

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121218\  
 Data File : BE098387.D  
 Acq On : 13 Dec 2018 8:56  
 Operator : SJ/JU  
 Sample : PB115545BS  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB115545BS

Quant Time: Dec 13 10:45:14 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.88  | 152  | 1150     | 0.40 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.68 | 136  | 4718     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.54 | 164  | 2716     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 7304     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 9470     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.01 | 264  | 8818     | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.47  | 112  | 686      | 0.25 | ng    | 0.02     |
| 5) Phenol-d6                | 7.07  | 99   | 793      | 0.21 | ng    | 0.02     |
| 8) Nitrobenzene-d5          | 9.05  | 82   | 970      | 0.23 | ng    | 0.04     |
| 11) 2-Methylnaphthalene-d10 | 12.28 | 152  | 1889     | 0.25 | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol    | 16.04 | 330  | 165      | 0.17 | ng    | 0.02     |
| 15) 2-Fluorobiphenyl        | 13.16 | 172  | 2654     | 0.23 | ng    | 0.01     |
| 25) Fluoranthene-d10        | 19.31 | 212  | 23242    | 0.25 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.91 | 244  | 4294     | 0.19 | ng    | 0.00     |

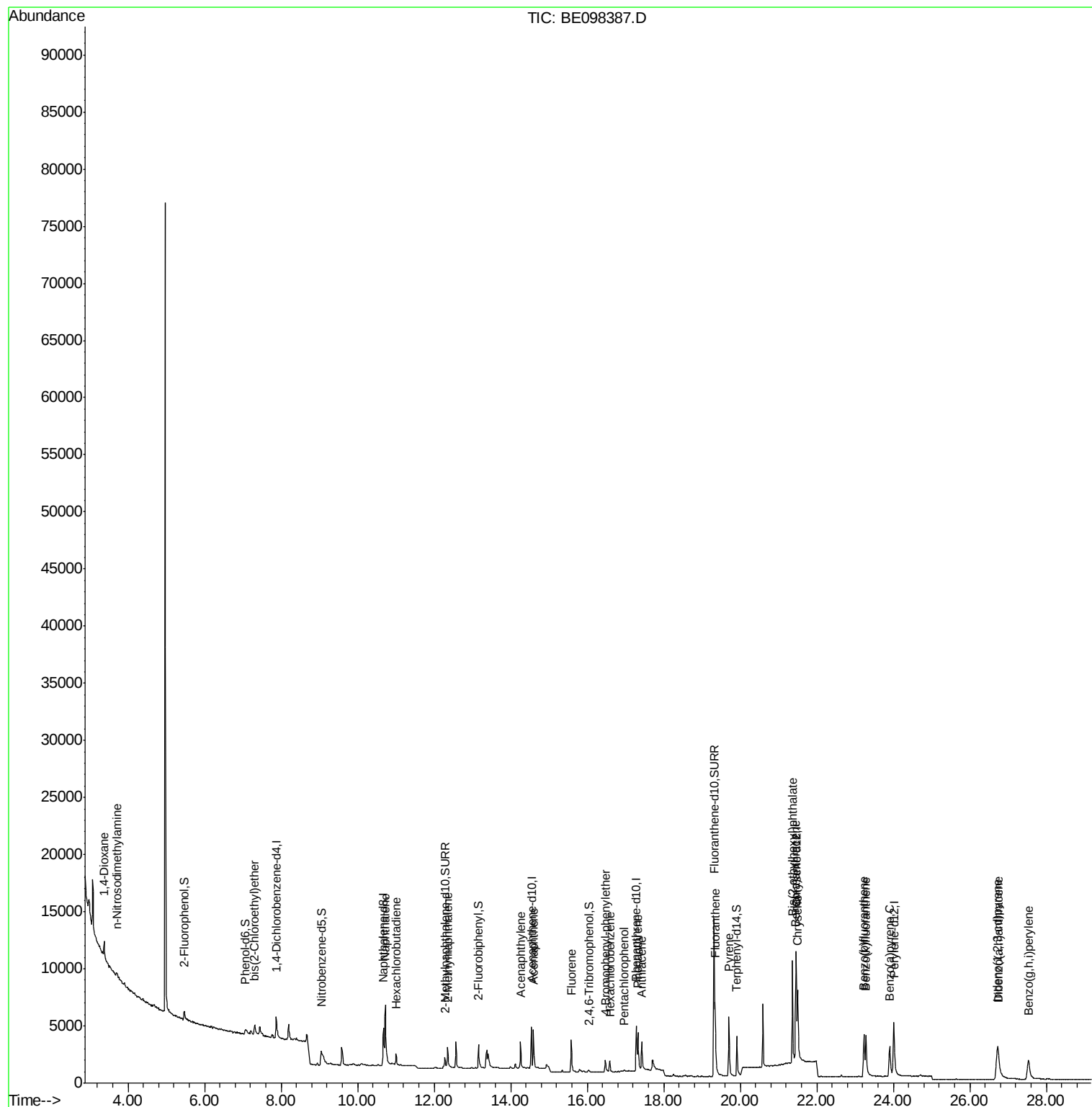
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.37  | 88   | 707      | 0.355 | ng    | # 45   |
| 3) n-Nitrosodimethylamine      | 3.71  | 42   | 439      | 0.245 | ng    | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.31  | 93   | 627      | 0.173 | ng    | 96     |
| 9) Naphthalene                 | 10.73 | 128  | 10915    | 0.230 | ng    | # 98   |
| 10) Hexachlorobutadiene        | 11.00 | 225  | 668      | 0.221 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 12.35 | 142  | 1674     | 0.217 | ng    | 93     |
| 16) Acenaphthylene             | 14.25 | 152  | 2950     | 0.232 | ng    | 99     |
| 17) Acenaphthene               | 14.60 | 154  | 1669     | 0.218 | ng    | 98     |
| 18) Fluorene                   | 15.58 | 166  | 2244     | 0.219 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.48 | 248  | 732      | 0.186 | ng    | 88     |
| 21) Hexachlorobenzene          | 16.59 | 284  | 887      | 0.210 | ng    | 98     |
| 22) Pentachlorophenol          | 16.97 | 266  | 117      | 0.192 | ng    | # 82   |
| 23) Phenanthrene               | 17.33 | 178  | 4108     | 0.231 | ng    | 99     |
| 24) Anthracene                 | 17.42 | 178  | 3266     | 0.206 | ng    | 99     |
| 26) Fluoranthene               | 19.34 | 202  | 5821     | 0.248 | ng    | 99     |
| 28) Pyrene                     | 19.71 | 202  | 5847     | 0.197 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.45 | 228  | 5852     | 0.217 | ng    | 100    |
| 31) Chrysene                   | 21.50 | 228  | 6714     | 0.238 | ng    | 96     |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149  | 10096    | 0.184 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.72 | 276  | 6496     | 0.231 | ng    | # 85   |
| 35) Benzo(b)fluoranthene       | 23.23 | 252  | 5594     | 0.232 | ng    | 98     |
| 36) Benzo(k)fluoranthene       | 23.28 | 252  | 6773     | 0.241 | ng    | 99     |
| 37) Benzo(a)pyrene             | 23.90 | 252  | 6132     | 0.246 | ng    | # 97   |
| 38) Dibenzo(a,h)anthracene     | 26.74 | 278  | 5103     | 0.218 | ng    | 96     |
| 39) Benzo(g,h,i)perylene       | 27.53 | 276  | 5683     | 0.241 | ng    | 97     |

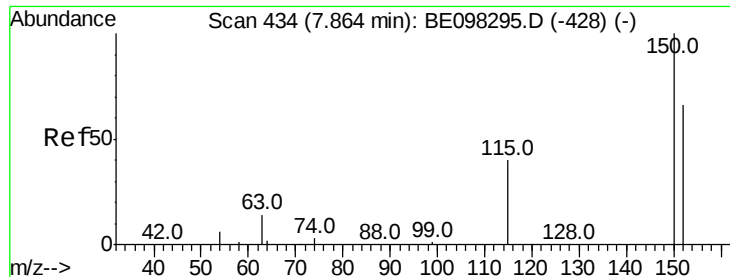
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 10 14:59:55 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.88 min Scan# 435

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

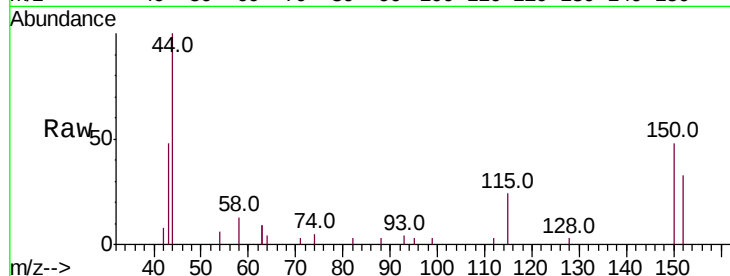
Tot Ion:152 Resp: 1150

Ion Ratio Lower Upper

152 100

150 148.1 124.2 186.4

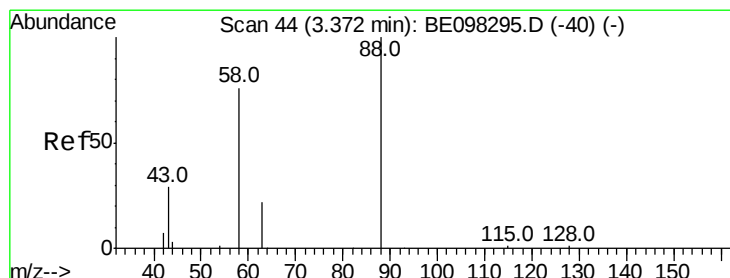
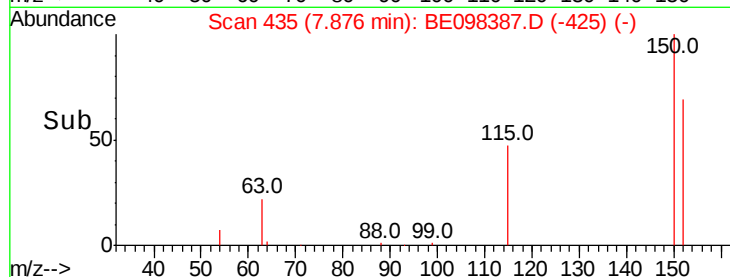
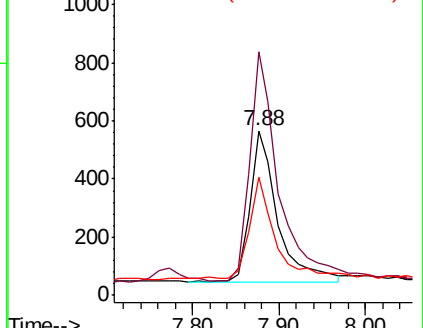
115 72.2 53.9 80.9



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: 0.355 ng

RT: 3.37 min Scan# 44

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

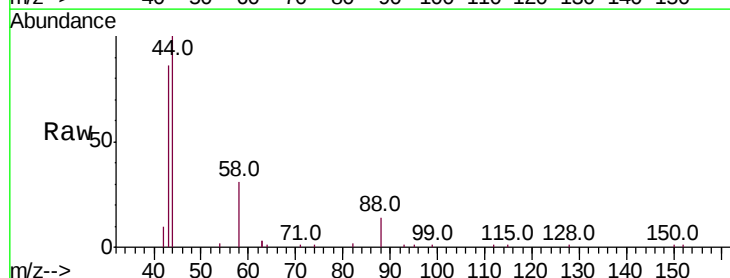
Tgt Ion: 88 Resp: 707

Ion Ratio Lower Upper

88 100

58 138.3 75.0 112.6#

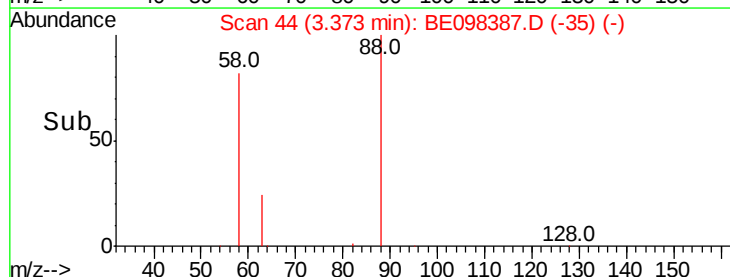
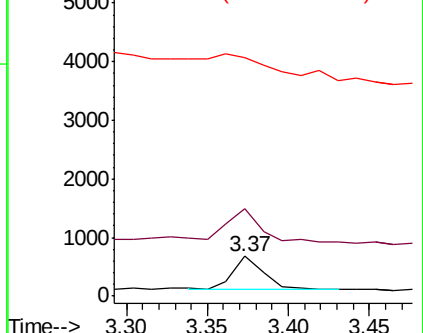
43 0.0 38.3 57.5#

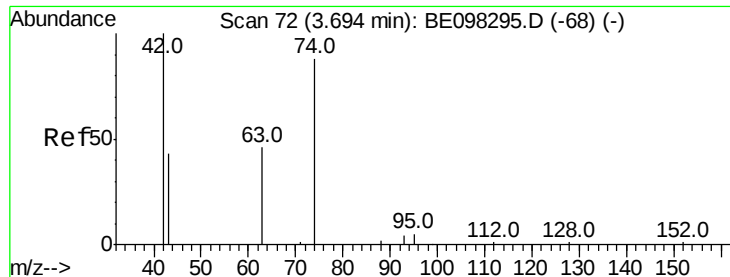


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.245 ng

RT: 3.71 min Scan# 73

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

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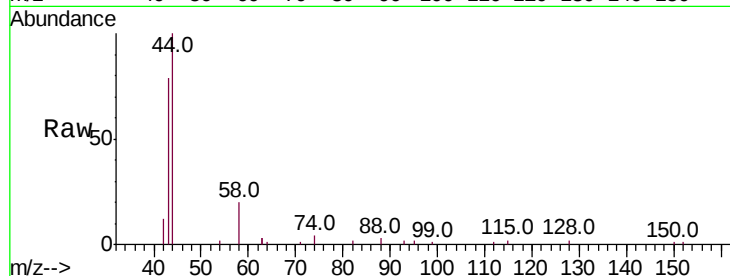
Tot Ion: 42 Resp: 439

