

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052419\  
 Data File : BE099747.D  
 Acq On : 24 May 2019 17:57  
 Operator : JU/SJ  
 Sample : PB120039BS  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 24 21:34:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 19:29:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 1246     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.60 | 136  | 4272     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.47 | 164  | 2827     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.21 | 188  | 8262     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.40 | 240  | 14078    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.94 | 264  | 17454    | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.37  | 112  | 1496     | 0.48 | ng    | 0.00     |
| 5) Phenol-d6                | 6.97  | 99   | 1828     | 0.44 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.96  | 82   | 1634     | 0.44 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152  | 4017     | 0.54 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330  | 749      | 0.48 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.10 | 172  | 4553     | 0.42 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.25 | 212  | 45855    | 0.41 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.85 | 244  | 10571    | 0.42 | ng    | -0.02    |

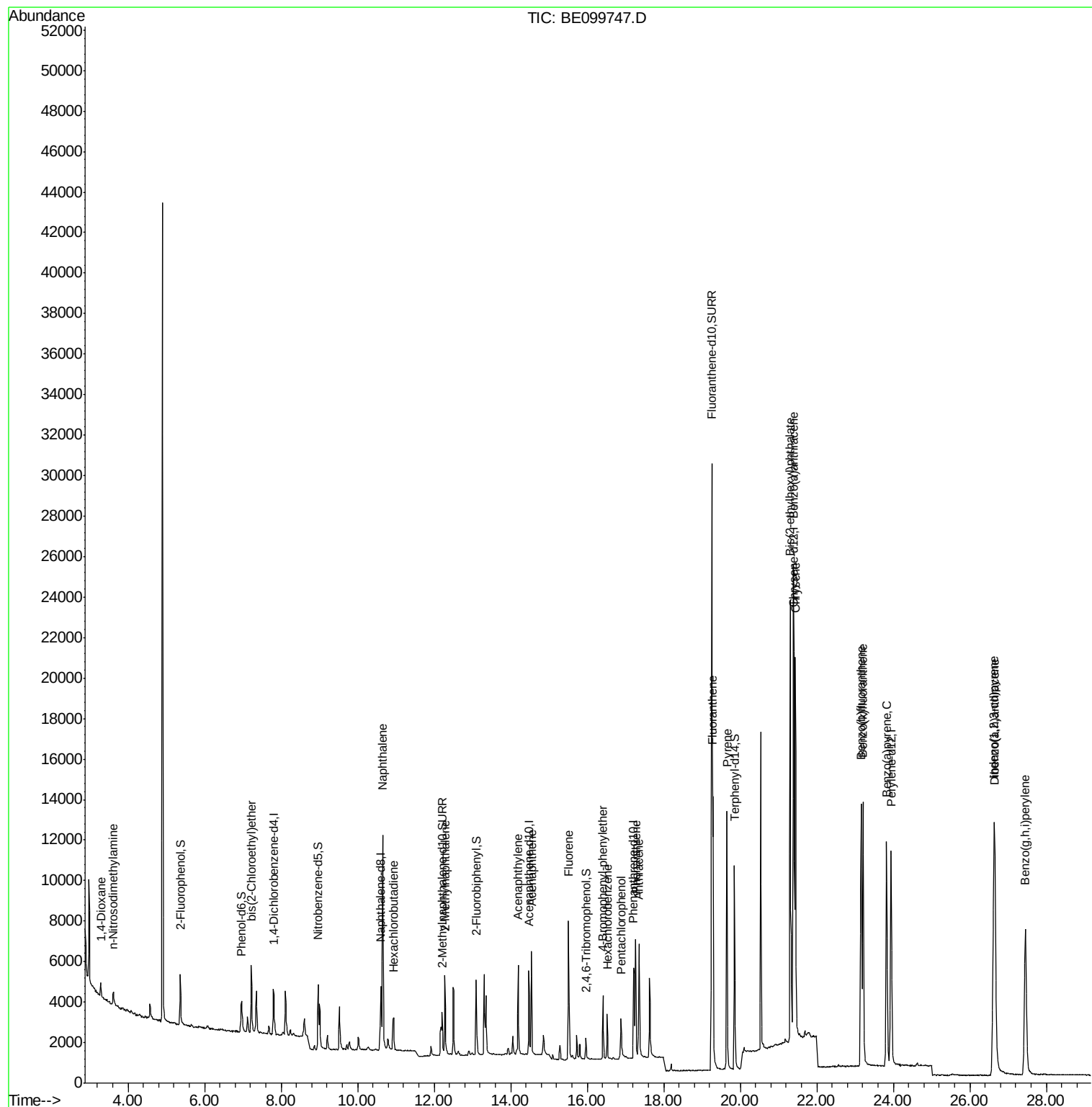
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.29  | 88   | 520      | 0.282 | ng    | # 82   |
| 3) n-Nitrosodimethylamine      | 3.60  | 42   | 564      | 0.554 | ng    | # 91   |
| 6) bis(2-Chloroethyl)ether     | 7.22  | 93   | 1466     | 0.395 | ng    | 100    |
| 9) Naphthalene                 | 10.65 | 128  | 18249    | 0.399 | ng    | 100    |
| 10) Hexachlorobutadiene        | 10.94 | 225  | 1344     | 0.400 | ng    | 96     |
| 12) 2-Methylnaphthalene        | 12.28 | 142  | 2979     | 0.400 | ng    | 98     |
| 16) Acenaphthylene             | 14.20 | 152  | 5324     | 0.404 | ng    | 100    |
| 17) Acenaphthene               | 14.54 | 154  | 2916     | 0.394 | ng    | 97     |
| 18) Fluorene                   | 15.51 | 166  | 4322     | 0.397 | ng    | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.41 | 248  | 1850     | 0.388 | ng    | # 90   |
| 21) Hexachlorobenzene          | 16.52 | 284  | 1904     | 0.391 | ng    | 97     |
| 22) Pentachlorophenol          | 16.88 | 266  | 1741     | 1.221 | ng    | 93     |
| 23) Phenanthrene               | 17.27 | 178  | 7933     | 0.393 | ng    | 100    |
| 24) Anthracene                 | 17.35 | 178  | 7202     | 0.393 | ng    | 98     |
| 26) Fluoranthene               | 19.29 | 202  | 12856    | 0.403 | ng    | 100    |
| 28) Pyrene                     | 19.65 | 202  | 13496    | 0.382 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.39 | 228  | 18849    | 0.471 | ng    | 99     |
| 31) Chrysene                   | 21.44 | 228  | 19052    | 0.445 | ng    | 99     |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149  | 23744    | 0.515 | ng    | 99     |
| 33) Indeno(1,2,3-cd)pyrene     | 26.63 | 276  | 24162    | 0.468 | ng    | 98     |
| 35) Benzo(b)fluoranthene       | 23.16 | 252  | 19490    | 0.408 | ng    | 98     |
| 36) Benzo(k)fluoranthene       | 23.21 | 252  | 20618    | 0.414 | ng    | 99     |
| 37) Benzo(a)pyrene             | 23.82 | 252  | 19919    | 0.433 | ng    | 98     |
| 38) Dibenzo(a,h)anthracene     | 26.66 | 278  | 20082    | 0.416 | ng    | 98     |
| 39) Benzo(g,h,i)perylene       | 27.45 | 276  | 20655    | 0.423 | ng    | 98     |

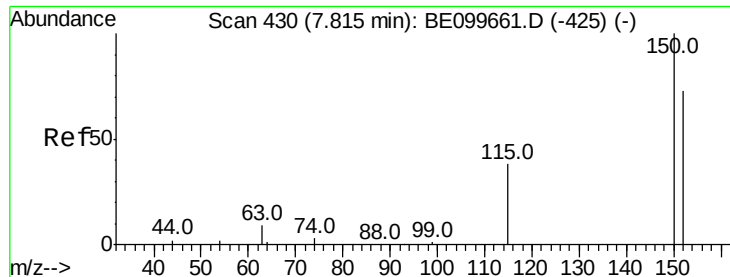
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon May 20 19:29:40 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.80 min Scan# 428

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

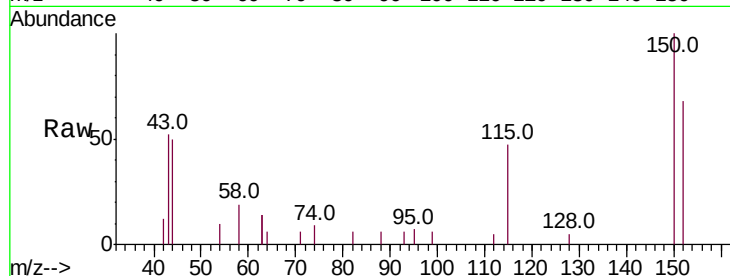
Tot Ion:152 Resp: 1246

Ion Ratio Lower Upper

152 100

150 147.0 109.2 163.8

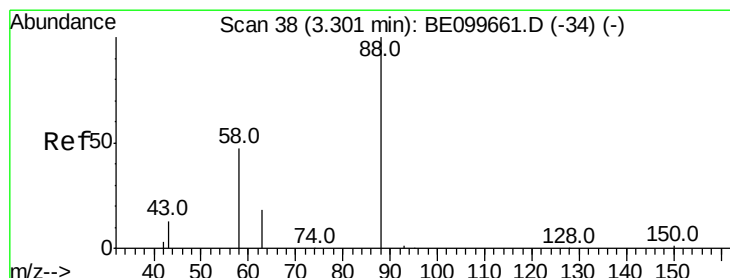
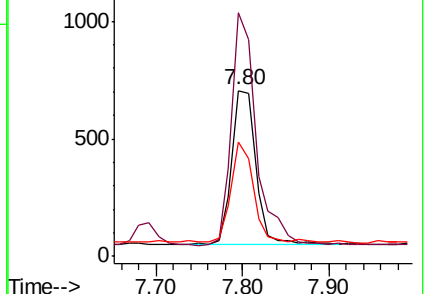
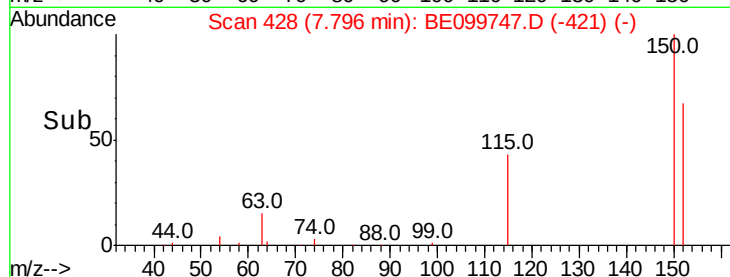
115 68.7 43.7 65.5#



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: 0.282 ng

RT: 3.29 min Scan# 37

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

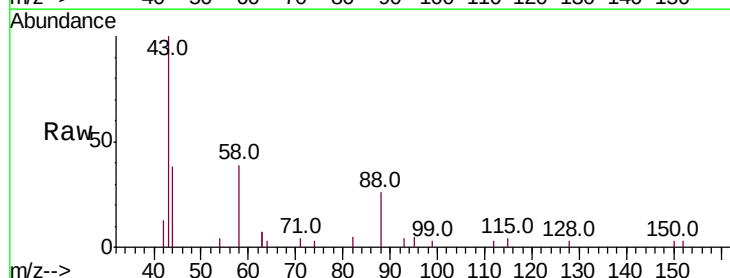
Tgt Ion: 88 Resp: 520

Ion Ratio Lower Upper

88 100

58 58.7 41.8 62.8

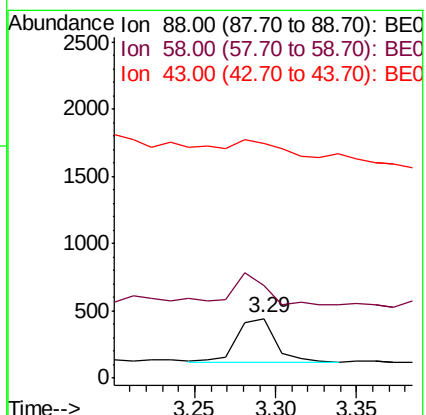
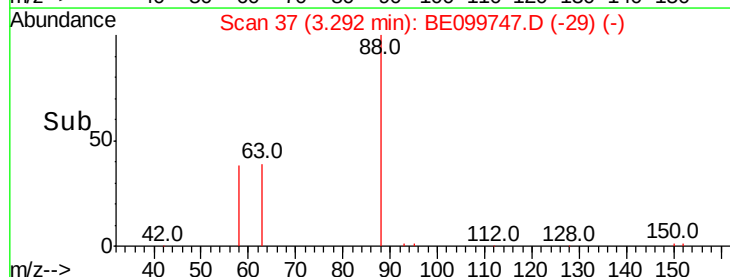
43 0.0 15.0 22.4#

