

Data Path : Z:\HPCHEM1\BNA E\DATA\BE021716\  
 Data File : BE091409.D  
 Acq On : 17 Feb 2016 18:06  
 Operator : UM/IZ  
 Sample : H1445-01MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 LIBERTY-SF-005MSD

Quant Time: Feb 18 00:00:10 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 00:27:53 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 40123    | 5.00 | ng    | -0.02    |
| 4) Naphthalene-d8         | 9.52  | 136  | 200145   | 5.00 | ng    | -0.02    |
| 8) Acenaphthene-d10       | 13.34 | 164  | 128081   | 5.00 | ng    | -0.02    |
| 14) Phenanthrene-d10      | 16.08 | 188  | 285980   | 5.00 | ng    | -0.01    |
| 18) Chrysene-d12          | 20.21 | 240  | 333064   | 5.00 | ng    | 0.00     |
| 24) Perylene-d12          | 22.09 | 264  | 343875   | 5.00 | ng    | 0.00     |

|                             |       |     |        |      |    |       |
|-----------------------------|-------|-----|--------|------|----|-------|
| System Monitoring Compounds |       |     |        |      |    |       |
| 2) 2-Fluorophenol           | 4.89  | 112 | 81064  | 8.49 | ng | -0.06 |
| 3) Phenol-d6                | 6.51  | 99  | 115893 | 8.57 | ng | -0.06 |
| 5) Nitrobenzene-d5          | 8.12  | 82  | 74585  | 5.59 | ng | -0.05 |
| 9) 2,4,6-Tribromophenol     | 14.88 | 330 | 55885  | 8.88 | ng | -0.03 |
| 10) 2-Fluorobiphenyl        | 11.97 | 172 | 172600 | 5.18 | ng | -0.04 |
| 20) Terphenyl-d14           | 18.60 | 244 | 271589 | 5.51 | ng | -0.02 |

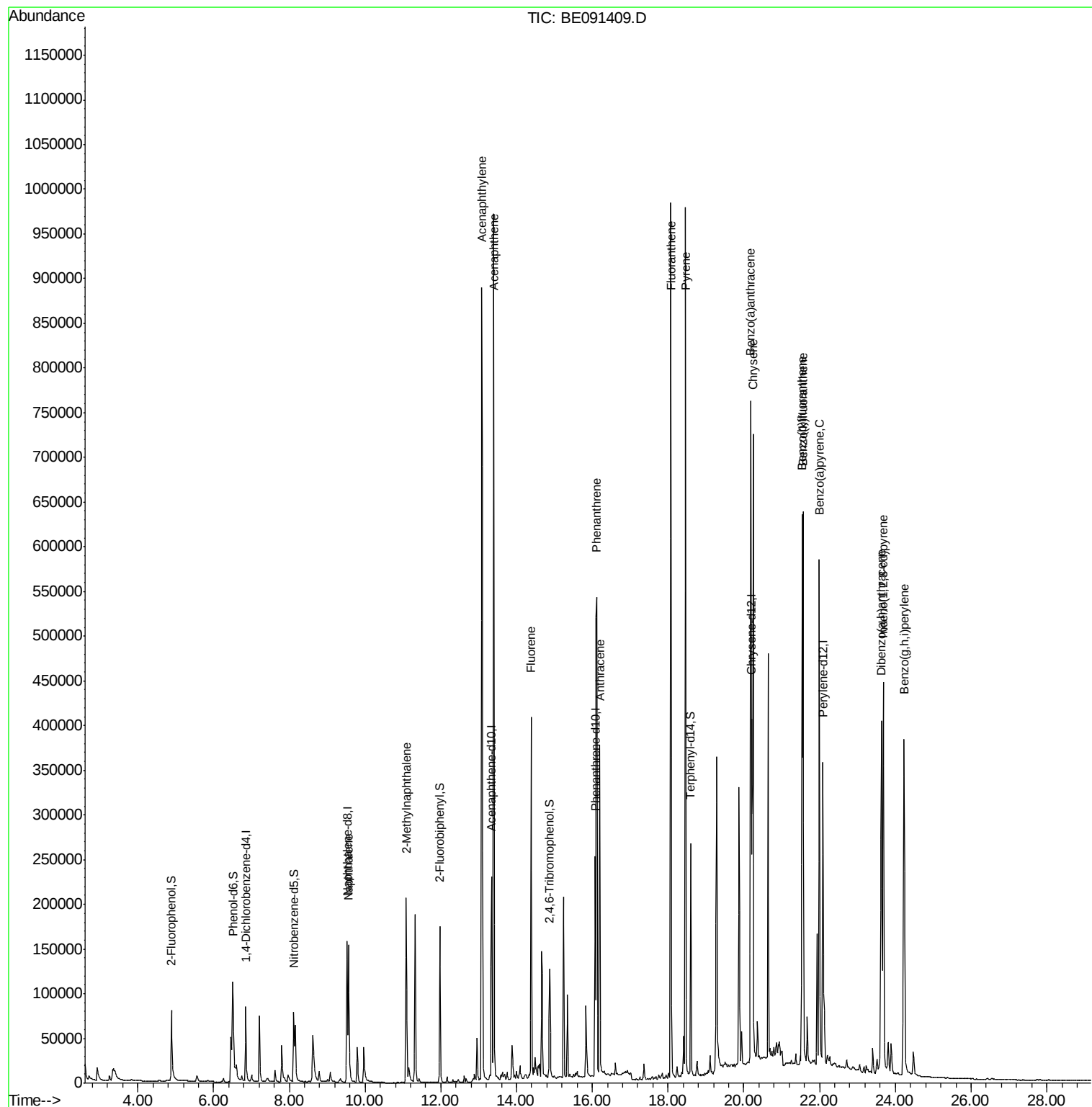
|                            |       |     |         |        |    |      |
|----------------------------|-------|-----|---------|--------|----|------|
| Target Compounds           |       |     |         | Qvalue |    |      |
| 6) Naphthalene             | 9.56  | 128 | 223340  | 4.95   | ng | 99   |
| 7) 2-Methylnaphthalene     | 11.09 | 142 | 155010  | 5.50   | ng | 98   |
| 11) Acenaphthylene         | 13.08 | 152 | 1134418 | 5.07   | ng | 99   |
| 12) Acenaphthene           | 13.40 | 154 | 172837  | 4.91   | ng | 95   |
| 13) Fluorene               | 14.39 | 166 | 241876  | 5.33   | ng | 100  |
| 15) Phenanthrene           | 16.12 | 178 | 687905  | 9.16   | ng | 100  |
| 16) Anthracene             | 16.20 | 178 | 454532  | 7.22   | ng | 97   |
| 17) Fluoranthene           | 18.07 | 202 | 902293  | 11.30  | ng | 98   |
| 19) Pyrene                 | 18.46 | 202 | 870705  | 12.06  | ng | 99   |
| 21) Benzo(a)anthracene     | 20.18 | 228 | 639089  | 8.48   | ng | 97   |
| 22) Chrysene               | 20.24 | 228 | 612354  | 7.45   | ng | 99   |
| 23) Indeno(1,2,3-cd)pyrene | 23.68 | 276 | 553153  | 7.22   | ng | 99   |
| 25) Benzo(b)fluoranthene   | 21.54 | 252 | 566754  | 6.57   | ng | # 97 |
| 26) Benzo(k)fluoranthene   | 21.56 | 252 | 631804  | 7.35   | ng | # 96 |
| 27) Benzo(a)pyrene         | 22.00 | 252 | 614416  | 7.67   | ng | # 96 |
| 28) Dibenzo(a,h)anthracene | 23.63 | 278 | 443678  | 5.63   | ng | 98   |
| 29) Benzo(g,h,i)perylene   | 24.23 | 276 | 590180  | 6.85   | ng | 99   |

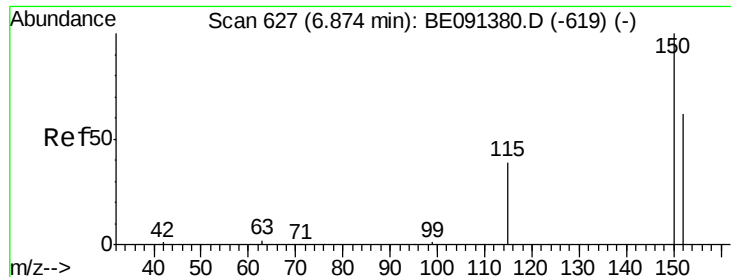
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 03 00:27:53 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 624

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

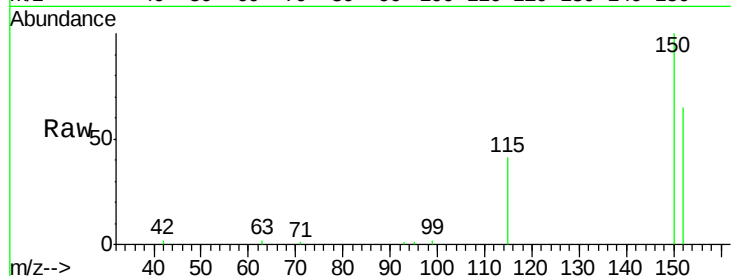
Tot Ion:152 Resp: 40123

Ion Ratio Lower Upper

152 100

150 152.9 128.9 193.3

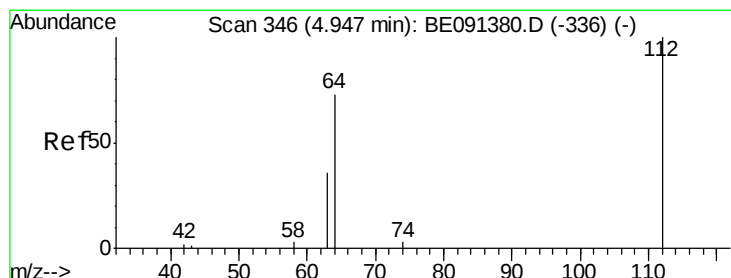
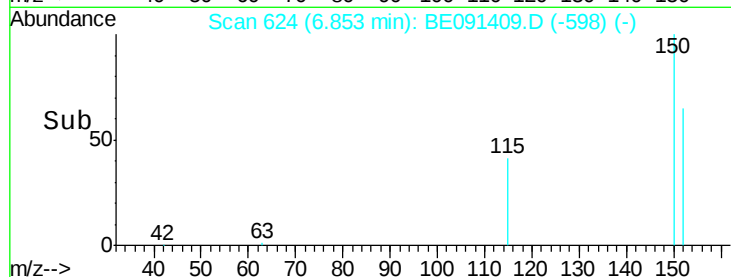
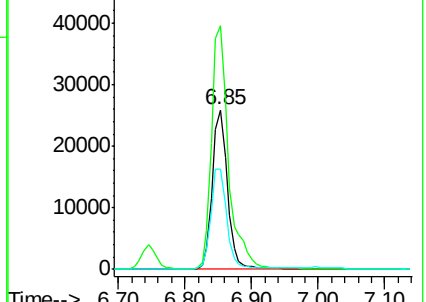
115 63.2 50.9 76.3



