

Data File : BE098090.D  
Acq On : 26 Oct 2018 16:02  
Operator : SJ/JU  
Sample : J5598-05DL 5X  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C0AE8DL

Quant Time: Oct 26 23:20:53 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE102518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 26 23:15:36 2018  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.89  | 152  | 1003     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.69 | 136  | 5059     | 0.40 | ng/ul | 0.01     |
| 6) Acenaphthene-d10       | 14.54 | 164  | 3529     | 0.40 | ng/ul | 0.01     |
| 10) Phenanthrene-d10      | 17.30 | 188  | 8362     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.47 | 240  | 11351    | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 24.03 | 264  | 9856     | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152 | 372  | 0.04 | ng/ul | 0.01 |
| 14) Fluoranthene-d10        | 19.32 | 212 | 1095 | 0.04 | ng/ul | 0.00 |

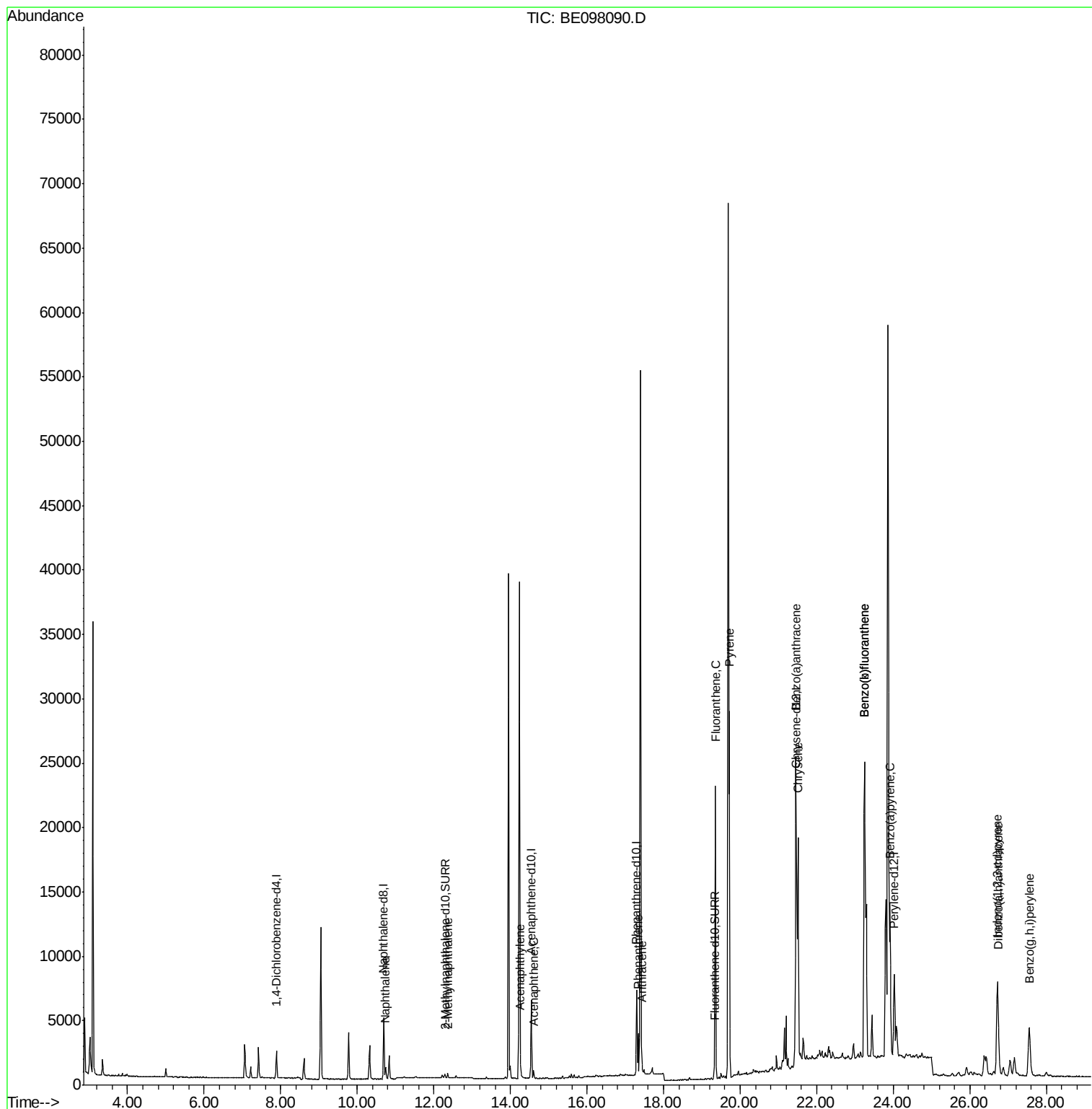
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 10.74 | 128  | 1347     | 0.111 | ng/ul# | 92     |
| 5) 2-Methylnaphthalene     | 12.36 | 142  | 278      | 0.030 | ng/ul  | 95     |
| 7) Acenaphthylene          | 14.27 | 152  | 1084     | 0.078 | ng/ul# | 89     |
| 8) Acenaphthene            | 14.61 | 153  | 358      | 0.034 | ng/ul# | 88     |
| 12) Phenanthrene           | 17.34 | 178  | 3274     | 0.170 | ng/ul  | 95     |
| 13) Anthracene             | 17.43 | 178  | 1786     | 0.094 | ng/ul# | 86     |
| 15) Fluoranthene           | 19.36 | 202  | 26831    | 1.090 | ng/ul  | 99     |
| 17) Pyrene                 | 19.72 | 202  | 32477    | 1.225 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.46 | 228  | 23213    | 0.696 | ng/ul  | 97     |
| 19) Chrysene               | 21.52 | 228  | 19875    | 0.770 | ng/ul  | 98     |
| 21) Benzo(b)fluoranthene   | 23.25 | 252  | 58611    | 2.146 | ng/ul  | 98     |
| 22) Benzo(k)fluoranthene   | 23.25 | 252  | 58611    | 2.193 | ng/ul  | 98     |
| 23) Benzo(a)pyrene         | 23.91 | 252  | 18212    | 0.693 | ng/ul  | 99     |
| 24) Indeno(1,2,3-cd)pyrene | 26.72 | 276  | 14800    | 0.492 | ng/ul# | 95     |
| 25) Dibenzo(a,h)anthracene | 26.74 | 278  | 4067     | 0.162 | ng/ul# | 86     |
| 26) Benzo(g,h,i)perylene   | 27.55 | 276  | 10363    | 0.409 | ng/ul  | 96     |

