

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022817\  
 Data File : BE092769.D  
 Acq On : 28 Feb 2017 18:55  
 Operator : SJ/MA  
 Sample : I2006-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS043055

Quant Time: Mar 01 08:07:24 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE021517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 15 17:05:20 2017  
 Response via : Initial Calibration

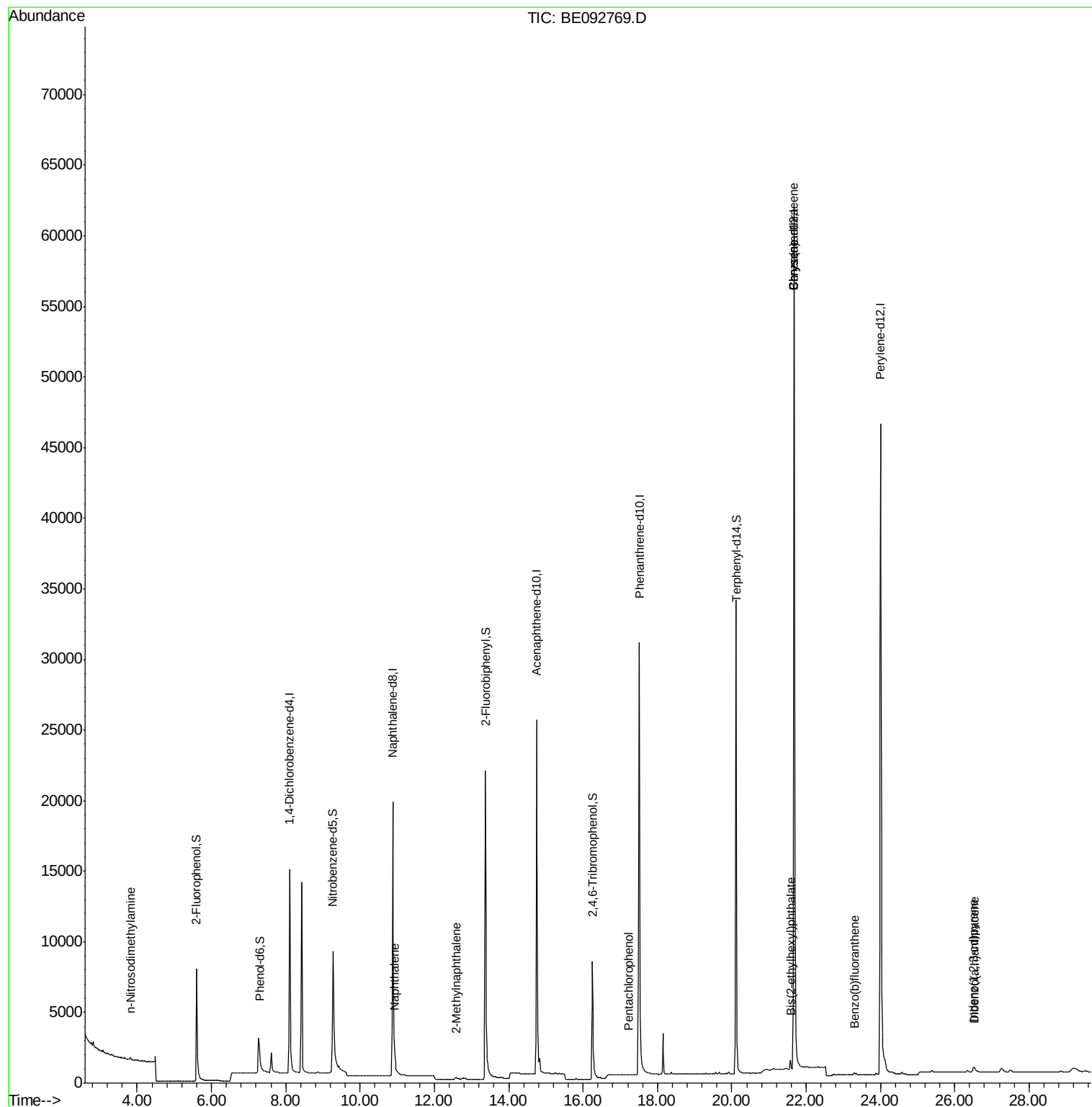
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.10  | 152  | 8468     | 5.00      | ng    | -0.02    |
| 7) Naphthalene-d8              | 10.88 | 136  | 35199    | 5.00      | ng    | -0.02    |
| 12) Acenaphthene-d10           | 14.75 | 164  | 19804    | 5.00      | ng    | -0.02    |
| 18) Phenanthrene-d10           | 17.51 | 188  | 51479    | 5.00      | ng    | 0.00     |
| 24) Chrysene-d12               | 21.68 | 240  | 79121    | 5.00      | ng    | -0.02    |
| 31) Perylene-d12               | 24.01 | 264  | 73123    | 5.00      | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.60  | 112  | 8102     | 4.92      | ng    | -0.03    |
| 5) Phenol-d6                   | 7.29  | 99   | 5447     | 2.69      | ng    | -0.02    |
| 8) Nitrobenzene-d5             | 9.27  | 82   | 12680    | 5.33      | ng    | -0.04    |
| 13) 2,4,6-Tribromophenol       | 16.25 | 330  | 7154     | 17.02     | ng    | -0.03    |
| 14) 2-Fluorobiphenyl           | 13.38 | 172  | 29891    | 6.19      | ng    | -0.02    |
| 26) Terphenyl-d14              | 20.12 | 244  | 57965    | 5.74      | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 2) 1,4-Dioxane                 | 3.56  | 88   | 3        | Below Cal | #     | 19       |
| 3) n-Nitrosodimethylamine      | 3.83  | 42   | 53       | 0.24 ng   | #     | 2        |
| 9) Naphthalene                 | 10.93 | 128  | 623      | 0.08 ng   | #     | 68       |
| 11) 2-Methylnaphthalene        | 12.58 | 142  | 153      | 0.03 ng   | #     | 82       |
| 20) Pentachlorophenol          | 17.23 | 266  | 23       | 0.29 ng   | #     | 74       |
| 27) Benzo(a)anthracene         | 21.68 | 228  | 2051     | 0.03 ng   | #     | 74       |
| 28) Chrysene                   | 21.68 | 228  | 2057     | 0.02 ng   | #     | 64       |
| 29) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 910      | 0.14 ng   | #     | 74       |
| 30) Indeno(1,2,3-cd)pyrene     | 26.51 | 276  | 1147     | 0.04 ng   | #     | 99       |
| 32) Benzo(b)fluoranthene       | 23.30 | 252  | 226      | 0.04 ng   | #     | 1        |
| 35) Dibenzo(a,h)anthracene     | 26.53 | 278  | 236      | 0.02 ng   | #     | 1        |

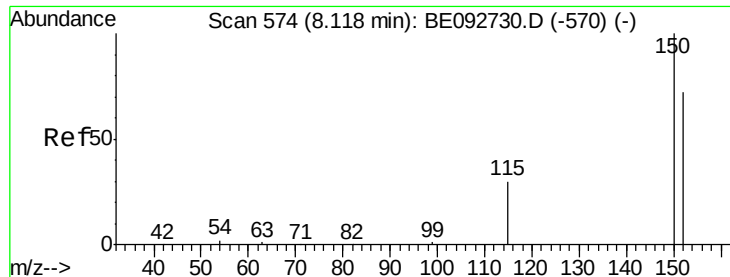
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022817\  
Data File : BE092769.D  
Acq On : 28 Feb 2017 18:55  
Operator : SJ/MA  
Sample : I2006-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
CPS043055

Quant Time: Mar 01 08:07:24 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE021517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 15 17:05:20 2017  
Response via : Initial Calibration



