

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE052819\  
 Data File : BE099764.D  
 Acq On : 28 May 2019 19:31  
 Operator : JU/SJ  
 Sample : K3037-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 29 04:10:47 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  | 1217     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.60 | 136  | 4510     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.47 | 164  | 3624     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.21 | 188  | 10663    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.40 | 240  | 15504    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.94 | 264  | 18346    | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.37  | 112  | 611      | 0.20 | ng    | 0.00     |
| 5) Phenol-d6                | 6.97  | 99   | 540      | 0.13 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.96  | 82   | 1651     | 0.42 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152  | 4758     | 0.61 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330  | 1084     | 0.52 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.09 | 172  | 5491     | 0.40 | ng    | -0.02    |
| 25) Fluoranthene-d10        | 19.25 | 212  | 59546    | 0.41 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.85 | 244  | 17656    | 0.64 | ng    | -0.02    |

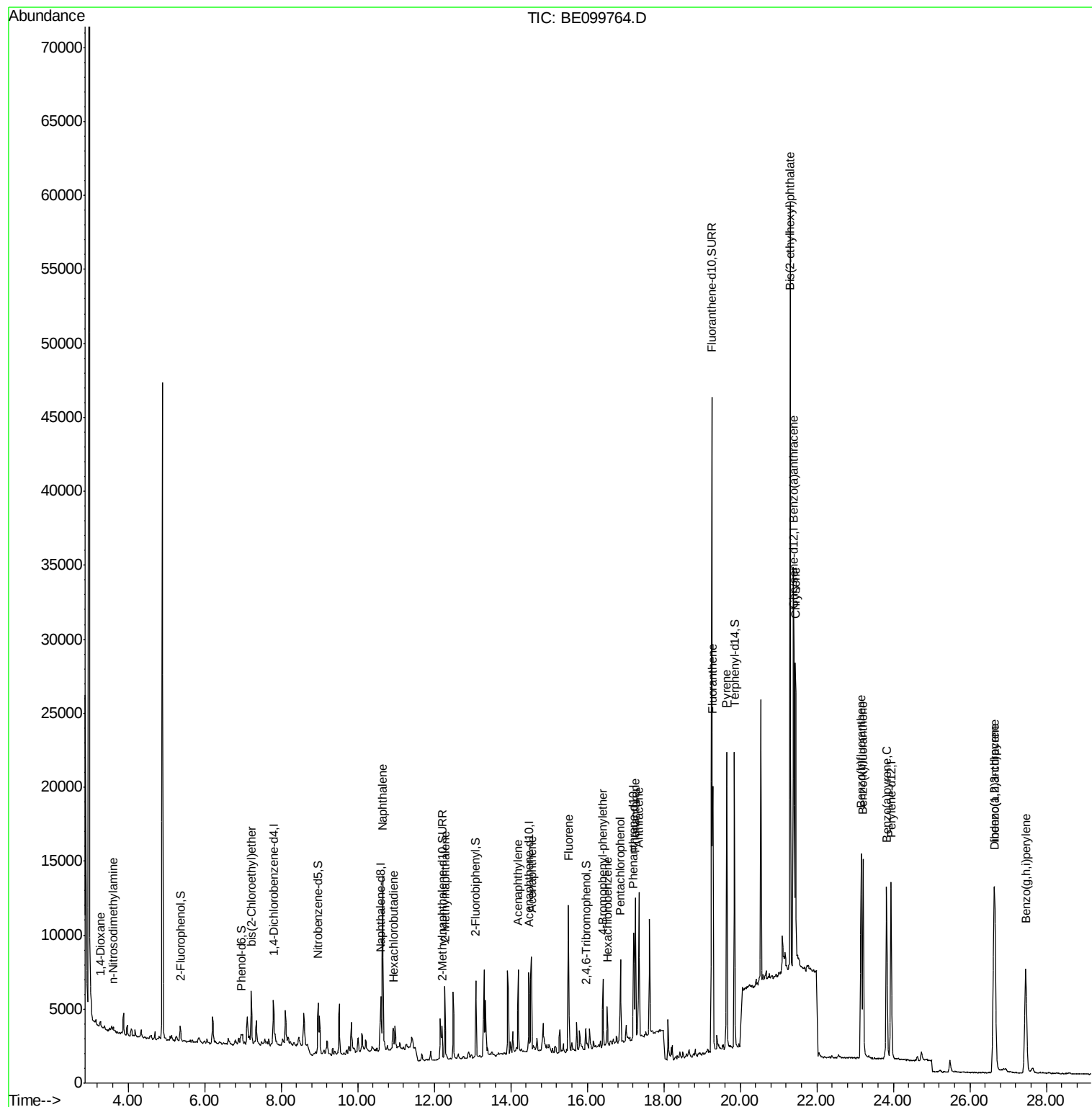
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.28  | 88   | 394      | 0.219 | ng    | # 78   |
| 3) n-Nitrosodimethylamine      | 3.60  | 42   | 196      | 0.197 | ng    | # 98   |
| 6) bis(2-Chloroethyl)ether     | 7.22  | 93   | 1507     | 0.416 | ng    | 97     |
| 9) Naphthalene                 | 10.65 | 128  | 19207    | 0.398 | ng    | 99     |
| 10) Hexachlorobutadiene        | 10.93 | 225  | 1193     | 0.336 | ng    | 98     |
| 12) 2-Methylnaphthalene        | 12.28 | 142  | 3350     | 0.426 | ng    | 98     |
| 16) Acenaphthylene             | 14.20 | 152  | 6555     | 0.388 | ng    | 99     |
| 17) Acenaphthene               | 14.54 | 154  | 3620     | 0.382 | ng    | 98     |
| 18) Fluorene                   | 15.51 | 166  | 5560     | 0.398 | ng    | 99     |
| 20) 4-Bromophenyl-phenylether  | 16.41 | 248  | 2414     | 0.393 | ng    | 95     |
| 21) Hexachlorobenzene          | 16.52 | 284  | 2217     | 0.352 | ng    | 96     |
| 22) Pentachlorophenol          | 16.87 | 266  | 2937     | 1.495 | ng    | 90     |
| 23) Phenanthrene               | 17.25 | 178  | 10938    | 0.420 | ng    | 98     |
| 24) Anthracene                 | 17.35 | 178  | 10472    | 0.443 | ng    | 97     |
| 26) Fluoranthene               | 19.28 | 202  | 17891    | 0.434 | ng    | 98     |
| 28) Pyrene                     | 19.64 | 202  | 18718    | 0.481 | ng    | 99     |
| 30) Benzo(a)anthracene         | 21.39 | 228  | 21555    | 0.489 | ng    | 98     |
| 31) Chrysene                   | 21.44 | 228  | 20801    | 0.442 | ng    | 97     |
| 32) Bis(2-ethylhexyl)phthalate | 21.30 | 149  | 53696    | 1.058 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.63 | 276  | 22936    | 0.403 | ng    | 99     |
| 35) Benzo(b)fluoranthene       | 23.16 | 252  | 20484    | 0.407 | ng    | # 93   |
| 36) Benzo(k)fluoranthene       | 23.21 | 252  | 20400    | 0.389 | ng    | # 94   |
| 37) Benzo(a)pyrene             | 23.82 | 252  | 19707    | 0.407 | ng    | # 96   |
| 38) Dibenzo(a,h)anthracene     | 26.66 | 278  | 18700    | 0.368 | ng    | # 96   |
| 39) Benzo(g,h,i)perylene       | 27.46 | 276  | 19833    | 0.387 | ng    | 99     |

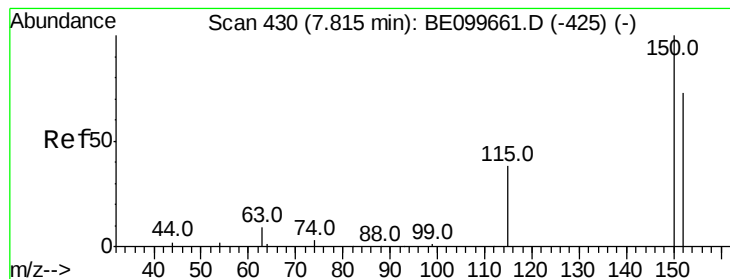
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

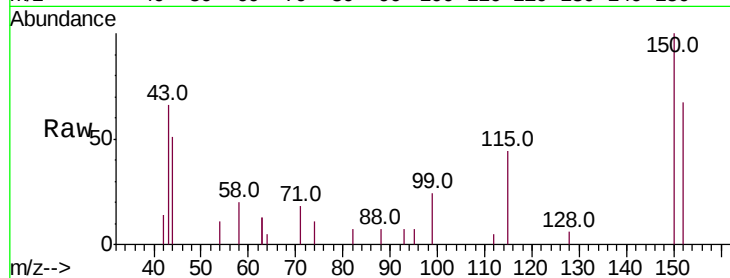
Tot Ion:152 Resp: 1217

Ion Ratio Lower Upper

152 100

150 148.6 109.2 163.8

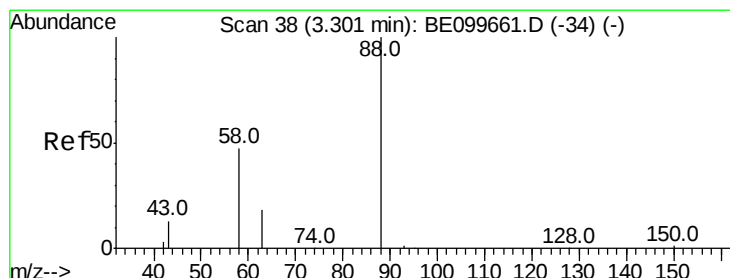
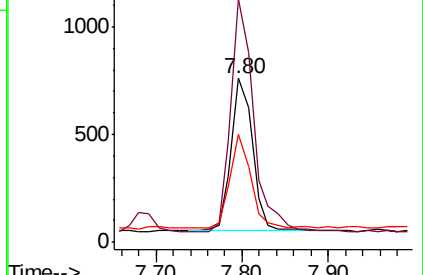
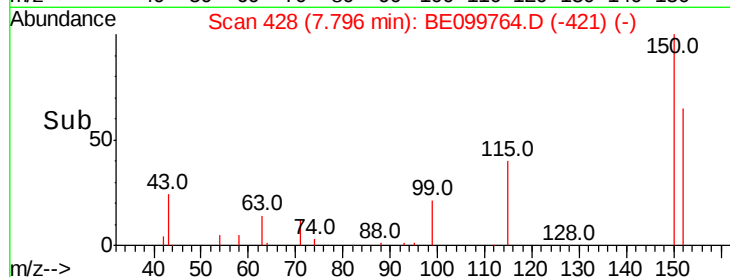
115 65.7 43.7 65.5#



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: 0.219 ng

RT: 3.28 min Scan# 36

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

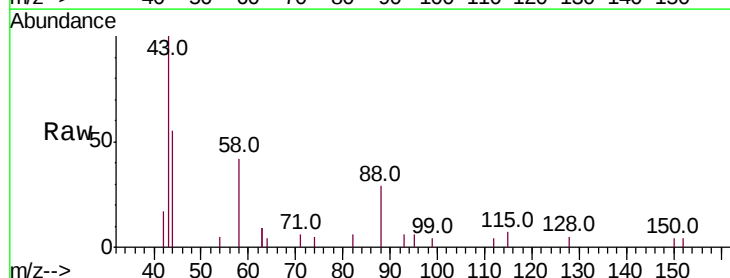
Tgt Ion: 88 Resp: 394

Ion Ratio Lower Upper

88 100

58 63.2 41.8 62.8#

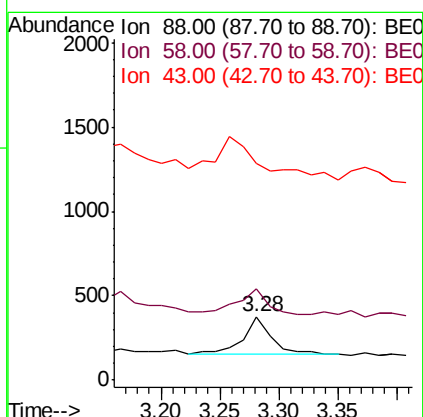
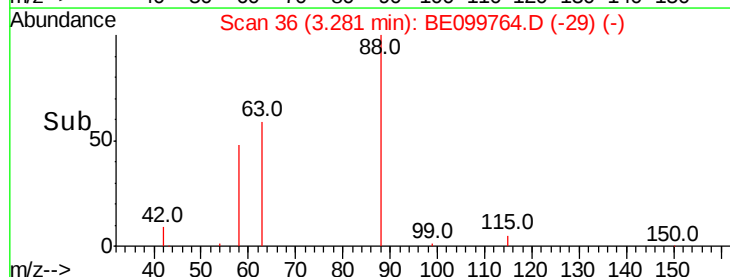
43 0.0 15.0 22.4#



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: 0.197 ng

RT: 3.60 min Scan# 64

Delta R.T. -0.03 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

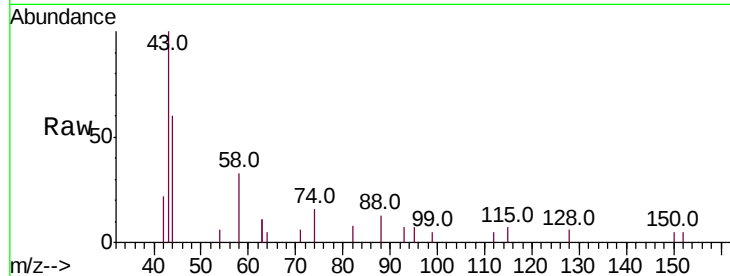
Tot Ion: 42 Resp: 196

Ion Ratio Lower Upper

42 100

74 164.8 129.2 193.8

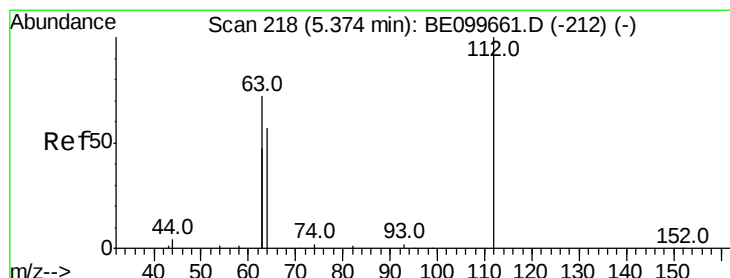
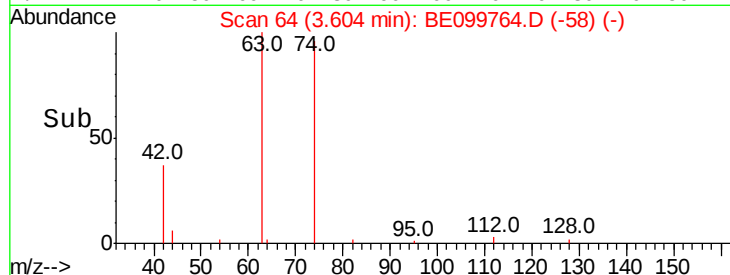
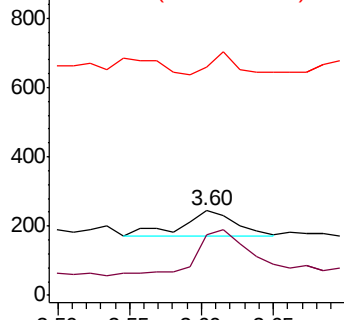
44 39.8 0.0 0.0#



