

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE021015\  
 Data File : BE089567.D  
 Acq On : 11 Feb 2015 2:56  
 Operator : TP/IZ  
 Sample : SSTDCCC001  
 Misc : MDL-WATER-0.1/0.2  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDCCC001

Quant Time: Feb 11 03:47:04 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE021015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 11 01:27:13 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.41  | 152  | 26594    | 5.00 | ng    | 0.00     |
| 2) Naphthalene-d8         | 12.32 | 136  | 97235    | 5.00 | ng    | 0.00     |
| 6) Acenaphthene-d10       | 16.50 | 164  | 38225    | 5.00 | ng    | 0.00     |
| 11) Phenanthrene-d10      | 19.83 | 188  | 73591    | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12          | 23.71 | 240  | 90798    | 5.00 | ng    | 0.00     |
| 22) Perylene-d12          | 25.40 | 264  | 91981    | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 3) Nitrobenzene-d5          | 10.68 | 82   | 6035     | 0.97 | ng    | 0.00     |
| 7) 2-Fluorobiphenyl         | 14.95 | 172  | 10236    | 0.99 | ng    | 0.00     |
| 18) Terphenyl-d14           | 22.36 | 244  | 11351    | 1.00 | ng    | 0.00     |

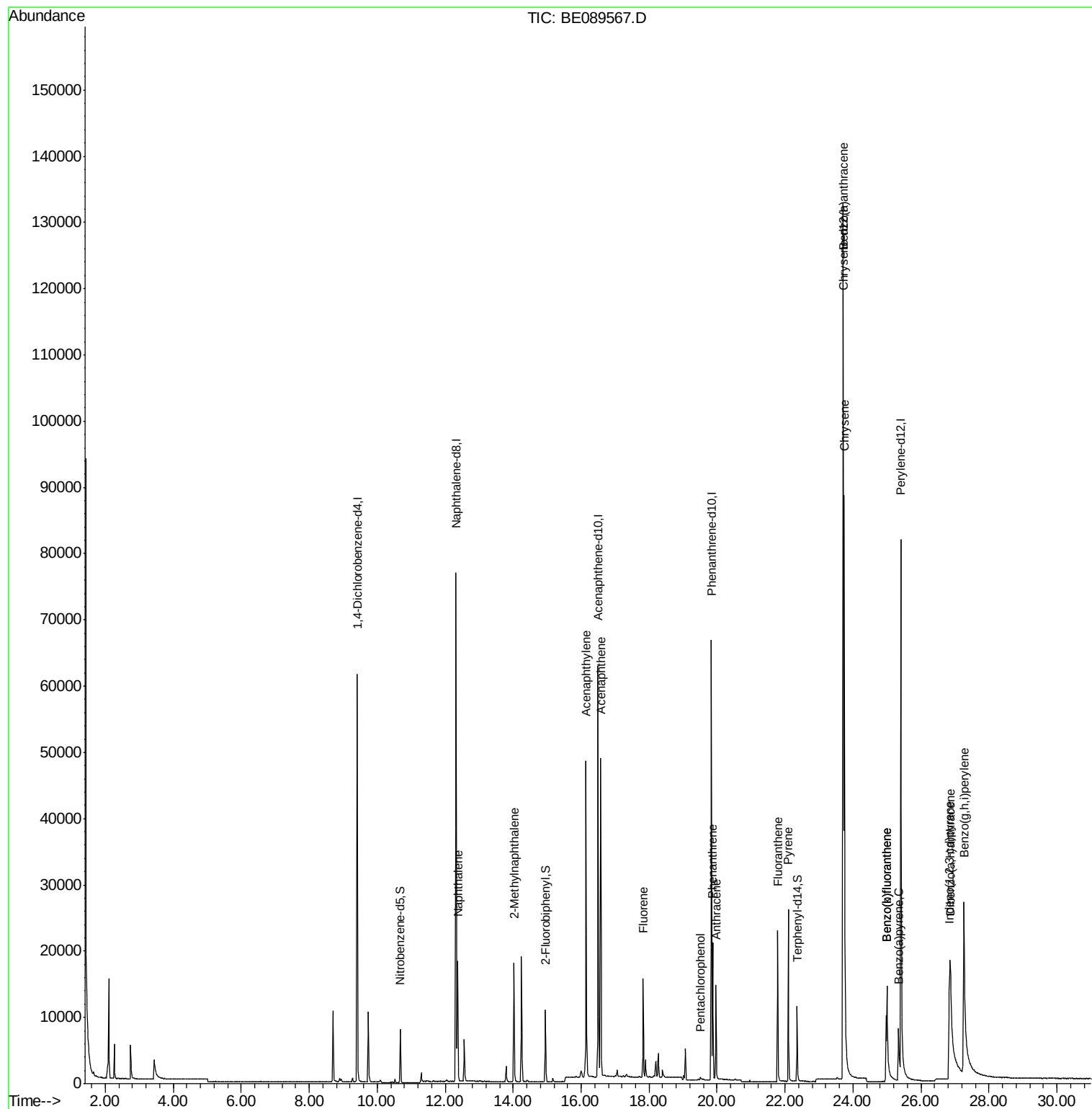
| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 4) Naphthalene             | 12.37 | 128  | 21918    | 1.01 | ng    | 100    |
| 5) 2-Methylnaphthalene     | 14.03 | 142  | 12144    | 1.01 | ng    | 98     |
| 8) Acenaphthylene          | 16.15 | 152  | 64218    | 0.99 | ng    | 100    |
| 9) Acenaphthene            | 16.58 | 154  | 10142    | 0.99 | ng    | 98     |
| 10) Fluorene               | 17.83 | 166  | 10974    | 1.00 | ng    | 98     |
| 12) Pentachlorophenol      | 19.51 | 266  | 354      | 0.92 | ng    | 96     |
| 13) Phenanthrene           | 19.88 | 178  | 18008    | 1.00 | ng    | 99     |
| 14) Anthracene             | 19.97 | 178  | 14970    | 0.98 | ng    | 99     |
| 15) Fluoranthene           | 21.78 | 202  | 16967    | 0.98 | ng    | 99     |
| 17) Pyrene                 | 22.10 | 202  | 18752    | 1.03 | ng    | 99     |
| 19) Benzo(a)anthracene     | 23.70 | 228  | 67514    | 0.89 | ng    | 99     |
| 20) Chrysene               | 23.74 | 228  | 87397    | 1.03 | ng    | 100    |
| 21) Indeno(1,2,3-cd)pyrene | 26.84 | 276  | 65040    | 0.65 | ng    | 99     |
| 23) Benzo(b)fluoranthene   | 25.00 | 252  | 24983    | 1.53 | ng    | 99     |
| 24) Benzo(k)fluoranthene   | 25.00 | 252  | 24983    | 1.11 | ng    | 99     |
| 25) Benzo(a)pyrene         | 25.34 | 252  | 11346    | 0.77 | ng    | 99     |
| 26) Dibenzo(a,h)anthracene | 26.87 | 278  | 12780    | 0.70 | ng    | 100    |
| 27) Benzo(g,h,i)perylene   | 27.26 | 276  | 66227    | 0.87 | ng    | 97     |

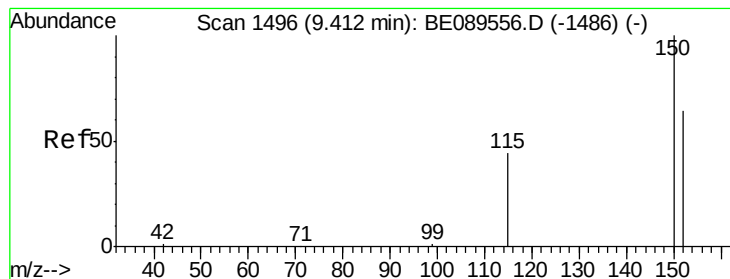
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.41 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

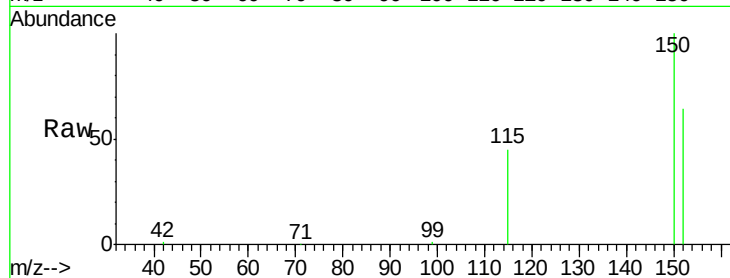
Tgt Ion:152 Resp: 26594

Ion Ratio Lower Upper

152 100

150 156.6 125.6 188.4

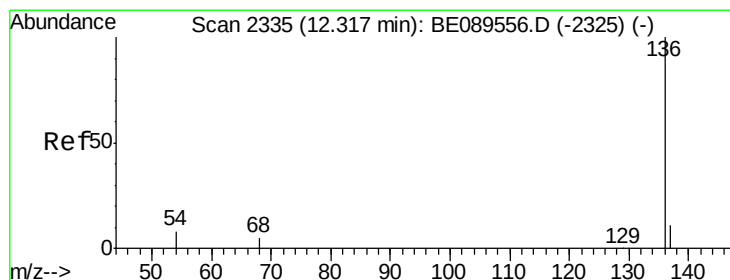
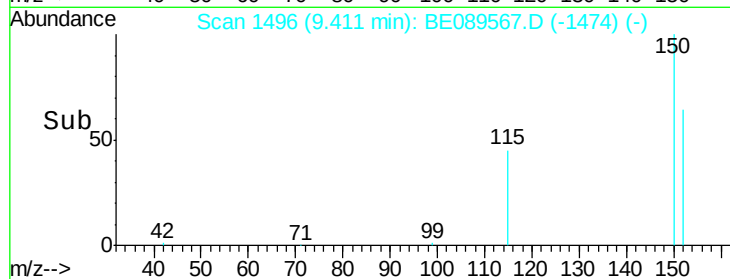
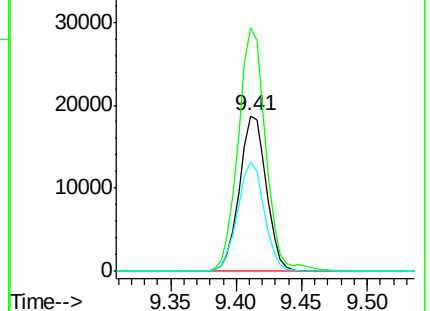
115 70.2 55.8 83.6



