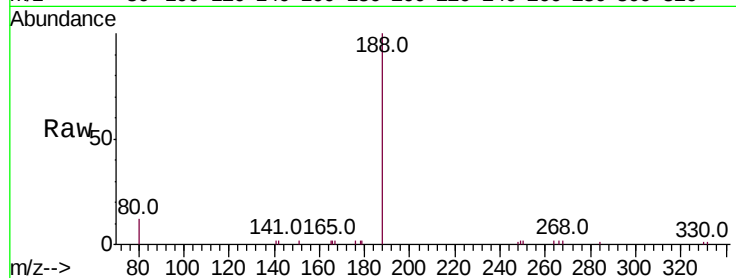
Tot Ion:188 Resp: 5562

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

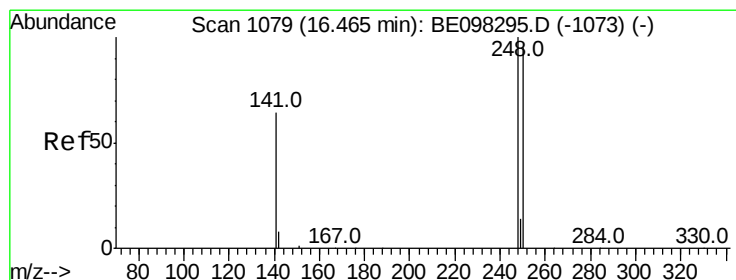
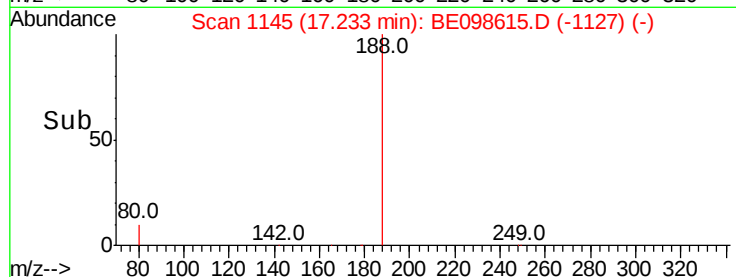
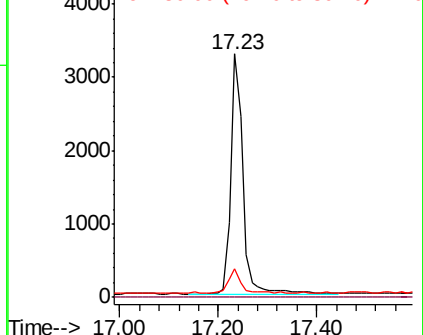
80 11.7 7.2 10.8#



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: 0.299 ng

RT: 16.43 min Scan# 1076

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

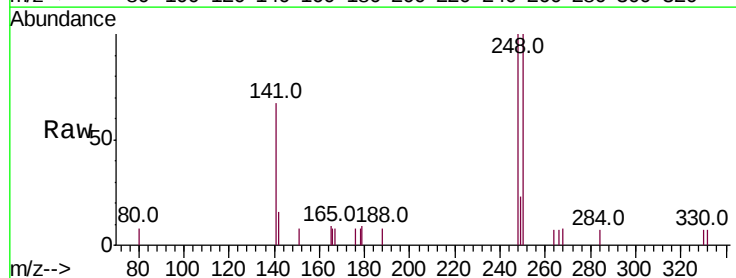
Tgt Ion:248 Resp: 894

Ion Ratio Lower Upper

248 100

250 100.3 71.0 106.6

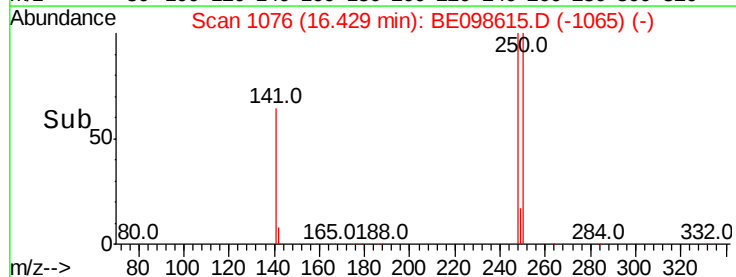
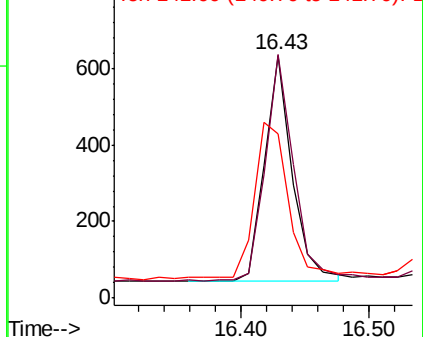
141 67.7 62.1 93.1



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: 0.309 ng

RT: 16.55 min Scan# 1086

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

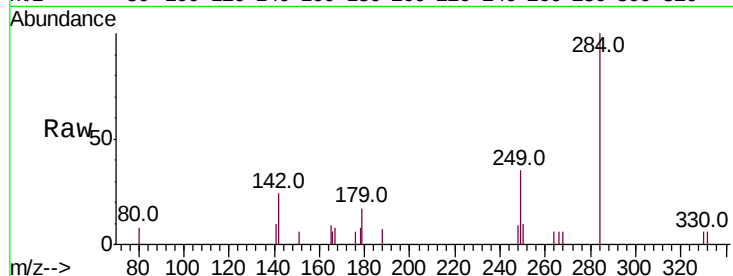
Tot Ion:284 Resp: 994

Ion Ratio Lower Upper

284 100

142 34.9 26.3 39.5

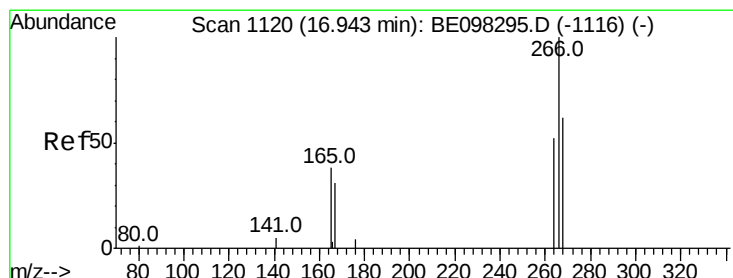
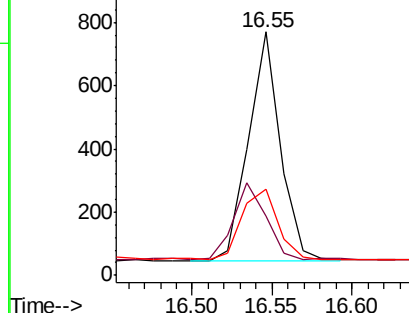
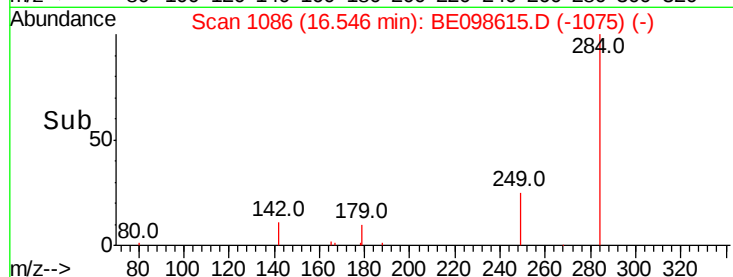
249 35.5 26.0 39.0



