

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051719\  
 Data File : BE099649.D  
 Acq On : 17 May 2019 13:15  
 Operator : JU/SJ  
 Sample : K2838-03MS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 FEBH-05(33-33.5)MS

Quant Time: May 17 15:37:09 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE051419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 14 19:30:50 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 1816     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.62 | 136  | 6187     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.49 | 164  | 4250     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 11707    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.41 | 240  | 17774    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.96 | 264  | 21362    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.38  | 112  | 1513     | 0.29 | ng    | 0.00     |
| 5) Phenol-d6                | 6.97  | 99   | 2023     | 0.31 | ng    | -0.01    |
| 8) Nitrobenzene-d5          | 8.98  | 82   | 1773     | 0.30 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152  | 3793     | 0.36 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.97 | 330  | 663      | 0.23 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.10 | 172  | 4634     | 0.28 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.26 | 212  | 42715    | 0.27 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.86 | 244  | 8715     | 0.27 | ng    | 0.00     |

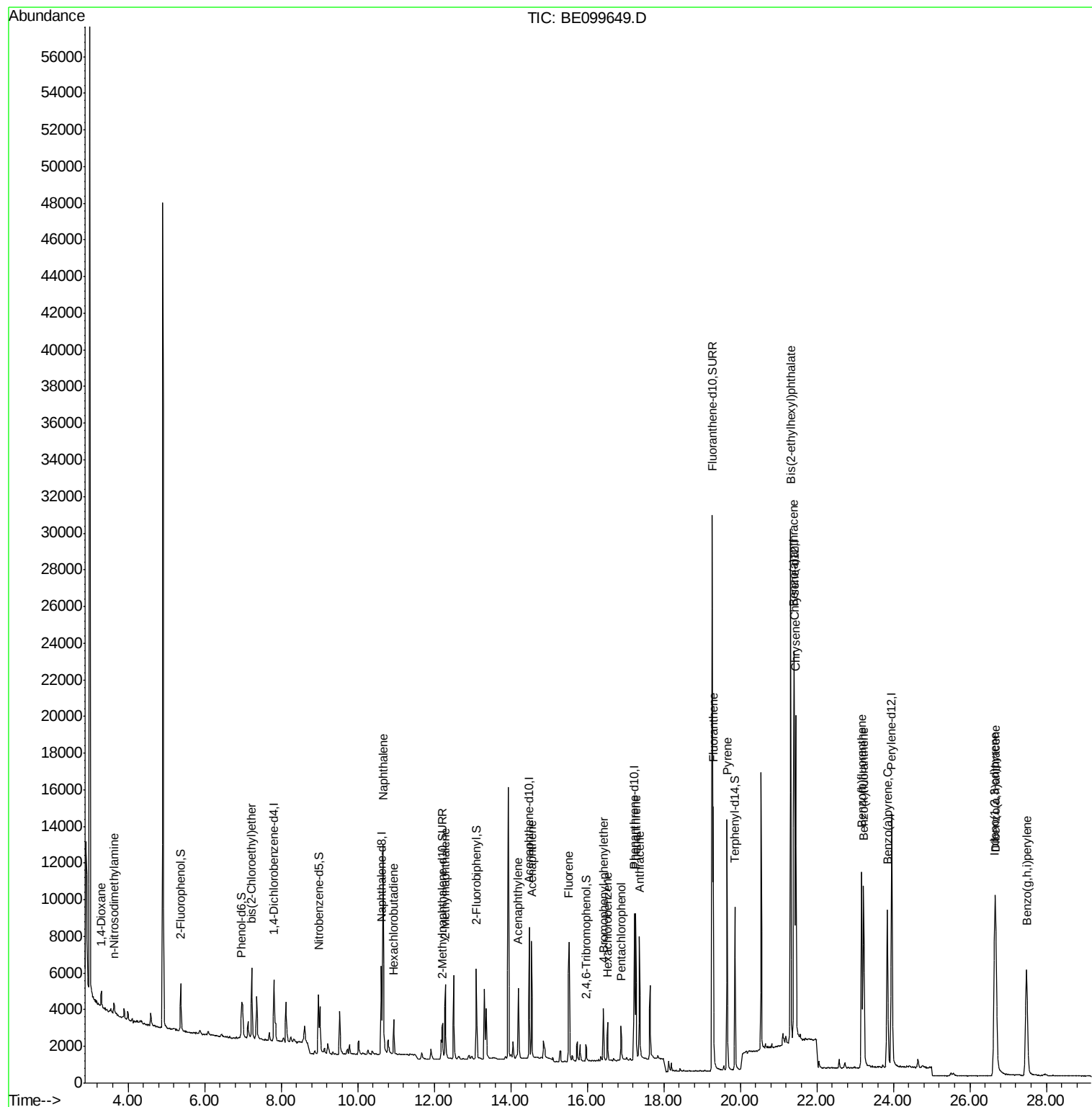
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.30  | 88   | 594      | 0.222 | ng    | # 45   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42   | 397      | 0.232 | ng    | # 81   |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93   | 1619     | 0.295 | ng    | 95     |
| 9) Naphthalene                 | 10.67 | 128  | 19851    | 0.302 | ng    | 100    |
| 10) Hexachlorobutadiene        | 10.94 | 225  | 1345     | 0.279 | ng    | 99     |
| 12) 2-Methylnaphthalene        | 12.30 | 142  | 3200     | 0.294 | ng    | 99     |
| 16) Acenaphthylene             | 14.20 | 152  | 5452     | 0.272 | ng    | 99     |
| 17) Acenaphthene               | 14.54 | 154  | 3149     | 0.278 | ng    | 99     |
| 18) Fluorene                   | 15.53 | 166  | 4464     | 0.275 | ng    | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248  | 1907     | 0.283 | ng    | 98     |
| 21) Hexachlorobenzene          | 16.53 | 284  | 1895     | 0.286 | ng    | 100    |
| 22) Pentachlorophenol          | 16.88 | 266  | 1296     | 0.611 | ng    | 96     |
| 23) Phenanthrene               | 17.27 | 178  | 8434     | 0.290 | ng    | 99     |
| 24) Anthracene                 | 17.36 | 178  | 7415     | 0.277 | ng    | 100    |
| 26) Fluoranthene               | 19.29 | 202  | 13074    | 0.297 | ng    | 100    |
| 28) Pyrene                     | 19.65 | 202  | 13753    | 0.304 | ng    | 100    |
| 30) Benzo(a)anthracene         | 21.40 | 228  | 16390    | 0.305 | ng    | 98     |
| 31) Chrysene                   | 21.45 | 228  | 16007    | 0.289 | ng    | 97     |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149  | 31757    | 0.383 | ng    | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.64 | 276  | 18841    | 0.274 | ng    | 100    |
| 35) Benzo(b)fluoranthene       | 23.18 | 252  | 15736    | 0.263 | ng    | 99     |
| 36) Benzo(k)fluoranthene       | 23.23 | 252  | 16725    | 0.284 | ng    | 99     |
| 37) Benzo(a)pyrene             | 23.84 | 252  | 15805    | 0.273 | ng    | 99     |
| 38) Dibenzo(a,h)anthracene     | 26.68 | 278  | 15438    | 0.257 | ng    | 99     |
| 39) Benzo(g,h,i)perylene       | 27.48 | 276  | 16032    | 0.266 | ng    | 99     |

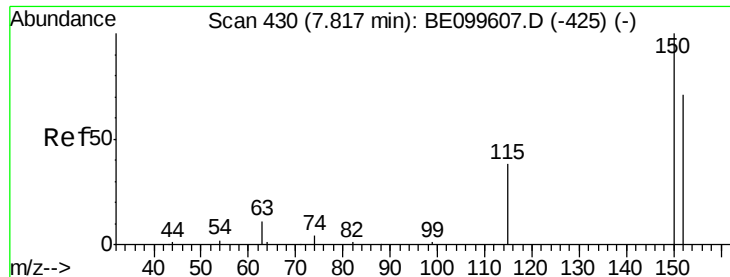
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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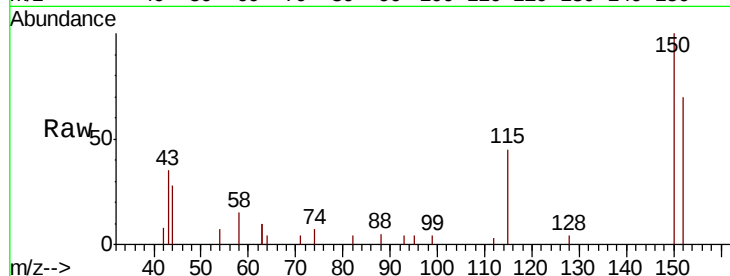


#1

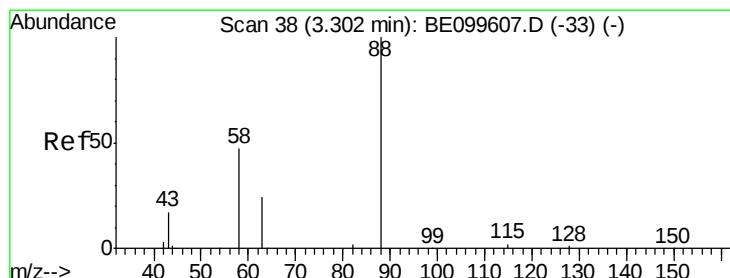
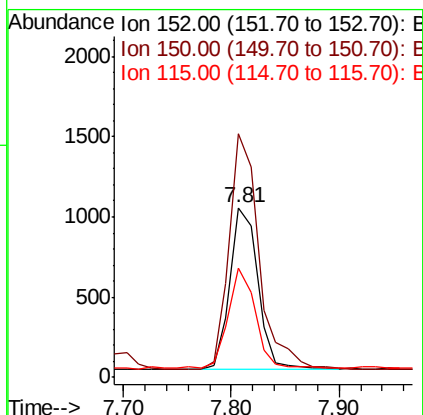
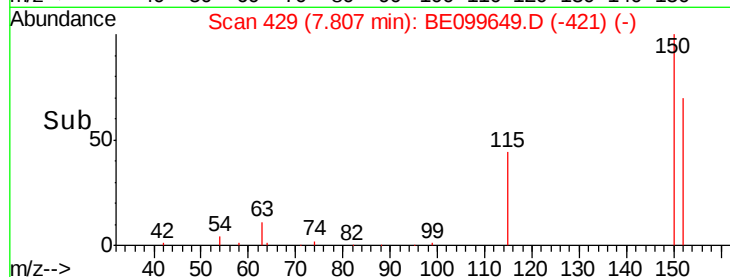
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.81 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Instrument :  
BNA\_E  
ClientSampleId :  
FEBH-05(33-33.5)MS

