

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE081916\  
 Data File : BE092274.D  
 Acq On : 19 Aug 2016 17:37  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Aug 22 00:54:49 2016  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE080916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 10 11:12:32 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.19  | 152  | 10366    | 5.00 | ng    | 0.02     |
| 7) Naphthalene-d8         | 10.97 | 136  | 50053    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.83 | 164  | 28576    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10      | 17.58 | 188  | 72093    | 5.00 | ng    | 0.02     |
| 24) Chrysene-d12          | 21.77 | 240  | 64216    | 5.00 | ng    | 0.02     |
| 31) Perylene-d12          | 24.13 | 264  | 65243    | 5.00 | ng    | 0.00     |

|                             |       |     |      |      |    |       |
|-----------------------------|-------|-----|------|------|----|-------|
| System Monitoring Compounds |       |     |      |      |    |       |
| 4) 2-Fluorophenol           | 5.71  | 112 | 876  | 0.39 | ng | 0.00  |
| 5) Phenol-d6                | 7.38  | 99  | 1115 | 0.34 | ng | 0.02  |
| 8) Nitrobenzene-d5          | 9.27  | 82  | 135  | 0.04 | ng | -0.09 |
| 13) 2,4,6-Tribromophenol    | 16.33 | 330 | 290  | 0.50 | ng | 0.00  |
| 14) 2-Fluorobiphenyl        | 13.46 | 172 | 3648 | 0.41 | ng | -0.01 |
| 26) Terphenyl-d14           | 20.19 | 244 | 4237 | 0.39 | ng | 0.00  |

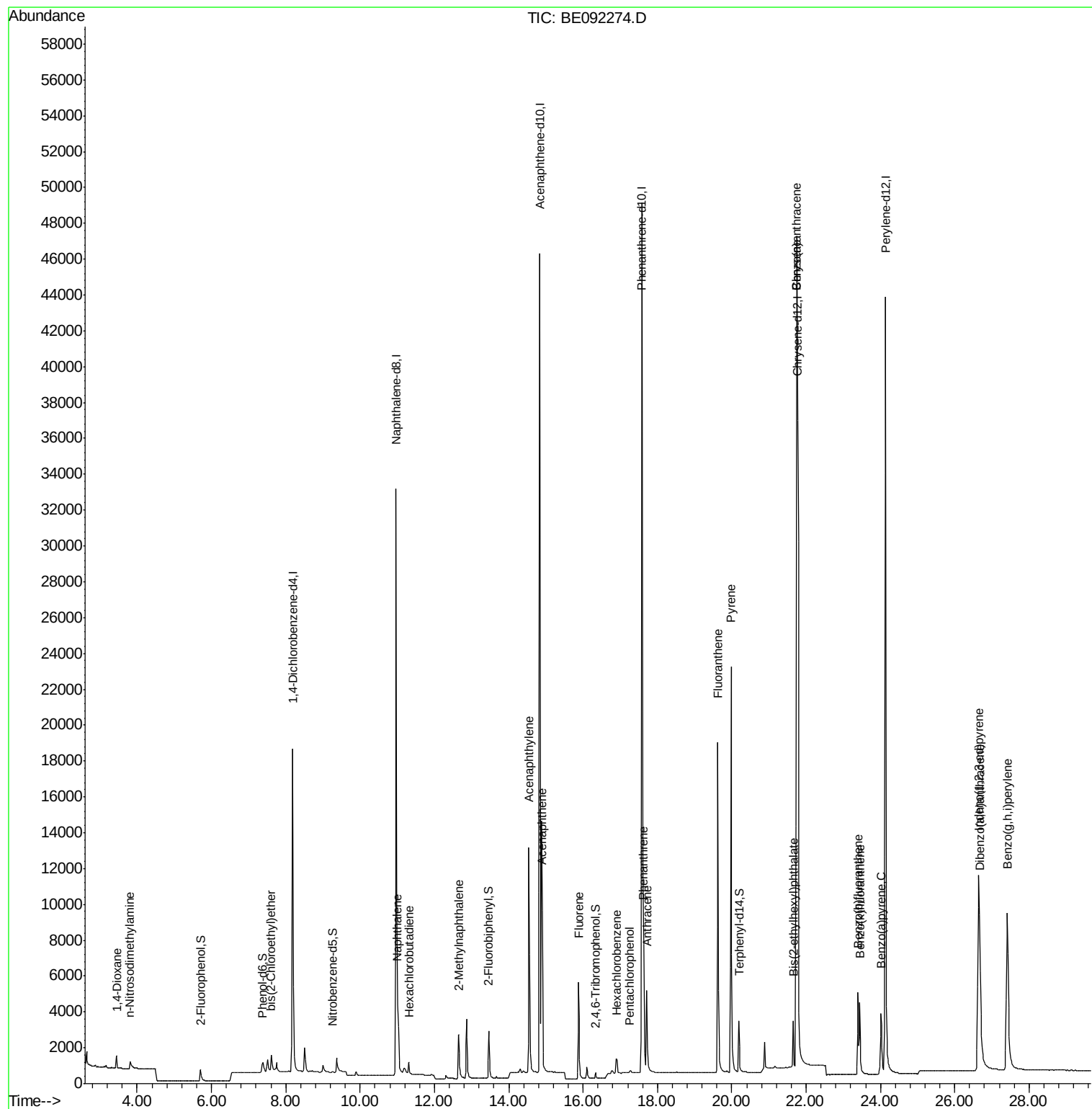
|                                |       |     |       |        |    |       |
|--------------------------------|-------|-----|-------|--------|----|-------|
| Target Compounds               |       |     |       | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.44  | 88  | 598   | 0.44   | ng | 95    |
| 3) n-Nitrosodimethylamine      | 3.81  | 42  | 643   | 0.48   | ng | # 95  |
| 6) bis(2-Chloroethyl)ether     | 7.61  | 93  | 1042  | 0.39   | ng | 99    |
| 9) Naphthalene                 | 11.01 | 128 | 4611  | 0.41   | ng | # 94  |
| 10) Hexachlorobutadiene        | 11.32 | 225 | 687   | 0.42   | ng | 98    |
| 11) 2-Methylnaphthalene        | 12.66 | 142 | 2906  | 0.41   | ng | 95    |
| 15) Acenaphthylene             | 14.54 | 152 | 19700 | 0.40   | ng | 99    |
| 16) Acenaphthene               | 14.90 | 154 | 3281  | 0.41   | ng | 99    |
| 17) Fluorene                   | 15.88 | 166 | 3949  | 0.41   | ng | 98    |
| 19) Hexachlorobenzene          | 16.91 | 284 | 1161  | 0.41   | ng | # 100 |
| 20) Pentachlorophenol          | 17.26 | 266 | 202   | 0.38   | ng | 97    |
| 21) Phenanthrene               | 17.63 | 178 | 7518  | 0.40   | ng | 99    |
| 22) Anthracene                 | 17.72 | 178 | 6367  | 0.38   | ng | 100   |
| 23) Fluoranthene               | 19.63 | 202 | 28062 | 0.38   | ng | 99    |
| 25) Pyrene                     | 19.99 | 202 | 30367 | 0.40   | ng | 100   |
| 27) Benzo(a)anthracene         | 21.75 | 228 | 29963 | 0.39   | ng | 99    |
| 28) Chrysene                   | 21.75 | 228 | 29961 | 0.42   | ng | 92    |
| 29) Bis(2-ethylhexyl)phthalate | 21.66 | 149 | 2938  | 0.45   | ng | # 98  |
| 30) Indeno(1,2,3-cd)pyrene     | 26.65 | 276 | 28051 | 0.37   | ng | 100   |
| 32) Benzo(b)fluoranthene       | 23.39 | 252 | 6530  | 0.38   | ng | 99    |
| 33) Benzo(k)fluoranthene       | 23.44 | 252 | 7118  | 0.41   | ng | 98    |
| 34) Benzo(a)pyrene             | 24.02 | 252 | 6140  | 0.38   | ng | 98    |
| 35) Dibenzo(a,h)anthracene     | 26.67 | 278 | 5545  | 0.37   | ng | 100   |
| 36) Benzo(g,h,i)perylene       | 27.42 | 276 | 24974 | 0.39   | ng | 99    |

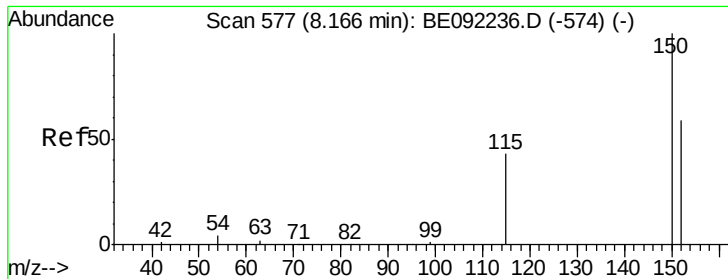
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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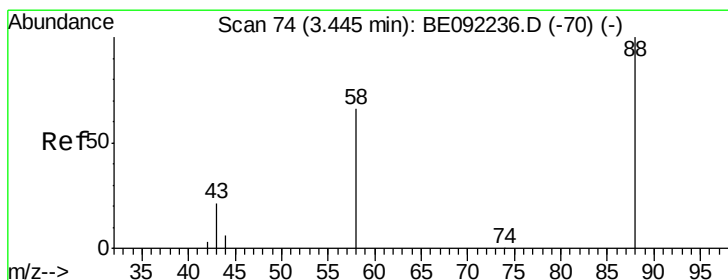
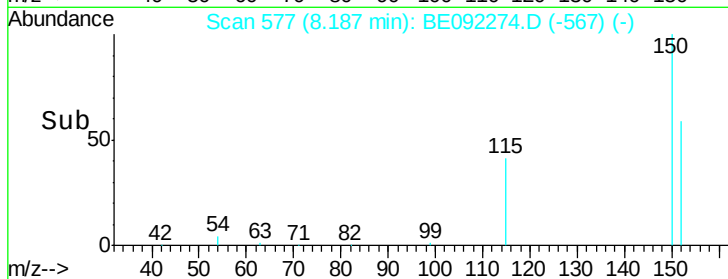
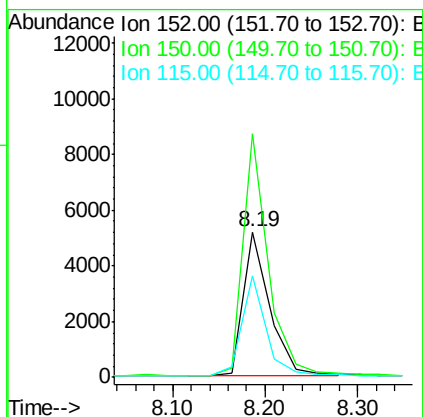
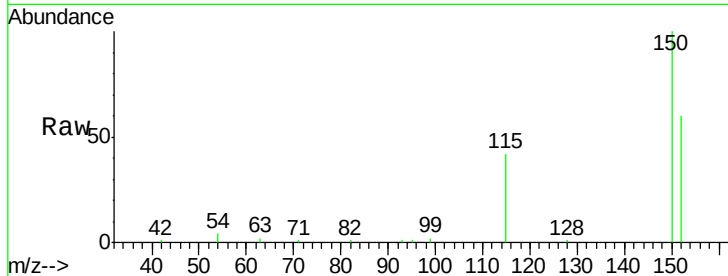




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 5.00 ng  
 RT: 8.19 min Scan# 577  
 Delta R.T. 0.02 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

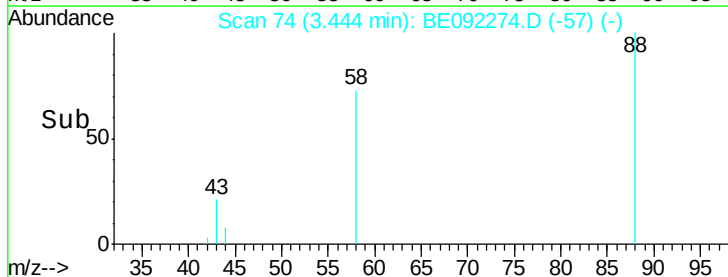
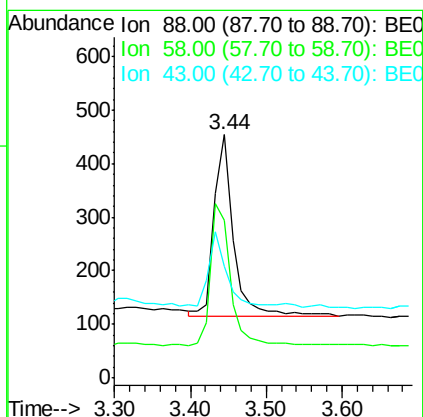
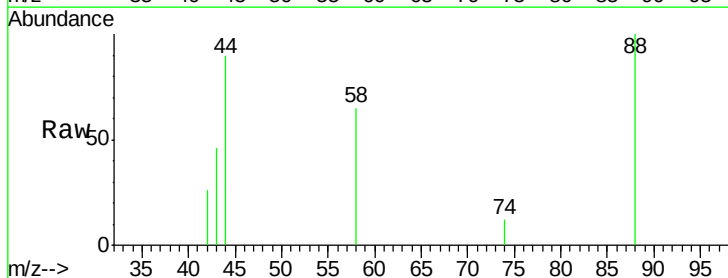
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