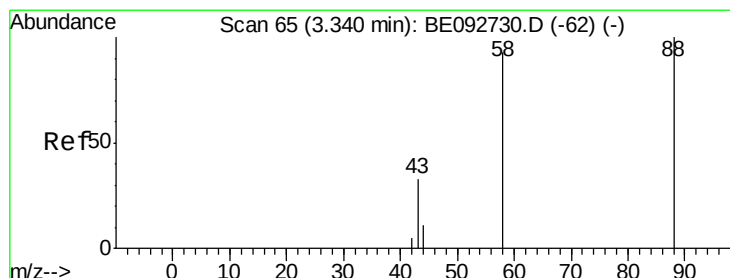
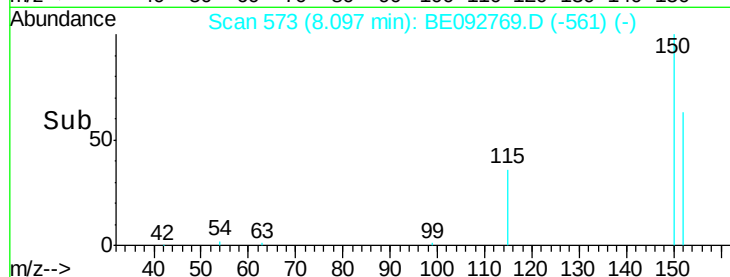
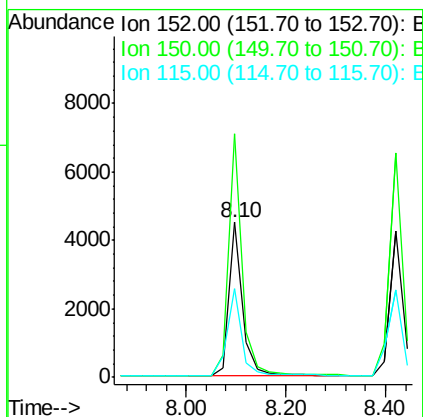
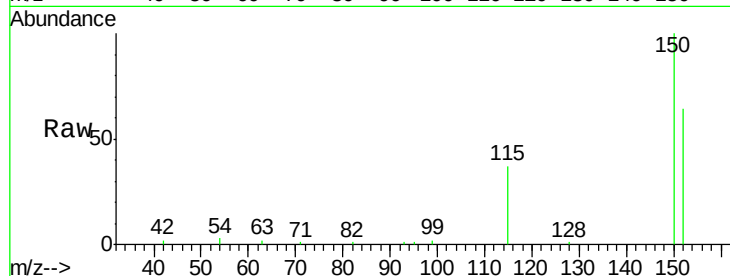


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.10 min Scan# 573  
Delta R.T. -0.02 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

Instrument :  
BNA\_E  
ClientSampleId :  
CPS043055

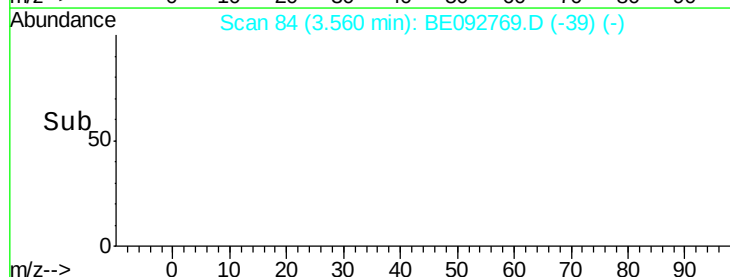
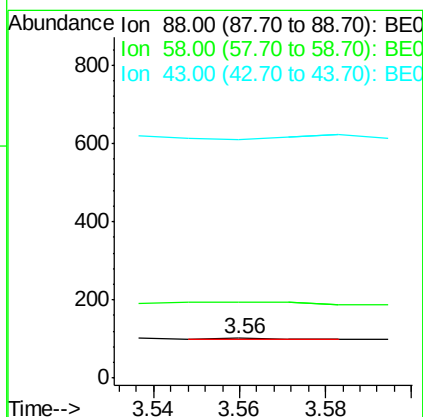
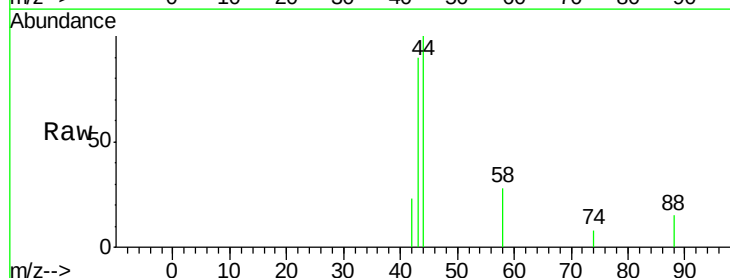
Tot Ion:152 Resp: 8468  
Ion Ratio Lower Upper  
152 100  
150 157.4 106.0 159.0  
115 57.7 31.2 46.8#

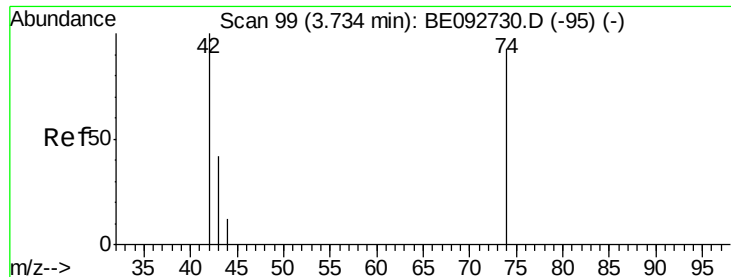


#2

1,4-Dioxane  
Concen: Below Cal  
RT: 3.56 min Scan# 84  
Delta R.T. 0.22 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

Tgt Ion: 88 Resp: 3  
Ion Ratio Lower Upper  
88 100  
58 0.0 63.6 95.4#  
43 0.0 28.0 42.0#



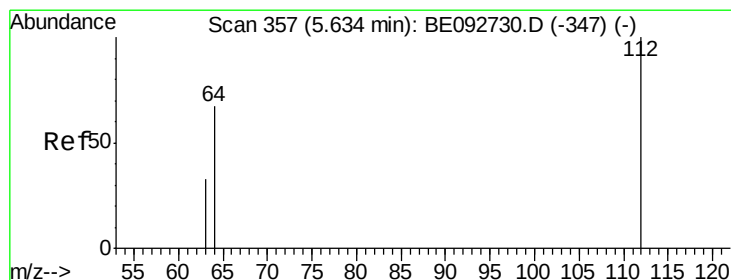
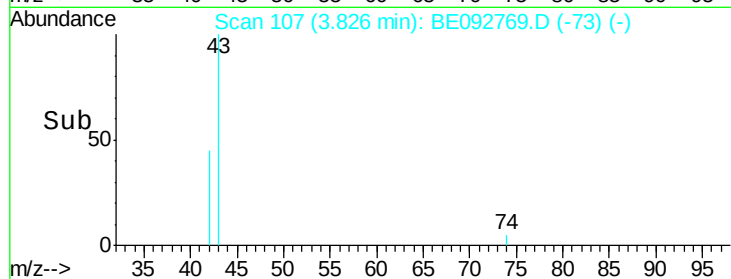
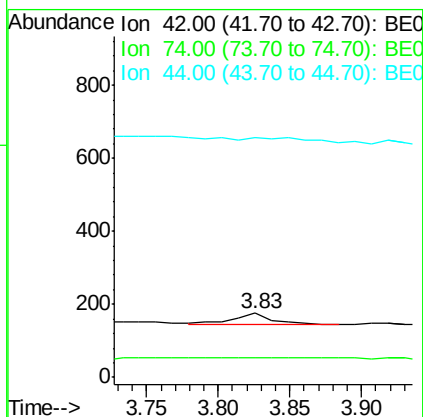
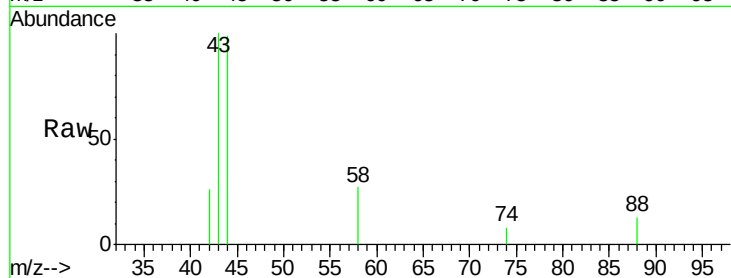


#3

n-Nitrosodimethylamine  
 Concen: 0.24 ng  
 RT: 3.83 min Scan# 107  
 Delta R.T. 0.09 min  
 Lab File: BE092769.D  
 Acq: 28 Feb 2017 18:55

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS043055

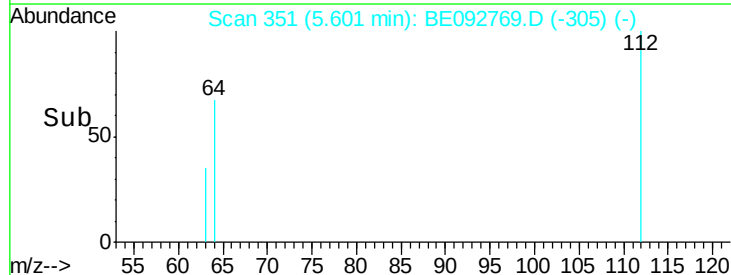
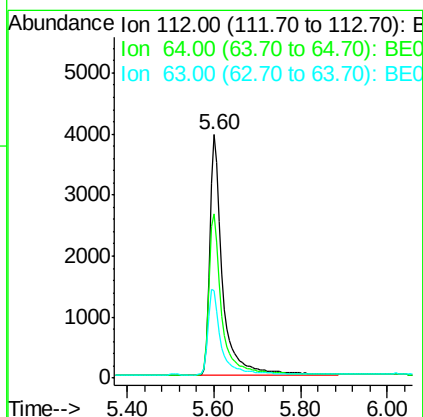
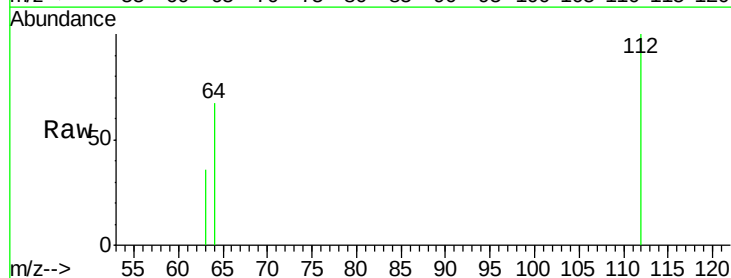
Tot Ion: 42 Resp: 53  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 86.0 129.0#  
 44 0.0 5.1 7.7#

