

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE071618\  
 Data File : BE096946.D  
 Acq On : 16 Jul 2018 20:09  
 Operator : SJ/JU  
 Sample : J3170-14DL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 17 16:42:38 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 17 15:02:56 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 2121     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.15 | 136  | 11233    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.03 | 164  | 6196     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.77 | 188  | 14990    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 20.98 | 240  | 11692    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 11939    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.05  | 112  | 213      | 0.04 | ng    | 0.00     |
| 5) Phenol-d6                | 6.59  | 99   | 205      | 0.03 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 8.53  | 82   | 799      | 0.10 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.73 | 152  | 1567     | 0.10 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330  | 126      | 0.13 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.64 | 172  | 2322     | 0.10 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.81 | 212  | 13128    | 0.10 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.43 | 244  | 4615     | 0.20 | ng    | 0.00     |

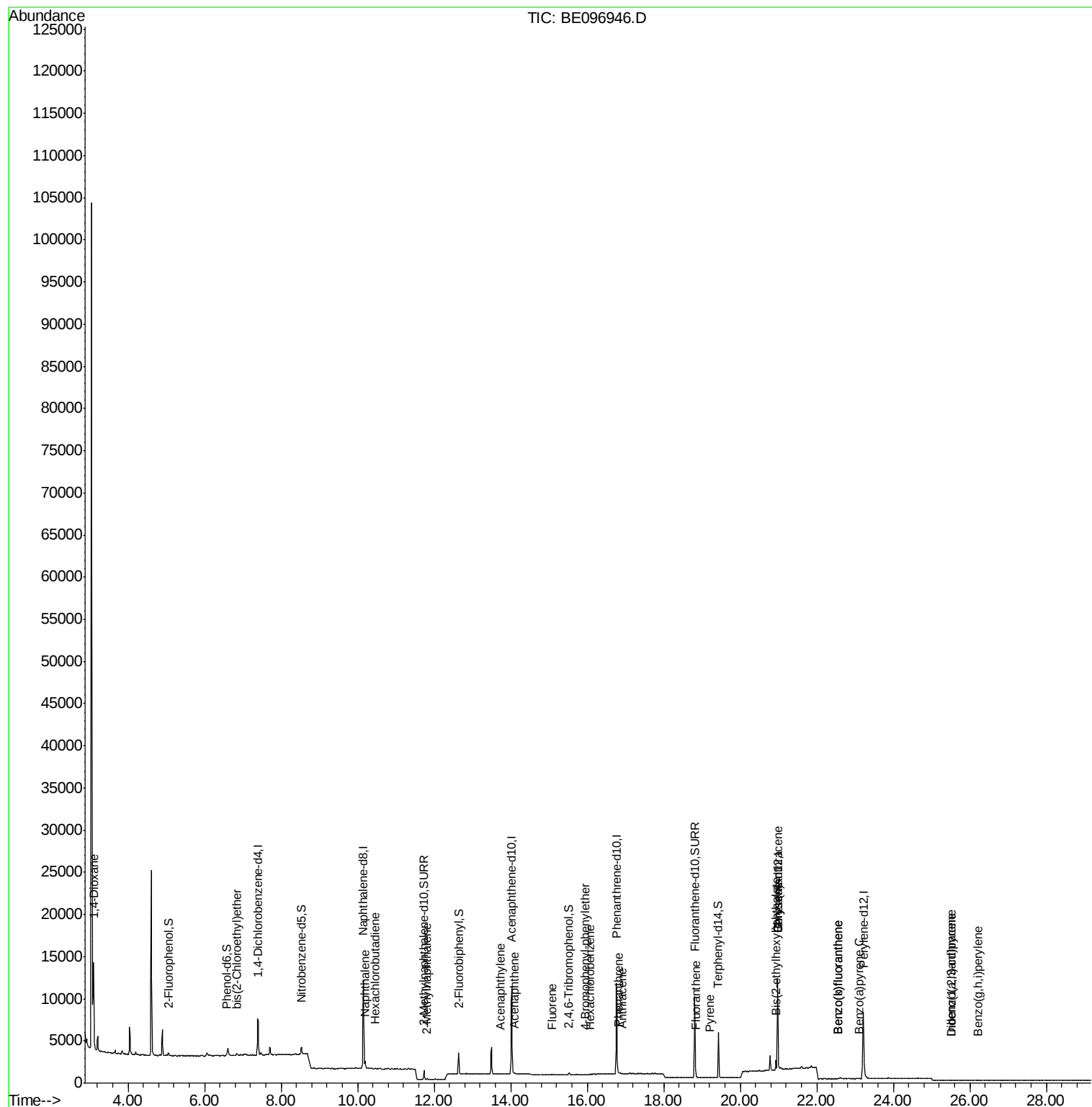
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.10  | 88   | 4830     | 1.591     | ng    | # 90   |
| 6) bis(2-Chloroethyl)ether     | 6.84  | 93   | 53       | 0.007     | ng    | # 56   |
| 9) Naphthalene                 | 10.20 | 128  | 1406     | 0.014     | ng    | # 87   |
| 10) Hexachlorobutadiene        | 10.45 | 225  | 3        | 0.001     | ng    | # 1    |
| 12) 2-Methylnaphthalene        | 11.81 | 142  | 108      | 0.006     | ng    | # 80   |
| 16) Acenaphthylene             | 13.74 | 152  | 23       | 0.001     | ng    | # 61   |
| 17) Acenaphthene               | 14.08 | 154  | 9        | 0.001     | ng    | # 1    |
| 18) Fluorene                   | 15.08 | 166  | 46       | 0.002     | ng    | # 79   |
| 20) 4-Bromophenyl-phenylether  | 15.94 | 248  | 6        | 0.001     | ng    | # 52   |
| 21) Hexachlorobenzene          | 16.08 | 284  | 8        | 0.001     | ng    | # 1    |
| 22) Pentachlorophenol          | 16.45 | 266  | 15       | Below Cal |       | 98     |
| 23) Phenanthrene               | 16.81 | 178  | 180      | 0.005     | ng    | # 68   |
| 24) Anthracene                 | 16.91 | 178  | 13       | 0.000     | ng    | # 62   |
| 26) Fluoranthene               | 18.84 | 202  | 66       | 0.002     | ng    | 97     |
| 28) Pyrene                     | 19.21 | 202  | 44       | 0.001     | ng    | 95     |
| 30) Benzo(a)anthracene         | 20.98 | 228  | 127      | 0.005     | ng    | # 9    |
| 31) Chrysene                   | 20.98 | 228  | 96       | 0.003     | ng    | # 9    |
| 32) Bis(2-ethylhexyl)phthalate | 20.93 | 149  | 1280     | 0.046     | ng    | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276  | 3        | 0.000     | ng    | # 1    |
| 35) Benzo(b)fluoranthene       | 22.54 | 252  | 30       | 0.001     | ng    | # 1    |
| 36) Benzo(k)fluoranthene       | 22.54 | 252  | 30       | 0.001     | ng    | # 1    |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 20       | 0.102     | ng    | # 1    |
| 38) Dibenzo(a,h)anthracene     | 25.52 | 278  | 4        | 0.118     | ng    | # 1    |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276  | 4        | 0.000     | ng    | # 1    |

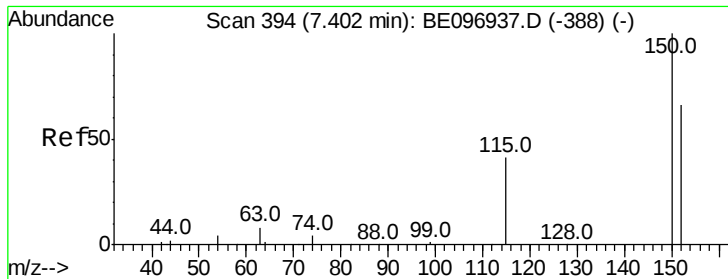
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_E  
ClientSampleId :

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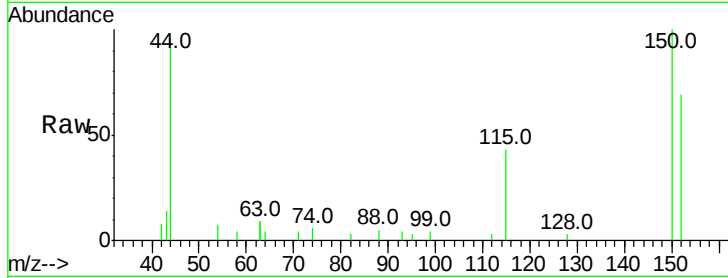


#1

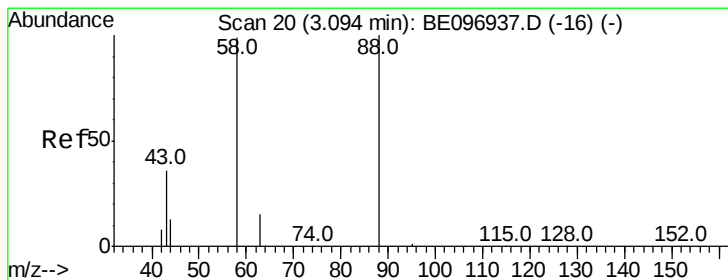
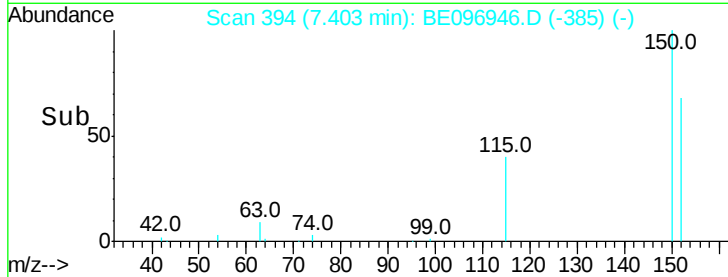
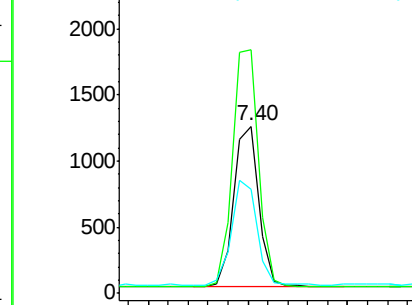
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 394  
Delta R.T. 0.00 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 2121  
Ion Ratio Lower Upper  
152 100  
150 145.5 117.2 175.8  
115 61.8 57.0 85.6



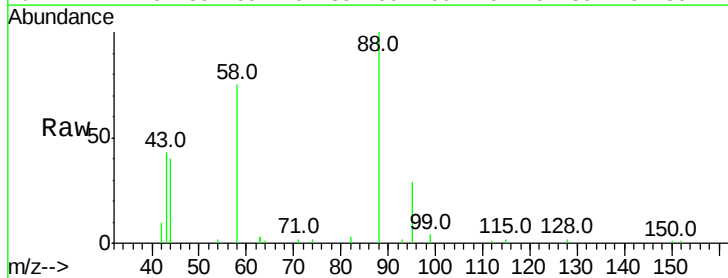
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



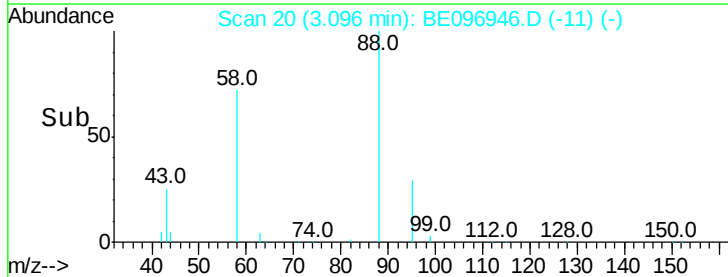
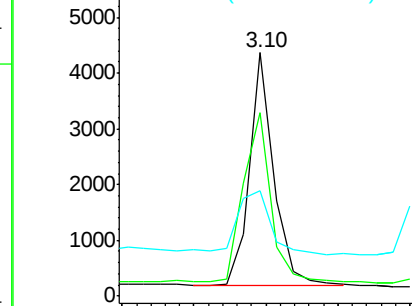
#2

1,4-Dioxane  
Concen: 1.591 ng  
RT: 3.10 min Scan# 20  
Delta R.T. 0.00 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

Tgt Ion: 88 Resp: 4830  
Ion Ratio Lower Upper  
88 100  
58 82.2 63.2 94.8  
43 37.0 41.2 61.8#



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





#4

2-Fluorophenol

Concen: 0.042 ng

RT: 5.05 min Scan# 190

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampled :

