

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE090115\  
 Data File : BE090701.D  
 Acq On : 2 Sep 2015 13:08  
 Operator : UM/IZ  
 Sample : G3495-01  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 082815-D534-F-U-B

Quant Time: Sep 02 13:41:59 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 02 11:40:50 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 40451    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.31 | 136  | 169663   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.17 | 164  | 111093   | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.91 | 188  | 206151   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.07 | 240  | 291949   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.36 | 264  | 281959   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.19  | 112  | 37641    | 4.78 | ng    | 0.00     |
| 5) Phenol-d6                | 6.75  | 99   | 32032    | 2.84 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.71  | 82   | 49967    | 4.46 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.67 | 330  | 24515    | 7.53 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.79 | 172  | 102783   | 3.34 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.53 | 244  | 200383   | 6.20 | ng    | 0.00     |

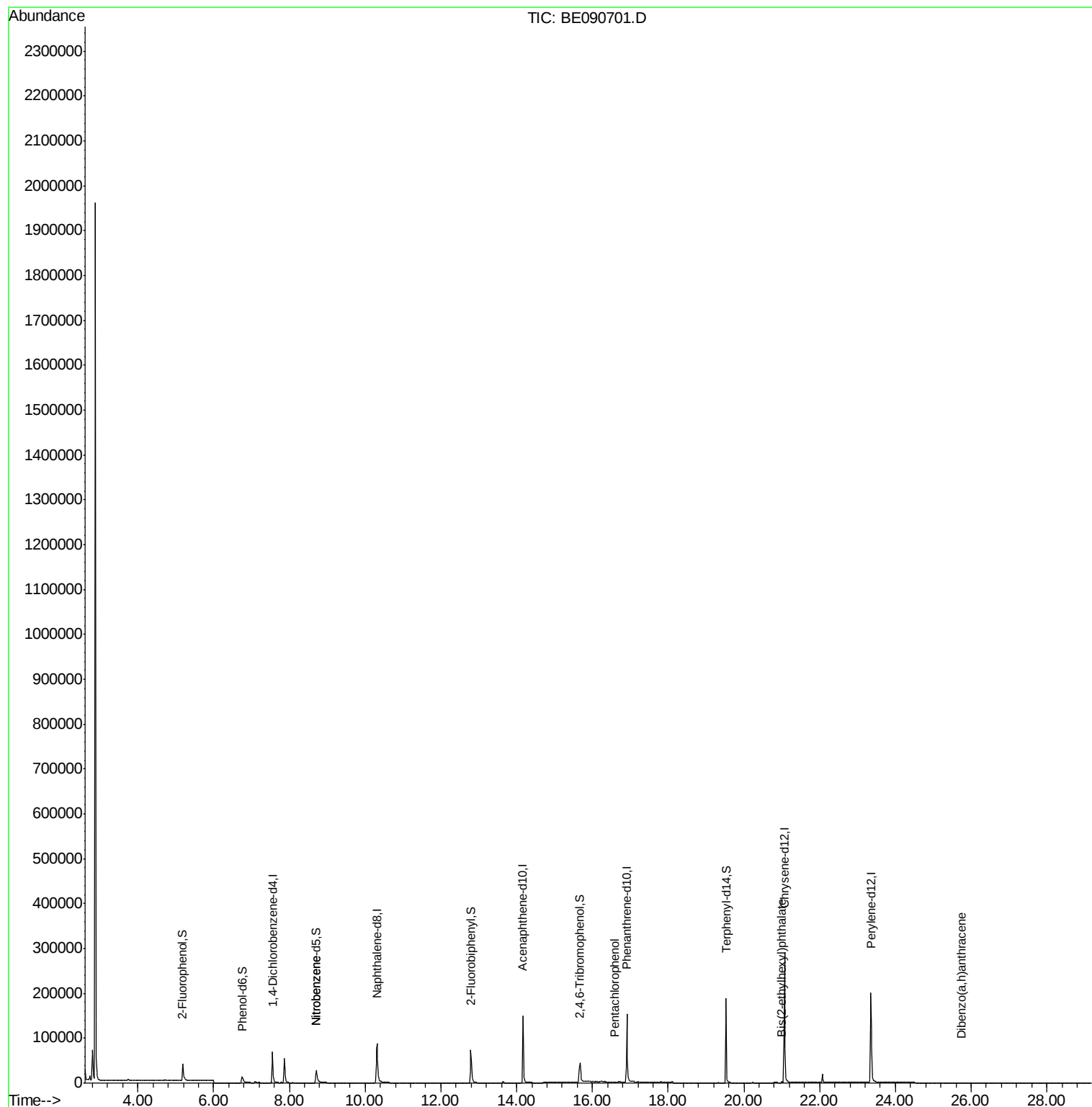
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.15  | 88   | 106      | Below Cal | #     | 17     |
| 3) n-Nitrosodimethylamine      | 3.42  | 42   | 99       | Below Cal | #     | 1      |
| 8) Nitrobenzene                | 8.71  | 77   | 101      | 0.12 ng   | #     | 61     |
| 20) Hexachlorobenzene          | 16.25 | 284  | 98       | Below Cal | #     | 37     |
| 21) Pentachlorophenol          | 16.60 | 266  | 56       | 0.48 ng   | #     | 61     |
| 29) Chrysene                   | 21.07 | 228  | 1205     | Below Cal | #     | 77     |
| 30) Bis(2-ethylhexyl)phthalate | 21.00 | 149  | 2115     | 0.19 ng   | #     | 99     |
| 36) Dibenzo(a,h)anthracene     | 25.75 | 278  | 10       | 0.14 ng   | #     | 1      |

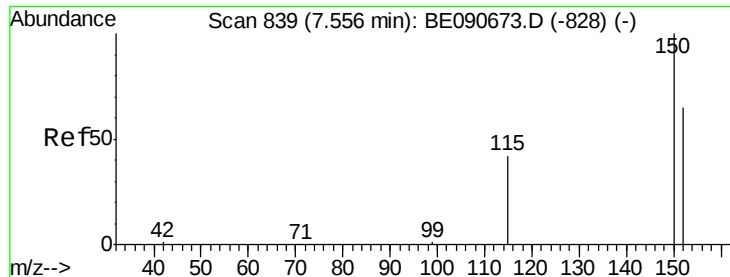
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 02 11:40:50 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 838