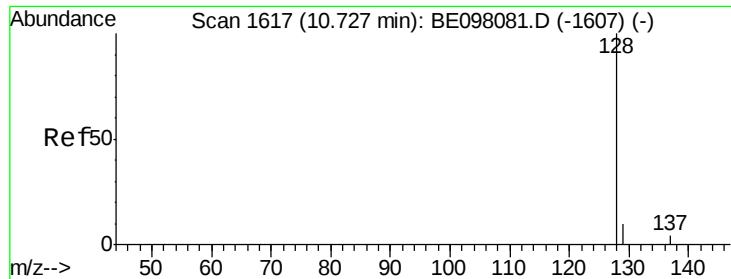
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.111 ng/ul

RT: 10.74 min Scan# 1621

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

C0AE8DL

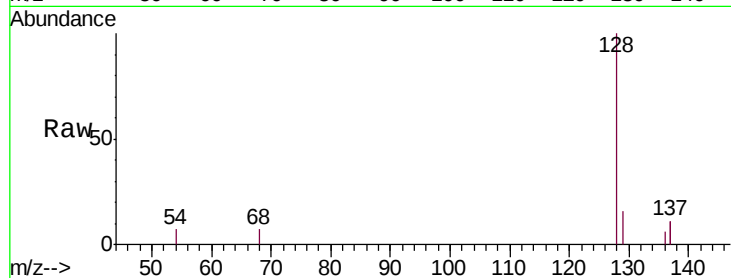
Tgt Ion:128 Resp: 1347

Ion Ratio Lower Upper

128 100

129 16.4 10.5 15.7#

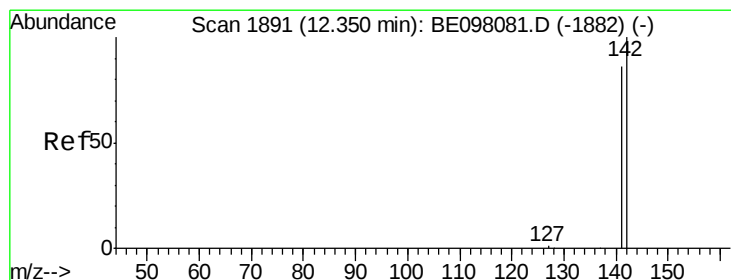
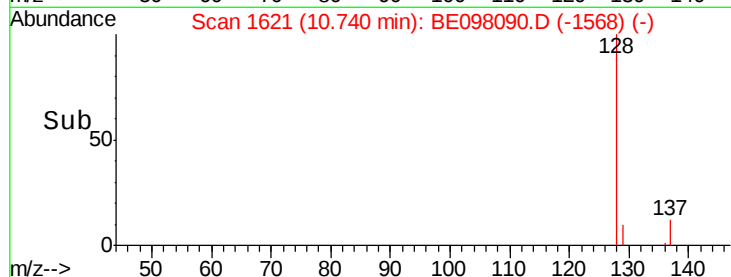
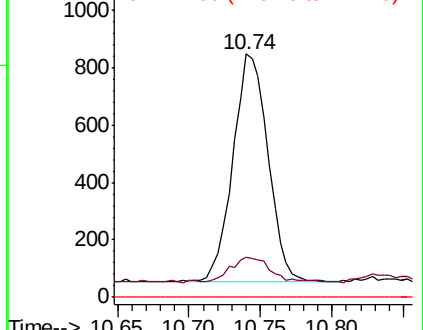
127 0.0 0.0 0.0



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



#5

2-Methylnaphthalene

Concen: 0.030 ng/ul

RT: 12.36 min Scan# 1893

Delta R.T. 0.01 min

Lab File: BE098090.D

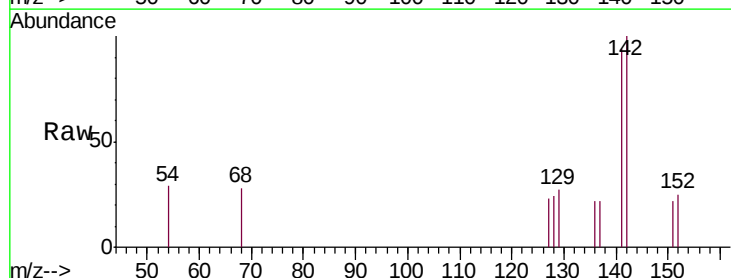
Acq: 26 Oct 2018 16:02

Tgt Ion:142 Resp: 278

Ion Ratio Lower Upper

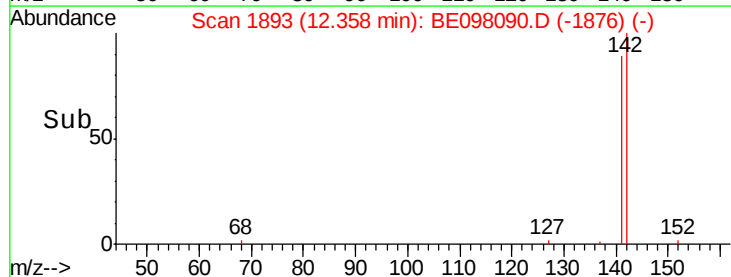
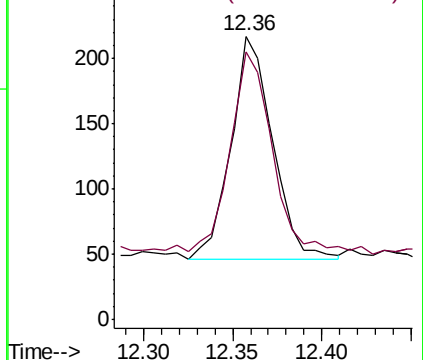
142 100