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.32 min Scan# 2335

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

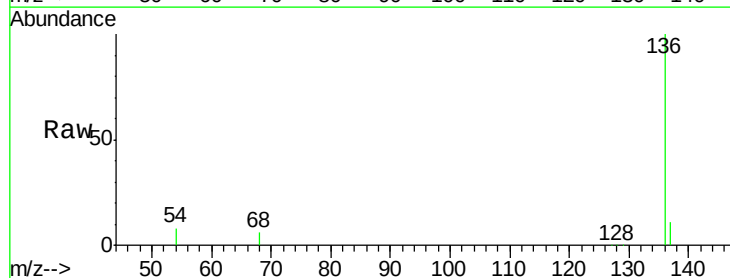
Tgt Ion:136 Resp: 97235

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

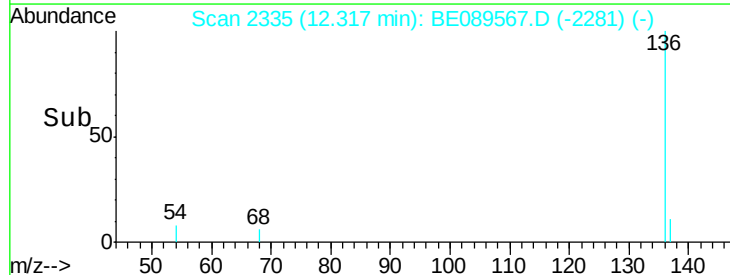
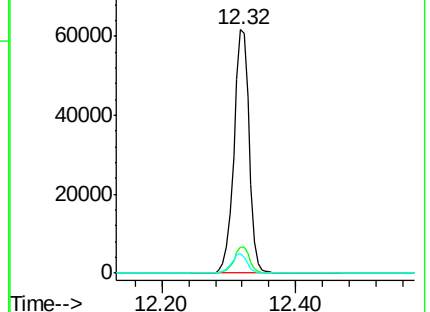
54 8.3 6.6 9.8

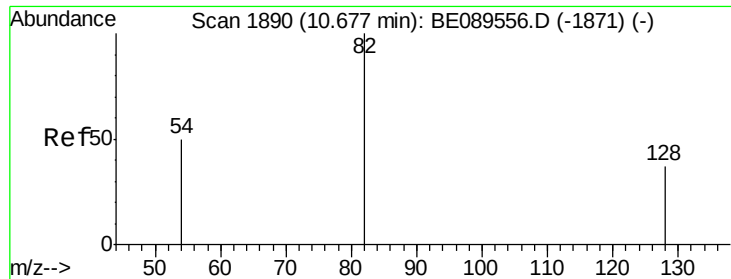


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 0.97 ng

RT: 10.68 min Scan# 1891

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

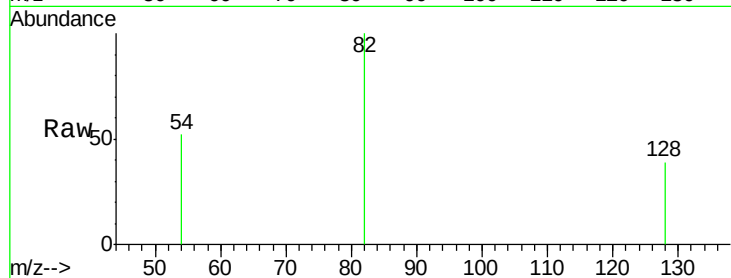
Tgt Ion: 82 Resp: 6035

Ion Ratio Lower Upper

82 100

128 38.9 30.4 45.6

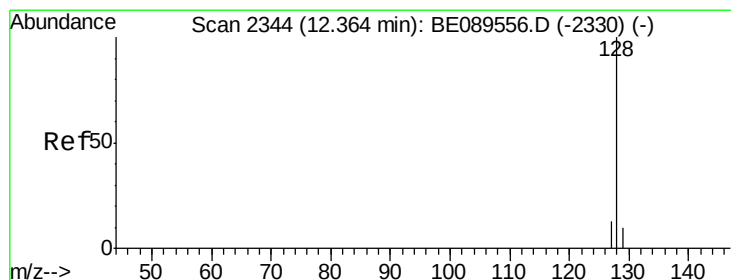
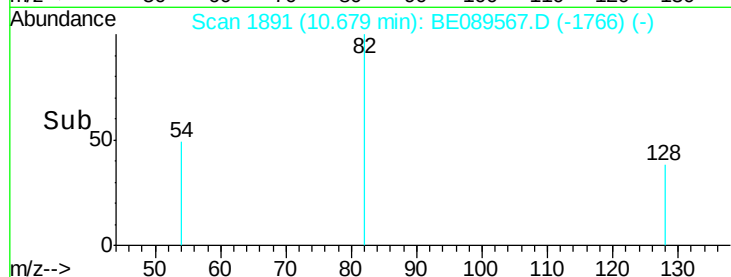
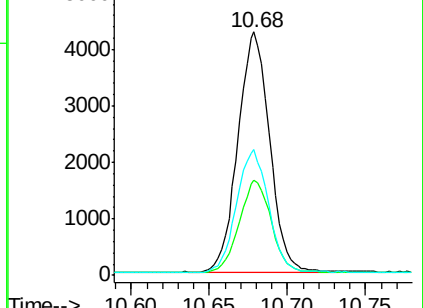
54 51.6 40.7 61.1



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



#4

Naphthalene

Concen: 1.01 ng

RT: 12.37 min Scan# 2344

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

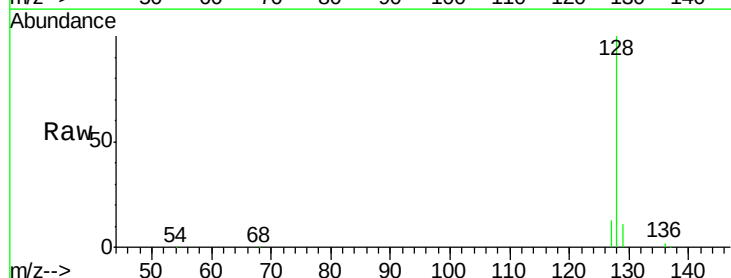
Tgt Ion: 128 Resp: 21918

Ion Ratio Lower Upper

128 100

129 10.8 8.5 12.7

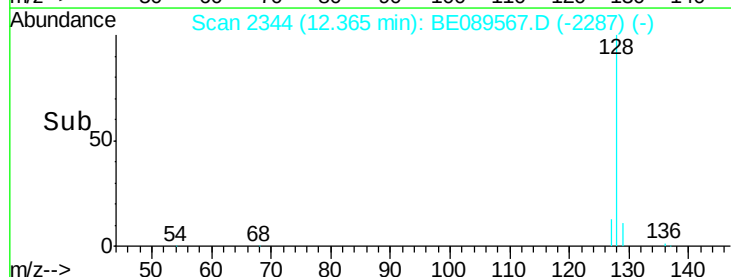
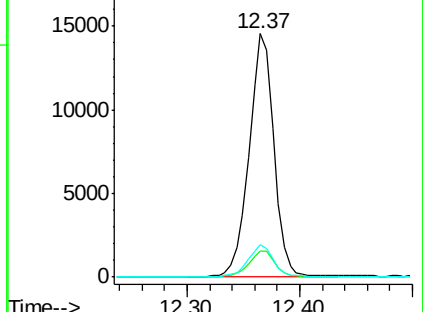
127 13.1 10.6 15.8

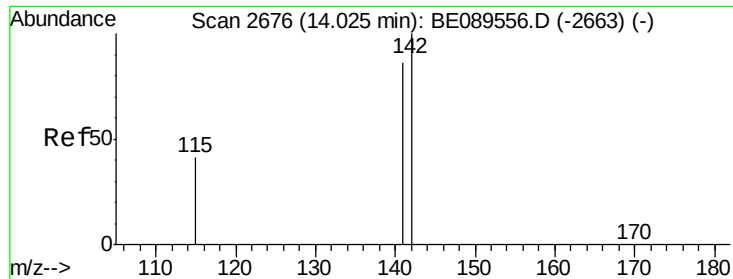


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 1.01 ng

RT: 14.03 min Scan# 2676

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

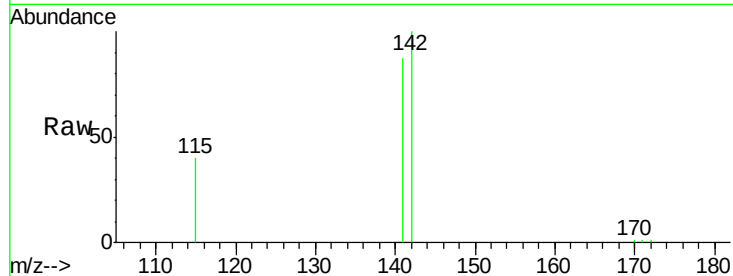
Tgt Ion:142 Resp: 12144

Ion Ratio Lower Upper

142 100

141 87.0 68.6 102.8

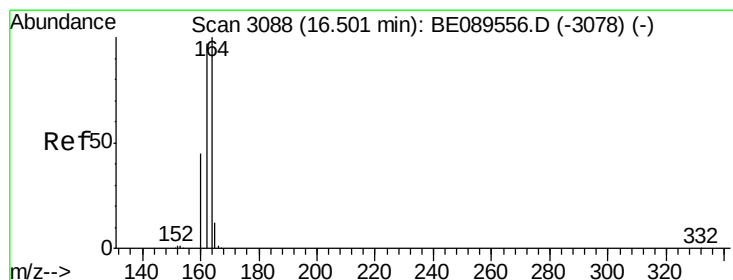
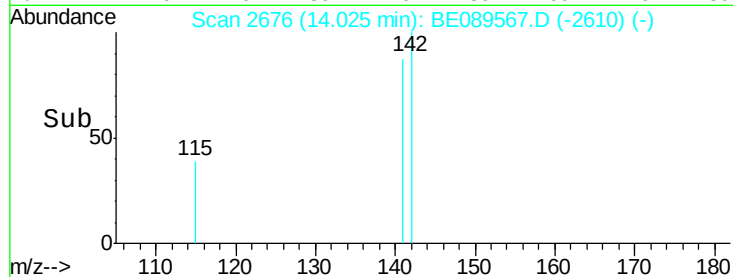
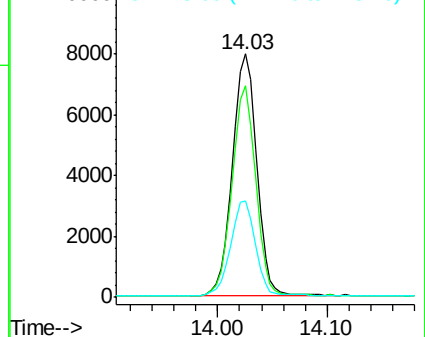
115 39.6 33.0 49.6