Delta R.T. -0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

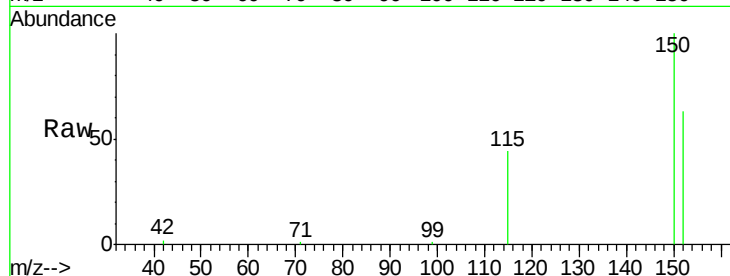
Tgt Ion:152 Resp: 40451

Ion Ratio Lower Upper

152 100

150 157.7 122.2 183.4

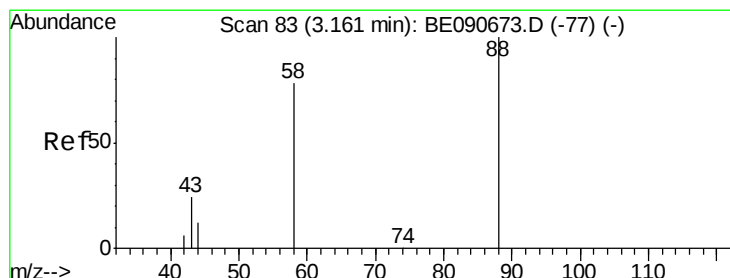
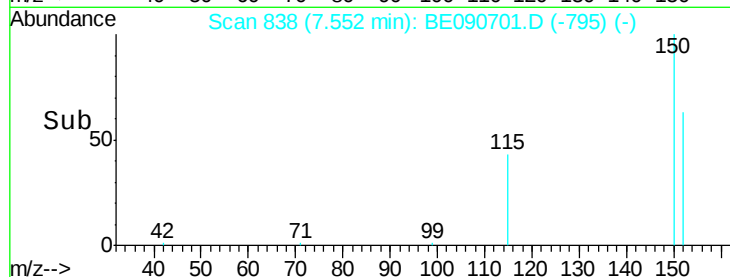
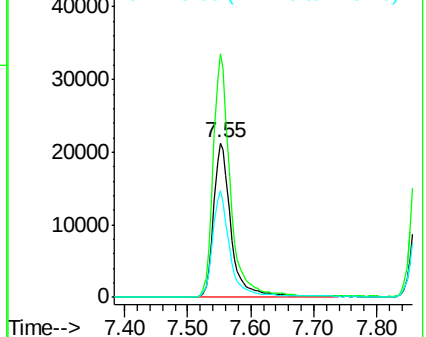
115 68.7 51.0 76.4



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: 3.15 min Scan# 82

Delta R.T. -0.01 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

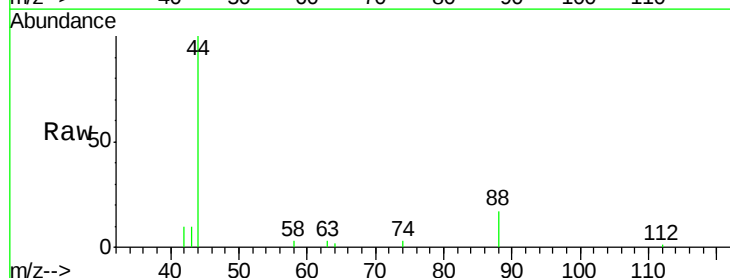
Tgt Ion: 88 Resp: 106

Ion Ratio Lower Upper

88 100

58 71.7 68.4 102.6

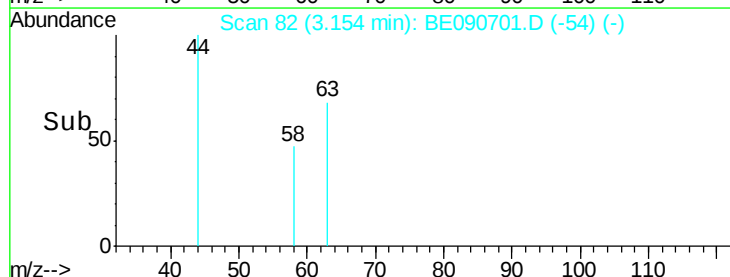
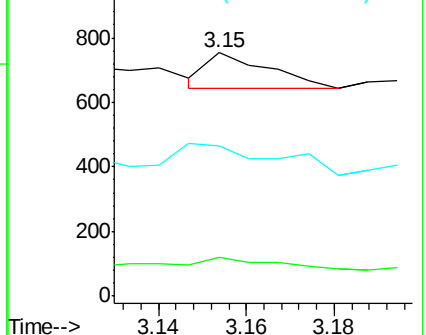
43 179.2 26.9 40.3#

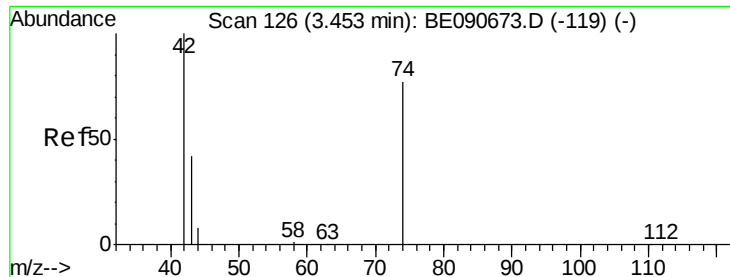


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



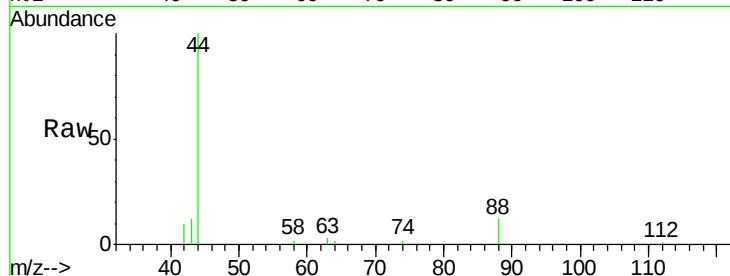


#3

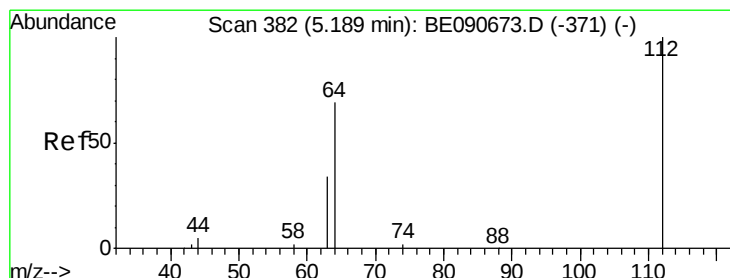
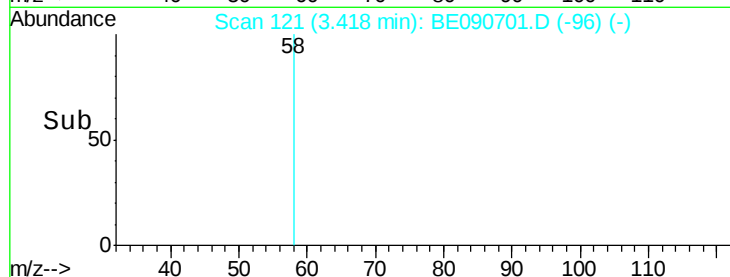
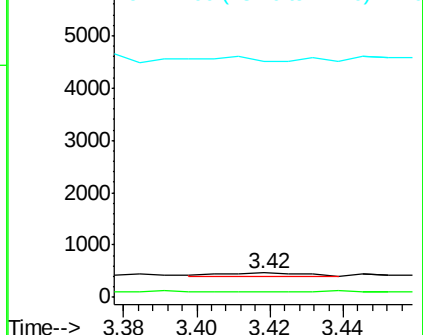
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.42 min Scan# 121  
 Delta R.T. -0.03 min  
 Lab File: BE090701.D  
 Acq: 2 Sep 2015 13:08

Instrument :  
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Tgt Ion: 42 Resp: 99  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 83.7 125.5#  
 44 180.8 10.0 15.0#



