

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE091918\  
 Data File : BE097570.D  
 Acq On : 20 Sep 2018 10:13  
 Operator : SJ/JU  
 Sample : PB112778BSD  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112778BSD

Quant Time: Sep 20 11:03:41 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE091918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 20 10:54:43 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.38  | 152  | 1153     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 4836     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2356     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.77 | 188  | 5498     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 20.97 | 240  | 7564     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 7645     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.06  | 112  | 1384     | 0.40 | ng    | 0.01     |
| 5) Phenol-d6                | 6.62  | 99   | 1568     | 0.35 | ng    | 0.01     |
| 8) Nitrobenzene-d5          | 8.53  | 82   | 1447     | 0.39 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.72 | 152  | 3680     | 0.55 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.53 | 330  | 270      | 0.33 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.62 | 172  | 3895     | 0.47 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 18.80 | 212  | 26827    | 0.38 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.42 | 244  | 4895     | 0.35 | ng    | 0.00     |

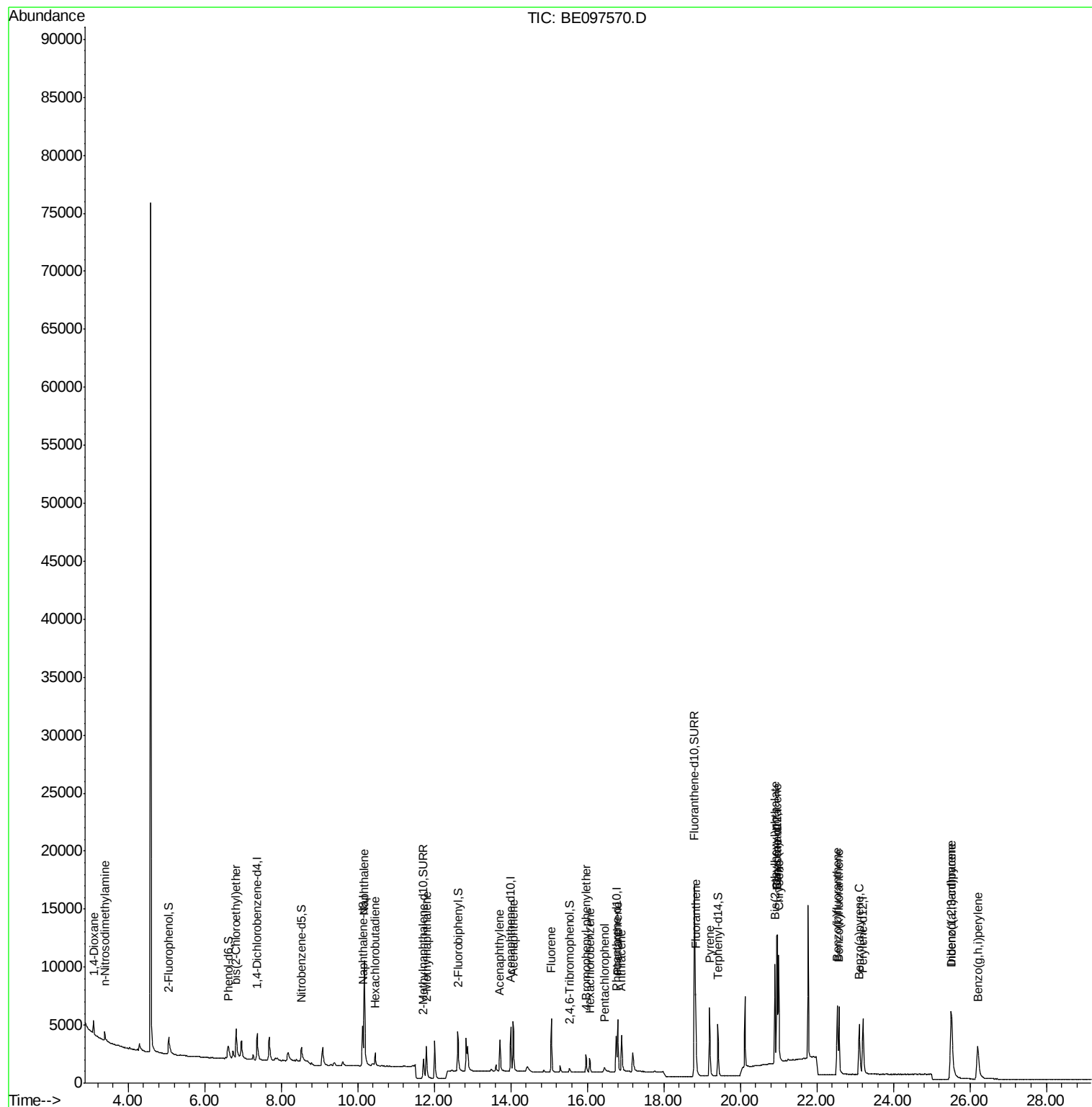
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.09  | 88   | 684      | 0.341 | ng    | 96     |
| 3) n-Nitrosodimethylamine      | 3.38  | 42   | 681      | 0.406 | ng    | # 96   |
| 6) bis(2-Chloroethyl)ether     | 6.82  | 93   | 1346     | 0.329 | ng    | 78     |
| 9) Naphthalene                 | 10.17 | 128  | 18088    | 0.415 | ng    | 100    |
| 10) Hexachlorobutadiene        | 10.46 | 225  | 748      | 0.373 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 11.80 | 142  | 2718     | 0.400 | ng    | 98     |
| 16) Acenaphthylene             | 13.71 | 152  | 3624     | 0.389 | ng    | 99     |
| 17) Acenaphthene               | 14.06 | 154  | 2435     | 0.390 | ng    | 96     |
| 18) Fluorene                   | 15.06 | 166  | 3073     | 0.378 | ng    | # 79   |
| 20) 4-Bromophenyl-phenylether  | 15.96 | 248  | 938      | 0.378 | ng    | # 81   |
| 21) Hexachlorobenzene          | 16.07 | 284  | 1136     | 0.417 | ng    | # 84   |
| 22) Pentachlorophenol          | 16.45 | 266  | 450      | 0.498 | ng    | # 80   |
| 23) Phenanthrene               | 16.80 | 178  | 5103     | 0.391 | ng    | 99     |
| 24) Anthracene                 | 16.89 | 178  | 4429     | 0.384 | ng    | 95     |
| 26) Fluoranthene               | 18.83 | 202  | 6439     | 0.356 | ng    | 99     |
| 28) Pyrene                     | 19.20 | 202  | 6570     | 0.382 | ng    | 100    |
| 30) Benzo(a)anthracene         | 20.95 | 228  | 7638     | 0.401 | ng    | 96     |
| 31) Chrysene                   | 21.00 | 228  | 8177     | 0.400 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 20.91 | 149  | 9706     | 0.314 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 25.51 | 276  | 9959     | 0.405 | ng    | # 91   |
| 35) Benzo(b)fluoranthene       | 22.53 | 252  | 8291     | 0.423 | ng    | # 89   |
| 36) Benzo(k)fluoranthene       | 22.58 | 252  | 9036     | 0.404 | ng    | 93     |
| 37) Benzo(a)pyrene             | 23.11 | 252  | 8020     | 0.421 | ng    | # 91   |
| 38) Dibenzo(a,h)anthracene     | 25.53 | 278  | 8347     | 0.406 | ng    | 96     |
| 39) Benzo(g,h,i)perylene       | 26.21 | 276  | 8426     | 0.422 | ng    | # 88   |

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

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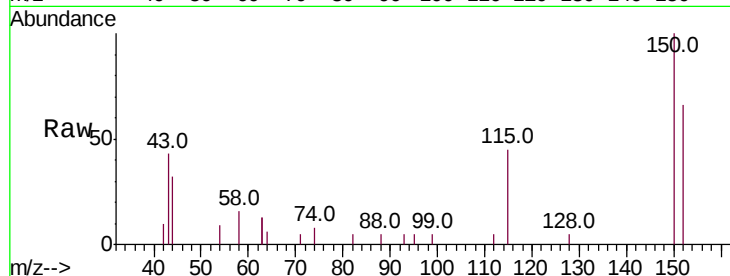


#1

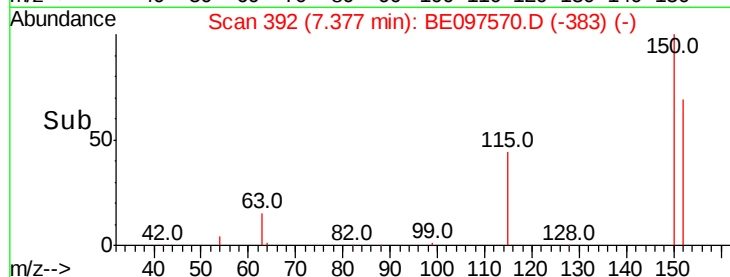
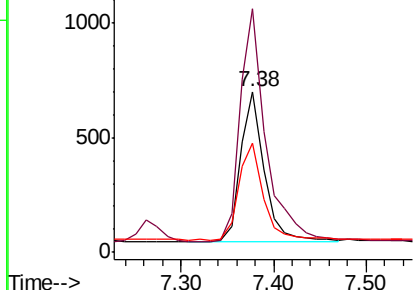
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.38 min Scan# 392  
 Delta R.T. -0.00 min  
 Lab File: BE097570.D  
 Acq: 20 Sep 2018 10:13

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112778BSD

Tot Ion:152 Resp: 1153  
 Ion Ratio Lower Upper  
 152 100  
 150 151.6 117.2 175.8  
 115 67.6 57.0 85.6



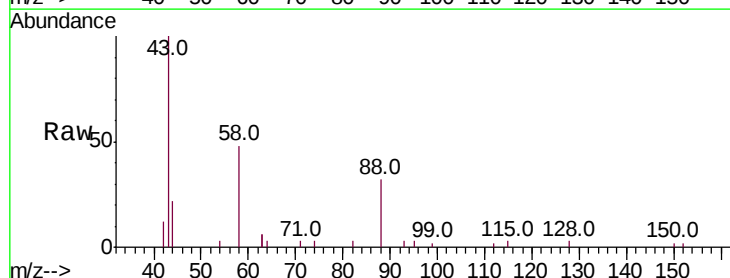
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



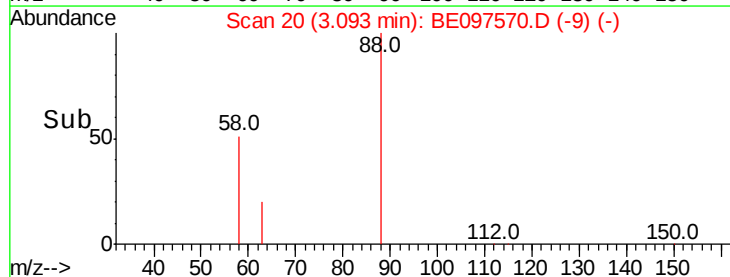
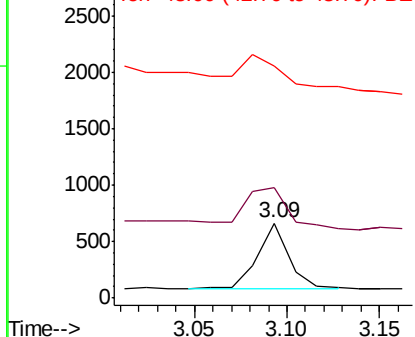
#2

1,4-Dioxane  
 Concen: 0.341 ng  
 RT: 3.09 min Scan# 20  
 Delta R.T. 0.02 min  
 Lab File: BE097570.D  
 Acq: 20 Sep 2018 10:13

Tgt Ion: 88 Resp: 684  
 Ion Ratio Lower Upper  
 88 100  
 58 85.2 63.2 94.8  
 43 51.3 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