Tot Ion:152 Resp: 1816  
Ion Ratio Lower Upper  
152 100  
150 143.8 110.1 165.1  
115 64.7 46.2 69.4



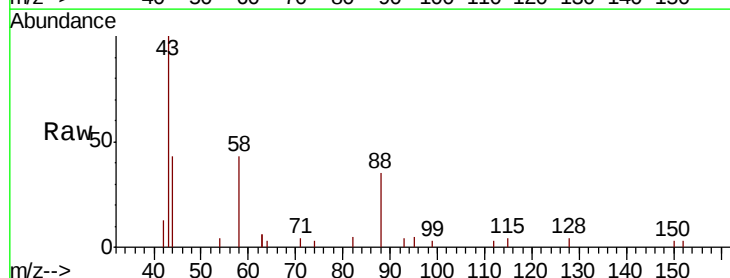
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



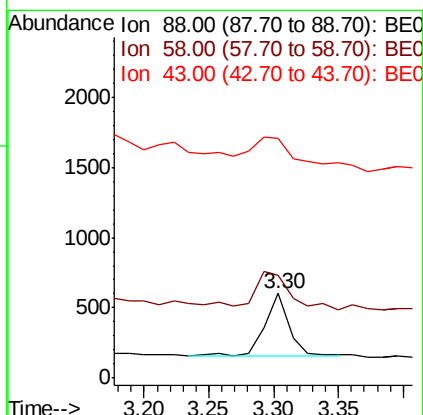
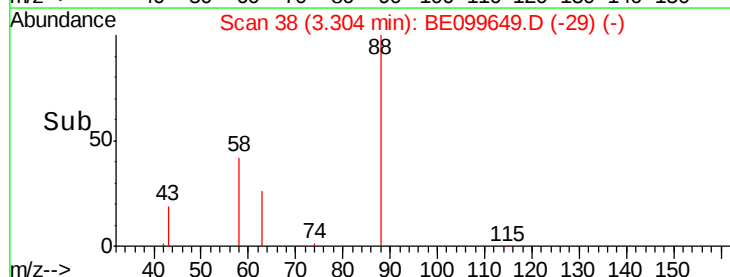
#2

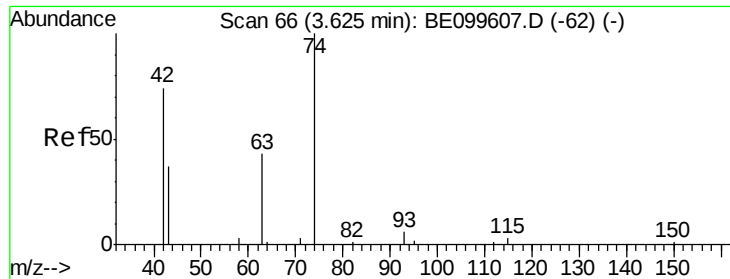
1,4-Dioxane  
Concen: 0.222 ng  
RT: 3.30 min Scan# 38  
Delta R.T. 0.00 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Tgt Ion: 88 Resp: 594  
Ion Ratio Lower Upper  
88 100  
58 81.8 39.8 59.6#  
43 62.0 21.0 31.6#



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



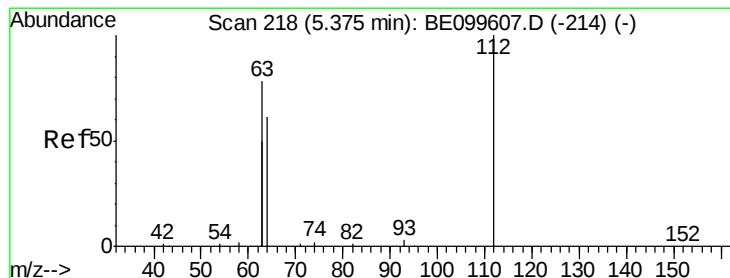
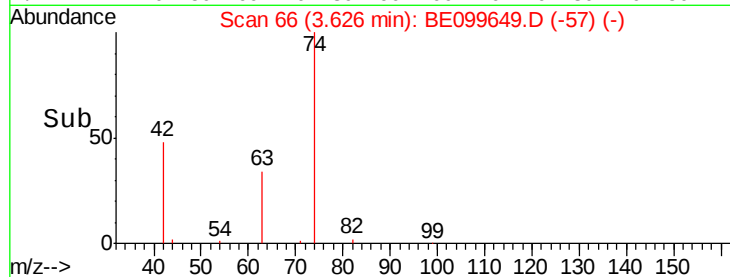
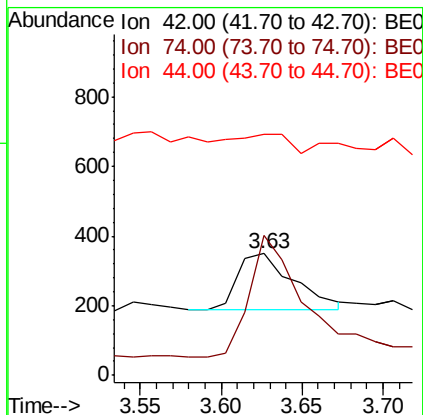
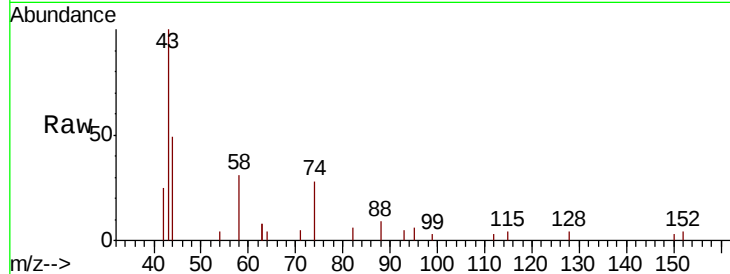


#3

n-Nitrosodimethylamine  
 Concen: 0.232 ng  
 RT: 3.63 min Scan# 66  
 Delta R.T. 0.00 min  
 Lab File: BE099649.D  
 Acq: 17 May 2019 13:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 FEBH-05(33-33.5)MS

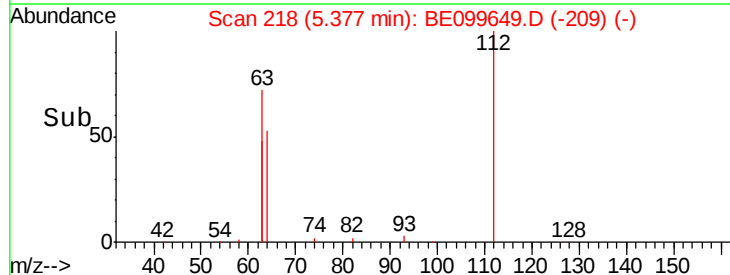
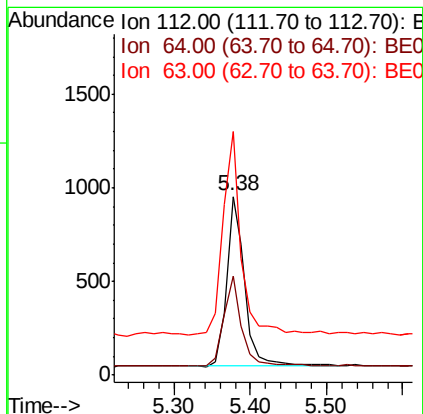
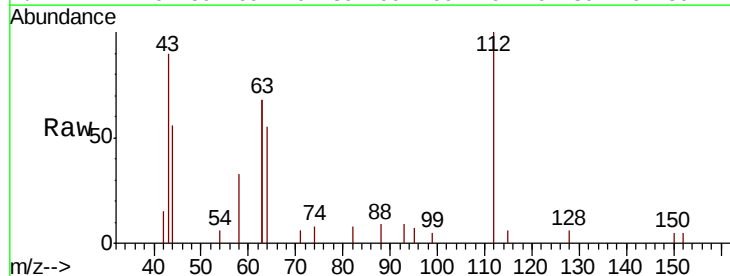
| Tot Ion   | 42    | Resp  | 397   |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 193.7 | 134.7 | 202.1 |
| 44        | 26.2  | 12.5  | 18.7# |

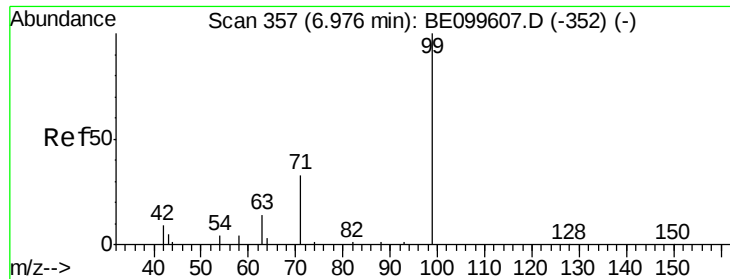


#4

2-Fluorophenol  
 Concen: 0.293 ng  
 RT: 5.38 min Scan# 218  
 Delta R.T. 0.00 min  
 Lab File: BE099649.D  
 Acq: 17 May 2019 13:15

| Tgt Ion   | 112   | Resp  | 1513  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 52.6  | 43.7  | 65.5  |
| 63        | 128.1 | 94.0  | 141.0 |