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.50 min Scan# 3088

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

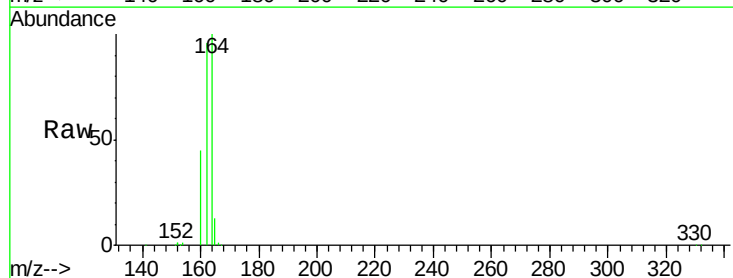
Tgt Ion:164 Resp: 38225

Ion Ratio Lower Upper

164 100

162 96.2 77.8 116.6

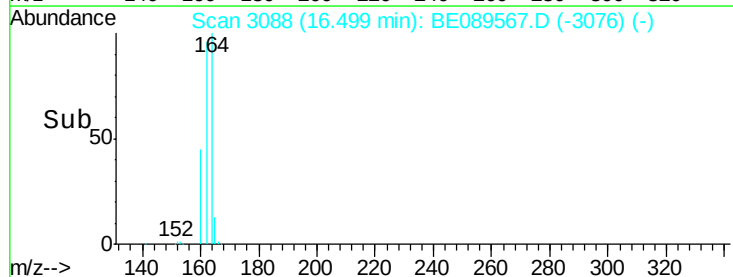
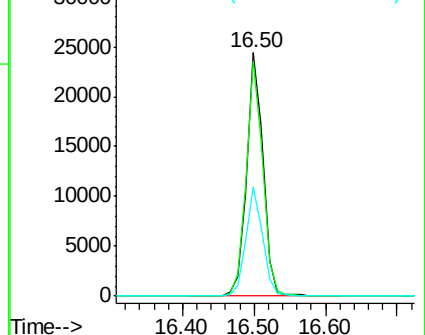
160 44.9 36.2 54.2

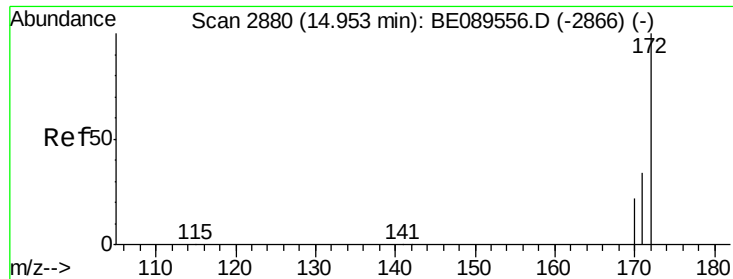


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 0.99 ng

RT: 14.95 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

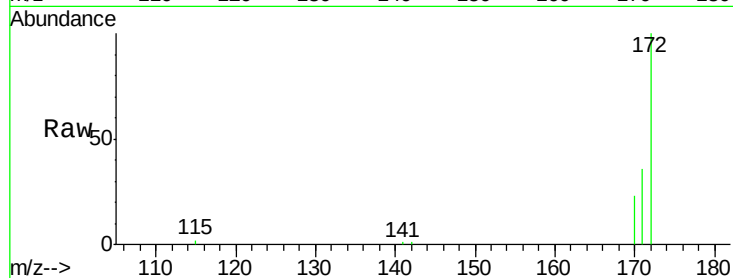
Tgt Ion:172 Resp: 10236

Ion Ratio Lower Upper

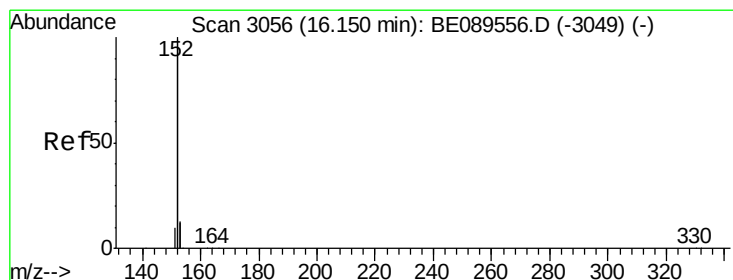
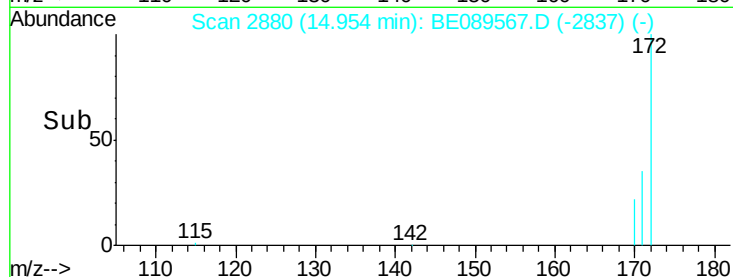
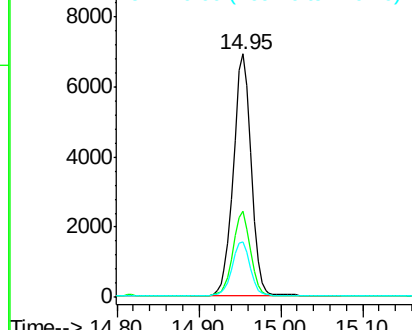
172 100

171 35.6 27.4 41.0

170 22.7 18.3 27.5



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



#8

Acenaphthylene

Concen: 0.99 ng

RT: 16.15 min Scan# 3056

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

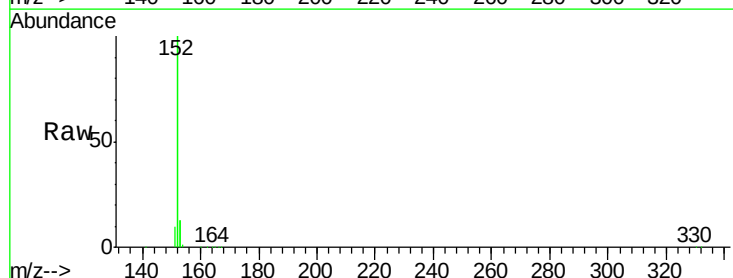
Tgt Ion:152 Resp: 64218

Ion Ratio Lower Upper

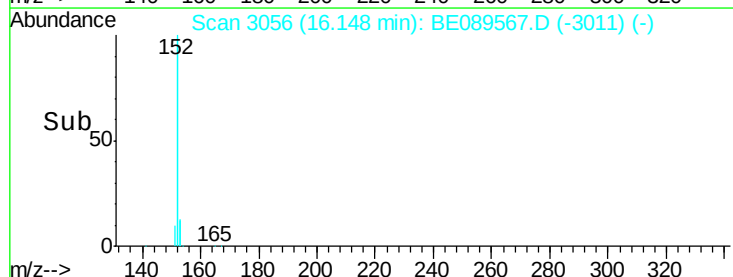
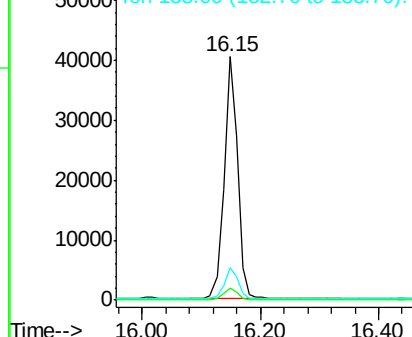
152 100

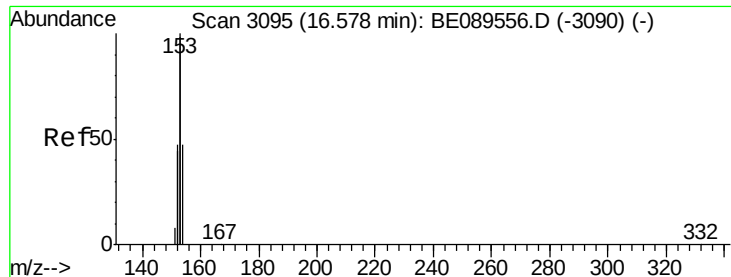
151 4.8 3.9 5.9

153 13.0 10.4 15.6



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





#9

Acenaphthene

Concen: 0.99 ng

RT: 16.58 min Scan# 3095

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

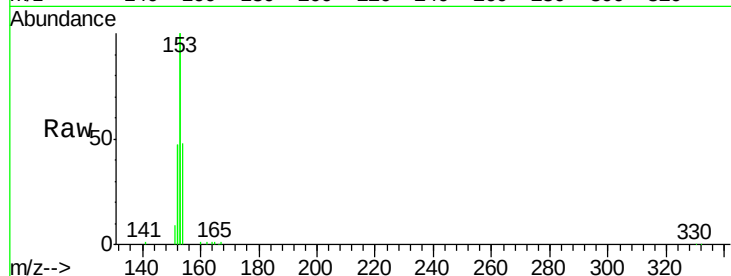
Tgt Ion:154 Resp: 10142

Ion Ratio Lower Upper

154 100

153 433.3 349.0 523.4

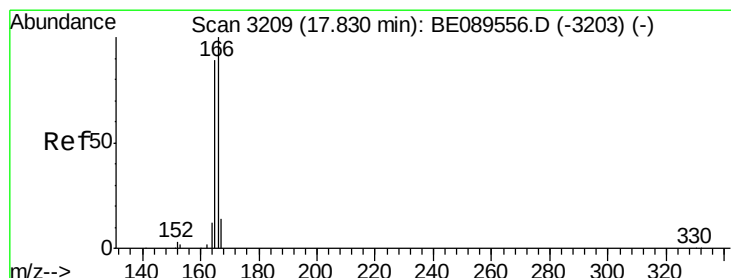
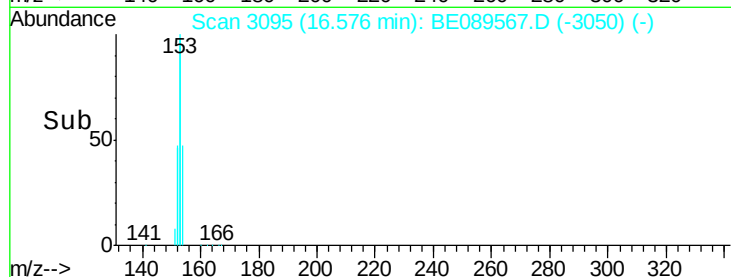
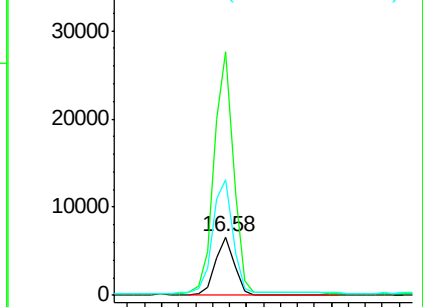
152 211.8 173.0 259.4



