

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121619\  
 Data File : BE100935.D  
 Acq On : 17 Dec 2019 1:36  
 Operator : JU  
 Sample : PB125440BS  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Dec 17 06:20:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE120419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 13 10:42:38 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 4573     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 19046    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.38 | 164  | 9555     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.12 | 188  | 22684    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.29 | 240  | 23322    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.74 | 264  | 23152    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.36  | 112  | 5117     | 0.47 | ng    | 0.00     |
| 5) Phenol-d6                | 6.93  | 99   | 7993     | 0.49 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.90  | 82   | 5425     | 0.60 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.12 | 152  | 12409    | 0.45 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 15.86 | 330  | 654      | 0.62 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.02 | 172  | 16198    | 0.43 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.15 | 212  | 105453   | 0.39 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.75 | 244  | 21639    | 0.39 | ng    | 0.00     |

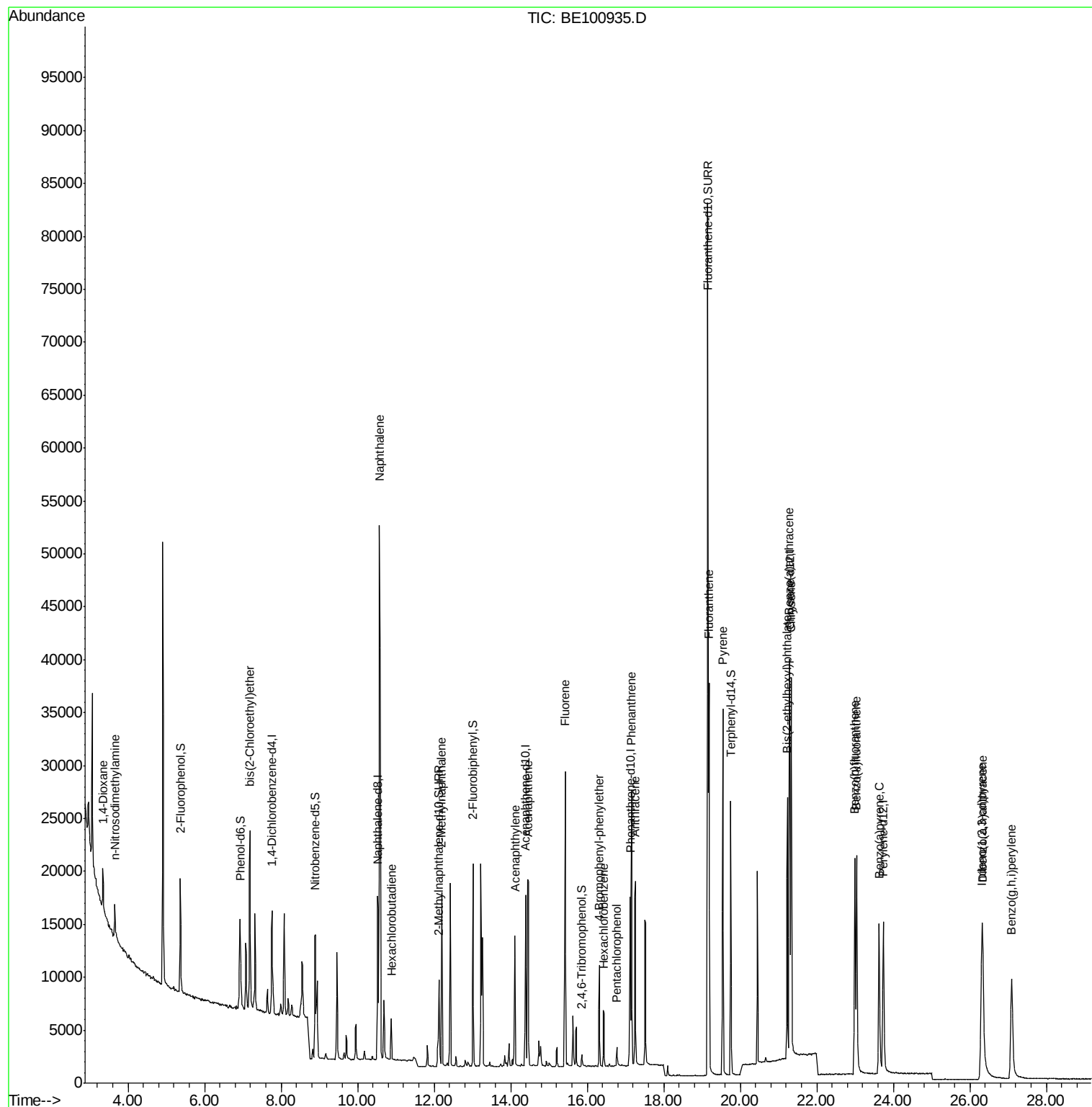
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88   | 2530     | 0.303 | ng    | # 4    |
| 3) n-Nitrosodimethylamine      | 3.65  | 42   | 2952     | 0.435 | ng    | # 95   |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93   | 6553     | 0.414 | ng    | 98     |
| 9) Naphthalene                 | 10.58 | 128  | 83651    | 0.413 | ng    | 100    |
| 10) Hexachlorobutadiene        | 10.89 | 225  | 2988     | 0.379 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 12.19 | 142  | 12664    | 0.401 | ng    | 93     |
| 16) Acenaphthylene             | 14.11 | 152  | 16145    | 0.408 | ng    | 99     |
| 17) Acenaphthene               | 14.46 | 154  | 10895    | 0.400 | ng    | 99     |
| 18) Fluorene                   | 15.42 | 166  | 14011    | 0.399 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.32 | 248  | 4027     | 0.362 | ng    | 88     |
| 21) Hexachlorobenzene          | 16.44 | 284  | 4510     | 0.373 | ng    | 99     |
| 22) Pentachlorophenol          | 16.77 | 266  | 982      | 1.174 | ng    | 97     |
| 23) Phenanthrene               | 17.16 | 178  | 26950    | 0.392 | ng    | 99     |
| 24) Anthracene                 | 17.26 | 178  | 21964    | 0.382 | ng    | 99     |
| 26) Fluoranthene               | 19.18 | 202  | 31102    | 0.379 | ng    | 99     |
| 28) Pyrene                     | 19.54 | 202  | 30882    | 0.408 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.28 | 228  | 28135    | 0.409 | ng    | 100    |
| 31) Chrysene                   | 21.33 | 228  | 34264    | 0.424 | ng    | 100    |
| 32) Bis(2-ethylhexyl)phthalate | 21.23 | 149  | 26325    | 0.544 | ng    | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.31 | 276  | 27621    | 0.393 | ng    | 99     |
| 35) Benzo(b)fluoranthene       | 22.99 | 252  | 28461    | 0.449 | ng    | 99     |
| 36) Benzo(k)fluoranthene       | 23.04 | 252  | 31816    | 0.448 | ng    | 98     |
| 37) Benzo(a)pyrene             | 23.63 | 252  | 24908    | 0.454 | ng    | 99     |
| 38) Dibenzo(a,h)anthracene     | 26.34 | 278  | 22610    | 0.414 | ng    | 97     |
| 39) Benzo(g,h,i)perylene       | 27.09 | 276  | 26139    | 0.448 | ng    | 100    |

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

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Quant Time: Dec 17 06:20:45 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 13 10:42:38 2019  
Response via : Initial Calibration



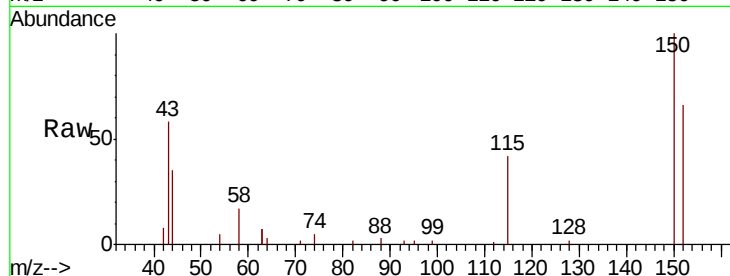


#1

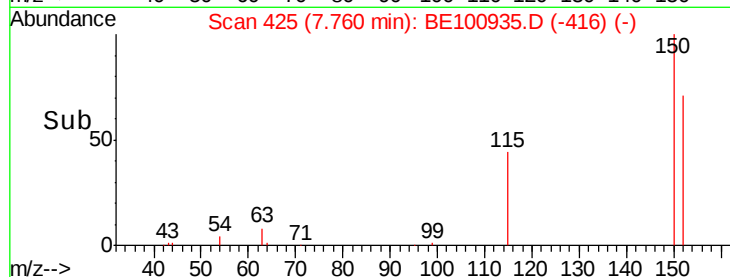
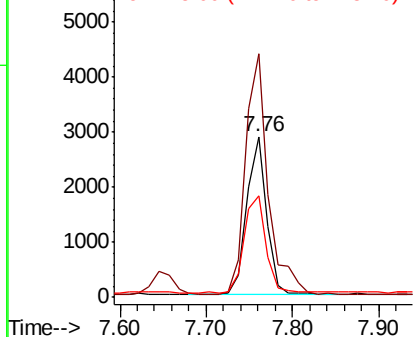
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.76 min Scan# 425  
 Delta R.T. 0.00 min  
 Lab File: BE100935.D  
 Acq: 17 Dec 2019 1:36

Instrument :  
 BNA\_E  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.8 | 125.5 | 188.3 |
| 115     | 63.2  | 55.7  | 83.5  |



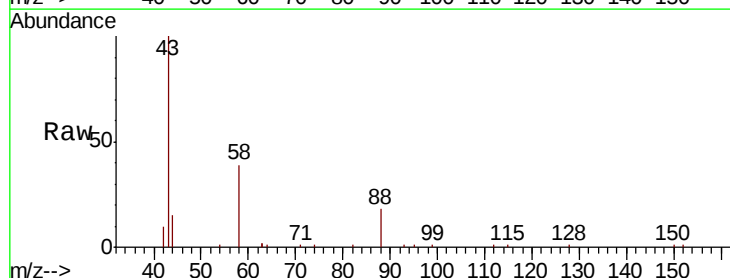
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



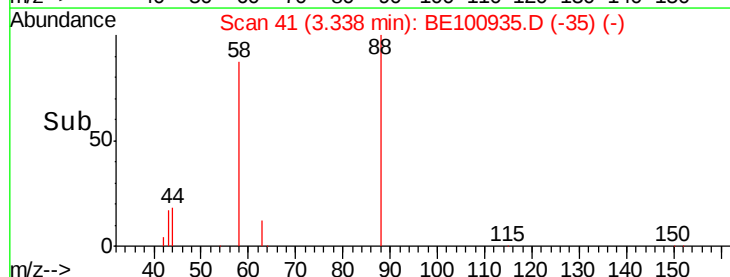
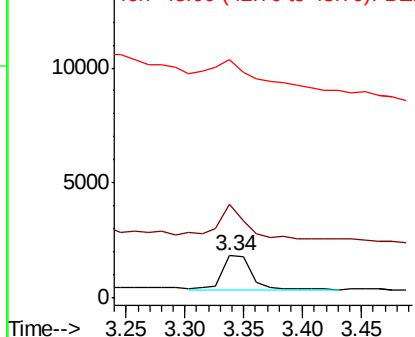
#2

1,4-Dioxane  
 Concen: 0.303 ng  
 RT: 3.34 min Scan# 41  
 Delta R.T. 0.00 min  
 Lab File: BE100935.D  
 Acq: 17 Dec 2019 1:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 88.1  | 52.3  | 78.5# |
| 43      | 161.2 | 23.5  | 35.3# |



Abundance Ion 88.00 (87.70 to 88.70): BE1  
 Ion 58.00 (57.70 to 58.70): BE1  
 Ion 43.00 (42.70 to 43.70): BE1





#3

n-Nitrosodimethylamine

Concen: 0.435 ng

RT: 3.65 min Scan# 68

Delta R.T. 0.00 min

Lab File: BE100935.D

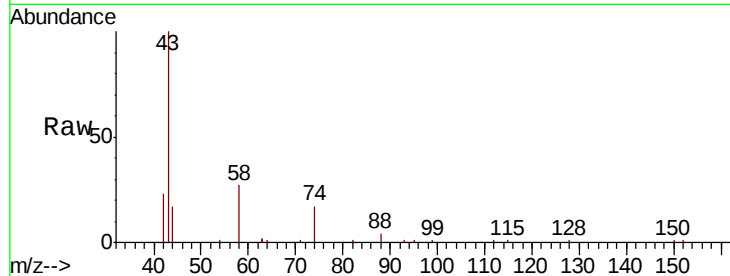
Acq: 17 Dec 2019 1:36

Instrument :