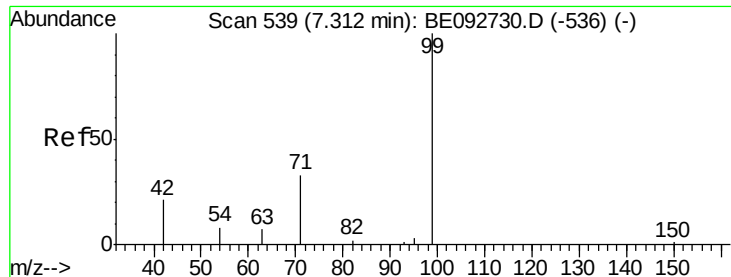


#4

2-Fluorophenol  
 Concen: 4.92 ng  
 RT: 5.60 min Scan# 351  
 Delta R.T. -0.03 min  
 Lab File: BE092769.D  
 Acq: 28 Feb 2017 18:55

Tgt Ion: 112 Resp: 8102  
 Ion Ratio Lower Upper  
 112 100  
 64 67.4 53.5 80.3  
 63 36.3 27.9 41.9





#5

Phenol-d6

Concen: 2.69 ng

RT: 7.29 min Scan# 538

Delta R.T. -0.02 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Instrument :

BNA\_E

ClientSampleId :

CPS043055

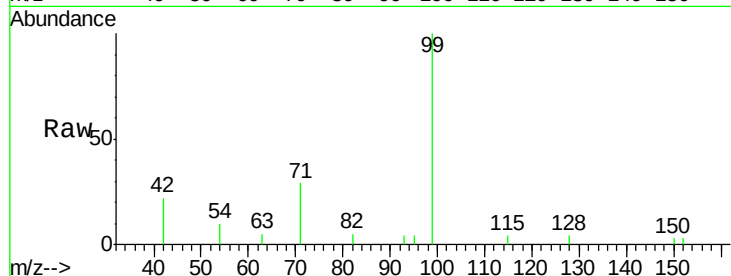
Tot Ion: 99 Resp: 5447

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

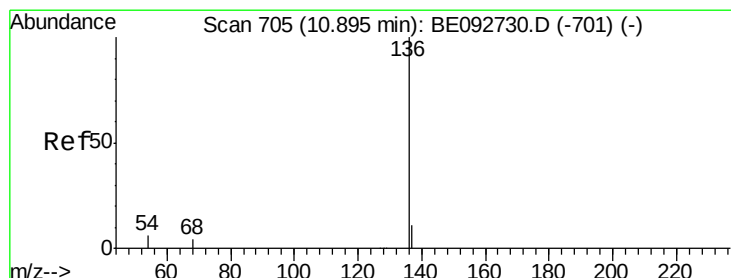
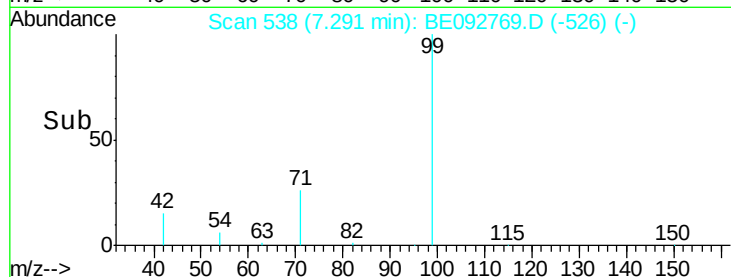
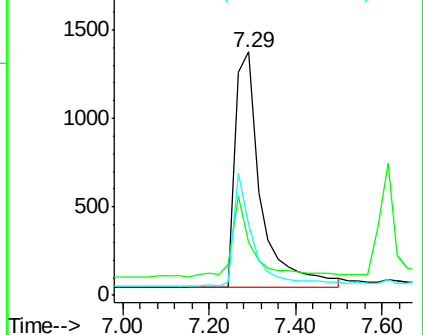
71 0.0 30.6 45.8#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.88 min Scan# 704

Delta R.T. -0.02 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Tgt Ion: 136 Resp: 35199

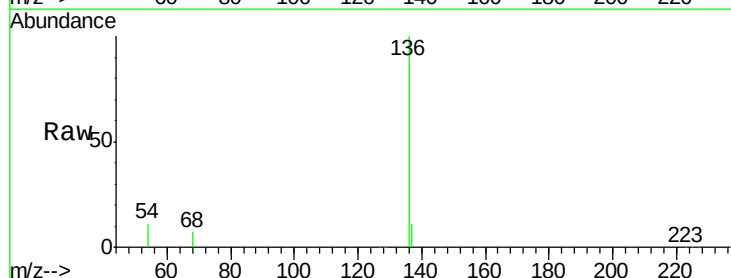
Ion Ratio Lower Upper

136 100

137 10.6 8.2 12.4

54 10.6 9.6 14.4

68 7.5 6.7 10.1

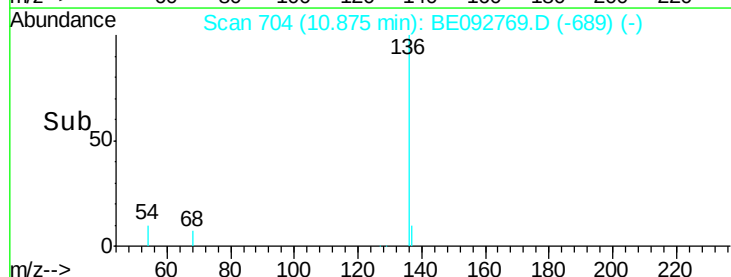
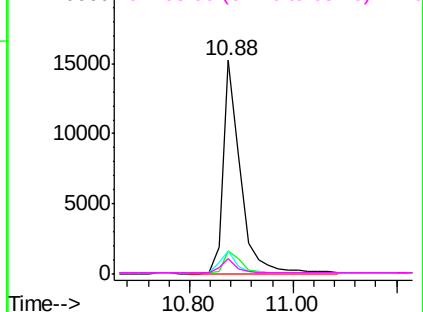


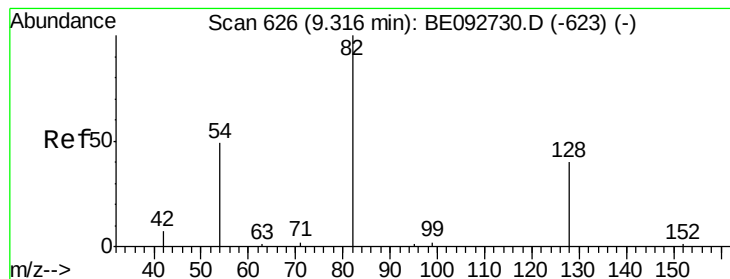
Abundance Ion 136.00 (135.70 to 136.70): E

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: 5.33 ng

RT: 9.27 min Scan# 624

Delta R.T. -0.04 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Instrument :

BNA\_E

ClientSampleId :

CPS043055

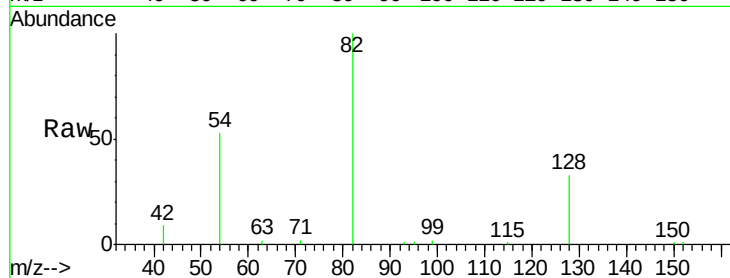
Tot Ion: 82 Resp: 12680

Ion Ratio Lower Upper

82 100

128 32.7 39.0 58.4#

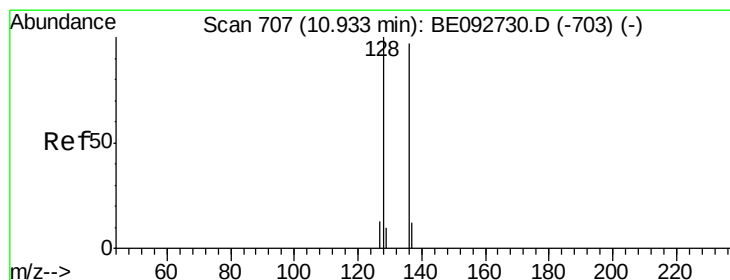
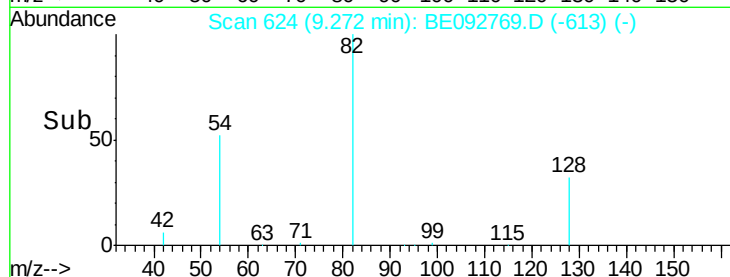
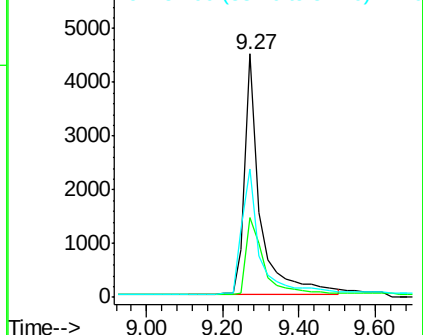
54 52.5 44.8 67.2