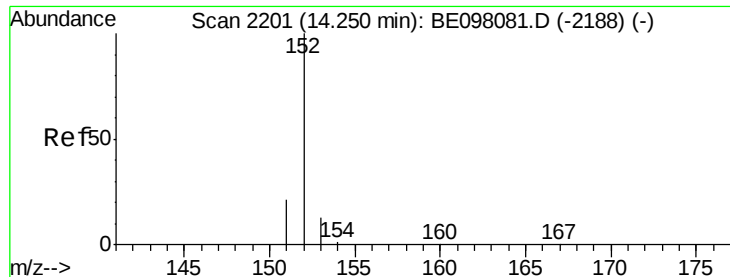
141 95.0 72.5 108.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.078 ng/u1

RT: 14.27 min Scan# 2204

Delta R.T. 0.02 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

C0AE8DL

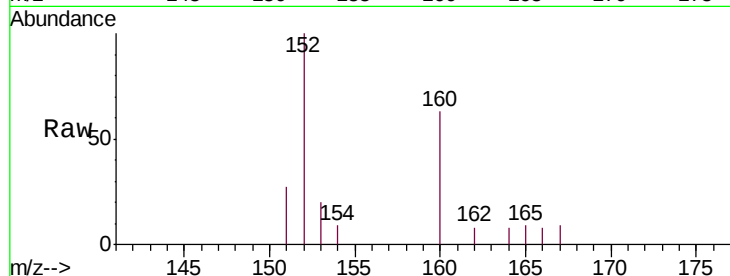
Tgt Ion:152 Resp: 1084

Ion Ratio Lower Upper

152 100

151 26.8 17.3 25.9#

153 19.5 11.9 17.9#



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

14.27

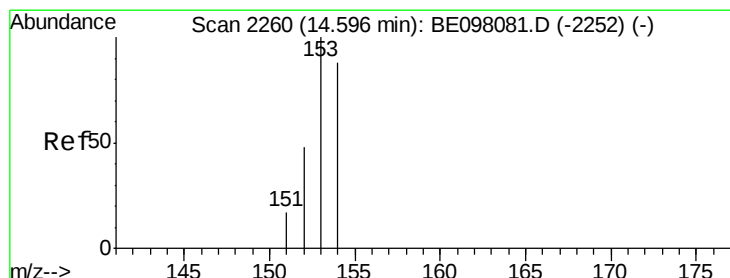
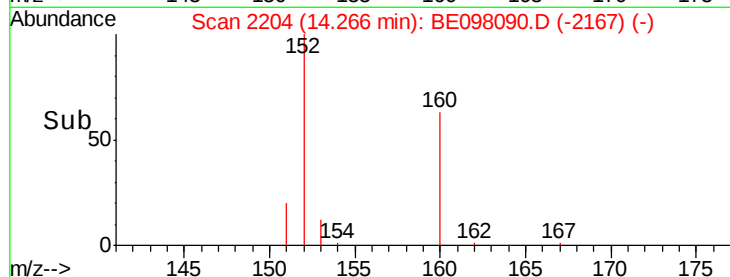
600

