

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE111618\  
 Data File : BE098233.D  
 Acq On : 16 Nov 2018 17:16  
 Operator : SJ/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Nov 16 17:47:20 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE111618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 16 17:10:30 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1356     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.67 | 136  | 6791     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 4345     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 9954     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 10763    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.02 | 264  | 10058    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.45  | 112 | 2790  | 0.73 | ng | -0.01 |
| 5) Phenol-d6                | 7.03  | 99  | 4507  | 0.73 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 9.02  | 82  | 4934  | 0.73 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 9189  | 0.77 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330 | 1166  | 0.62 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 14162 | 0.78 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.31 | 212 | 94271 | 0.76 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.91 | 244 | 19016 | 0.78 | ng | 0.00  |

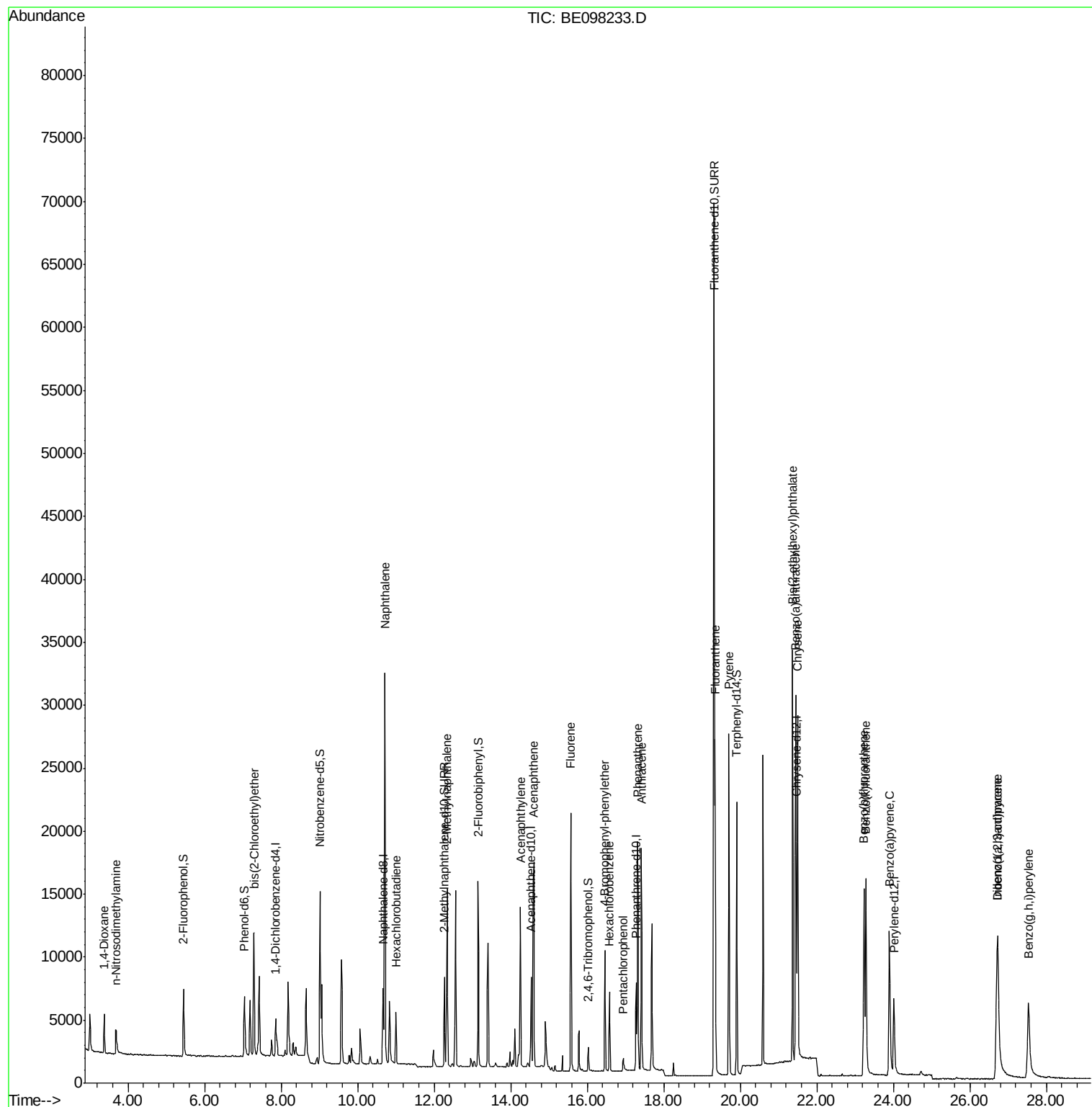
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.37  | 88  | 1722  | 0.781  | ng | 89   |
| 3) n-Nitrosodimethylamine      | 3.68  | 42  | 1970  | 0.740  | ng | # 85 |
| 6) bis(2-Chloroethyl)ether     | 7.29  | 93  | 3838  | 0.773  | ng | 100  |
| 9) Naphthalene                 | 10.72 | 128 | 53195 | 0.770  | ng | 99   |
| 10) Hexachlorobutadiene        | 11.00 | 225 | 3086  | 0.719  | ng | 98   |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 9513  | 0.794  | ng | 92   |
| 16) Acenaphthylene             | 14.26 | 152 | 16228 | 0.815  | ng | 99   |
| 17) Acenaphthene               | 14.60 | 154 | 9679  | 0.796  | ng | 99   |
| 18) Fluorene                   | 15.57 | 166 | 12301 | 0.790  | ng | 100  |
| 20) 4-Bromophenyl-phenylether  | 16.47 | 248 | 4861  | 0.801  | ng | 91   |
| 21) Hexachlorobenzene          | 16.58 | 284 | 4878  | 0.773  | ng | 98   |
| 22) Pentachlorophenol          | 16.94 | 266 | 761   | 0.694  | ng | 93   |
| 23) Phenanthrene               | 17.32 | 178 | 19763 | 0.797  | ng | 100  |
| 24) Anthracene                 | 17.41 | 178 | 18432 | 0.798  | ng | 98   |
| 26) Fluoranthene               | 19.34 | 202 | 23993 | 0.782  | ng | 98   |
| 28) Pyrene                     | 19.70 | 202 | 24538 | 0.828  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.45 | 228 | 24145 | 0.790  | ng | 99   |
| 31) Chrysene                   | 21.50 | 228 | 25081 | 0.808  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 36216 | 0.570  | ng | 100  |
| 33) Indeno(1,2,3-cd)pyrene     | 26.70 | 276 | 22100 | 0.776  | ng | # 91 |
| 35) Benzo(b)fluoranthene       | 23.23 | 252 | 22288 | 0.781  | ng | 96   |
| 36) Benzo(k)fluoranthene       | 23.28 | 252 | 24728 | 0.821  | ng | 100  |
| 37) Benzo(a)pyrene             | 23.90 | 252 | 21764 | 0.795  | ng | 98   |
| 38) Dibenzo(a,h)anthracene     | 26.74 | 278 | 17575 | 0.754  | ng | # 92 |
| 39) Benzo(g,h,i)perylene       | 27.53 | 276 | 19147 | 0.787  | ng | 97   |

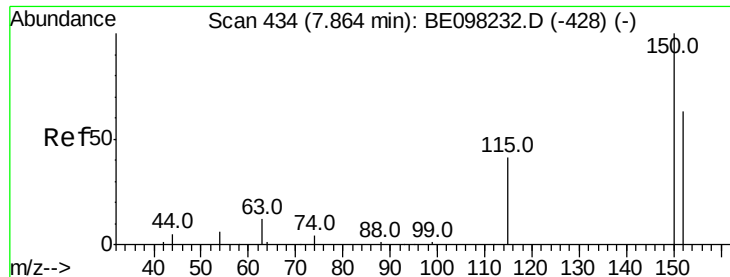
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 16 17:10:30 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.86 min Scan# 434

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

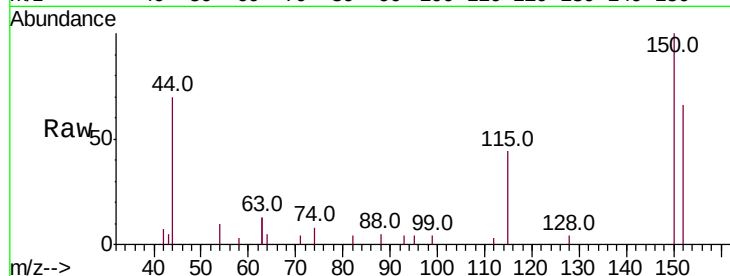
Tot Ion:152 Resp: 1356

Ion Ratio Lower Upper

152 100

150 151.6 127.5 191.3

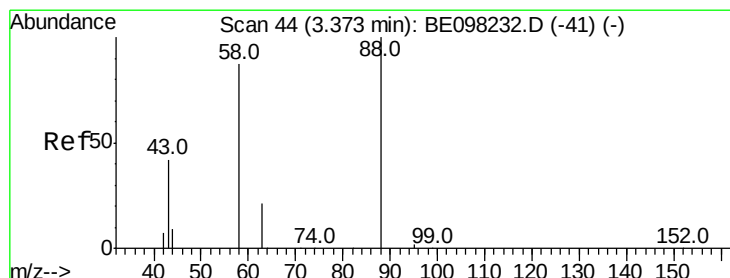
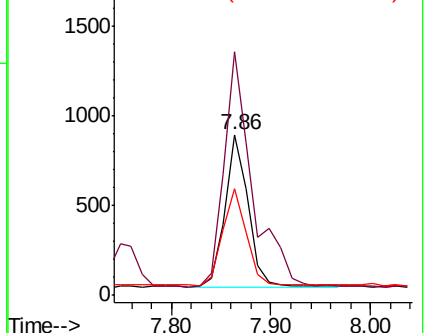
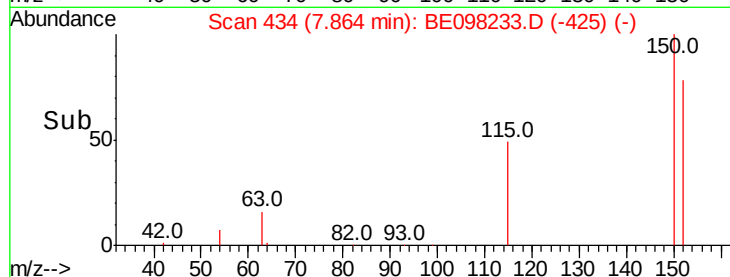
115 66.3 60.3 90.5



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: 0.781 ng

RT: 3.37 min Scan# 44

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

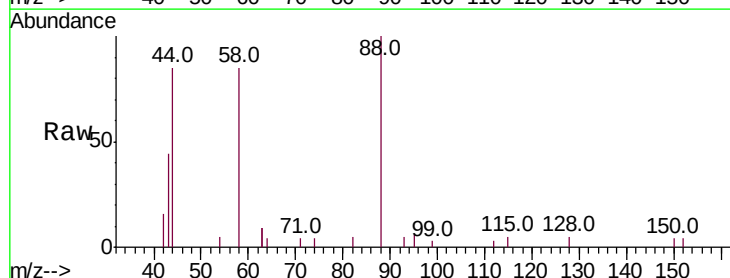
Tgt Ion: 88 Resp: 1722

Ion Ratio Lower Upper

88 100

58 87.9 79.0 118.4

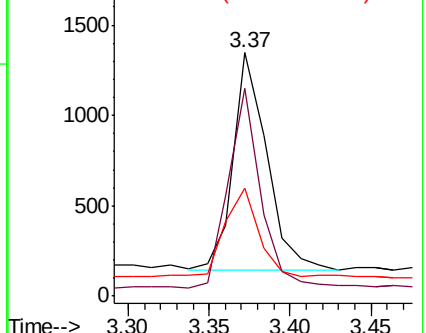
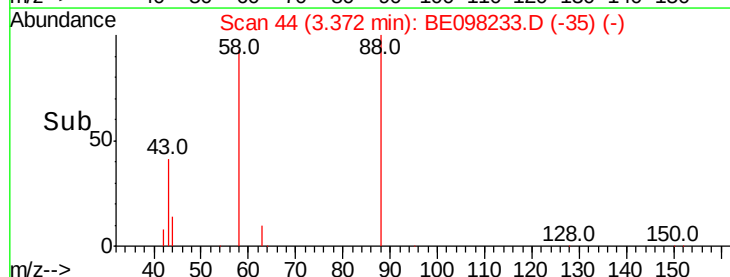
43 40.4 38.1 57.1

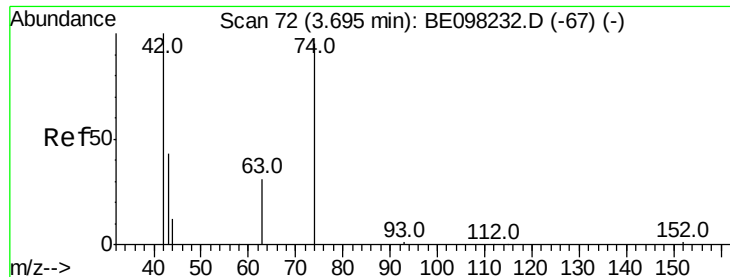


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



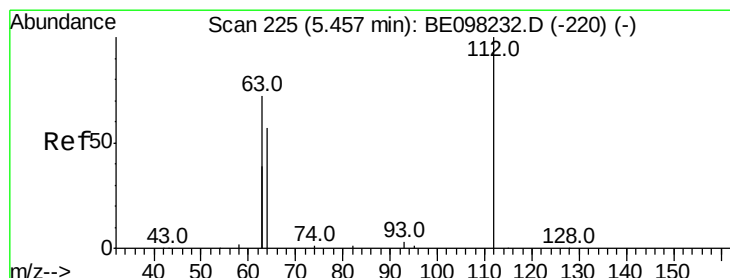
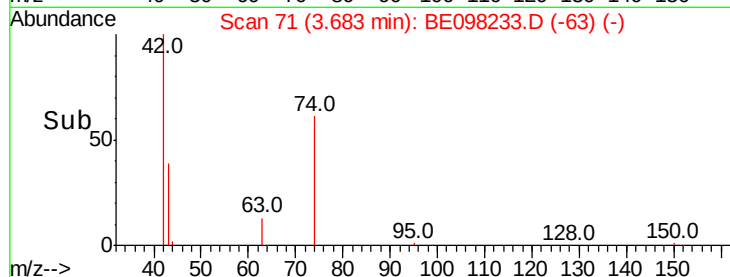
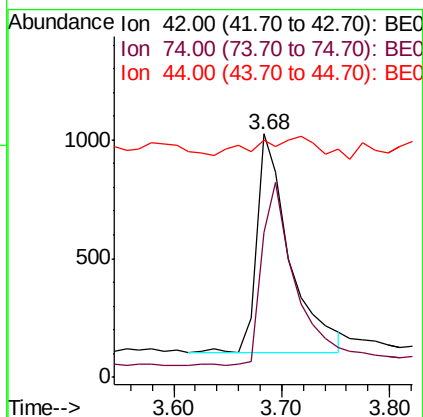
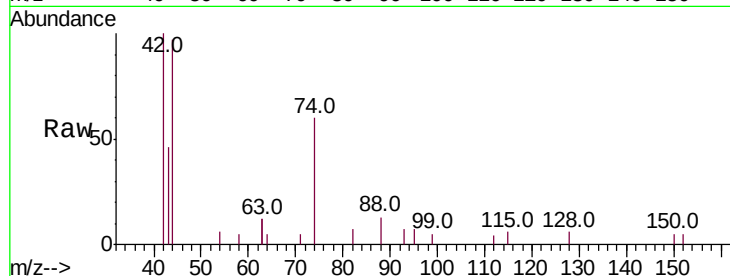