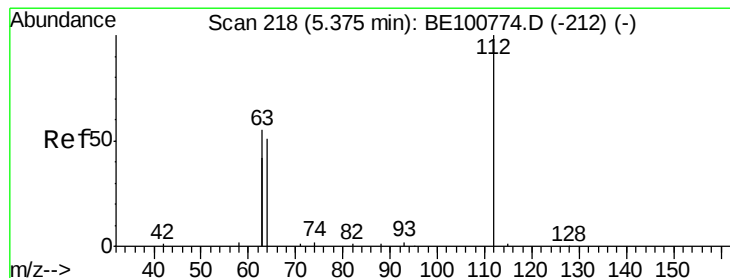
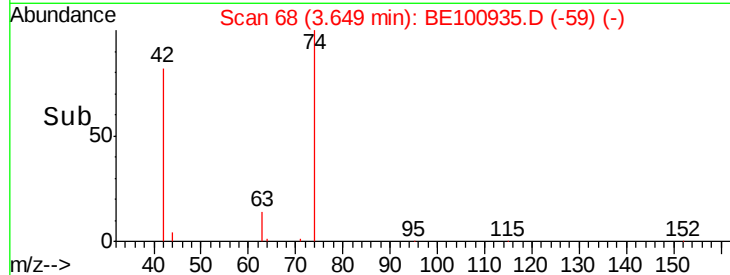
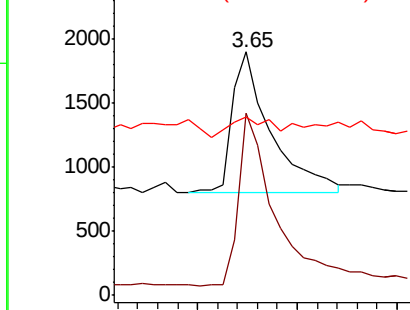
BNA\_E

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 2952  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 117.7 | 90.3  | 135.5 |
| 44       | 14.0  | 9.0   | 13.4# |



Abundance Ion 42.00 (41.70 to 42.70): BE1  
Ion 74.00 (73.70 to 74.70): BE1  
Ion 44.00 (43.70 to 44.70): BE1



#4

2-Fluorophenol

Concen: 0.472 ng

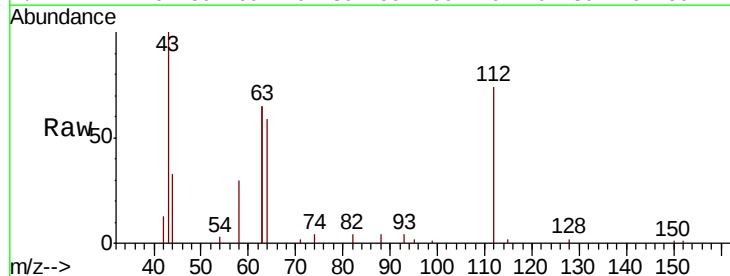
RT: 5.36 min Scan# 217

Delta R.T. -0.01 min

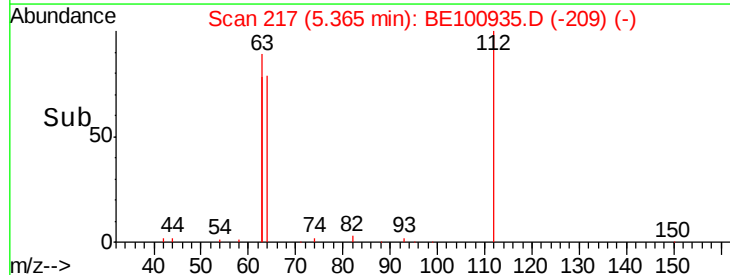
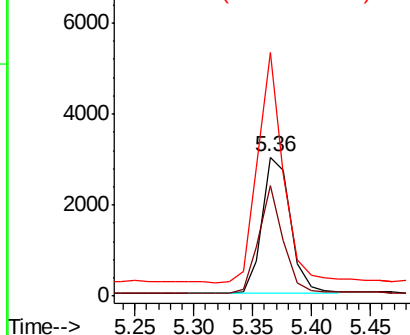
Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 5117  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 68.3  | 54.5  | 81.7  |
| 63       | 149.5 | 116.1 | 174.1 |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1





#5

Phenol-d6

Concen: 0.488 ng

RT: 6.93 min Scan# 353

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

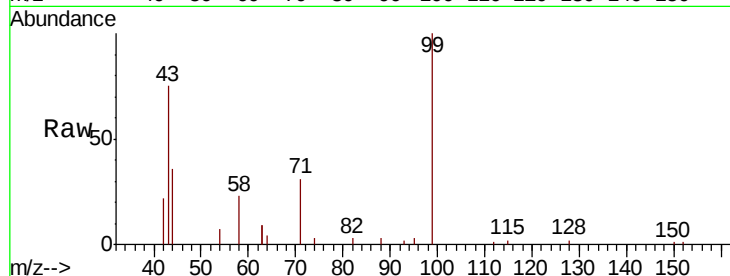
Tot Ion: 99 Resp: 7993

Ion Ratio Lower Upper

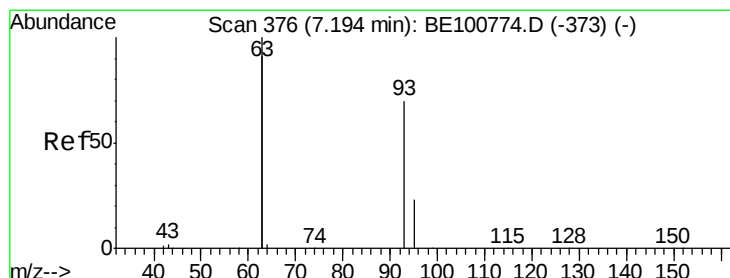
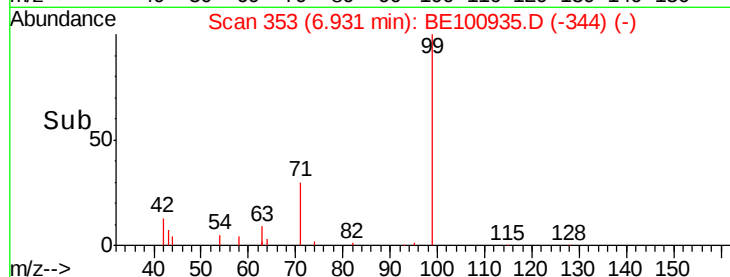
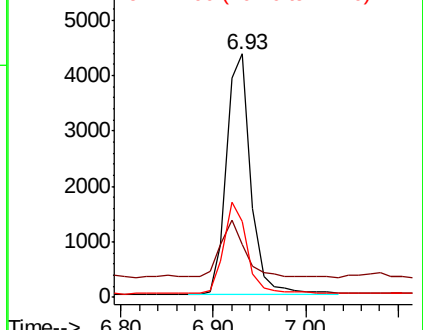
99 100

42 24.0 18.2 27.2

71 36.1 29.1 43.7



Abundance Ion 99.00 (98.70 to 99.70): BE1  
Ion 42.00 (41.70 to 42.70): BE1  
Ion 71.00 (70.70 to 71.70): BE1



#6

bis(2-Chloroethyl)ether

Concen: 0.414 ng

RT: 7.18 min Scan# 375

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

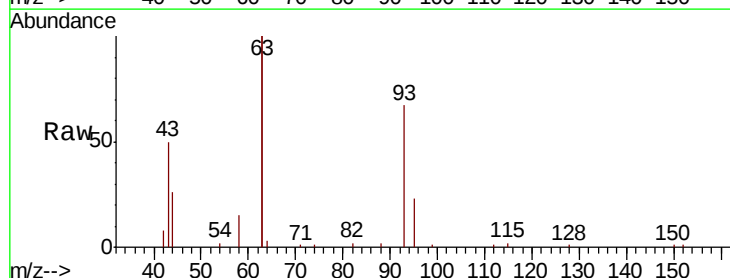
Tgt Ion: 93 Resp: 6553

Ion Ratio Lower Upper

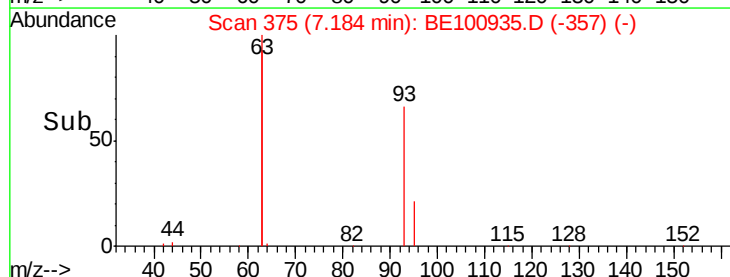
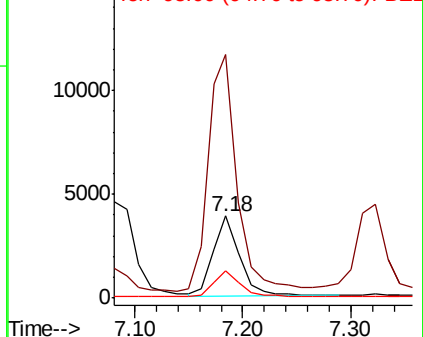
93 100

63 322.0 253.9 380.9

95 31.0 25.0 37.6



Abundance Ion 93.00 (92.70 to 93.70): BE1  
Ion 63.00 (62.70 to 63.70): BE1  
Ion 95.00 (94.70 to 95.70): BE1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 644

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 19046

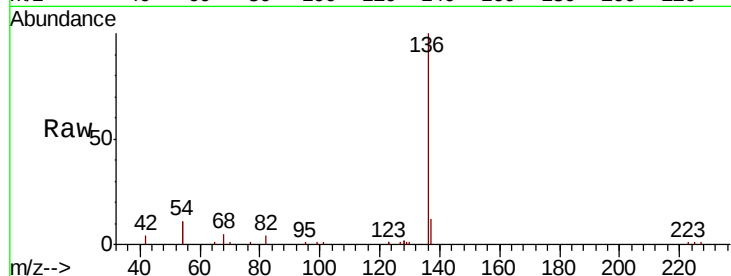
Ion Ratio Lower Upper

136 100

137 11.5 9.1 13.7

54 21.2 18.9 28.3

68 4.9 4.6 6.8

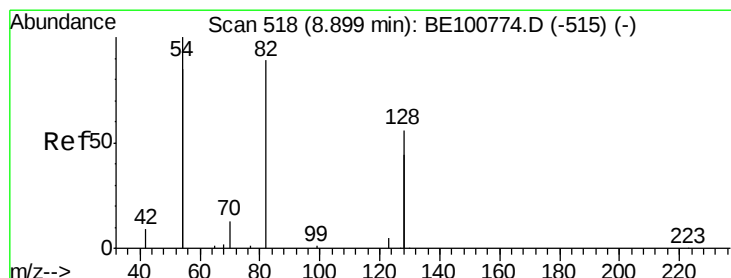
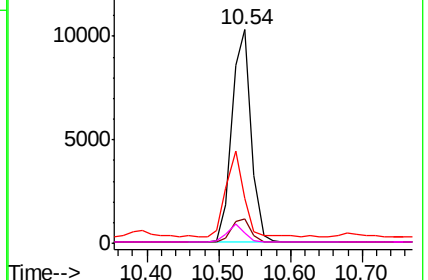
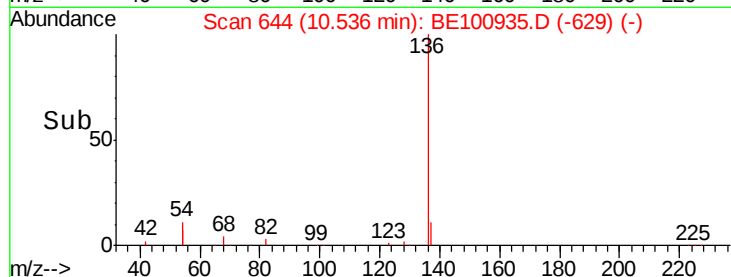


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



#8

Nitrobenzene-d5

Concen: 0.598 ng

RT: 8.90 min Scan# 518

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

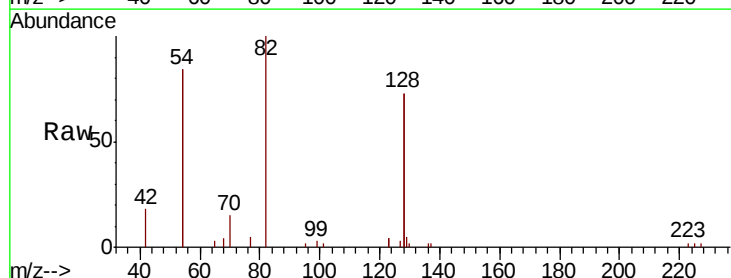
Tgt Ion: 82 Resp: 5425

Ion Ratio Lower Upper

82 100

128 145.8 113.5 170.3

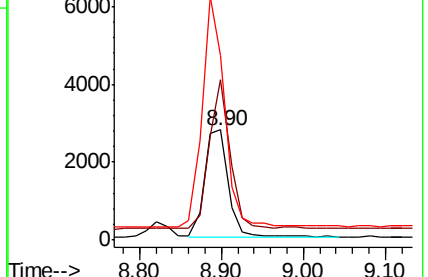
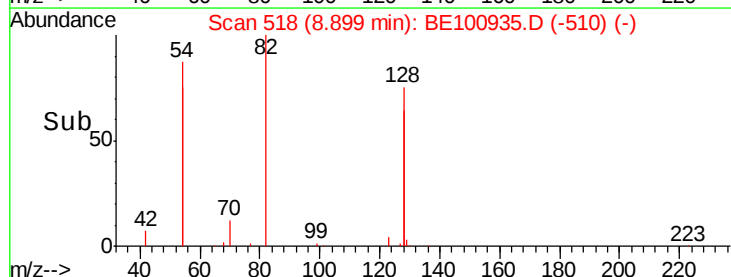
54 168.4 138.9 208.3