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

2-Fluorophenol

Concen: 8.49 ng

RT: 4.89 min Scan# 337

Delta R.T. -0.06 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

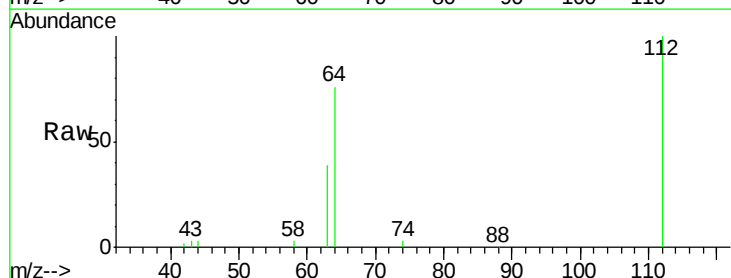
Tgt Ion:112 Resp: 81064

Ion Ratio Lower Upper

112 100

64 75.5 60.5 90.7

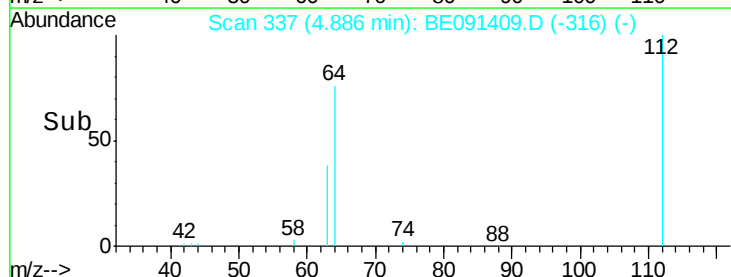
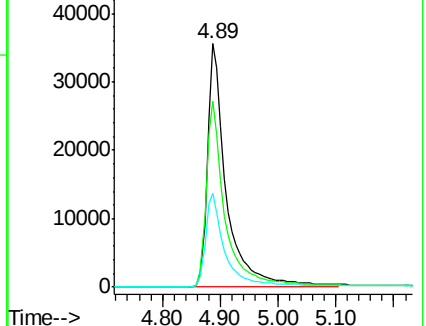
63 39.0 29.8 44.8

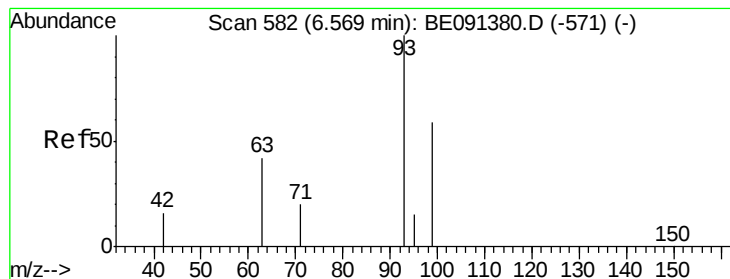


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#3

Phenol-d6

Concen: 8.57 ng

RT: 6.51 min Scan# 573

Delta R.T. -0.06 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

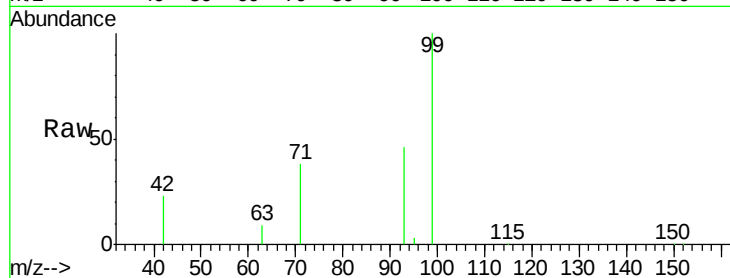
Tot Ion: 99 Resp: 115893

Ion Ratio Lower Upper

99 100

42 23.2 13.3 19.9#

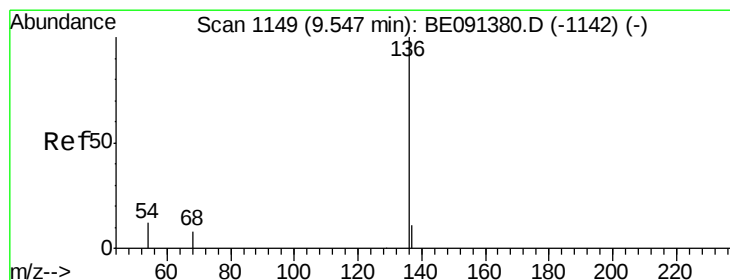
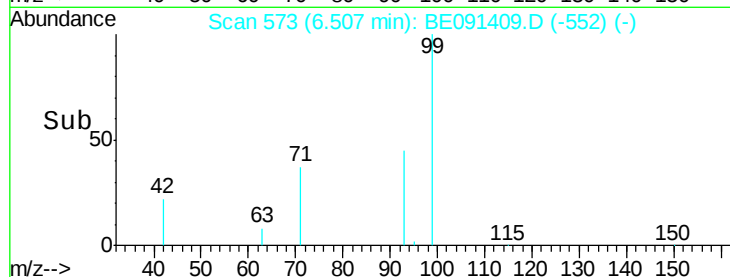
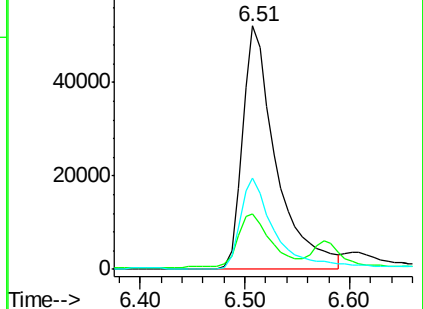
71 39.8 25.6 38.4#



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



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.52 min Scan# 1146

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Tgt Ion: 136 Resp: 200145

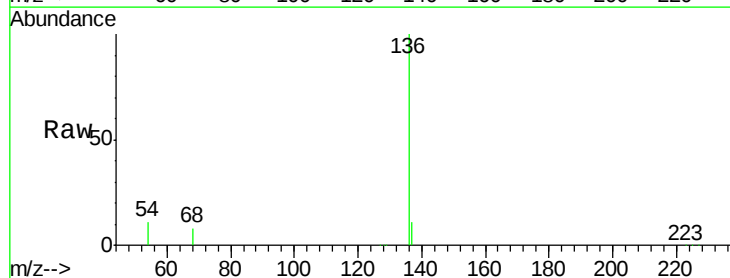
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 11.1 9.3 13.9

68 7.8 6.7 10.1

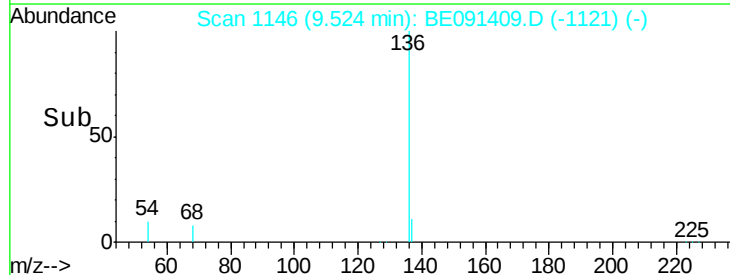
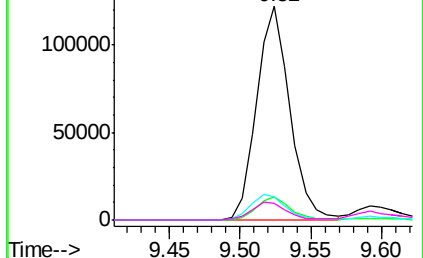


Abundance Ion 136.00 (135.70 to 136.70): E

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





#5

Nitrobenzene-d5

Concen: 5.59 ng

RT: 8.12 min Scan# 851

Delta R.T. -0.05 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

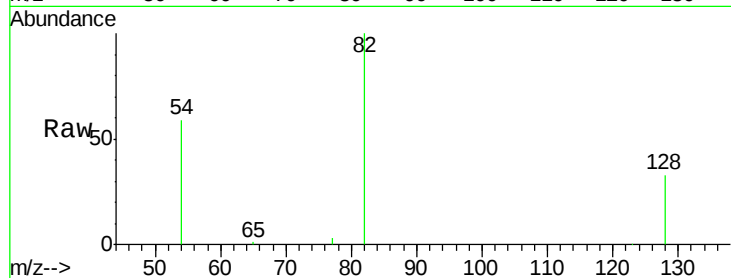
Tot Ion: 82 Resp: 74585

Ion Ratio Lower Upper

82 100

128 32.6 25.0 37.4

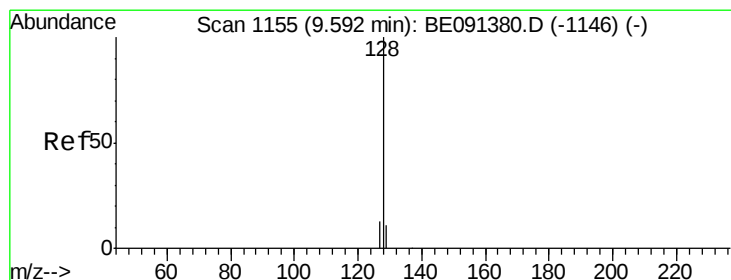
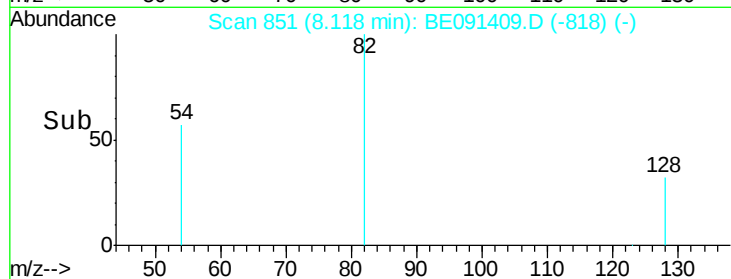
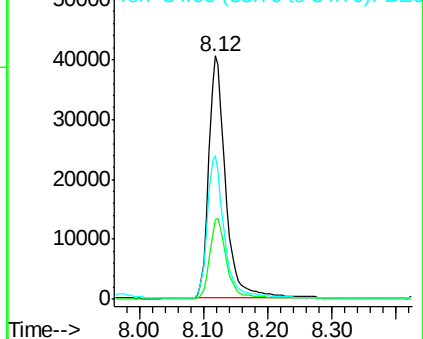
54 59.2 48.1 72.1