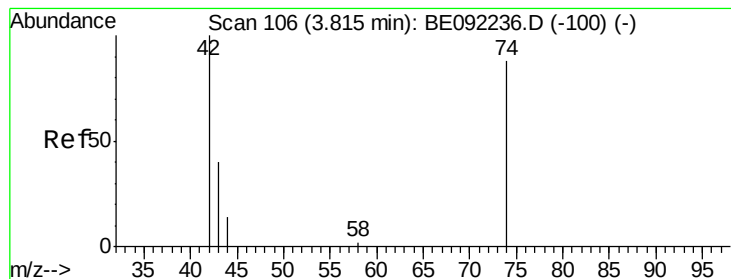
Tgt Ion: 152 Resp: 10366  
 Ion Ratio Lower Upper  
 152 100  
 150 167.8 135.6 203.4  
 115 70.2 59.4 89.0



#2  
 1,4-Dioxane  
 Concen: 0.44 ng  
 RT: 3.44 min Scan# 74  
 Delta R.T. 0.00 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

Tgt Ion: 88 Resp: 598  
 Ion Ratio Lower Upper  
 88 100  
 58 79.3 64.4 96.6  
 43 35.1 33.4 50.2

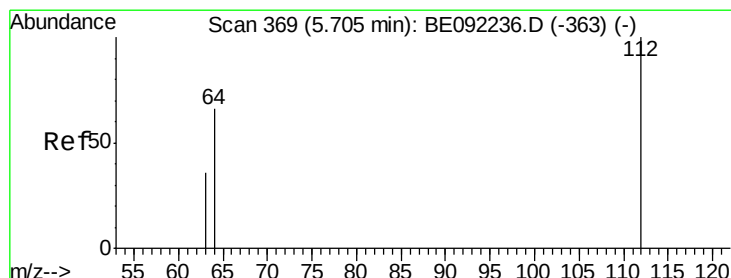
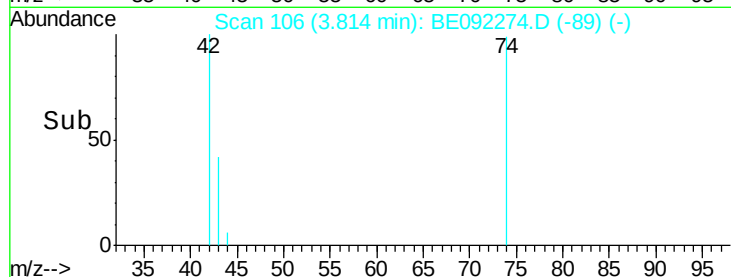
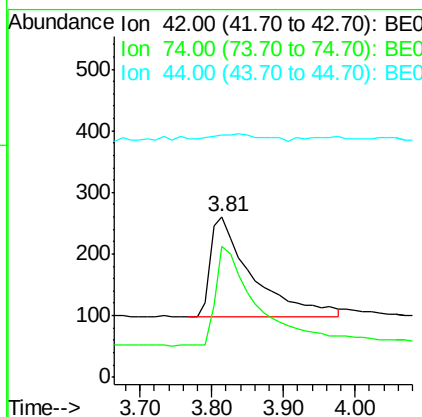
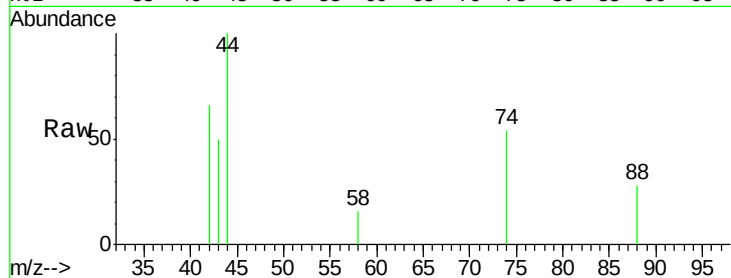




#3  
n-Nitrosodimethylamine  
Concen: 0.48 ng  
RT: 3.81 min Scan# 106  
Delta R.T. 0.00 min  
Lab File: BE092274.D  
Acq: 19 Aug 2016 17:37

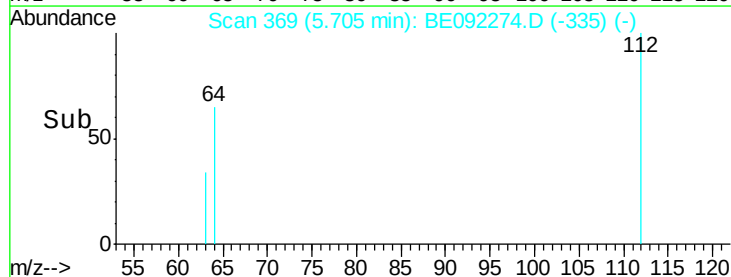
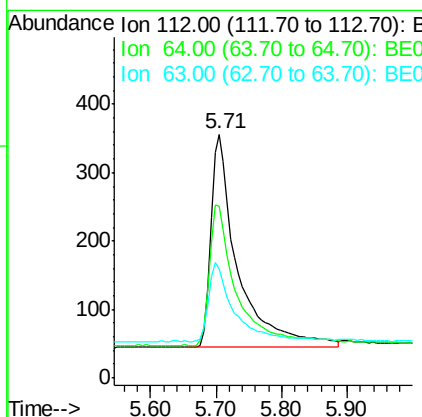
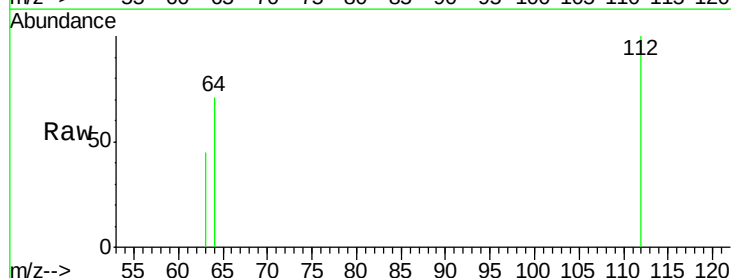
Instrument :  
BNA\_E  
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SSTDCCC0.4EC

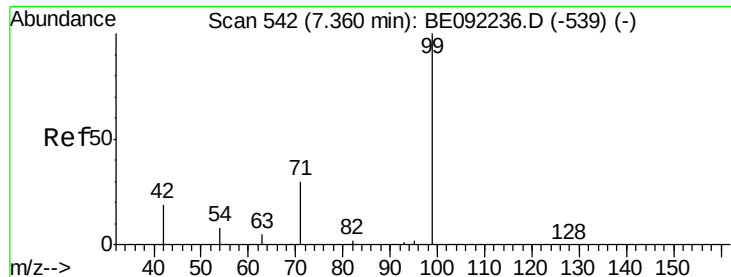
Tgt Ion: 42 Resp: 643  
Ion Ratio Lower Upper  
42 100  
74 100.5 77.2 115.8  
44 0.0 5.0 7.4#



#4  
2-Fluorophenol  
Concen: 0.39 ng  
RT: 5.71 min Scan# 369  
Delta R.T. -0.00 min  
Lab File: BE092274.D  
Acq: 19 Aug 2016 17:37

Tgt Ion: 112 Resp: 876  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.2 79.8  
63 36.6 27.4 41.2





#5

Phenol-d6

Concen: 0.34 ng

RT: 7.38 min Scan# 542

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

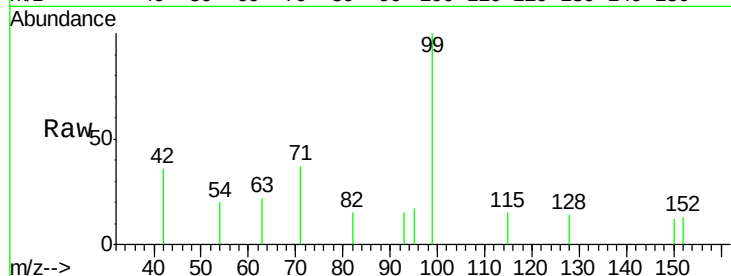
Tgt Ion: 99 Resp: 1115

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

71 0.0 29.8 44.8#



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

Time-->

7.20 7.30 7.40 7.50

7.38

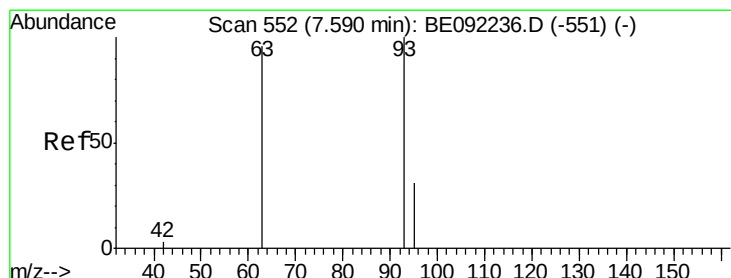
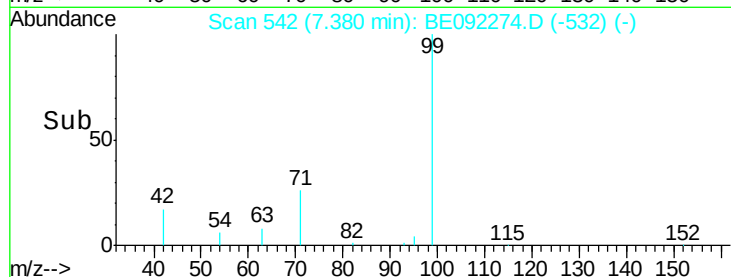
400

300

200

100

0



#6

bis(2-Chloroethyl)ether

Concen: 0.39 ng

RT: 7.61 min Scan# 552

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

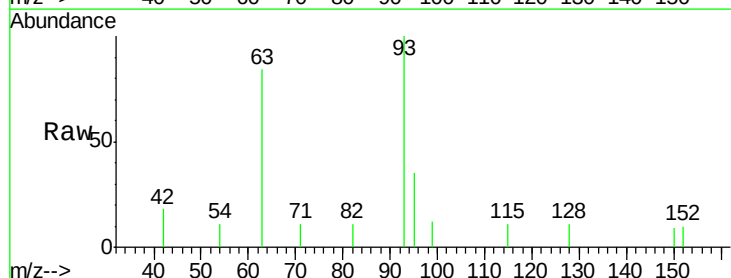
Tgt Ion: 93 Resp: 1042

Ion Ratio Lower Upper

93 100

63 85.7 68.5 102.7

95 33.0 27.2 40.8



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

Time-->

7.60 7.70

7.61

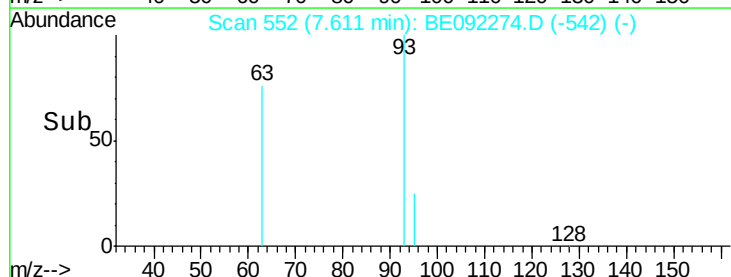
800

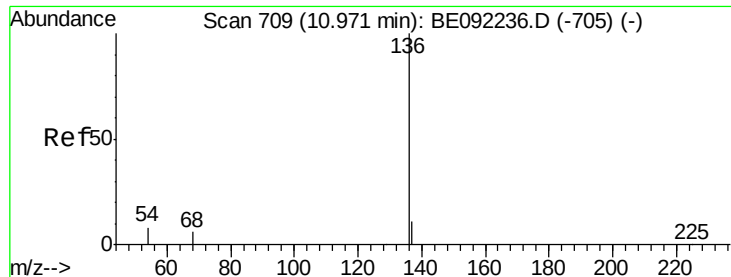
600

400

200

0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.97 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:136 Resp: 50053

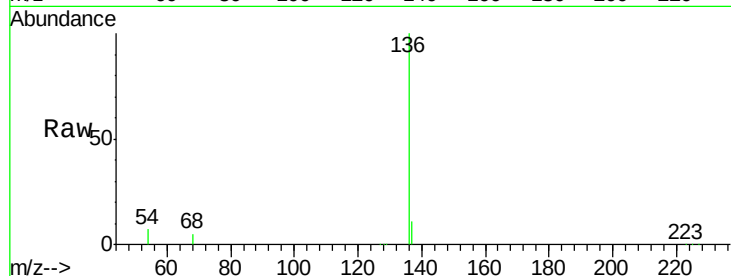
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 7.3 6.2 9.4