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#9

Naphthalene

Concen: 0.413 ng

RT: 10.58 min Scan# 647

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

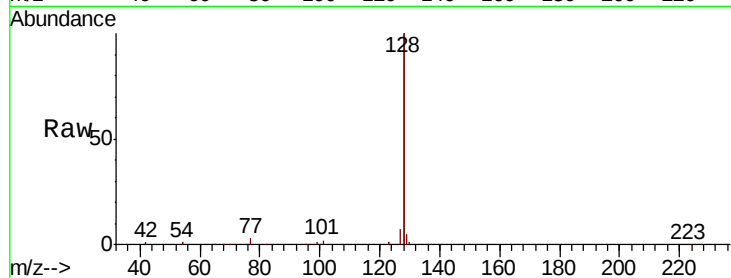
Tot Ion:128 Resp: 83651

Ion Ratio Lower Upper

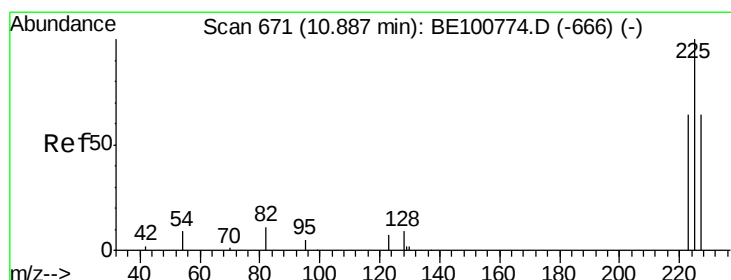
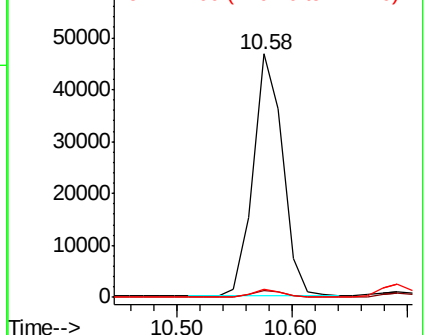
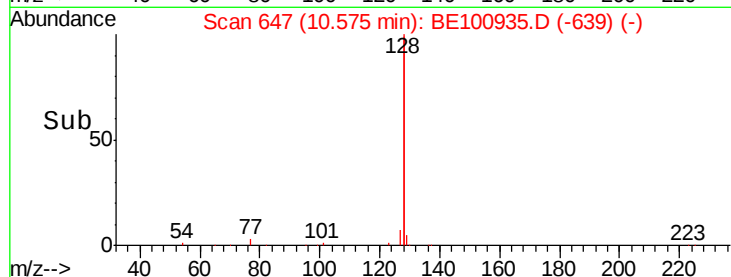
128 100

129 2.7 2.2 3.4

127 3.4 2.8 4.2



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: 0.379 ng

RT: 10.89 min Scan# 671

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

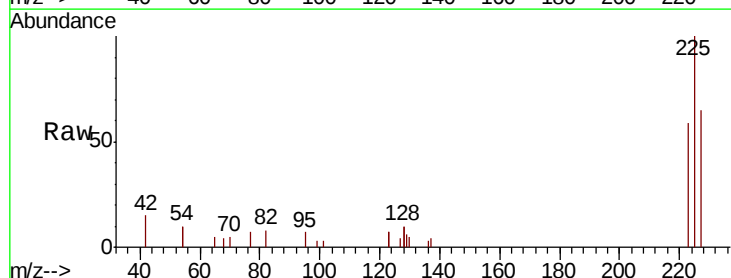
Tgt Ion:225 Resp: 2988

Ion Ratio Lower Upper

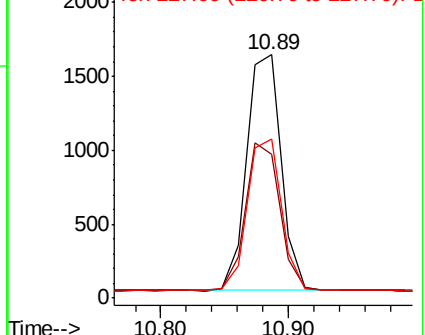
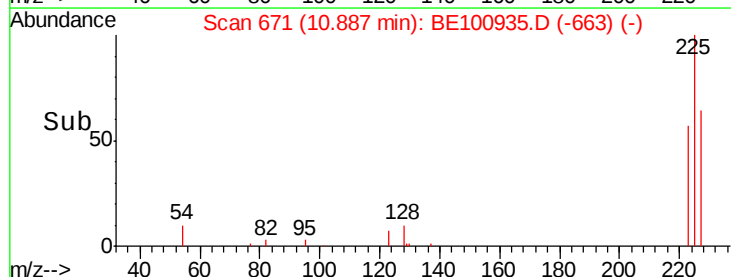
225 100

223 62.6 52.1 78.1

227 63.7 51.1 76.7



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

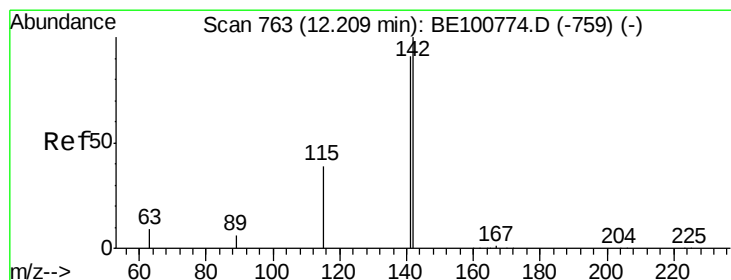
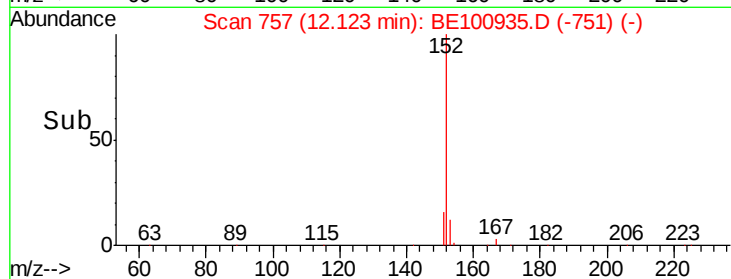
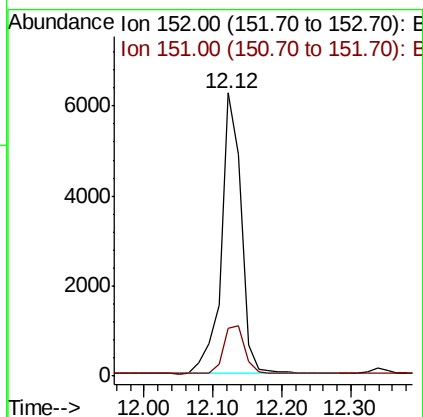
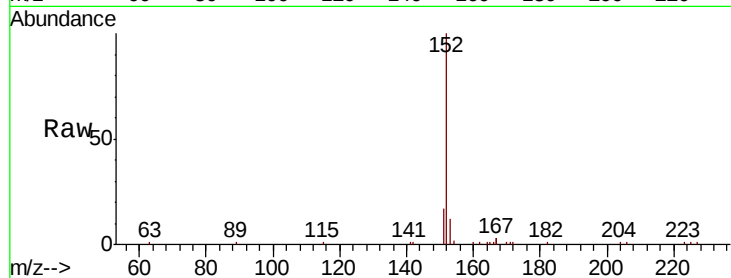




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.450 ng  
 RT: 12.12 min Scan# 757  
 Delta R.T. -0.01 min  
 Lab File: BE100935.D  
 Acq: 17 Dec 2019 1:36

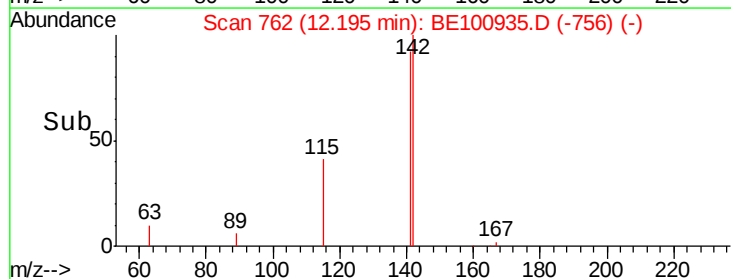
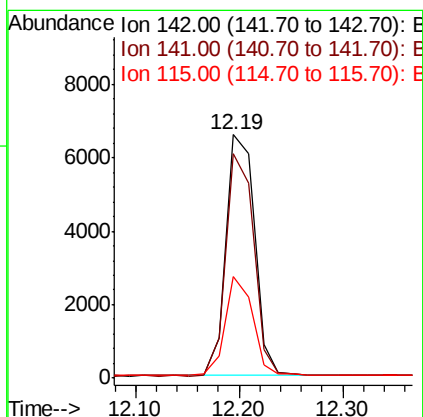
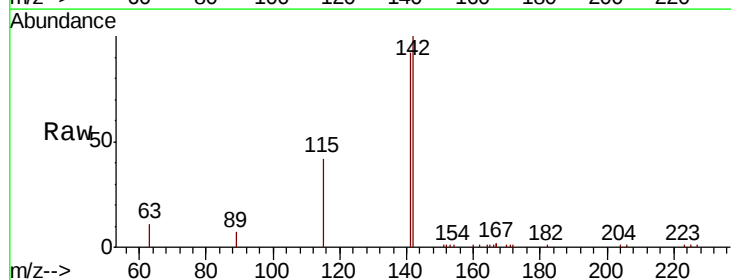
Instrument :  
 BNA\_E  
 ClientSampleId :

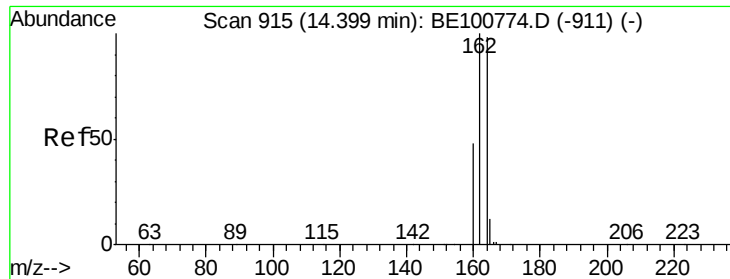
Tot Ion:152 Resp: 12409  
 Ion Ratio Lower Upper  
 152 100  
 151 18.1 15.1 22.7



#12  
 2-Methylnaphthalene  
 Concen: 0.401 ng  
 RT: 12.19 min Scan# 762  
 Delta R.T. -0.01 min  
 Lab File: BE100935.D  
 Acq: 17 Dec 2019 1:36

Tgt Ion:142 Resp: 12664  
 Ion Ratio Lower Upper  
 142 100  
 141 92.0 68.9 103.3  
 115 41.9 29.5 44.3

