

Data Path : Z:\HPCHEM1\BNA E\DATA\BE091615\  
 Data File : BE090852.D  
 Acq On : 16 Sep 2015 20:02  
 Operator : UM/IZ  
 Sample : G3678-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 091415-D549-E-D-M

Quant Time: Sep 17 00:57:10 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  | 37848    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.31 | 136  | 164734   | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.17 | 164  | 85583    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.91 | 188  | 217585   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.07 | 240  | 283743   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.35 | 264  | 268676   | 5.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.18  | 112  | 20784    | 2.83 | ng    | 0.00     |
| 5) Phenol-d6                | 6.75  | 99   | 17852    | 1.69 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.71  | 82   | 32477    | 2.98 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.67 | 330  | 12862    | 5.18 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.79 | 172  | 72726    | 3.07 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.52 | 244  | 130181   | 4.15 | ng    | -0.02    |

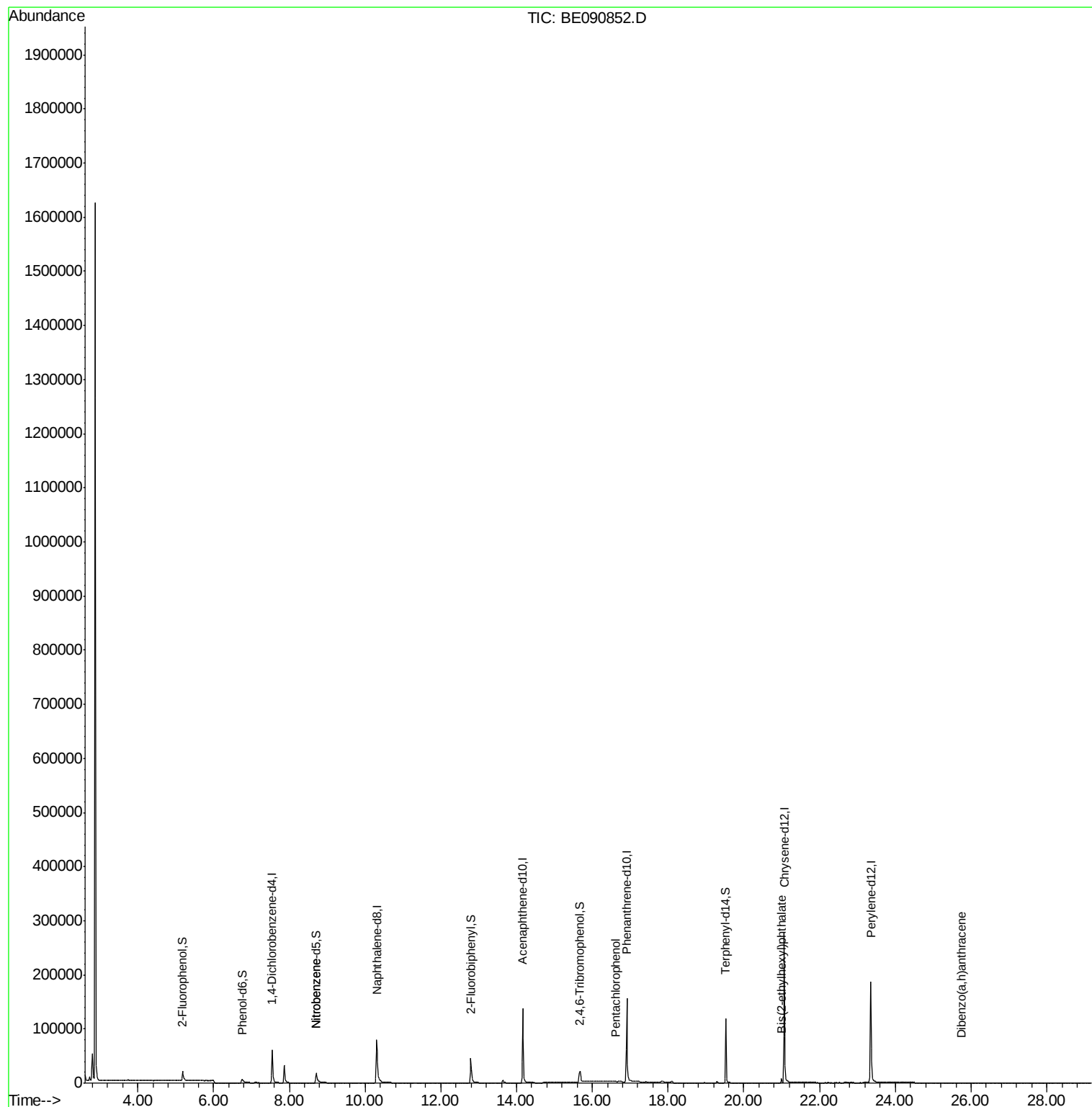
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.16  | 88   | 132      | Below Cal | #     | 46     |
| 3) n-Nitrosodimethylamine      | 3.45  | 42   | 68       | Below Cal | #     | 20     |
| 8) Nitrobenzene                | 8.71  | 77   | 34       | 0.11 ng   | #     | 1      |
| 20) Hexachlorobenzene          | 16.23 | 284  | 86       | Below Cal | #     | 1      |
| 21) Pentachlorophenol          | 16.61 | 266  | 17       | 0.46 ng   | #     | 63     |
| 29) Chrysene                   | 21.10 | 228  | 329      | Below Cal | #     | 64     |
| 30) Bis(2-ethylhexyl)phthalate | 20.99 | 149  | 7736     | 0.53 ng   | #     | 99     |
| 36) Dibenzo(a,h)anthracene     | 25.73 | 278  | 27       | 0.14 ng   | #     | 1      |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.55 min Scan# 837