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: 0.199 ng

RT: 5.37 min Scan# 217

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

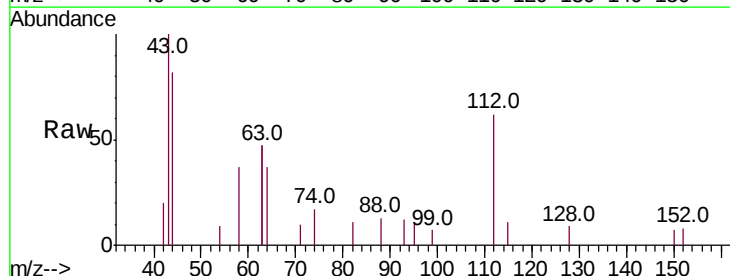
Tgt Ion: 112 Resp: 611

Ion Ratio Lower Upper

112 100

64 56.0 43.4 65.2

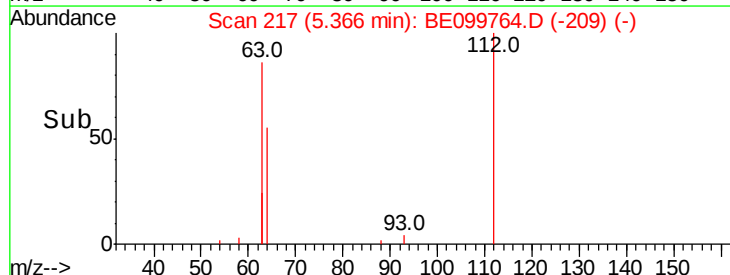
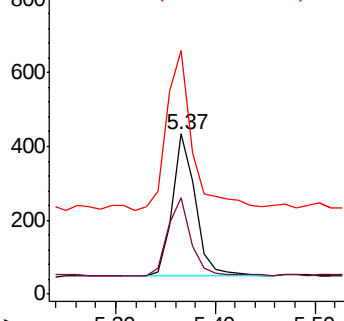
63 127.3 96.9 145.3

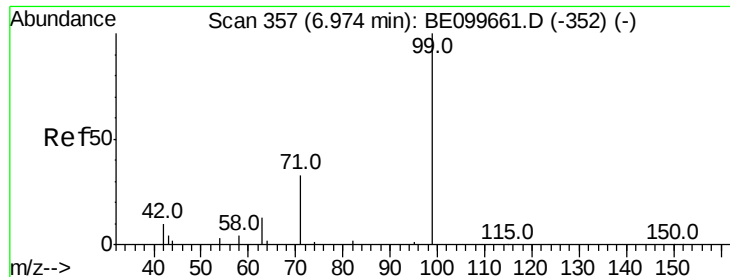


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.133 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

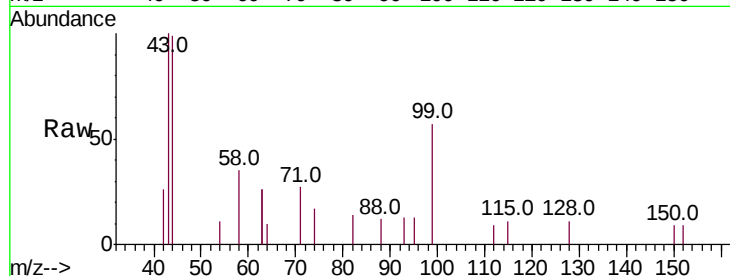
Tot Ion: 99 Resp: 540

Ion Ratio Lower Upper

99 100

42 21.3 12.2 18.2#

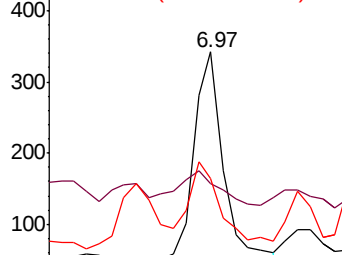
71 38.7 28.9 43.3



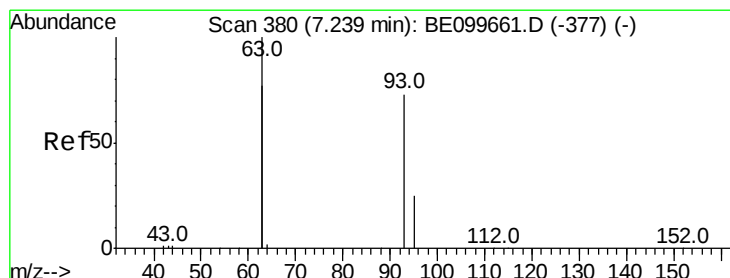
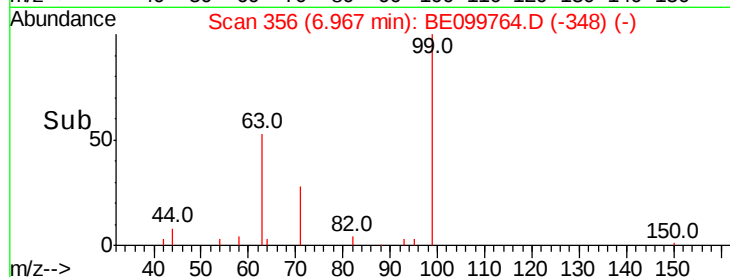
Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.416 ng

RT: 7.22 min Scan# 378

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

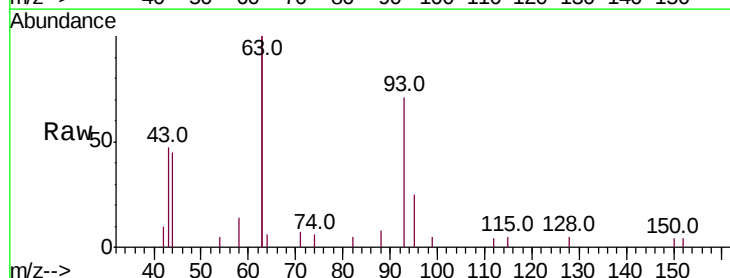
Tgt Ion: 93 Resp: 1507

Ion Ratio Lower Upper

93 100

63 254.4 207.8 311.6

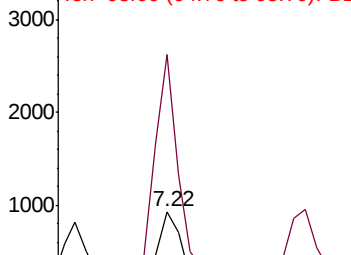
95 30.3 25.9 38.9



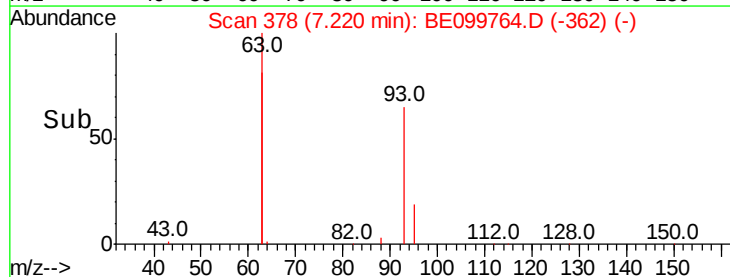
Abundance Ion 93.00 (92.70 to 93.70): BE0

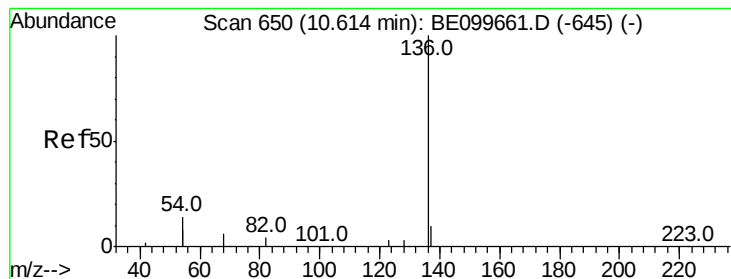
Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0



Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.60 min Scan# 649

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 4510

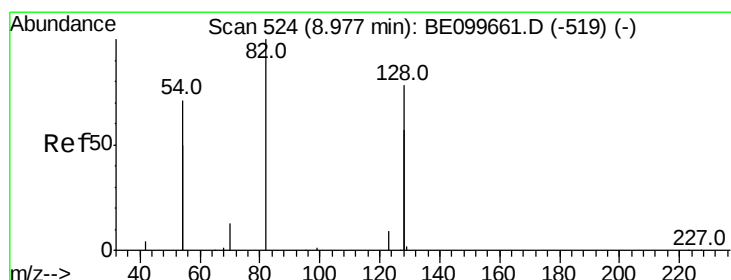
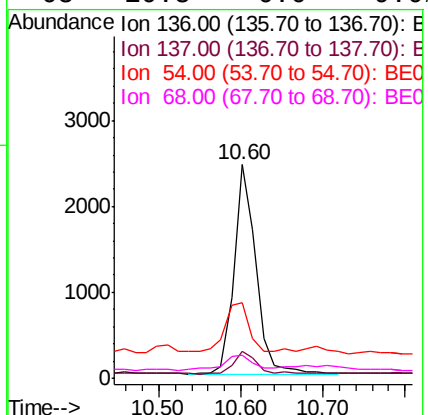
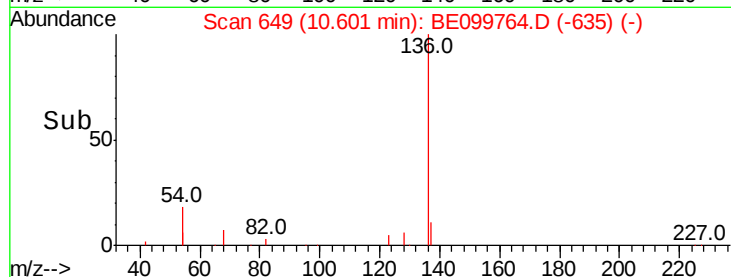
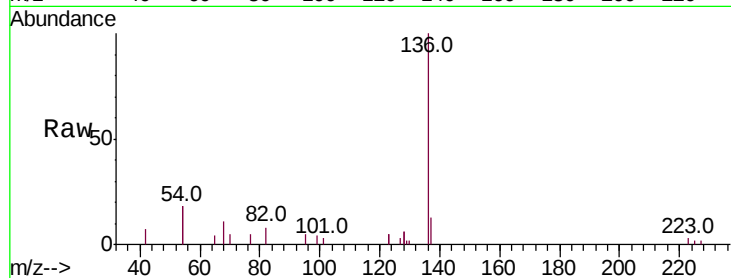
Ion Ratio Lower Upper

136 100

137 12.8 9.0 13.6

54 35.6 22.3 33.5#

68 10.8 6.0 9.0#



#8

Nitrobenzene-d5

Concen: 0.423 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

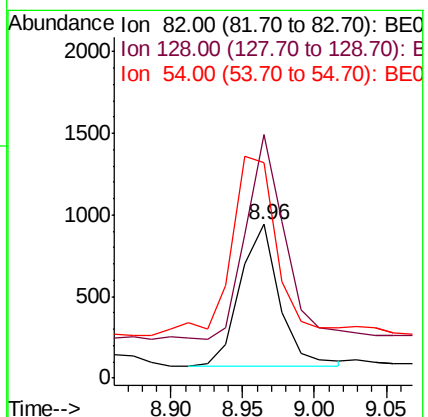
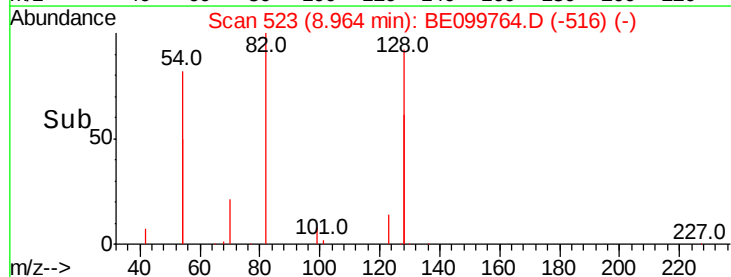
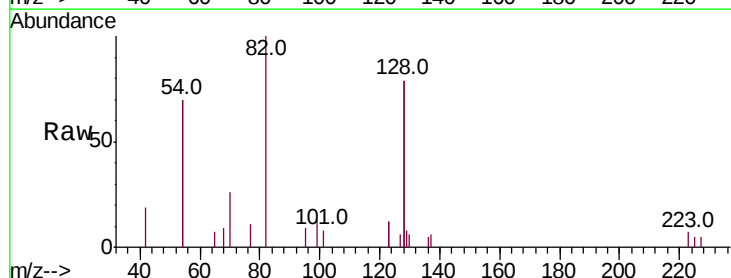
Tgt Ion: 82 Resp: 1651