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



#6

Naphthalene

Concen: 4.95 ng

RT: 9.56 min Scan# 1151

Delta R.T. -0.03 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

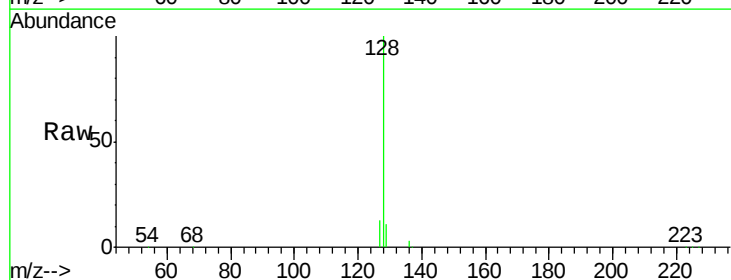
Tgt Ion: 128 Resp: 223340

Ion Ratio Lower Upper

128 100

129 11.0 9.1 13.7

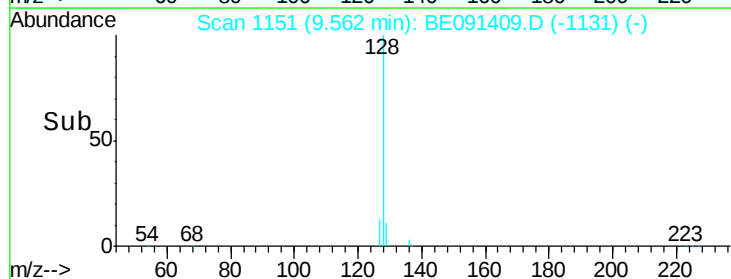
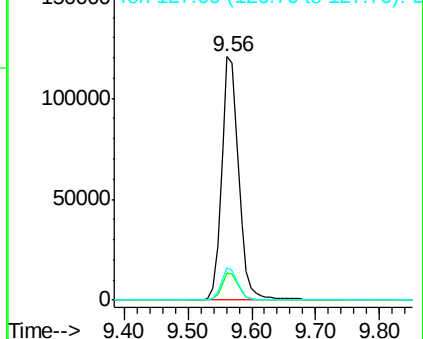
127 13.3 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0





#7

2-Methylnaphthalene

Concen: 5.50 ng

RT: 11.09 min Scan# 1400

Delta R.T. -0.04 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

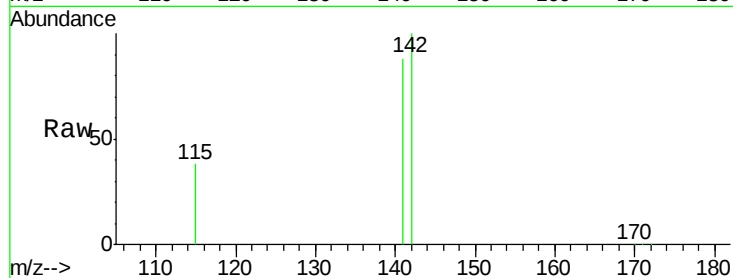
Tot Ion:142 Resp: 155010

Ion Ratio Lower Upper

142 100

141 88.0 72.3 108.5

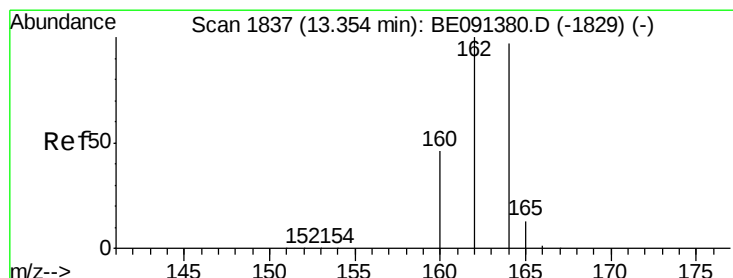
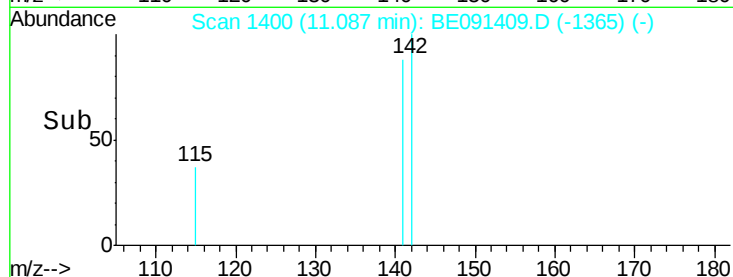
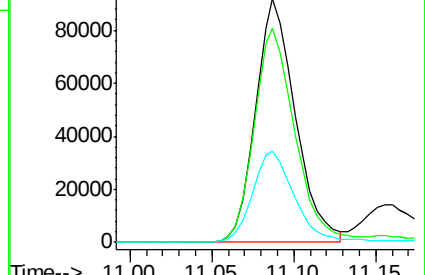
115 37.6 30.5 45.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 1835

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

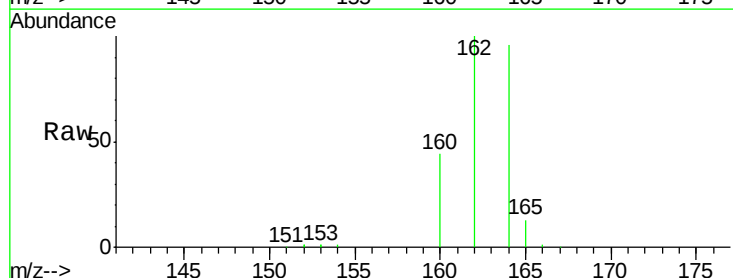
Tgt Ion:164 Resp: 128081

Ion Ratio Lower Upper

164 100

162 104.4 82.2 123.2

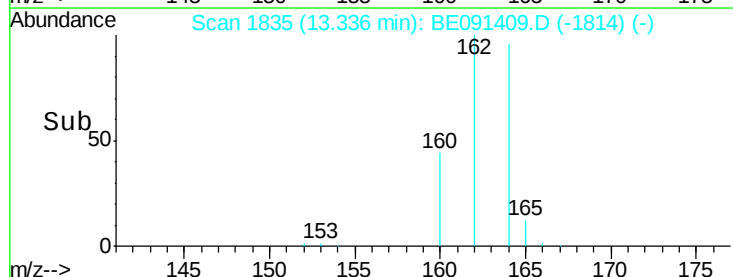
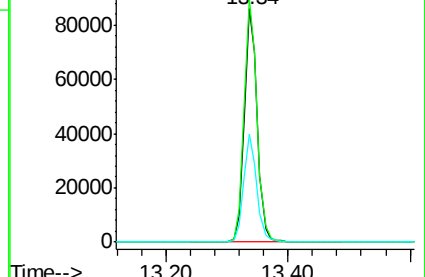
160 46.5 37.8 56.8



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





#9

2,4,6-Tribromophenol

Concen: 8.88 ng

RT: 14.88 min Scan# 2001

Delta R.T. -0.03 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

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ClientSampleId :

LIBERTY-SF-005MSD

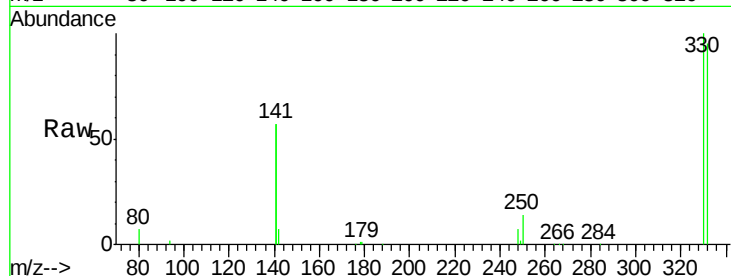
Tot Ion:330 Resp: 55885

Ion Ratio Lower Upper

330 100

332 97.5 78.8 118.2

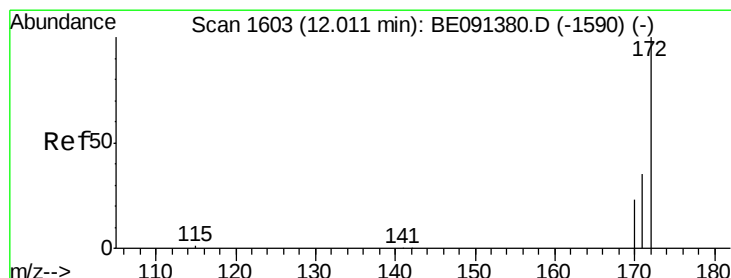
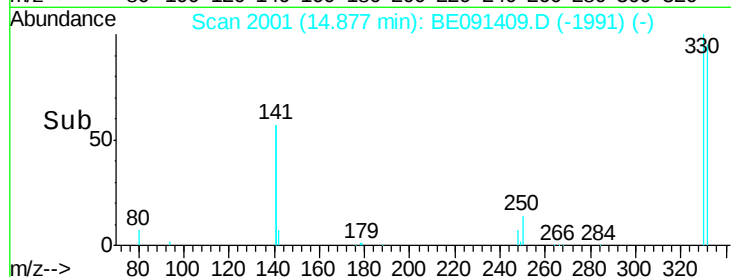
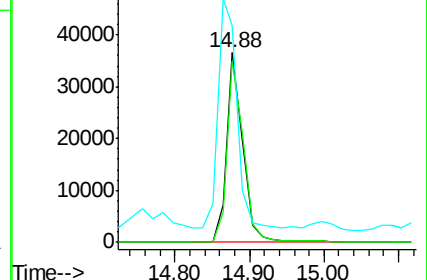
141 155.2 105.1 157.7



