

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE062019\  
 Data File : BE100128.D  
 Acq On : 21 Jun 2019 3:52  
 Operator : JU/SJ  
 Sample : K3345-06  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C-MW-9\_061119

Quant Time: Jun 21 06:51:58 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 19 15:07:24 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.72  | 152  | 617      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.54 | 136  | 2284     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.41 | 164  | 2230     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.15 | 188  | 7970     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.34 | 240  | 10355    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.84 | 264  | 11928    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.29  | 112  | 336      | 0.26 | ng    | -0.01    |
| 5) Phenol-d6                | 6.91  | 99   | 259      | 0.15 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 8.90  | 82   | 875      | 0.39 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152  | 156      | 0.04 | ng    | -0.01    |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330  | 672      | 0.55 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.03 | 172  | 4156     | 0.47 | ng    | -0.01    |
| 25) Fluoranthene-d10        | 19.19 | 212  | 3958     | 0.03 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.79 | 244  | 12006    | 0.58 | ng    | -0.02    |

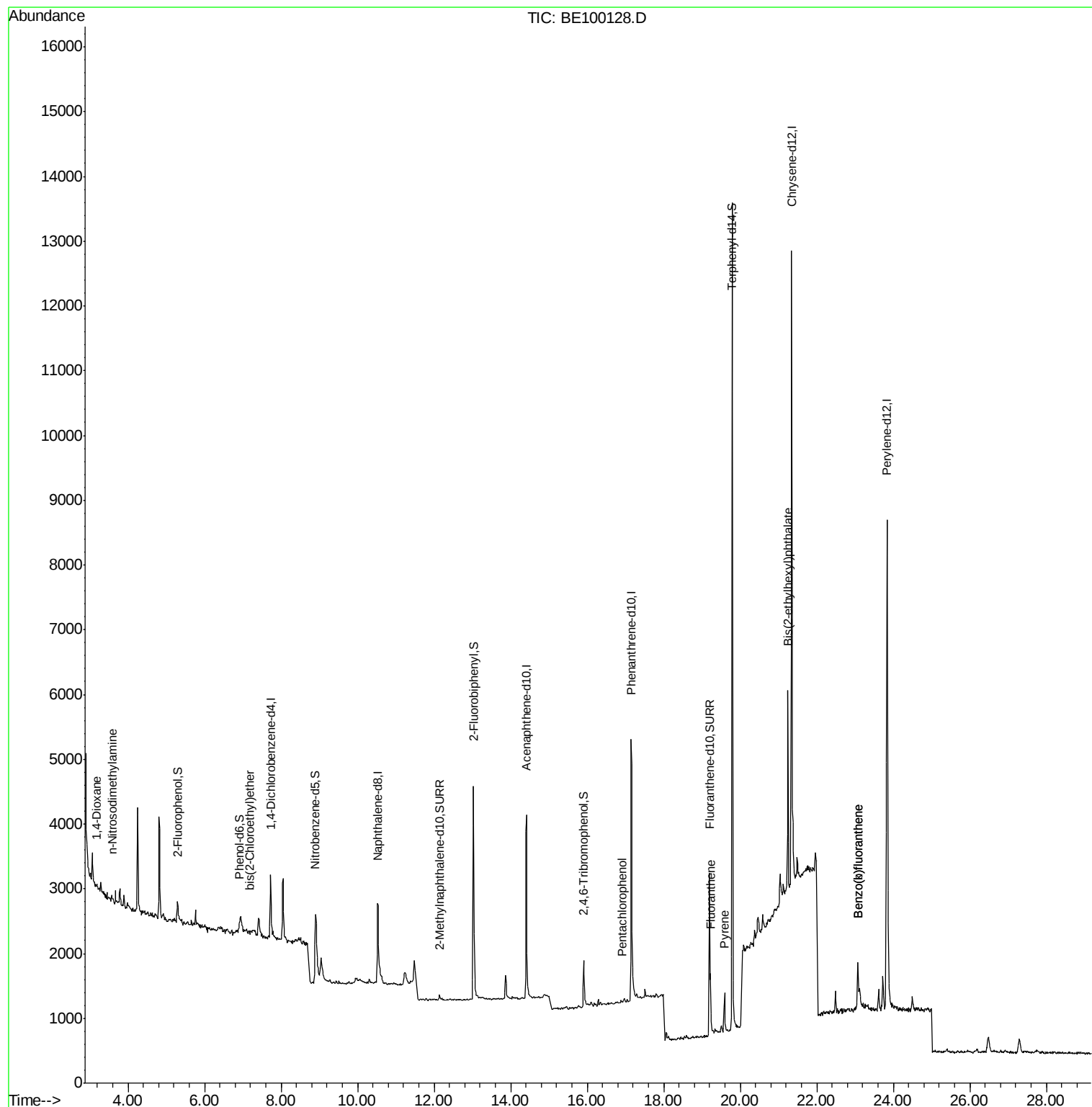
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.19  | 88   | 23       | 0.023 | ng    | # 1    |
| 3) n-Nitrosodimethylamine      | 3.59  | 42   | 23       | 0.377 | ng    | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93   | 13       | 0.041 | ng    | # 53   |
| 22) Pentachlorophenol          | 16.91 | 266  | 9        | 0.248 | ng    | 90     |
| 26) Fluoranthene               | 19.22 | 202  | 794      | 0.026 | ng    | # 96   |
| 28) Pyrene                     | 19.59 | 202  | 681      | 0.026 | ng    | # 90   |
| 32) Bis(2-ethylhexyl)phthalate | 21.24 | 149  | 3464     | 0.119 | ng    | # 98   |
| 35) Benzo(b)fluoranthene       | 23.07 | 252  | 929      | 0.027 | ng    | # 1    |
| 36) Benzo(k)fluoranthene       | 23.07 | 252  | 929      | 0.023 | ng    | # 1    |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE062019\  
Data File : BE100128.D  
Acq On : 21 Jun 2019 3:52  
Operator : JU/SJ  
Sample : K3345-06  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C-MW-9\_061119

Quant Time: Jun 21 06:51:58 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE061919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 19 15:07:24 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.72 min Scan# 422

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9 061119

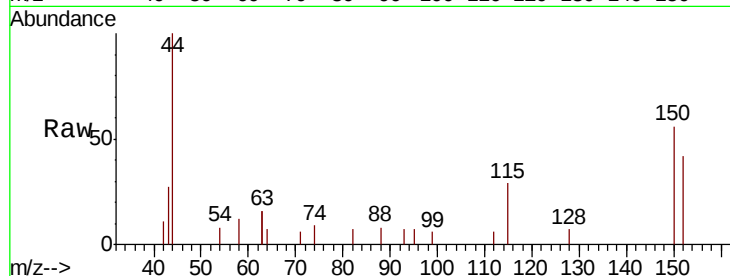
Tgt Ion: 152 Resp: 617

Ion Ratio Lower Upper

152 100

150 135.5 99.8 149.8

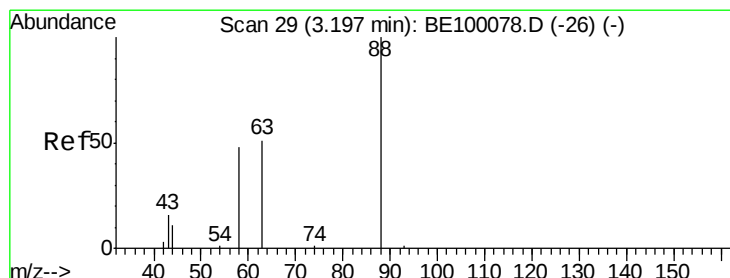
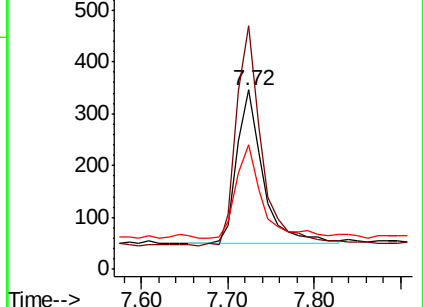
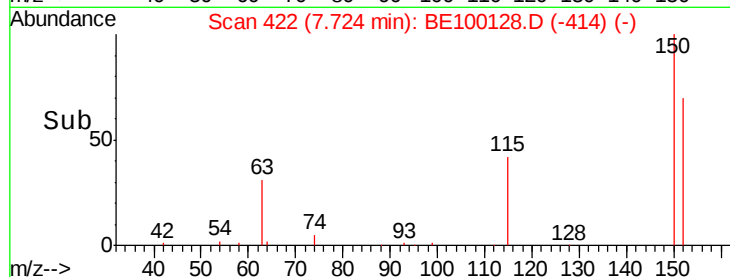
115 69.7 51.3 76.9



