

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE042919\  
 Data File : BE099407.D  
 Acq On : 29 Apr 2019 14:19  
 Operator : JU/SJ  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Apr 29 16:50:59 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE042919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 29 16:46:21 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 1982     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.61 | 136  | 7115     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.46 | 164  | 4843     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.19 | 188  | 15488    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.37 | 240  | 26832    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.88 | 264  | 30577    | 0.40 | ng    | 0.01     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.39  | 112 | 524   | 0.11 | ng | 0.00 |
| 5) Phenol-d6                | 6.97  | 99  | 594   | 0.09 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.96  | 82  | 556   | 0.10 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152 | 1147  | 0.09 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 15.94 | 330 | 274   | 0.17 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.09 | 172 | 1843  | 0.10 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.22 | 212 | 19593 | 0.11 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.82 | 244 | 4312  | 0.08 | ng | 0.00 |

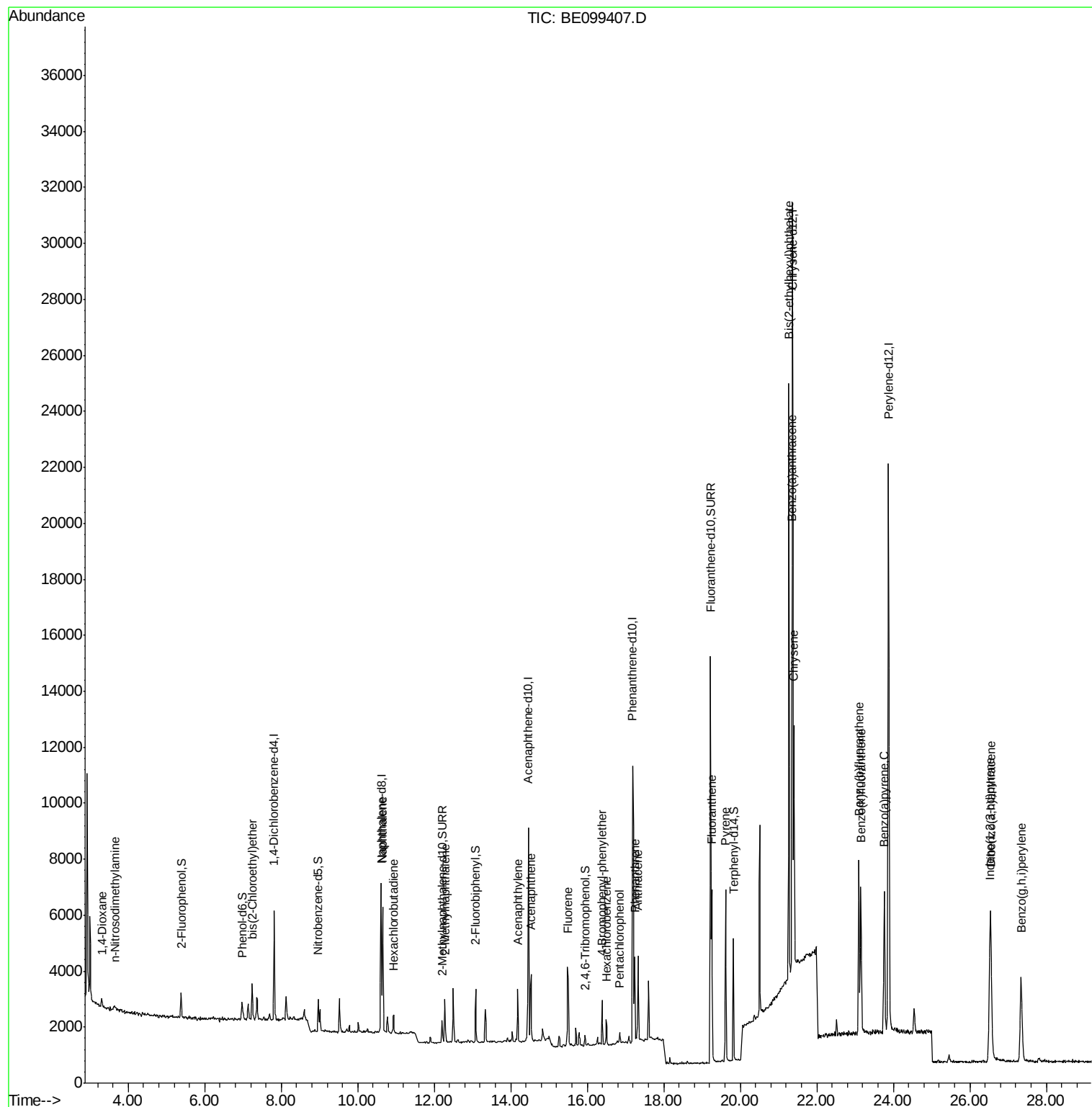
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.31  | 88  | 293   | 0.106  | ng | # 84 |
| 3) n-Nitrosodimethylamine      | 3.65  | 42  | 144   | 0.096  | ng | # 78 |
| 6) bis(2-Chloroethyl)ether     | 7.24  | 93  | 557   | 0.086  | ng | # 94 |
| 9) Naphthalene                 | 10.65 | 128 | 7328  | 0.094  | ng | # 98 |
| 10) Hexachlorobutadiene        | 10.94 | 225 | 546   | 0.111  | ng | # 94 |
| 12) 2-Methylnaphthalene        | 12.28 | 142 | 1123  | 0.085  | ng | # 89 |
| 16) Acenaphthylene             | 14.18 | 152 | 2251  | 0.103  | ng | # 96 |
| 17) Acenaphthene               | 14.53 | 154 | 1310  | 0.097  | ng | 100  |
| 18) Fluorene                   | 15.50 | 166 | 1936  | 0.100  | ng | # 97 |
| 20) 4-Bromophenyl-phenylether  | 16.39 | 248 | 805   | 0.094  | ng | # 90 |
| 21) Hexachlorobenzene          | 16.51 | 284 | 780   | 0.095  | ng | # 94 |
| 22) Pentachlorophenol          | 16.84 | 266 | 288   | 0.130  | ng | # 85 |
| 23) Phenanthrene               | 17.24 | 178 | 3758  | 0.092  | ng | # 98 |
| 24) Anthracene                 | 17.32 | 178 | 3358  | 0.092  | ng | # 99 |
| 26) Fluoranthene               | 19.25 | 202 | 5542  | 0.101  | ng | # 99 |
| 28) Pyrene                     | 19.61 | 202 | 5959  | 0.075  | ng | # 99 |
| 30) Benzo(a)anthracene         | 21.35 | 228 | 8140  | 0.103  | ng | # 98 |
| 31) Chrysene                   | 21.40 | 228 | 7771  | 0.093  | ng | # 97 |
| 32) Bis(2-ethylhexyl)phthalate | 21.27 | 149 | 23531 | 0.328  | ng | # 99 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.52 | 276 | 9286  | 0.112  | ng | # 94 |
| 35) Benzo(b)fluoranthene       | 23.10 | 252 | 8271  | 0.088  | ng | # 78 |
| 36) Benzo(k)fluoranthene       | 23.15 | 252 | 7675  | 0.082  | ng | # 87 |
| 37) Benzo(a)pyrene             | 23.76 | 252 | 7701  | 0.092  | ng | # 73 |
| 38) Dibenzo(a,h)anthracene     | 26.55 | 278 | 7539  | 0.088  | ng | # 86 |
| 39) Benzo(g,h,i)perylene       | 27.34 | 276 | 7822  | 0.090  | ng | # 93 |

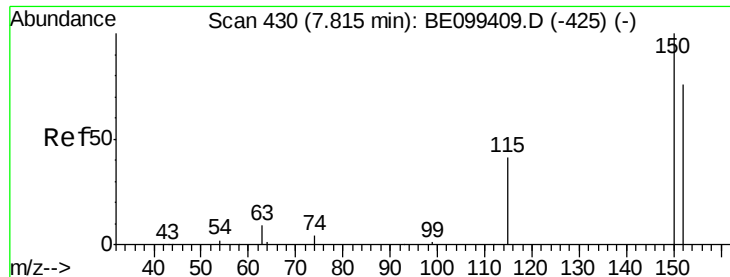
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Apr 29 16:46:21 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.82 min Scan# 430

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

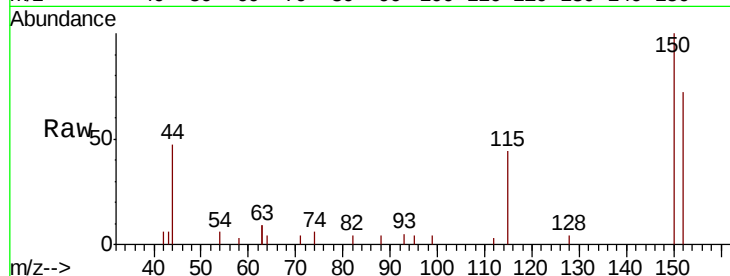
Tot Ion:152 Resp: 1982

Ion Ratio Lower Upper

152 100

150 137.9 104.8 157.2

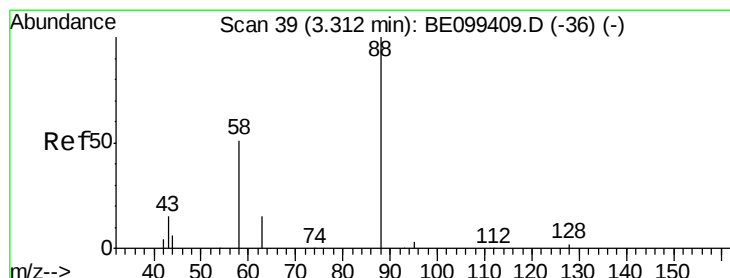
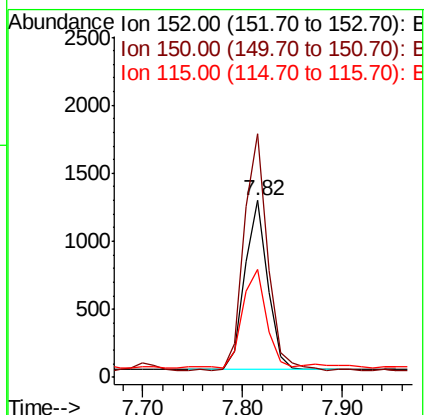
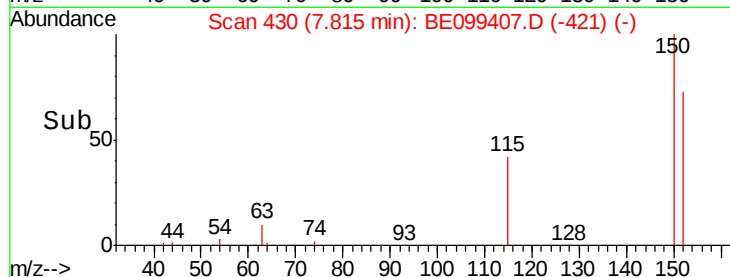
115 61.4 46.6 69.8



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: 0.106 ng

RT: 3.31 min Scan# 39

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

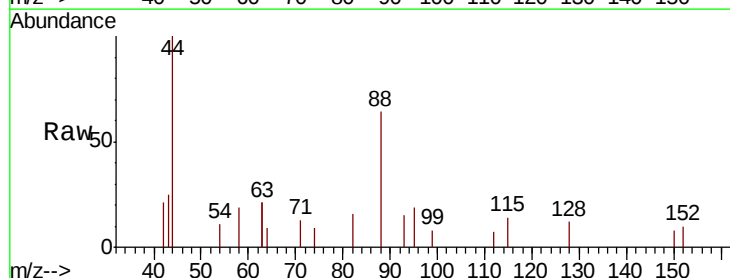
Tgt Ion: 88 Resp: 293

Ion Ratio Lower Upper

88 100

58 58.4 51.0 76.6

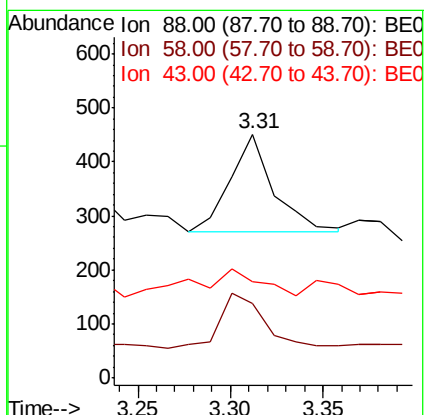
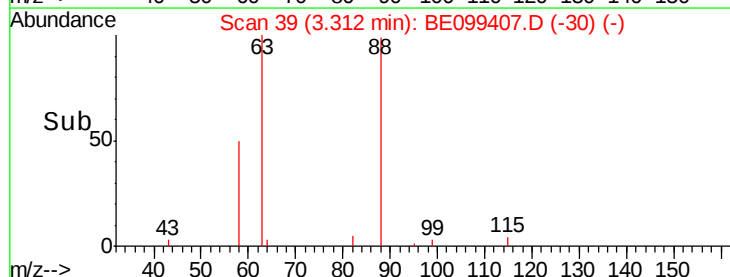
43 44.7 20.6 30.8#