Ion Ratio Lower Upper

42 100

74 57.4 0.0 0.0#

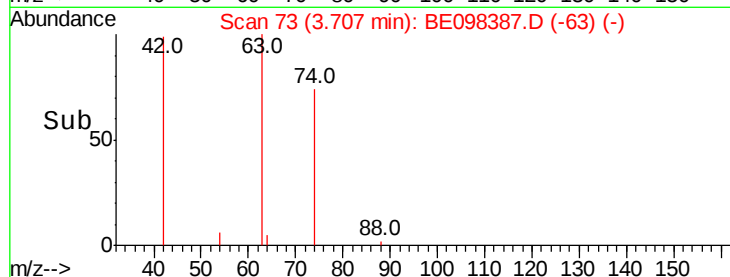
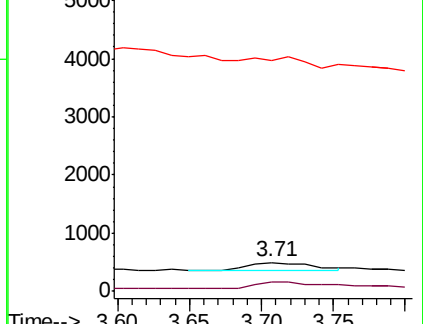
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.255 ng

RT: 5.47 min Scan# 226

Delta R.T. 0.02 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

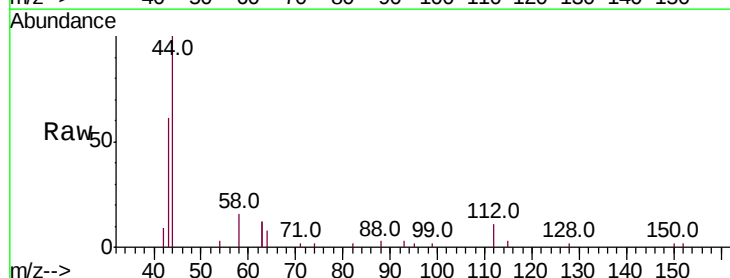
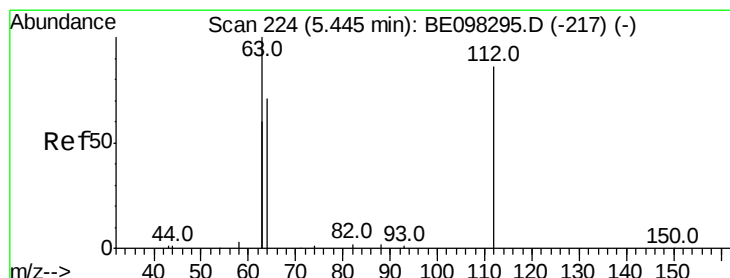
Tgt Ion: 112 Resp: 686

Ion Ratio Lower Upper

112 100

64 75.8 59.8 89.8

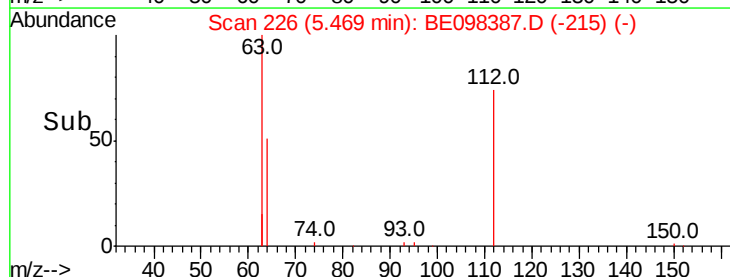
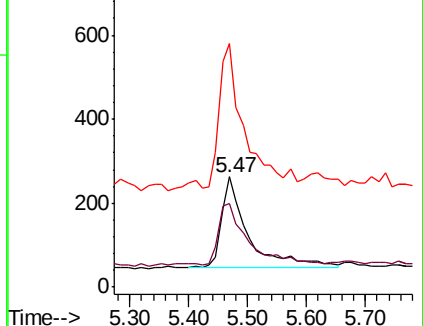
63 148.3 133.7 200.5

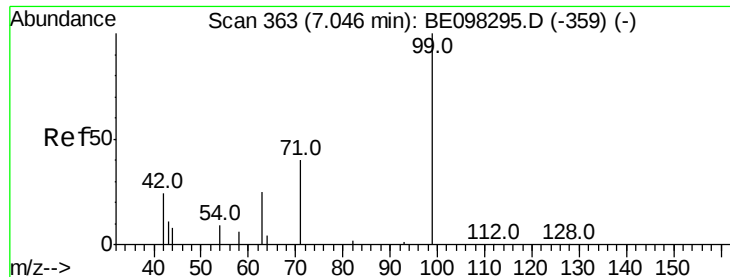


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.208 ng

RT: 7.07 min Scan# 365

Delta R.T. 0.02 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

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PB115545BS

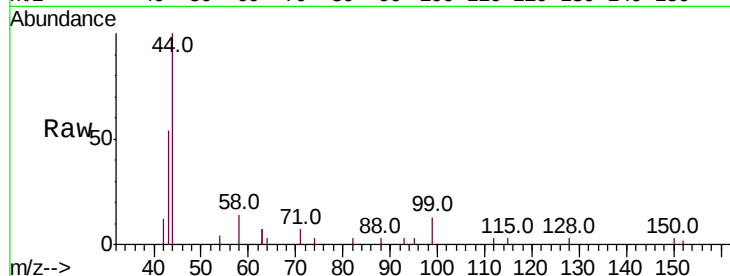
Tot Ion: 99 Resp: 793

Ion Ratio Lower Upper

99 100

42 36.6 26.3 39.5

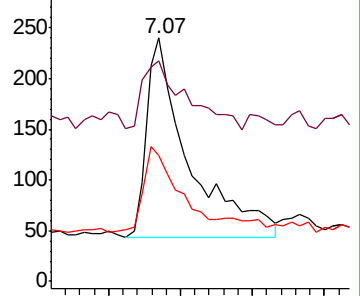
71 35.1 33.6 50.4



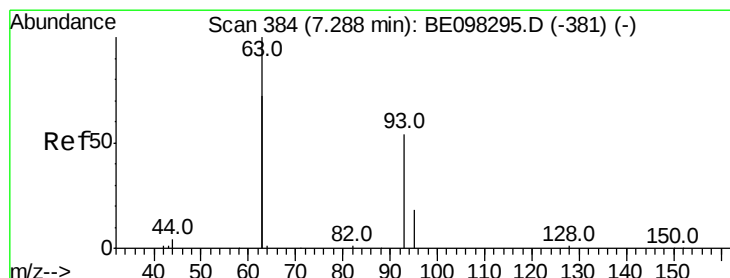
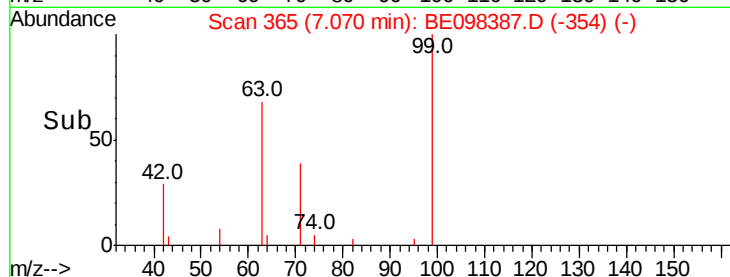
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.173 ng

RT: 7.31 min Scan# 386

Delta R.T. 0.02 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

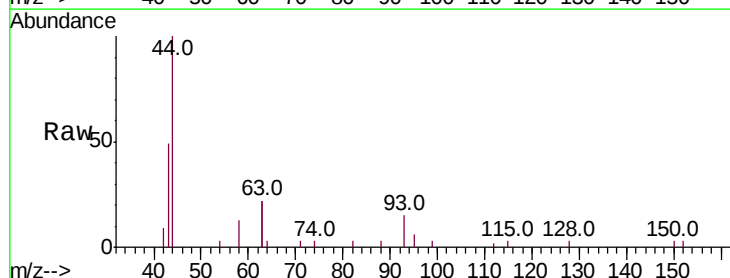
Tgt Ion: 93 Resp: 627

Ion Ratio Lower Upper

93 100

63 321.9 264.4 396.6

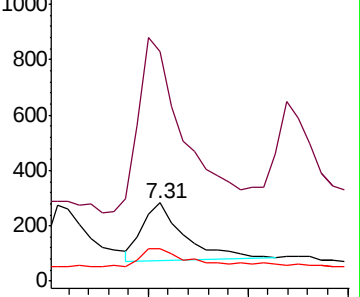
95 31.3 26.6 40.0



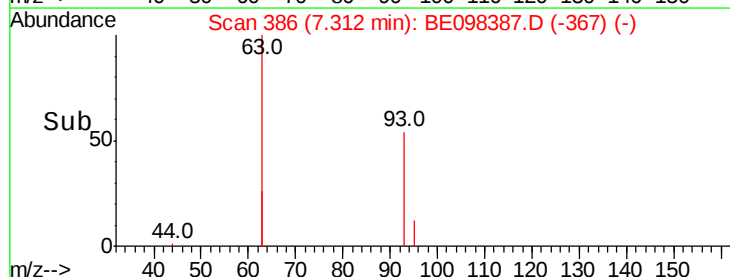
Abundance Ion 93.00 (92.70 to 93.70): BE0

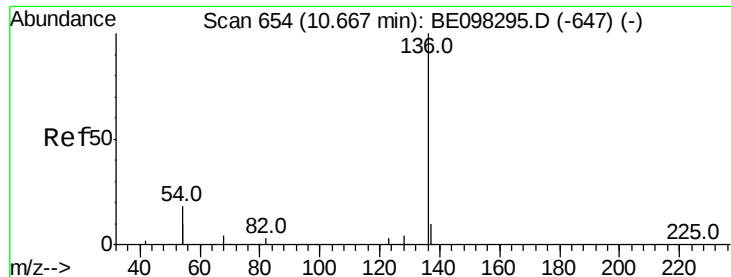
Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.68 min Scan# 655

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

Tot Ion:136 Resp: 4718

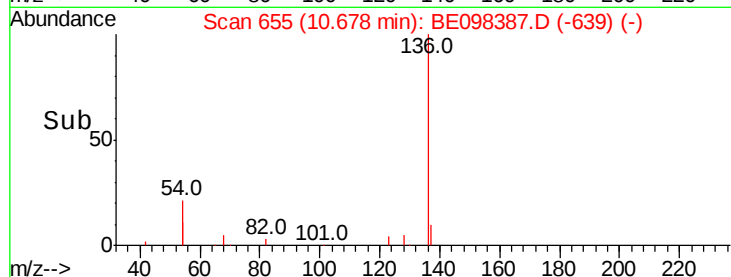
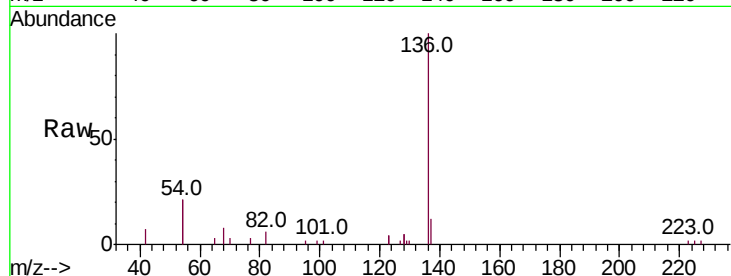
Ion Ratio Lower Upper

136 100

137 11.9 9.2 13.8

54 42.1 28.4 42.6

68 7.7 5.4 8.0

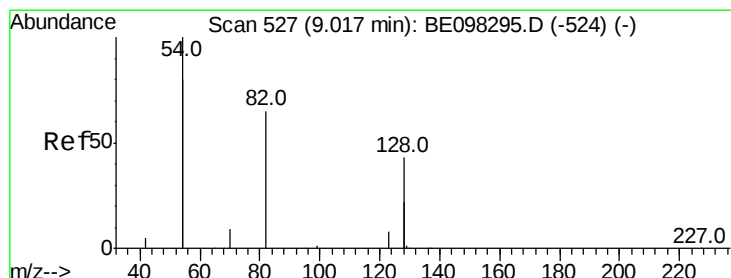
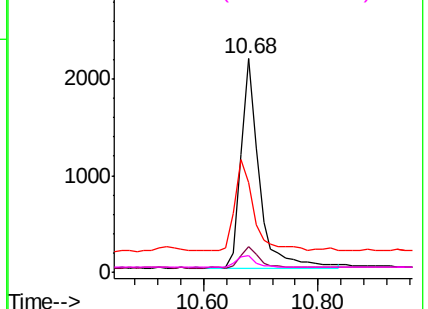


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.226 ng

RT: 9.05 min Scan# 530

Delta R.T. 0.04 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

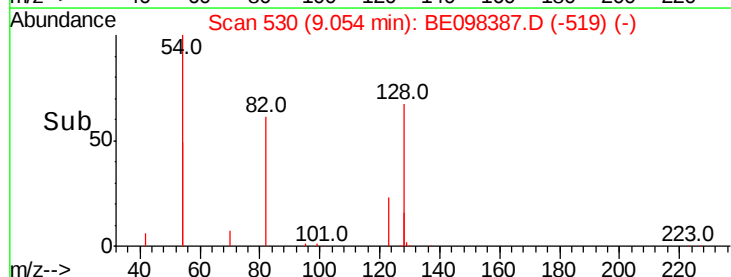
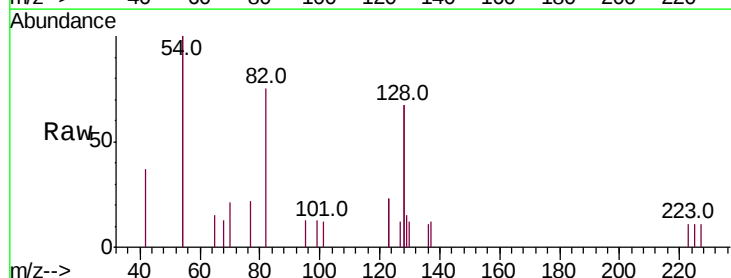
Tgt Ion: 82 Resp: 970