#3

n-Nitrosodimethylamine

Concen: 0.406 ng

RT: 3.38 min Scan# 45

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

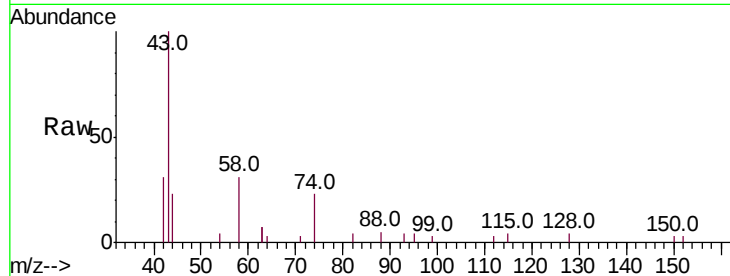
Tot Ion: 42 Resp: 681

Ion Ratio Lower Upper

42 100

74 118.1 96.0 144.0

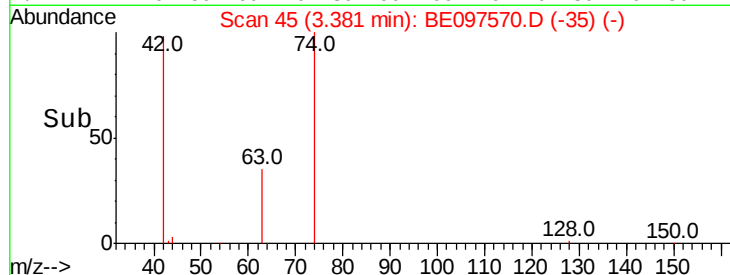
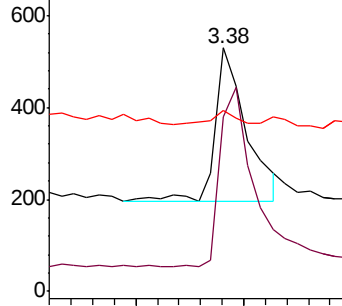
44 6.8 12.0 18.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.401 ng

RT: 5.06 min Scan# 191

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

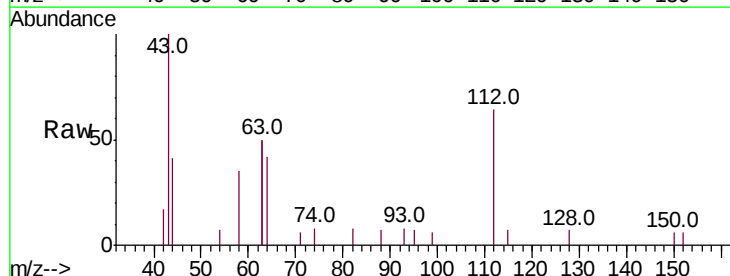
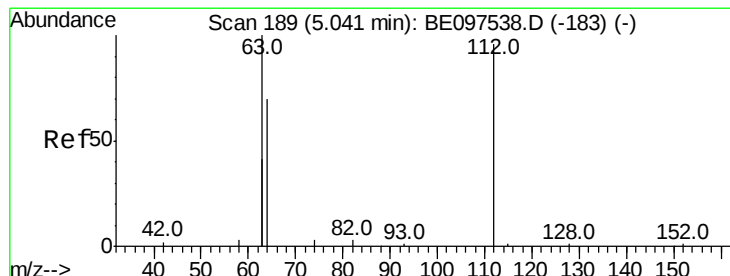
Tgt Ion: 112 Resp: 1384

Ion Ratio Lower Upper

112 100

64 63.6 60.1 90.1

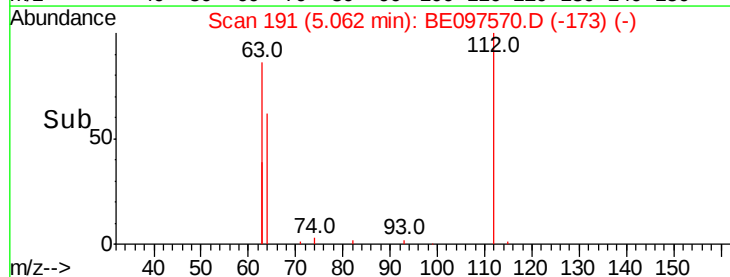
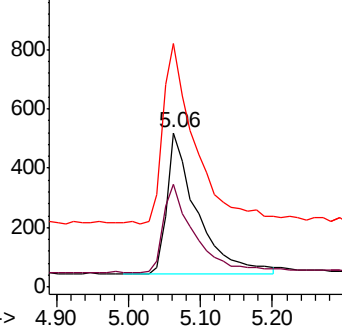
63 135.0 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.355 ng

RT: 6.62 min Scan# 326

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

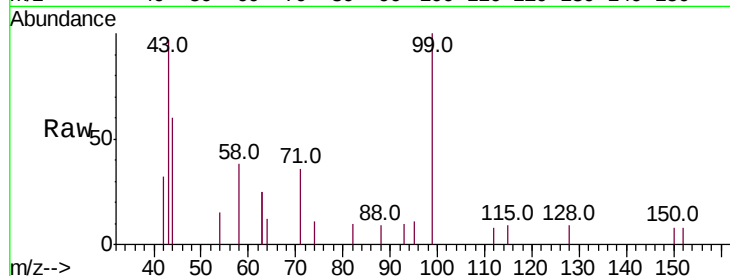
Tot Ion: 99 Resp: 1568

Ion Ratio Lower Upper

99 100

42 21.9 20.2 30.2

71 34.1 28.4 42.6



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

6.62

600

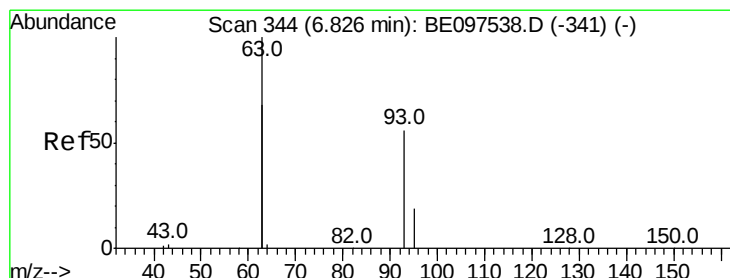
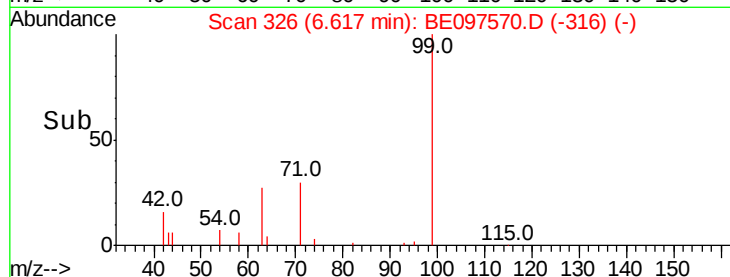
400

200

0

6.50 6.55 6.60 6.65 6.70

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.329 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

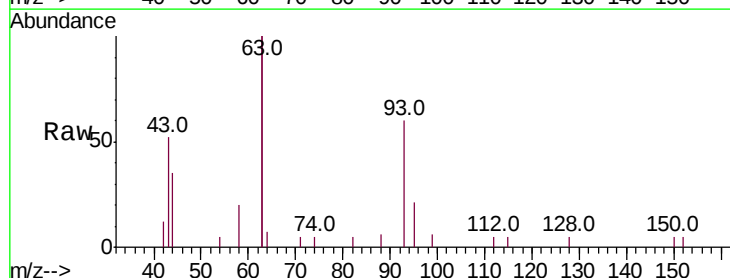
Tgt Ion: 93 Resp: 1346

Ion Ratio Lower Upper

93 100

63 292.7 275.3 412.9

95 34.2 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

2500

2000

1500

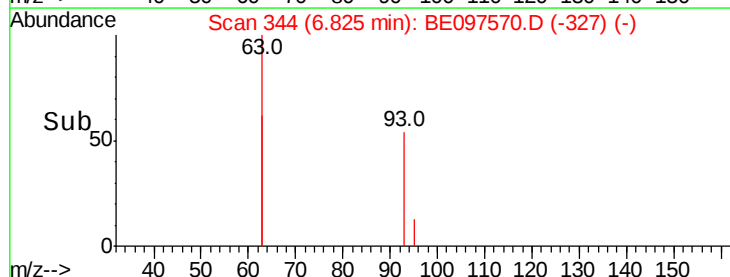
1000

500

0

6.80 6.82 6.84 6.86 6.88 6.90 6.92 6.94 6.96 6.98 7.00

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.13 min Scan# 612

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

Tot Ion:136 Resp: 4836

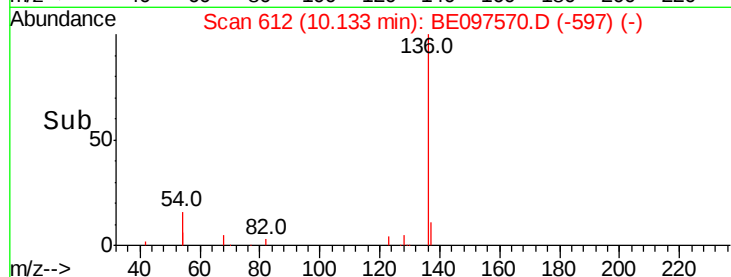
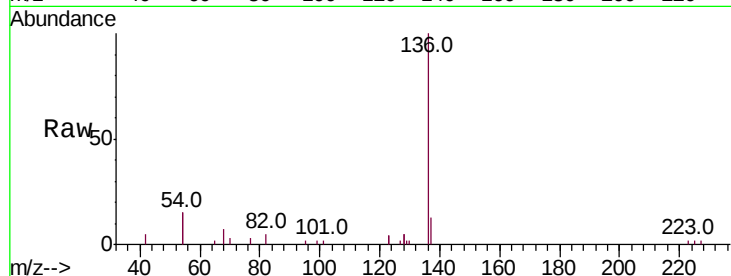
Ion Ratio Lower Upper

136 100

137 12.6 9.5 14.3

54 30.8 29.1 43.7

68 6.5 6.2 9.2

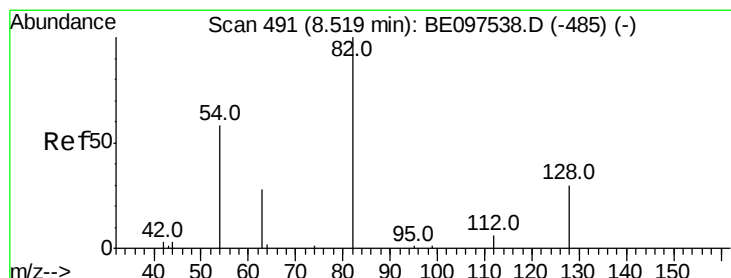
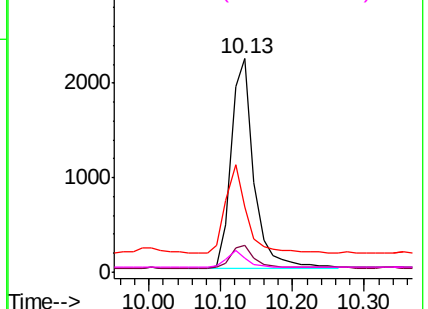


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.387 ng

RT: 8.53 min Scan# 492

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

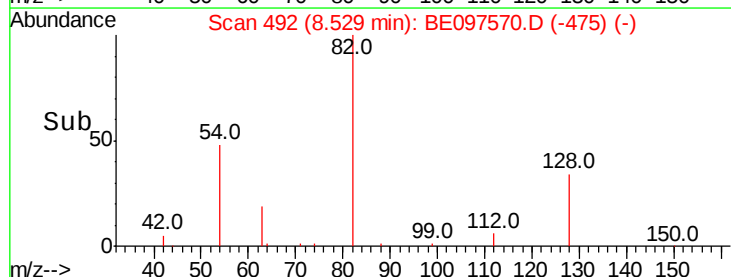
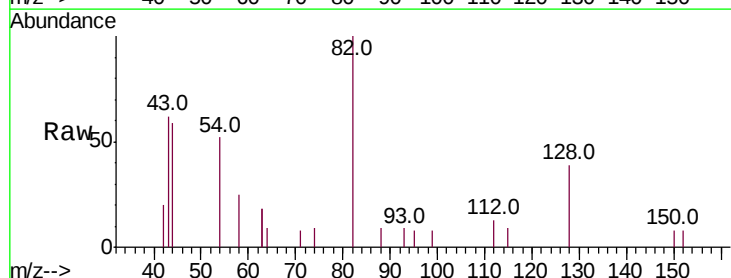
Tgt Ion: 82 Resp: 1447

Ion Ratio Lower Upper

82 100

128 39.5 24.0 36.0#

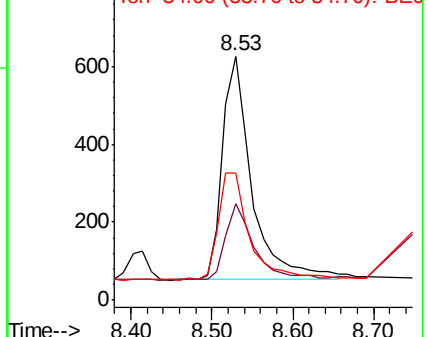
54 51.9 40.0 60.0



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: 0.415 ng

RT: 10.17 min Scan# 615

Delta R.T. 0.00 min

Lab File: BE097570.D

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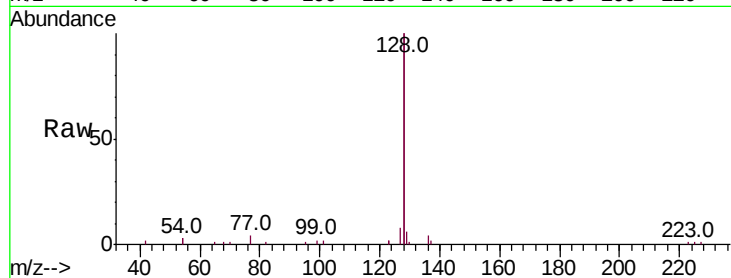
Tot Ion:128 Resp: 18088