#3

n-Nitrosodimethylamine  
 Concen: 0.740 ng  
 RT: 3.68 min Scan# 71  
 Delta R.T. -0.01 min  
 Lab File: BE098233.D  
 Acq: 16 Nov 2018 17:16

Instrument :  
 BNA\_E  
 ClientSampleId :

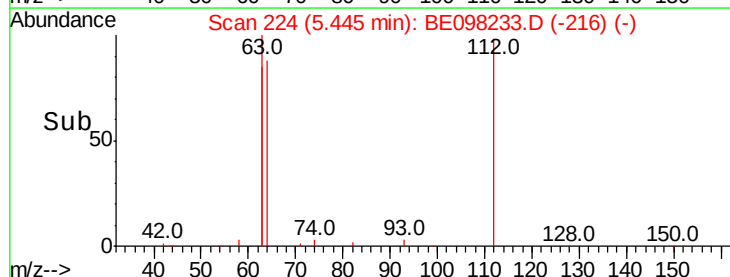
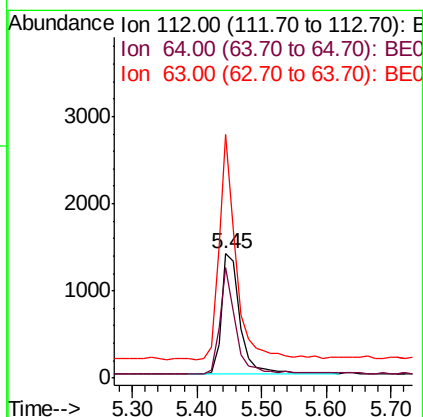
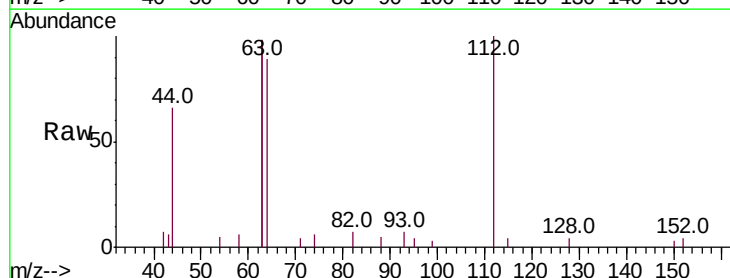
Tot Ion: 42 Resp: 1970  
 Ion Ratio Lower Upper  
 42 100  
 74 85.0 61.7 92.5  
 44 0.0 14.0 21.0#

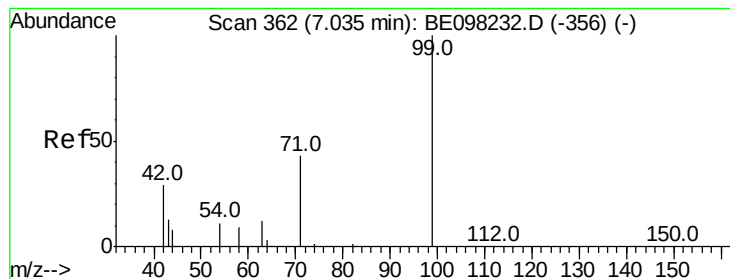


#4

2-Fluorophenol  
 Concen: 0.729 ng  
 RT: 5.45 min Scan# 224  
 Delta R.T. -0.01 min  
 Lab File: BE098233.D  
 Acq: 16 Nov 2018 17:16

Tgt Ion: 112 Resp: 2790  
 Ion Ratio Lower Upper  
 112 100  
 64 77.0 61.7 92.5  
 63 165.7 136.2 204.2





#5

Phenol-d6

Concen: 0.733 ng

RT: 7.03 min Scan# 362

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

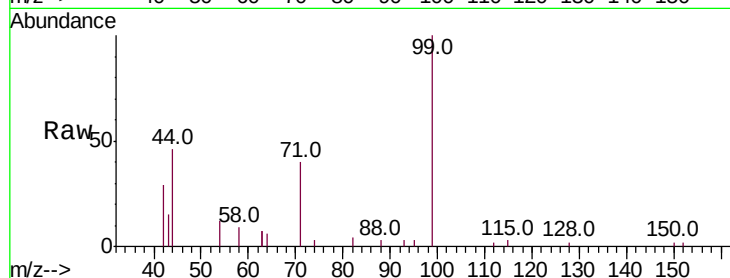
Tot Ion: 99 Resp: 4507

Ion Ratio Lower Upper

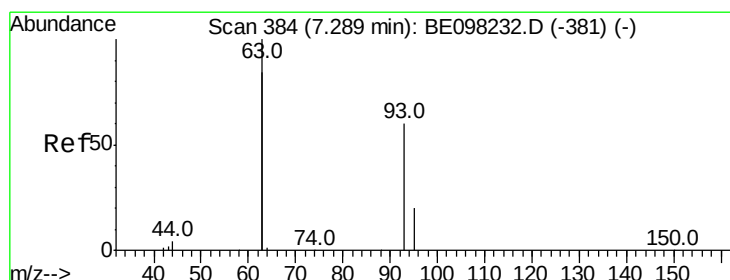
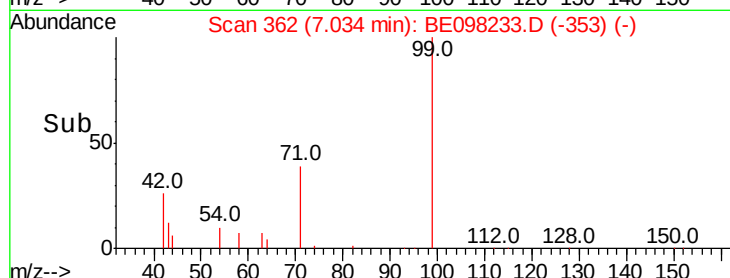
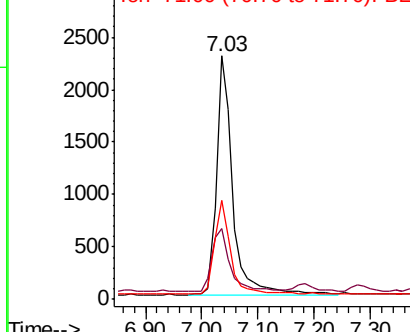
99 100

42 28.9 27.1 40.7

71 39.3 37.0 55.6



Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.773 ng

RT: 7.29 min Scan# 384

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

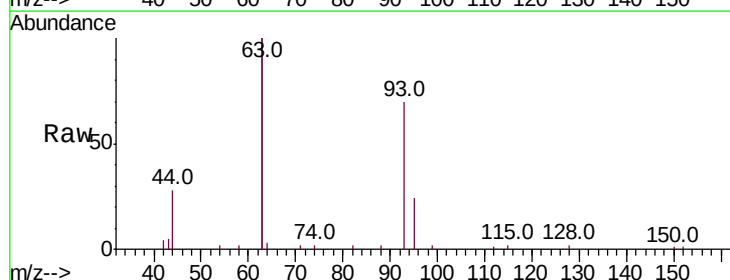
Tgt Ion: 93 Resp: 3838

Ion Ratio Lower Upper

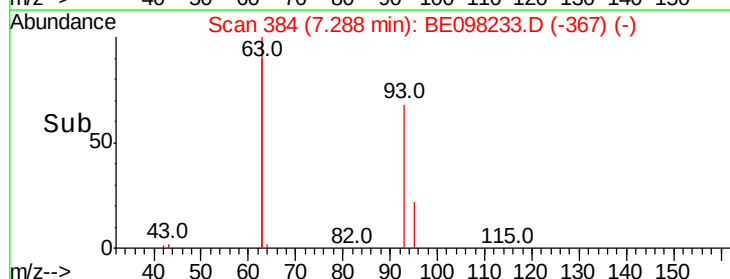
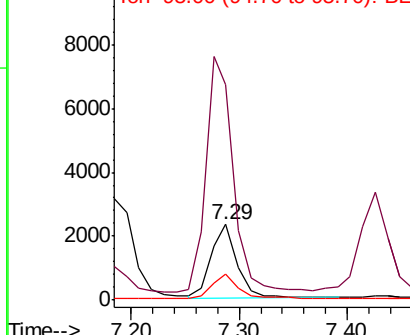
93 100

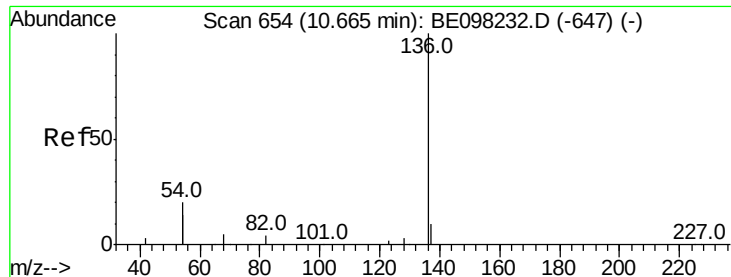
63 340.2 272.6 409.0

95 33.0 27.1 40.7



Abundance Ion 93.00 (92.70 to 93.70): BE0  
Ion 63.00 (62.70 to 63.70): BE0  
Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 6791

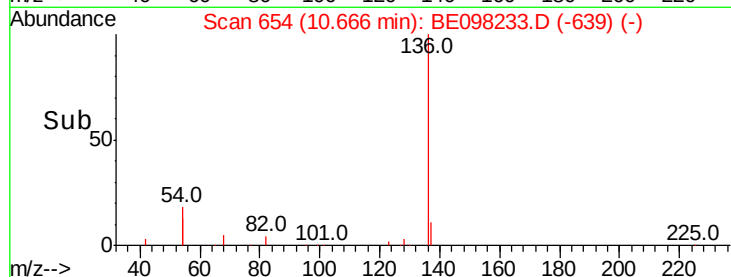
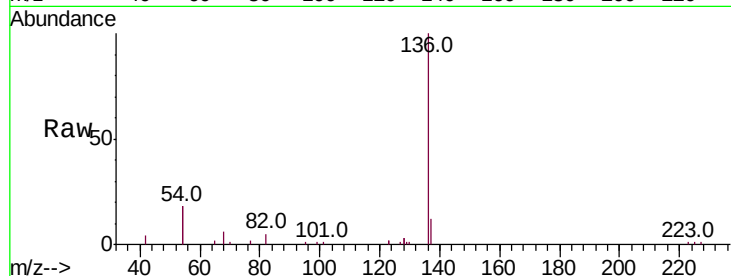
Ion Ratio Lower Upper

136 100

137 11.7 9.5 14.3

54 36.6 31.3 46.9

68 6.4 4.8 7.2

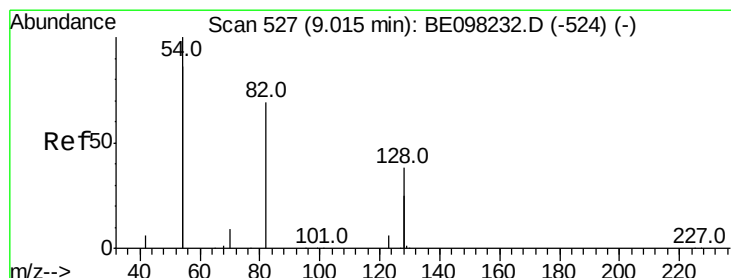
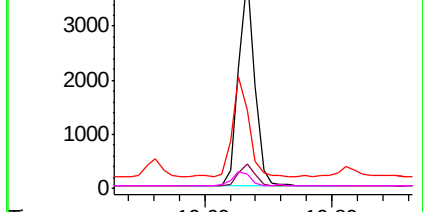


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.728 ng

RT: 9.02 min Scan# 527

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

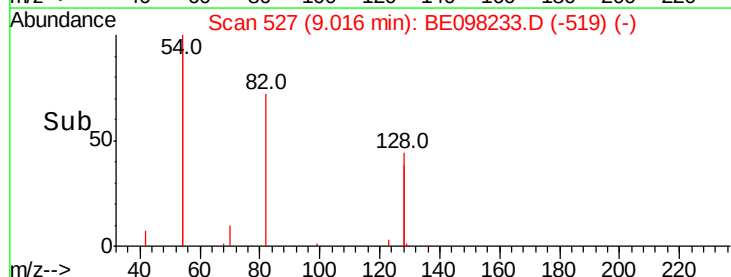
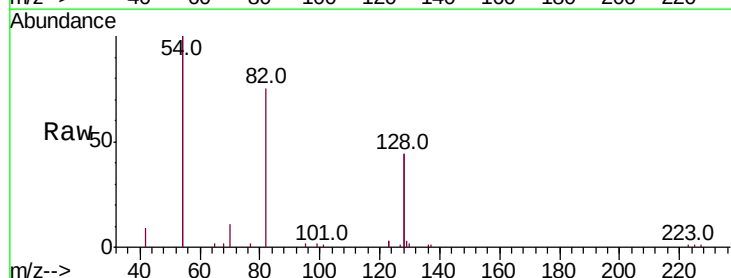
Tgt Ion: 82 Resp: 4934