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



#10

Fluorene

Concen: 1.00 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

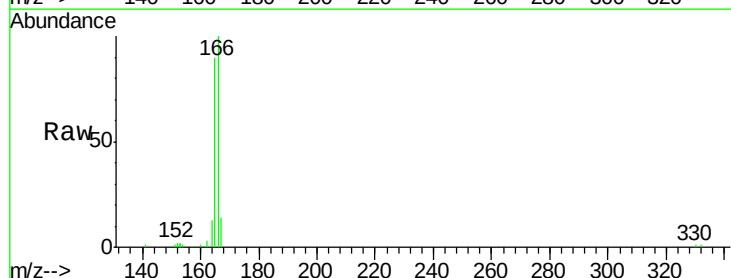
Tgt Ion:166 Resp: 10974

Ion Ratio Lower Upper

166 100

165 91.3 75.1 112.7

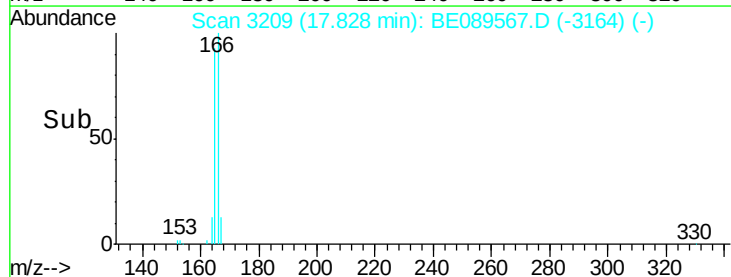
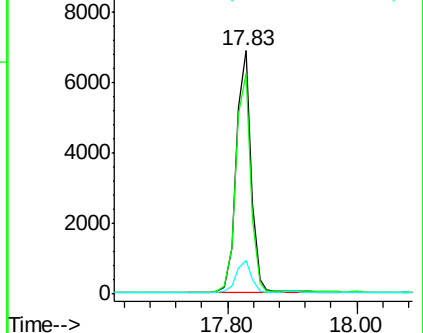
167 13.1 10.6 16.0

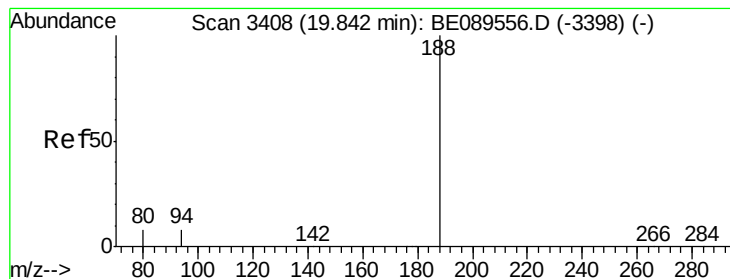


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

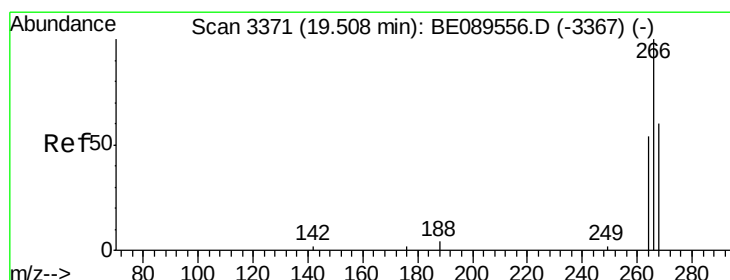
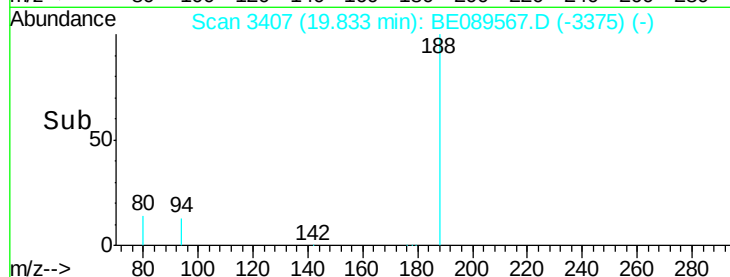
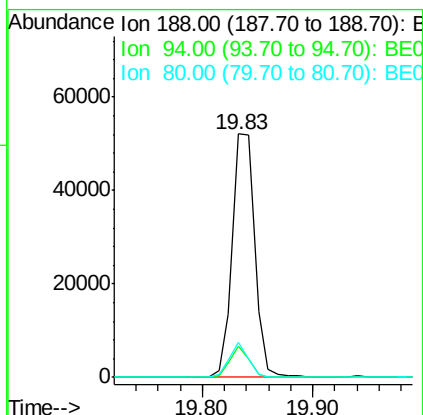
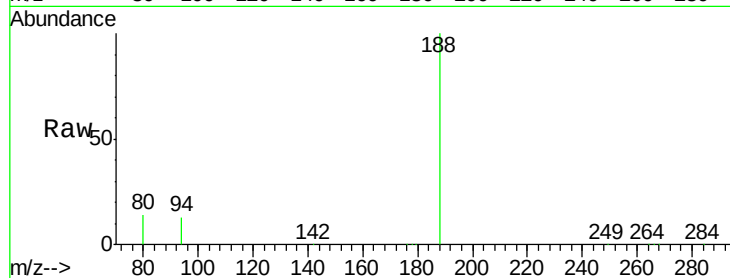




#11  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 19.83 min Scan# 3407  
Delta R.T. -0.01 min  
Lab File: BE089567.D  
Acq: 11 Feb 2015 2:56

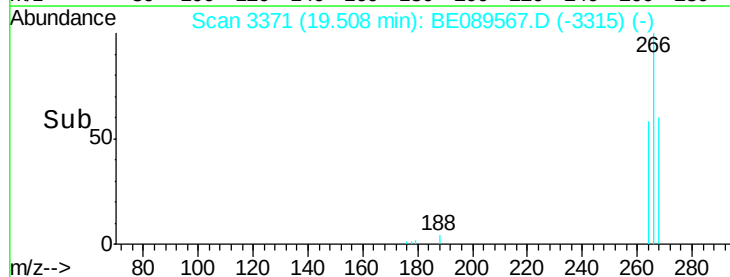
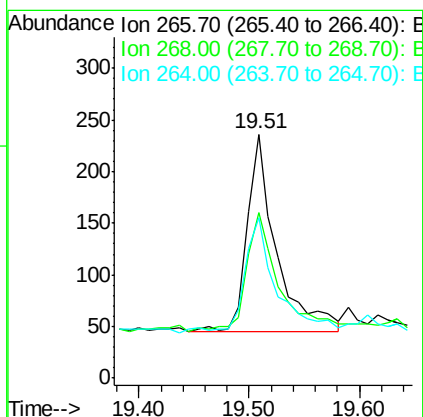
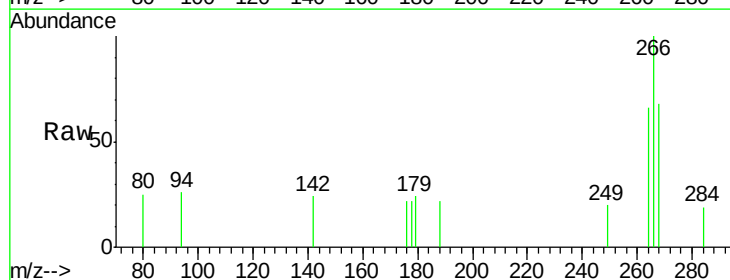
Instrument :  
BNA\_E  
LabSampleId :  
SSTDCCC001

Tgt Ion:188 Resp: 73591  
Ion Ratio Lower Upper  
188 100  
94 13.0 6.2 9.2#  
80 14.3 6.4 9.6#

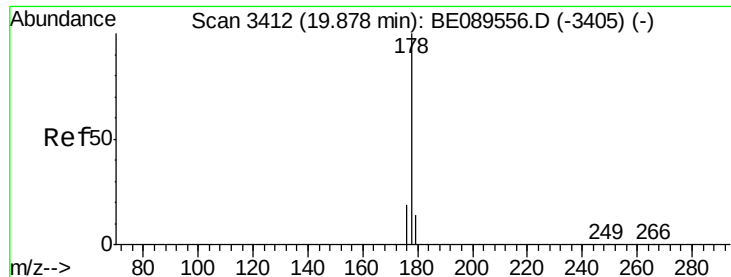


#12  
Pentachlorophenol  
Concen: 0.92 ng  
RT: 19.51 min Scan# 3371  
Delta R.T. 0.00 min  
Lab File: BE089567.D  
Acq: 11 Feb 2015 2:56

Tgt Ion:266 Resp: 354  
Ion Ratio Lower Upper  
266 100  
268 67.8 57.9 86.9  
264 65.7 54.6 81.8