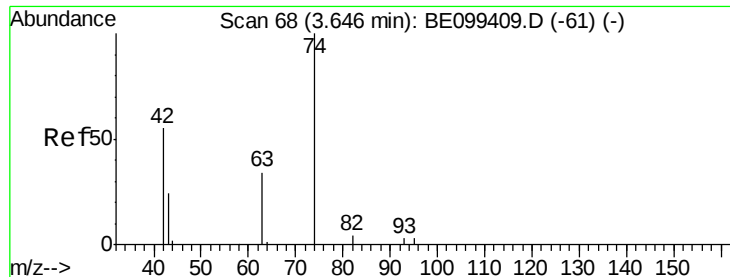


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



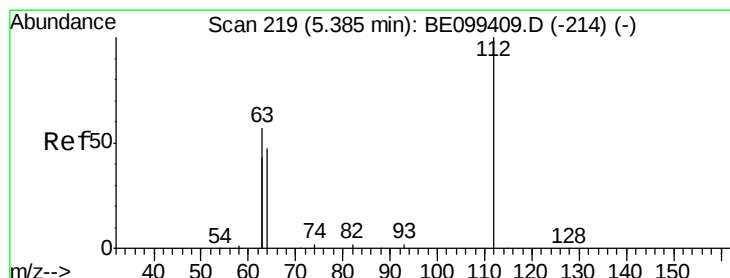
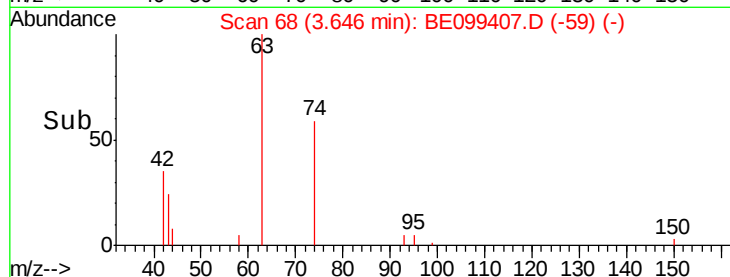
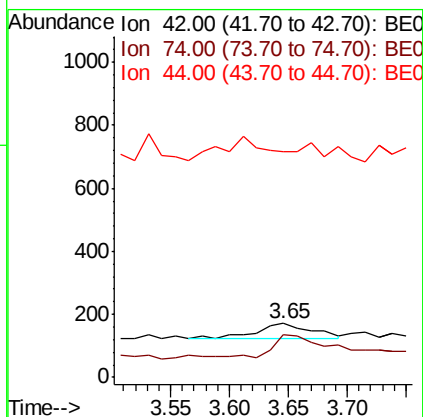
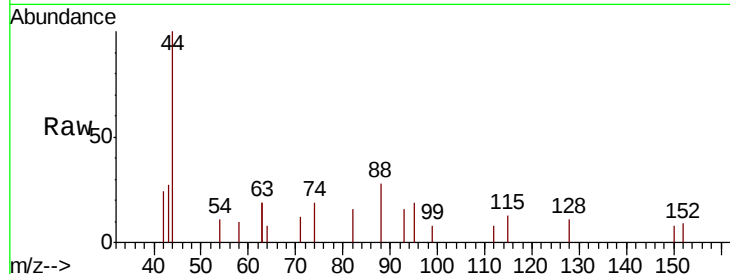


#3

n-Nitrosodimethylamine  
 Concen: 0.096 ng  
 RT: 3.65 min Scan# 68  
 Delta R.T. -0.00 min  
 Lab File: BE099407.D  
 Acq: 29 Apr 2019 14:19

Instrument :  
 BNA\_E  
 ClientSampleId :

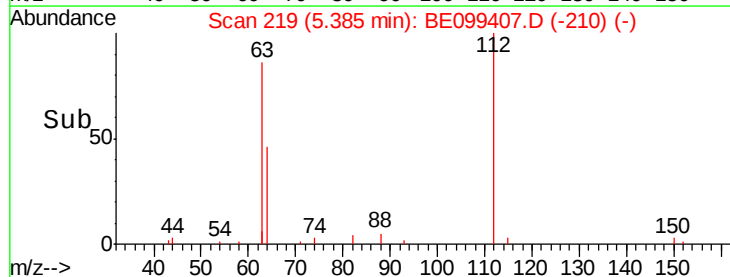
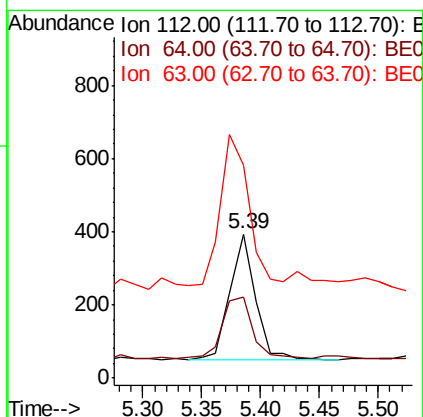
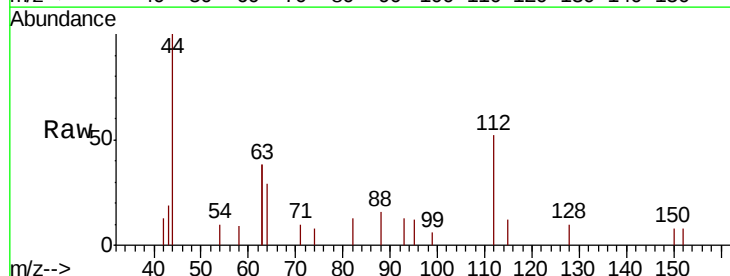
| Tot Ion   | 42    | Resp  | 144   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 146.5 | 141.6 | 212.4 |
| 44        | 0.0   | 0.0   | 0.0   |

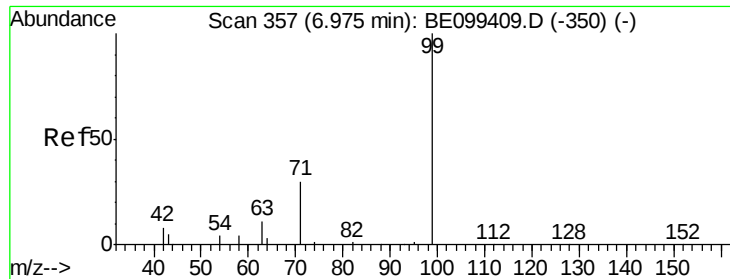


#4

2-Fluorophenol  
 Concen: 0.108 ng  
 RT: 5.39 min Scan# 219  
 Delta R.T. -0.00 min  
 Lab File: BE099407.D  
 Acq: 29 Apr 2019 14:19

| Tgt Ion   | 112   | Resp  | 524   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 58.4  | 47.4  | 71.0  |
| 63        | 131.5 | 104.3 | 156.5 |





#5

Phenol-d6

Concen: 0.086 ng

RT: 6.97 min Scan# 357

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampled :

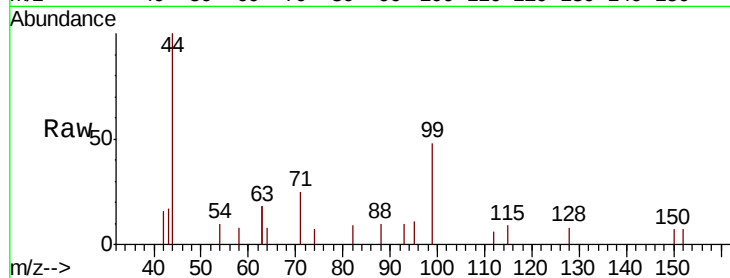
Tot Ion: 99 Resp: 594

Ion Ratio Lower Upper

99 100

42 20.9 14.9 22.3

71 44.9 33.0 49.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

6.97

400

300

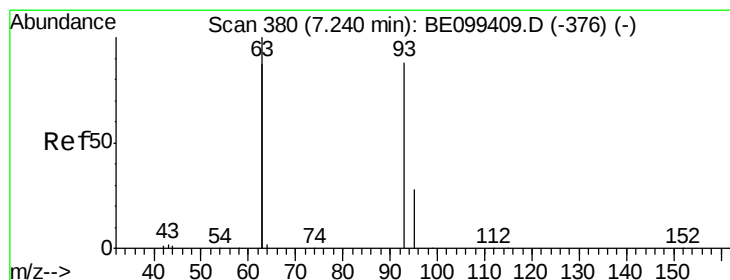
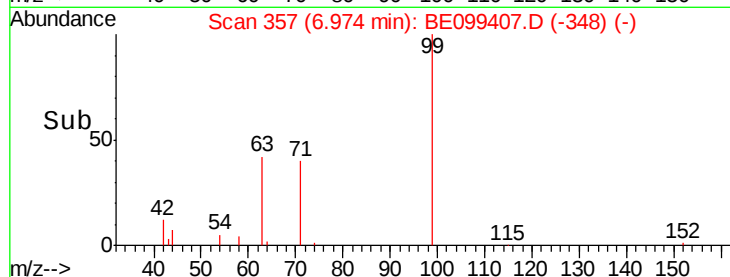
200

100

0

6.90 6.95 7.00 7.05

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.086 ng

RT: 7.24 min Scan# 380

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

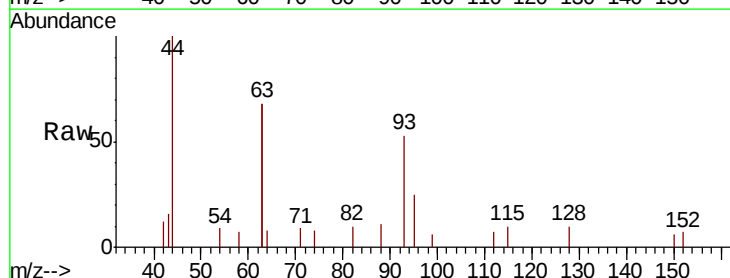
Tgt Ion: 93 Resp: 557

Ion Ratio Lower Upper

93 100

63 263.6 215.6 323.4

95 46.7 26.2 39.2#



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

7.24

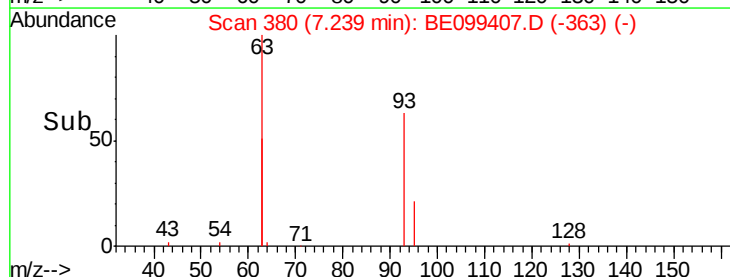
1000

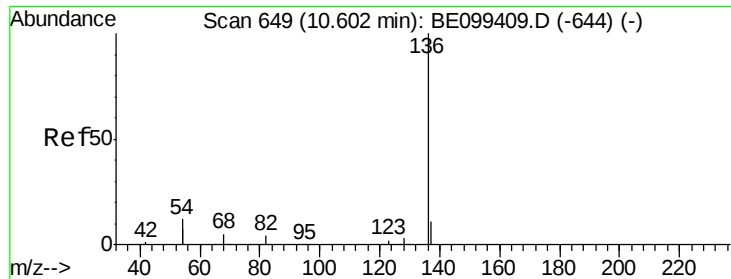
500

0

7.20 7.25 7.30

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampled :

Tot Ion:136 Resp: 7115

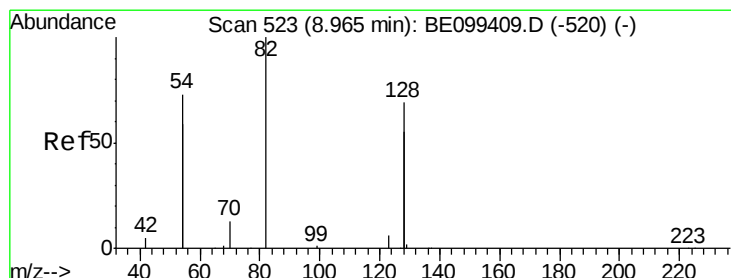
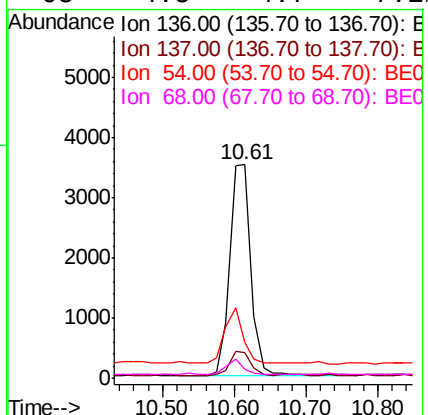
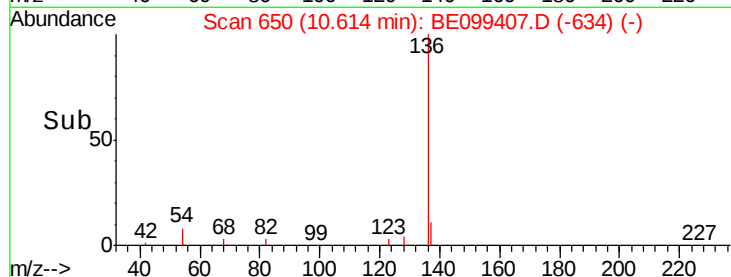
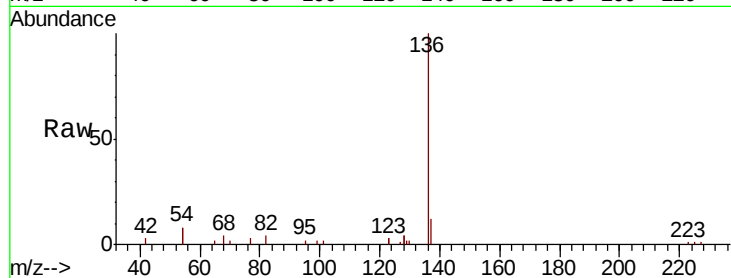
Ion Ratio Lower Upper

136 100

137 12.1 9.8 14.8

54 16.6 18.5 27.7#

68 4.5 4.7 7.1#



#8

Nitrobenzene-d5

Concen: 0.101 ng

RT: 8.96 min Scan# 523

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

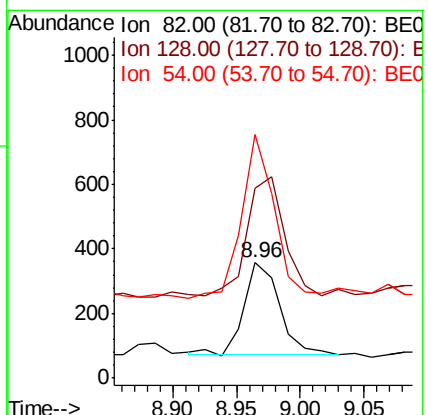
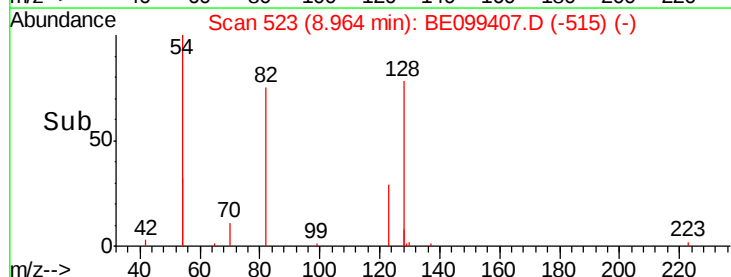
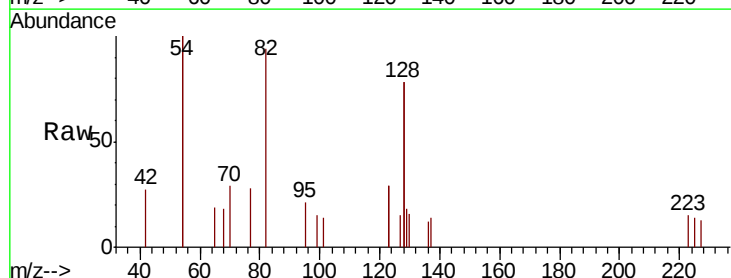
Tgt Ion: 82 Resp: 556