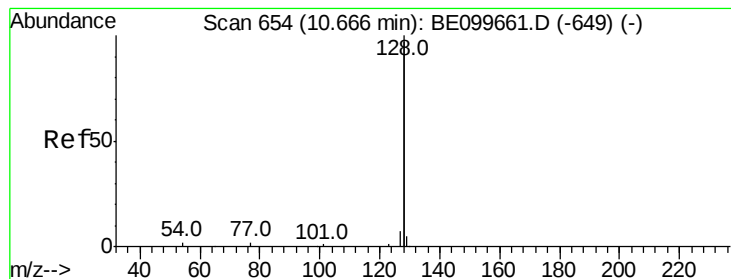
Ion Ratio Lower Upper

82 100

128 158.2 117.7 176.5

54 139.8 106.6 160.0





#9

Naphthalene

Concen: 0.398 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

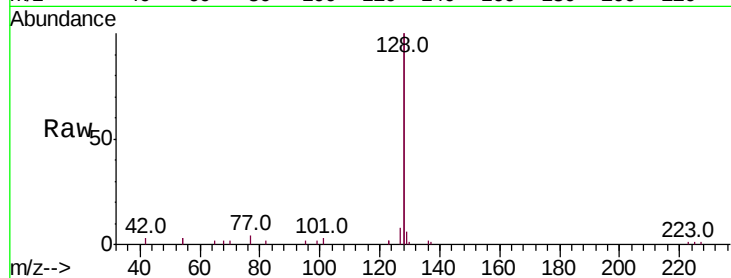
Tot Ion:128 Resp: 19207

Ion Ratio Lower Upper

128 100

129 3.2 2.4 3.6

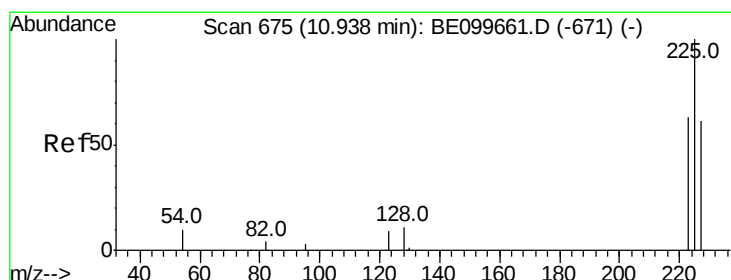
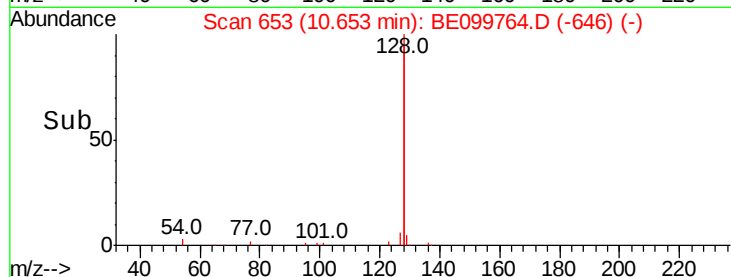
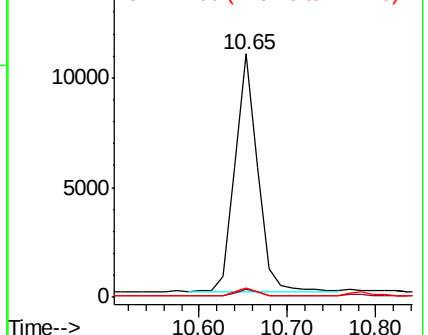
127 3.8 2.9 4.3



Abundance Ion 128.00 (127.70 to 128.70): E

15000 Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.336 ng

RT: 10.93 min Scan# 674

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

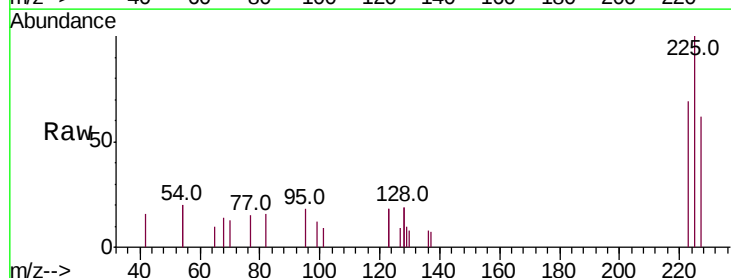
Tgt Ion:225 Resp: 1193

Ion Ratio Lower Upper

225 100

223 63.5 51.8 77.6

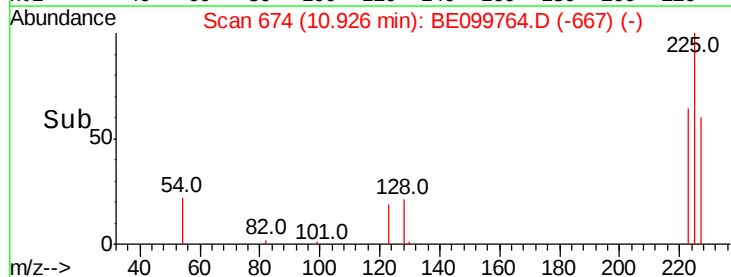
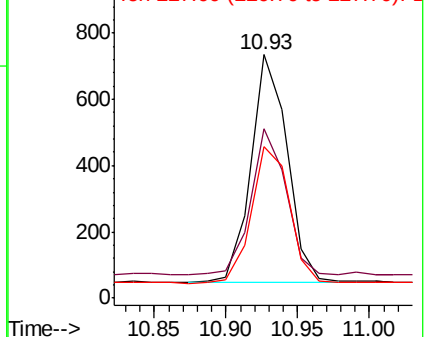
227 64.1 52.6 79.0

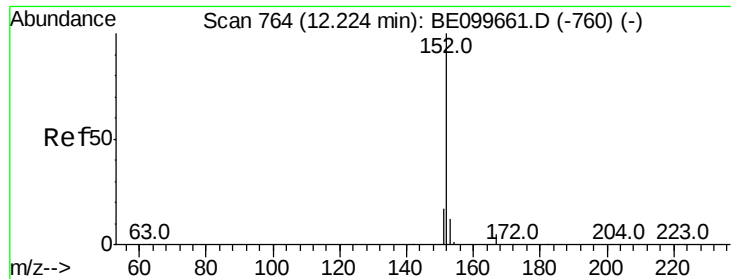


Abundance Ion 225.00 (224.70 to 225.70): E

1000 Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

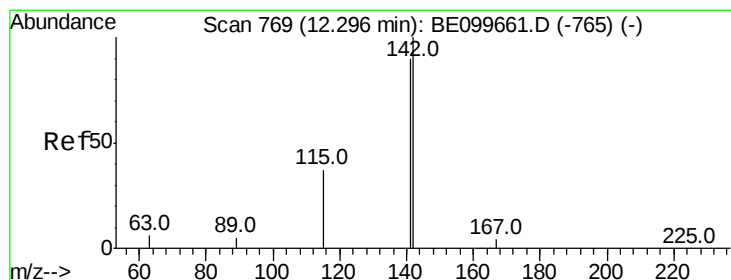
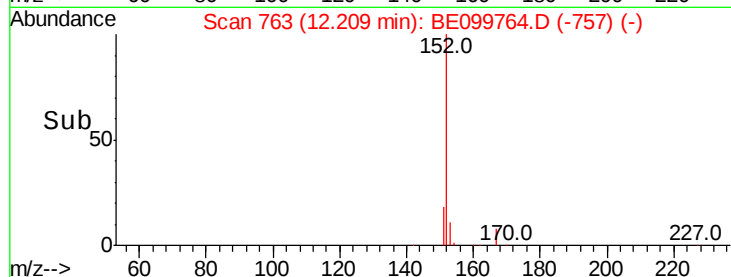
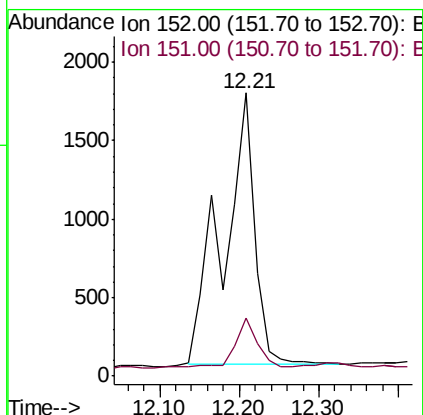
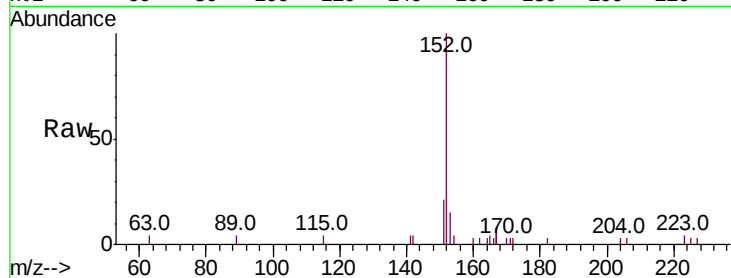




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.611 ng  
 RT: 12.21 min Scan# 763  
 Delta R.T. -0.02 min  
 Lab File: BE099764.D  
 Acq: 28 May 2019 19:31

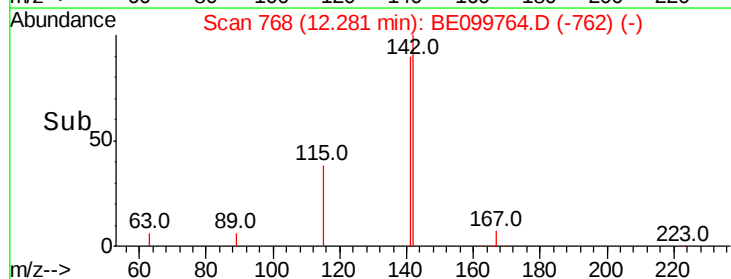
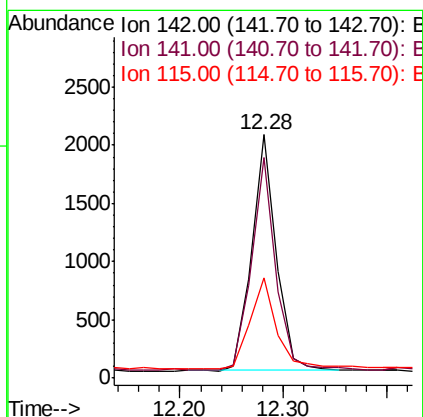
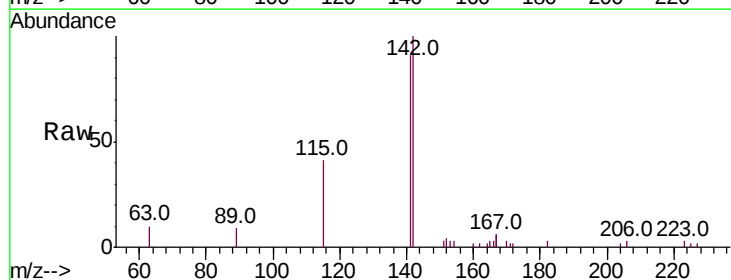
Instrument :  
 BNA\_E  
 ClientSampleId :

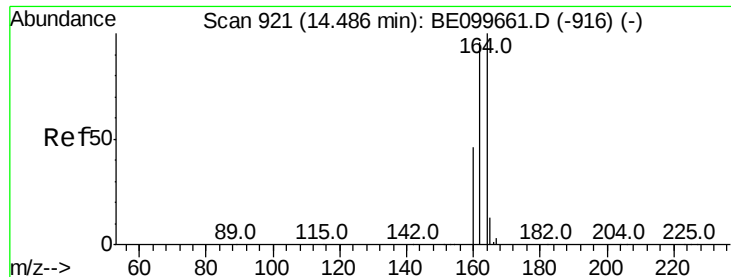
Tot Ion:152 Resp: 4758  
 Ion Ratio Lower Upper  
 152 100  
 151 12.1 15.0 22.4#



#12  
 2-Methylnaphthalene  
 Concen: 0.426 ng  
 RT: 12.28 min Scan# 768  
 Delta R.T. -0.02 min  
 Lab File: BE099764.D  
 Acq: 28 May 2019 19:31

Tgt Ion:142 Resp: 3350  
 Ion Ratio Lower Upper  
 142 100  
 141 90.8 72.0 108.0  
 115 41.1 31.0 46.4

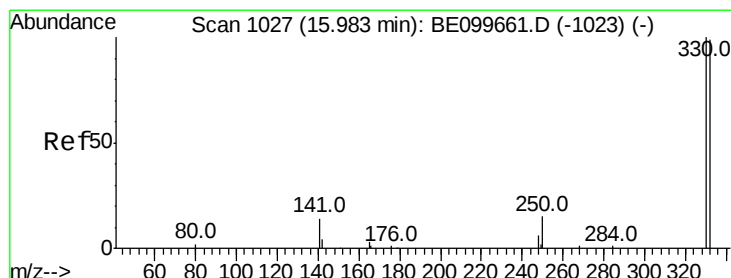
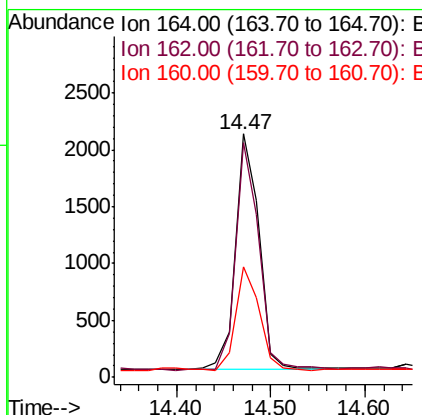
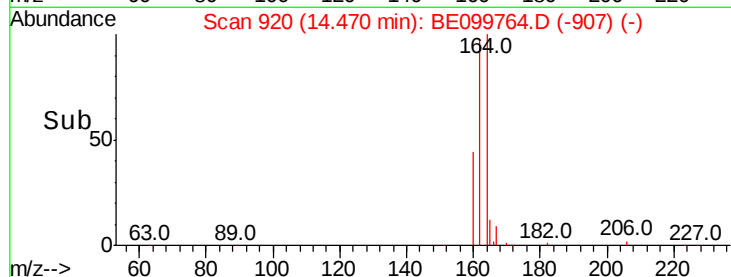
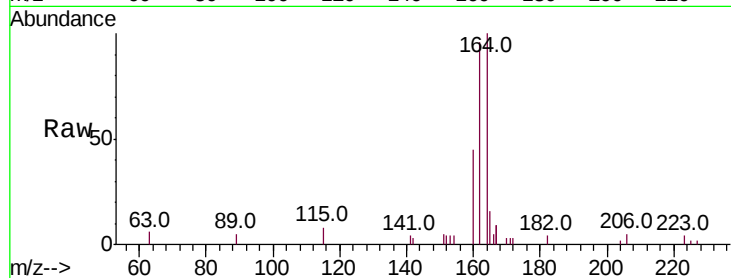




