

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE111616\  
 Data File : BE092546.D  
 Acq On : 16 Nov 2016 22:50  
 Operator : UM/SJ  
 Sample : H5636-06  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C19043041

Quant Time: Nov 17 04:53:09 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE111616.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 16 15:43:18 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.14  | 152  | 7701     | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.93 | 136  | 34932    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.80 | 164  | 23625    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.56 | 188  | 49725    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12          | 21.72 | 240  | 79819    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12          | 24.08 | 264  | 71699    | 5.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 4) 2-Fluorophenol           | 5.65  | 112  | 7228     | 5.56  | ng    | -0.02    |
| 5) Phenol-d6                | 7.34  | 99   | 5359     | 2.55  | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 9.32  | 82   | 12357    | 5.44  | ng    | -0.05    |
| 13) 2,4,6-Tribromophenol    | 16.30 | 330  | 7417     | 13.99 | ng    | -0.01    |
| 14) 2-Fluorobiphenyl        | 13.42 | 172  | 31869    | 5.53  | ng    | -0.01    |
| 26) Terphenyl-d14           | 20.16 | 244  | 55574    | 6.09  | ng    | -0.02    |

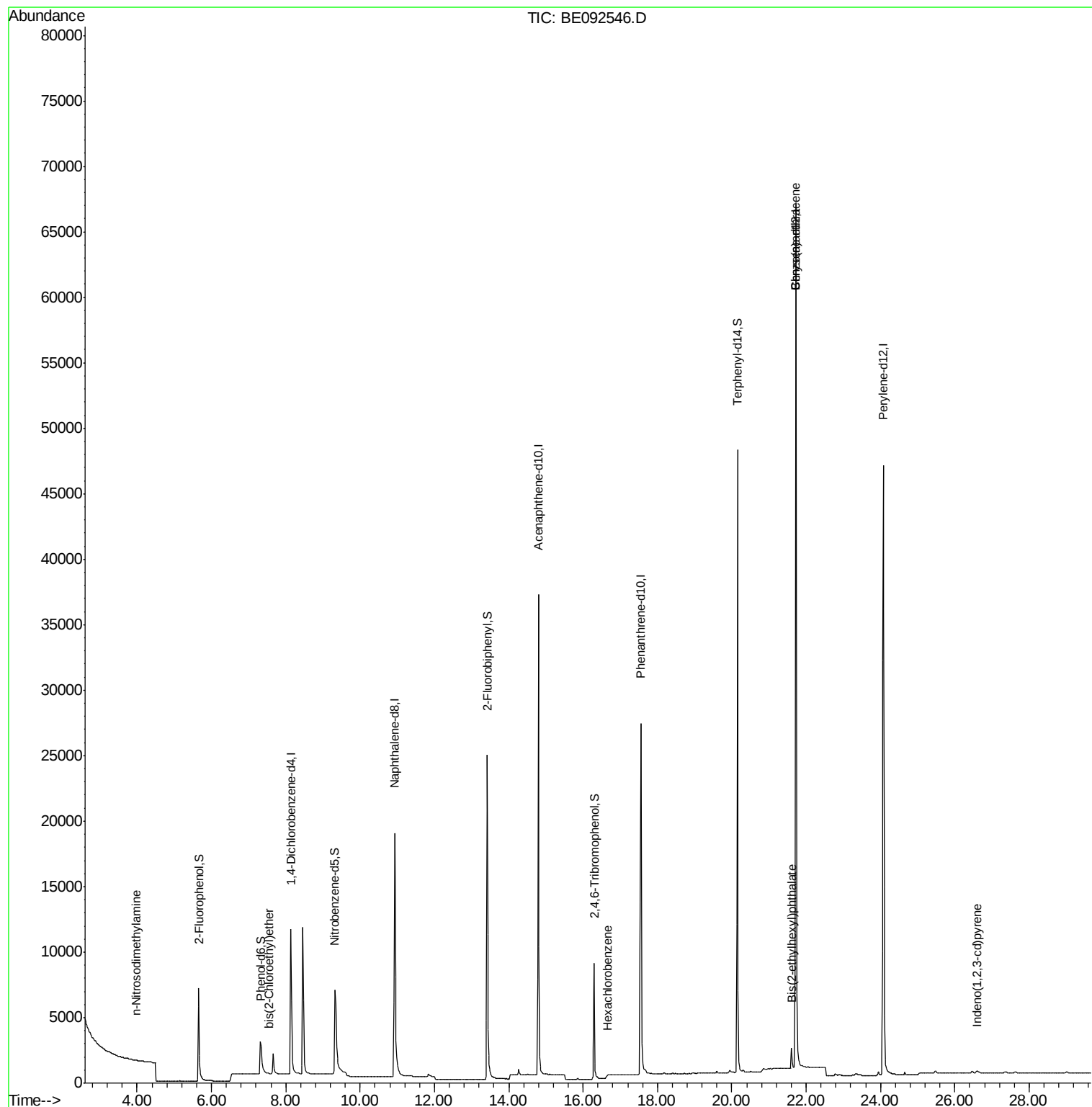
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 2) 1,4-Dioxane                 | 3.59  | 88   | 6        | Below Cal | #     | 19     |
| 3) n-Nitrosodimethylamine      | 3.99  | 42   | 6        | 0.18 ng   | #     | 17     |
| 6) bis(2-Chloroethyl)ether     | 7.54  | 93   | 7        | 0.04 ng   | #     | 15     |
| 19) Hexachlorobenzene          | 16.66 | 284  | 115      | 0.06 ng   | #     | 1      |
| 27) Benzo(a)anthracene         | 21.72 | 228  | 951      | 0.11 ng   | #     | 45     |
| 29) Bis(2-ethylhexyl)phthalate | 21.61 | 149  | 2190     | 0.53 ng   | #     | 74     |
| 30) Indeno(1,2,3-cd)pyrene     | 26.60 | 276  | 365      | 0.05 ng   | #     | 99     |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. -0.02 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