Delta R.T. -0.01 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

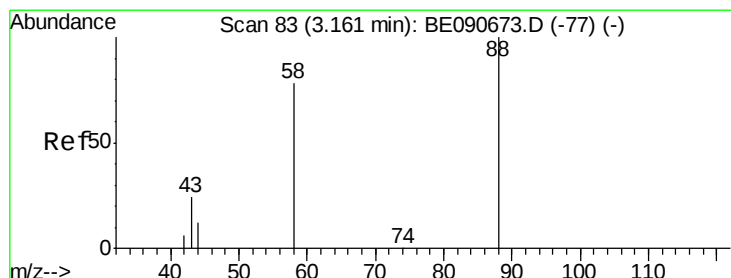
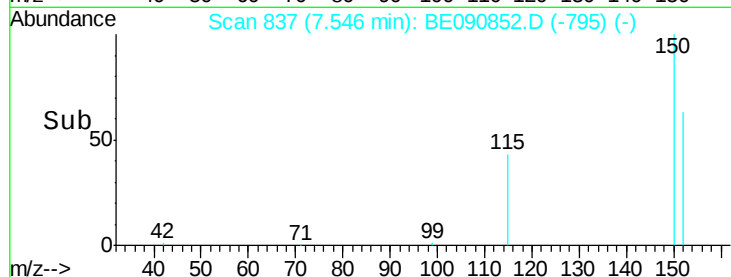
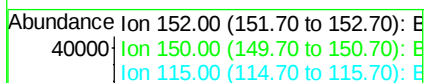
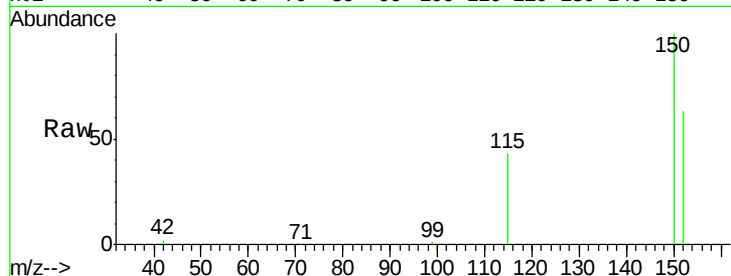
Tot Ion:152 Resp: 37848

Ion Ratio Lower Upper

152 100

150 158.3 122.2 183.4

115 68.7 51.0 76.4



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.16 min Scan# 82

Delta R.T. -0.01 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

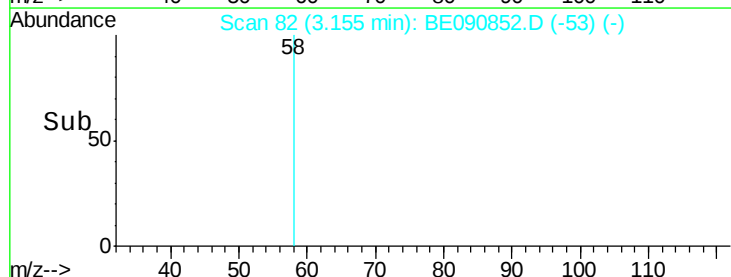
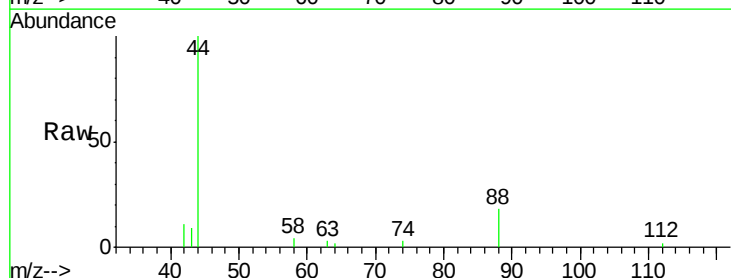
Tgt Ion: 88 Resp: 132

Ion Ratio Lower Upper

88 100

58 43.2 68.4 102.6#

43 76.5 26.9 40.3#



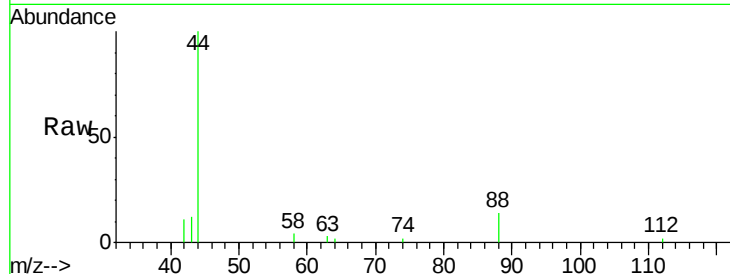


#3

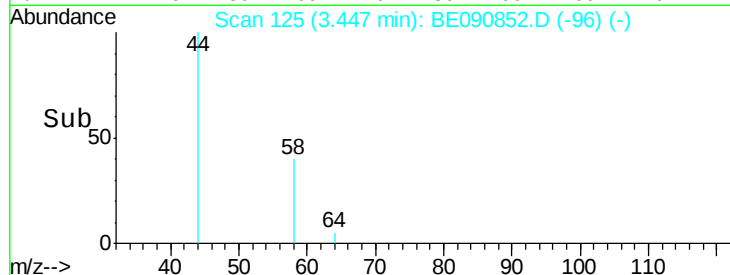
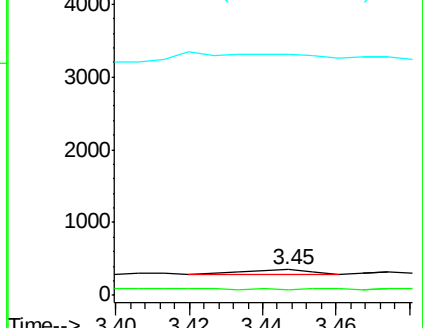
n-Nitrosodimethylamine  
 Concen: Below Cal  
 RT: 3.45 min Scan# 125  
 Delta R.T. -0.01 min  
 Lab File: BE090852.D  
 Acq: 16 Sep 2015 20:02

Instrument :  
 BNA\_E  
 ClientSampleId :  
 091415-D549-E-D-M

Tot Ion: 42 Resp: 68  
 Ion Ratio Lower Upper  
 42 100  
 74 16.2 83.7 125.5#  
 44 0.0 10.0 15.0#



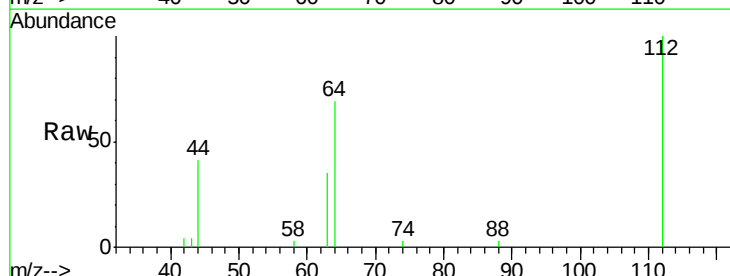
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