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: 0.023 ng

RT: 3.19 min Scan# 28

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

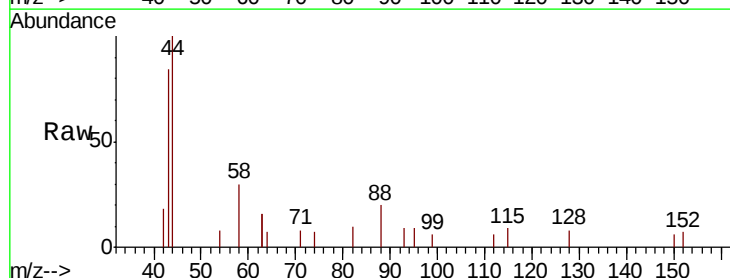
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

58 0.0 51.1 76.7#

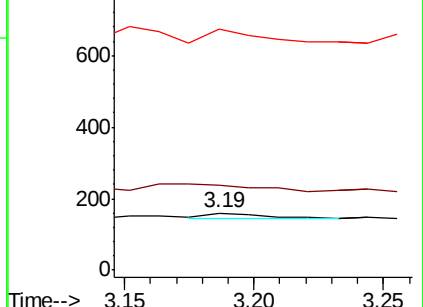
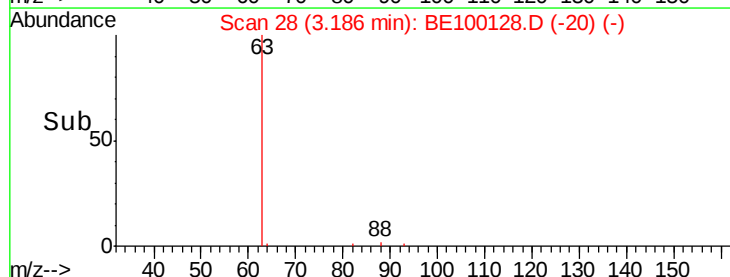
43 217.4 21.7 32.5#



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: 0.377 ng

RT: 3.59 min Scan# 63

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9\_061119

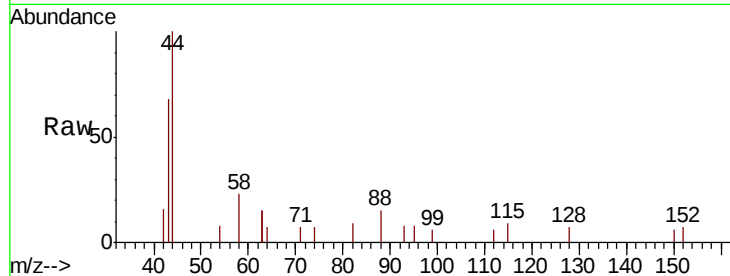
Tgt Ion: 42 Resp: 23

Ion Ratio Lower Upper

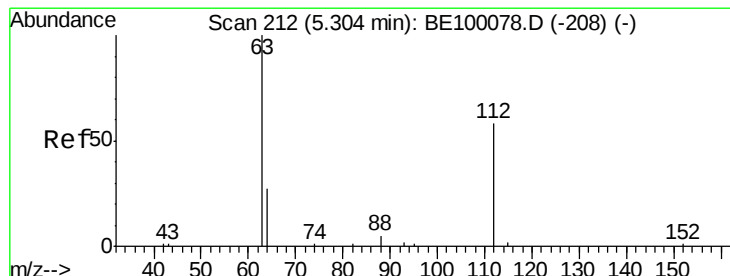
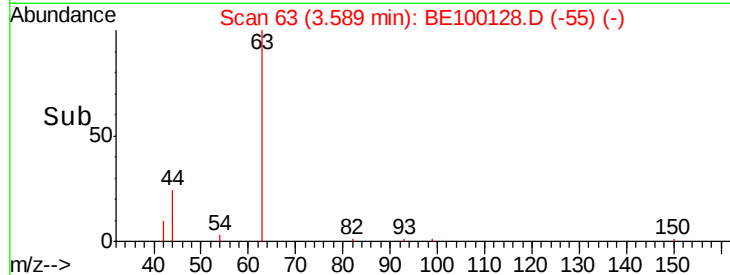
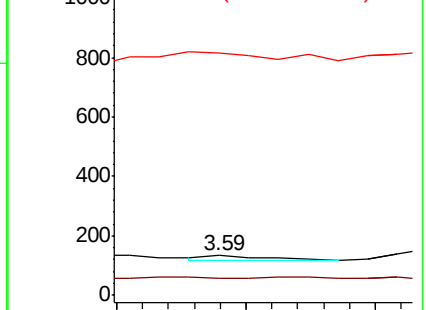
42 100

74 0.0 0.0 0.0

44 0.0 0.0 0.0



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: 0.262 ng

RT: 5.29 min Scan# 211

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

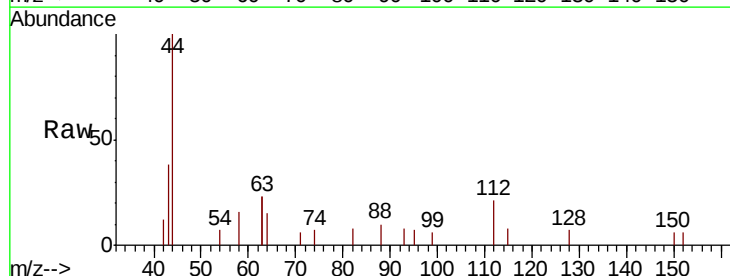
Tgt Ion: 112 Resp: 336

Ion Ratio Lower Upper

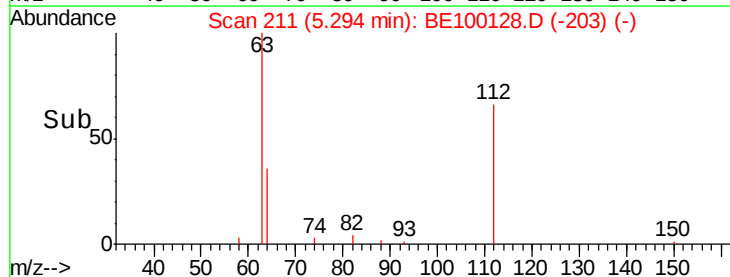
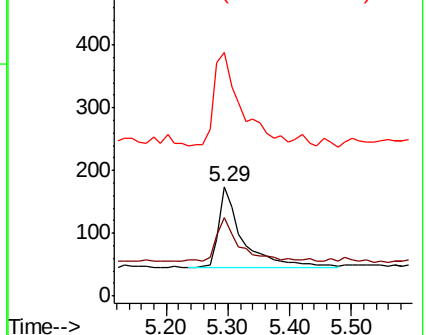
112 100