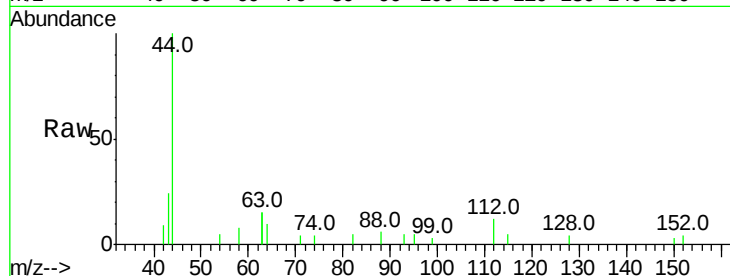
Tot Ion:112 Resp: 213

Ion Ratio Lower Upper

112 100

64 72.8 60.1 90.1

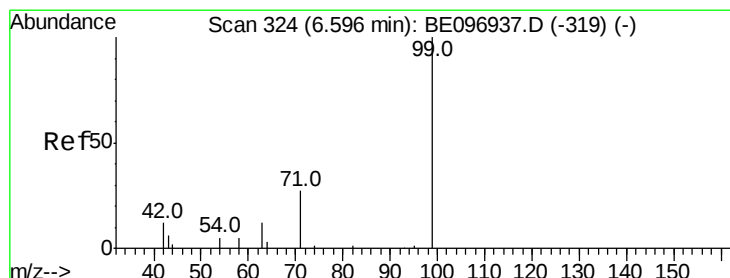
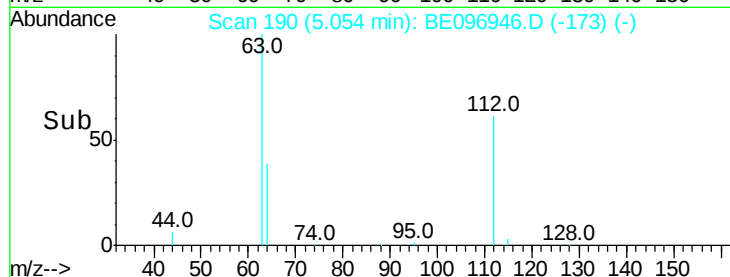
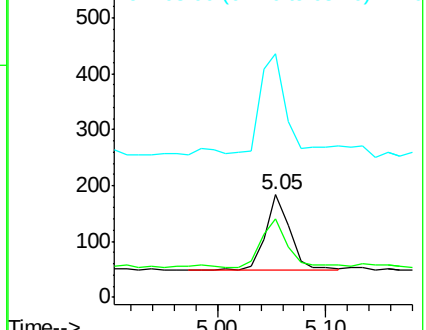
63 132.4 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE096946.D (-173) (-)

Ion 64.00 (63.70 to 64.70): BE096946.D (-173) (-)

Ion 63.00 (62.70 to 63.70): BE096946.D (-173) (-)



#5

Phenol-d6

Concen: 0.026 ng

RT: 6.59 min Scan# 323

Delta R.T. -0.01 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

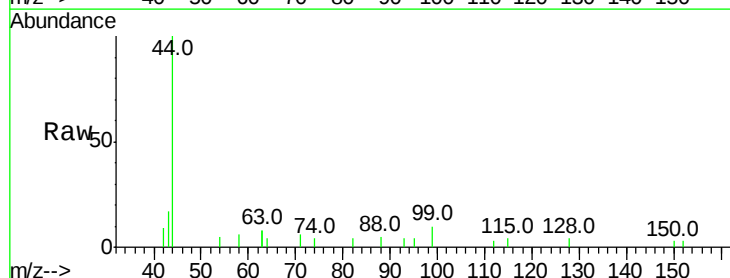
Tgt Ion: 99 Resp: 205

Ion Ratio Lower Upper

99 100

42 58.5 20.2 30.2#

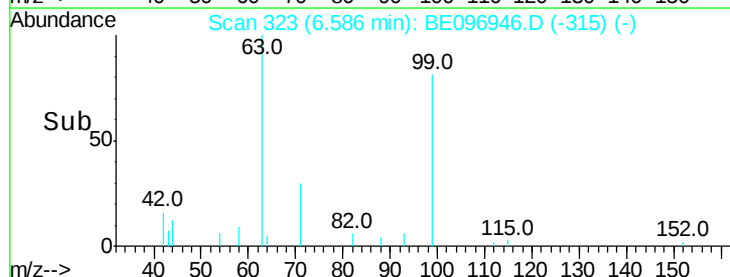
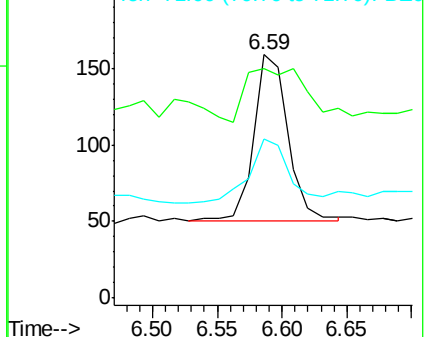
71 44.4 28.4 42.6#

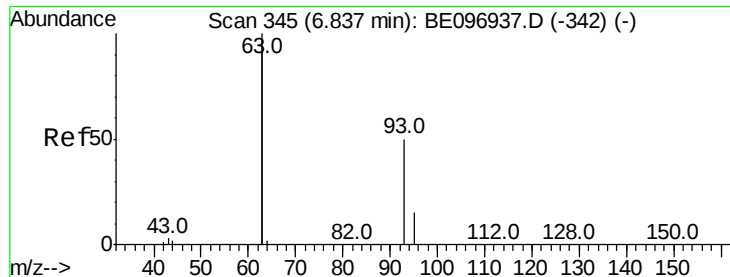


Abundance Ion 99.00 (98.70 to 99.70): BE096946.D (-315) (-)

Ion 42.00 (41.70 to 42.70): BE096946.D (-315) (-)

Ion 71.00 (70.70 to 71.70): BE096946.D (-315) (-)





#6

bis(2-Chloroethyl)ether

Concen: 0.007 ng

RT: 6.84 min Scan# 345

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

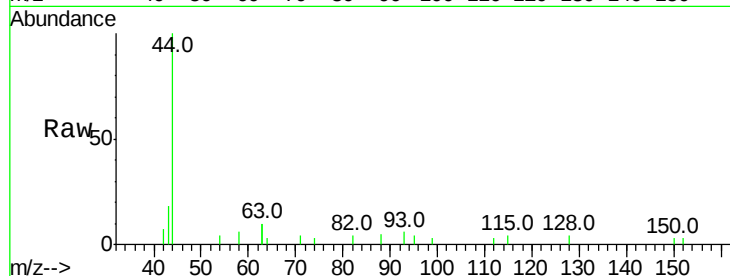
Tot Ion: 93 Resp: 53

Ion Ratio Lower Upper

93 100

63 430.2 275.3 412.9#

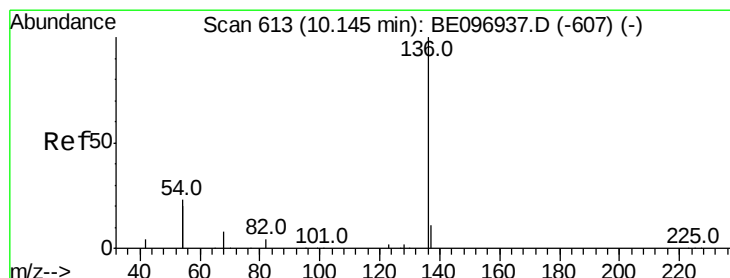
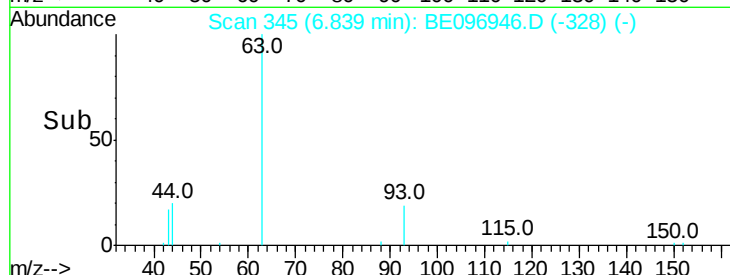
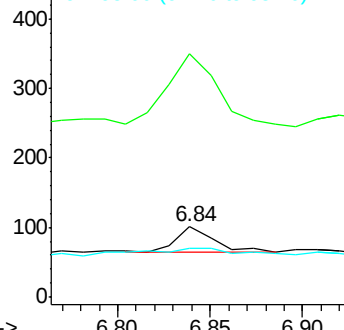
95 79.2 25.2 37.8#



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: 10.15 min Scan# 613

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Tgt Ion:136 Resp: 11233

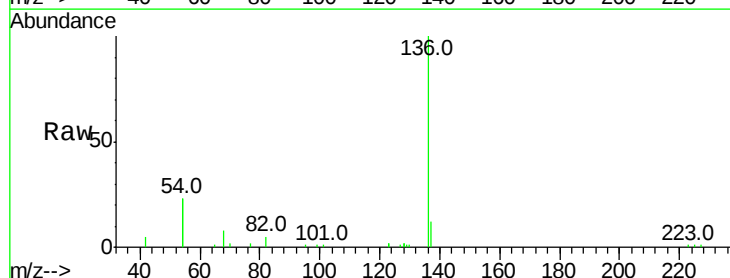
Ion Ratio Lower Upper

136 100

137 11.6 9.5 14.3

54 45.3 29.1 43.7#

68 8.4 6.2 9.2

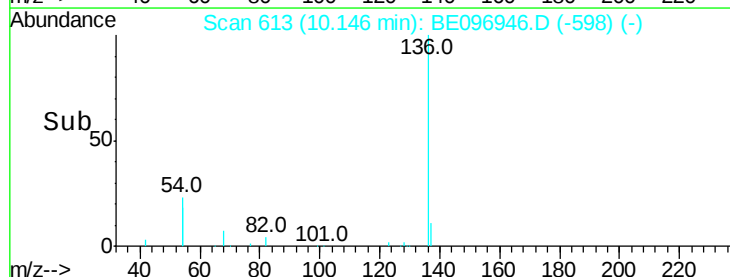
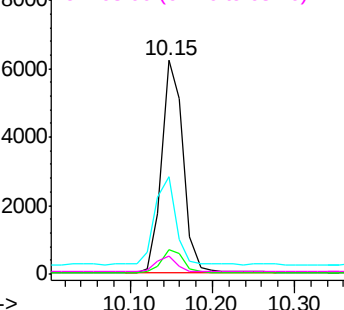


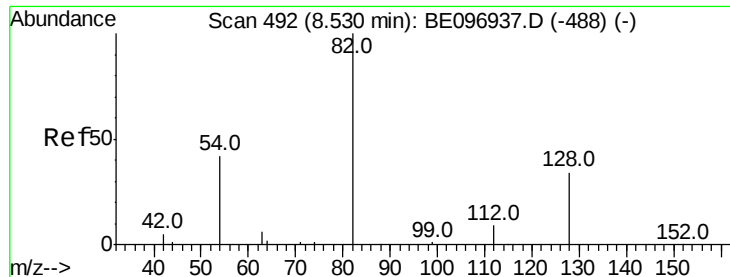
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.098 ng

RT: 8.53 min Scan# 492

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

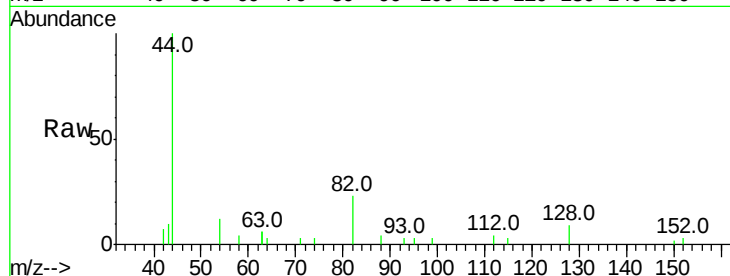
Tot Ion: 82 Resp: 799

Ion Ratio Lower Upper

82 100

128 39.6 24.0 36.0#

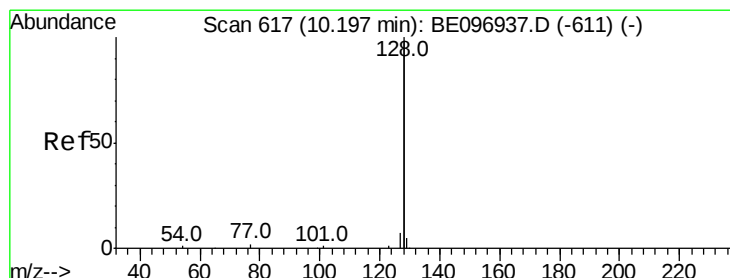
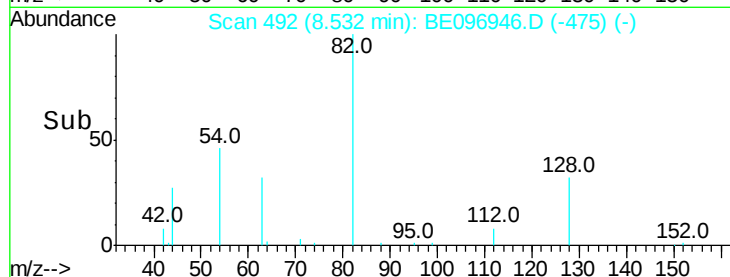
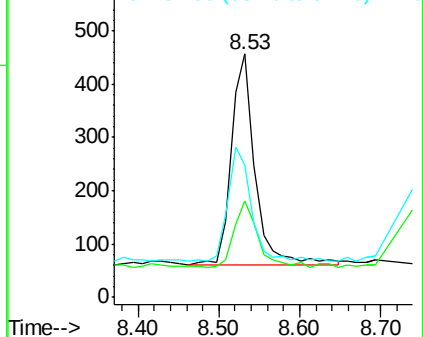
54 54.0 40.0 60.0