Ion Ratio Lower Upper

82 100

128 179.9 102.4 153.6#

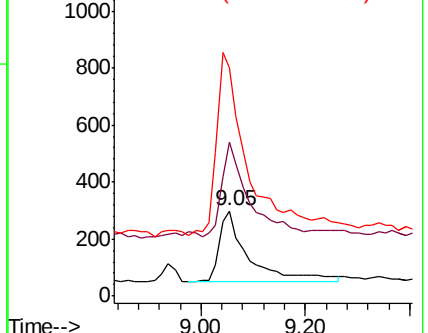
54 268.2 221.8 332.8

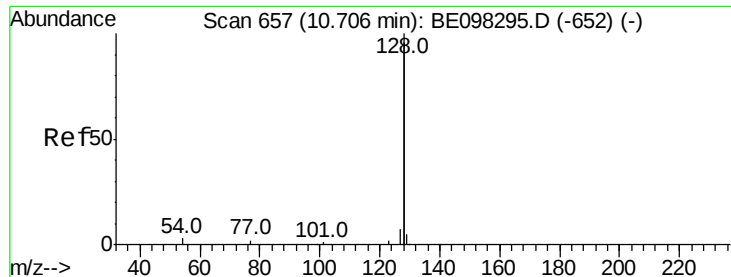


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.230 ng

RT: 10.73 min Scan# 659

Delta R.T. 0.02 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

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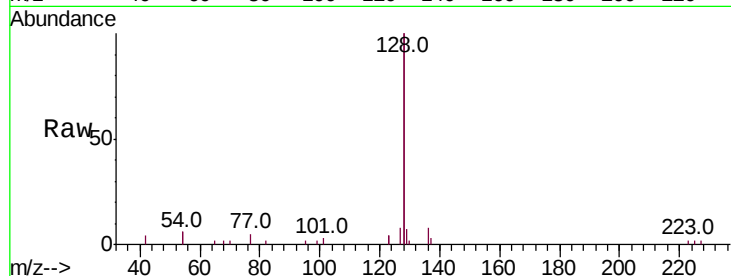
Tot Ion:128 Resp: 10915

Ion Ratio Lower Upper

128 100

129 3.5 2.5 3.7

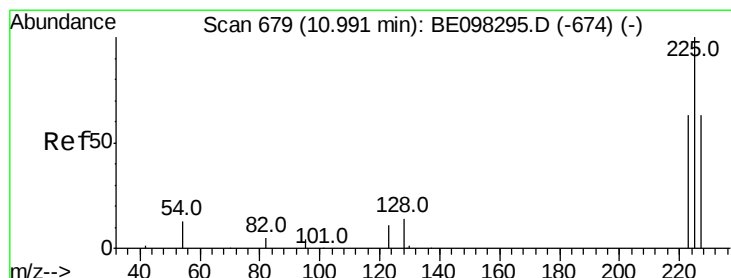
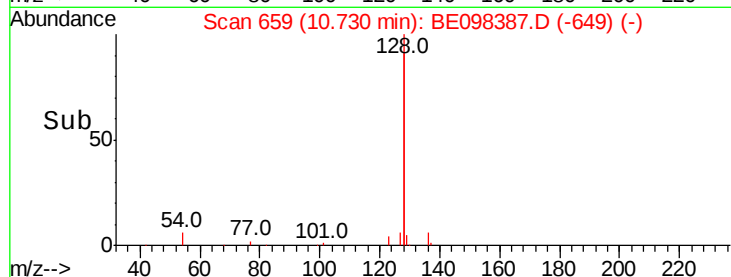
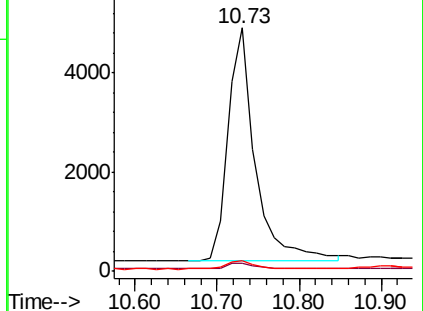
127 4.2 2.7 4.1#



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: 0.221 ng

RT: 11.00 min Scan# 680

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

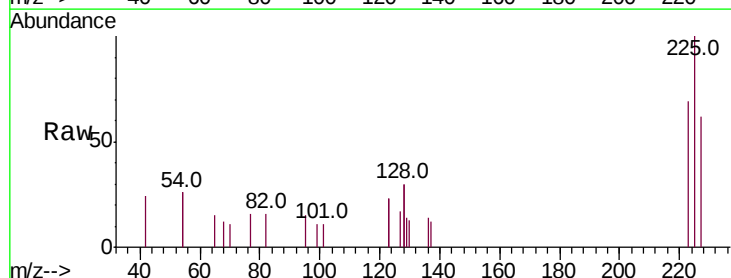
Tgt Ion:225 Resp: 668

Ion Ratio Lower Upper

225 100

223 64.8 49.4 74.0

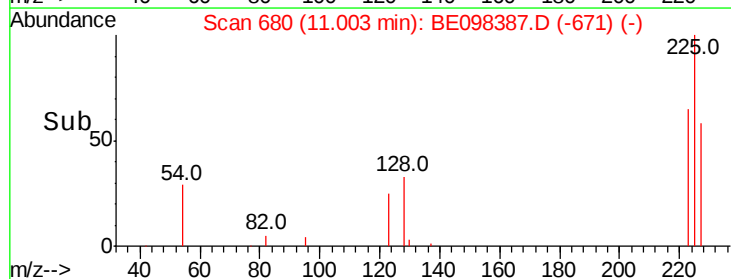
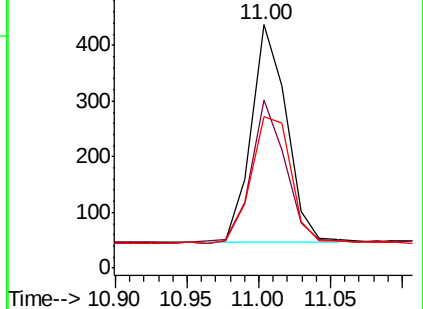
227 65.7 52.0 78.0

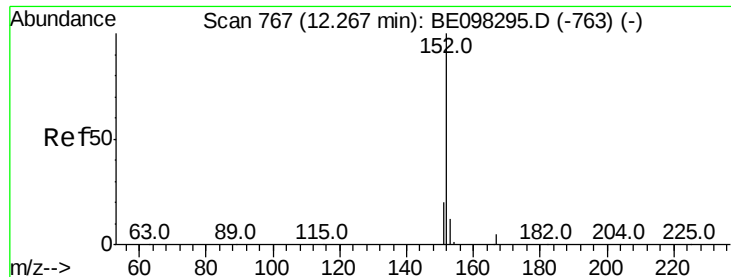


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

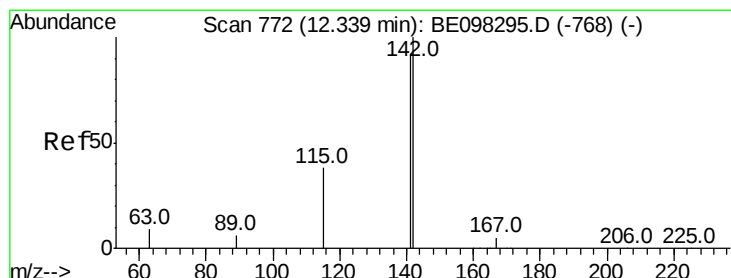
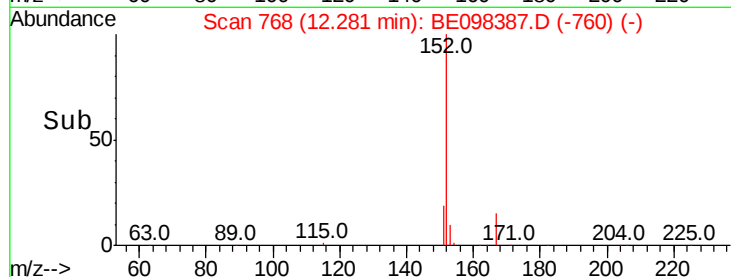
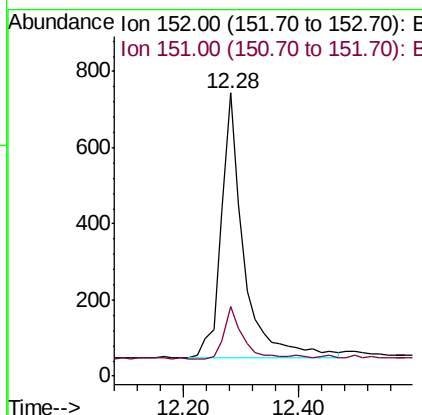
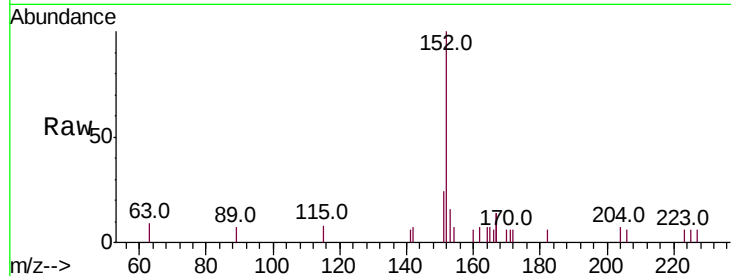




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.246 ng  
 RT: 12.28 min Scan# 768  
 Delta R.T. 0.01 min  
 Lab File: BE098387.D  
 Acq: 13 Dec 2018 8:56

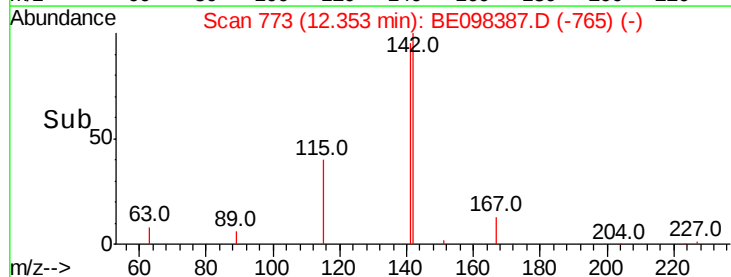
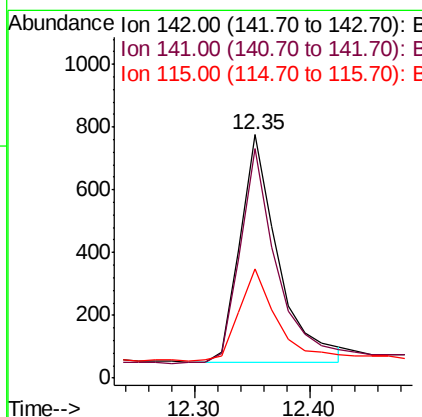
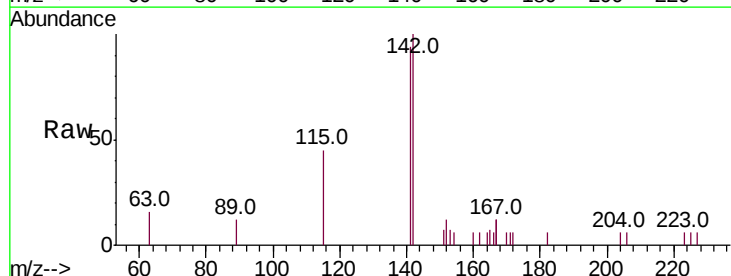
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB115545BS

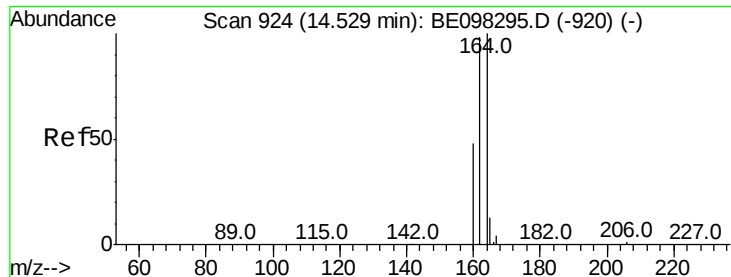
Tot Ion:152 Resp: 1889  
 Ion Ratio Lower Upper  
 152 100  
 151 16.7 16.2 24.4



#12  
 2-Methylnaphthalene  
 Concen: 0.217 ng  
 RT: 12.35 min Scan# 773  
 Delta R.T. 0.01 min  
 Lab File: BE098387.D  
 Acq: 13 Dec 2018 8:56

Tgt Ion:142 Resp: 1674  
 Ion Ratio Lower Upper  
 142 100  
 141 94.5 71.0 106.6  
 115 45.1 32.2 48.2

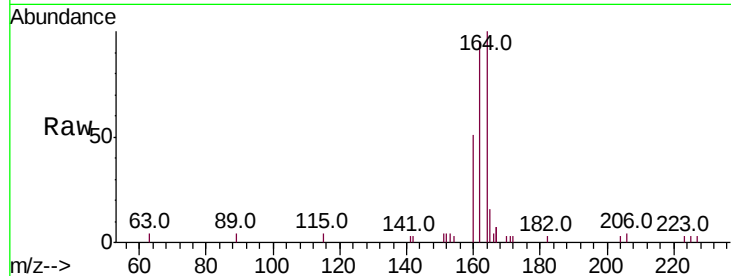




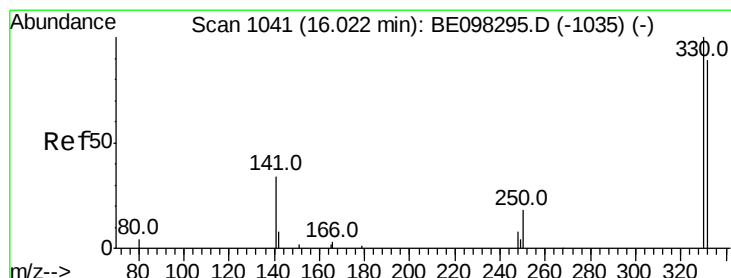
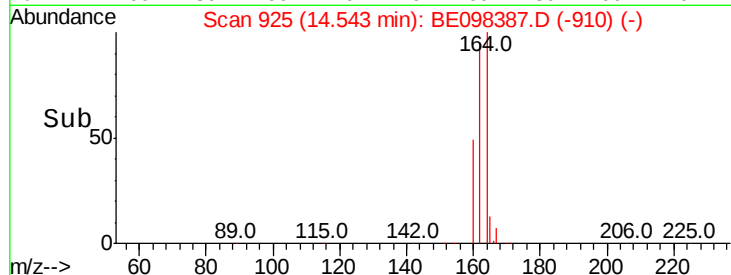
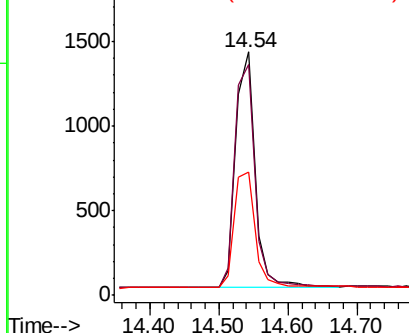
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: BE098387.D  
Acq: 13 Dec 2018 8:56