Ion Ratio Lower Upper

128 100

129 3.2 2.6 3.8

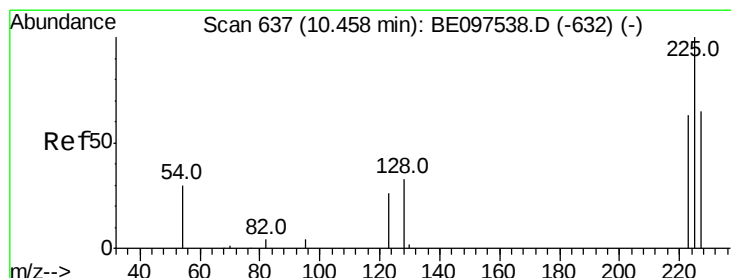
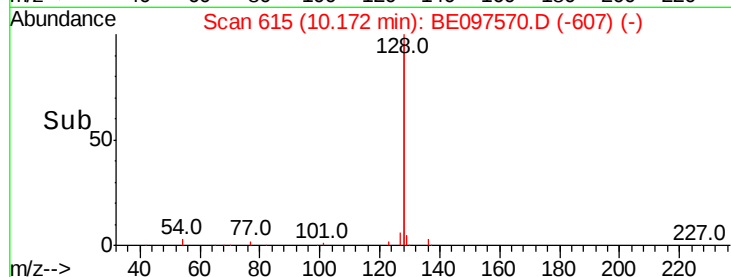
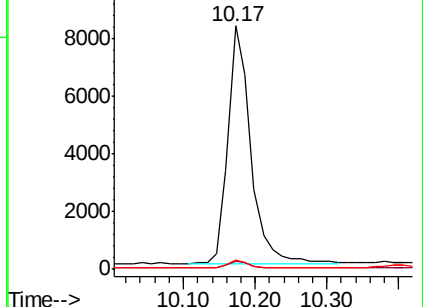
127 3.8 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.373 ng

RT: 10.46 min Scan# 637

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

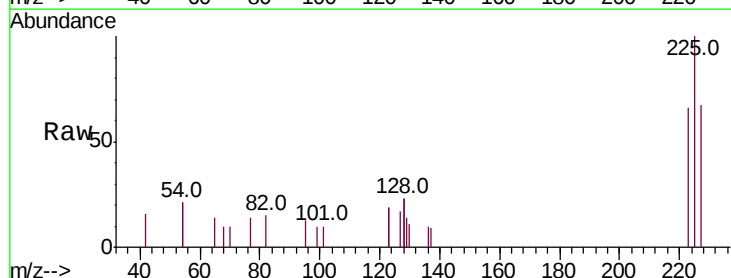
Tgt Ion:225 Resp: 748

Ion Ratio Lower Upper

225 100

223 62.8 53.0 79.6

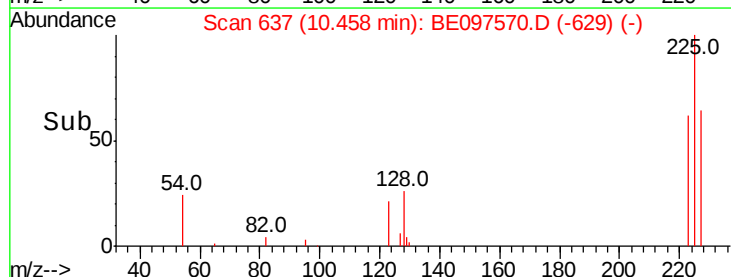
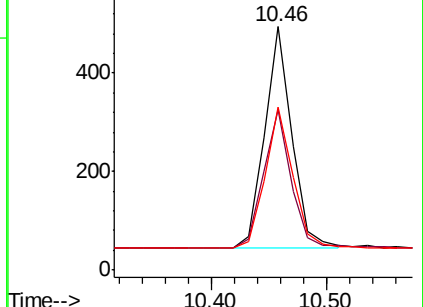
227 64.6 51.4 77.2

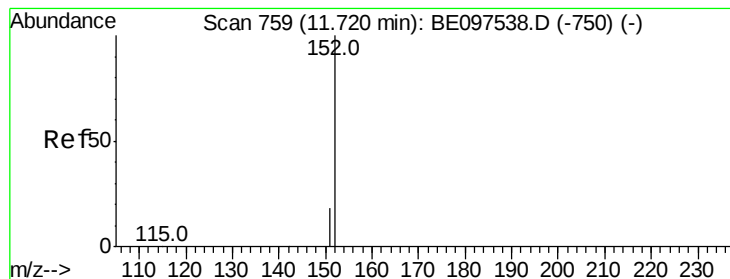


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.552 ng

RT: 11.72 min Scan# 758

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

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ClientSampleId :

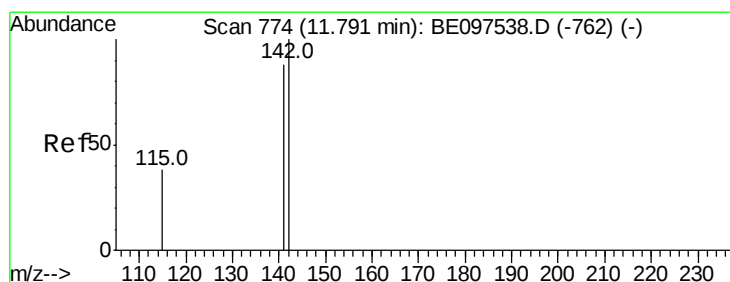
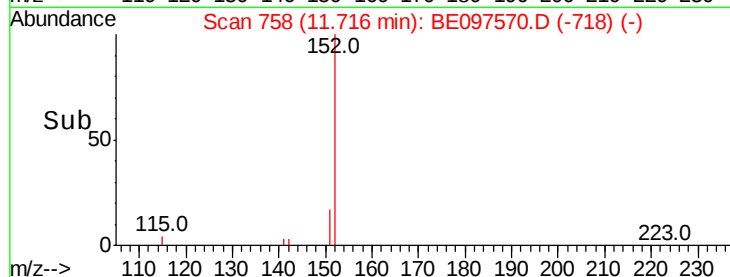
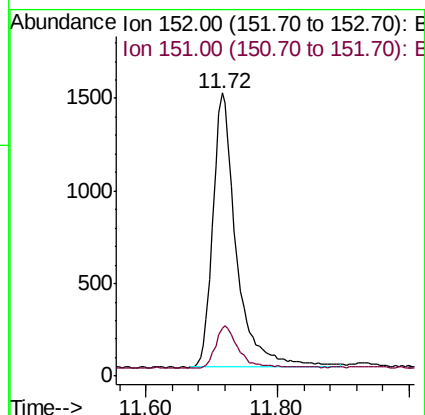
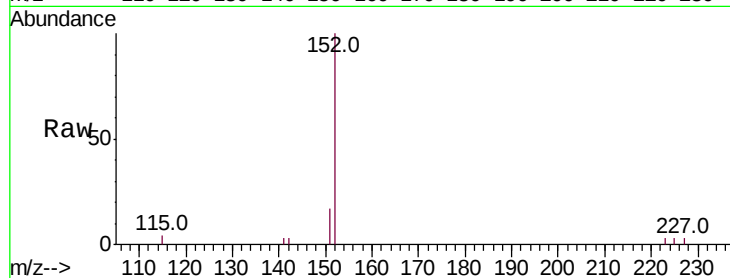
PB112778BSD

Tot Ion:152 Resp: 3680

Ion Ratio Lower Upper

152 100

151 14.4 15.4 23.0#



#12

2-Methylnaphthalene

Concen: 0.400 ng

RT: 11.80 min Scan# 775

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

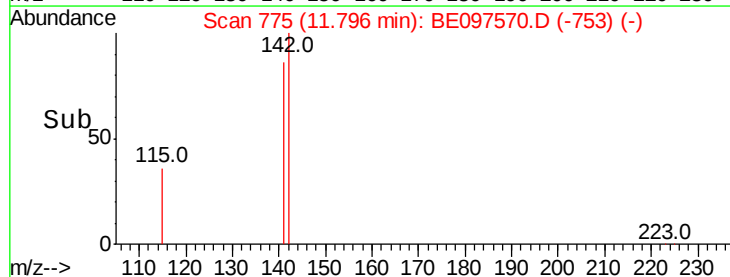
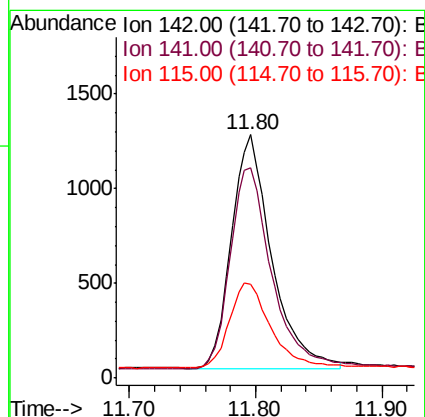
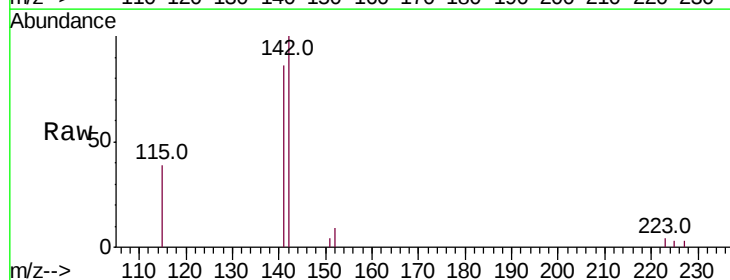
Tgt Ion:142 Resp: 2718

Ion Ratio Lower Upper

142 100

141 86.2 70.4 105.6

115 38.6 31.7 47.5

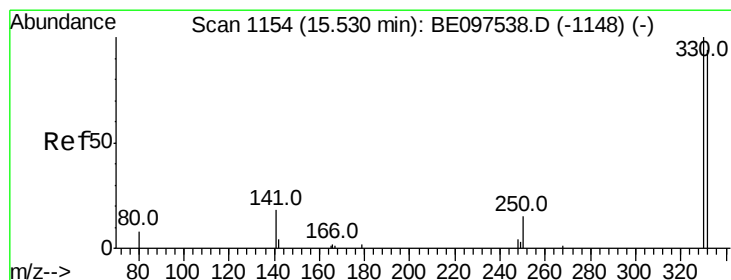
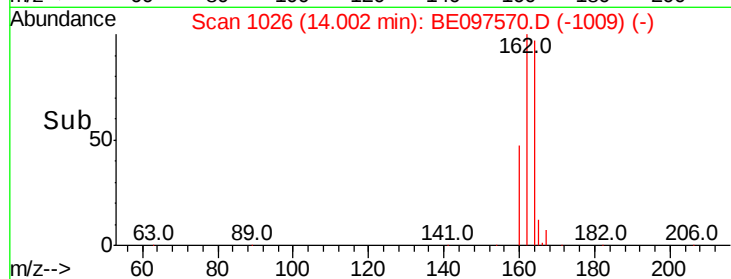
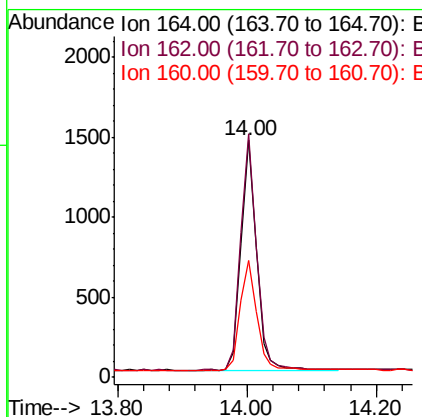
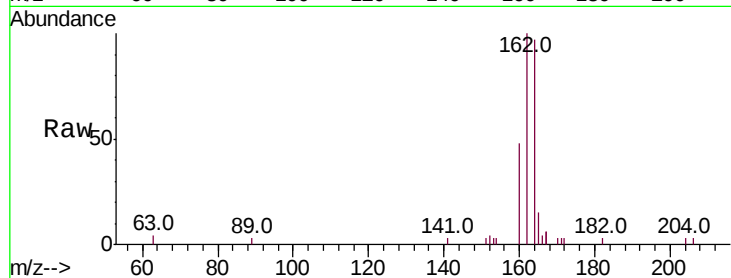