64 54.5 22.0 33.0#

63 131.5 121.8 182.6



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: 0.147 ng

RT: 6.91 min Scan# 351

Delta R.T. -0.02 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9 061119

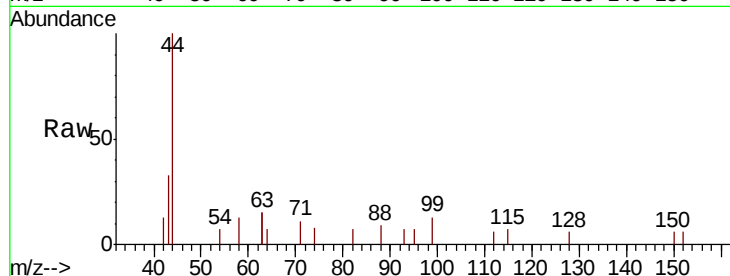
Tgt Ion: 99 Resp: 259

Ion Ratio Lower Upper

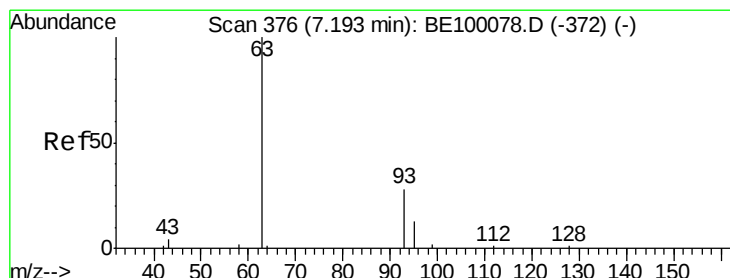
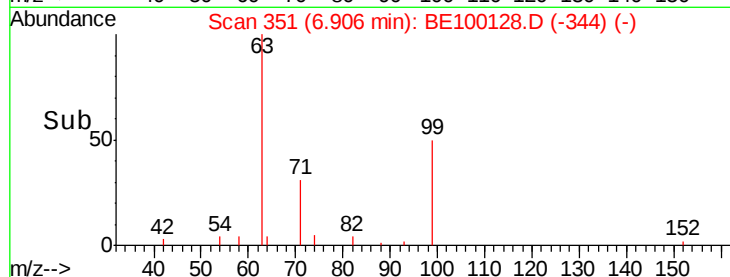
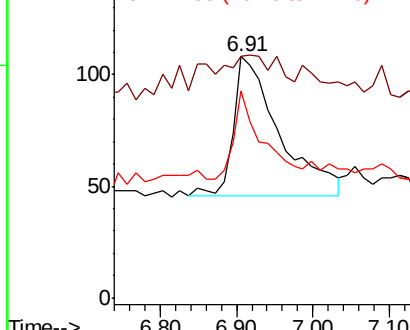
99 100

42 27.0 0.0 0.0#

71 40.2 37.6 56.4



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: 0.041 ng

RT: 7.18 min Scan# 375

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

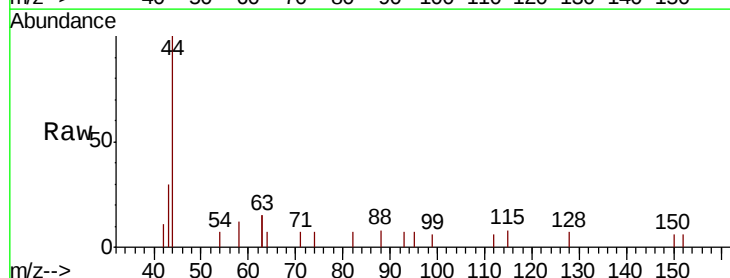
Tgt Ion: 93 Resp: 13

Ion Ratio Lower Upper

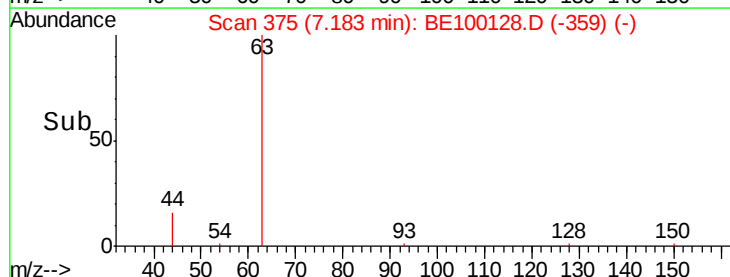
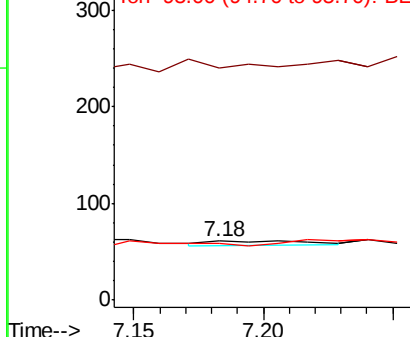
93 100

63 169.2 200.0 300.0#

95 0.0 24.0 36.0#



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: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9\_061119

Tgt Ion: 136 Resp: 2284

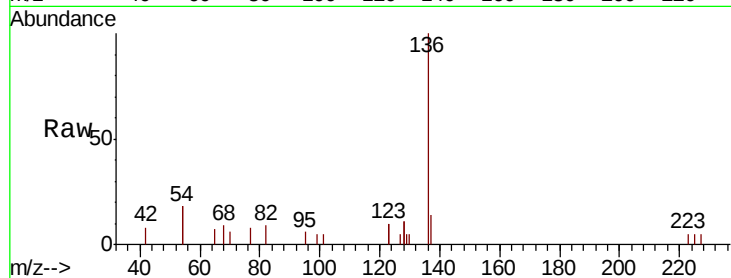
Ion Ratio Lower Upper

136 100

137 14.5 11.6 17.4

54 35.9 33.9 50.9

68 9.3 7.8 11.8

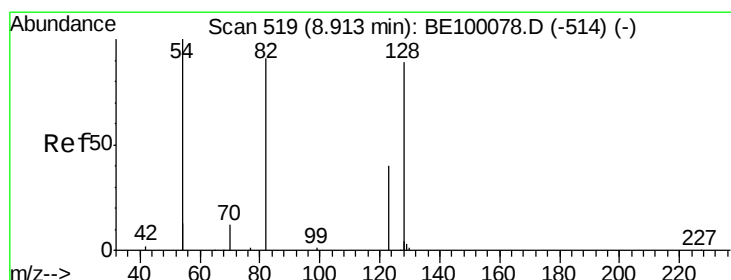
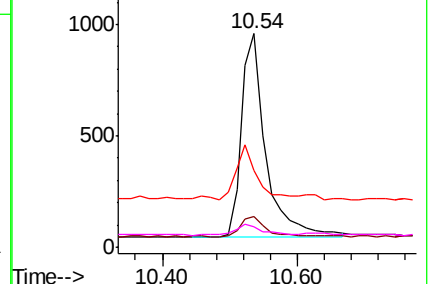
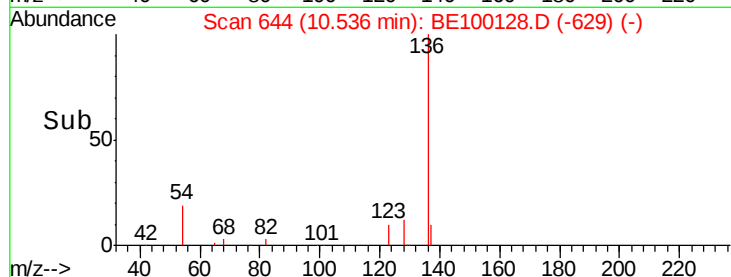


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.395 ng

RT: 8.90 min Scan# 518

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

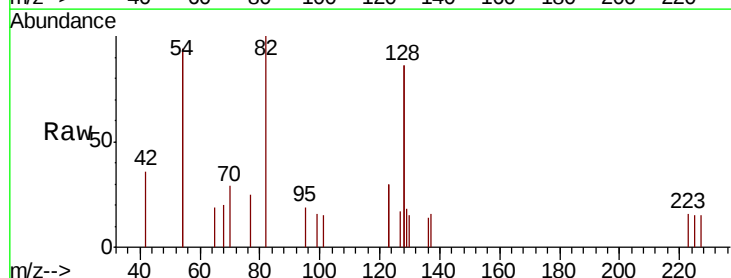
Tgt Ion: 82 Resp: 875

Ion Ratio Lower Upper

82 100

128 172.2 128.0 192.0

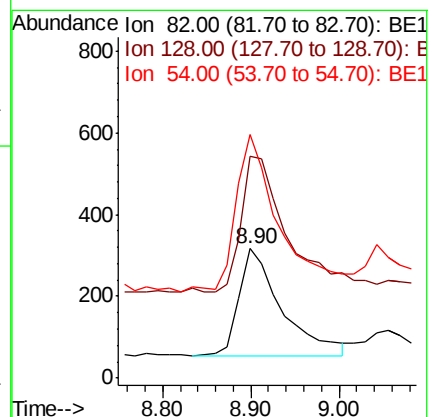
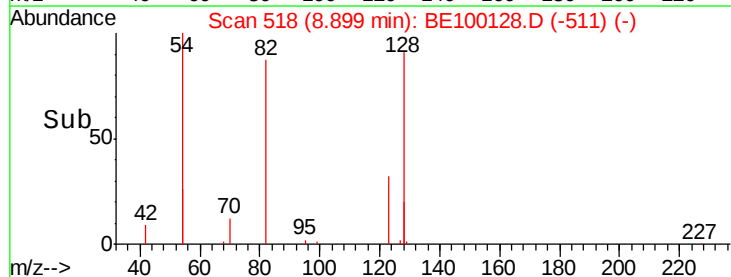
54 188.6 143.4 215.0