C19043041

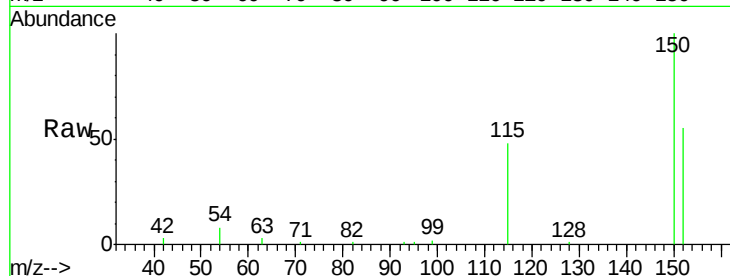
Tgt Ion: 152 Resp: 7701

Ion Ratio Lower Upper

152 100

150 182.0 106.0 159.0#

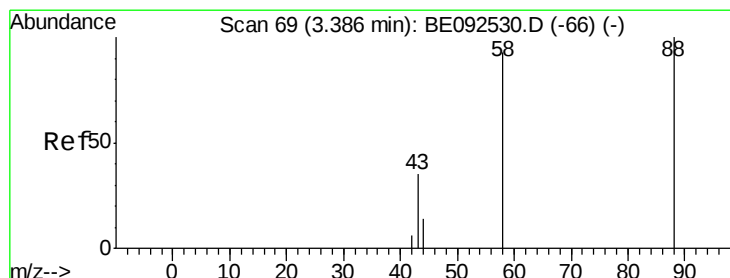
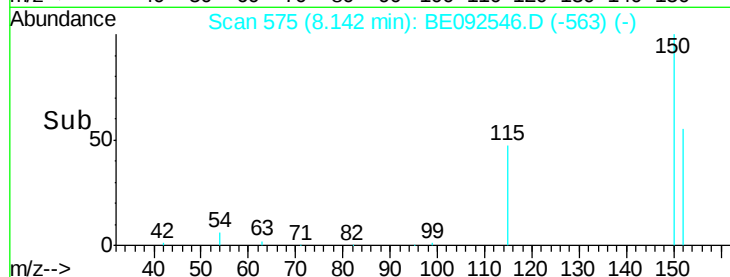
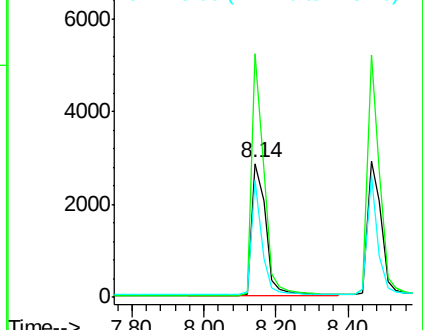
115 87.7 31.2 46.8#



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: 3.59 min Scan# 87

Delta R.T. 0.21 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

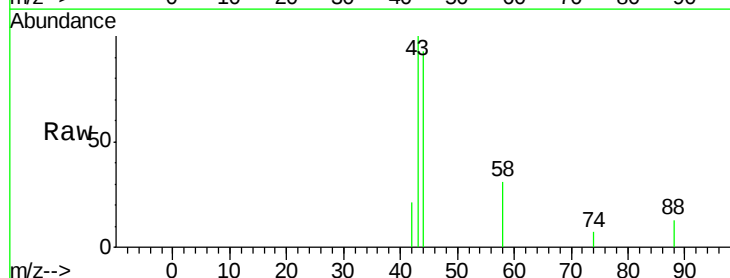
Tgt Ion: 88 Resp: 6

Ion Ratio Lower Upper

88 100

58 0.0 63.6 95.4#

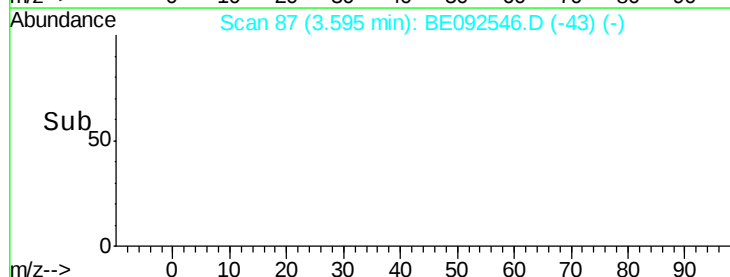
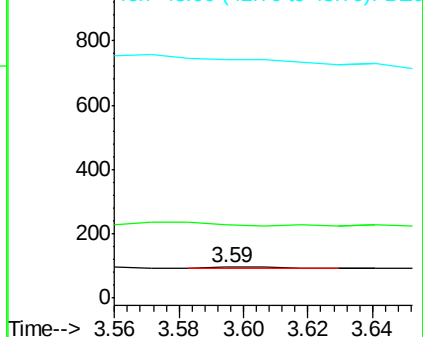
43 0.0 28.0 42.0#

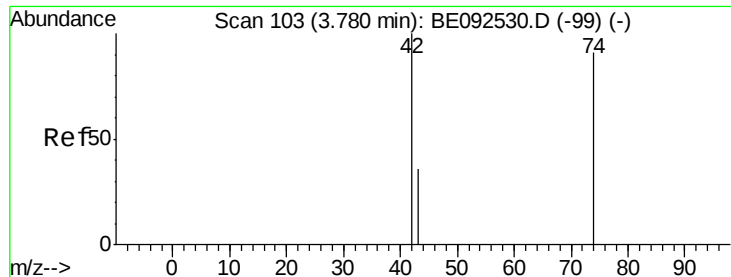


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

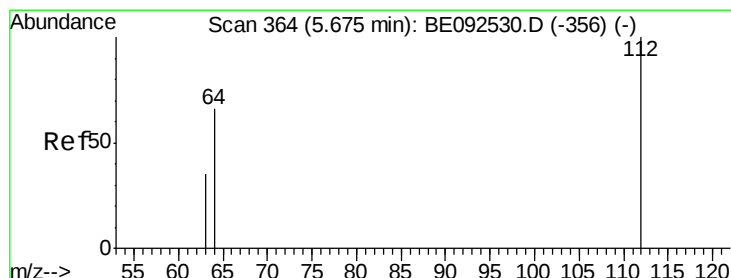
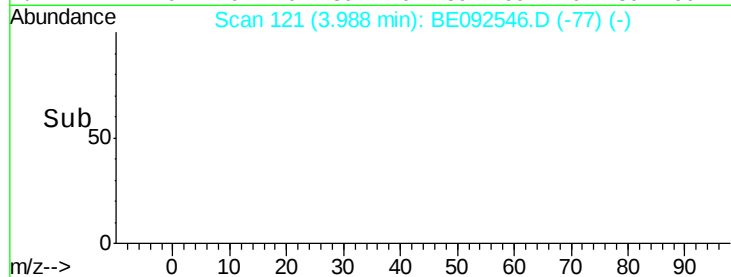
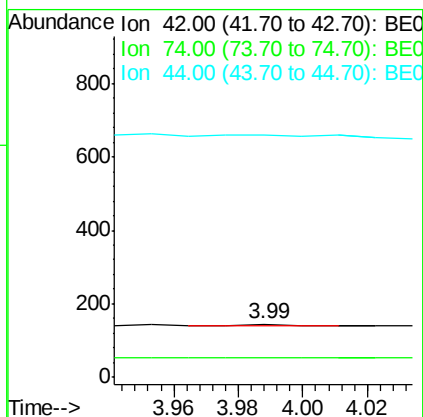
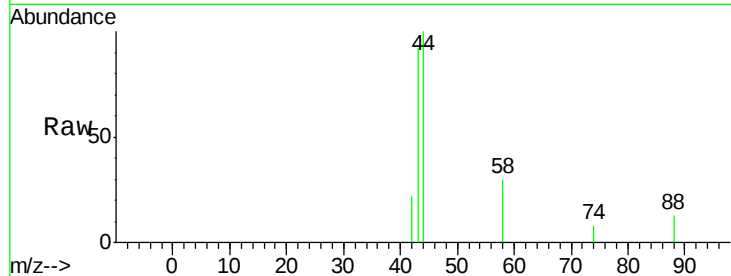




#3  
n-Nitrosodimethylamine  
Concen: 0.18 ng  
RT: 3.99 min Scan# 121  
Delta R.T. 0.21 min  
Lab File: BE092546.D  
Acq: 16 Nov 2016 22:50