68 5.3 4.6 6.8

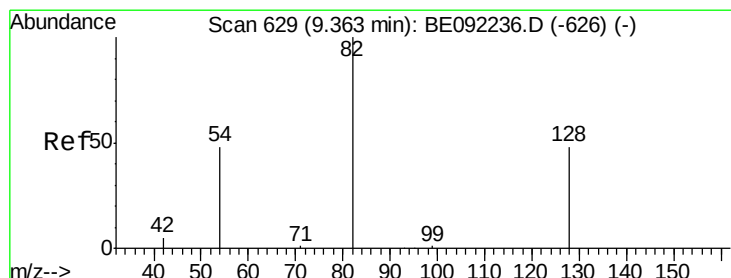
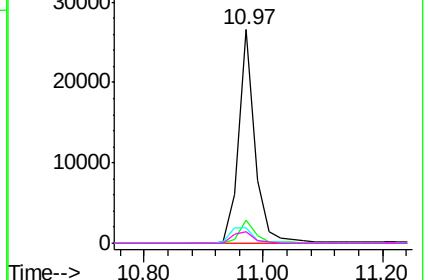
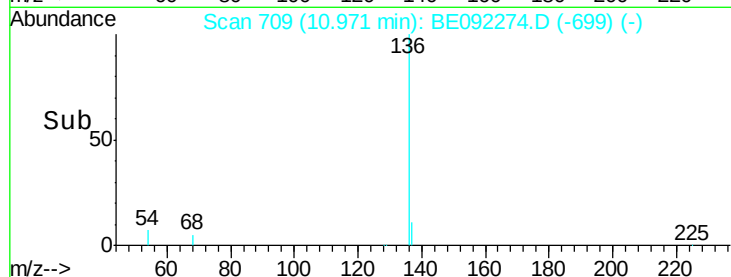


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.04 ng

RT: 9.27 min Scan# 624

Delta R.T. -0.09 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

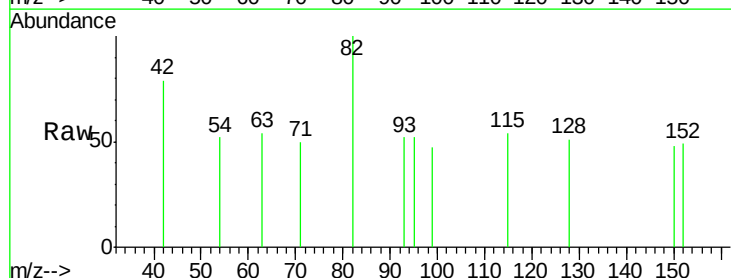
Tgt Ion: 82 Resp: 135

Ion Ratio Lower Upper

82 100

128 51.0 45.0 67.4

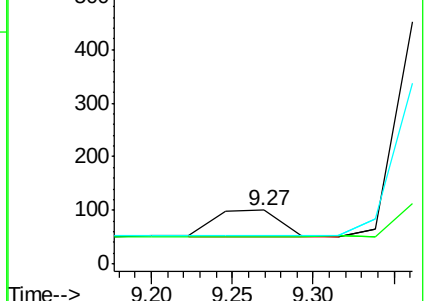
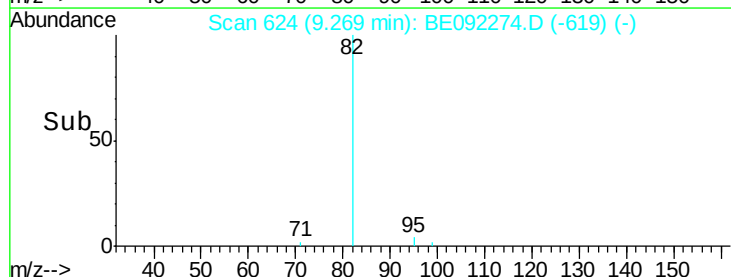
54 52.0 45.4 68.2

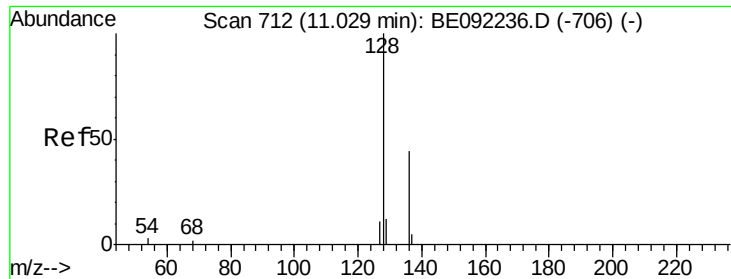


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.41 ng

RT: 11.01 min Scan# 711

Delta R.T. -0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

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ClientSampleId :

SSTDCCC0.4EC

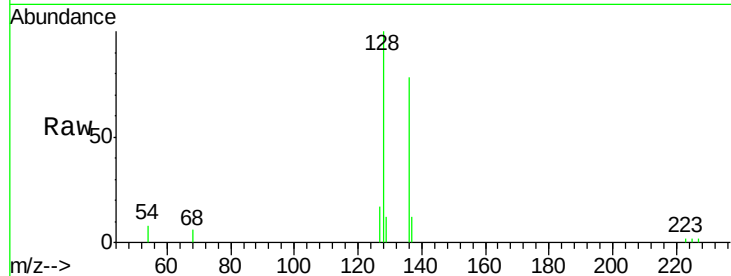
Tgt Ion:128 Resp: 4611

Ion Ratio Lower Upper

128 100

129 12.4 11.5 17.3

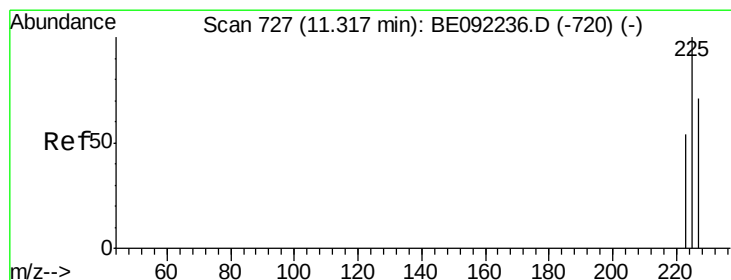
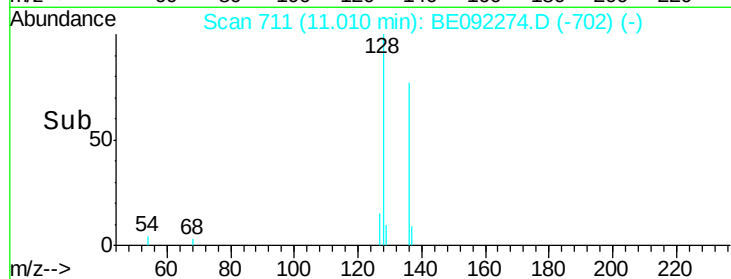
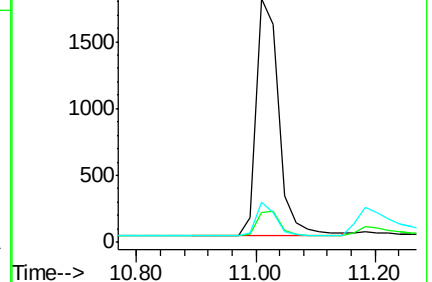
127 16.6 11.0 16.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.42 ng

RT: 11.32 min Scan# 727

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

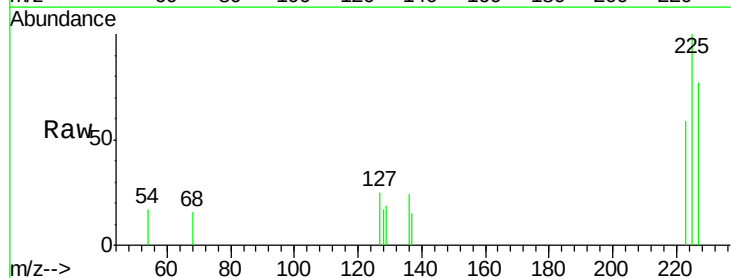
Tgt Ion:225 Resp: 687

Ion Ratio Lower Upper

225 100

223 62.6 52.2 78.4

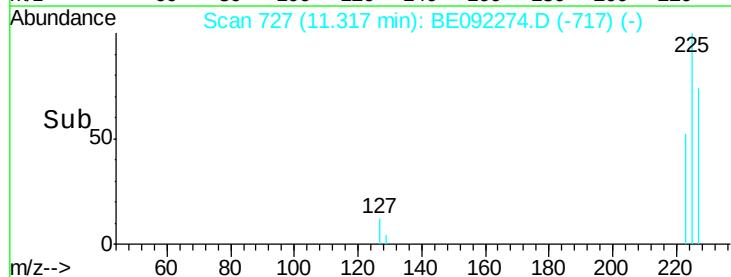
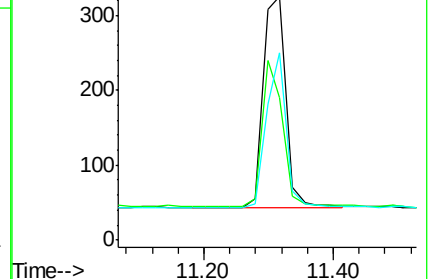
227 63.6 51.0 76.6

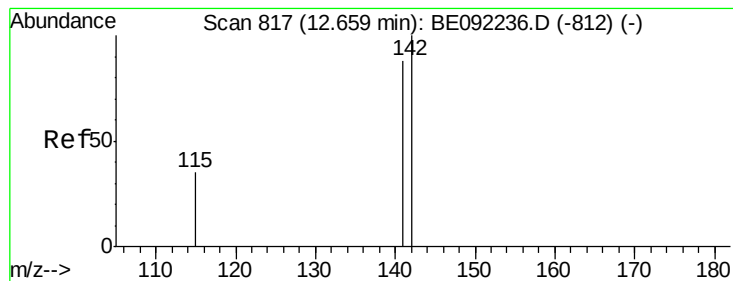


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene

Concen: 0.41 ng

RT: 12.66 min Scan# 817

Delta R.T. -0.00 min

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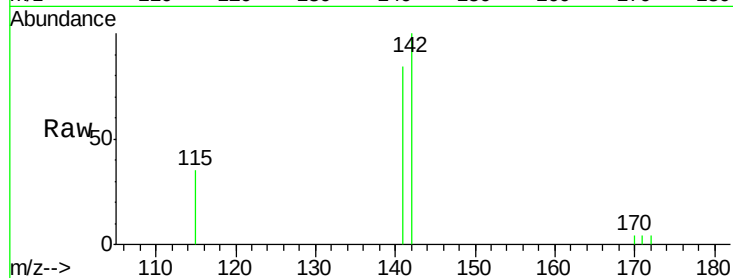
Tgt Ion:142 Resp: 2906

Ion Ratio Lower Upper

142 100

141 83.9 70.6 105.8

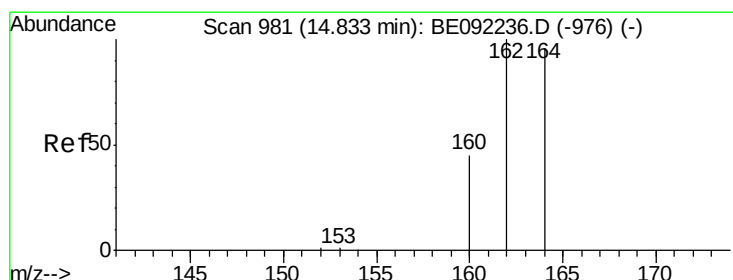
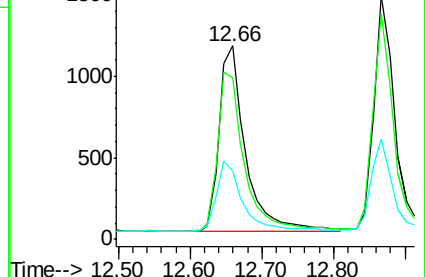
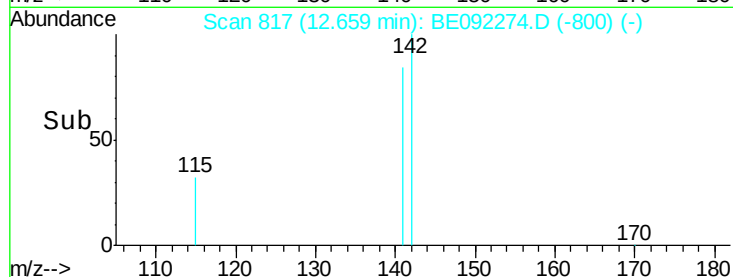
115 35.3 31.0 46.4



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



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.83 min Scan# 981

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

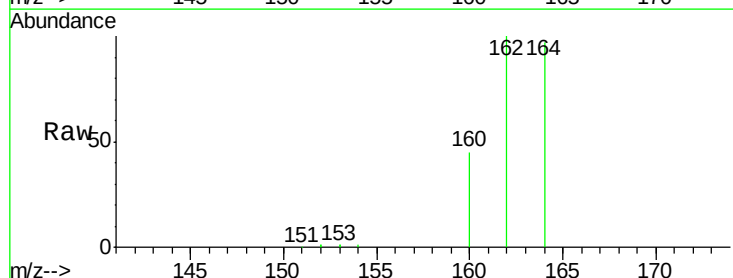
Tgt Ion:164 Resp: 28576

Ion Ratio Lower Upper

164 100

162 103.0 83.3 124.9

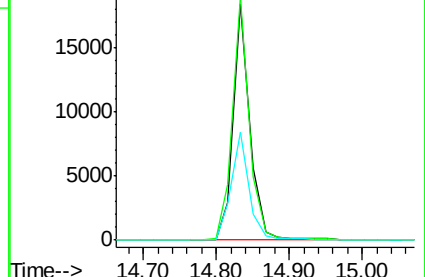
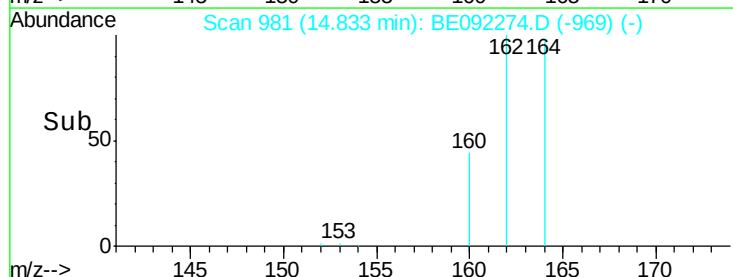
160 45.9 38.0 57.0



