

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081115\  
 Data File : BE090435.D  
 Acq On : 11 Aug 2015 19:24  
 Operator : UM/IZ  
 Sample : G3135-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 080815-D506-E-D-M

Quant Time: Aug 12 04:14:47 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  | 19619    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8         | 10.34 | 136  | 90643    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.19 | 164  | 53034    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 16.94 | 188  | 122393   | 5.00 | ng    | 0.00     |
| 25) Chrysene-d12          | 21.09 | 240  | 144577   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12          | 23.40 | 264  | 130599   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.21  | 112  | 14122    | 4.80 | ng    | 0.00     |
| 5) Phenol-d6                | 6.77  | 99   | 12799    | 2.19 | ng    | 0.00     |
| 7) Nitrobenzene-d5          | 8.73  | 82   | 23838    | 3.30 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol    | 15.71 | 330  | 15153    | 8.87 | ng    | 0.00     |
| 14) 2-Fluorobiphenyl        | 12.82 | 172  | 60107    | 4.12 | ng    | 0.00     |
| 27) Terphenyl-d14           | 19.55 | 244  | 114562   | 5.38 | ng    | -0.01    |

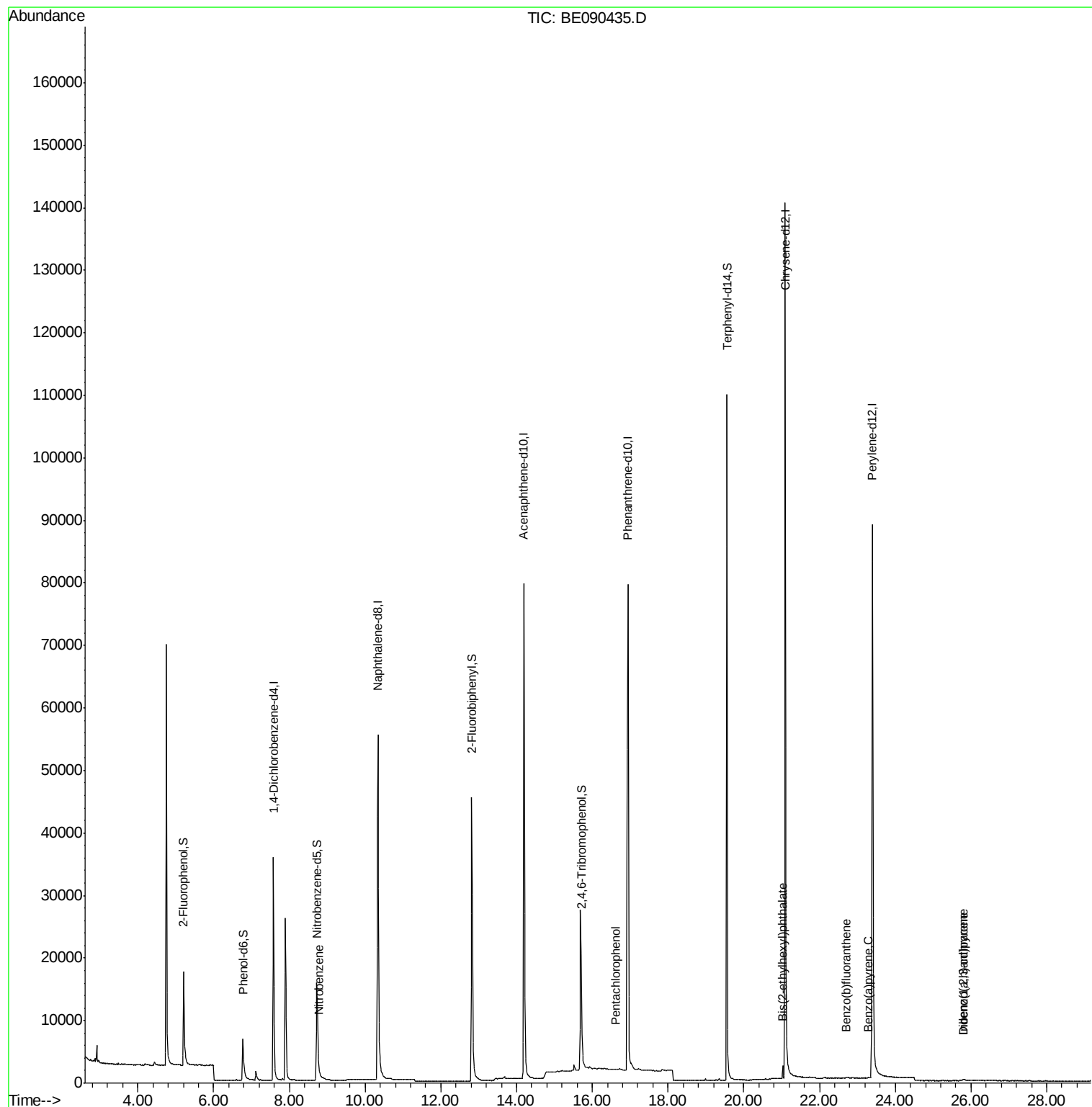
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.20  | 88   | 117      | Below Cal | #     | 48     |
| 8) Nitrobenzene                | 8.78  | 77   | 11       | 0.21 ng   | #     | 39     |
| 10) Hexachlorobutadiene        | 10.69 | 225  | 5        | Below Cal | #     | 70     |
| 21) Pentachlorophenol          | 16.61 | 266  | 11       | 0.10 ng   | #     | 69     |
| 30) Bis(2-ethylhexyl)phthalate | 21.03 | 149  | 1888     | 0.35 ng   | #     | 99     |
| 31) Indeno(1,2,3-cd)pyrene     | 25.78 | 276  | 416      | 0.26 ng   | #     | 66     |
| 33) Benzo(b)fluoranthene       | 22.70 | 252  | 214      | 0.20 ng   | #     | 1      |
| 35) Benzo(a)pyrene             | 23.30 | 252  | 260      | 0.24 ng   | #     | 1      |
| 36) Dibenzo(a,h)anthracene     | 25.81 | 278  | 383      | 0.30 ng   | #     | 17     |

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

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Quant Time: Aug 12 04:14:47 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 845

Delta R.T. -0.00 min

Lab File: BE090435.D

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Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M

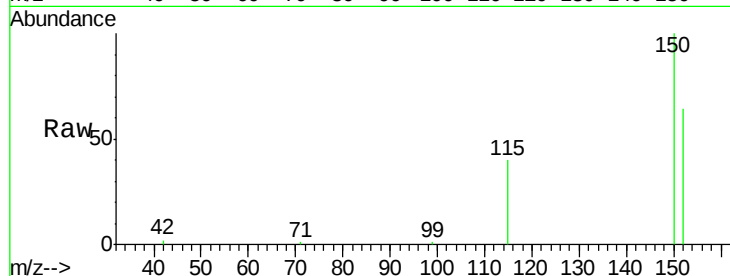
Tgt Ion: 152 Resp: 19619

Ion Ratio Lower Upper

152 100

150 157.3 123.0 184.4

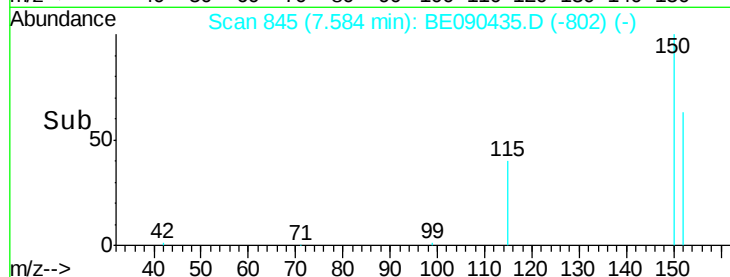
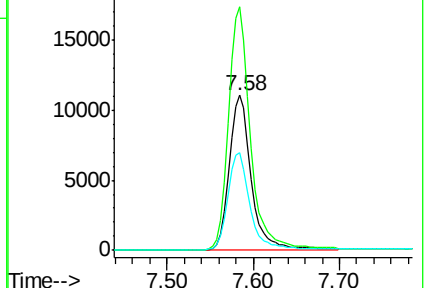
115 62.9 48.9 73.3