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: 1.086 ng

RT: 16.90 min Scan# 1116

Delta R.T. 0.01 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

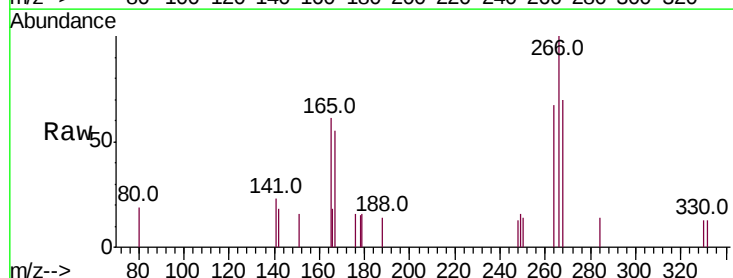
Tgt Ion:266 Resp: 691

Ion Ratio Lower Upper

266 100

264 67.2 59.0 88.4

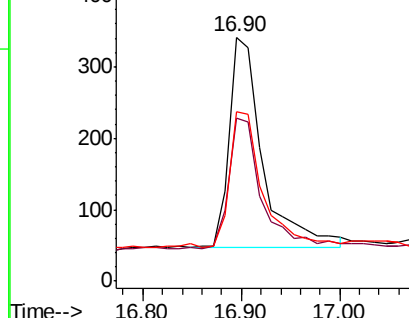
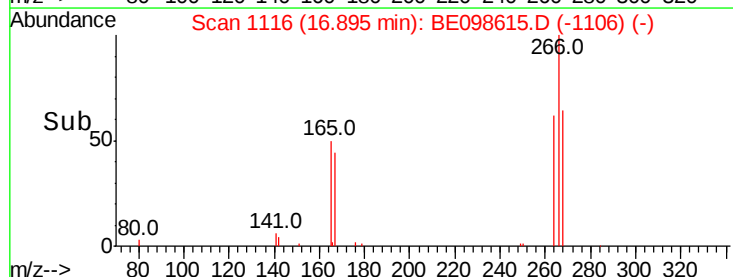
268 69.5 55.1 82.7

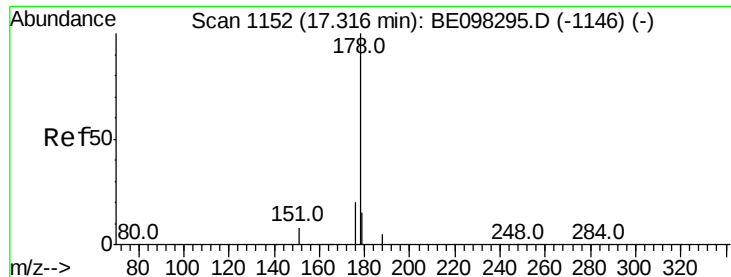


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.320 ng

RT: 17.28 min Scan# 1149

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

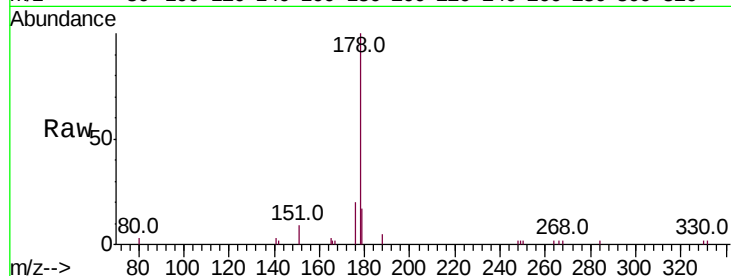
Tot Ion:178 Resp: 4329

Ion Ratio Lower Upper

178 100

176 20.2 15.9 23.9

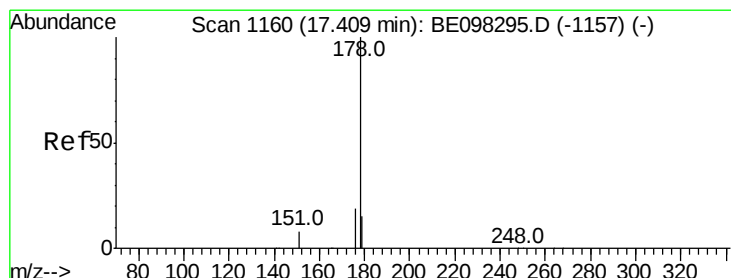
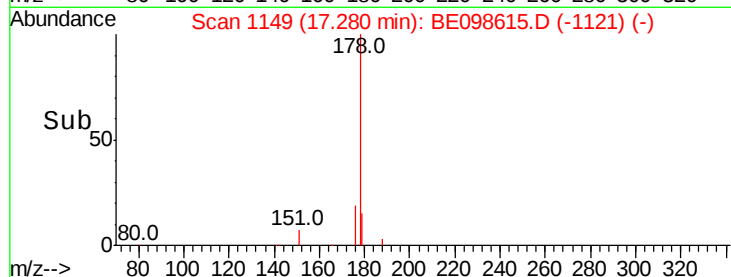
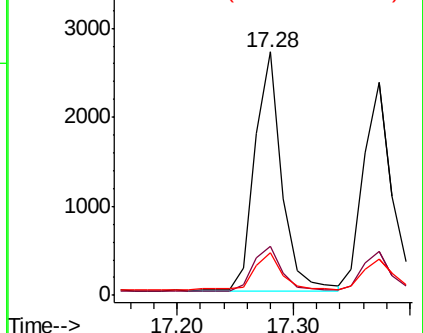
179 16.0 12.3 18.5