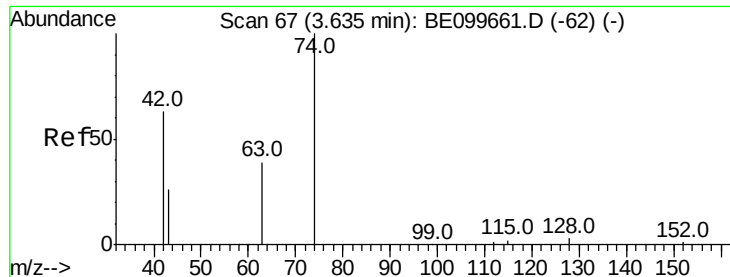


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



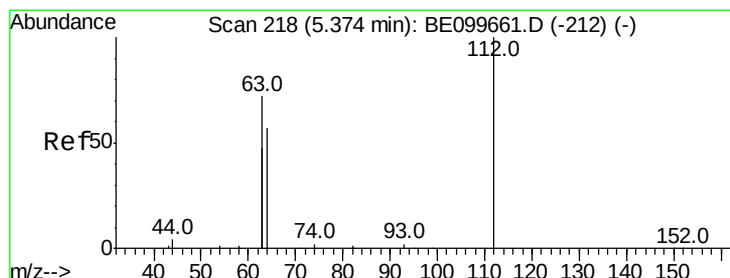
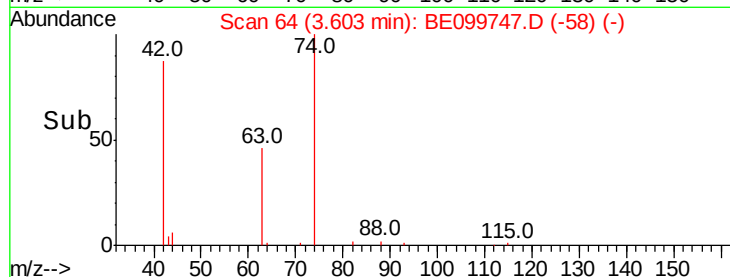
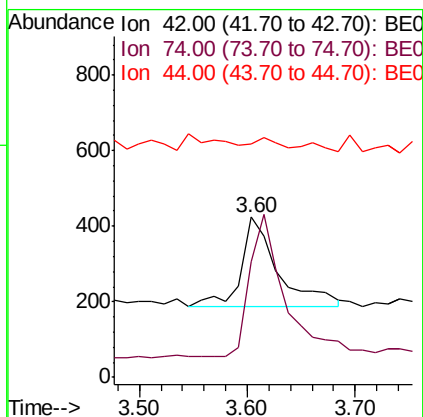
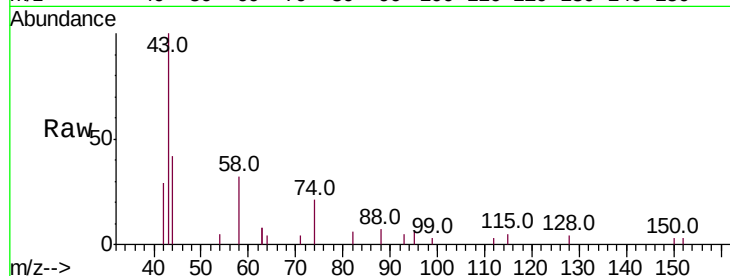


#3

n-Nitrosodimethylamine  
 Concen: 0.554 ng  
 RT: 3.60 min Scan# 64  
 Delta R.T. -0.03 min  
 Lab File: BE099747.D  
 Acq: 24 May 2019 17:57

Instrument :  
 BNA\_E  
 ClientSampled :

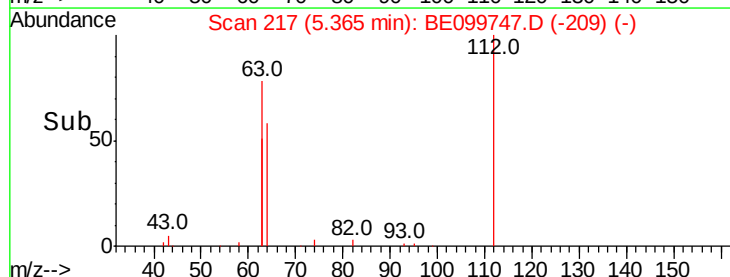
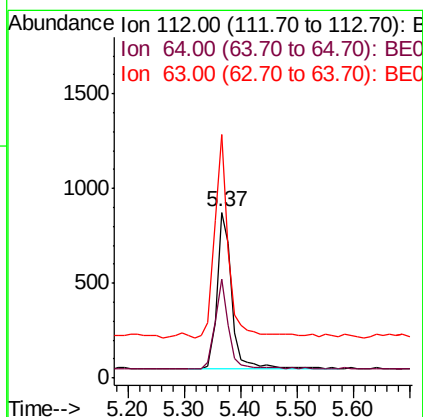
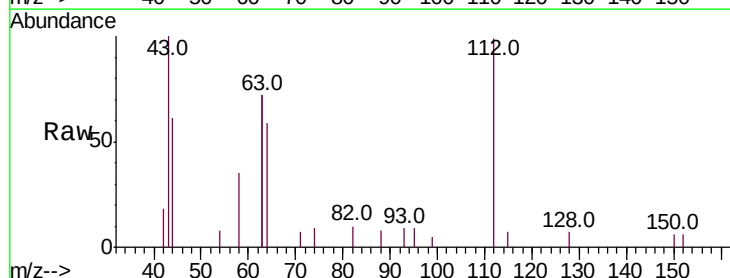
Tot Ion: 42 Resp: 564  
 Ion Ratio Lower Upper  
 42 100  
 74 149.3 129.2 193.8  
 44 5.0 0.0 0.0#

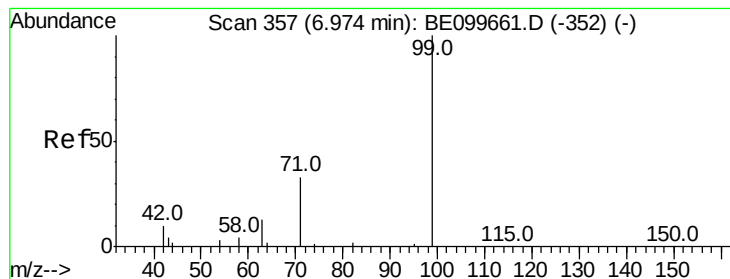


#4

2-Fluorophenol  
 Concen: 0.475 ng  
 RT: 5.37 min Scan# 217  
 Delta R.T. -0.01 min  
 Lab File: BE099747.D  
 Acq: 24 May 2019 17:57

Tgt Ion: 112 Resp: 1496  
 Ion Ratio Lower Upper  
 112 100  
 64 52.1 43.4 65.2  
 63 117.3 96.9 145.3





#5

Phenol-d6

Concen: 0.439 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

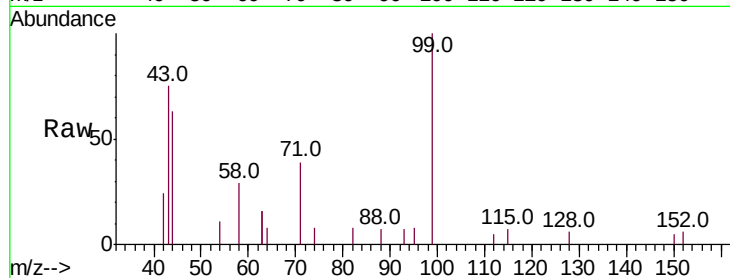
Tot Ion: 99 Resp: 1828

Ion Ratio Lower Upper

99 100

42 19.7 12.2 18.2#

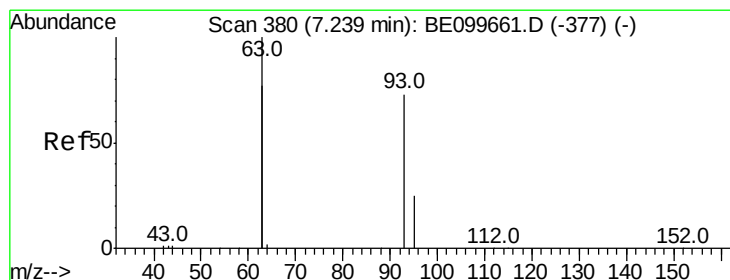
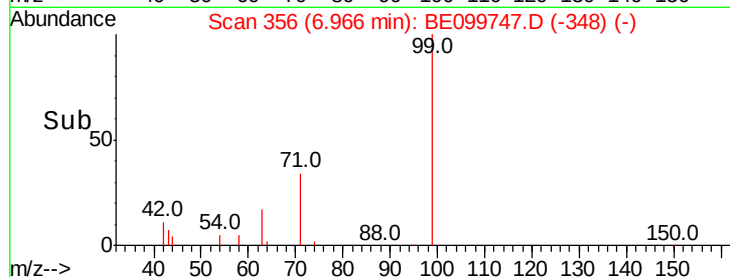
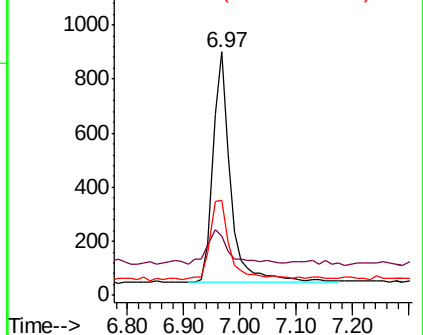
71 37.5 28.9 43.3



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: 0.395 ng

RT: 7.22 min Scan# 378

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

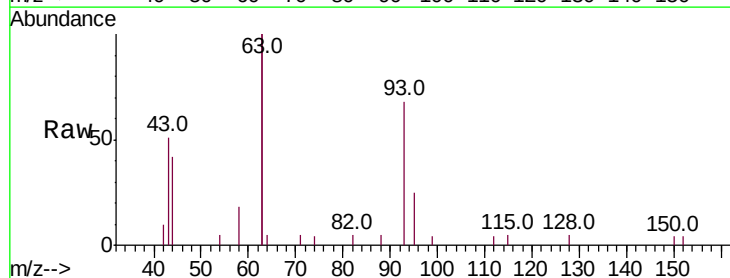
Tgt Ion: 93 Resp: 1466

Ion Ratio Lower Upper

93 100

63 260.2 207.8 311.6

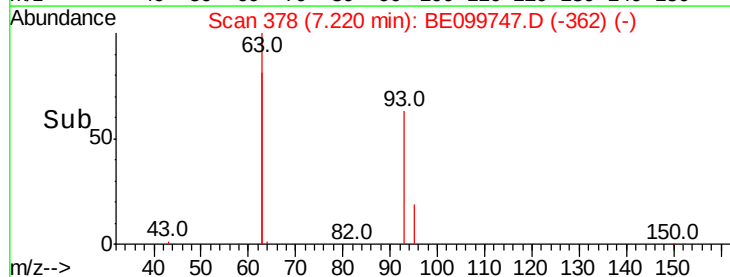
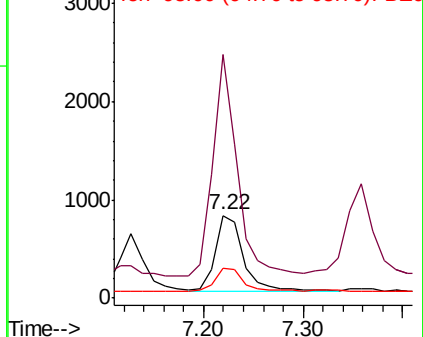
95 32.9 25.9 38.9

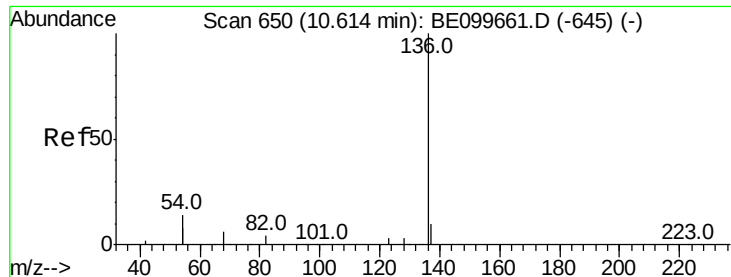


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.60 min Scan# 649

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 4272

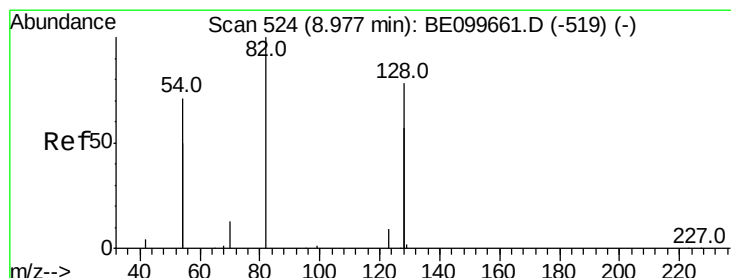
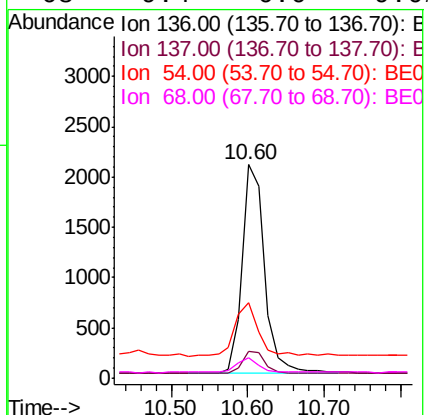
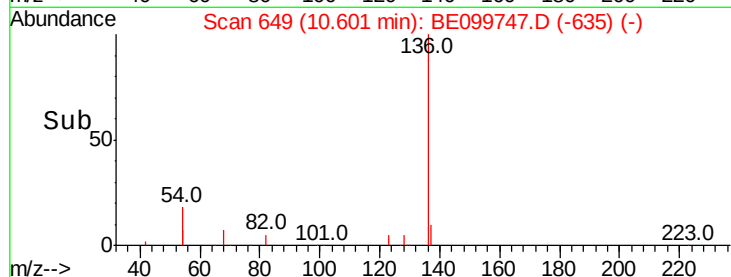
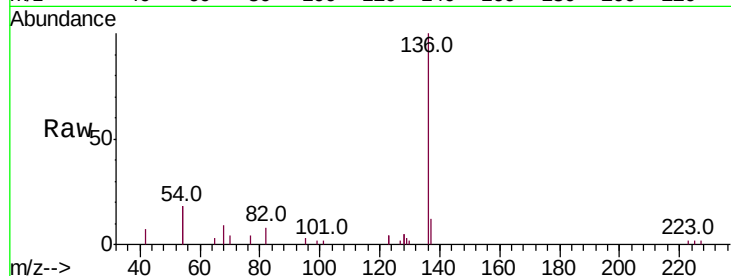
Ion Ratio Lower Upper