#5

Phenol-d6

Concen: 0.310 ng

RT: 6.97 min Scan# 356

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

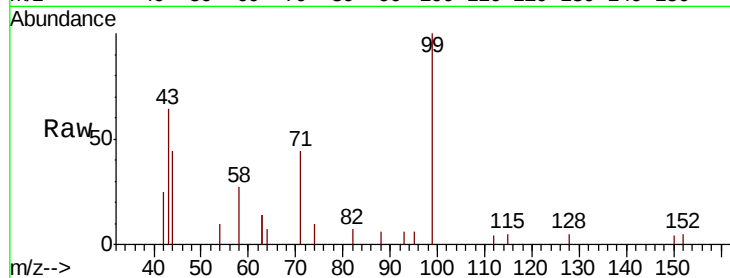
Tot Ion: 99 Resp: 2023

Ion Ratio Lower Upper

99 100

42 18.1 14.3 21.5

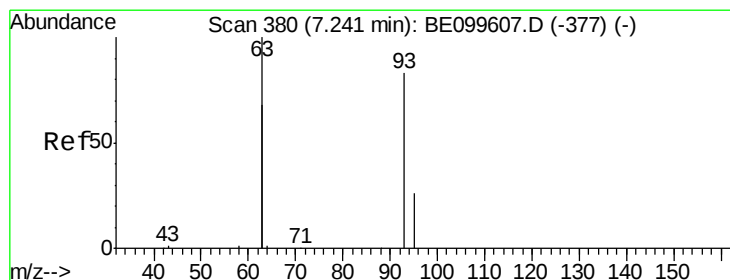
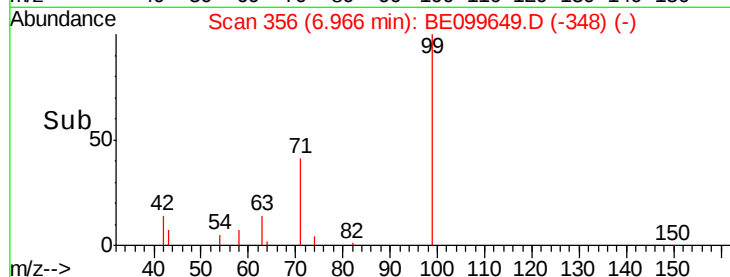
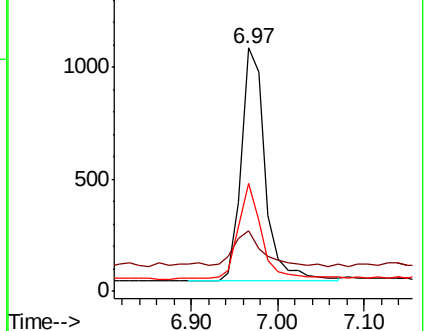
71 38.7 33.1 49.7



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: 0.295 ng

RT: 7.23 min Scan# 379

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

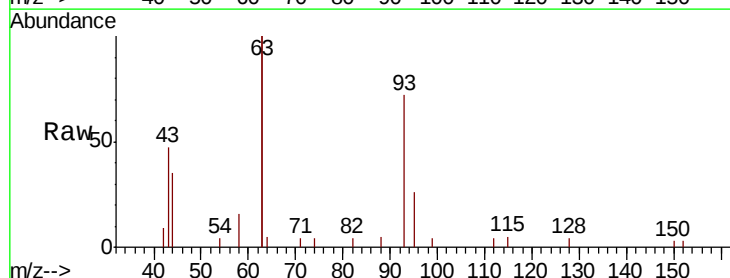
Tgt Ion: 93 Resp: 1619

Ion Ratio Lower Upper

93 100

63 260.1 201.0 301.4

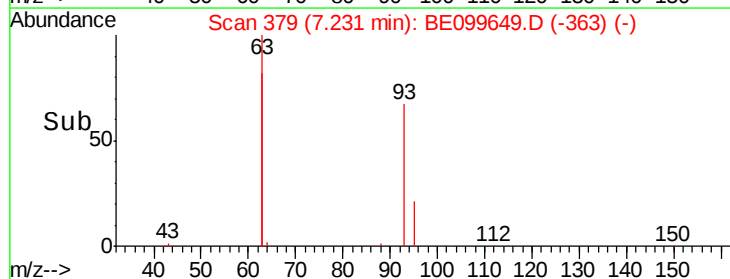
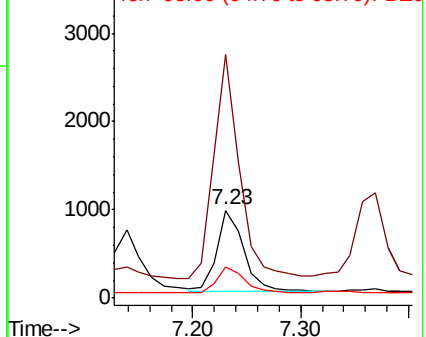
95 31.5 25.0 37.4

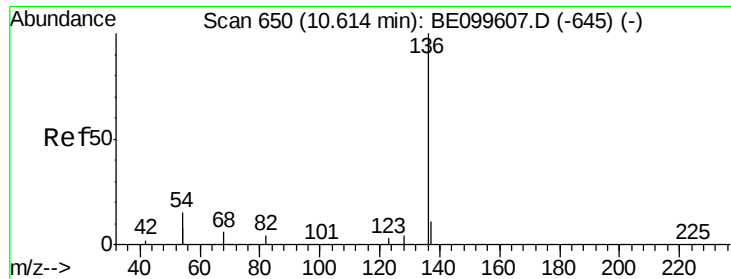


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.62 min Scan# 650

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

Tot Ion:136 Resp: 6187

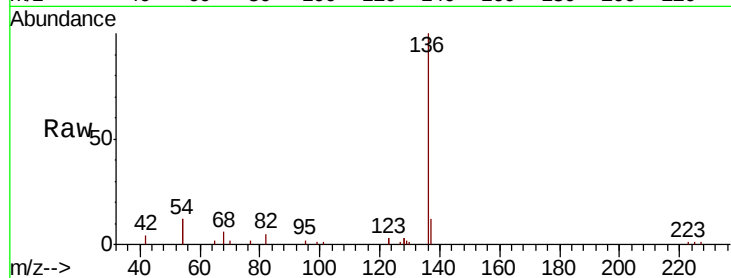
Ion Ratio Lower Upper

136 100

137 11.8 9.7 14.5

54 23.7 23.8 35.8#

68 6.2 6.2 9.2

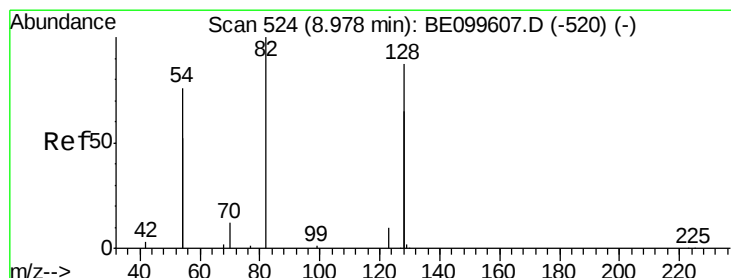
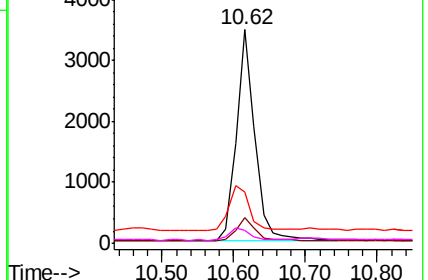
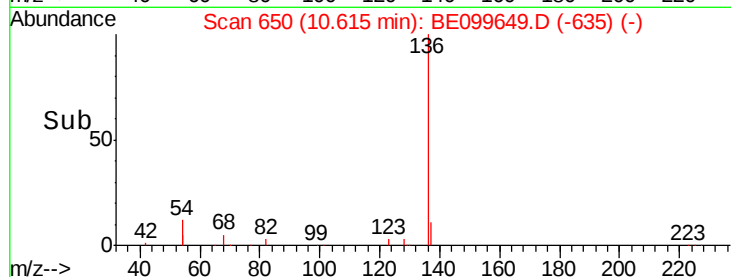


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.296 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

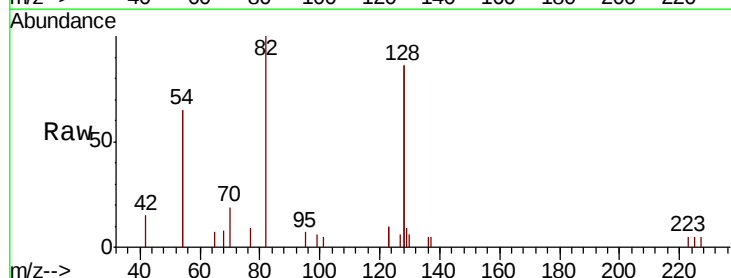
Tgt Ion: 82 Resp: 1773

Ion Ratio Lower Upper

82 100

128 172.7 131.4 197.2

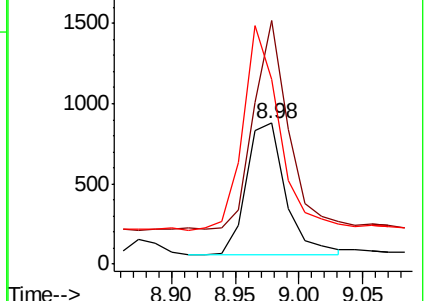
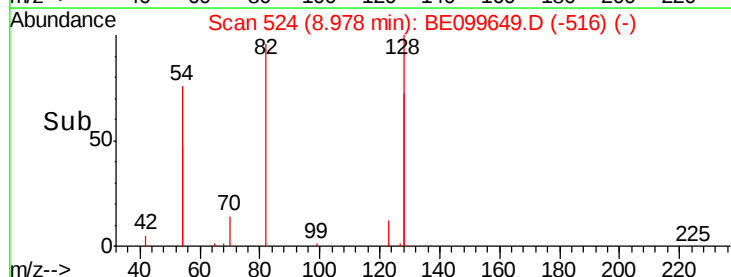
54 130.8 113.9 170.9

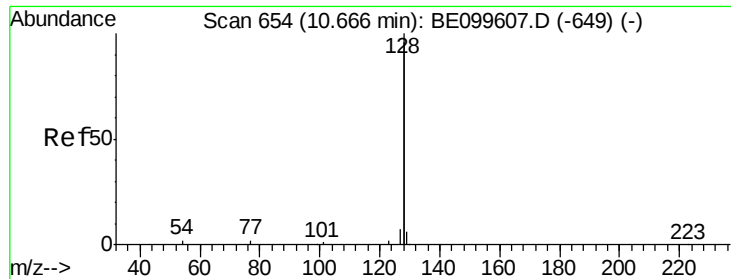


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.302 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