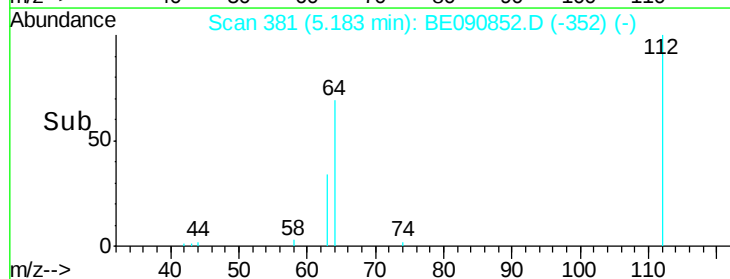
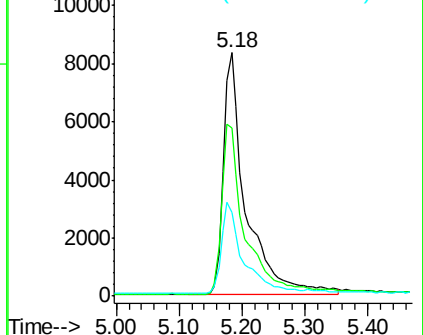
#4

2-Fluorophenol  
 Concen: 2.83 ng  
 RT: 5.18 min Scan# 381  
 Delta R.T. -0.00 min  
 Lab File: BE090852.D  
 Acq: 16 Sep 2015 20:02

Tgt Ion: 112 Resp: 20784  
 Ion Ratio Lower Upper  
 112 100  
 64 72.5 57.3 85.9  
 63 38.2 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: 1.69 ng

RT: 6.75 min Scan# 662

Delta R.T. -0.00 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

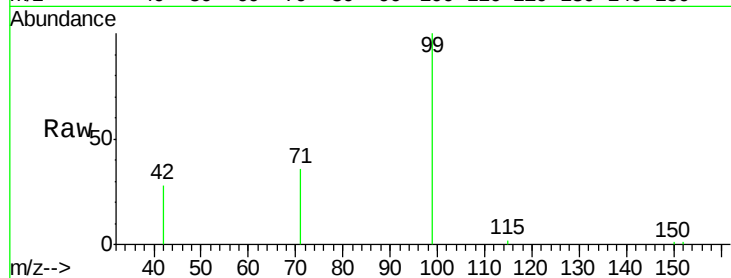
Tot Ion: 99 Resp: 17852

Ion Ratio Lower Upper

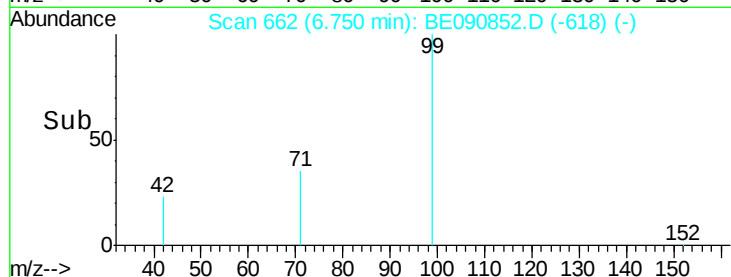
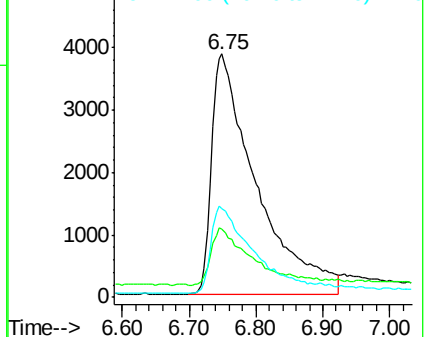
99 100

42 22.6 16.8 25.2

71 36.7 28.3 42.5



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: 10.31 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Tgt Ion: 136 Resp: 164734

Ion Ratio Lower Upper

136 100

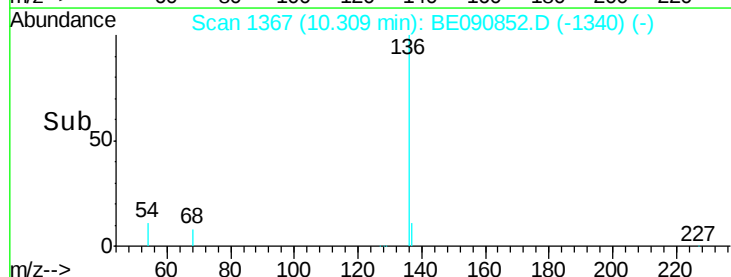
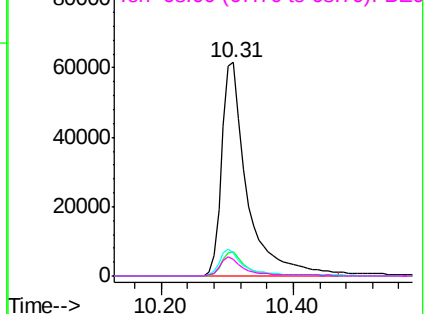
137 11.1 8.7 13.1

