

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081015\  
 Data File : BE090410.D  
 Acq On : 10 Aug 2015 20:13  
 Operator : TP/UM  
 Sample : G3197-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 080515-D534-E-U-B

Quant Time: Aug 11 03:17:29 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 06 12:28:08 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.58  | 152  | 26310    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.34 | 136  | 124190   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.20 | 164  | 72525    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.95 | 188  | 167550   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.09 | 240  | 201591   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.40 | 264  | 191254   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.21  | 112  | 16203    | 4.10 | ng    | 0.00     |
| 5) Phenol-d6                | 6.77  | 99   | 14639    | 1.90 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.73  | 82   | 31269    | 3.17 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.69 | 330  | 17470    | 7.91 | ng    | -0.02    |
| 14) 2-Fluorobiphenyl        | 12.82 | 172  | 71386    | 3.58 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.55 | 244  | 131833   | 4.44 | ng    | -0.01    |

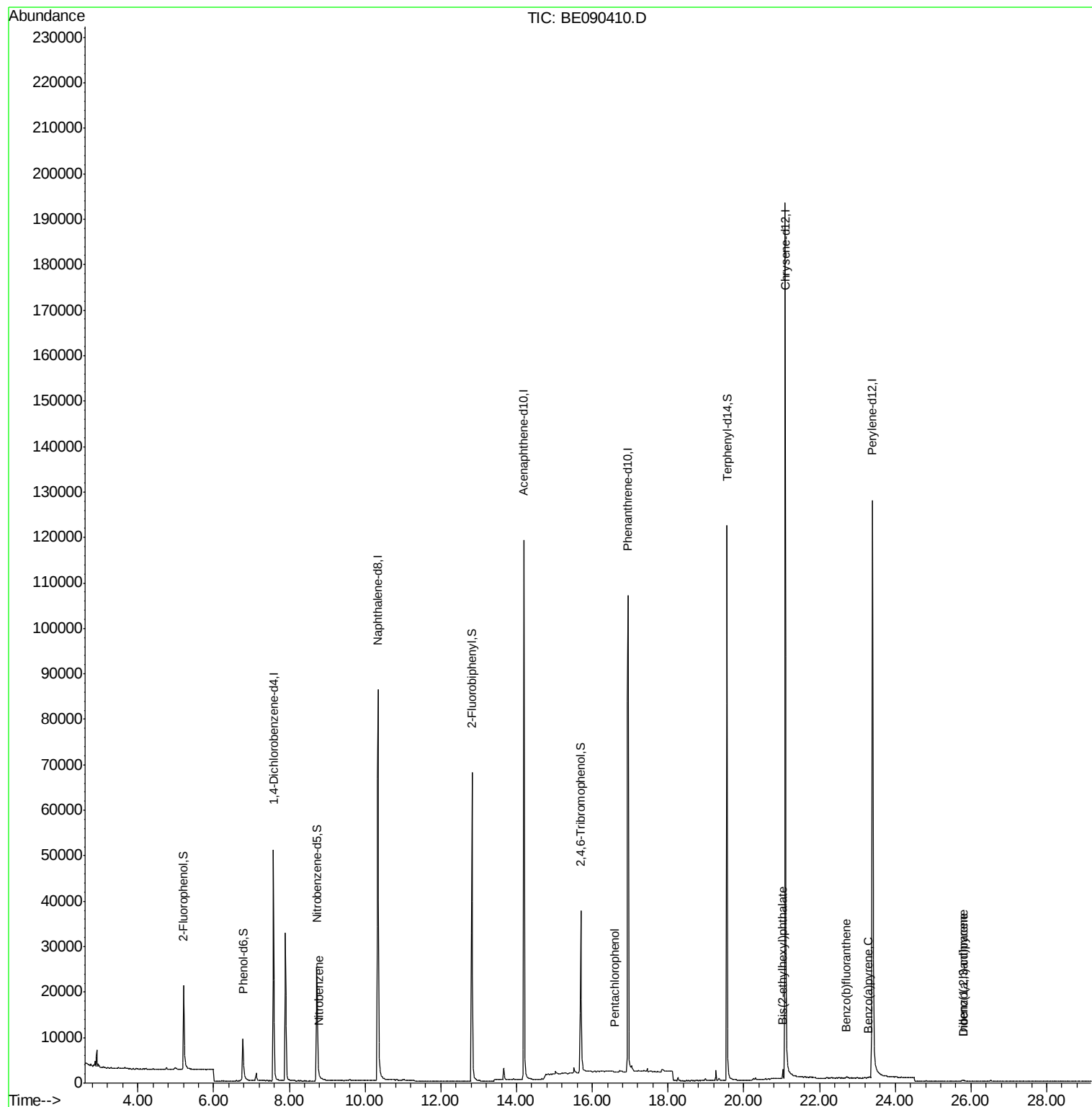
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.35  | 88   | 13       | Below Cal | #     | 15     |
| 8) Nitrobenzene                | 8.78  | 77   | 18       | 0.21 ng   | #     | 80     |
| 10) Hexachlorobutadiene        | 10.65 | 225  | 1        | Below Cal | #     | 19     |
| 21) Pentachlorophenol          | 16.60 | 266  | 16       | 0.10 ng   | #     | 62     |
| 30) Bis(2-ethylhexyl)phthalate | 21.03 | 149  | 1832     | 0.28 ng   | #     | 99     |
| 31) Indeno(1,2,3-cd)pyrene     | 25.79 | 276  | 273      | 0.26 ng   | #     | 59     |
| 33) Benzo(b)fluoranthene       | 22.70 | 252  | 289      | 0.20 ng   | #     | 1      |
| 35) Benzo(a)pyrene             | 23.29 | 252  | 187      | 0.23 ng   | #     | 1      |
| 36) Dibenzo(a,h)anthracene     | 25.80 | 278  | 64       | 0.29 ng   | #     | 1      |

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

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080515-D534-E-U-B

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QLast Update : Thu Aug 06 12:28:08 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.01 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

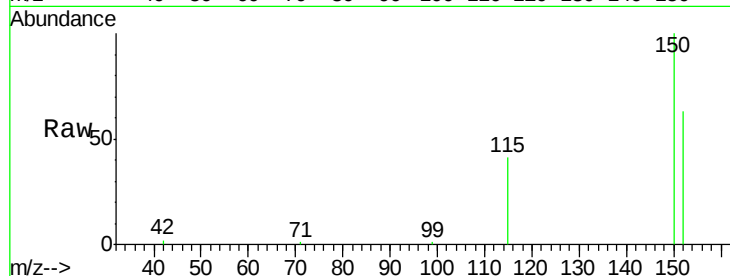
Tgt Ion:152 Resp: 26310

Ion Ratio Lower Upper

152 100

150 159.2 123.0 184.4

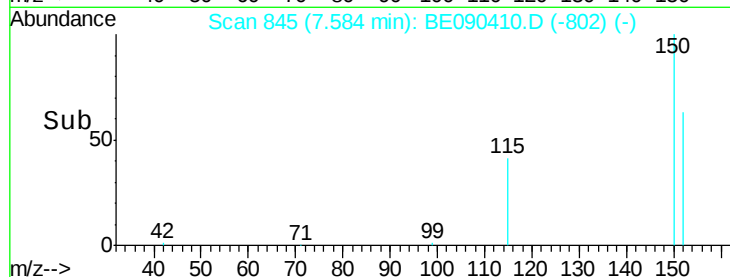
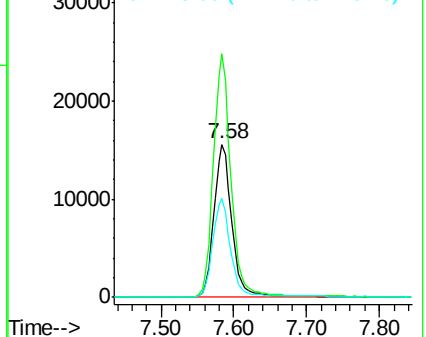
115 65.0 48.9 73.3