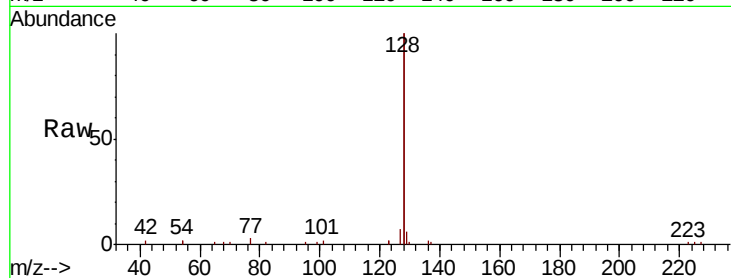
Tot Ion:128 Resp: 19851

Ion Ratio Lower Upper

128 100

129 3.2 2.6 4.0

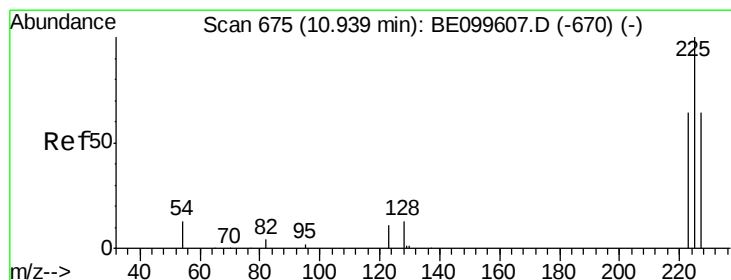
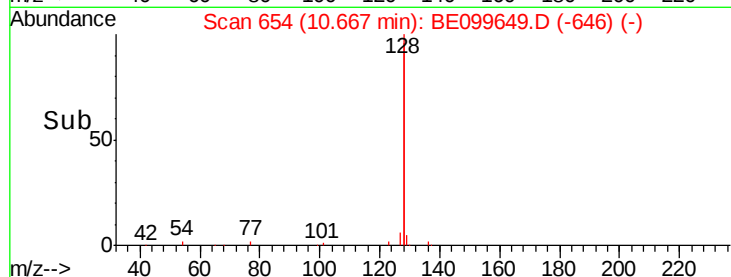
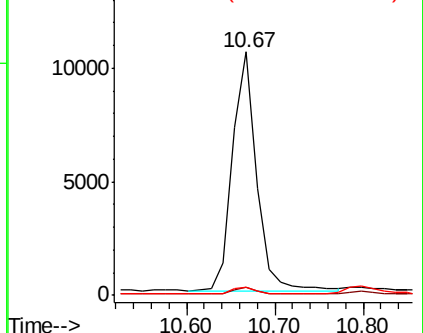
127 3.6 3.0 4.6



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: 0.279 ng

RT: 10.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

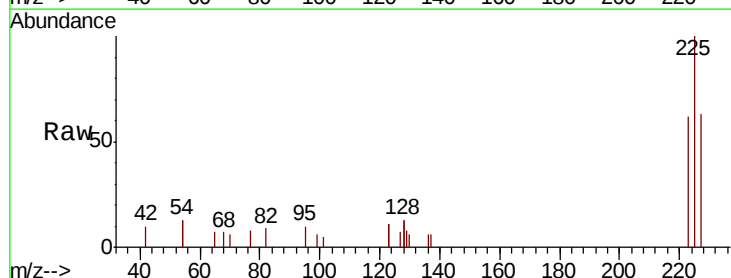
Tgt Ion:225 Resp: 1345

Ion Ratio Lower Upper

225 100

223 61.9 49.8 74.8

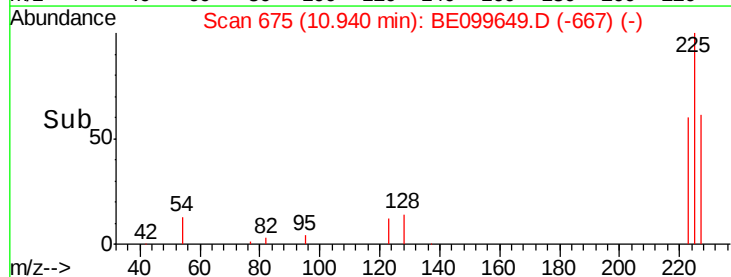
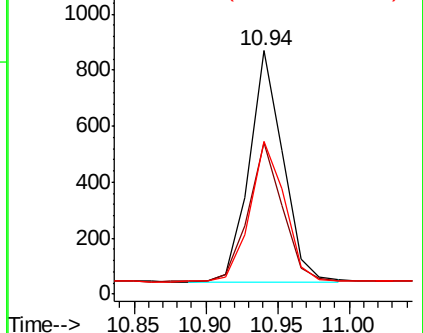
227 63.0 51.2 76.8

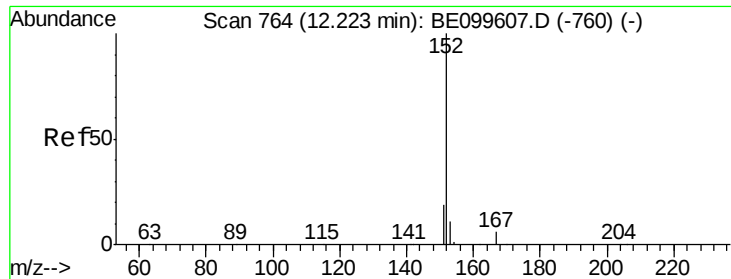


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

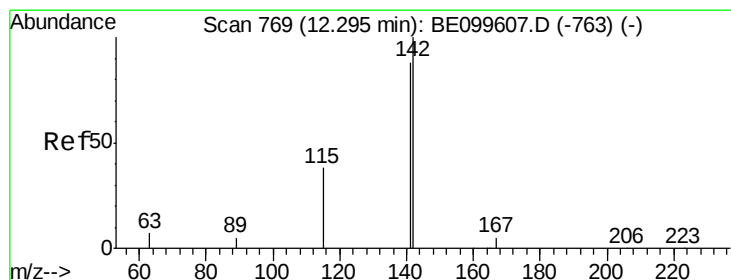
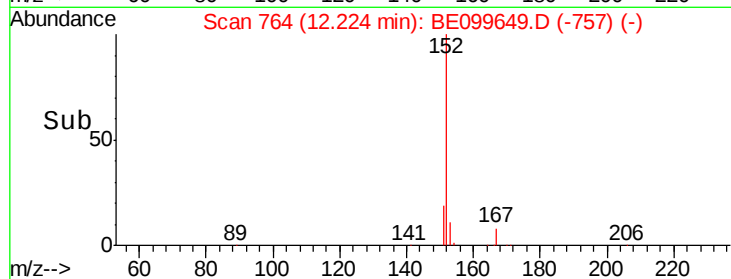
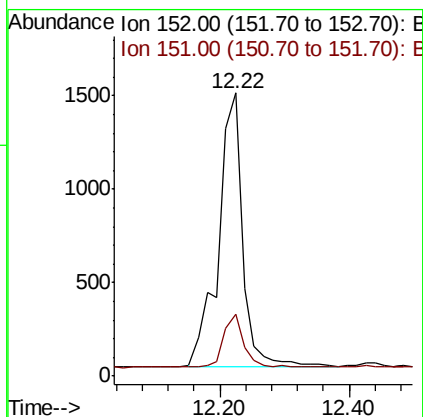
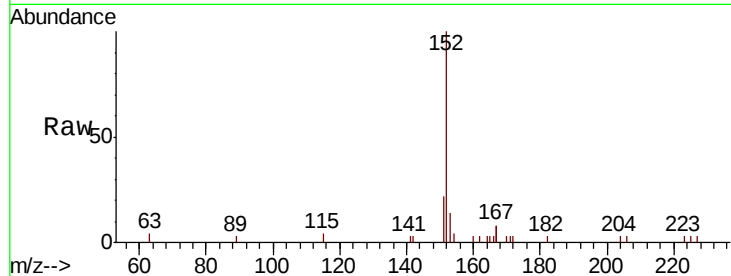




#11  
2-Methylnaphthalene-d10  
Concen: 0.364 ng  
RT: 12.22 min Scan# 764  
Delta R.T. 0.00 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

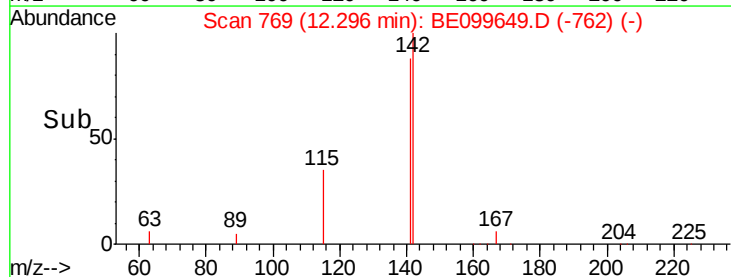
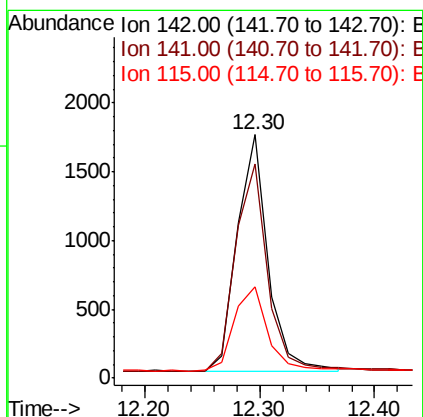
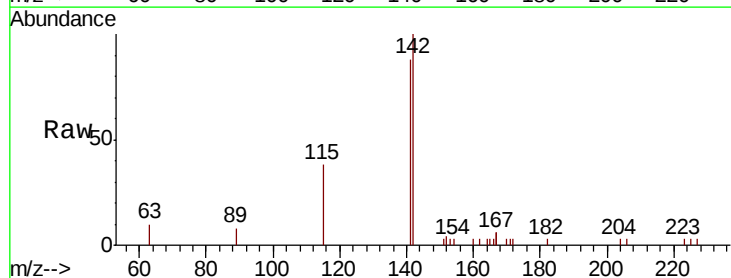
Instrument :  
BNA\_E  
ClientSampleId :  
FEBH-05(33-33.5)MS

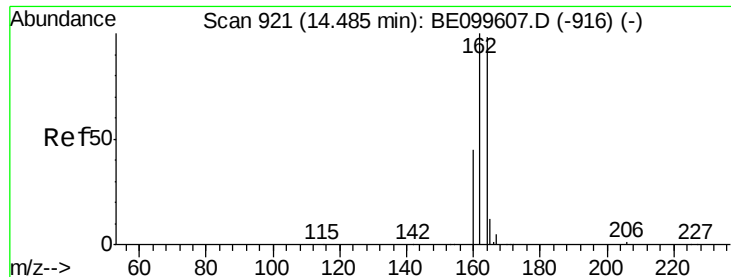
Tot Ion:152 Resp: 3793  
Ion Ratio Lower Upper  
152 100  
151 16.1 15.3 22.9



#12  
2-Methylnaphthalene  
Concen: 0.294 ng  
RT: 12.30 min Scan# 769  
Delta R.T. 0.00 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Tgt Ion:142 Resp: 3200  
Ion Ratio Lower Upper  
142 100  
141 88.0 70.4 105.6  
115 37.7 32.2 48.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.49 min Scan# 921