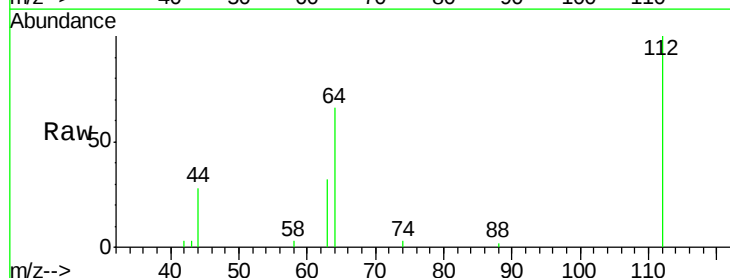
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



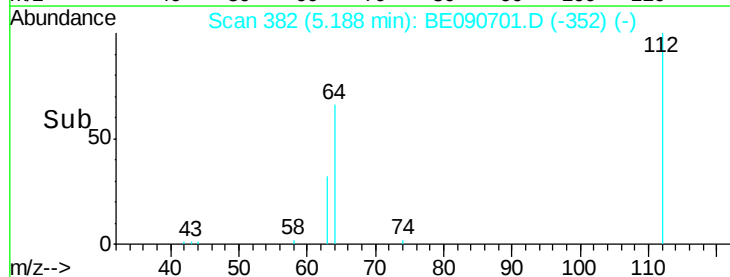
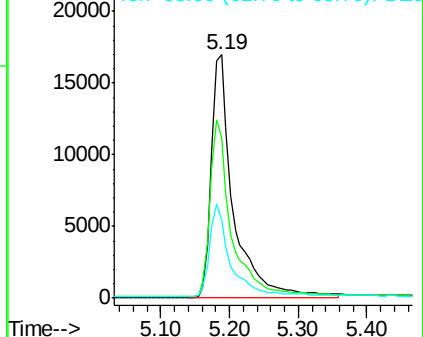
#4

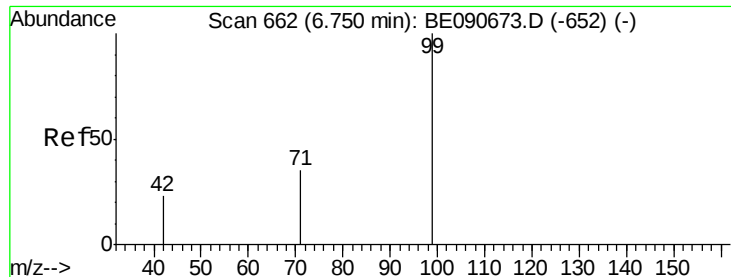
2-Fluorophenol  
 Concen: 4.78 ng  
 RT: 5.19 min Scan# 382  
 Delta R.T. 0.00 min  
 Lab File: BE090701.D  
 Acq: 2 Sep 2015 13:08

Tgt Ion: 112 Resp: 37641  
 Ion Ratio Lower Upper  
 112 100  
 64 71.7 57.3 85.9  
 63 37.2 29.2 43.8



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BE0  
 Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.84 ng

RT: 6.75 min Scan# 662

Delta R.T. -0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

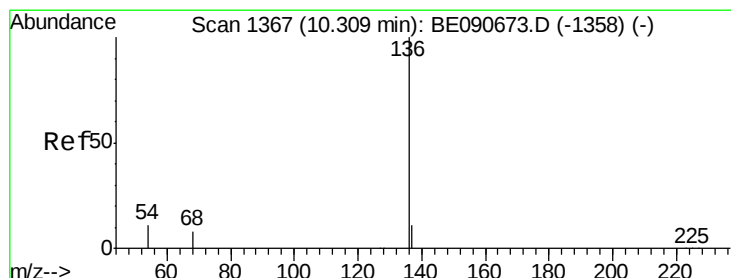
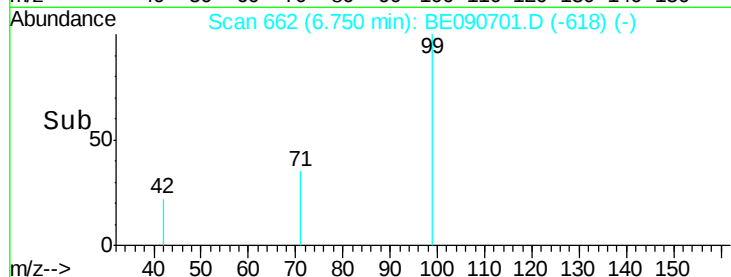
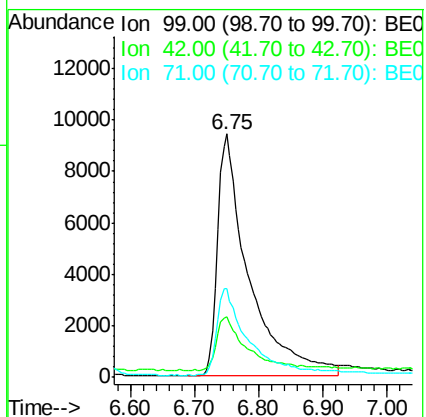
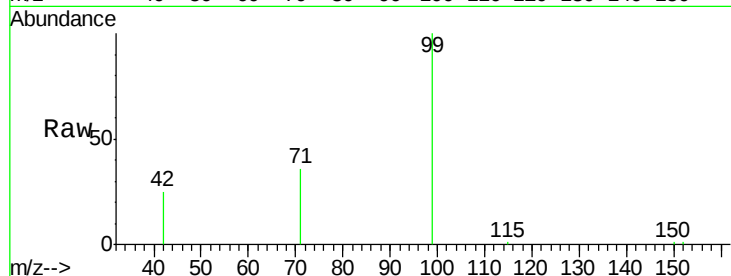
Tgt Ion: 99 Resp: 32032

Ion Ratio Lower Upper

99 100

42 22.4 16.8 25.2

71 35.3 28.3 42.5



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.31 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Tgt Ion: 136 Resp: 169663

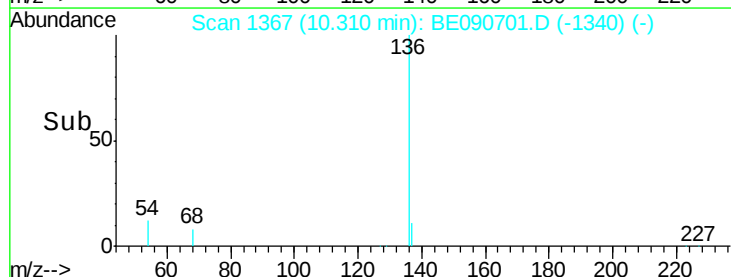
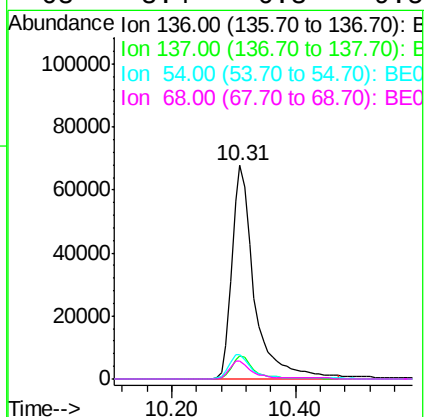
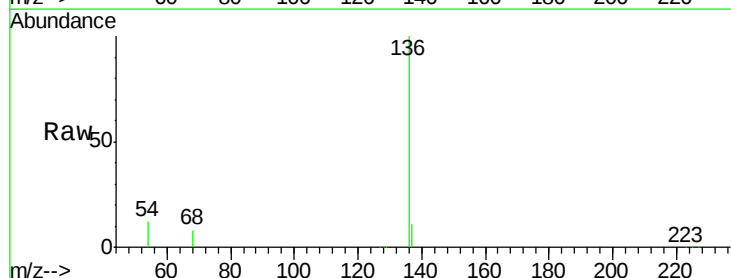
Ion Ratio Lower Upper