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.014 ng

RT: 10.20 min Scan# 617

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

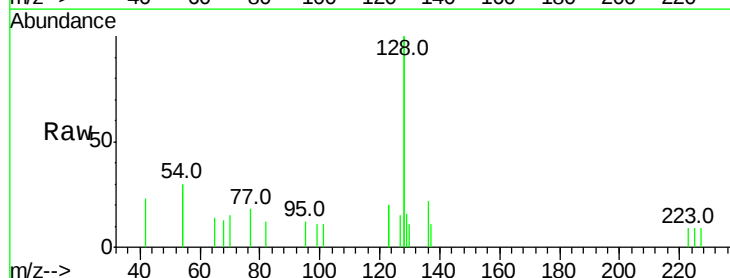
Tgt Ion: 128 Resp: 1406

Ion Ratio Lower Upper

128 100

129 7.9 2.6 3.8#

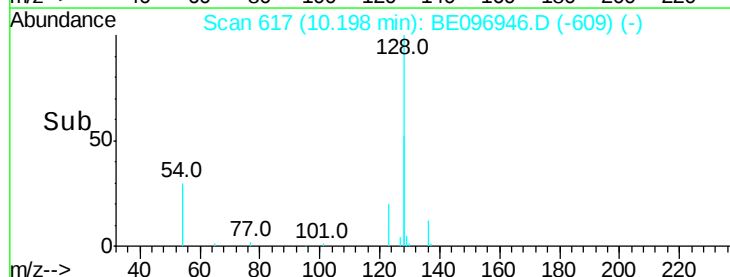
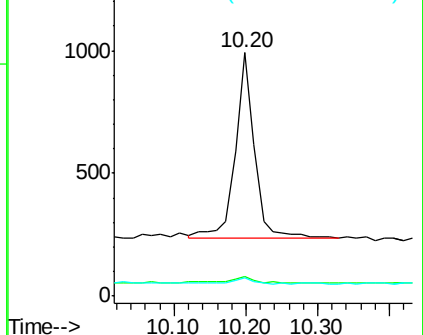
127 7.7 2.8 4.2#

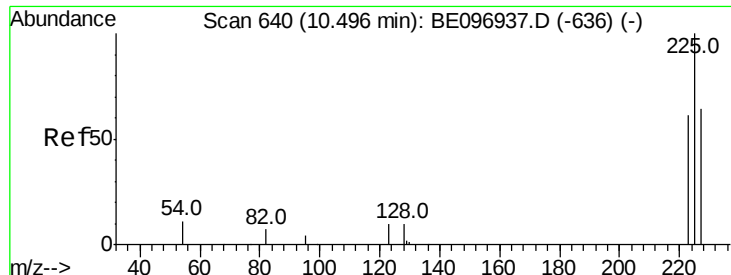


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

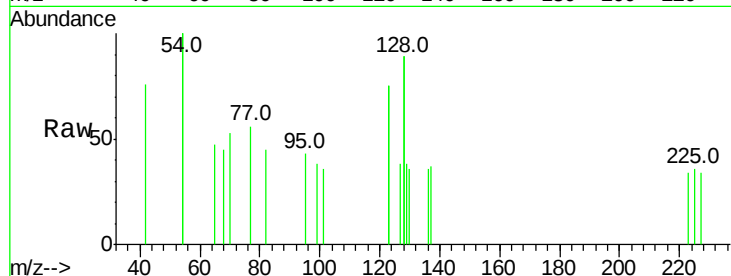




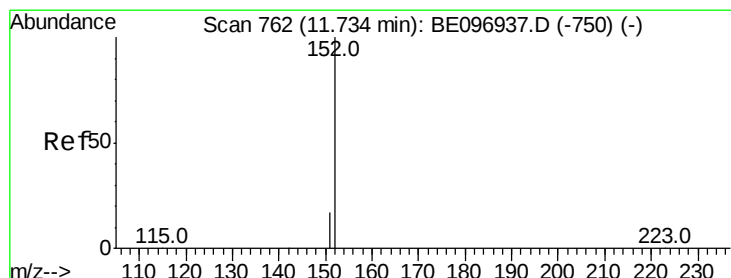
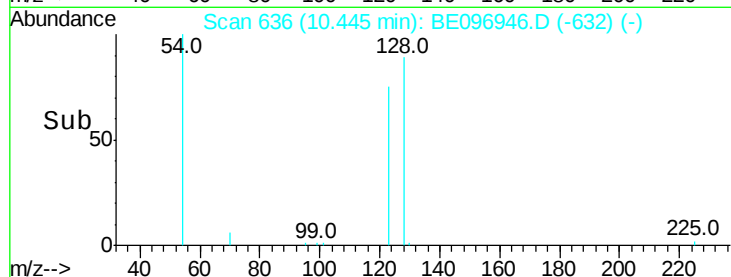
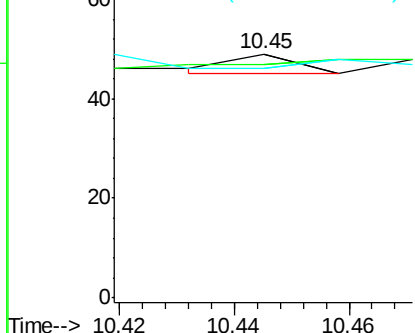
#10  
Hexachlorobutadiene  
Concen: 0.001 ng  
RT: 10.45 min Scan# 636  
Delta R.T. -0.05 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:225 Resp: 3  
Ion Ratio Lower Upper  
225 100  
223 233.3 53.0 79.6#  
227 166.7 51.4 77.2#

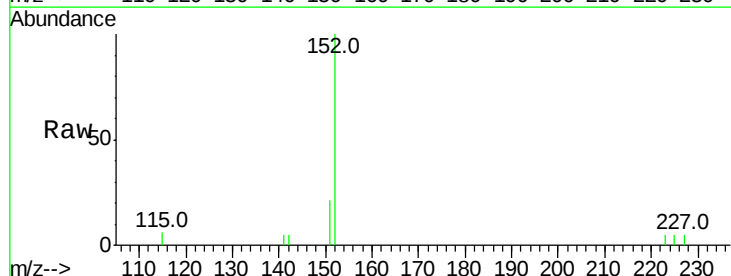


Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E

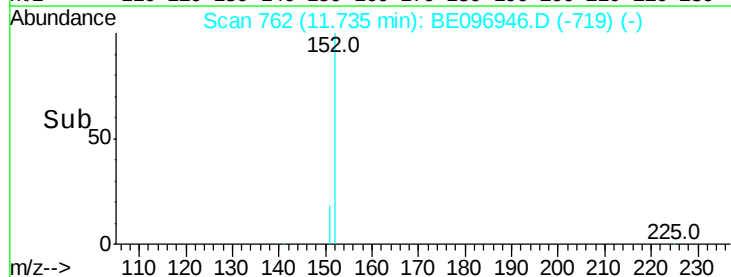
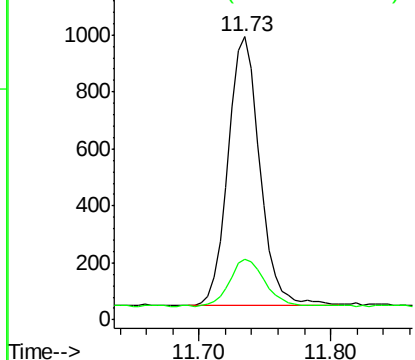


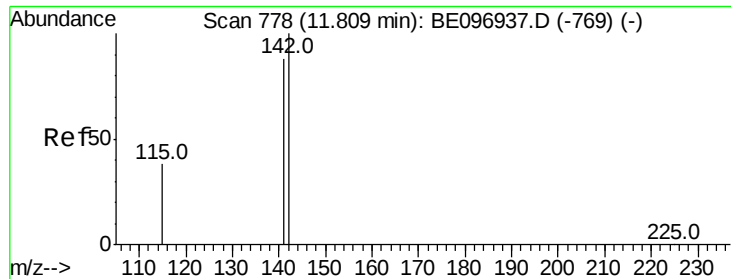
#11  
2-Methylnaphthalene-d10  
Concen: 0.096 ng  
RT: 11.73 min Scan# 762  
Delta R.T. 0.00 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

Tgt Ion:152 Resp: 1567  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.4 23.0



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





#12

2-Methylnaphthalene

Concen: 0.006 ng

RT: 11.81 min Scan# 778

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

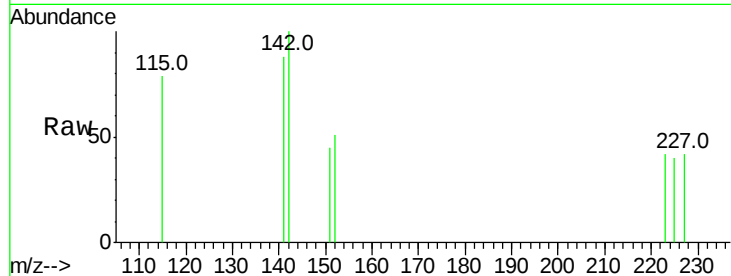
Tot Ion:142 Resp: 108

Ion Ratio Lower Upper

142 100

141 87.5 70.4 105.6

115 78.6 31.7 47.5#



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

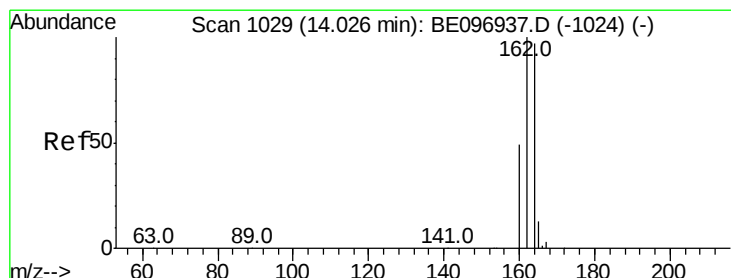
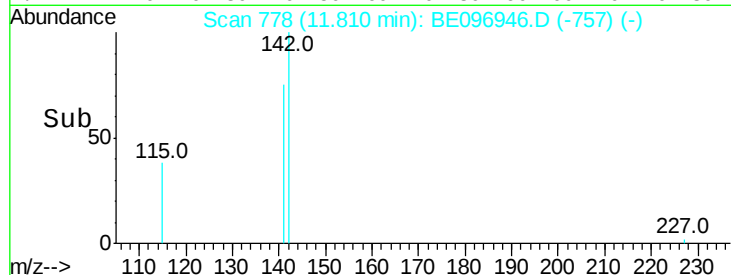
11.81

100

50

0

Time--> 11.75 11.80 11.85



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.03 min Scan# 1028

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

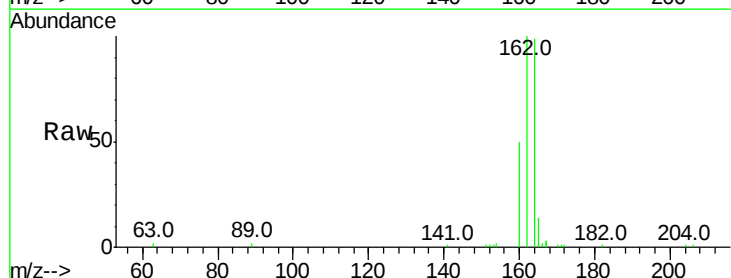
Tgt Ion:164 Resp: 6196

Ion Ratio Lower Upper

164 100

162 101.0 83.1 124.7

160 50.4 37.1 55.7



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

14.03

5000

4000

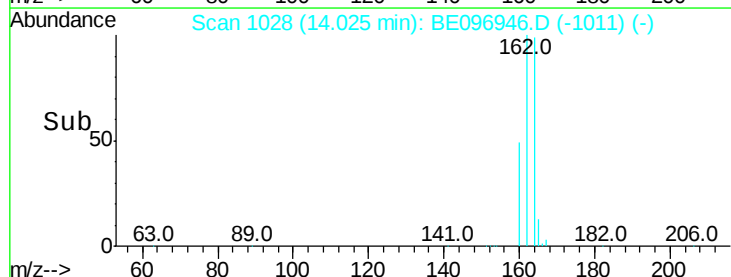
3000

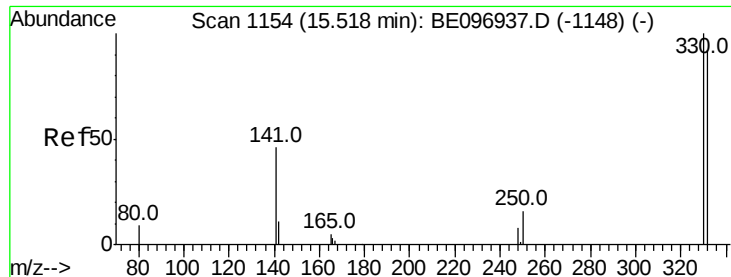
2000

1000

0

Time--> 13.90 14.00 14.10

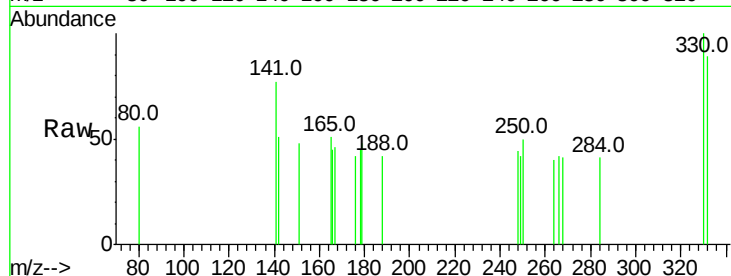




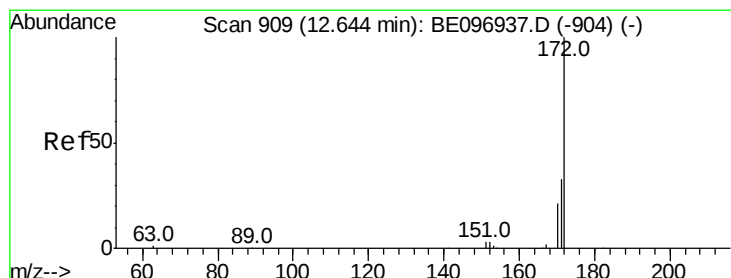
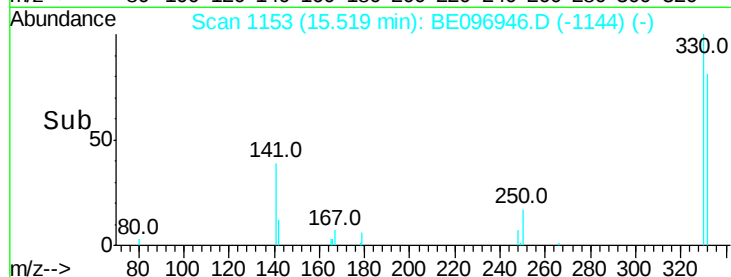
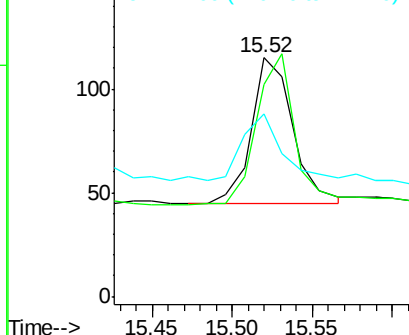
#14  
 2,4,6-Tribromophenol  
 Concen: 0.135 ng  
 RT: 15.52 min Scan# 1153  
 Delta R.T. 0.00 min  
 Lab File: BE096946.D  
 Acq: 16 Jul 2018 20:09