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.00 min Scan# 1026  
 Delta R.T. -0.00 min  
 Lab File: BE097570.D  
 Acq: 20 Sep 2018 10:13

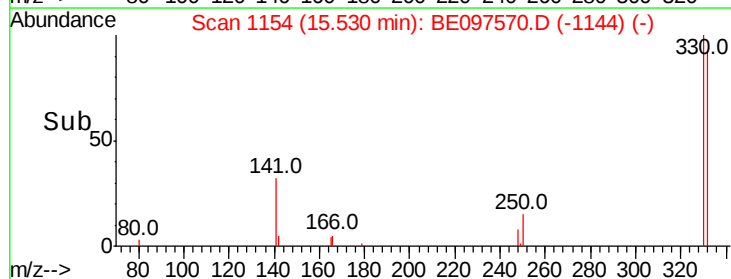
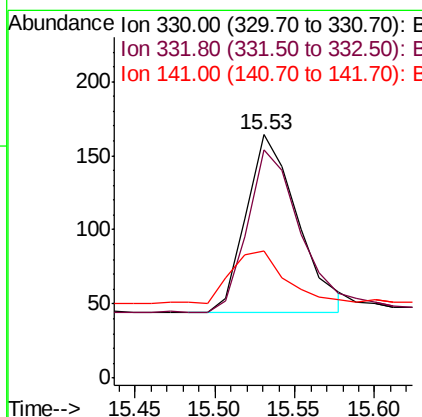
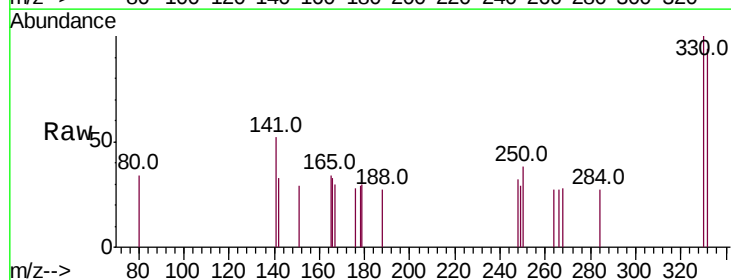
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112778BSD

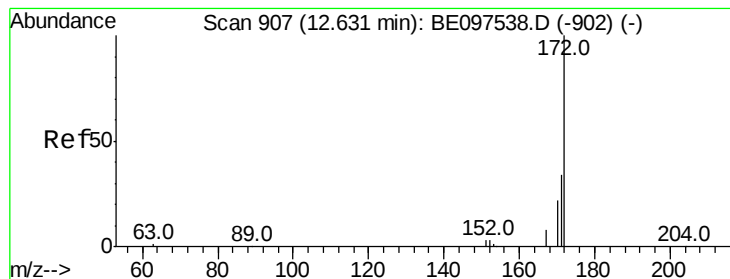
Tot Ion:164 Resp: 2356  
 Ion Ratio Lower Upper  
 164 100  
 162 102.8 83.1 124.7  
 160 49.6 37.1 55.7



#14  
 2,4,6-Tribromophenol  
 Concen: 0.331 ng  
 RT: 15.53 min Scan# 1154  
 Delta R.T. 0.01 min  
 Lab File: BE097570.D  
 Acq: 20 Sep 2018 10:13

Tgt Ion:330 Resp: 270  
 Ion Ratio Lower Upper  
 330 100  
 332 93.0 152.7 229.1#  
 141 32.2 33.7 50.5#





#15

2-Fluorobiphenyl

Concen: 0.468 ng

RT: 12.62 min Scan# 906

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

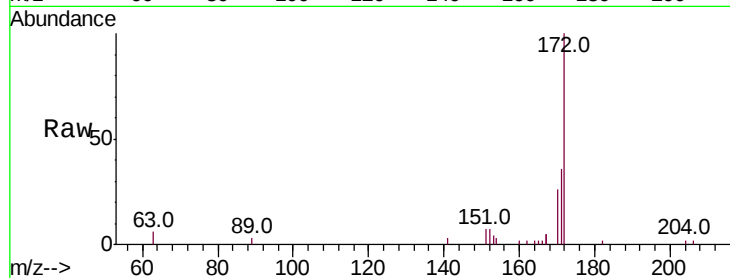
Tot Ion:172 Resp: 3895

Ion Ratio Lower Upper

172 100

171 36.5 29.9 44.9

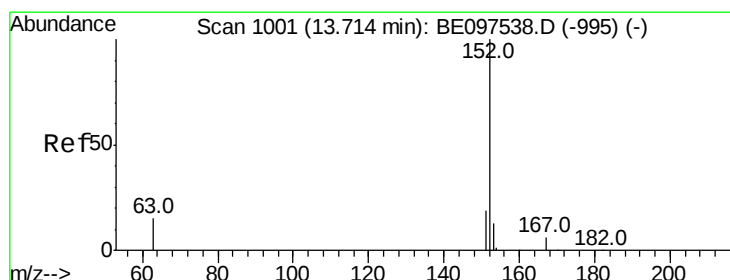
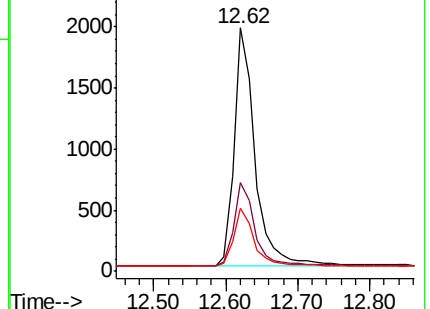
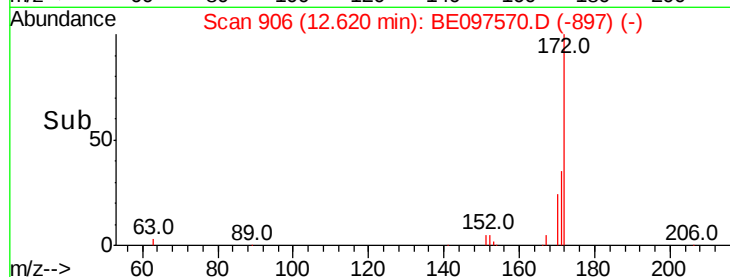
170 25.7 21.8 32.8



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: 0.389 ng

RT: 13.71 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

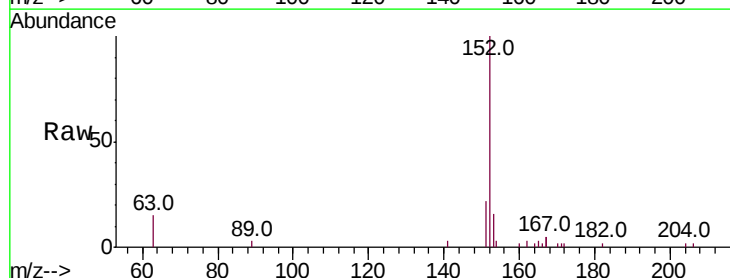
Tgt Ion:152 Resp: 3624

Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

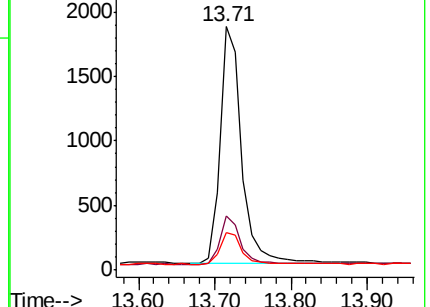
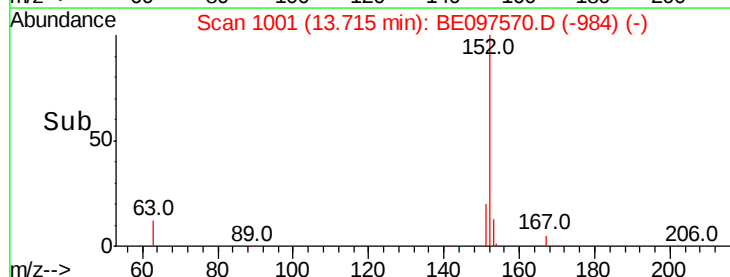
153 13.6 10.5 15.7



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: 0.390 ng

RT: 14.06 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

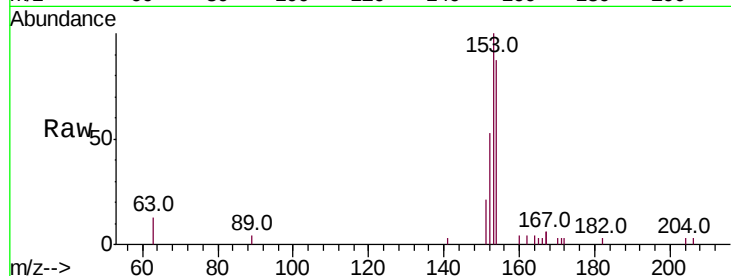
Tot Ion:154 Resp: 2435

Ion Ratio Lower Upper

154 100

153 113.6 89.2 133.8

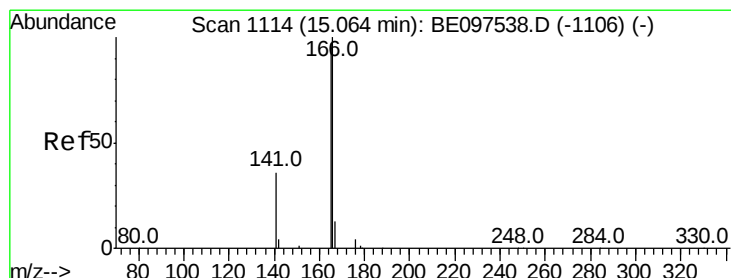
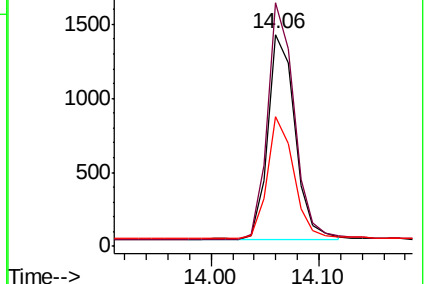
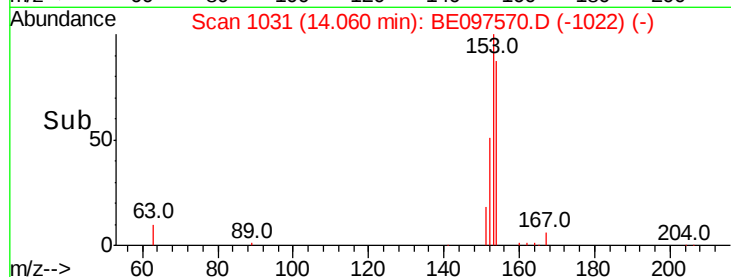
152 58.3 42.0 63.0



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: 0.378 ng

RT: 15.06 min Scan# 1114

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

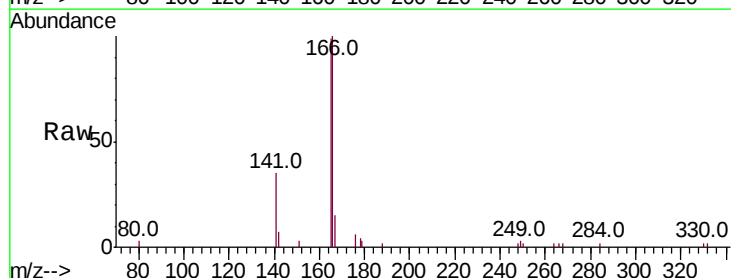
Tgt Ion:166 Resp: 3073

Ion Ratio Lower Upper

166 100

165 99.7 77.8 116.6

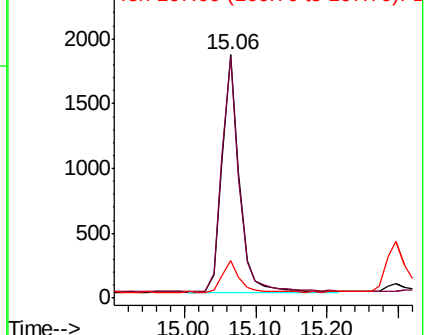
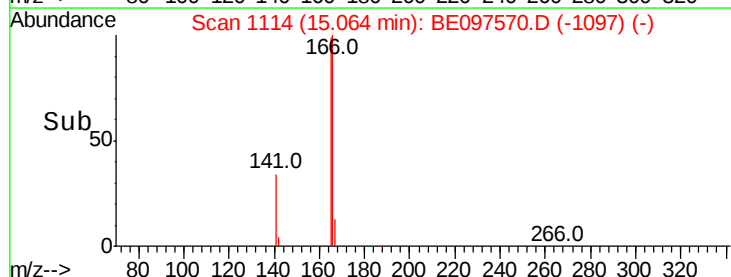
167 13.1 42.4 63.6#