136 100

137 12.4 9.0 13.6

54 35.6 22.3 33.5#

68 9.4 6.0 9.0#



#8

Nitrobenzene-d5

Concen: 0.442 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

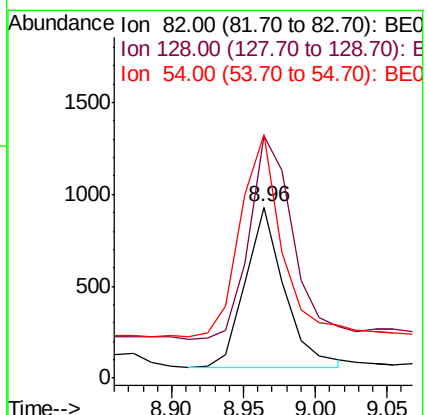
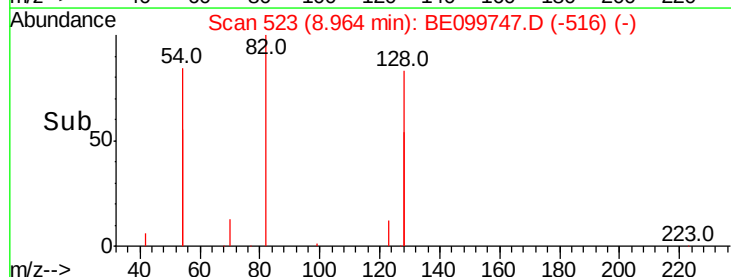
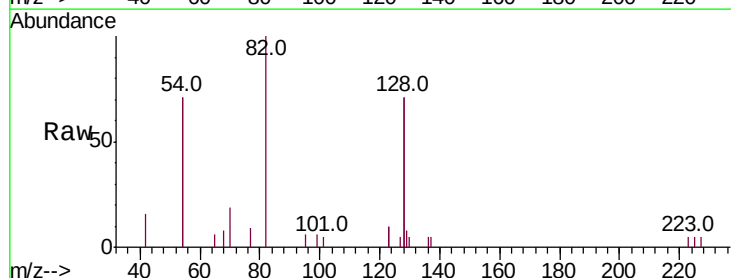
Tgt Ion: 82 Resp: 1634

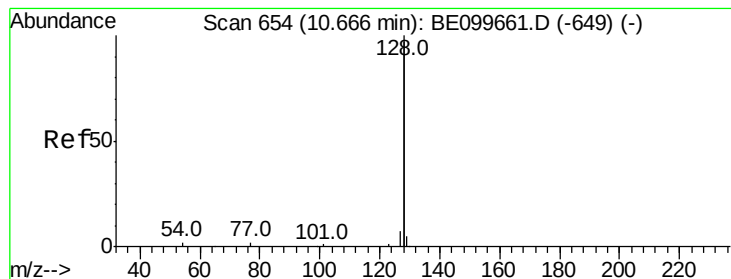
Ion Ratio Lower Upper

82 100

128 141.7 117.7 176.5

54 142.7 106.6 160.0





#9

Naphthalene

Concen: 0.399 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampled :

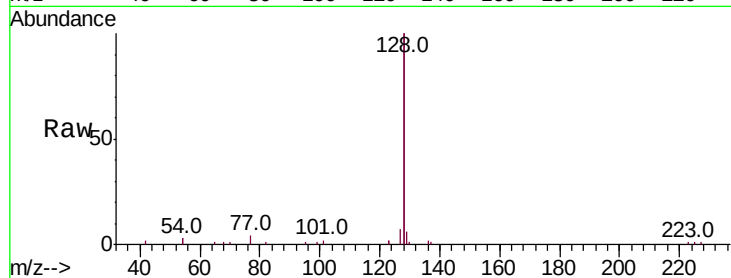
Tot Ion:128 Resp: 18249

Ion Ratio Lower Upper

128 100

129 3.1 2.4 3.6

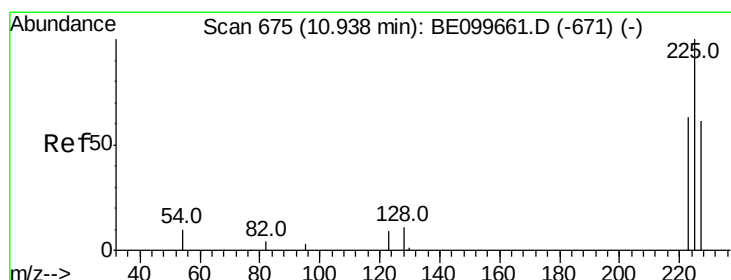
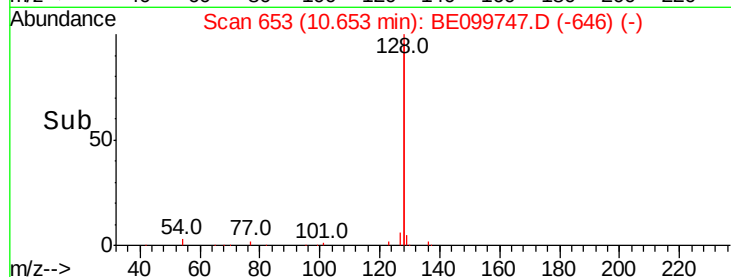
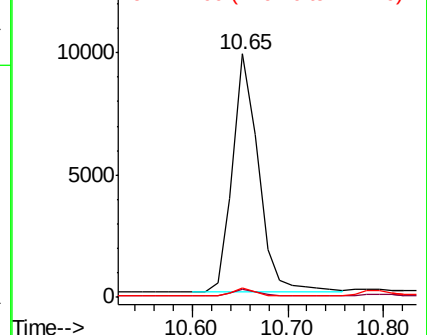
127 3.7 2.9 4.3



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: 0.400 ng

RT: 10.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

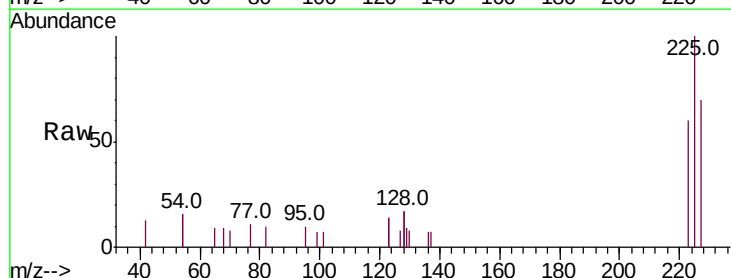
Tgt Ion:225 Resp: 1344

Ion Ratio Lower Upper

225 100

223 60.9 51.8 77.6

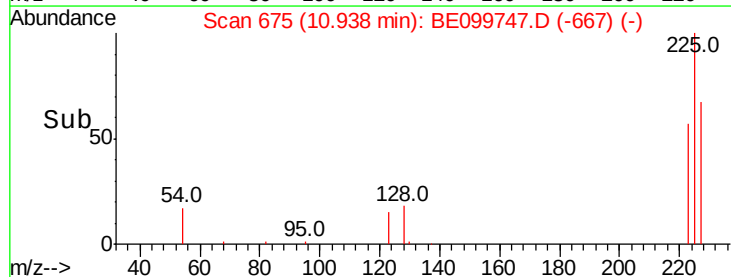
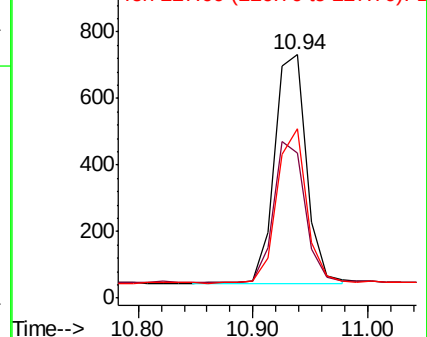
227 63.1 52.6 79.0

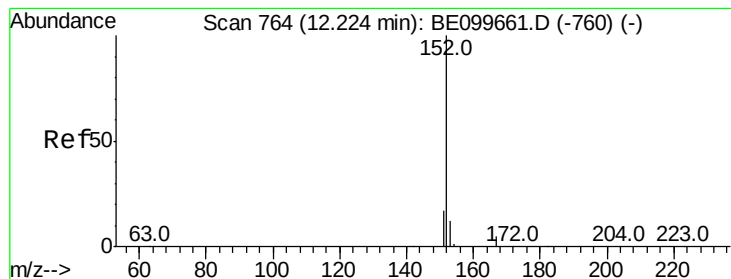


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.545 ng

RT: 12.21 min Scan# 763

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

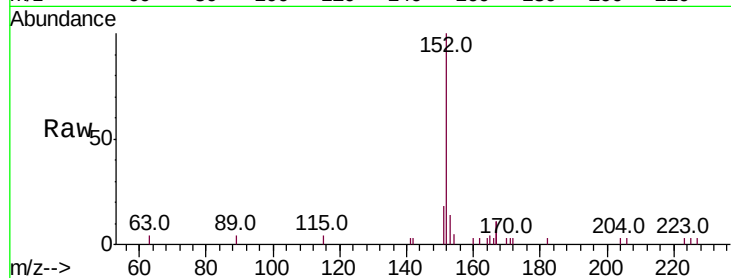
ClientSampleId :

Tot Ion:152 Resp: 4017

Ion Ratio Lower Upper

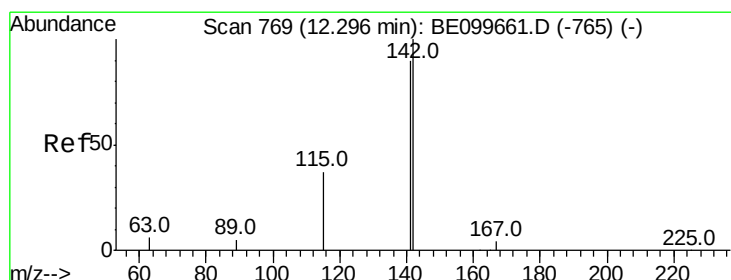
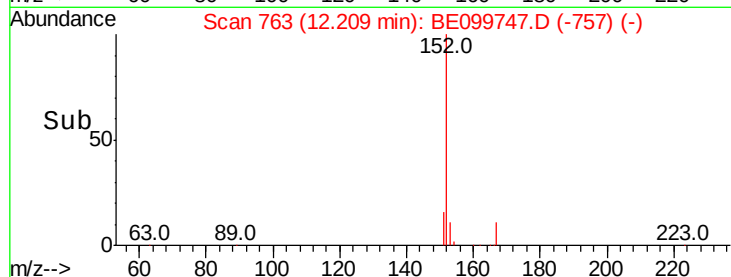
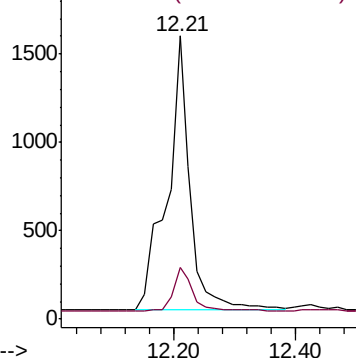
152 100

151 13.4 15.0 22.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.400 ng

RT: 12.28 min Scan# 768

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

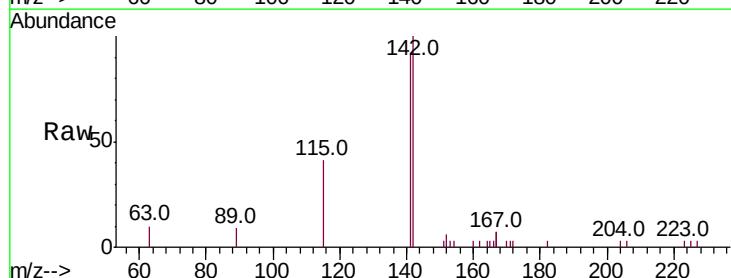
Tgt Ion:142 Resp: 2979

Ion Ratio Lower Upper

142 100

141 91.6 72.0 108.0

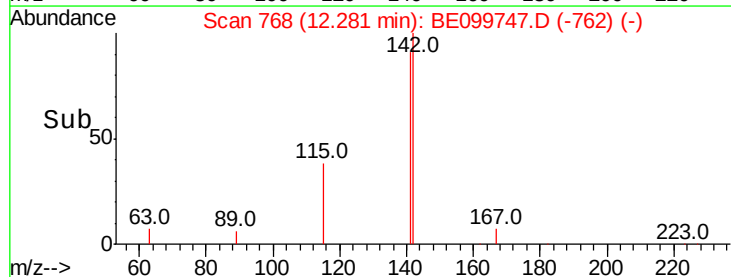
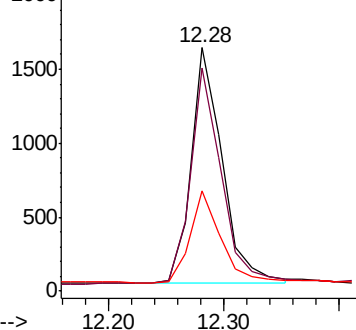
115 40.9 31.0 46.4



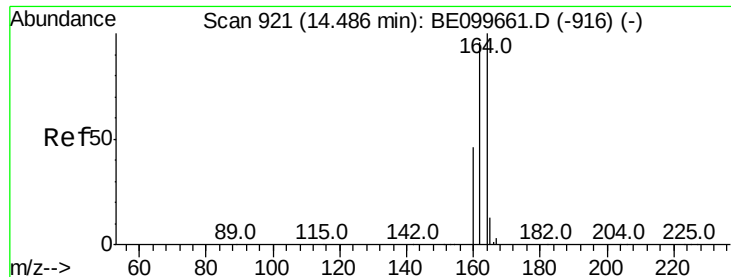
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.47 min Scan# 920