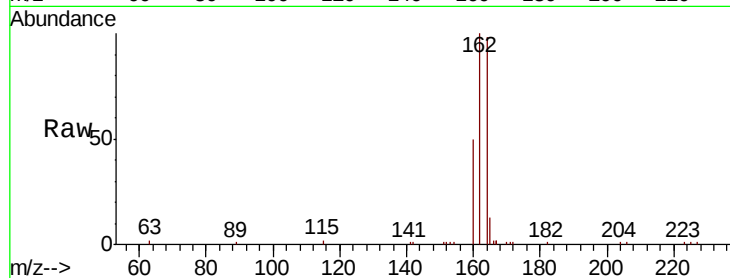




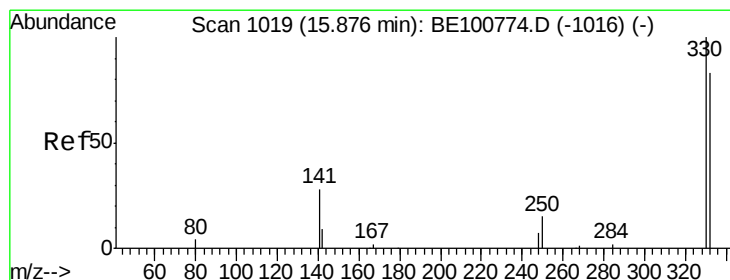
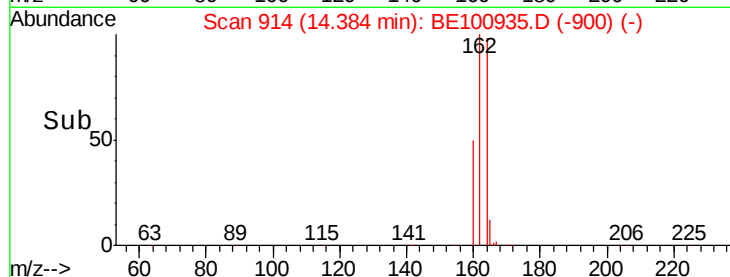
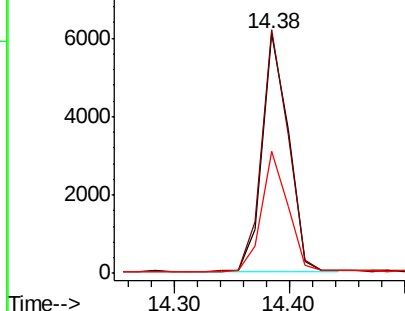
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.38 min Scan# 914  
Delta R.T. -0.00 min  
Lab File: BE100935.D  
Acq: 17 Dec 2019 1:36

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 9555  
Ion Ratio Lower Upper  
164 100  
162 101.8 86.0 129.0  
160 51.2 42.3 63.5

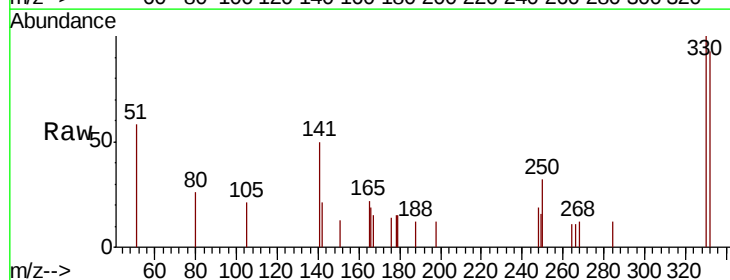


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

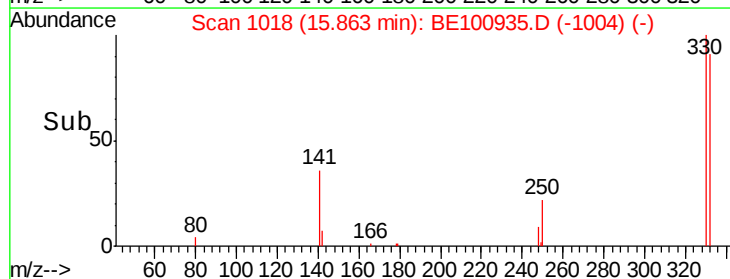
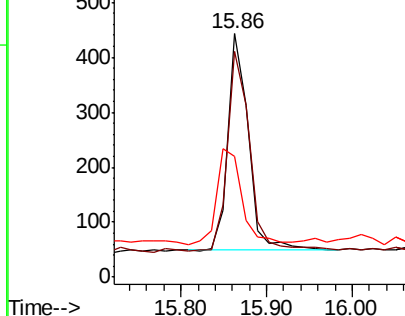


#14  
2,4,6-Tribromophenol  
Concen: 0.615 ng  
RT: 15.86 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BE100935.D  
Acq: 17 Dec 2019 1:36

Tgt Ion:330 Resp: 654  
Ion Ratio Lower Upper  
330 100  
332 101.8 74.1 111.1  
141 55.2 46.7 70.1



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

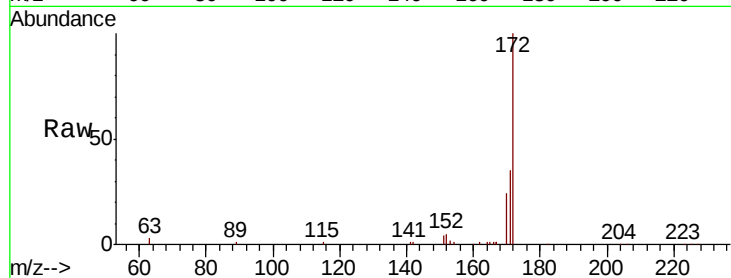




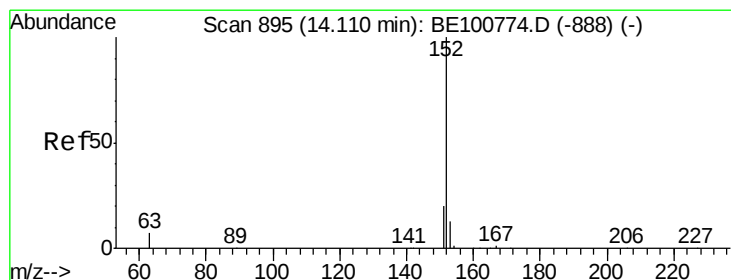
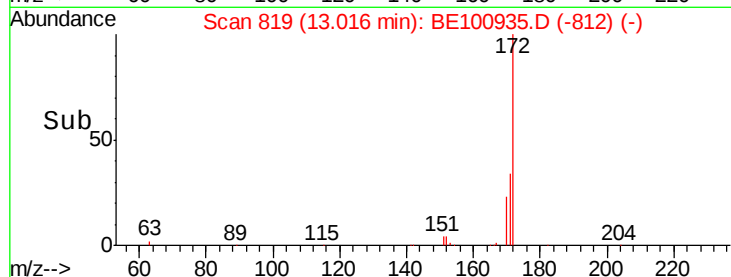
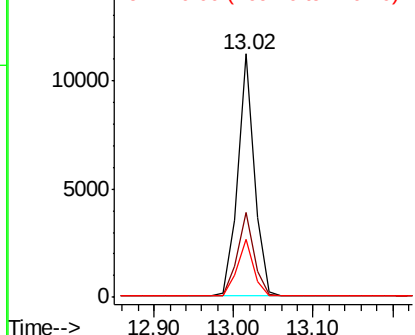
#15  
2-Fluorobiphenyl  
Concen: 0.427 ng  
RT: 13.02 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: BE100935.D  
Acq: 17 Dec 2019 1:36

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 16198  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.2 42.4  
170 23.7 19.4 29.0

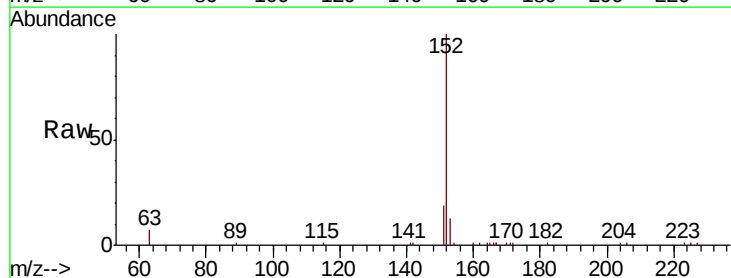


Abundance Ion 172.00 (171.70 to 172.70): E  
15000 Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

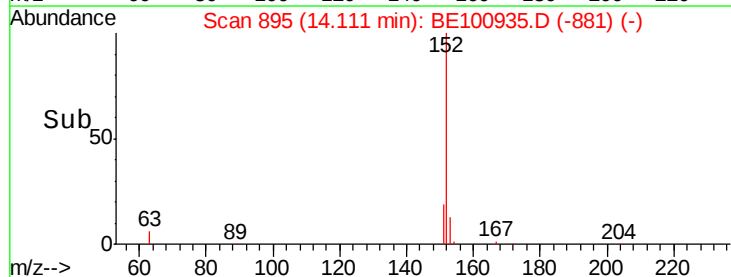
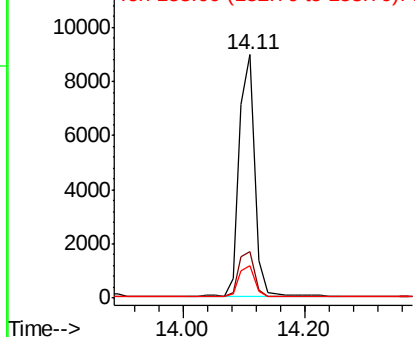


#16  
Acenaphthylene  
Concen: 0.408 ng  
RT: 14.11 min Scan# 895  
Delta R.T. -0.00 min  
Lab File: BE100935.D  
Acq: 17 Dec 2019 1:36

Tgt Ion:152 Resp: 16145  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.9 23.9  
153 12.8 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E  
12000 Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.400 ng

RT: 14.46 min Scan# 919

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

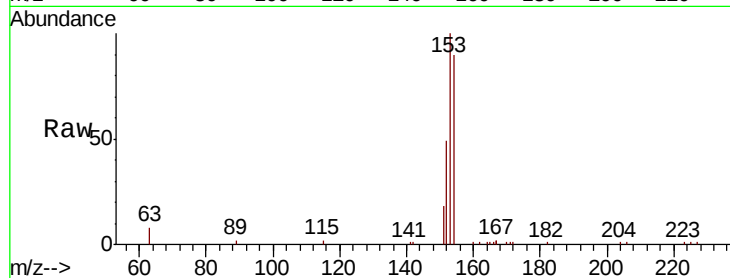
Tot Ion:154 Resp: 10895

Ion Ratio Lower Upper

154 100

153 116.4 91.5 137.3

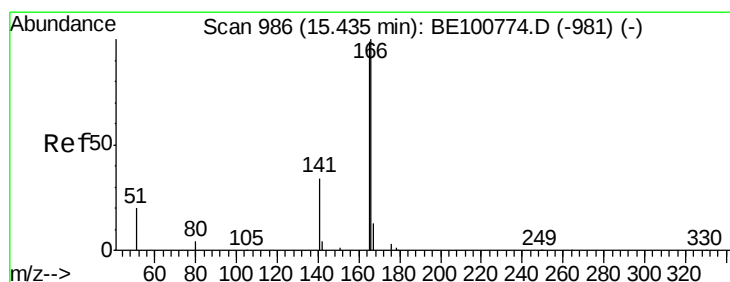
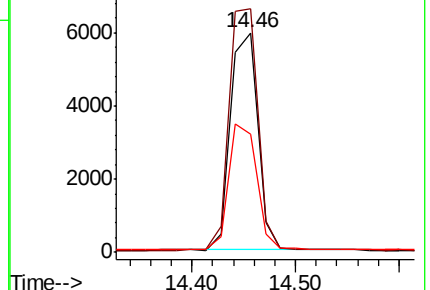
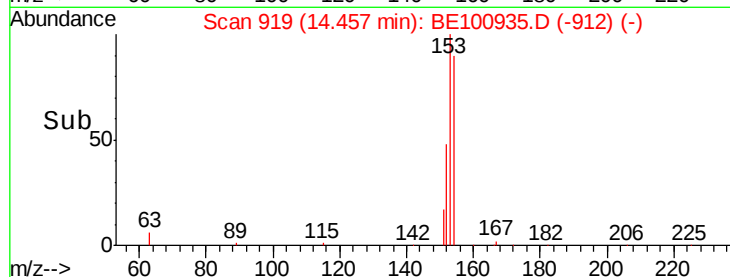
152 59.6 47.7 71.5



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



#18

Fluorene

Concen: 0.399 ng

RT: 15.42 min Scan# 985

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

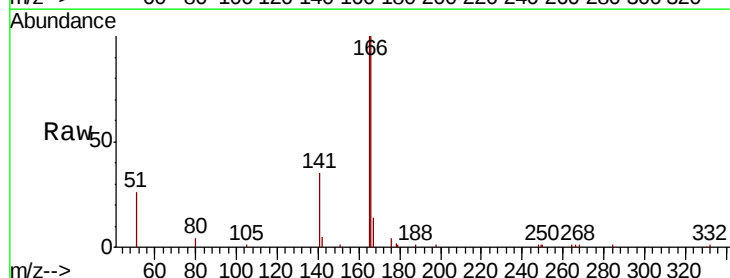
Tgt Ion:166 Resp: 14011

Ion Ratio Lower Upper

166 100

165 99.2 80.2 120.4

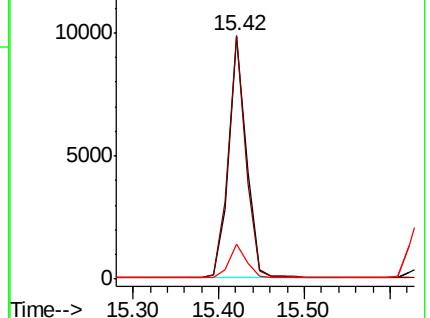
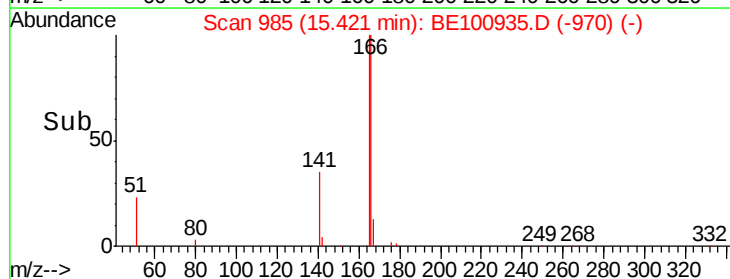
167 13.7 10.6 16.0