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

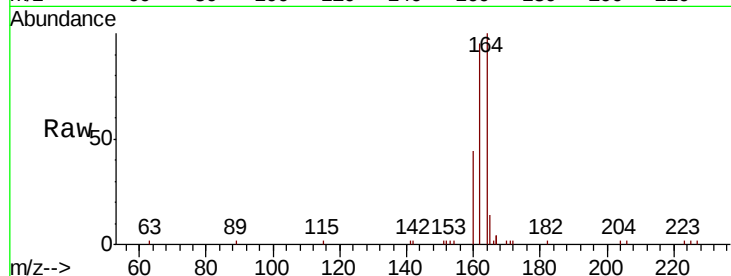
Tot Ion:164 Resp: 4250

Ion Ratio Lower Upper

164 100

162 95.4 81.4 122.0

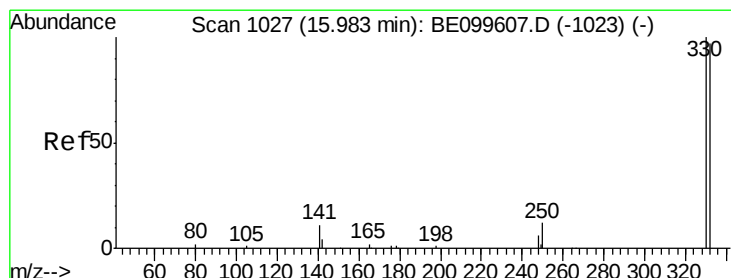
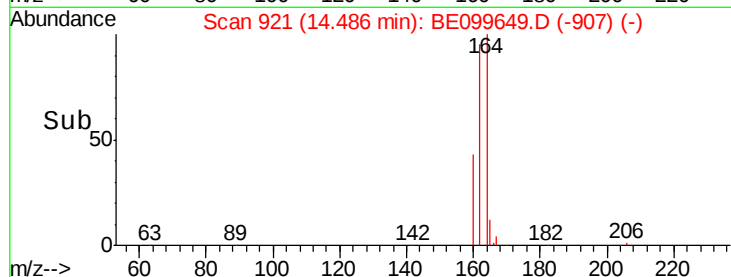
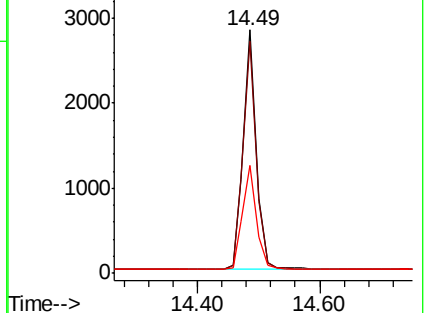
160 44.1 37.4 56.2



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: 0.228 ng

RT: 15.97 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

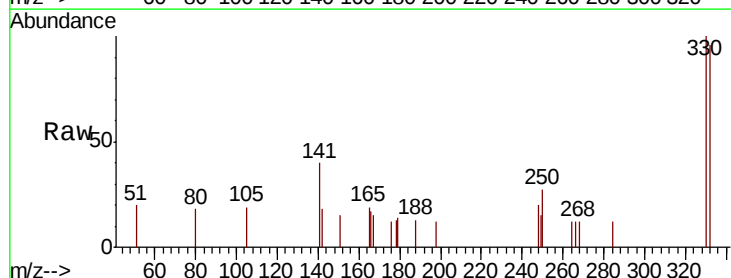
Tgt Ion:330 Resp: 663

Ion Ratio Lower Upper

330 100

332 98.8 73.8 110.8

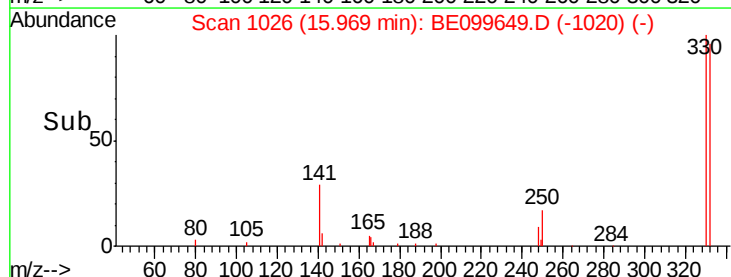
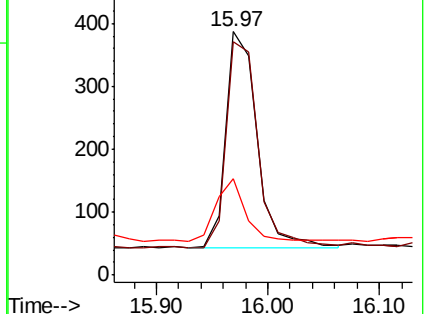
141 27.3 21.0 31.6

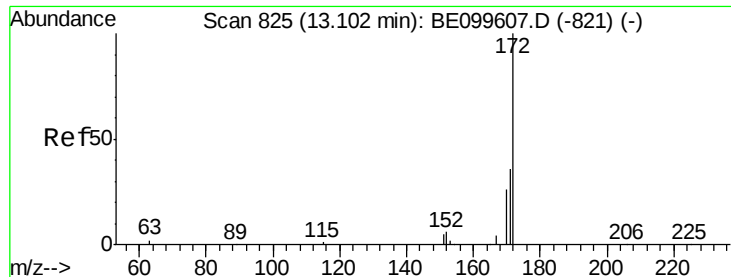


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

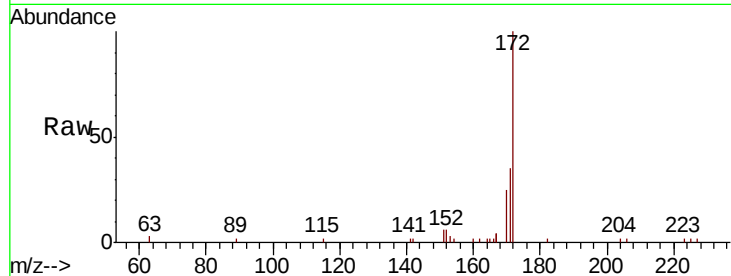




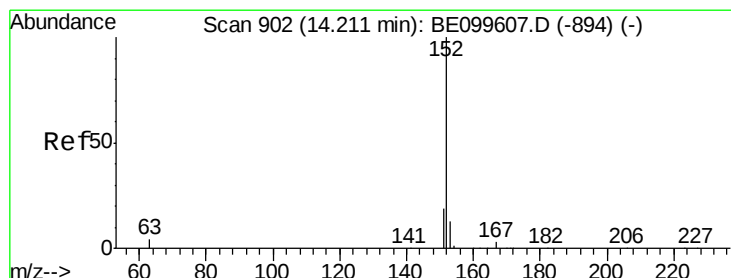
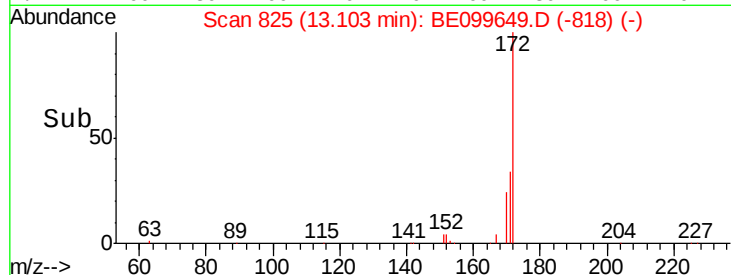
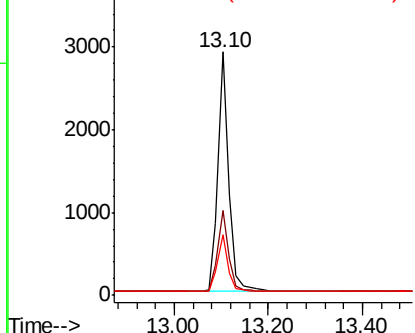
#15  
2-Fluorobiphenyl  
Concen: 0.283 ng  
RT: 13.10 min Scan# 825  
Delta R.T. 0.00 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Instrument :  
BNA\_E  
ClientSampleId :  
FEBH-05(33-33.5)MS

Tot Ion:172 Resp: 4634  
Ion Ratio Lower Upper  
172 100  
171 35.0 29.4 44.2  
170 25.0 21.5 32.3

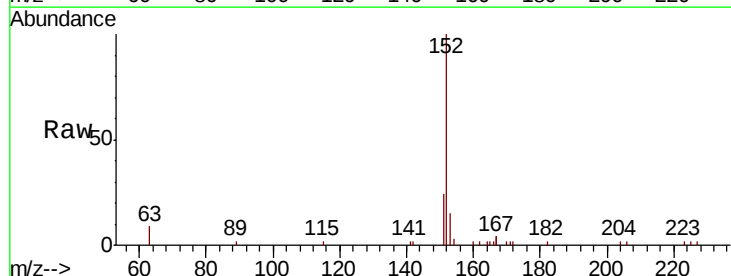


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

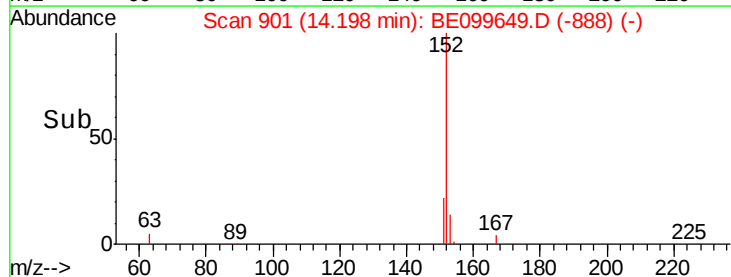
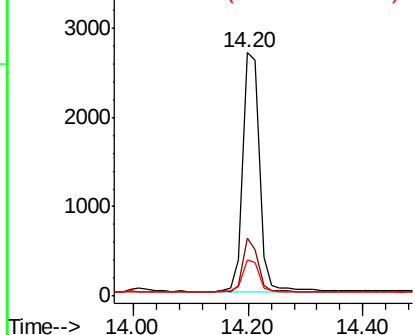


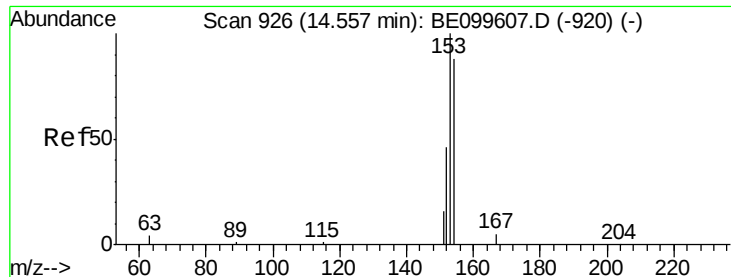
#16  
Acenaphthylene  
Concen: 0.272 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Tgt Ion:152 Resp: 5452  
Ion Ratio Lower Upper  
152 100  
151 20.4 15.6 23.4  
153 12.9 10.4 15.6