Ion Ratio Lower Upper

82 100

128 118.0 96.1 144.1

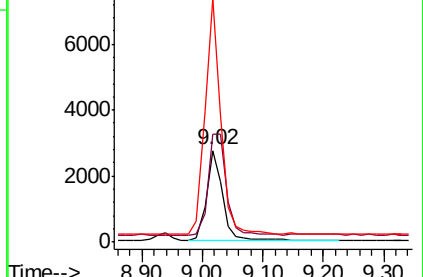
54 266.7 232.0 348.0

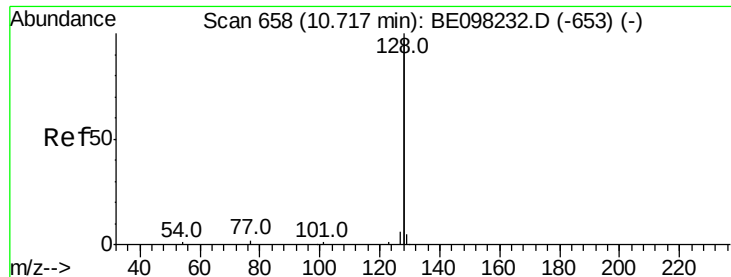


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.770 ng

RT: 10.72 min Scan# 658

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

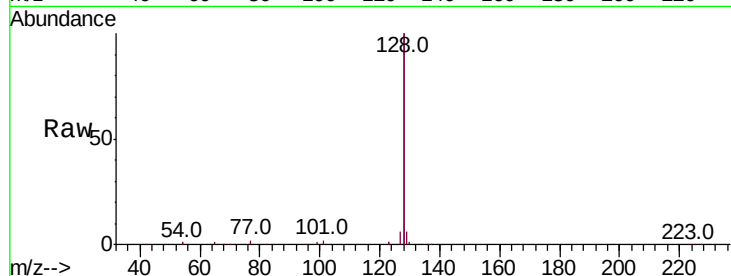
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:128 Resp: 53195

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 3.0   | 2.6   | 4.0   |
| 127 | 3.2   | 2.8   | 4.2   |

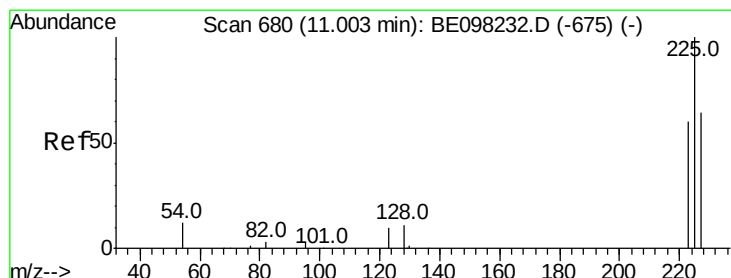
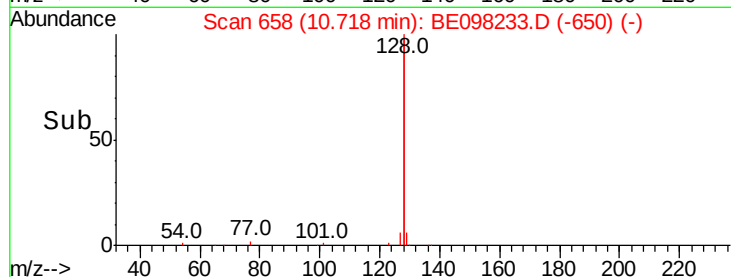
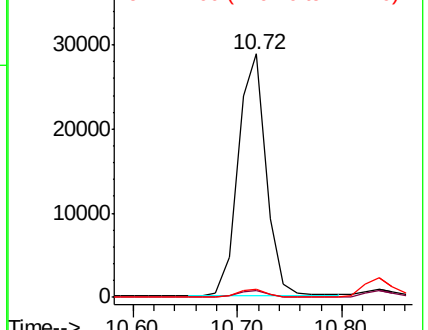


Abundance

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: 0.719 ng

RT: 11.00 min Scan# 680

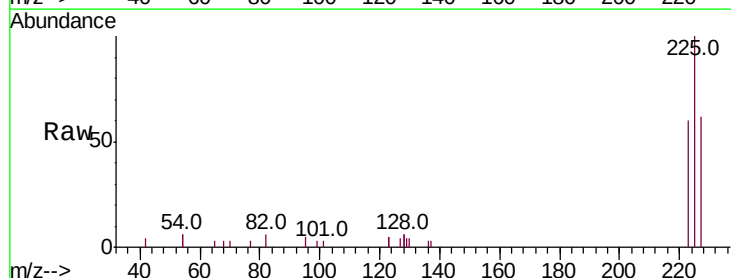
Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Tgt Ion:225 Resp: 3086

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 60.6  | 50.5  | 75.7  |
| 227 | 61.8  | 50.3  | 75.5  |

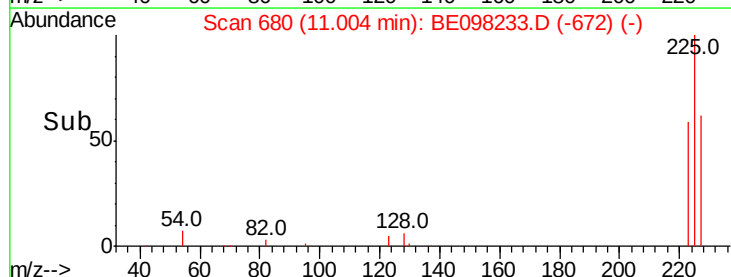
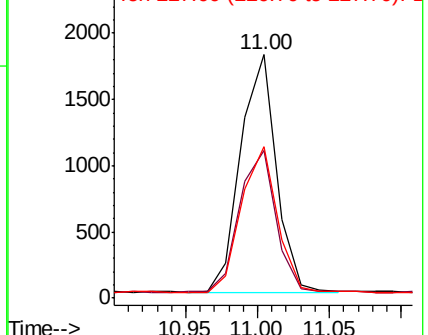


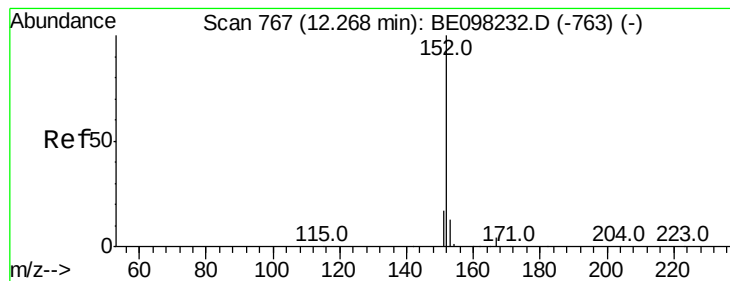
Abundance

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: 0.771 ng

RT: 12.27 min Scan# 767

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

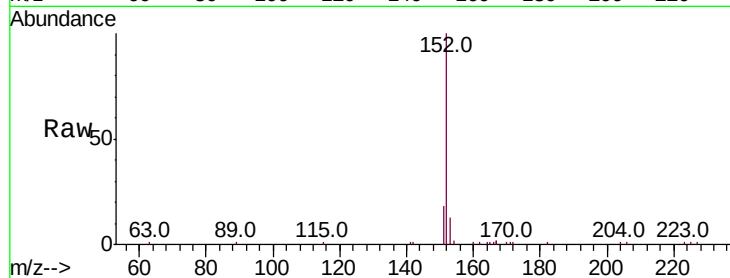
ClientSampleId :

Tot Ion:152 Resp: 9189

Ion Ratio Lower Upper

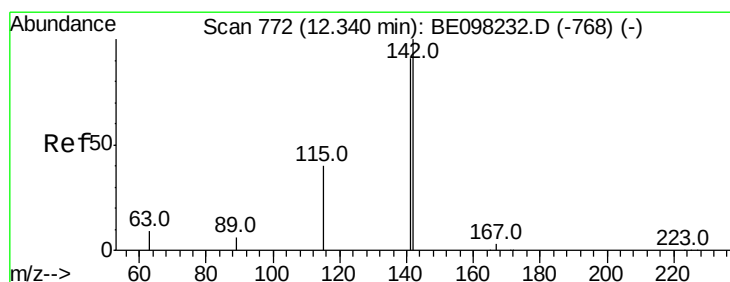
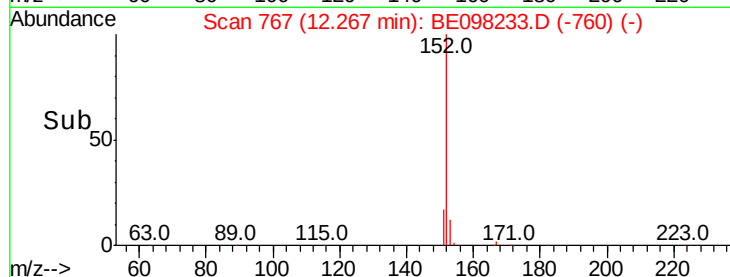
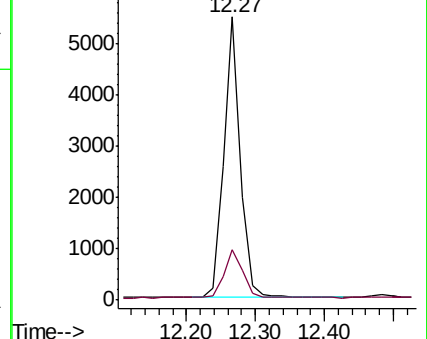
152 100

151 19.4 15.4 23.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.794 ng

RT: 12.34 min Scan# 772

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

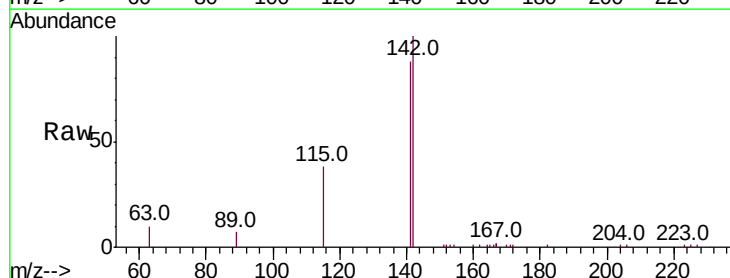
Tgt Ion:142 Resp: 9513

Ion Ratio Lower Upper

142 100

141 87.8 76.3 114.5

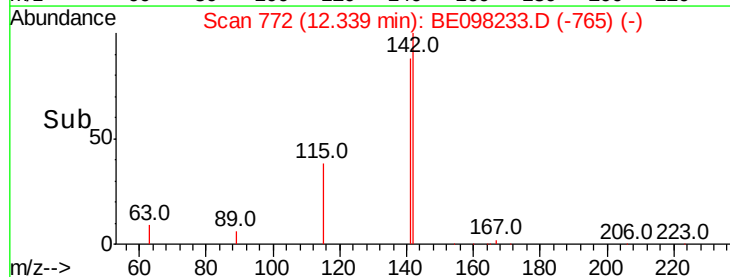
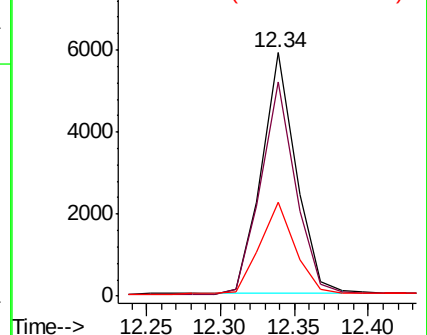
115 38.4 35.8 53.8



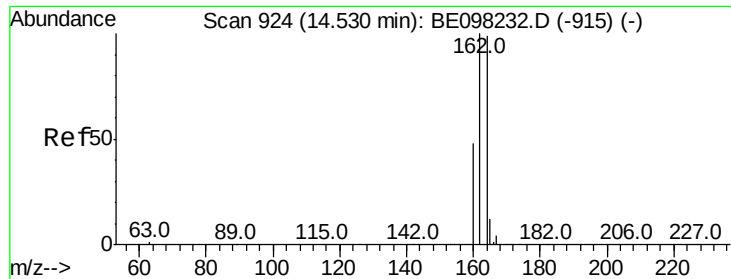
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



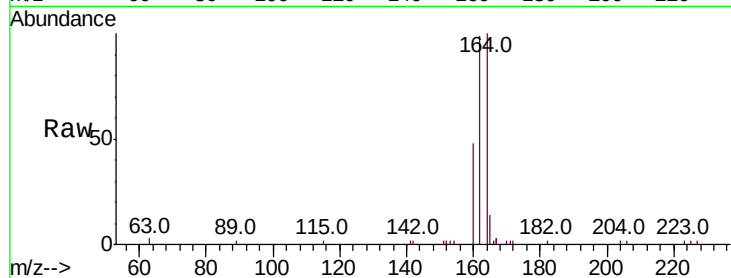




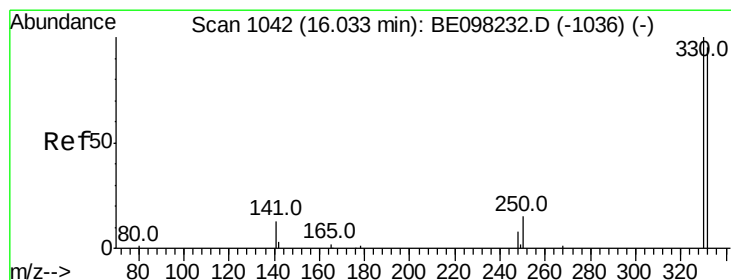
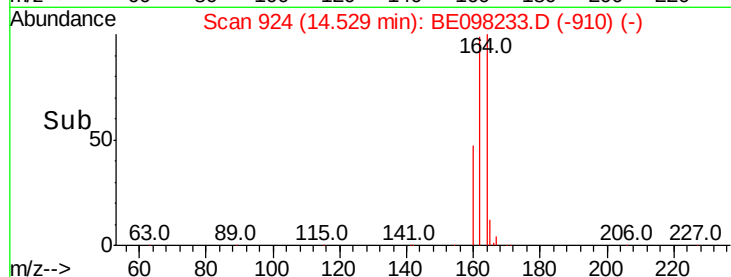
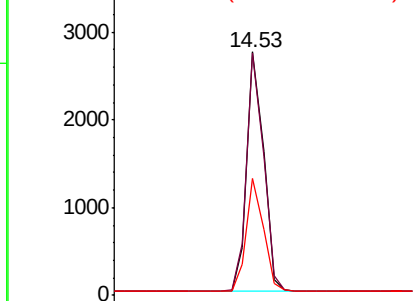
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.53 min Scan# 924  
 Delta R.T. -0.00 min  
 Lab File: BE098233.D  
 Acq: 16 Nov 2018 17:16