Instrument :  
BNA\_E  
ClientSampleId :  
PB115545BS

Tot Ion:164 Resp: 2716  
Ion Ratio Lower Upper  
164 100  
162 94.8 77.6 116.4  
160 50.7 36.0 54.0

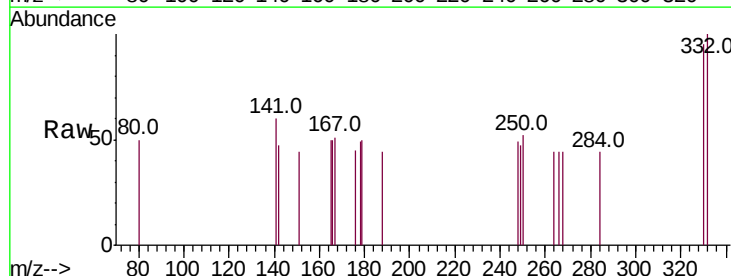


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

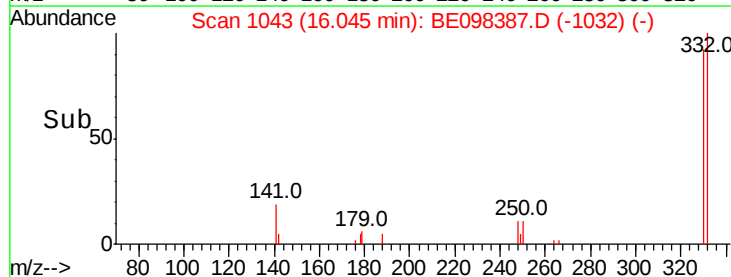
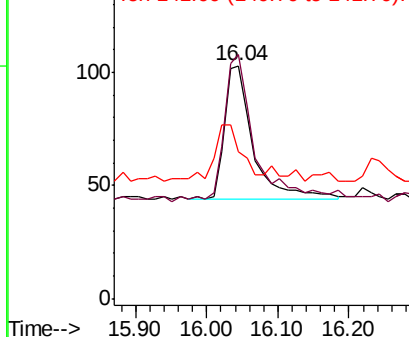


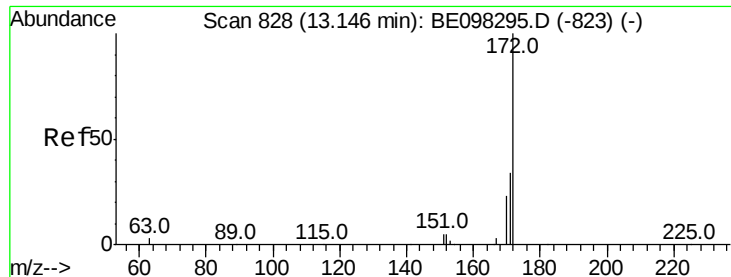
#14  
2,4,6-Tribromophenol  
Concen: 0.165 ng  
RT: 16.04 min Scan# 1043  
Delta R.T. 0.02 min  
Lab File: BE098387.D  
Acq: 13 Dec 2018 8:56

Tgt Ion:330 Resp: 165  
Ion Ratio Lower Upper  
330 100  
332 112.7 76.2 114.4  
141 0.0 39.0 58.4#



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

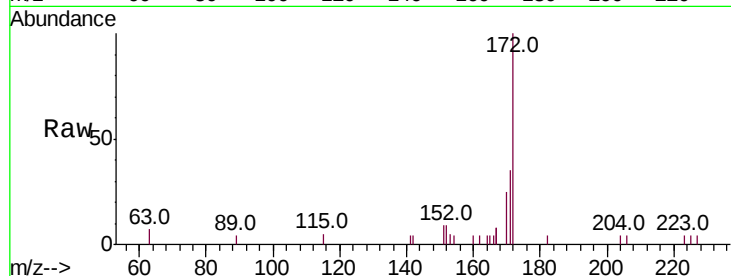




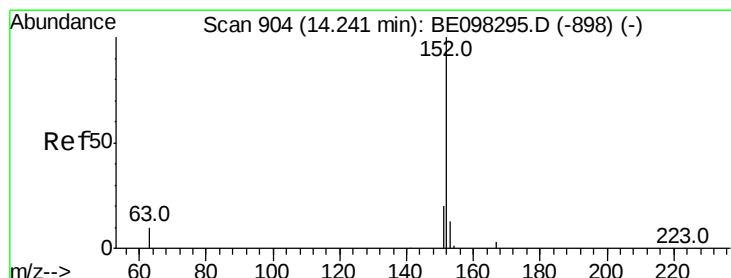
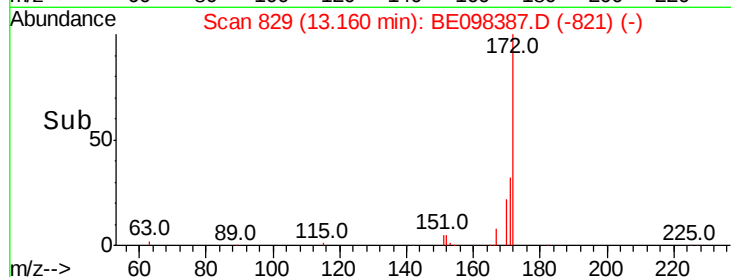
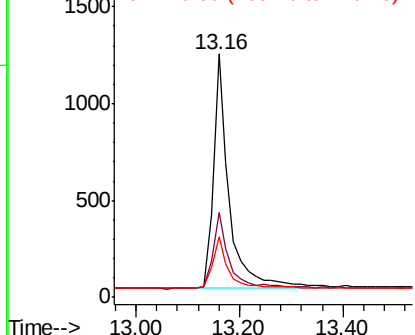
#15  
2-Fluorobiphenyl  
Concen: 0.232 ng  
RT: 13.16 min Scan# 829  
Delta R.T. 0.01 min  
Lab File: BE098387.D  
Acq: 13 Dec 2018 8:56

Instrument :  
BNA\_E  
ClientSampleId :  
PB115545BS

Tot Ion:172 Resp: 2654  
Ion Ratio Lower Upper  
172 100  
171 34.6 27.5 41.3  
170 24.9 19.6 29.4

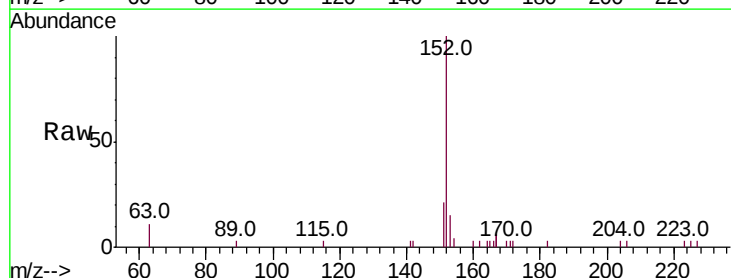


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

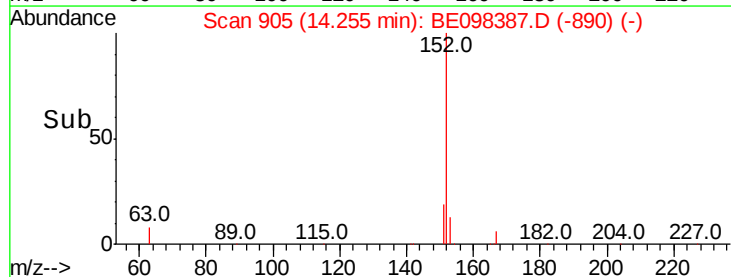
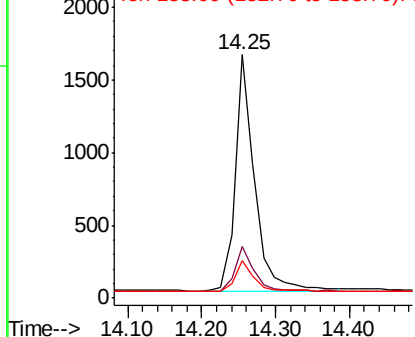


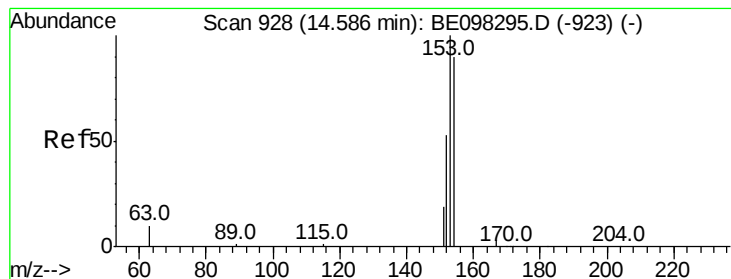
#16  
Acenaphthylene  
Concen: 0.232 ng  
RT: 14.25 min Scan# 905  
Delta R.T. 0.01 min  
Lab File: BE098387.D  
Acq: 13 Dec 2018 8:56

Tgt Ion:152 Resp: 2950  
Ion Ratio Lower Upper  
152 100  
151 19.0 15.5 23.3  
153 13.3 10.6 16.0



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





#17

Acenaphthene

Concen: 0.218 ng

RT: 14.60 min Scan# 929

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

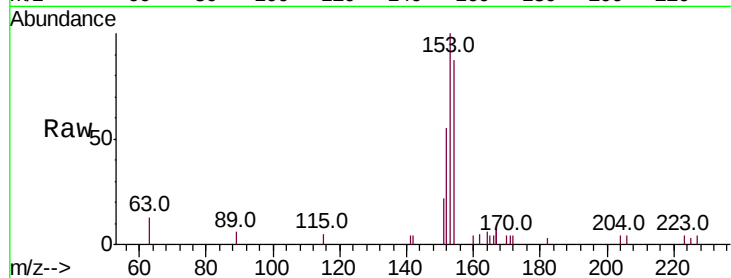
Tot Ion:154 Resp: 1669

Ion Ratio Lower Upper

154 100

153 115.7 91.8 137.6

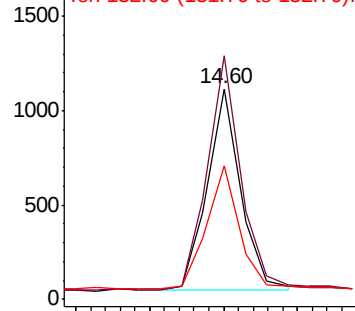
152 60.0 45.5 68.3



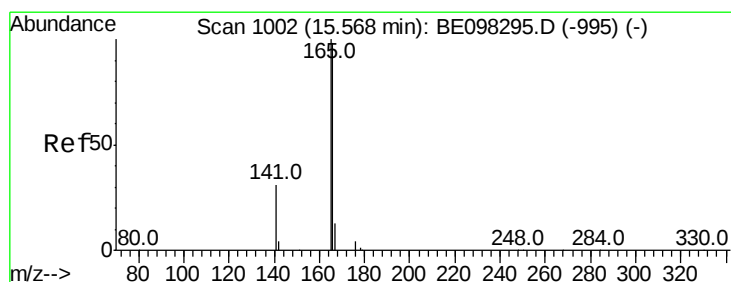
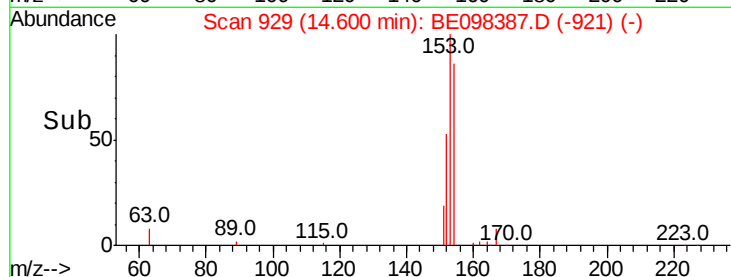
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time--> 14.50 14.55 14.60 14.65



#18

Fluorene

Concen: 0.219 ng

RT: 15.58 min Scan# 1003

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

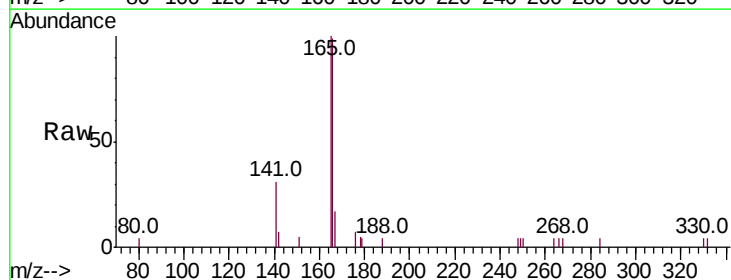
Tgt Ion:166 Resp: 2244

Ion Ratio Lower Upper

166 100

165 98.7 79.3 118.9

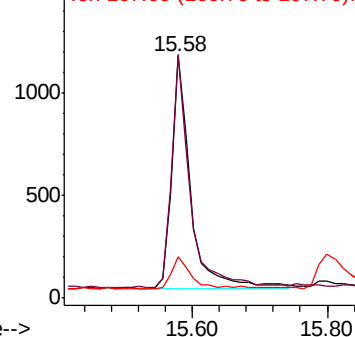
167 14.7 11.3 16.9



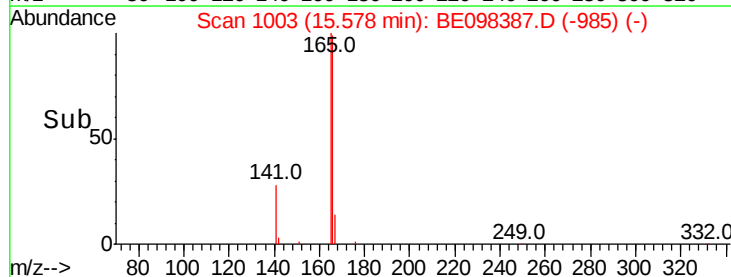
Abundance Ion 166.00 (165.70 to 166.70): E