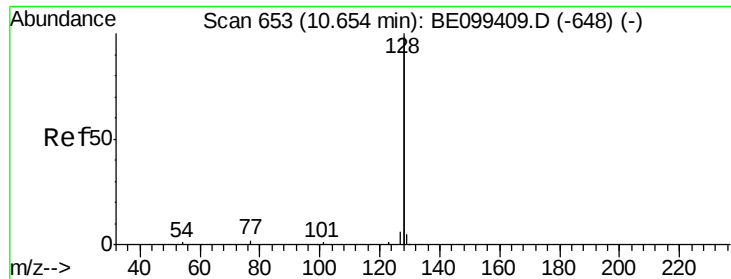
Ion Ratio Lower Upper

82 100

128 165.7 107.0 160.4#

54 211.8 113.1 169.7#





#9

Naphthalene

Concen: 0.094 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

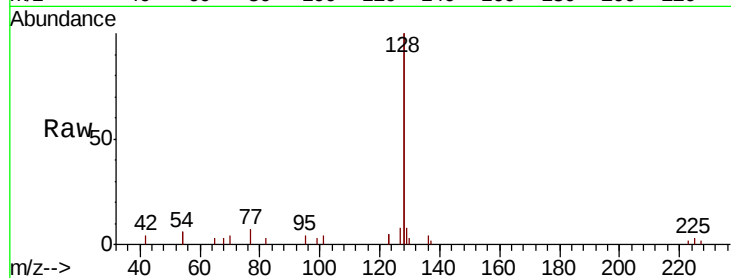
Tot Ion:128 Resp: 7328

Ion Ratio Lower Upper

128 100

129 3.9 2.4 3.6#

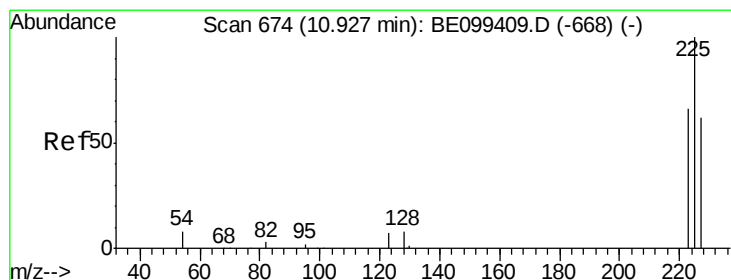
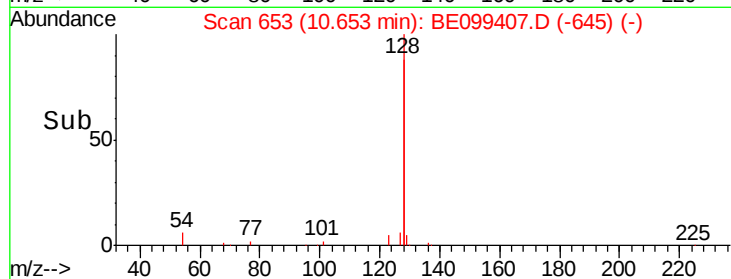
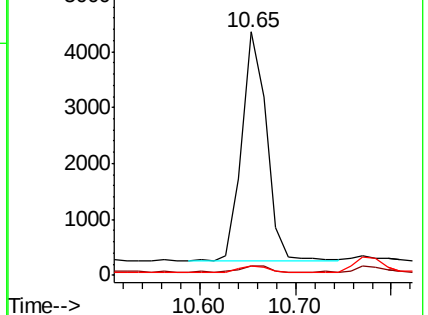
127 4.0 2.8 4.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.111 ng

RT: 10.94 min Scan# 675

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

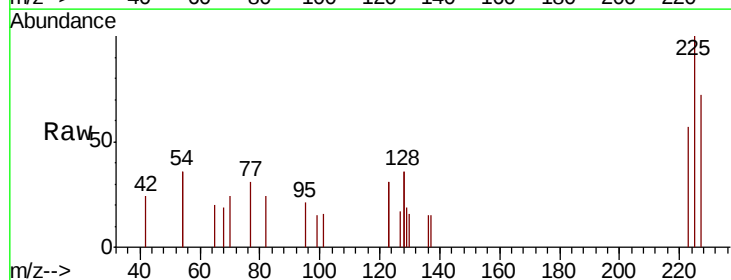
Tgt Ion:225 Resp: 546

Ion Ratio Lower Upper

225 100

223 57.7 51.0 76.6

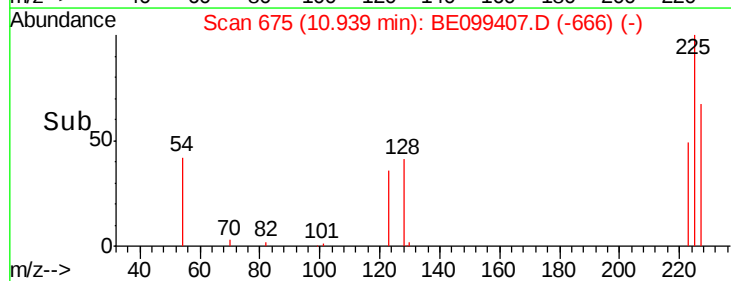
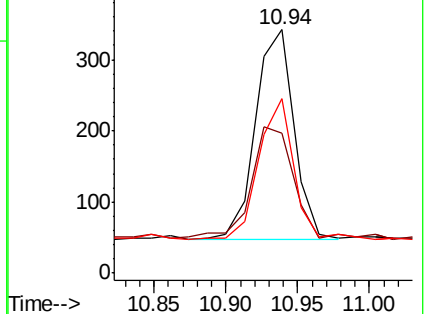
227 61.0 50.9 76.3

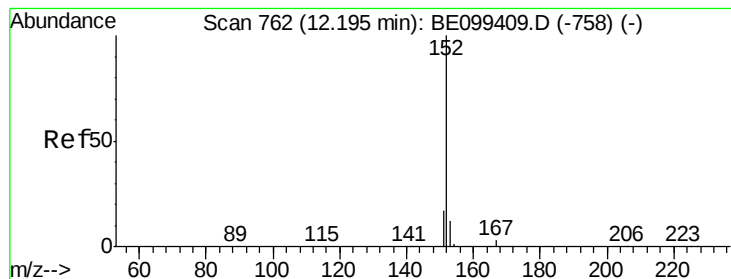


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.091 ng

RT: 12.21 min Scan# 763

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

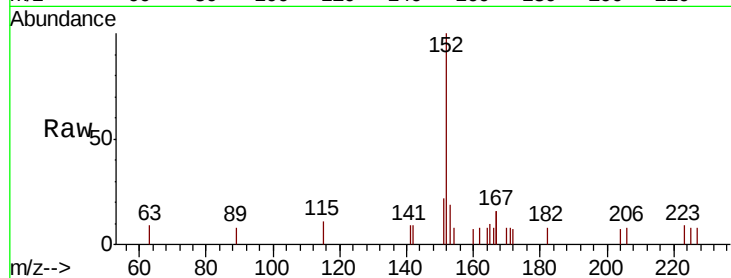
ClientSampleId :

Tot Ion:152 Resp: 1147

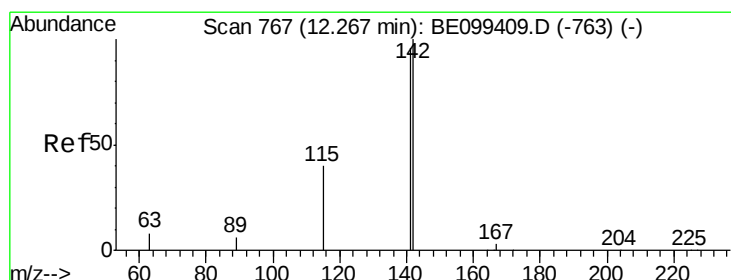
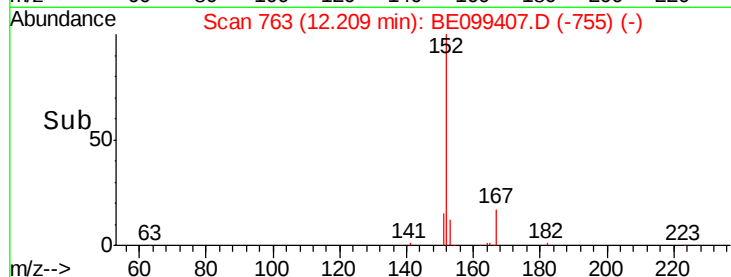
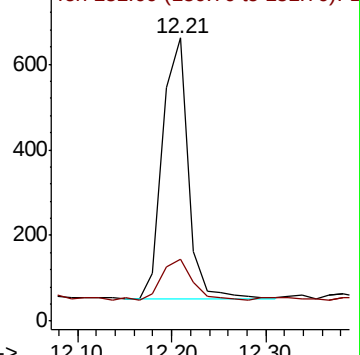
Ion Ratio Lower Upper

152 100

151 18.7 15.5 23.3



Abundance Ion 152.00 (151.70 to 152.70): E



#12

2-Methylnaphthalene

Concen: 0.085 ng

RT: 12.28 min Scan# 768

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

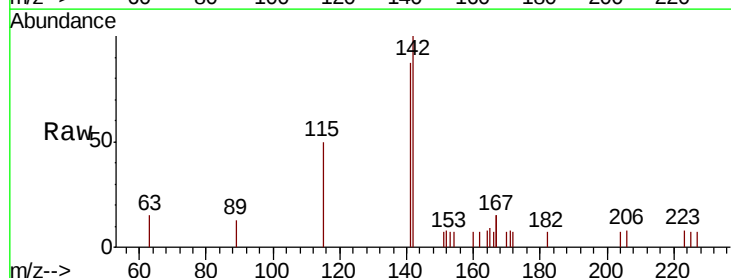
Tgt Ion:142 Resp: 1123

Ion Ratio Lower Upper

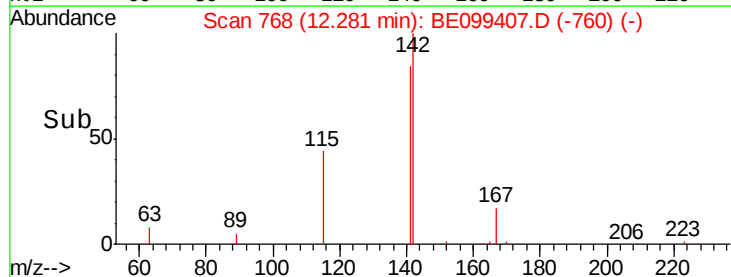
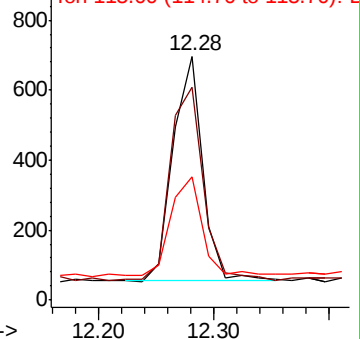
142 100

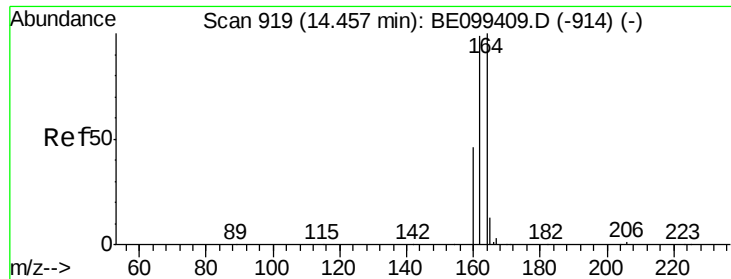
141 87.2 77.0 115.4

115 50.4 33.4 50.0#



Abundance Ion 142.00 (141.70 to 142.70): E

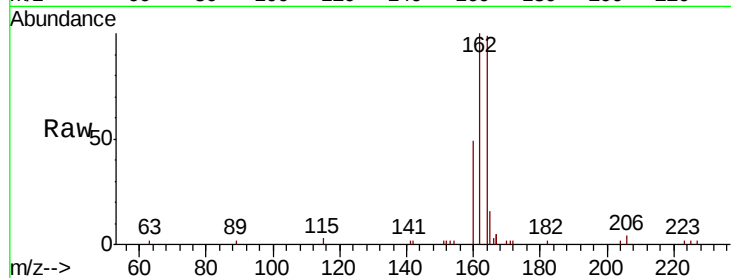




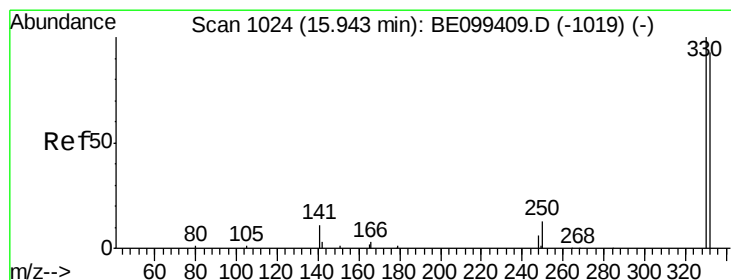
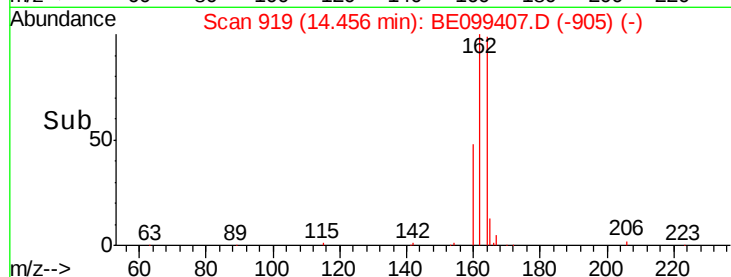
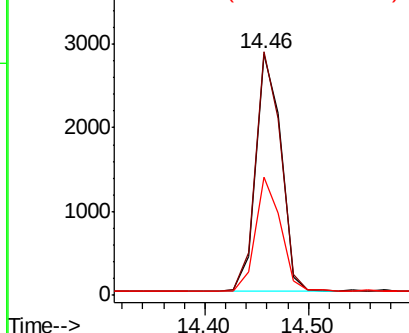
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.46 min Scan# 919  
Delta R.T. -0.00 min  
Lab File: BE099407.D  
Acq: 29 Apr 2019 14:19