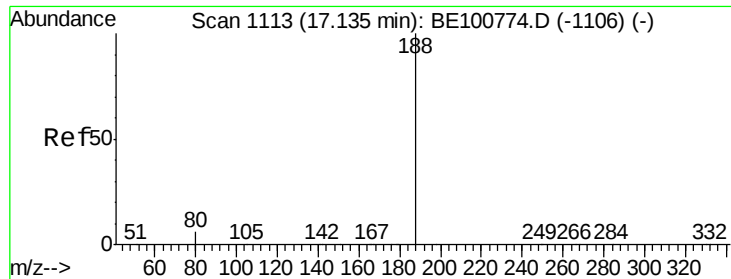


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.12 min Scan# 1112

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

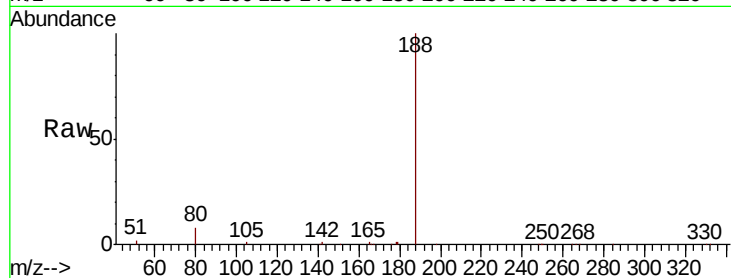
Tot Ion:188 Resp: 22684

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

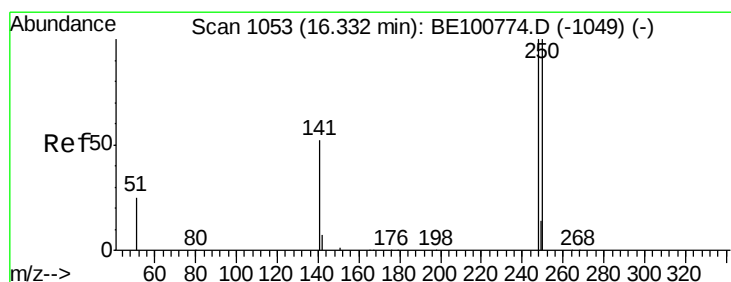
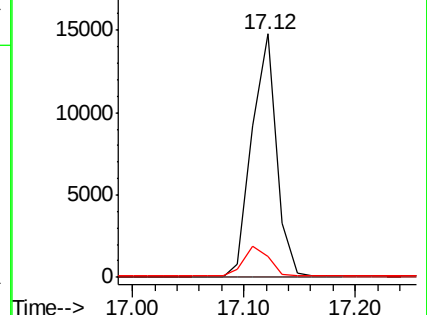
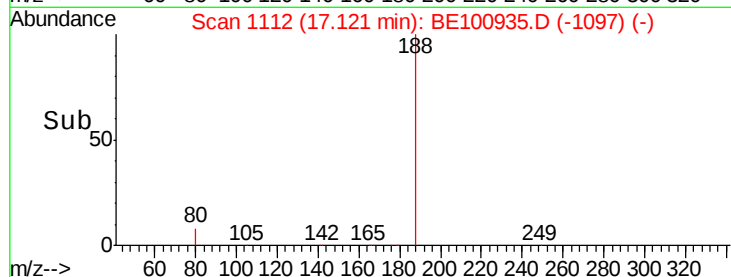
80 8.4 7.9 11.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE1

Ion 80.00 (79.70 to 80.70): BE1



#20

4-Bromophenyl-phenylether

Concen: 0.362 ng

RT: 16.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

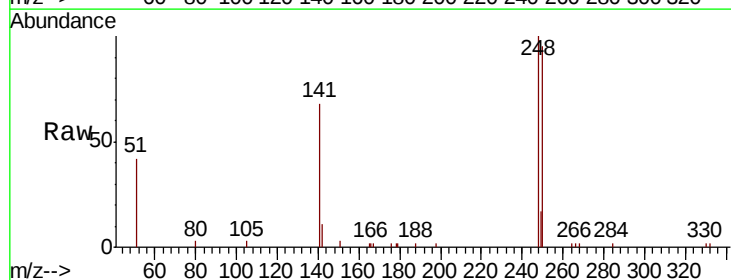
Tgt Ion:248 Resp: 4027

Ion Ratio Lower Upper

248 100

250 95.3 72.4 108.6

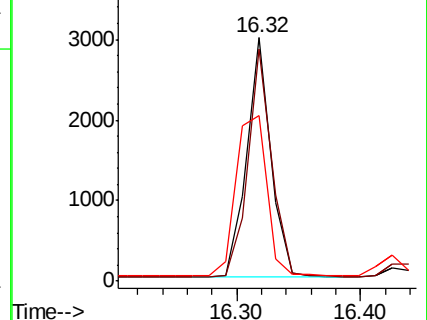
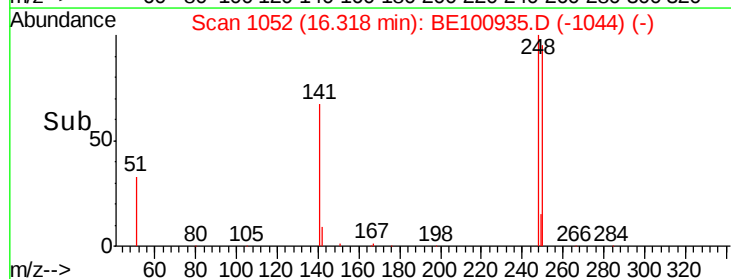
141 68.2 68.2 102.2

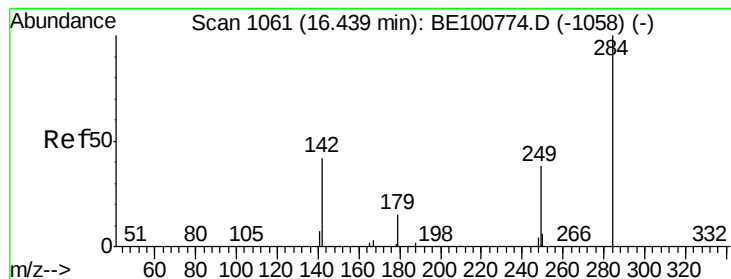


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.373 ng

RT: 16.44 min Scan# 1061

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

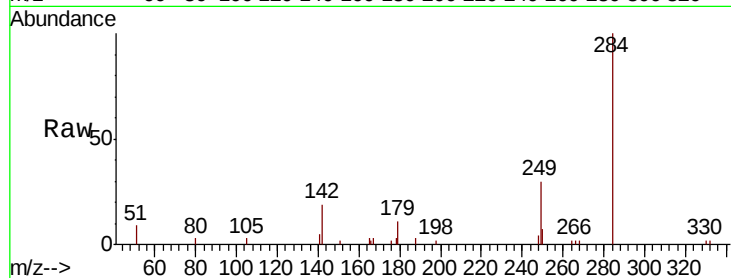
Tot Ion:284 Resp: 4510

Ion Ratio Lower Upper

284 100

142 44.2 35.0 52.4

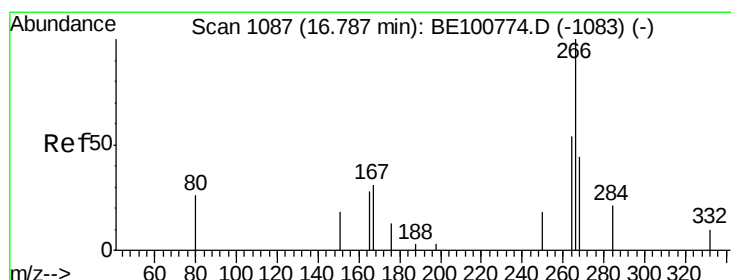
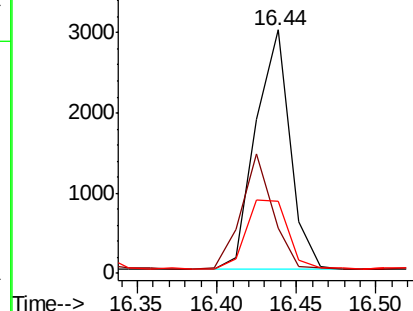
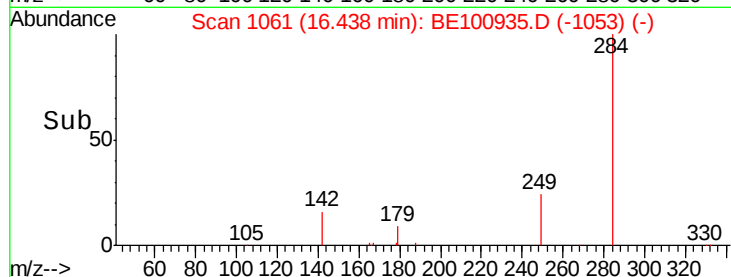
249 34.1 28.1 42.1



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



#22

Pentachlorophenol

Concen: 1.174 ng

RT: 16.77 min Scan# 1086

Delta R.T. -0.01 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

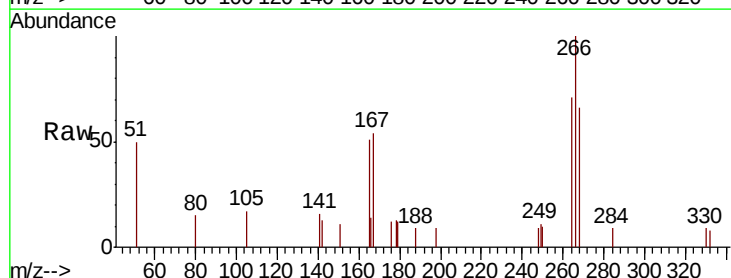
Tgt Ion:266 Resp: 982

Ion Ratio Lower Upper

266 100

264 71.3 55.1 82.7

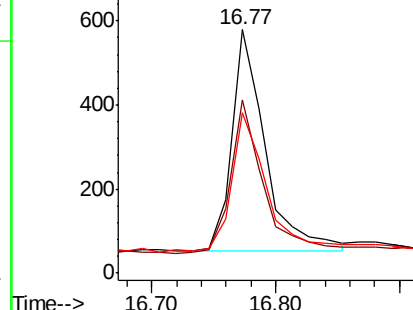
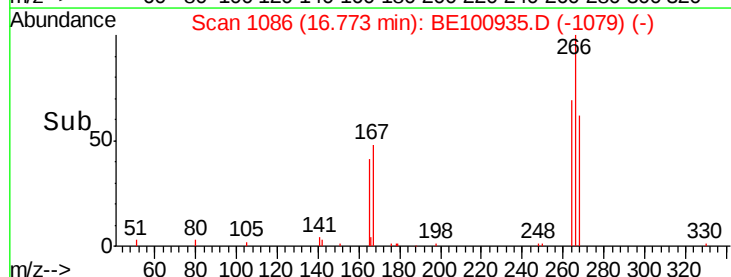
268 66.0 50.7 76.1



Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.392 ng

RT: 17.16 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

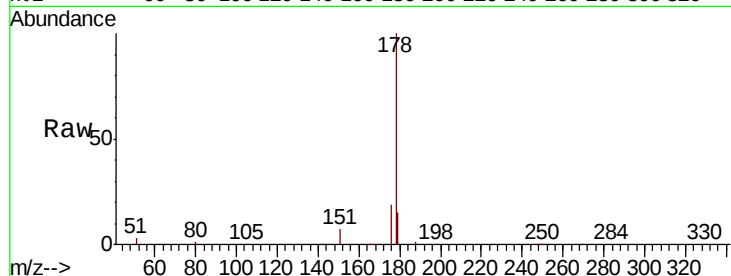
Tot Ion:178 Resp: 26950

Ion Ratio Lower Upper

178 100

176 19.2 15.6 23.4

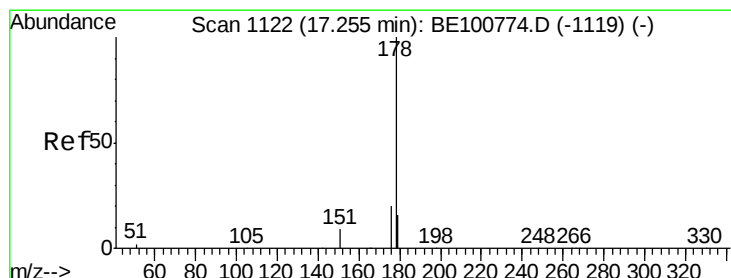
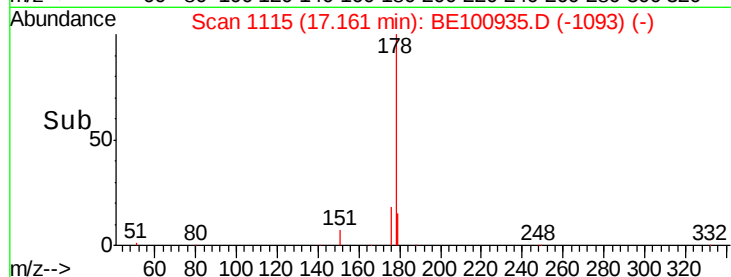
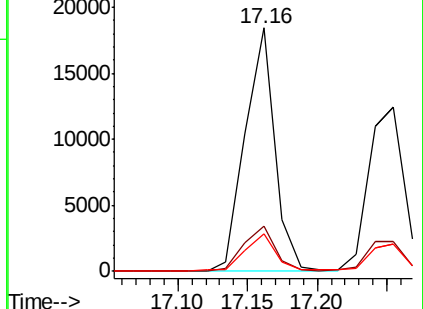
179 15.2 11.9 17.9