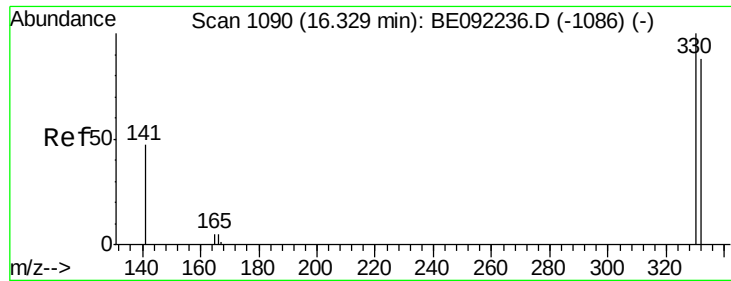
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



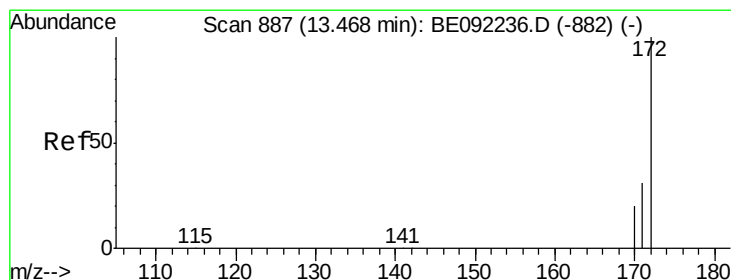
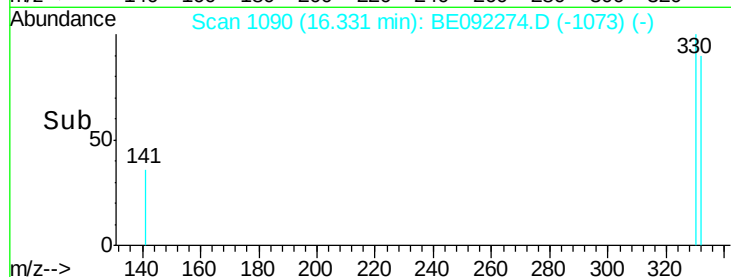
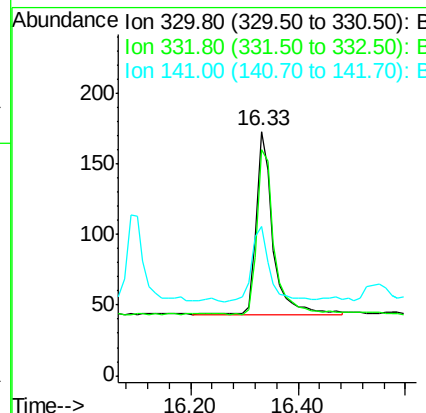
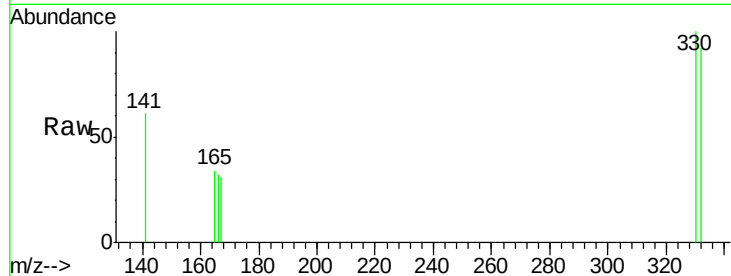




#13  
 2,4,6-Tribromophenol  
 Concen: 0.50 ng  
 RT: 16.33 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

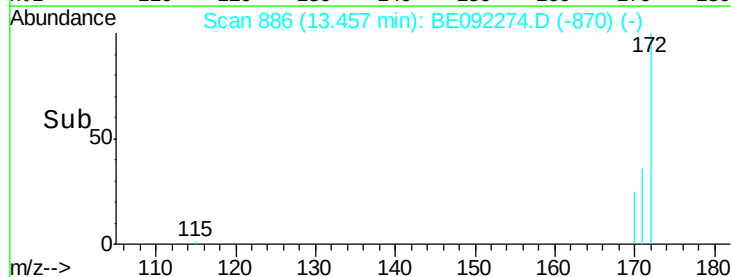
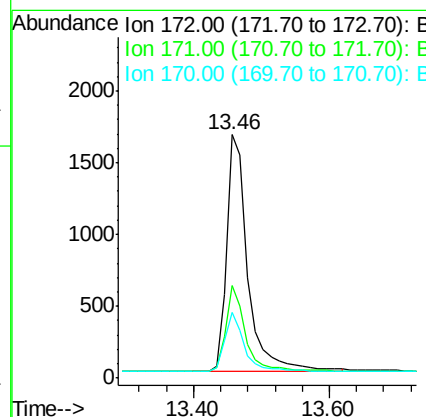
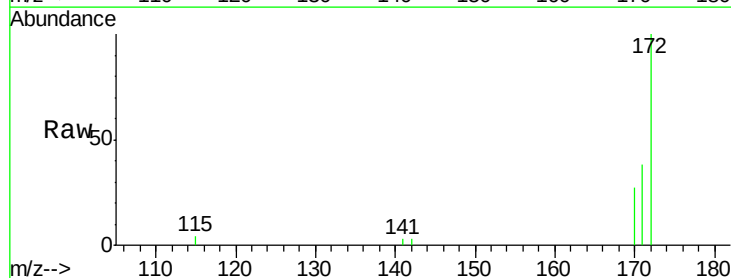
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

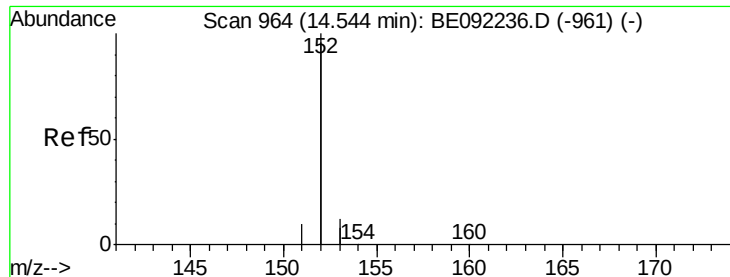
Tgt Ion: 330 Resp: 290  
 Ion Ratio Lower Upper  
 330 100  
 332 93.8 75.4 113.0  
 141 44.1 37.7 56.5



#14  
 2-Fluorobiphenyl  
 Concen: 0.41 ng  
 RT: 13.46 min Scan# 886  
 Delta R.T. -0.01 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

Tgt Ion: 172 Resp: 3648  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 26.8 40.2  
 170 27.1 17.8 26.6#





#15

Acenaphthylene

Concen: 0.40 ng

RT: 14.54 min Scan# 964

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

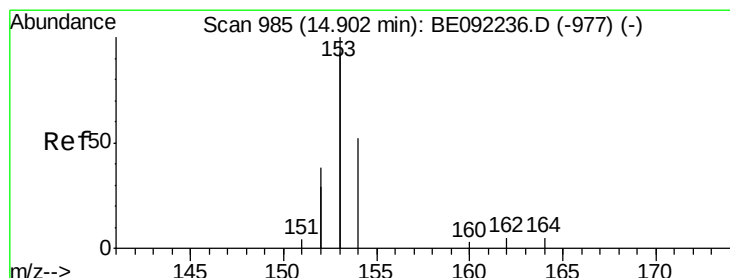
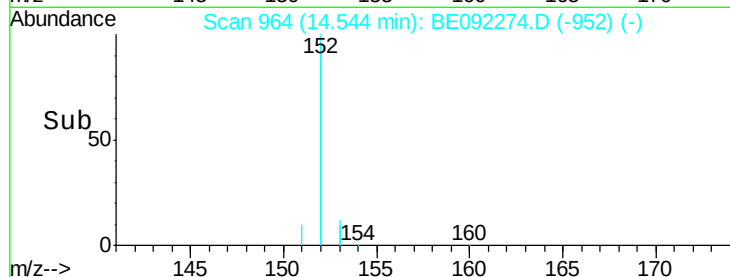
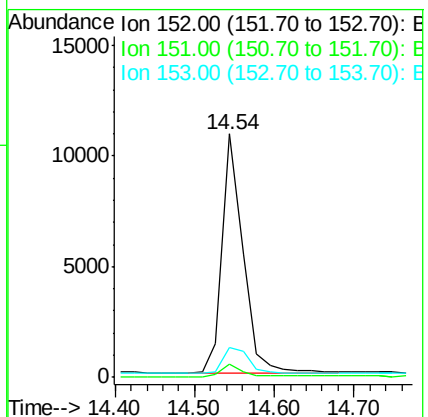
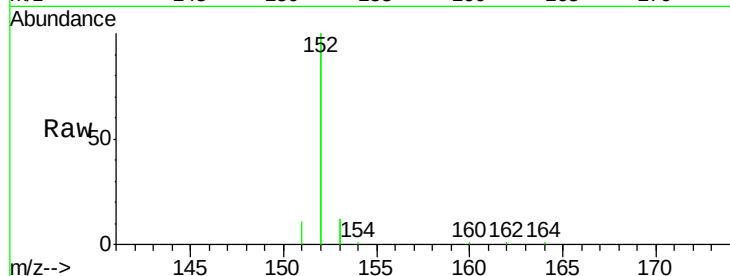
Tgt Ion:152 Resp: 19700

Ion Ratio Lower Upper

152 100

151 4.9 3.8 5.8

153 13.1 10.2 15.2



#16

Acenaphthene

Concen: 0.41 ng

RT: 14.90 min Scan# 985

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

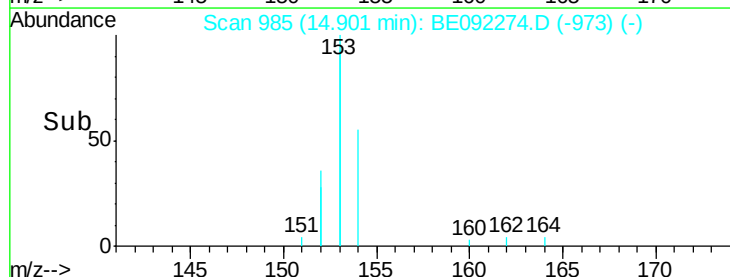
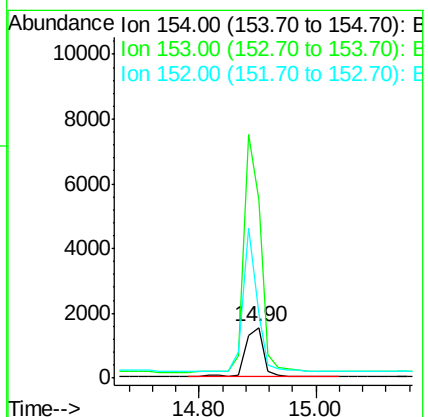
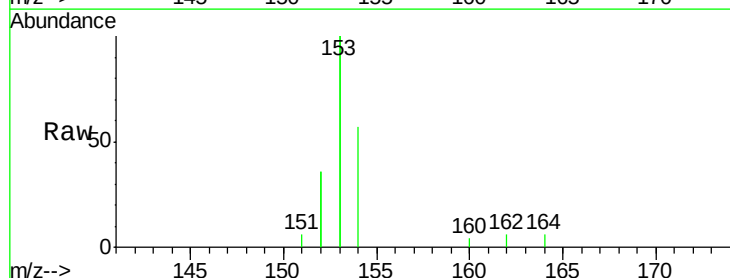
Tgt Ion:154 Resp: 3281