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: 3.20 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

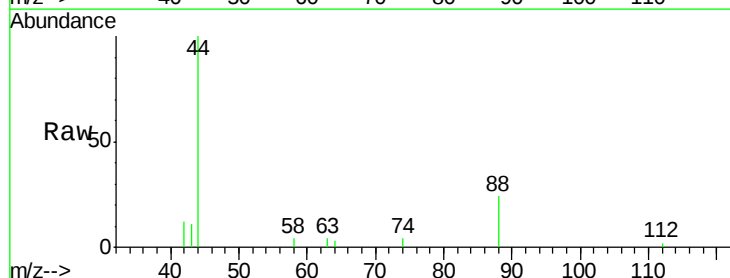
Tgt Ion: 88 Resp: 117

Ion Ratio Lower Upper

88 100

58 27.4 70.0 105.0#

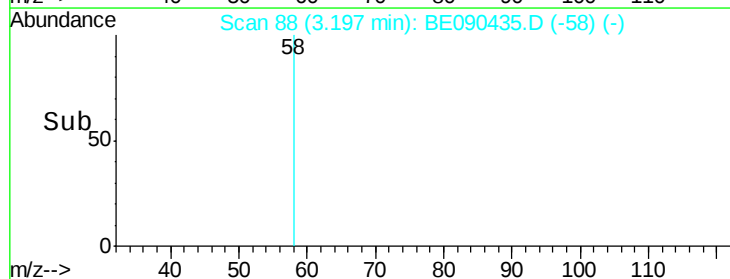
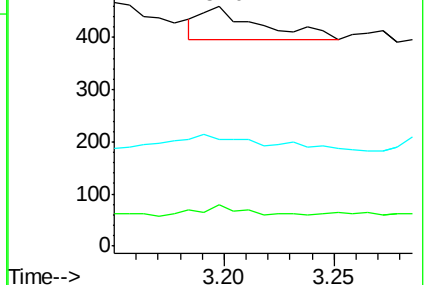
43 47.9 28.4 42.6#



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: 4.80 ng

RT: 5.21 min Scan# 385

Delta R.T. -0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M

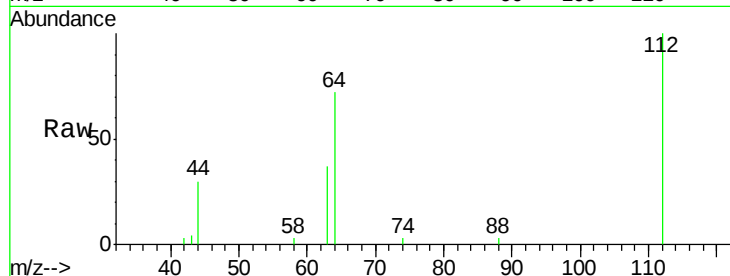
Tgt Ion: 112 Resp: 14122

Ion Ratio Lower Upper

112 100

64 71.3 37.1 55.7#

63 36.4 19.5 29.3#



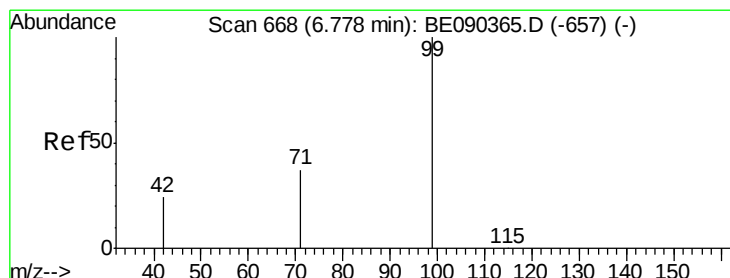
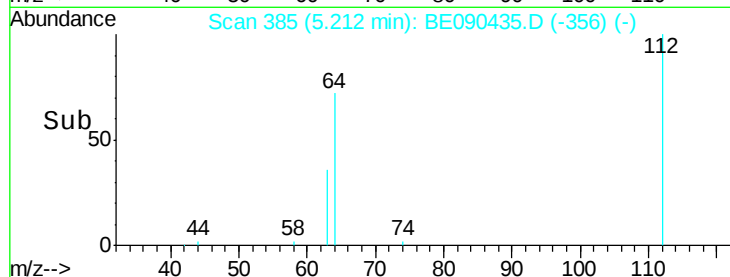
Abundance Ion 112.00 (111.70 to 112.70): BE090435.D (-380) (-)

Ion 64.00 (63.70 to 64.70): BE090435.D (-380) (-)

Ion 63.00 (62.70 to 63.70): BE090435.D (-380) (-)

5.21

Time-->



#5

Phenol-d6

Concen: 2.19 ng

RT: 6.77 min Scan# 667

Delta R.T. -0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

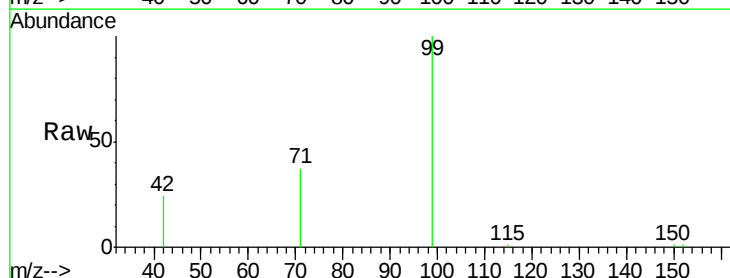
Tgt Ion: 99 Resp: 12799

Ion Ratio Lower Upper

99 100

42 20.9 18.2 27.4

71 35.1 27.4 41.0



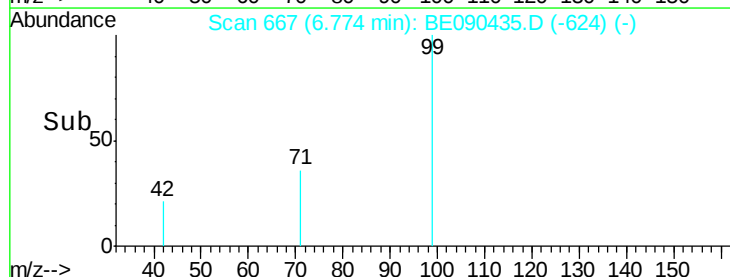
Abundance Ion 99.00 (98.70 to 99.70): BE090435.D (-657) (-)

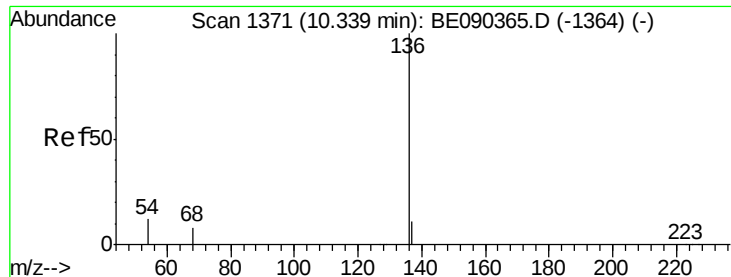
Ion 42.00 (41.70 to 42.70): BE090435.D (-657) (-)

Ion 71.00 (70.70 to 71.70): BE090435.D (-657) (-)

6.77

Time-->





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.34 min Scan# 1371

Delta R.T. 0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M

Tgt Ion: 136 Resp: 90643

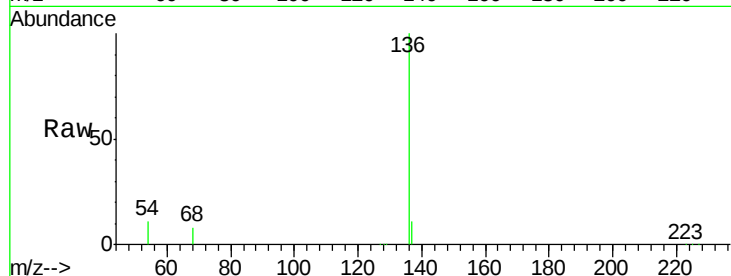
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 11.5 9.4 14.0