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#9

Naphthalene

Concen: 0.08 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

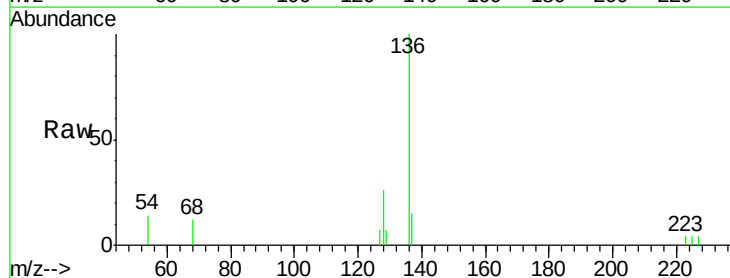
Tgt Ion: 128 Resp: 623

Ion Ratio Lower Upper

128 100

129 27.5 11.2 16.8#

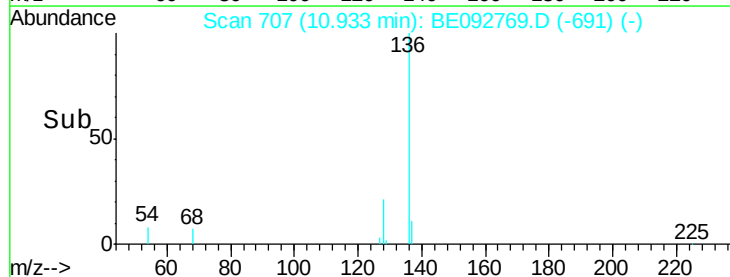
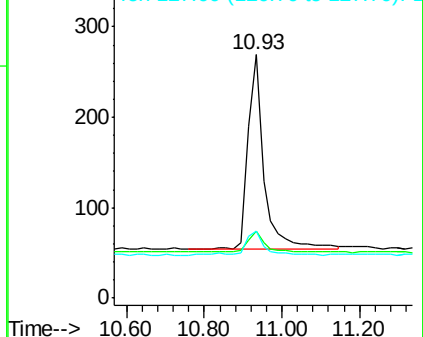
127 27.5 11.6 17.4#

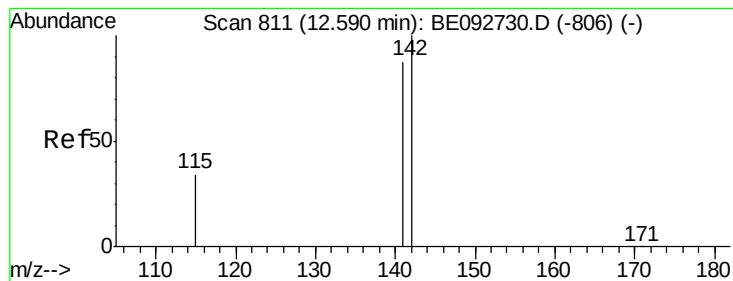


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene

Concen: 0.03 ng

RT: 12.58 min Scan# 810

Delta R.T. -0.01 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Instrument :

BNA\_E

ClientSampleId :

CPS043055

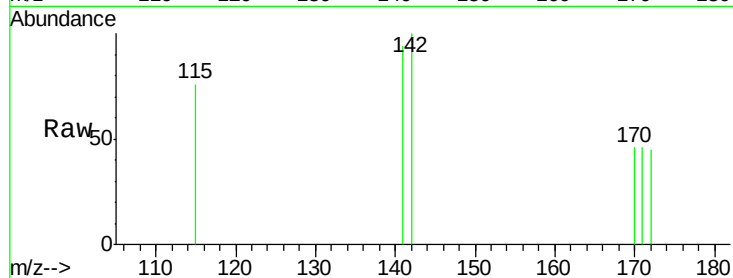
Tot Ion:142 Resp: 153

Ion Ratio Lower Upper

142 100

141 93.9 73.7 110.5

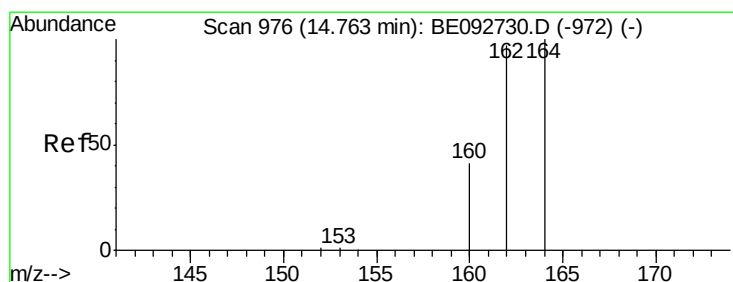
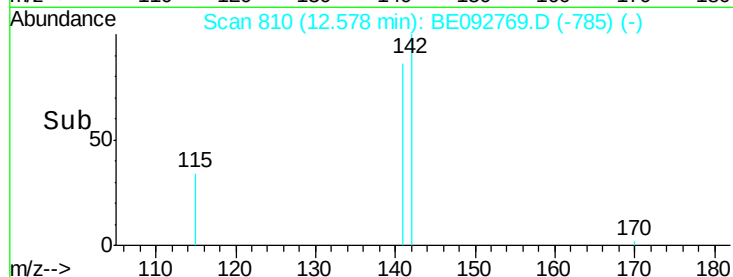
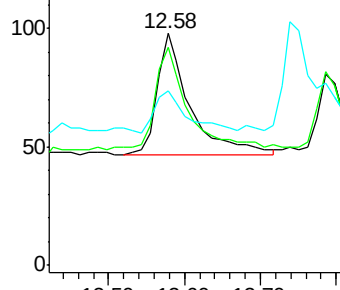
115 75.5 34.0 51.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.75 min Scan# 976

Delta R.T. -0.02 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

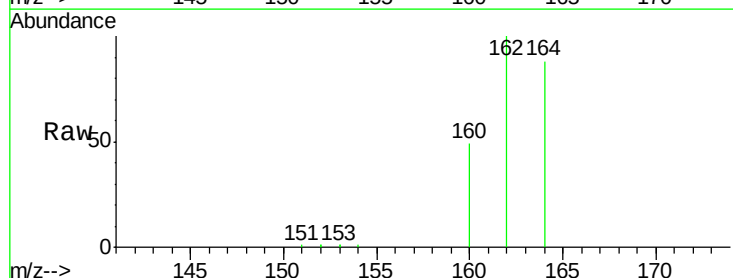
Tgt Ion:164 Resp: 19804

Ion Ratio Lower Upper

164 100

162 113.4 71.4 107.0#

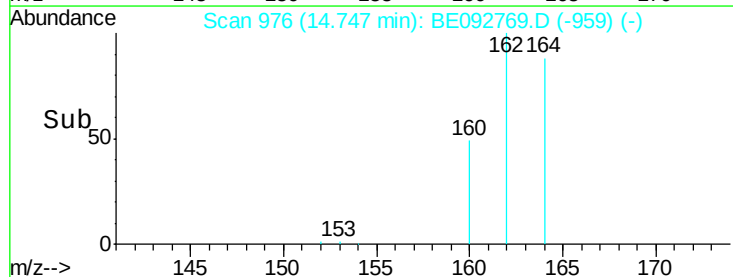
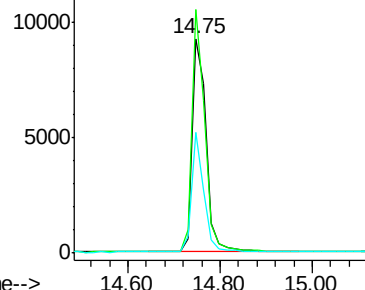
160 56.0 27.4 41.2#