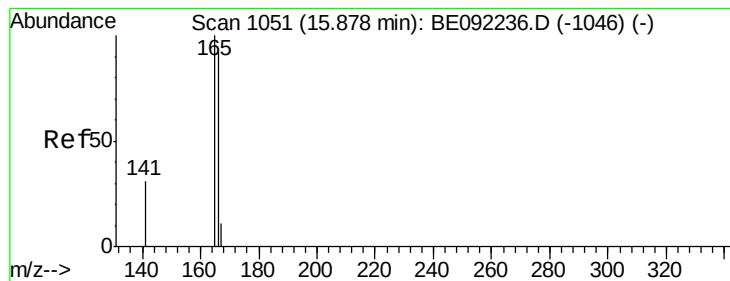
Ion Ratio Lower Upper

154 100

153 440.2 355.0 532.4

152 224.4 179.7 269.5





#17

Fluorene

Concen: 0.41 ng

RT: 15.88 min Scan# 1051

Delta R.T. 0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

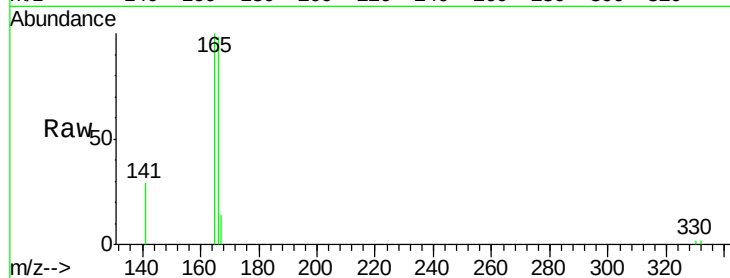
Tgt Ion:166 Resp: 3949

Ion Ratio Lower Upper

166 100

165 98.0 80.1 120.1

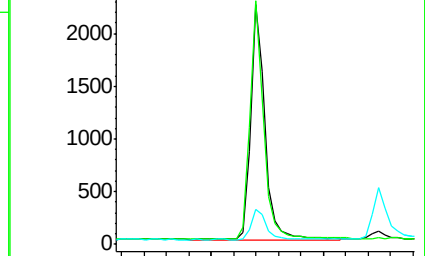
167 13.6 10.6 16.0



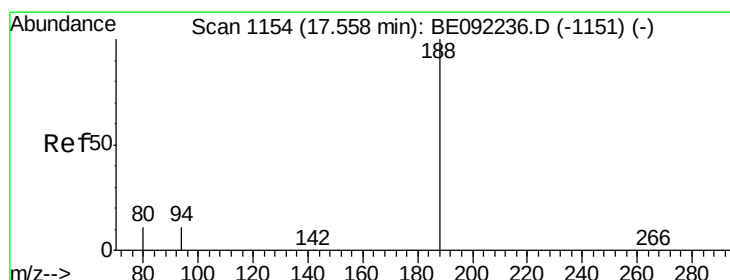
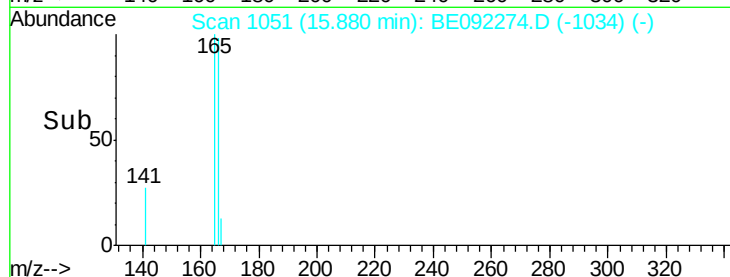
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.58 min Scan# 1154

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

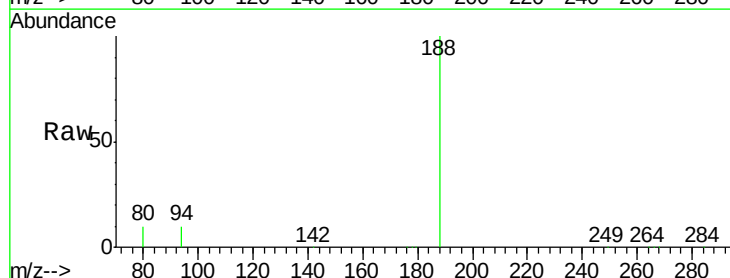
Tgt Ion:188 Resp: 72093

Ion Ratio Lower Upper

188 100

94 10.0 9.2 13.8

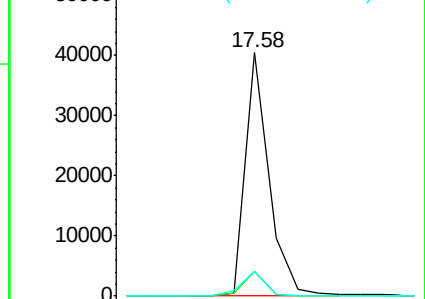
80 9.9 9.1 13.7



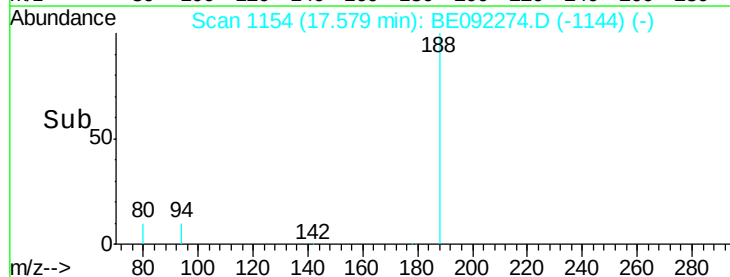
Abundance Ion 188.00 (187.70 to 188.70): E

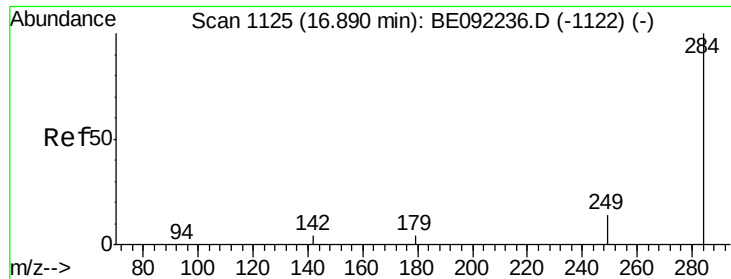
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->

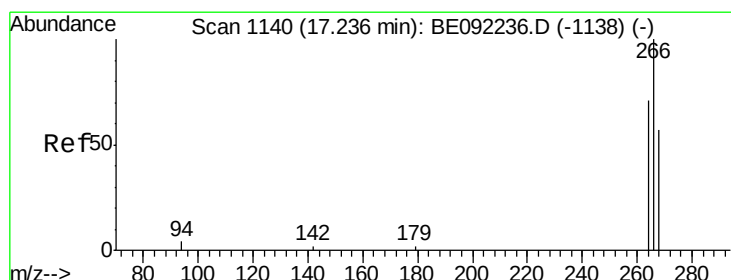
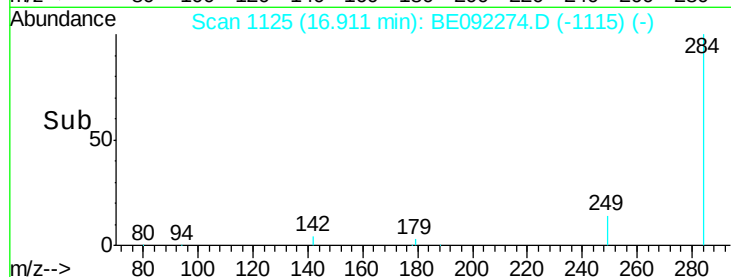
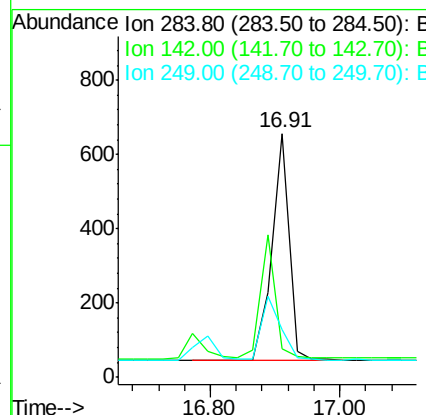
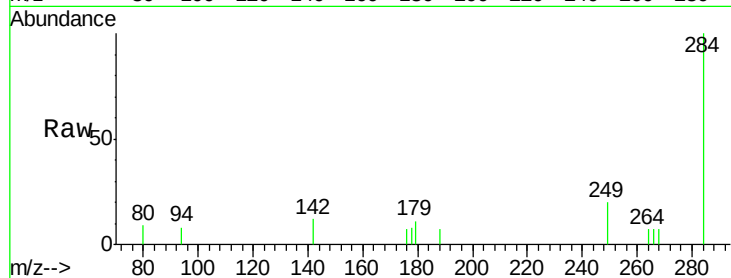




#19  
Hexachlorobenzene  
Concen: 0.41 ng  
RT: 16.91 min Scan# 1125  
Delta R.T. 0.02 min  
Lab File: BE092274.D  
Acq: 19 Aug 2016 17:37

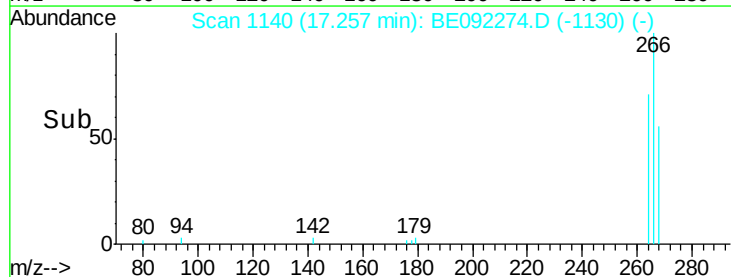
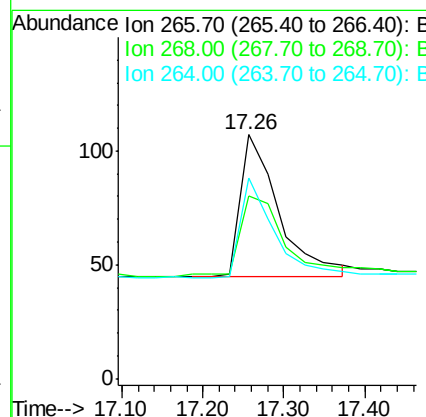
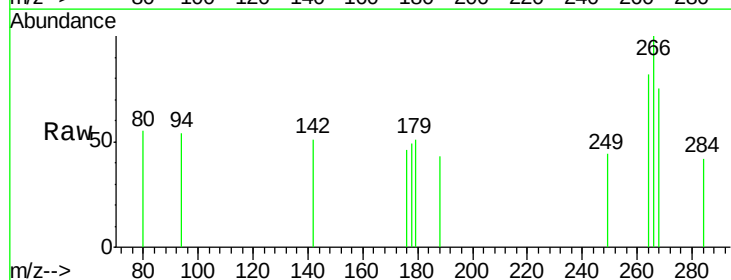
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

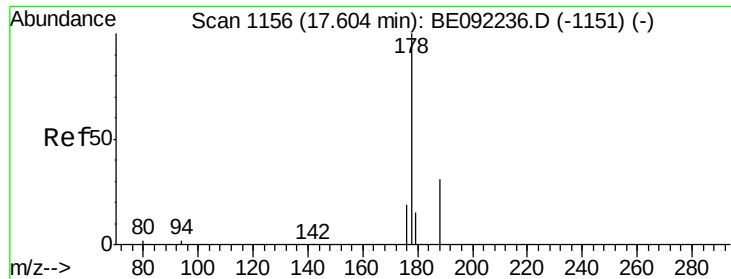
Tgt Ion: 284 Resp: 1161  
Ion Ratio Lower Upper  
284 100  
142 0.0 0.0 0.0  
249 0.0 0.0 0.0



#20  
Pentachlorophenol  
Concen: 0.38 ng  
RT: 17.26 min Scan# 1140  
Delta R.T. 0.02 min  
Lab File: BE092274.D  
Acq: 19 Aug 2016 17:37

Tgt Ion: 266 Resp: 202  
Ion Ratio Lower Upper  
266 100  
268 74.8 62.3 93.5  
264 82.2 67.4 101.0





#21

Phenanthrene

Concen: 0.40 ng

RT: 17.63 min Scan# 1156

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

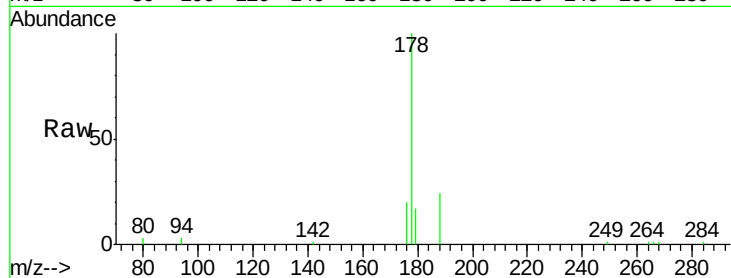
Tgt Ion:178 Resp: 7518

Ion Ratio Lower Upper

178 100

176 19.2 15.1 22.7

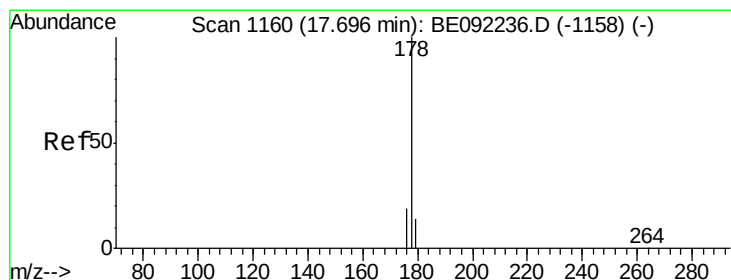
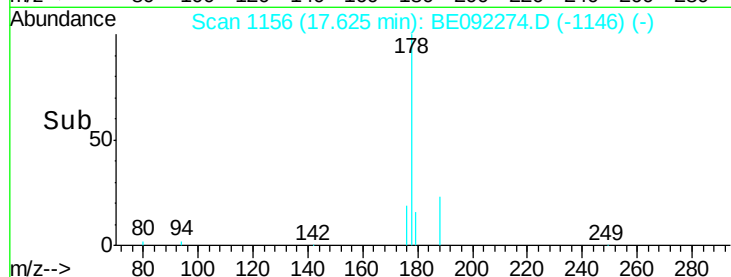
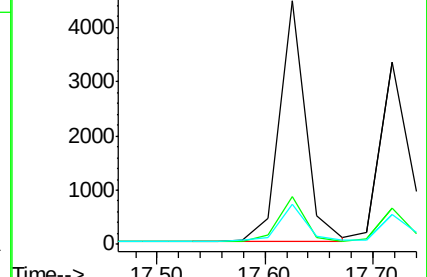
179 16.3 12.9 19.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#22