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



#10

2-Fluorobiphenyl

Concen: 5.18 ng

RT: 11.97 min Scan# 1595

Delta R.T. -0.04 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

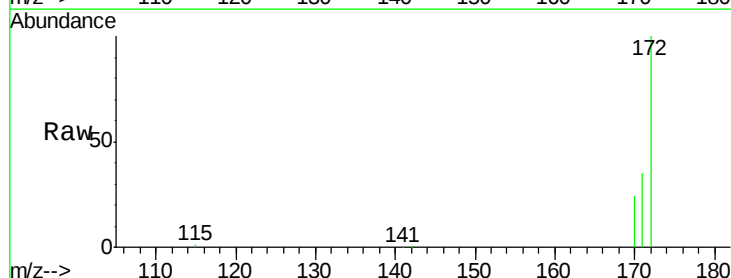
Tgt Ion:172 Resp: 172600

Ion Ratio Lower Upper

172 100

171 35.1 27.8 41.8

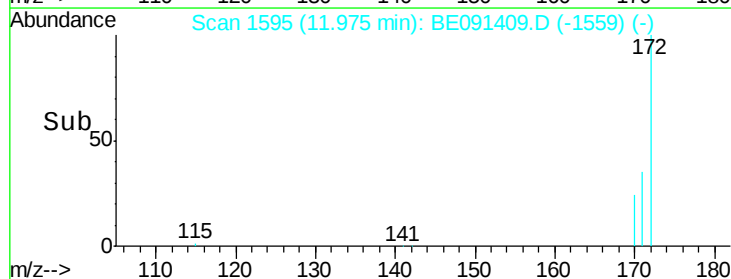
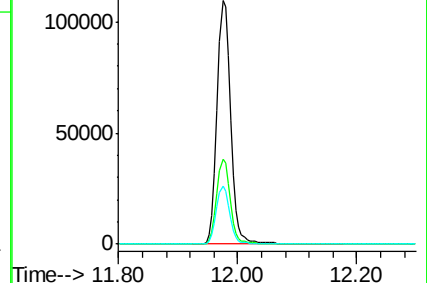
170 23.6 18.6 28.0

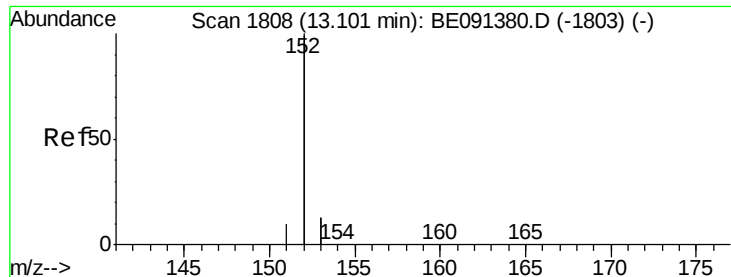


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#11

Acenaphthylene

Concen: 5.07 ng

RT: 13.08 min Scan# 1806

Delta R.T. -0.02 min

Lab File: BE091409.D

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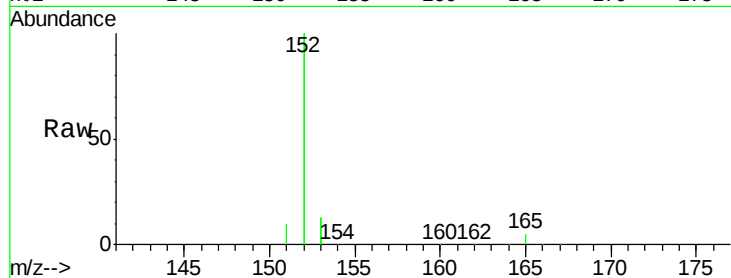
Tot Ion:152 Resp: 1134418

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

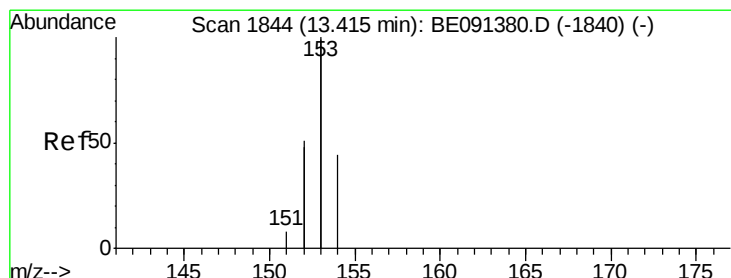
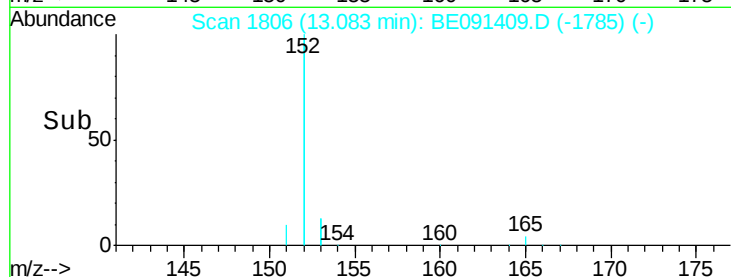
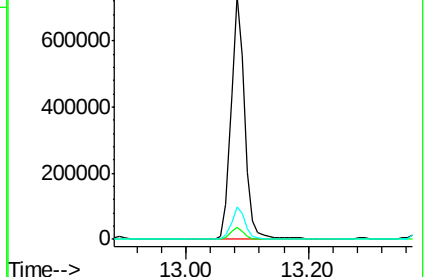
153 13.1 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#12

Acenaphthene

Concen: 4.91 ng

RT: 13.40 min Scan# 1842

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

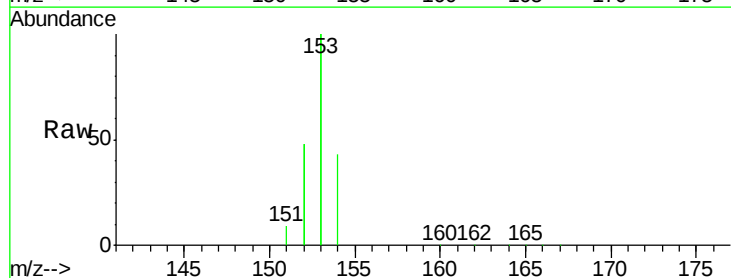
Tgt Ion:154 Resp: 172837

Ion Ratio Lower Upper

154 100

153 457.6 369.8 554.8

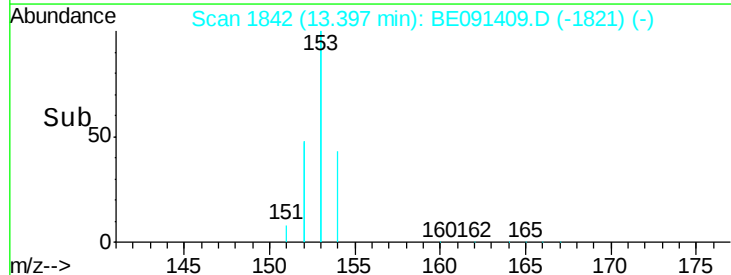
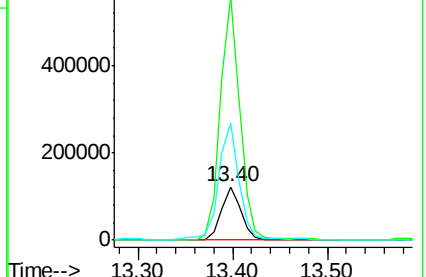
152 224.2 194.4 291.6

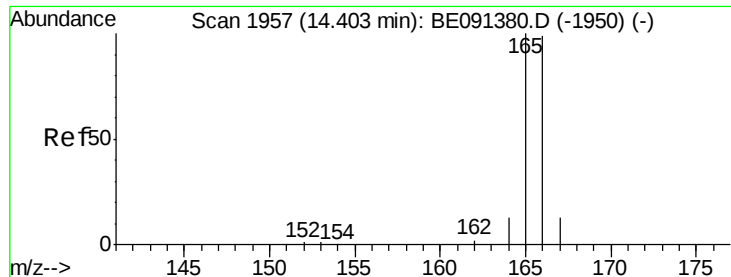


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#13

Fluorene

Concen: 5.33 ng

RT: 14.39 min Scan# 1955

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

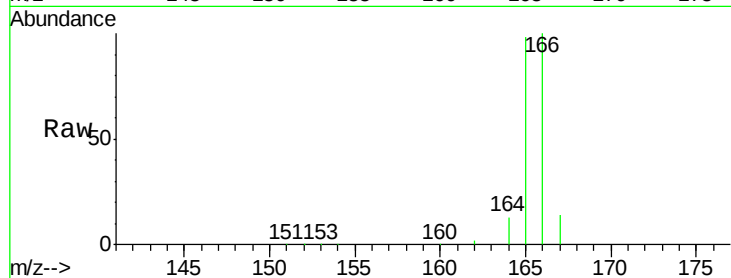
Tot Ion:166 Resp: 241876

Ion Ratio Lower Upper

166 100

165 98.9 79.3 118.9

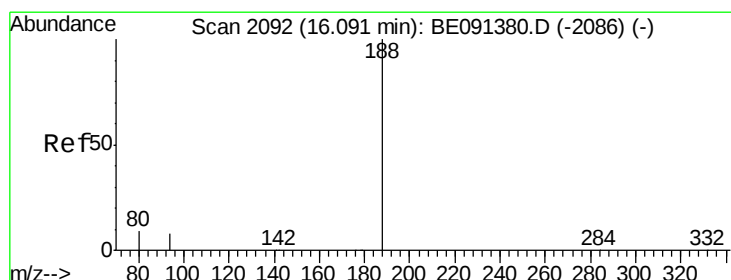
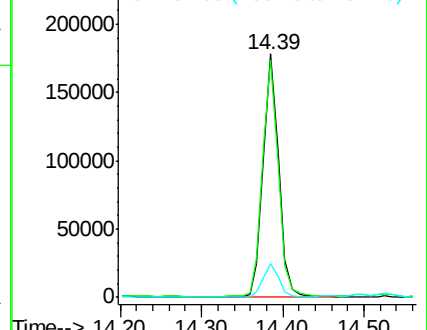
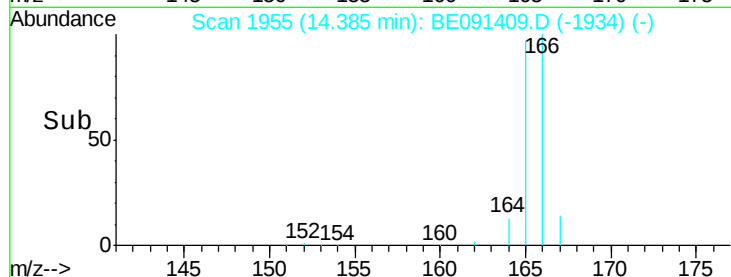
167 14.0 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#14