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:330 Resp: 126  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 152.7 229.1#  
 141 43.7 33.7 50.5

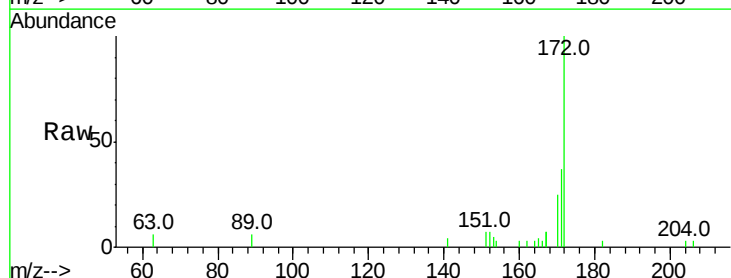


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

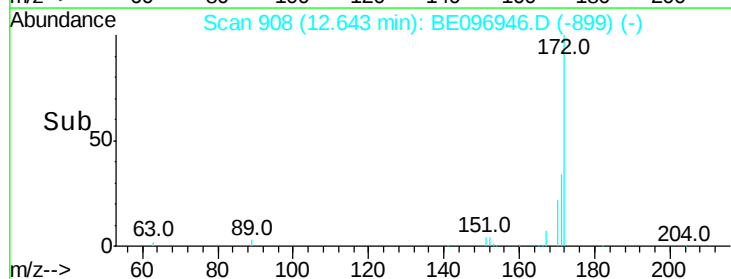
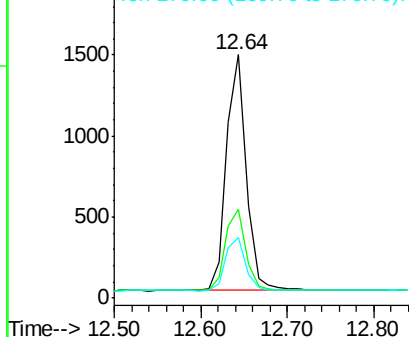


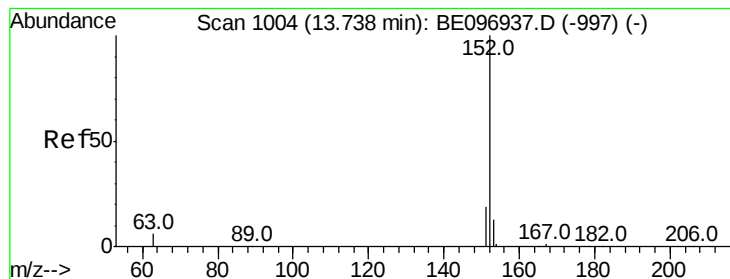
#15  
 2-Fluorobiphenyl  
 Concen: 0.101 ng  
 RT: 12.64 min Scan# 908  
 Delta R.T. -0.00 min  
 Lab File: BE096946.D  
 Acq: 16 Jul 2018 20:09

Tgt Ion:172 Resp: 2322  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 29.9 44.9  
 170 24.9 21.8 32.8



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





#16

Acenaphthylene

Concen: 0.001 ng

RT: 13.74 min Scan# 1003

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

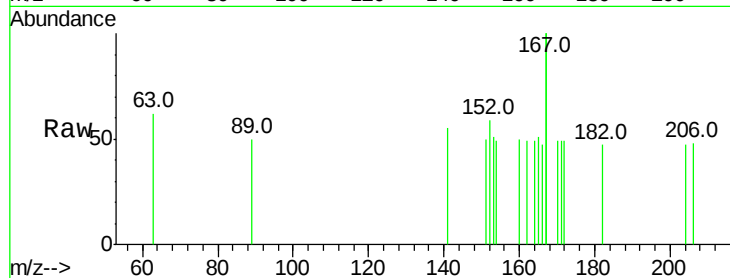
Tot Ion:152 Resp: 23

Ion Ratio Lower Upper

152 100

151 0.0 15.7 23.5#

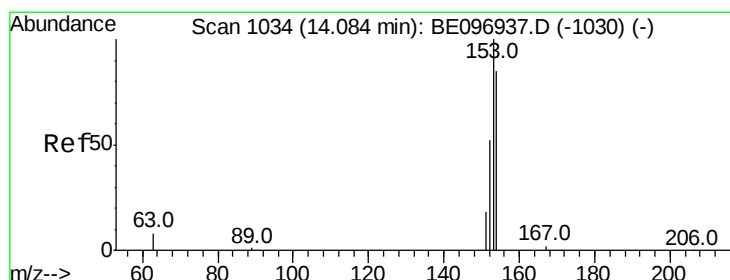
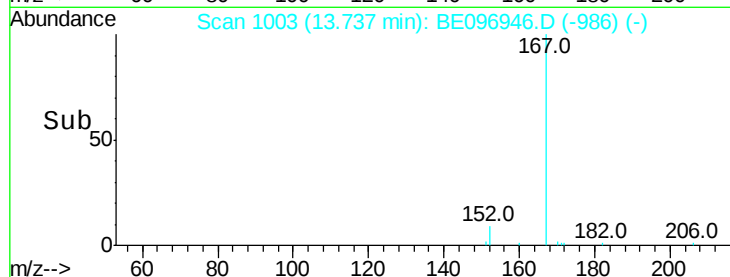
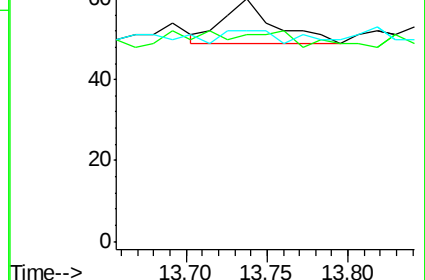
153 26.1 10.5 15.7#



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: 0.001 ng

RT: 14.08 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

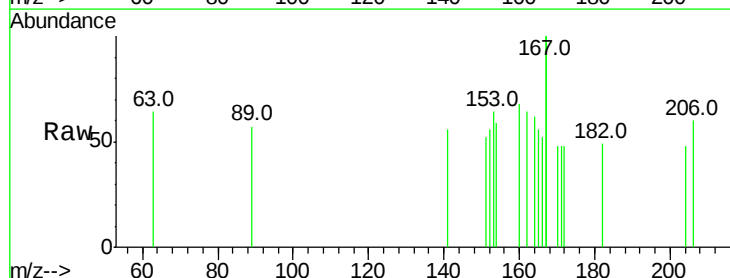
Tgt Ion:154 Resp: 9

Ion Ratio Lower Upper

154 100

153 277.8 89.2 133.8#

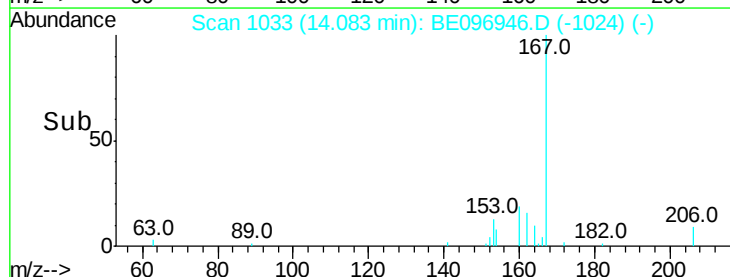
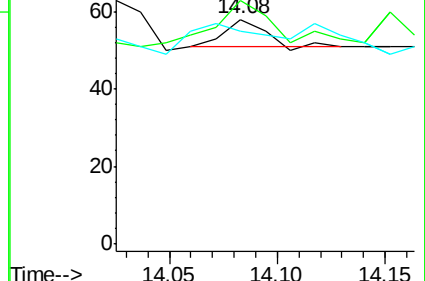
152 222.2 42.0 63.0#

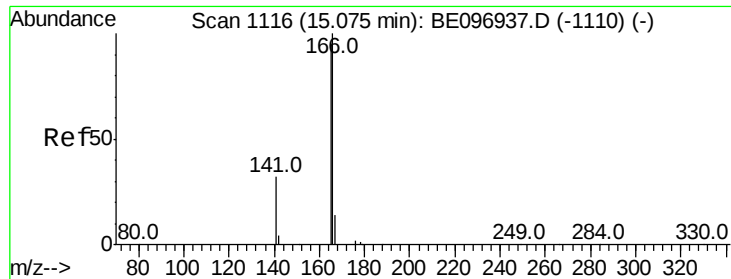


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#18

Fluorene

Concen: 0.002 ng

RT: 15.08 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

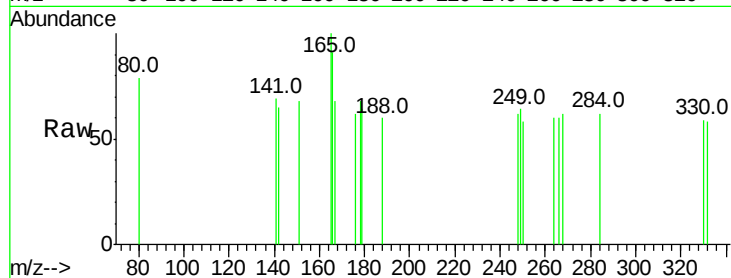
Tot Ion:166 Resp: 46

Ion Ratio Lower Upper

166 100

165 89.1 77.8 116.6

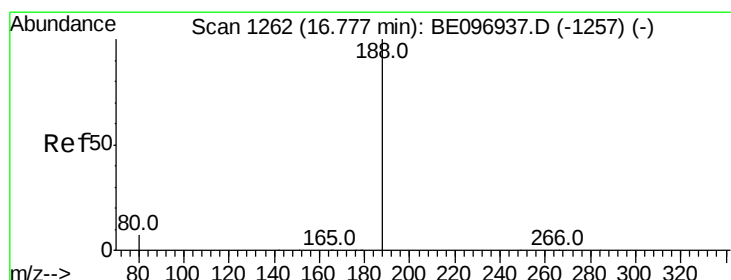
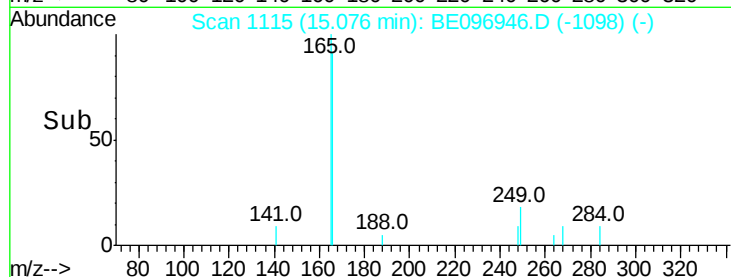
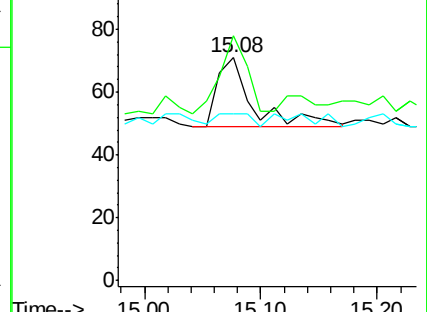
167 21.7 42.4 63.6#



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: 16.77 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

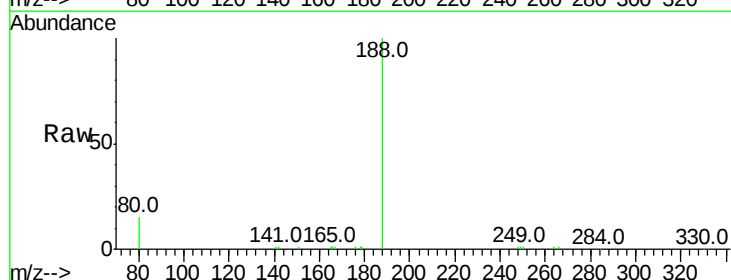
Tgt Ion:188 Resp: 14990

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

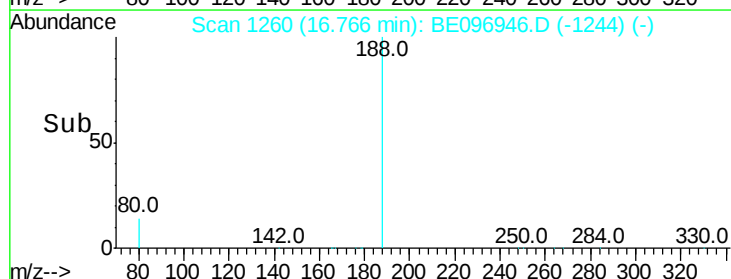
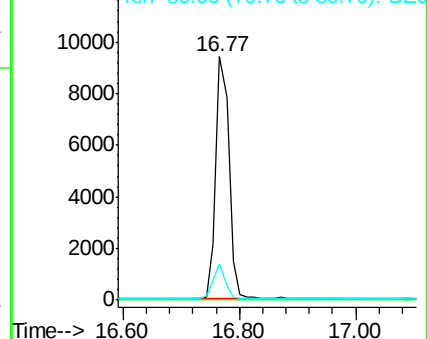
80 14.7 3.6 5.4#