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 4843  
Ion Ratio Lower Upper  
164 100  
162 100.9 79.0 118.4  
160 49.1 37.0 55.4

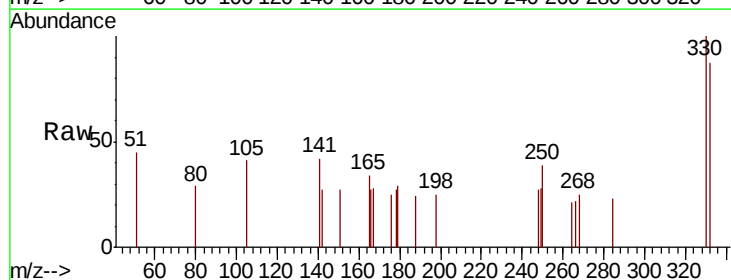


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

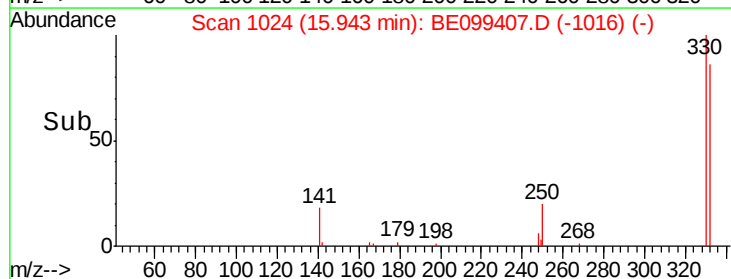
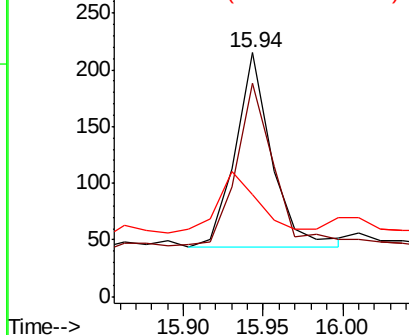


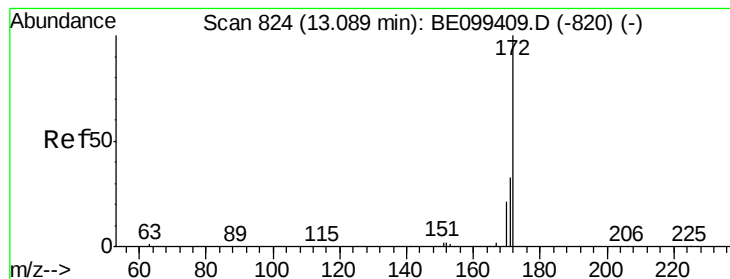
#14  
2,4,6-Tribromophenol  
Concen: 0.170 ng  
RT: 15.94 min Scan# 1024  
Delta R.T. 0.00 min  
Lab File: BE099407.D  
Acq: 29 Apr 2019 14:19

Tgt Ion:330 Resp: 274  
Ion Ratio Lower Upper  
330 100  
332 90.5 71.5 107.3  
141 34.7 24.0 36.0



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: 0.097 ng

RT: 13.09 min Scan# 824

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

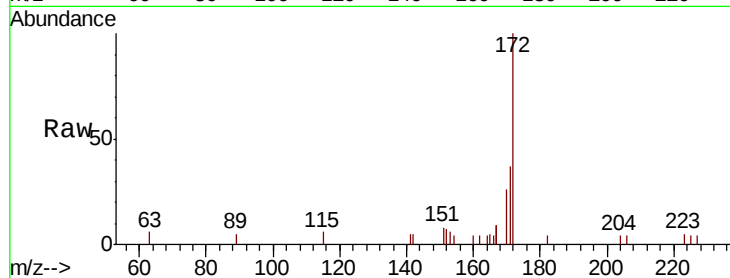
Tot Ion:172 Resp: 1843

Ion Ratio Lower Upper

172 100

171 37.1 26.6 39.8

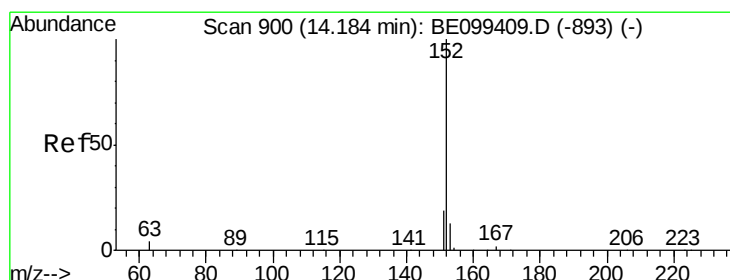
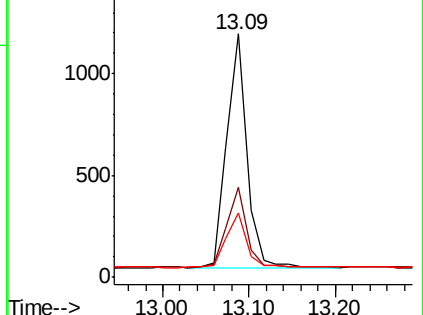
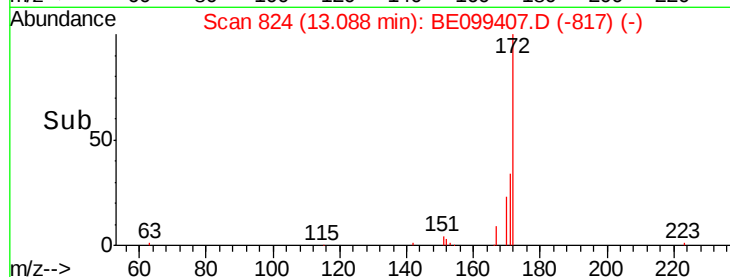
170 26.4 17.0 25.6#



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: 0.103 ng

RT: 14.18 min Scan# 900

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

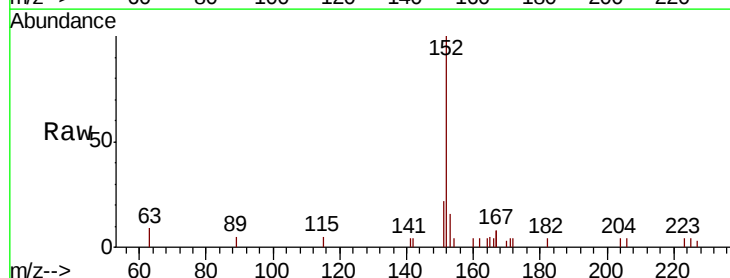
Tgt Ion:152 Resp: 2251

Ion Ratio Lower Upper

152 100

151 20.3 15.4 23.2

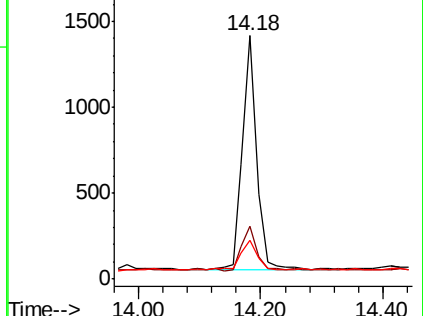
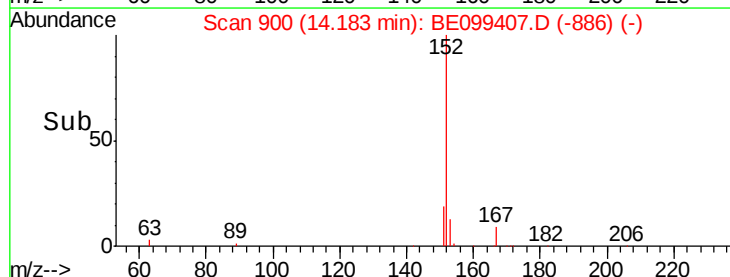
153 14.9 9.8 14.6#

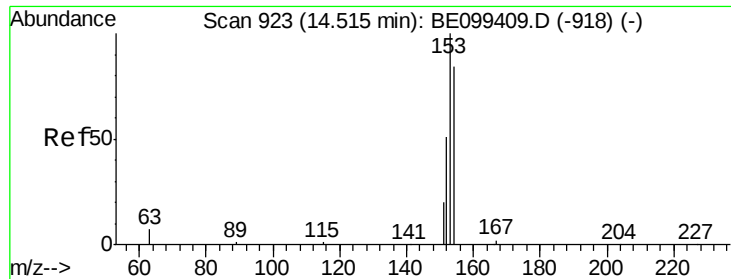


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

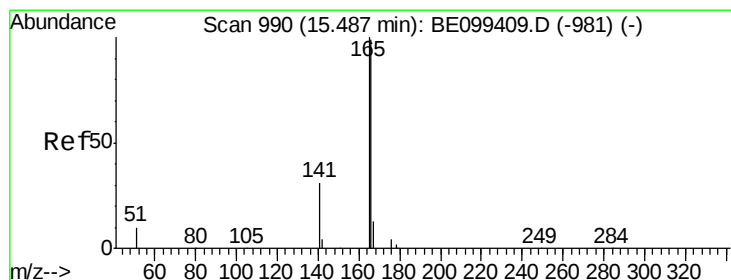
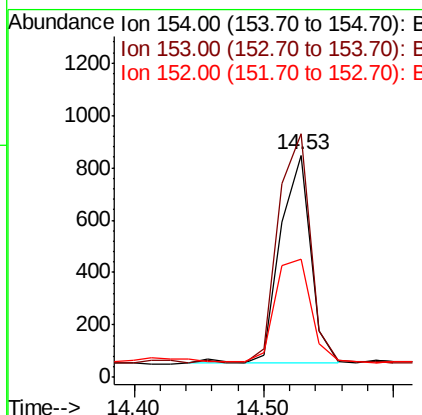
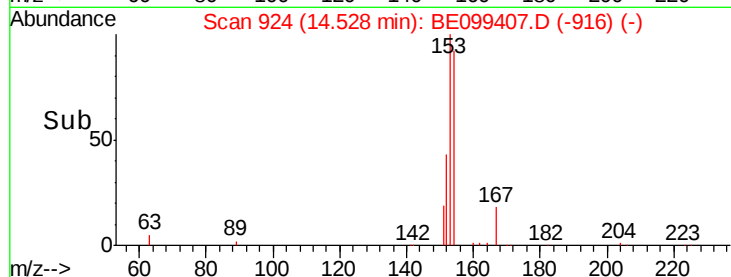
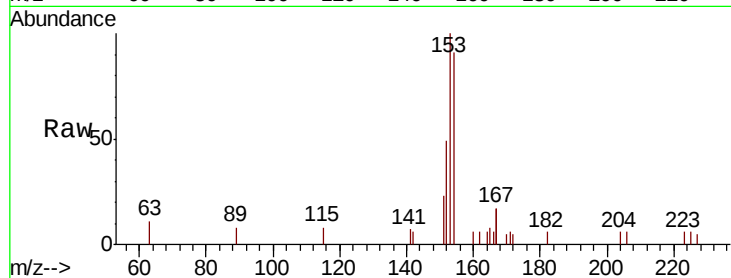




#17  
Acenaphthene  
Concen: 0.097 ng  
RT: 14.53 min Scan# 924  
Delta R.T. 0.01 min  
Lab File: BE099407.D  
Acq: 29 Apr 2019 14:19

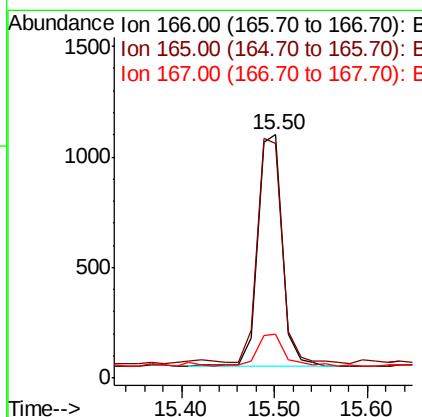
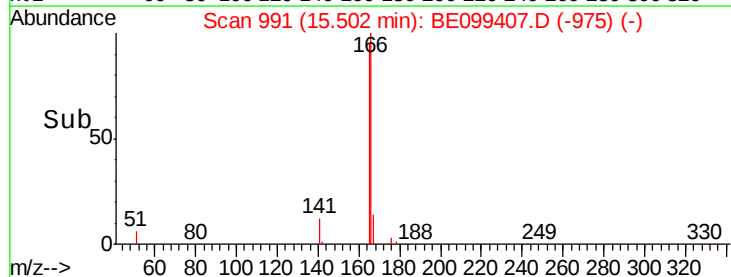
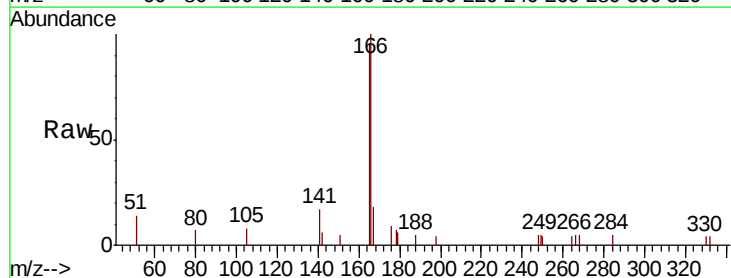
Instrument :  
BNA\_E  
ClientSampleId :