Anthracene

Concen: 0.38 ng

RT: 17.72 min Scan# 1160

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

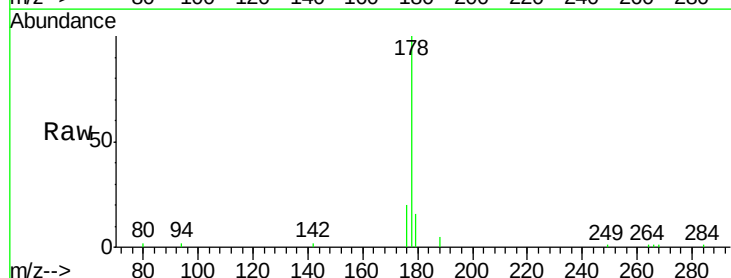
Tgt Ion:178 Resp: 6367

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

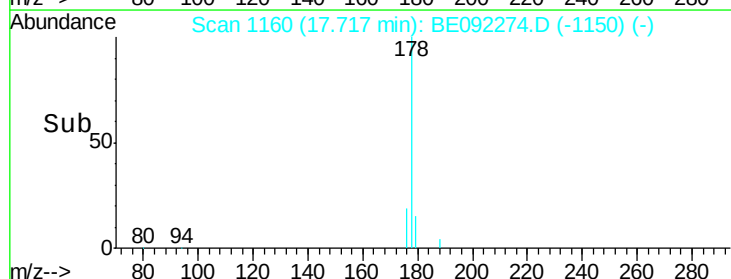
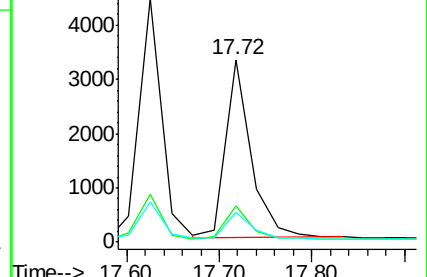
179 14.9 12.0 18.0

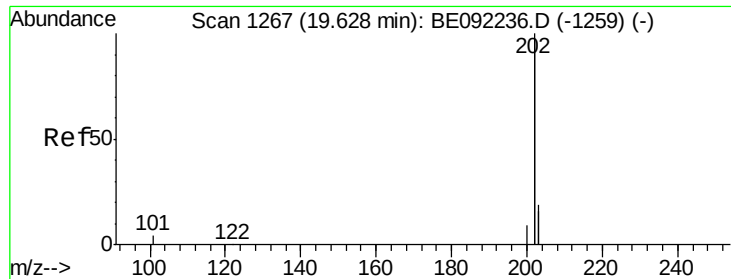


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.38 ng

RT: 19.63 min Scan# 1267

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

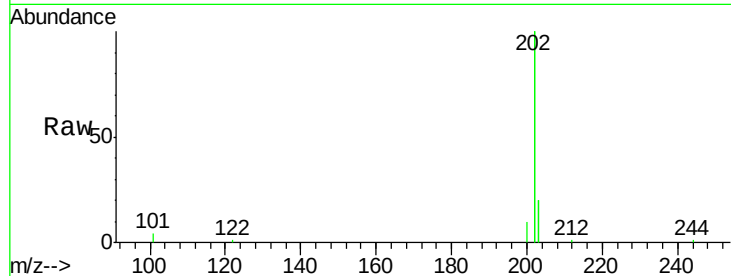
Tgt Ion:202 Resp: 28062

Ion Ratio Lower Upper

202 100

101 2.8 2.2 3.4

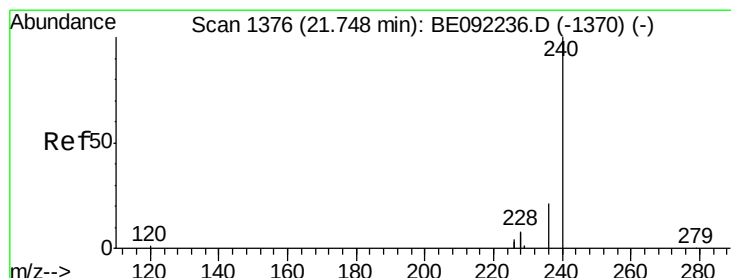
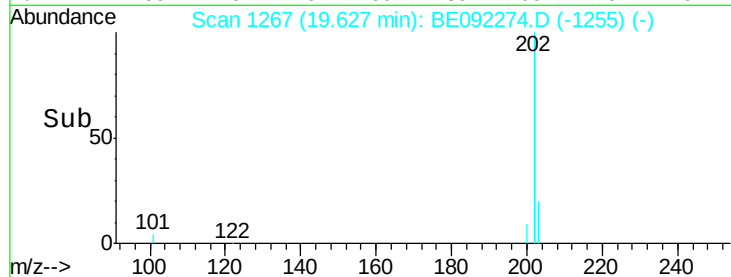
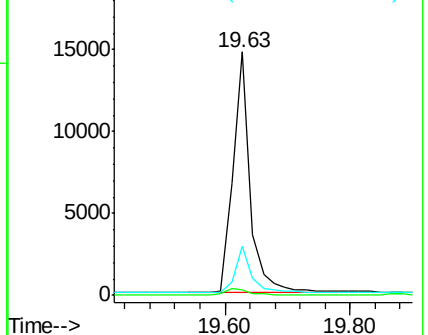
203 17.4 13.7 20.5



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.77 min Scan# 1376

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

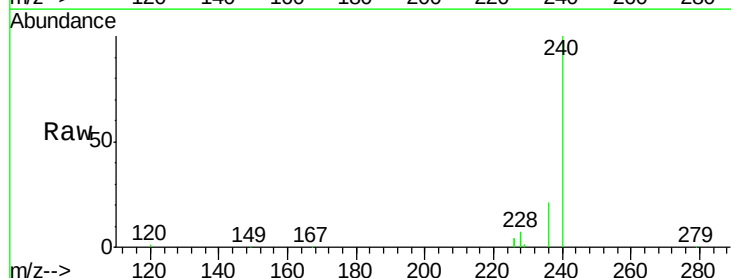
Tgt Ion:240 Resp: 64216

Ion Ratio Lower Upper

240 100

120 1.3 1.2 1.8

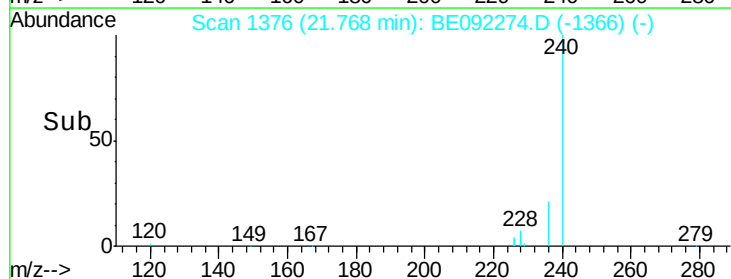
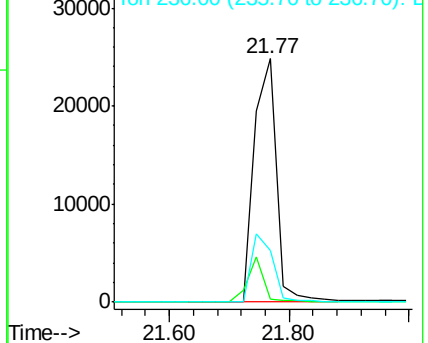
236 21.0 17.1 25.7

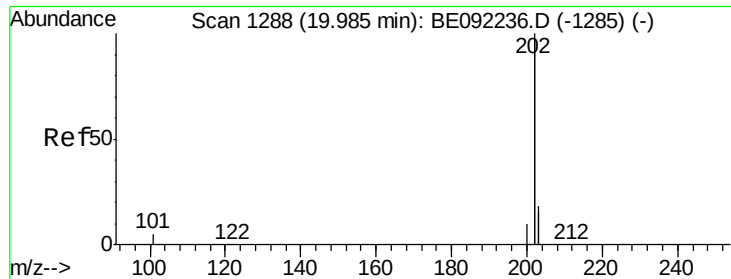


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

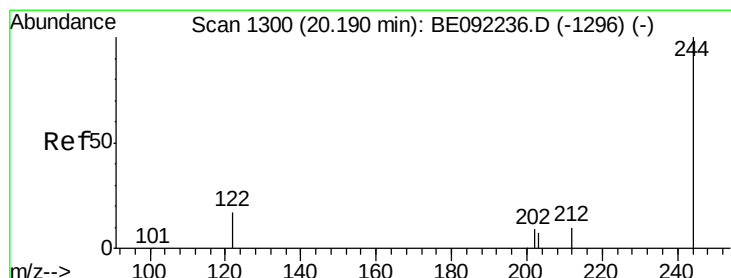
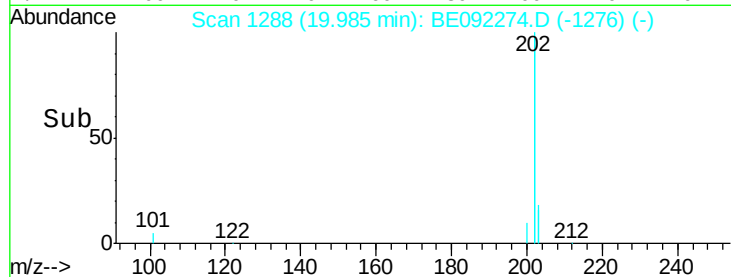
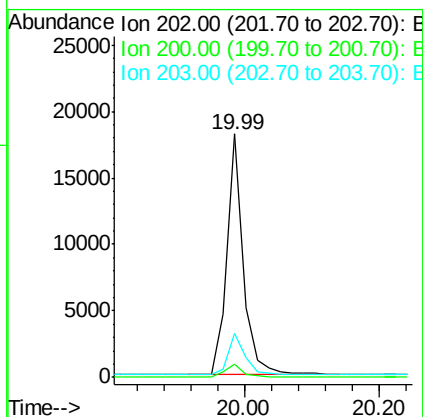
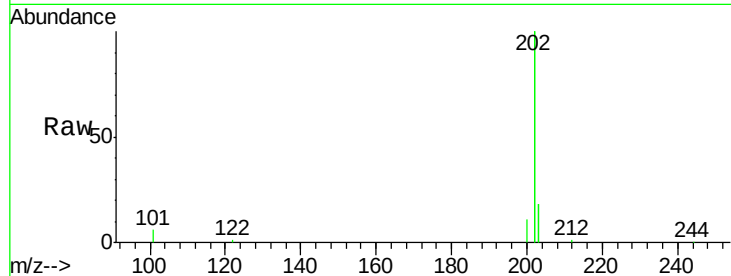




#25  
 Pyrene  
 Concen: 0.40 ng  
 RT: 19.99 min Scan# 1288  
 Delta R.T. -0.00 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

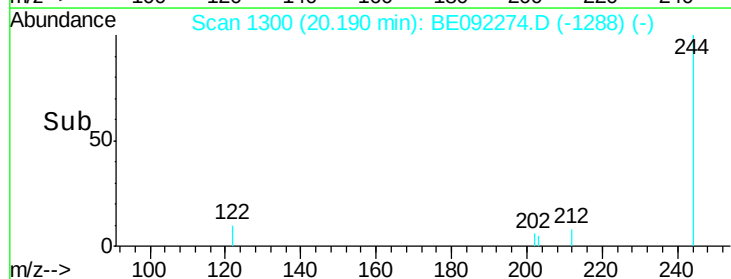
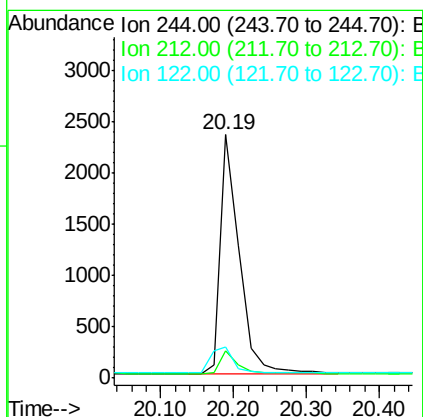
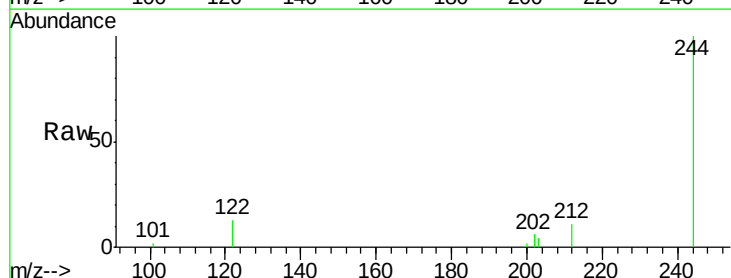
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

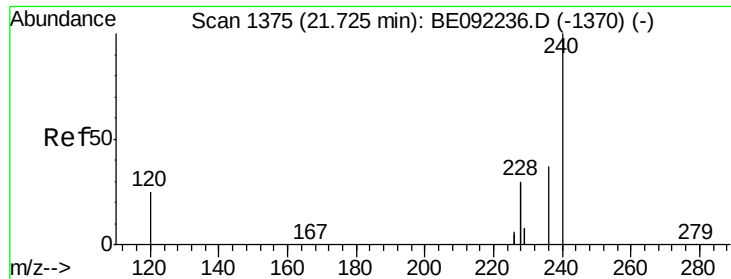
Tgt Ion: 202 Resp: 30367  
 Ion Ratio Lower Upper  
 202 100  
 200 5.4 4.2 6.4  
 203 17.5 14.0 21.0