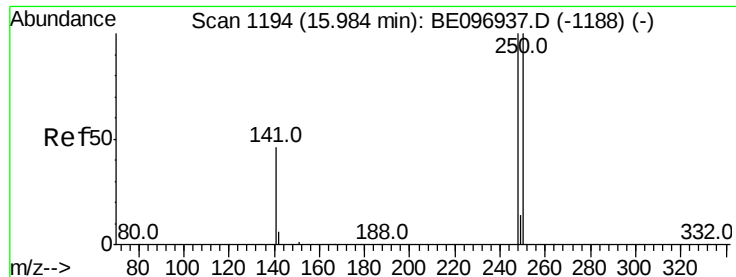


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

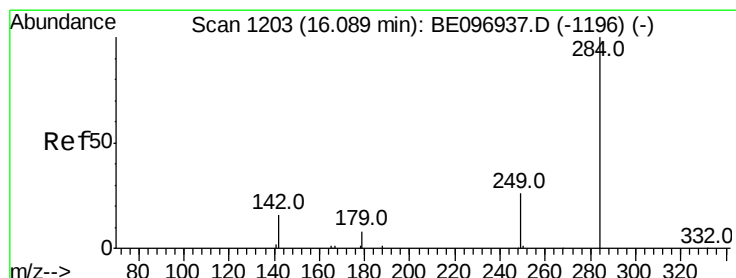
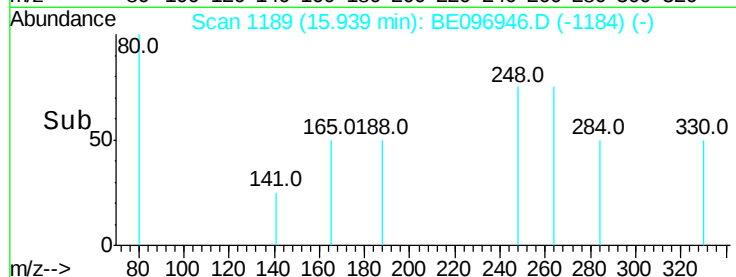
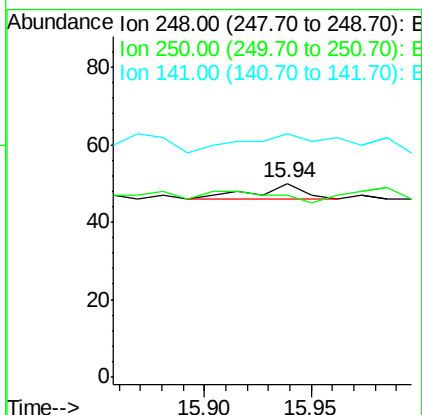
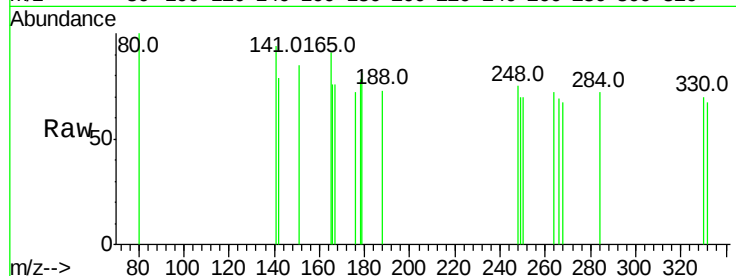




#20  
4-Bromophenyl-phenylether  
Concen: 0.001 ng  
RT: 15.94 min Scan# 1189  
Delta R.T. -0.05 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

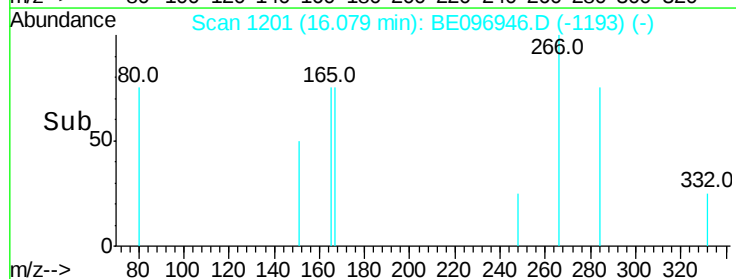
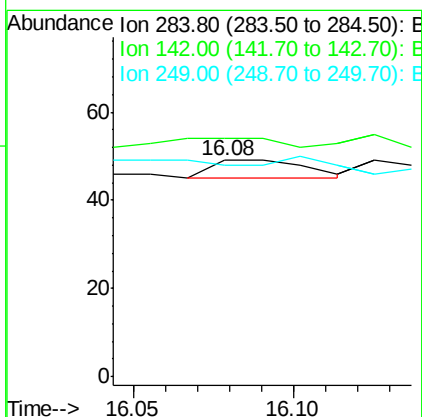
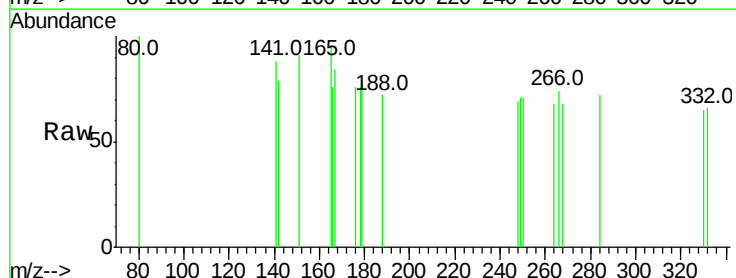
Instrument :  
BNA\_E  
ClientSampled :

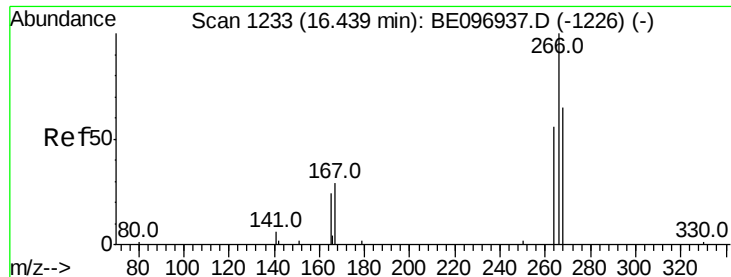
Tot Ion:248 Resp: 6  
Ion Ratio Lower Upper  
248 100  
250 94.0 62.7 94.1  
141 126.0 48.2 72.2#



#21  
Hexachlorobenzene  
Concen: 0.001 ng  
RT: 16.08 min Scan# 1201  
Delta R.T. -0.01 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

Tgt Ion:284 Resp: 8  
Ion Ratio Lower Upper  
284 100  
142 125.0 22.1 33.1#  
249 0.0 34.8 52.2#





#22

Pentachlorophenol

Concen: Below Cal

RT: 16.45 min Scan# 1233

Delta R.T. 0.01 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

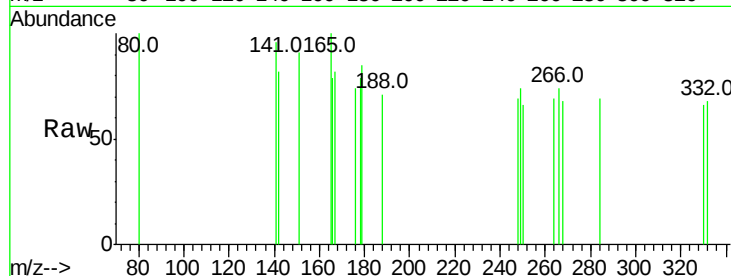
Tot Ion:266 Resp: 15

Ion Ratio Lower Upper

266 100

264 94.0 72.5 108.7

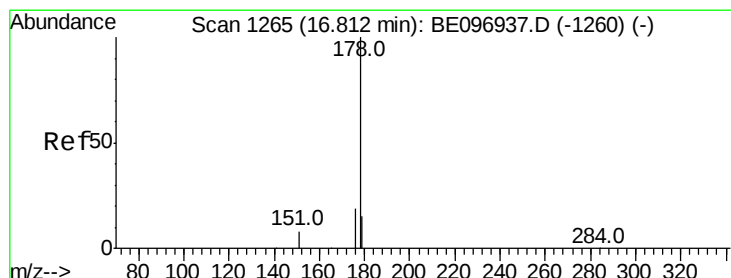
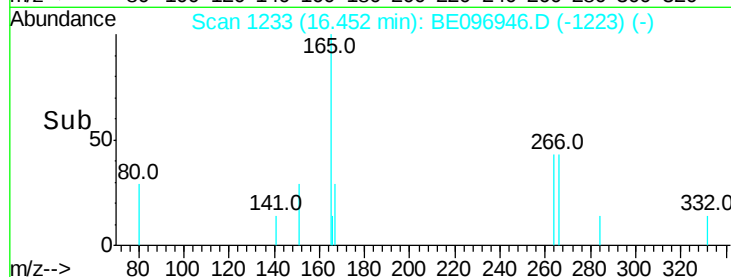
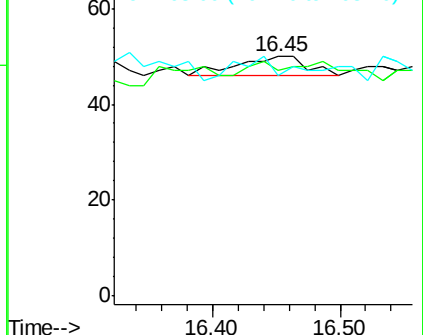
268 92.0 73.8 110.6



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: 0.005 ng

RT: 16.81 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

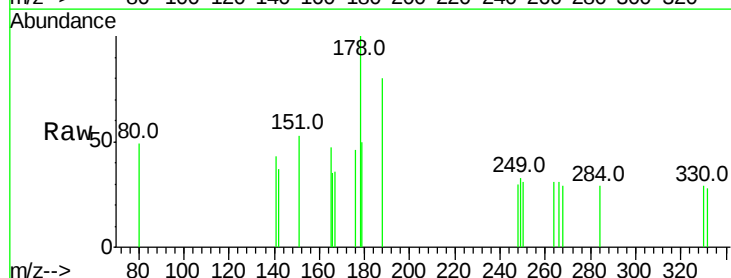
Tgt Ion:178 Resp: 180

Ion Ratio Lower Upper

178 100

176 21.1 15.1 22.7

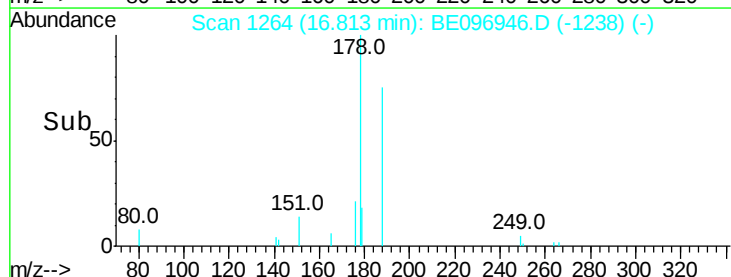
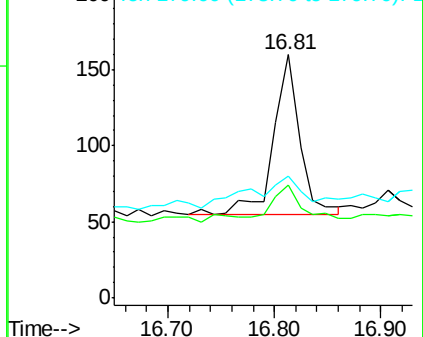
179 42.2 11.8 17.6#

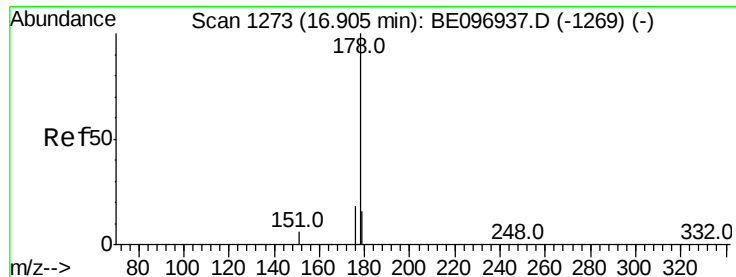


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.000 ng

RT: 16.91 min Scan# 1272

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

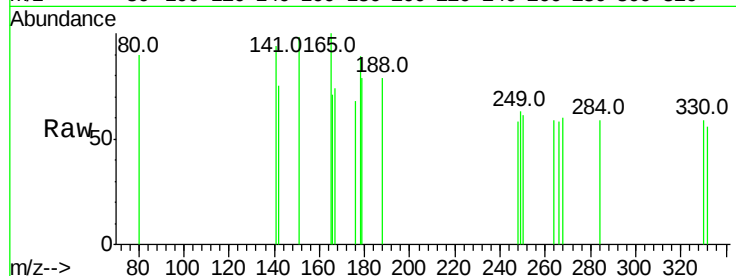
Tot Ion:178 Resp: 13

Ion Ratio Lower Upper

178 100

176 0.0 12.8 19.2#

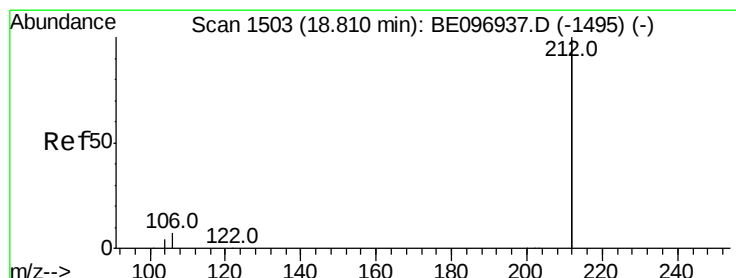
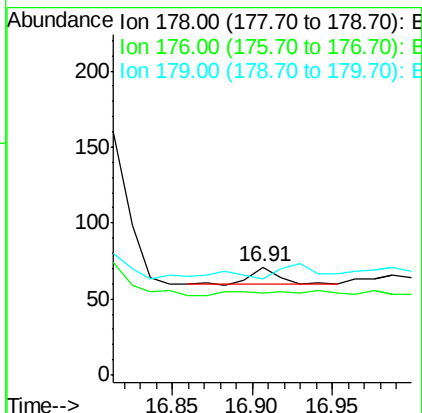
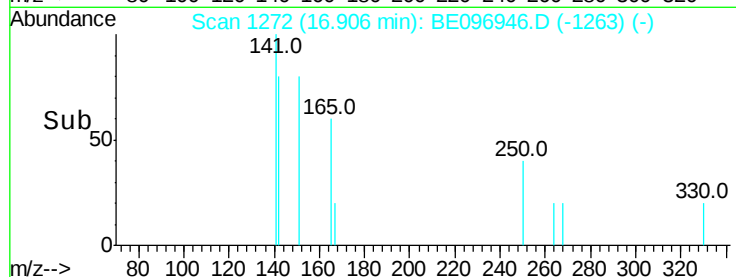
179 0.0 13.0 19.6#