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

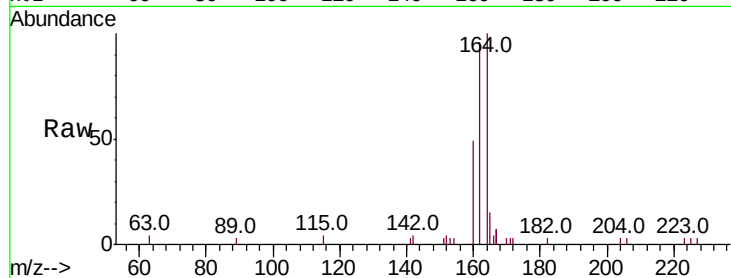
Tot Ion:164 Resp: 2827

Ion Ratio Lower Upper

164 100

162 96.2 76.5 114.7

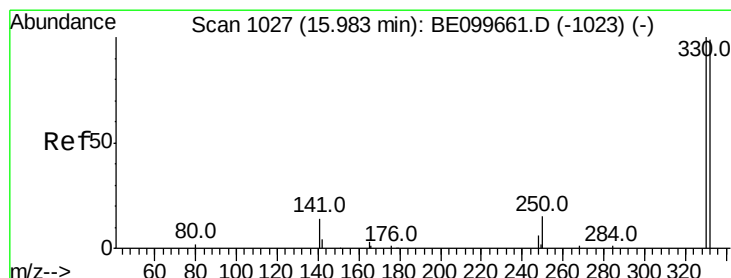
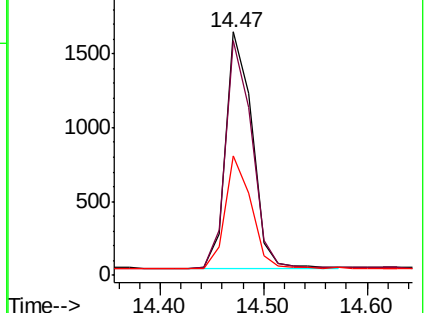
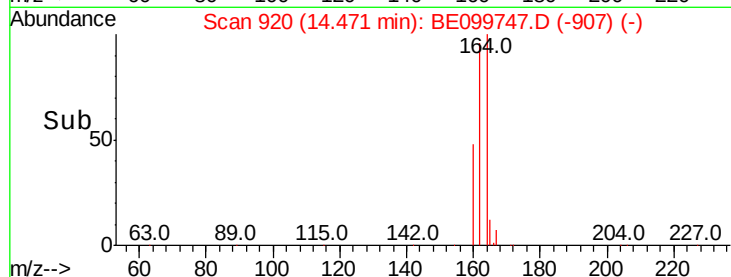
160 49.1 37.4 56.2



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: 0.476 ng

RT: 15.97 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

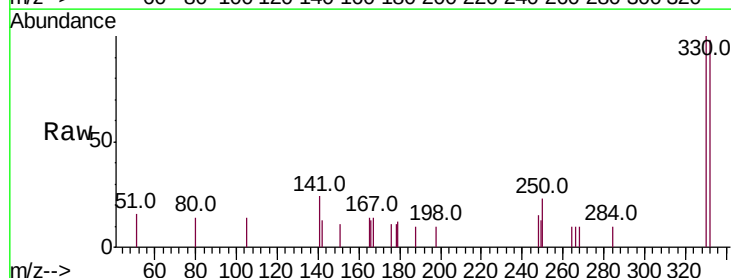
Tgt Ion:330 Resp: 749

Ion Ratio Lower Upper

330 100

332 104.1 77.3 115.9

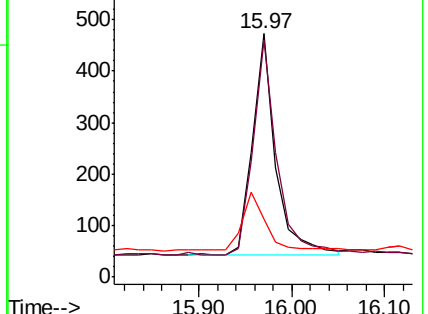
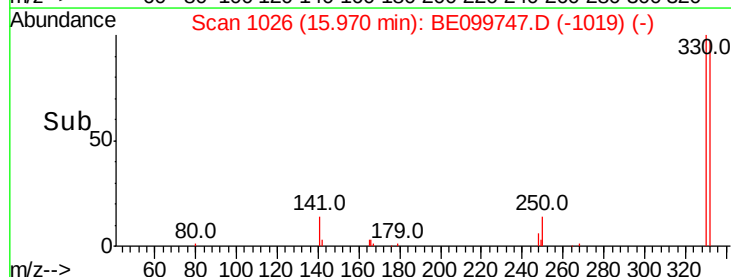
141 26.4 18.9 28.3

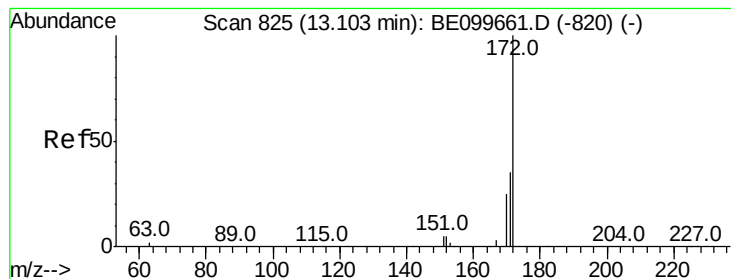


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

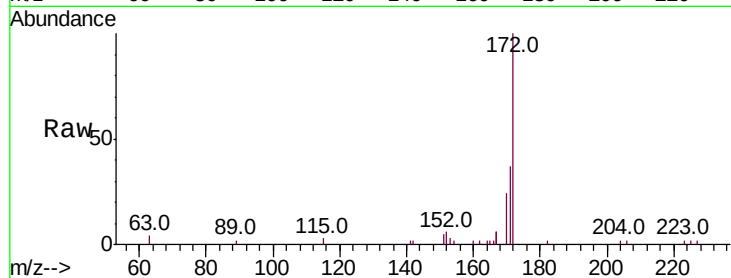




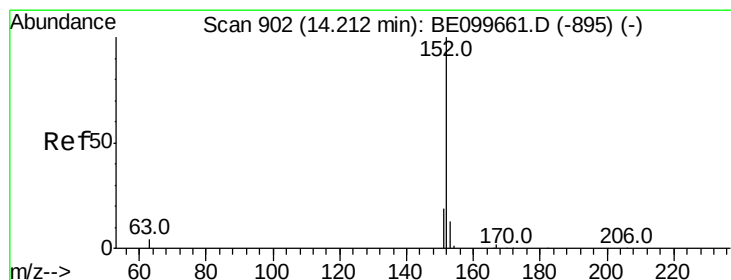
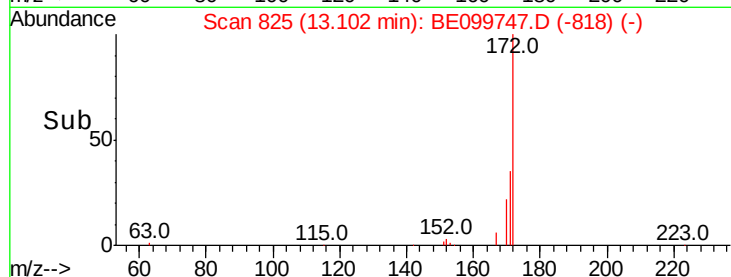
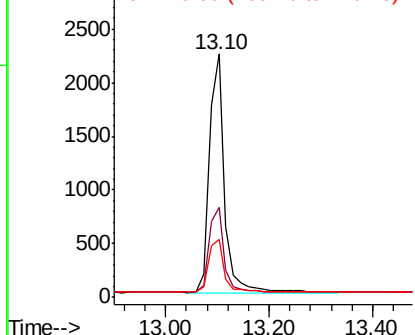
#15  
 2-Fluorobiphenyl  
 Concen: 0.424 ng  
 RT: 13.10 min Scan# 825  
 Delta R.T. -0.00 min  
 Lab File: BE099747.D  
 Acq: 24 May 2019 17:57

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:172 Resp: 4553  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 28.7 43.1  
 170 23.9 20.9 31.3

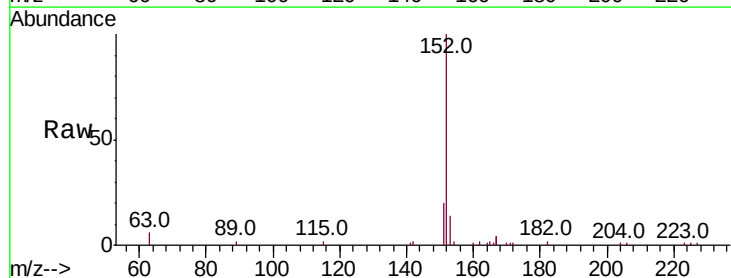


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

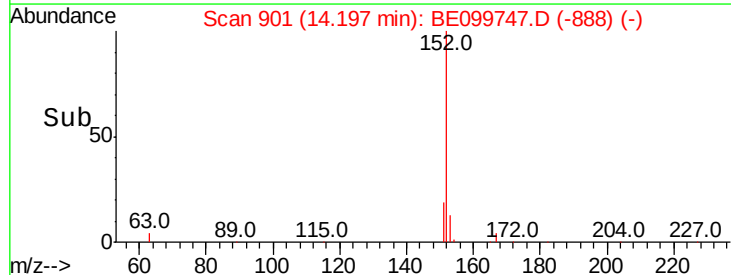
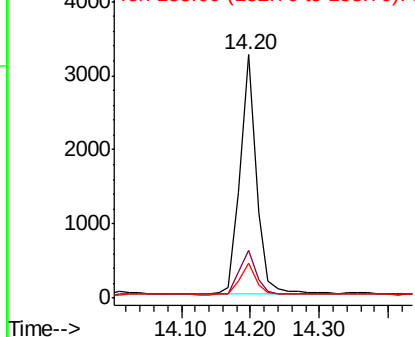


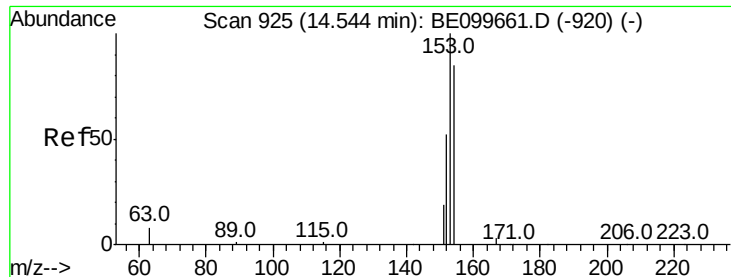
#16  
 Acenaphthylene  
 Concen: 0.404 ng  
 RT: 14.20 min Scan# 901  
 Delta R.T. -0.02 min  
 Lab File: BE099747.D  
 Acq: 24 May 2019 17:57

Tgt Ion:152 Resp: 5324  
 Ion Ratio Lower Upper  
 152 100  
 151 19.7 15.9 23.9  
 153 13.4 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: 0.394 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.00 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

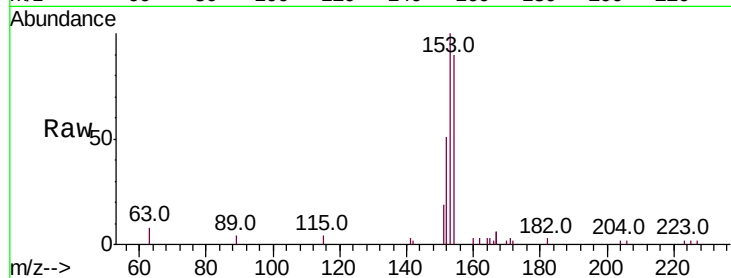
Tot Ion:154 Resp: 2916

Ion Ratio Lower Upper

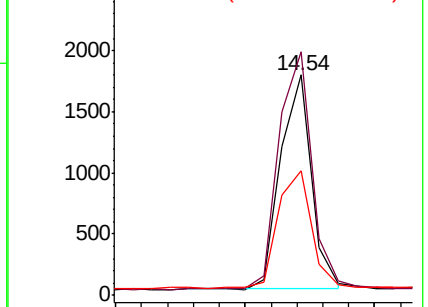
154 100

153 117.9 91.8 137.6

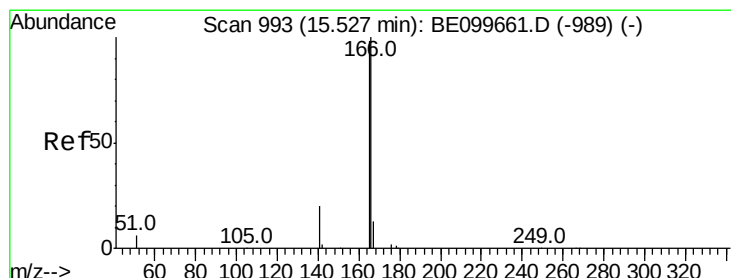
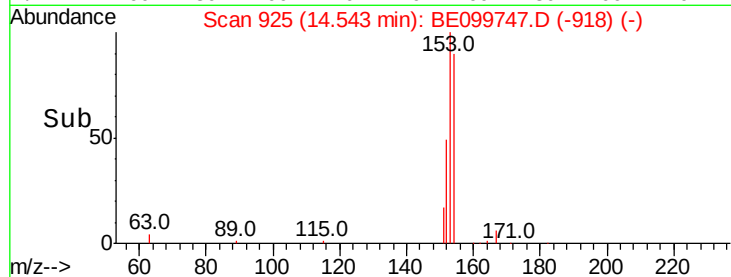
152 59.2 46.0 69.0