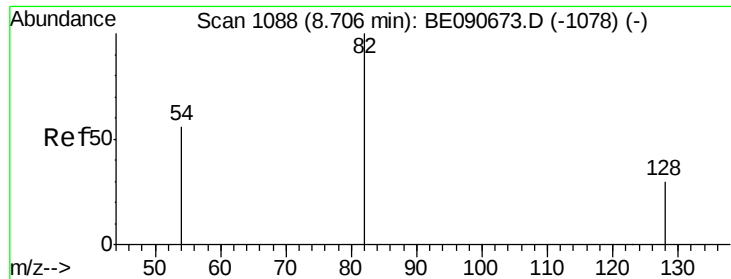
136 100

137 10.9 8.7 13.1

54 11.7 9.0 13.6

68 8.4 6.3 9.5





#7

Nitrobenzene-d5

Concen: 4.46 ng

RT: 8.71 min Scan# 1088

Delta R.T. -0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

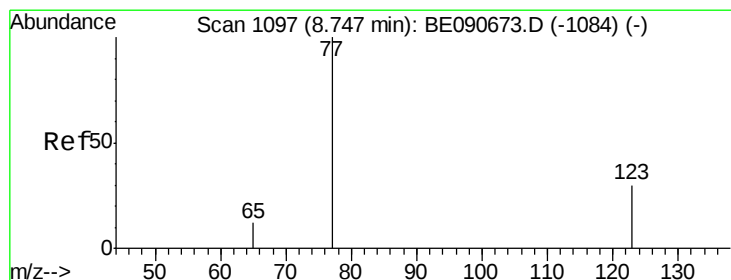
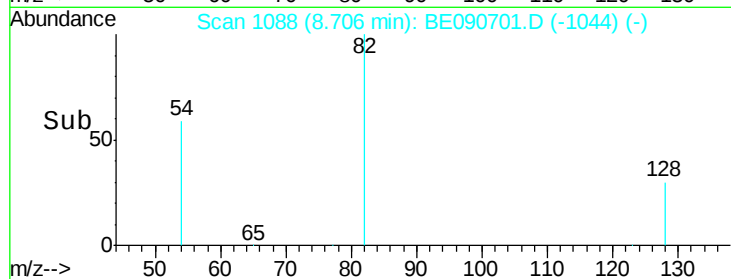
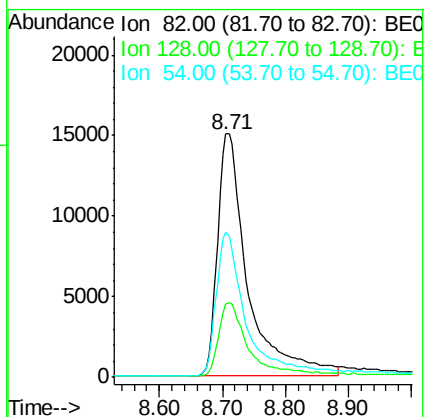
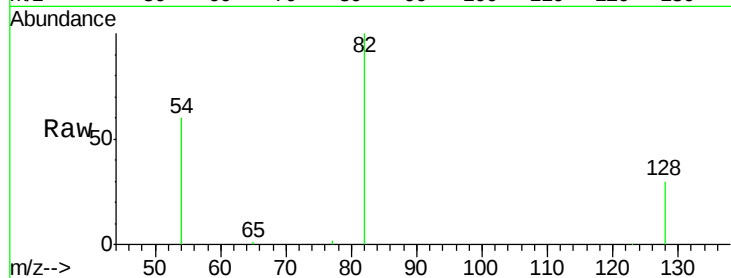
Tgt Ion: 82 Resp: 49967

Ion Ratio Lower Upper

82 100

128 30.0 25.0 37.4

54 59.6 46.3 69.5



#8

Nitrobenzene

Concen: 0.12 ng

RT: 8.71 min Scan# 1088

Delta R.T. -0.04 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

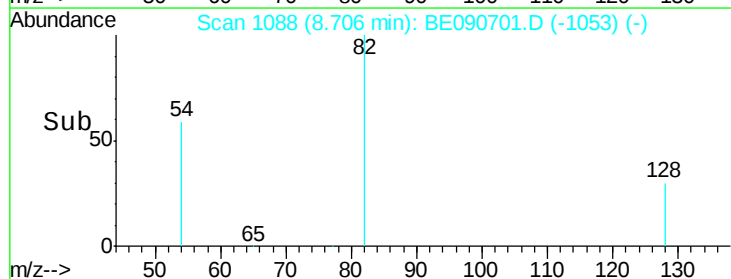
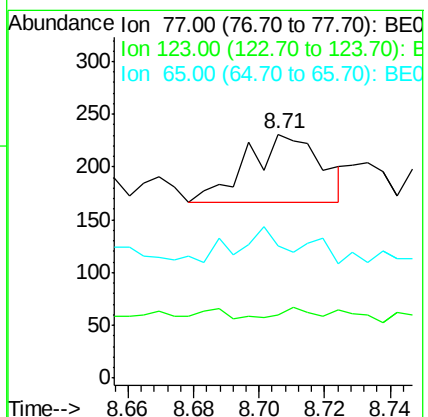
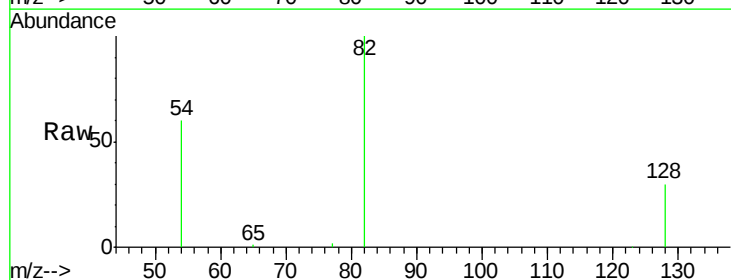
Tgt Ion: 77 Resp: 101