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.08 min Scan# 2091

Delta R.T. -0.01 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

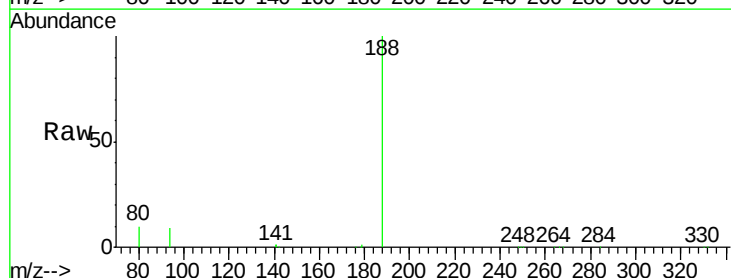
Tgt Ion:188 Resp: 285980

Ion Ratio Lower Upper

188 100

94 9.3 6.6 10.0

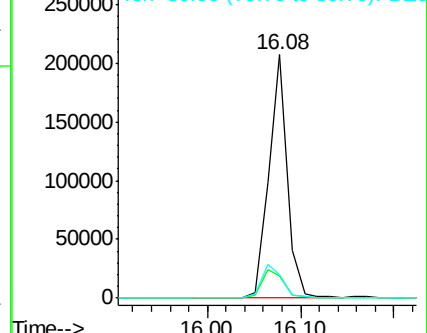
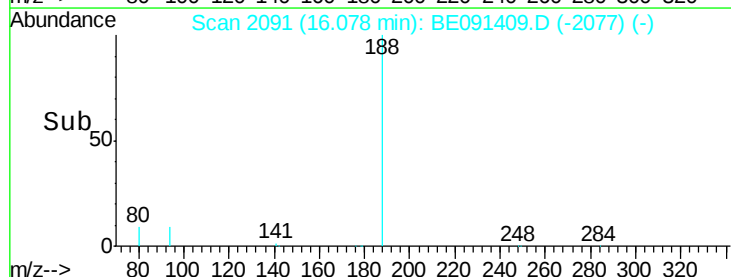
80 9.5 7.0 10.6

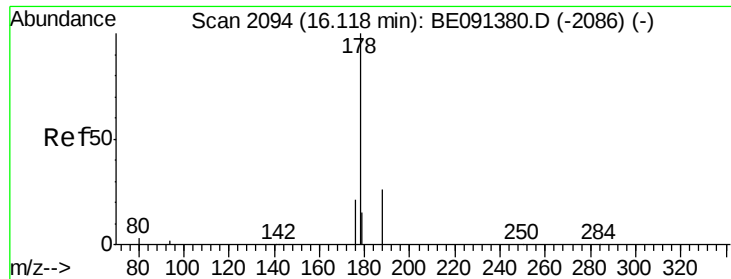


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

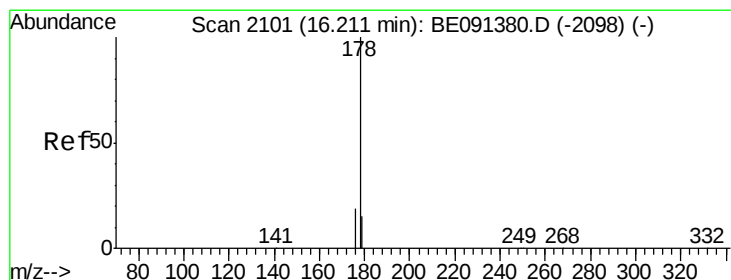
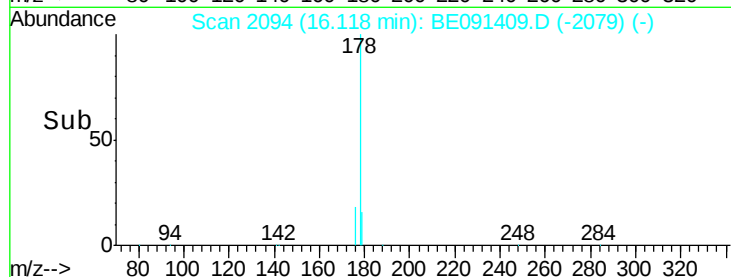
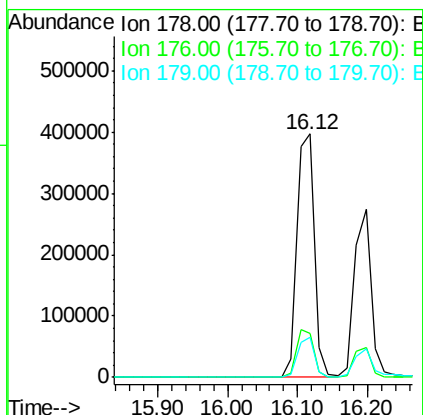
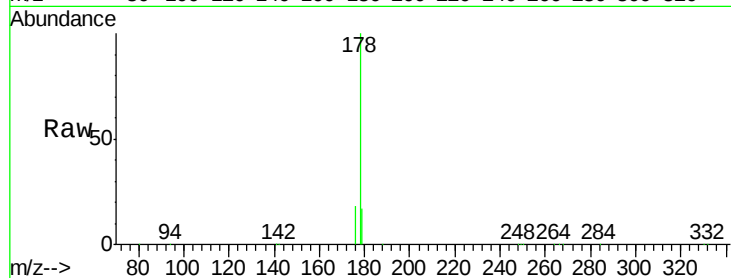




#15  
Phenanthrene  
Concen: 9.16 ng  
RT: 16.12 min Scan# 2094  
Delta R.T. -0.00 min  
Lab File: BE091409.D  
Acq: 17 Feb 2016 18:06

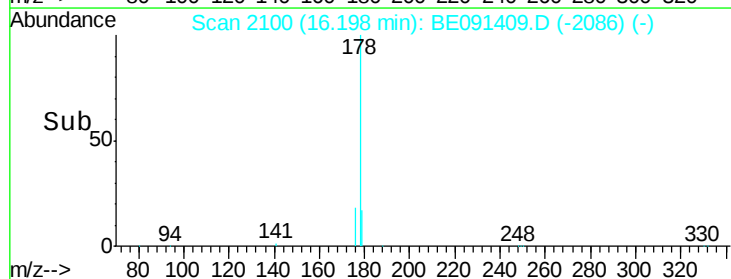
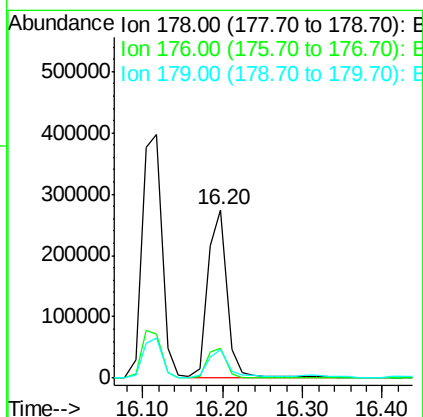
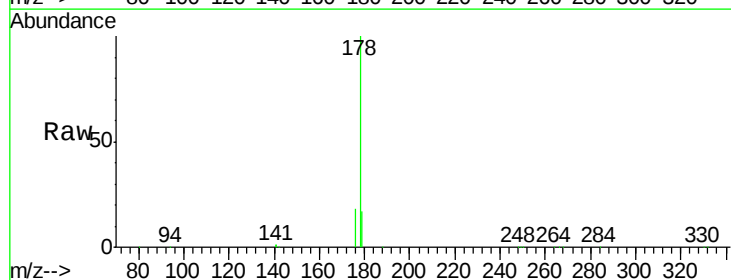
Instrument :  
BNA\_E  
ClientSampleId :  
LIBERTY-SF-005MSD

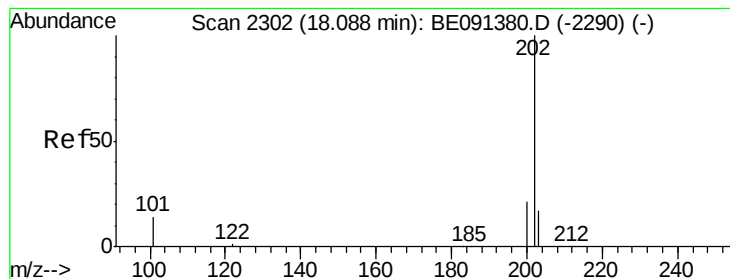
Tot Ion:178 Resp: 687905  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.2  
179 16.0 12.7 19.1



#16  
Anthracene  
Concen: 7.22 ng  
RT: 16.20 min Scan# 2100  
Delta R.T. -0.01 min  
Lab File: BE091409.D  
Acq: 17 Feb 2016 18:06

Tgt Ion:178 Resp: 454532  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.8 22.2  
179 17.8 12.1 18.1