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.47 min Scan# 920  
 Delta R.T. -0.02 min  
 Lab File: BE099764.D  
 Acq: 28 May 2019 19:31

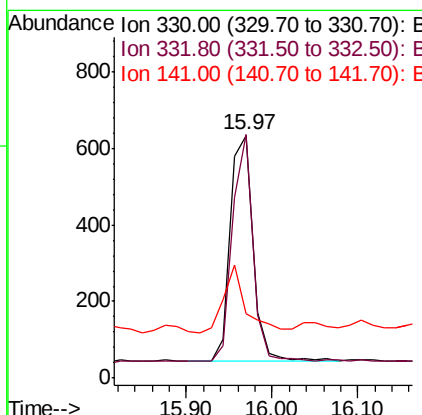
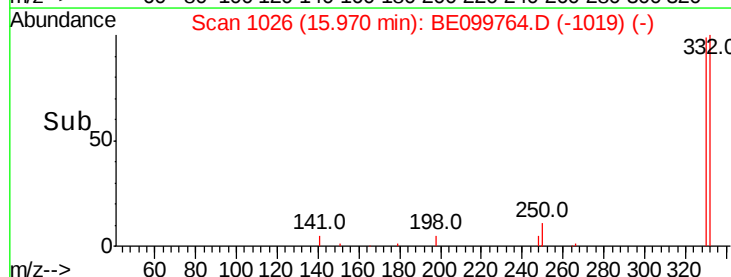
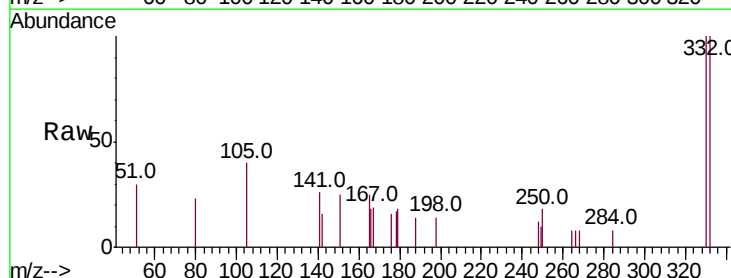
Instrument :  
 BNA\_E  
 ClientSampled :

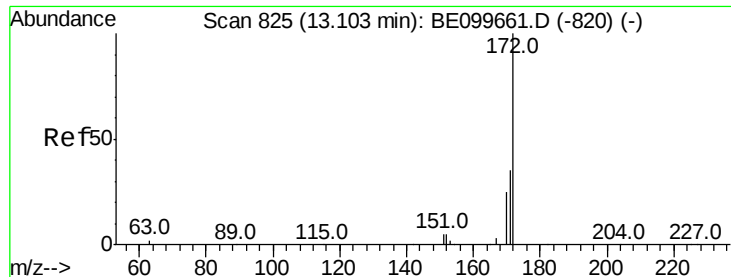
Tot Ion:164 Resp: 3624  
 Ion Ratio Lower Upper  
 164 100  
 162 96.3 76.5 114.7  
 160 45.4 37.4 56.2



#14  
 2,4,6-Tribromophenol  
 Concen: 0.518 ng  
 RT: 15.97 min Scan# 1026  
 Delta R.T. -0.01 min  
 Lab File: BE099764.D  
 Acq: 28 May 2019 19:31

Tgt Ion:330 Resp: 1084  
 Ion Ratio Lower Upper  
 330 100  
 332 90.1 77.3 115.9  
 141 28.9 18.9 28.3#

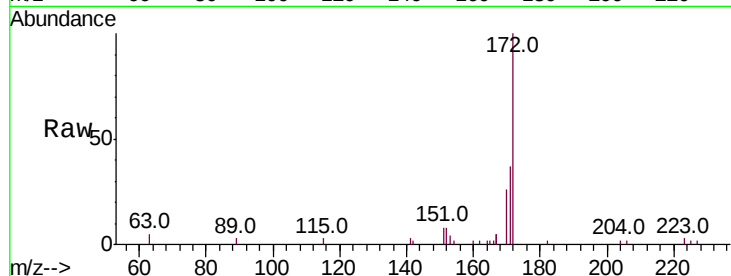




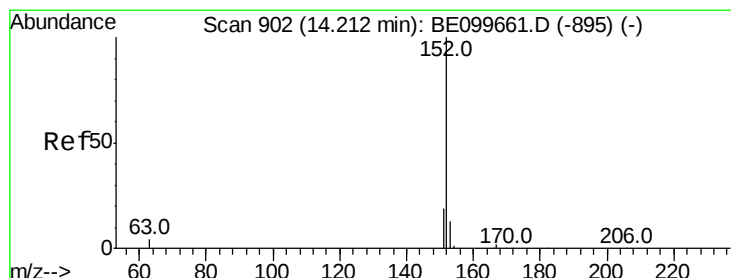
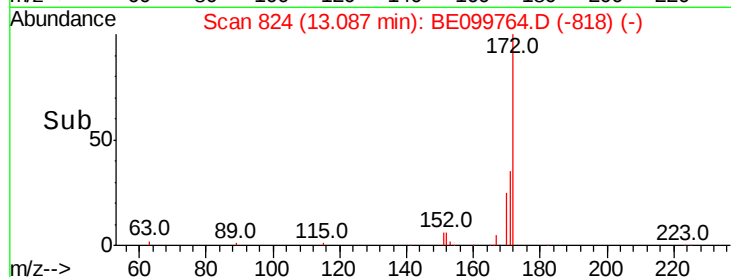
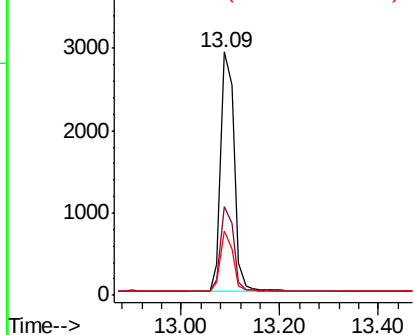
#15  
2-Fluorobiphenyl  
Concen: 0.399 ng  
RT: 13.09 min Scan# 824  
Delta R.T. -0.02 min  
Lab File: BE099764.D  
Acq: 28 May 2019 19:31

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 5491  
Ion Ratio Lower Upper  
172 100  
171 36.5 28.7 43.1  
170 26.2 20.9 31.3

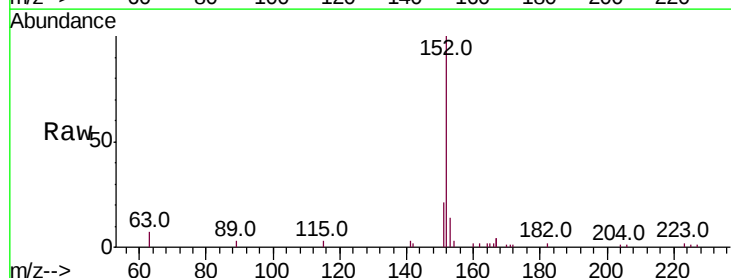


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

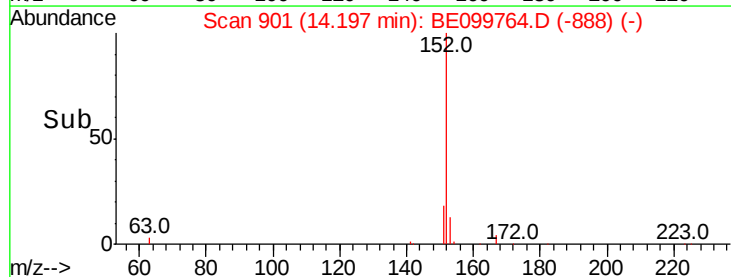
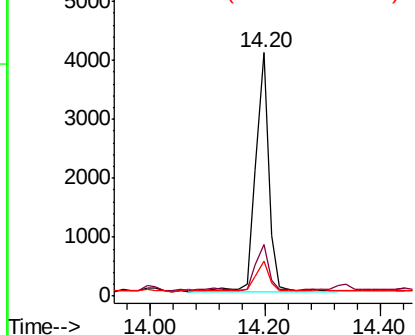


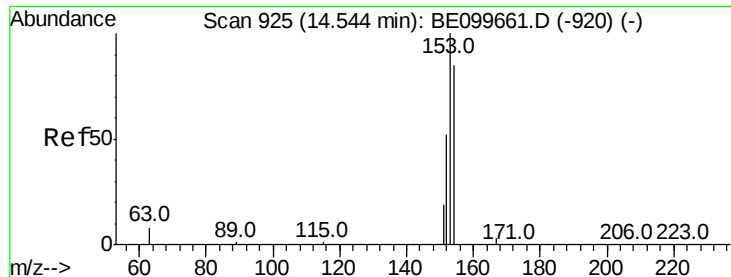
#16  
Acenaphthylene  
Concen: 0.388 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.02 min  
Lab File: BE099764.D  
Acq: 28 May 2019 19:31

Tgt Ion:152 Resp: 6555  
Ion Ratio Lower Upper  
152 100  
151 19.3 15.9 23.9  
153 13.2 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: 0.382 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.00 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

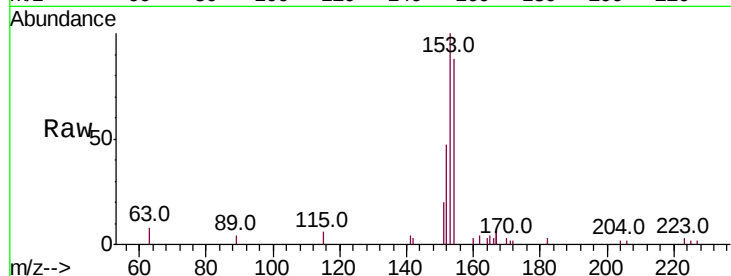
Tot Ion:154 Resp: 3620

Ion Ratio Lower Upper

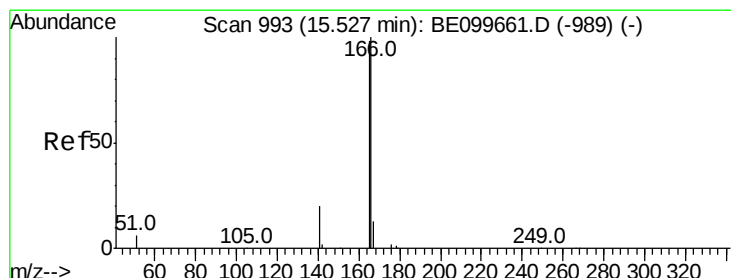
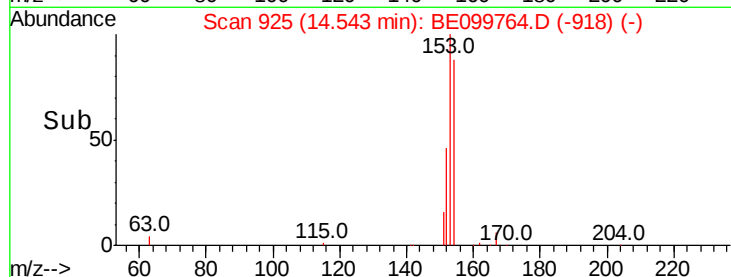
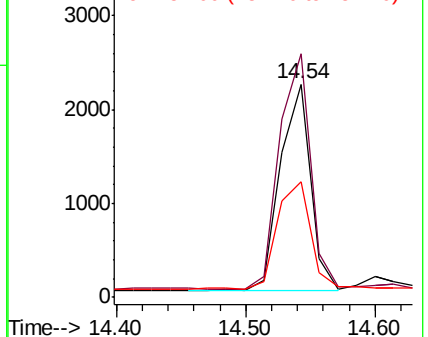
154 100

153 116.9 91.8 137.6

152 56.3 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



#18

Fluorene

Concen: 0.398 ng

RT: 15.51 min Scan# 992

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

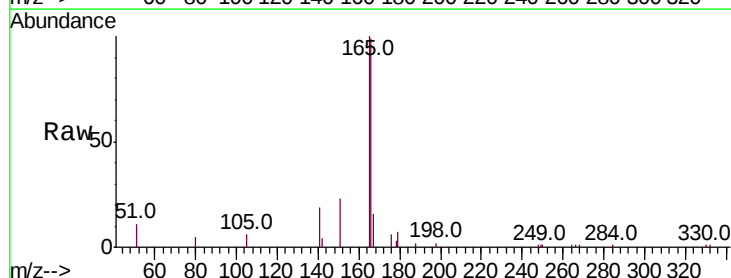
Tgt Ion:166 Resp: 5560

Ion Ratio Lower Upper

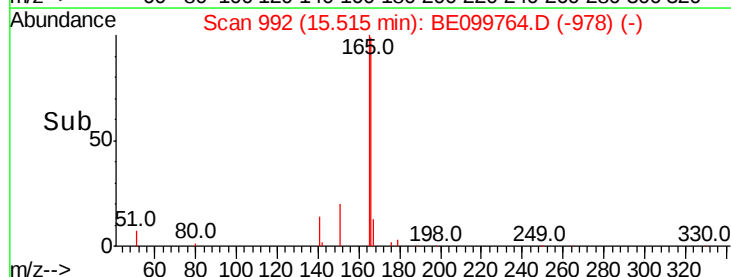
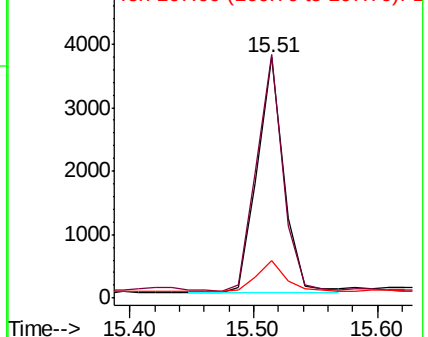
166 100