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--> 14.40 14.50 14.60



#18

Fluorene

Concen: 0.397 ng

RT: 15.51 min Scan# 992

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

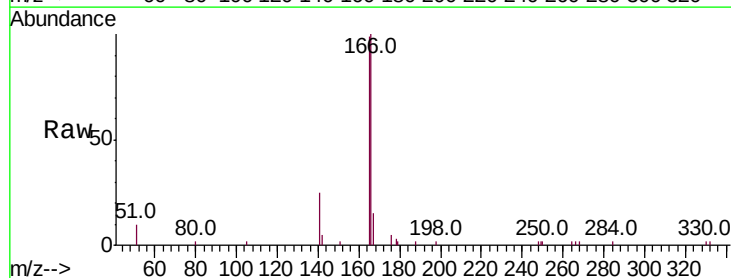
Tgt Ion:166 Resp: 4322

Ion Ratio Lower Upper

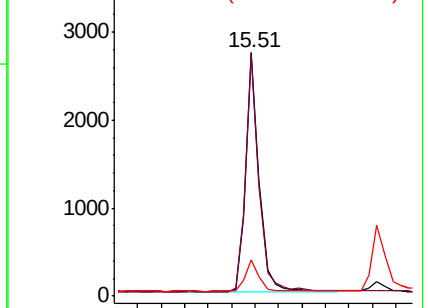
166 100

165 98.2 80.3 120.5

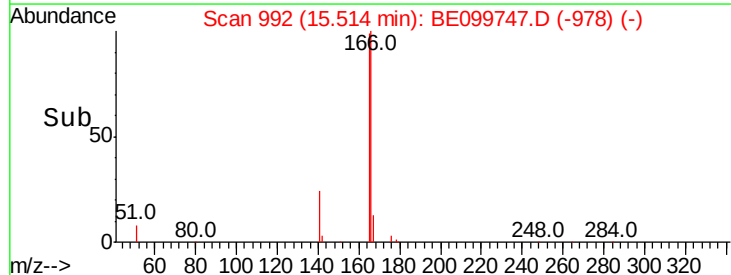
167 13.9 10.6 16.0

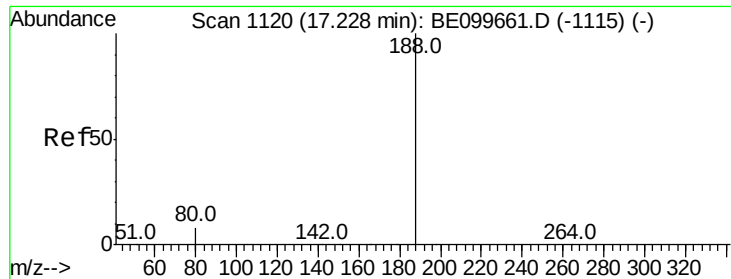


Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



Time--> 15.40 15.60





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

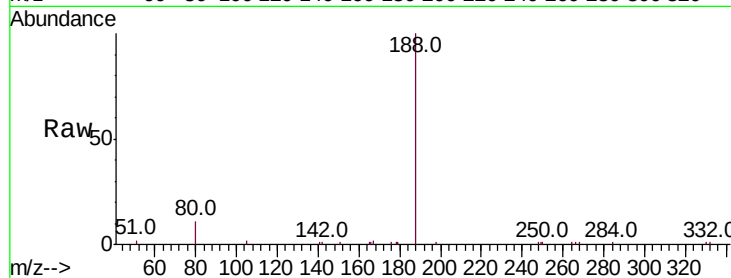
Tot Ion:188 Resp: 8262

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

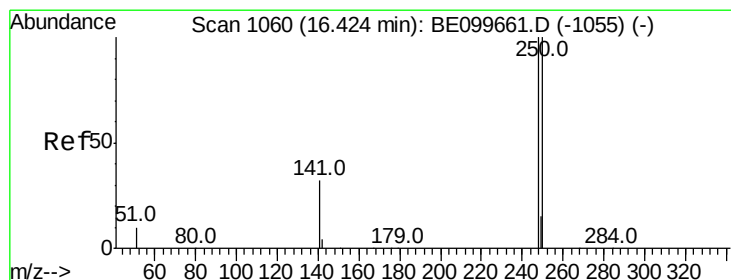
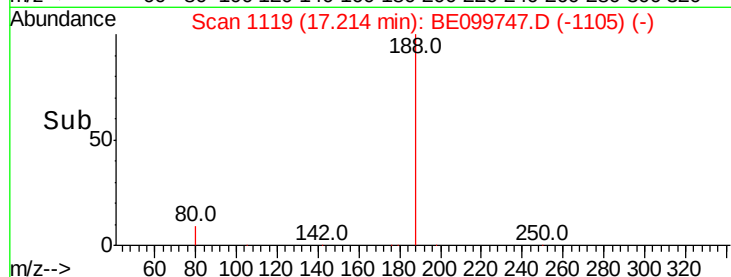
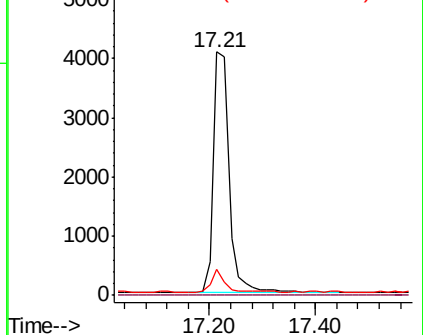
80 10.6 6.7 10.1#



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: 0.388 ng

RT: 16.41 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

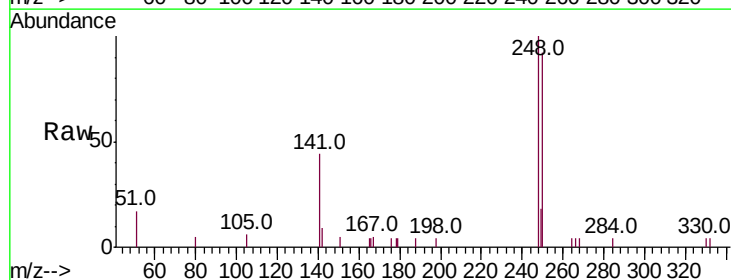
Tgt Ion:248 Resp: 1850

Ion Ratio Lower Upper

248 100

250 92.2 79.8 119.8

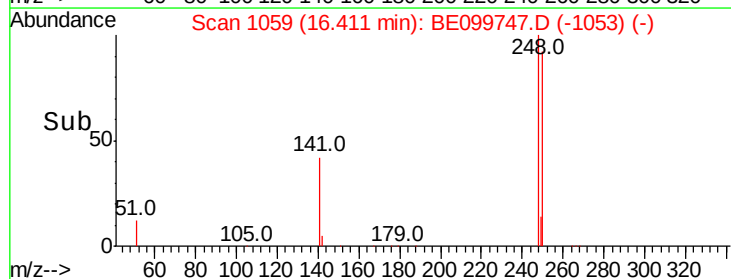
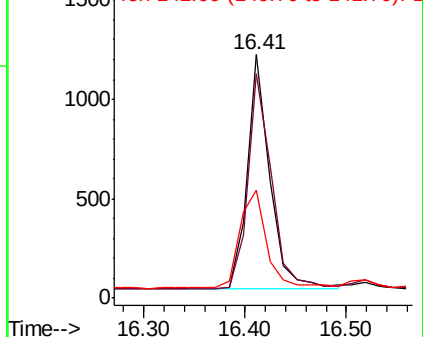
141 44.4 27.0 40.6#

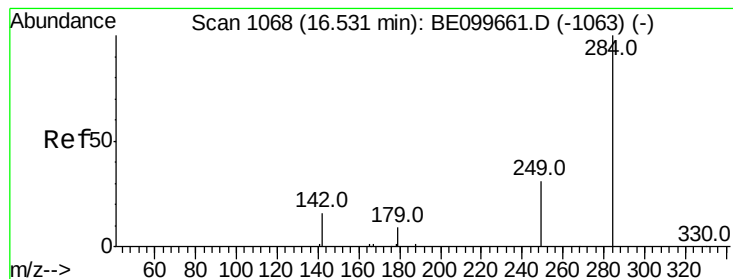


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.391 ng

RT: 16.52 min Scan# 1067

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

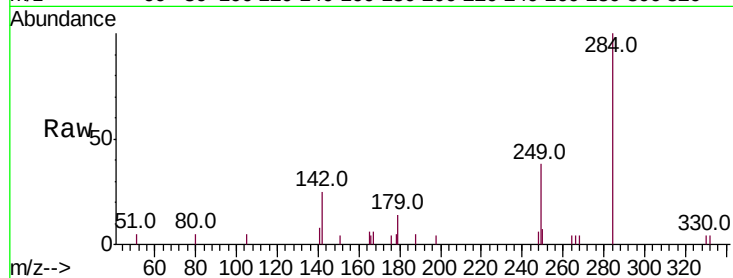
Tot Ion:284 Resp: 1904

Ion Ratio Lower Upper

284 100

142 23.9 17.8 26.6

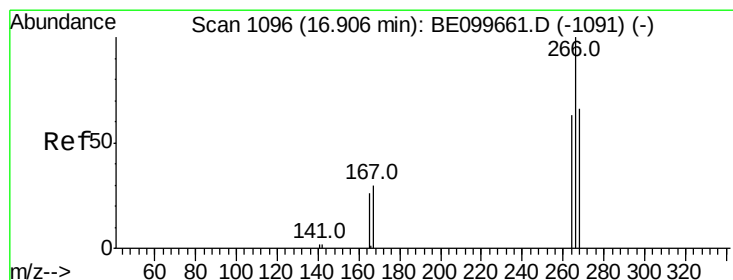
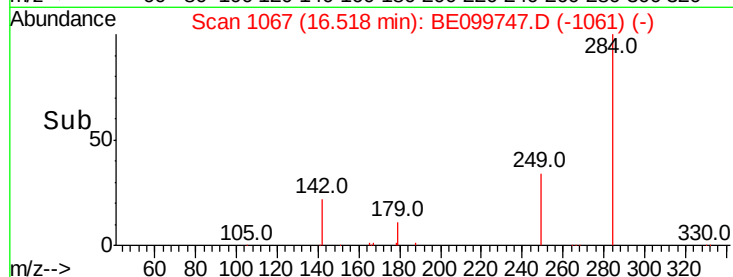
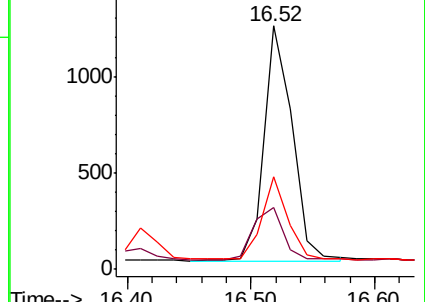
249 32.4 24.8 37.2



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 1.221 ng

RT: 16.88 min Scan# 1094

Delta R.T. -0.03 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

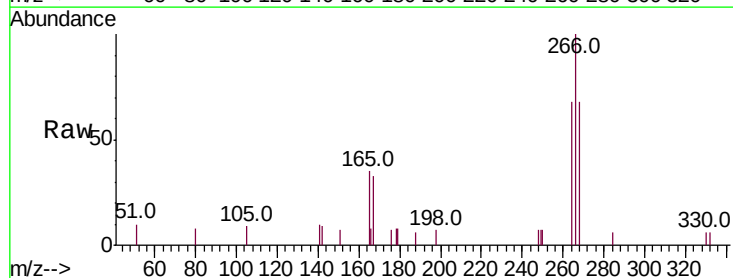
Tgt Ion:266 Resp: 1741

Ion Ratio Lower Upper

266 100

264 68.2 57.2 85.8

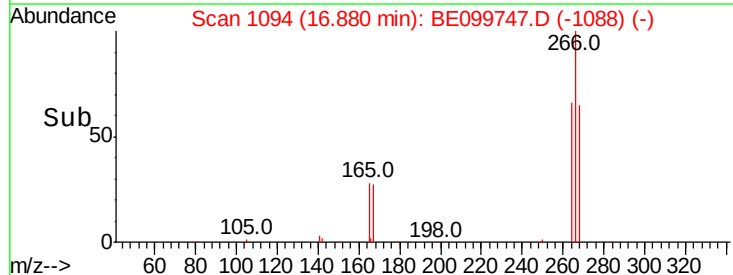
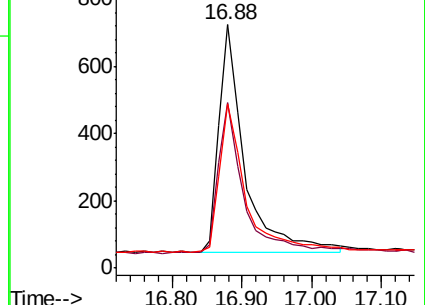
268 67.5 60.5 90.7

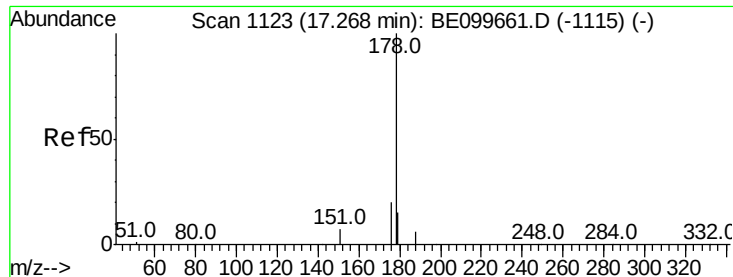


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.393 ng

RT: 17.27 min Scan# 1123

Delta R.T. 0.00 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

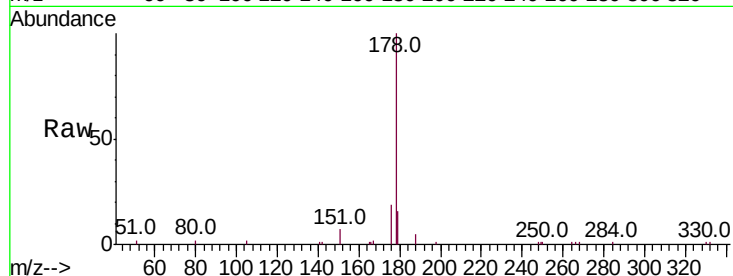
Tot Ion:178 Resp: 7933

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

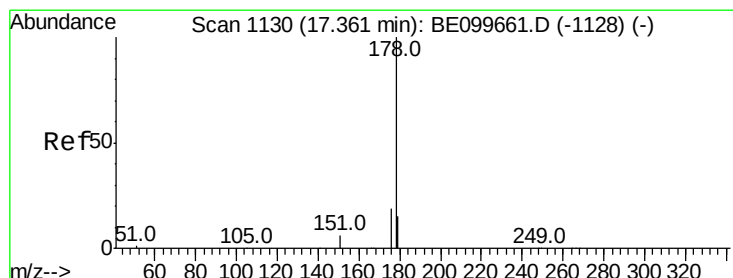
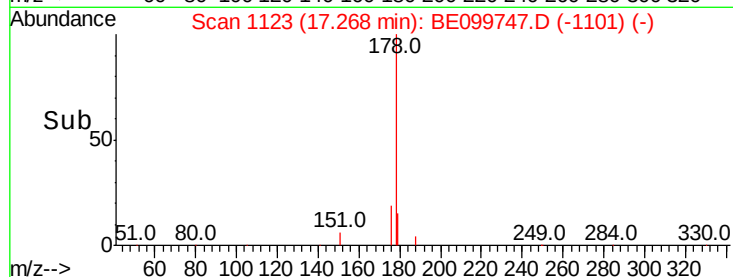
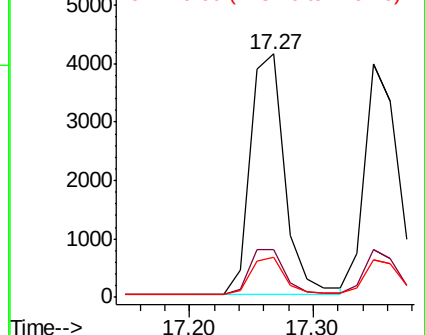
179 15.3 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.393 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