54 10.9 9.0 13.6

68 7.8 6.3 9.5



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





#7

Nitrobenzene-d5

Concen: 2.98 ng

RT: 8.71 min Scan# 1089

Delta R.T. 0.01 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

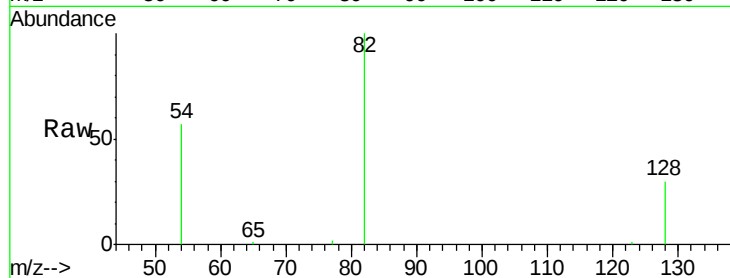
Tot Ion: 82 Resp: 32477

Ion Ratio Lower Upper

82 100

128 29.9 25.0 37.4

54 57.3 46.3 69.5



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

8.71

12000

10000

8000

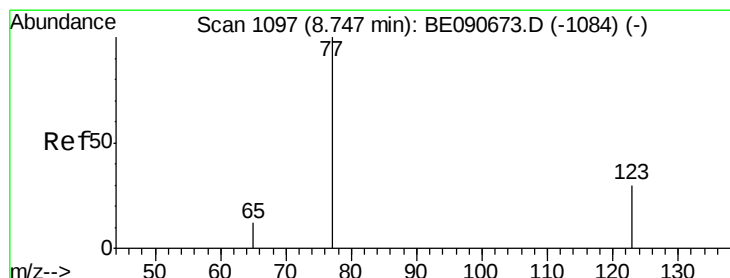
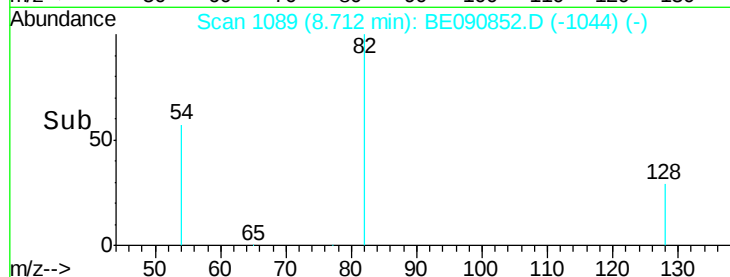
6000

4000

2000

0

Time-->



#8

Nitrobenzene

Concen: 0.11 ng

RT: 8.71 min Scan# 1088

Delta R.T. -0.04 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

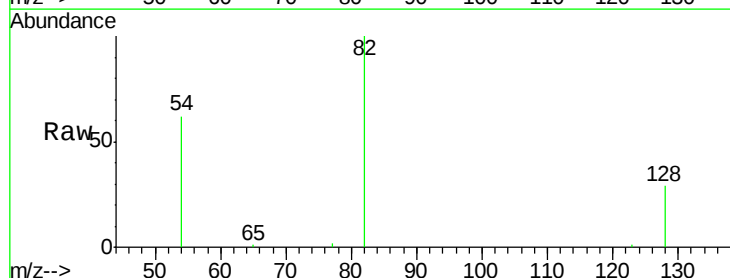
Tgt Ion: 77 Resp: 34

Ion Ratio Lower Upper

77 100

123 0.0 25.1 37.7#

65 126.5 9.9 14.9#



Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

8.71

200

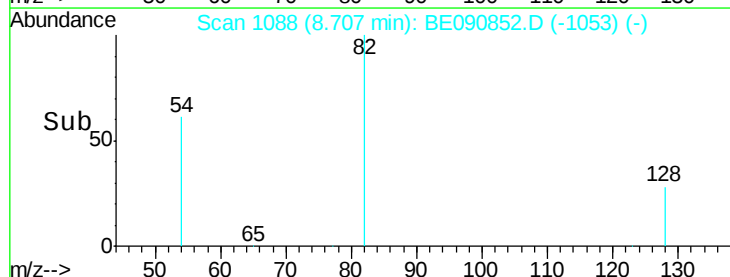
150

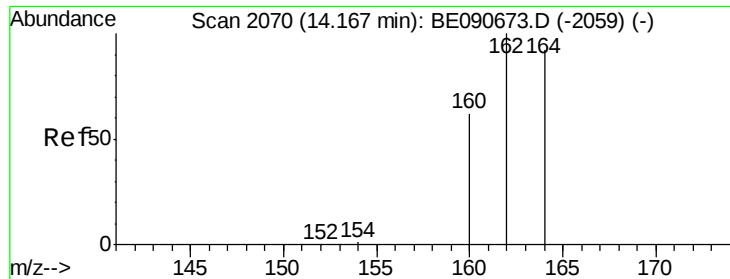
100

50

0

Time-->





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.17 min Scan# 2070

Delta R.T. 0.00 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

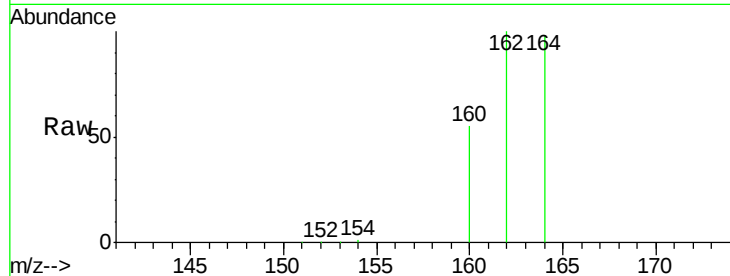
Tot Ion:164 Resp: 85583

Ion Ratio Lower Upper

164 100

162 102.0 86.8 130.2

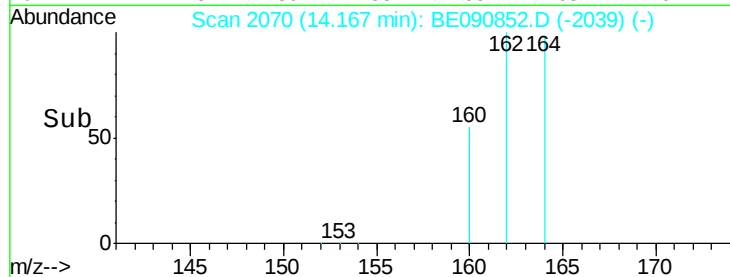
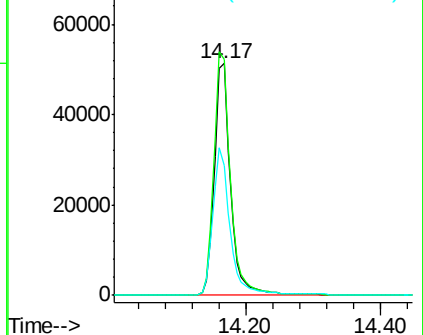
160 55.9 53.9 80.9