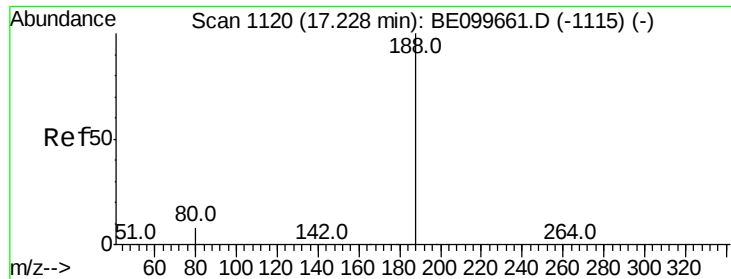
165 99.3 80.3 120.5

167 14.6 10.6 16.0



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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

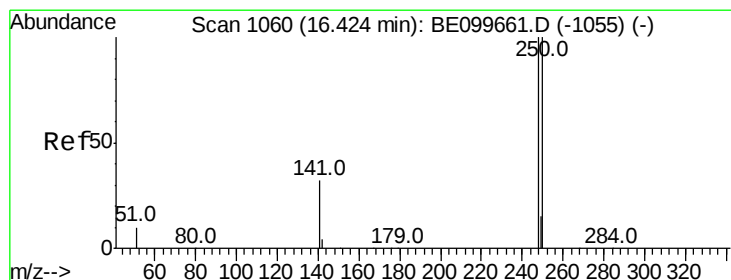
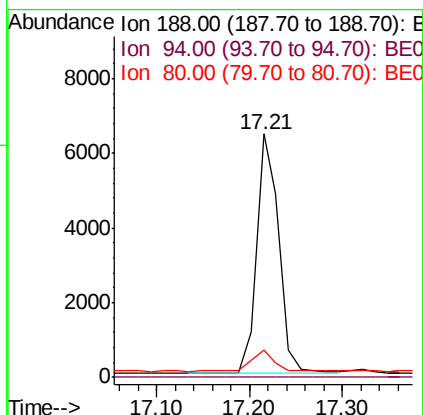
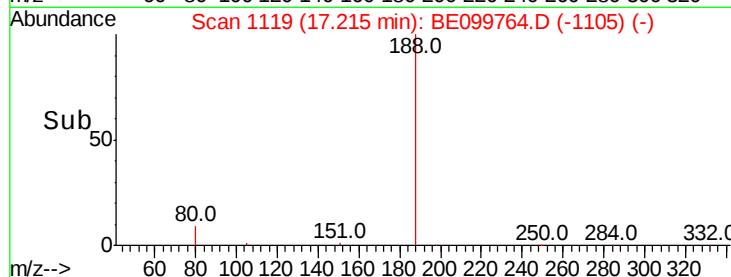
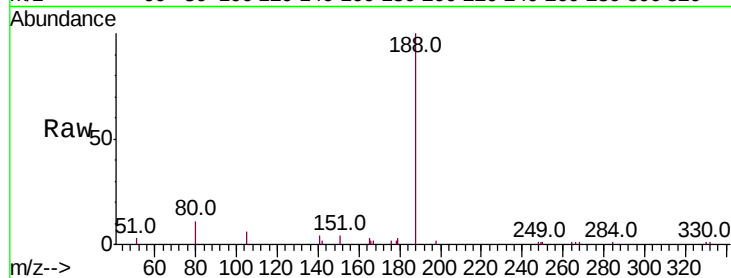
Tot Ion:188 Resp: 10663

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 6.7 10.1#



#20

4-Bromophenyl-phenylether

Concen: 0.393 ng

RT: 16.41 min Scan# 1059

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

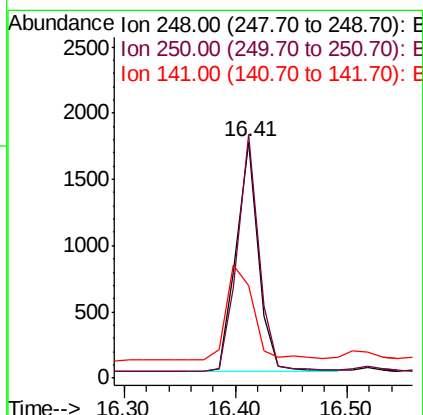
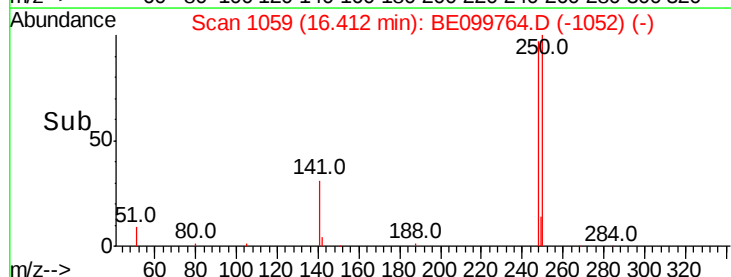
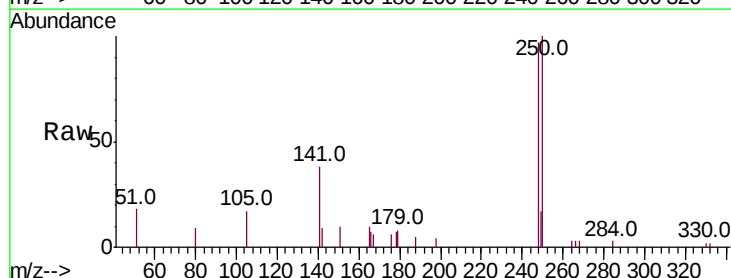
Tgt Ion:248 Resp: 2414

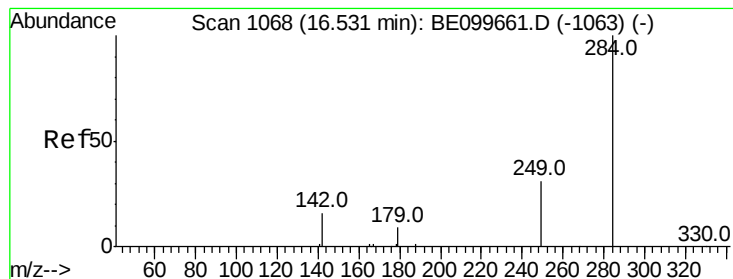
Ion Ratio Lower Upper

248 100

250 103.0 79.8 119.8

141 39.0 27.0 40.6





#21

Hexachlorobenzene

Concen: 0.352 ng

RT: 16.52 min Scan# 1067

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

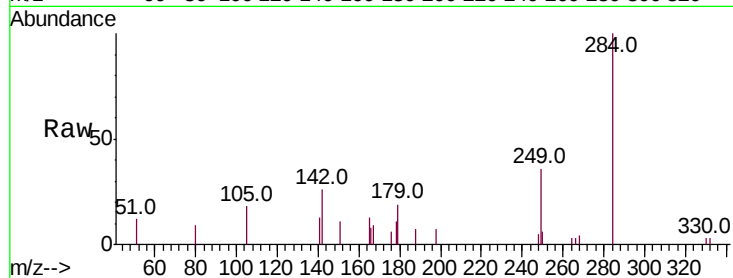
Tot Ion:284 Resp: 2217

Ion Ratio Lower Upper

284 100

142 25.1 17.8 26.6

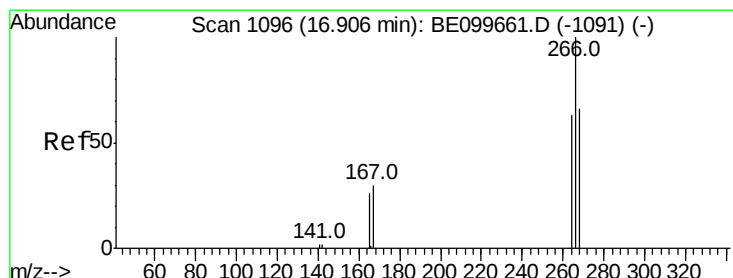
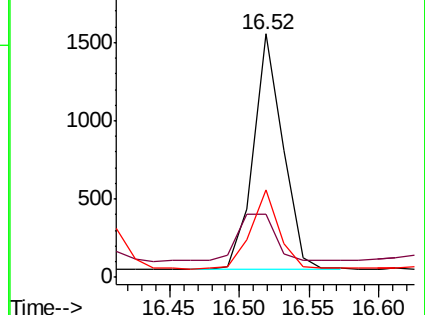
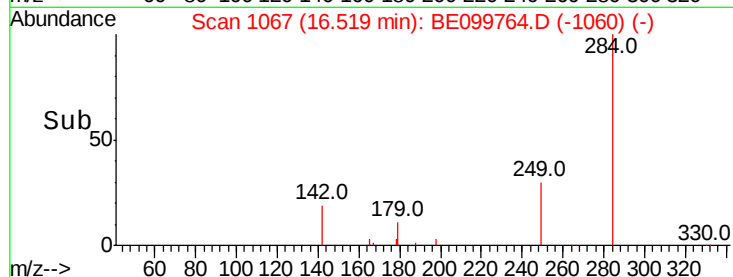
249 32.5 24.8 37.2



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: 1.495 ng

RT: 16.87 min Scan# 1093

Delta R.T. -0.04 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

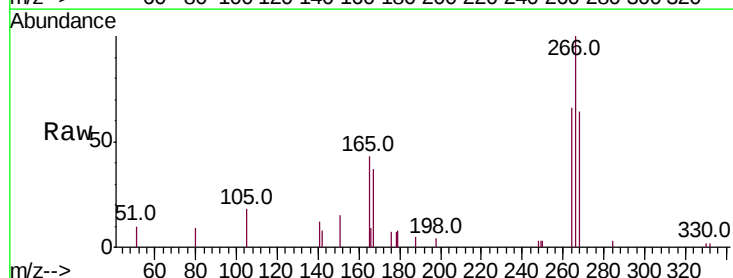
Tgt Ion:266 Resp: 2937

Ion Ratio Lower Upper

266 100

264 66.3 57.2 85.8

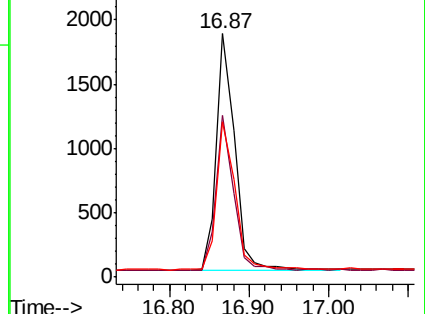
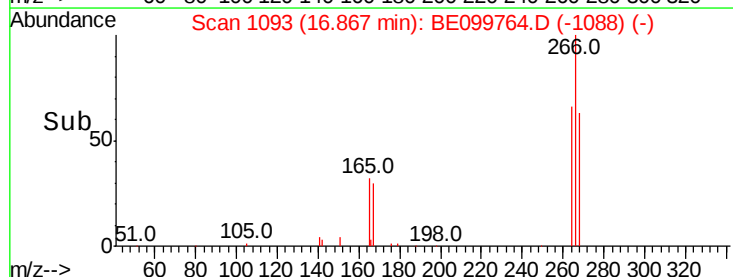
268 64.0 60.5 90.7

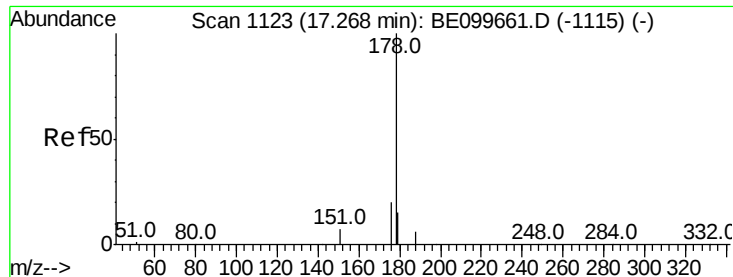


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.420 ng

RT: 17.25 min Scan# 1122

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampled :

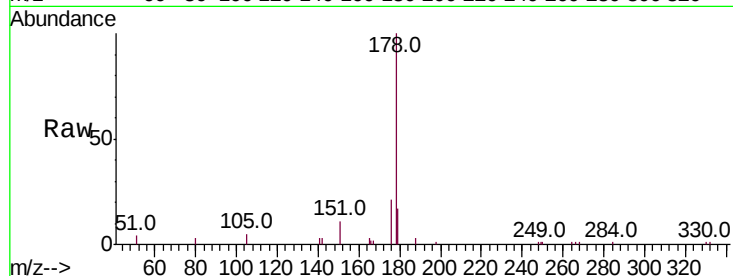
Tot Ion:178 Resp: 10938

Ion Ratio Lower Upper

178 100

176 19.9 15.6 23.4

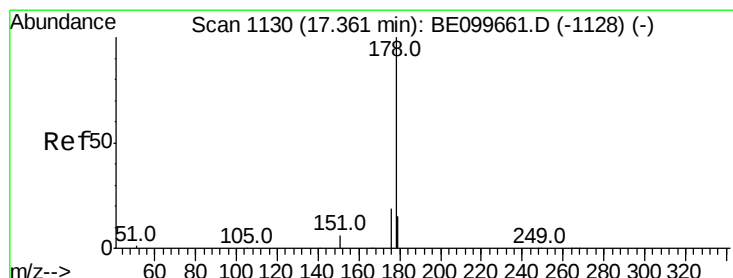
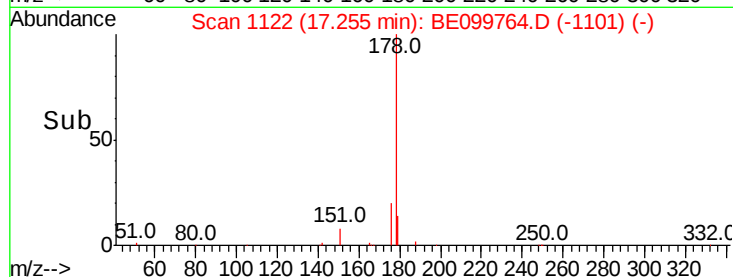
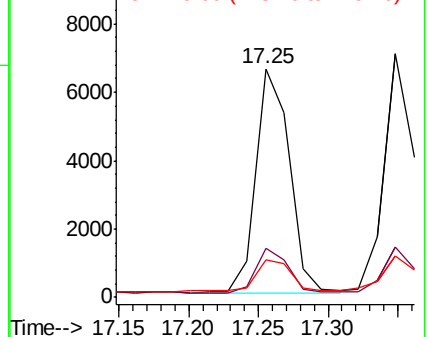
179 17.0 12.2 18.4