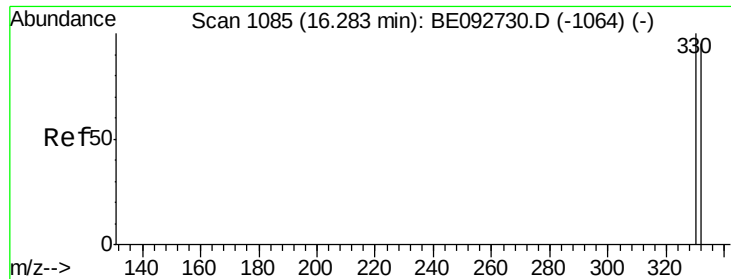


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

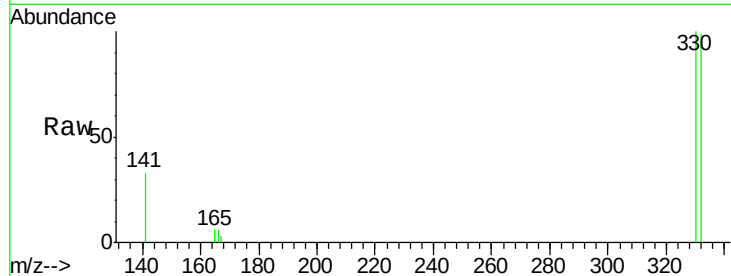




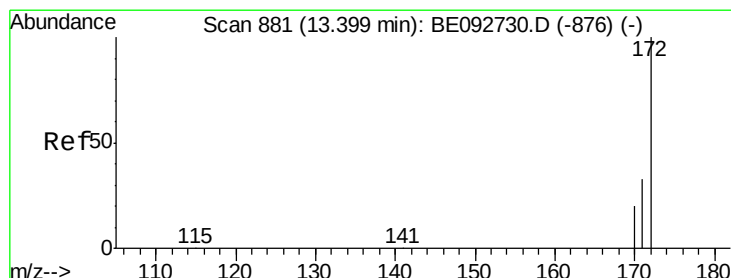
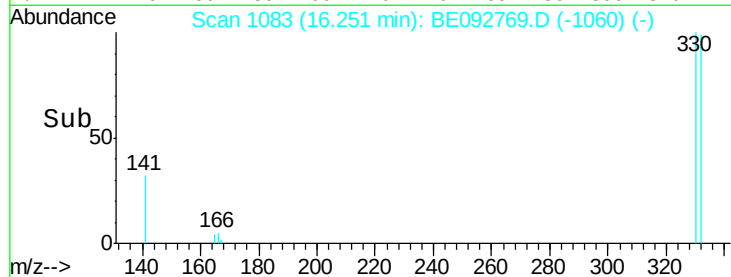
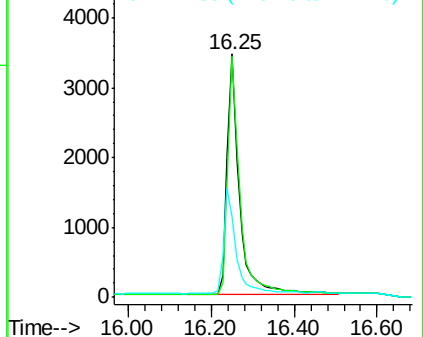
#13  
 2,4,6-Tribromophenol  
 Concen: 17.02 ng  
 RT: 16.25 min Scan# 1083  
 Delta R.T. -0.03 min  
 Lab File: BE092769.D  
 Acq: 28 Feb 2017 18:55

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS043055

Tot Ion:330 Resp: 7154  
 Ion Ratio Lower Upper  
 330 100  
 332 97.9 75.4 113.0  
 141 44.0 31.0 46.6

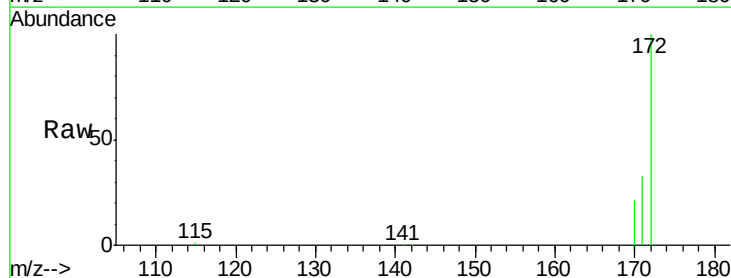


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

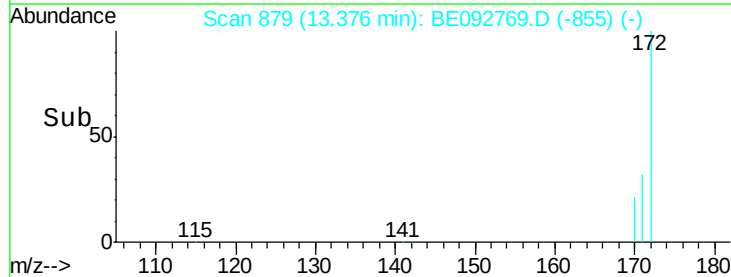
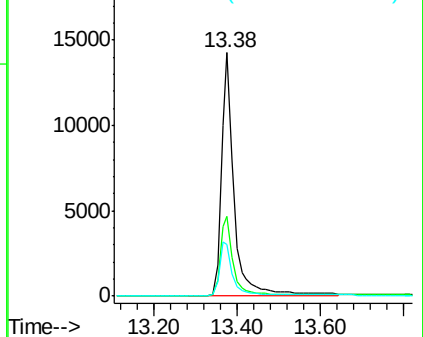


#14  
 2-Fluorobiphenyl  
 Concen: 6.19 ng  
 RT: 13.38 min Scan# 879  
 Delta R.T. -0.02 min  
 Lab File: BE092769.D  
 Acq: 28 Feb 2017 18:55

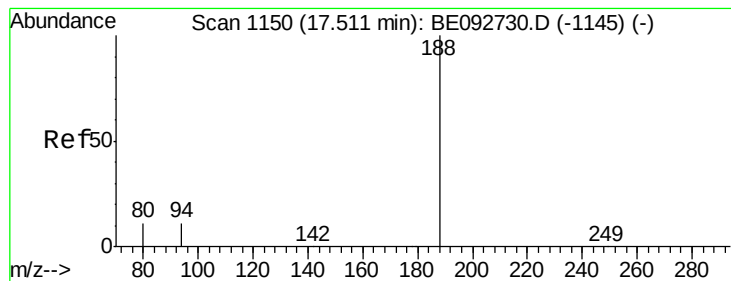
Tgt Ion:172 Resp: 29891  
 Ion Ratio Lower Upper  
 172 100  
 171 32.5 30.1 45.1  
 170 21.2 21.8 32.6#



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







#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.51 min Scan# 1151

Delta R.T. -0.00 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Instrument :

BNA\_E

ClientSampleId :

CPS043055

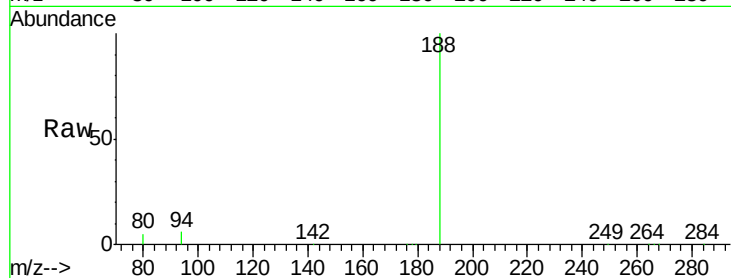
Tot Ion:188 Resp: 51479

Ion Ratio Lower Upper

188 100

94 5.8 3.2 4.8#

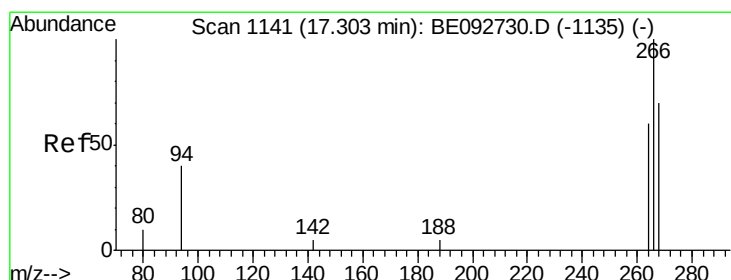
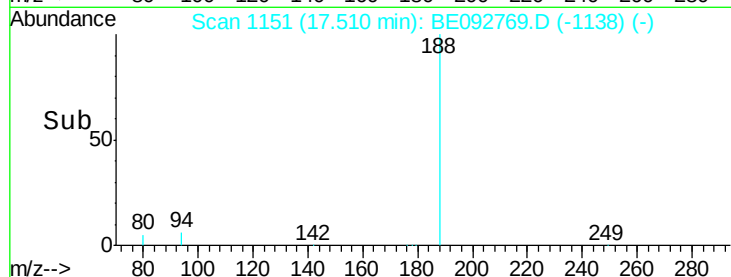
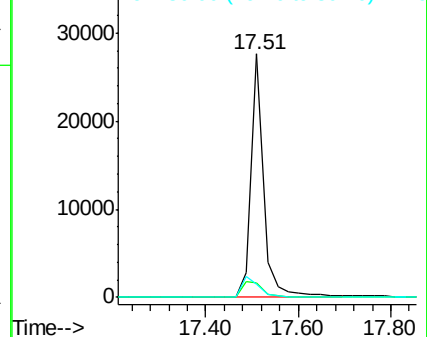
80 5.3 2.6 3.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