68 8.1 6.5 9.7

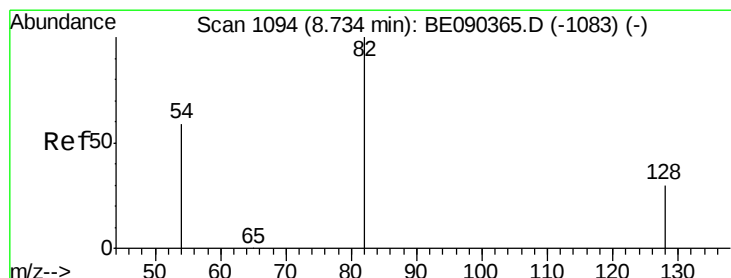
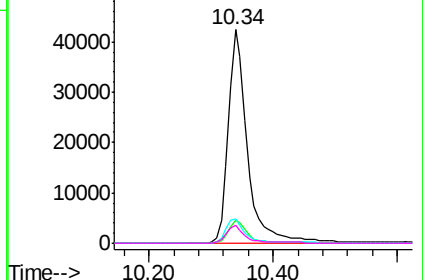
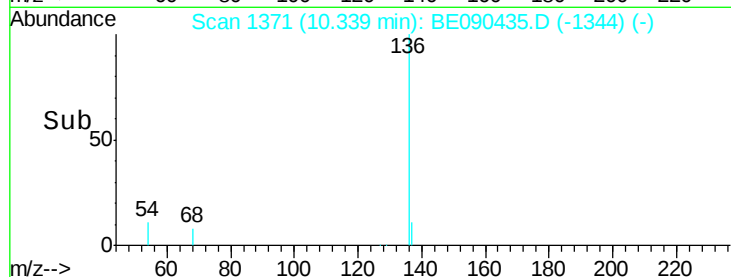


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.30 ng

RT: 8.73 min Scan# 1093

Delta R.T. -0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

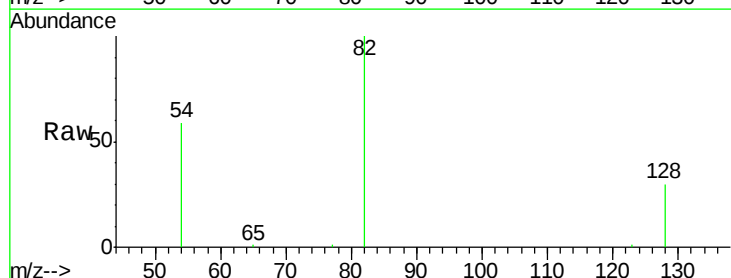
Tgt Ion: 82 Resp: 23838

Ion Ratio Lower Upper

82 100

128 29.9 25.0 37.6

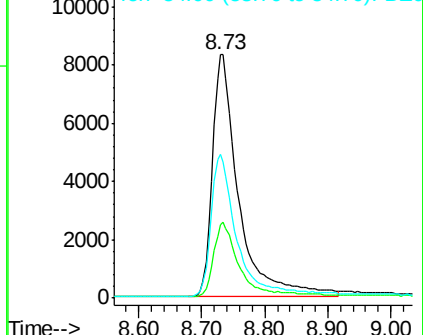
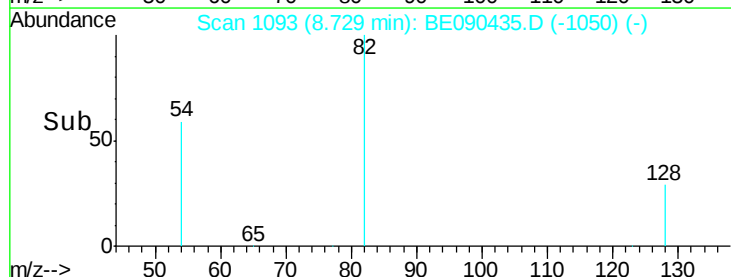
54 59.1 48.8 73.2

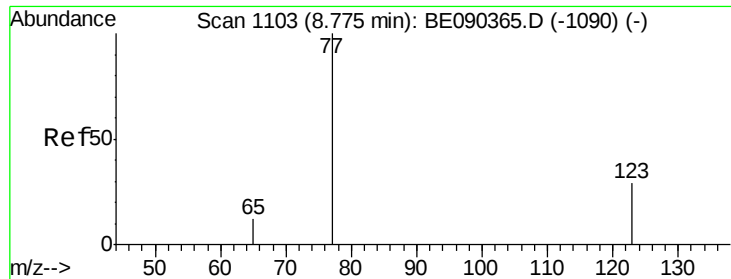


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Nitrobenzene

Concen: 0.21 ng

RT: 8.78 min Scan# 1104

Delta R.T. 0.01 min

Lab File: BE090435.D

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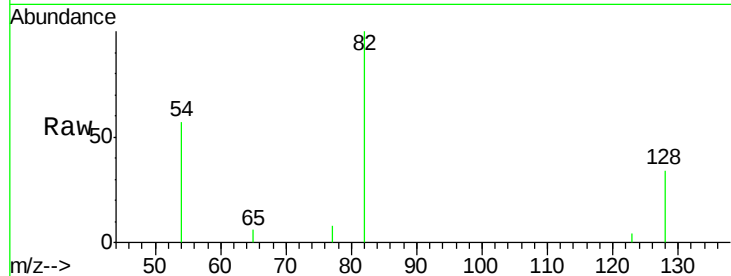
Tgt Ion: 77 Resp: 11

Ion Ratio Lower Upper

77 100

123 27.3 25.1 37.7

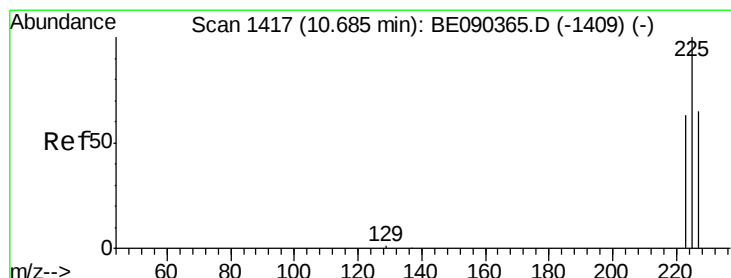
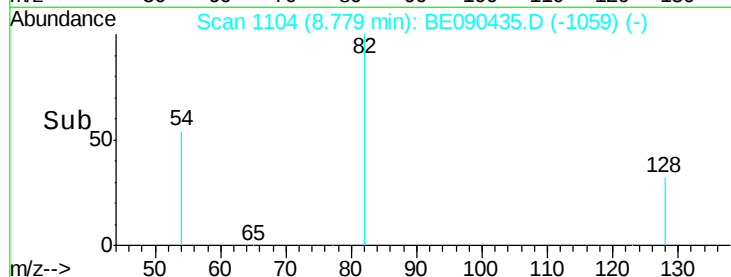
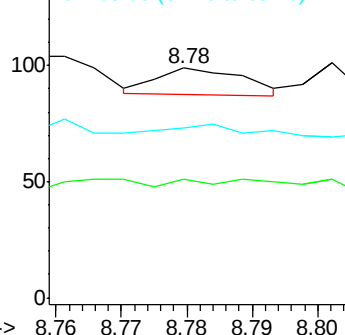
65 90.9 9.3 13.9#



Abundance Ion 77.00 (76.70 to 77.70): BE090435.D (-1090) (-)

Ion 123.00 (122.70 to 123.70): BE090435.D (-1090) (-)