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



#13

2,4,6-Tribromophenol

Concen: 5.18 ng

RT: 15.67 min Scan# 2204

Delta R.T. -0.00 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

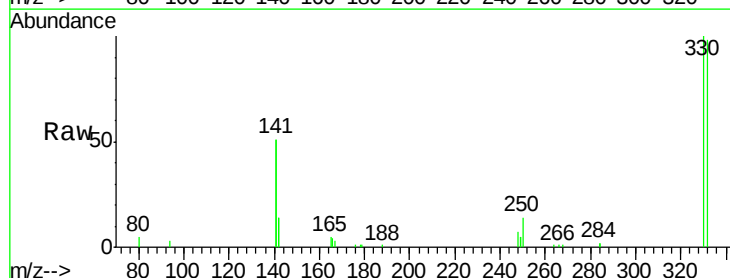
Tgt Ion:330 Resp: 12862

Ion Ratio Lower Upper

330 100

332 96.8 74.9 112.3

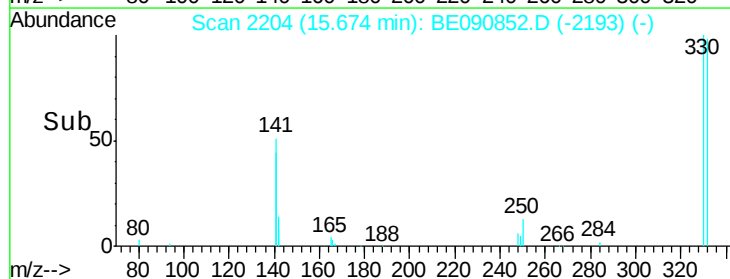
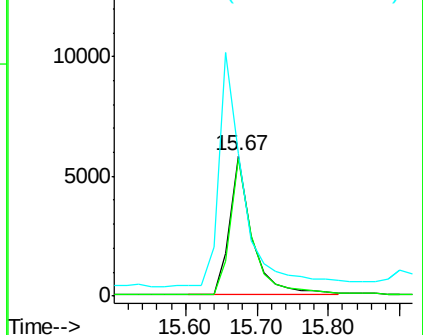
141 180.4 145.2 217.8

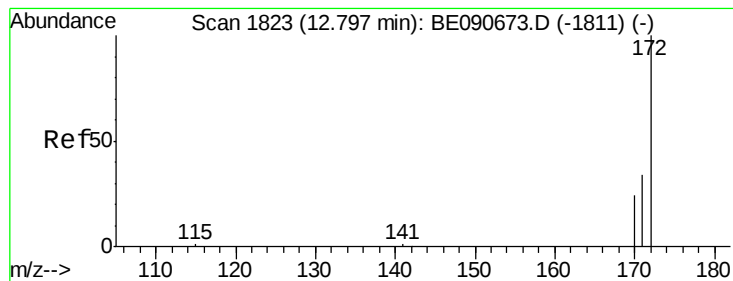


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

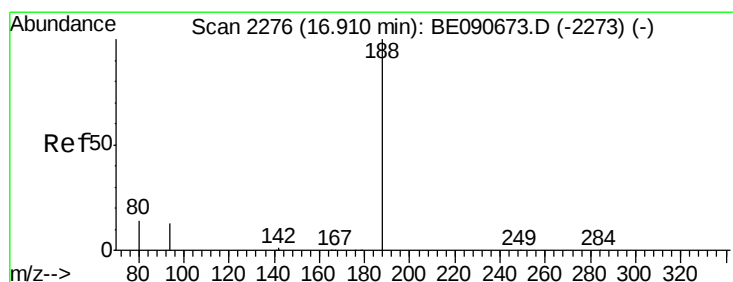
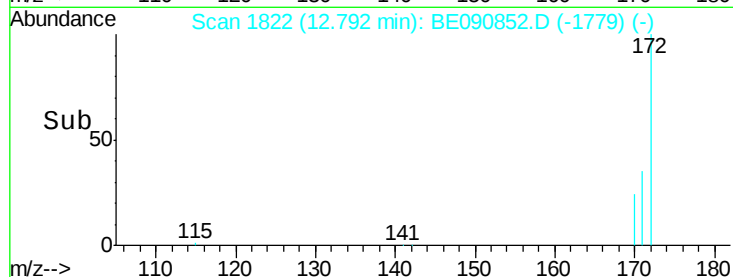
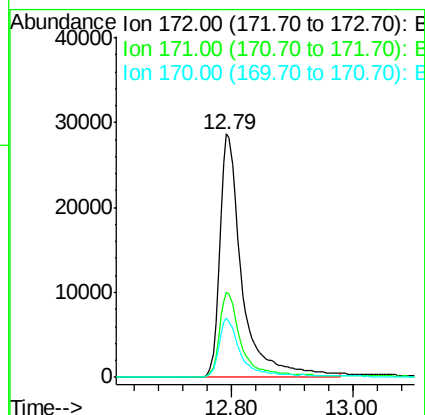
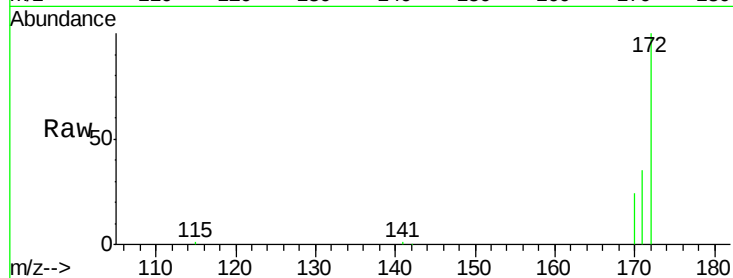




#14  
2-Fluorobiphenyl  
Concen: 3.07 ng  
RT: 12.79 min Scan# 1822  
Delta R.T. -0.01 min  
Lab File: BE090852.D  
Acq: 16 Sep 2015 20:02