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: 0.101 ng

RT: 18.81 min Scan# 1502

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

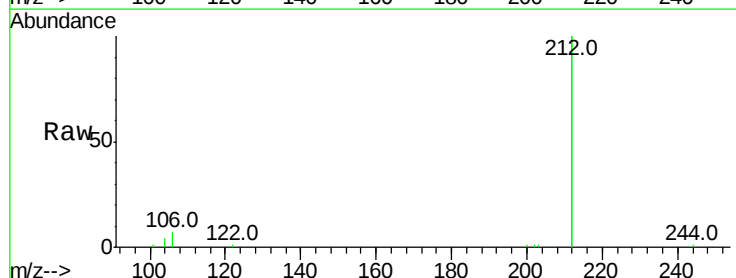
Tgt Ion:212 Resp: 13128

Ion Ratio Lower Upper

212 100

106 3.4 2.8 4.2

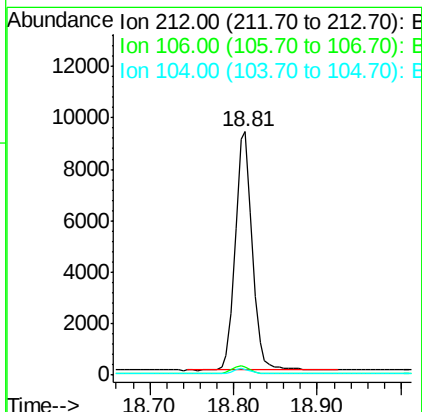
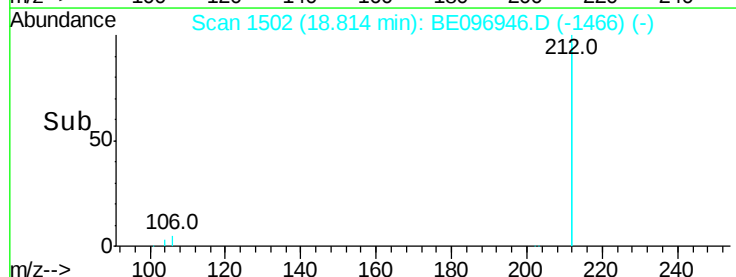
104 2.0 1.6 2.4

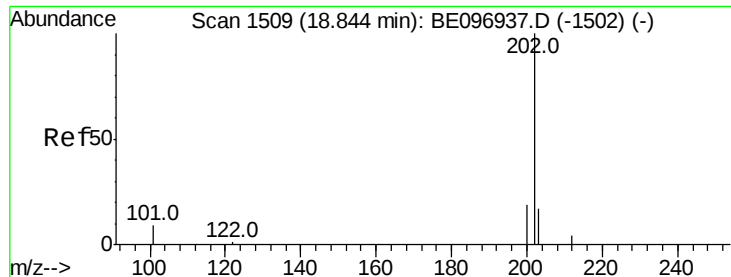


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E





#26

Fluoranthene

Concen: 0.002 ng

RT: 18.84 min Scan# 1507

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

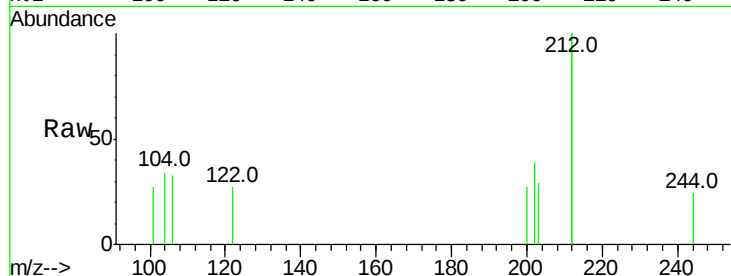
Tot Ion:202 Resp: 66

Ion Ratio Lower Upper

202 100

101 10.6 9.8 14.8

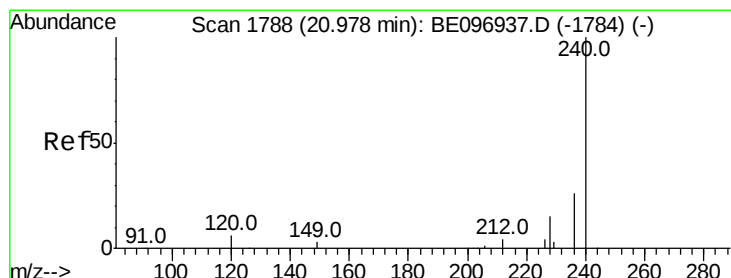
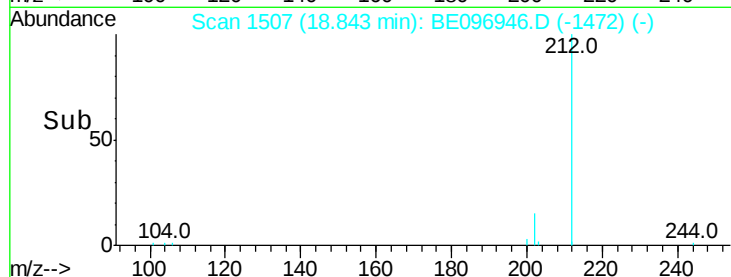
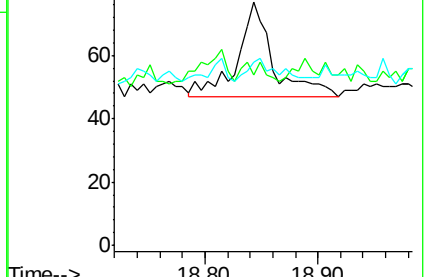
203 18.2 13.7 20.5



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: 20.98 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

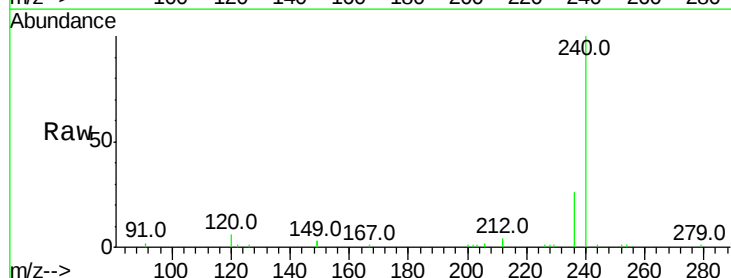
Tgt Ion:240 Resp: 11692

Ion Ratio Lower Upper

240 100

120 5.7 5.5 8.3

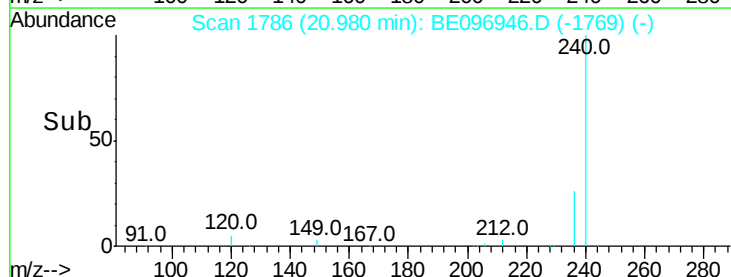
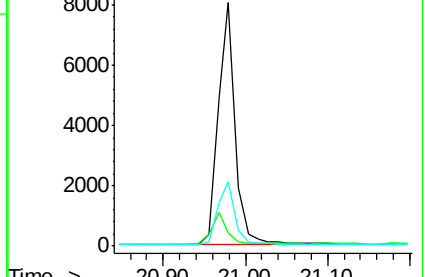
236 26.5 20.7 31.1

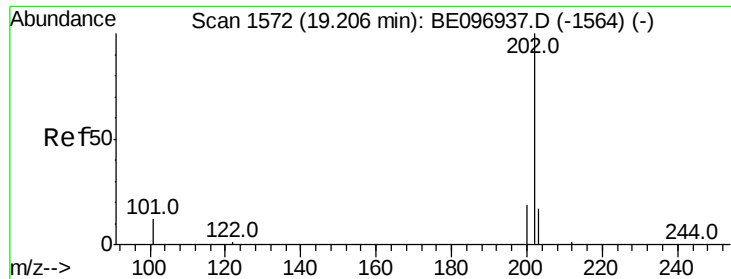


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#28

Pvrene

Concen: 0.001 ng

RT: 19.21 min Scan# 1571

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

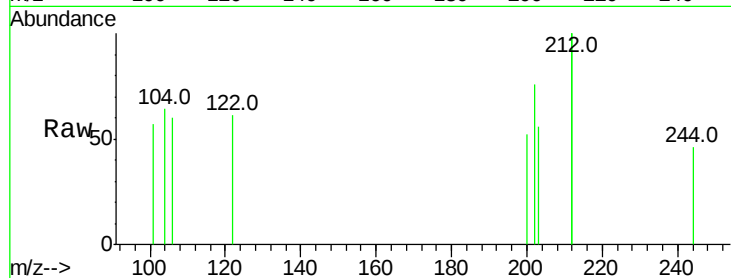
Tot Ion:202 Resp: 44

Ion Ratio Lower Upper

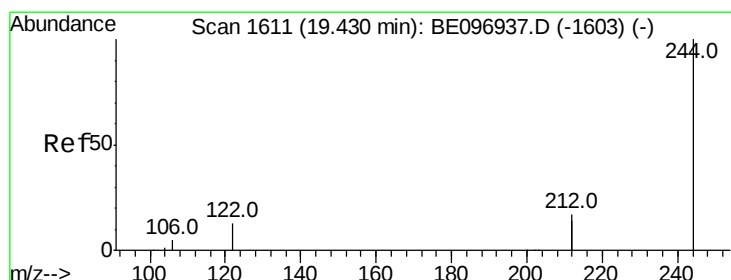
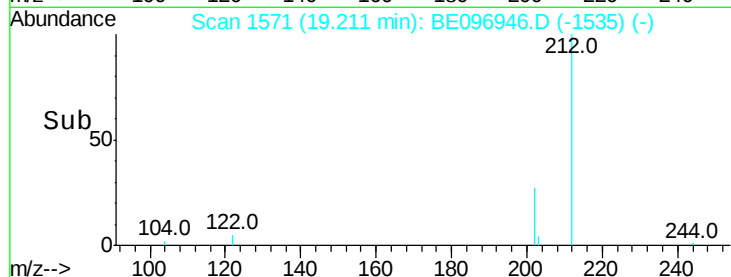
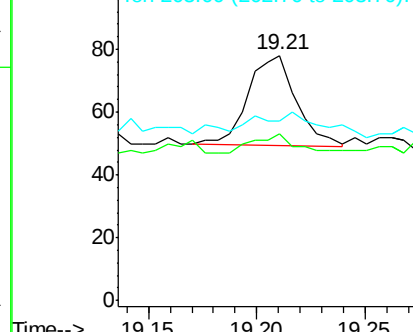
202 100

200 18.2 16.6 25.0

203 15.9 13.8 20.8



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: 0.205 ng

RT: 19.43 min Scan# 1609

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

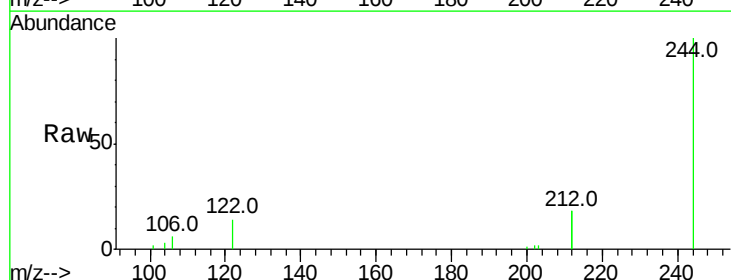
Tgt Ion:244 Resp: 4615

Ion Ratio Lower Upper

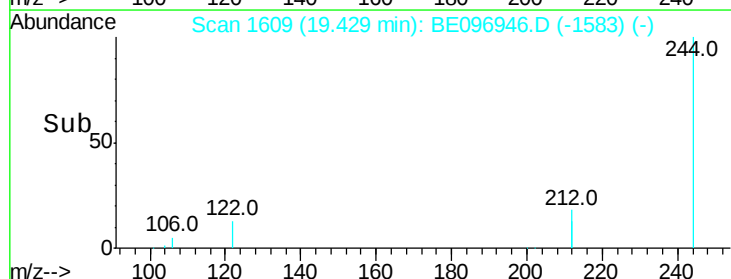
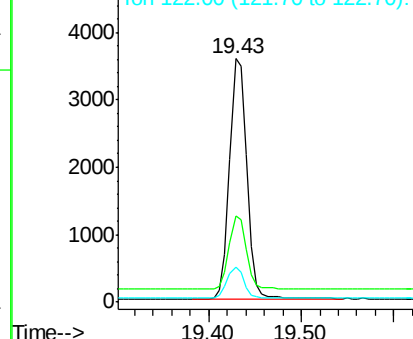
244 100