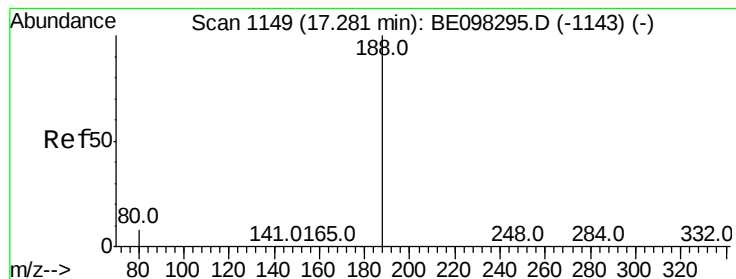
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time--> 15.60 15.80





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

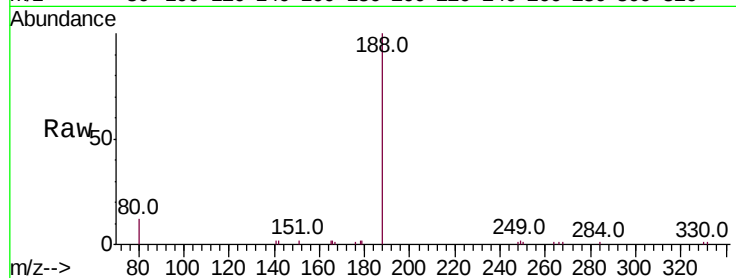
Tot Ion:188 Resp: 7304

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

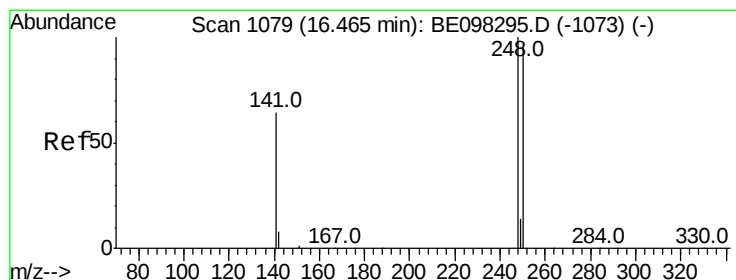
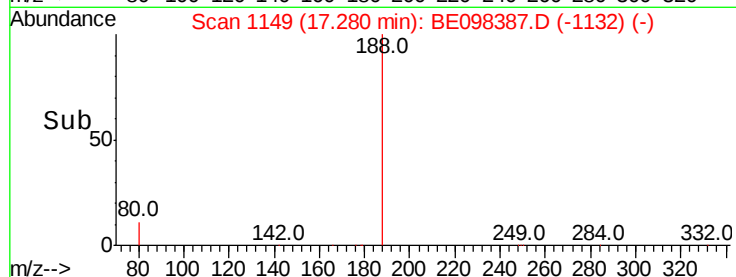
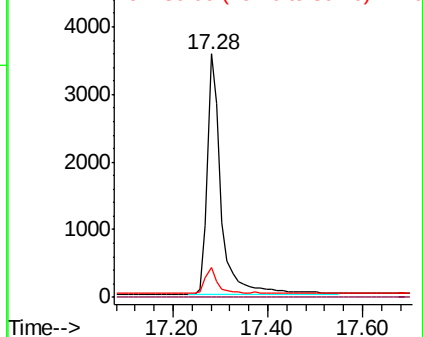
80 12.2 7.2 10.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.186 ng

RT: 16.48 min Scan# 1080

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

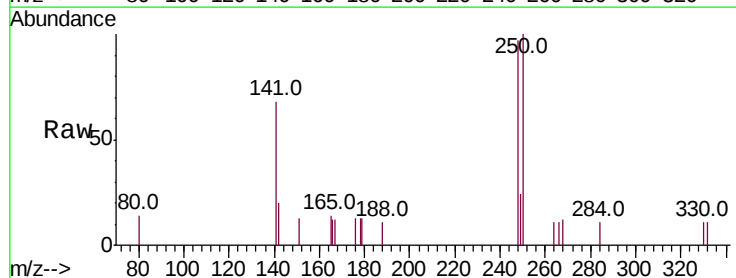
Tgt Ion:248 Resp: 732

Ion Ratio Lower Upper

248 100

250 103.0 71.0 106.6

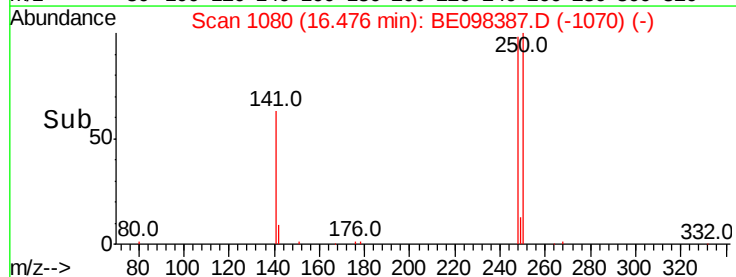
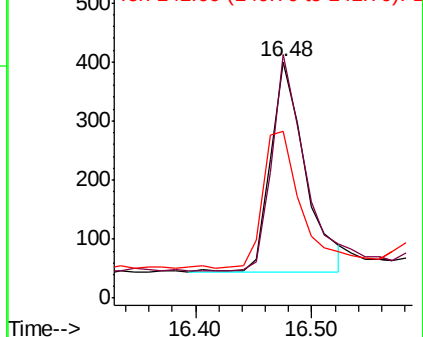
141 70.5 62.1 93.1

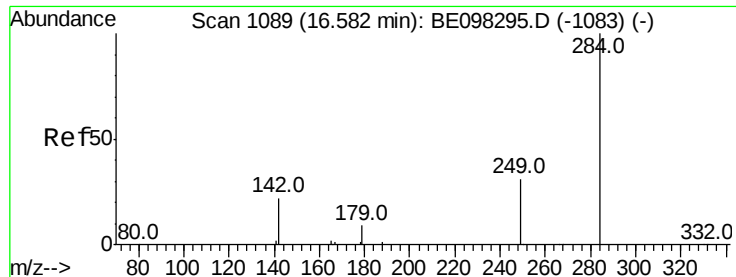


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.210 ng

RT: 16.59 min Scan# 1090

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

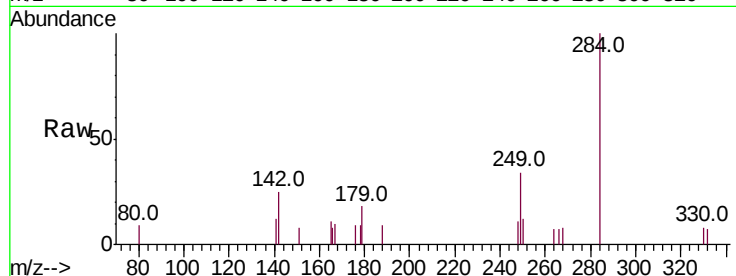
Tot Ion:284 Resp: 887

Ion Ratio Lower Upper

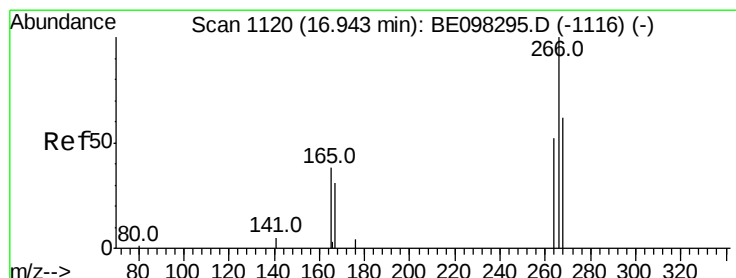
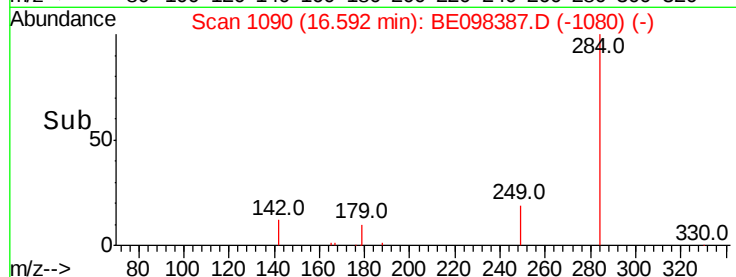
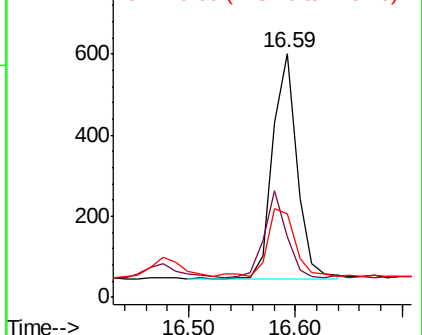
284 100

142 34.6 26.3 39.5

249 31.8 26.0 39.0



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: 0.192 ng

RT: 16.97 min Scan# 1122

Delta R.T. 0.02 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

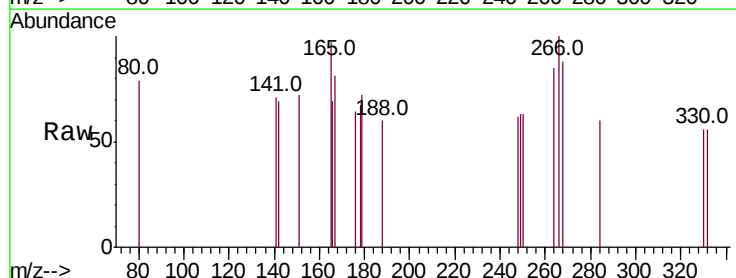
Tgt Ion:266 Resp: 117

Ion Ratio Lower Upper

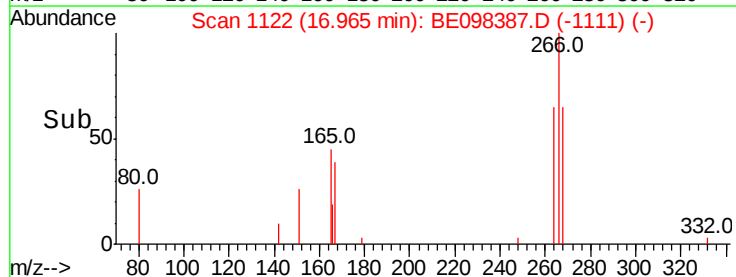
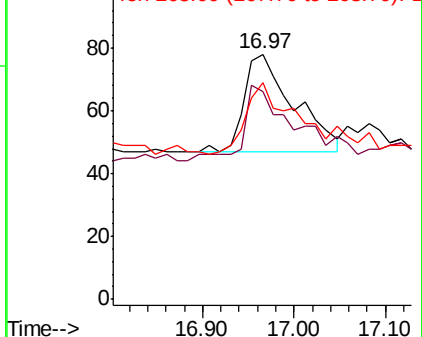
266 100

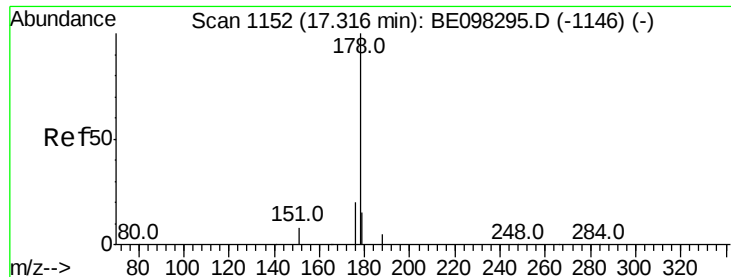
264 84.6 59.0 88.4

268 88.5 55.1 82.7#



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: 0.231 ng

RT: 17.33 min Scan# 1153

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

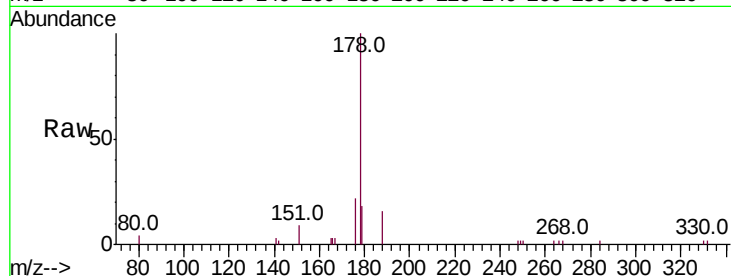
Tot Ion:178 Resp: 4108

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

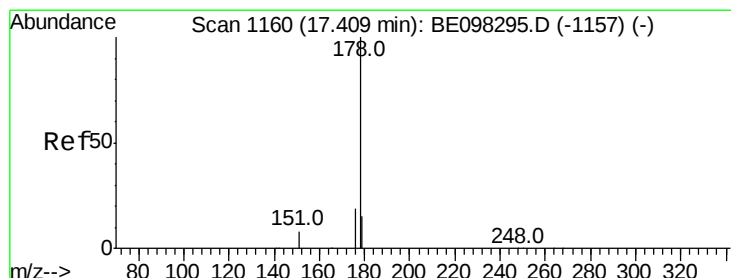
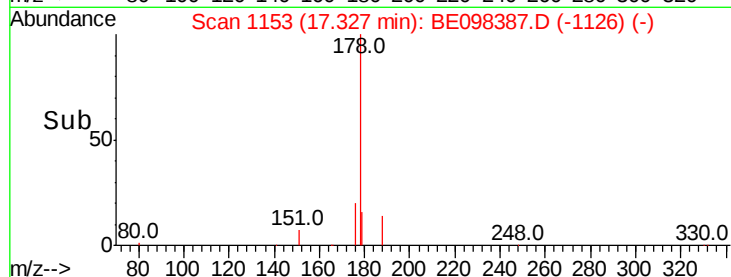
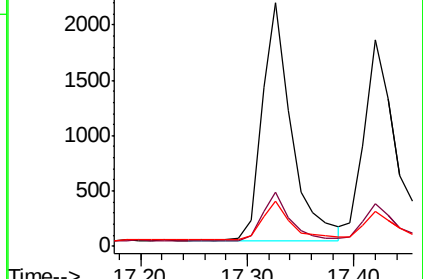
179 16.1 12.3 18.5