Ion 65.00 (64.70 to 65.70): BE090435.D (-1090) (-)



#10

Hexachlorobutadiene

Concen: Below Cal

RT: 10.69 min Scan# 1418

Delta R.T. 0.01 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

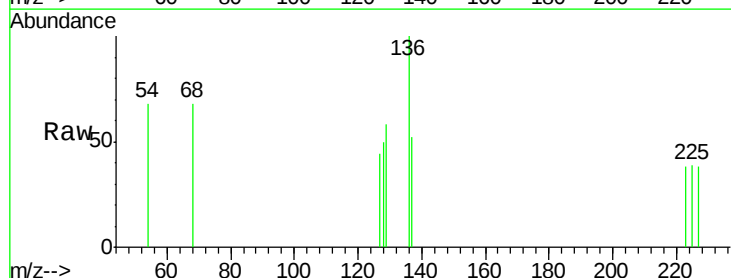
Tgt Ion: 225 Resp: 5

Ion Ratio Lower Upper

225 100

223 40.0 50.6 75.8#

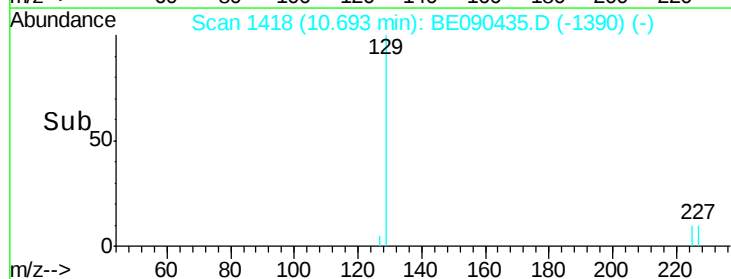
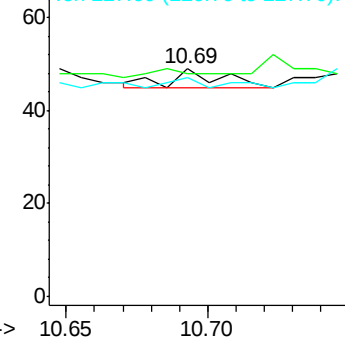
227 40.0 50.7 76.1#

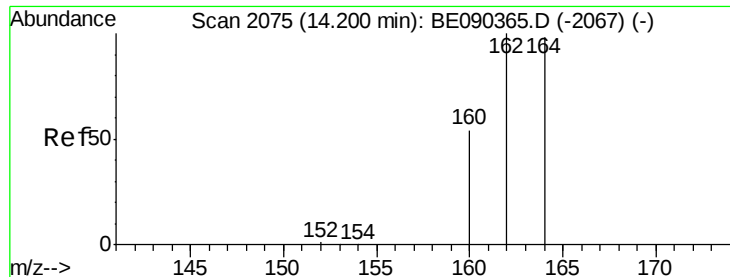


Abundance Ion 225.00 (224.70 to 225.70): BE090435.D (-1390) (-)

Ion 223.00 (222.70 to 223.70): BE090435.D (-1390) (-)

Ion 227.00 (226.70 to 227.70): BE090435.D (-1390) (-)





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.19 min Scan# 2075

Delta R.T. -0.01 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

Instrument :

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ClientSampleId :

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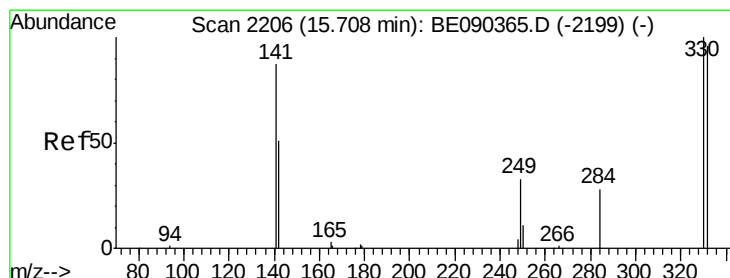
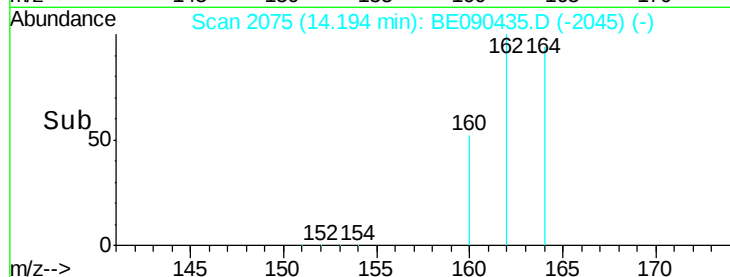
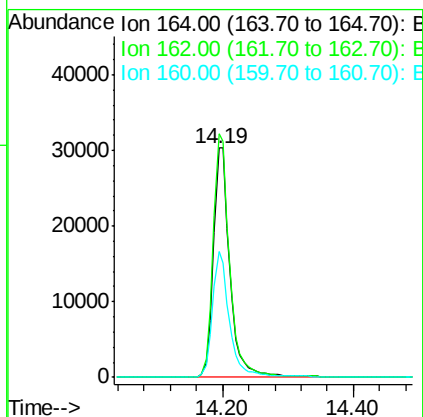
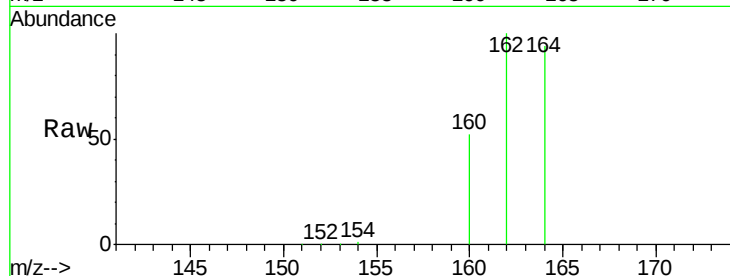
Tgt Ion:164 Resp: 53034

Ion Ratio Lower Upper

164 100

162 106.3 81.8 122.8

160 55.1 44.2 66.4



#13

2,4,6-Tribromophenol

Concen: 8.87 ng

RT: 15.71 min Scan# 2207

Delta R.T. 0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

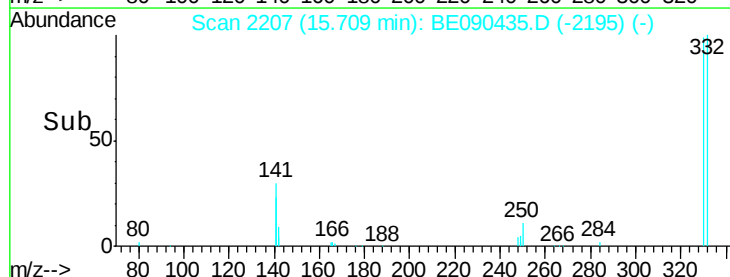
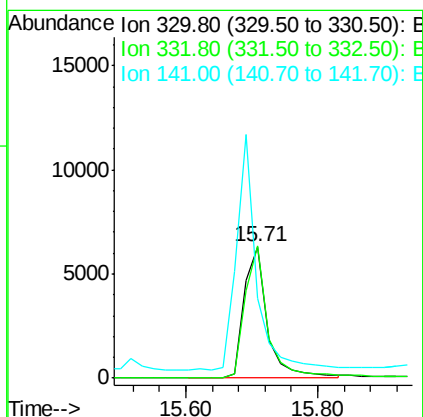
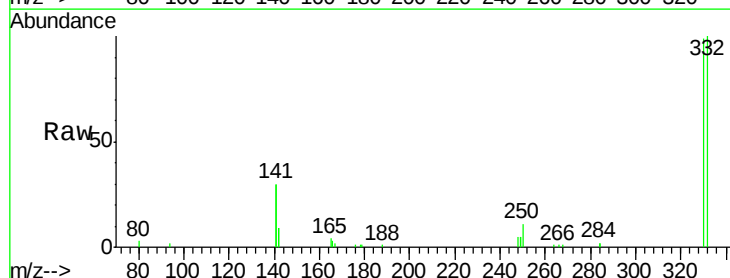
Tgt Ion:330 Resp: 15153