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:164 Resp: 4345  
 Ion Ratio Lower Upper  
 164 100  
 162 99.5 81.8 122.6  
 160 48.1 39.4 59.0

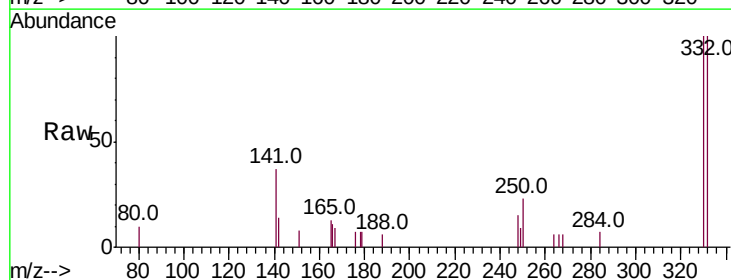


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

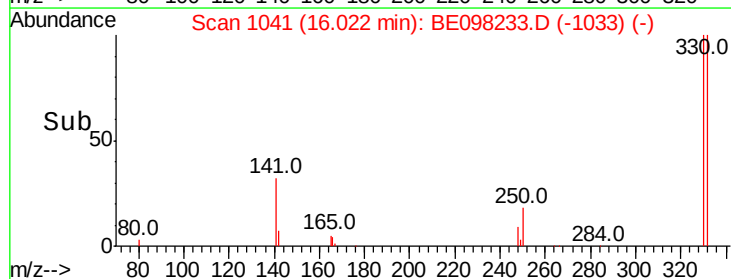
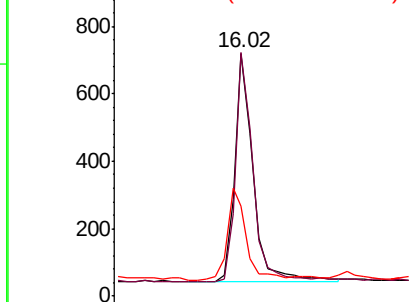


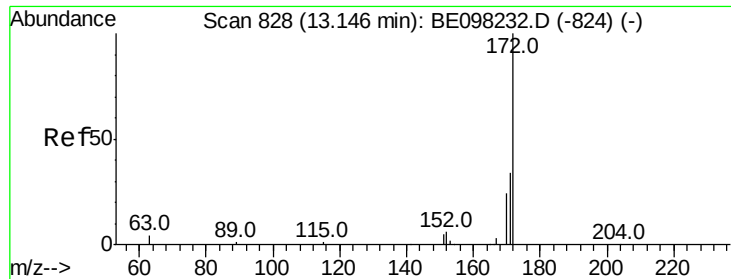
#14  
 2,4,6-Tribromophenol  
 Concen: 0.615 ng  
 RT: 16.02 min Scan# 1041  
 Delta R.T. -0.01 min  
 Lab File: BE098233.D  
 Acq: 16 Nov 2018 17:16

Tgt Ion:330 Resp: 1166  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.7 116.5  
 141 41.0 33.6 50.4



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

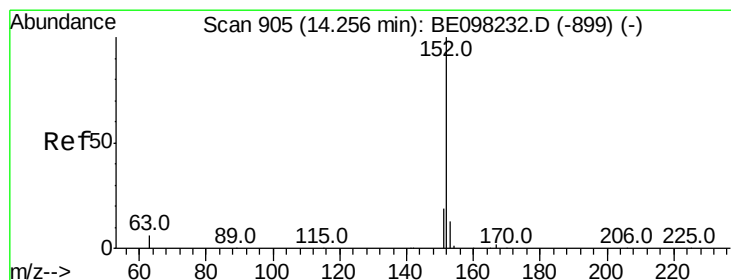
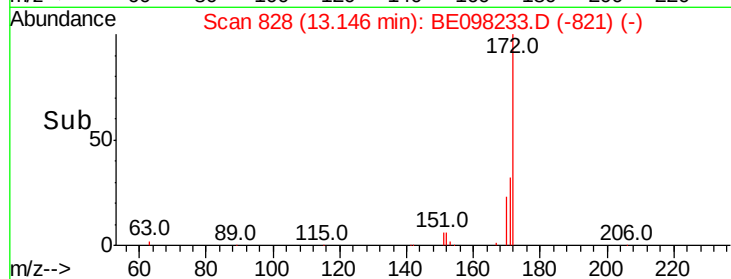
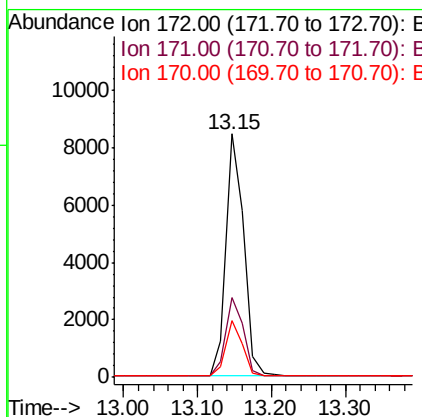
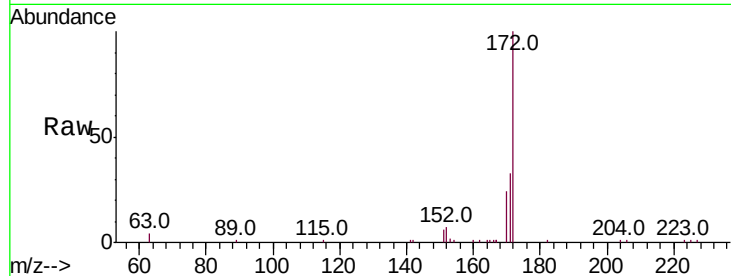




#15  
2-Fluorobiphenyl  
Concen: 0.778 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098233.D  
Acq: 16 Nov 2018 17:16

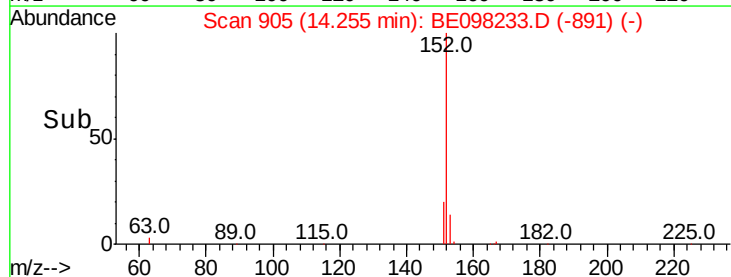
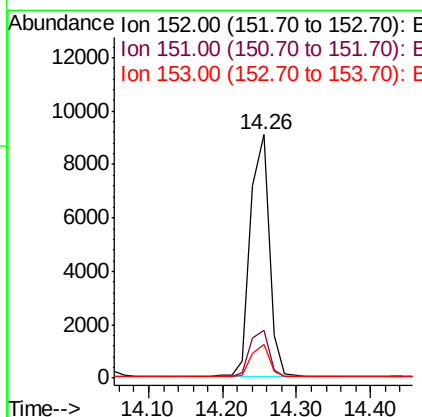
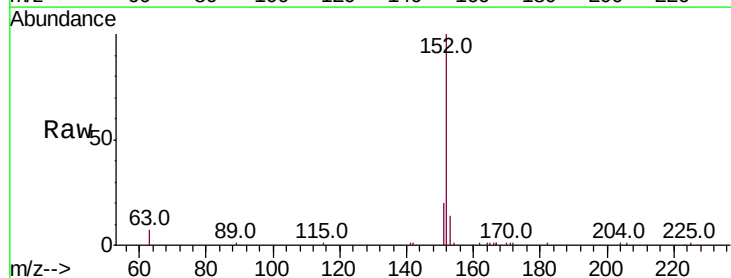
Instrument :  
BNA\_E  
ClientSampleId :

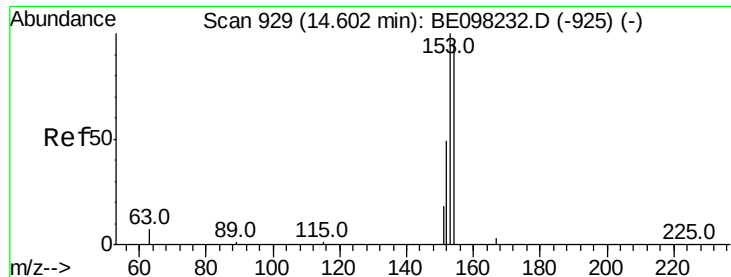
Tot Ion:172 Resp: 14162  
Ion Ratio Lower Upper  
172 100  
171 33.0 27.3 40.9  
170 23.6 19.4 29.0



#16  
Acenaphthylene  
Concen: 0.815 ng  
RT: 14.26 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BE098233.D  
Acq: 16 Nov 2018 17:16

Tgt Ion:152 Resp: 16228  
Ion Ratio Lower Upper  
152 100  
151 19.7 16.4 24.6  
153 13.1 10.6 15.8

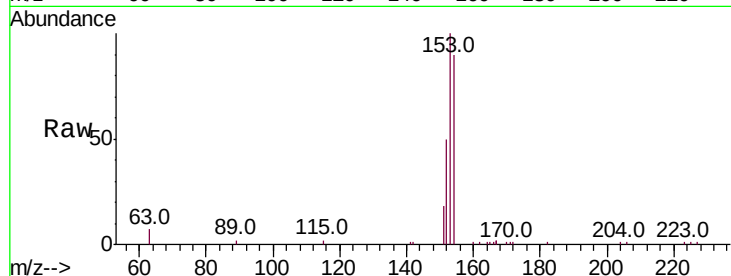




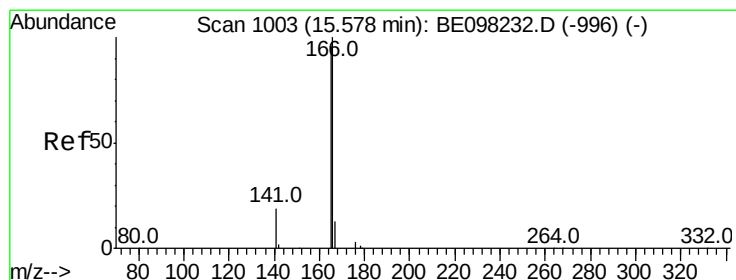
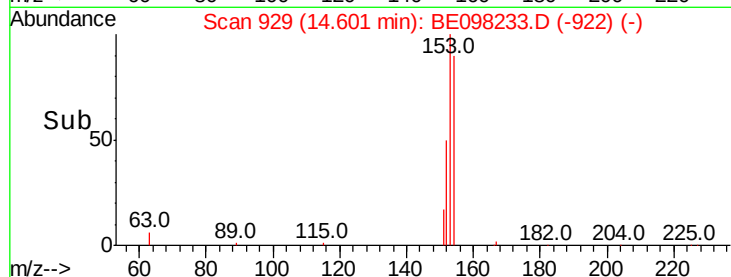
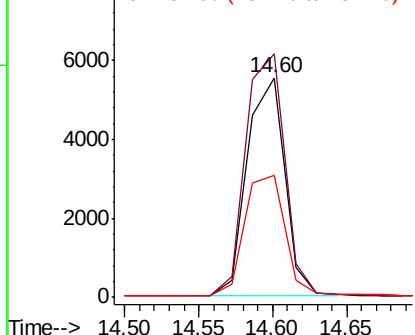
#17  
Acenaphthene  
Concen: 0.796 ng  
RT: 14.60 min Scan# 929  
Delta R.T. -0.00 min  
Lab File: BE098233.D  
Acq: 16 Nov 2018 17:16

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 9679  
Ion Ratio Lower Upper  
154 100  
153 115.6 92.1 138.1  
152 59.3 46.2 69.2

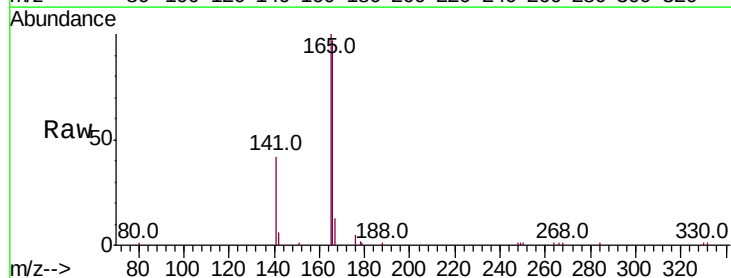


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

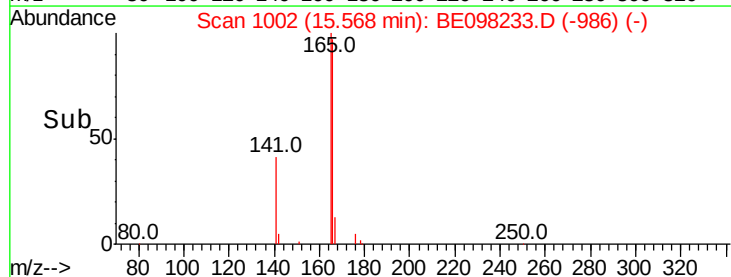
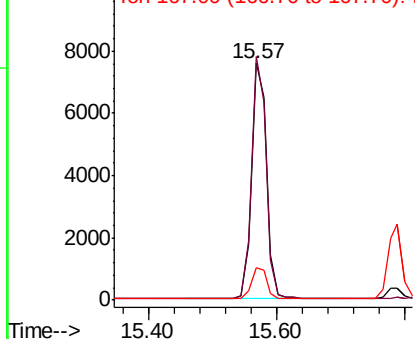