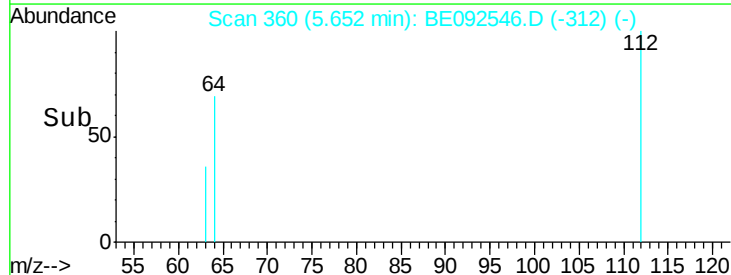
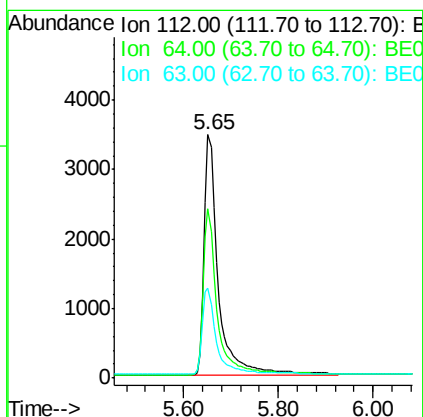
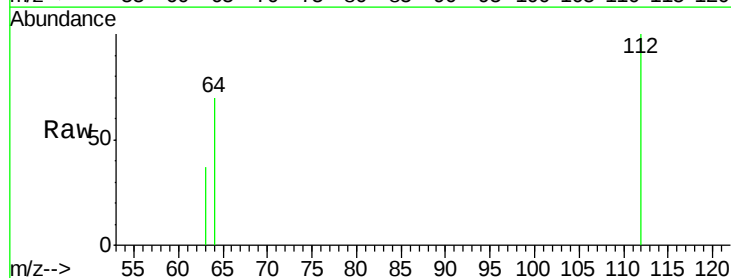
Instrument :  
BNA\_E  
ClientSampleId :  
C19043041

Tgt Ion: 42 Resp: 6  
Ion Ratio Lower Upper  
42 100  
74 16.7 86.0 129.0#  
44 0.0 5.1 7.7#



#4  
2-Fluorophenol  
Concen: 5.56 ng  
RT: 5.65 min Scan# 360  
Delta R.T. -0.02 min  
Lab File: BE092546.D  
Acq: 16 Nov 2016 22:50

Tgt Ion: 112 Resp: 7228  
Ion Ratio Lower Upper  
112 100  
64 68.2 53.5 80.3  
63 36.0 27.9 41.9





#5

Phenol-d6

Concen: 2.55 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

C19043041

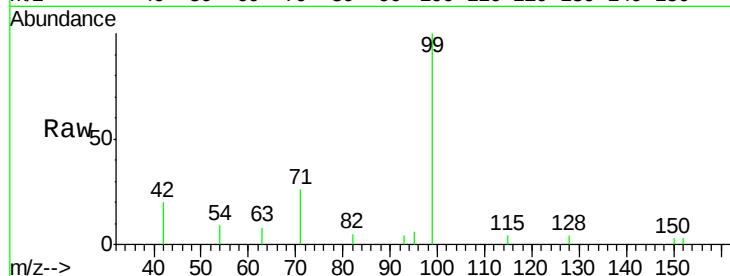
Tgt Ion: 99 Resp: 5359

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

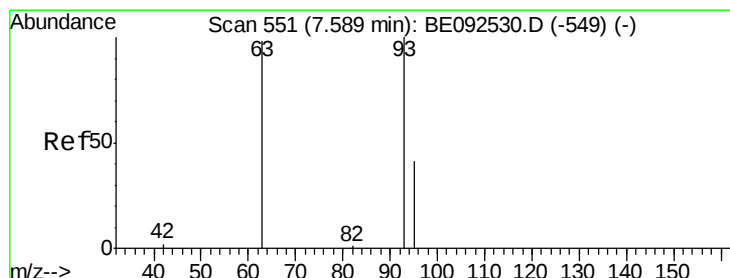
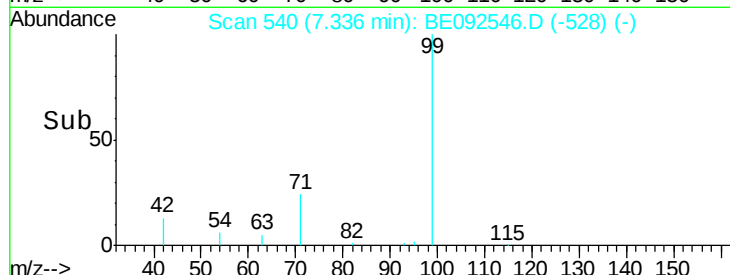
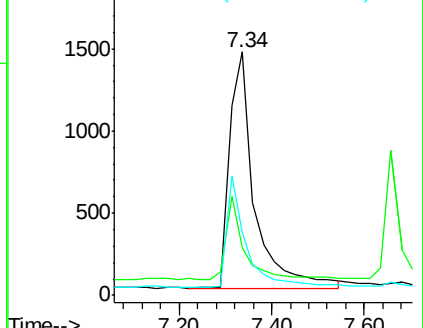
71 0.0 30.6 45.8#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.04 ng

RT: 7.54 min Scan# 549

Delta R.T. -0.04 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

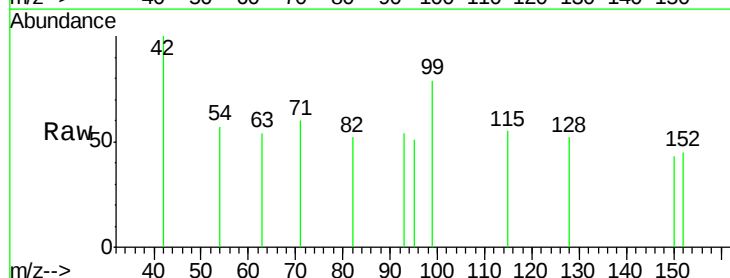
Tgt Ion: 93 Resp: 7

Ion Ratio Lower Upper

93 100

63 0.0 71.6 107.4#

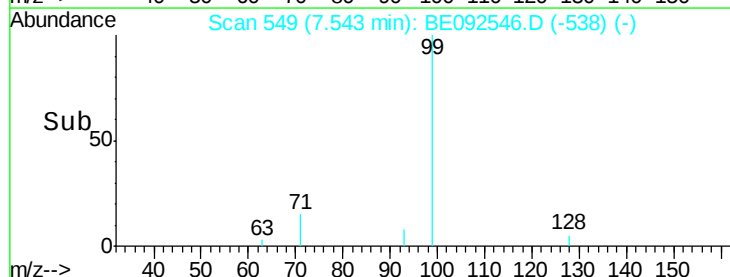
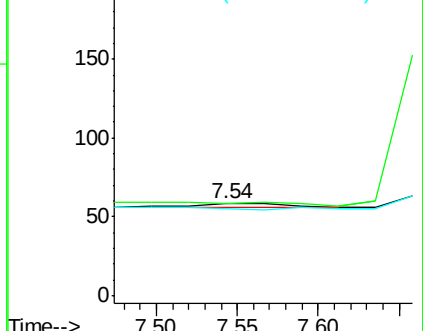
95 0.0 24.0 36.0#