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: 0.443 ng

RT: 17.35 min Scan# 1129

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

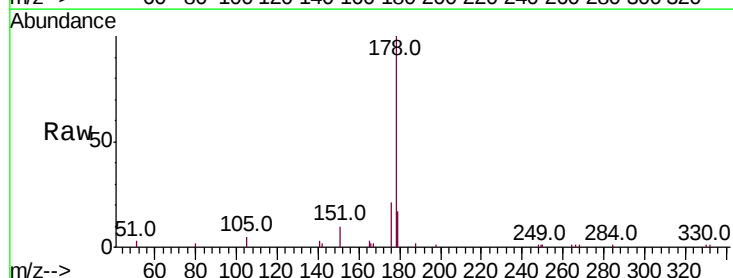
Tgt Ion:178 Resp: 10472

Ion Ratio Lower Upper

178 100

176 19.8 14.7 22.1

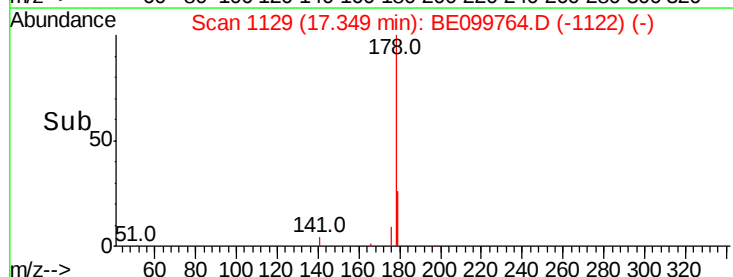
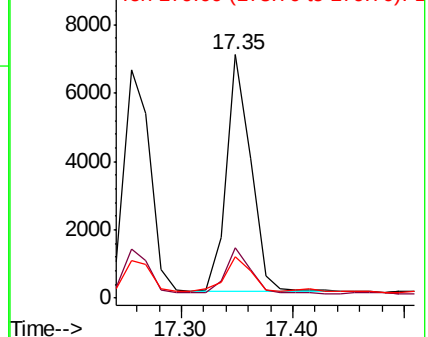
179 15.7 12.0 18.0

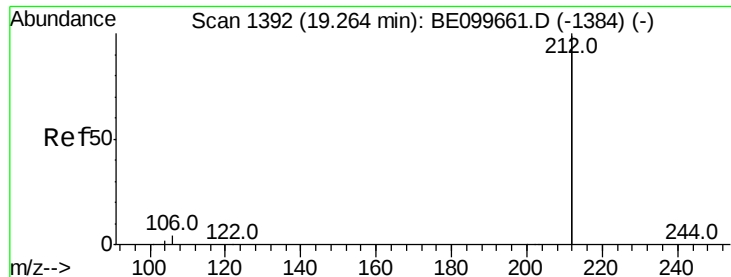


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.409 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

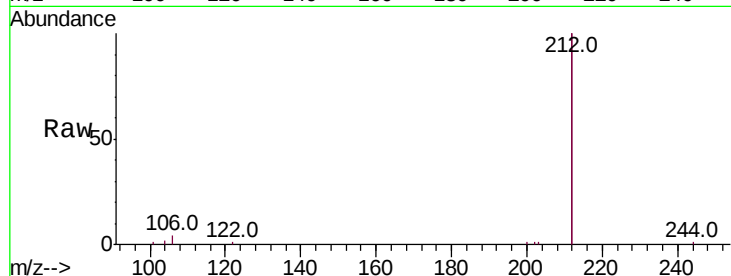
Tot Ion:212 Resp: 59546

Ion Ratio Lower Upper

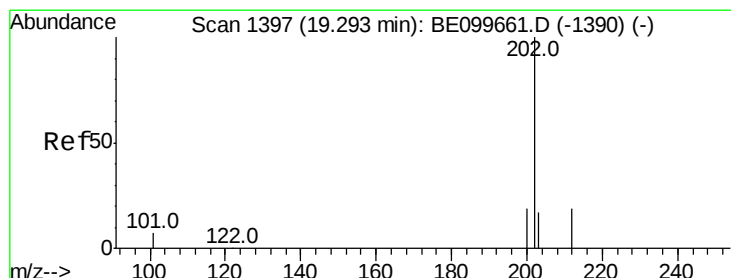
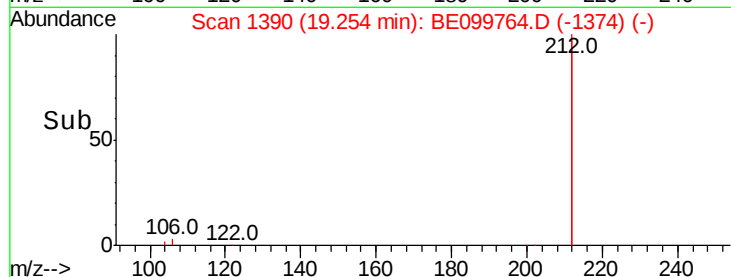
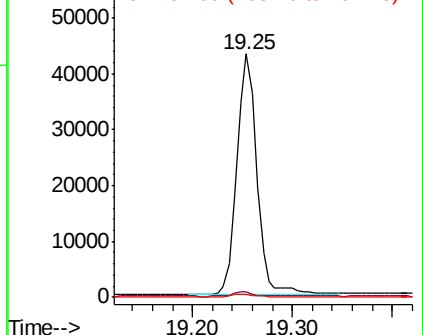
212 100

106 1.8 1.4 2.2

104 1.2 0.8 1.2



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



#26

Fluoranthene

Concen: 0.434 ng

RT: 19.28 min Scan# 1395

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

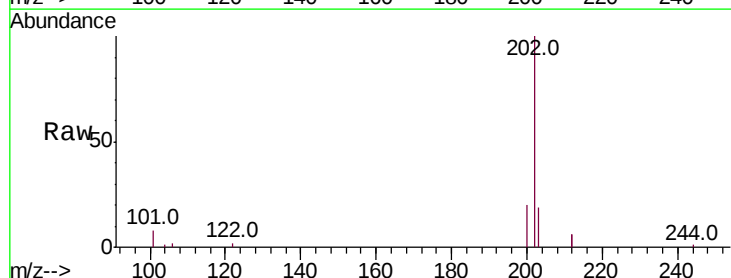
Tgt Ion:202 Resp: 17891

Ion Ratio Lower Upper

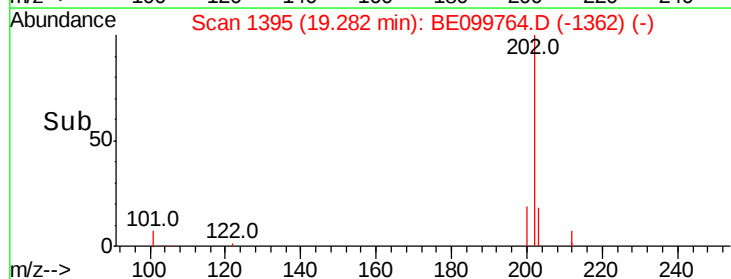
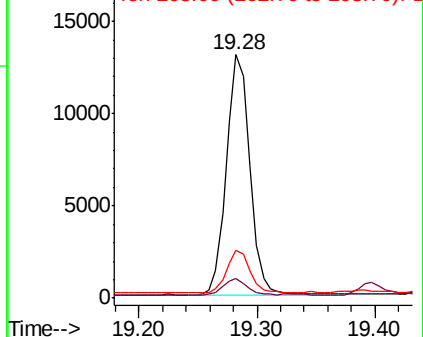
202 100

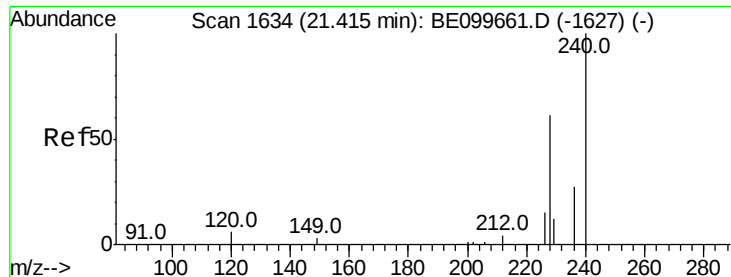
101 7.5 5.2 7.8

203 17.6 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# 1632

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

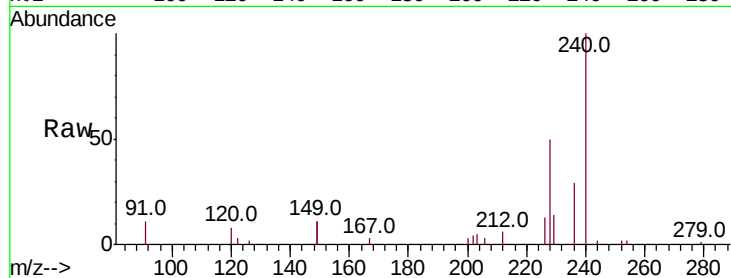
Tot Ion:240 Resp: 15504

Ion Ratio Lower Upper

240 100

120 7.7 5.4 8.0

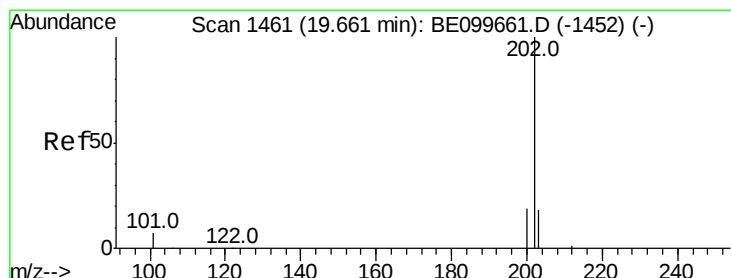
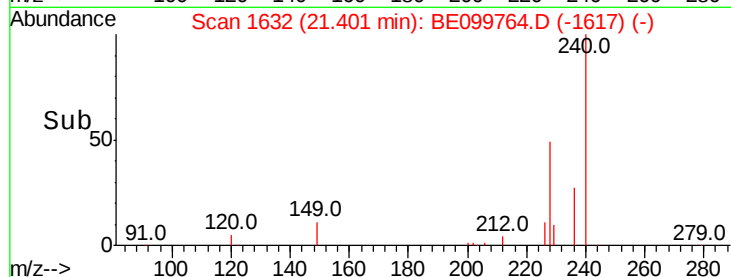
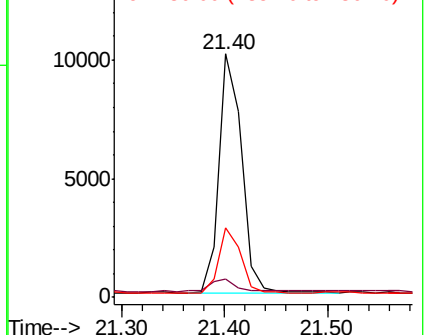
236 28.6 21.7 32.5



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: 0.481 ng

RT: 19.64 min Scan# 1458

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

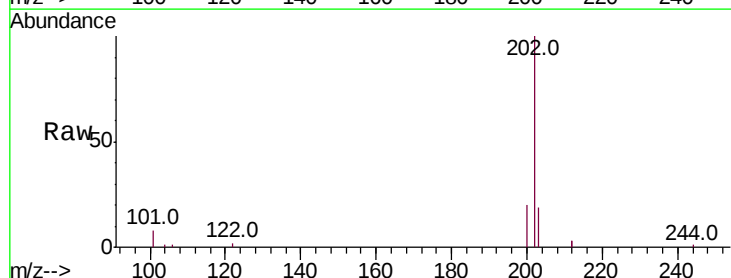
Tgt Ion:202 Resp: 18718

Ion Ratio Lower Upper

202 100

200 20.1 15.4 23.2

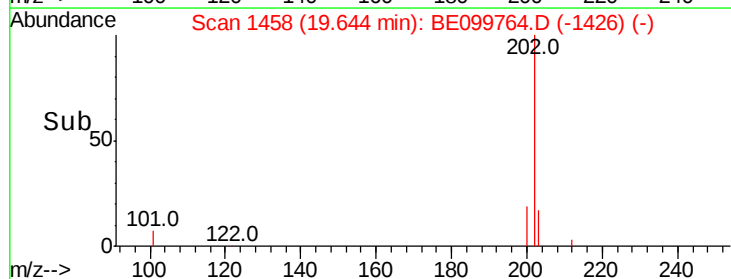
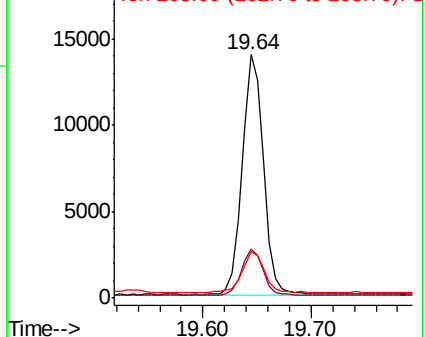
203 17.7 13.8 20.8