Pentachlorophenol

Concen: 0.29 ng

RT: 17.23 min Scan# 1139

Delta R.T. -0.07 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

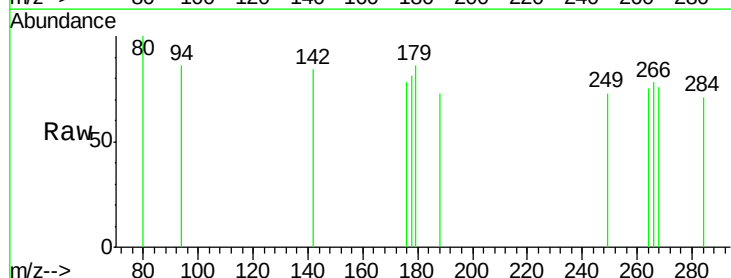
Tgt Ion:266 Resp: 23

Ion Ratio Lower Upper

266 100

268 98.0 62.5 93.7#

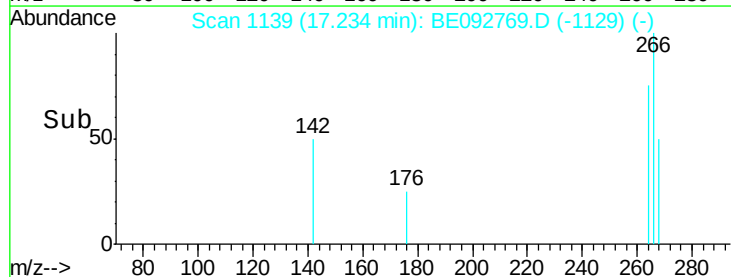
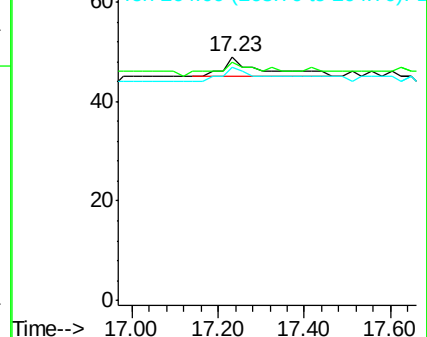
264 95.9 57.2 85.8#

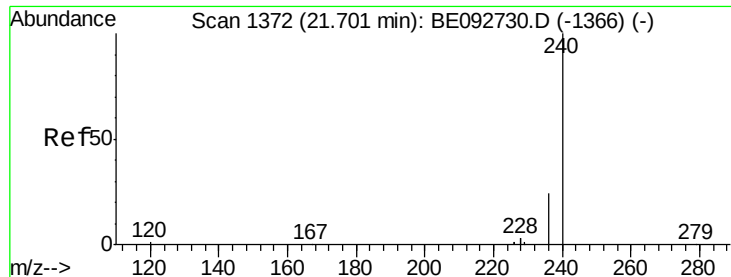


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

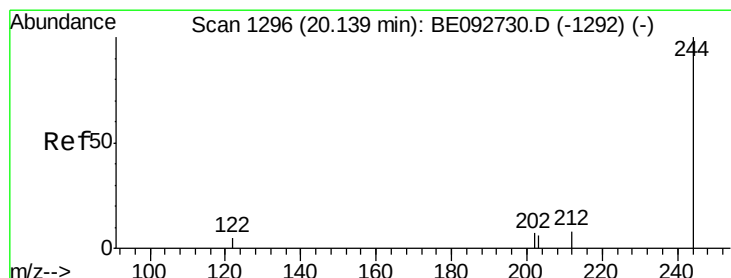
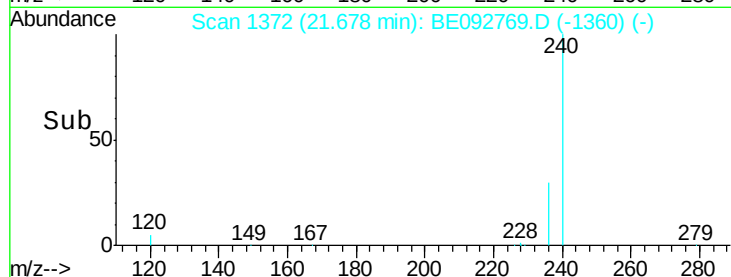
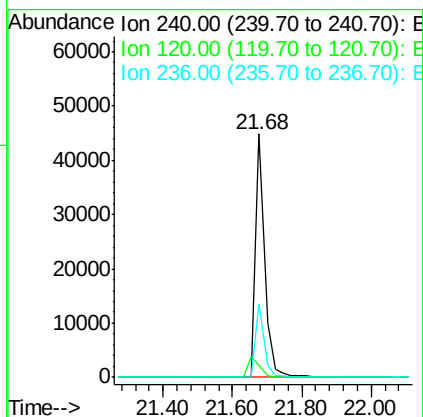
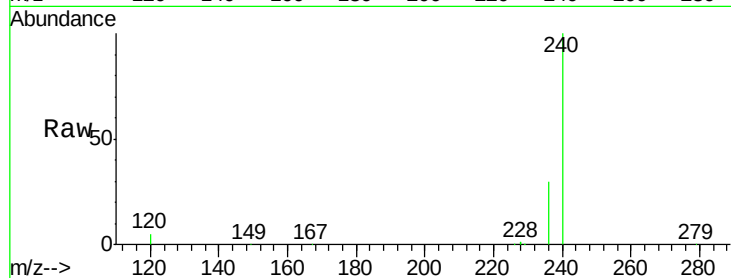




#24  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.68 min Scan# 1372  
Delta R.T. -0.02 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

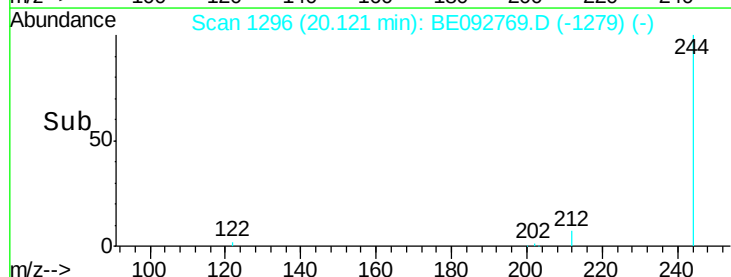
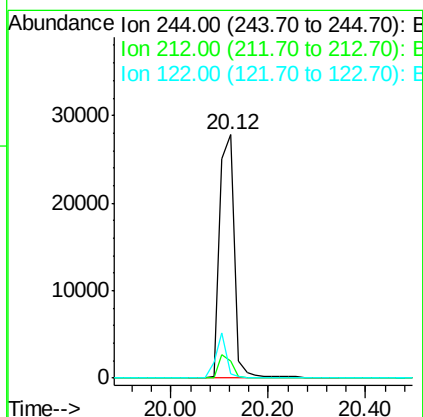
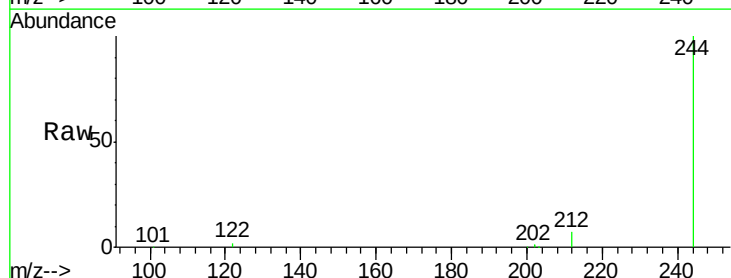
Instrument :  
BNA\_E  
ClientSampleId :  
CPS043055

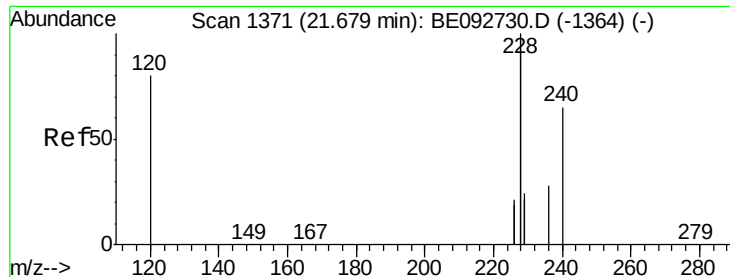
Tot Ion:240 Resp: 79121  
Ion Ratio Lower Upper  
240 100  
120 4.8 2.6 4.0#  
236 30.3 24.6 37.0