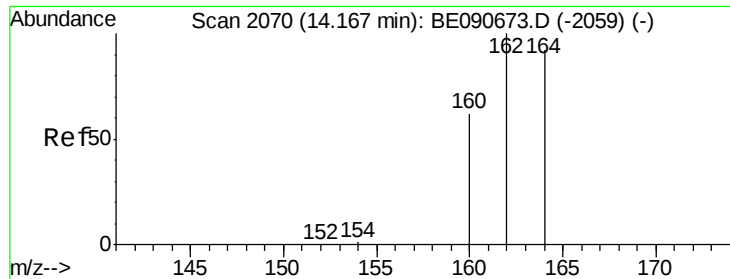
Ion Ratio Lower Upper

77 100

123 7.9 25.1 37.7#

65 24.8 9.9 14.9#





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 2071

Delta R.T. 0.01 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

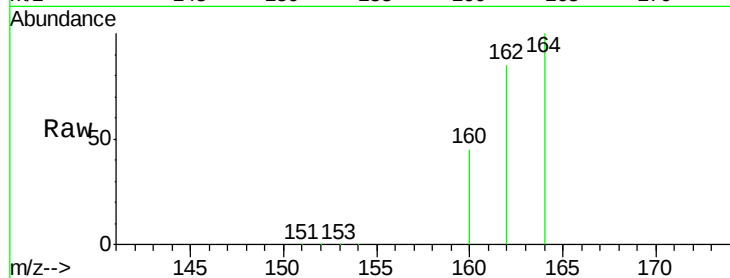
Tgt Ion:164 Resp: 111093

Ion Ratio Lower Upper

164 100

162 84.7 86.8 130.2#

160 45.2 53.9 80.9#



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

14.17

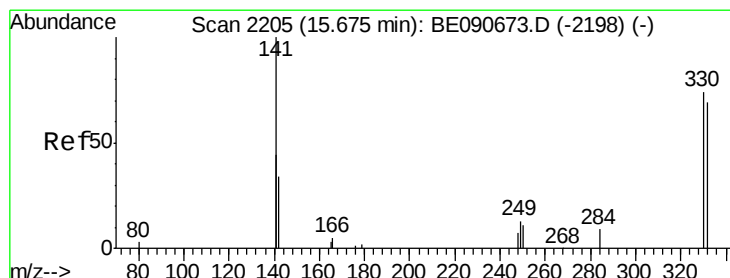
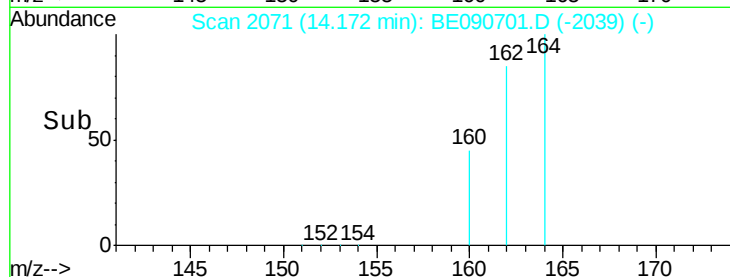
60000

40000

20000

0

Time--> 14.00 14.20 14.40



#13

2,4,6-Tribromophenol

Concen: 7.53 ng

RT: 15.67 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

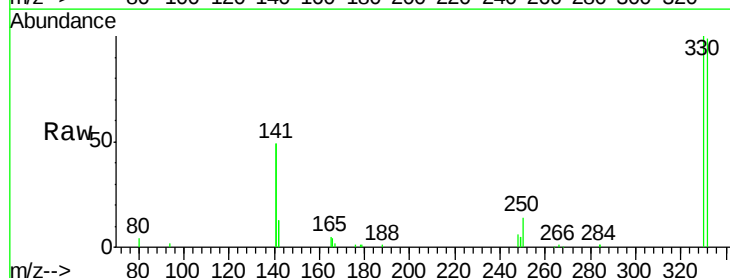
Tgt Ion:330 Resp: 24515

Ion Ratio Lower Upper

330 100

332 97.3 74.9 112.3

141 174.7 145.2 217.8



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

15.67

25000

20000

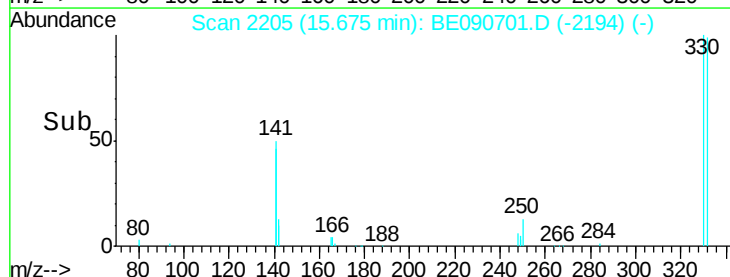
15000

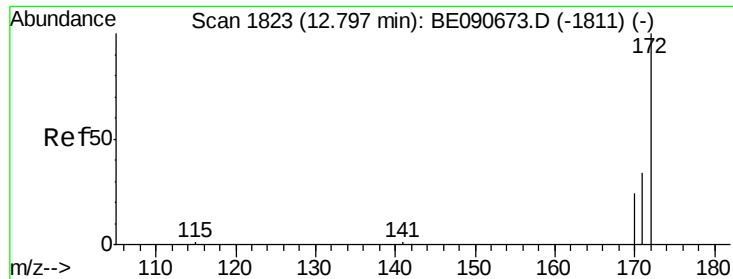
10000

5000

0

Time--> 15.60 15.80

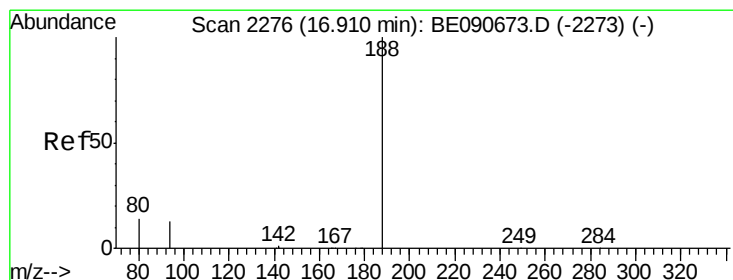
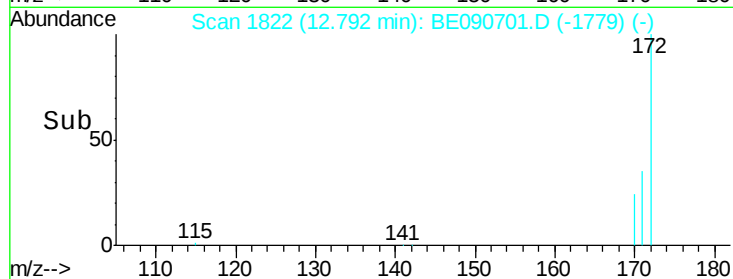
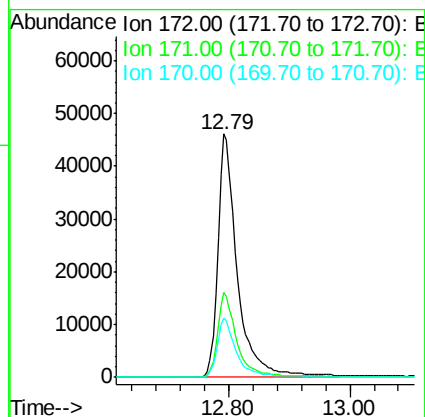
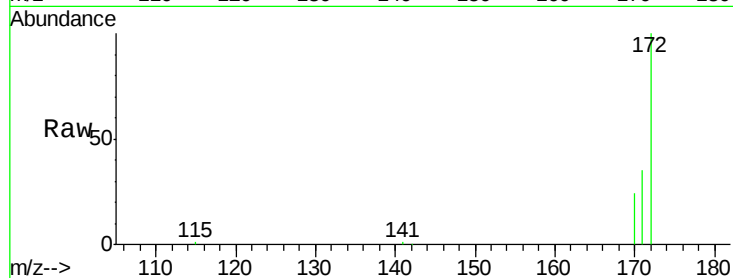




#14  
2-Fluorobiphenyl  
Concen: 3.34 ng  
RT: 12.79 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: BE090701.D  
Acq: 2 Sep 2015 13:08