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: 0.317 ng

RT: 17.37 min Scan# 1157

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

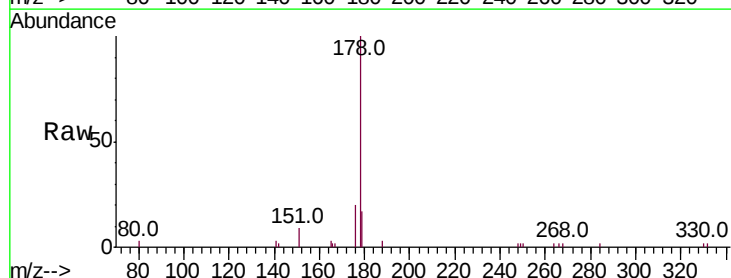
Tgt Ion:178 Resp: 3824

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

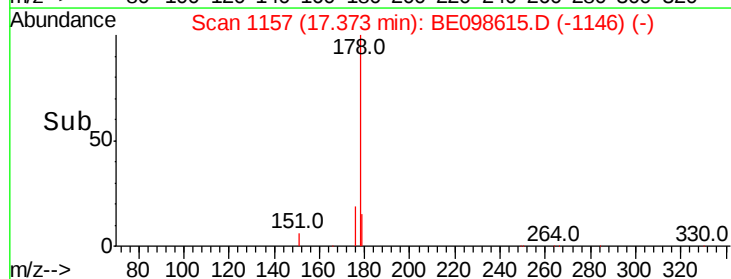
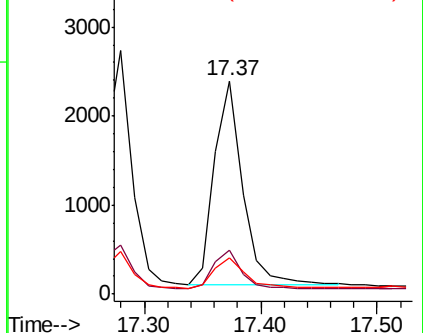
179 16.7 12.3 18.5



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





#25

Fluoranthene-d10

Concen: 0.279 ng

RT: 19.27 min Scan# 1426

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

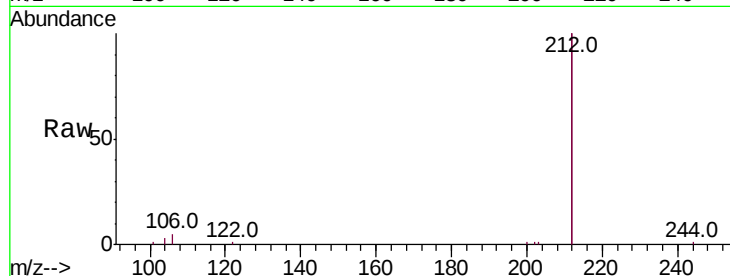
Tot Ion:212 Resp: 19933

Ion Ratio Lower Upper

212 100

106 2.2 2.2 3.2

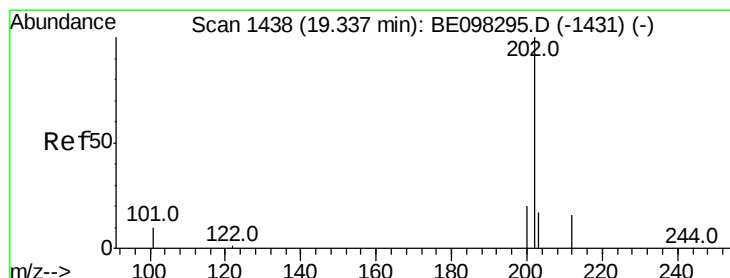
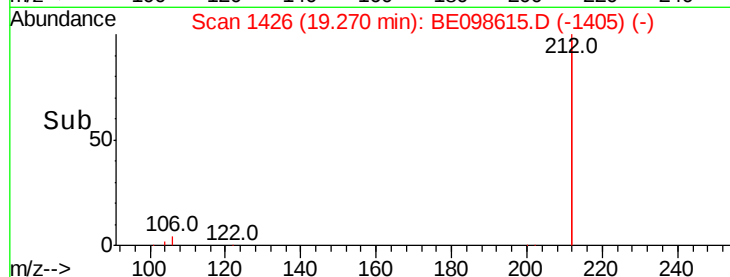
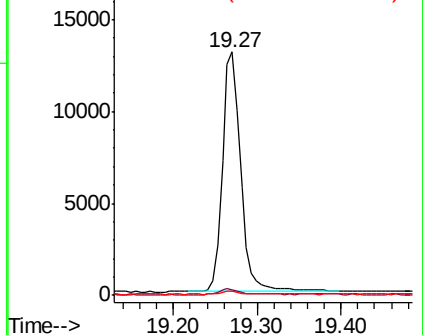
104 1.3 1.3 1.9



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: 0.292 ng

RT: 19.30 min Scan# 1431

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

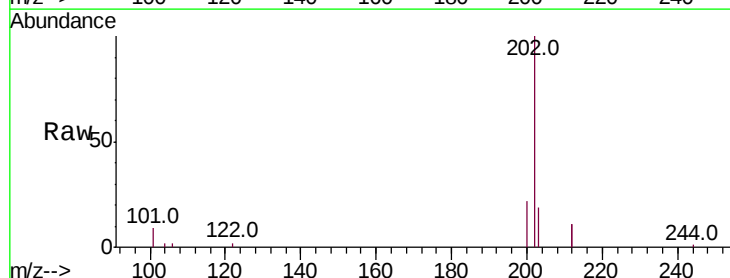
Tgt Ion:202 Resp: 5215

Ion Ratio Lower Upper

202 100

101 8.6 8.0 12.0

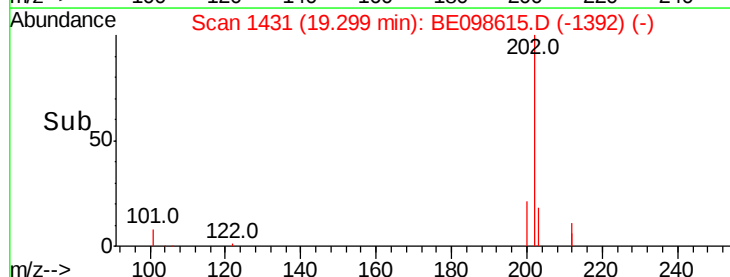
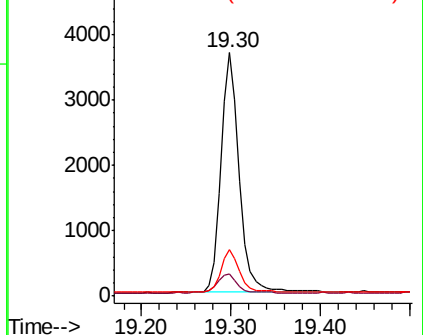
203 17.8 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