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: Below Cal

RT: 3.35 min Scan# 110

Delta R.T. 0.15 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

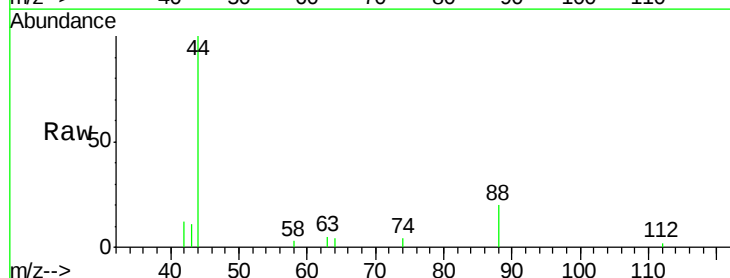
Tgt Ion: 88 Resp: 13

Ion Ratio Lower Upper

88 100

58 0.0 70.0 105.0#

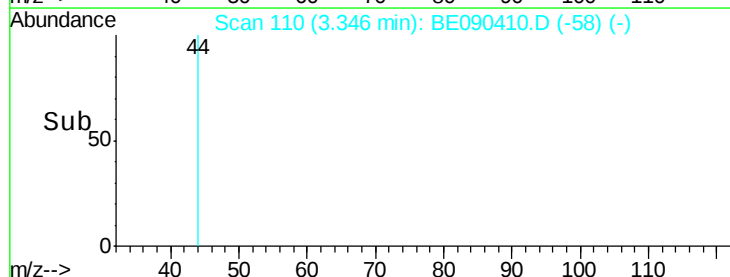
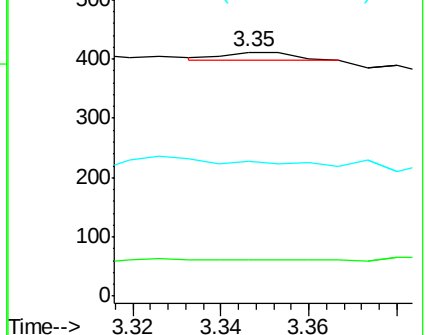
43 0.0 28.4 42.6#



Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 4.10 ng

RT: 5.21 min Scan# 385

Delta R.T. -0.00 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

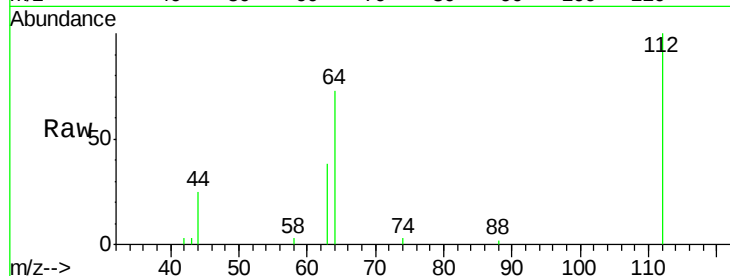
Tgt Ion: 112 Resp: 16203

Ion Ratio Lower Upper

112 100

64 70.7 37.1 55.7#

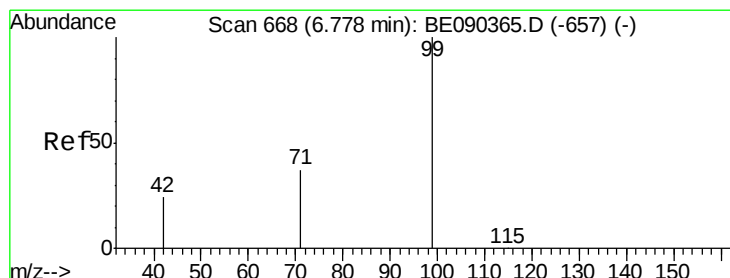
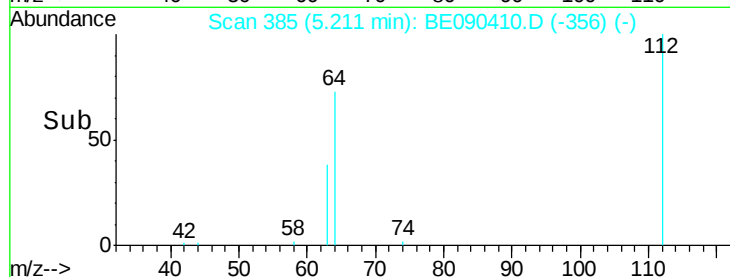
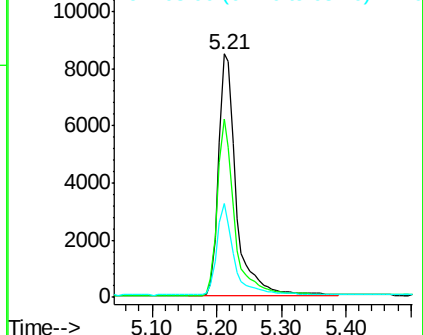
63 36.2 19.5 29.3#



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 1.90 ng

RT: 6.77 min Scan# 667

Delta R.T. -0.00 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

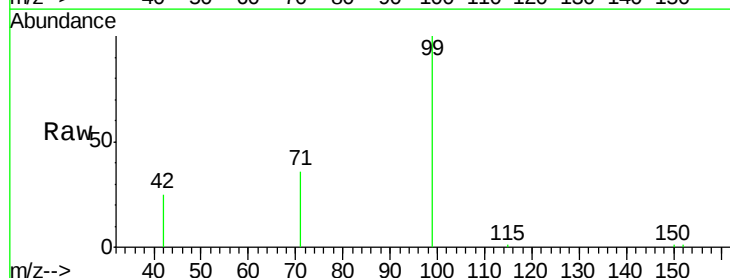
Tgt Ion: 99 Resp: 14639

Ion Ratio Lower Upper

99 100

42 20.0 18.2 27.4

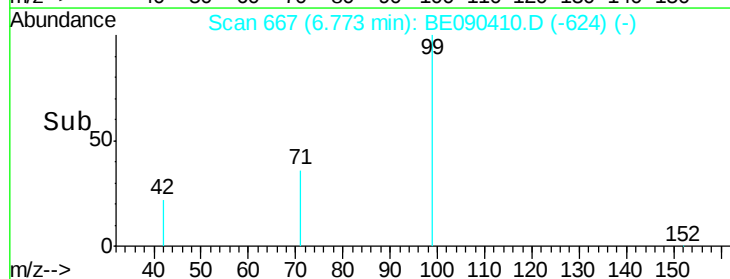
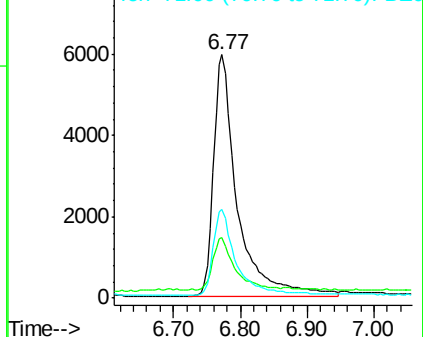
71 35.0 27.4 41.0