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: 0.278 ng

RT: 14.54 min Scan# 925

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

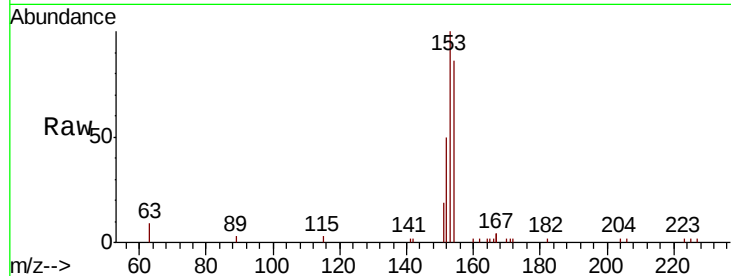
Tot Ion:154 Resp: 3149

Ion Ratio Lower Upper

154 100

153 117.5 94.1 141.1

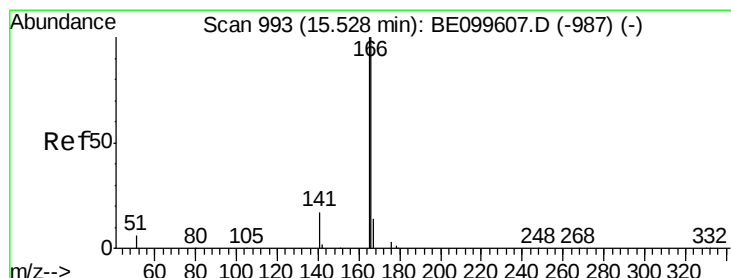
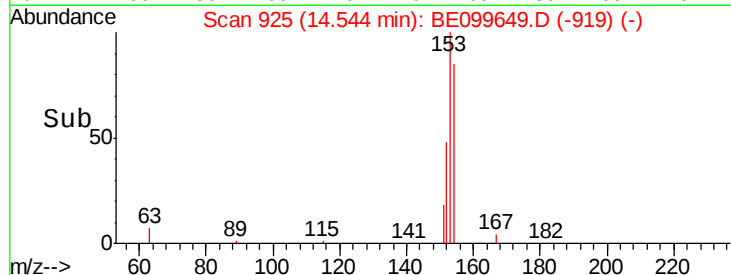
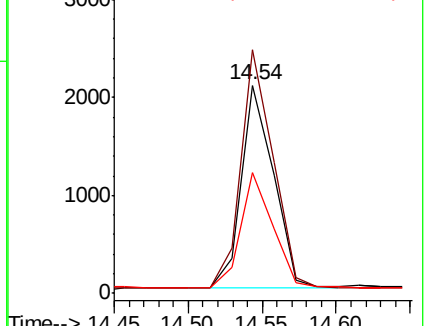
152 56.8 46.5 69.7



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: 0.275 ng

RT: 15.53 min Scan# 993

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

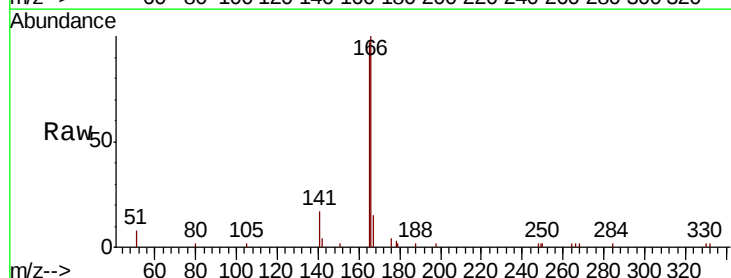
Tgt Ion:166 Resp: 4464

Ion Ratio Lower Upper

166 100

165 98.1 79.8 119.8

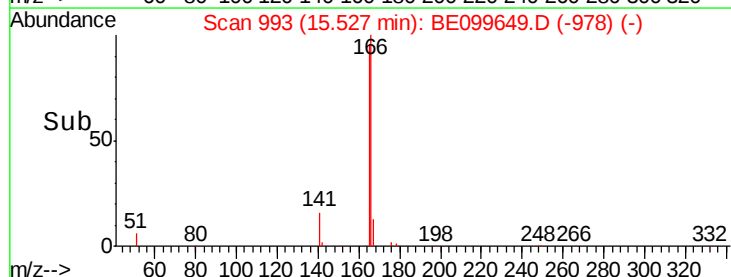
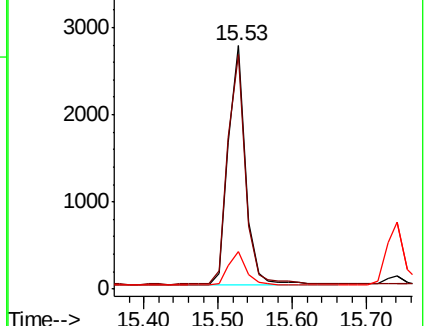
167 13.6 11.2 16.8

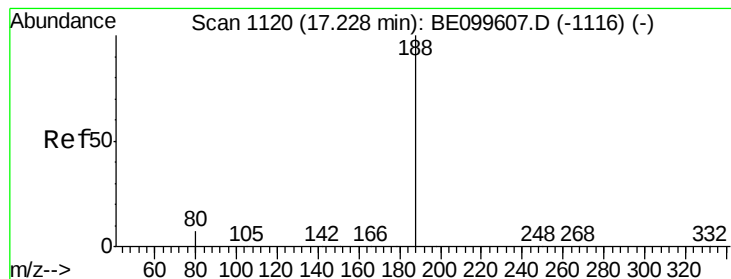


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

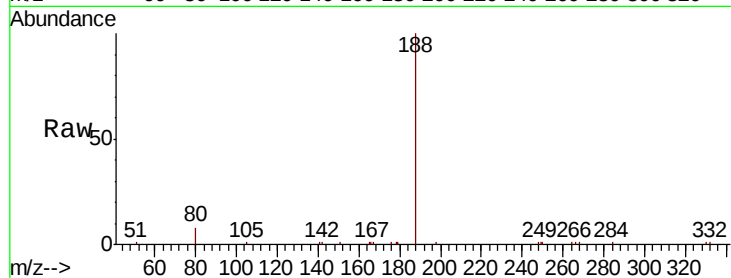
Tot Ion:188 Resp: 11707

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

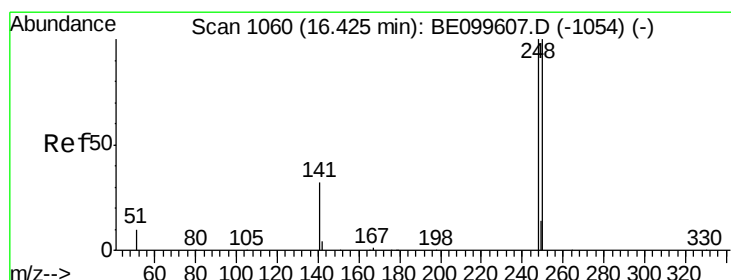
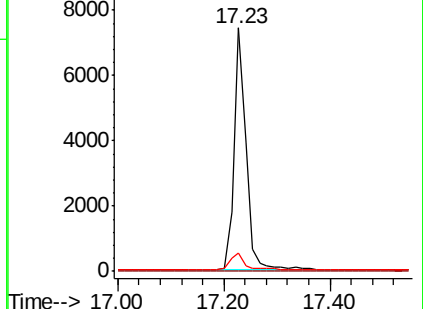
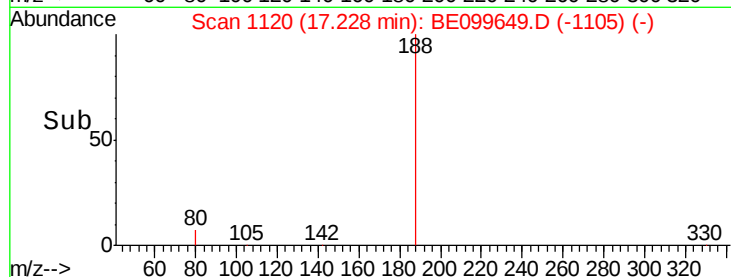
80 7.7 6.4 9.6



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: 0.283 ng

RT: 16.42 min Scan# 1060

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

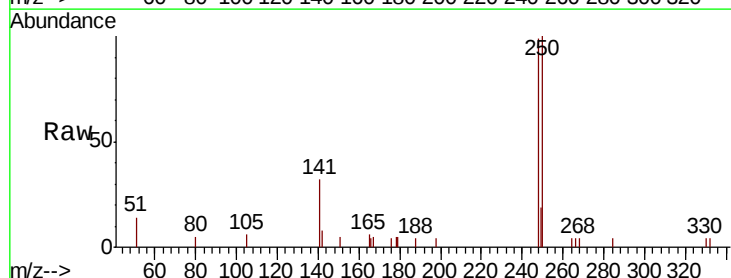
Tgt Ion:248 Resp: 1907

Ion Ratio Lower Upper

248 100

250 101.5 80.4 120.6

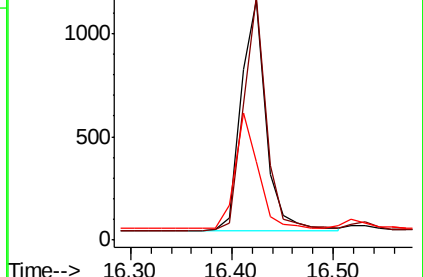
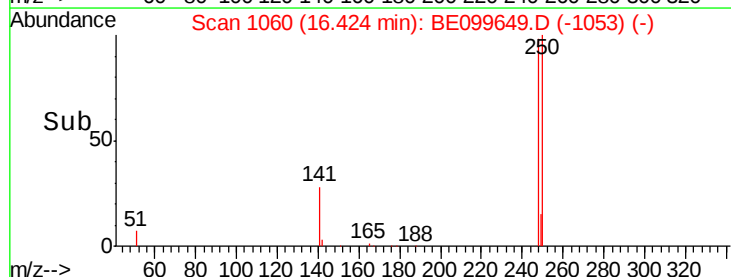
141 32.5 27.8 41.8