#13

Phenanthrene

Concen: 1.00 ng

RT: 19.88 min Scan# 3412

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

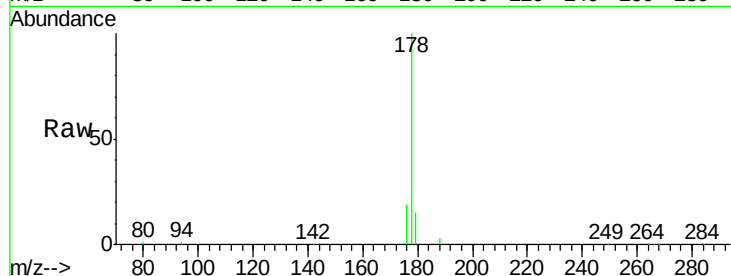
Tgt Ion:178 Resp: 18008

Ion Ratio Lower Upper

178 100

176 18.7 15.1 22.7

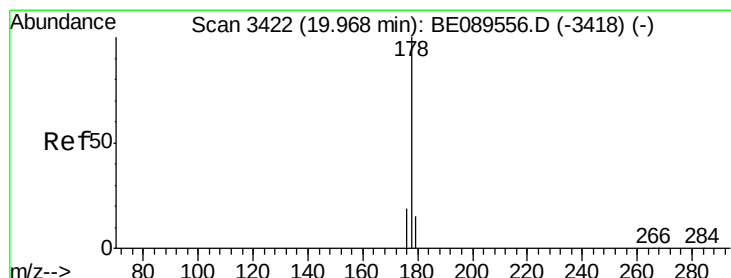
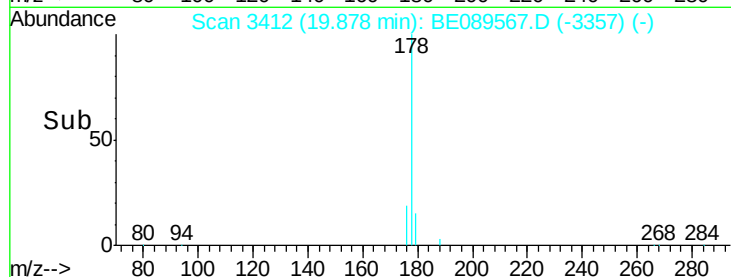
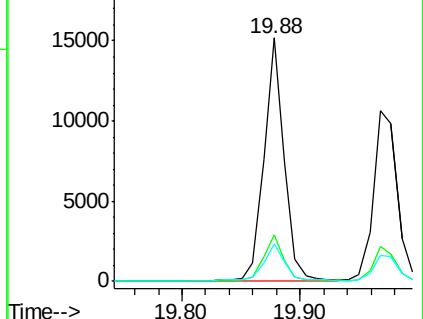
179 15.4 12.1 18.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.98 ng

RT: 19.97 min Scan# 3422

Delta R.T. -0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

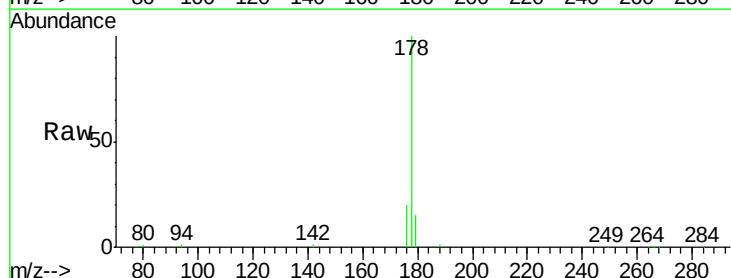
Tgt Ion:178 Resp: 14970

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

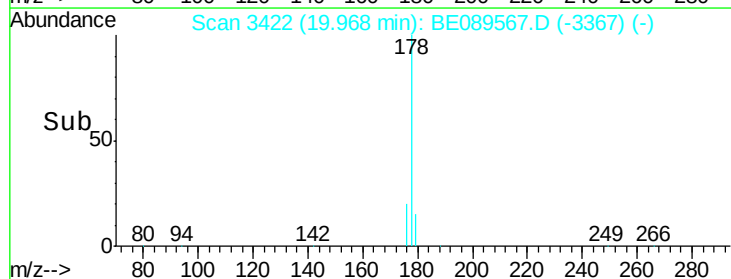
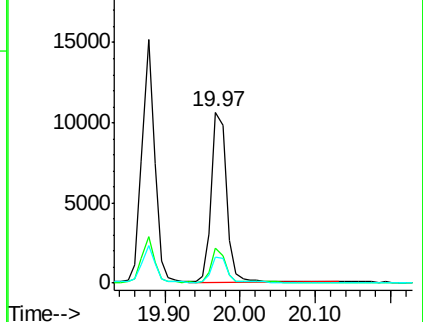
179 15.2 12.7 19.1

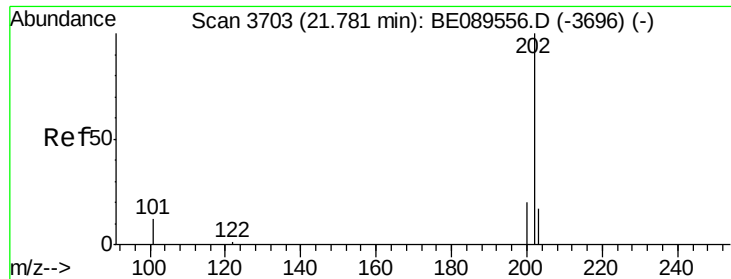


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

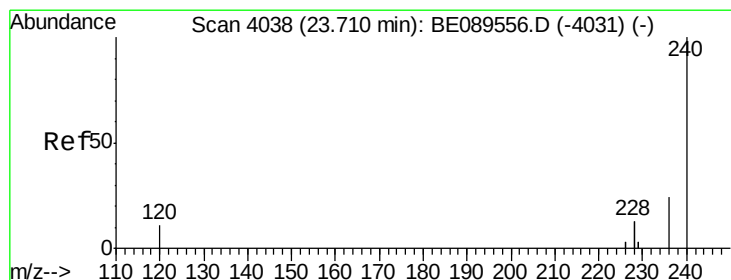
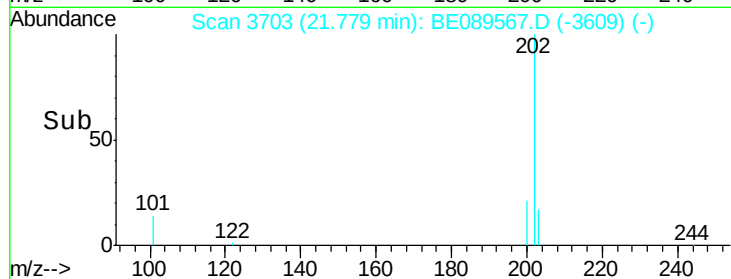
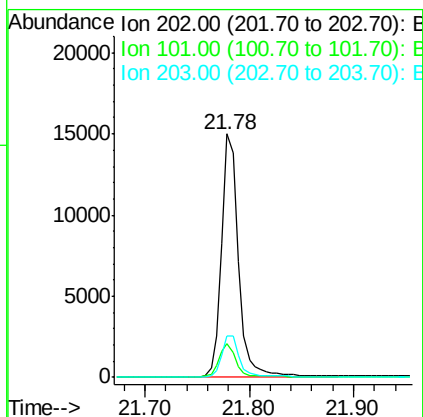
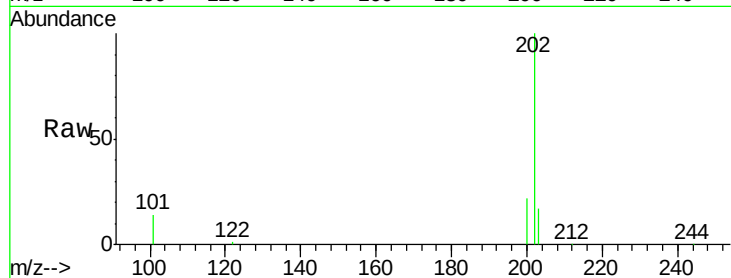




#15  
 Fluoranthene  
 Concen: 0.98 ng  
 RT: 21.78 min Scan# 3703  
 Delta R.T. -0.00 min  
 Lab File: BE089567.D  
 Acq: 11 Feb 2015 2:56

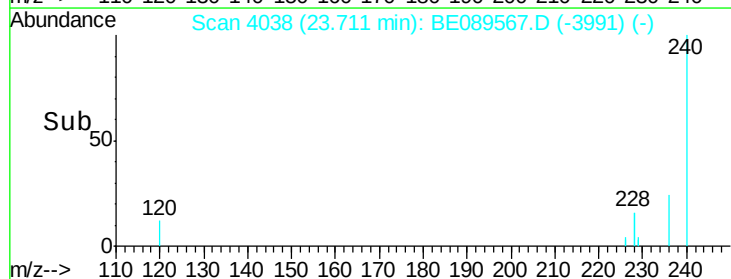
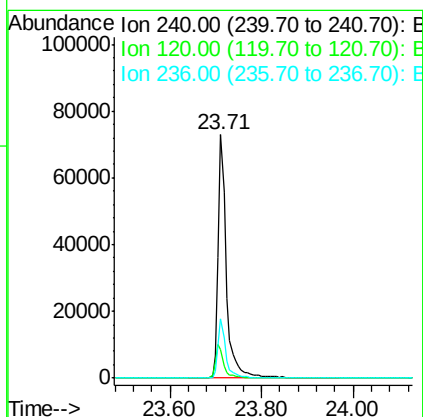
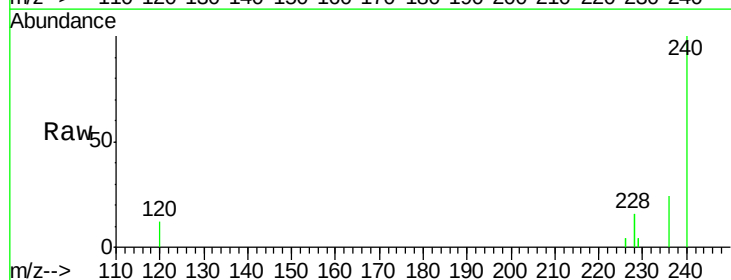
Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDCCC001