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: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

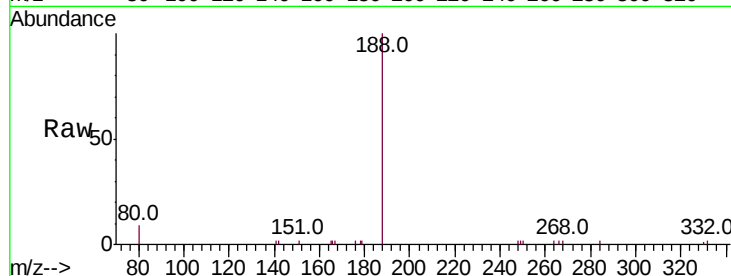
Tot Ion:188 Resp: 5498

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

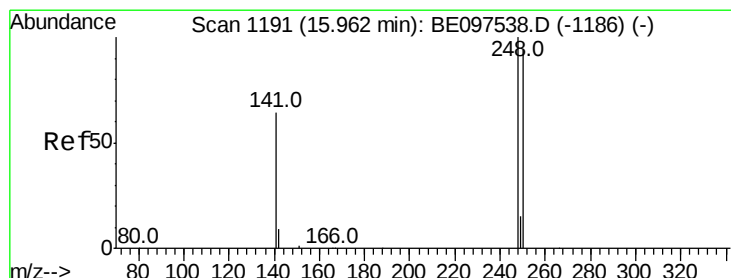
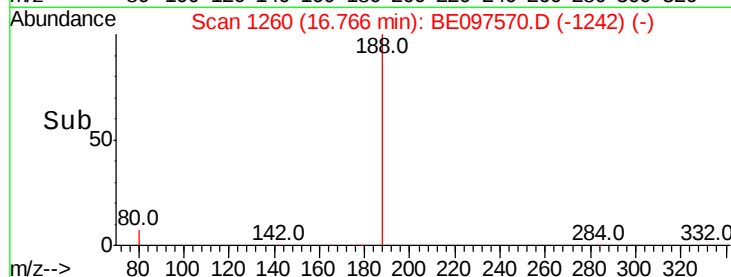
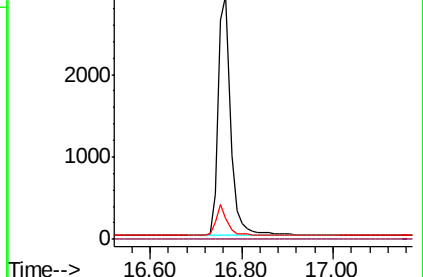
80 8.5 3.6 5.4#



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: 0.378 ng

RT: 15.96 min Scan# 1191

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

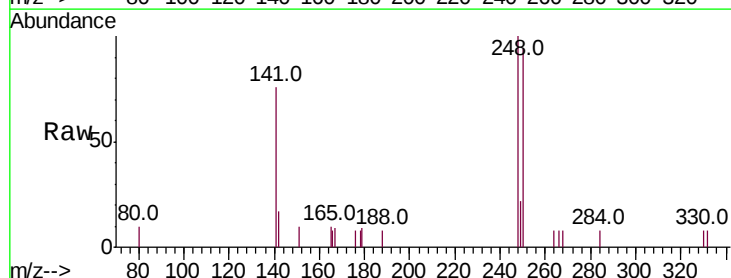
Tgt Ion:248 Resp: 938

Ion Ratio Lower Upper

248 100

250 94.2 62.7 94.1#

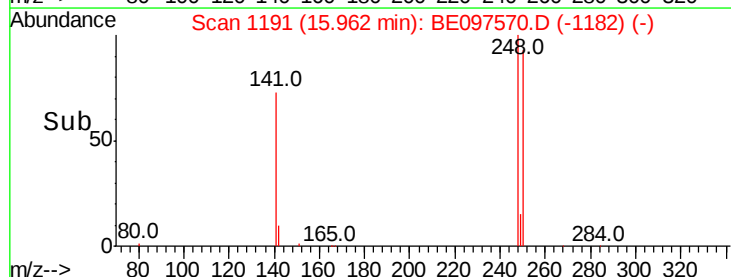
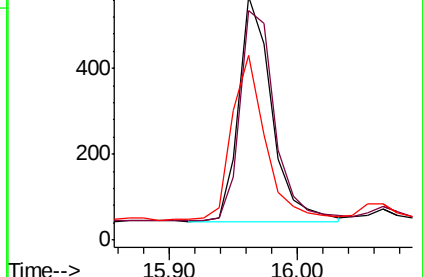
141 75.8 48.2 72.2#

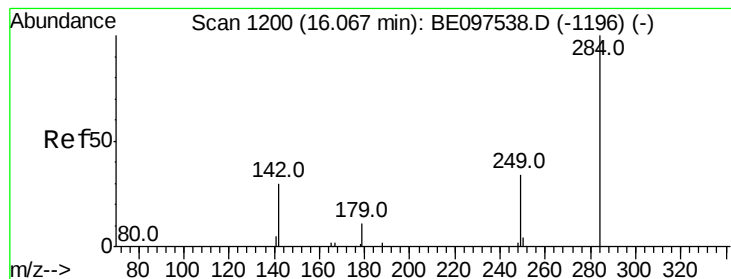


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.417 ng

RT: 16.07 min Scan# 1200

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

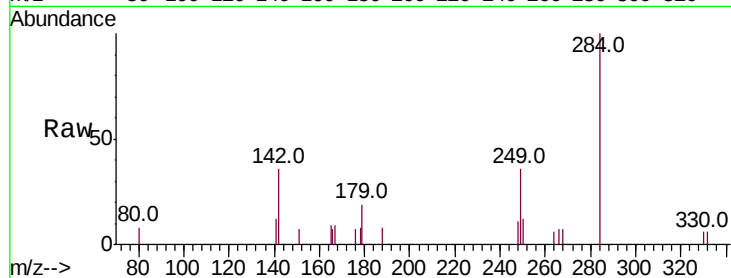
Tot Ion:284 Resp: 1136

Ion Ratio Lower Upper

284 100

142 29.8 22.1 33.1

249 28.5 34.8 52.2#



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

16.07

800

600

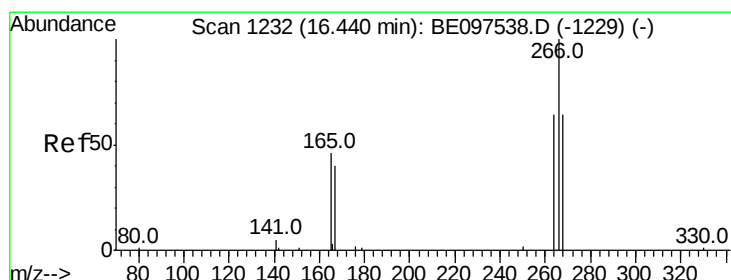
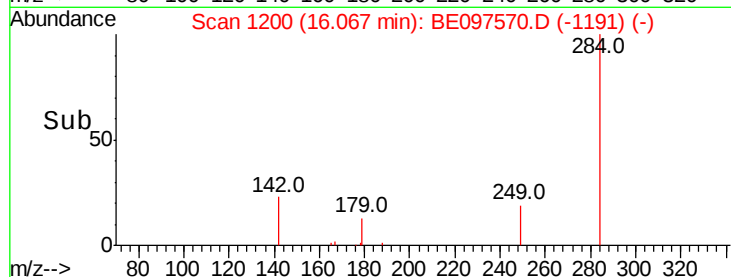
400

200

0

16.00 16.10

Time-->



#22

Pentachlorophenol

Concen: 0.498 ng

RT: 16.45 min Scan# 1233

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

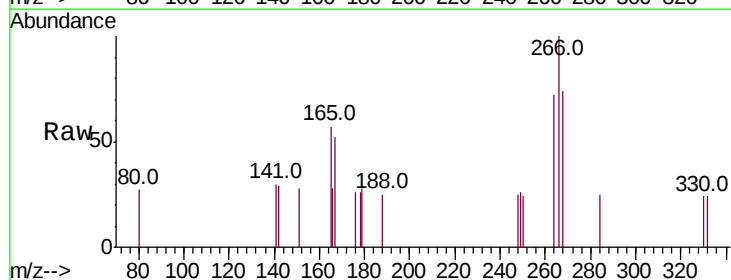
Tgt Ion:266 Resp: 450

Ion Ratio Lower Upper

266 100

264 71.9 72.5 108.7#

268 73.5 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

250

200

150

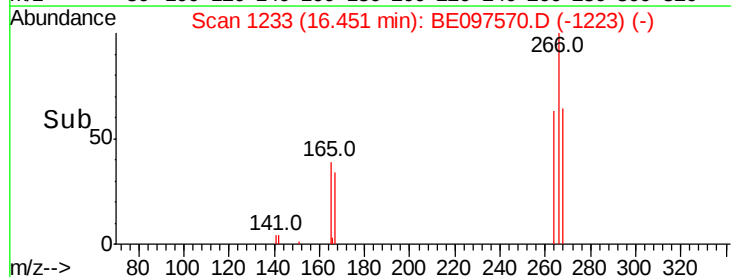
100

50

0

16.30 16.40 16.50 16.60

Time-->





#23

Phenanthrene

Concen: 0.391 ng

RT: 16.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

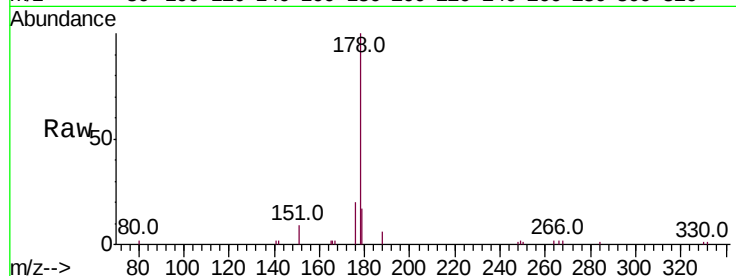
Tot Ion:178 Resp: 5103

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

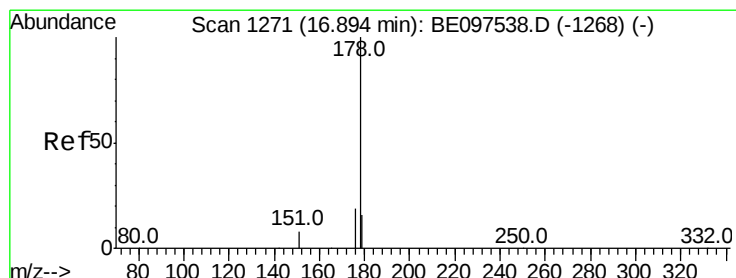
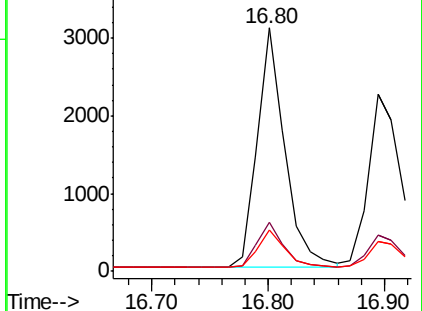
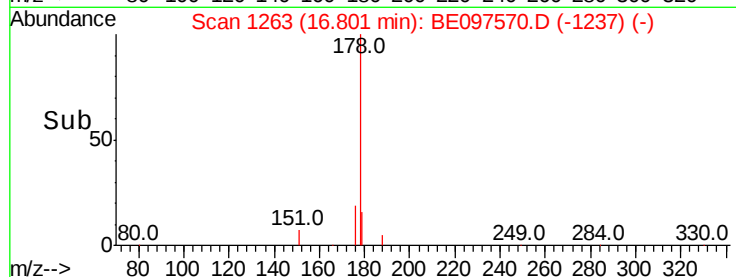
179 15.6 11.8 17.6