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: 0.206 ng

RT: 17.42 min Scan# 1161

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

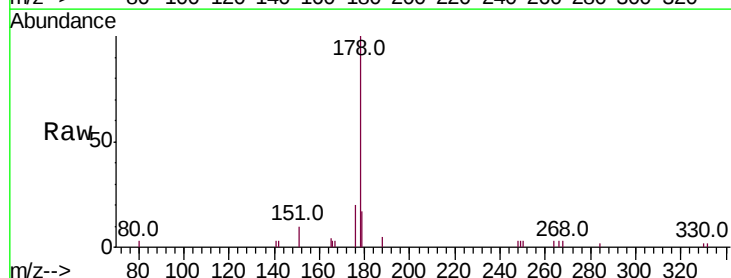
Tgt Ion:178 Resp: 3266

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

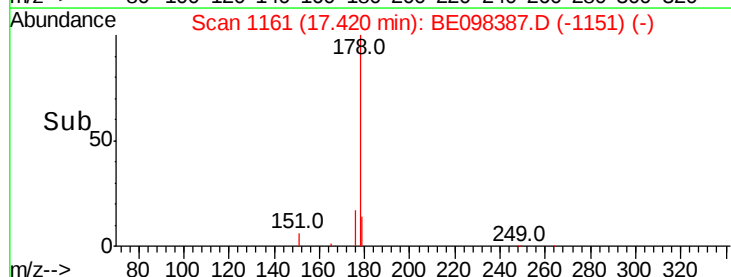
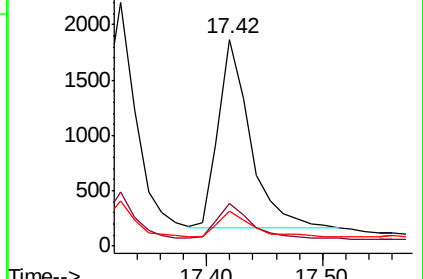
179 14.8 12.3 18.5

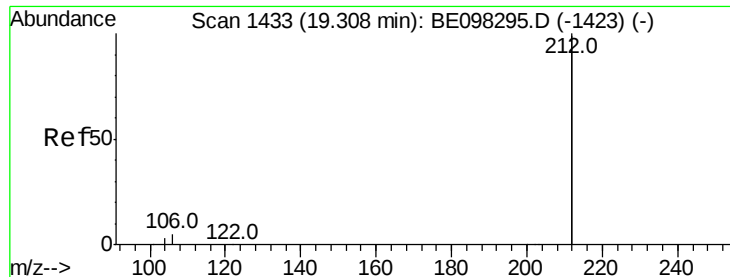


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.248 ng

RT: 19.31 min Scan# 1434

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

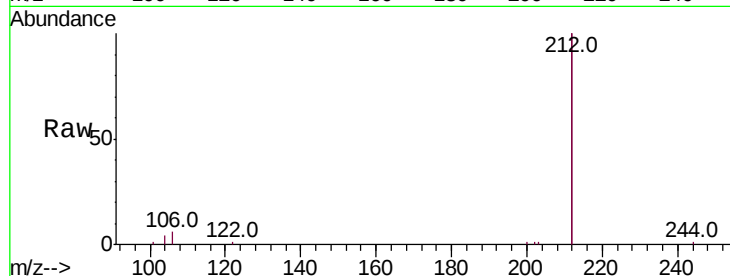
Tot Ion:212 Resp: 23242

Ion Ratio Lower Upper

212 100

106 2.5 2.2 3.2

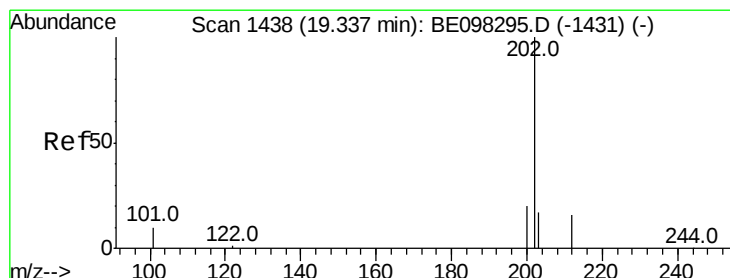
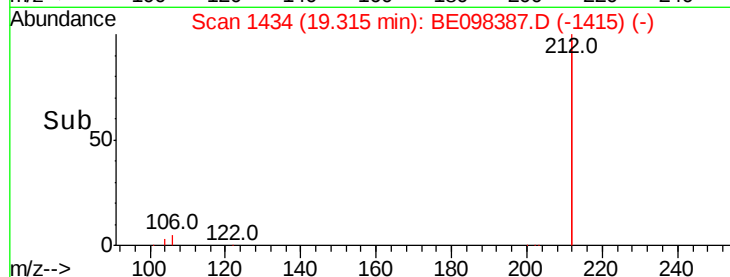
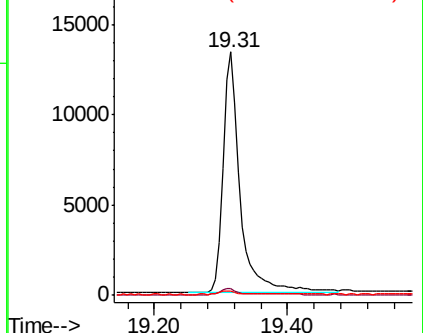
104 1.6 1.3 1.9



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: 0.248 ng

RT: 19.34 min Scan# 1439

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

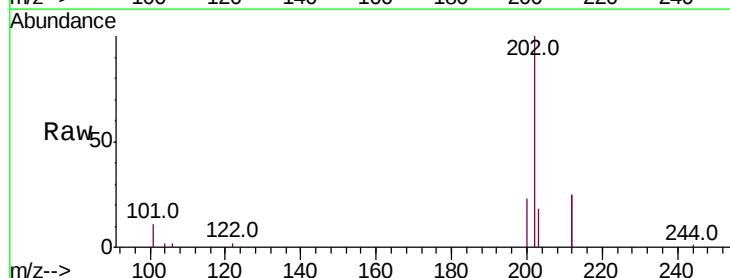
Tgt Ion:202 Resp: 5821

Ion Ratio Lower Upper

202 100

101 9.7 8.0 12.0

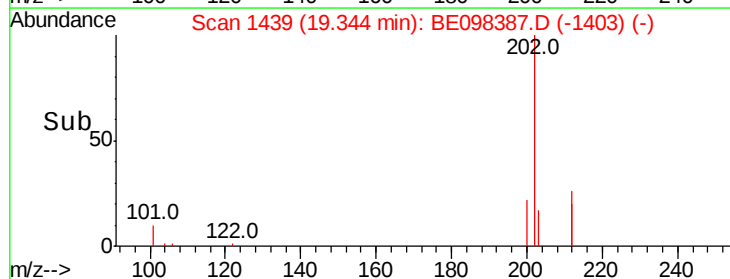
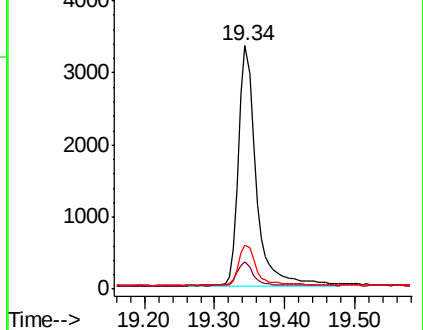
203 16.8 13.8 20.6

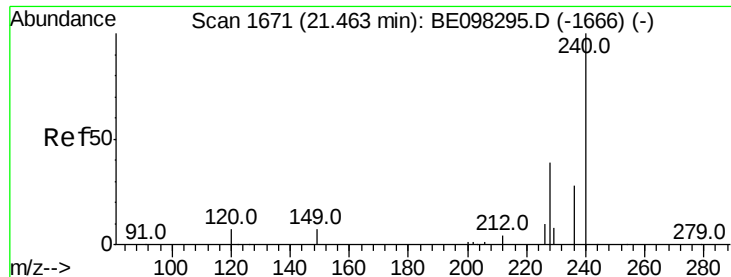


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

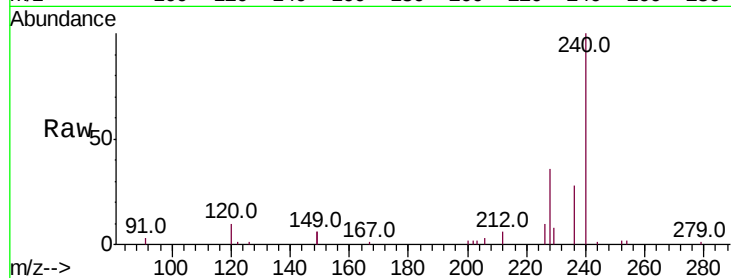
Tot Ion:240 Resp: 9470

Ion Ratio Lower Upper

240 100

120 10.1 9.5 14.3

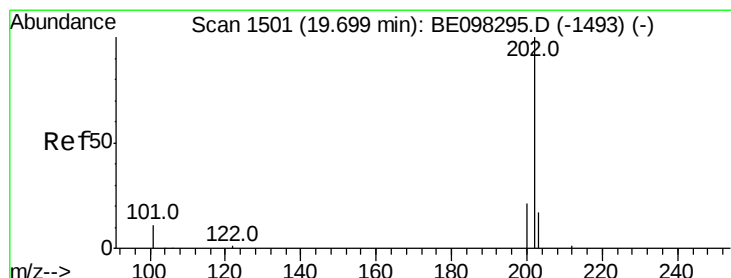
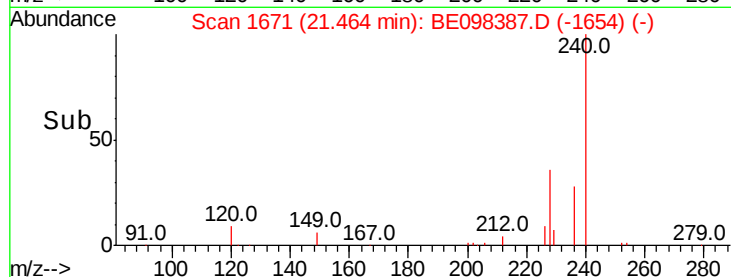
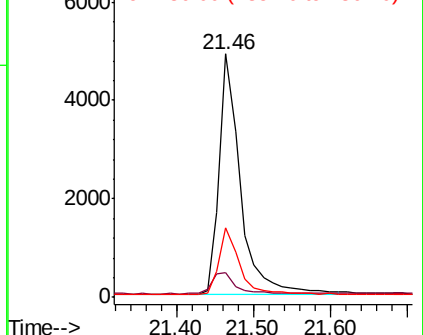
236 28.5 22.7 34.1



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: 0.197 ng

RT: 19.71 min Scan# 1502

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

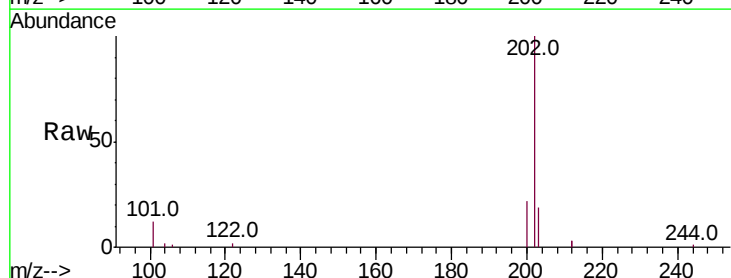
Tgt Ion:202 Resp: 5847

Ion Ratio Lower Upper

202 100

200 20.0 16.7 25.1

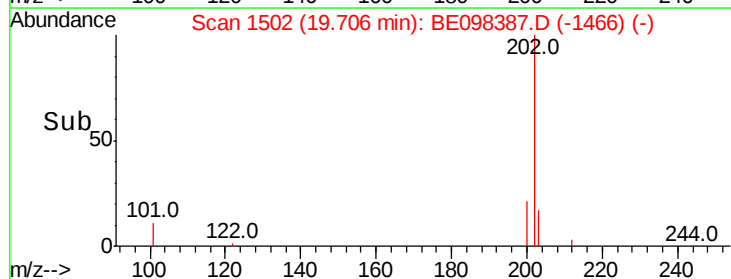
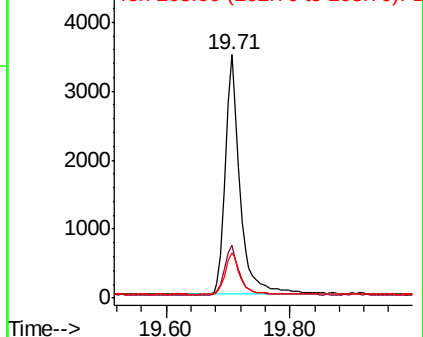
203 17.9 14.1 21.1