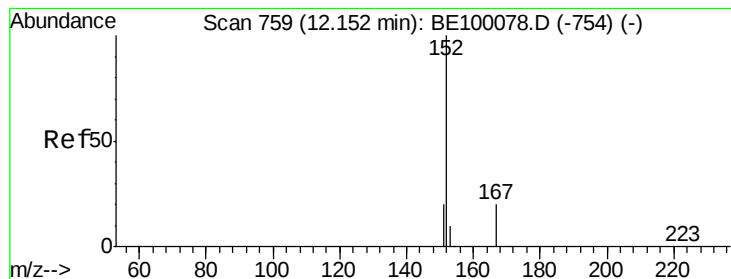


Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE1





#11

2-Methylnaphthalene-d10

Concen: 0.036 ng

RT: 12.14 min Scan# 758

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

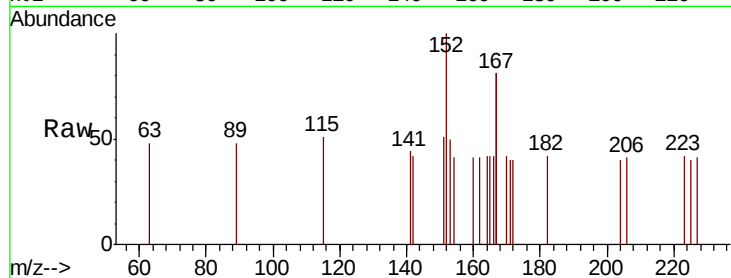
C-MW-9 061119

Tgt Ion:152 Resp: 156

Ion Ratio Lower Upper

152 100

151 25.0 16.3 24.5#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.14

100

80

60

40

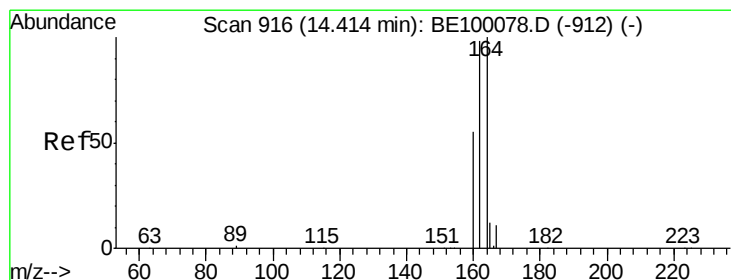
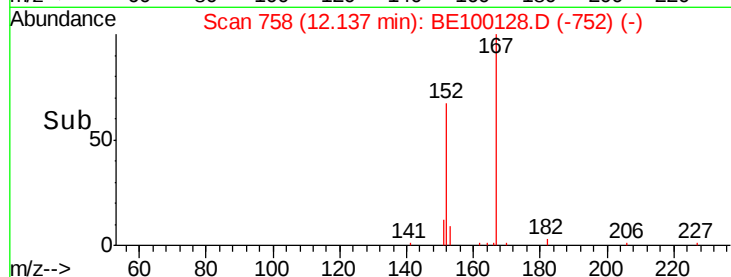
20

0

Time-->

12.10

12.20



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.41 min Scan# 916

Delta R.T. -0.00 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

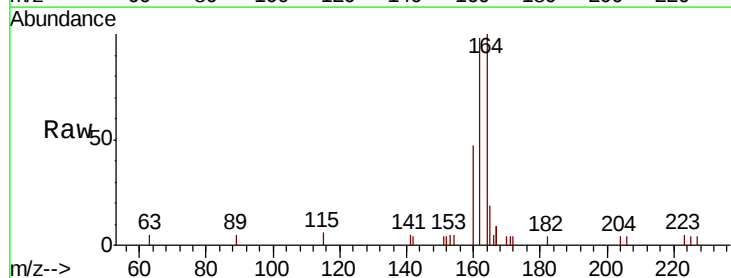
Tgt Ion:164 Resp: 2230

Ion Ratio Lower Upper

164 100

162 98.1 78.2 117.2

160 47.3 45.6 68.4



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

14.41

1500

1000

500

0

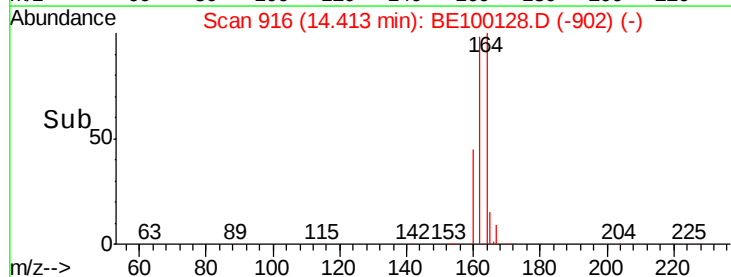
Time-->

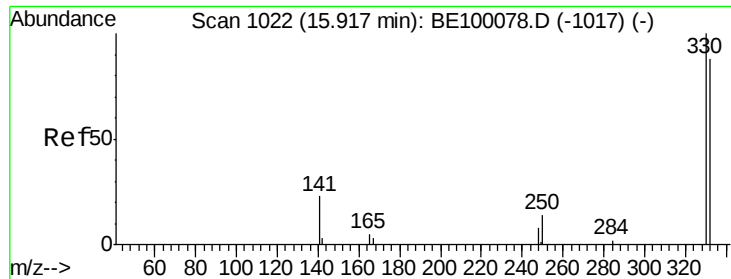
14.30

14.40

14.50

14.60

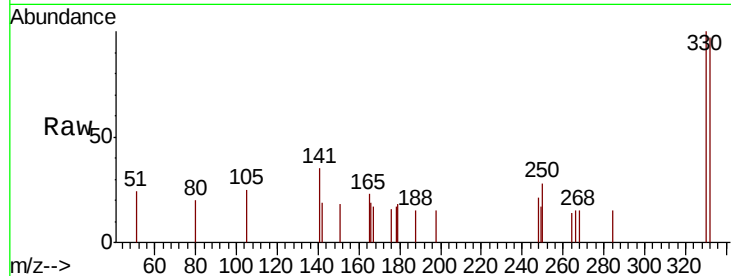




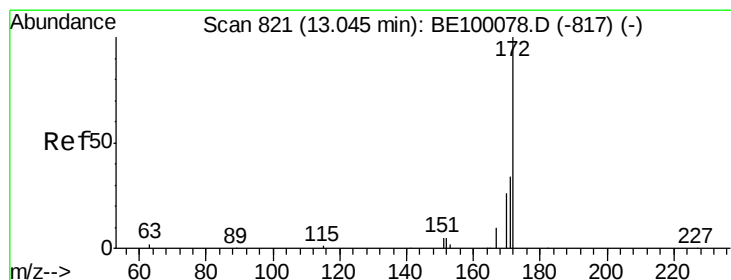
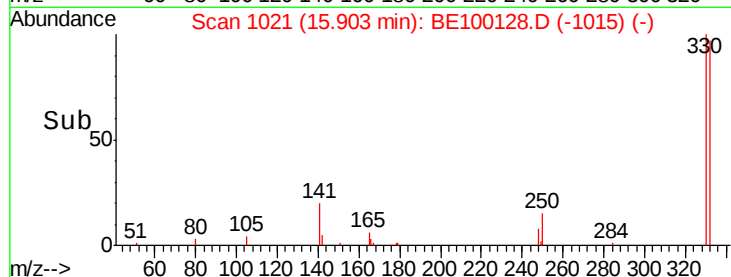
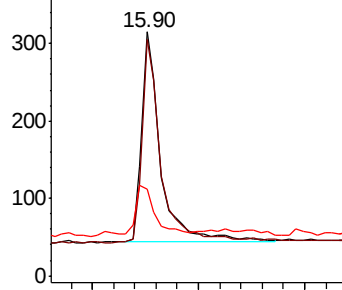
#14  
 2,4,6-Tribromophenol  
 Concen: 0.546 ng  
 RT: 15.90 min Scan# 1021  
 Delta R.T. -0.01 min  
 Lab File: BE100128.D  
 Acq: 21 Jun 2019 3:52