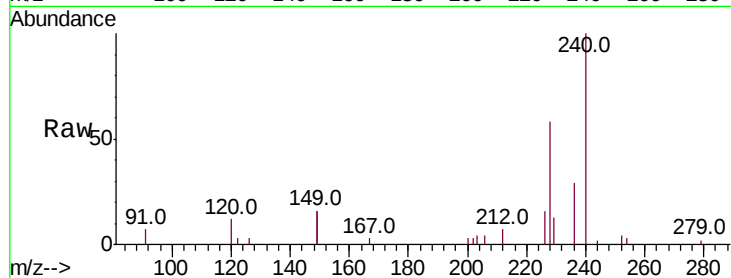




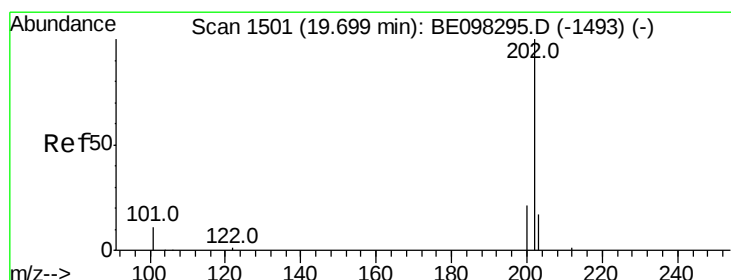
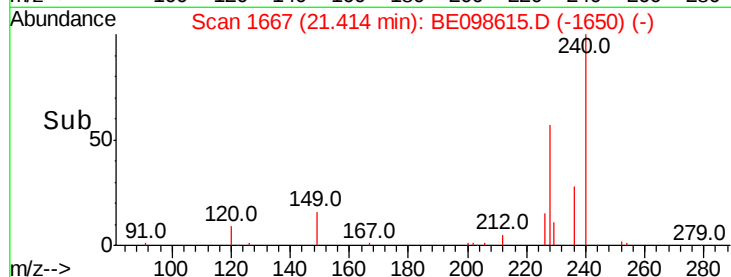
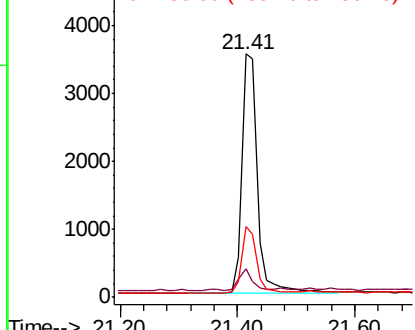
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.41 min Scan# 1667  
Delta R.T. 0.01 min  
Lab File: BE098615.D  
Acq: 4 Jan 2019 14:58

Instrument :  
BNA\_E  
ClientSampleId :  
PB116164BS

Tot Ion:240 Resp: 6535  
Ion Ratio Lower Upper  
240 100  
120 11.6 9.5 14.3  
236 29.1 22.7 34.1

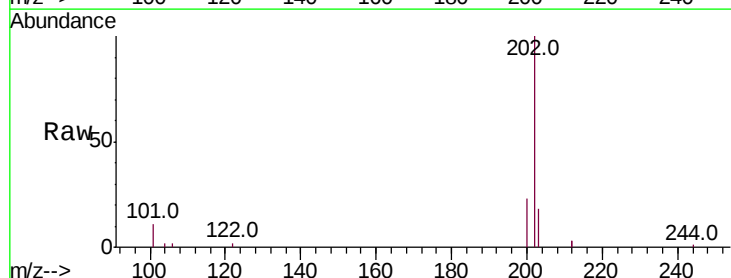


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

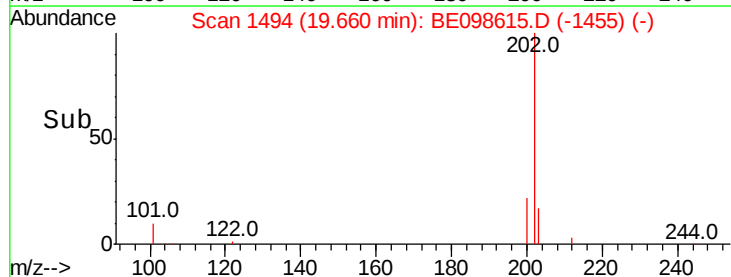
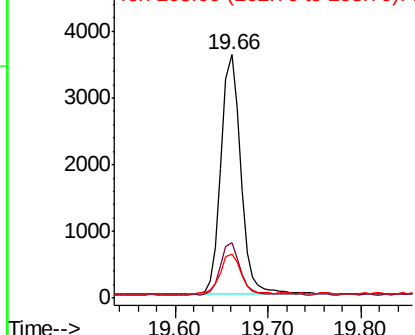


#28  
Pyrene  
Concen: 0.262 ng  
RT: 19.66 min Scan# 1494  
Delta R.T. 0.02 min  
Lab File: BE098615.D  
Acq: 4 Jan 2019 14:58

Tgt Ion:202 Resp: 5377  
Ion Ratio Lower Upper  
202 100  
200 21.7 16.7 25.1  
203 17.4 14.1 21.1