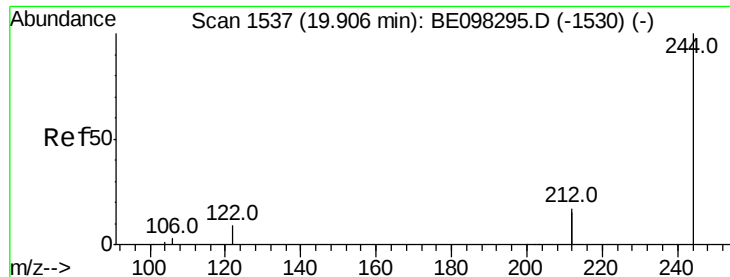


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.187 ng

RT: 19.91 min Scan# 1538

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

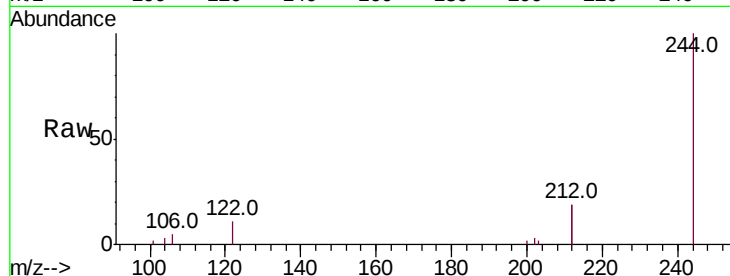
Tot Ion:244 Resp: 4294

Ion Ratio Lower Upper

244 100

212 37.9 27.4 41.0

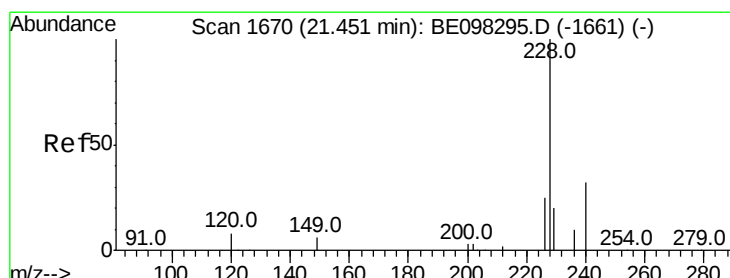
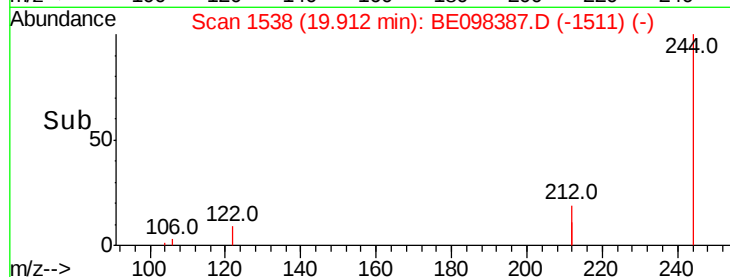
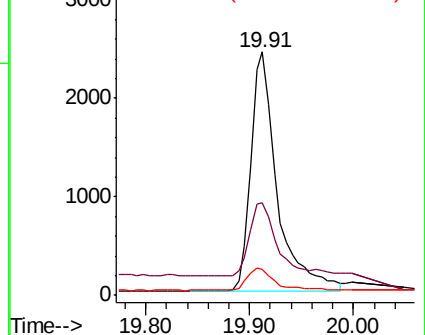
122 10.6 8.3 12.5



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: 0.217 ng

RT: 21.45 min Scan# 1670

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

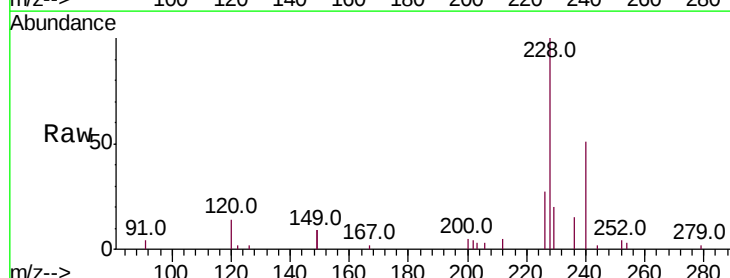
Tgt Ion:228 Resp: 5852

Ion Ratio Lower Upper

228 100

226 27.4 21.8 32.8

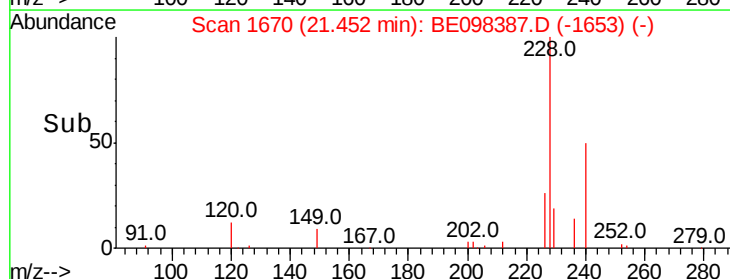
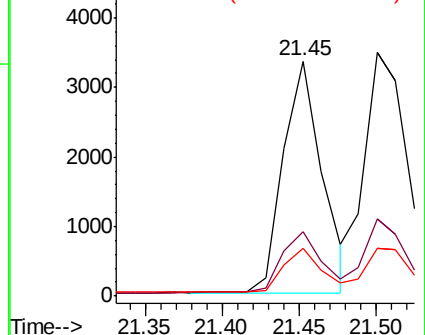
229 20.4 16.3 24.5

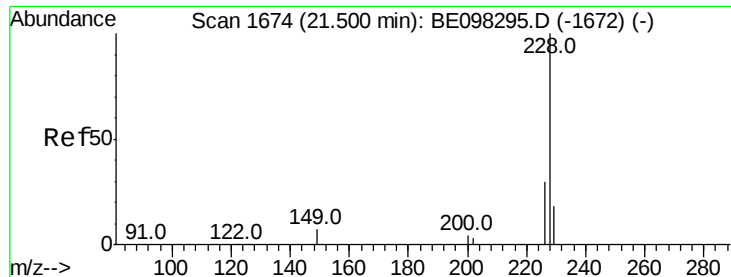


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.238 ng

RT: 21.50 min Scan# 1674

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

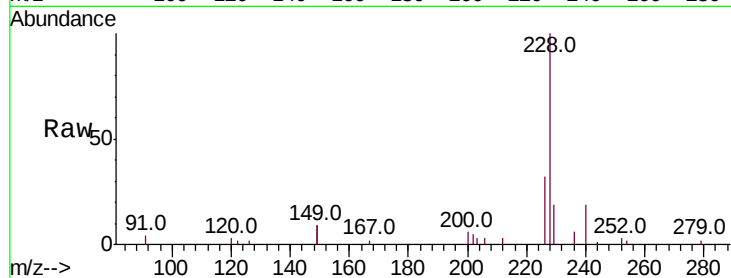
Tot Ion:228 Resp: 6714

Ion Ratio Lower Upper

228 100

226 31.7 23.4 35.0

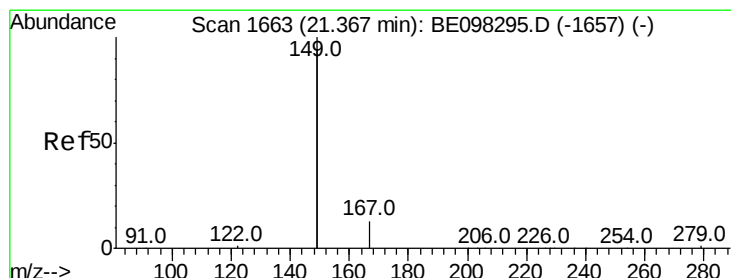
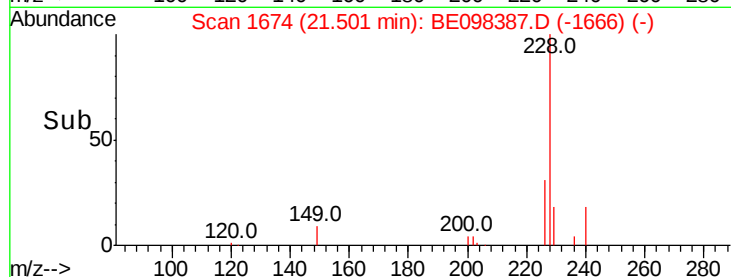
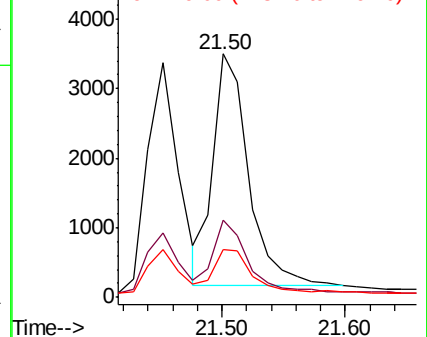
229 19.4 16.2 24.4



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.184 ng

RT: 21.37 min Scan# 1663

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

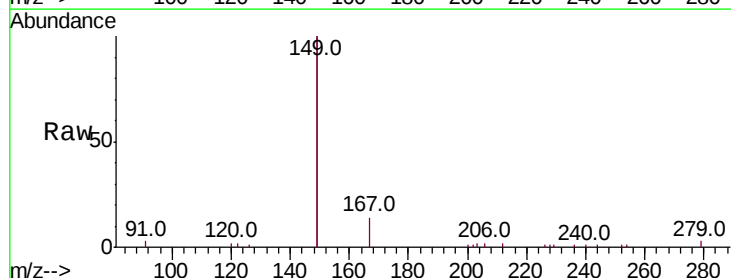
Tgt Ion:149 Resp: 10096

Ion Ratio Lower Upper

149 100

167 6.9 5.7 8.5

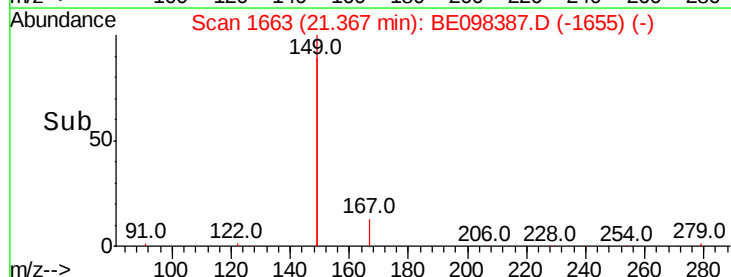
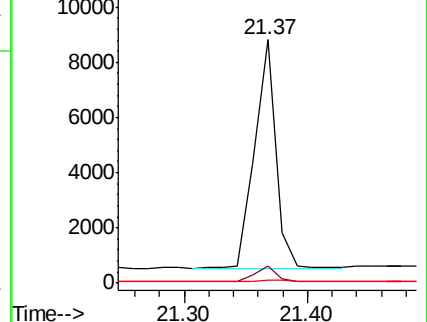
279 1.2 1.0 1.4

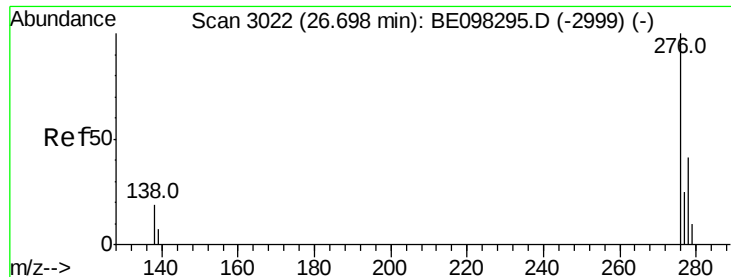


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.231 ng

RT: 26.72 min Scan# 3027

Delta R.T. 0.02 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

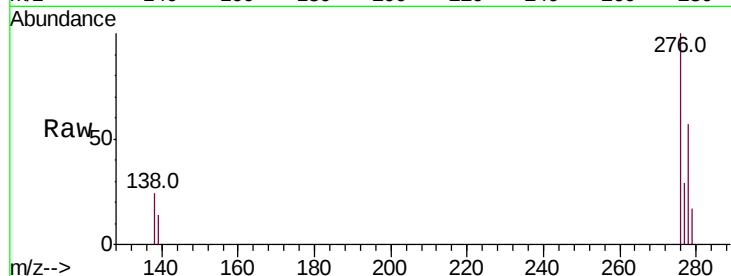
Tot Ion:276 Resp: 6496

Ion Ratio Lower Upper

276 100

138 7.1 16.3 24.5#

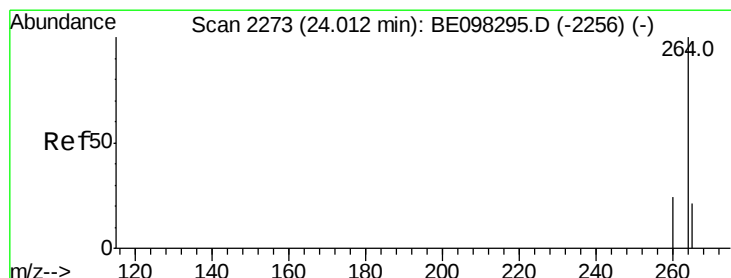
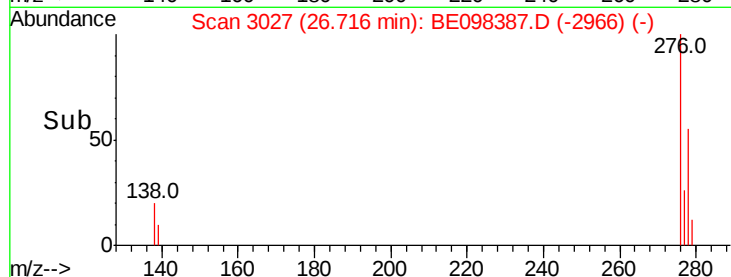
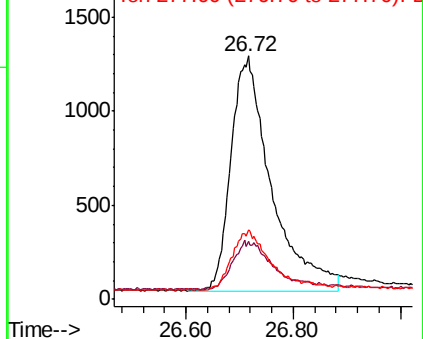
277 23.3 20.2 30.4