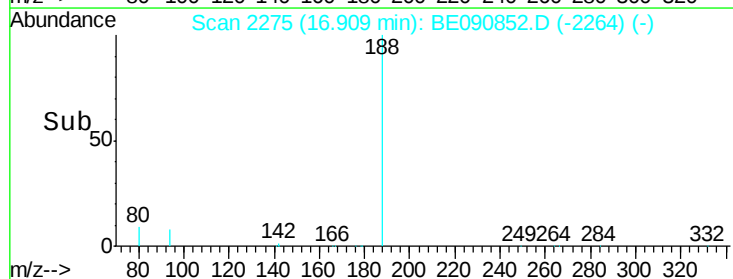
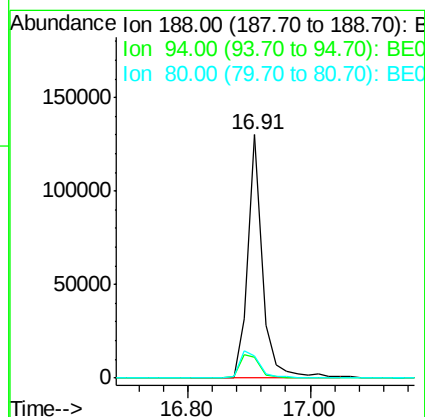
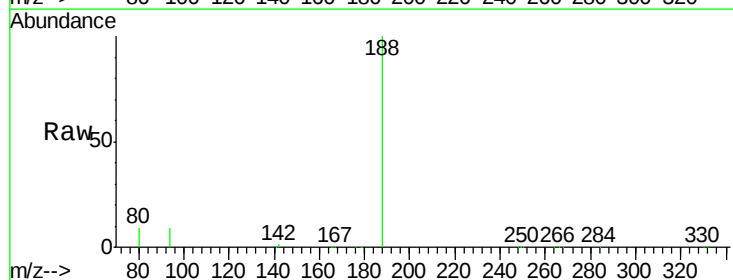
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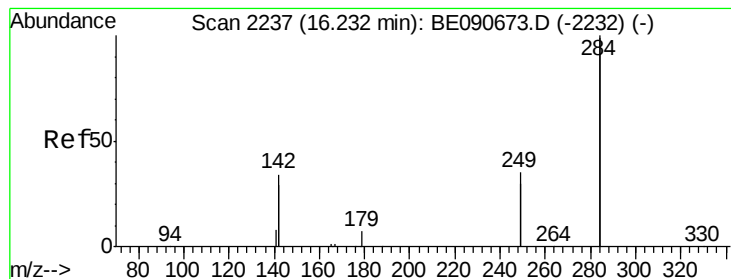
Tot Ion:172 Resp: 72726  
Ion Ratio Lower Upper  
172 100  
171 34.9 27.8 41.8  
170 24.3 19.8 29.6



#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 16.91 min Scan# 2275  
Delta R.T. -0.00 min  
Lab File: BE090852.D  
Acq: 16 Sep 2015 20:02

Tgt Ion:188 Resp: 217585  
Ion Ratio Lower Upper  
188 100  
94 8.6 10.3 15.5#  
80 9.1 11.0 16.6#





#20

Hexachlorobenzene

Concen: Below Cal

RT: 16.23 min Scan# 2236

Delta R.T. -0.00 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

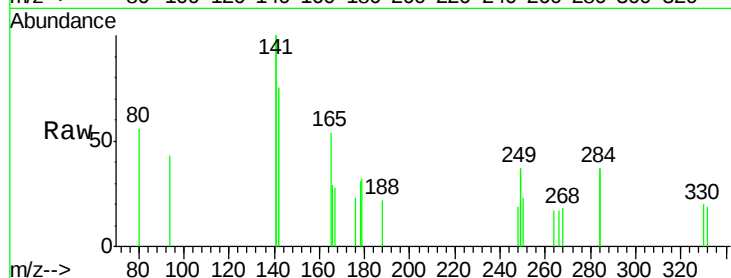
Tot Ion:284 Resp: 86

Ion Ratio Lower Upper

284 100

142 255.8 35.0 52.4#

249 31.4 25.5 38.3

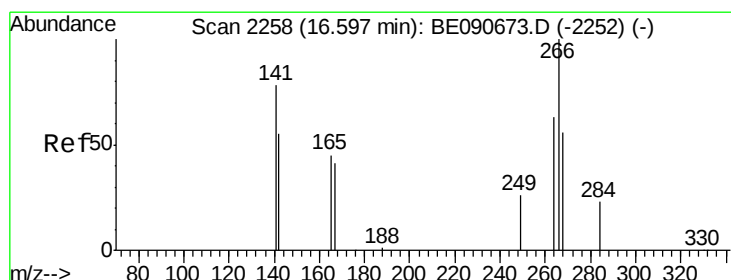
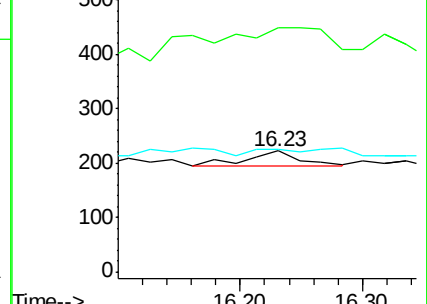
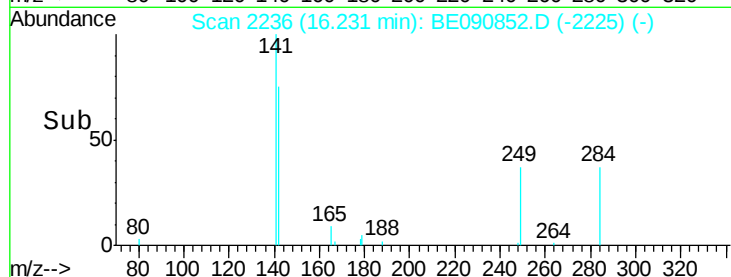


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

Time-->



#21

Pentachlorophenol

Concen: 0.46 ng

RT: 16.61 min Scan# 2258

Delta R.T. 0.02 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

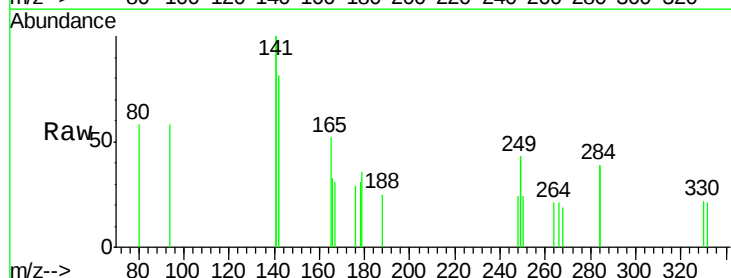
Tgt Ion:266 Resp: 17

Ion Ratio Lower Upper

266 100

268 90.9 49.6 74.4#

264 96.4 53.9 80.9#

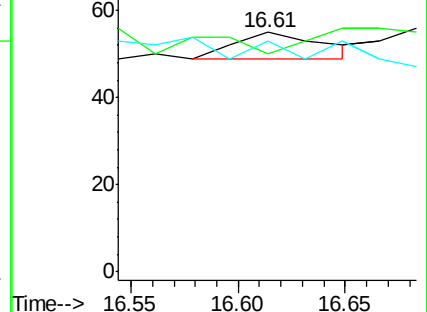
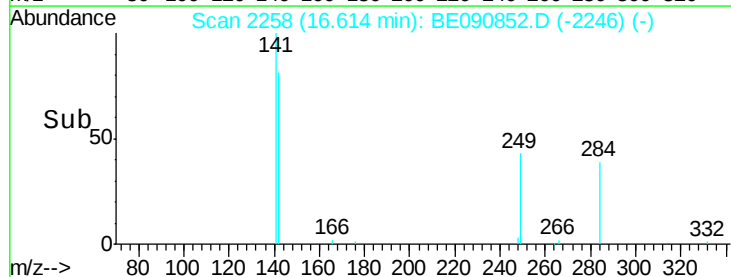