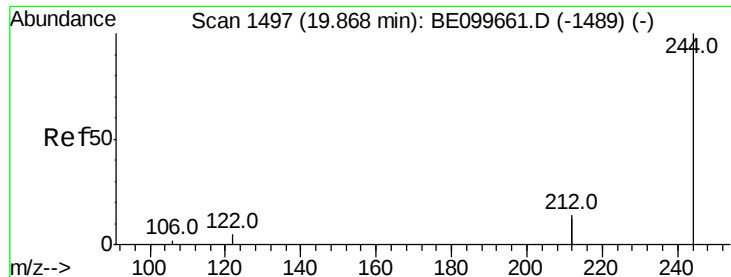


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.638 ng

RT: 19.85 min Scan# 1494

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

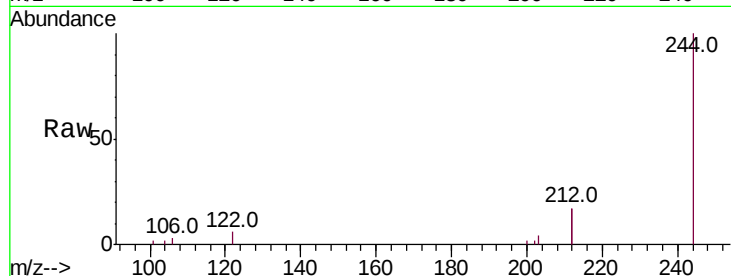
Tot Ion:244 Resp: 17656

Ion Ratio Lower Upper

244 100

212 33.0 22.5 33.7

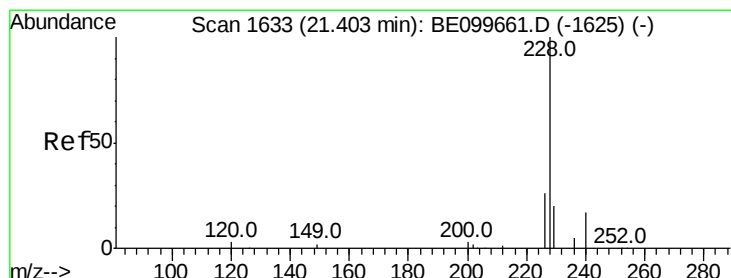
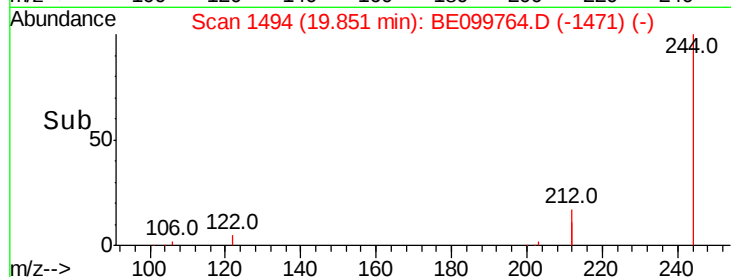
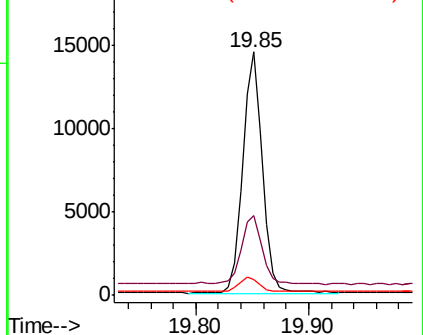
122 6.2 4.3 6.5



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: 0.489 ng

RT: 21.39 min Scan# 1631

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

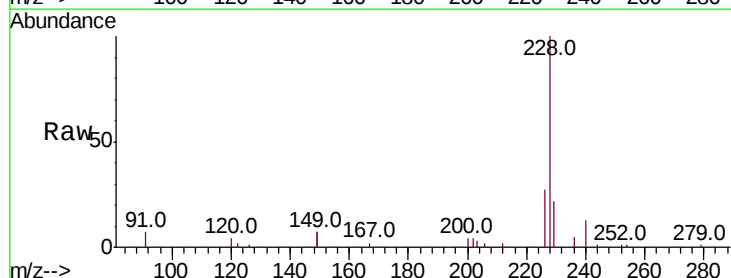
Tgt Ion:228 Resp: 21555

Ion Ratio Lower Upper

228 100

226 27.1 21.3 31.9

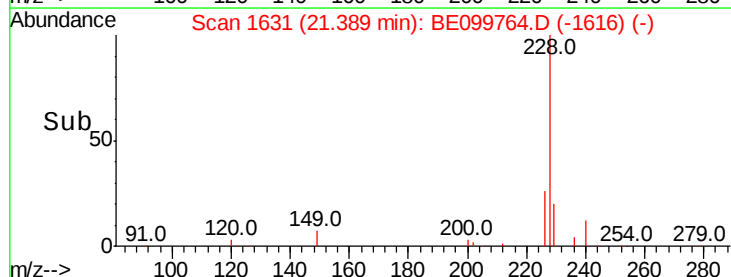
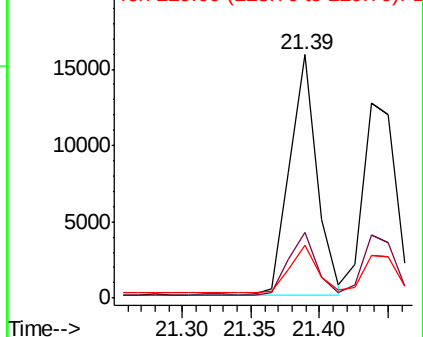
229 22.0 16.1 24.1

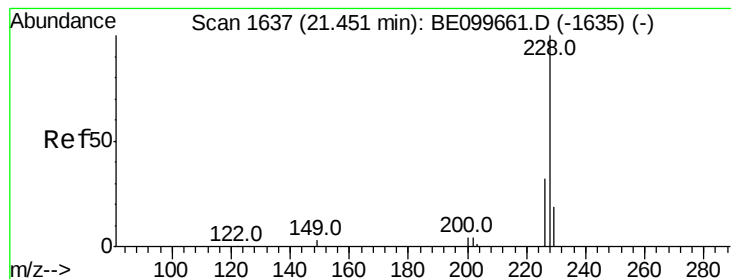


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.442 ng

RT: 21.44 min Scan# 1635

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

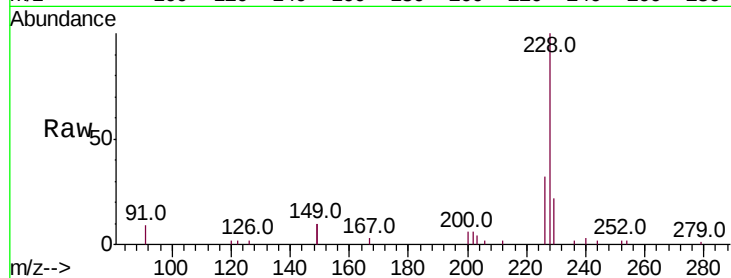
Tot Ion:228 Resp: 20801

Ion Ratio Lower Upper

228 100

226 32.3 24.7 37.1

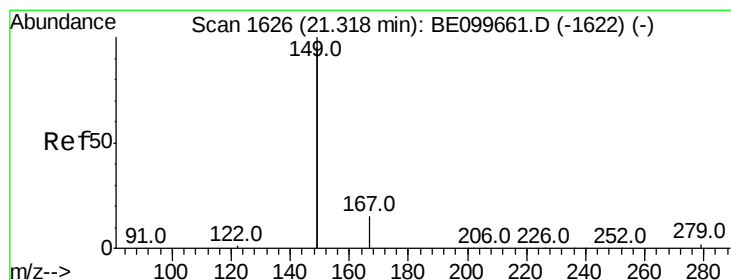
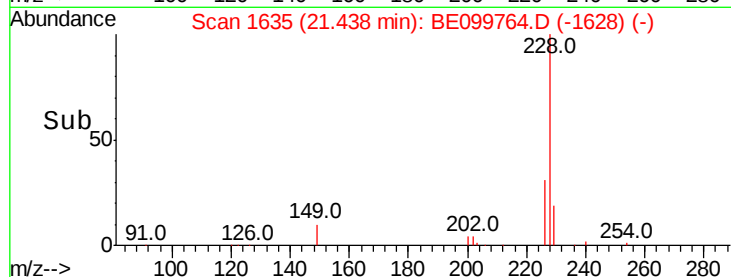
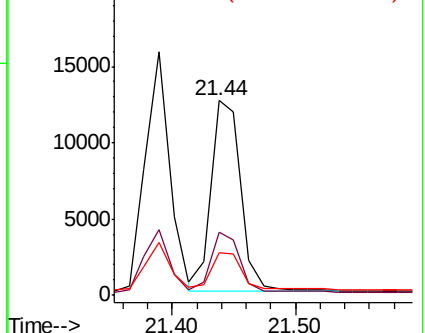
229 21.8 15.8 23.6



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: 1.058 ng

RT: 21.30 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

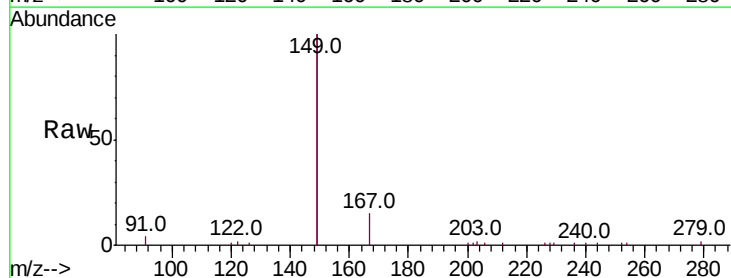
Tgt Ion:149 Resp: 53696

Ion Ratio Lower Upper

149 100

167 7.6 6.2 9.4

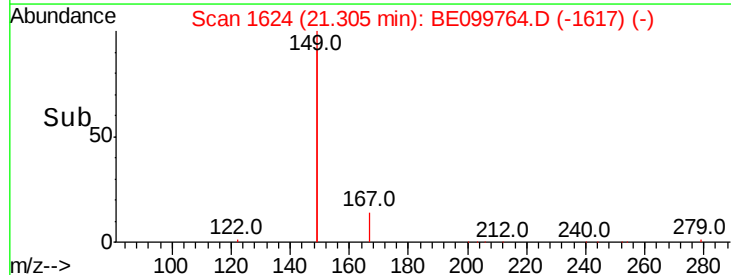
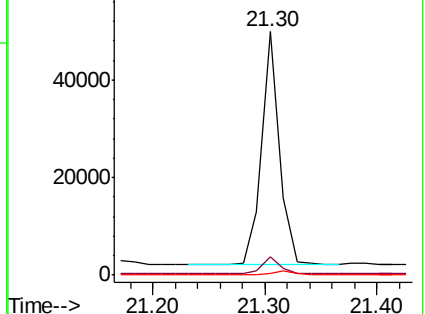
279 1.4 1.2 1.8

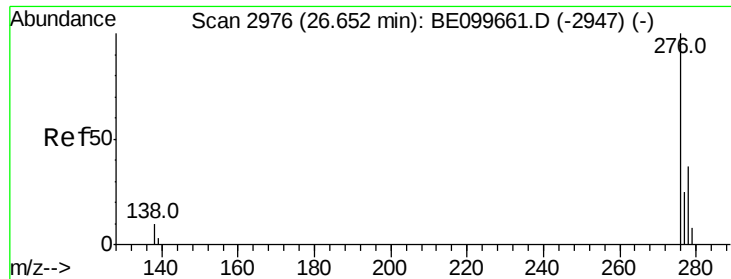


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.403 ng

RT: 26.63 min Scan# 2969

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

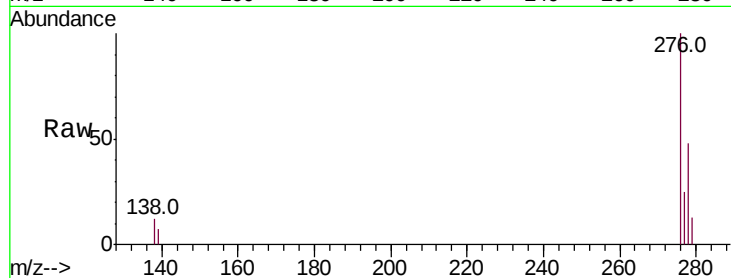
Tot Ion:276 Resp: 22936

Ion Ratio Lower Upper

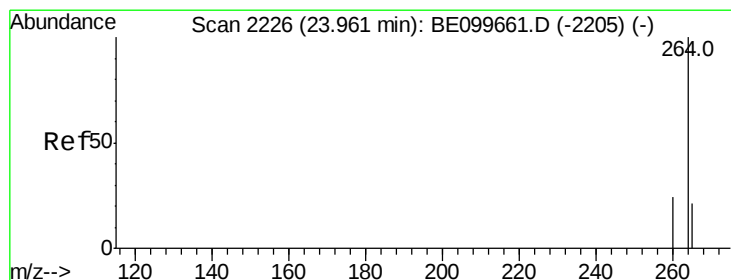
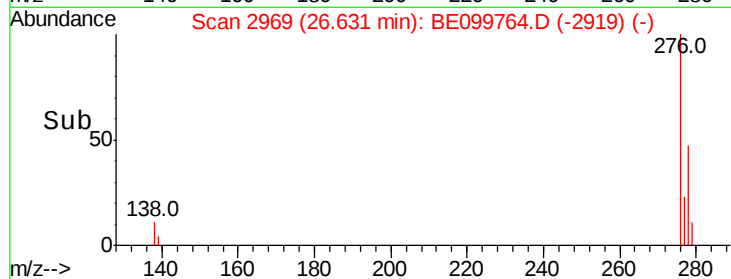
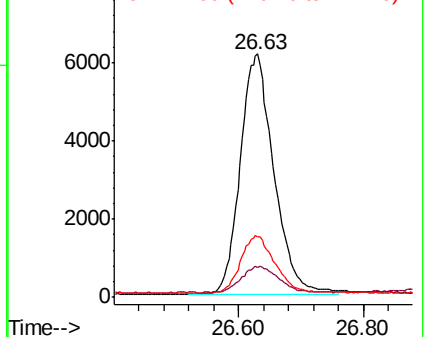
276 100

138 11.6 9.6 14.4

277 24.5 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: BE099764.D

Acq: 28 May 2019 19:31

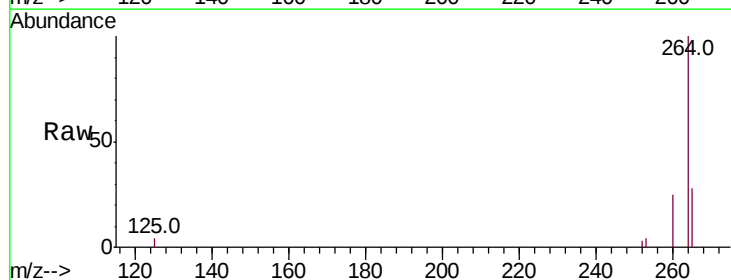
Tgt Ion:264 Resp: 18346

Ion Ratio Lower Upper

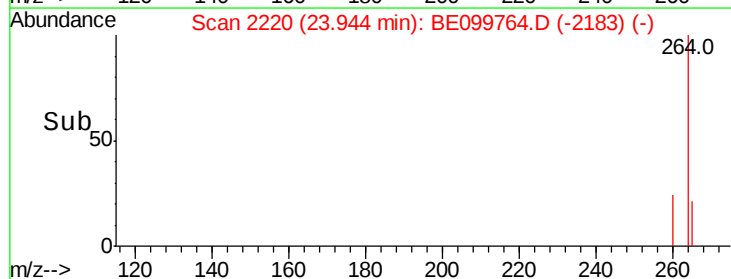
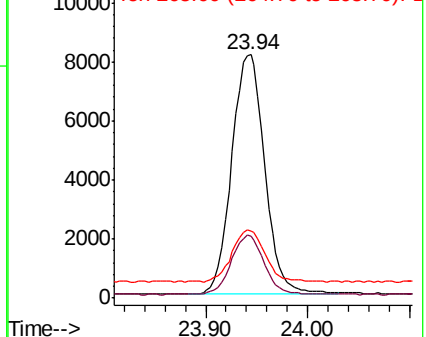
264 100