#26  
 Terphenyl-d14  
 Concen: 0.39 ng  
 RT: 20.19 min Scan# 1300  
 Delta R.T. -0.00 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

Tgt Ion: 244 Resp: 4237  
 Ion Ratio Lower Upper  
 244 100  
 212 11.2 10.2 15.2  
 122 12.7 15.9 23.9#





#27

Benzo(a)anthracene

Concen: 0.39 ng

RT: 21.75 min Scan# 1375

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

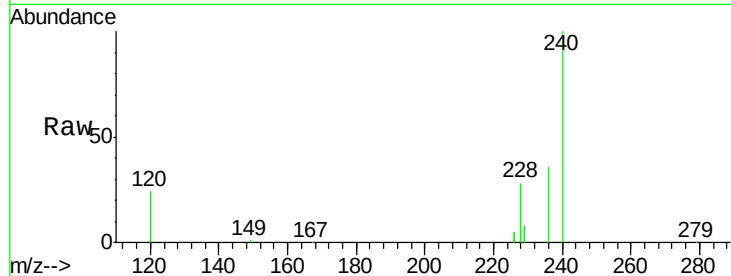
Tgt Ion:228 Resp: 29963

Ion Ratio Lower Upper

228 100

226 19.1 15.9 23.9

229 27.3 22.4 33.6

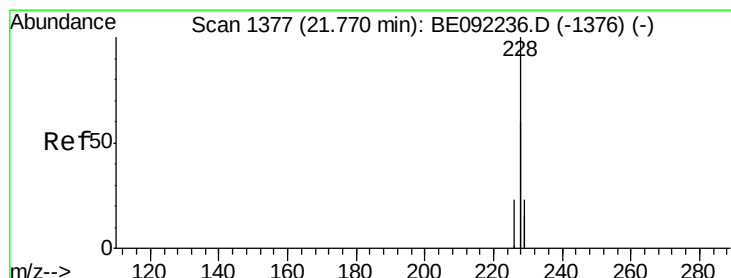
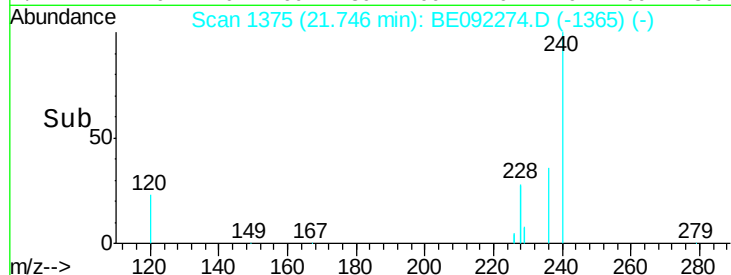
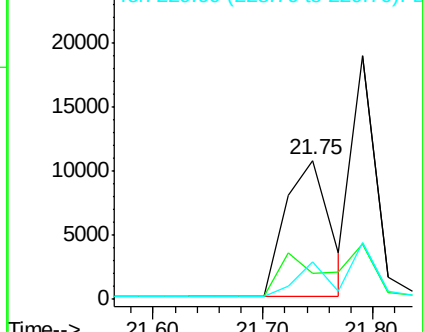


Abundance

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



#28

Chrysene

Concen: 0.42 ng

RT: 21.75 min Scan# 1375

Delta R.T. -0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

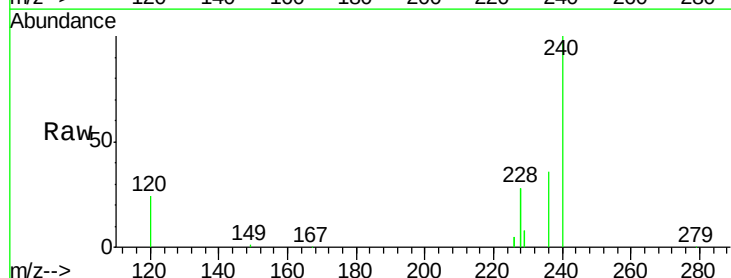
Tgt Ion:228 Resp: 29961

Ion Ratio Lower Upper

228 100

226 19.1 18.3 27.5

229 27.3 18.6 27.8

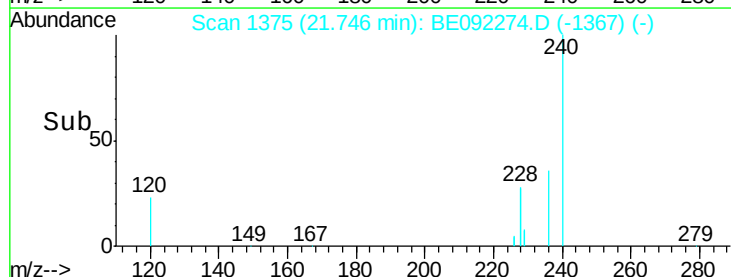
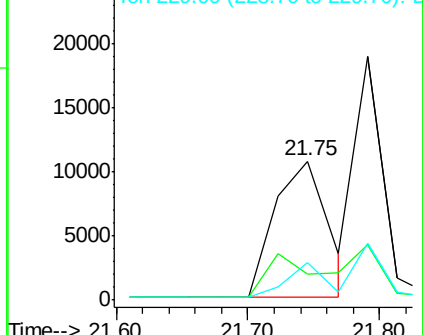


Abundance

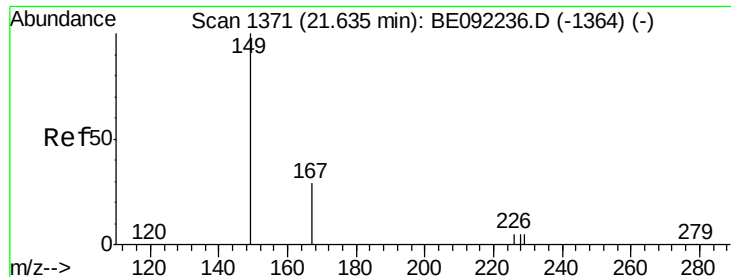
Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#29

Bis(2-ethylhexyl)phthalate

Concen: 0.45 ng

RT: 21.66 min Scan# 1371

Delta R.T. 0.02 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

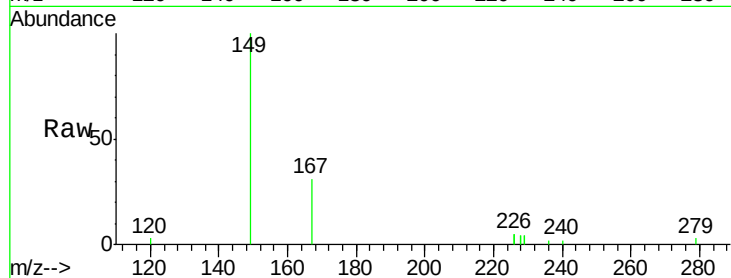
Tgt Ion:149 Resp: 2938

Ion Ratio Lower Upper

149 100

167 28.7 22.1 33.1

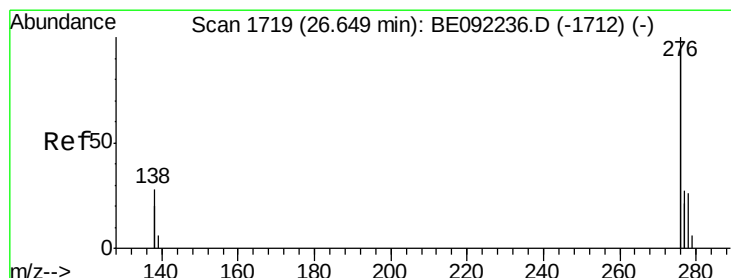
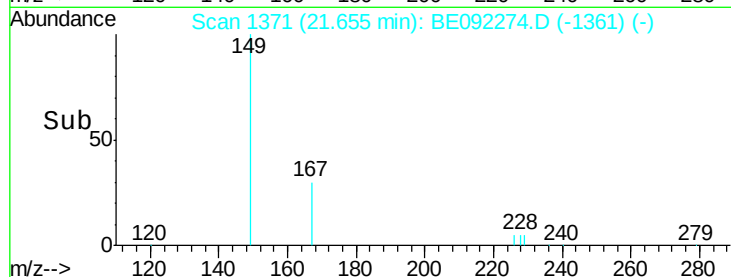
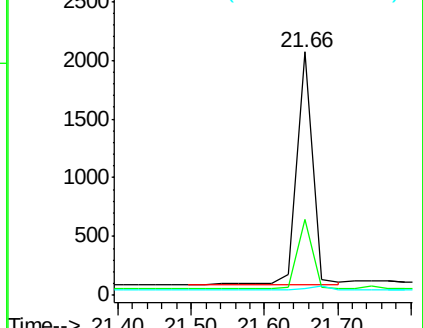
279 0.0 0.0 0.0



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: 0.37 ng

RT: 26.65 min Scan# 1719

Delta R.T. 0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

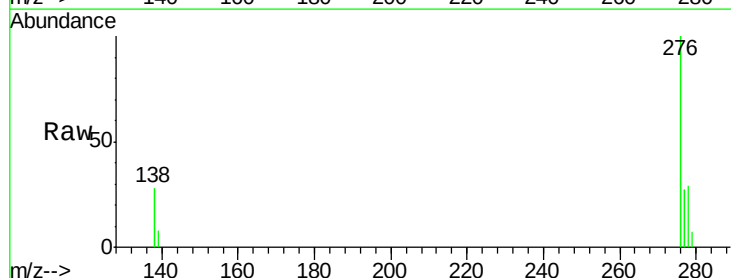
Tgt Ion:276 Resp: 28051

Ion Ratio Lower Upper

276 100

138 26.5 21.3 31.9

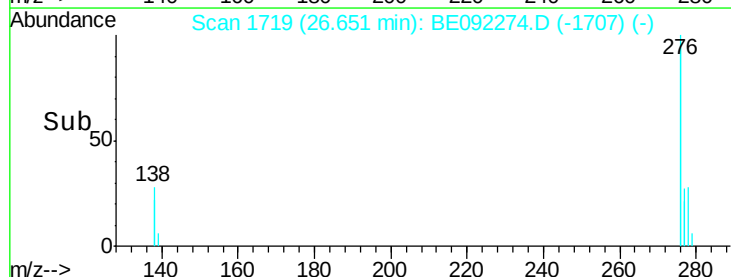
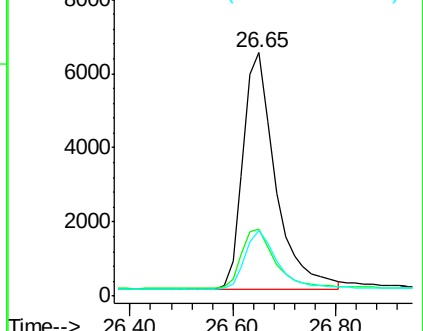
277 24.5 19.7 29.5

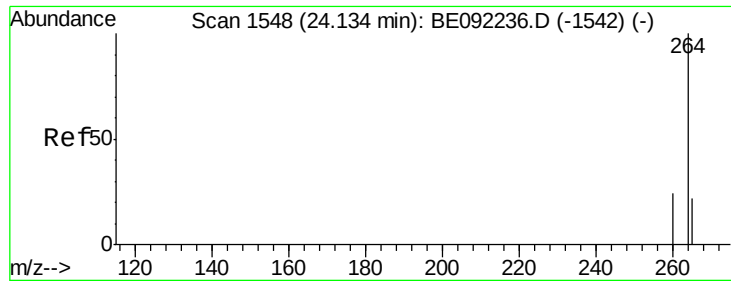


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

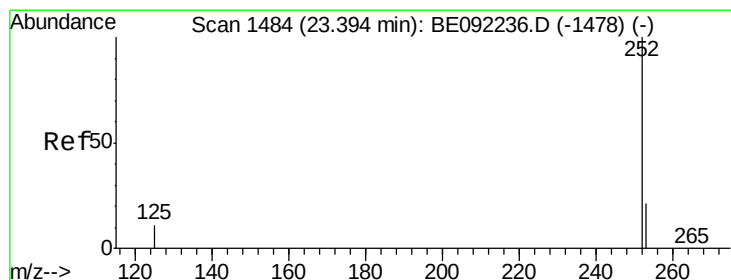
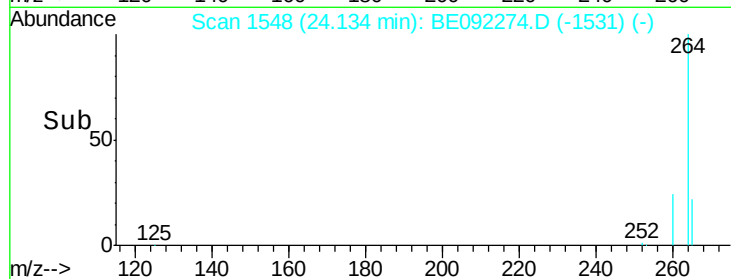
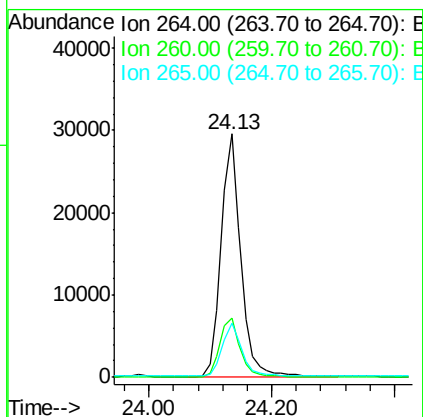
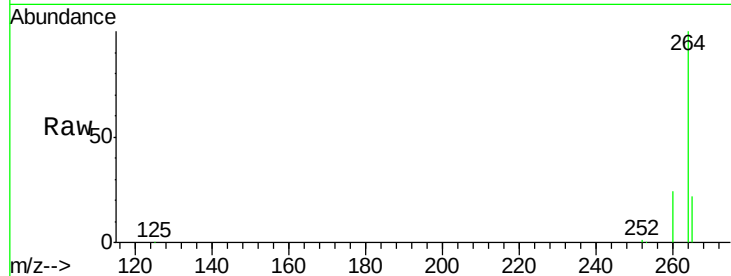