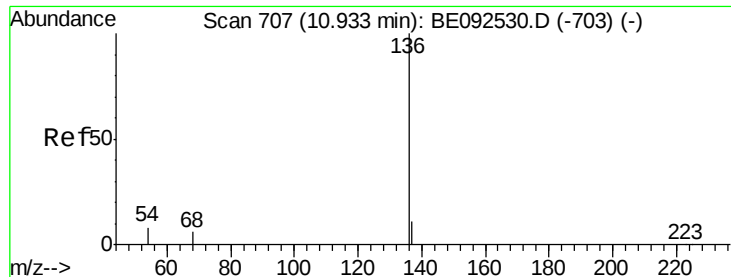


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

C19043041

Tgt Ion:136 Resp: 34932

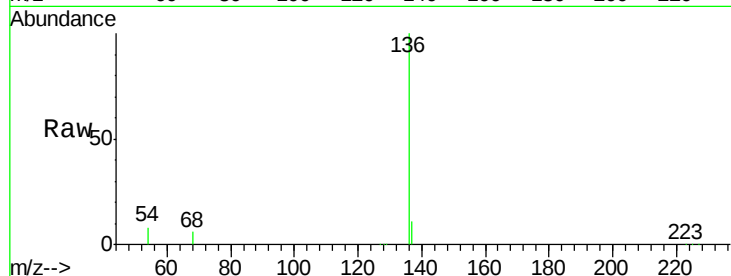
Ion Ratio Lower Upper

136 100

137 11.2 8.2 12.4

54 8.1 9.6 14.4#

68 5.9 6.7 10.1#

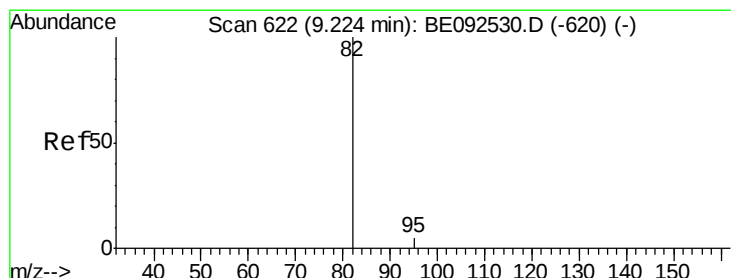
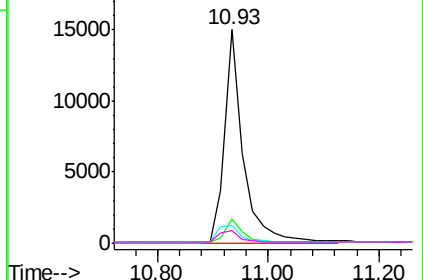
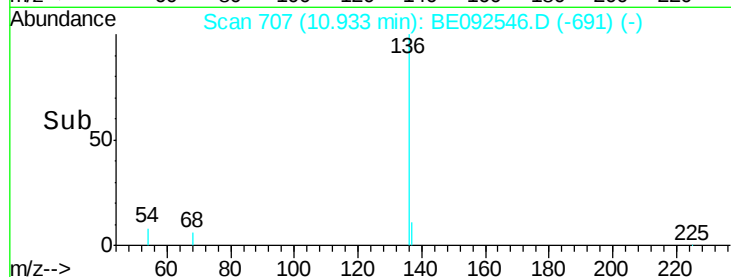


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 5.44 ng

RT: 9.32 min Scan# 626

Delta R.T. -0.05 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

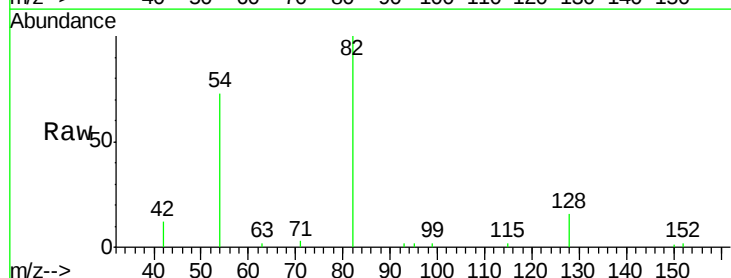
Tgt Ion: 82 Resp: 12357

Ion Ratio Lower Upper

82 100

128 16.1 39.0 58.4#

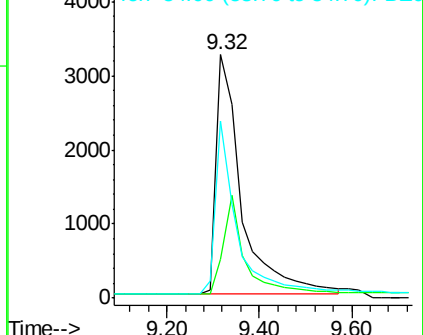
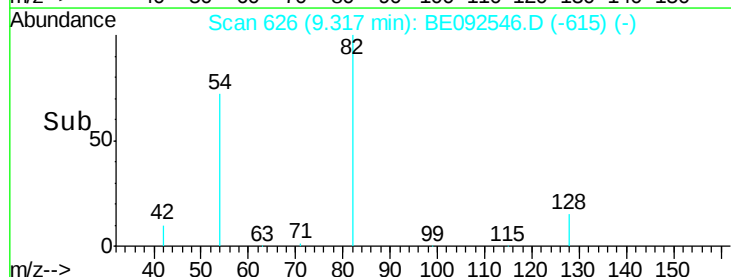
54 72.9 44.8 67.2#