#17

Fluoranthene

Concen: 11.30 ng

RT: 18.07 min Scan# 2300

Delta R.T. -0.01 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

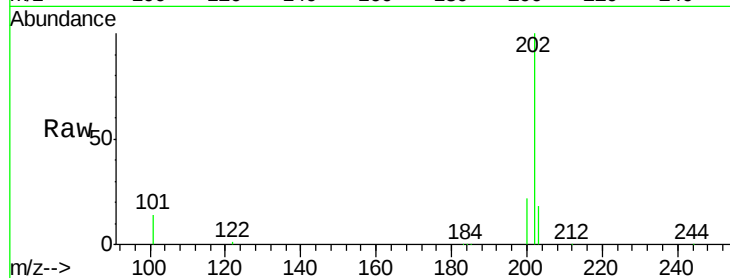
Tot Ion:202 Resp: 902293

Ion Ratio Lower Upper

202 100

101 14.2 10.5 15.7

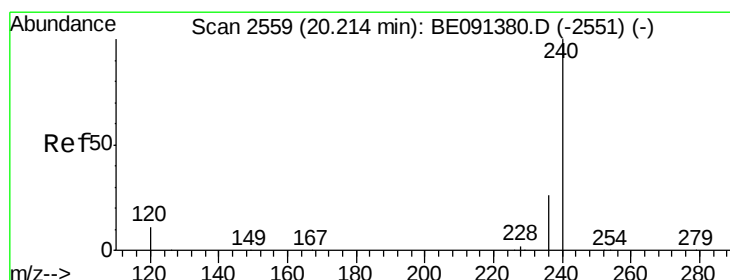
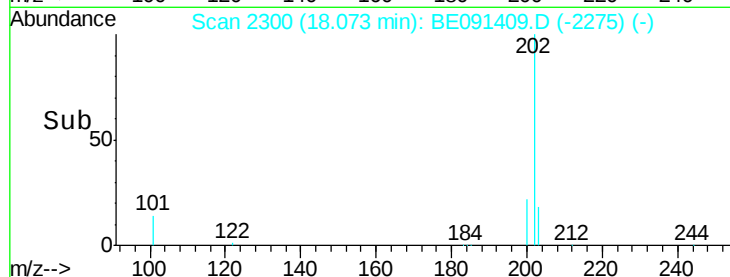
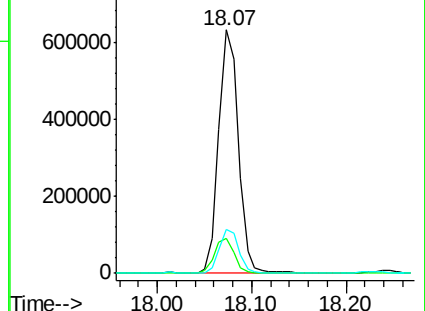
203 18.0 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 2559

Delta R.T. -0.01 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

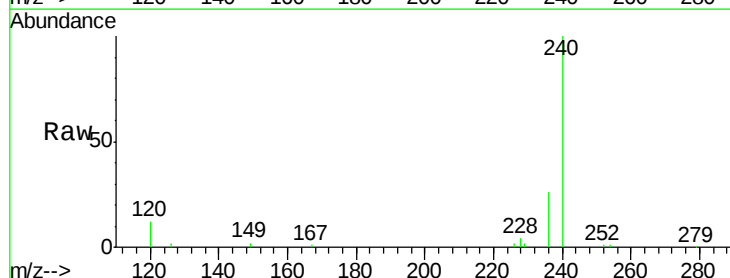
Tgt Ion:240 Resp: 333064

Ion Ratio Lower Upper

240 100

120 12.2 8.9 13.3

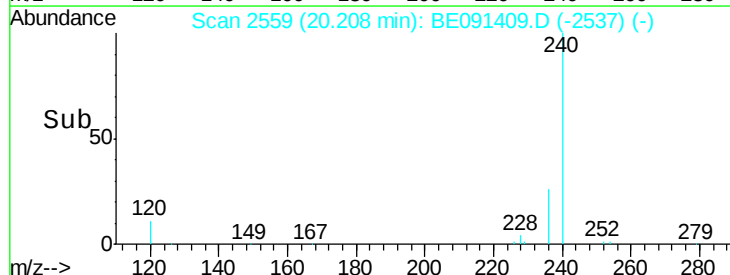
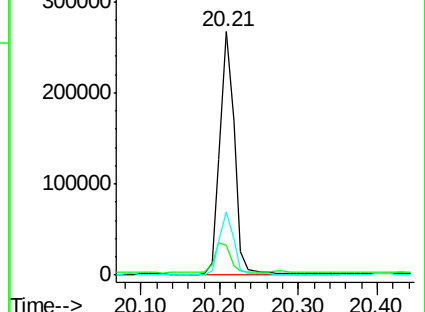
236 25.9 21.0 31.4



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





#19

Pvrene

Concen: 12.06 ng

RT: 18.46 min Scan# 2351

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

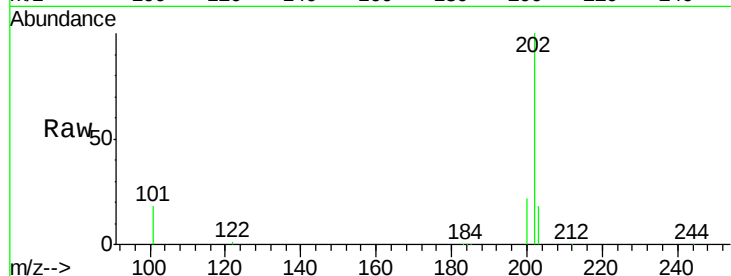
Tot Ion:202 Resp: 870705

Ion Ratio Lower Upper

202 100

200 21.7 16.8 25.2

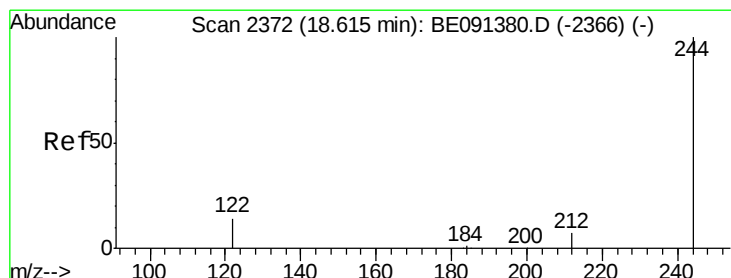
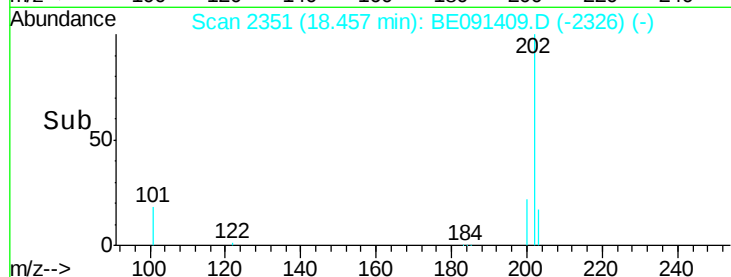
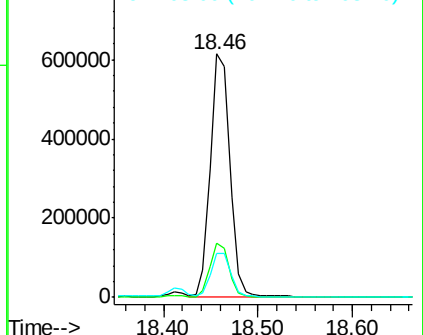
203 18.0 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#20

Terphenyl-d14

Concen: 5.51 ng

RT: 18.60 min Scan# 2370

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

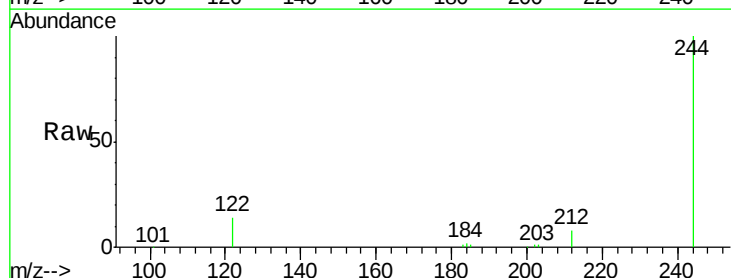
Tgt Ion:244 Resp: 271589

Ion Ratio Lower Upper

244 100

212 8.2 6.1 9.1

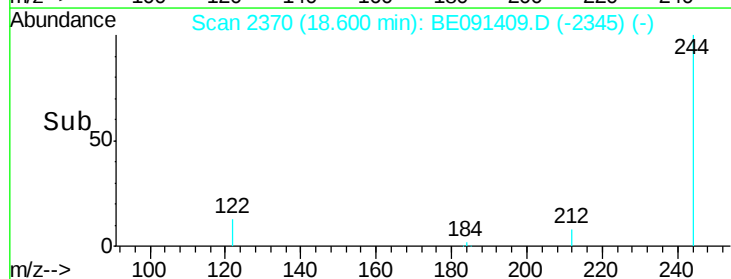
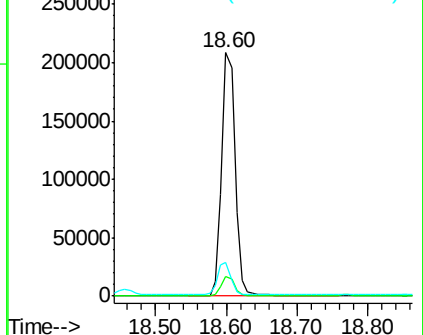
122 13.9 11.0 16.6

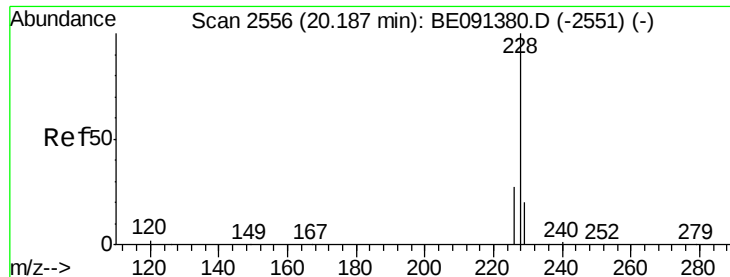


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#21

Benzo(a)anthracene

Concen: 8.48 ng

RT: 20.18 min Scan# 2556

Delta R.T. -0.01 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

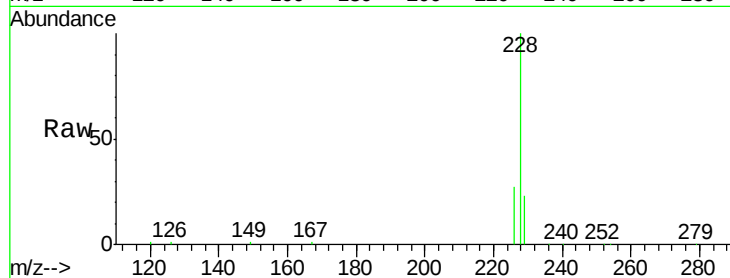
Tot Ion:228 Resp: 639089

Ion Ratio Lower Upper

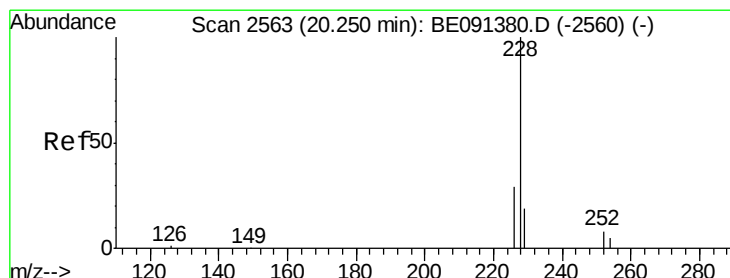
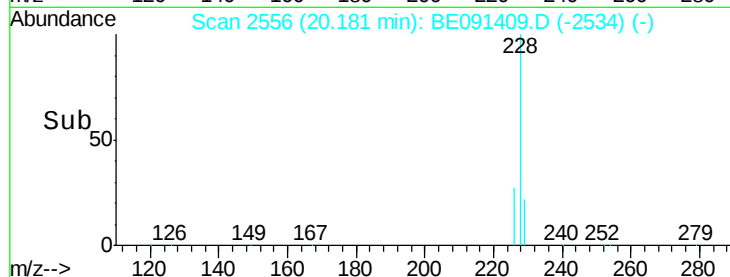
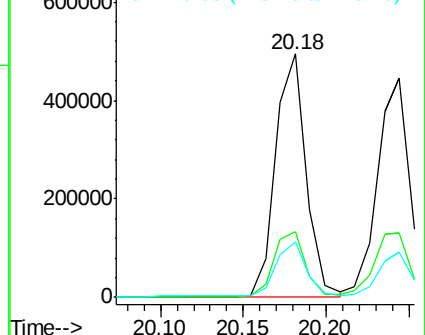
228 100