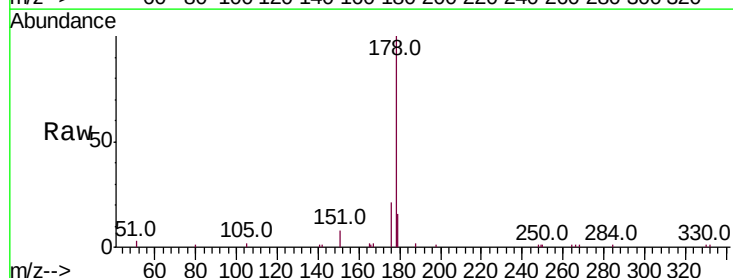
Tgt Ion:178 Resp: 7202

Ion Ratio Lower Upper

178 100

176 19.2 14.7 22.1

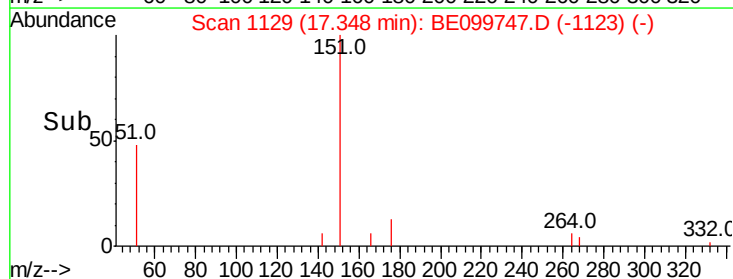
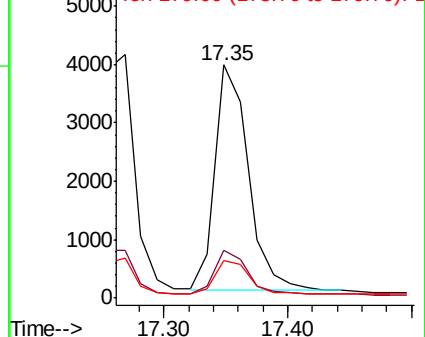
179 15.6 12.0 18.0

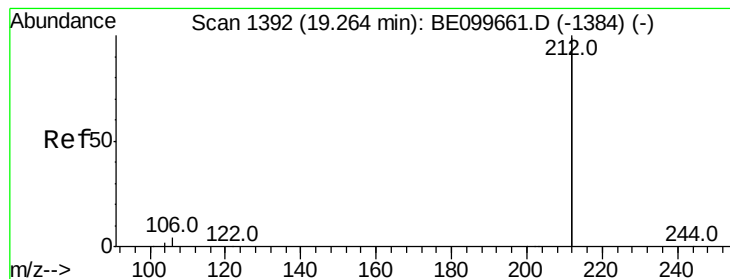


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.406 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

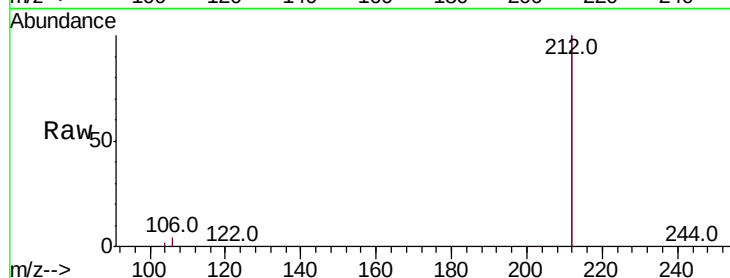
Tot Ion:212 Resp: 45855

Ion Ratio Lower Upper

212 100

106 1.8 1.4 2.2

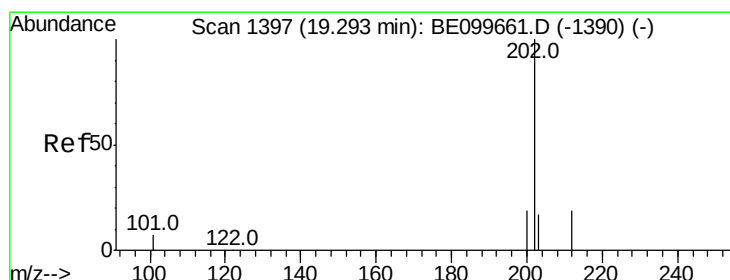
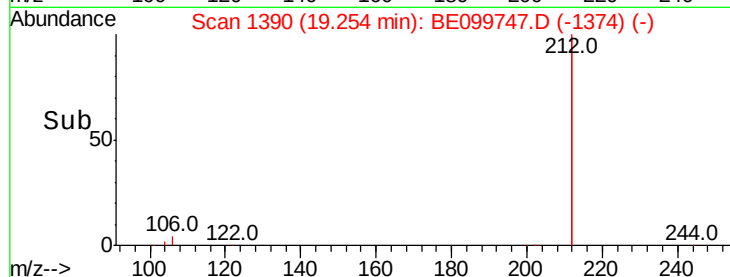
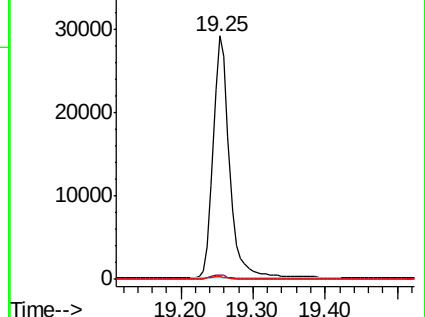
104 1.1 0.8 1.2



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: 0.403 ng

RT: 19.29 min Scan# 1396

Delta R.T. -0.00 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

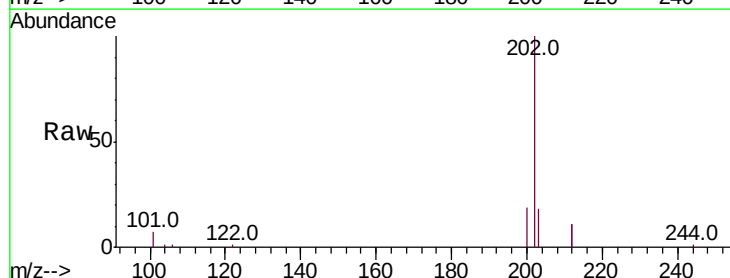
Tgt Ion:202 Resp: 12856

Ion Ratio Lower Upper

202 100

101 6.5 5.2 7.8

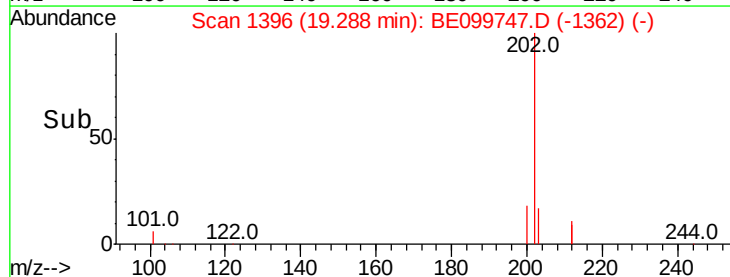
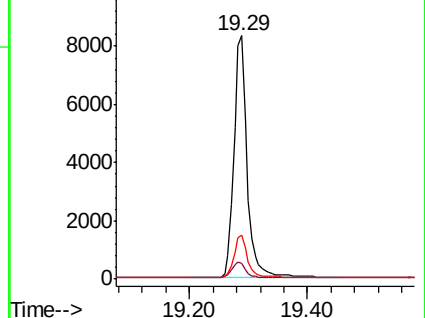
203 17.1 13.8 20.6

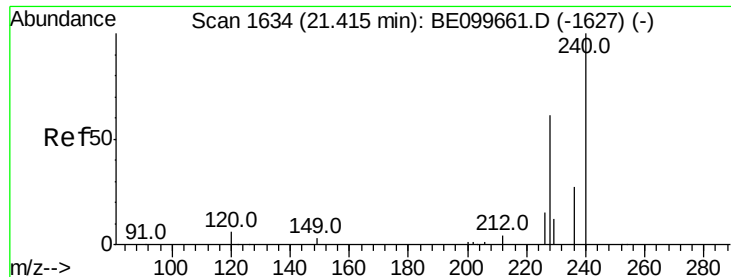


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.40 min Scan# 1633

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

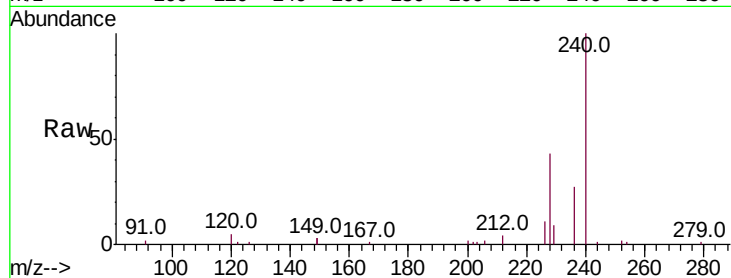
Tot Ion:240 Resp: 14078

Ion Ratio Lower Upper

240 100

120 5.3 5.4 8.0#

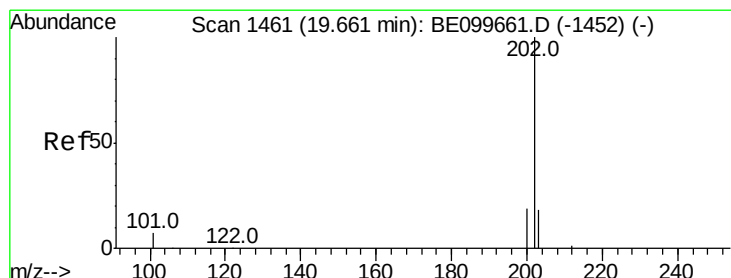
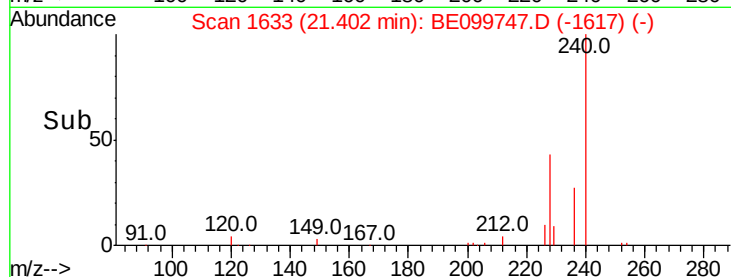
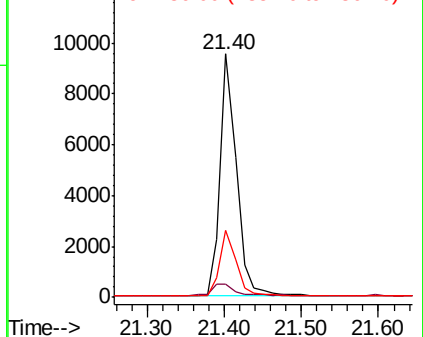
236 27.4 21.7 32.5



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: 0.382 ng

RT: 19.65 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

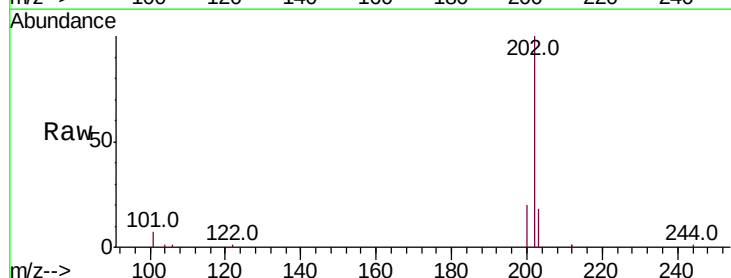
Tgt Ion:202 Resp: 13496

Ion Ratio Lower Upper

202 100

200 19.5 15.4 23.2

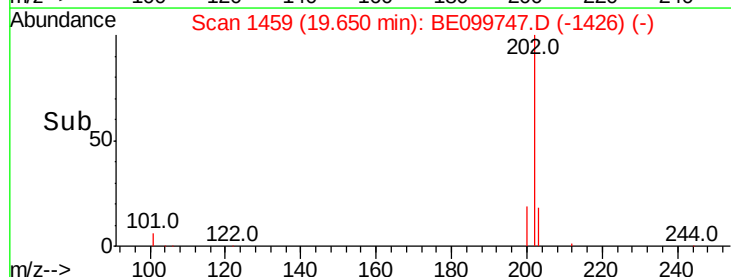
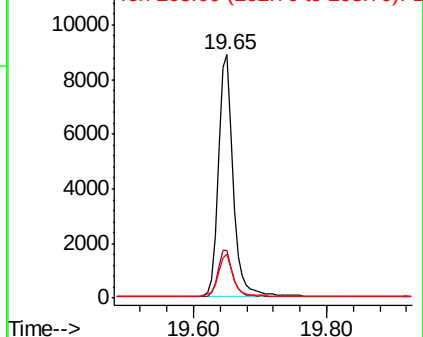
203 17.6 13.8 20.8



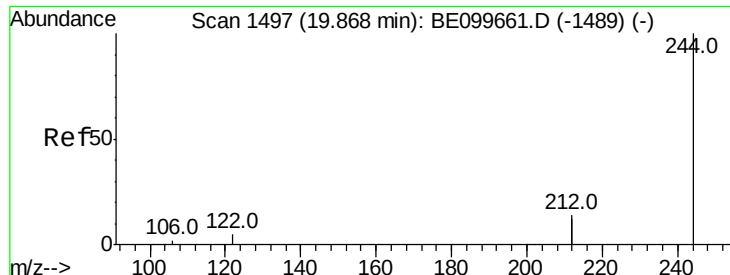
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.421 ng