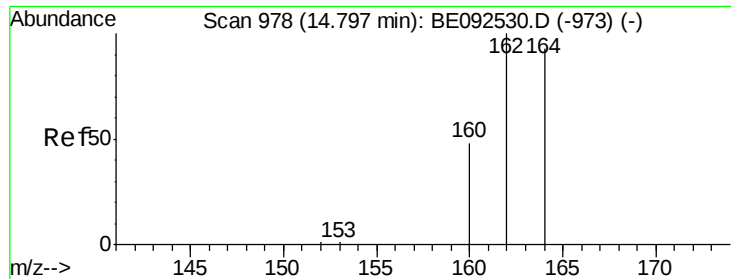


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

Delta R.T. 0.00 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

C19043041

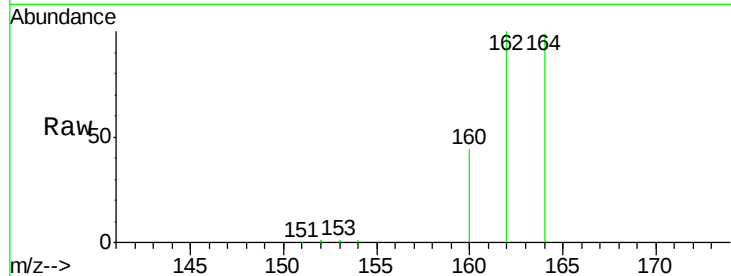
Tgt Ion:164 Resp: 23625

Ion Ratio Lower Upper

164 100

162 100.5 71.4 107.0

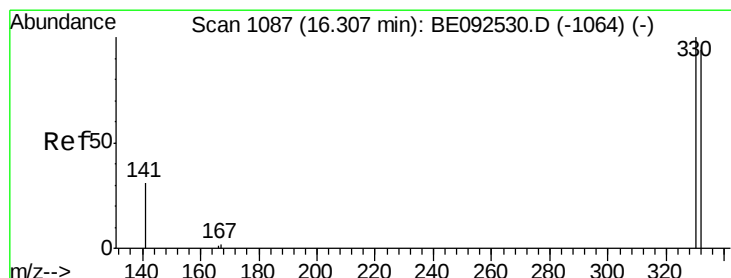
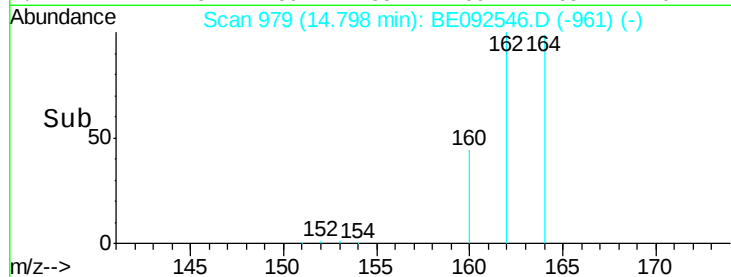
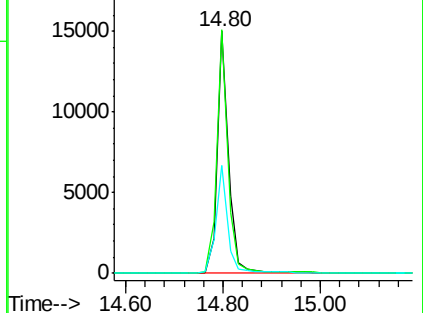
160 44.5 27.4 41.2#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 13.99 ng

RT: 16.30 min Scan# 1087

Delta R.T. -0.01 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

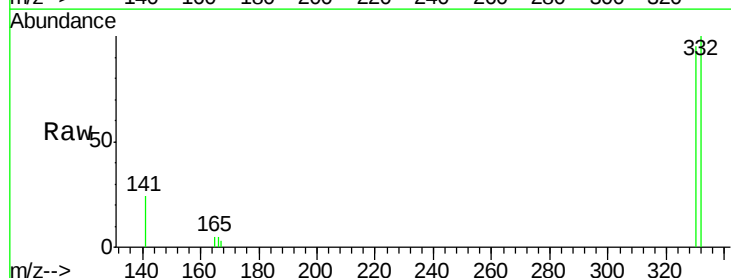
Tgt Ion:330 Resp: 7417

Ion Ratio Lower Upper

330 100

332 95.8 75.4 113.0

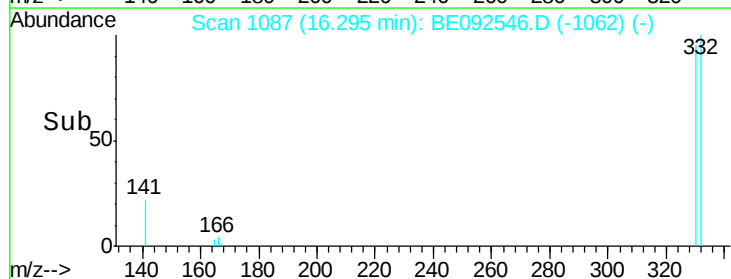
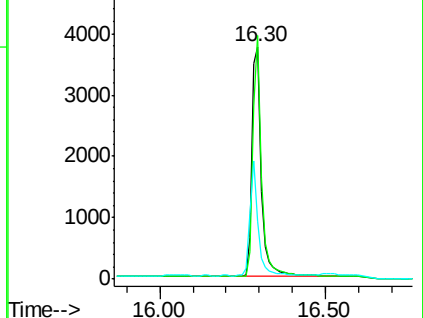
141 43.3 31.0 46.6

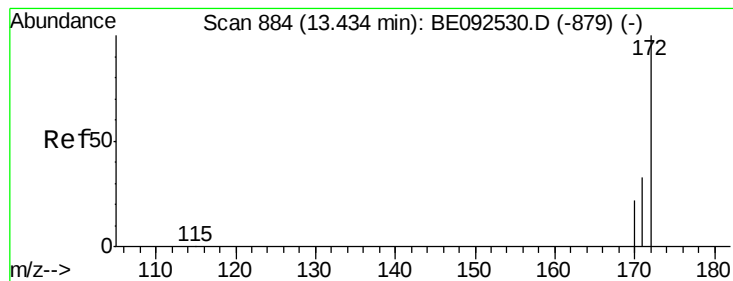


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#14

2-Fluorobiphenyl

Concen: 5.53 ng

RT: 13.42 min Scan# 883

Delta R.T. -0.01 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

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ClientSampleId :

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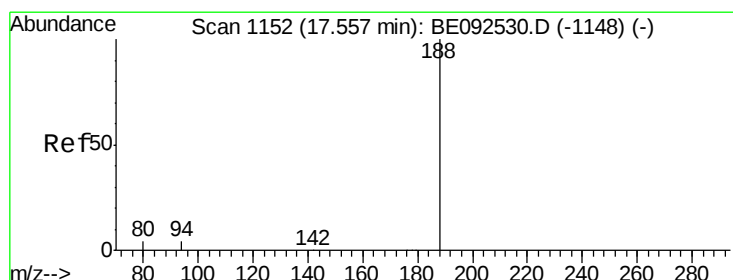
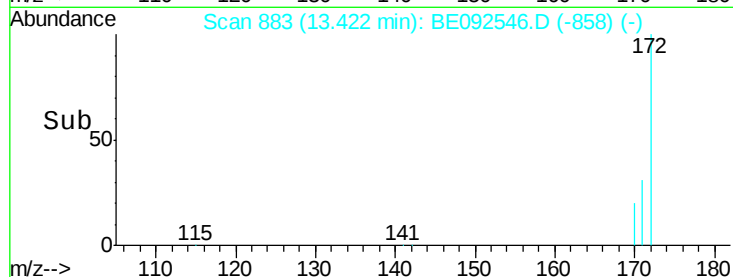
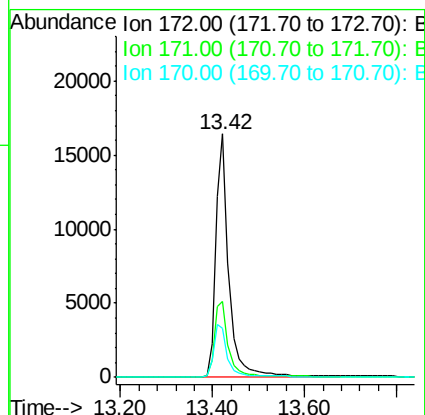
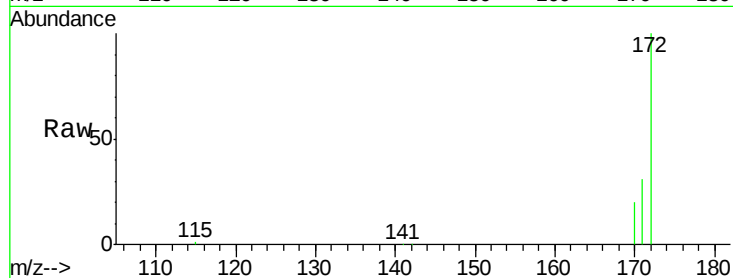
Tgt Ion:172 Resp: 31869