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: 0.267 ng

RT: 19.87 min Scan# 1530

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

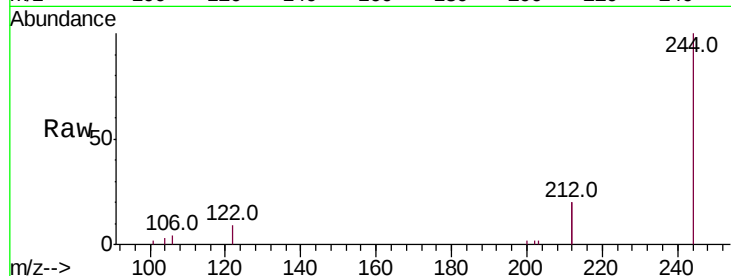
Tot Ion:244 Resp: 4244

Ion Ratio Lower Upper

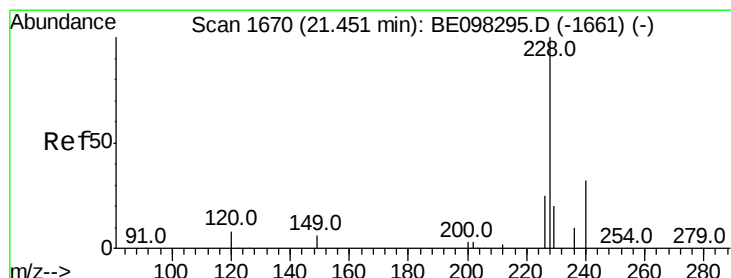
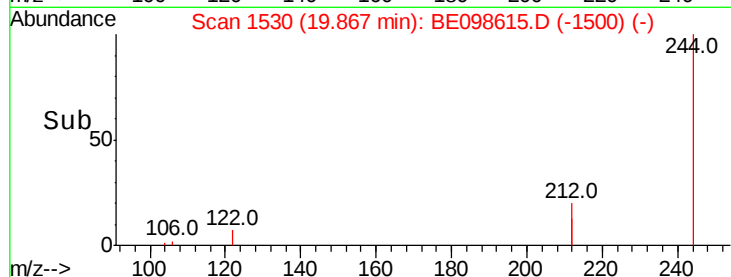
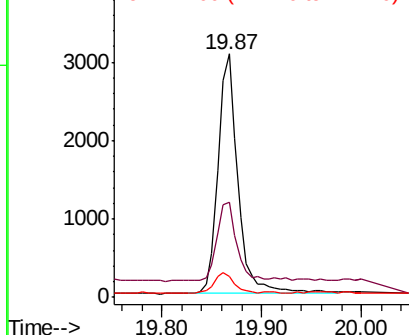
244 100

212 39.3 27.4 41.0

122 8.6 8.3 12.5



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: 0.318 ng

RT: 21.40 min Scan# 1666

Delta R.T. 0.01 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

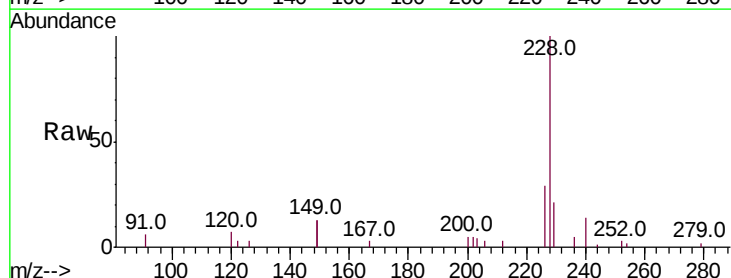
Tgt Ion:228 Resp: 5912

Ion Ratio Lower Upper

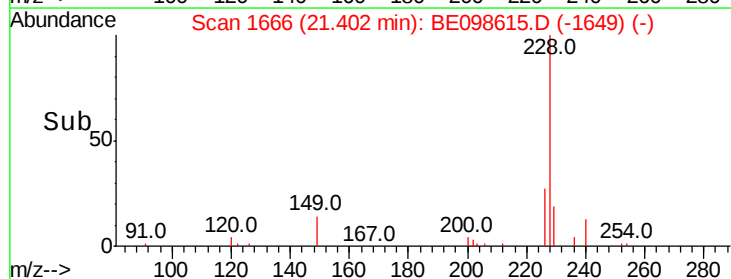
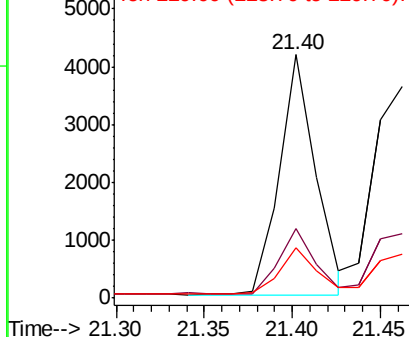
228 100

226 28.6 21.8 32.8

229 20.7 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.307 ng

RT: 21.46 min Scan# 1671

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

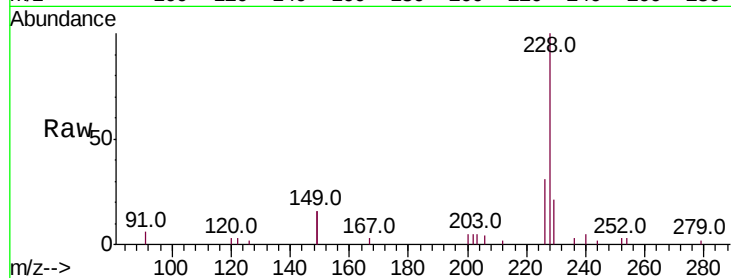
Tot Ion:228 Resp: 5993

Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.0

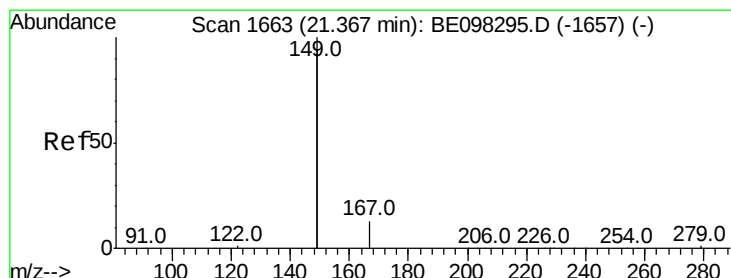
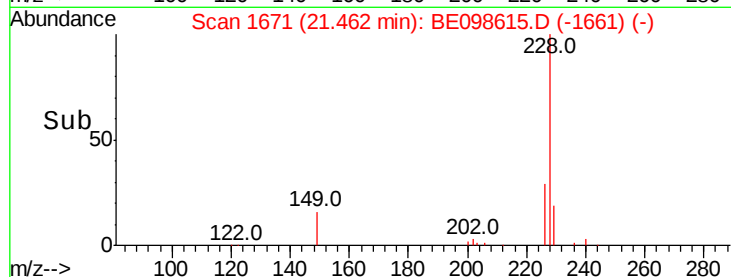
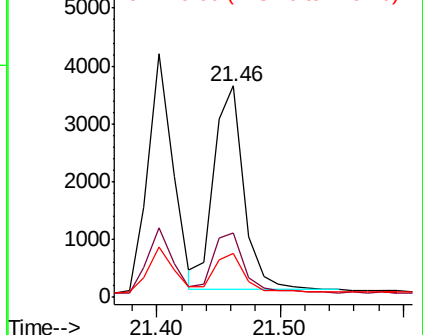
229 20.6 16.2 24.4