Ion Ratio Lower Upper

330 100

332 96.9 75.8 113.6

141 158.4 114.4 171.6

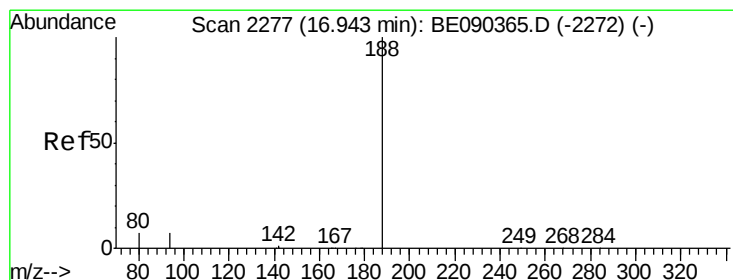
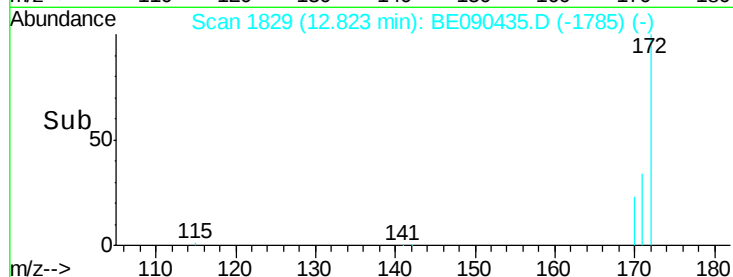
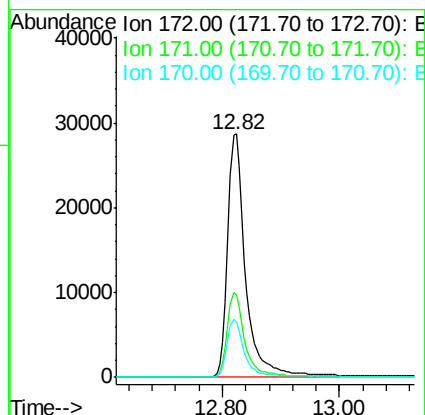
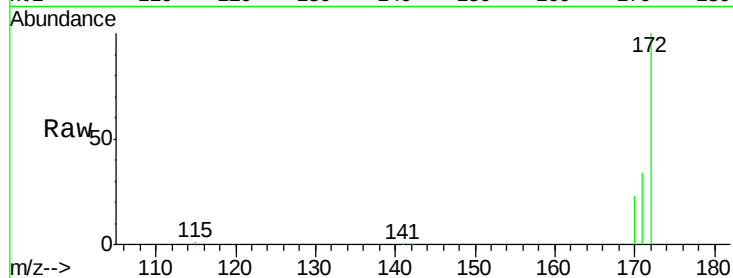




#14  
 2-Fluorobiphenyl  
 Concen: 4.12 ng  
 RT: 12.82 min Scan# 1829  
 Delta R.T. -0.00 min  
 Lab File: BE090435.D  
 Acq: 11 Aug 2015 19:24

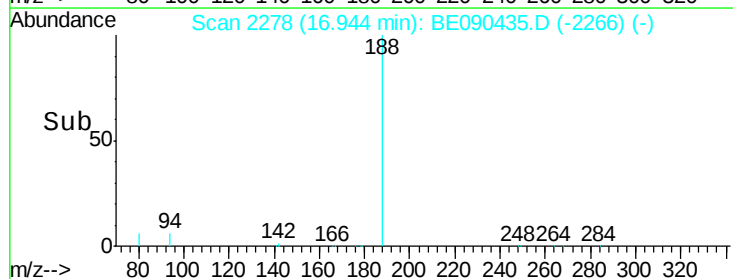
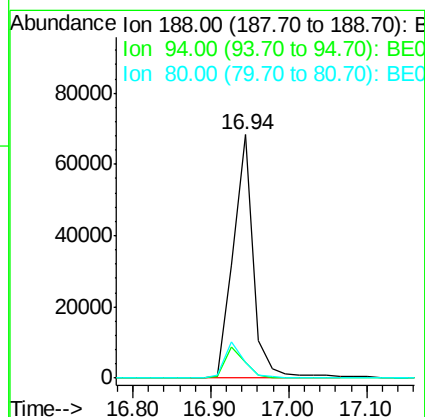
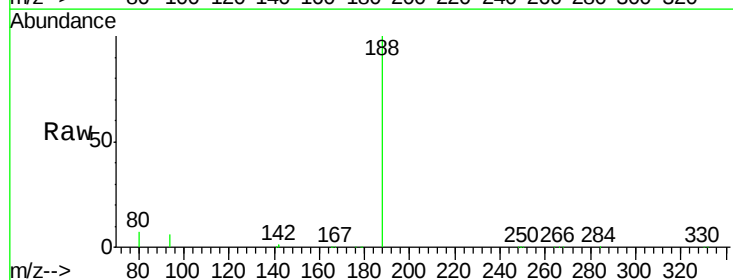
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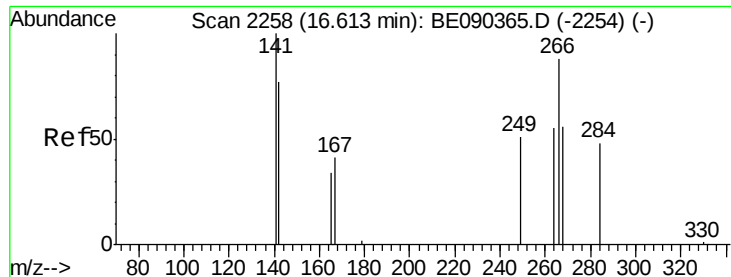
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 60107 |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 34.0  | 28.5  | 42.7  |
| 170      | 23.0  | 19.8  | 29.8  |



#18  
 Phenanthrene-d10  
 Concen: 5.00 ng  
 RT: 16.94 min Scan# 2278  
 Delta R.T. 0.00 min  
 Lab File: BE090435.D  
 Acq: 11 Aug 2015 19:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 122393 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 6.4   | 5.7   | 8.5    |
| 80       | 6.6   | 5.8   | 8.8    |

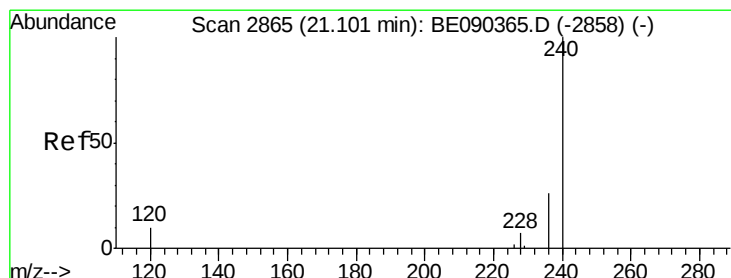
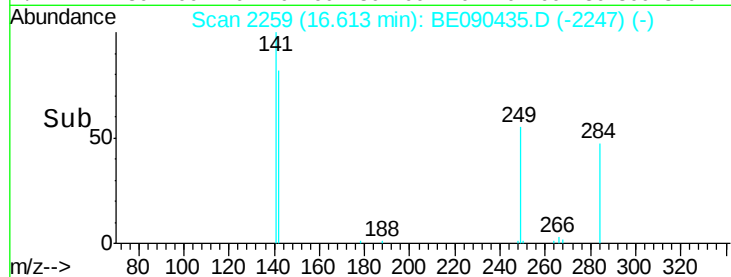
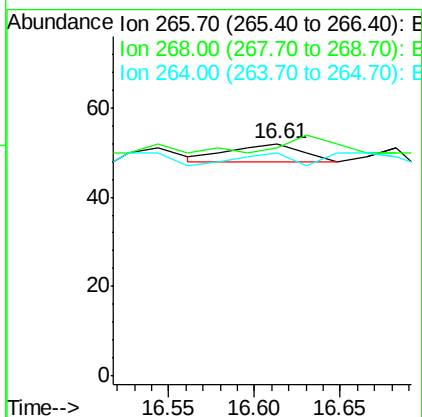
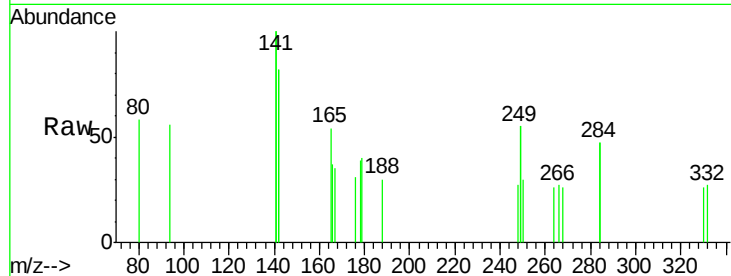