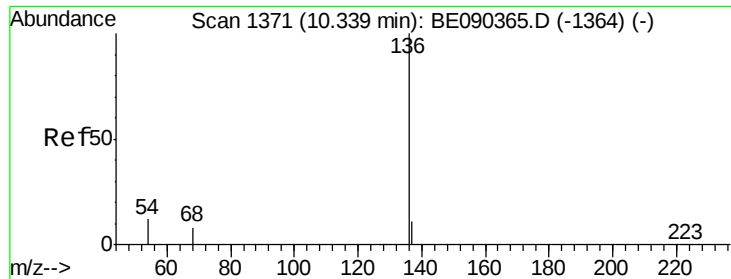


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

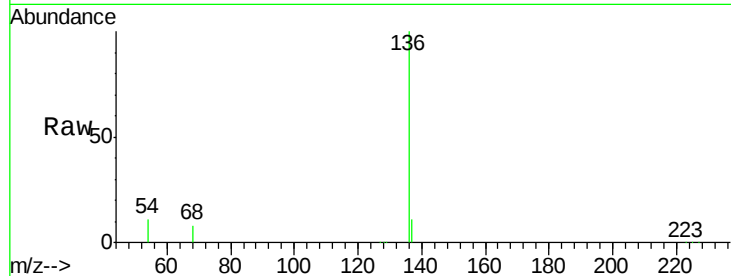




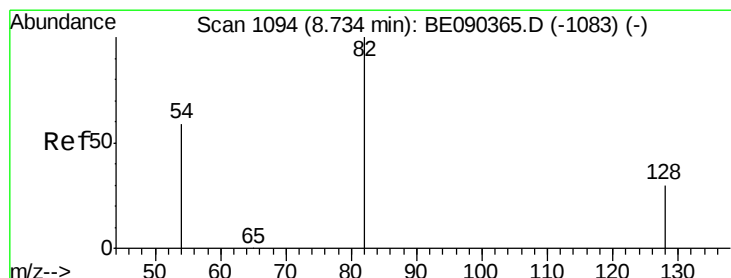
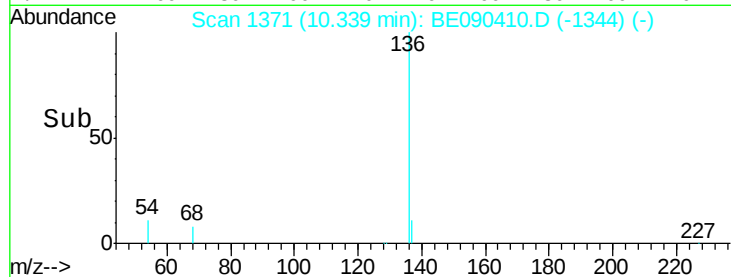
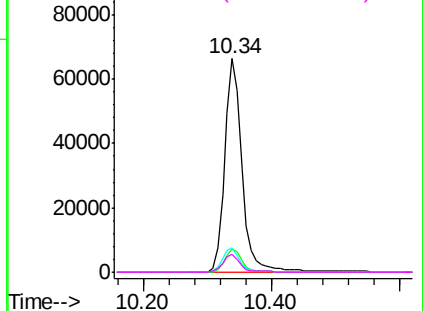
#6  
Naphthalene-d8  
Concen: 5.00 ng  
RT: 10.34 min Scan# 1371  
Delta R.T. -0.00 min  
Lab File: BE090410.D  
Acq: 10 Aug 2015 20:13

Instrument :  
BNA\_E  
ClientSampleId :  
080515-D534-E-U-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 124190 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.7   | 13.1   |
| 54       | 11.1  | 9.4   | 14.0   |
| 68       | 8.2   | 6.5   | 9.7    |

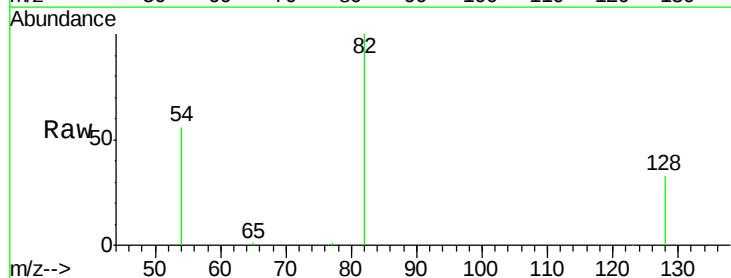


Abundance Ion 136.00 (135.70 to 136.70): BE090410.D (-1364) (-)  
Ion 137.00 (136.70 to 137.70): BE090410.D (-1364) (-)  
Ion 54.00 (53.70 to 54.70): BE090410.D (-1364) (-)  
Ion 68.00 (67.70 to 68.70): BE090410.D (-1364) (-)

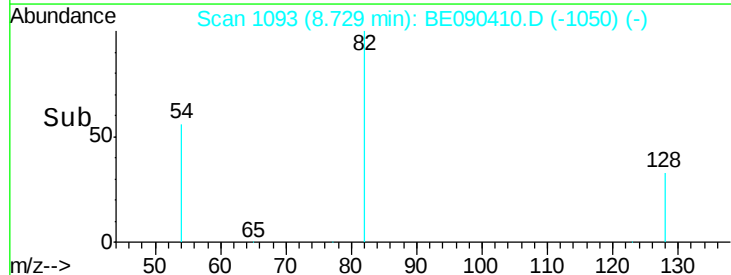
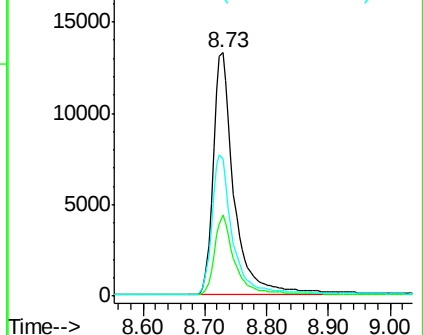


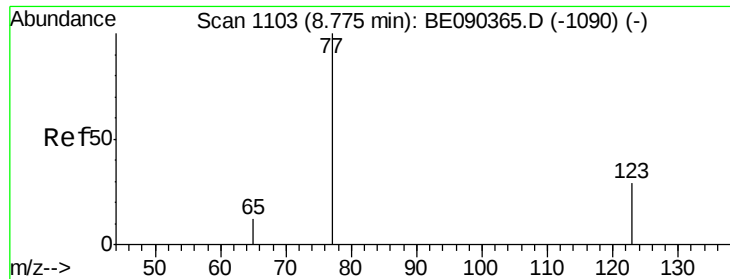
#7  
Nitrobenzene-d5  
Concen: 3.17 ng  
RT: 8.73 min Scan# 1093  
Delta R.T. -0.00 min  
Lab File: BE090410.D  
Acq: 10 Aug 2015 20:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 31269 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 33.1  | 25.0  | 37.6  |
| 54       | 56.3  | 48.8  | 73.2  |



Abundance Ion 82.00 (81.70 to 82.70): BE090410.D (-1050) (-)  
Ion 128.00 (127.70 to 128.70): BE090410.D (-1050) (-)  
Ion 54.00 (53.70 to 54.70): BE090410.D (-1050) (-)





#8

Nitrobenzene

Concen: 0.21 ng

RT: 8.78 min Scan# 1105

Delta R.T. 0.01 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

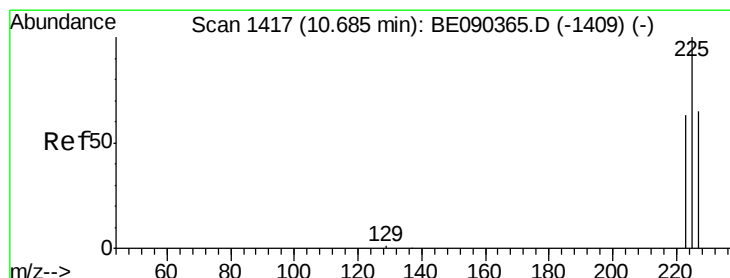
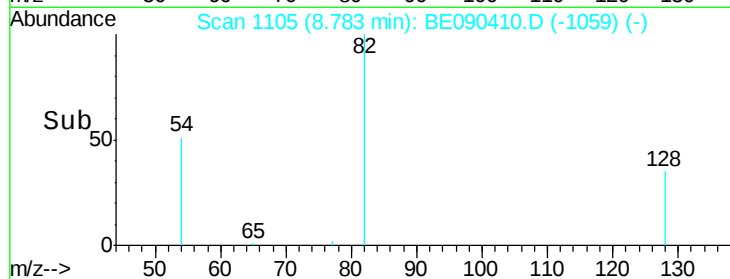
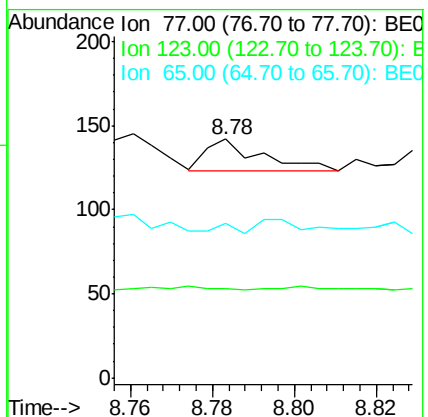
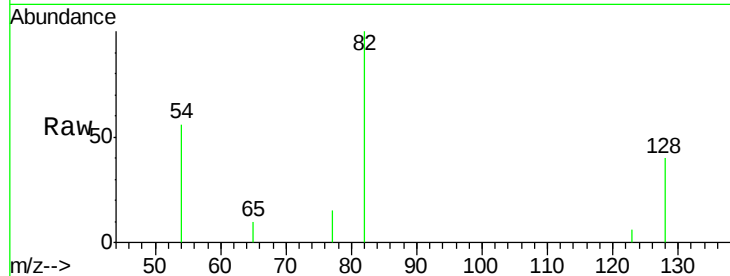
Tgt Ion: 77 Resp: 18