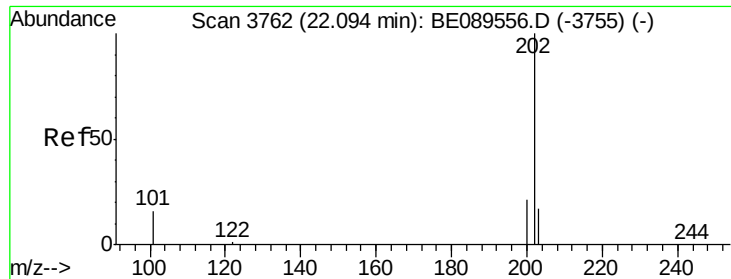
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.2  | 10.4  | 15.6  |
| 203     | 17.3  | 13.6  | 20.4  |



#16  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 23.71 min Scan# 4038  
 Delta R.T. 0.00 min  
 Lab File: BE089567.D  
 Acq: 11 Feb 2015 2:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.6  | 9.3   | 13.9  |
| 236     | 24.1  | 19.3  | 28.9  |

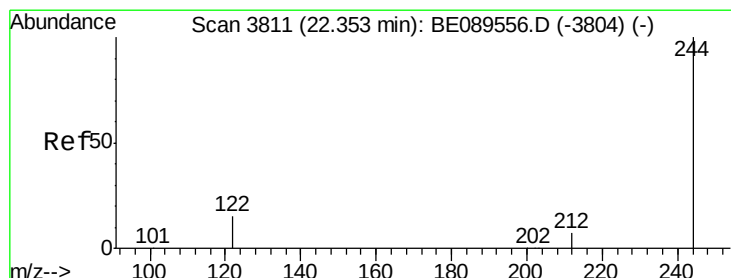
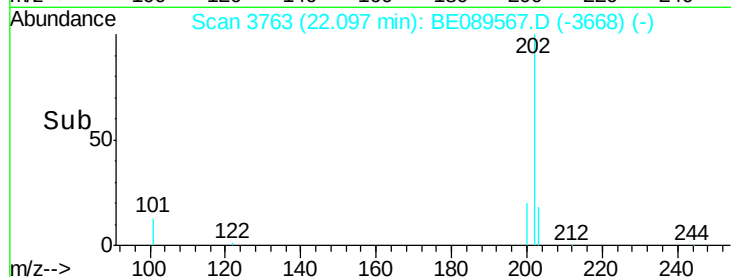
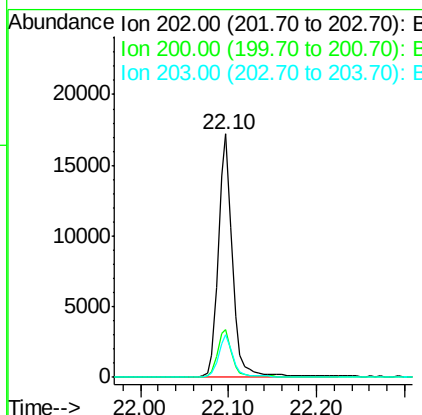
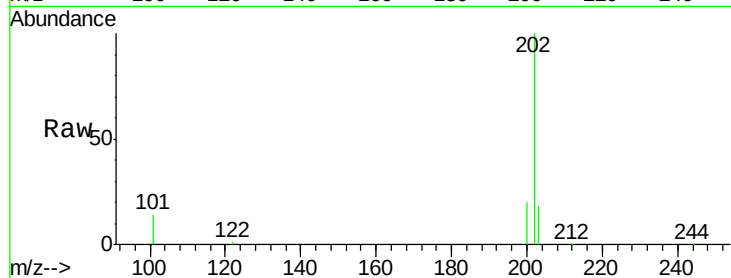




#17  
 Pyrene  
 Concen: 1.03 ng  
 RT: 22.10 min Scan# 3763  
 Delta R.T. 0.00 min  
 Lab File: BE089567.D  
 Acq: 11 Feb 2015 2:56

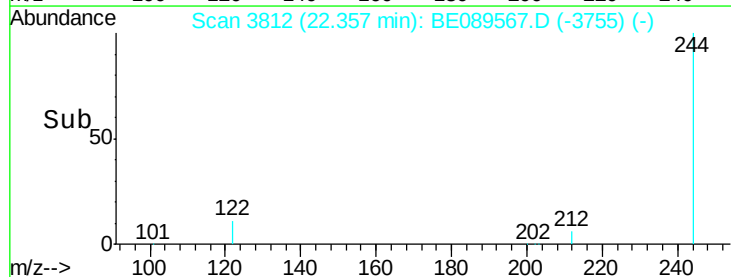
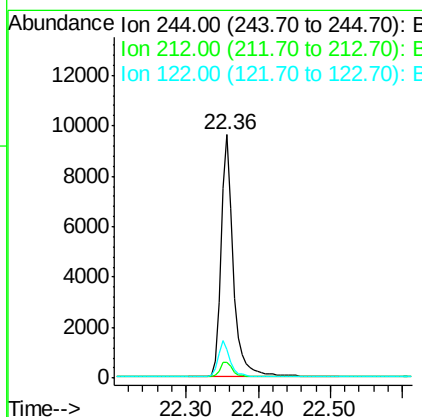
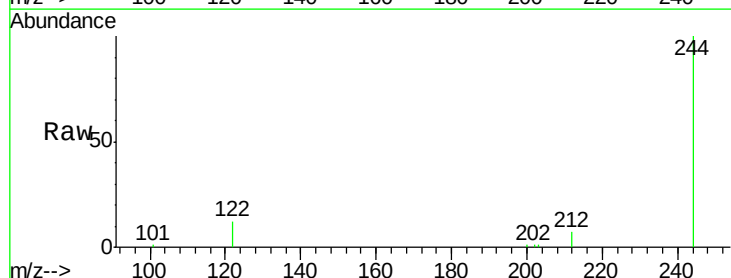
Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDCCC001

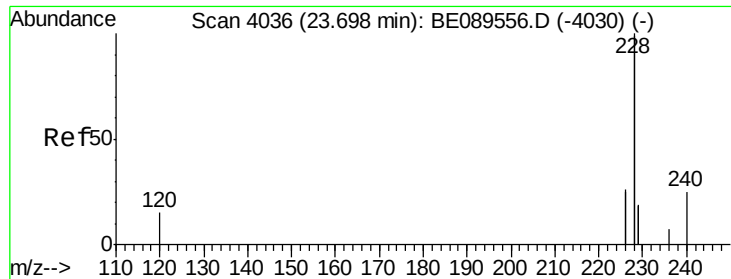
Tgt Ion: 202 Resp: 18752  
 Ion Ratio Lower Upper  
 202 100  
 200 20.2 16.6 24.8  
 203 17.2 14.2 21.2



#18  
 Terphenyl-d14  
 Concen: 1.00 ng  
 RT: 22.36 min Scan# 3812  
 Delta R.T. 0.00 min  
 Lab File: BE089567.D  
 Acq: 11 Feb 2015 2:56

Tgt Ion: 244 Resp: 11351  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.9 8.9  
 122 11.7 12.2 18.2#





#19

Benzo(a)anthracene

Concen: 0.89 ng

RT: 23.70 min Scan# 4036

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

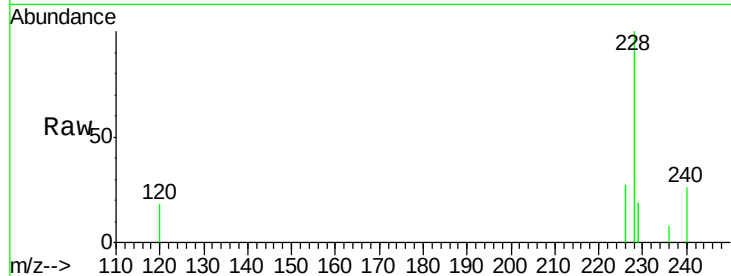
Tgt Ion:228 Resp: 67514

Ion Ratio Lower Upper

228 100

226 27.0 21.0 31.4

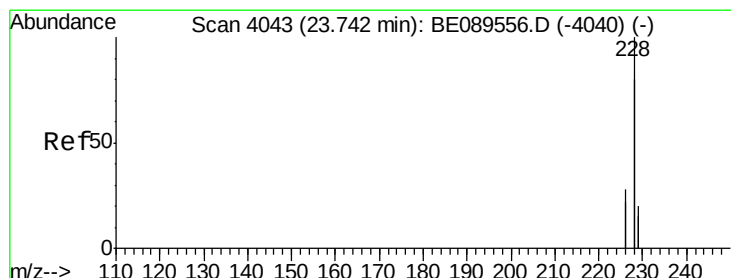
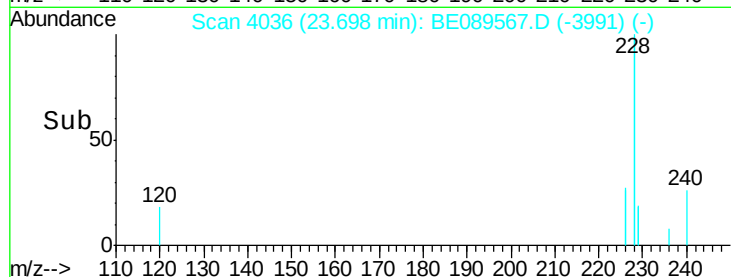
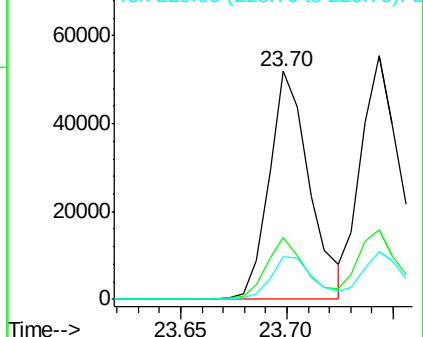
229 18.8 15.2 22.8