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



#24

Anthracene

Concen: 0.382 ng

RT: 17.26 min Scan# 1122

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

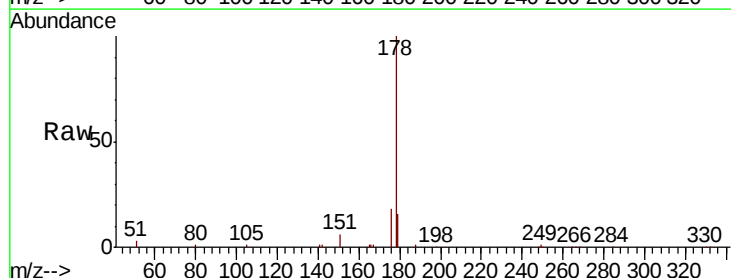
Tgt Ion:178 Resp: 21964

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

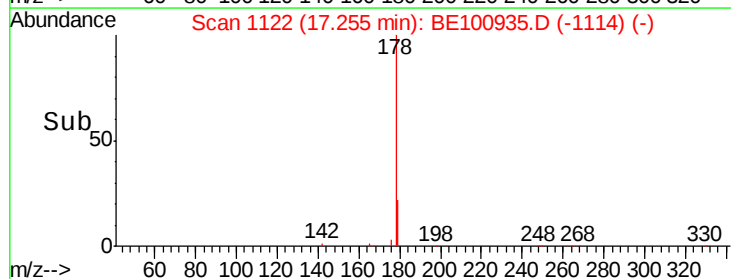
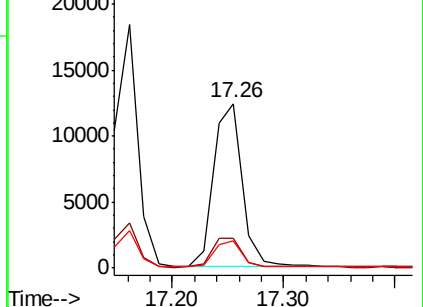
179 15.6 12.2 18.4

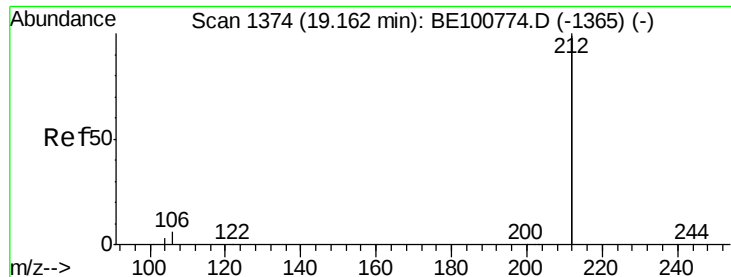


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.15 min Scan# 1372

Delta R.T. 0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

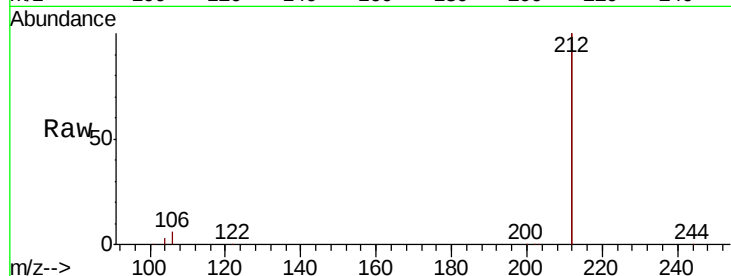
Tot Ion:212 Resp: 105453

Ion Ratio Lower Upper

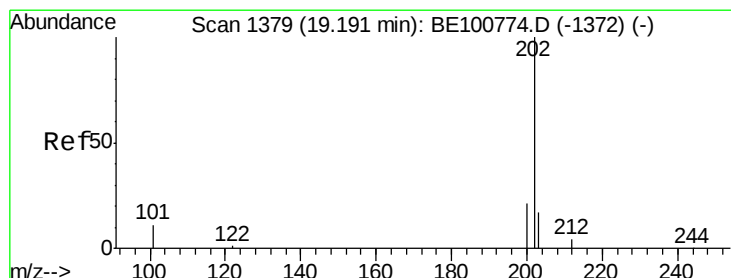
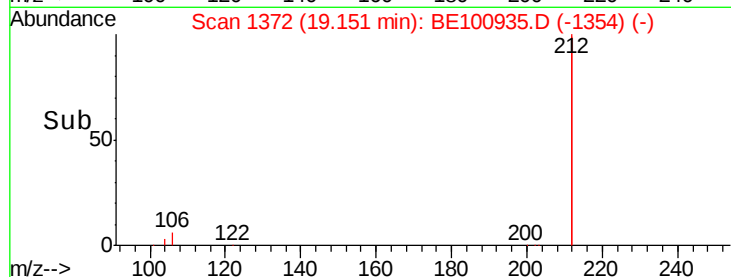
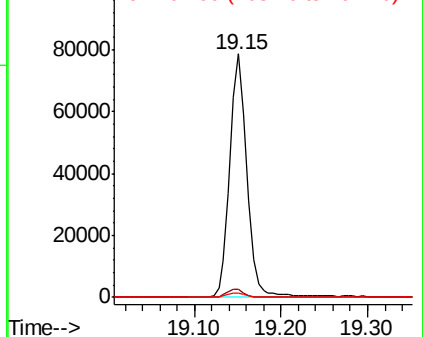
212 100

106 3.4 2.6 4.0

104 1.8 1.4 2.2



Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.379 ng

RT: 19.18 min Scan# 1377

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

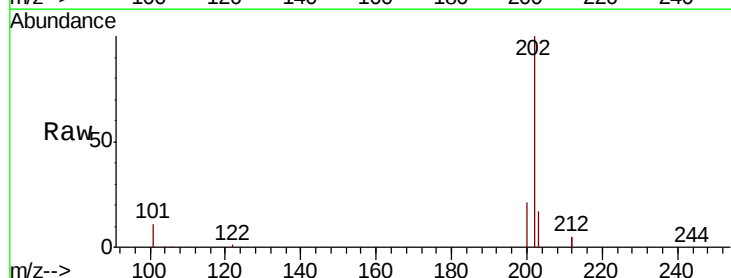
Tgt Ion:202 Resp: 31102

Ion Ratio Lower Upper

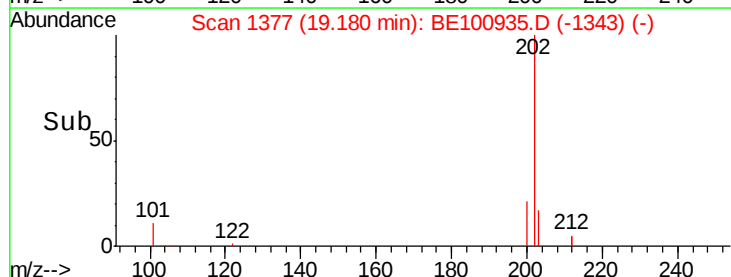
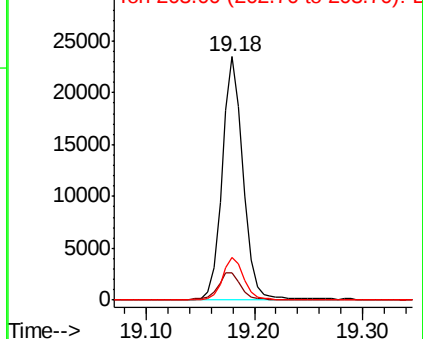
202 100

101 12.0 9.4 14.0

203 17.6 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





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.29 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

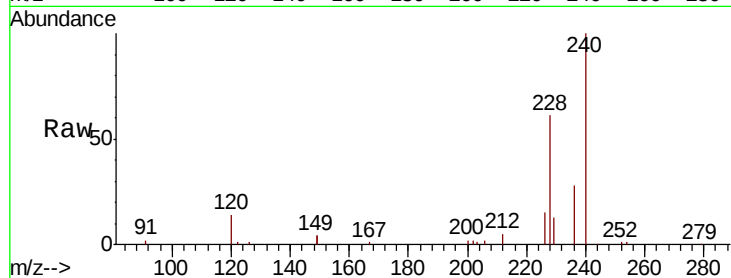
Tot Ion:240 Resp: 23322

Ion Ratio Lower Upper

240 100

120 13.5 4.0 6.0#

236 28.5 21.6 32.4

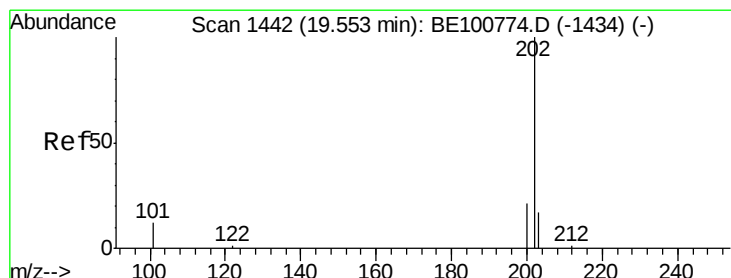
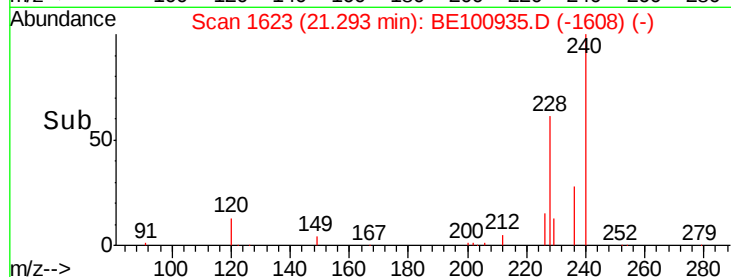
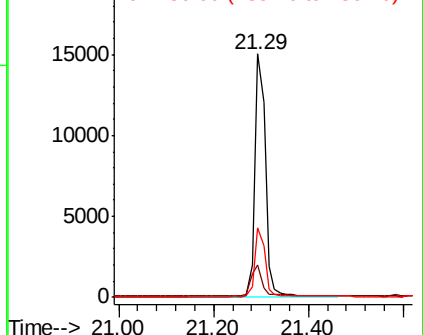


Abundance

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



#28

Pyrene

Concen: 0.408 ng

RT: 19.54 min Scan# 1440

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

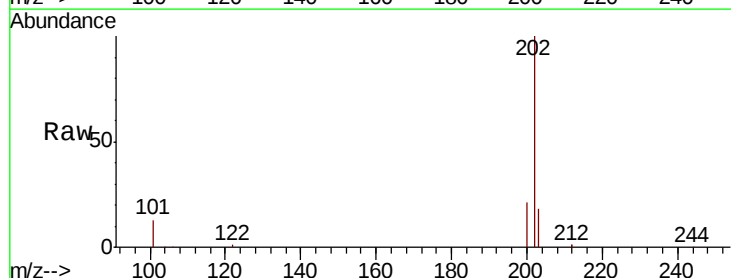
Tgt Ion:202 Resp: 30882

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

203 17.8 13.8 20.8

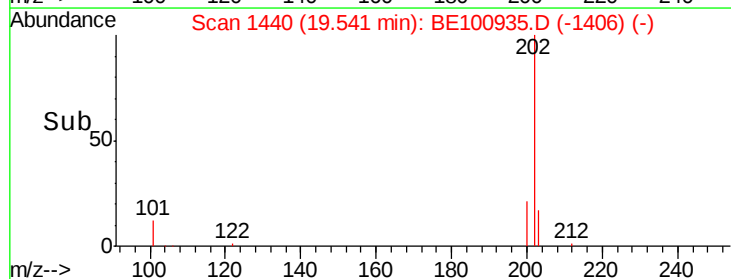
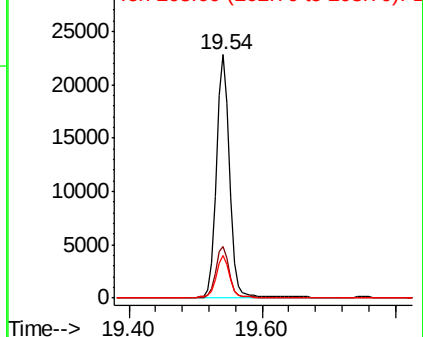