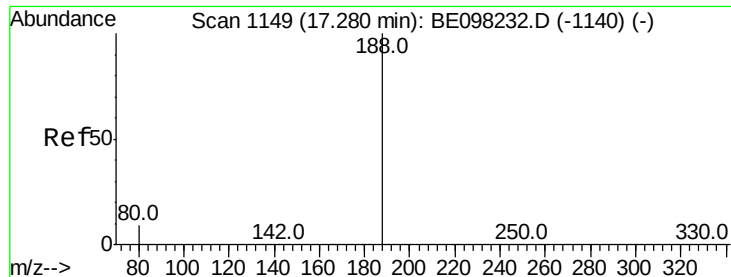
#18  
Fluorene  
Concen: 0.790 ng  
RT: 15.57 min Scan# 1002  
Delta R.T. -0.01 min  
Lab File: BE098233.D  
Acq: 16 Nov 2018 17:16

Tgt Ion:166 Resp: 12301  
Ion Ratio Lower Upper  
166 100  
165 100.2 80.1 120.1  
167 13.8 10.8 16.2



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: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

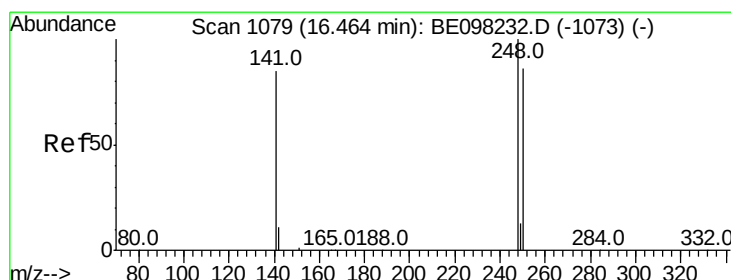
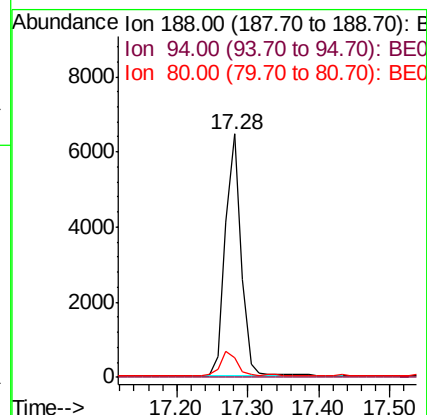
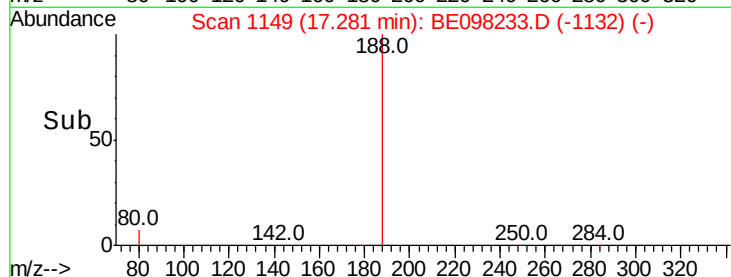
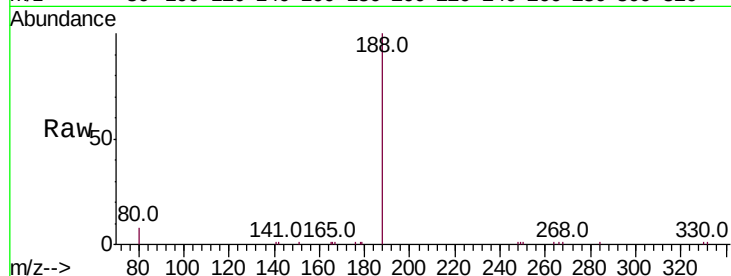
Tot Ion:188 Resp: 9954

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.3 6.7 10.1



#20

4-Bromophenyl-phenylether

Concen: 0.801 ng

RT: 16.47 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

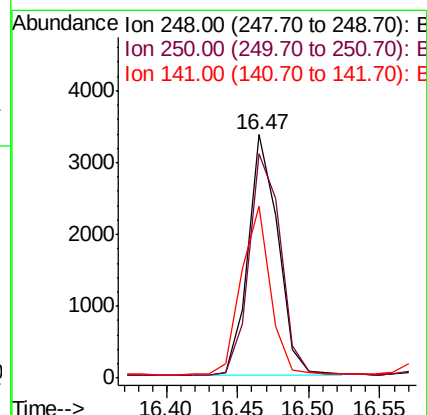
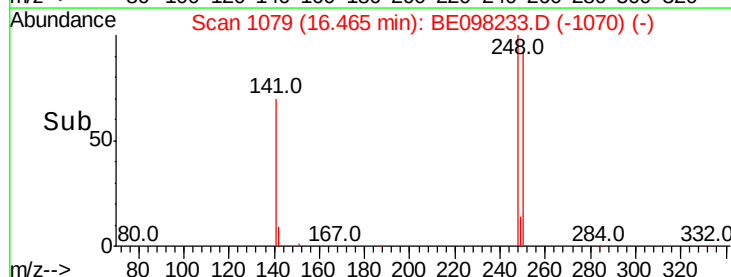
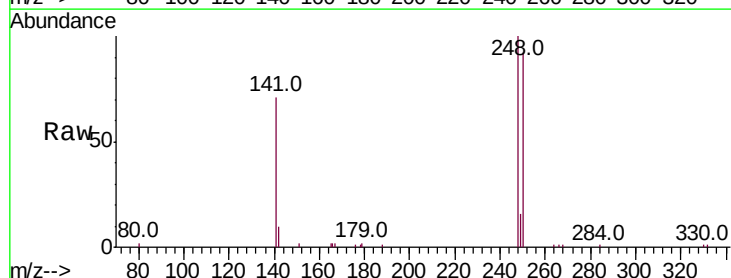
Tgt Ion:248 Resp: 4861

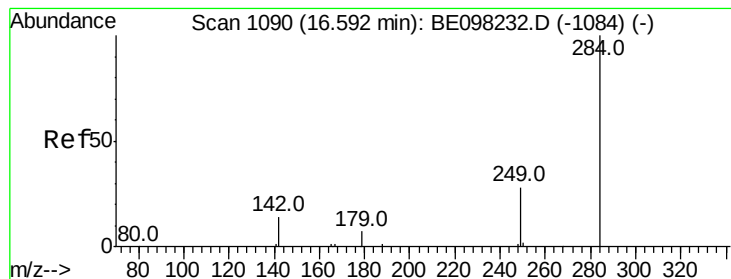
Ion Ratio Lower Upper

248 100

250 92.0 77.6 116.4

141 70.8 65.8 98.8





#21

Hexachlorobenzene

Concen: 0.773 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.01 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampled :

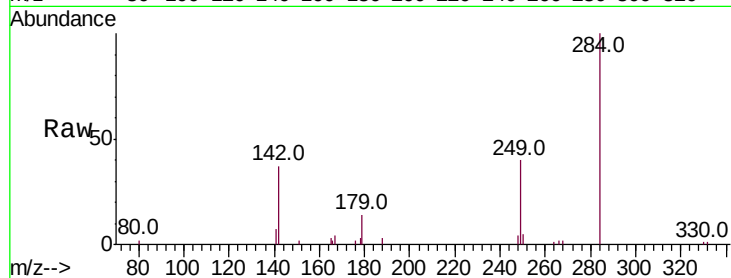
Tot Ion:284 Resp: 4878

Ion Ratio Lower Upper

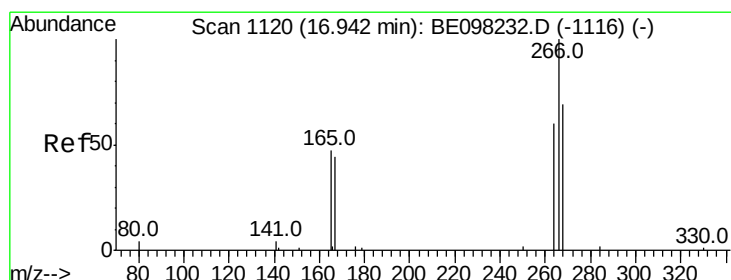
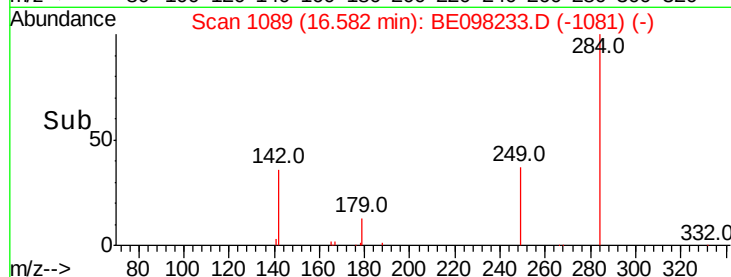
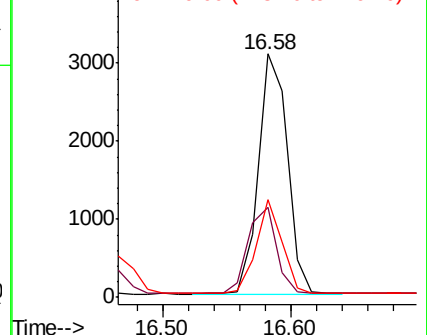
284 100

142 35.2 26.5 39.7

249 34.8 28.4 42.6



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: 0.694 ng

RT: 16.94 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

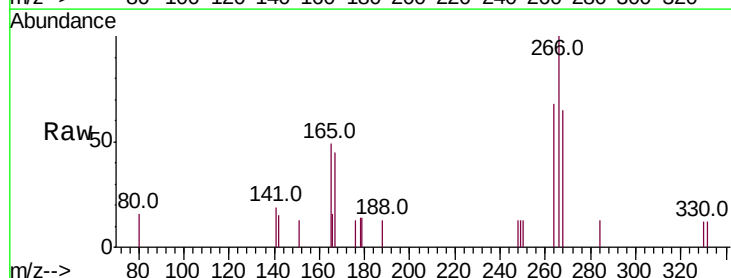
Tgt Ion:266 Resp: 761

Ion Ratio Lower Upper

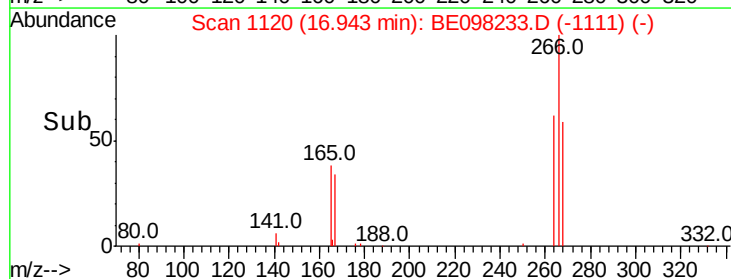
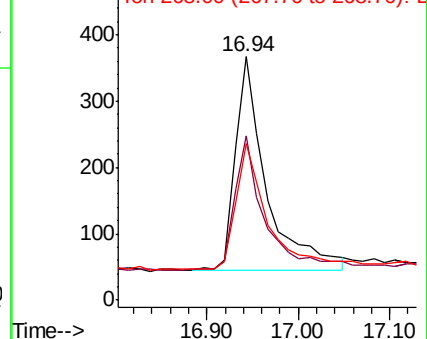
266 100

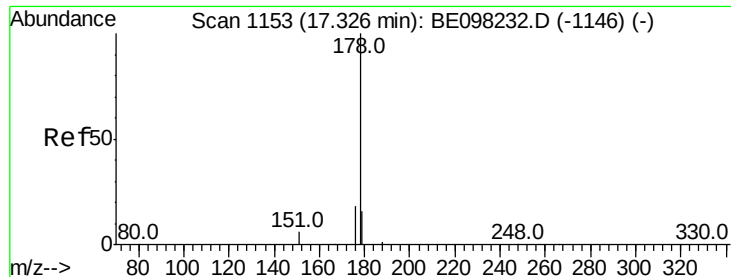
264 67.6 57.6 86.4

268 64.6 56.8 85.2



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: 0.797 ng

RT: 17.32 min Scan# 1152

Delta R.T. -0.01 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

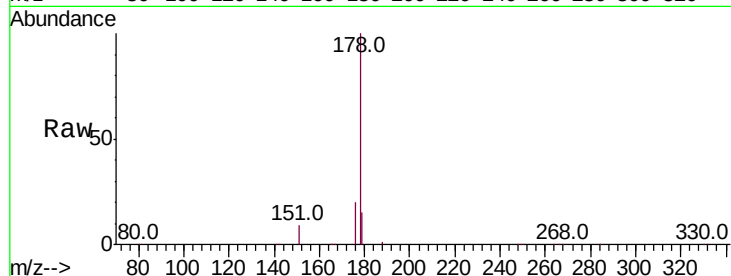
Tot Ion:178 Resp: 19763

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.8

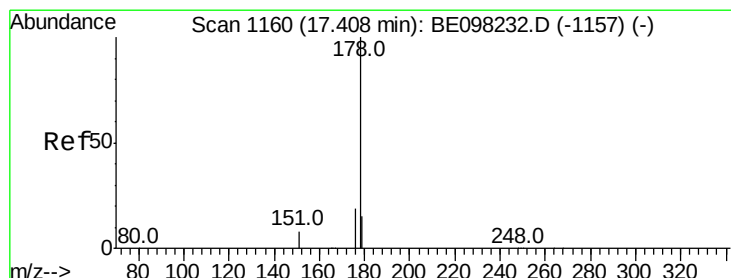
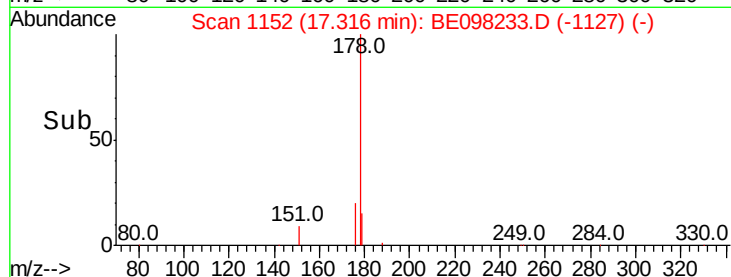
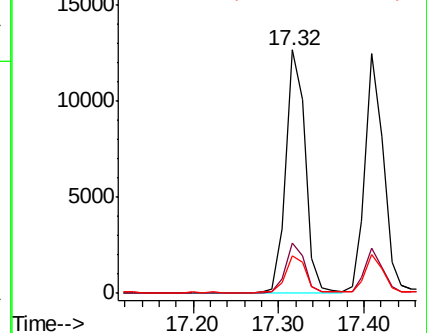
179 15.2 12.3 18.5