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C-MW-9\_061119

Tgt Ion: 330 Resp: 672  
 Ion Ratio Lower Upper  
 330 100  
 332 93.3 73.3 109.9  
 141 22.3 22.2 33.2

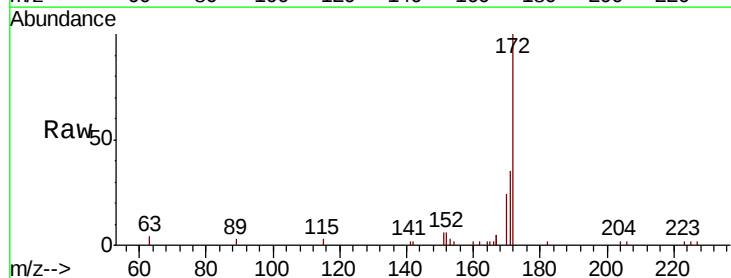


Abundance Ion 330.00 (329.70 to 330.70): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

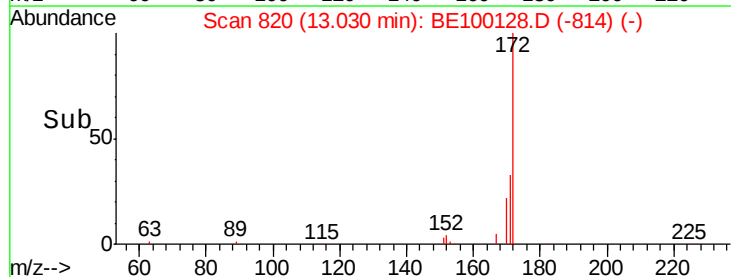
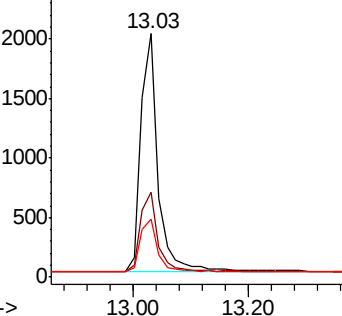


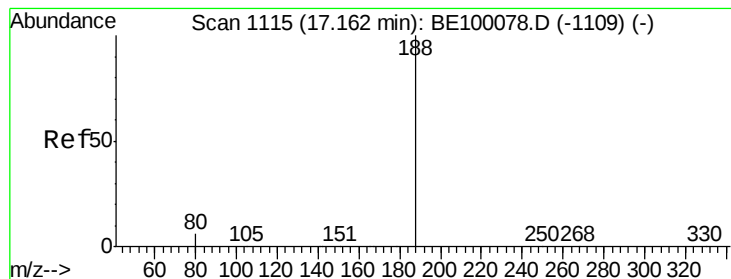
#15  
 2-Fluorobiphenyl  
 Concen: 0.474 ng  
 RT: 13.03 min Scan# 820  
 Delta R.T. -0.01 min  
 Lab File: BE100128.D  
 Acq: 21 Jun 2019 3:52

Tgt Ion: 172 Resp: 4156  
 Ion Ratio Lower Upper  
 172 100  
 171 34.9 29.8 44.8  
 170 23.6 23.2 34.8



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.15 min Scan# 1114

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9\_061119

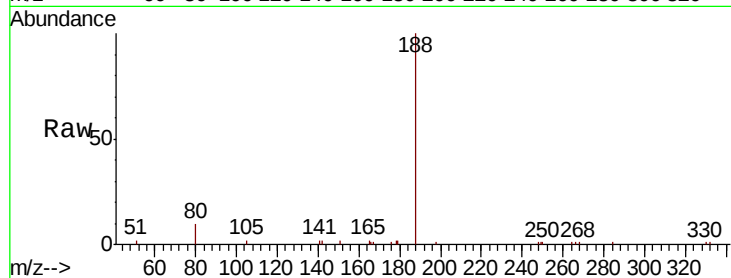
Tgt Ion:188 Resp: 7970

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

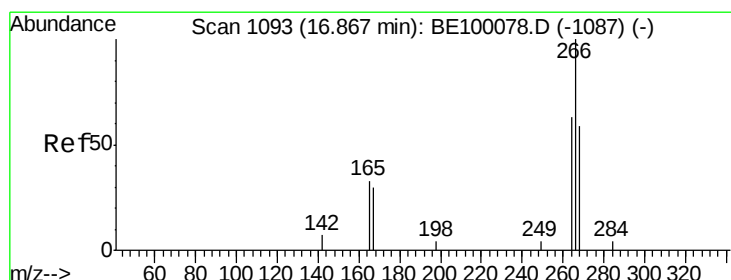
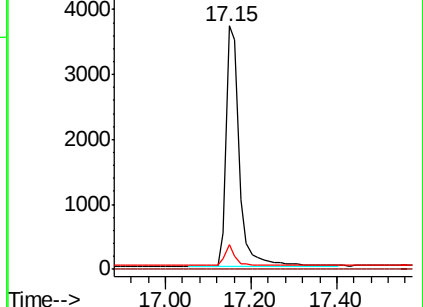
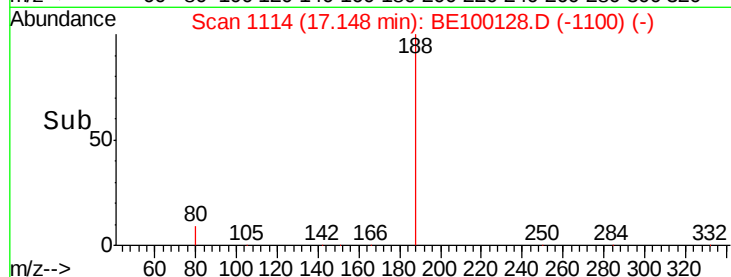
80 10.3 6.3 9.5#



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



#22

Pentachlorophenol

Concen: 0.248 ng

RT: 16.91 min Scan# 1096

Delta R.T. 0.04 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

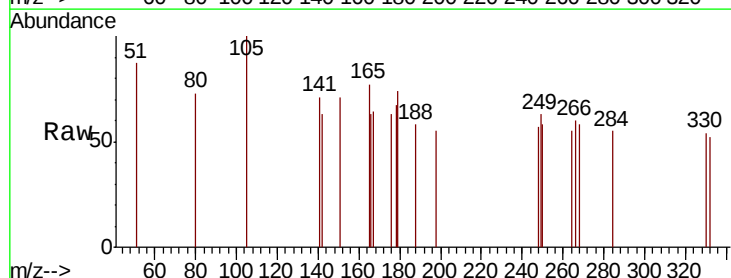
Tgt Ion:266 Resp: 9

Ion Ratio Lower Upper

266 100

264 92.0 67.8 101.6

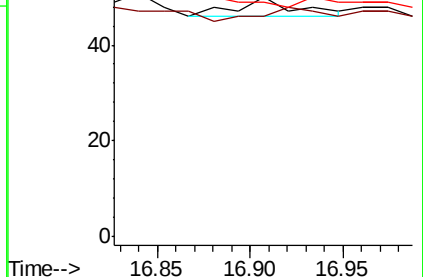
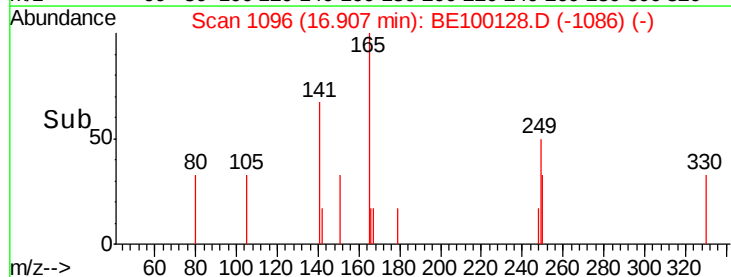
268 98.0 70.0 105.0