400

200

0

Time-->



#8

Acenaphthene

Concen: 0.034 ng/u1

RT: 14.61 min Scan# 2262

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

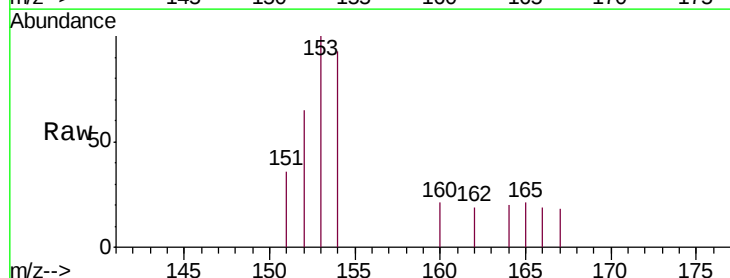
Tgt Ion:153 Resp: 358

Ion Ratio Lower Upper

153 100

152 65.2 39.4 59.0#

154 92.7 70.5 105.7



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

14.61

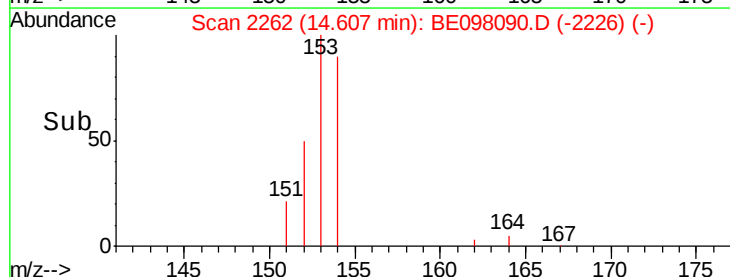
300

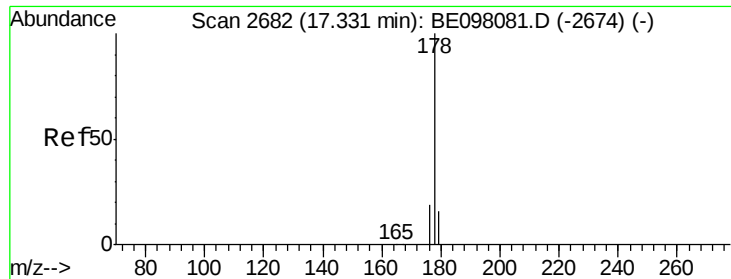
200

100

0

Time-->





#12

Phenanthrene

Concen: 0.170 ng/u1

RT: 17.34 min Scan# 2683

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

C0AE8DL

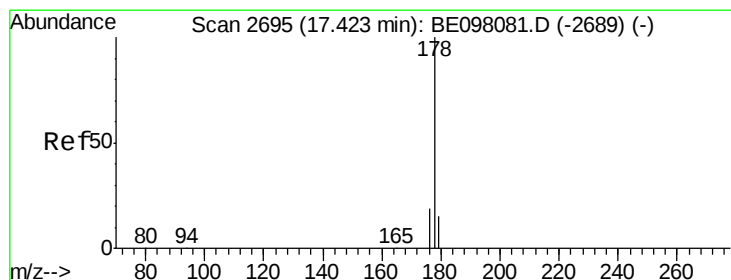
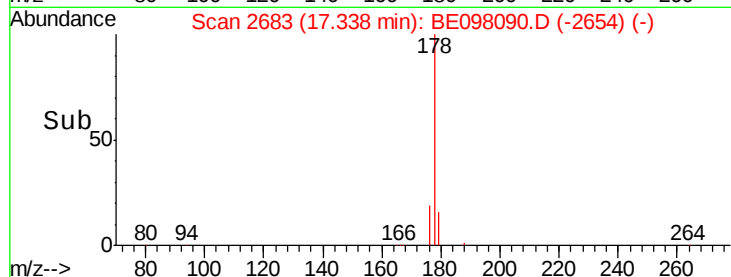
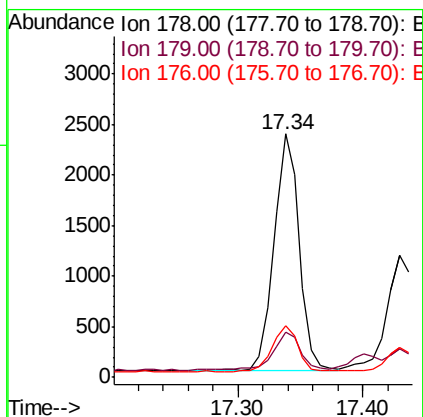
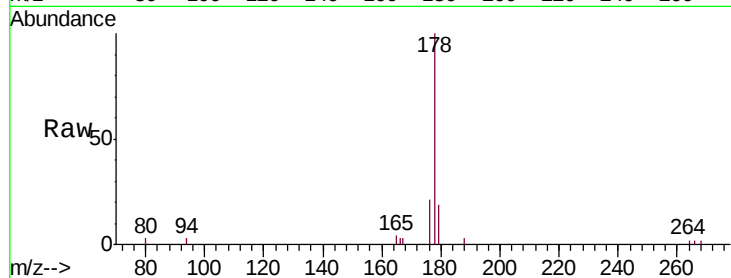
Tgt Ion:178 Resp: 3274

Ion Ratio Lower Upper

178 100

179 18.8 13.0 19.4

176 21.3 15.7 23.5



#13

Anthracene

Concen: 0.094 ng/u1

RT: 17.43 min Scan# 2696

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

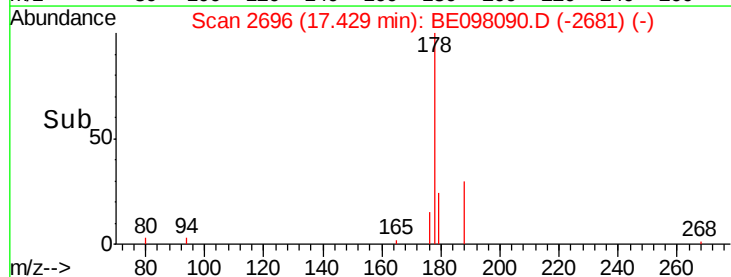
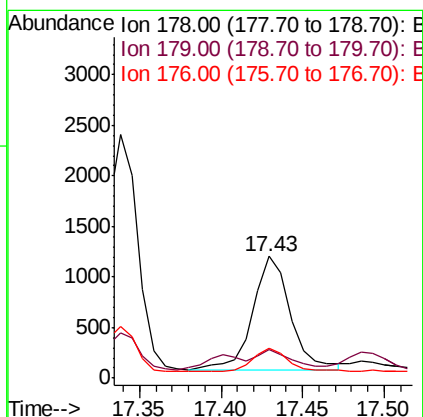
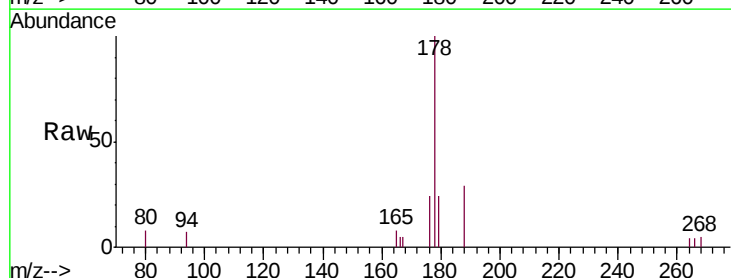
Tgt Ion:178 Resp: 1786

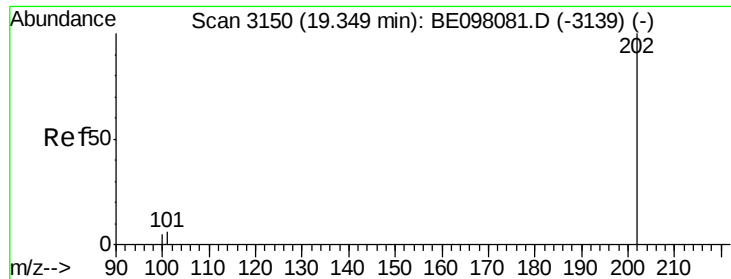
Ion Ratio Lower Upper

178 100

179 24.0 12.6 19.0#

176 24.1 15.6 23.4#





#15

Fluoranthene

Concen: 1.090 ng/ul

RT: 19.36 min Scan# 3152

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

C0AE8DL

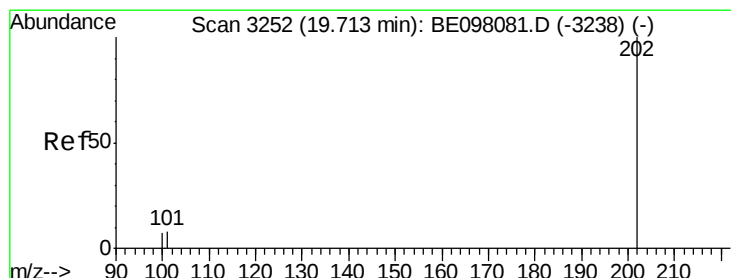
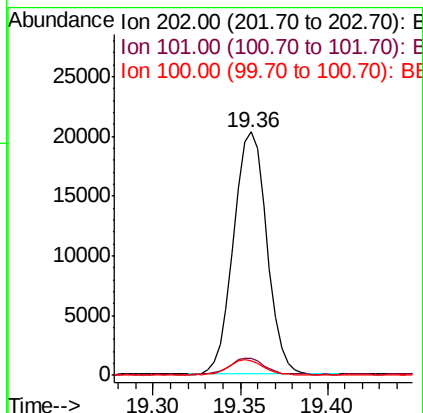
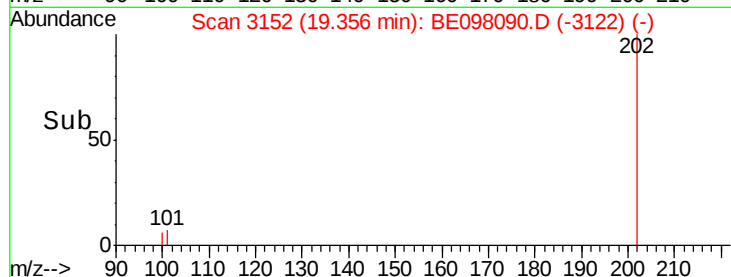
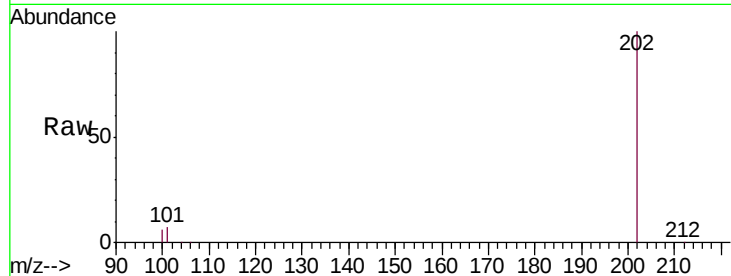
Tgt Ion:202 Resp: 26831