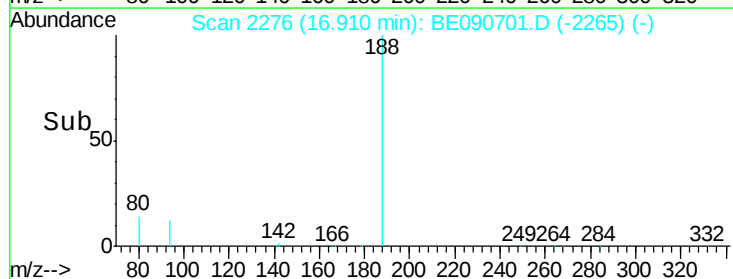
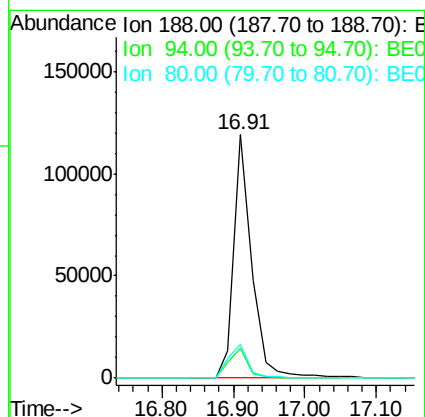
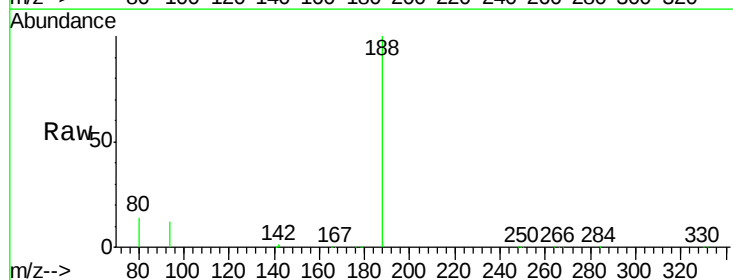
Instrument :  
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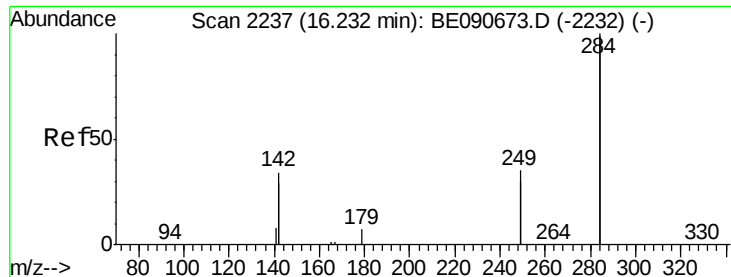
Tgt Ion:172 Resp: 102783  
Ion Ratio Lower Upper  
172 100  
171 34.7 27.8 41.8  
170 24.4 19.8 29.6



#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.91 min Scan# 2276  
Delta R.T. -0.00 min  
Lab File: BE090701.D  
Acq: 2 Sep 2015 13:08

Tgt Ion:188 Resp: 206151  
Ion Ratio Lower Upper  
188 100  
94 12.4 10.3 15.5  
80 13.8 11.0 16.6





#20

Hexachlorobenzene

Concen: Below Cal

RT: 16.25 min Scan# 2238

Delta R.T. 0.02 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

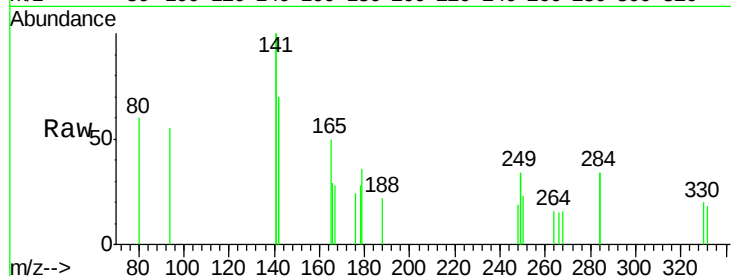
Tgt Ion:284 Resp: 98

Ion Ratio Lower Upper

284 100

142 0.0 35.0 52.4#

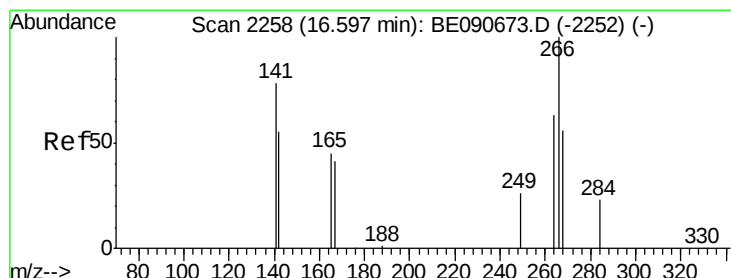
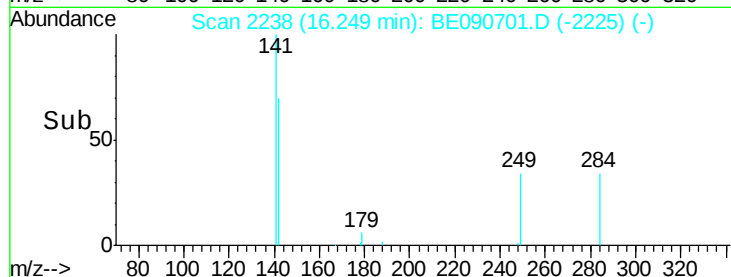
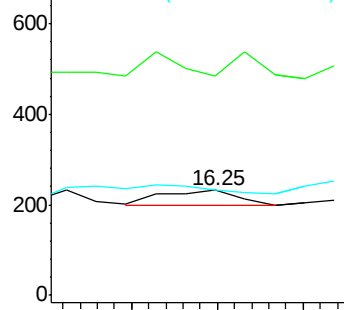
249 0.0 25.5 38.3#



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#21

Pentachlorophenol

Concen: 0.48 ng

RT: 16.60 min Scan# 2258

Delta R.T. -0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

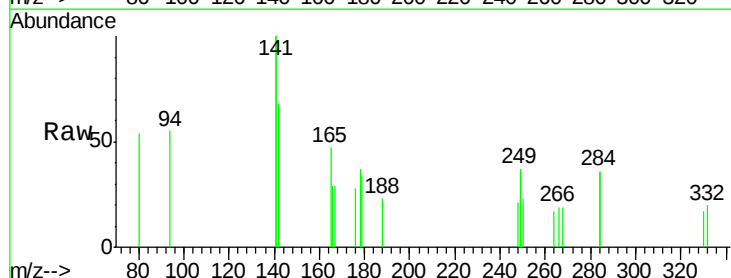
Tgt Ion:266 Resp: 56

Ion Ratio Lower Upper

266 100

268 101.7 49.6 74.4#

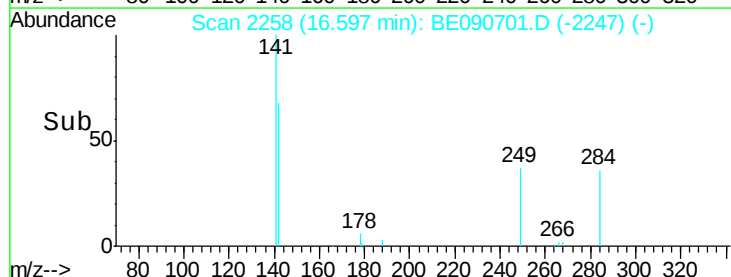
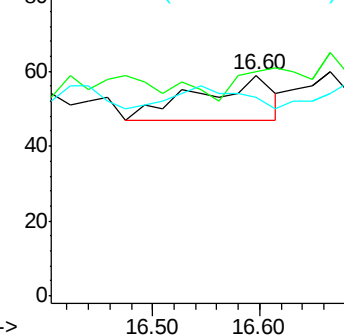
264 89.8 53.9 80.9#