226 26.9 21.7 32.5

229 22.9 16.1 24.1



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



#22

Chrysene

Concen: 7.45 ng

RT: 20.24 min Scan# 2563

Delta R.T. -0.01 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

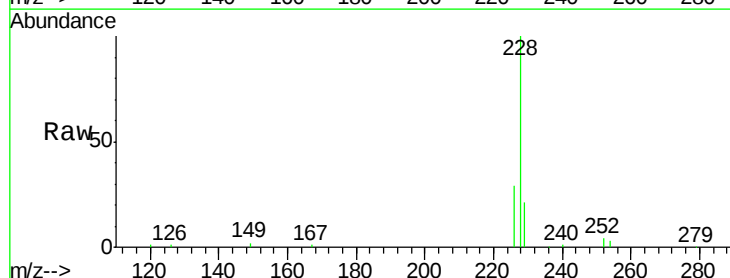
Tgt Ion:228 Resp: 612354

Ion Ratio Lower Upper

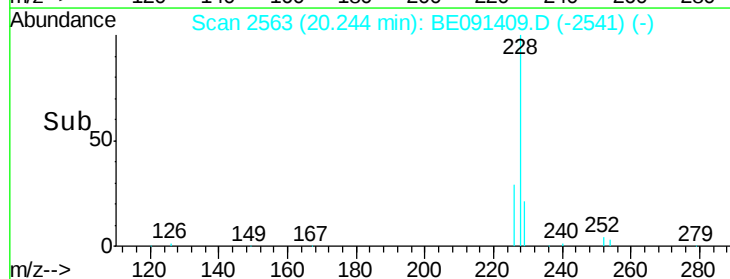
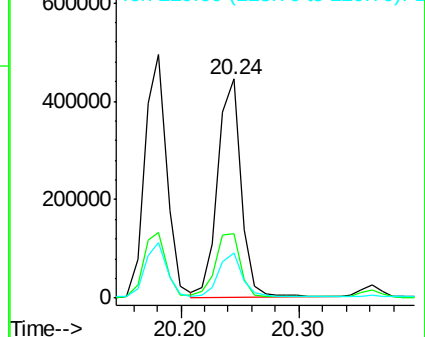
228 100

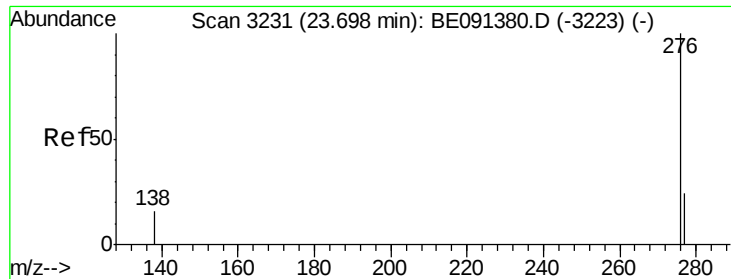
226 29.2 23.4 35.0

229 20.9 15.7 23.5



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





#23

Indeno(1,2,3-cd)pyrene

Concen: 7.22 ng

RT: 23.68 min Scan# 3228

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

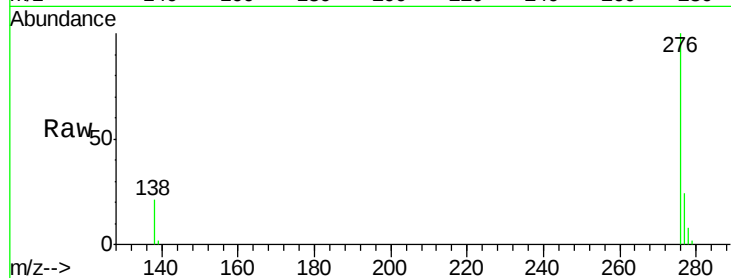
Tot Ion:276 Resp: 553153

Ion Ratio Lower Upper

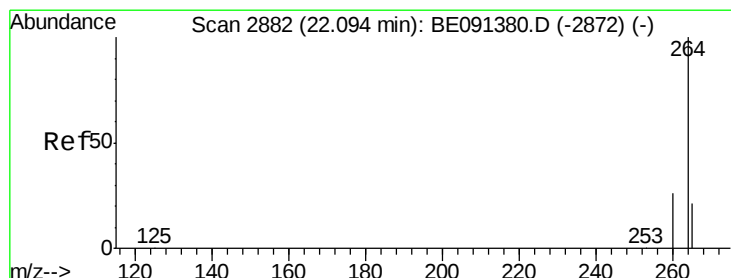
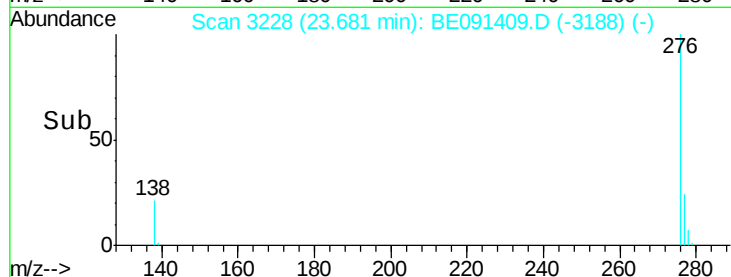
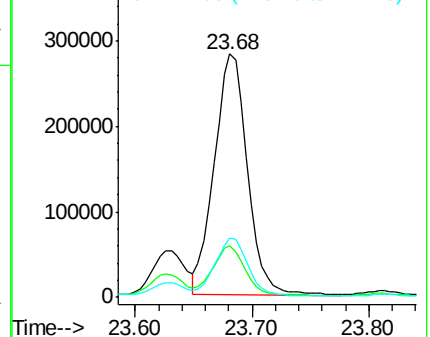
276 100

138 20.0 16.6 25.0

277 23.8 19.0 28.6



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



#24

Perylene-d12

Concen: 5.00 ng

RT: 22.09 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

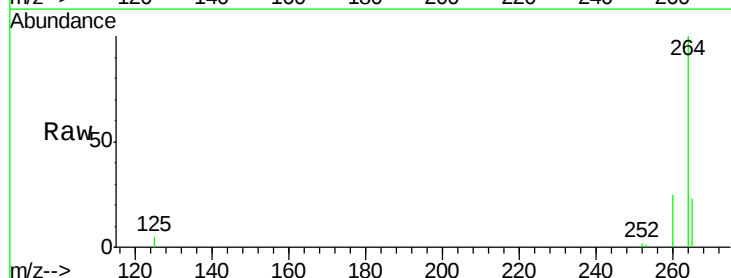
Tgt Ion:264 Resp: 343875

Ion Ratio Lower Upper

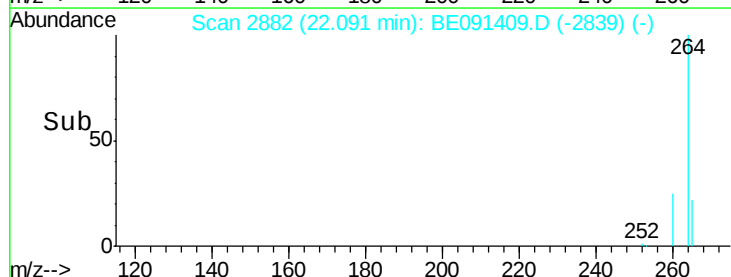
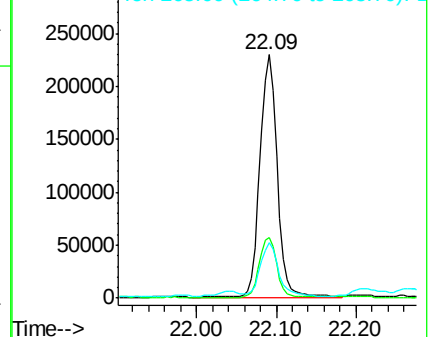
264 100