Ion Ratio Lower Upper

202 100

101 7.0 0.0 27.5

100 6.1 0.0 26.0



#17

Pyrene

Concen: 1.225 ng/ul

RT: 19.72 min Scan# 3253

Delta R.T. 0.00 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

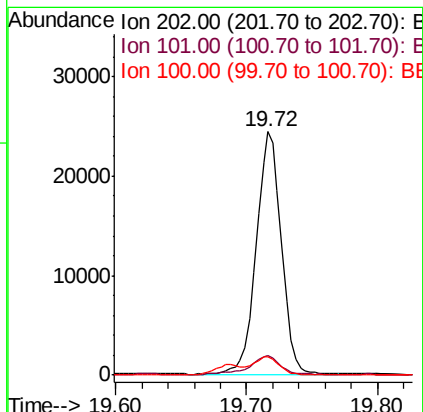
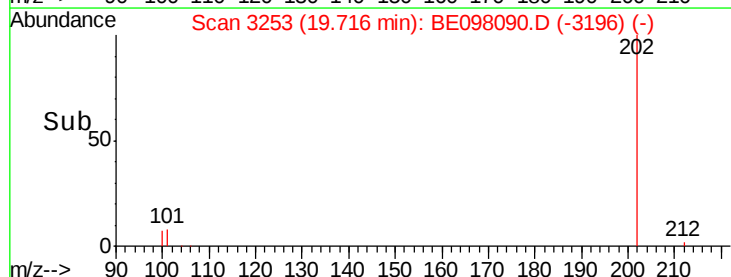
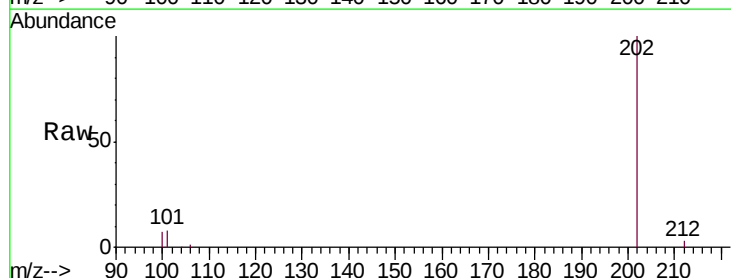
Tgt Ion:202 Resp: 32477

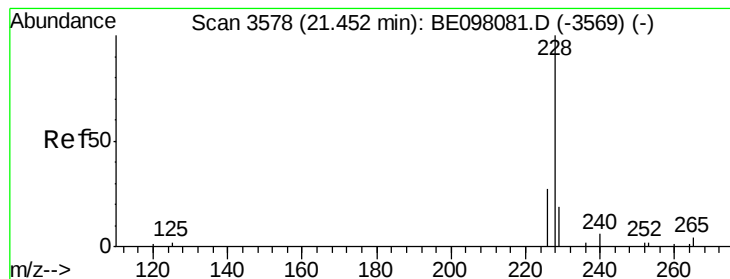
Ion Ratio Lower Upper

202 100

101 7.9 6.9 10.3

100 7.3 6.0 9.0





#18

Benzo(a)anthracene

Concen: 0.696 ng/ul

RT: 21.46 min Scan# 3579

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

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ClientSampleId :

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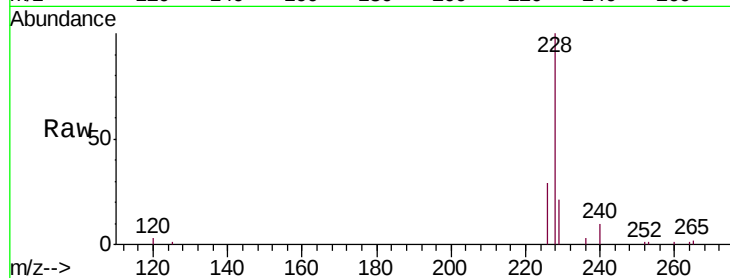
Tgt Ion:228 Resp: 23213

Ion Ratio Lower Upper

228 100

229 21.4 16.1 24.1

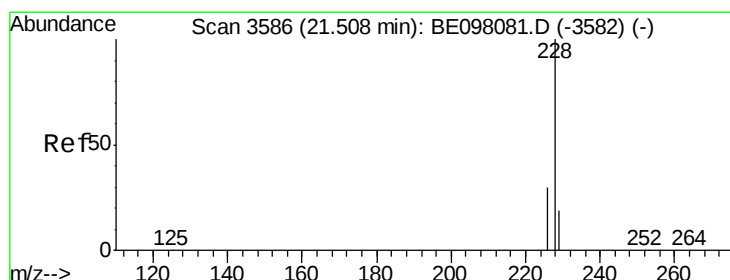
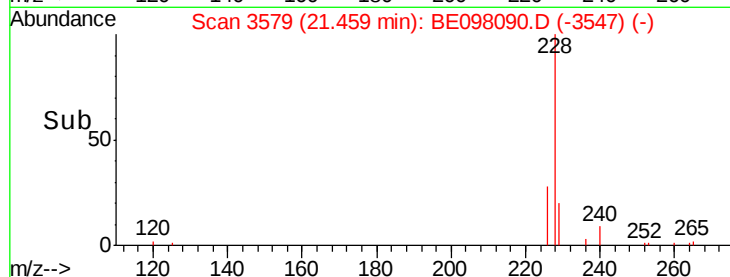
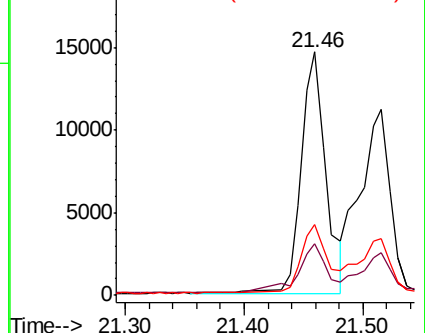
226 29.1 22.2 33.4