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: 0.384 ng

RT: 16.89 min Scan# 1271

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

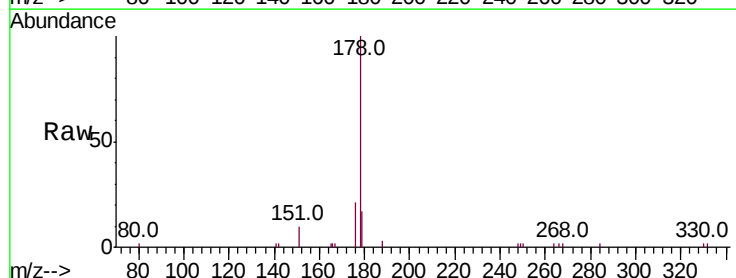
Tgt Ion:178 Resp: 4429

Ion Ratio Lower Upper

178 100

176 18.6 12.8 19.2

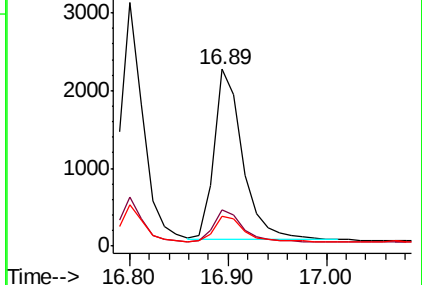
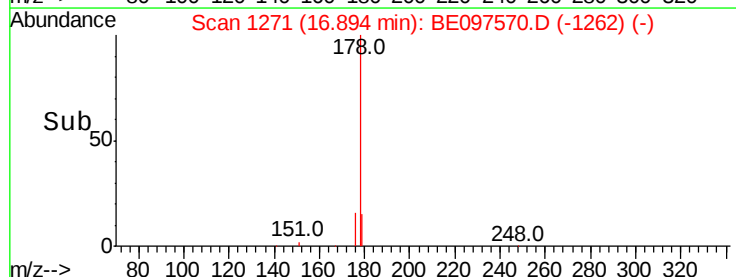
179 15.0 13.0 19.6



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: 0.381 ng

RT: 18.80 min Scan# 1500

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

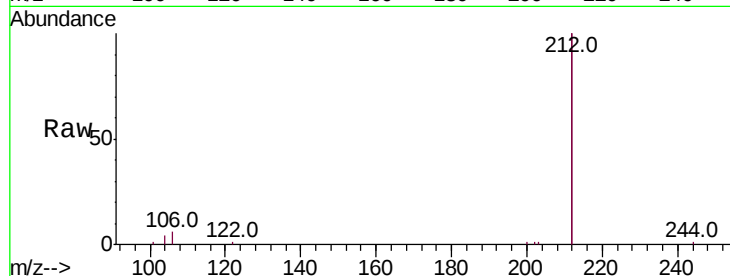
Tot Ion:212 Resp: 26827

Ion Ratio Lower Upper

212 100

106 3.0 2.8 4.2

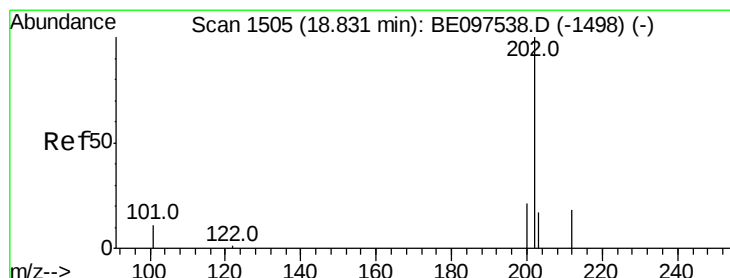
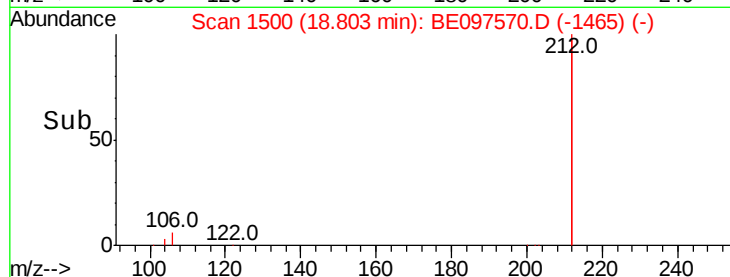
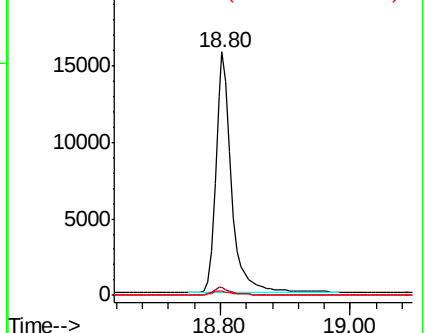
104 1.7 1.6 2.4



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: 0.356 ng

RT: 18.83 min Scan# 1505

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

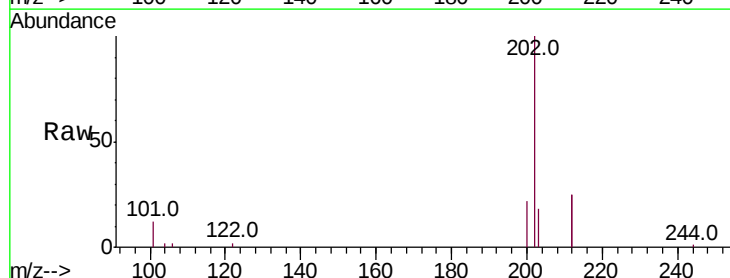
Tgt Ion:202 Resp: 6439

Ion Ratio Lower Upper

202 100

101 11.2 9.8 14.8

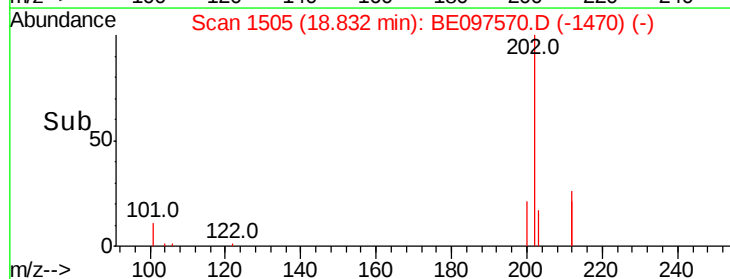
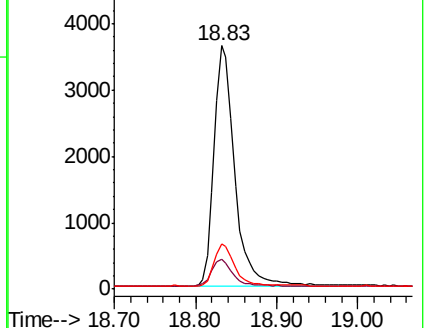
203 17.0 13.7 20.5



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

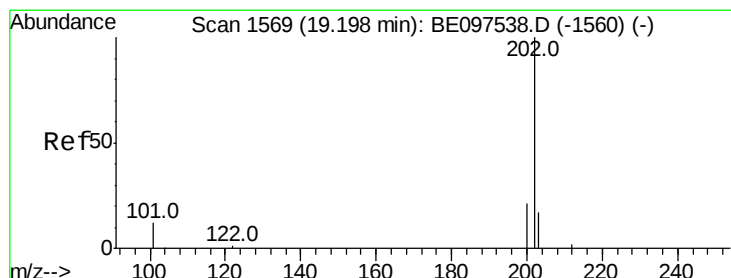
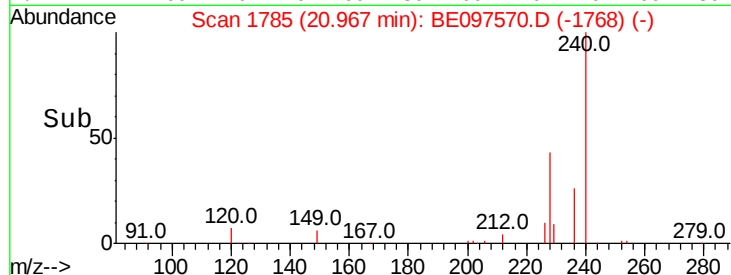
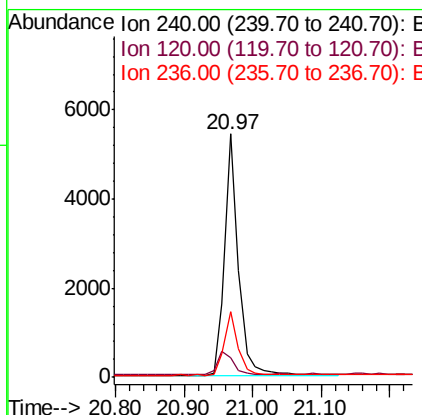
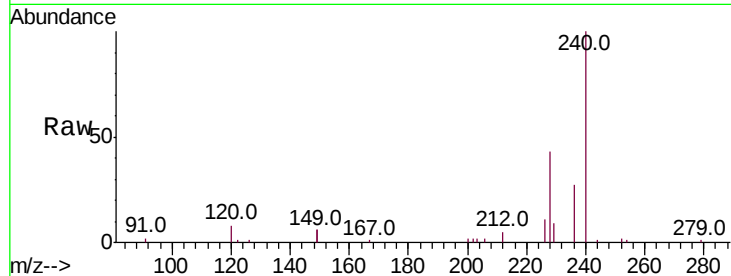




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 20.97 min Scan# 1785  
 Delta R.T. 0.00 min  
 Lab File: BE097570.D  
 Acq: 20 Sep 2018 10:13

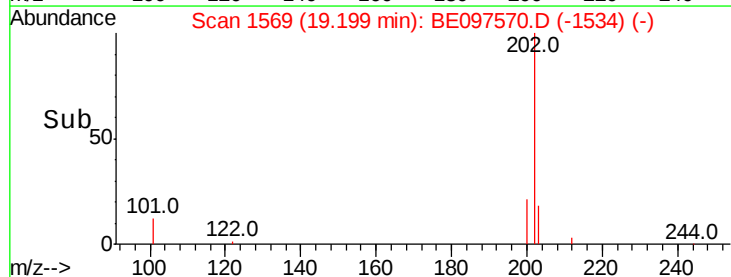
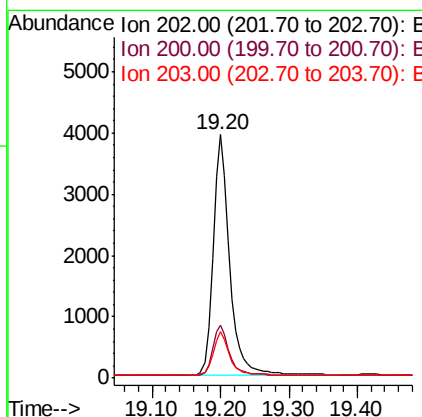
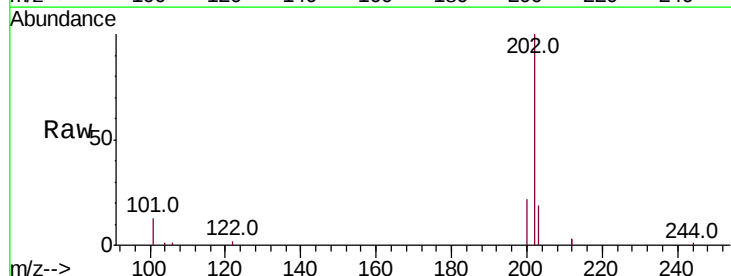
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB112778BSD

Tot Ion:240 Resp: 7564  
 Ion Ratio Lower Upper  
 240 100  
 120 7.9 5.5 8.3  
 236 27.0 20.7 31.1



#28  
 Pyrene  
 Concen: 0.382 ng  
 RT: 19.20 min Scan# 1569  
 Delta R.T. -0.00 min  
 Lab File: BE097570.D  
 Acq: 20 Sep 2018 10:13

Tgt Ion:202 Resp: 6570  
 Ion Ratio Lower Upper  
 202 100  
 200 20.9 16.6 25.0  
 203 17.6 13.8 20.8