Ion Ratio Lower Upper

77 100

123 22.2 25.1 37.7#

65 0.0 9.3 13.9#



#10

Hexachlorobutadiene

Concen: Below Cal

RT: 10.65 min Scan# 1412

Delta R.T. -0.04 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

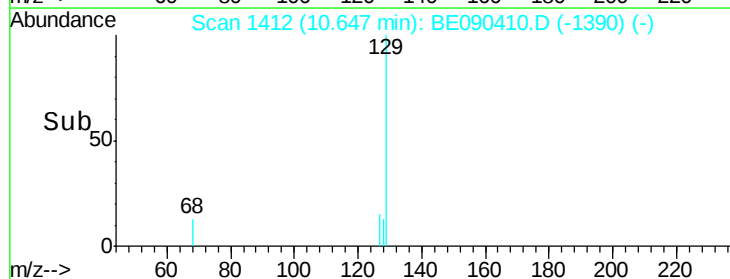
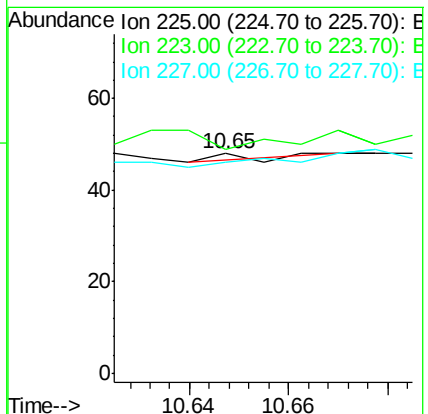
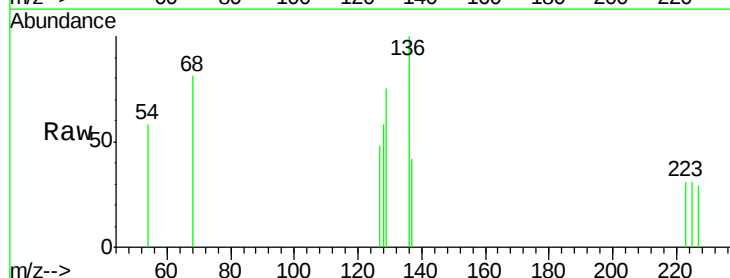
Tgt Ion: 225 Resp: 1

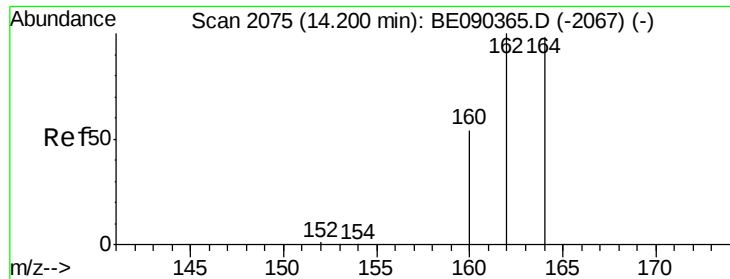
Ion Ratio Lower Upper

225 100

223 0.0 50.6 75.8#

227 0.0 50.7 76.1#





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.20 min Scan# 2075

Delta R.T. -0.00 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

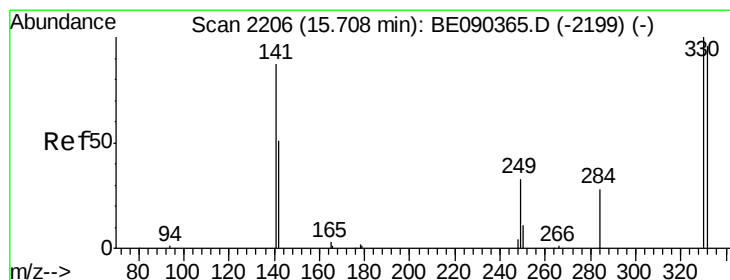
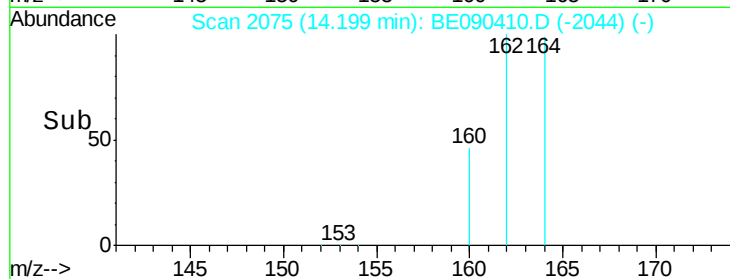
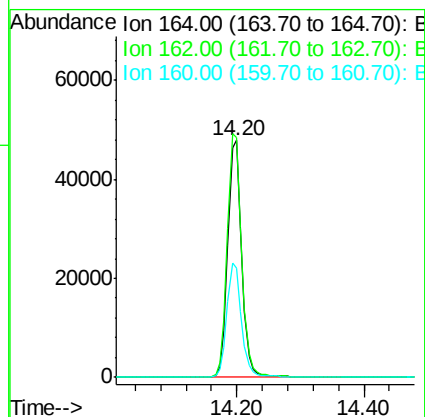
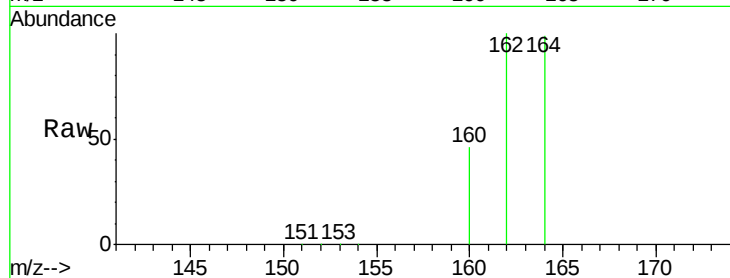
Tgt Ion:164 Resp: 72525

Ion Ratio Lower Upper

164 100

162 101.3 81.8 122.8

160 46.1 44.2 66.4



#13

2,4,6-Tribromophenol

Concen: 7.91 ng

RT: 15.69 min Scan# 2206

Delta R.T. -0.02 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

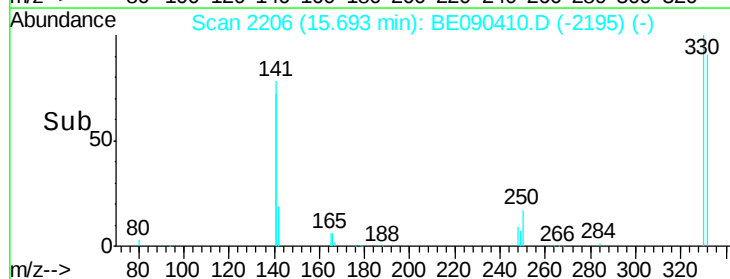
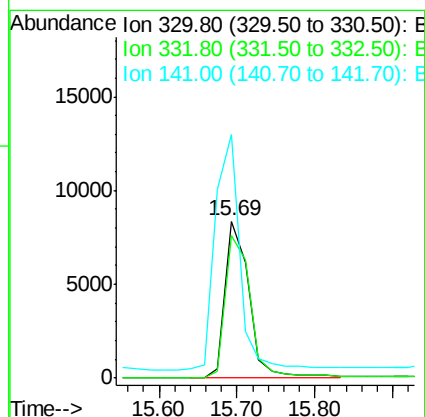
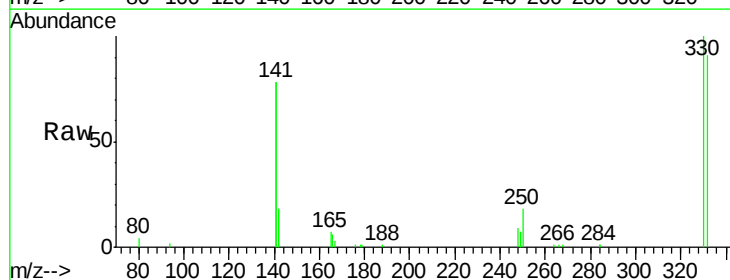
Tgt Ion:330 Resp: 17470