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: 0.798 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

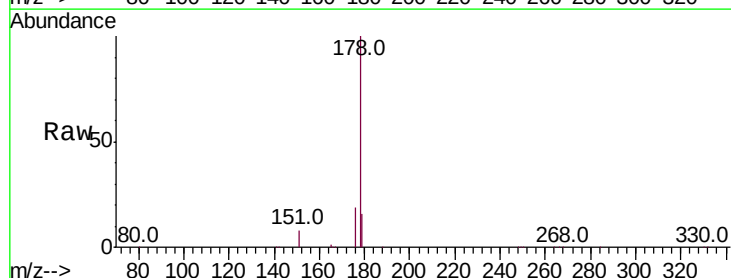
Tgt Ion:178 Resp: 18432

Ion Ratio Lower Upper

178 100

176 18.1 15.7 23.5

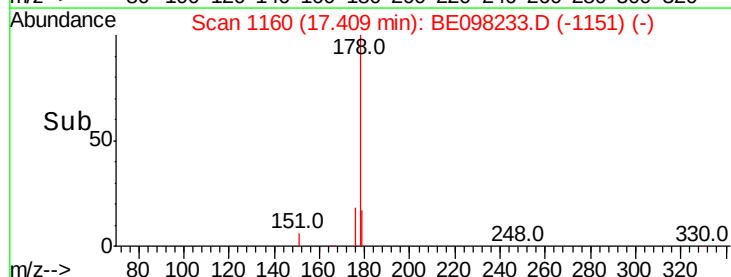
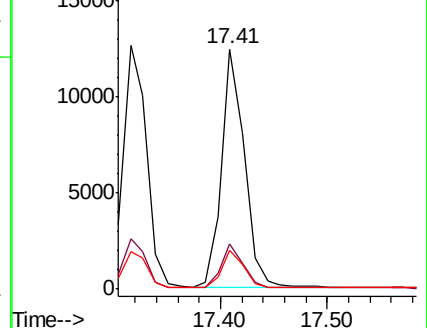
179 15.6 12.1 18.1

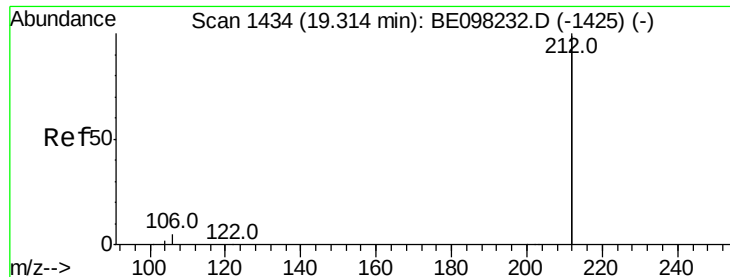


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.758 ng

RT: 19.31 min Scan# 1434

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

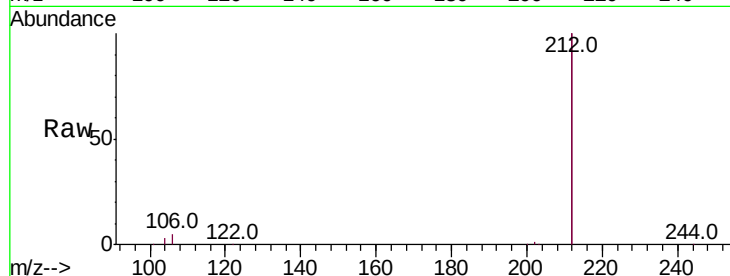
Tot Ion:212 Resp: 94271

Ion Ratio Lower Upper

212 100

106 2.6 1.8 2.8

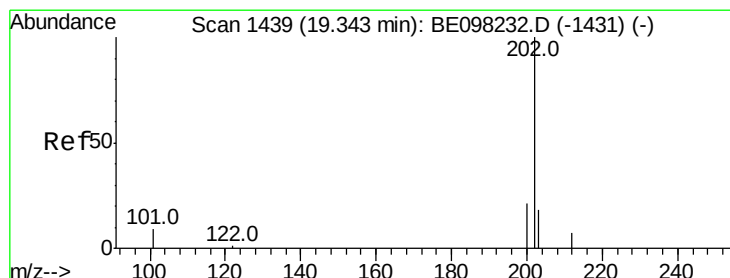
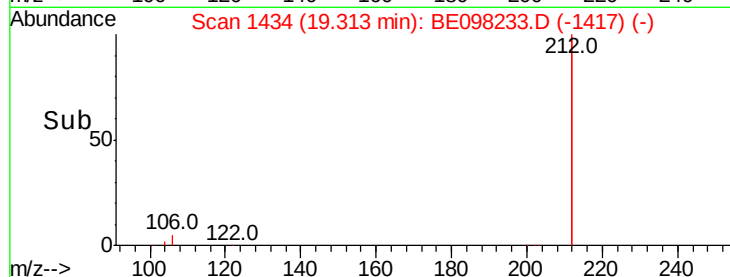
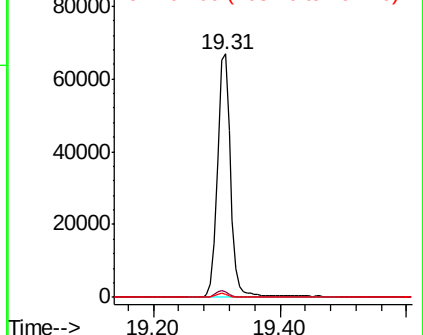
104 1.5 1.1 1.7



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: 0.782 ng

RT: 19.34 min Scan# 1439

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

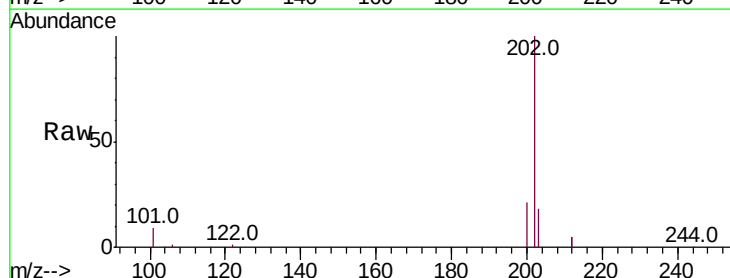
Tgt Ion:202 Resp: 23993

Ion Ratio Lower Upper

202 100

101 9.9 7.0 10.6

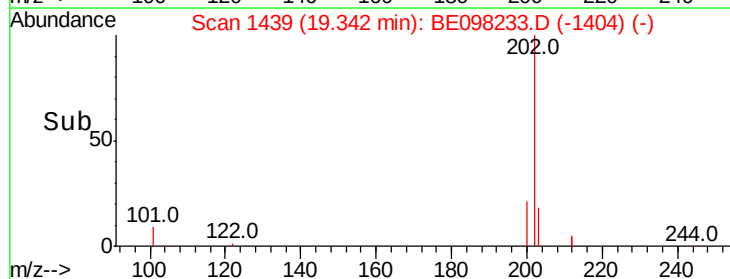
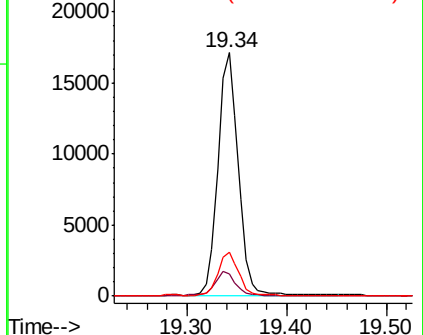
203 17.5 13.7 20.5

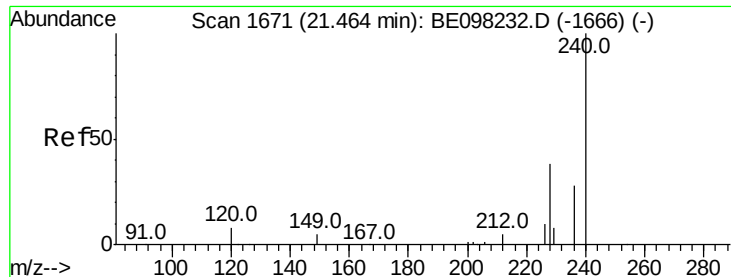


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.46 min Scan# 1671

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

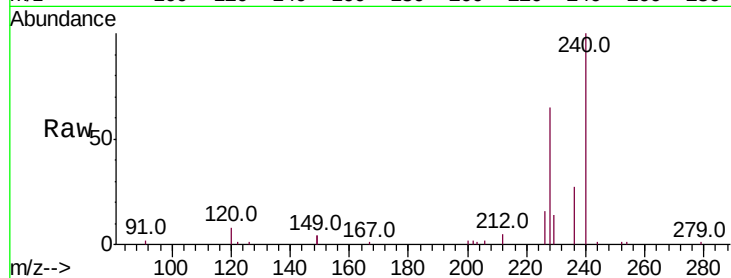
Tot Ion:240 Resp: 10763

Ion Ratio Lower Upper

240 100

120 8.3 4.8 7.2#

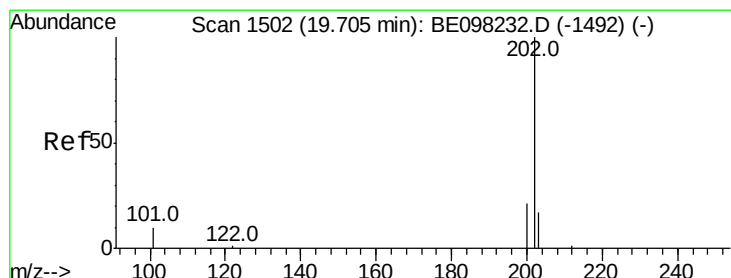
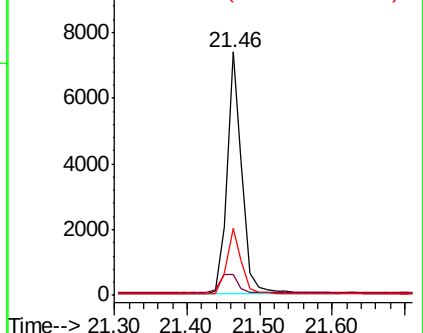
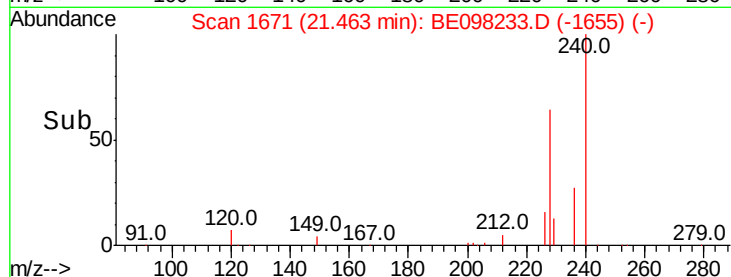
236 27.4 21.4 32.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.828 ng

RT: 19.70 min Scan# 1502

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

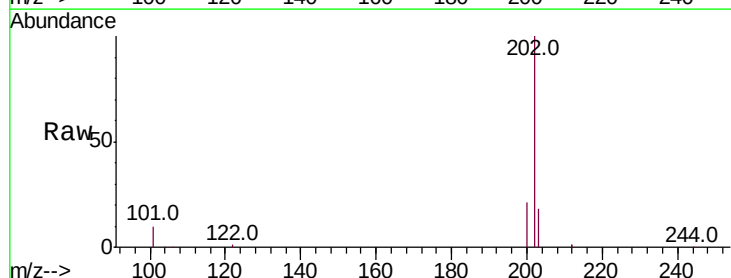
Tgt Ion:202 Resp: 24538

Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

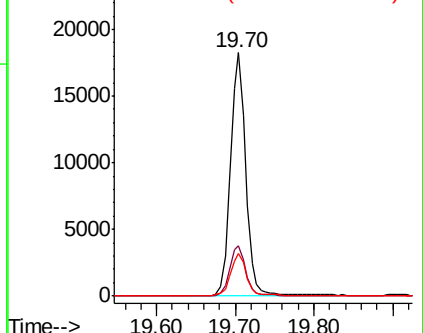
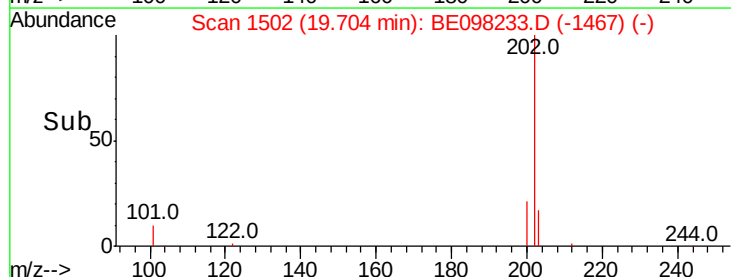
203 17.3 14.2 21.4



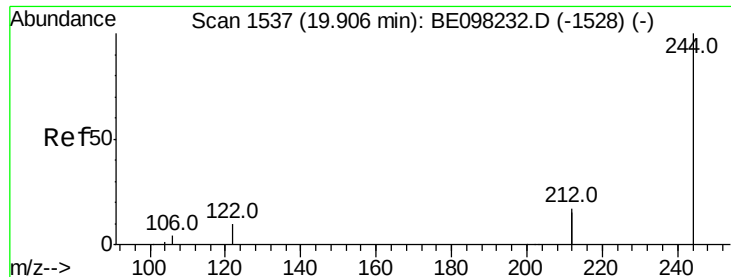
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.778 ng