#21  
 Pentachlorophenol  
 Concen: 0.10 ng  
 RT: 16.61 min Scan# 2259  
 Delta R.T. 0.00 min  
 Lab File: BE090435.D  
 Acq: 11 Aug 2015 19:24

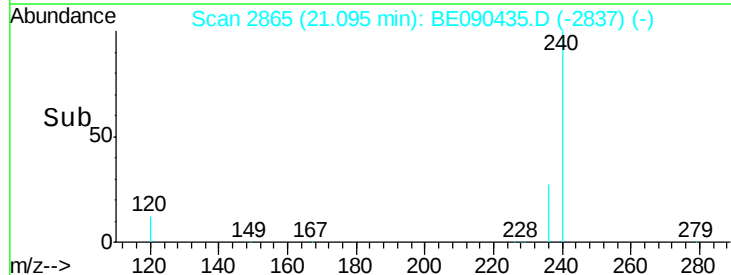
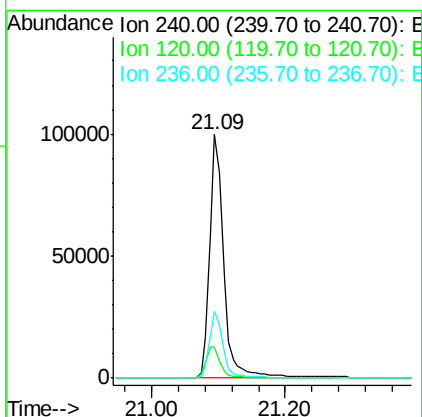
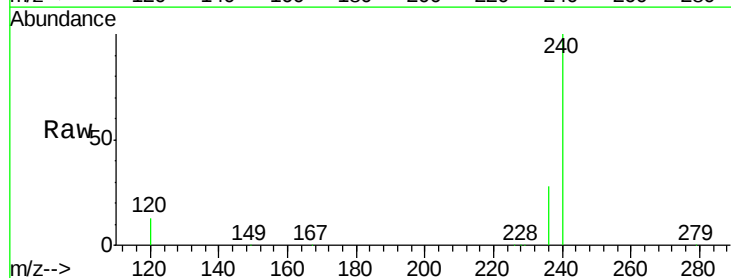
Instrument :  
 BNA\_E  
 ClientSampleId :  
 080815-D506-E-D-M

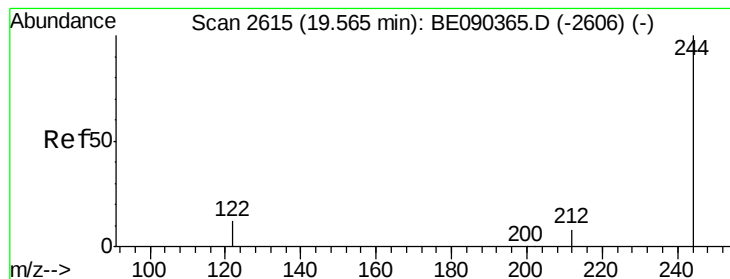
Tgt Ion: 266 Resp: 11  
 Ion Ratio Lower Upper  
 266 100  
 268 98.1 58.5 87.7#  
 264 96.2 56.0 84.0#



#25  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.09 min Scan# 2865  
 Delta R.T. -0.01 min  
 Lab File: BE090435.D  
 Acq: 11 Aug 2015 19:24

Tgt Ion: 240 Resp: 144577  
 Ion Ratio Lower Upper  
 240 100  
 120 12.6 8.3 12.5#  
 236 27.5 21.0 31.4





#27

Terphenyl-d14

Concen: 5.38 ng

RT: 19.55 min Scan# 2614

Delta R.T. -0.01 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M

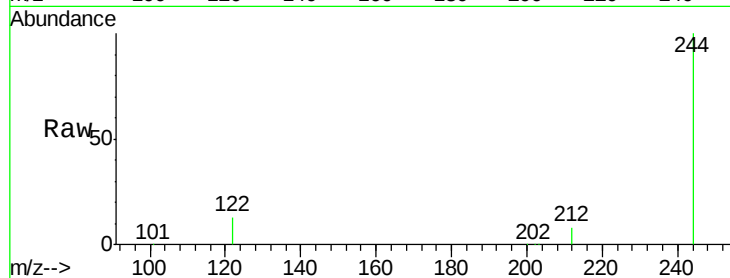
Tgt Ion:244 Resp: 114562

Ion Ratio Lower Upper

244 100

212 8.3 6.6 9.8

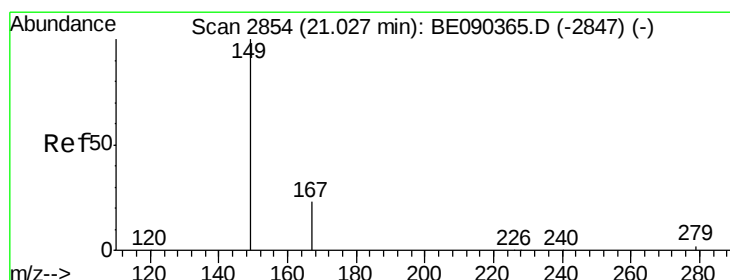
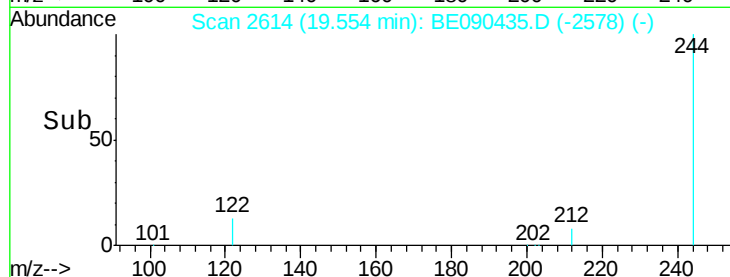
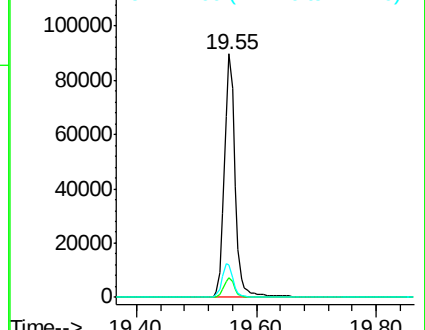
122 13.4 10.2 15.4