Abundance Ion 228.00 (227.70 to 228.70): E

20000 Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#19

Chrysene

Concen: 0.770 ng/ul

RT: 21.52 min Scan# 3587

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

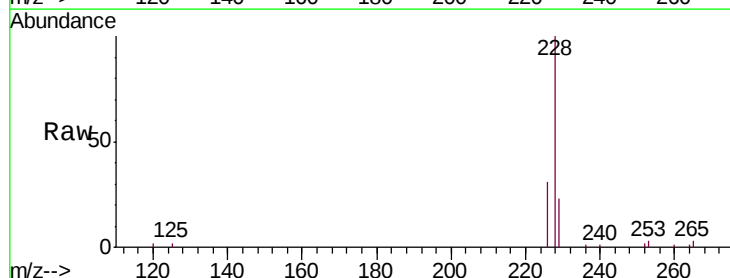
Tgt Ion:228 Resp: 19875

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

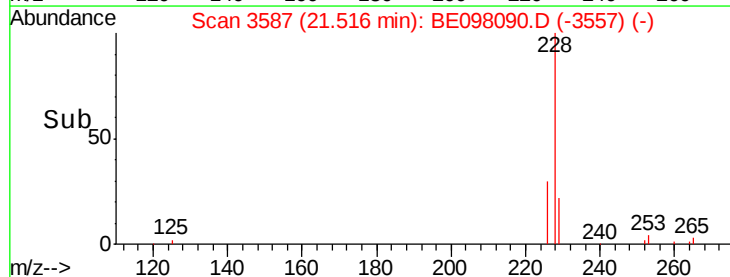
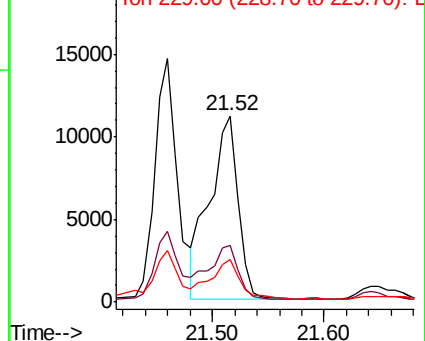
229 23.0 16.4 24.6

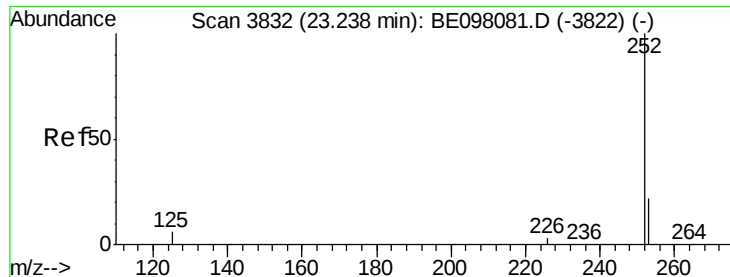


Abundance Ion 228.00 (227.70 to 228.70): E

20000 Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 2.146 ng/u1

RT: 23.25 min Scan# 3833

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

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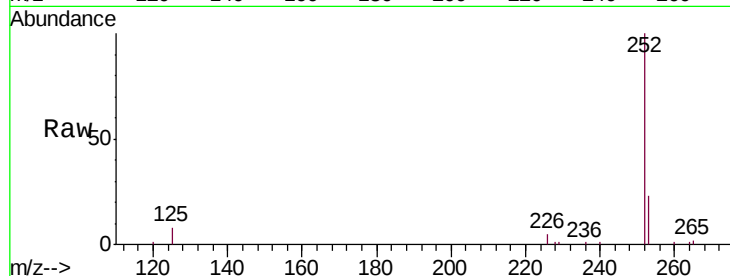
Tgt Ion:252 Resp: 58611

Ion Ratio Lower Upper

252 100

253 22.9 0.0 47.8

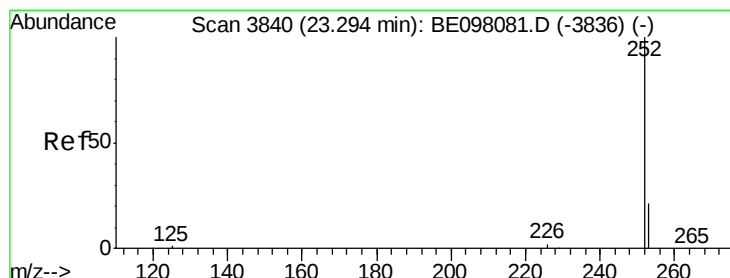
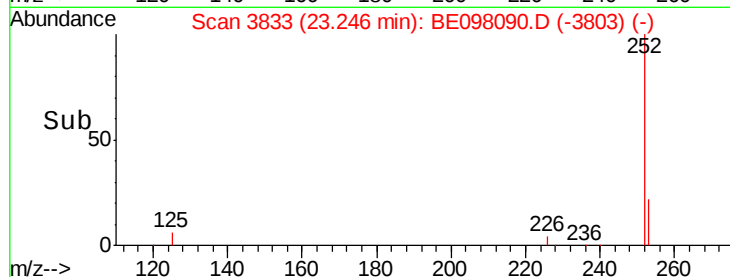
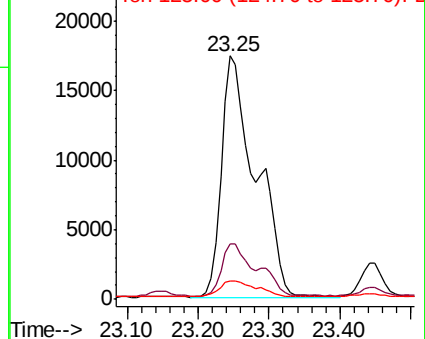
125 7.6 0.0 16.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 2.193 ng/u1