Abundance

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





#29

Terphenyl-d14

Concen: 0.387 ng

RT: 19.75 min Scan# 1477

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

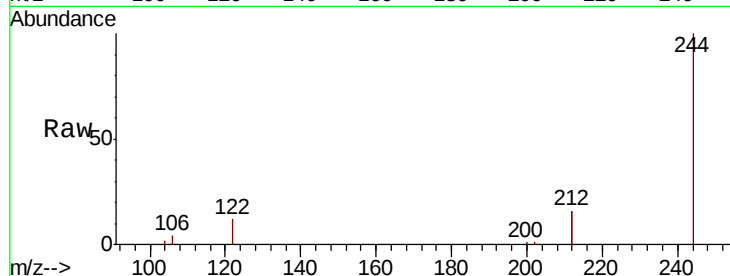
Tot Ion:244 Resp: 21639

Ion Ratio Lower Upper

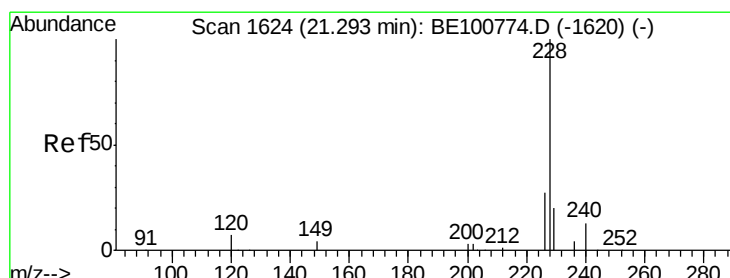
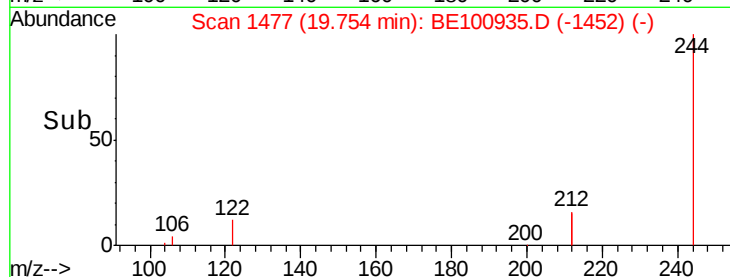
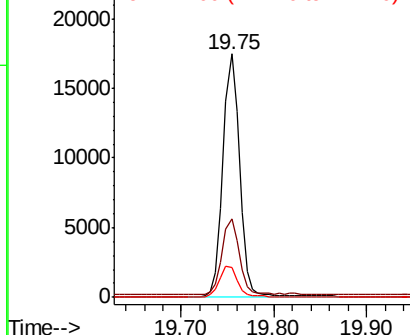
244 100

212 32.1 25.2 37.8

122 12.2 8.9 13.3



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.409 ng

RT: 21.28 min Scan# 1622

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

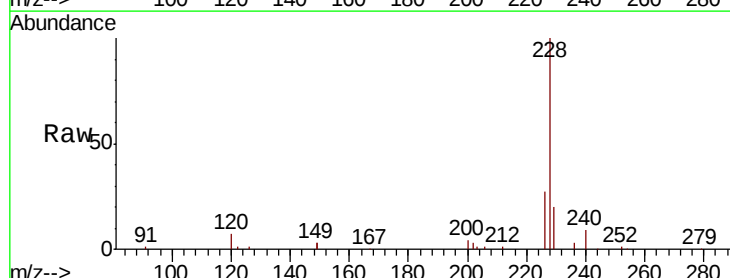
Tgt Ion:228 Resp: 28135

Ion Ratio Lower Upper

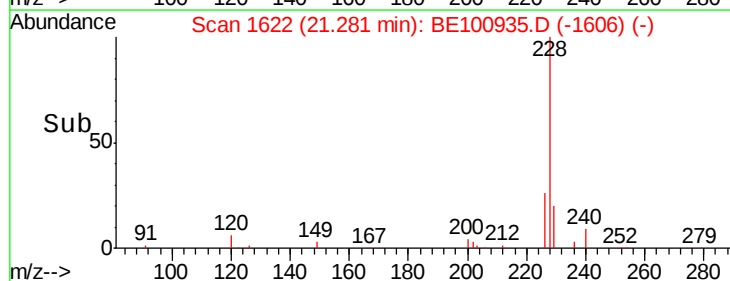
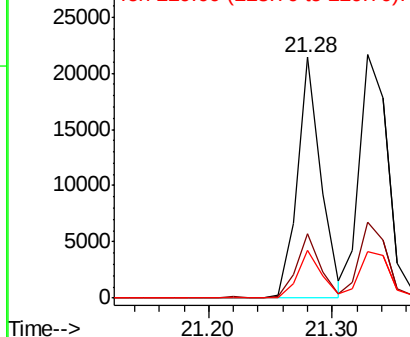
228 100

226 26.6 21.4 32.0

229 19.9 15.8 23.6



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





#31

Chrysene

Concen: 0.424 ng

RT: 21.33 min Scan# 1626

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampled :

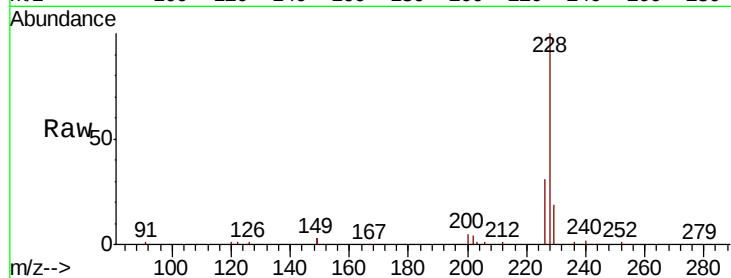
Tot Ion:228 Resp: 34264

Ion Ratio Lower Upper

228 100

226 31.3 25.3 37.9

229 19.1 15.2 22.8

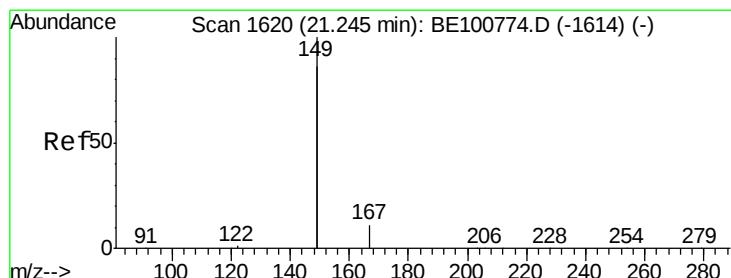
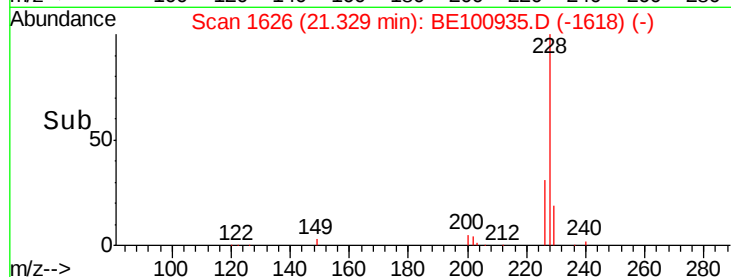
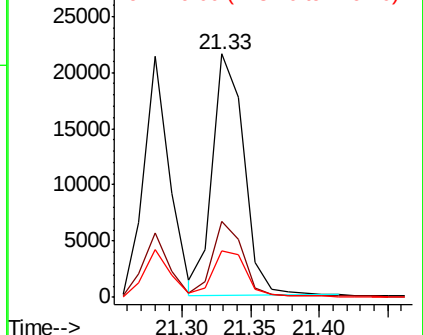


Abundance

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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.544 ng

RT: 21.23 min Scan# 1618

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

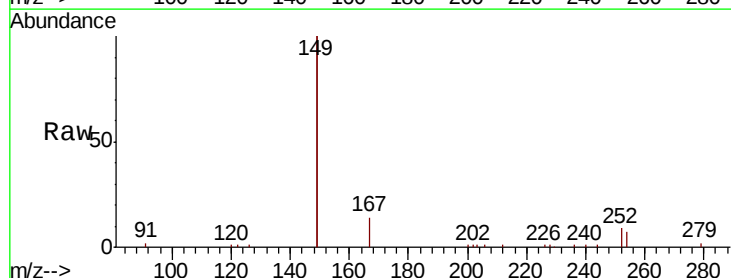
Tgt Ion:149 Resp: 26325

Ion Ratio Lower Upper

149 100

167 6.5 5.0 7.4

279 1.0 0.6 1.0#

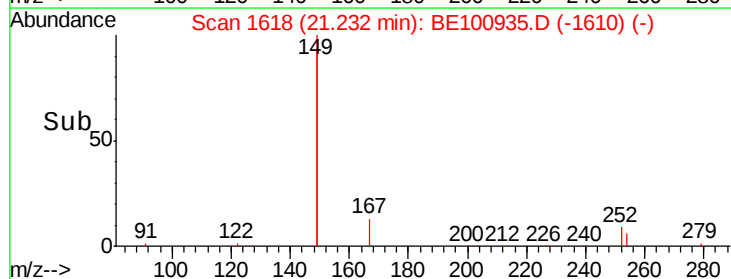
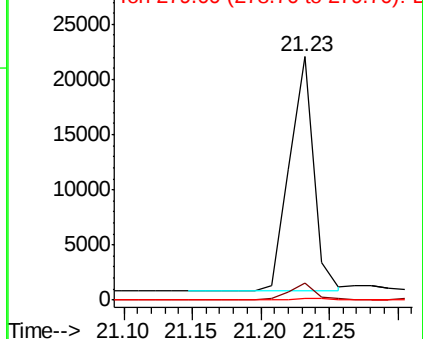


Abundance

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

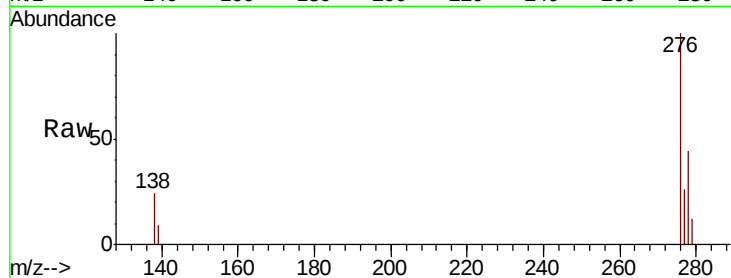




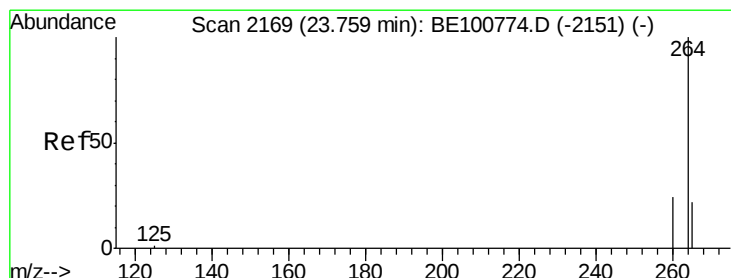
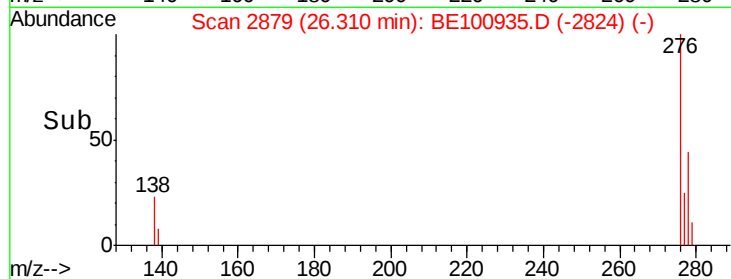
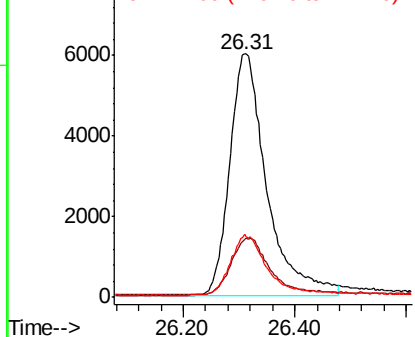
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.393 ng  
RT: 26.31 min Scan# 2879  
Delta R.T. -0.00 min  
Lab File: BE100935.D  
Acq: 17 Dec 2019 1:36

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:276 Resp: 27621  
Ion Ratio Lower Upper  
276 100  
138 24.0 18.4 27.6  
277 24.3 19.4 29.2