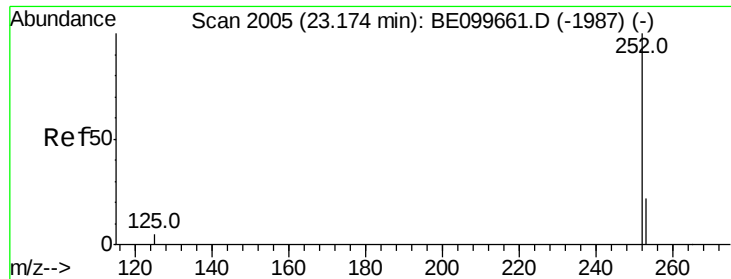
260 25.4 19.6 29.4

265 27.6 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

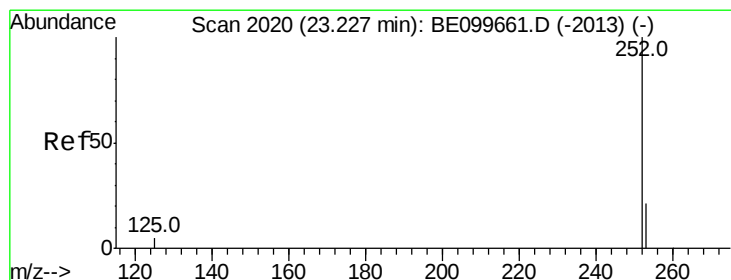
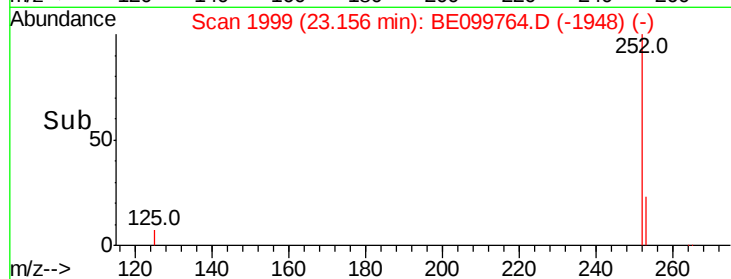
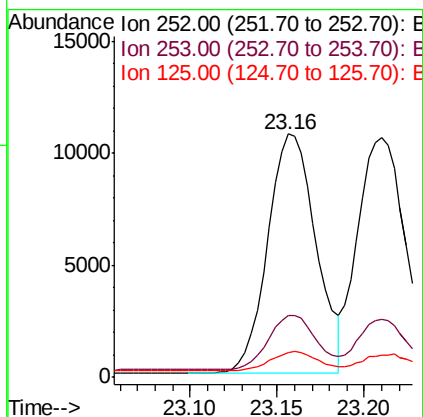
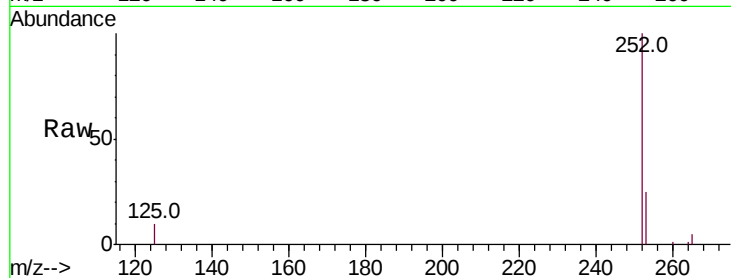




#35  
Benzo(b)fluoranthene  
Concen: 0.407 ng  
RT: 23.16 min Scan# 1999  
Delta R.T. -0.02 min  
Lab File: BE099764.D  
Acq: 28 May 2019 19:31

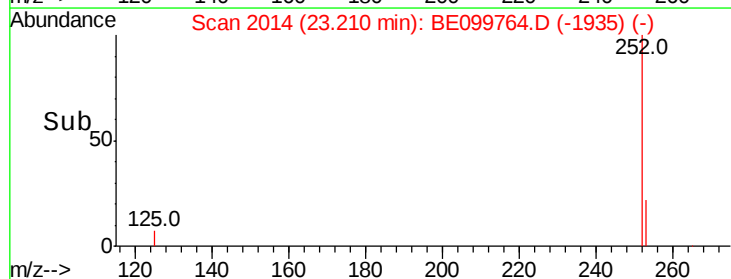
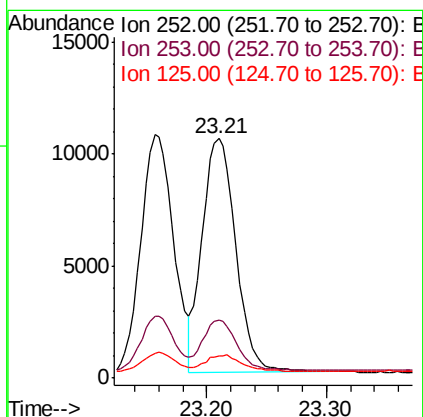
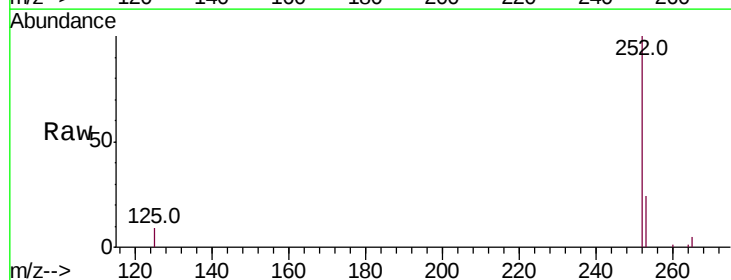
Instrument :  
BNA\_E  
ClientSampleId :

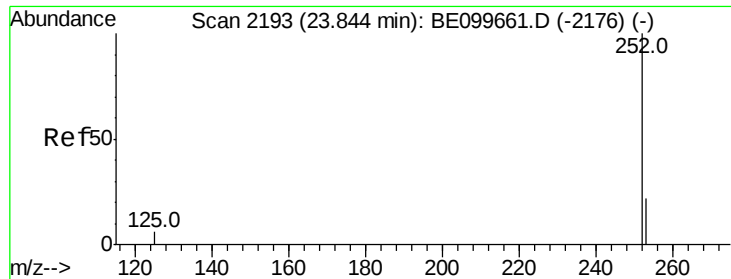
Tot Ion:252 Resp: 20484  
Ion Ratio Lower Upper  
252 100  
253 25.3 18.2 27.4  
125 10.1 4.5 6.7#



#36  
Benzo(k)fluoranthene  
Concen: 0.389 ng  
RT: 23.21 min Scan# 2014  
Delta R.T. -0.02 min  
Lab File: BE099764.D  
Acq: 28 May 2019 19:31

Tgt Ion:252 Resp: 20400  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.8 26.8  
125 9.4 4.6 6.8#





#37

Benzo(a)pyrene

Concen: 0.407 ng

RT: 23.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

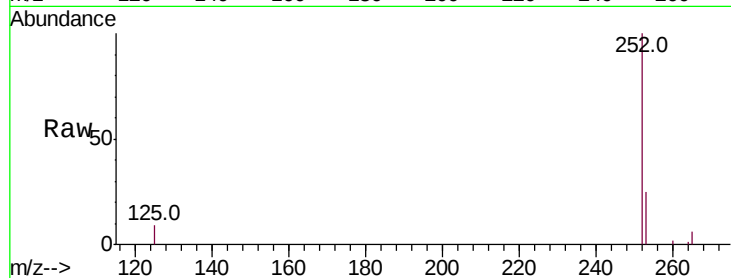
Tot Ion:252 Resp: 19707

Ion Ratio Lower Upper

252 100

253 25.2 18.9 28.3

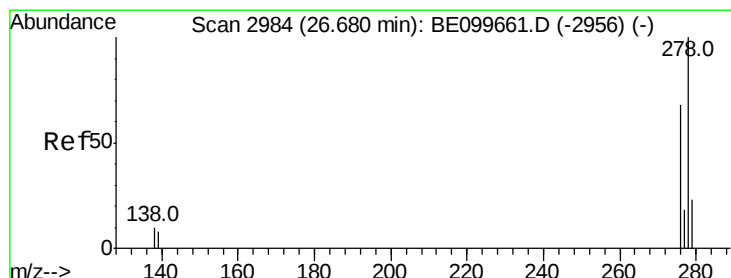
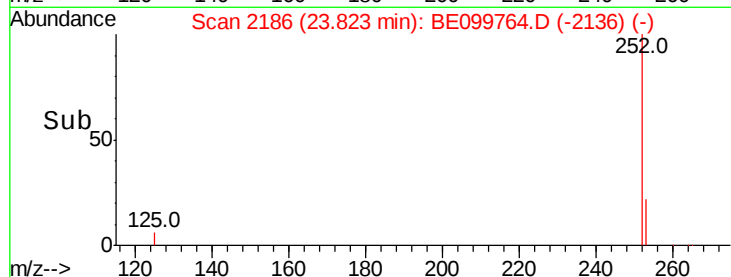
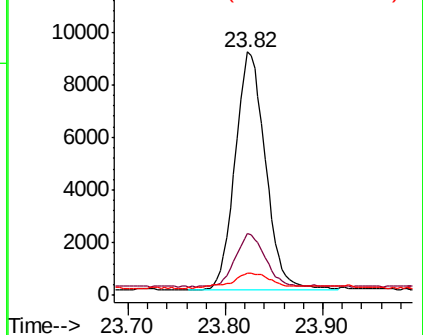
125 9.0 5.4 8.0#



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: 0.368 ng

RT: 26.66 min Scan# 2977

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

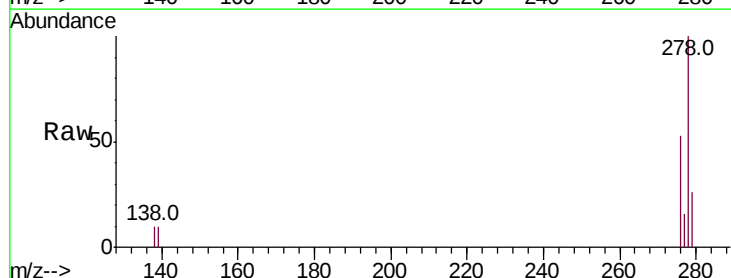
Tgt Ion:278 Resp: 18700

Ion Ratio Lower Upper

278 100

139 10.4 6.9 10.3#

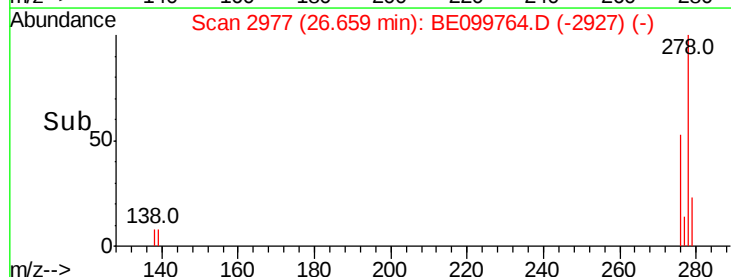
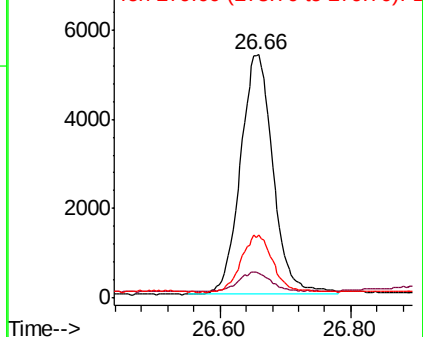
279 25.9 19.2 28.8

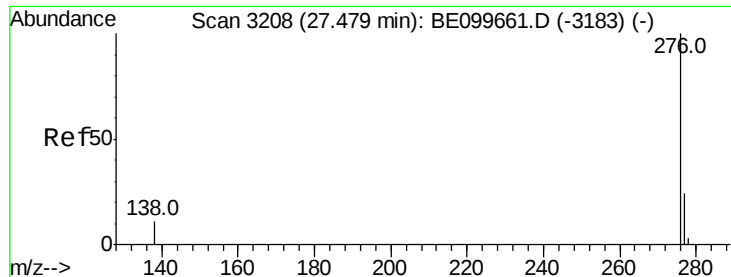


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.387 ng

RT: 27.46 min Scan# 3201

Delta R.T. -0.02 min

Lab File: BE099764.D

Acq: 28 May 2019 19:31

Instrument :

BNA\_E

ClientSampleId :

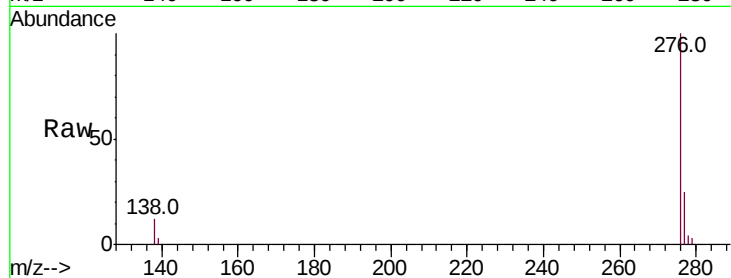
Tot Ion:276 Resp: 19833

Ion Ratio Lower Upper

276 100

277 24.8 19.8 29.6

138 12.4 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