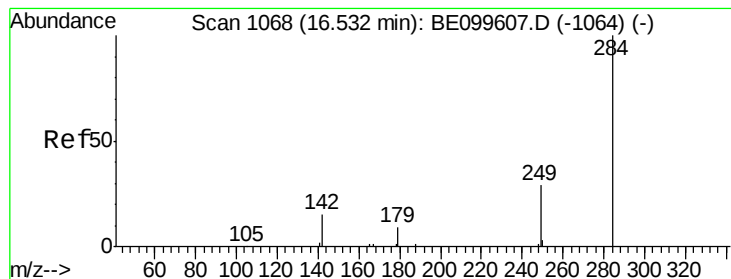


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.286 ng

RT: 16.53 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

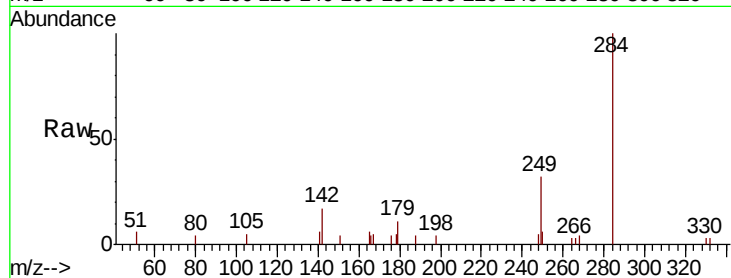
Tot Ion:284 Resp: 1895

Ion Ratio Lower Upper

284 100

142 24.4 19.4 29.2

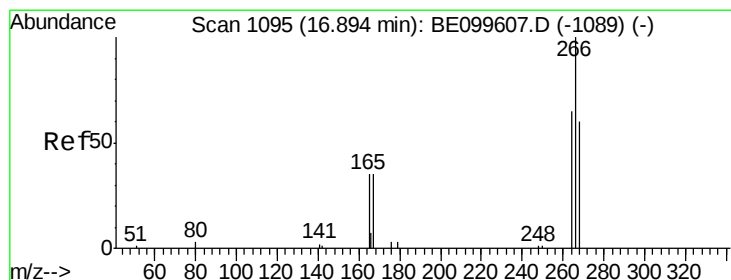
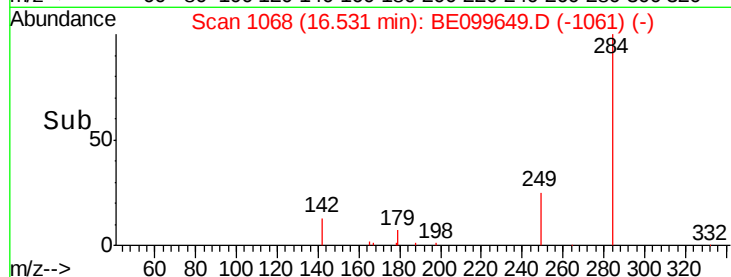
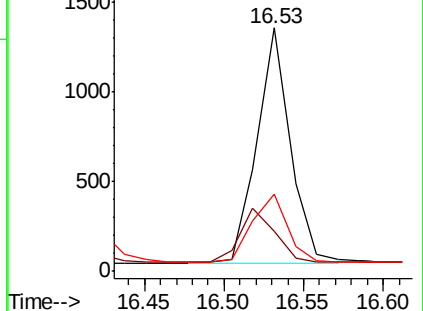
249 30.4 24.6 37.0



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.611 ng

RT: 16.88 min Scan# 1094

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

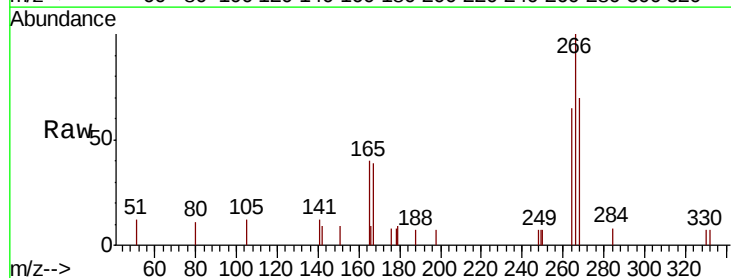
Tgt Ion:266 Resp: 1296

Ion Ratio Lower Upper

266 100

264 65.0 57.7 86.5

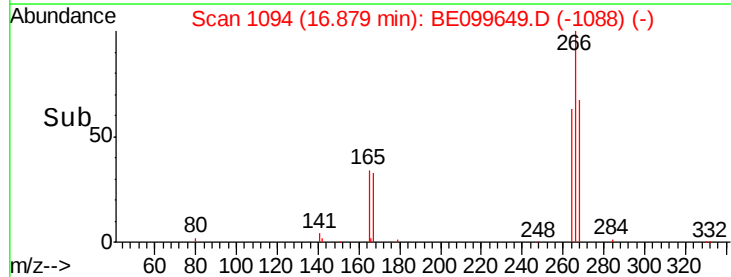
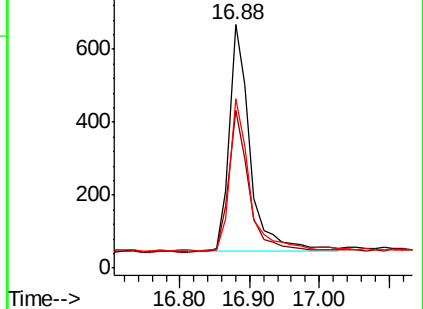
268 69.6 55.8 83.8

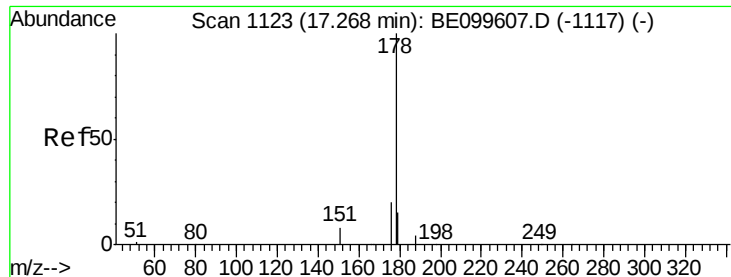


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.290 ng

RT: 17.27 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

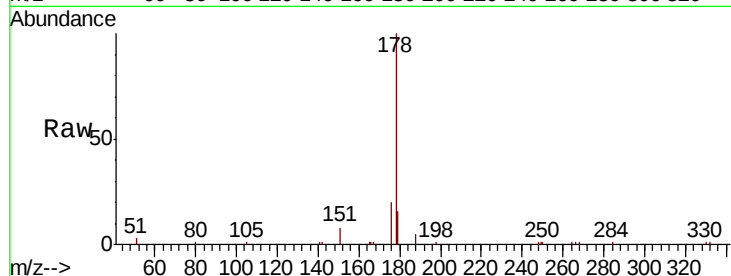
Tot Ion:178 Resp: 8434

Ion Ratio Lower Upper

178 100

176 19.0 15.7 23.5

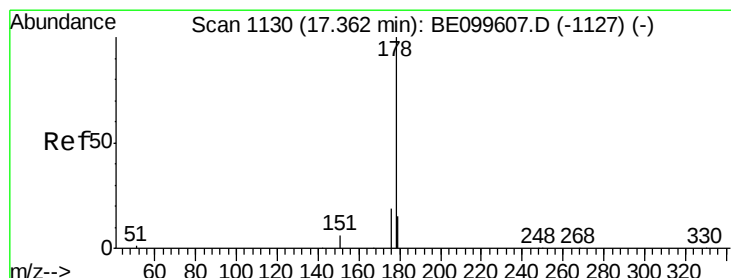
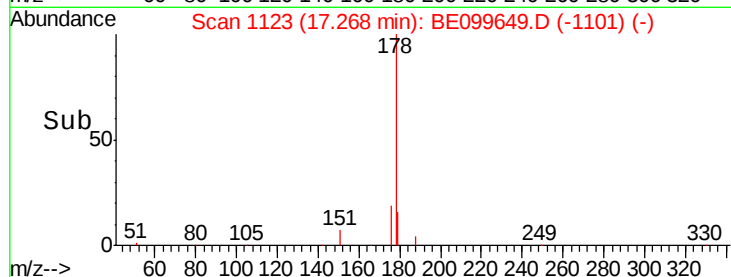
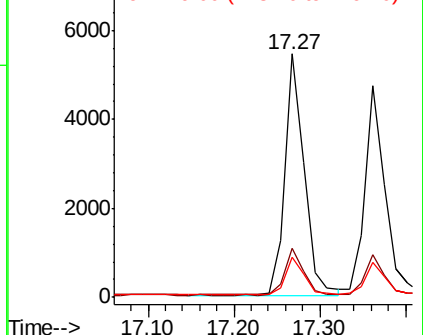
179 15.8 12.2 18.2



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: 0.277 ng

RT: 17.36 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

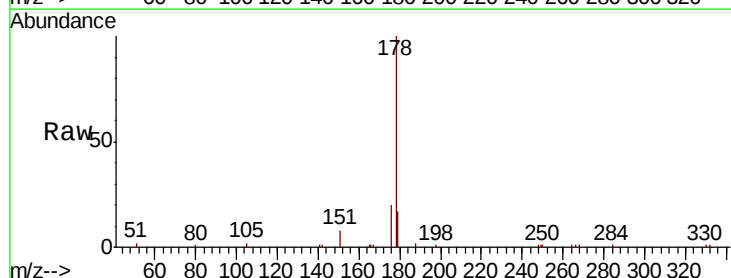
Tgt Ion:178 Resp: 7415

Ion Ratio Lower Upper

178 100

176 18.6 15.2 22.8

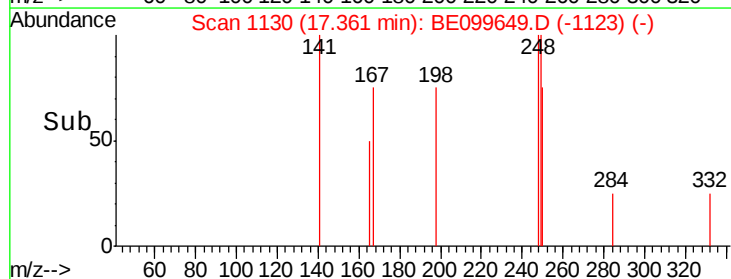
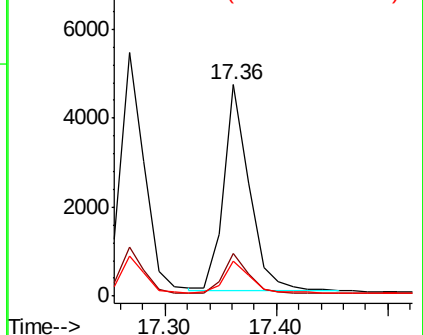
179 15.1 12.1 18.1