260 25.0 20.7 31.1

265 22.6 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

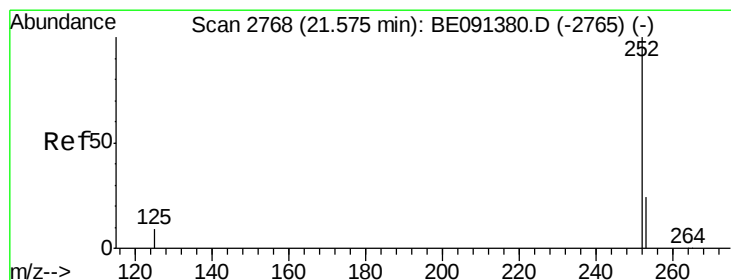
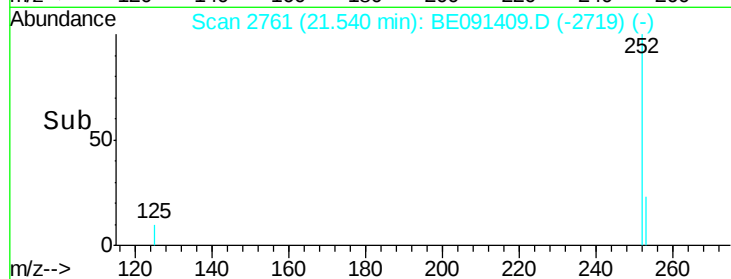
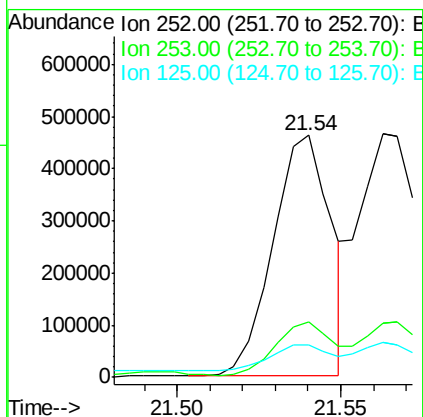
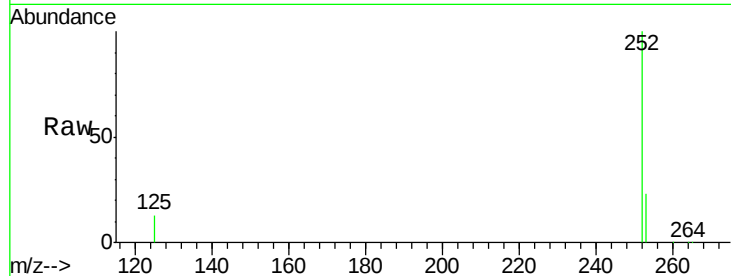




#25  
Benzo(b)fluoranthene  
Concen: 6.57 ng  
RT: 21.54 min Scan# 2761  
Delta R.T. -0.01 min  
Lab File: BE091409.D  
Acq: 17 Feb 2016 18:06

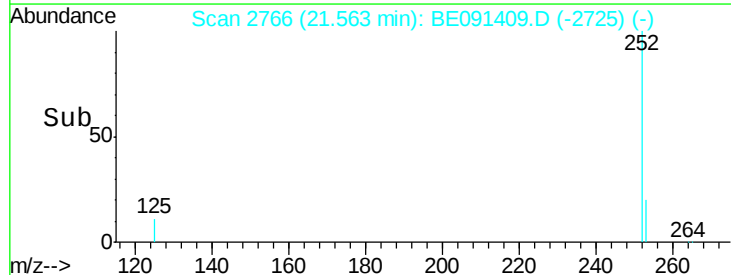
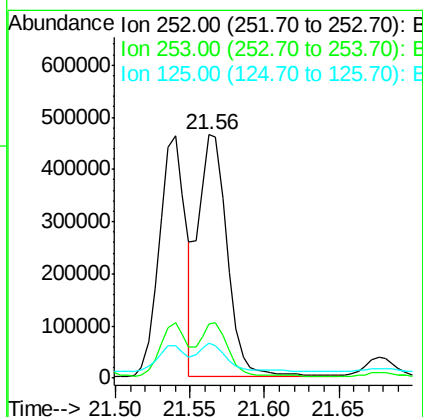
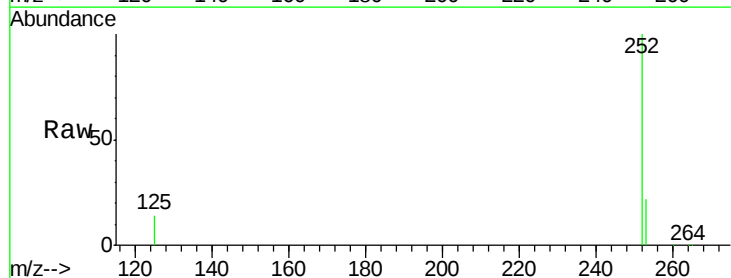
Instrument :  
BNA\_E  
ClientSampleId :  
LIBERTY-SF-005MSD

Tot Ion:252 Resp: 566754  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.2 27.2  
125 13.2 8.3 12.5#



#26  
Benzo(k)fluoranthene  
Concen: 7.35 ng  
RT: 21.56 min Scan# 2766  
Delta R.T. -0.01 min  
Lab File: BE091409.D  
Acq: 17 Feb 2016 18:06

Tgt Ion:252 Resp: 631804  
Ion Ratio Lower Upper  
252 100  
253 22.2 18.1 27.1  
125 14.2 8.2 12.4#





#27

Benzo(a)pyrene

Concen: 7.67 ng

RT: 22.00 min Scan# 2861

Delta R.T. -0.01 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

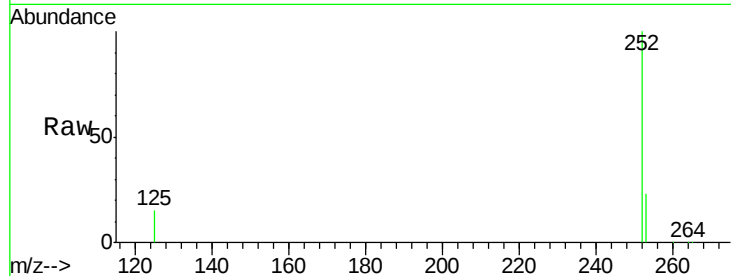
Tot Ion:252 Resp: 614416

Ion Ratio Lower Upper

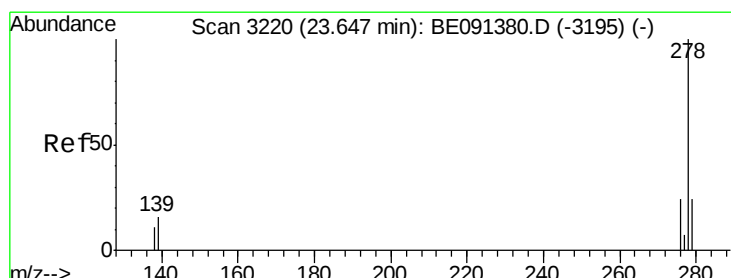
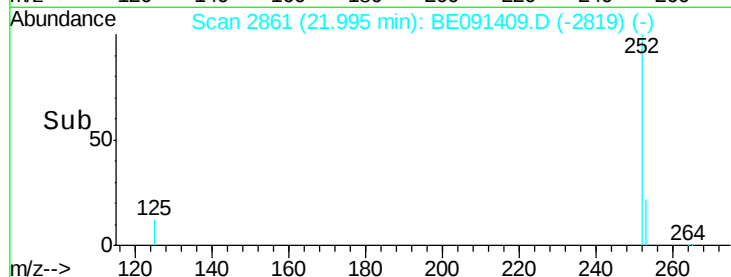
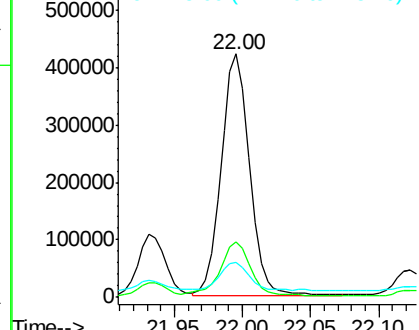
252 100

253 22.8 17.5 26.3

125 14.6 9.4 14.0#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#28

Dibenzo(a,h)anthracene

Concen: 5.63 ng

RT: 23.63 min Scan# 3217

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

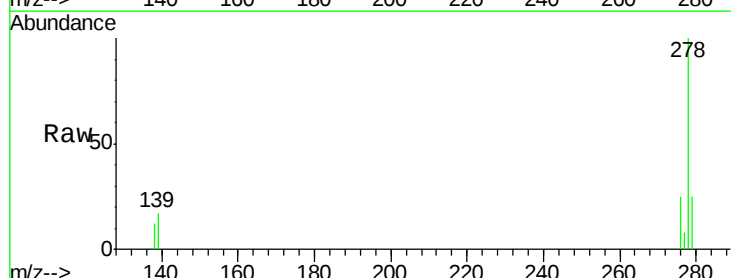
Tgt Ion:278 Resp: 443678

Ion Ratio Lower Upper

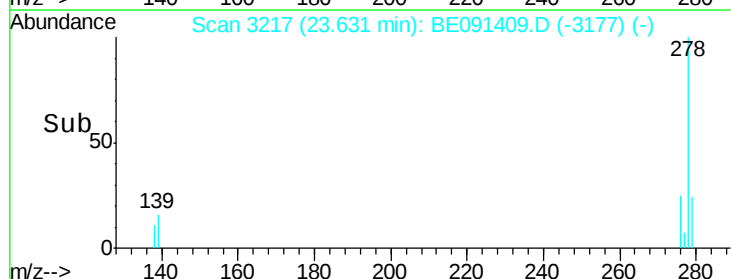
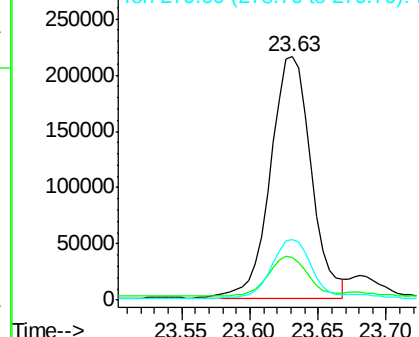
278 100

139 17.5 13.0 19.4

279 25.1 19.2 28.8



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





#29

Benzo(a,h,i)perylene

Concen: 6.85 ng

RT: 24.23 min Scan# 3348

Delta R.T. -0.02 min

Lab File: BE091409.D

Acq: 17 Feb 2016 18:06

Instrument :

BNA\_E

ClientSampleId :

LIBERTY-SF-005MSD

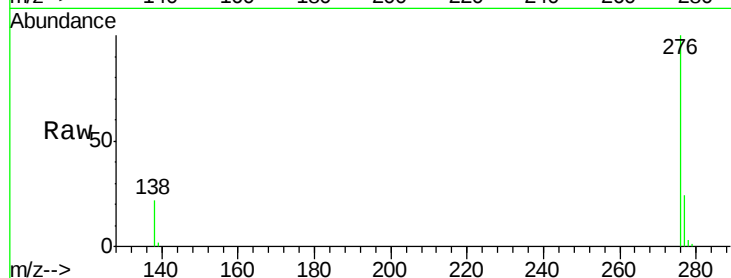
Tot Ion: 276 Resp: 590180

Ion Ratio Lower Upper

276 100

277 23.9 18.9 28.3

138 22.4 17.0 25.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