#31  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 24.13 min Scan# 1548  
 Delta R.T. -0.00 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

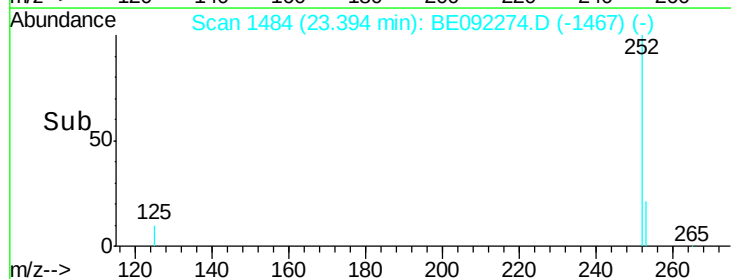
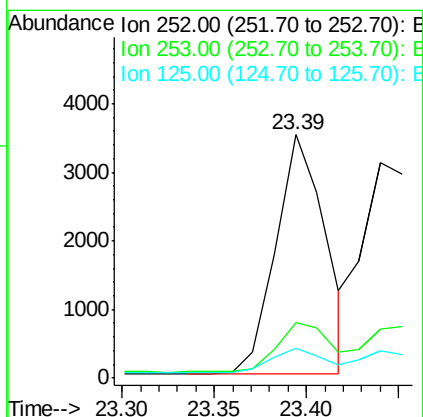
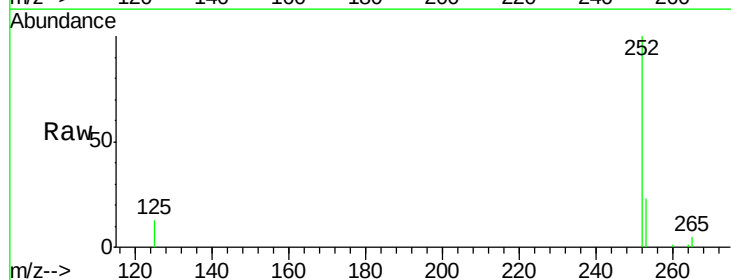
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4EC

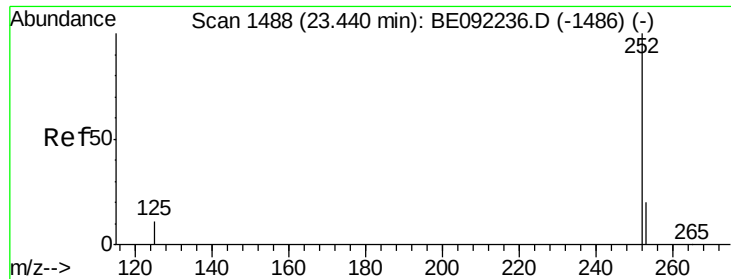
Tgt Ion: 264 Resp: 65243  
 Ion Ratio Lower Upper  
 264 100  
 260 24.4 19.5 29.3  
 265 22.3 18.2 27.4



#32  
**Benzo(b)fluoranthene**  
 Concen: 0.38 ng  
 RT: 23.39 min Scan# 1484  
 Delta R.T. -0.00 min  
 Lab File: BE092274.D  
 Acq: 19 Aug 2016 17:37

Tgt Ion: 252 Resp: 6530  
 Ion Ratio Lower Upper  
 252 100  
 253 23.0 19.0 28.4  
 125 12.5 10.3 15.5





#33

Benzo(k)fluoranthene

Concen: 0.41 ng

RT: 23.44 min Scan# 1488

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4EC

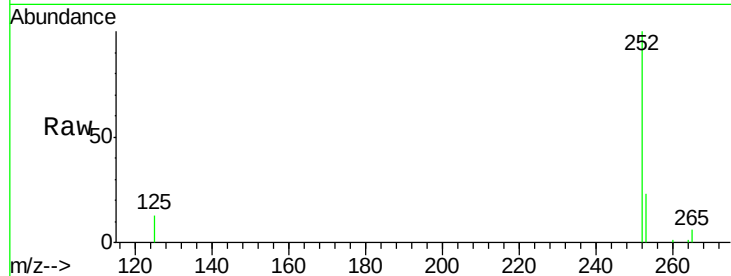
Tgt Ion:252 Resp: 7118

Ion Ratio Lower Upper

252 100

253 22.9 19.0 28.6

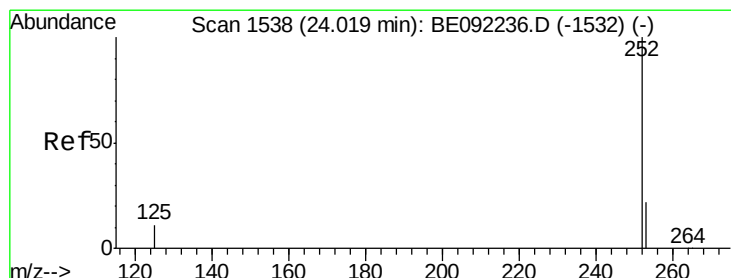
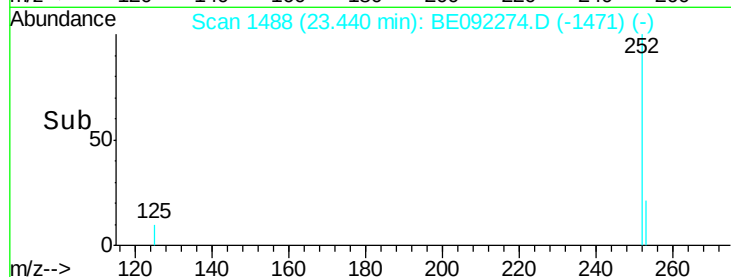
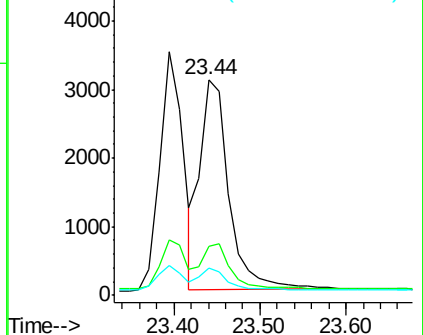
125 12.6 10.6 15.8



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



#34

Benzo(a)pyrene

Concen: 0.38 ng

RT: 24.02 min Scan# 1538

Delta R.T. -0.00 min

Lab File: BE092274.D

Acq: 19 Aug 2016 17:37

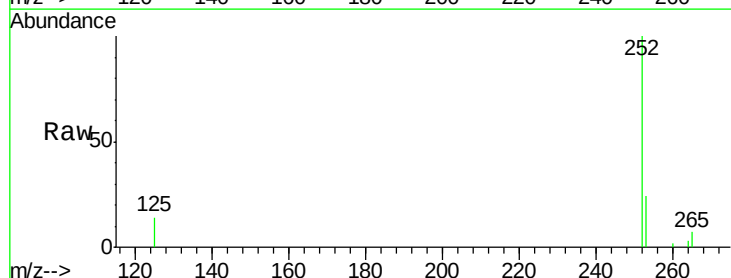
Tgt Ion:252 Resp: 6140

Ion Ratio Lower Upper

252 100

253 24.4 20.3 30.5

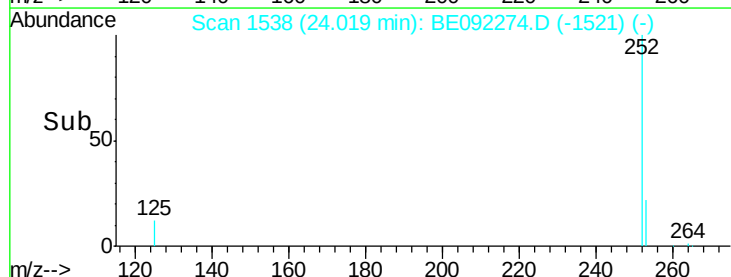
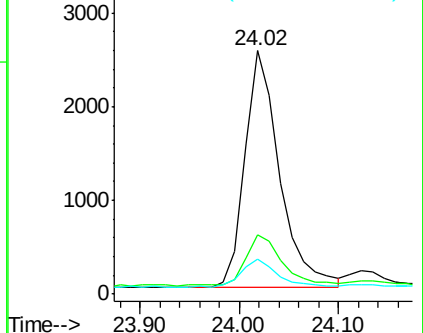
125 14.4 11.8 17.6

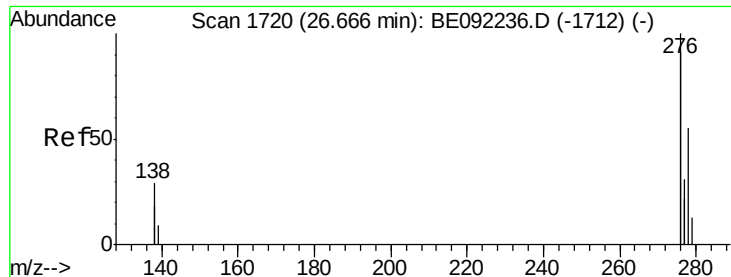


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



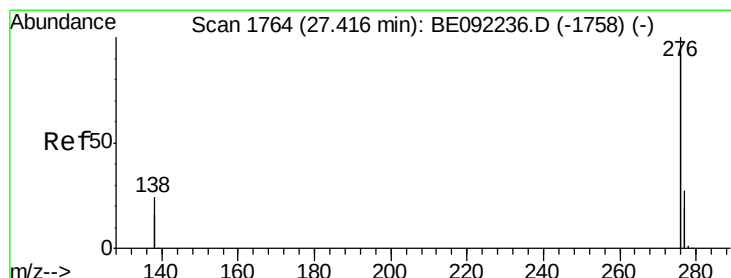
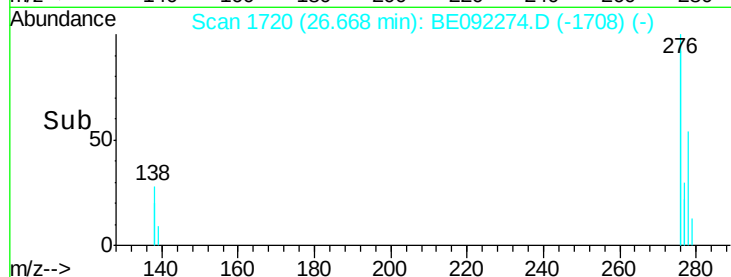
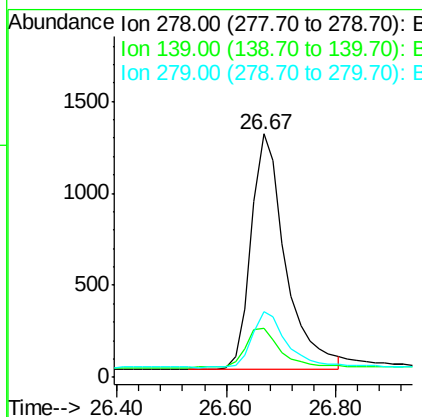
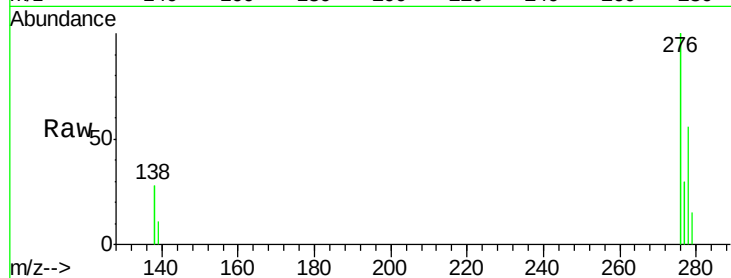


#35  
Dibenzo(a,h)anthracene  
Concen: 0.37 ng  
RT: 26.67 min Scan# 1720  
Delta R.T. 0.00 min  
Lab File: BE092274.D  
Acq: 19 Aug 2016 17:37

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion: 278 Resp: 5545  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 20.0  | 16.2  | 24.2  |
| 279 | 27.0  | 21.4  | 32.2  |



#36  
Benzo(g,h,i)perylene  
Concen: 0.39 ng  
RT: 27.42 min Scan# 1764  
Delta R.T. 0.00 min  
Lab File: BE092274.D  
Acq: 19 Aug 2016 17:37

Tgt Ion: 276 Resp: 24974  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 26.0  | 21.4  | 32.2  |
| 138 | 24.3  | 19.4  | 29.2  |