RT: 23.25 min Scan# 3833

Delta R.T. -0.05 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

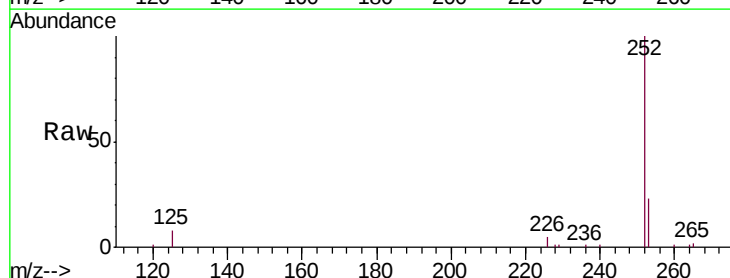
Tgt Ion:252 Resp: 58611

Ion Ratio Lower Upper

252 100

253 22.9 19.3 28.9

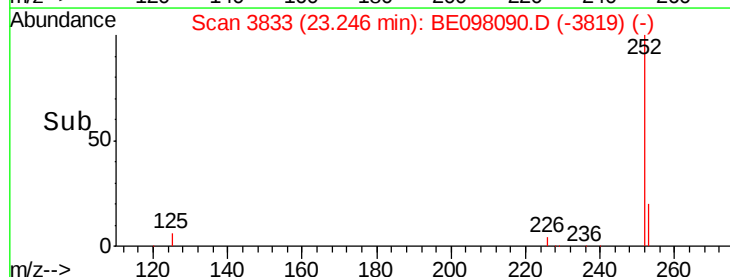
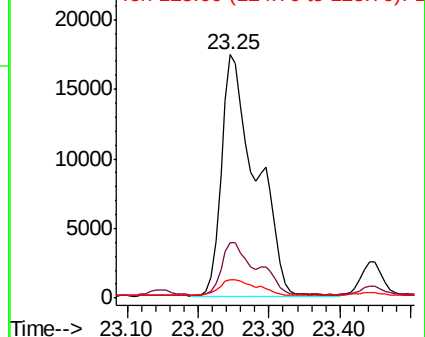
125 7.6 6.2 9.2

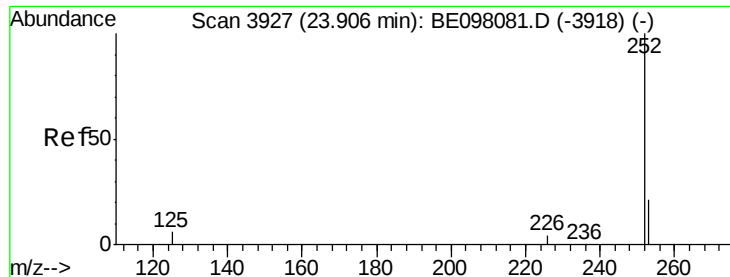


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.693 ng/u1

RT: 23.91 min Scan# 3928

Delta R.T. 0.01 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

C0AE8DL

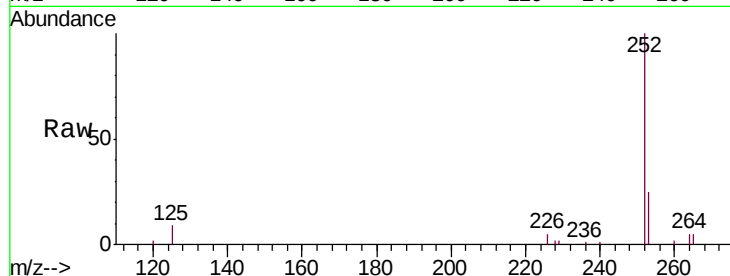
Tgt Ion:252 Resp: 18212

Ion Ratio Lower Upper

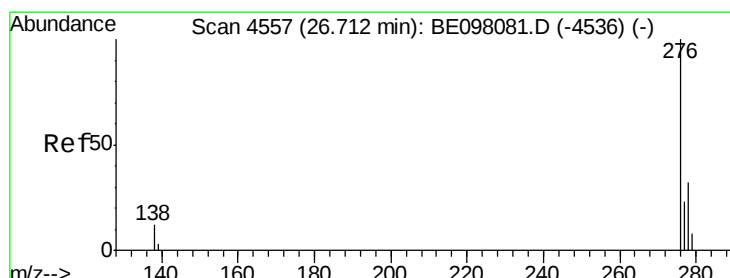
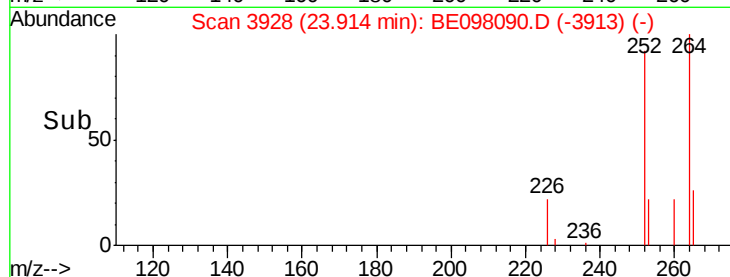
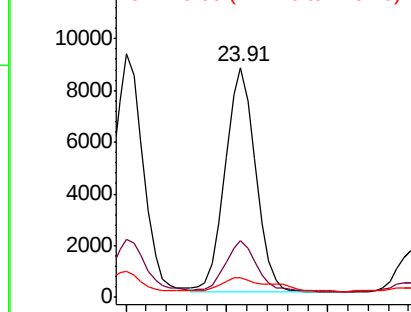
252 100