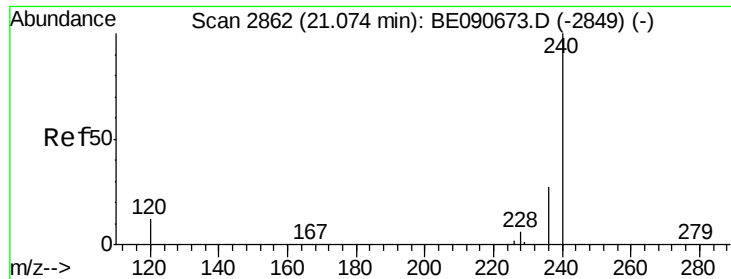


Abundance Ion 265.70 (265.40 to 266.40): E

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: 21.07 min Scan# 2861

Delta R.T. -0.00 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

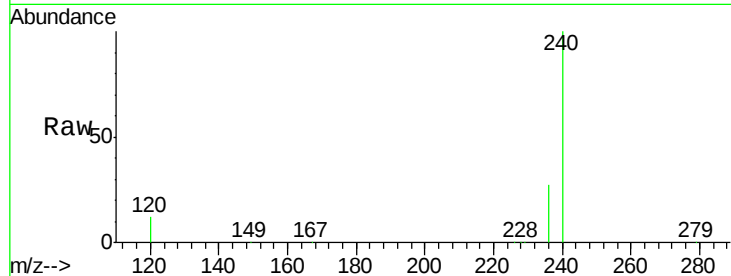
Tgt Ion:240 Resp: 291949

Ion Ratio Lower Upper

240 100

120 12.0 10.1 15.1

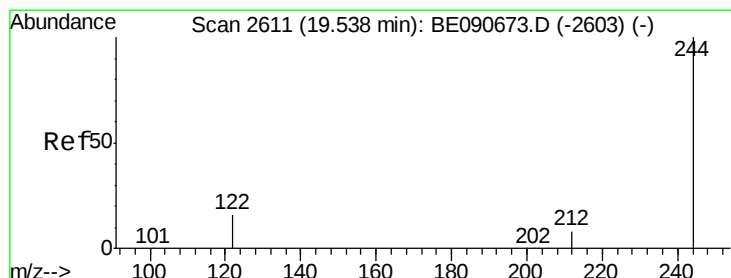
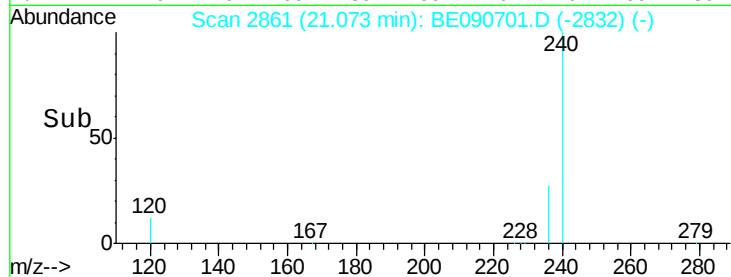
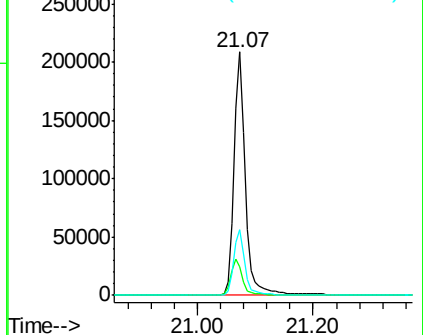
236 27.1 21.9 32.9



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: 6.20 ng

RT: 19.53 min Scan# 2609

Delta R.T. -0.01 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

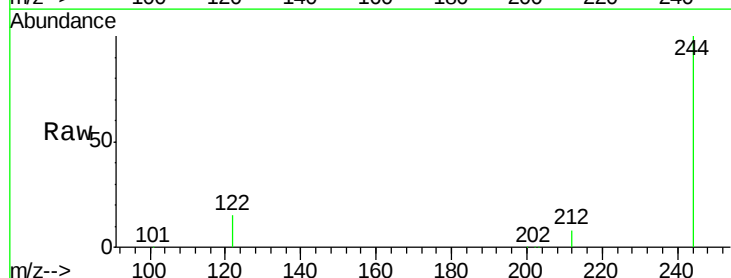
Tgt Ion:244 Resp: 200383

Ion Ratio Lower Upper

244 100

212 8.1 6.9 10.3

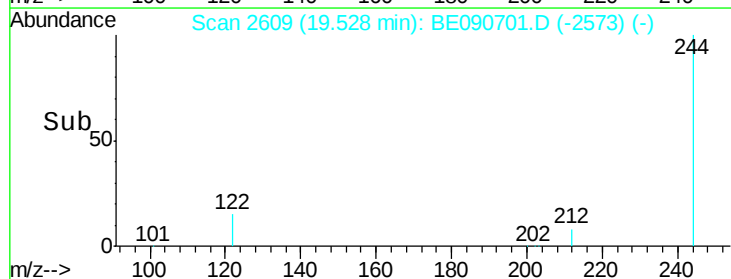
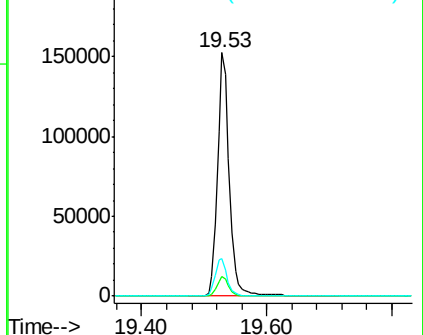
122 15.3 12.9 19.3

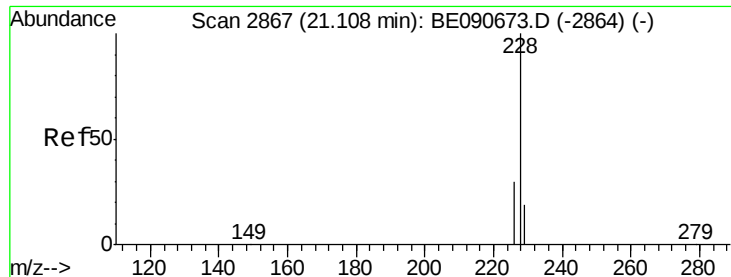


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#29

Chrysene

Concen: Below Cal

RT: 21.07 min Scan# 2860

Delta R.T. -0.04 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

Instrument :

BNA\_E

ClientSampleId :