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: 24.01 min Scan# 2273

Delta R.T. -0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

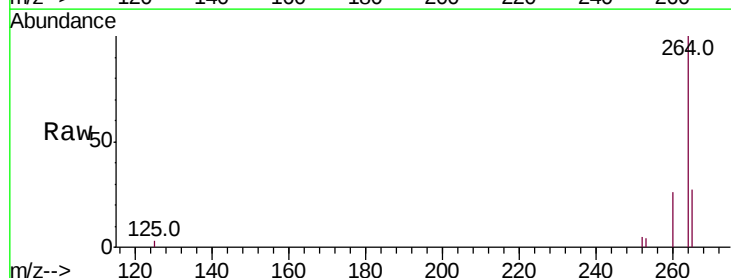
Tgt Ion:264 Resp: 8818

Ion Ratio Lower Upper

264 100

260 25.9 20.2 30.2

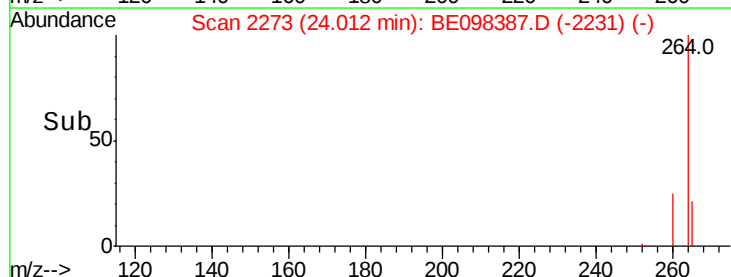
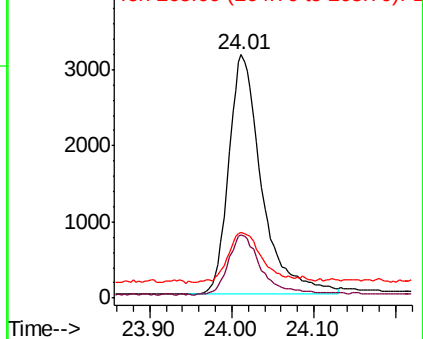
265 26.9 25.2 37.8

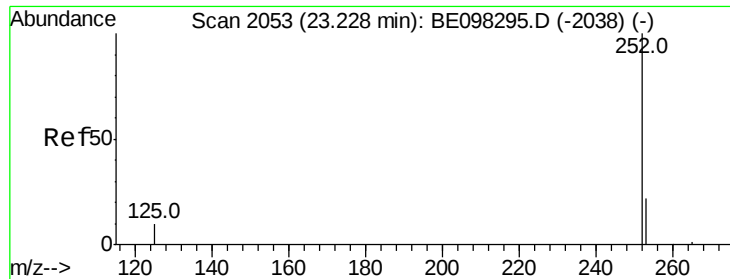


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.232 ng

RT: 23.23 min Scan# 2054

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

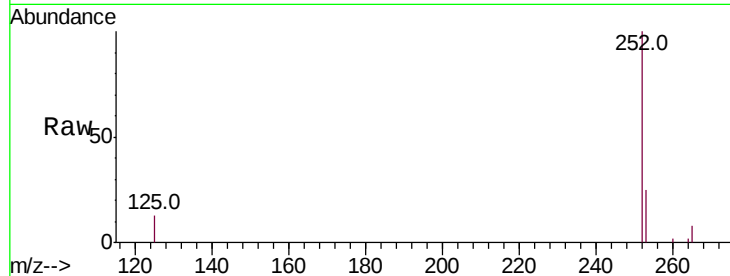
Tot Ion:252 Resp: 5594

Ion Ratio Lower Upper

252 100

253 25.3 20.0 30.0

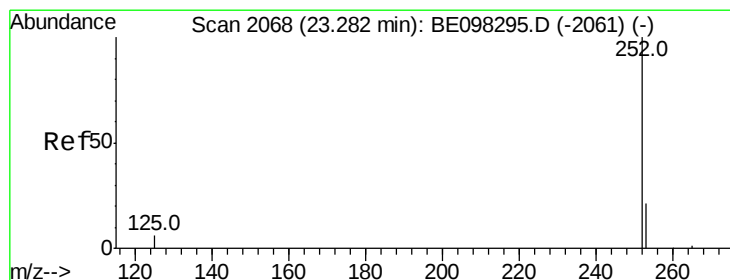
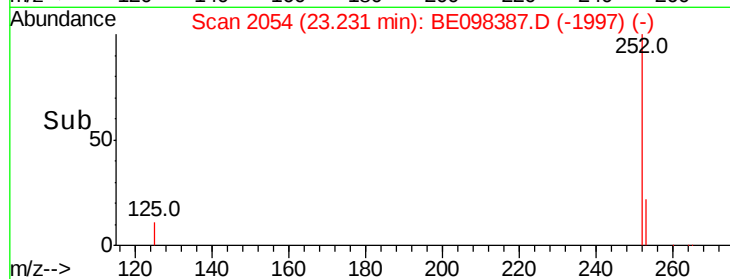
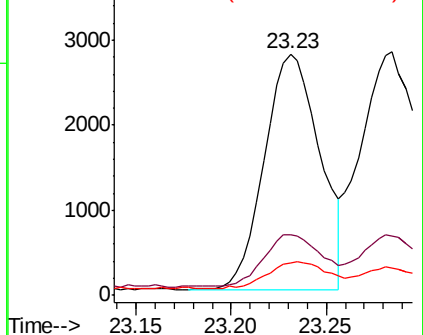
125 13.4 9.6 14.4



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: 0.241 ng

RT: 23.28 min Scan# 2069

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

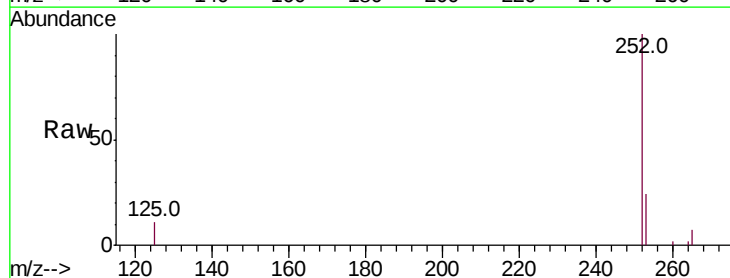
Tgt Ion:252 Resp: 6773

Ion Ratio Lower Upper

252 100

253 24.4 19.0 28.6

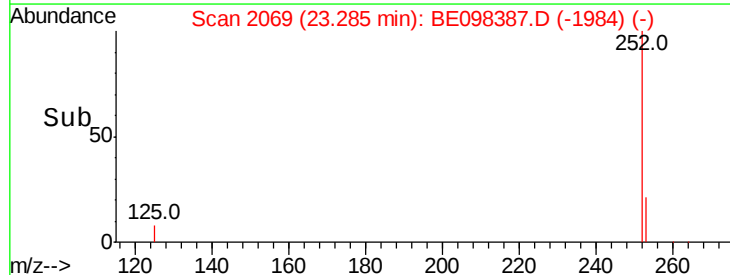
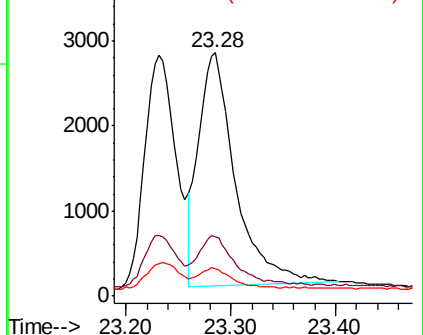
125 11.0 9.1 13.7

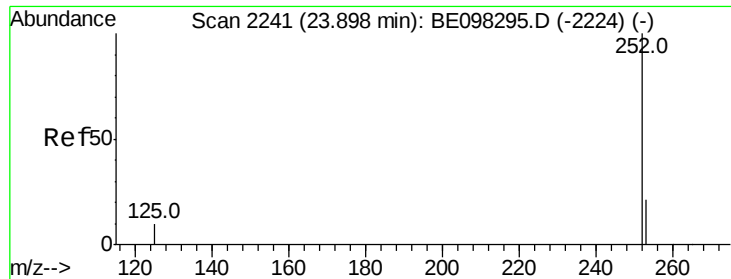


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.246 ng

RT: 23.90 min Scan# 2242

Delta R.T. 0.00 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

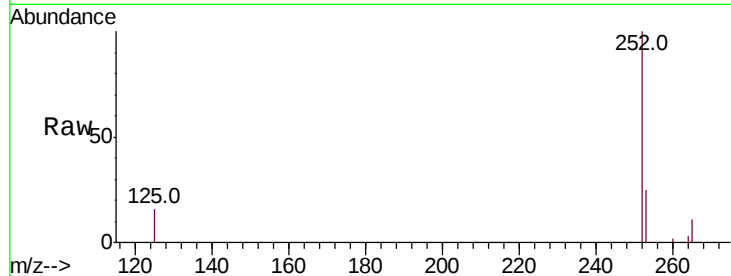
Tot Ion:252 Resp: 6132

Ion Ratio Lower Upper

252 100

253 25.3 20.6 30.8

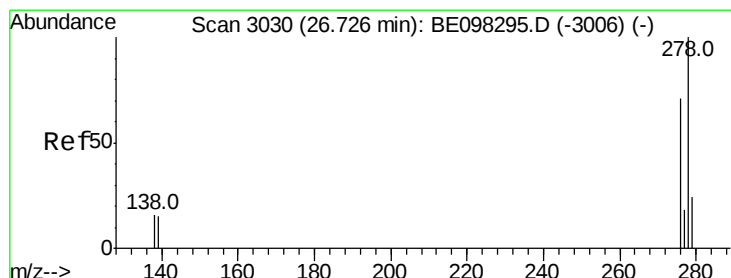
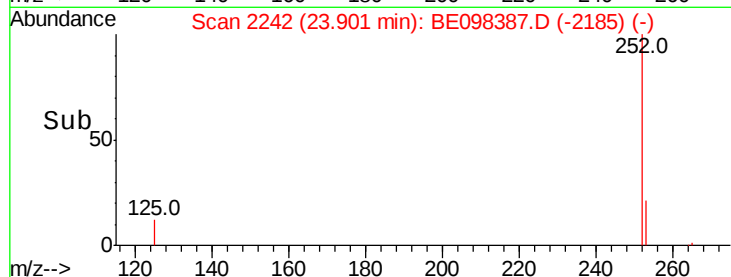
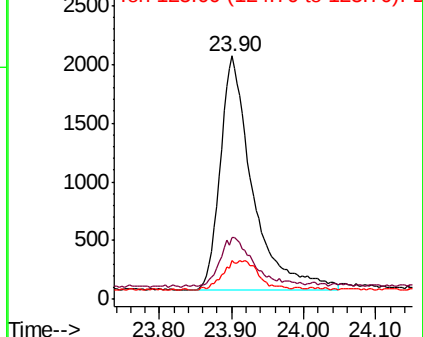
125 15.8 10.5 15.7#



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: 0.218 ng

RT: 26.74 min Scan# 3033

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

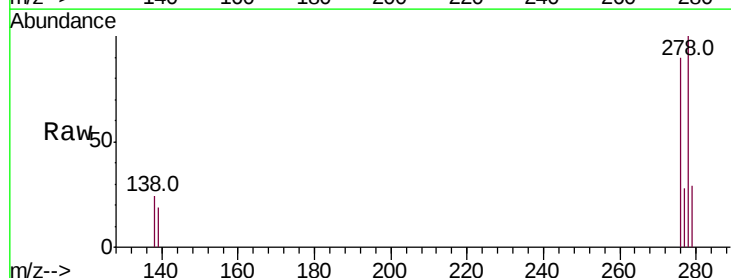
Tgt Ion:278 Resp: 5103

Ion Ratio Lower Upper

278 100

139 19.4 14.5 21.7

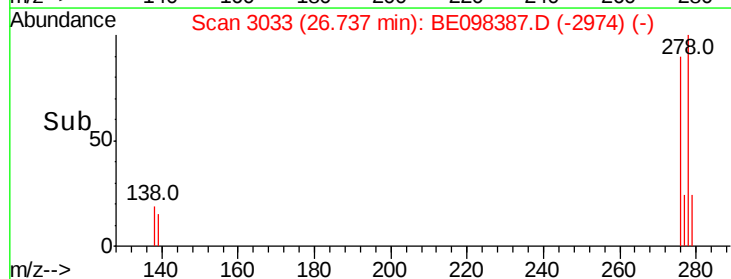
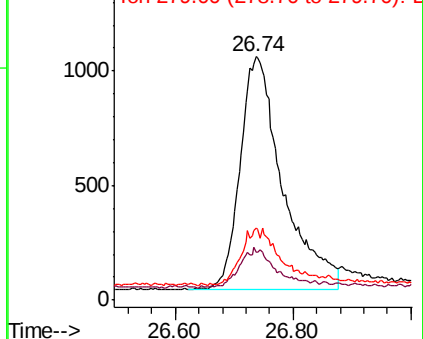
279 29.4 21.8 32.8

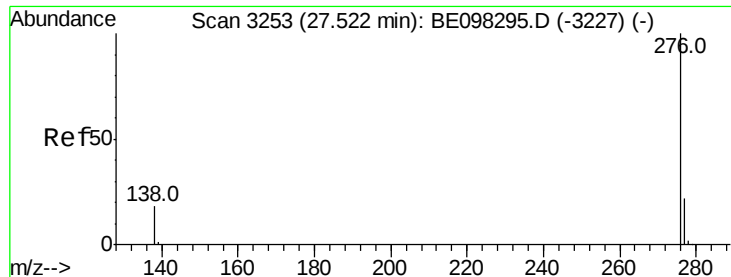


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.241 ng

RT: 27.53 min Scan# 3255

Delta R.T. 0.01 min

Lab File: BE098387.D

Acq: 13 Dec 2018 8:56

Instrument :

BNA\_E

ClientSampleId :

PB115545BS

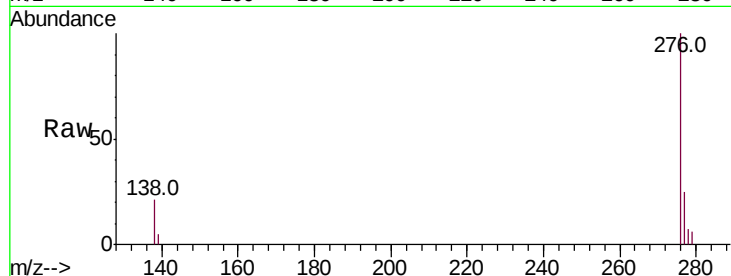
Tot Ion:276 Resp: 5683

Ion Ratio Lower Upper

276 100

277 25.0 20.8 31.2

138 21.4 15.8 23.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