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.330 ng

RT: 21.33 min Scan# 1660

Delta R.T. 0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

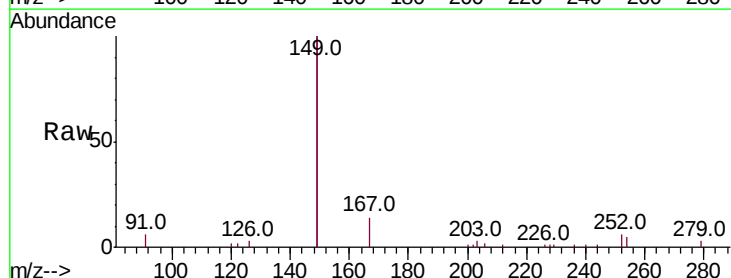
Tgt Ion:149 Resp: 12461

Ion Ratio Lower Upper

149 100

167 6.9 5.7 8.5

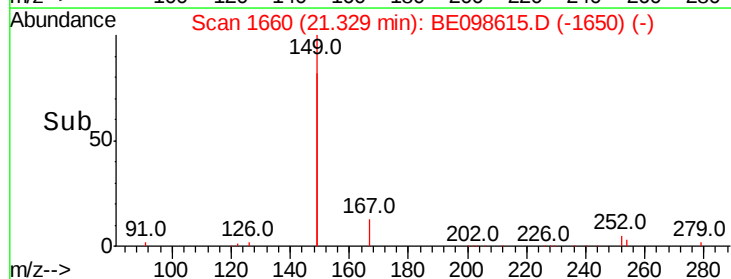
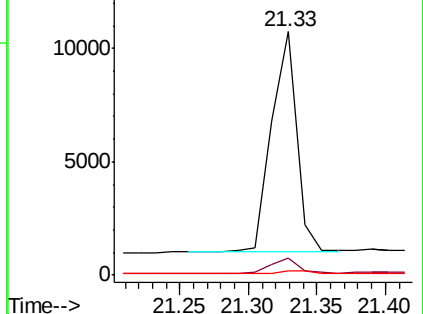
279 1.3 1.0 1.4

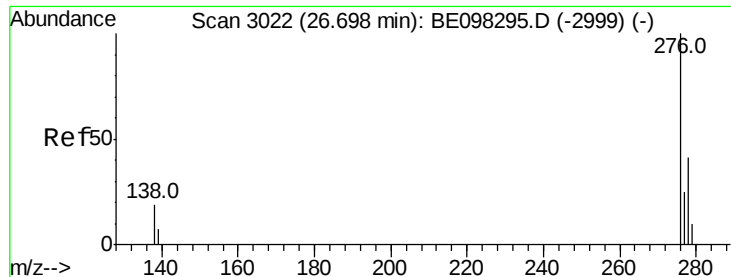


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.405 ng

RT: 26.60 min Scan# 2994

Delta R.T. -0.04 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

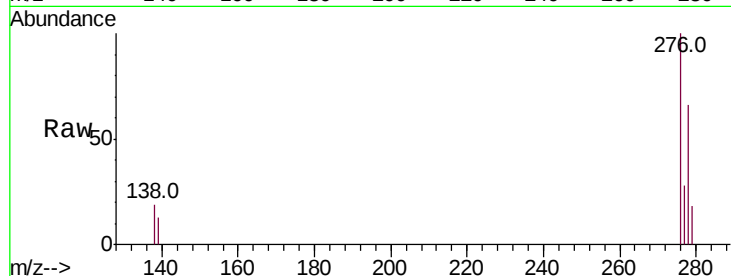
Tot Ion:276 Resp: 7853

Ion Ratio Lower Upper

276 100

138 18.1 16.3 24.5

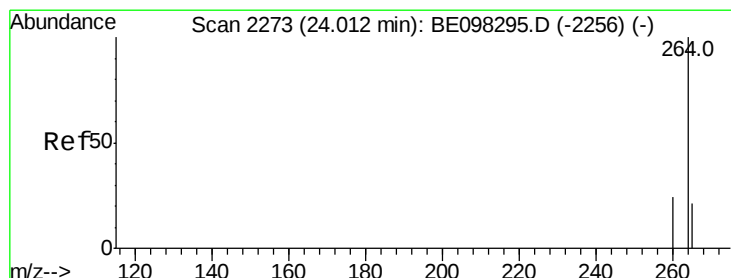
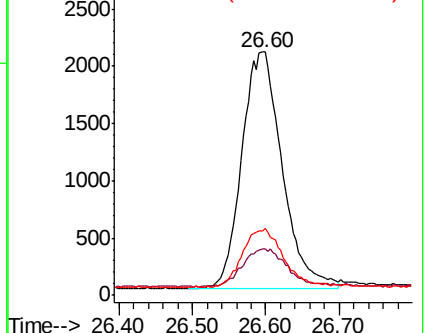
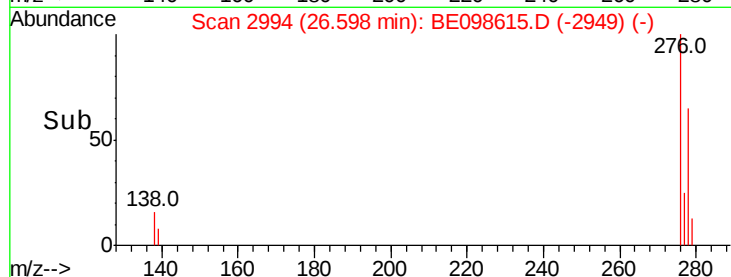
277 25.0 20.2 30.4



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: 23.94 min Scan# 2252

Delta R.T. -0.01 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

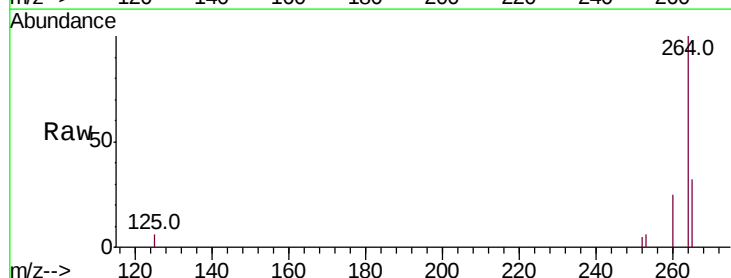
Tgt Ion:264 Resp: 7246

Ion Ratio Lower Upper

264 100

260 25.5 20.2 30.2

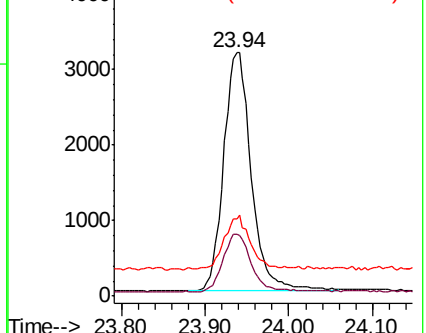
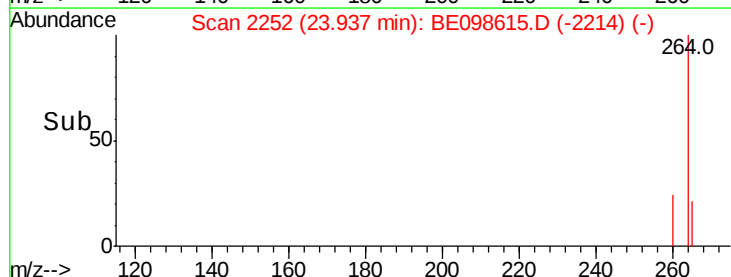
265 31.6 25.2 37.8