082815-D534-F-U-B

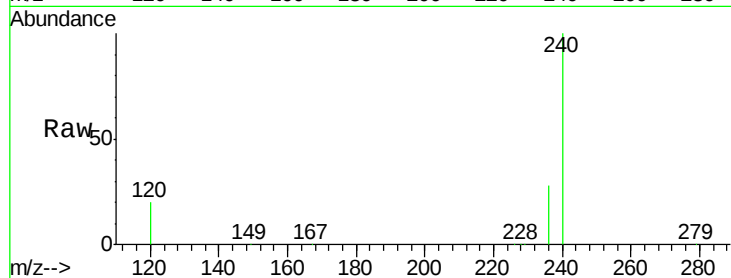
Tgt Ion:228 Resp: 1205

Ion Ratio Lower Upper

228 100

226 24.3 24.2 36.4

229 37.9 15.3 22.9#



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

21.07

600

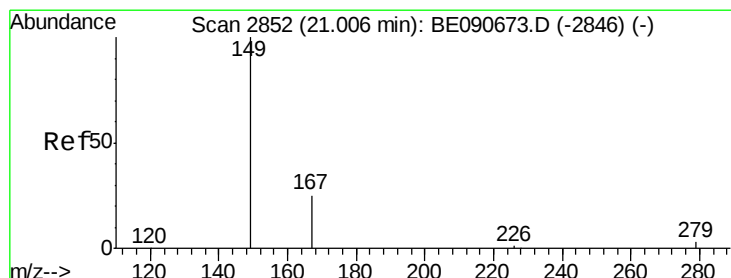
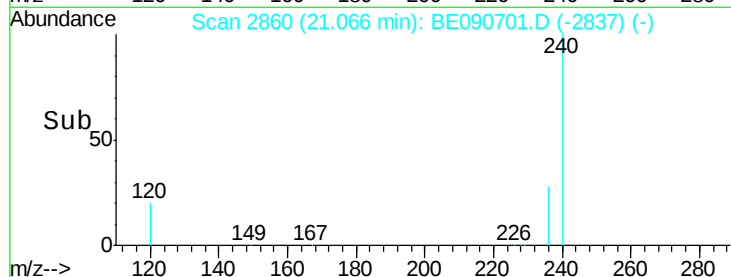
400

200

0

21.00 21.10

Time-->



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.19 ng

RT: 21.00 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BE090701.D

Acq: 2 Sep 2015 13:08

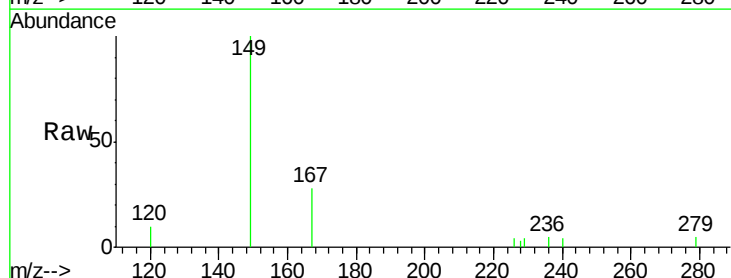
Tgt Ion:149 Resp: 2115

Ion Ratio Lower Upper

149 100

167 25.4 20.1 30.1

279 4.6 2.3 3.5#



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

21.00

2500

2000

1500

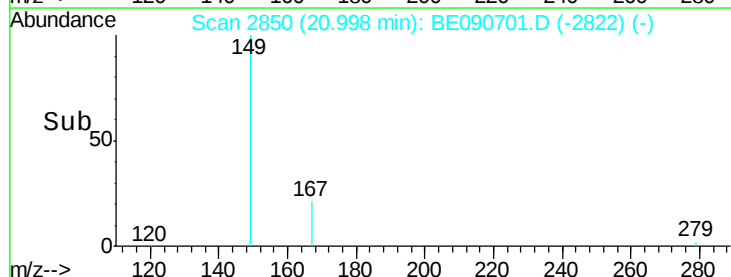
1000

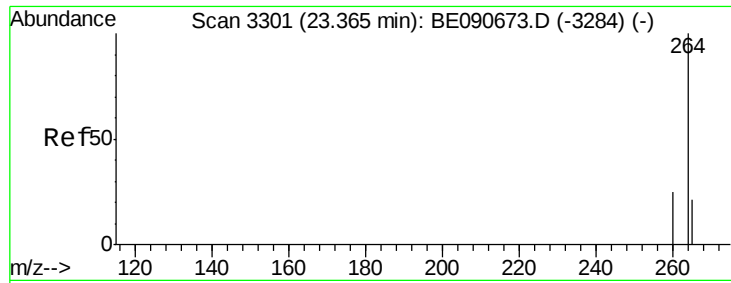
500

0

20.95 21.05

Time-->

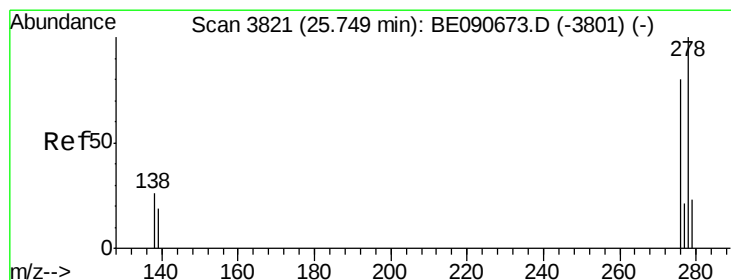
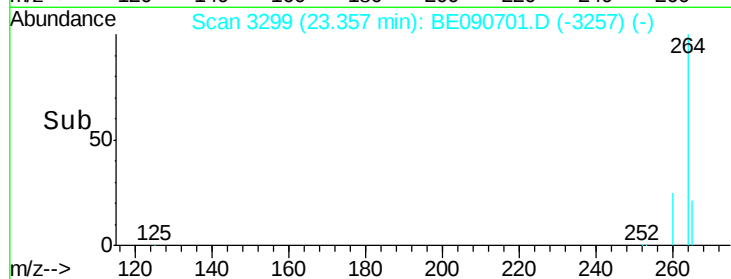
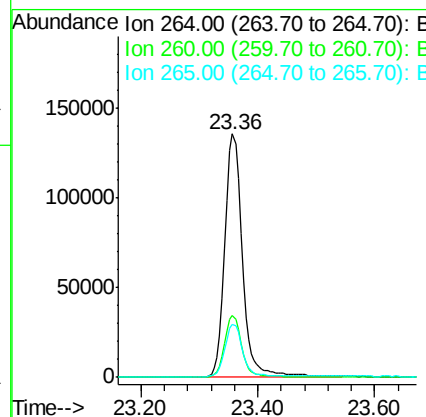
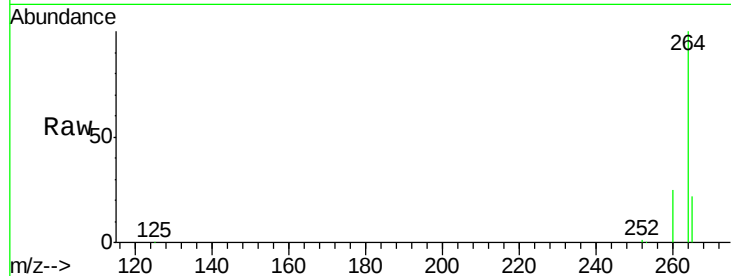




#32  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 23.36 min Scan# 3299  
 Delta R.T. -0.01 min  
 Lab File: BE090701.D  
 Acq: 2 Sep 2015 13:08

Instrument :  
 BNA\_E  
 ClientSampleId :  
 082815-D534-F-U-B

Tgt Ion: 264 Resp: 281959  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 19.7 29.5  
 265 21.7 17.5 26.3



#36  
**Dibenzo(a,h)anthracene**  
 Concen: 0.14 ng  
 RT: 25.75 min Scan# 3821  
 Delta R.T. 0.00 min  
 Lab File: BE090701.D  
 Acq: 2 Sep 2015 13:08

Tgt Ion: 278 Resp: 10  
 Ion Ratio Lower Upper  
 278 100  
 139 145.9 15.4 23.0#  
 279 127.0 18.8 28.2#