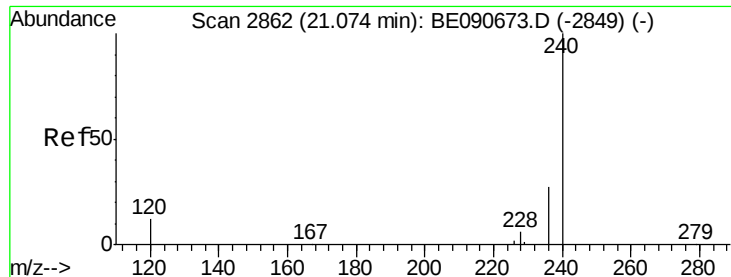
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

Time-->





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.07 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

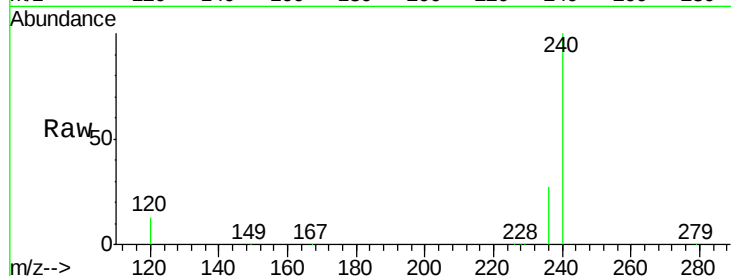
Tot Ion:240 Resp: 283743

Ion Ratio Lower Upper

240 100

120 13.2 10.1 15.1

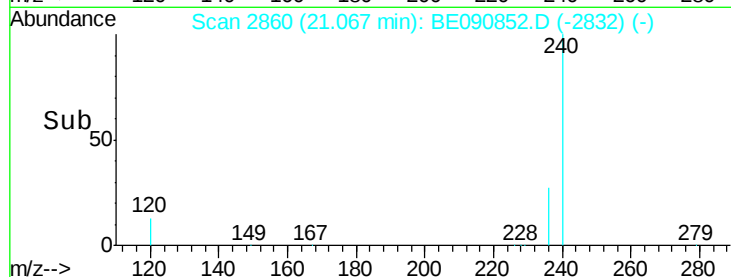
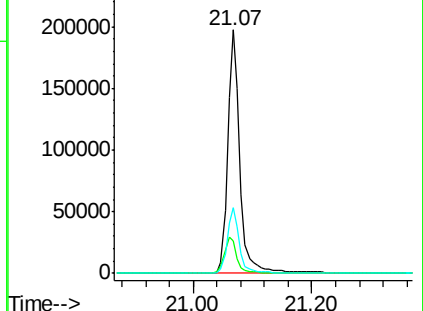
236 26.8 21.9 32.9



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: 4.15 ng

RT: 19.52 min Scan# 2607

Delta R.T. -0.02 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

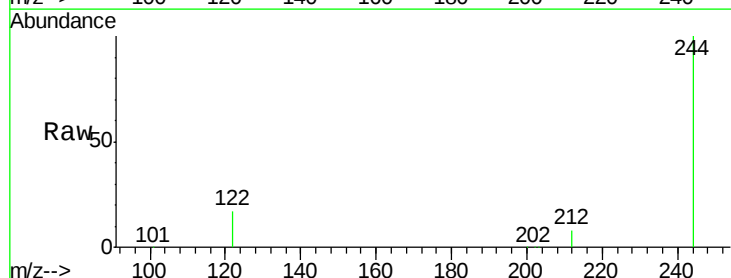
Tgt Ion:244 Resp: 130181

Ion Ratio Lower Upper

244 100

212 8.4 6.9 10.3

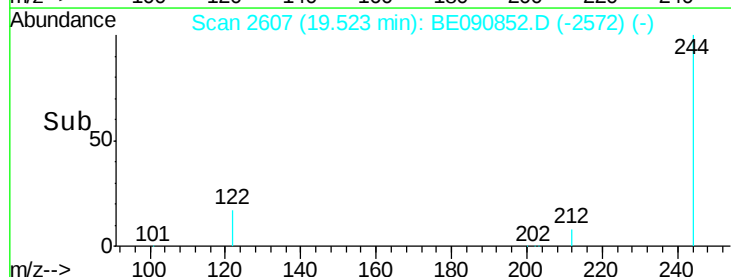
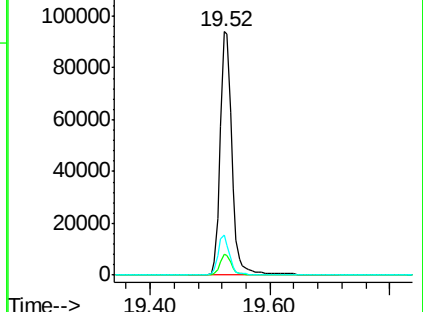
122 16.7 12.9 19.3



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: 21.10 min Scan# 2865

Delta R.T. -0.01 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

Instrument :

BNA\_E

ClientSampleId :