Ion Ratio Lower Upper

330 100

332 95.9 75.8 113.6

141 155.9 114.4 171.6

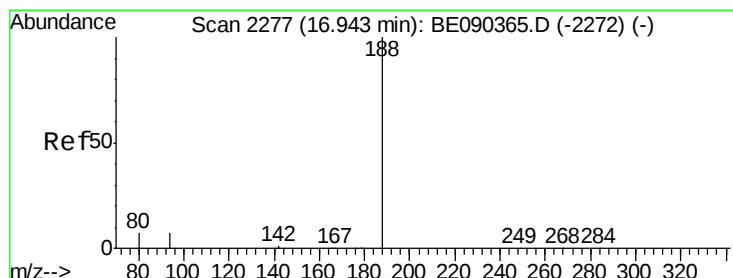
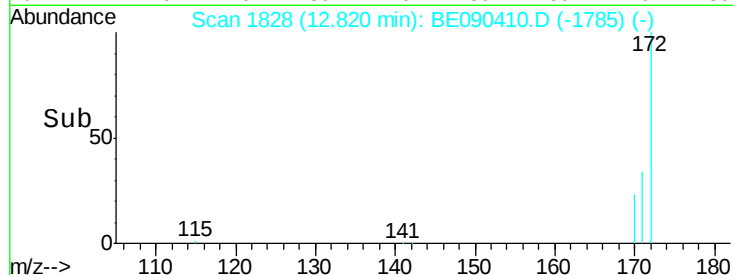
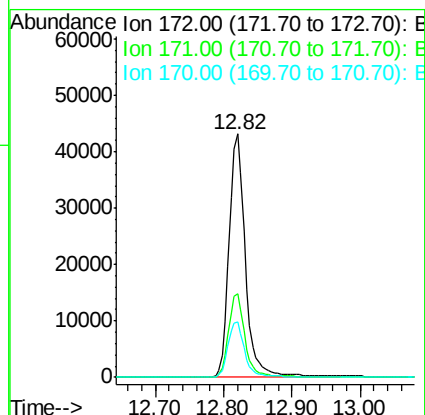
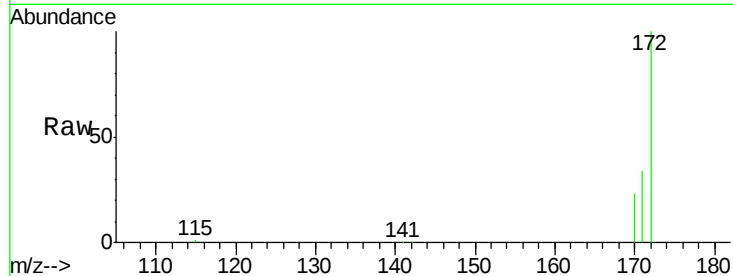




#14  
2-Fluorobiphenyl  
Concen: 3.58 ng  
RT: 12.82 min Scan# 1828  
Delta R.T. -0.00 min  
Lab File: BE090410.D  
Acq: 10 Aug 2015 20:13

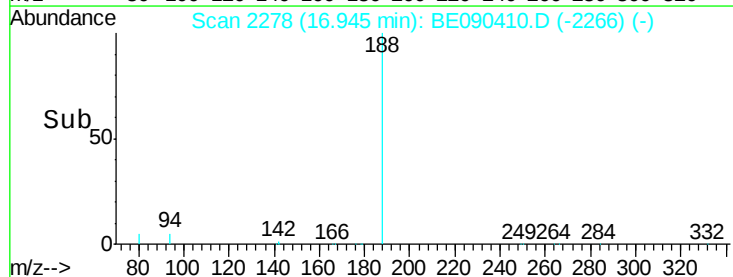
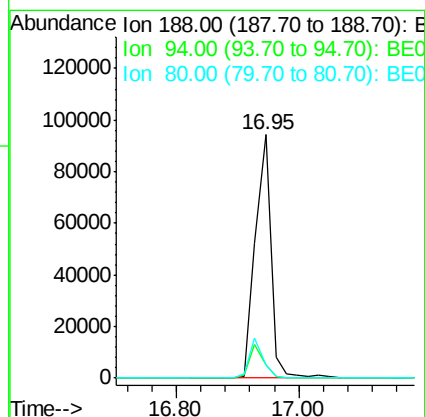
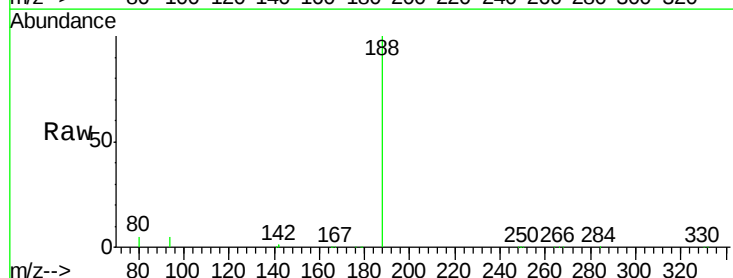
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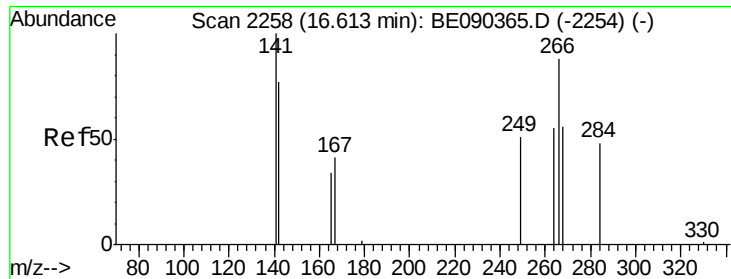
Tgt Ion:172 Resp: 71386  
Ion Ratio Lower Upper  
172 100  
171 34.3 28.5 42.7  
170 22.7 19.8 29.8



#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.95 min Scan# 2278  
Delta R.T. 0.00 min  
Lab File: BE090410.D  
Acq: 10 Aug 2015 20:13

Tgt Ion:188 Resp: 167550  
Ion Ratio Lower Upper  
188 100  
94 5.2 5.7 8.5#  
80 5.3 5.8 8.8#