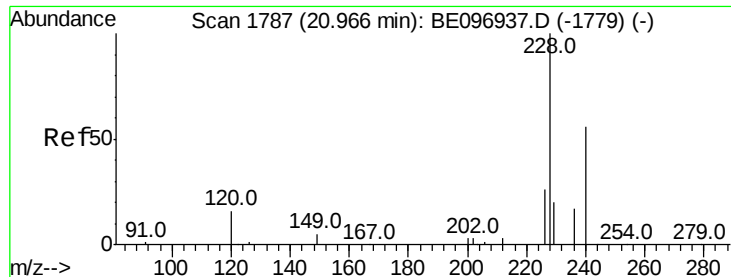
212 35.6 25.4 38.0

122 14.2 8.1 12.1#



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: 0.005 ng

RT: 20.98 min Scan# 1786

Delta R.T. 0.01 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

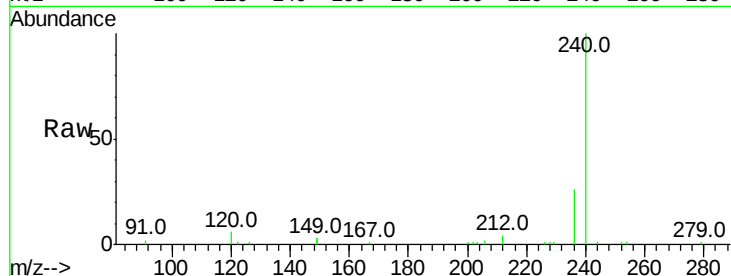
Tot Ion:228 Resp: 127

Ion Ratio Lower Upper

228 100

226 67.5 24.0 36.0#

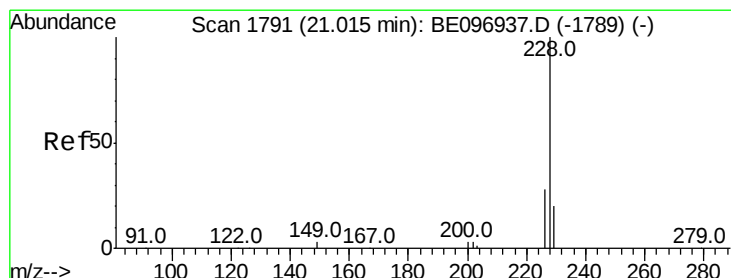
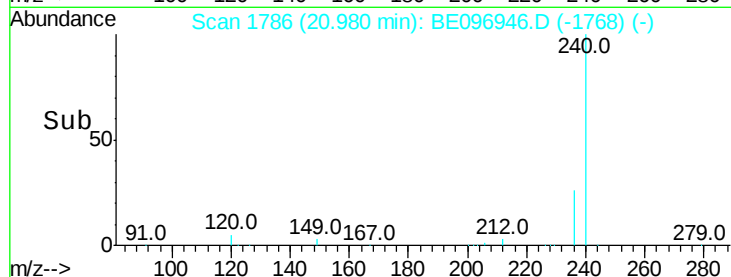
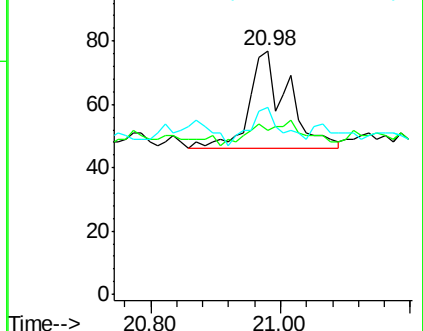
229 76.6 16.0 24.0#



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



#31

Chrysene

Concen: 0.003 ng

RT: 20.98 min Scan# 1786

Delta R.T. -0.04 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

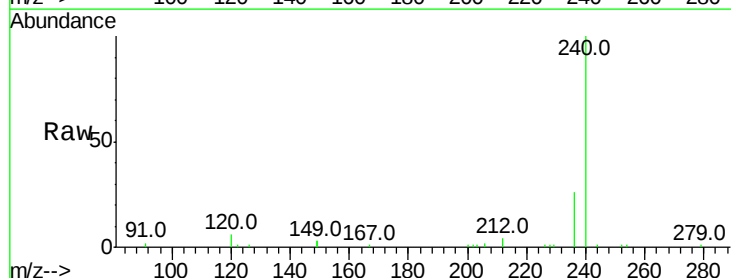
Tgt Ion:228 Resp: 96

Ion Ratio Lower Upper

228 100

226 67.5 24.0 36.0#

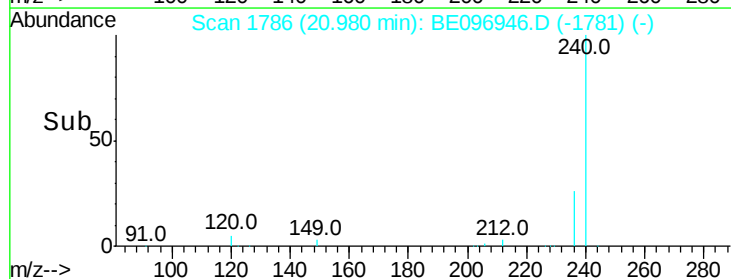
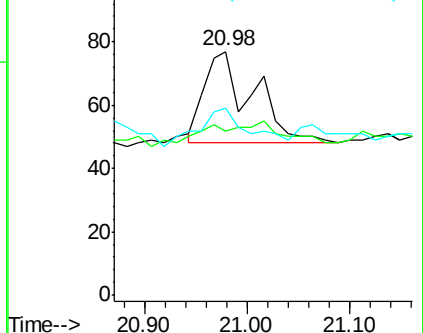
229 76.6 16.0 24.0#

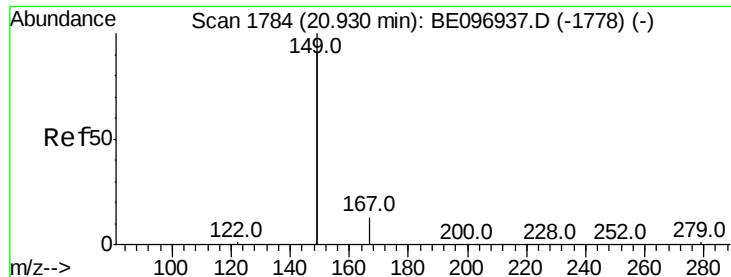


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.046 ng

RT: 20.93 min Scan# 1782

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

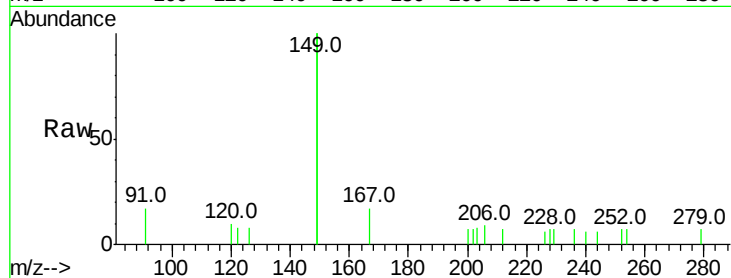
Tot Ion:149 Resp: 1280

Ion Ratio Lower Upper

149 100

167 6.5 5.4 8.0

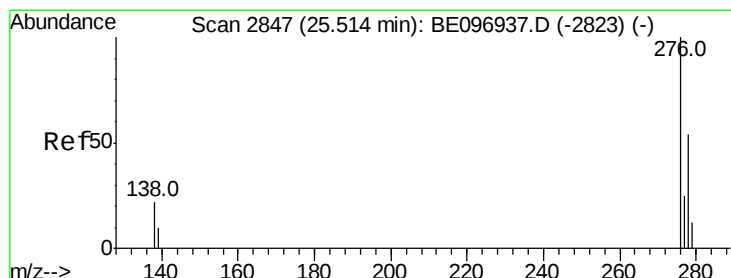
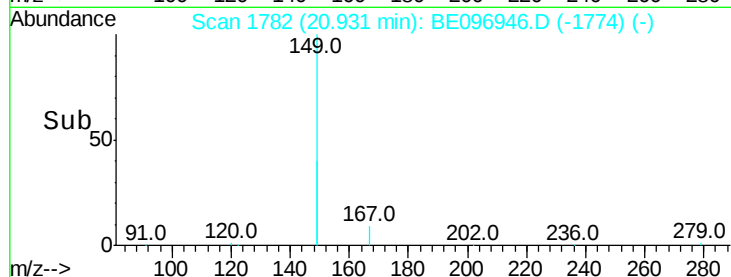
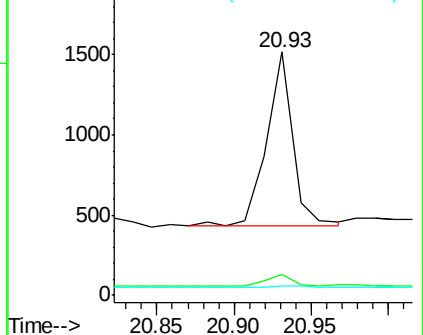
279 1.6 0.7 1.1#



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: 0.000 ng

RT: 25.51 min Scan# 2845

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

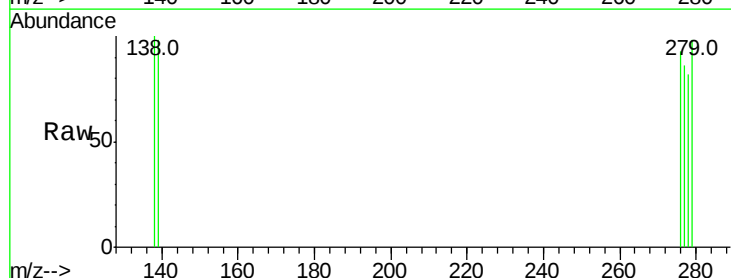
Tgt Ion:276 Resp: 3

Ion Ratio Lower Upper

276 100

138 166.7 22.5 33.7#

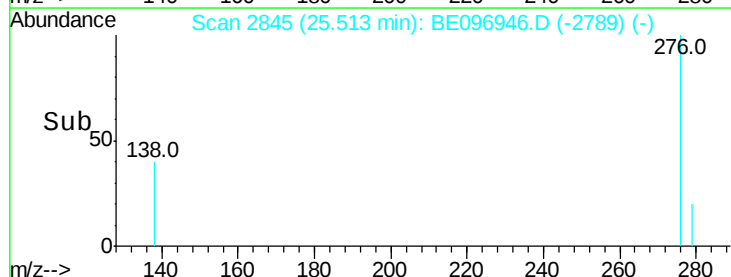
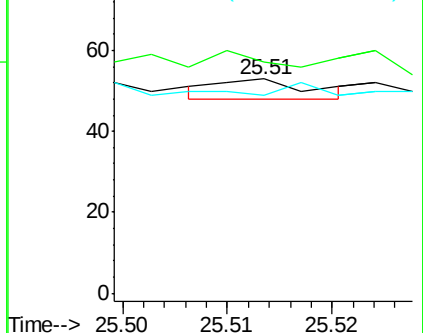
277 66.7 19.9 29.9#

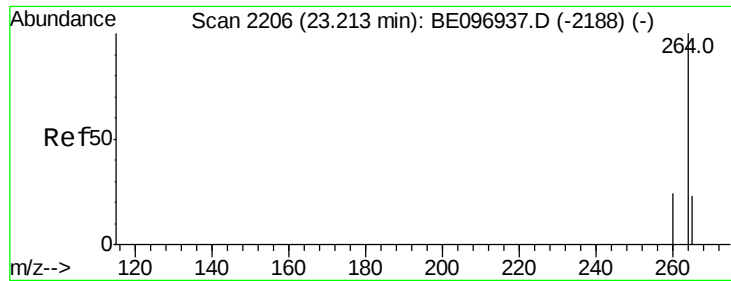


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

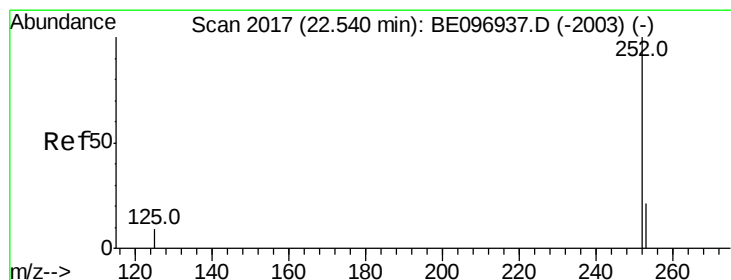
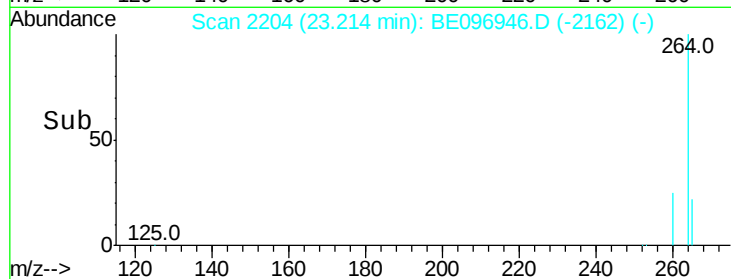
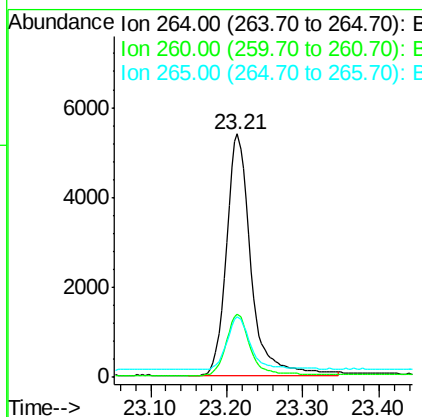
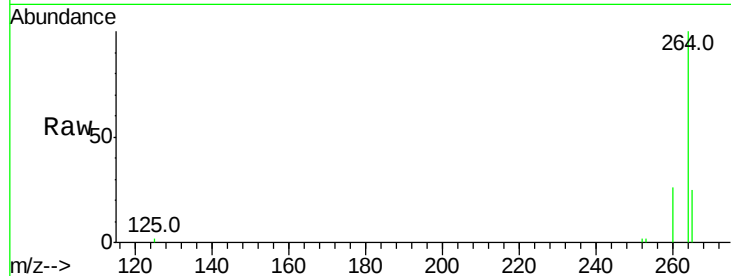