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

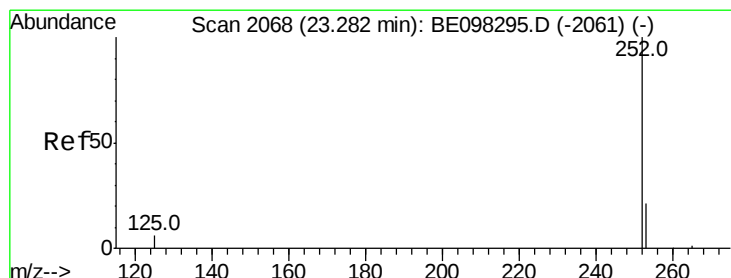
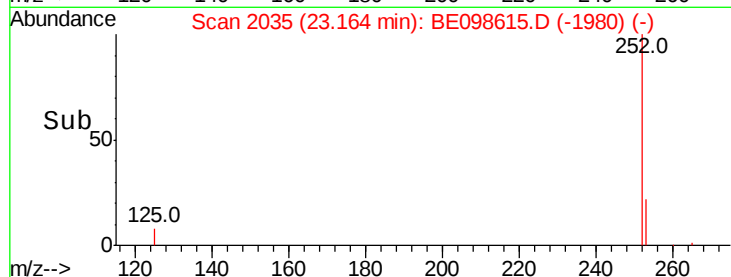
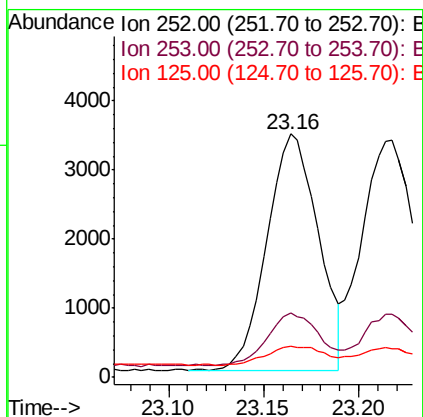
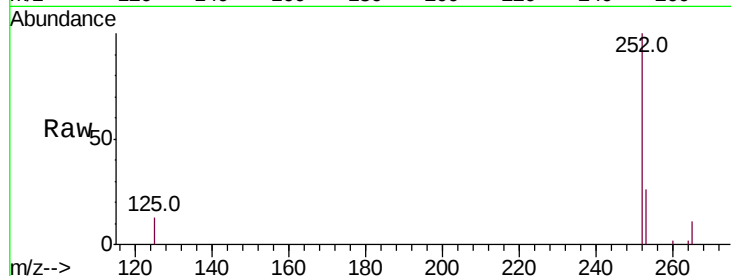




#35  
Benzo(b)fluoranthene  
Concen: 0.323 ng  
RT: 23.16 min Scan# 2035  
Delta R.T. -0.00 min  
Lab File: BE098615.D  
Acq: 4 Jan 2019 14:58

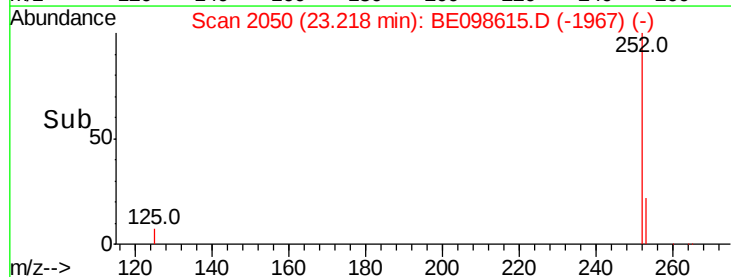
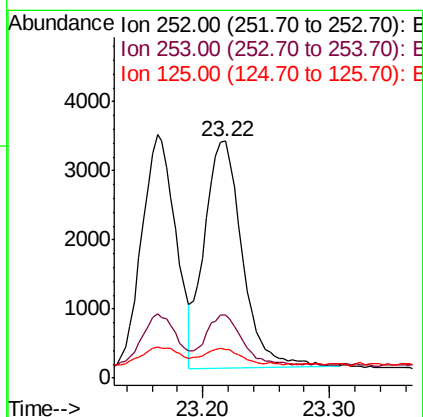
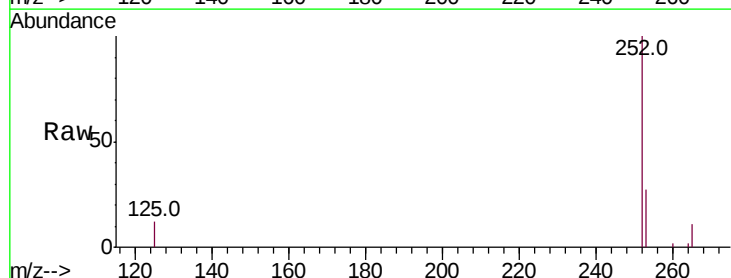
Instrument :  
BNA\_E  
ClientSampleId :  
PB116164BS

Tot Ion:252 Resp: 6409  
Ion Ratio Lower Upper  
252 100  
253 26.5 20.0 30.0  
125 12.9 9.6 14.4



#36  
Benzo(k)fluoranthene  
Concen: 0.294 ng  
RT: 23.22 min Scan# 2050  
Delta R.T. -0.00 min  
Lab File: BE098615.D  
Acq: 4 Jan 2019 14:58

Tgt Ion:252 Resp: 6798  
Ion Ratio Lower Upper  
252 100  
253 26.6 19.0 28.6  
125 12.1 9.1 13.7