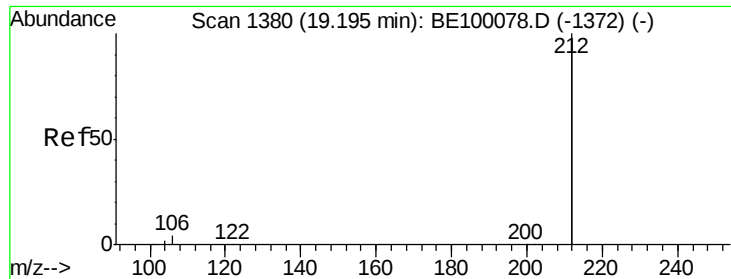


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Fluoranthene-d10

Concen: 0.035 ng

RT: 19.19 min Scan# 1379

Delta R.T. -0.00 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9\_061119

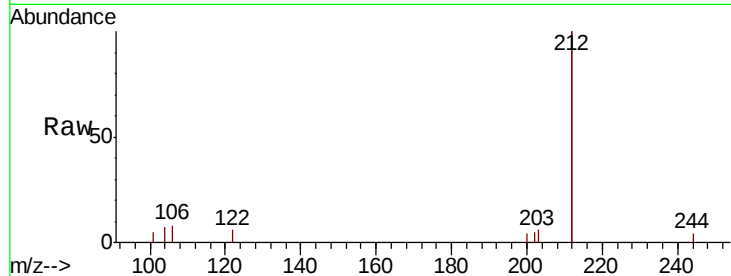
Tgt Ion:212 Resp: 3958

Ion Ratio Lower Upper

212 100

106 2.0 1.4 2.0#

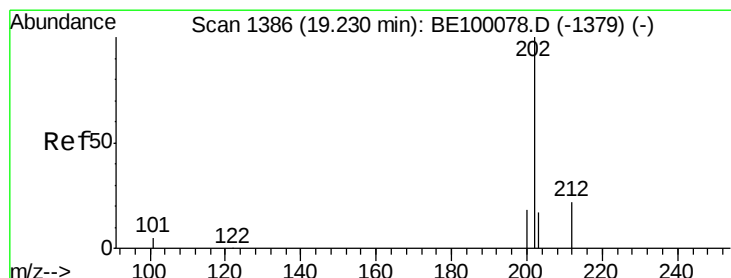
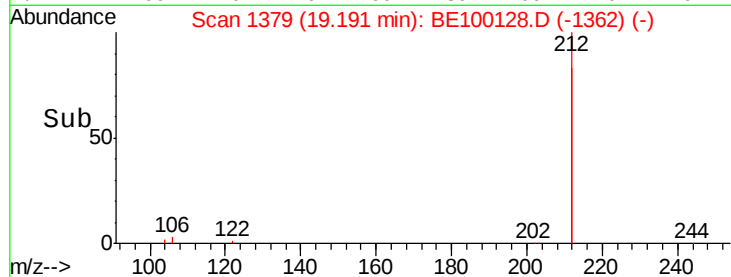
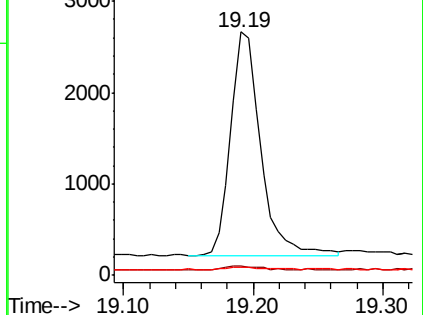
104 1.2 0.8 1.2#



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: 0.026 ng

RT: 19.22 min Scan# 1384

Delta R.T. -0.01 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

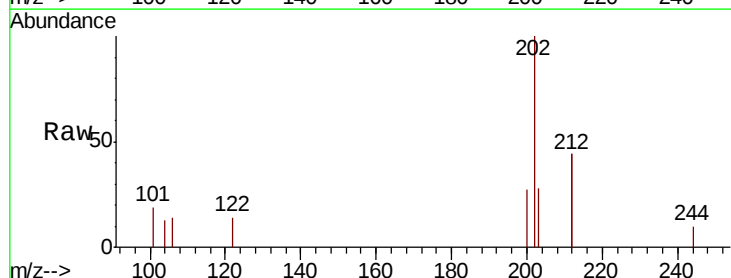
Tgt Ion:202 Resp: 794

Ion Ratio Lower Upper

202 100

101 9.1 5.0 7.4#

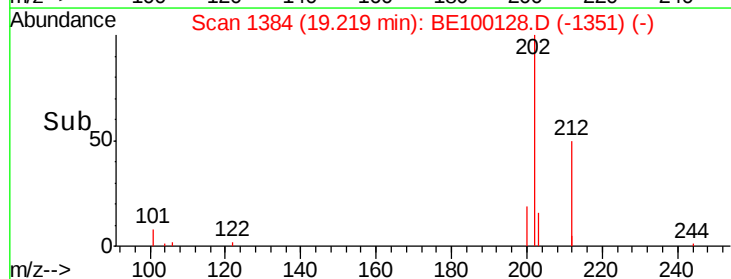
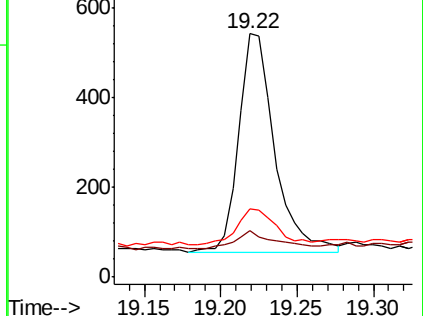
203 17.9 13.7 20.5

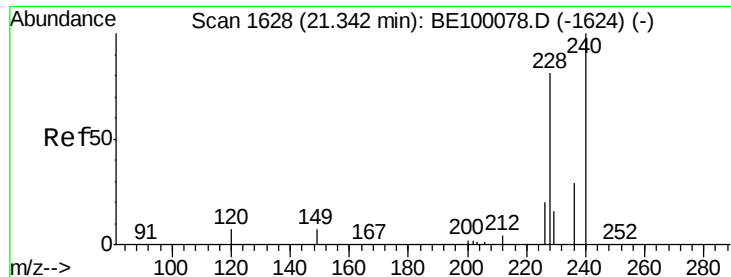


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.34 min Scan# 1628

Delta R.T. -0.00 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9 061119

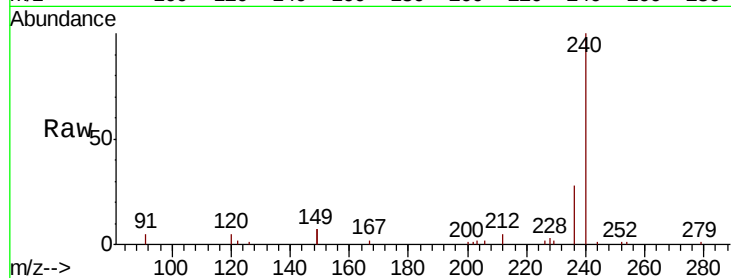
Tgt Ion:240 Resp: 10355

Ion Ratio Lower Upper

240 100

120 5.3 6.6 10.0#

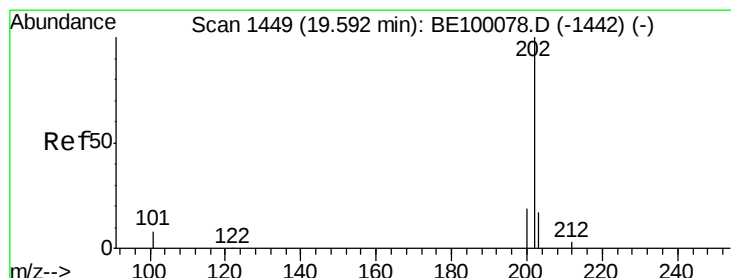
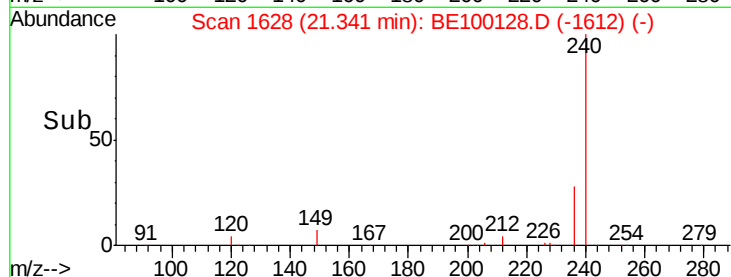
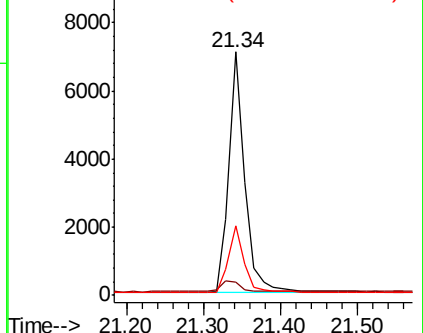
236 28.4 23.8 35.6