#34  
Pervlene-d12  
Concen: 0.400 ng  
RT: 23.21 min Scan# 2204  
Delta R.T. 0.00 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

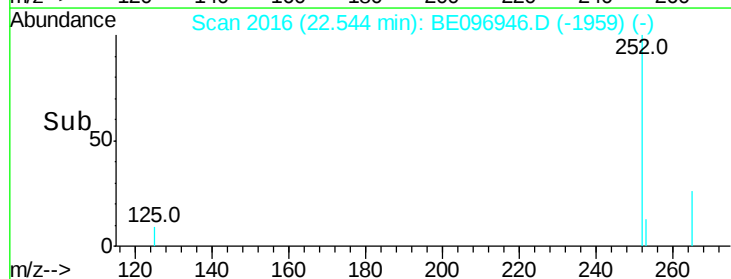
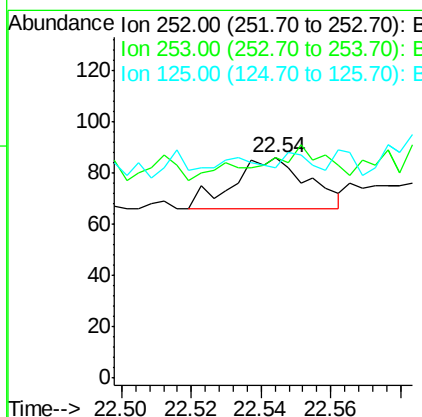
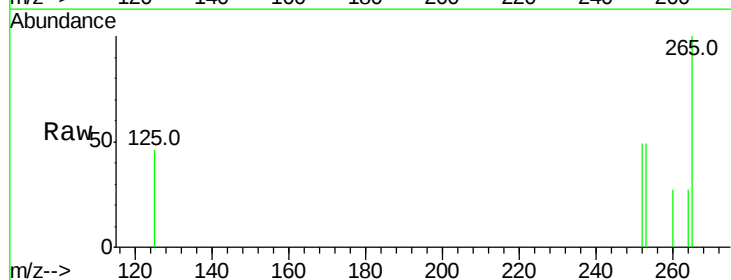
Instrument :  
BNA\_E  
ClientSampleId :

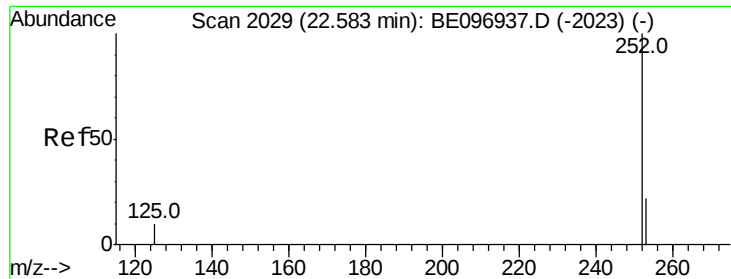
Tot Ion:264 Resp: 11939  
Ion Ratio Lower Upper  
264 100  
260 25.9 20.5 30.7  
265 24.6 22.8 34.2



#35  
Benzo(b)fluoranthene  
Concen: 0.001 ng  
RT: 22.54 min Scan# 2016  
Delta R.T. 0.00 min  
Lab File: BE096946.D  
Acq: 16 Jul 2018 20:09

Tgt Ion:252 Resp: 30  
Ion Ratio Lower Upper  
252 100  
253 100.0 20.0 30.0#  
125 95.3 16.0 24.0#





#36

Benzo(k)fluoranthene

Concen: 0.001 ng

RT: 22.54 min Scan# 2016

Delta R.T. -0.04 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

Instrument :

BNA\_E

ClientSampleId :

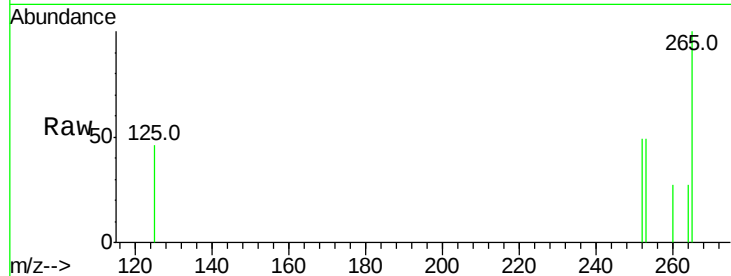
Tot Ion:252 Resp: 30

Ion Ratio Lower Upper

252 100

253 100.0 16.0 24.0#

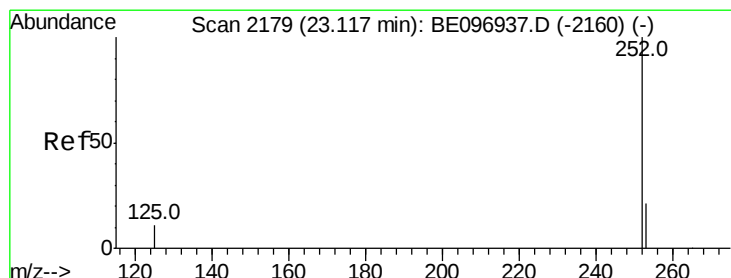
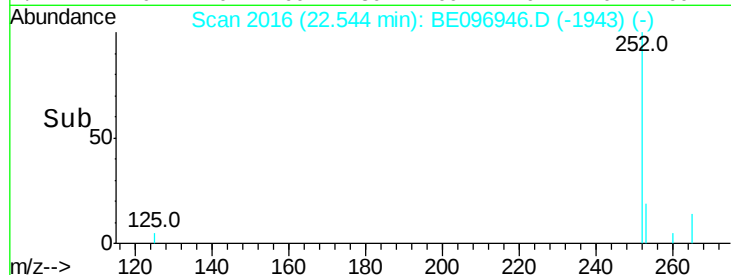
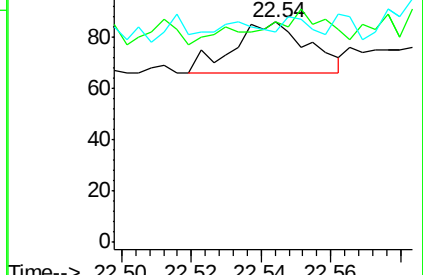
125 95.3 8.0 12.0#



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



#37

Benzo(a)pyrene

Concen: 0.102 ng

RT: 23.11 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

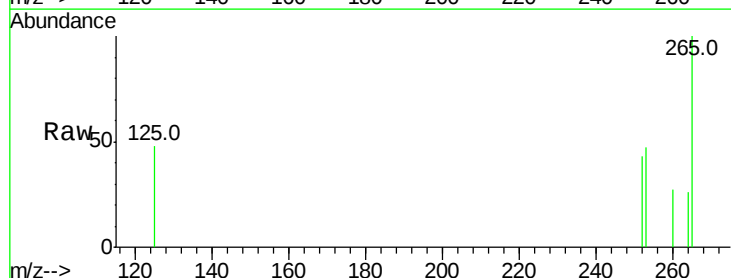
Tgt Ion:252 Resp: 20

Ion Ratio Lower Upper

252 100

253 108.9 16.0 24.0#

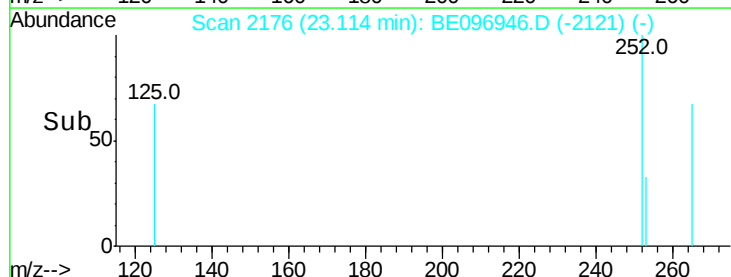
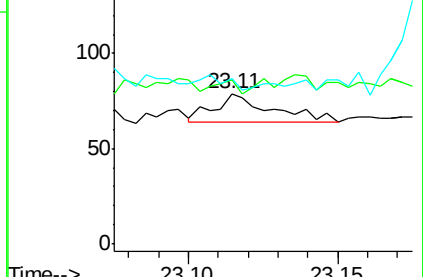
125 110.1 12.0 18.0#

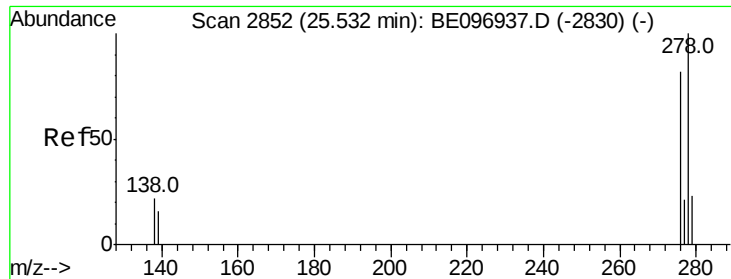


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Dibenzo(a,h)anthracene

Concen: 0.118 ng

RT: 25.52 min Scan# 2847

Delta R.T. -0.01 min

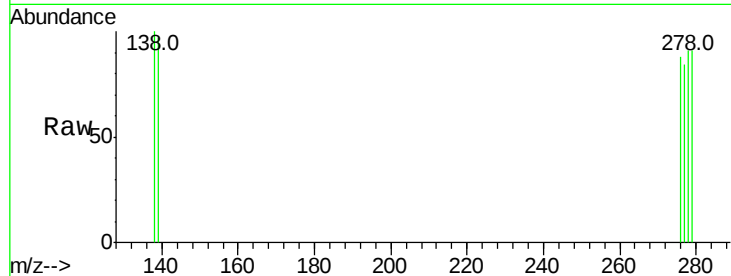
Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

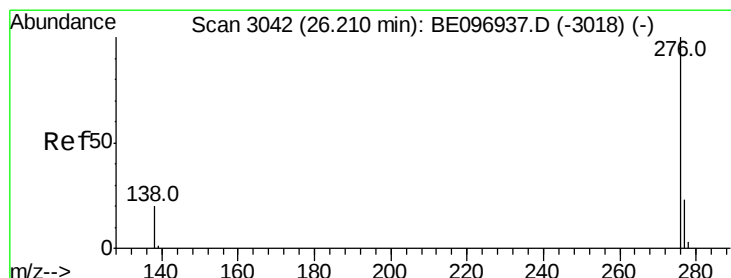
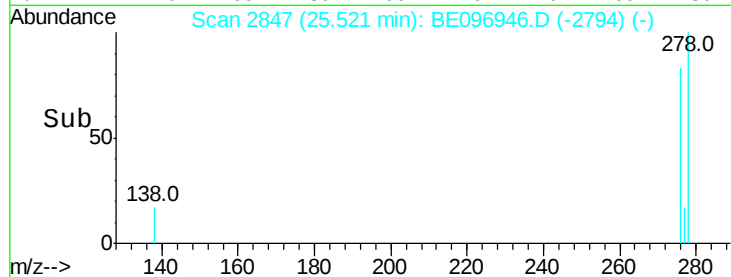
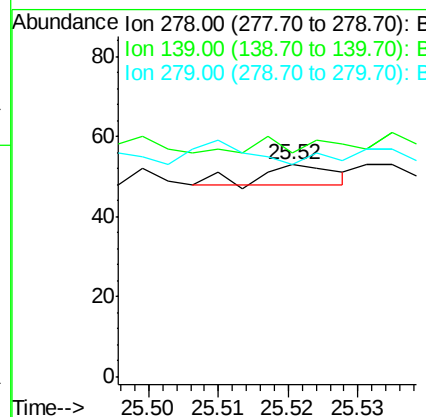
Instrument :

BNA\_E

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 278   | Resp: | 4     |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 105.7 | 16.0  | 24.0# |
| 279      | 100.0 | 20.0  | 30.0# |



#39

Benzo(g,h,i)perylene

Concen: 0.000 ng

RT: 26.21 min Scan# 3041

Delta R.T. 0.00 min

Lab File: BE096946.D

Acq: 16 Jul 2018 20:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 4     |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 94.3  | 16.0  | 24.0# |
| 138      | 105.7 | 20.0  | 30.0# |