#21

Pentachlorophenol

Concen: 0.10 ng

RT: 16.60 min Scan# 2258

Delta R.T. -0.01 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

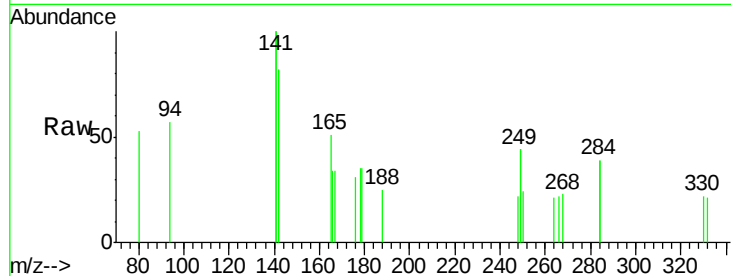
Tgt Ion:266 Resp: 16

Ion Ratio Lower Upper

266 100

268 107.7 58.5 87.7#

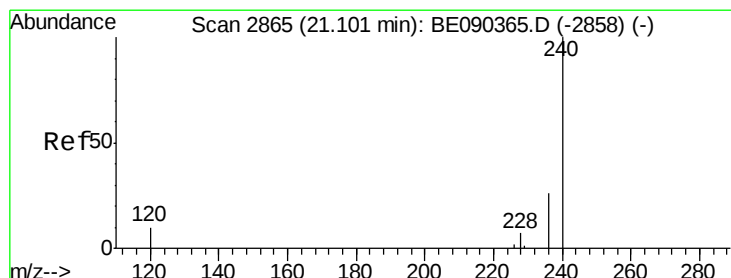
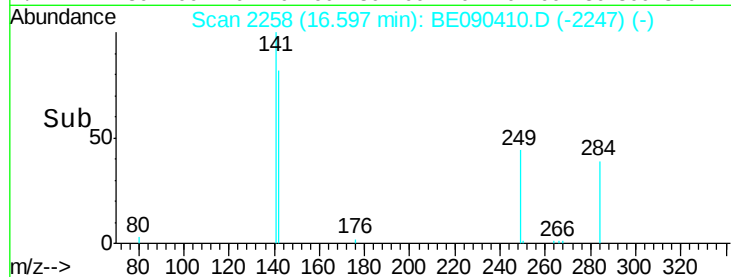
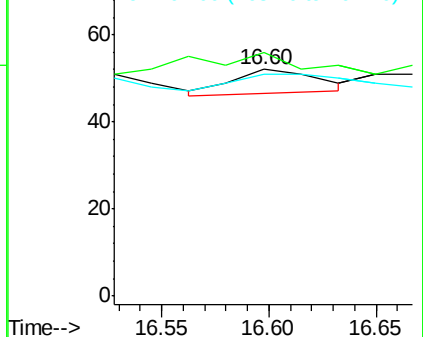
264 98.1 56.0 84.0#



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



#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2865

Delta R.T. -0.01 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

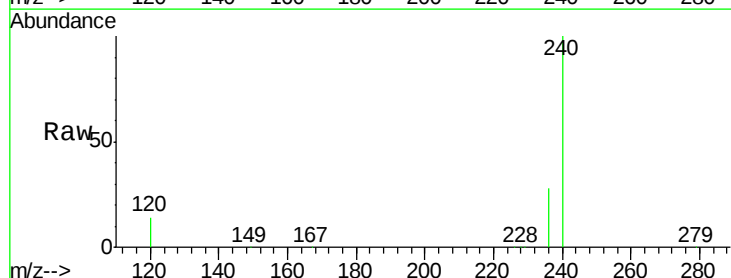
Tgt Ion:240 Resp: 201591

Ion Ratio Lower Upper

240 100

120 13.8 8.3 12.5#

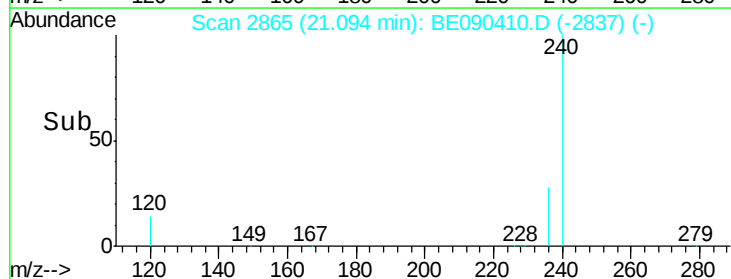
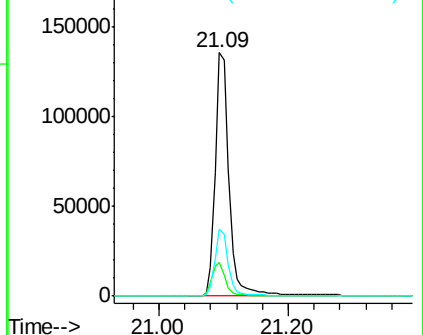
236 27.7 21.0 31.4

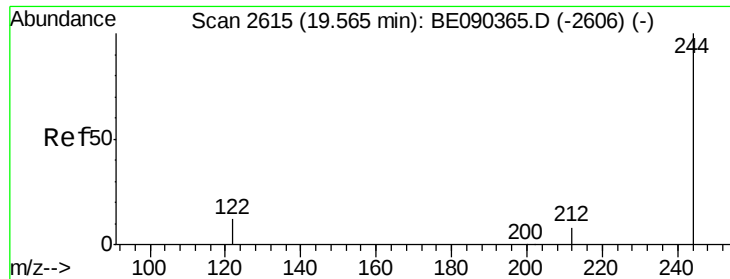


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

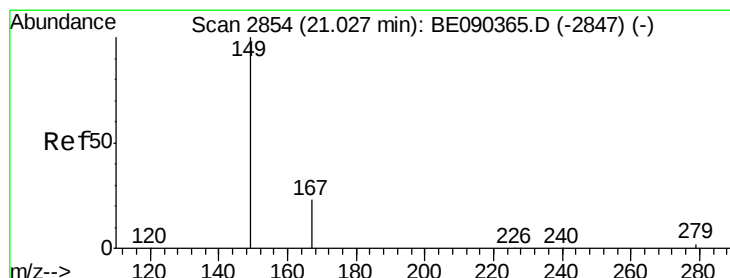
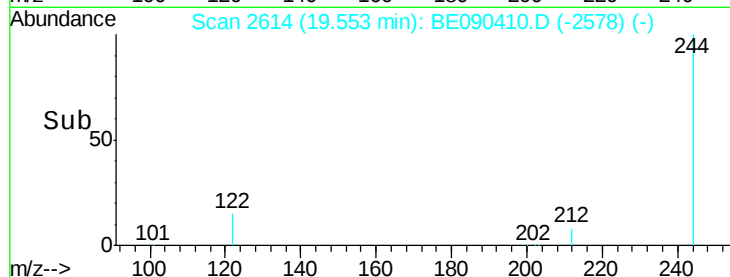
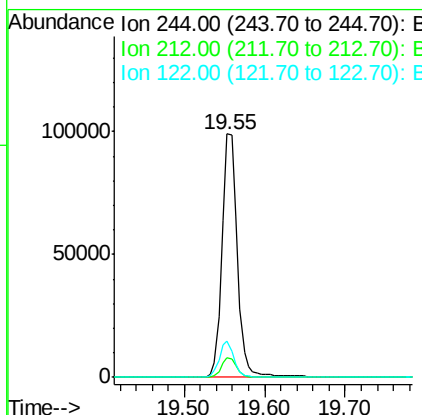
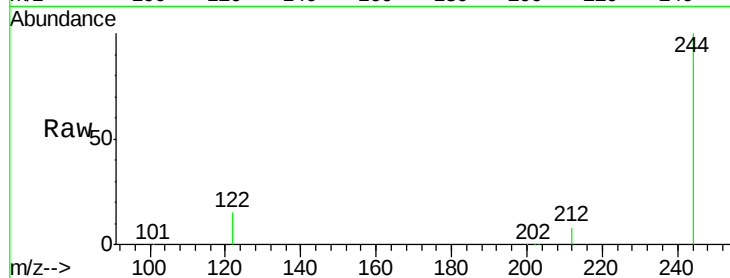




#27  
 Terphenyl-d14  
 Concen: 4.44 ng  
 RT: 19.55 min Scan# 2614  
 Delta R.T. -0.01 min  
 Lab File: BE090410.D  
 Acq: 10 Aug 2015 20:13