Ion Ratio Lower Upper

172 100

171 31.3 30.1 45.1

170 19.9 21.8 32.6#



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

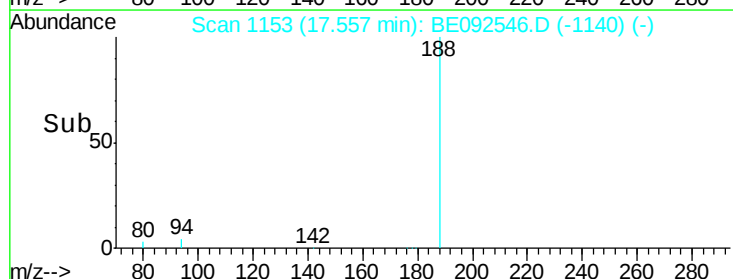
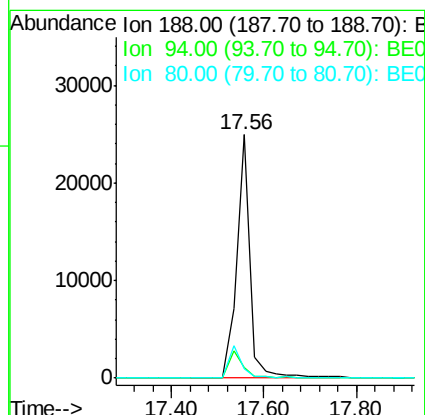
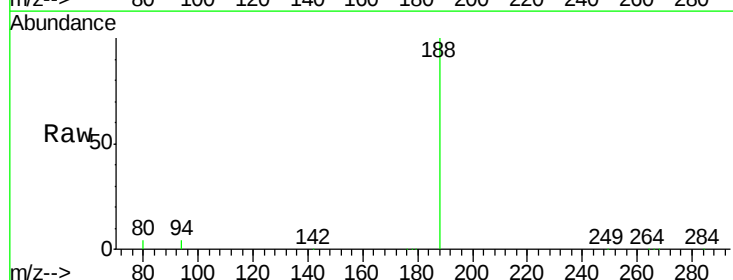
Tgt Ion:188 Resp: 49725

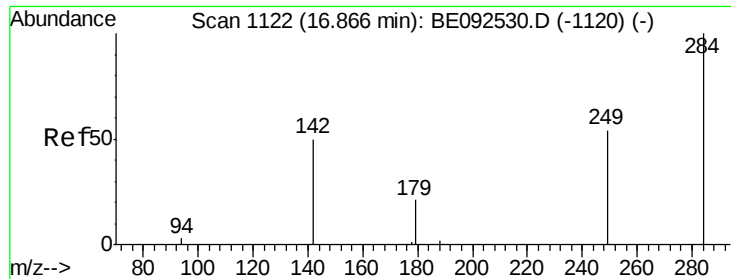
Ion Ratio Lower Upper

188 100

94 4.3 3.2 4.8

80 3.7 2.6 3.8





#19

Hexachlorobenzene

Concen: 0.06 ng

RT: 16.66 min Scan# 1114

Delta R.T. -0.21 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

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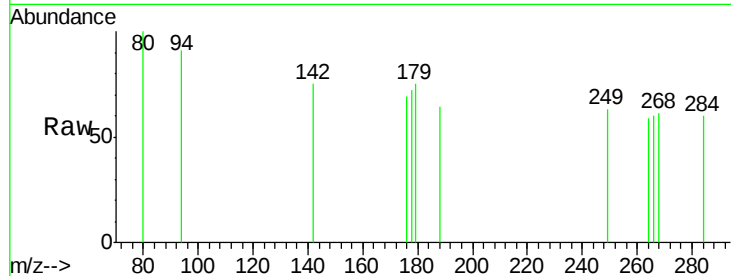
Tgt Ion: 284 Resp: 115

Ion Ratio Lower Upper

284 100

142 0.0 29.1 43.7#

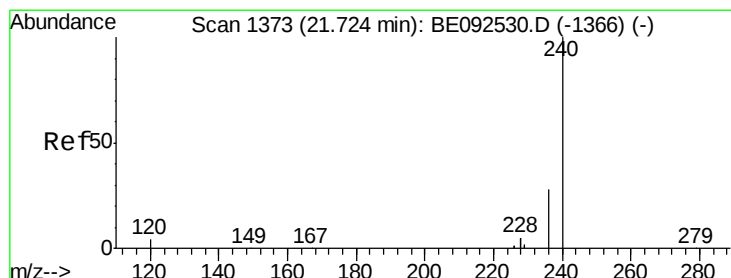
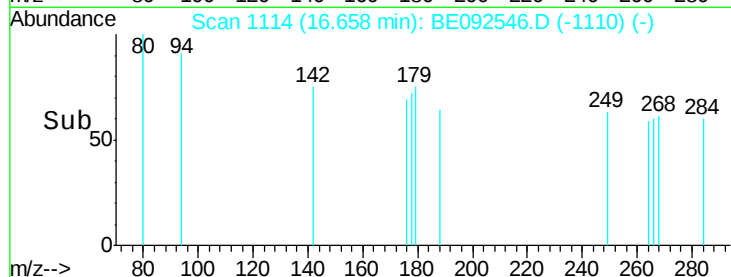
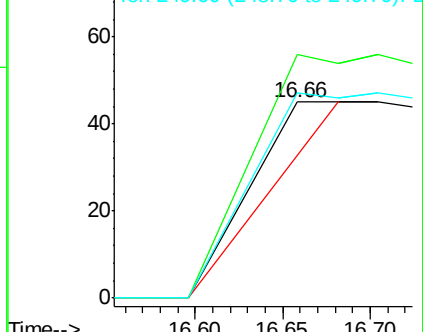
249 373.9 27.9 41.9#



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.72 min Scan# 1374

Delta R.T. -0.00 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

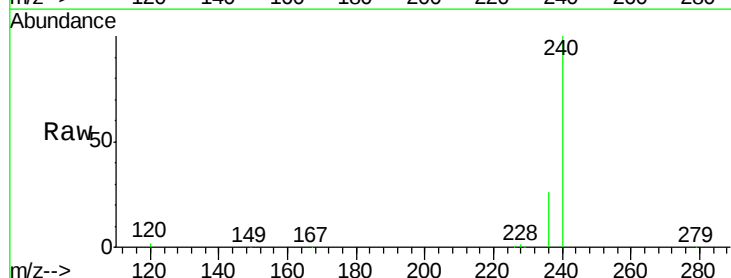
Tgt Ion: 240 Resp: 79819

Ion Ratio Lower Upper

240 100

120 2.1 2.6 4.0#

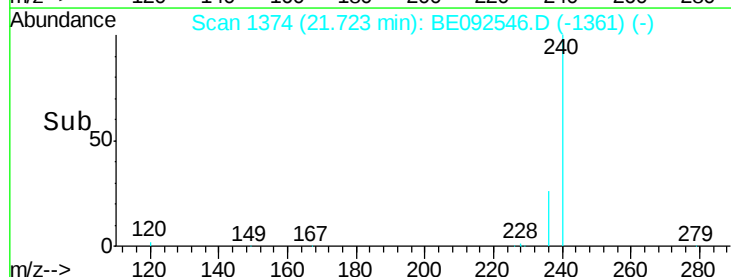
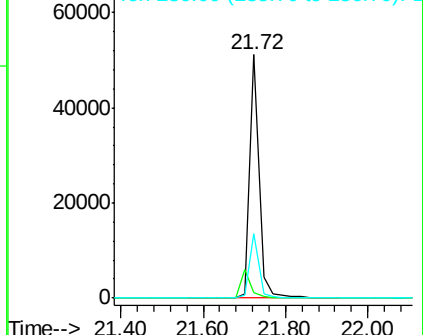
236 26.4 24.6 37.0