#29

Terphenyl-d14

Concen: 0.354 ng

RT: 19.42 min Scan# 1608

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

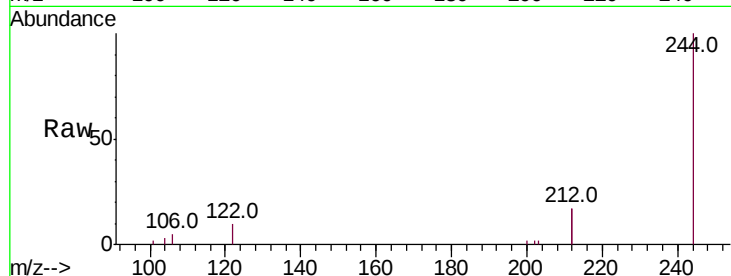
Tot Ion:244 Resp: 4895

Ion Ratio Lower Upper

244 100

212 33.9 25.4 38.0

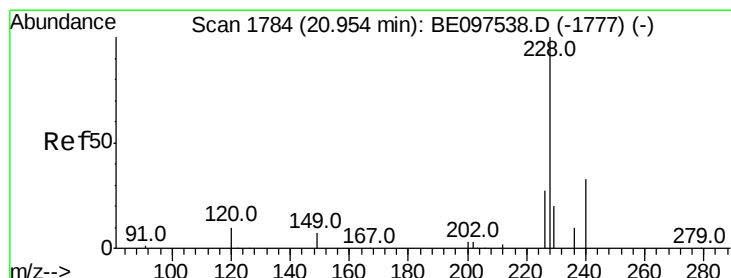
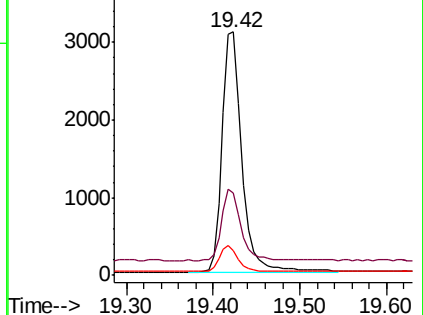
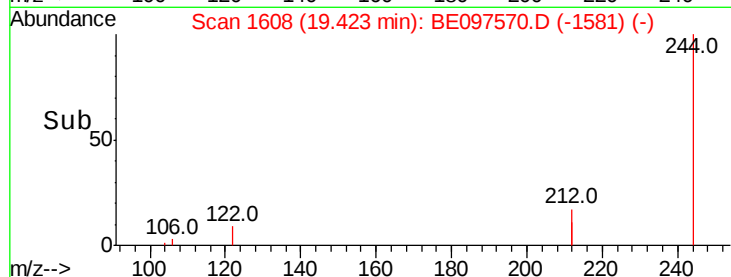
122 10.1 8.1 12.1



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: 0.401 ng

RT: 20.95 min Scan# 1784

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

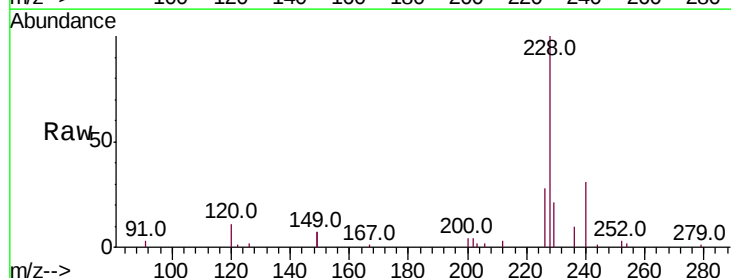
Tgt Ion:228 Resp: 7638

Ion Ratio Lower Upper

228 100

226 27.6 24.0 36.0

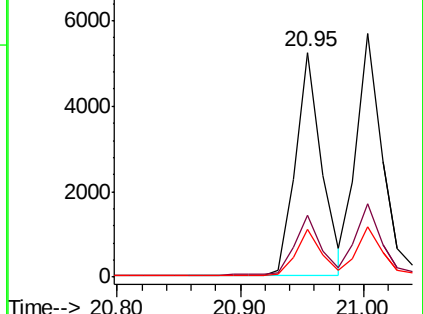
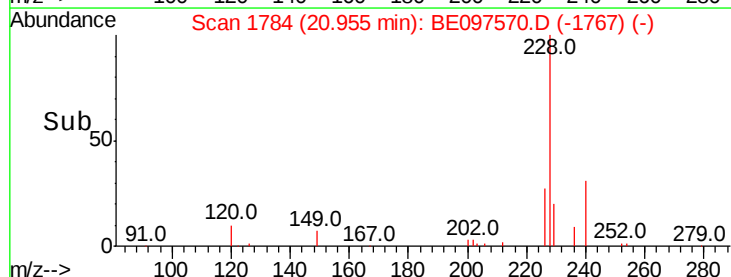
229 21.2 16.0 24.0



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: 0.400 ng

RT: 21.00 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

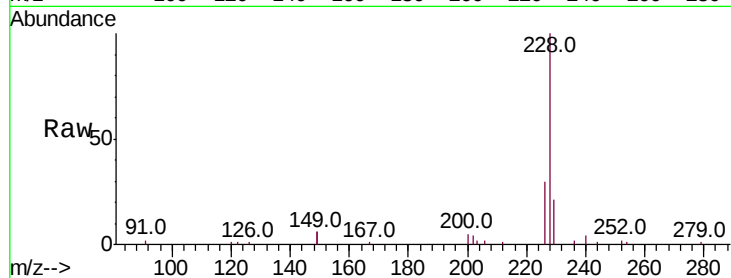
Tot Ion:228 Resp: 8177

Ion Ratio Lower Upper

228 100

226 30.2 24.0 36.0

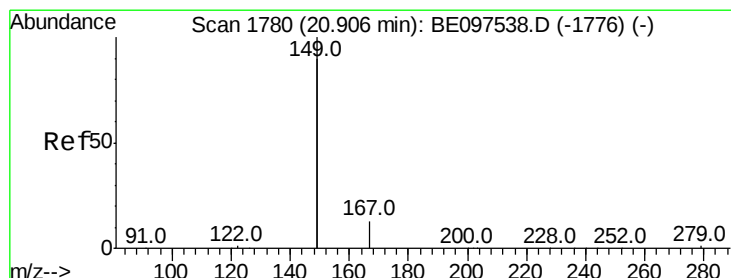
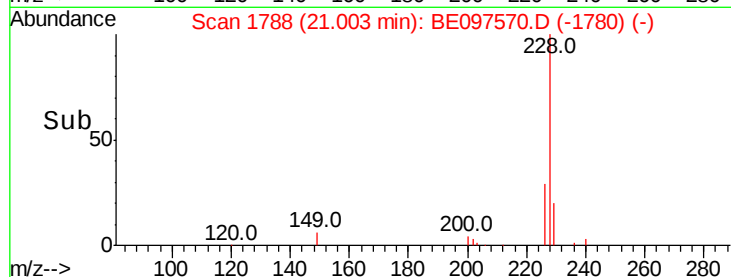
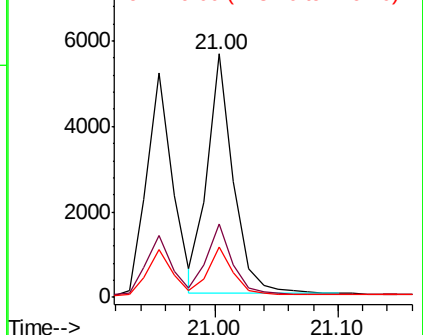
229 20.6 16.0 24.0



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: 0.314 ng

RT: 20.91 min Scan# 1780

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

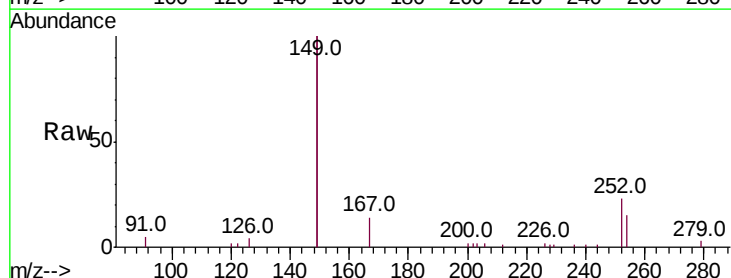
Tgt Ion:149 Resp: 9706

Ion Ratio Lower Upper

149 100

167 6.3 5.4 8.0

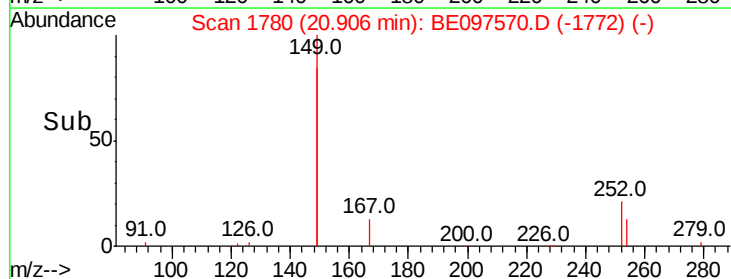
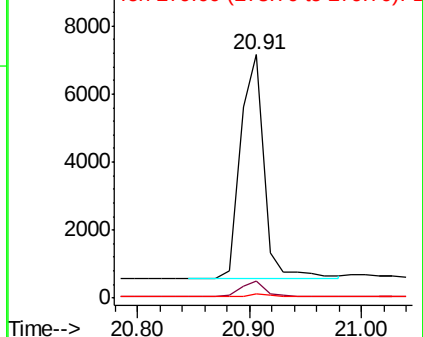
279 1.1 0.7 1.1

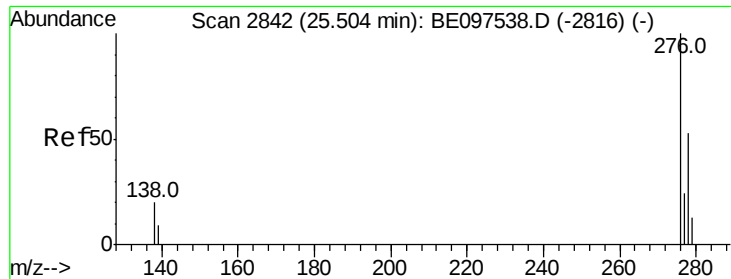


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.405 ng

RT: 25.51 min Scan# 2844

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

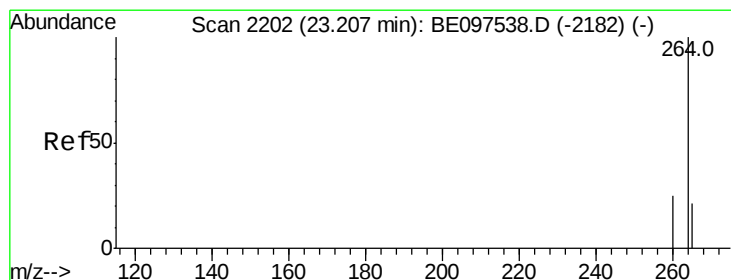
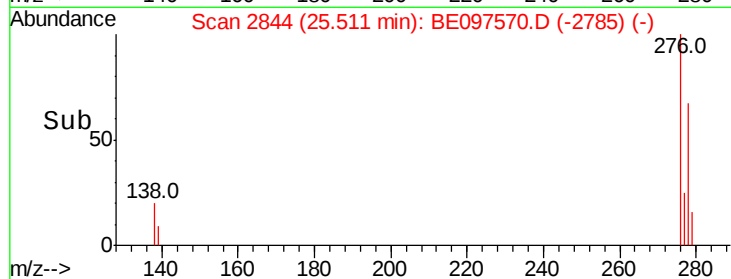
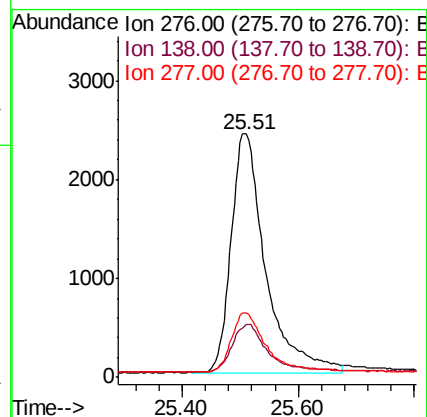
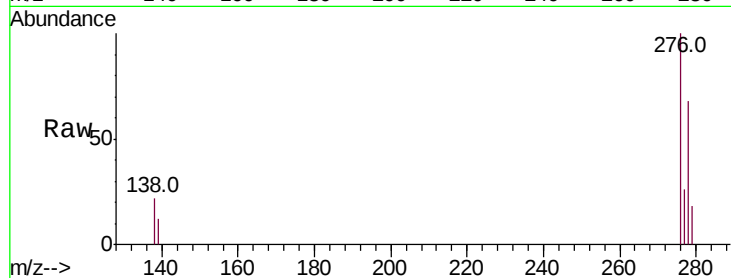
Tot Ion:276 Resp: 9959