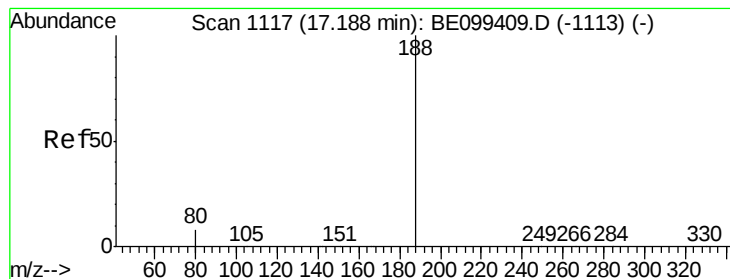
Tot Ion:154 Resp: 1310  
Ion Ratio Lower Upper  
154 100  
153 115.6 92.6 138.8  
152 58.2 45.8 68.8



#18  
Fluorene  
Concen: 0.100 ng  
RT: 15.50 min Scan# 991  
Delta R.T. 0.01 min  
Lab File: BE099407.D  
Acq: 29 Apr 2019 14:19

Tgt Ion:166 Resp: 1936  
Ion Ratio Lower Upper  
166 100  
165 98.3 80.3 120.5  
167 16.4 10.7 16.1#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.19 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

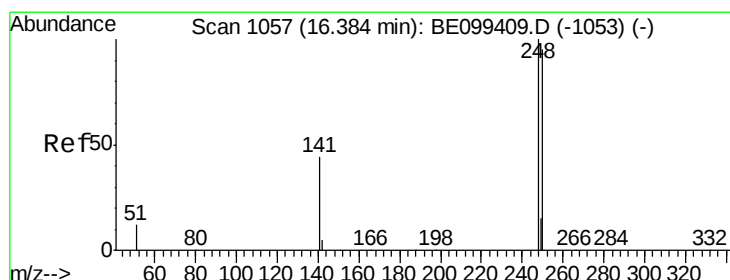
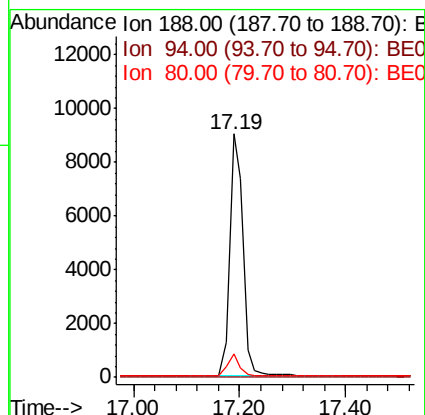
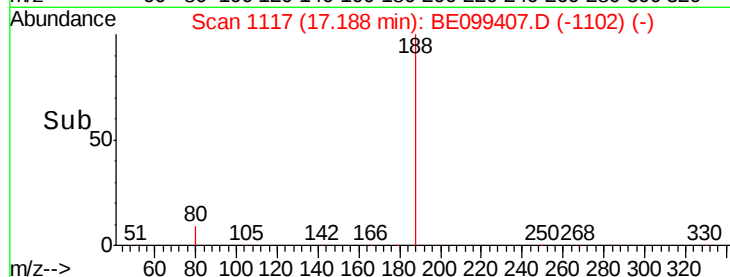
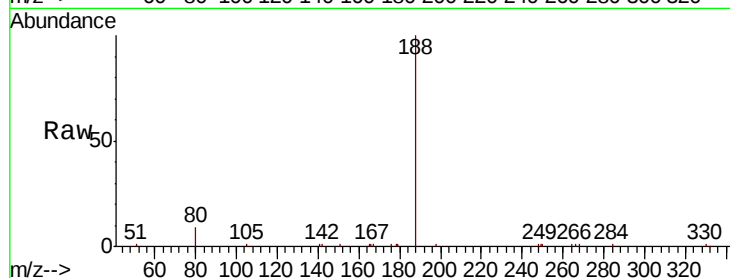
Tot Ion:188 Resp: 15488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 6.7 10.1



#20

4-Bromophenyl-phenylether

Concen: 0.094 ng

RT: 16.39 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

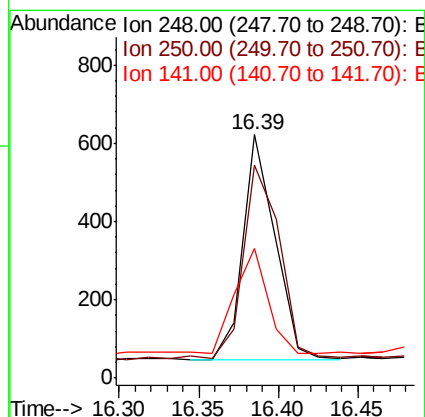
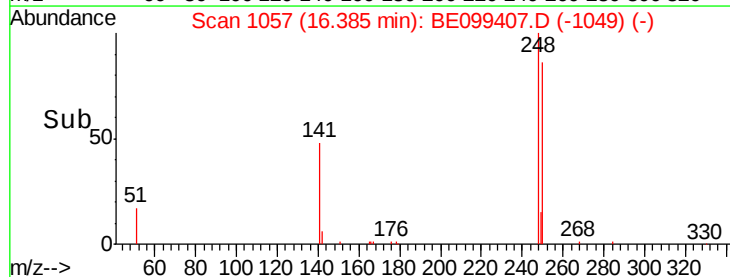
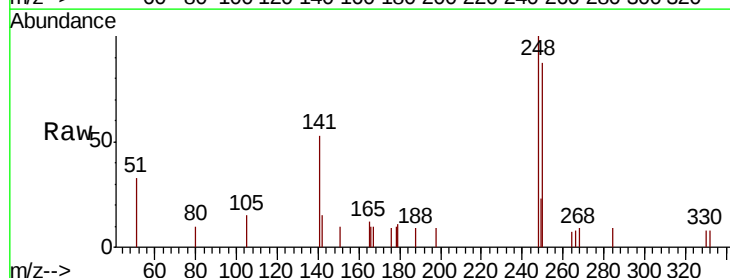
Tgt Ion:248 Resp: 805

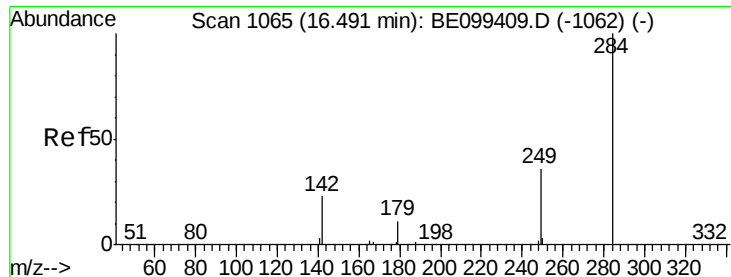
Ion Ratio Lower Upper

248 100

250 87.3 75.8 113.8

141 53.4 35.7 53.5





#21

Hexachlorobenzene

Concen: 0.095 ng

RT: 16.51 min Scan# 1066

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

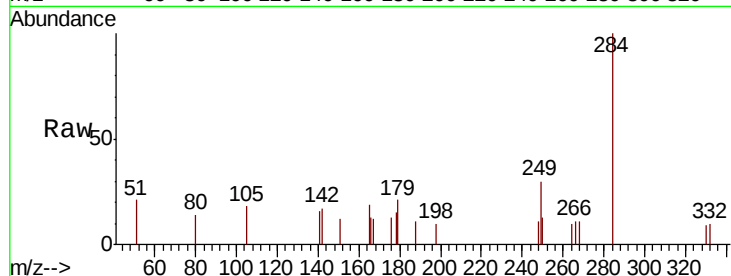
Tot Ion:284 Resp: 780

Ion Ratio Lower Upper

284 100

142 28.5 21.0 31.6

249 37.6 26.7 40.1



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

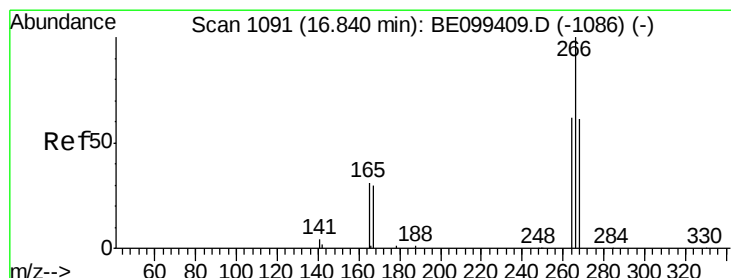
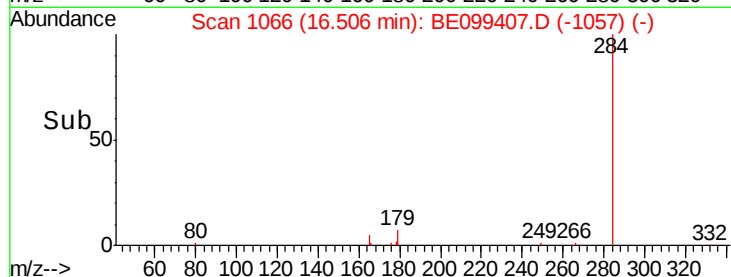
16.51

400

200

0

Time-->



#22

Pentachlorophenol

Concen: 0.130 ng

RT: 16.84 min Scan# 1091

Delta R.T. 0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

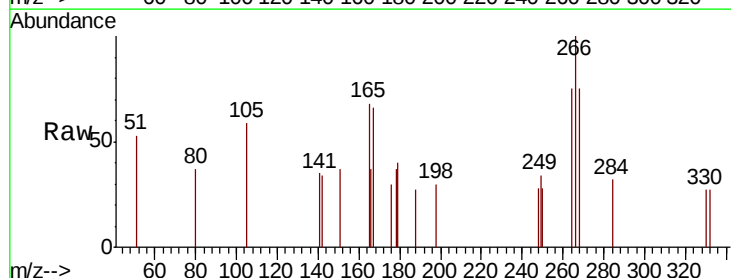
Tgt Ion:266 Resp: 288

Ion Ratio Lower Upper

266 100

264 74.9 50.8 76.2

268 75.4 50.5 75.7



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

16.84

250

200

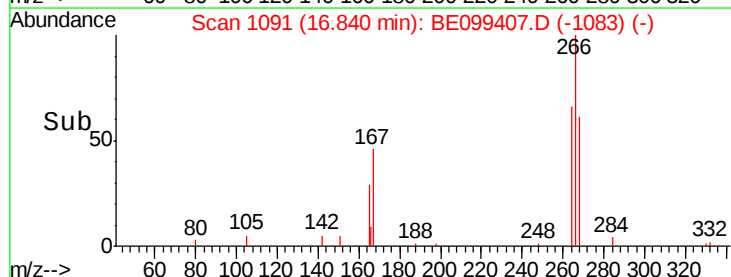
150

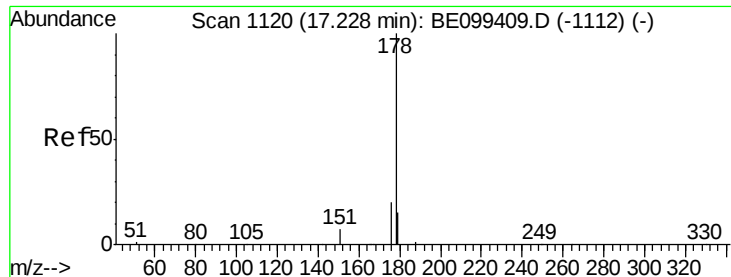
100

50

0

Time-->

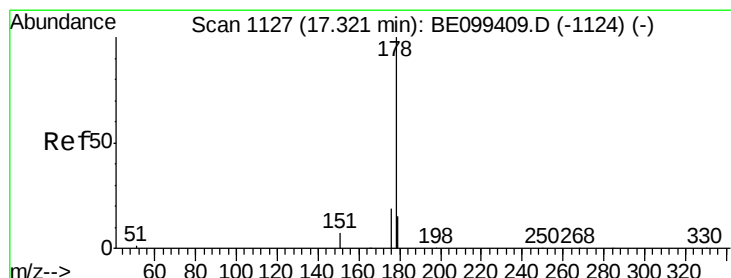
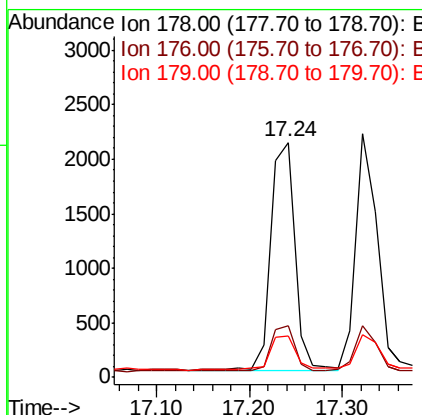
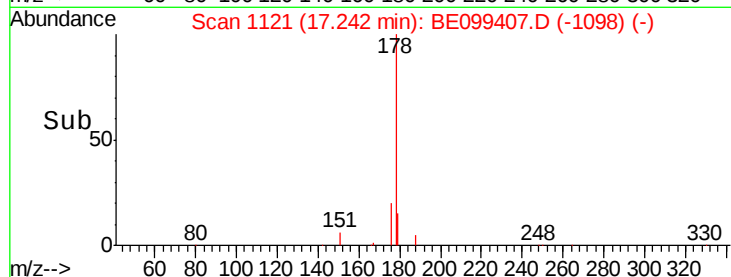
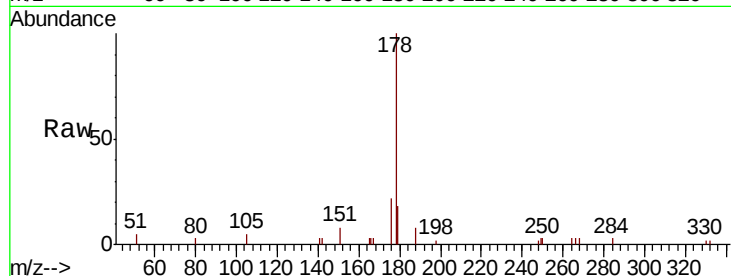




#23  
 Phenanthrene  
 Concen: 0.092 ng  
 RT: 17.24 min Scan# 1121  
 Delta R.T. 0.01 min  
 Lab File: BE099407.D  
 Acq: 29 Apr 2019 14:19