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



#20

Chrysene

Concen: 1.03 ng

RT: 23.74 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

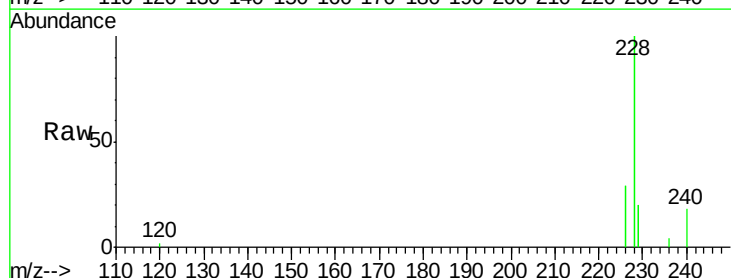
Tgt Ion:228 Resp: 87397

Ion Ratio Lower Upper

228 100

226 28.6 22.6 34.0

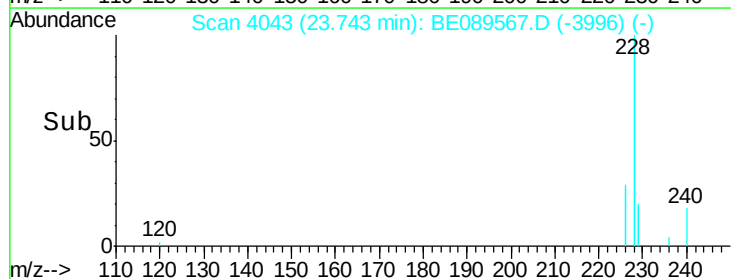
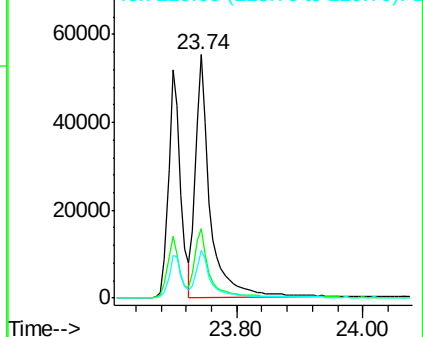
229 19.6 15.6 23.4

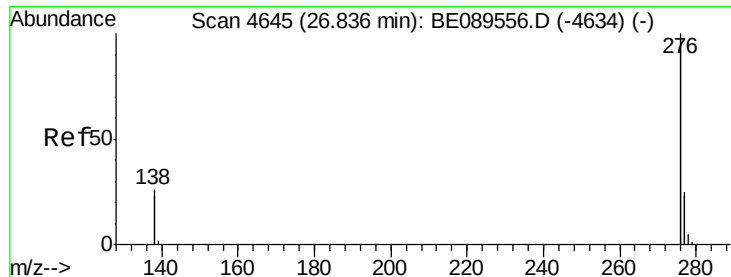


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.65 ng

RT: 26.84 min Scan# 4645

Delta R.T. 0.01 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

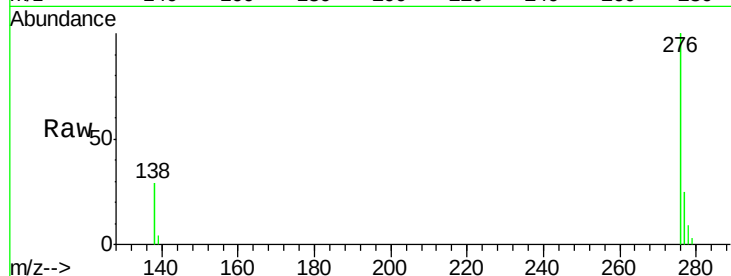
Tgt Ion:276 Resp: 65040

Ion Ratio Lower Upper

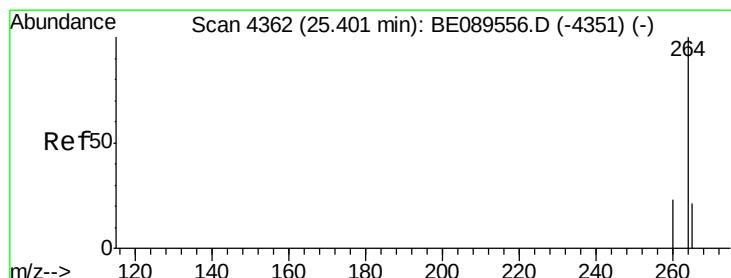
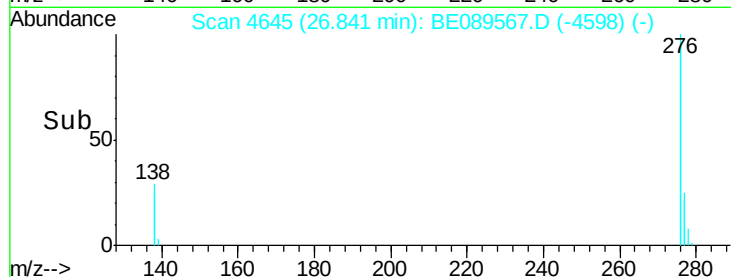
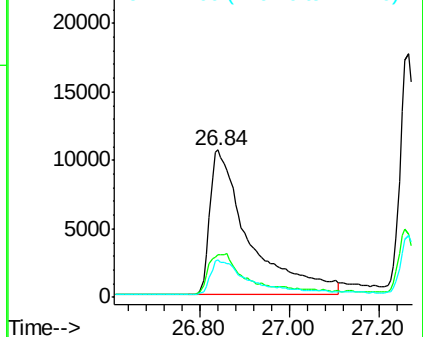
276 100

138 24.8 20.2 30.4

277 25.1 19.6 29.4



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.40 min Scan# 4362

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

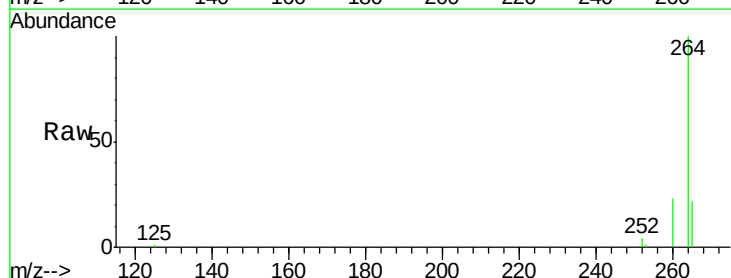
Tgt Ion:264 Resp: 91981

Ion Ratio Lower Upper

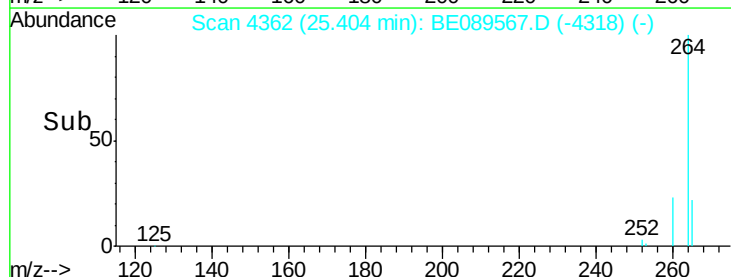
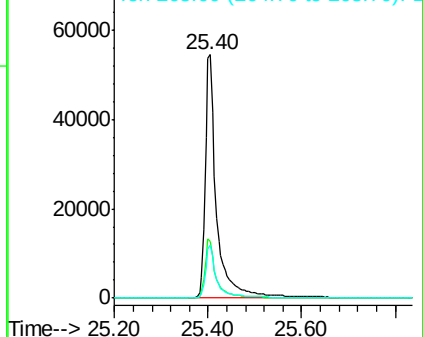
264 100

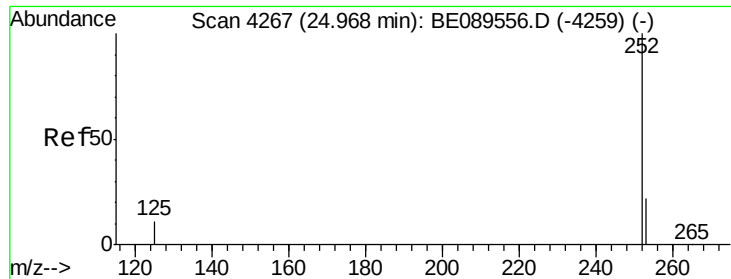
260 23.5 18.7 28.1

265 21.8 16.8 25.2



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

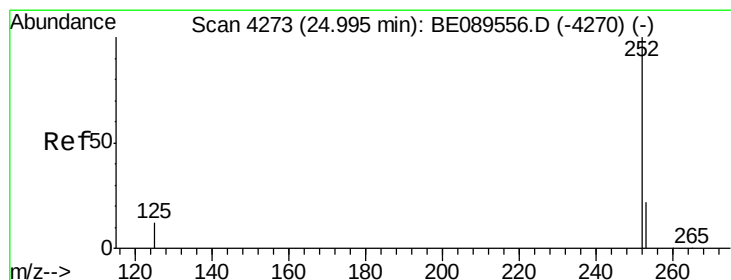
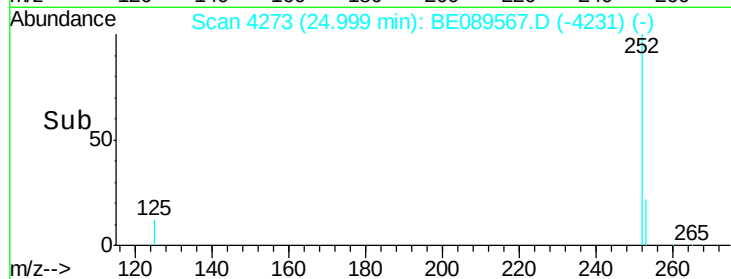
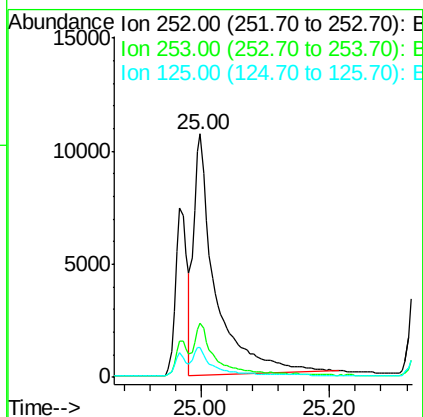
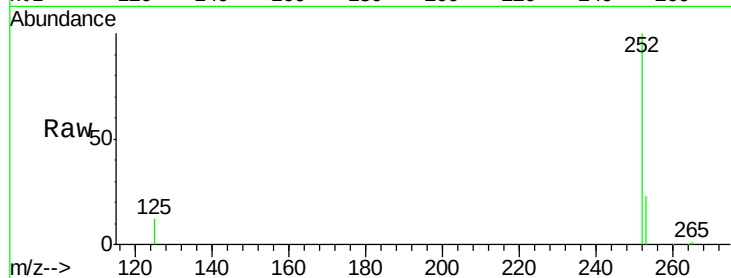