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



#30

Bis(2-ethylhexyl)phthalate

Concen: 0.35 ng

RT: 21.03 min Scan# 2855

Delta R.T. 0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

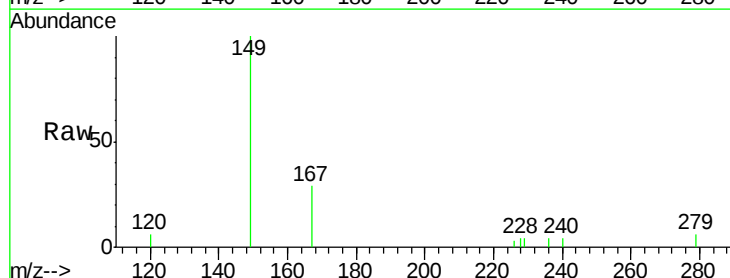
Tgt Ion:149 Resp: 1888

Ion Ratio Lower Upper

149 100

167 25.3 19.8 29.8

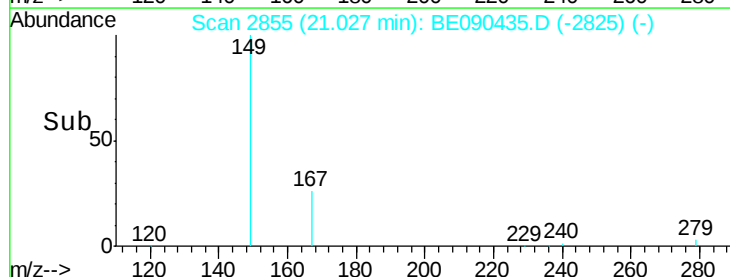
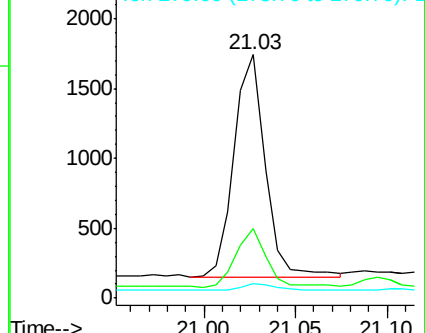
279 3.6 2.4 3.6#

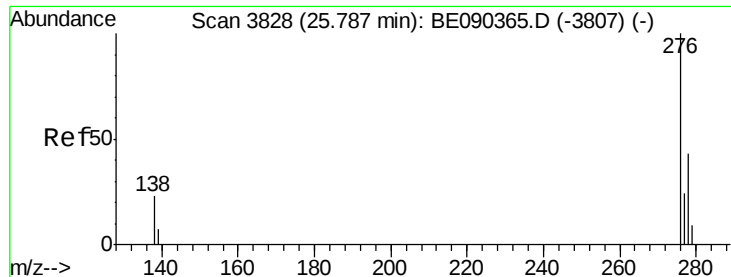


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#31

Indeno(1,2,3-cd)pyrene

Concen: 0.26 ng

RT: 25.78 min Scan# 3828

Delta R.T. -0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M

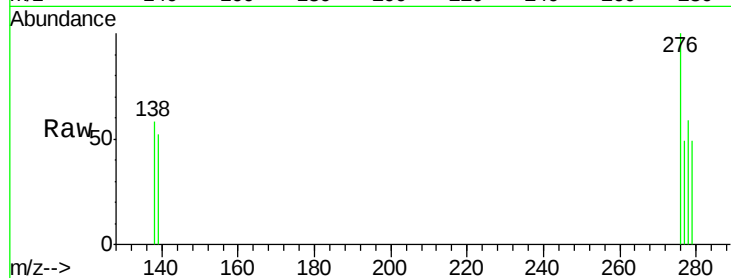
Tgt Ion:276 Resp: 416

Ion Ratio Lower Upper

276 100

138 2.6 18.8 28.2#

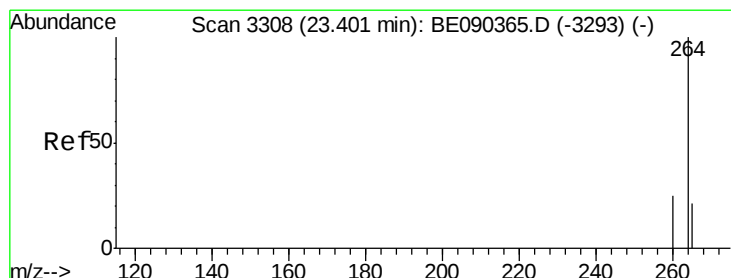
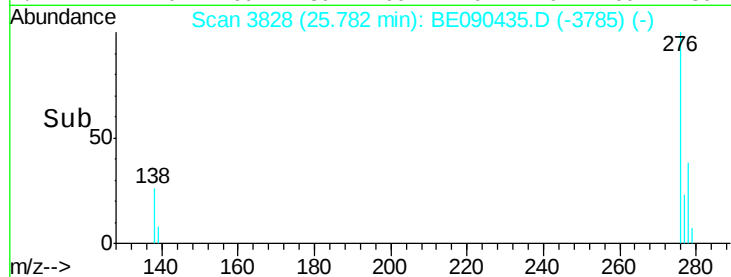
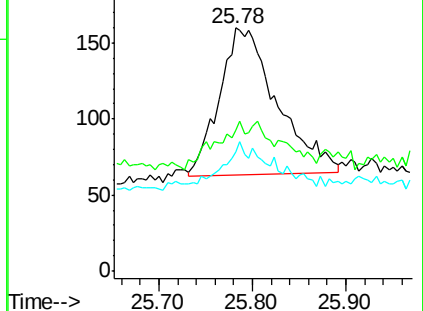
277 10.6 18.2 27.4#



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



#32

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 3308

Delta R.T. -0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

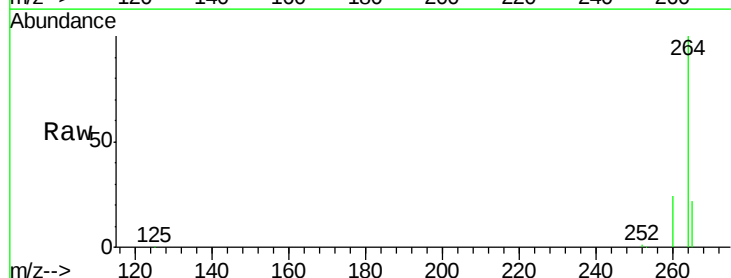
Tgt Ion:264 Resp: 130599

Ion Ratio Lower Upper

264 100

260 24.5 20.1 30.1

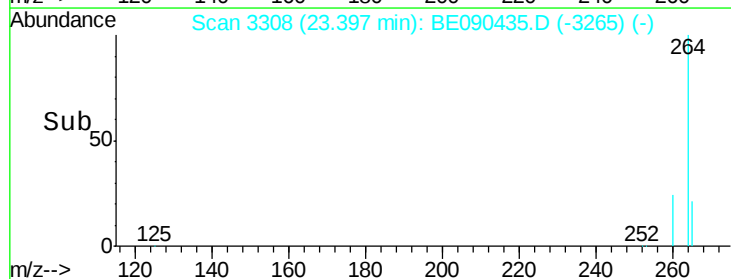
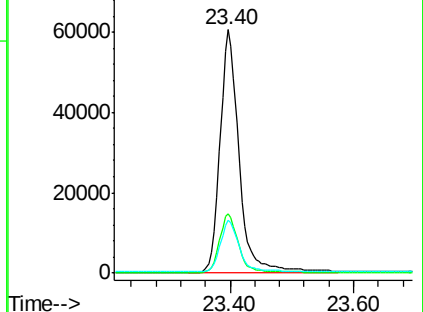
265 21.7 17.2 25.8