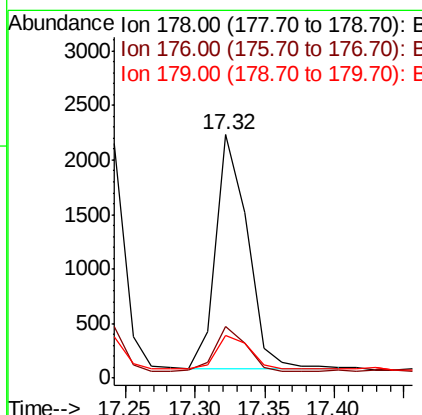
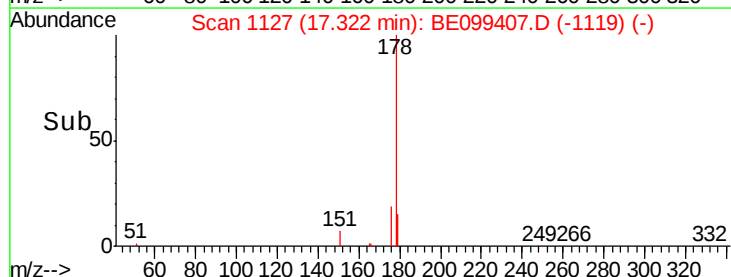
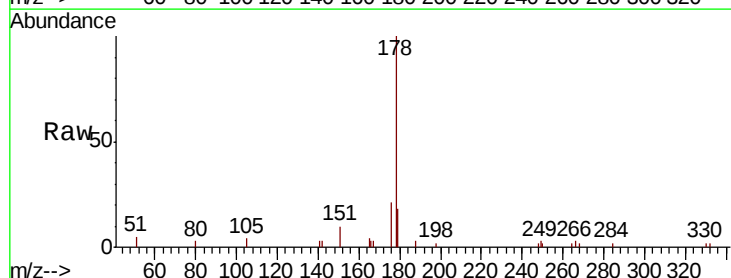
Instrument :  
 BNA\_E  
 ClientSampleId :

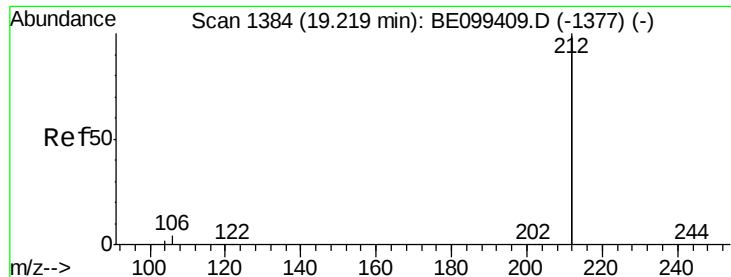
Tot Ion:178 Resp: 3758  
 Ion Ratio Lower Upper  
 178 100  
 176 19.8 15.6 23.4  
 179 17.0 12.0 18.0



#24  
 Anthracene  
 Concen: 0.092 ng  
 RT: 17.32 min Scan# 1127  
 Delta R.T. 0.00 min  
 Lab File: BE099407.D  
 Acq: 29 Apr 2019 14:19

Tgt Ion:178 Resp: 3358  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 14.9 22.3  
 179 15.5 11.9 17.9





#25

Fluoranthene-d10

Concen: 0.105 ng

RT: 19.22 min Scan# 1385

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

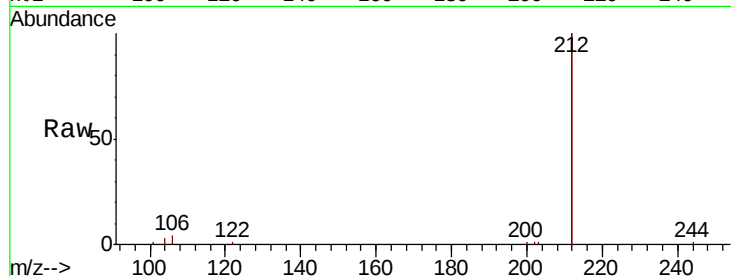
Tot Ion:212 Resp: 19593

Ion Ratio Lower Upper

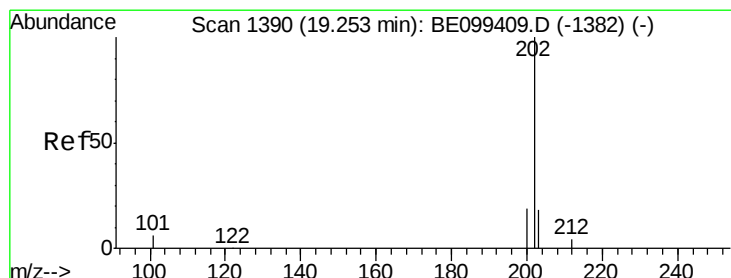
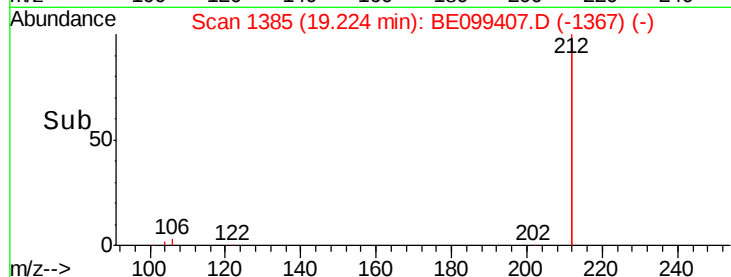
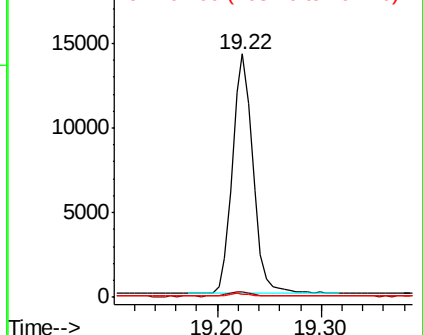
212 100

106 2.1 1.5 2.3

104 1.2 0.9 1.3



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: 0.101 ng

RT: 19.25 min Scan# 1390

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

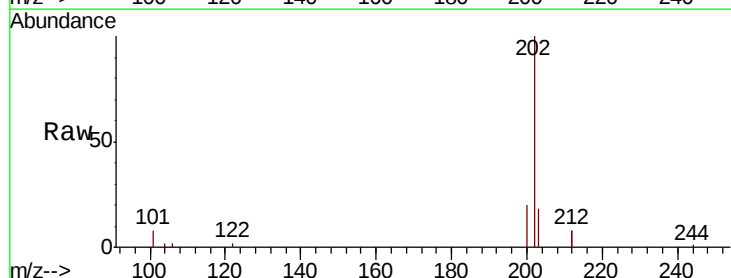
Tgt Ion:202 Resp: 5542

Ion Ratio Lower Upper

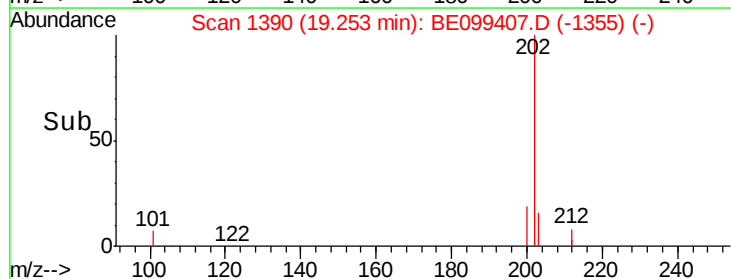
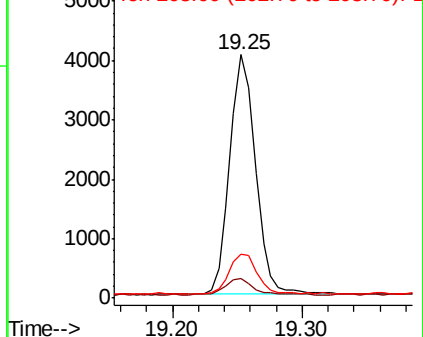
202 100

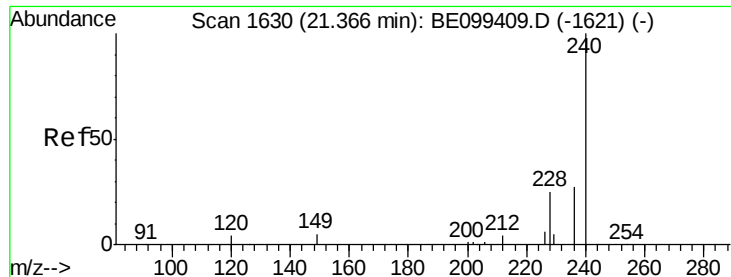
101 7.1 5.4 8.0

203 17.6 13.9 20.9



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: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

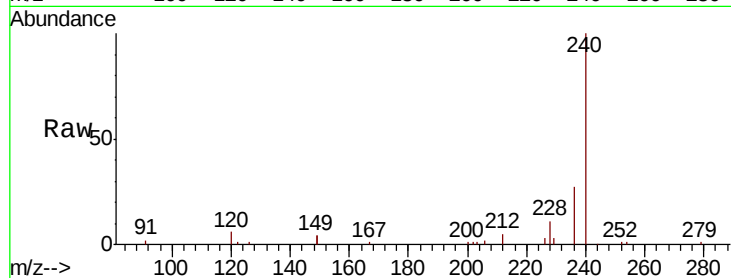
Tot Ion:240 Resp: 26832

Ion Ratio Lower Upper

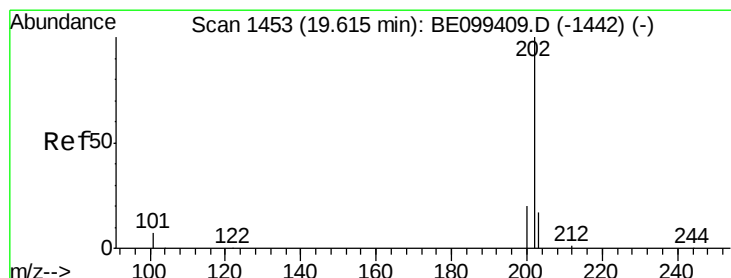
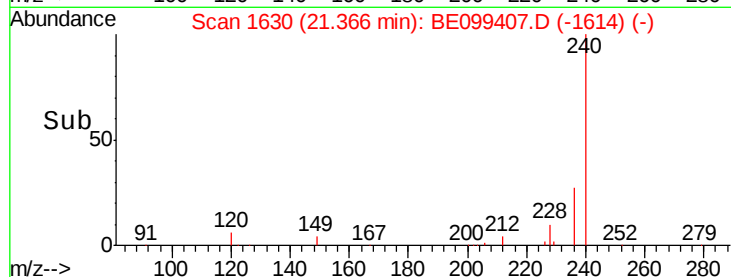
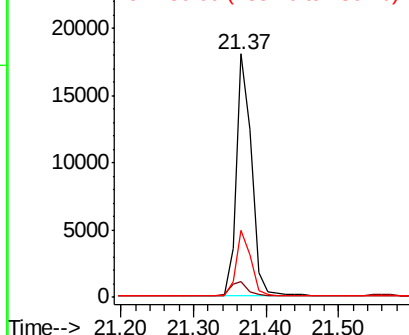
240 100

120 6.3 4.0 6.0#

236 27.5 22.0 33.0



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.075 ng

RT: 19.61 min Scan# 1453

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

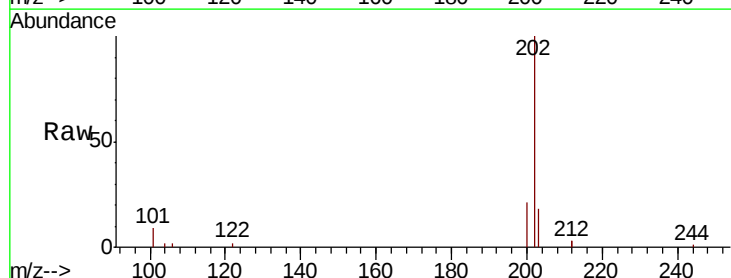
Tgt Ion:202 Resp: 5959

Ion Ratio Lower Upper

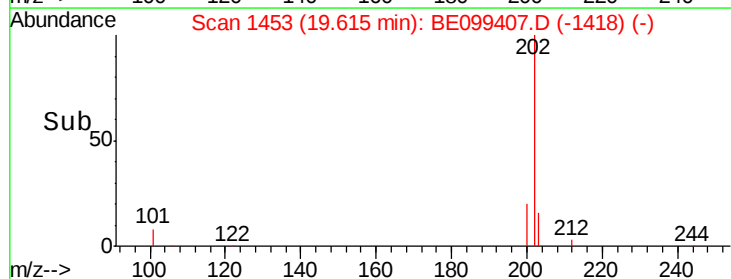
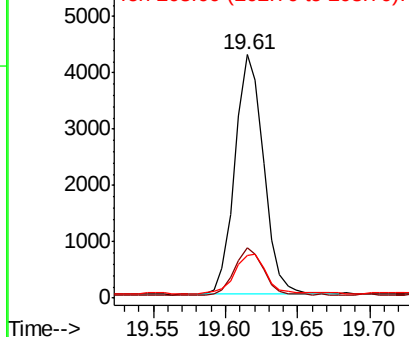
202 100