#23  
Benzo(b)fluoranthene  
Concen: 1.53 ng  
RT: 25.00 min Scan# 4273  
Delta R.T. 0.03 min  
Lab File: BE089567.D  
Acq: 11 Feb 2015 2:56

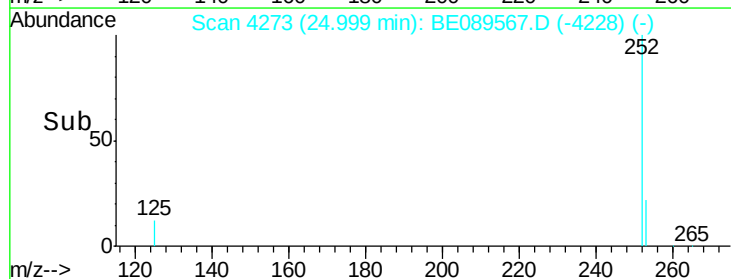
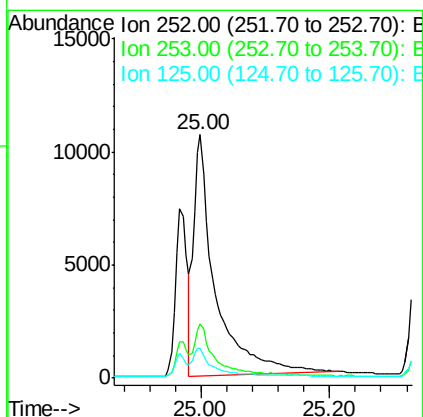
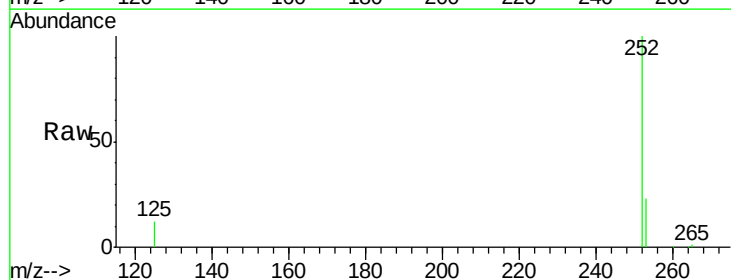
Instrument :  
BNA\_E  
LabSampleId :  
SSTDCCC001

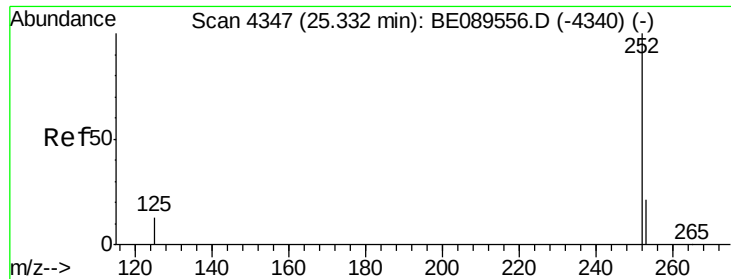
Tgt Ion: 252 Resp: 24983  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.8 26.8  
125 12.4 9.3 13.9



#24  
Benzo(k)fluoranthene  
Concen: 1.11 ng  
RT: 25.00 min Scan# 4273  
Delta R.T. 0.00 min  
Lab File: BE089567.D  
Acq: 11 Feb 2015 2:56

Tgt Ion: 252 Resp: 24983  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.5 26.3  
125 12.4 9.6 14.4





#25

Benzo(a)pyrene

Concen: 0.77 ng

RT: 25.34 min Scan# 4347

Delta R.T. 0.00 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

Instrument :

BNA\_E

LabSampleId :

SSTDCCC001

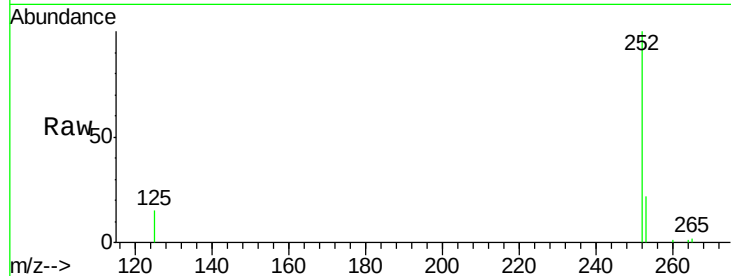
Tgt Ion: 252 Resp: 11346

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

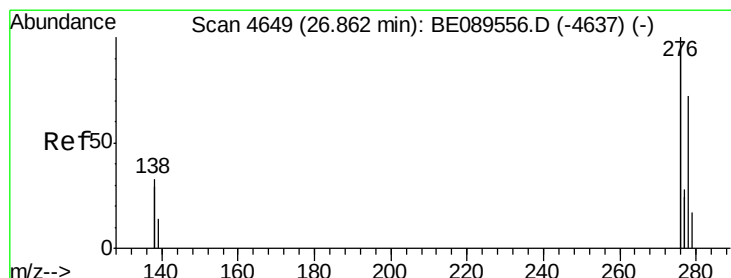
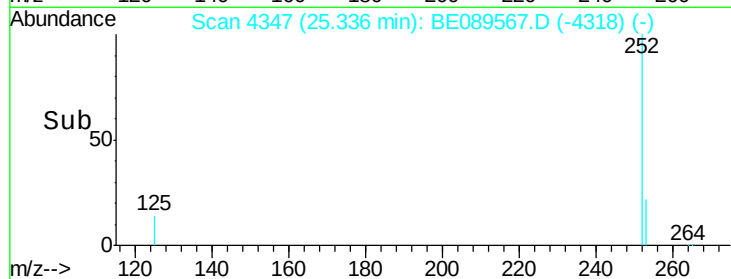
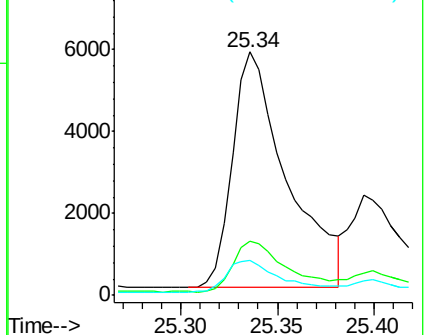
125 14.5 11.1 16.7



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.70 ng

RT: 26.87 min Scan# 4649

Delta R.T. 0.01 min

Lab File: BE089567.D

Acq: 11 Feb 2015 2:56

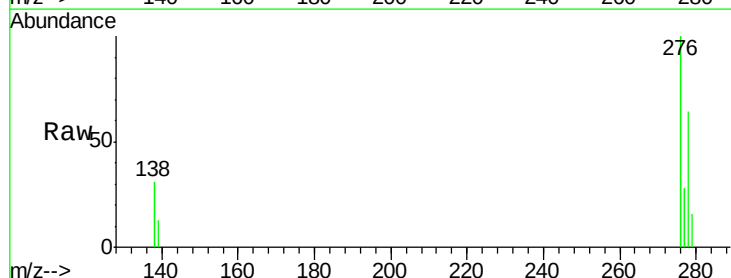
Tgt Ion: 278 Resp: 12780

Ion Ratio Lower Upper

278 100

139 20.1 16.1 24.1

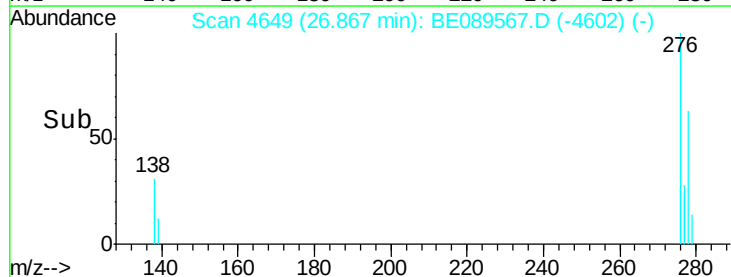
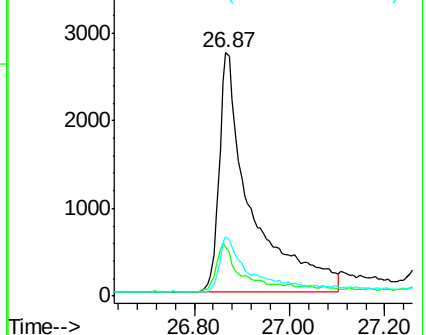
279 24.4 19.6 29.4

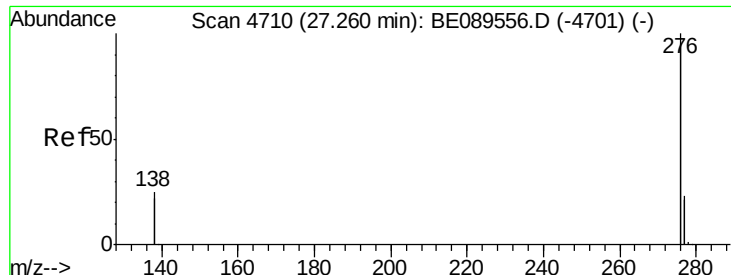


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

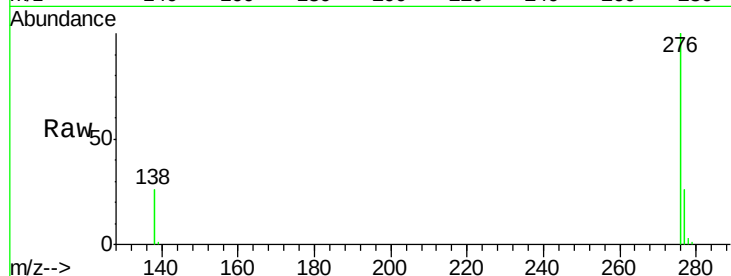




#27  
 Benzo(g,h,i)perylene  
 Concen: 0.87 ng  
 RT: 27.26 min Scan# 4710  
 Delta R.T. 0.01 min  
 Lab File: BE089567.D  
 Acq: 11 Feb 2015 2:56

Instrument :  
 BNA\_E  
 LabSampleId :  
 SSTDCCC001

Tgt Ion: 276 Resp: 66227  
 Ion Ratio Lower Upper  
 276 100  
 277 25.6 18.7 28.1  
 138 25.9 19.7 29.5



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