#37

Benzo(a)pyrene

Concen: 0.315 ng

RT: 23.82 min Scan# 2219

Delta R.T. -0.02 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

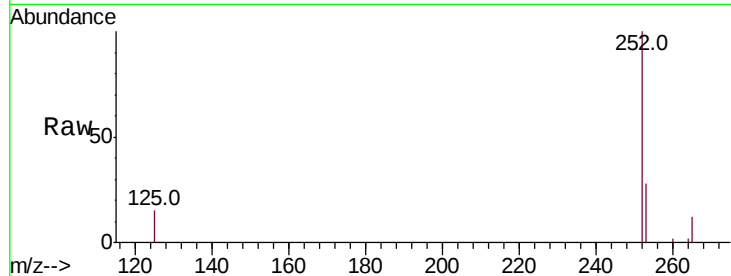
Tot Ion:252 Resp: 6435

Ion Ratio Lower Upper

252 100

253 27.9 20.6 30.8

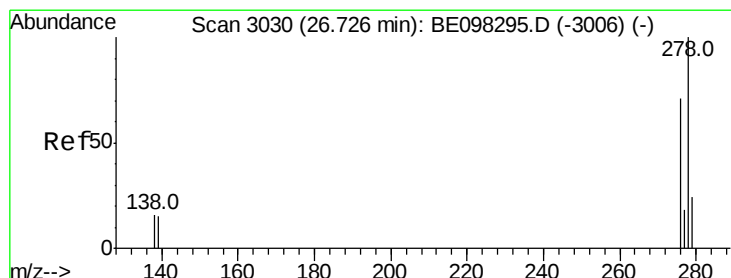
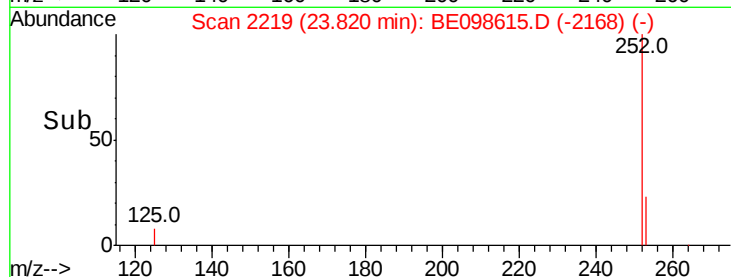
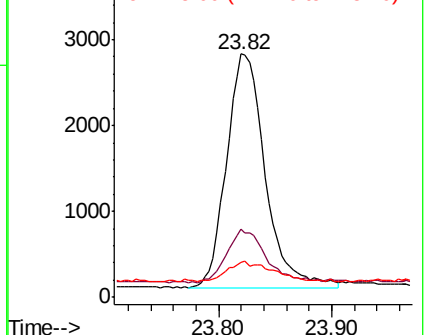
125 14.5 10.5 15.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Dibenzo(a,h)anthracene

Concen: 0.340 ng

RT: 26.61 min Scan# 2998

Delta R.T. -0.05 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

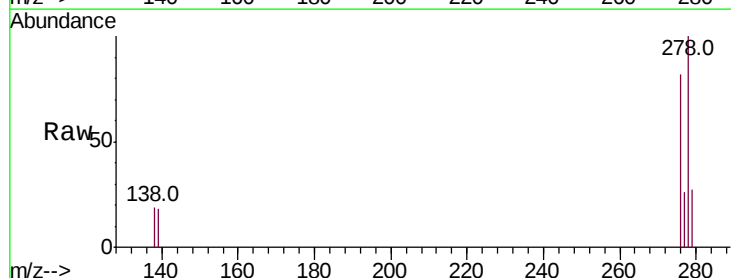
Tgt Ion:278 Resp: 6554

Ion Ratio Lower Upper

278 100

139 18.2 14.5 21.7

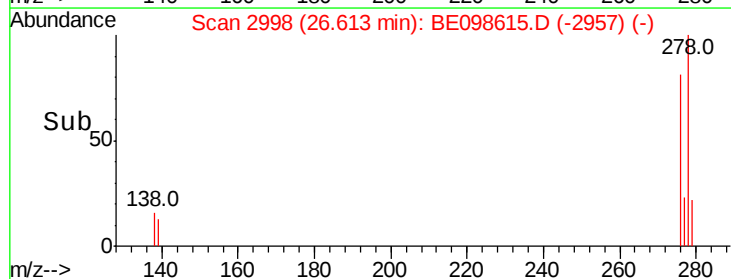
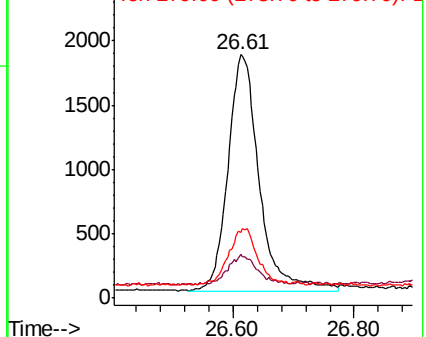
279 26.9 21.8 32.8

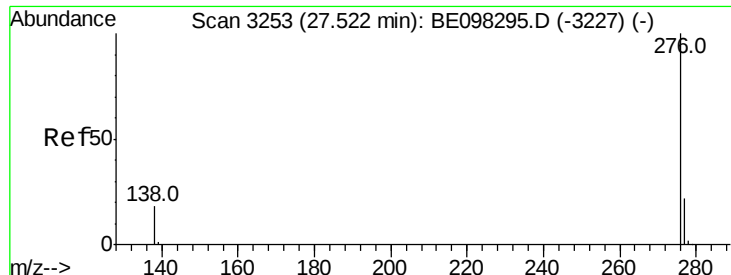


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.356 ng

RT: 27.41 min Scan# 3222

Delta R.T. -0.05 min

Lab File: BE098615.D

Acq: 4 Jan 2019 14:58

Instrument :

BNA\_E

ClientSampleId :

PB116164BS

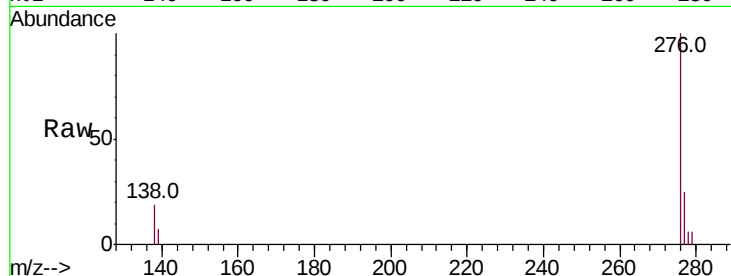
Tot Ion:276 Resp: 6904

Ion Ratio Lower Upper

276 100

277 24.8 20.8 31.2

138 18.5 15.8 23.6



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