#26  
Terphenyl-d14  
Concen: 5.74 ng  
RT: 20.12 min Scan# 1296  
Delta R.T. -0.02 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

Tgt Ion:244 Resp: 57965  
Ion Ratio Lower Upper  
244 100  
212 6.9 6.7 10.1  
122 1.8 3.6 5.4#

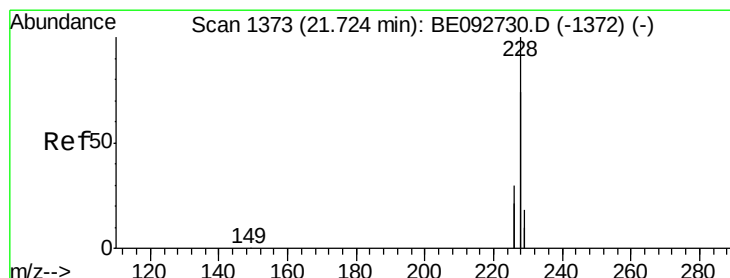
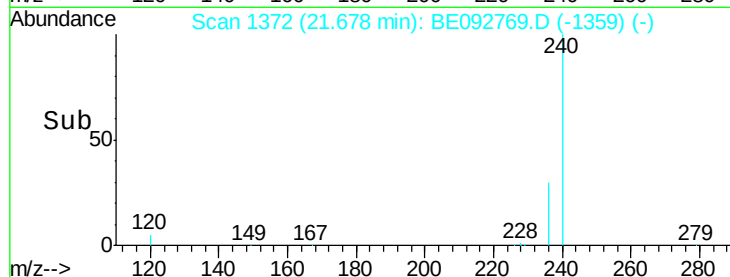
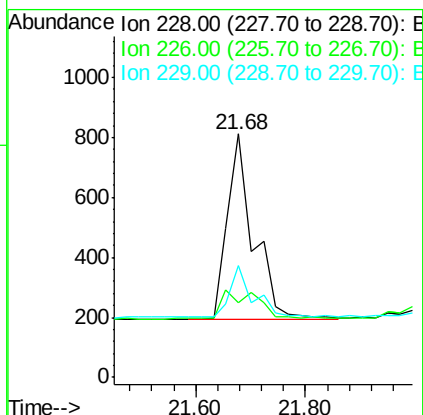
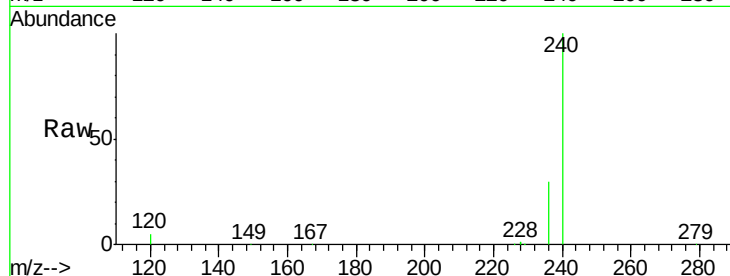




#27  
Benzo(a)anthracene  
Concen: 0.03 ng  
RT: 21.68 min Scan# 1372  
Delta R.T. -0.00 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

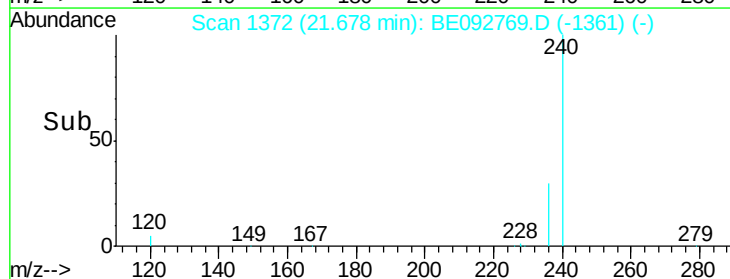
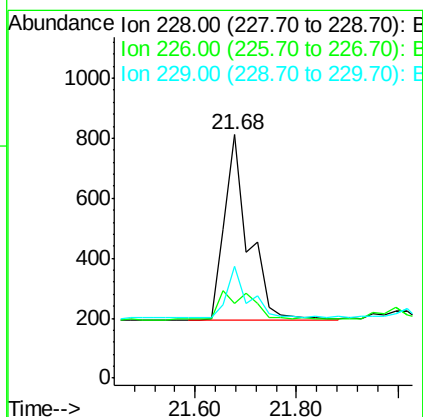
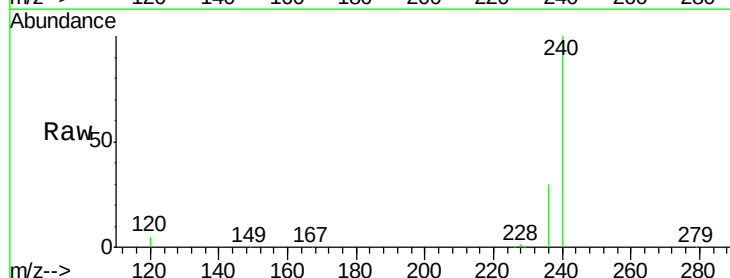
Instrument :  
BNA\_E  
ClientSampleId :  
CPS043055

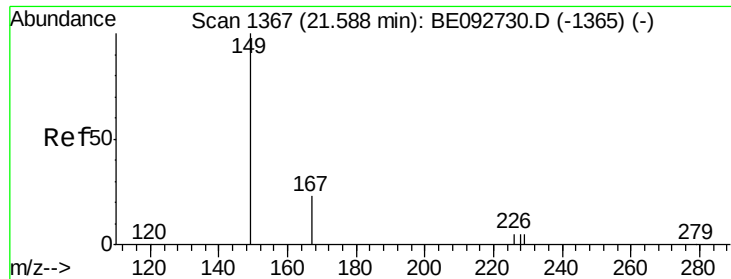
Tot Ion:228 Resp: 2051  
Ion Ratio Lower Upper  
228 100  
226 30.8 23.6 35.4  
229 45.8 13.3 19.9#



#28  
Chrysene  
Concen: 0.02 ng  
RT: 21.68 min Scan# 1372  
Delta R.T. -0.05 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

Tgt Ion:228 Resp: 2057  
Ion Ratio Lower Upper  
228 100  
226 30.8 36.3 54.5#  
229 45.8 10.6 16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.14 ng

RT: 21.59 min Scan# 1368

Delta R.T. 0.00 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Instrument :

BNA\_E

ClientSampleId :

CPS043055

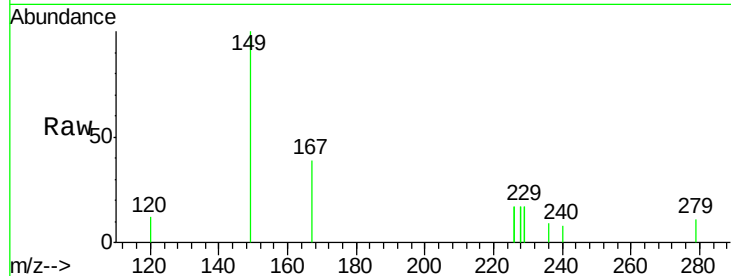
Tot Ion:149 Resp: 910

Ion Ratio Lower Upper

149 100

167 30.1 16.0 24.0#

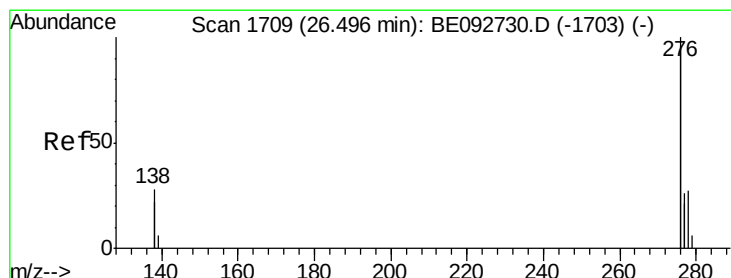
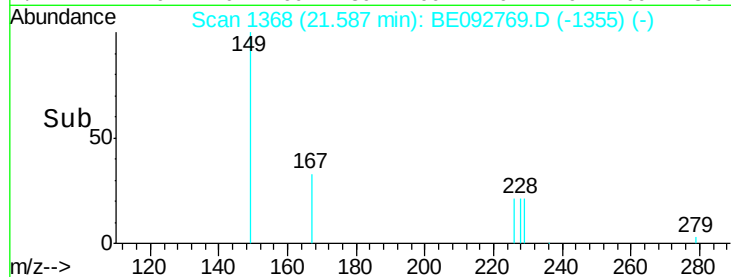
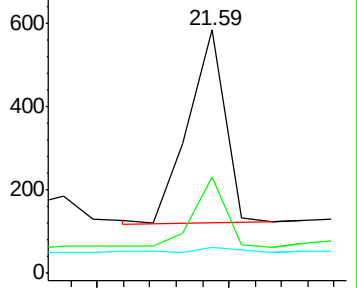
279 5.8 16.0 24.0#