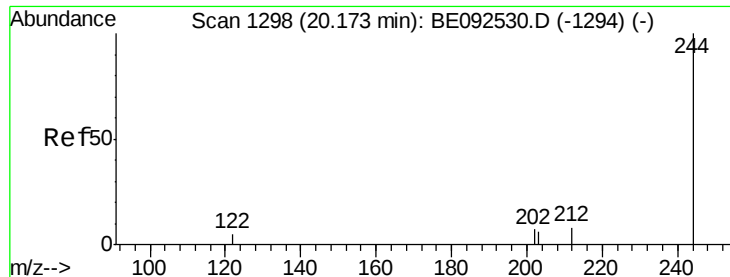


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

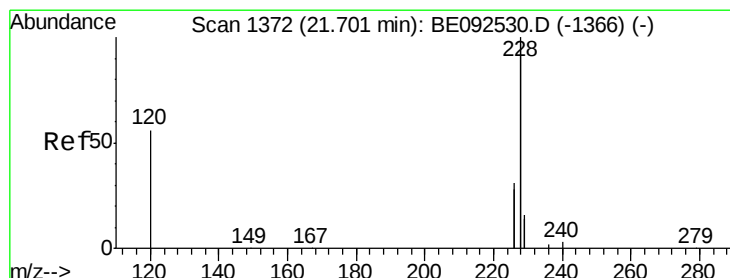
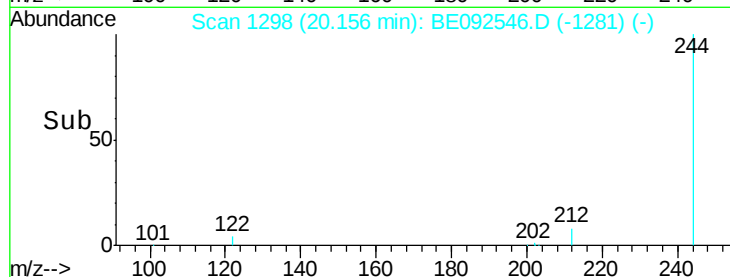
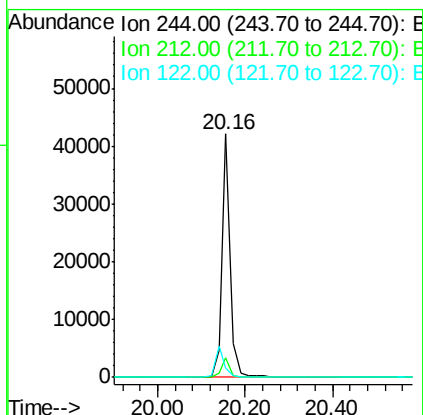
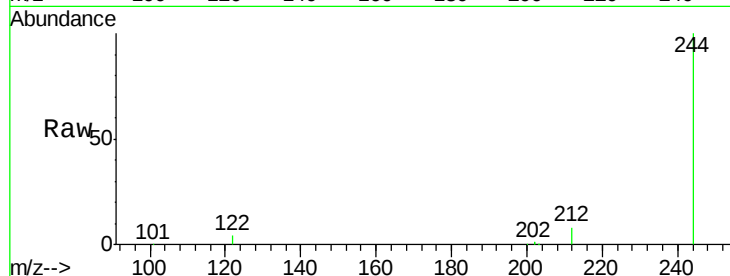




#26  
 Terphenyl-d14  
 Concen: 6.09 ng  
 RT: 20.16 min Scan# 1298  
 Delta R.T. -0.02 min  
 Lab File: BE092546.D  
 Acq: 16 Nov 2016 22:50

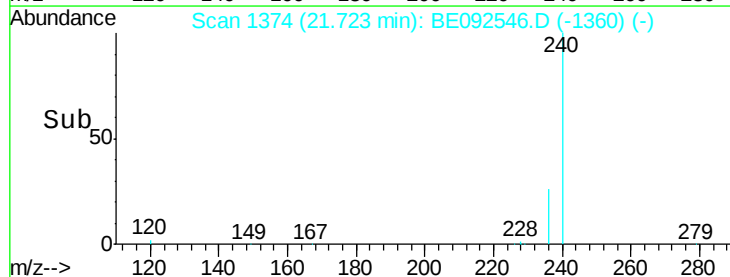
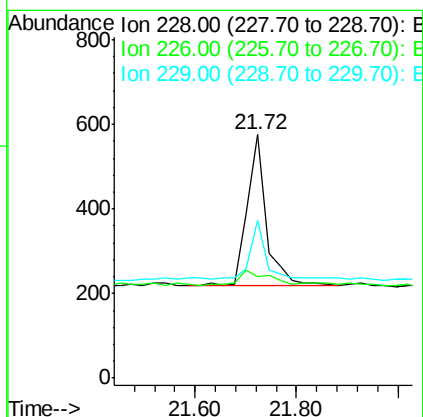
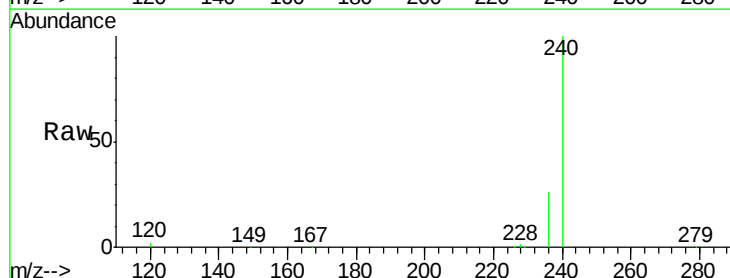
Instrument :  
 BNA\_E  
 ClientSampled :  
 C19043041

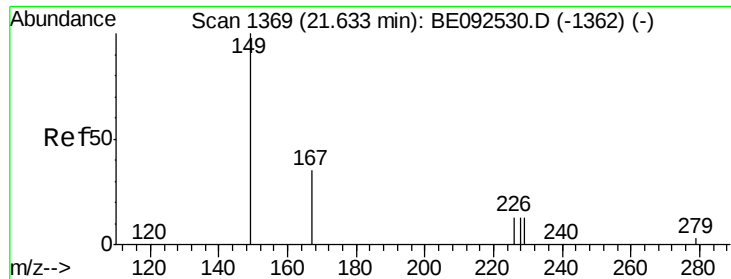
Tgt Ion: 244 Resp: 55574  
 Ion Ratio Lower Upper  
 244 100  
 212 8.1 6.7 10.1  
 122 4.1 3.6 5.4



#27  
 Benzo(a)anthracene  
 Concen: 0.11 ng  
 RT: 21.72 min Scan# 1374  
 Delta R.T. 0.02 min  
 Lab File: BE092546.D  
 Acq: 16 Nov 2016 22:50

Tgt Ion: 228 Resp: 951  
 Ion Ratio Lower Upper  
 228 100  
 226 41.7 23.6 35.4#  
 229 64.6 13.3 19.9#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.53 ng