091415-D549-E-D-M

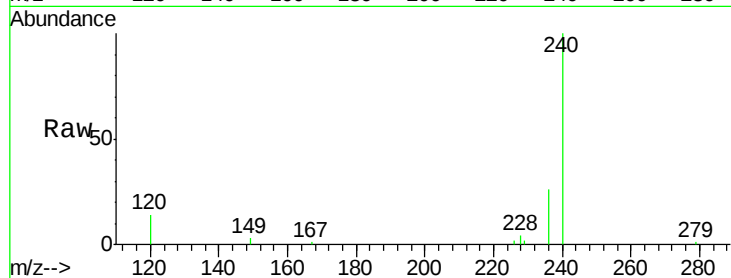
Tot Ion:228 Resp: 329

Ion Ratio Lower Upper

228 100

226 45.2 24.2 36.4#

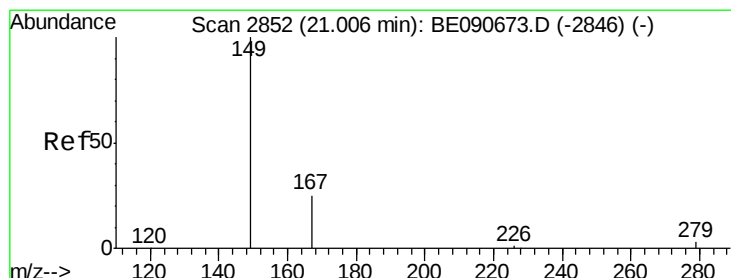
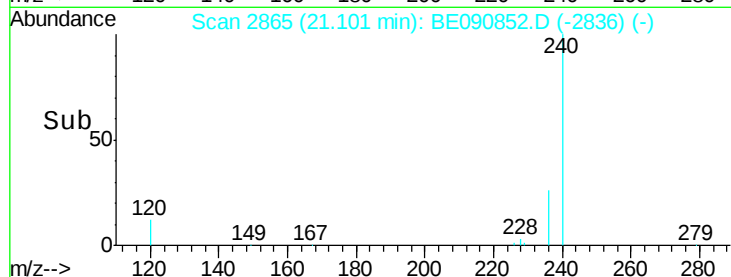
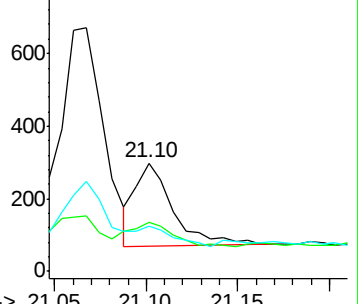
229 42.1 15.3 22.9#



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.53 ng

RT: 20.99 min Scan# 2849

Delta R.T. -0.01 min

Lab File: BE090852.D

Acq: 16 Sep 2015 20:02

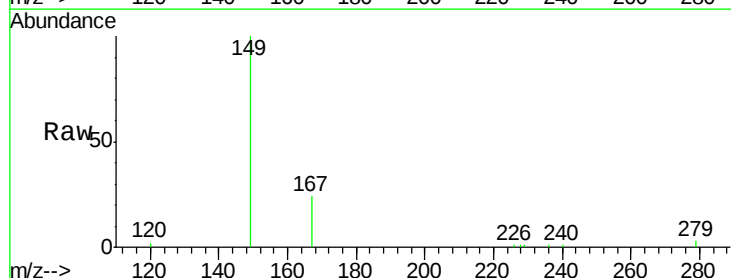
Tgt Ion:149 Resp: 7736

Ion Ratio Lower Upper

149 100

167 24.6 20.1 30.1

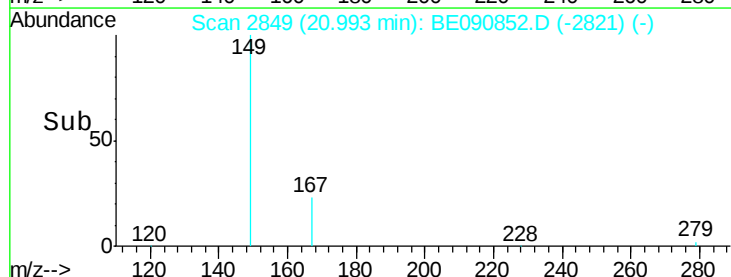
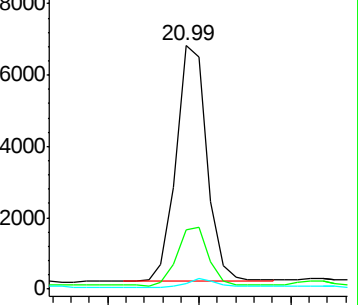
279 3.1 2.3 3.5



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

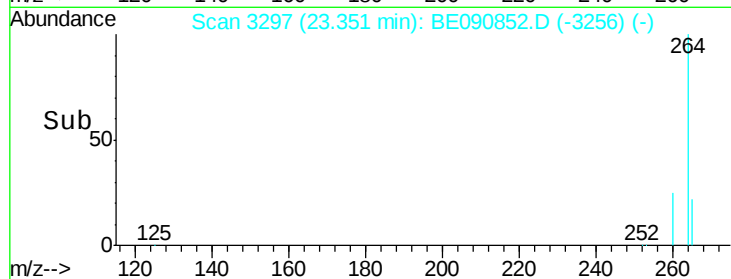
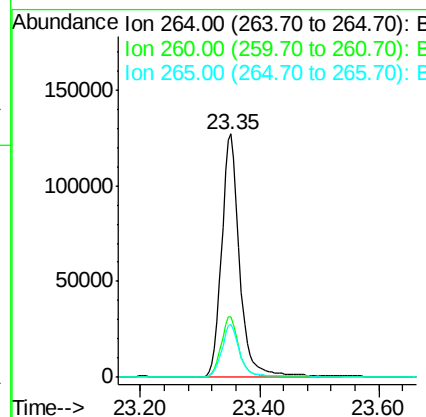
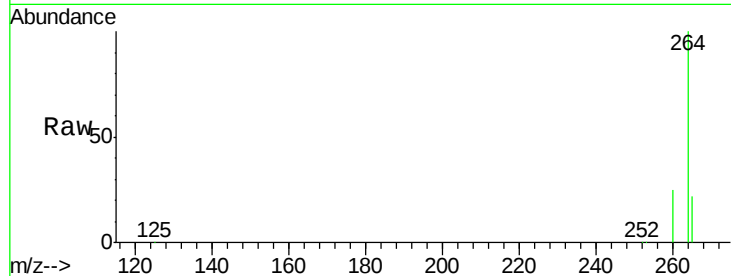




#32  
Pervlene-d12  
Concen: 5.00 ng  
RT: 23.35 min Scan# 3297  
Delta R.T. -0.01 min  
Lab File: BE090852.D  
Acq: 16 Sep 2015 20:02

Instrument :  
BNA\_E  
ClientSampleId :  
091415-D549-E-D-M

Tot Ion:264 Resp: 268676  
Ion Ratio Lower Upper  
264 100  
260 25.0 19.7 29.5  
265 21.8 17.5 26.3



#36  
Dibenzo(a,h)anthracene  
Concen: 0.14 ng  
RT: 25.73 min Scan# 3816  
Delta R.T. -0.02 min  
Lab File: BE090852.D  
Acq: 16 Sep 2015 20:02

Tgt Ion:278 Resp: 27  
Ion Ratio Lower Upper  
278 100  
139 116.7 15.4 23.0#  
279 103.8 18.8 28.2#