RT: 19.85 min Scan# 1494

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

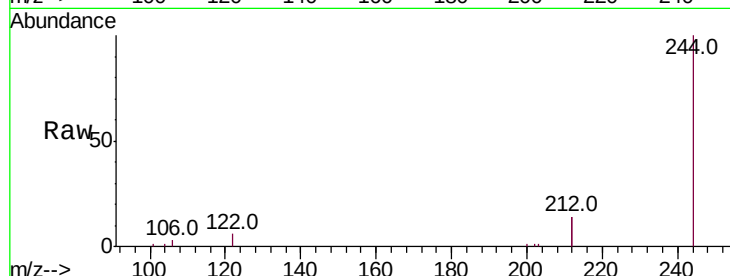
Tot Ion:244 Resp: 10571

Ion Ratio Lower Upper

244 100

212 28.5 22.5 33.7

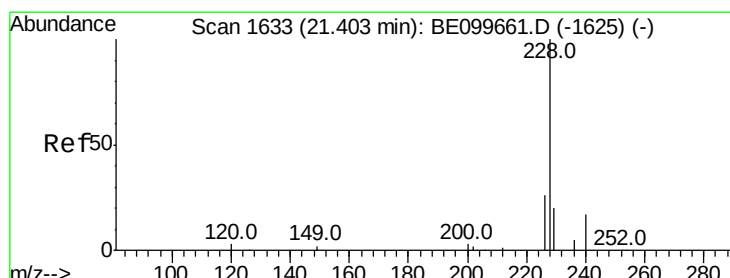
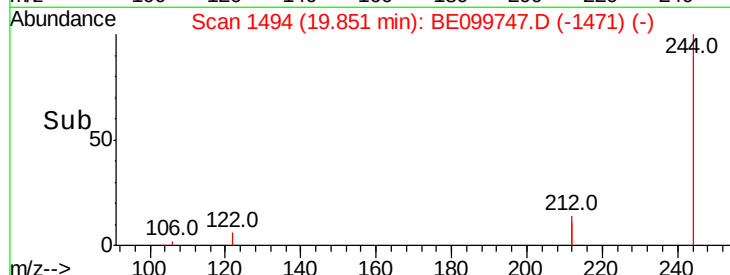
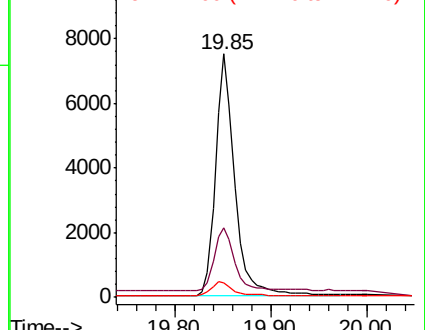
122 6.2 4.3 6.5



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: 0.471 ng

RT: 21.39 min Scan# 1632

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

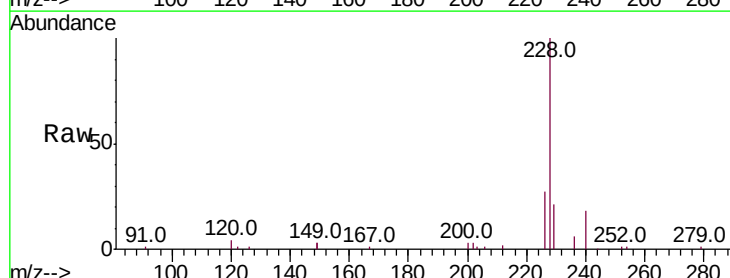
Tgt Ion:228 Resp: 18849

Ion Ratio Lower Upper

228 100

226 26.7 21.3 31.9

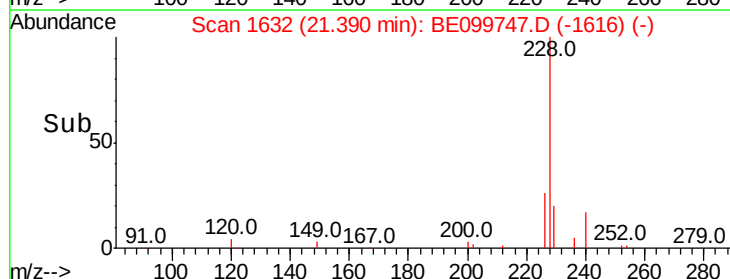
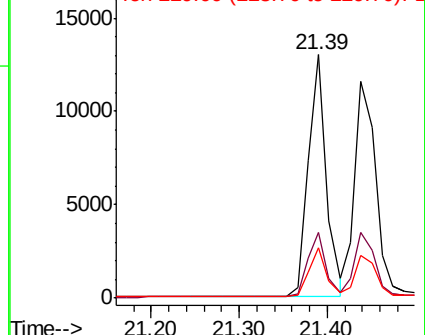
229 20.5 16.1 24.1

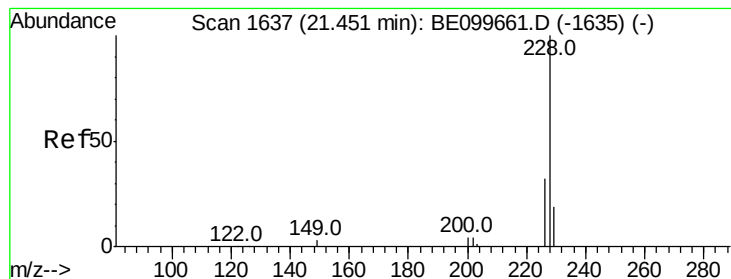


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.445 ng

RT: 21.44 min Scan# 1636

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

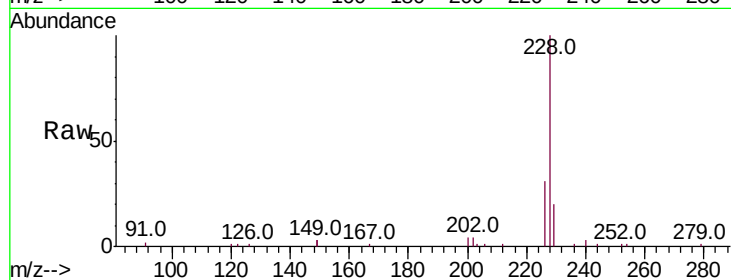
Tot Ion:228 Resp: 19052

Ion Ratio Lower Upper

228 100

226 30.5 24.7 37.1

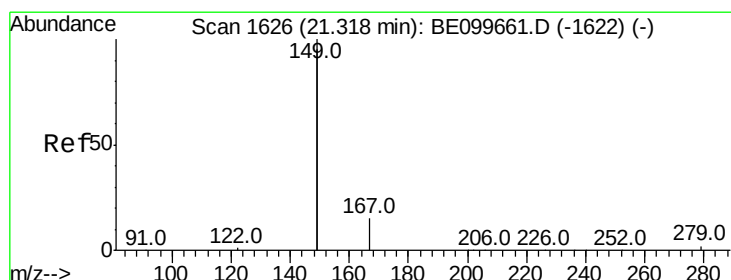
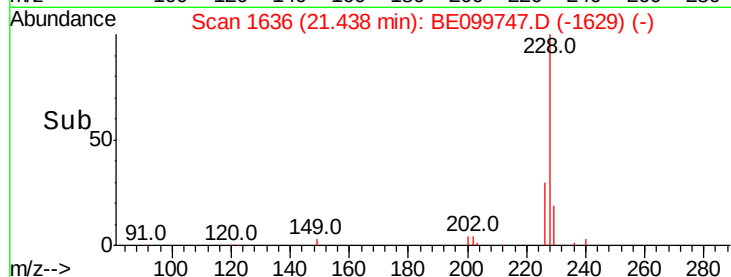
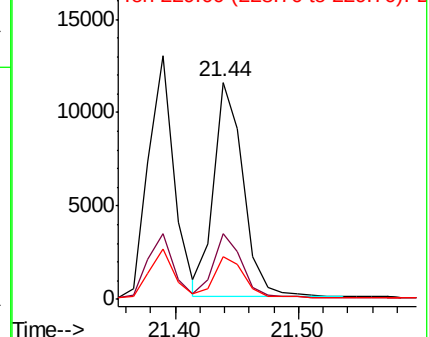
229 19.8 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.515 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

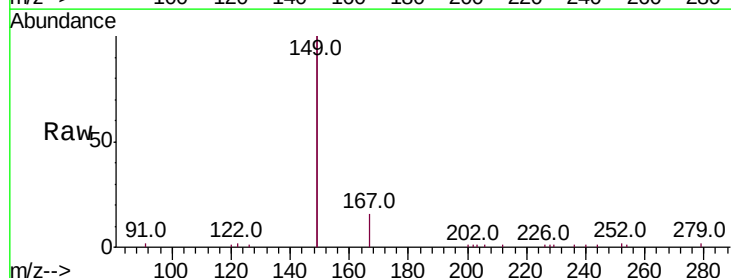
Tgt Ion:149 Resp: 23744

Ion Ratio Lower Upper

149 100

167 7.6 6.2 9.4

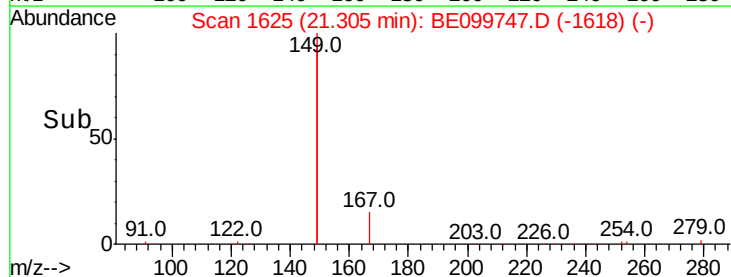
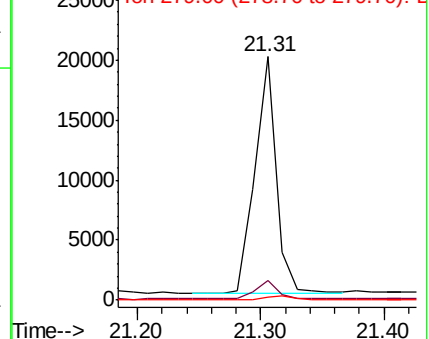
279 1.6 1.2 1.8

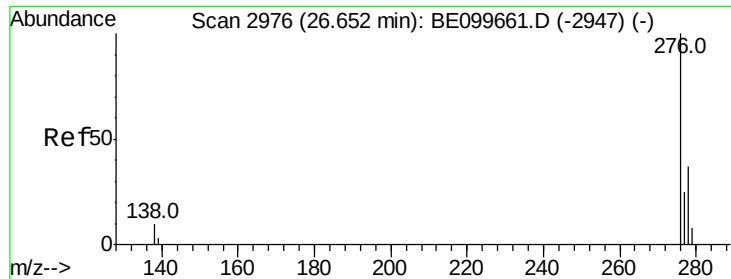


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.468 ng

RT: 26.63 min Scan# 2969

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

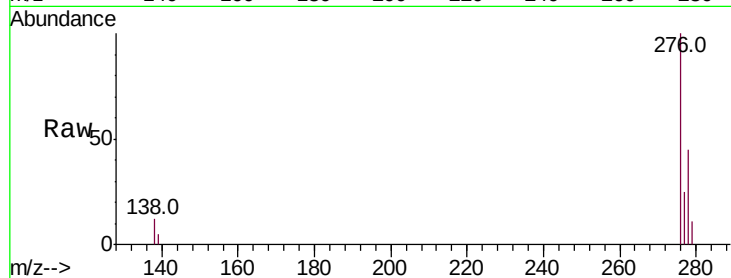
Tot Ion:276 Resp: 24162

Ion Ratio Lower Upper

276 100

138 12.7 9.6 14.4

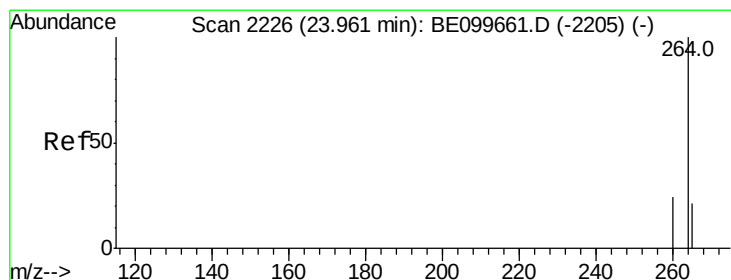
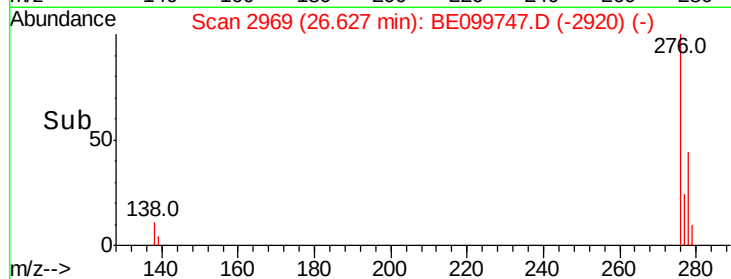
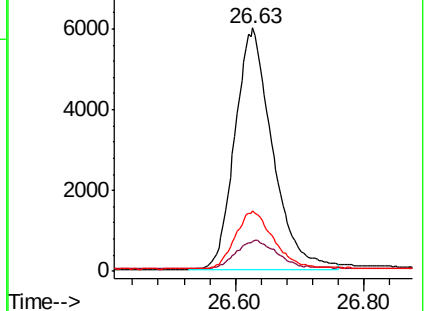
277 24.8 19.2 28.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.94 min Scan# 2220