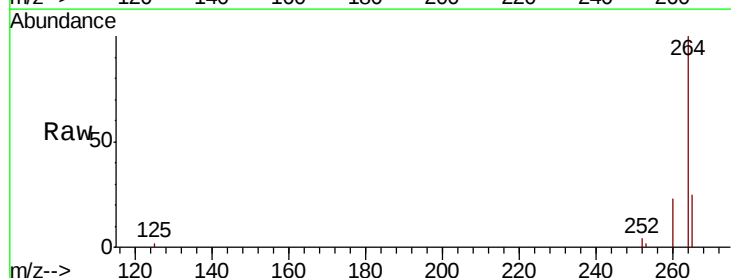


Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

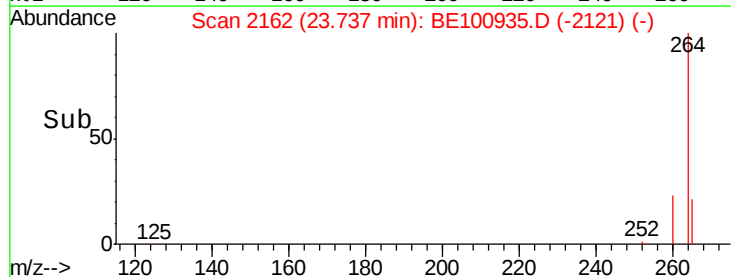
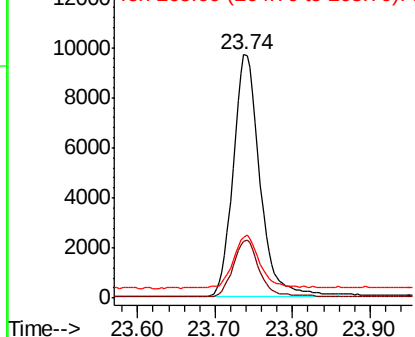


#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.74 min Scan# 2162  
Delta R.T. -0.00 min  
Lab File: BE100935.D  
Acq: 17 Dec 2019 1:36

Tgt Ion:264 Resp: 23152  
Ion Ratio Lower Upper  
264 100  
260 23.3 19.4 29.0  
265 24.8 20.1 30.1



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





#35

Benzo(b)fluoranthene

Concen: 0.449 ng

RT: 22.99 min Scan# 1953

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

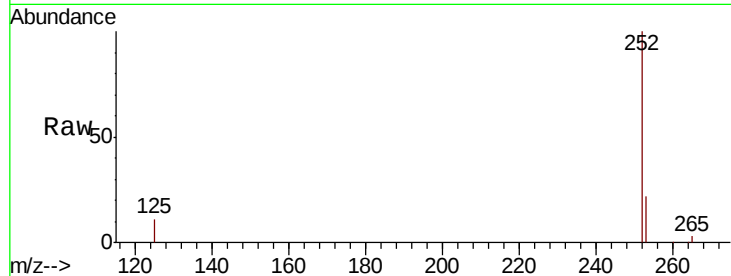
Tot Ion:252 Resp: 28461

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.6

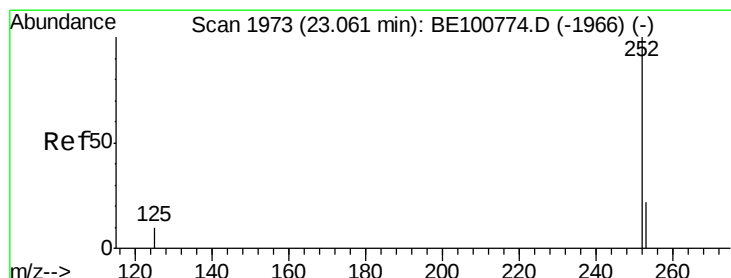
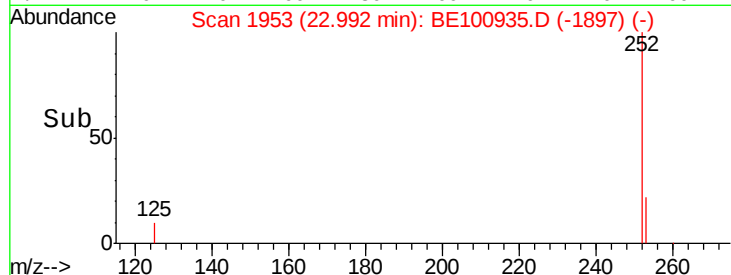
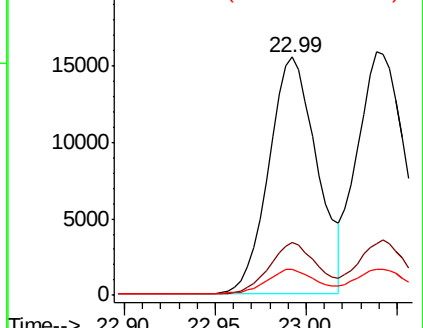
125 10.9 8.3 12.5



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



#36

Benzo(k)fluoranthene

Concen: 0.448 ng

RT: 23.04 min Scan# 1966

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

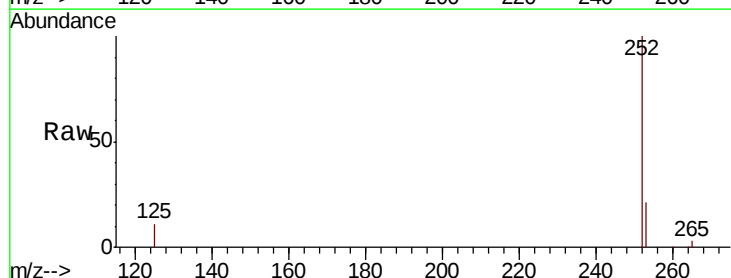
Tgt Ion:252 Resp: 31816

Ion Ratio Lower Upper

252 100

253 21.4 17.8 26.6

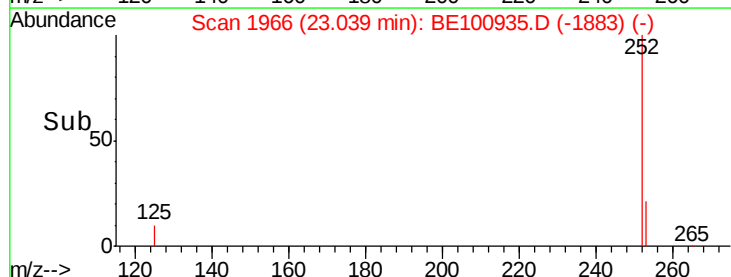
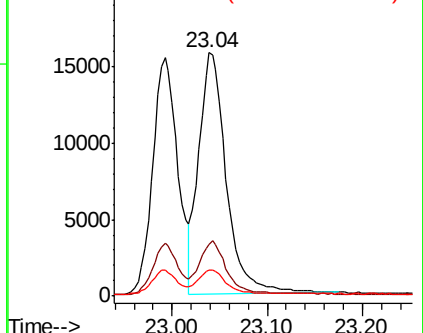
125 10.9 9.4 14.0



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





#37

Benzo(a)pyrene

Concen: 0.454 ng

RT: 23.63 min Scan# 2132

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

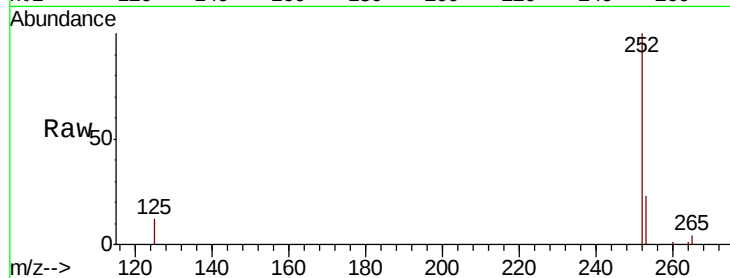
Tot Ion:252 Resp: 24908

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

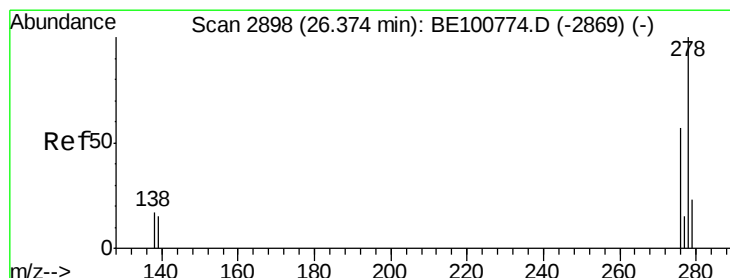
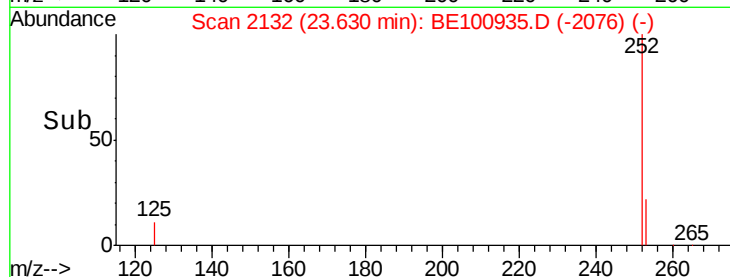
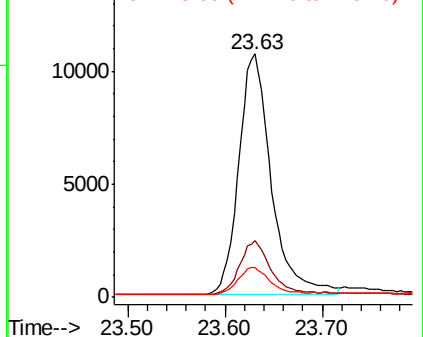
125 12.1 9.9 14.9



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



#38

Dibenzo(a,h)anthracene

Concen: 0.414 ng

RT: 26.34 min Scan# 2887

Delta R.T. -0.00 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

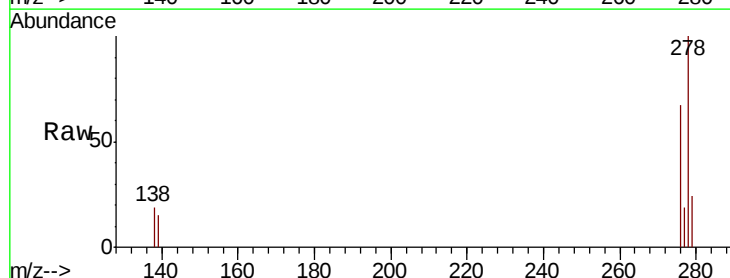
Tgt Ion:278 Resp: 22610

Ion Ratio Lower Upper

278 100

139 15.4 13.8 20.6

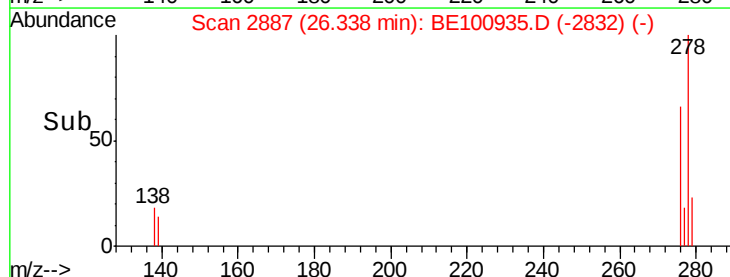
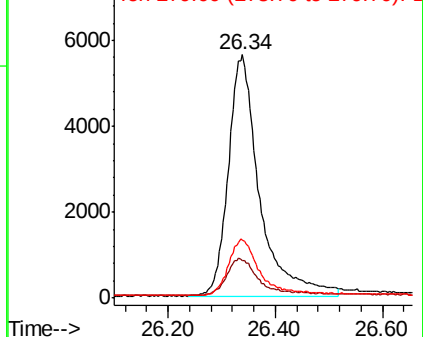
279 23.9 19.8 29.6



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





#39

Benzo(a,h,i)perylene

Concen: 0.448 ng

RT: 27.09 min Scan# 3098

Delta R.T. -0.01 min

Lab File: BE100935.D

Acq: 17 Dec 2019 1:36

Instrument :

BNA\_E

ClientSampleId :

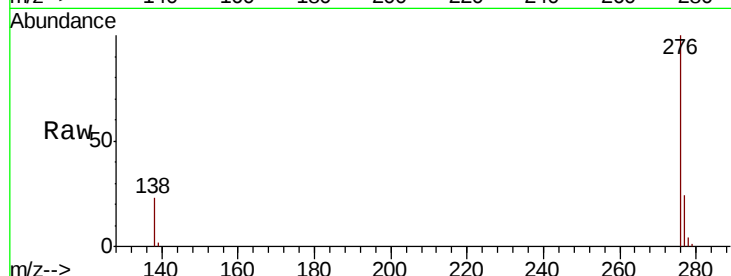
Tot Ion: 276 Resp: 26139

Ion Ratio Lower Upper

276 100

277 24.4 19.7 29.5

138 22.6 18.0 27.0



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