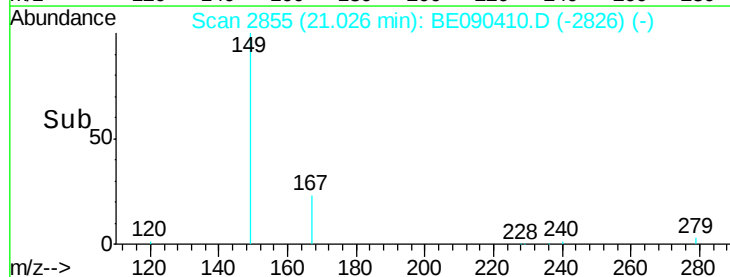
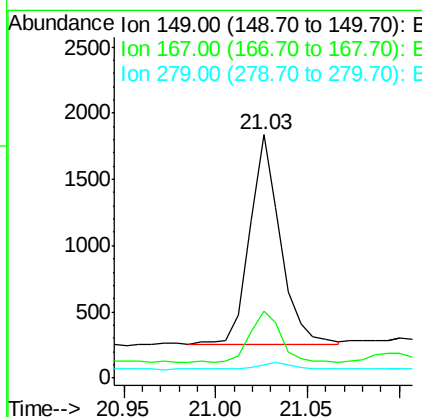
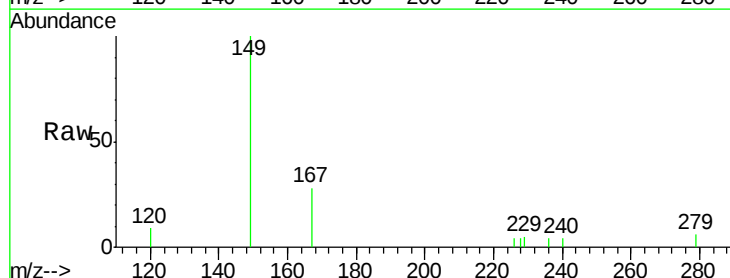
Instrument :  
 BNA\_E  
 ClientSampleId :  
 080515-D534-E-U-B

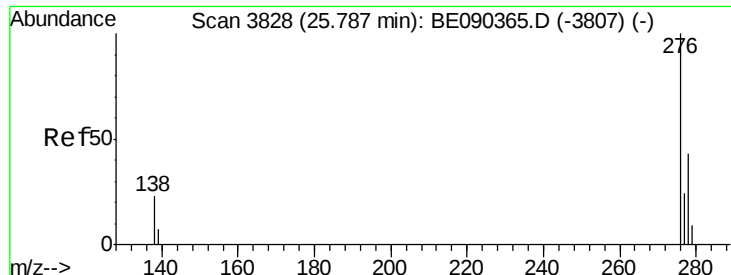
Tgt Ion: 244 Resp: 131833  
 Ion Ratio Lower Upper  
 244 100  
 212 8.2 6.6 9.8  
 122 14.7 10.2 15.4



#30  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.28 ng  
 RT: 21.03 min Scan# 2855  
 Delta R.T. -0.00 min  
 Lab File: BE090410.D  
 Acq: 10 Aug 2015 20:13

Tgt Ion: 149 Resp: 1832  
 Ion Ratio Lower Upper  
 149 100  
 167 25.1 19.8 29.8  
 279 3.4 2.4 3.6





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.26 ng

RT: 25.79 min Scan# 3829

Delta R.T. 0.00 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

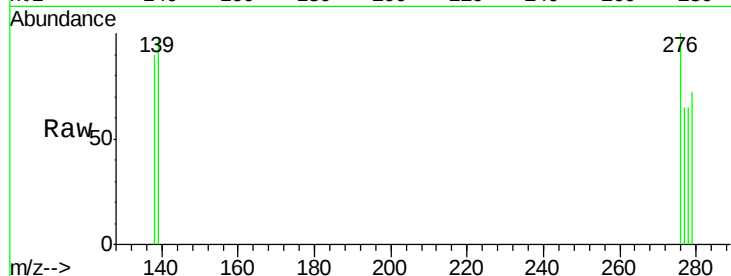
Tgt Ion:276 Resp: 273

Ion Ratio Lower Upper

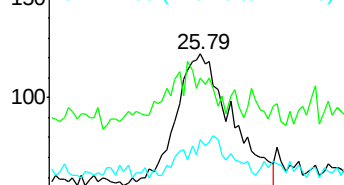
276 100

138 0.0 18.8 28.2#

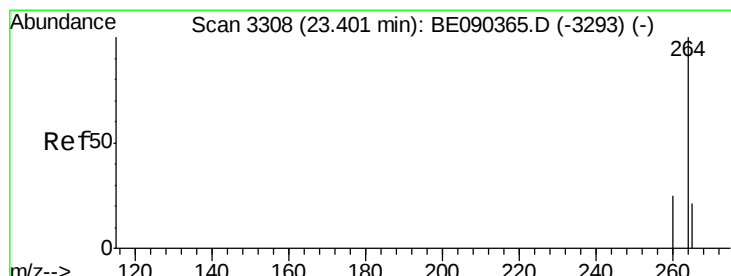
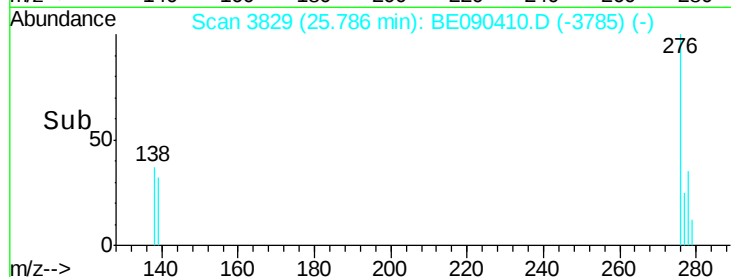
277 7.0 18.2 27.4#