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: 0.026 ng

RT: 19.59 min Scan# 1448

Delta R.T. -0.00 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

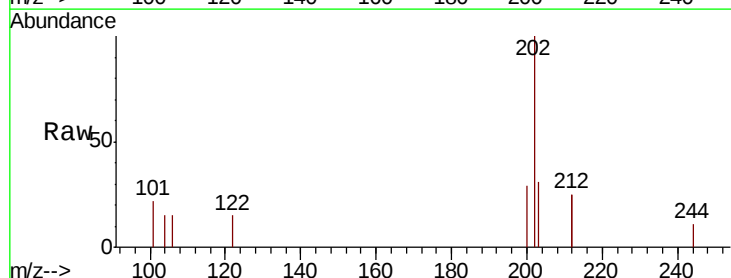
Tgt Ion:202 Resp: 681

Ion Ratio Lower Upper

202 100

200 20.3 15.6 23.4

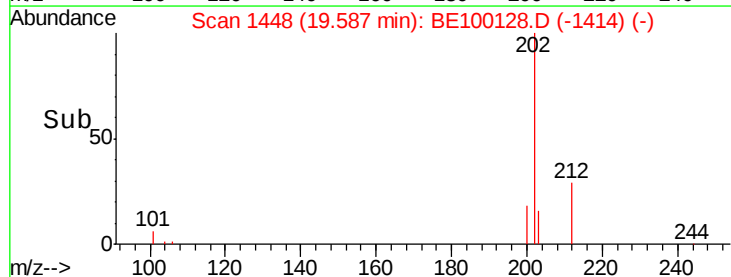
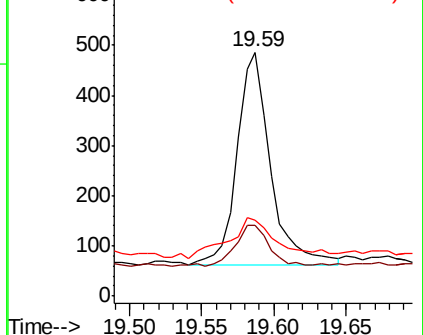
203 26.0 13.9 20.9#

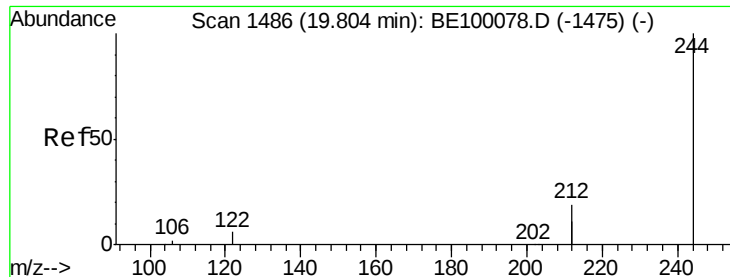


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.580 ng

RT: 19.79 min Scan# 1483

Delta R.T. -0.02 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9\_061119

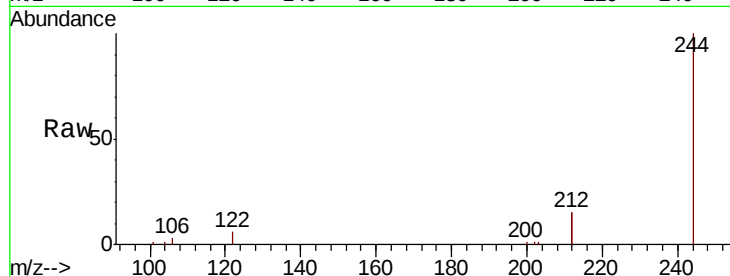
Tgt Ion:244 Resp: 12006

Ion Ratio Lower Upper

244 100

212 30.5 29.8 44.8

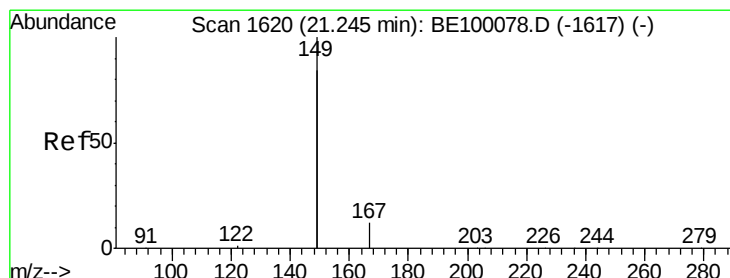
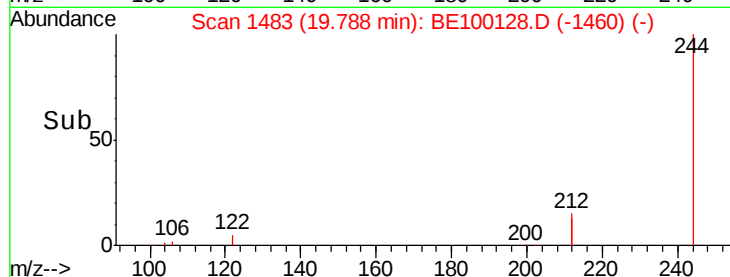
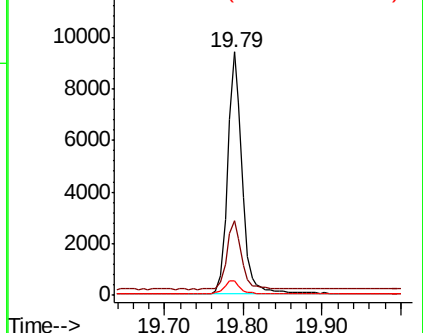
122 5.8 6.1 9.1#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.119 ng

RT: 21.24 min Scan# 1620

Delta R.T. -0.00 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

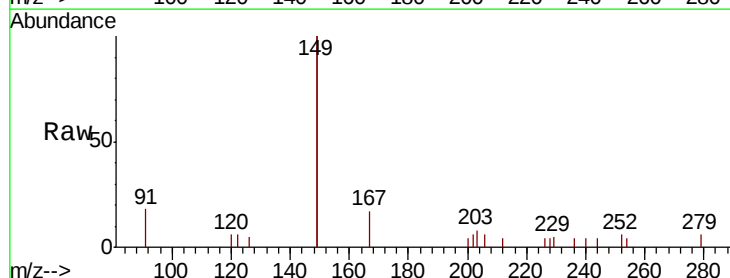
Tgt Ion:149 Resp: 3464

Ion Ratio Lower Upper

149 100

167 8.1 5.8 8.6

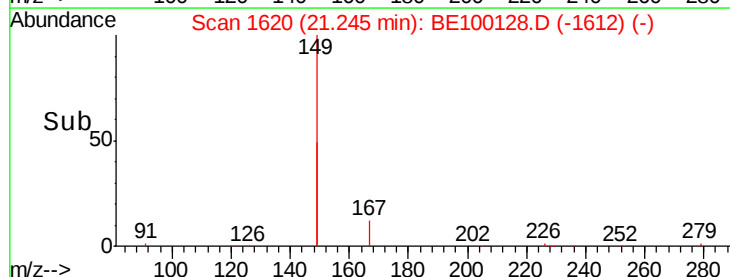
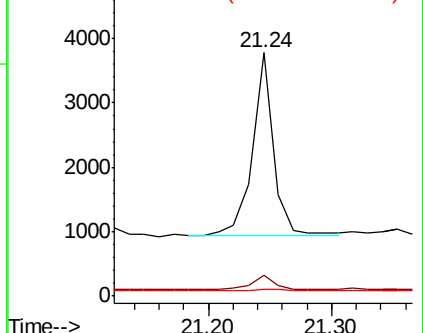
279 2.3 1.1 1.7#