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

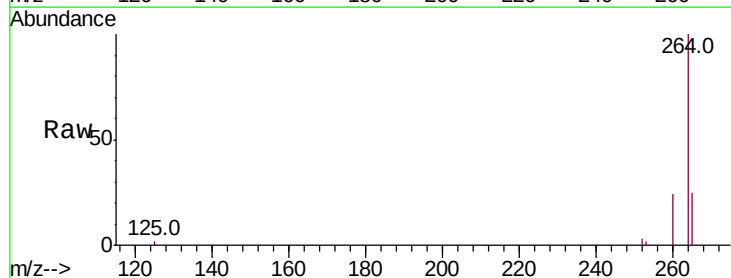
Tgt Ion:264 Resp: 17454

Ion Ratio Lower Upper

264 100

260 24.5 19.6 29.4

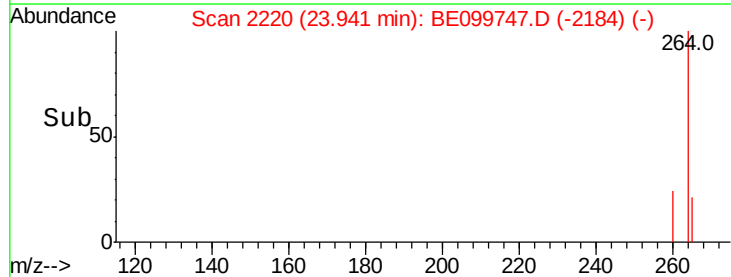
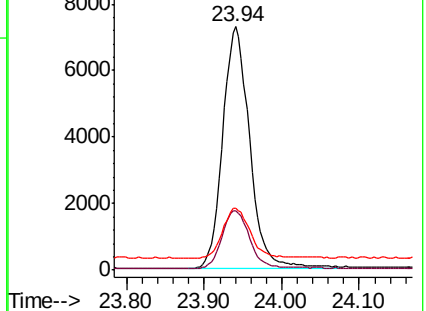
265 25.3 19.1 28.7

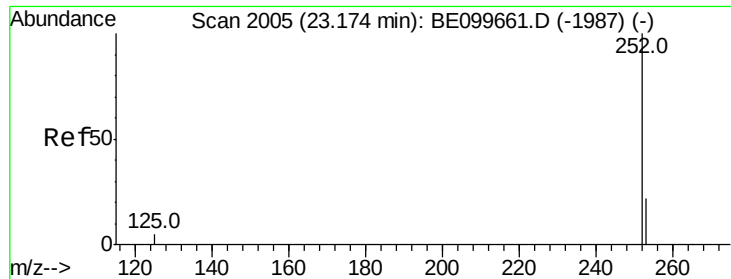


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

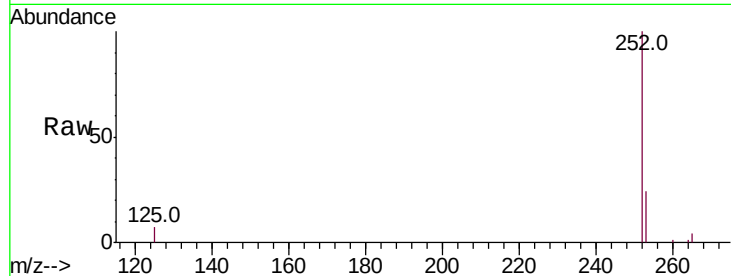




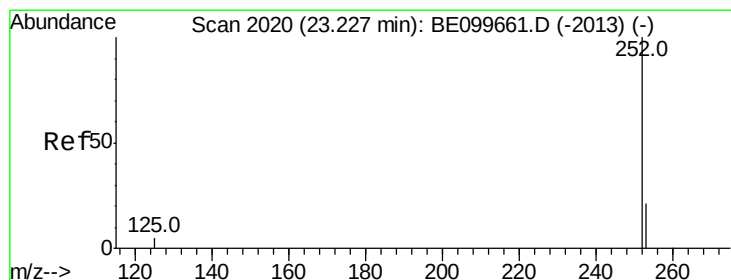
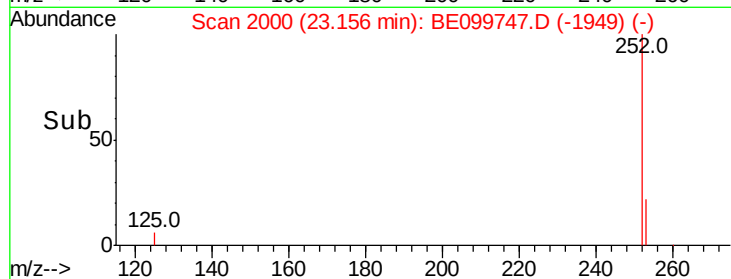
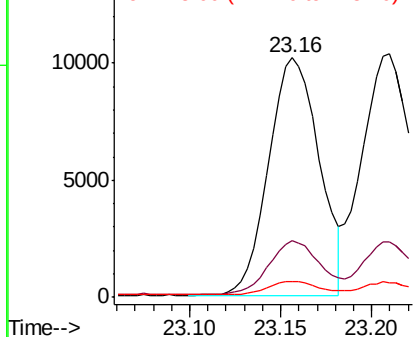
#35  
Benzo(b)fluoranthene  
Concen: 0.408 ng  
RT: 23.16 min Scan# 2000  
Delta R.T. -0.02 min  
Lab File: BE099747.D  
Acq: 24 May 2019 17:57

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 19490  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.2 27.4  
125 6.6 4.5 6.7

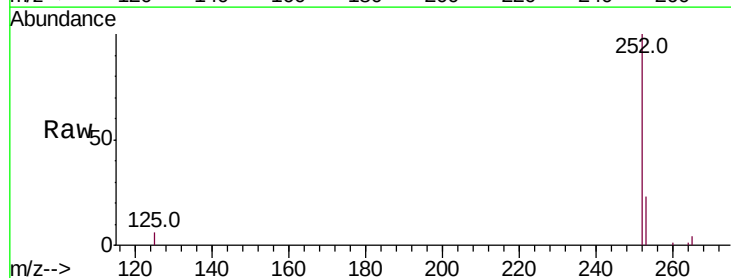


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

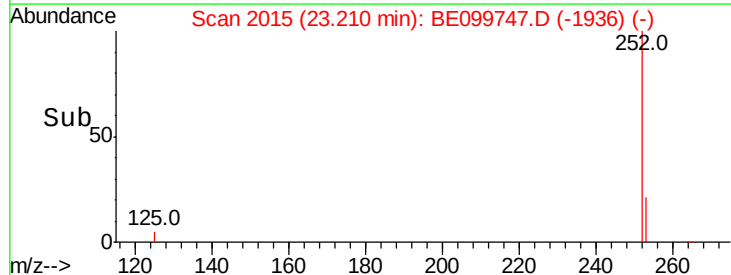
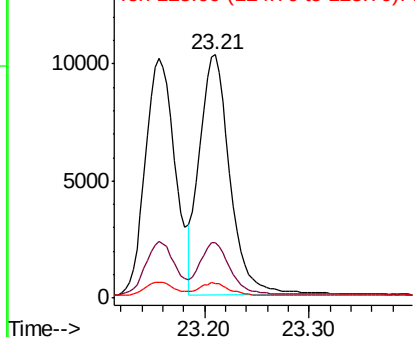


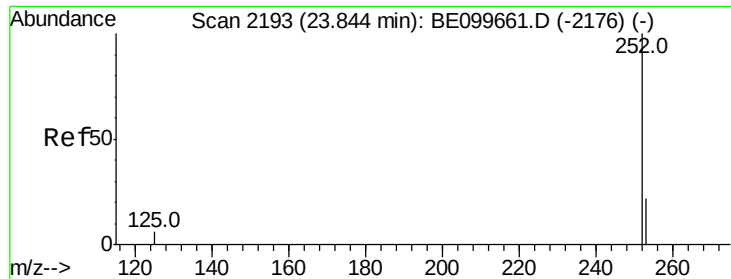
#36  
Benzo(k)fluoranthene  
Concen: 0.414 ng  
RT: 23.21 min Scan# 2015  
Delta R.T. -0.02 min  
Lab File: BE099747.D  
Acq: 24 May 2019 17:57

Tgt Ion:252 Resp: 20618  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.8 26.8  
125 6.1 4.6 6.8



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.433 ng

RT: 23.82 min Scan# 2187

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

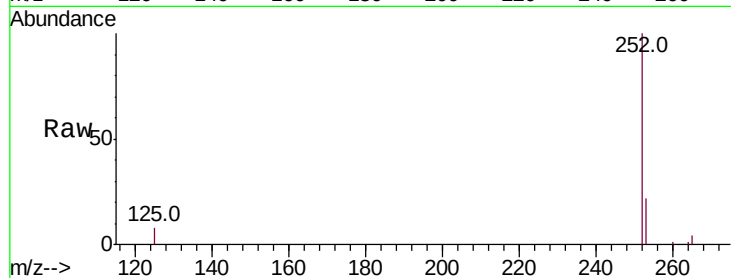
Tot Ion:252 Resp: 19919

Ion Ratio Lower Upper

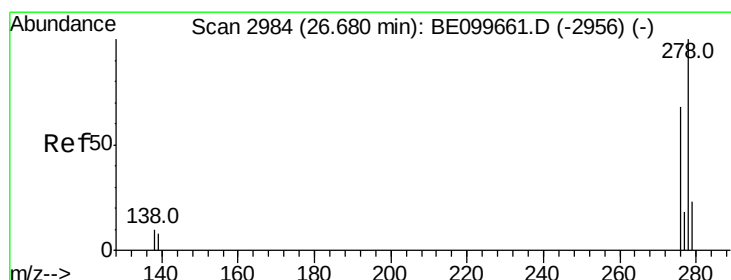
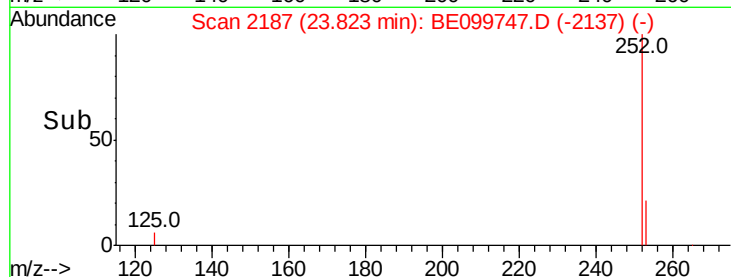
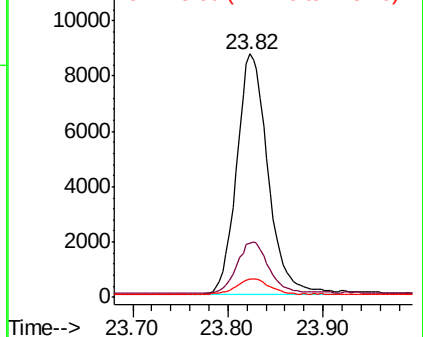
252 100

253 22.5 18.9 28.3

125 7.6 5.4 8.0



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: 0.416 ng

RT: 26.66 min Scan# 2977

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

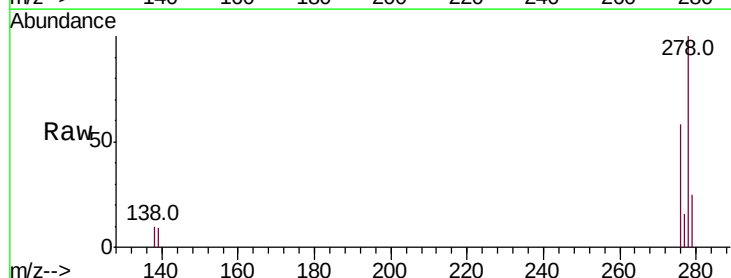
Tgt Ion:278 Resp: 20082

Ion Ratio Lower Upper

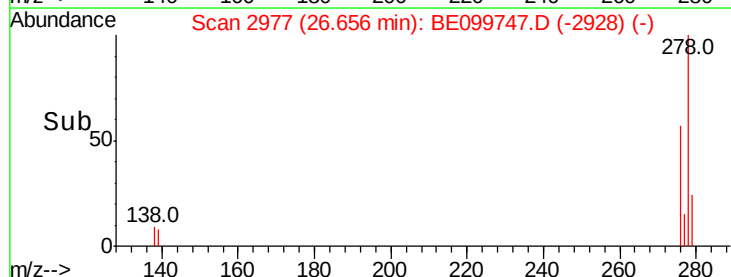
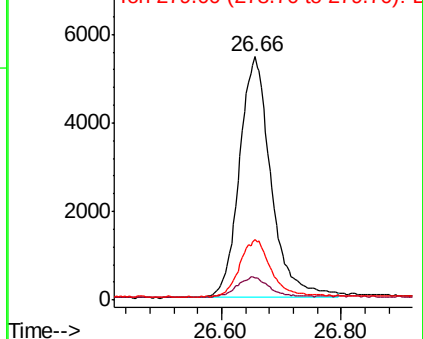
278 100

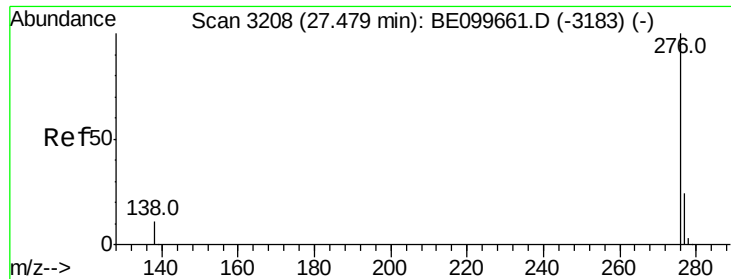
139 9.1 6.9 10.3

279 24.8 19.2 28.8



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: 0.423 ng

RT: 27.45 min Scan# 3201

Delta R.T. -0.02 min

Lab File: BE099747.D

Acq: 24 May 2019 17:57

Instrument :

BNA\_E

ClientSampleId :

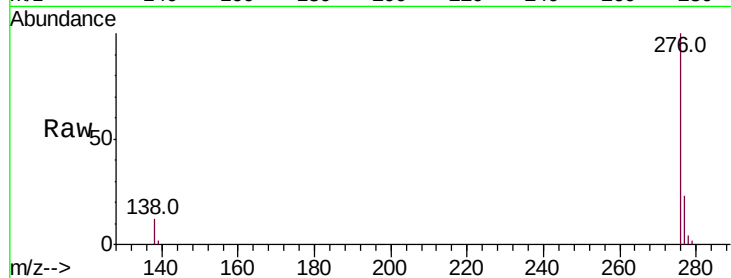
Tot Ion:276 Resp: 20655

Ion Ratio Lower Upper

276 100

277 23.4 19.8 29.6

138 11.9 9.2 13.8



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