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



Time-->



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 3308

Delta R.T. -0.00 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

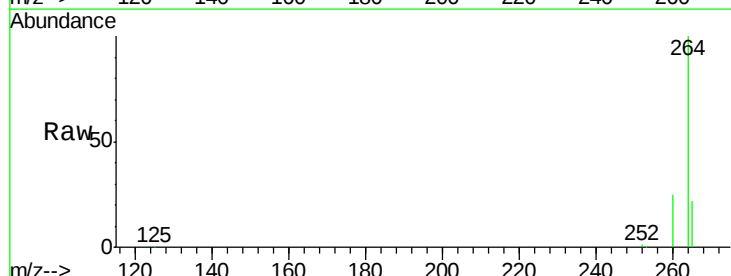
Tgt Ion:264 Resp: 191254

Ion Ratio Lower Upper

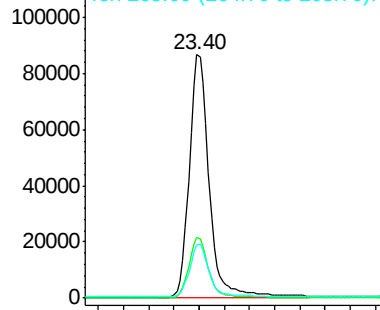
264 100

260 24.8 20.1 30.1

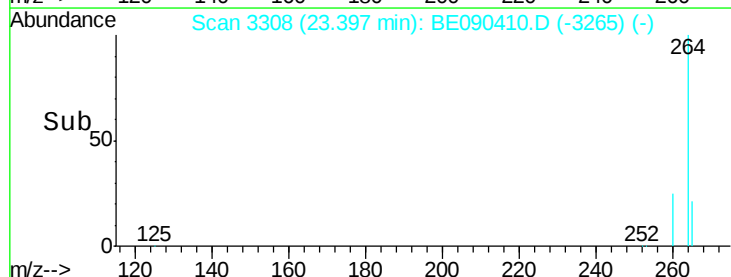
265 21.8 17.2 25.8

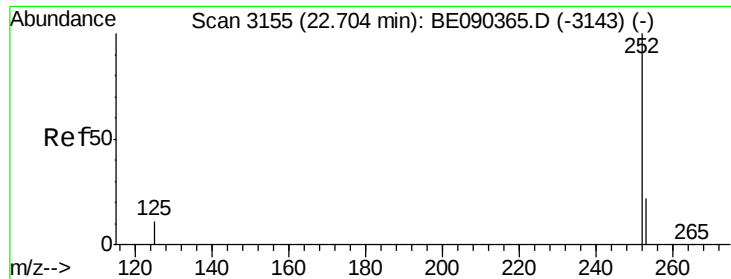


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



Time-->





#33

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 22.70 min Scan# 3156

Delta R.T. 0.00 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B

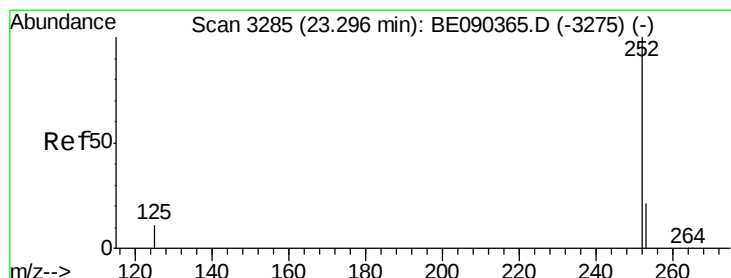
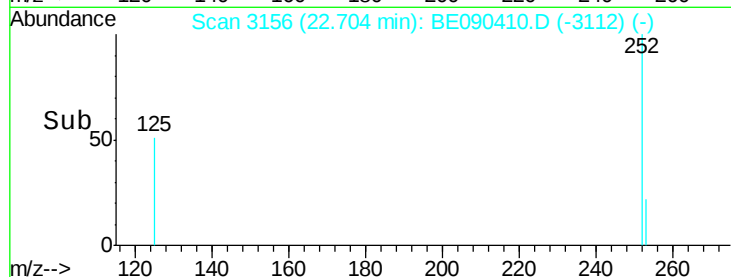
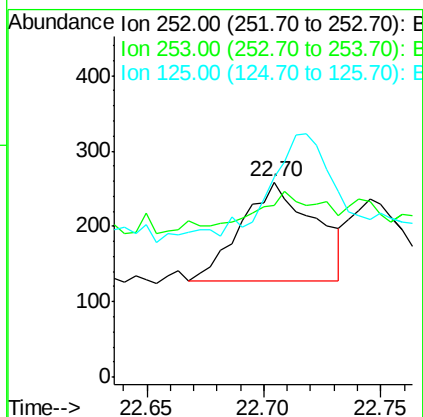
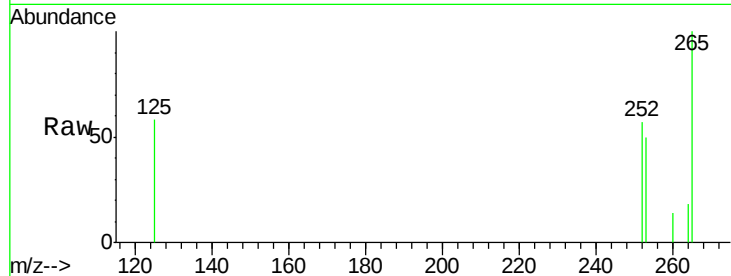
Tgt Ion: 252 Resp: 289

Ion Ratio Lower Upper

252 100

253 87.6 18.1 27.1#

125 102.3 9.4 14.2#



#35

Benzo(a)pyrene

Concen: 0.23 ng

RT: 23.29 min Scan# 3284

Delta R.T. -0.01 min

Lab File: BE090410.D

Acq: 10 Aug 2015 20:13

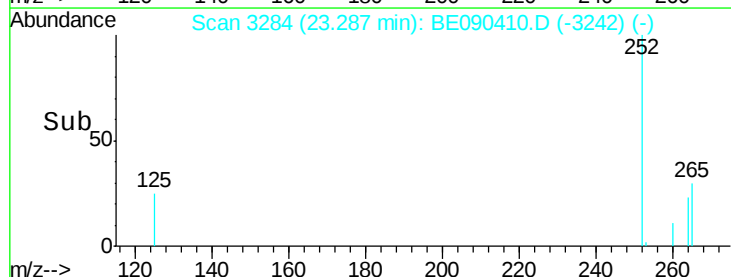
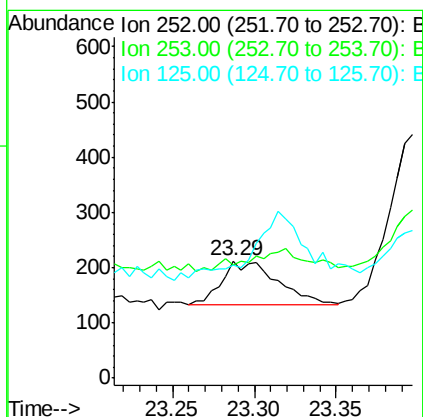
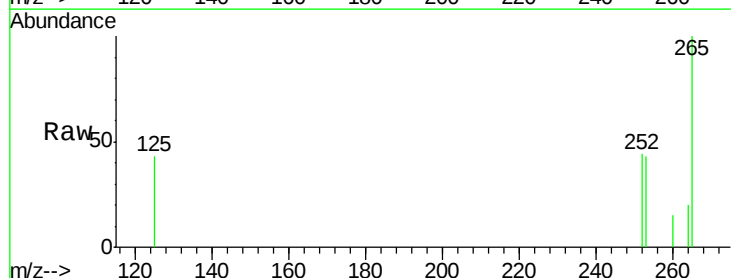
Tgt Ion: 252 Resp: 187

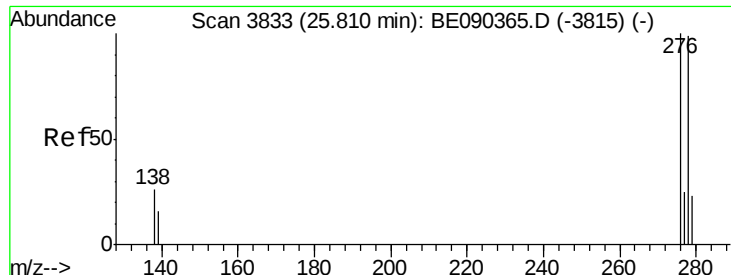
Ion Ratio Lower Upper

252 100

253 96.2 17.6 26.4#

125 96.2 9.8 14.6#





#36

Dibenzo(a,h)anthracene

Concen: 0.29 ng

RT: 25.80 min Scan# 3833

Delta R.T. -0.00 min

Lab File: BE090410.D

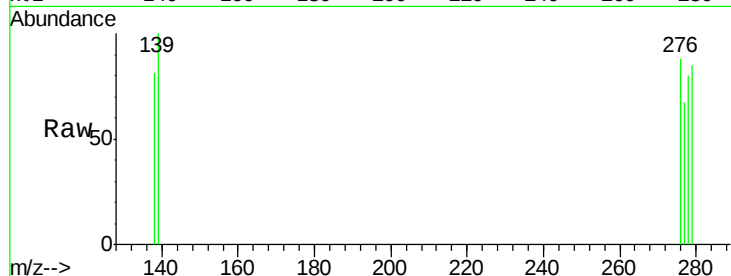
Acq: 10 Aug 2015 20:13

Instrument :

BNA\_E

ClientSampleId :

080515-D534-E-U-B



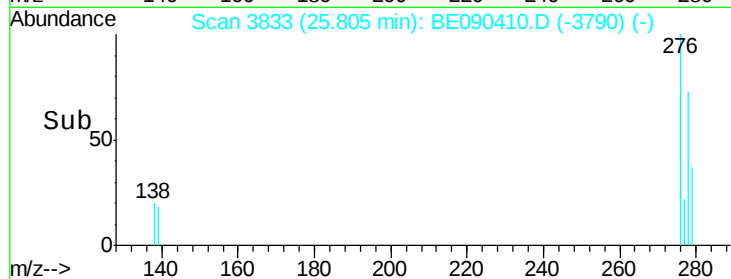
Tgt Ion: 278 Resp: 64

Ion Ratio Lower Upper

278 100

139 125.5 14.2 21.4#

279 106.4 20.1 30.1#



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