RT: 19.91 min Scan# 1537

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

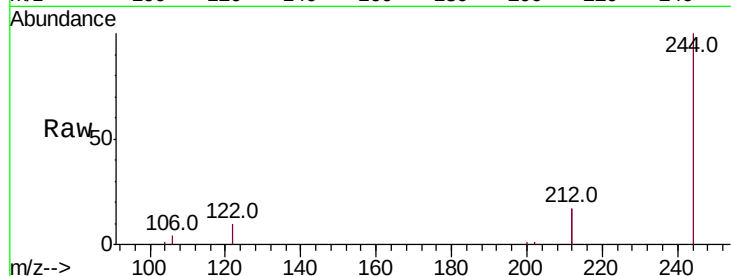
Tot Ion:244 Resp: 19016

Ion Ratio Lower Upper

244 100

212 33.4 26.8 40.2

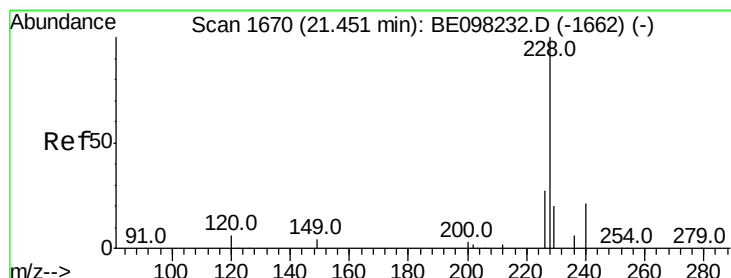
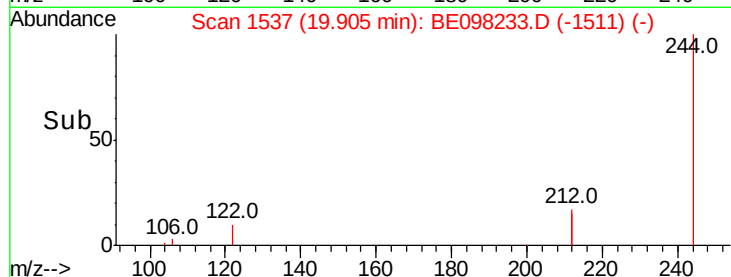
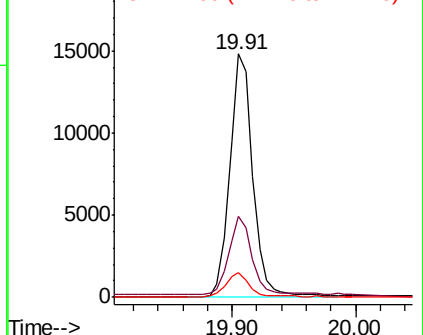
122 10.4 7.0 10.6



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.790 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

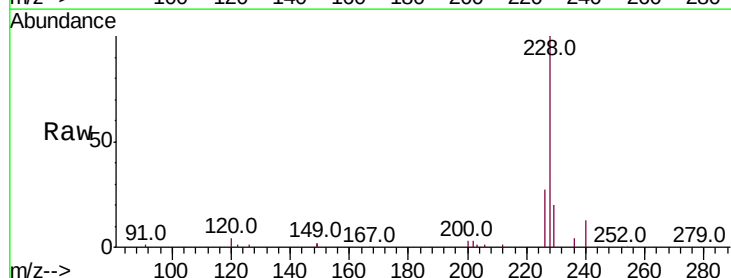
Tgt Ion:228 Resp: 24145

Ion Ratio Lower Upper

228 100

226 26.5 20.7 31.1

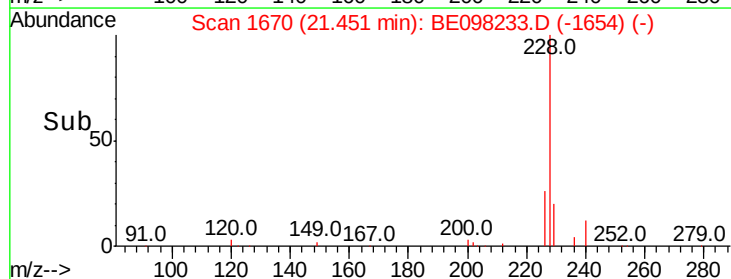
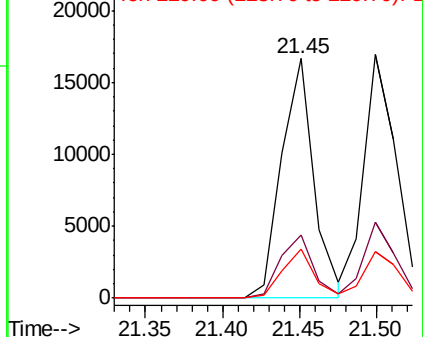
229 20.5 16.2 24.4

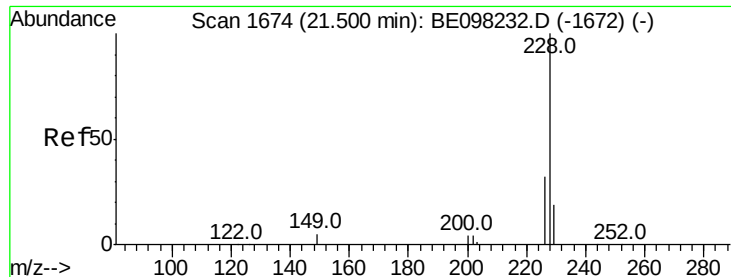


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.808 ng

RT: 21.50 min Scan# 1674

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

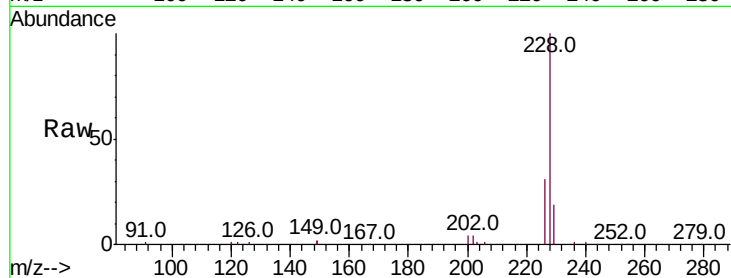
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 25081

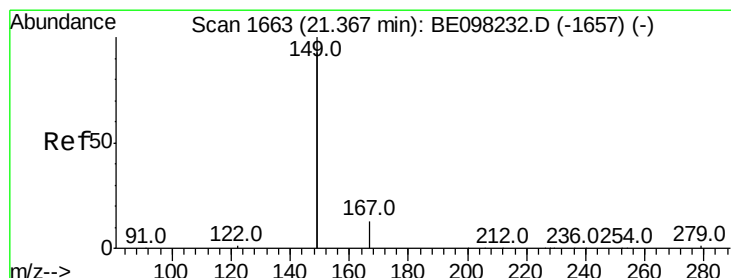
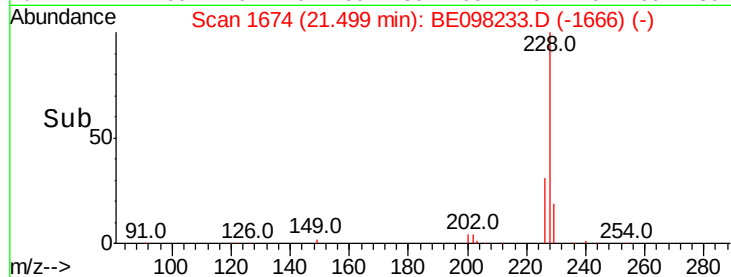
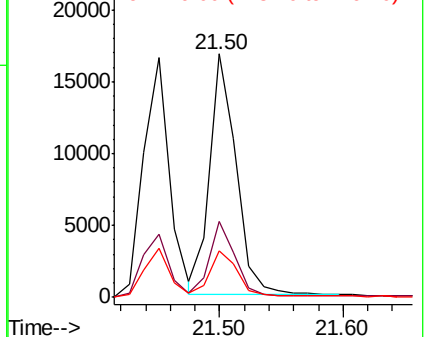
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.3  | 24.6  | 36.8  |
| 229 | 18.9  | 16.0  | 24.0  |



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: 0.570 ng

RT: 21.37 min Scan# 1663

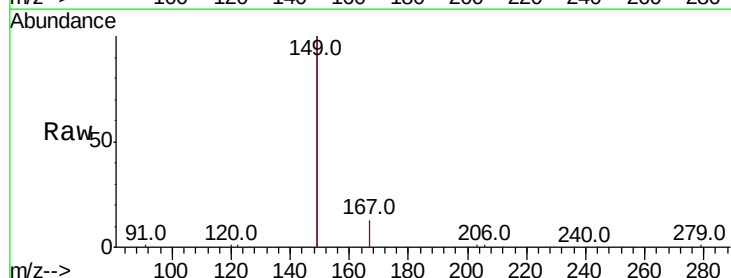
Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Tgt Ion:149 Resp: 36216

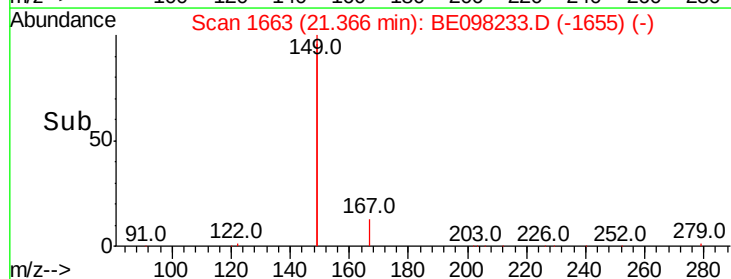
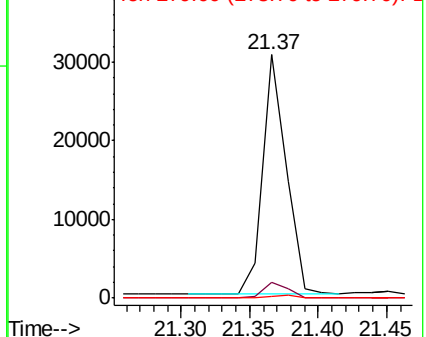
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.9   | 5.6   | 8.4   |
| 279 | 1.1   | 0.9   | 1.3   |

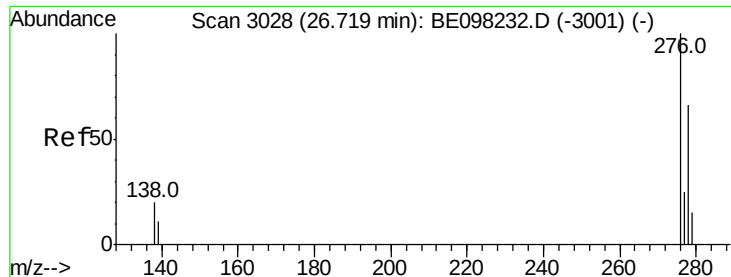


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

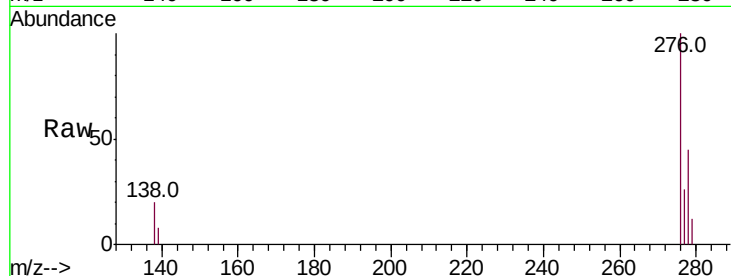




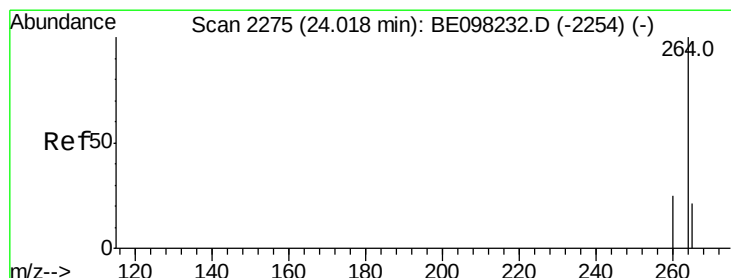
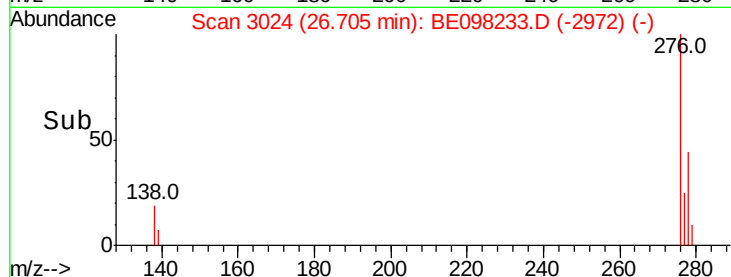
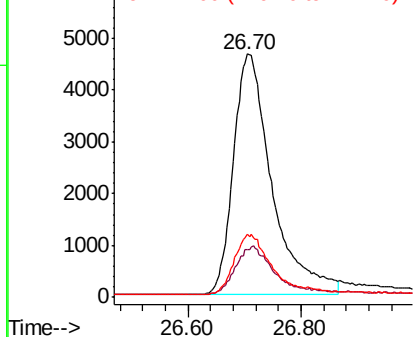
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.776 ng  
 RT: 26.70 min Scan# 3024  
 Delta R.T. -0.01 min  
 Lab File: BE098233.D  
 Acq: 16 Nov 2018 17:16

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 22100  
 Ion Ratio Lower Upper  
 276 100  
 138 20.8 6.4 9.6#  
 277 23.5 18.9 28.3

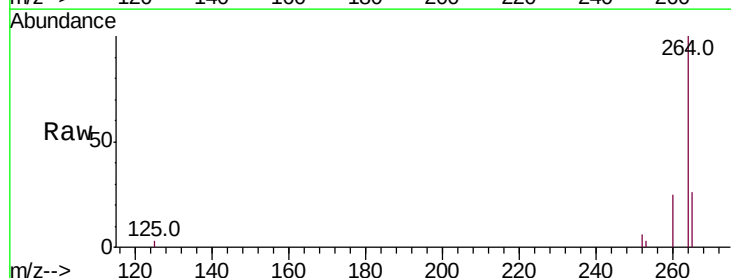


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

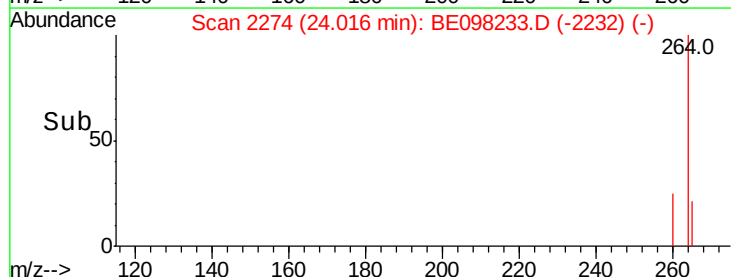
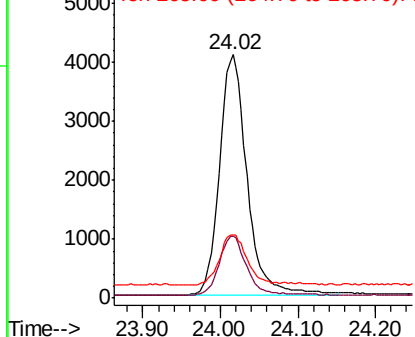