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



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.04 ng

RT: 26.51 min Scan# 1711

Delta R.T. 0.02 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

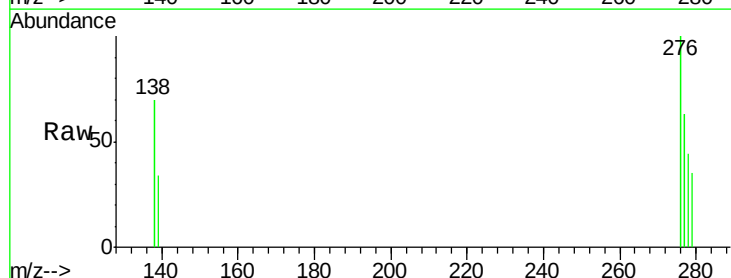
Tgt Ion:276 Resp: 1147

Ion Ratio Lower Upper

276 100

138 25.5 20.3 30.5

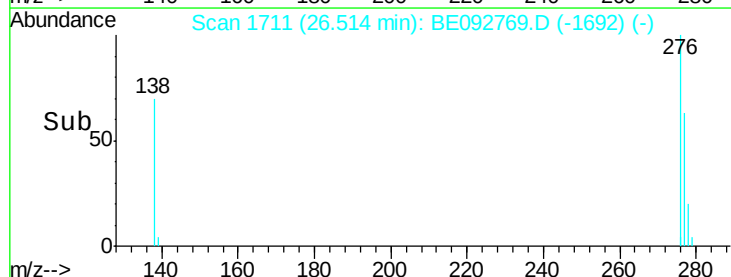
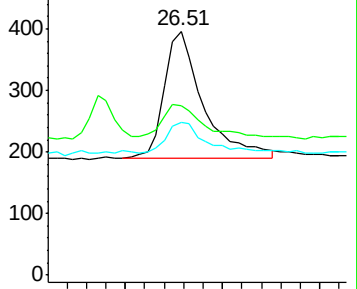
277 24.1 19.7 29.5

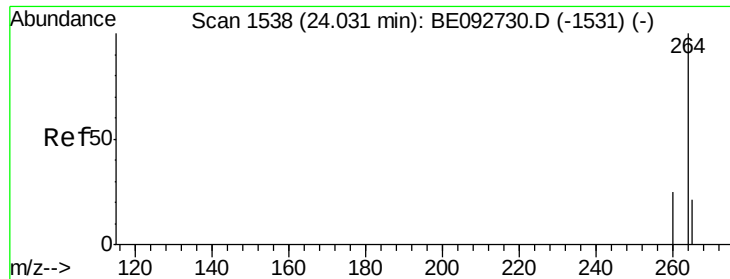


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.01 min Scan# 1537

Delta R.T. -0.02 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

Instrument :

BNA\_E

ClientSampleId :

CPS043055

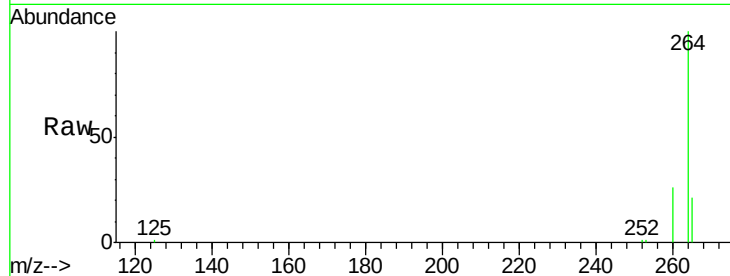
Tot Ion:264 Resp: 73123

Ion Ratio Lower Upper

264 100

260 25.8 20.1 30.1

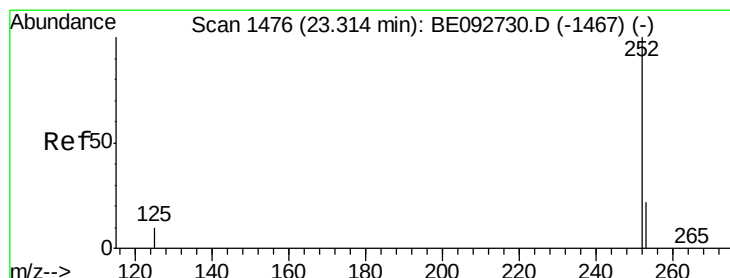
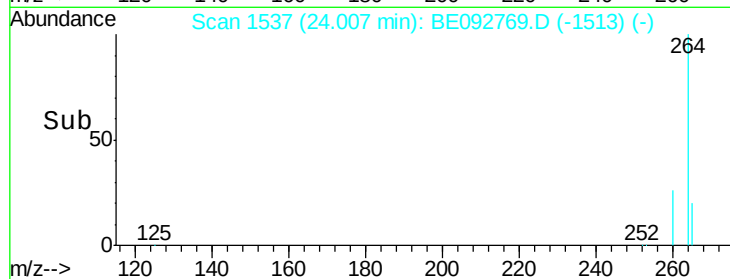
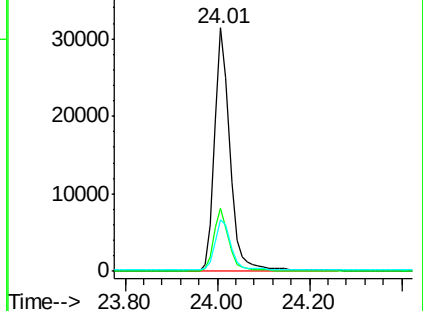
265 21.0 17.9 26.9



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



#32

Benzo(b)fluoranthene

Concen: 0.04 ng

RT: 23.30 min Scan# 1476

Delta R.T. -0.01 min

Lab File: BE092769.D

Acq: 28 Feb 2017 18:55

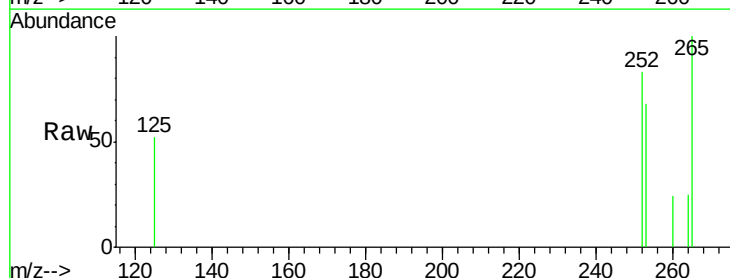
Tgt Ion:252 Resp: 226

Ion Ratio Lower Upper

252 100

253 81.3 18.7 28.1#

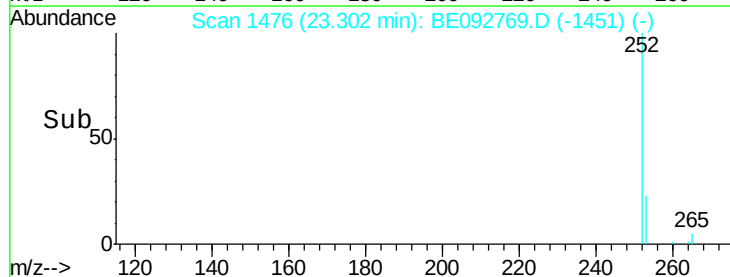
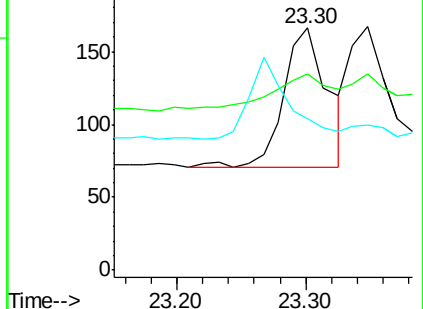
125 62.7 10.5 15.7#

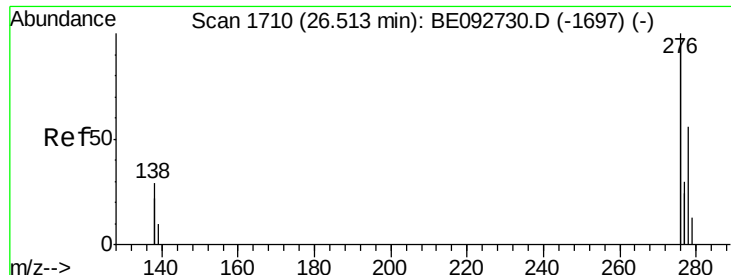


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#35  
Dibenzo(a,h)anthracene  
Concen: 0.02 ng  
RT: 26.53 min Scan# 1712  
Delta R.T. 0.02 min  
Lab File: BE092769.D  
Acq: 28 Feb 2017 18:55

Instrument :  
BNA\_E  
ClientSampleId :  
CPS043055

Tot Ion: 278 Resp: 236  
Ion Ratio Lower Upper  
278 100  
139 75.3 13.8 20.8#  
279 78.7 21.4 32.2#