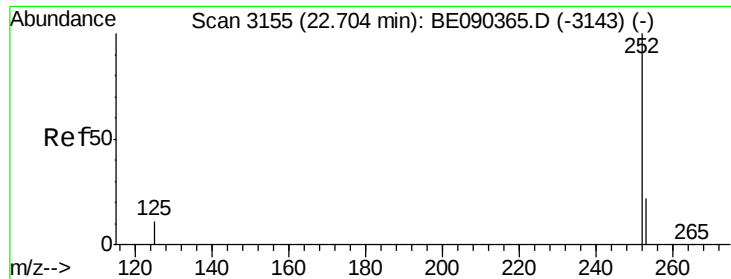


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#33

Benzo(b)fluoranthene

Concen: 0.20 ng

RT: 22.70 min Scan# 3155

Delta R.T. -0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M

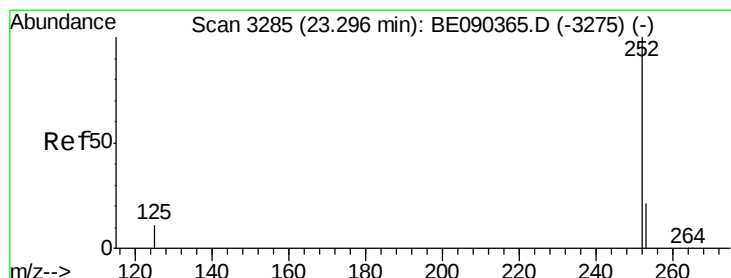
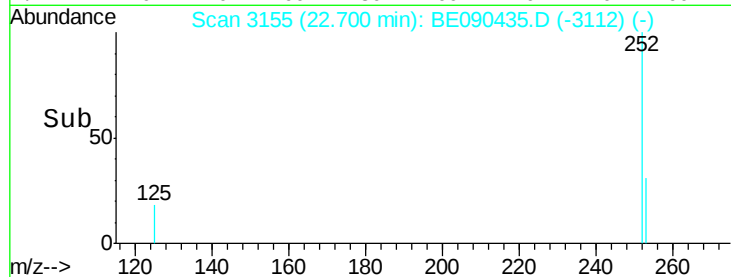
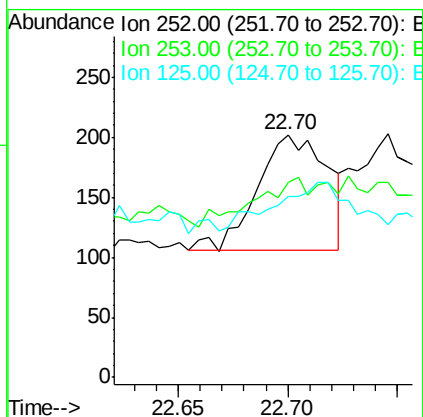
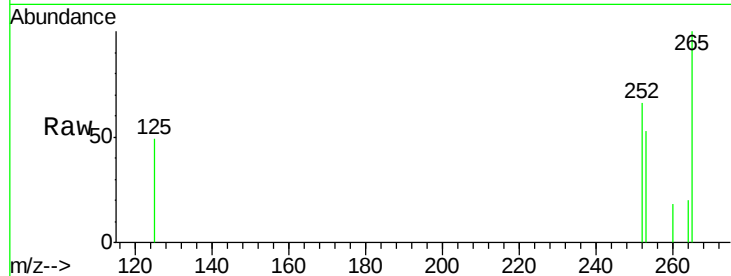
Tgt Ion:252 Resp: 214

Ion Ratio Lower Upper

252 100

253 80.2 18.1 27.1#

125 74.8 9.4 14.2#



#35

Benzo(a)pyrene

Concen: 0.24 ng

RT: 23.30 min Scan# 3286

Delta R.T. 0.00 min

Lab File: BE090435.D

Acq: 11 Aug 2015 19:24

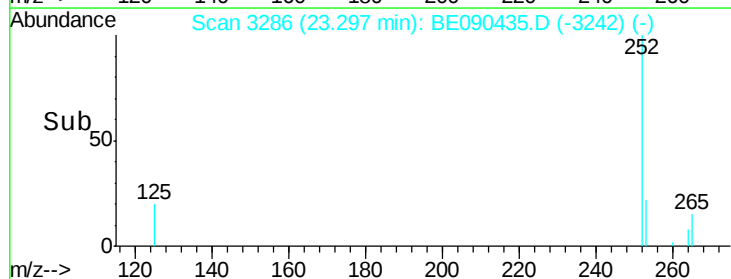
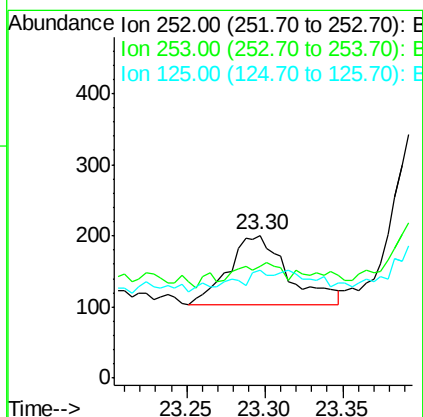
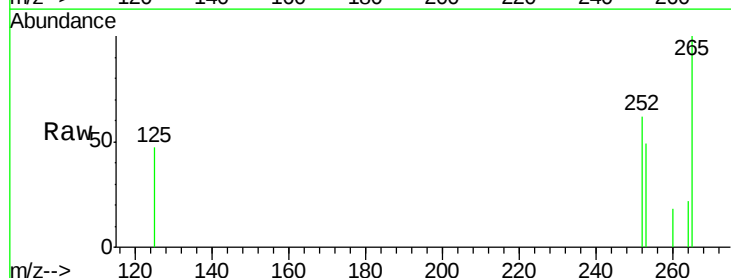
Tgt Ion:252 Resp: 260

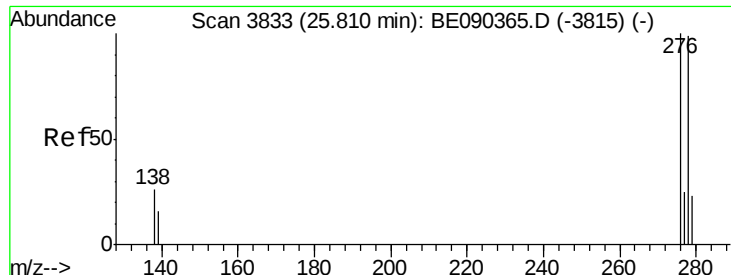
Ion Ratio Lower Upper

252 100

253 78.6 17.6 26.4#

125 75.6 9.8 14.6#





#36

Dibenzo(a,h)anthracene

Concen: 0.30 ng

RT: 25.81 min Scan# 3835

Delta R.T. 0.01 min

Lab File: BE090435.D

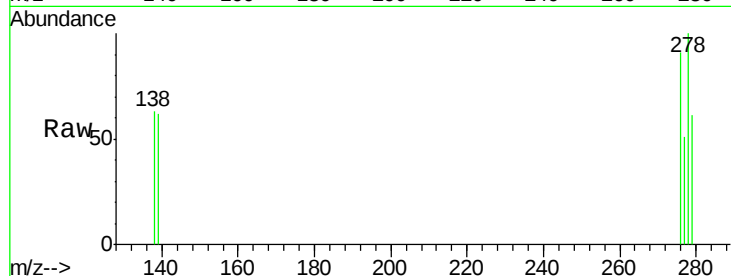
Acq: 11 Aug 2015 19:24

Instrument :

BNA\_E

ClientSampleId :

080815-D506-E-D-M



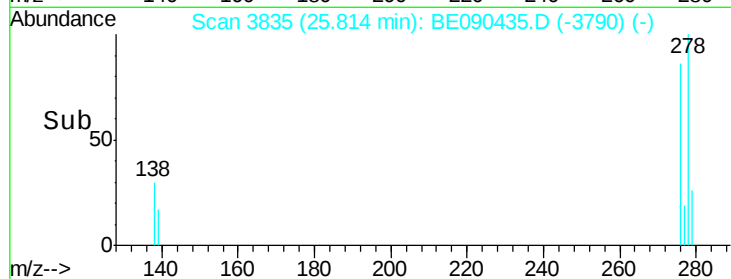
Tgt Ion: 278 Resp: 383

Ion Ratio Lower Upper

278 100

139 62.1 14.2 21.4#

279 60.7 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