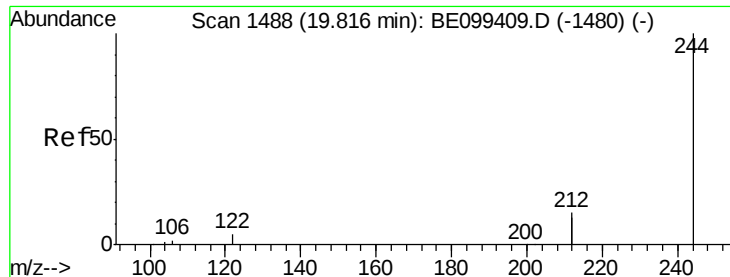
200 19.8 15.7 23.5

203 18.0 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.082 ng

RT: 19.82 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

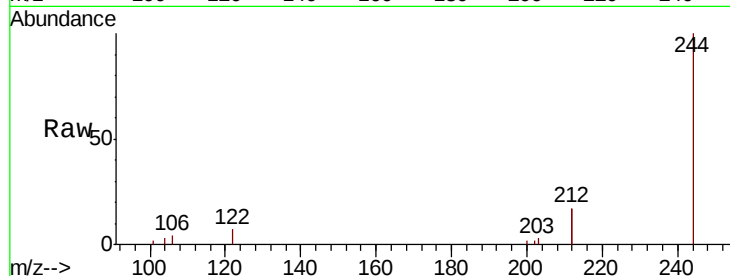
Tot Ion:244 Resp: 4312

Ion Ratio Lower Upper

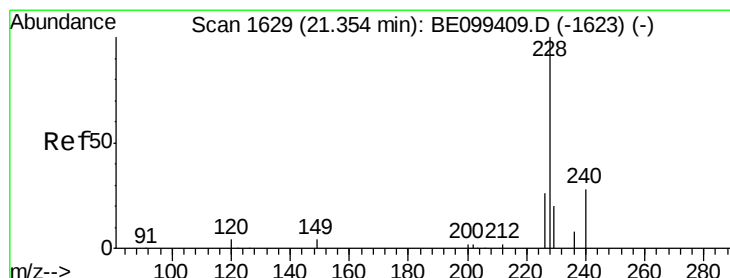
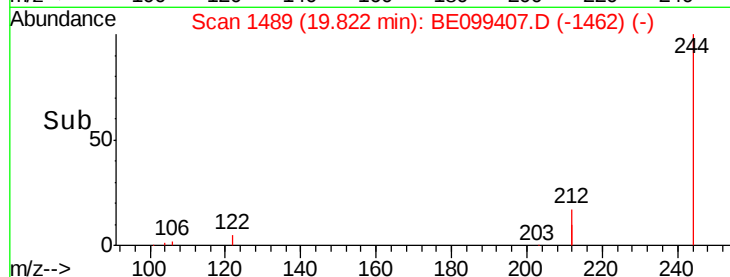
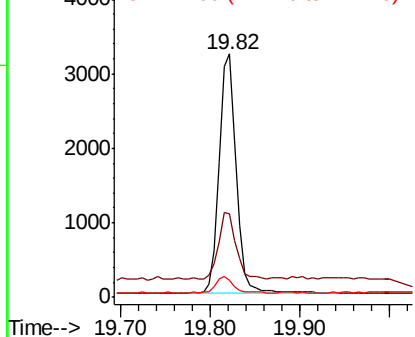
244 100

212 34.4 23.2 34.8

122 7.1 4.2 6.4#



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: 0.103 ng

RT: 21.35 min Scan# 1629

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

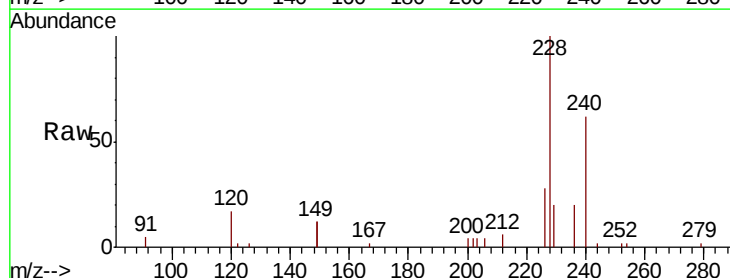
Tgt Ion:228 Resp: 8140

Ion Ratio Lower Upper

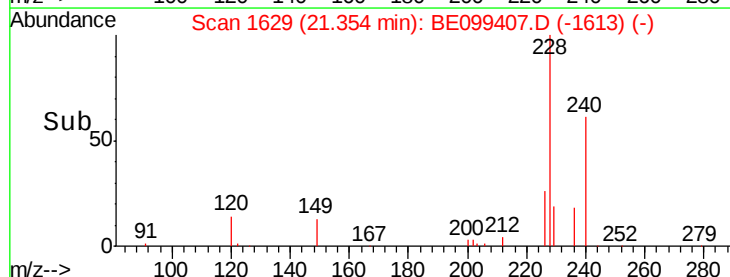
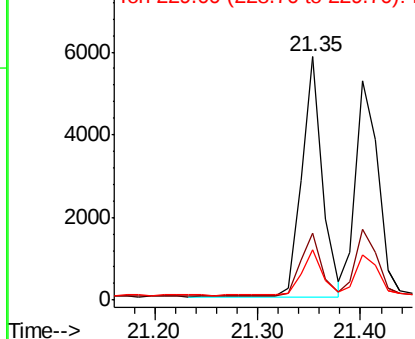
228 100

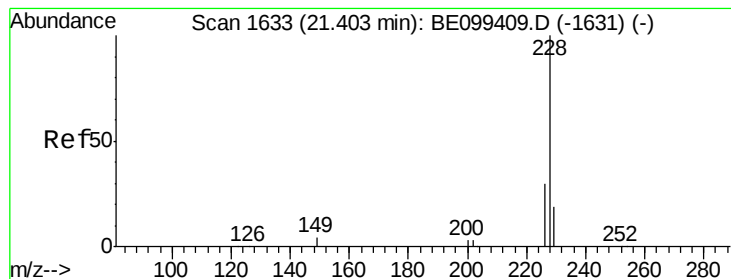
226 27.7 21.0 31.6

229 20.5 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.093 ng

RT: 21.40 min Scan# 1633

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

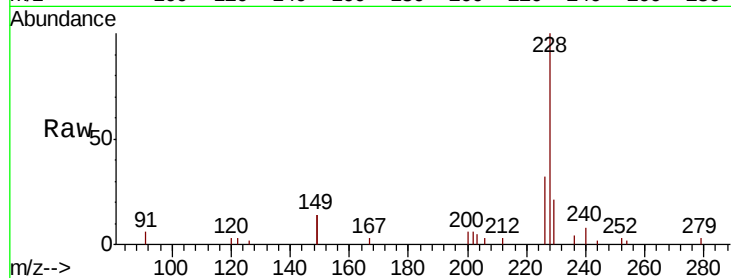
Tot Ion:228 Resp: 7771

Ion Ratio Lower Upper

228 100

226 32.3 24.0 36.0

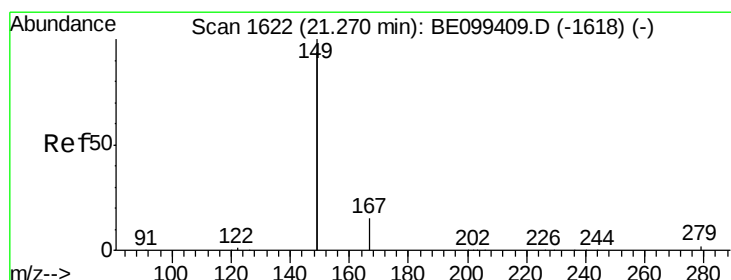
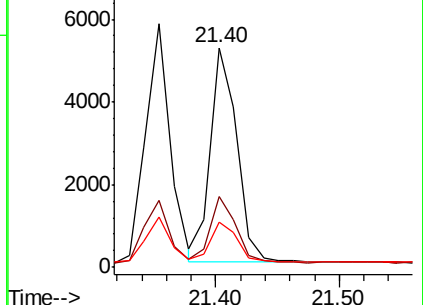
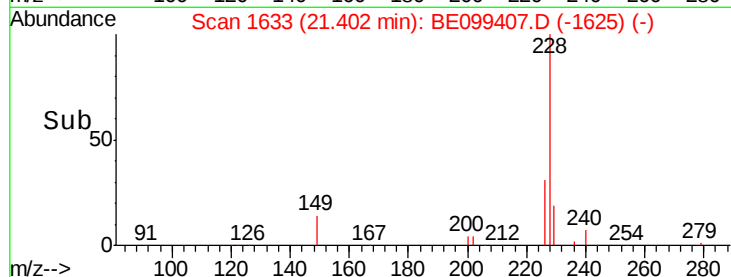
229 20.6 15.8 23.8



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: 0.328 ng

RT: 21.27 min Scan# 1622

Delta R.T. -0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

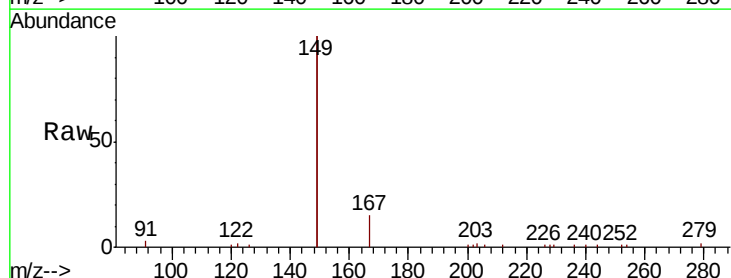
Tgt Ion:149 Resp: 23531

Ion Ratio Lower Upper

149 100

167 7.7 5.8 8.6

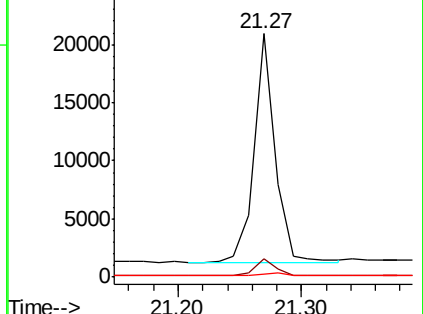
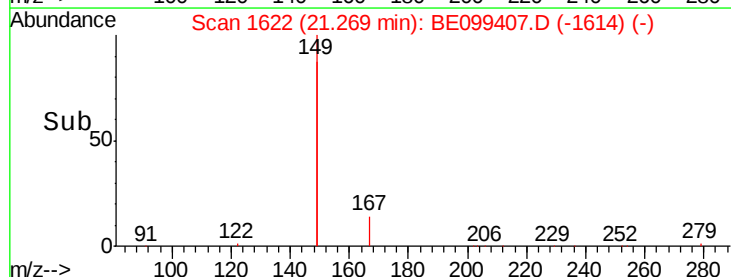
279 1.7 1.0 1.6#

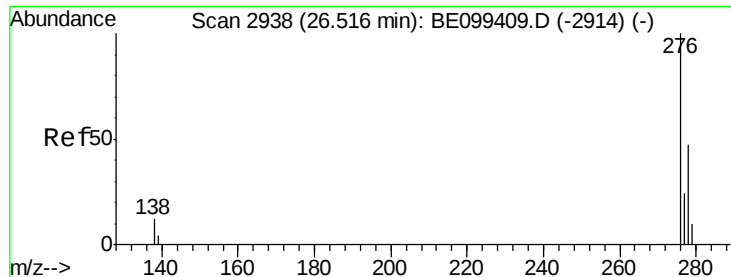


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

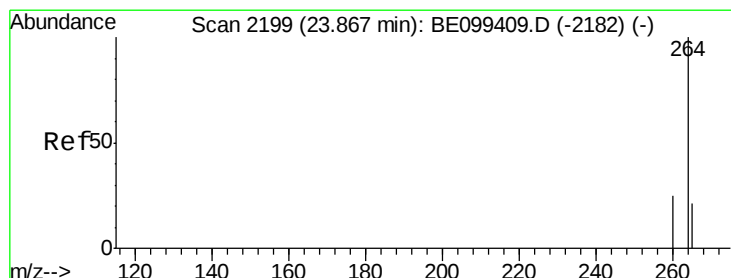
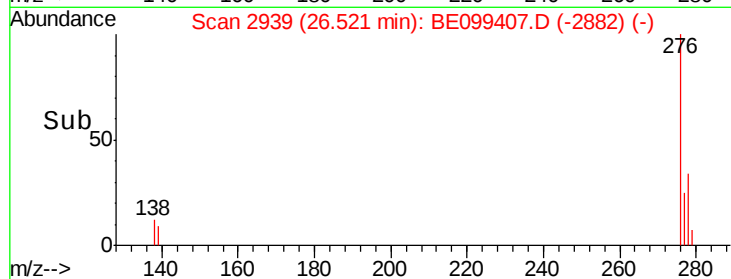
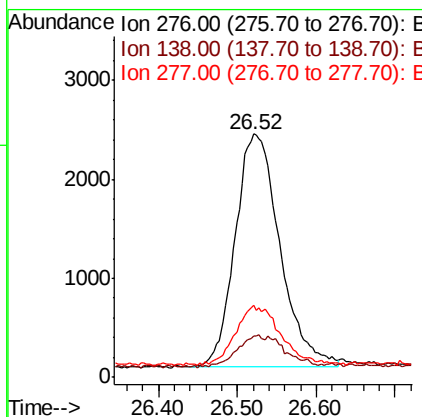
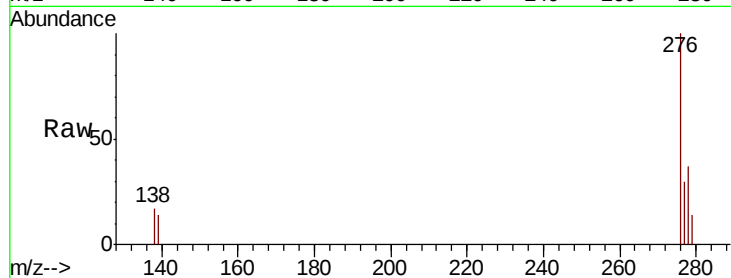




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.112 ng  
 RT: 26.52 min Scan# 2939  
 Delta R.T. 0.00 min  
 Lab File: BE099407.D  
 Acq: 29 Apr 2019 14:19