RT: 21.61 min Scan# 1369

Delta R.T. -0.02 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

C19043041

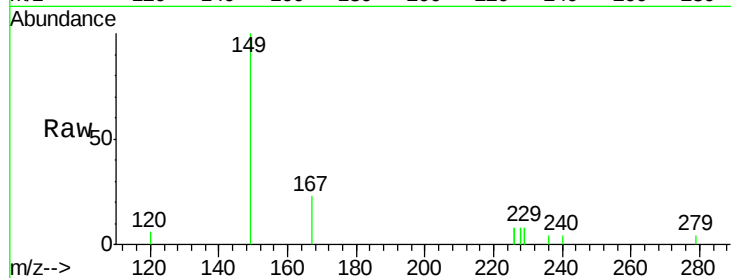
Tgt Ion:149 Resp: 2190

Ion Ratio Lower Upper

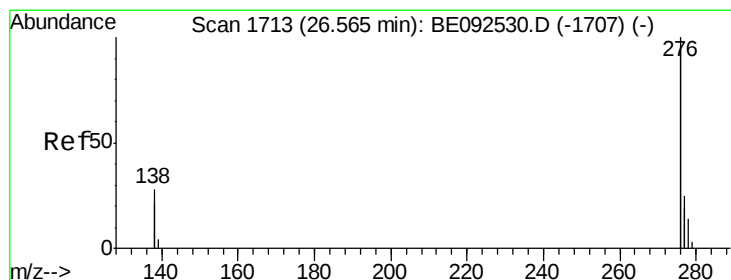
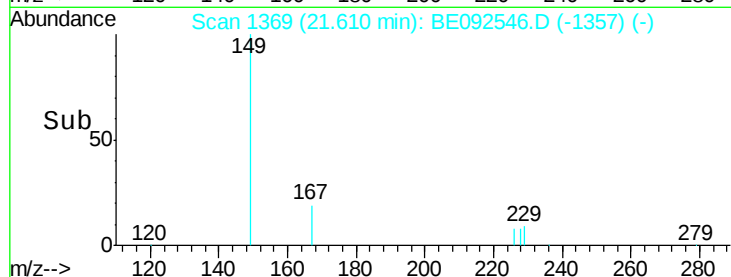
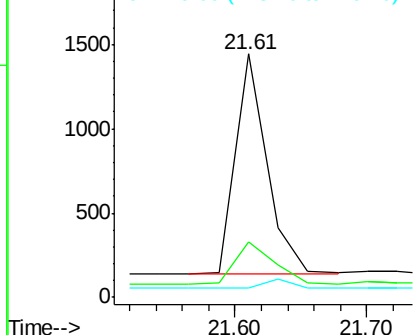
149 100

167 24.2 16.0 24.0#

279 0.0 16.0 24.0#



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#30

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 26.60 min Scan# 1716

Delta R.T. 0.03 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

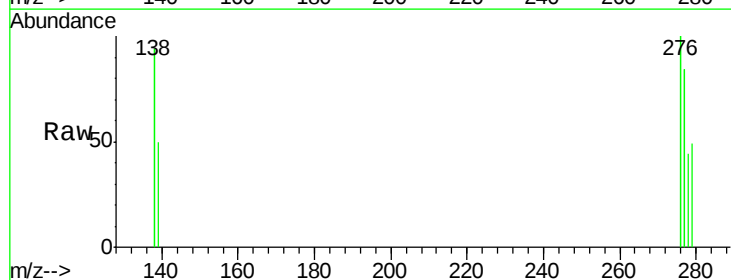
Tgt Ion:276 Resp: 365

Ion Ratio Lower Upper

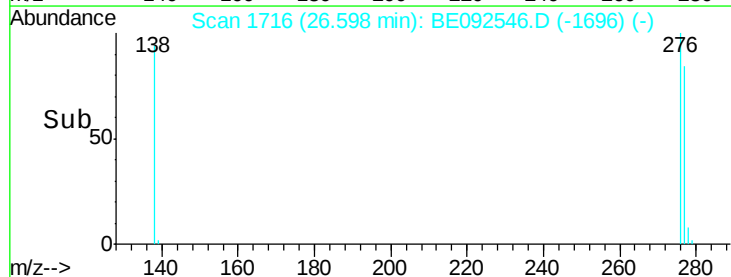
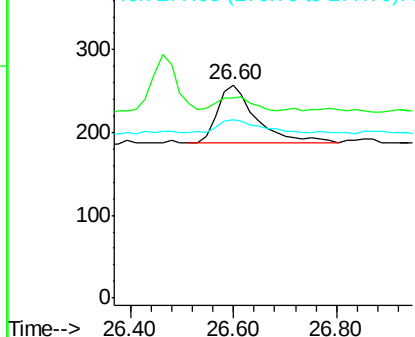
276 100

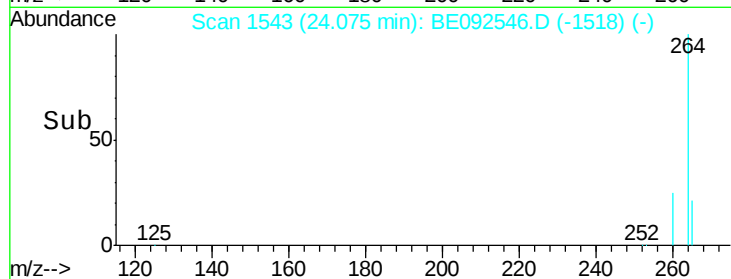
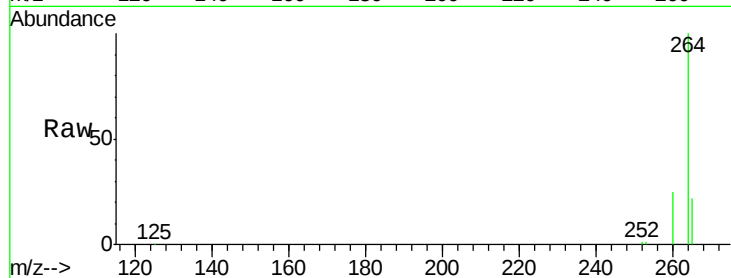
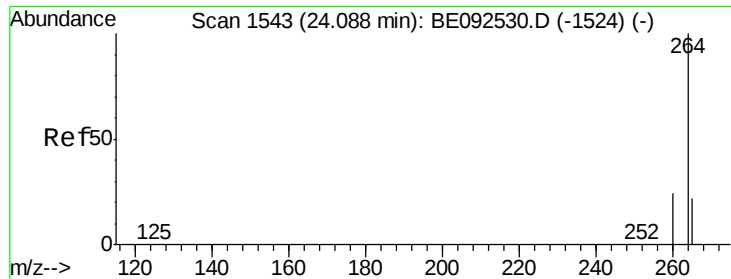
138 24.4 20.3 30.5

277 24.9 19.7 29.5



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





#31

Perylene-d12

Concen: 5.00 ng

RT: 24.08 min Scan# 1543

Delta R.T. -0.01 min

Lab File: BE092546.D

Acq: 16 Nov 2016 22:50

Instrument :

BNA\_E

ClientSampleId :

C19043041

Tgt Ion: 264 Resp: 71699

Ion Ratio Lower Upper

264 100

260 25.4 20.1 30.1

265 21.7 17.9 26.9