253 24.5 19.4 29.2

125 8.7 7.8 11.8



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.492 ng/u1

RT: 26.72 min Scan# 4558

Delta R.T. 0.00 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

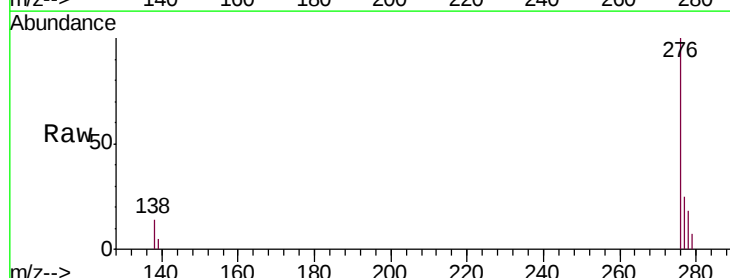
Tgt Ion:276 Resp: 14800

Ion Ratio Lower Upper

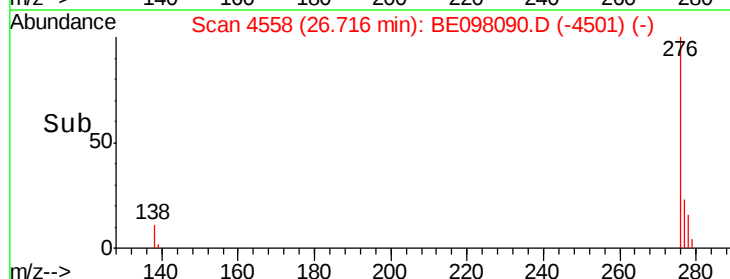
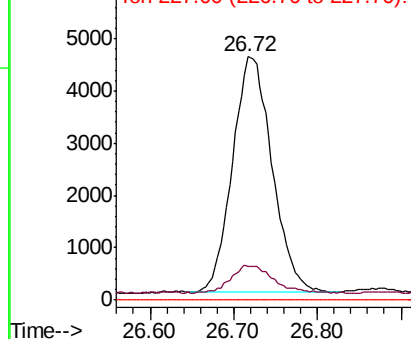
276 100

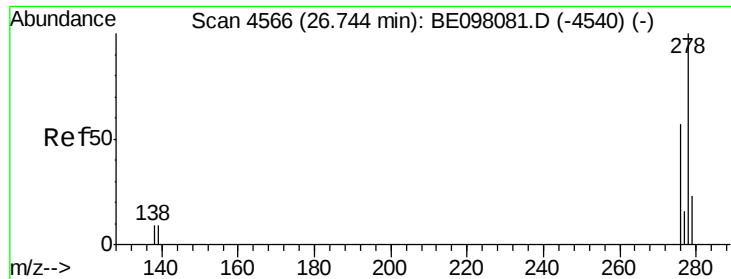
138 12.6 11.8 17.8

227 0.0 0.0 0.0



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.162 ng/ul

RT: 26.74 min Scan# 4565

Delta R.T. -0.00 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

Instrument :

BNA\_E

ClientSampleId :

C0AE8DL

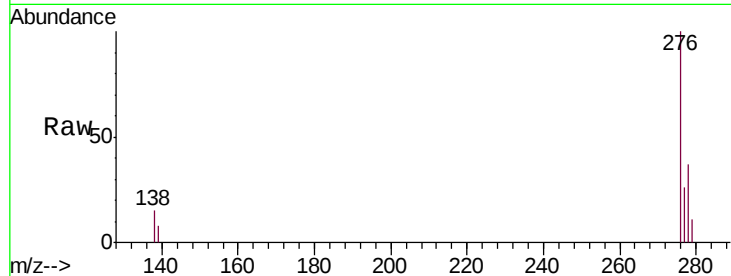
Tgt Ion:278 Resp: 4067

Ion Ratio Lower Upper

278 100

139 21.0 10.0 15.0#

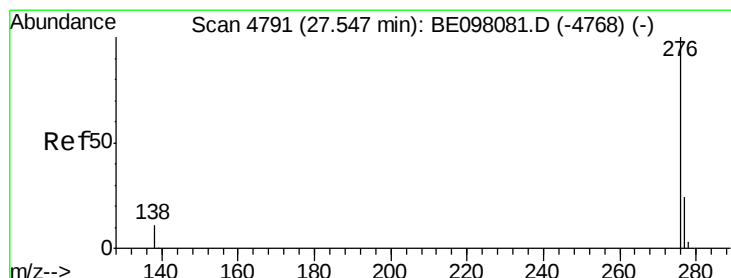
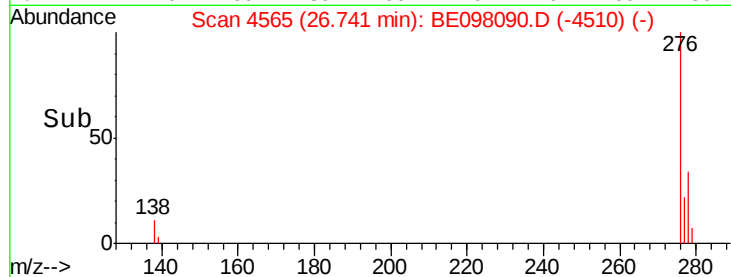
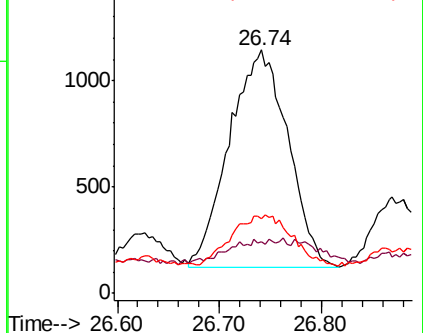
279 30.6 20.3 30.5#



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



#26

Benzo(g,h,i)perylene

Concen: 0.409 ng/ul

RT: 27.55 min Scan# 4792

Delta R.T. 0.00 min

Lab File: BE098090.D

Acq: 26 Oct 2018 16:02

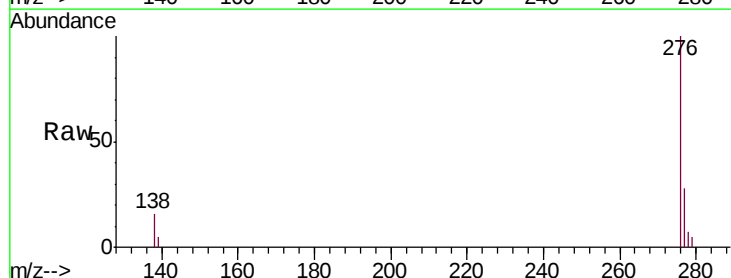
Tgt Ion:276 Resp: 10363

Ion Ratio Lower Upper

276 100

138 16.4 11.6 17.4

277 27.8 20.8 31.2



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