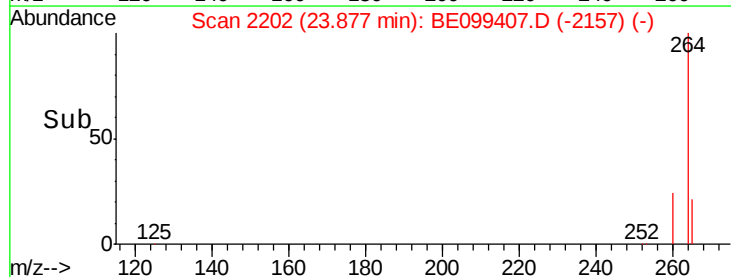
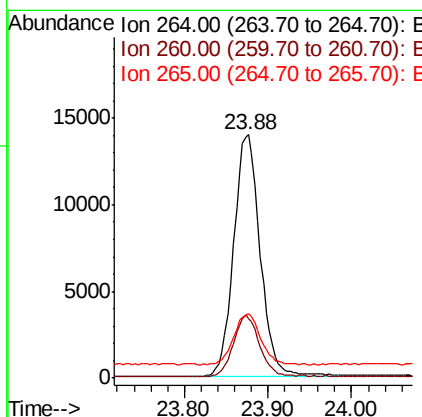
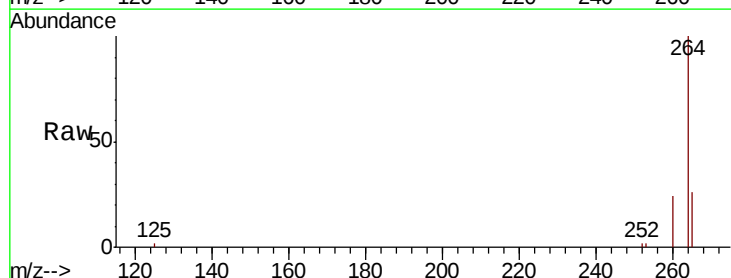
Instrument :  
 BNA\_E  
 ClientSampleId :

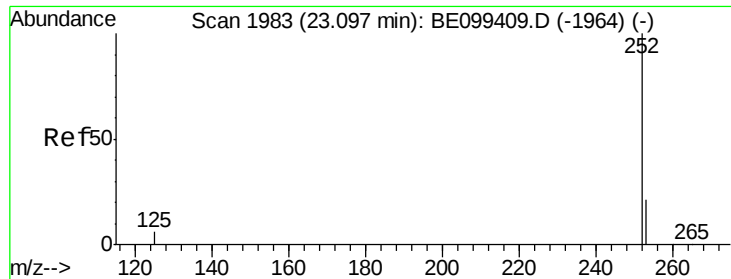
Tot Ion:276 Resp: 9286  
 Ion Ratio Lower Upper  
 276 100  
 138 7.9 10.2 15.2#  
 277 25.4 19.2 28.8



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.88 min Scan# 2202  
 Delta R.T. 0.01 min  
 Lab File: BE099407.D  
 Acq: 29 Apr 2019 14:19

Tgt Ion:264 Resp: 30577  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 20.2 30.2  
 265 26.3 21.3 31.9





#35

Benzo(b)fluoranthene

Concen: 0.088 ng

RT: 23.10 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

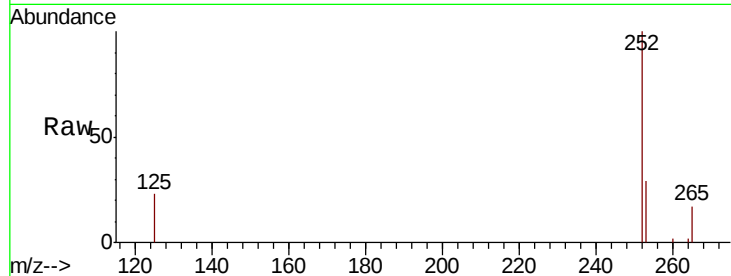
Tot Ion:252 Resp: 8271

Ion Ratio Lower Upper

252 100

253 29.5 18.1 27.1#

125 22.5 5.6 8.4#

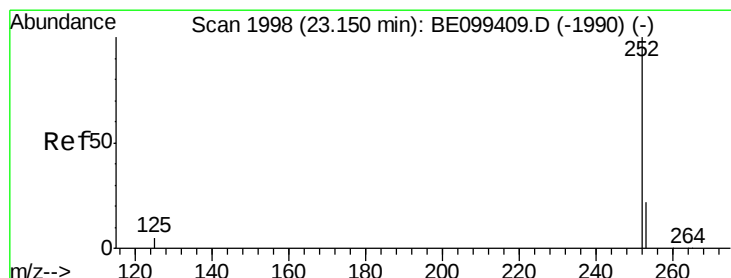
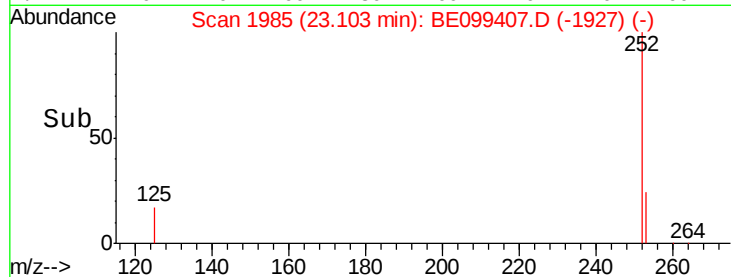
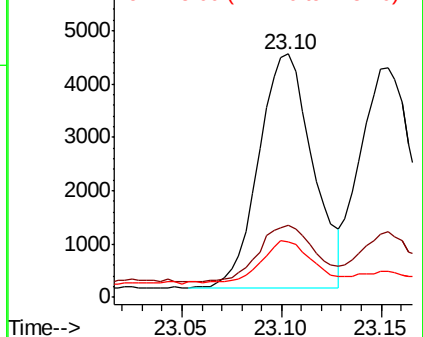


Abundance

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: 0.082 ng

RT: 23.15 min Scan# 1999

Delta R.T. 0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

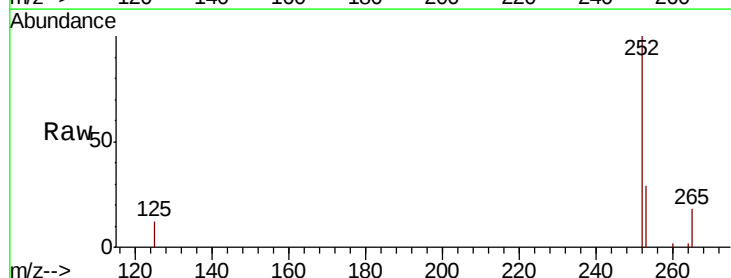
Tgt Ion:252 Resp: 7675

Ion Ratio Lower Upper

252 100

253 28.7 18.4 27.6#

125 11.6 5.0 7.4#

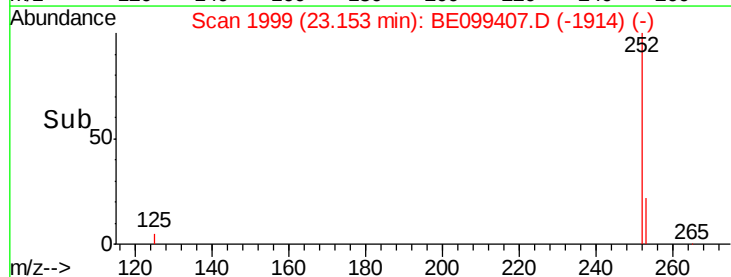
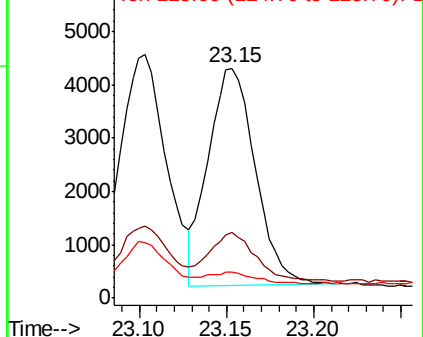


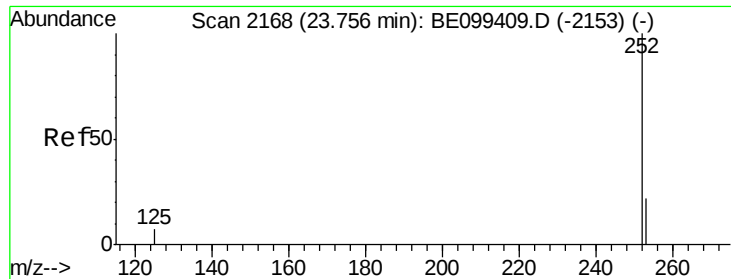
Abundance

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





#37

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.76 min Scan# 2170

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

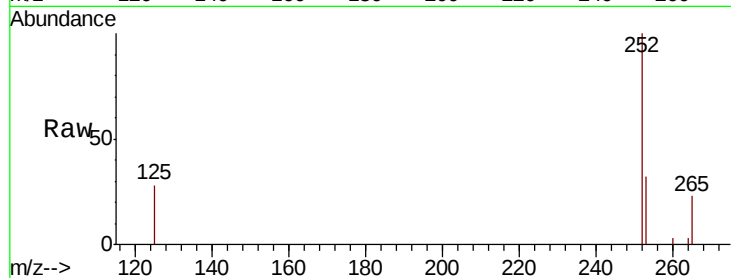
Tot Ion:252 Resp: 7701

Ion Ratio Lower Upper

252 100

253 32.2 18.9 28.3#

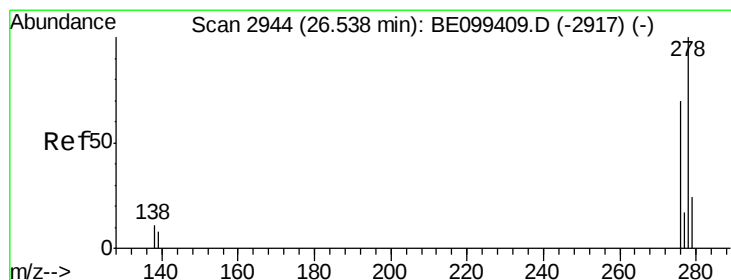
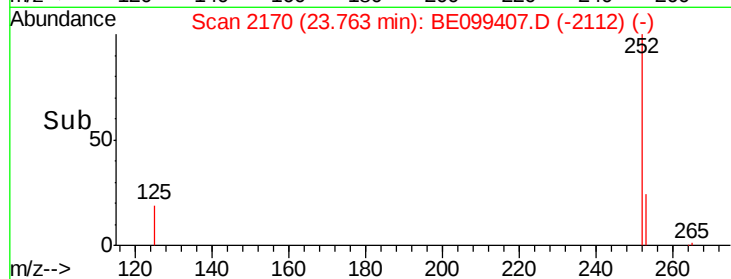
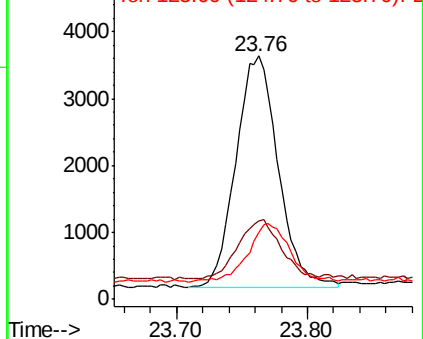
125 27.6 6.7 10.1#



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: 0.088 ng

RT: 26.55 min Scan# 2947

Delta R.T. 0.01 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

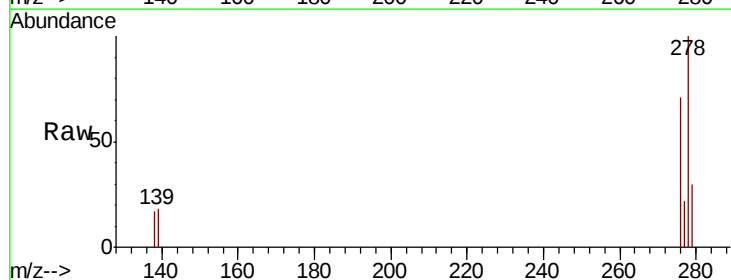
Tgt Ion:278 Resp: 7539

Ion Ratio Lower Upper

278 100

139 18.5 7.7 11.5#

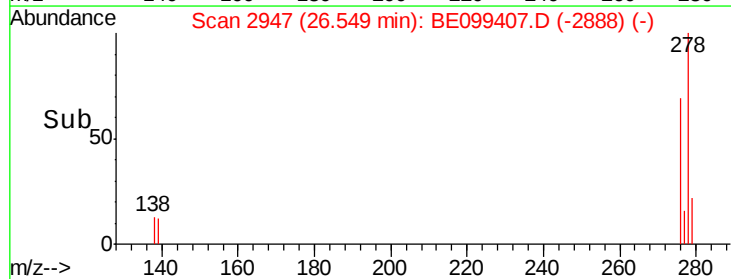
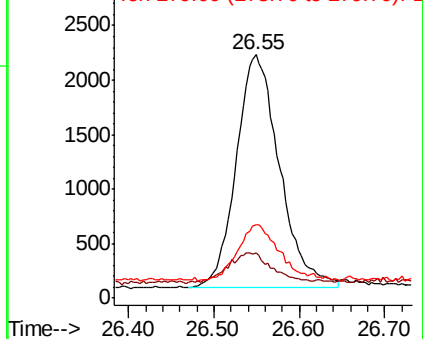
279 30.0 20.2 30.2

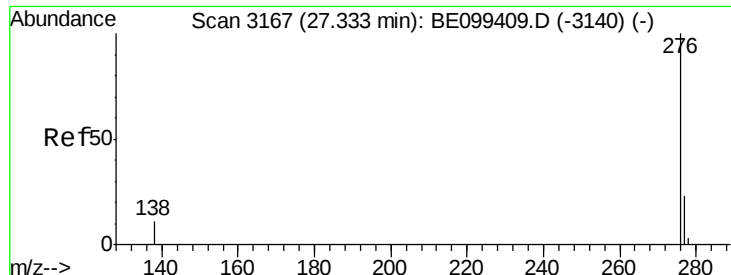


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.090 ng

RT: 27.34 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BE099407.D

Acq: 29 Apr 2019 14:19

Instrument :

BNA\_E

ClientSampleId :

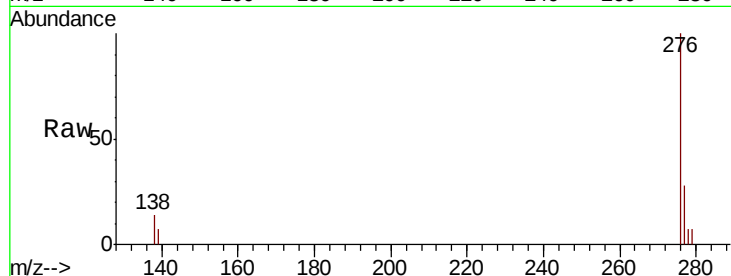
Tot Ion: 276 Resp: 7822

Ion Ratio Lower Upper

276 100

277 28.1 19.5 29.3

138 14.3 9.6 14.4



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