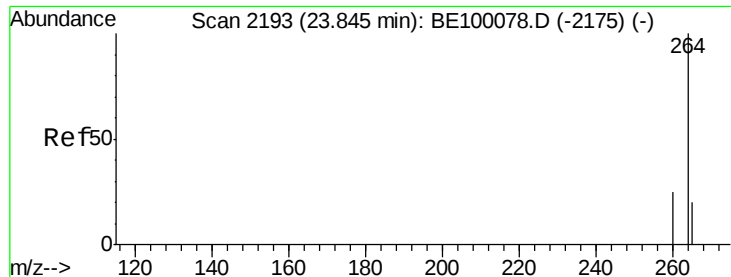


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



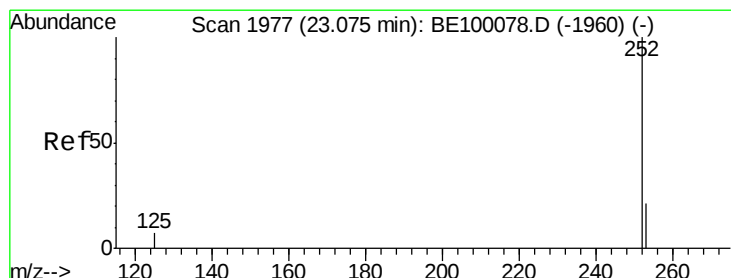
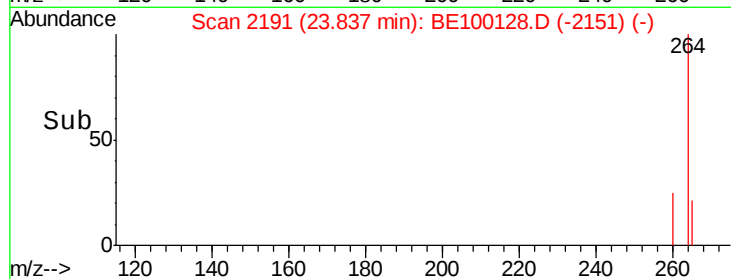
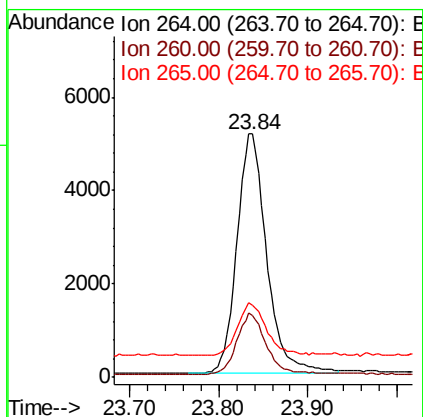
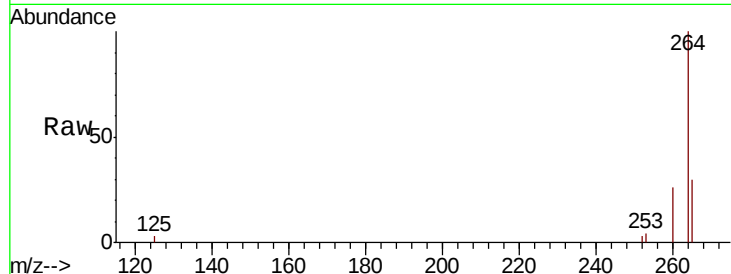


#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.84 min Scan# 2191  
Delta R.T. -0.01 min  
Lab File: BE100128.D  
Acq: 21 Jun 2019 3:52

Instrument :  
BNA\_E  
ClientSampleId :  
C-MW-9\_061119

Tgt Ion: 264 Resp: 11928  

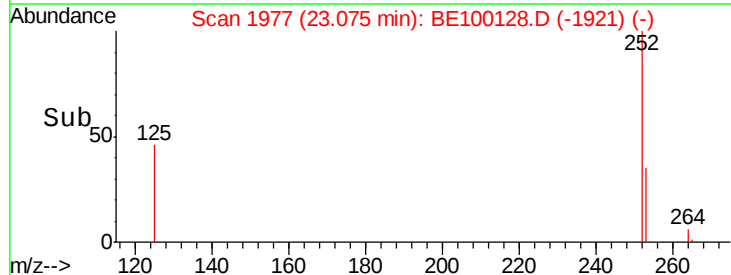
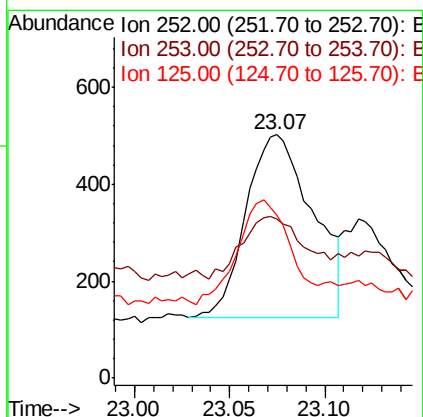
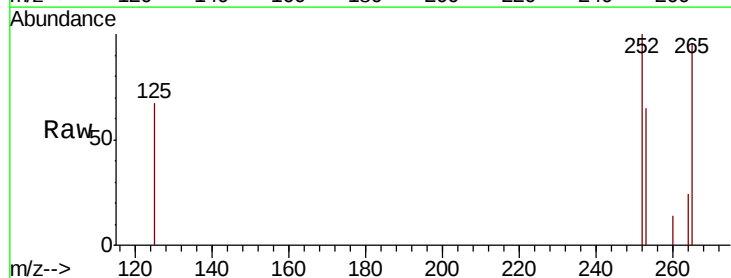
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.6  | 20.8  | 31.2  |
| 265 | 29.8  | 23.2  | 34.8  |

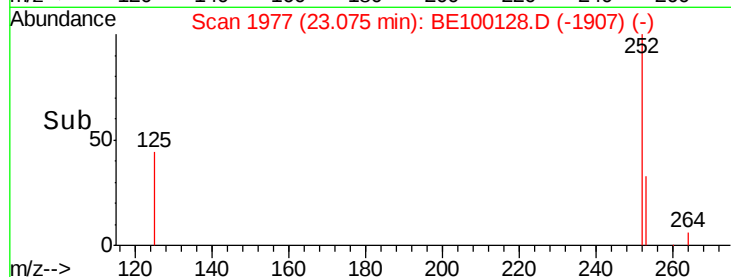
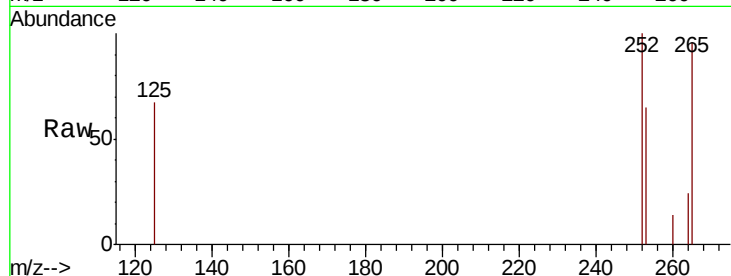
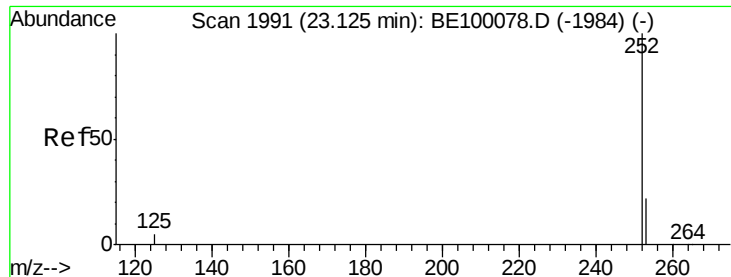


#35  
Benzo(b)fluoranthene  
Concen: 0.027 ng  
RT: 23.07 min Scan# 1977  
Delta R.T. -0.00 min  
Lab File: BE100128.D  
Acq: 21 Jun 2019 3:52

Tgt Ion: 252 Resp: 929  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 65.1  | 18.4  | 27.6# |
| 125 | 67.1  | 6.4   | 9.6#  |





#36

Benzo(k)fluoranthene

Concen: 0.023 ng

RT: 23.07 min Scan# 1977

Delta R.T. -0.05 min

Lab File: BE100128.D

Acq: 21 Jun 2019 3:52

Instrument :

BNA\_E

ClientSampleId :

C-MW-9\_061119

Tgt Ion: 252 Resp: 929

Ion Ratio Lower Upper

252 100

253 65.1 18.9 28.3#

125 67.1 5.3 7.9#