Ion Ratio Lower Upper

276 100

138 19.8 22.5 33.7#

277 24.7 19.9 29.9



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.21 min Scan# 2202

Delta R.T. 0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

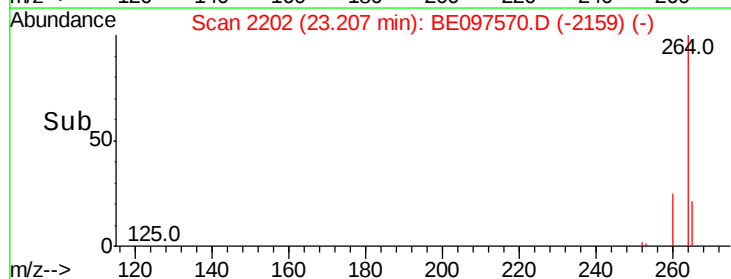
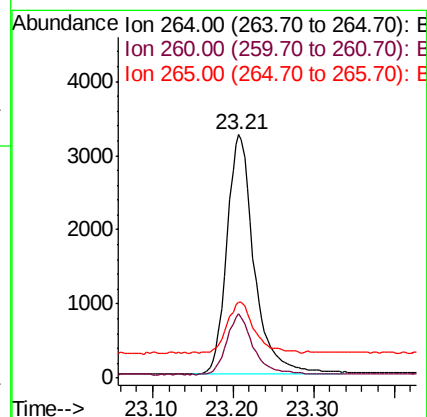
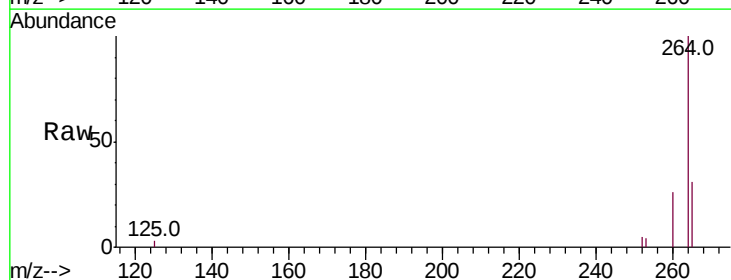
Tgt Ion:264 Resp: 7645

Ion Ratio Lower Upper

264 100

260 26.4 20.5 30.7

265 31.1 22.8 34.2

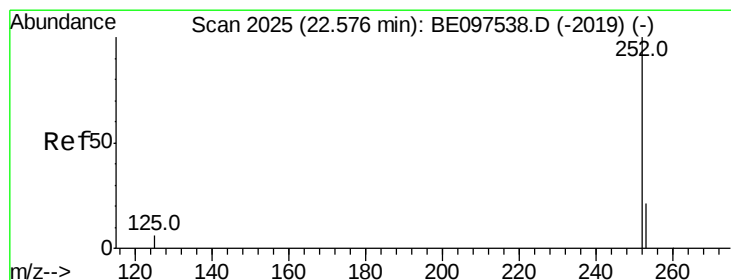
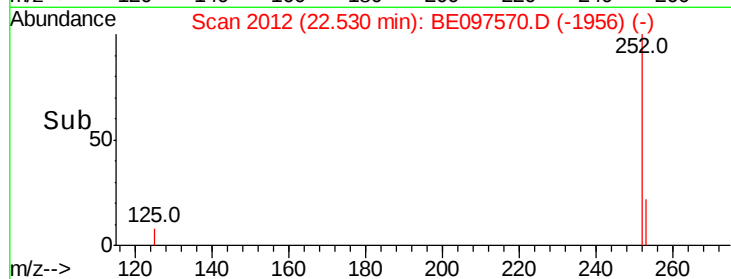
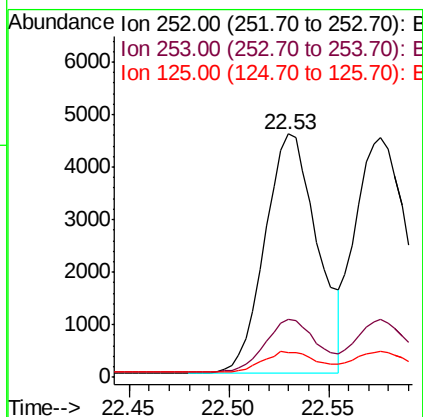
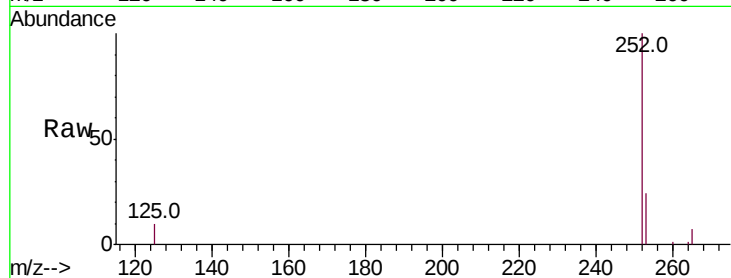




#35  
Benzo(b)fluoranthene  
Concen: 0.423 ng  
RT: 22.53 min Scan# 2012  
Delta R.T. -0.00 min  
Lab File: BE097570.D  
Acq: 20 Sep 2018 10:13

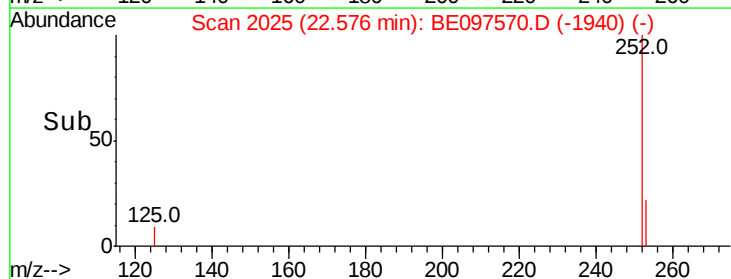
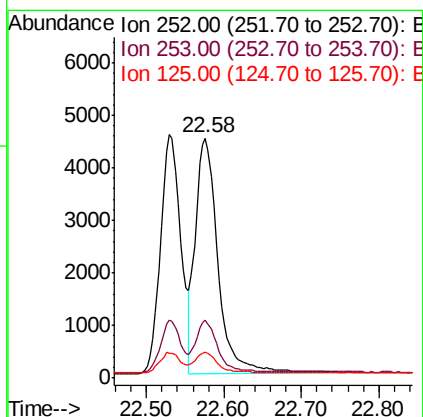
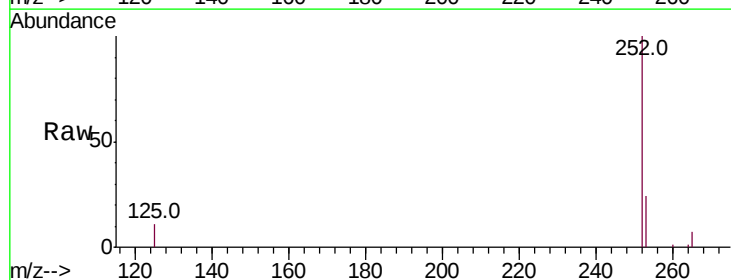
Instrument :  
BNA\_E  
ClientSampleId :  
PB112778BSD

Tot Ion:252 Resp: 8291  
Ion Ratio Lower Upper  
252 100  
253 23.7 20.0 30.0  
125 10.4 16.0 24.0#



#36  
Benzo(k)fluoranthene  
Concen: 0.404 ng  
RT: 22.58 min Scan# 2025  
Delta R.T. 0.00 min  
Lab File: BE097570.D  
Acq: 20 Sep 2018 10:13

Tgt Ion:252 Resp: 9036  
Ion Ratio Lower Upper  
252 100  
253 24.0 16.0 24.0  
125 11.1 8.0 12.0





#37

Benzo(a)pyrene

Concen: 0.421 ng

RT: 23.11 min Scan# 2174

Delta R.T. -0.00 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

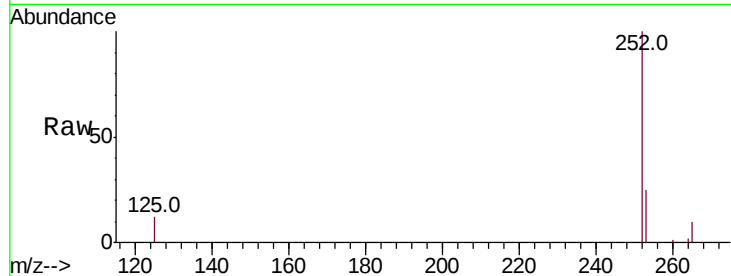
Tot Ion:252 Resp: 8020

Ion Ratio Lower Upper

252 100

253 24.9 16.0 24.0#

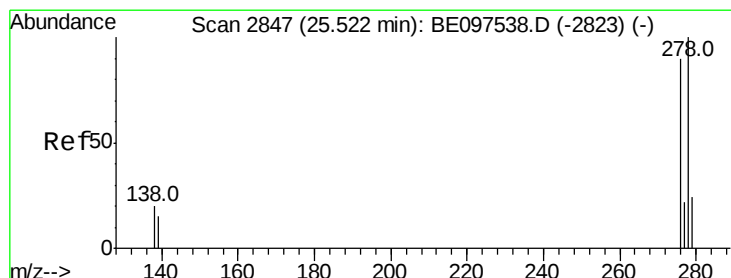
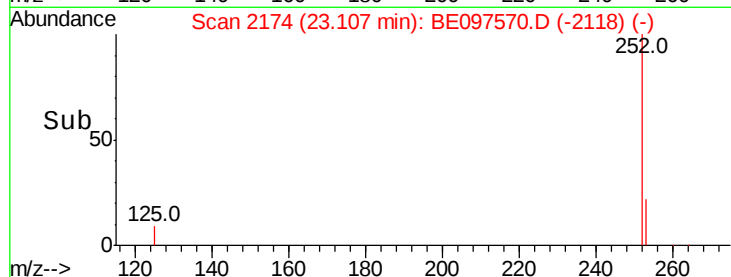
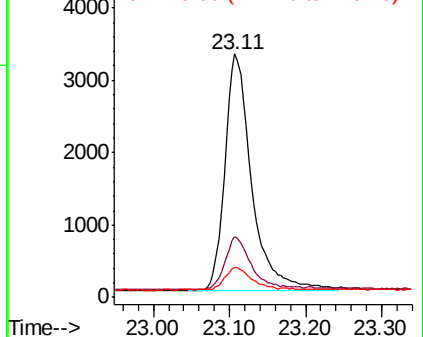
125 12.3 12.0 18.0



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: 0.406 ng

RT: 25.53 min Scan# 2848

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

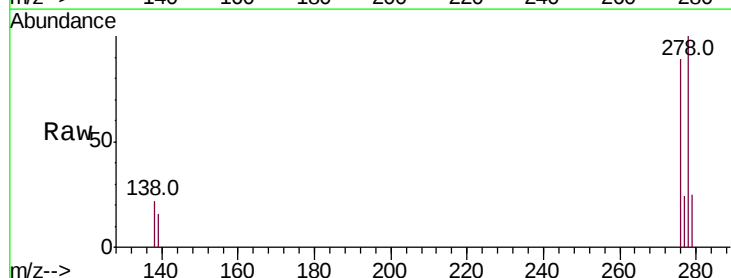
Tgt Ion:278 Resp: 8347

Ion Ratio Lower Upper

278 100

139 16.4 16.0 24.0

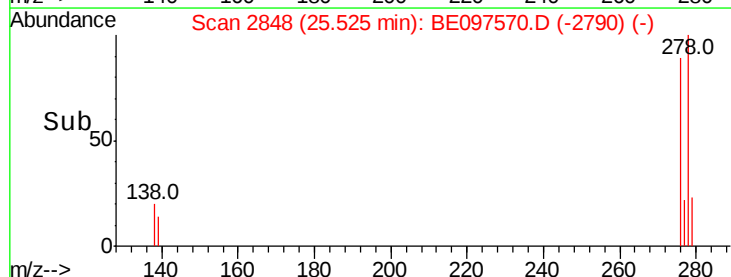
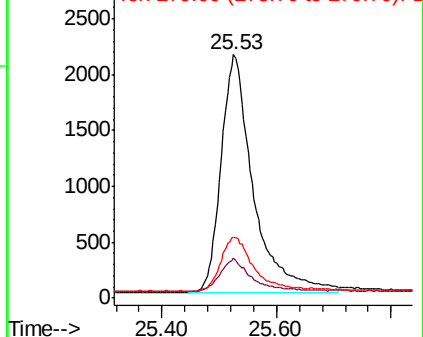
279 25.0 20.0 30.0



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: 0.422 ng

RT: 26.21 min Scan# 3039

Delta R.T. 0.01 min

Lab File: BE097570.D

Acq: 20 Sep 2018 10:13

Instrument :

BNA\_E

ClientSampleId :

PB112778BSD

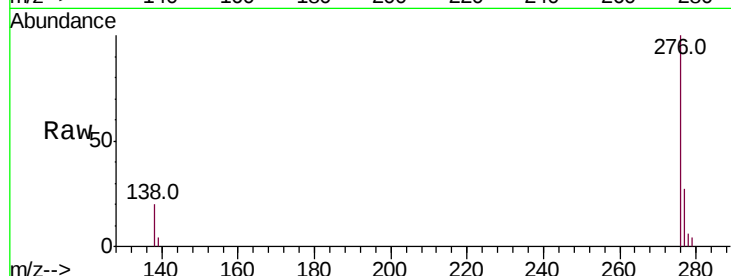
Tot Ion:276 Resp: 8426

Ion Ratio Lower Upper

276 100

277 26.6 16.0 24.0#

138 19.5 20.0 30.0#



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