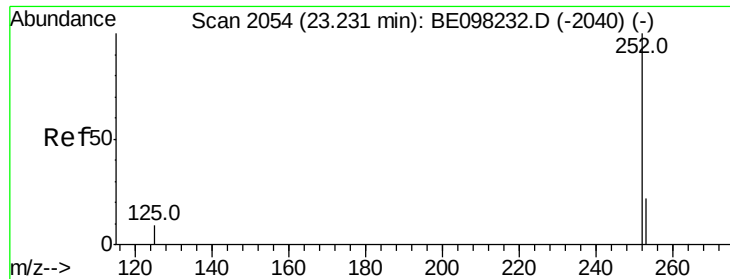
#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.02 min Scan# 2274  
 Delta R.T. -0.00 min  
 Lab File: BE098233.D  
 Acq: 16 Nov 2018 17:16

Tgt Ion:264 Resp: 10058  
 Ion Ratio Lower Upper  
 264 100  
 260 25.5 19.9 29.9  
 265 26.0 21.3 31.9



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: 0.781 ng

RT: 23.23 min Scan# 2053

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

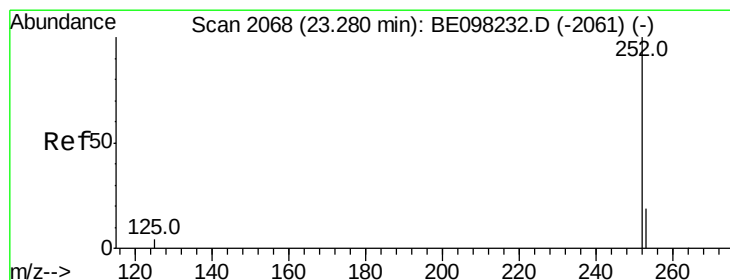
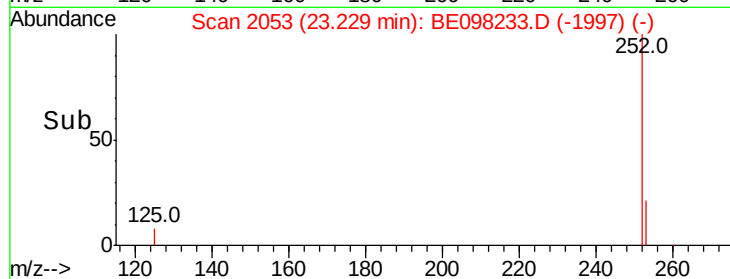
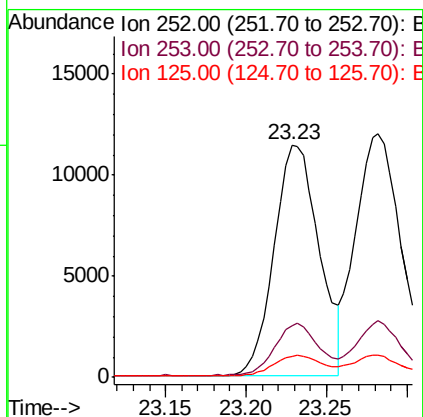
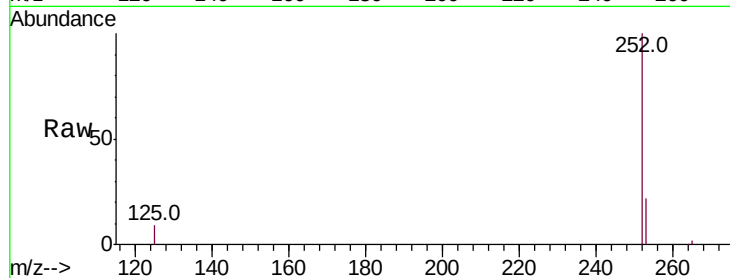
Tot Ion:252 Resp: 22288

Ion Ratio Lower Upper

252 100

253 22.3 19.4 29.0

125 9.1 8.6 12.8



#36

Benzo(k)fluoranthene

Concen: 0.821 ng

RT: 23.28 min Scan# 2068

Delta R.T. 0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

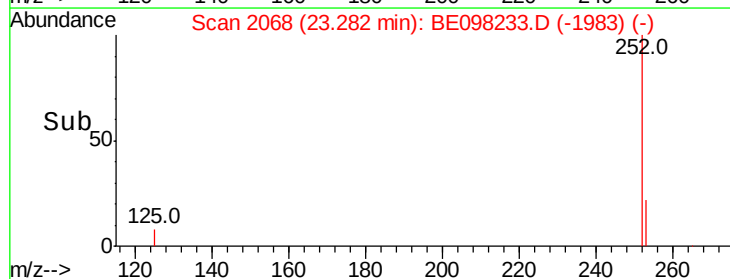
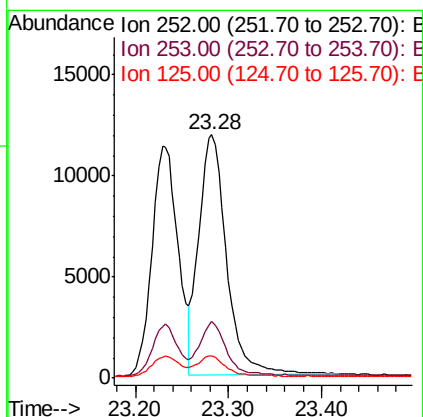
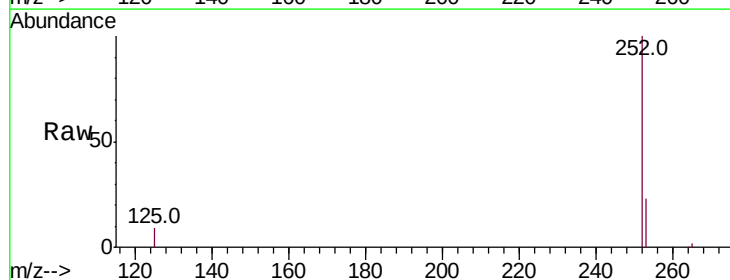
Tgt Ion:252 Resp: 24728

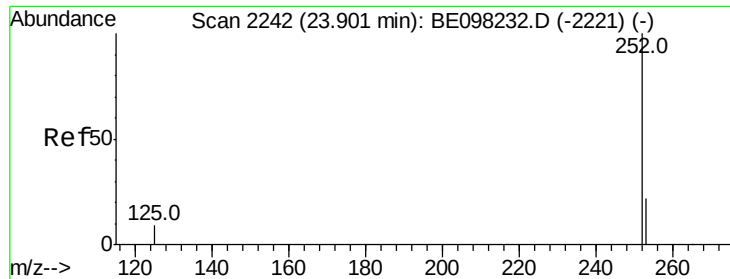
Ion Ratio Lower Upper

252 100

253 23.1 18.6 28.0

125 9.0 7.4 11.0





#37

Benzo(a)pyrene

Concen: 0.795 ng

RT: 23.90 min Scan# 2241

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

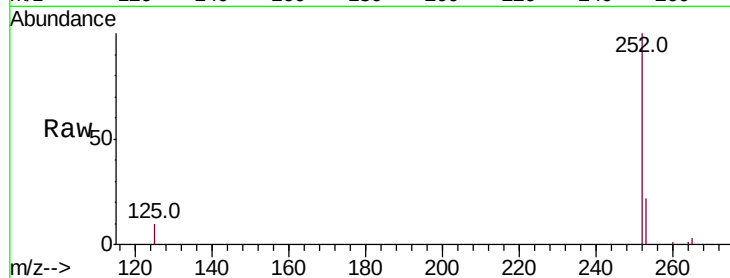
Tot Ion:252 Resp: 21764

Ion Ratio Lower Upper

252 100

253 21.8 18.6 27.8

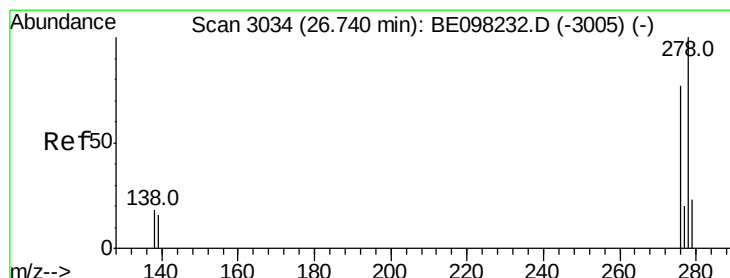
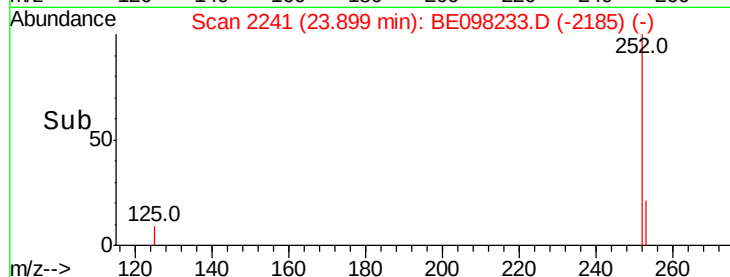
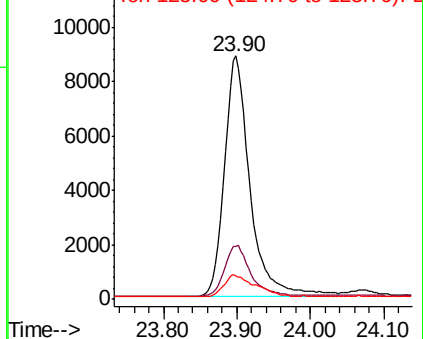
125 9.7 8.0 12.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.754 ng

RT: 26.74 min Scan# 3033

Delta R.T. -0.00 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

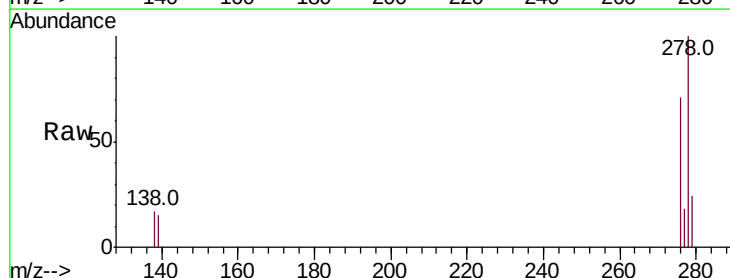
Tgt Ion:278 Resp: 17575

Ion Ratio Lower Upper

278 100

139 14.5 16.4 24.6#

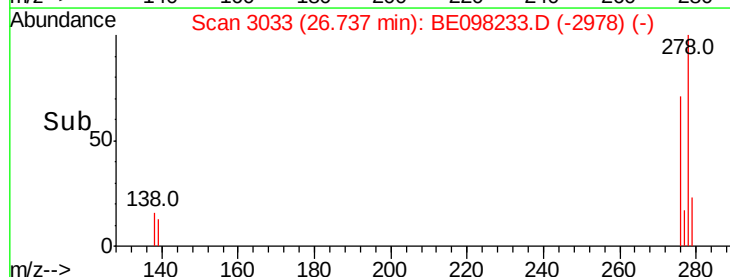
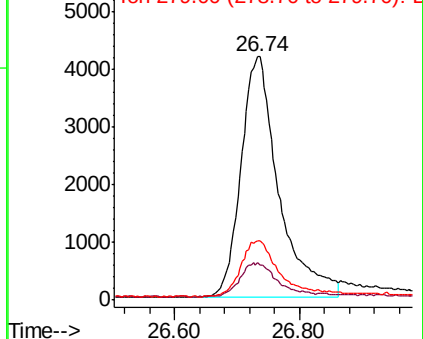
279 24.2 21.3 31.9

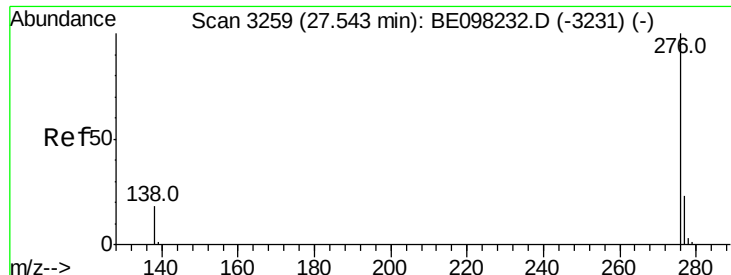


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.787 ng

RT: 27.53 min Scan# 3254

Delta R.T. -0.02 min

Lab File: BE098233.D

Acq: 16 Nov 2018 17:16

Instrument :

BNA\_E

ClientSampleId :

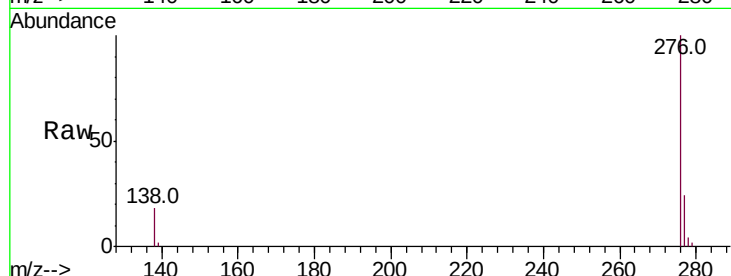
Tot Ion:276 Resp: 19147

Ion Ratio Lower Upper

276 100

277 23.7 20.4 30.6

138 17.7 13.2 19.8



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