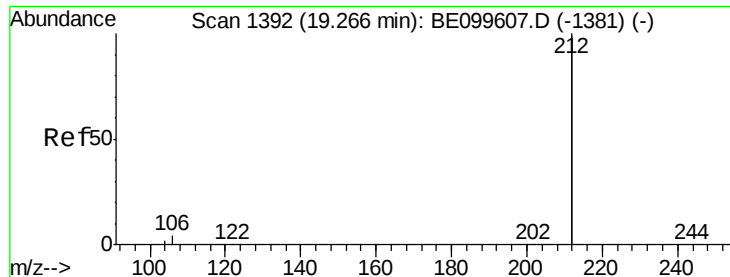


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.274 ng

RT: 19.26 min Scan# 1392

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

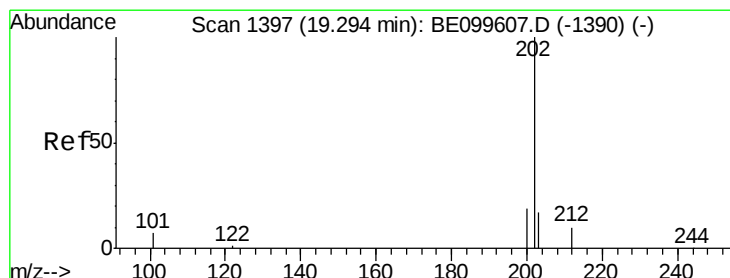
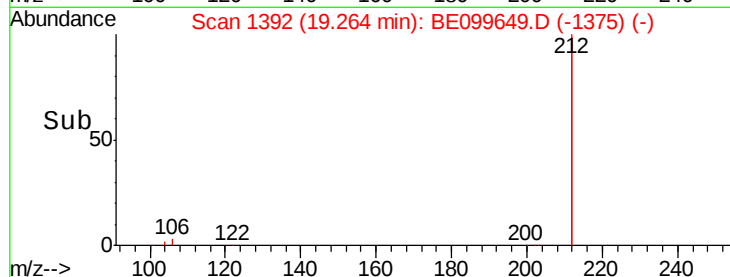
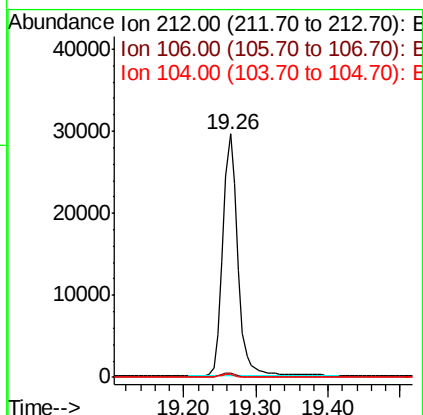
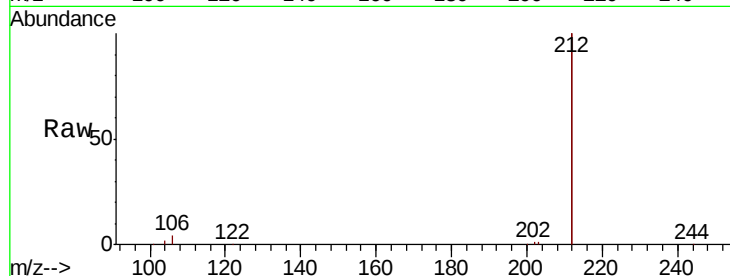
Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:212 | Resp: | 42715       |
| Ion         | Ratio | Lower Upper |
| 212         | 100   |             |
| 106         | 1.9   | 1.4 2.2     |
| 104         | 1.1   | 0.9 1.3     |



#26

Fluoranthene

Concen: 0.297 ng

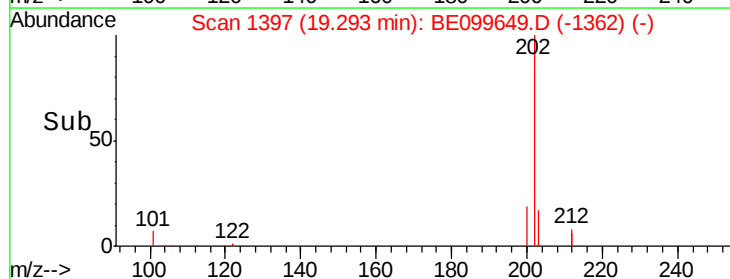
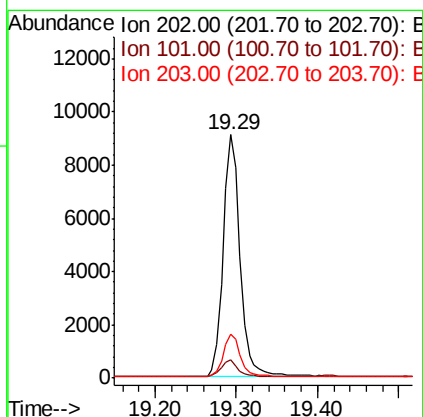
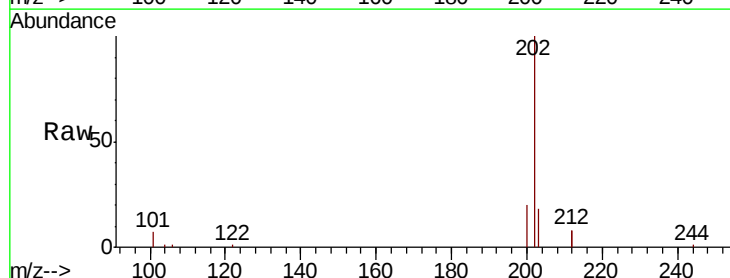
RT: 19.29 min Scan# 1397

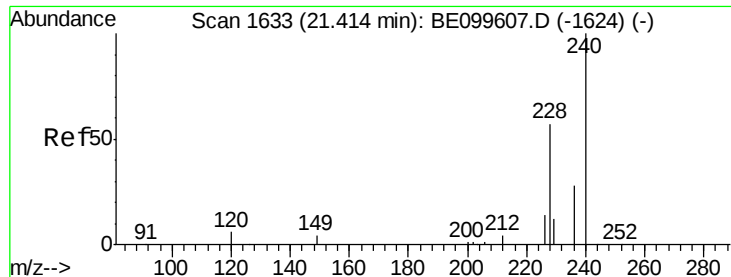
Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:202 | Resp: | 13074       |
| Ion         | Ratio | Lower Upper |
| 202         | 100   |             |
| 101         | 6.9   | 5.0 7.6     |
| 203         | 17.1  | 13.7 20.5   |

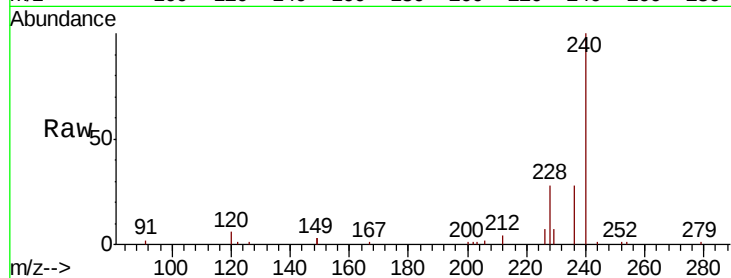




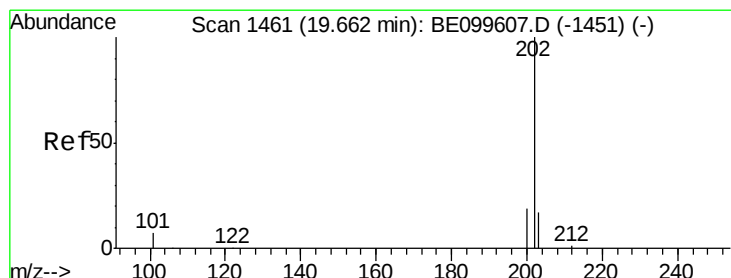
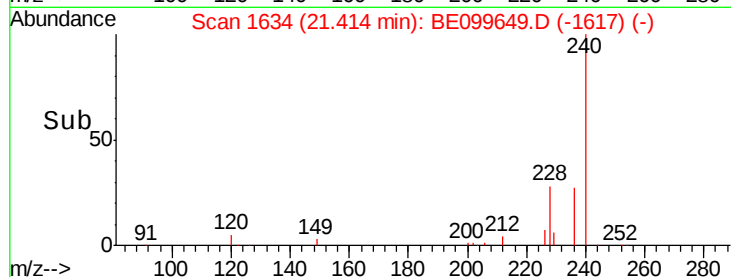
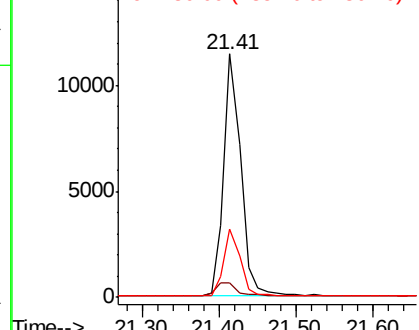
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.41 min Scan# 1634  
Delta R.T. 0.00 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Instrument :  
BNA\_E  
ClientSampleId :  
FEBH-05(33-33.5)MS

Tot Ion:240 Resp: 17774  
Ion Ratio Lower Upper  
240 100  
120 6.0 5.7 8.5  
236 27.8 22.8 34.2

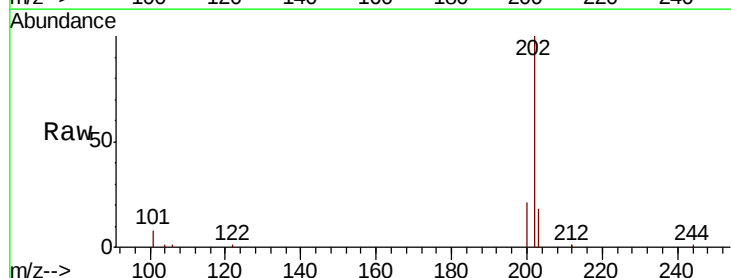


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

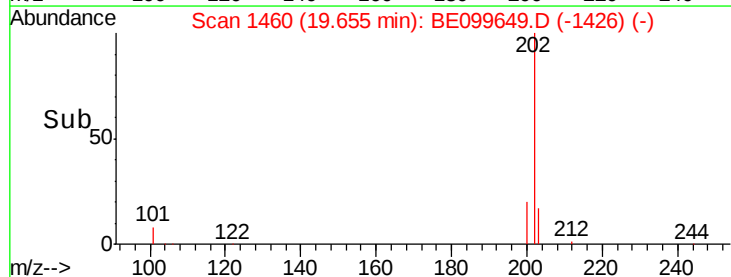
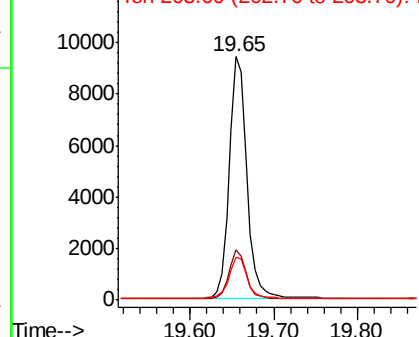


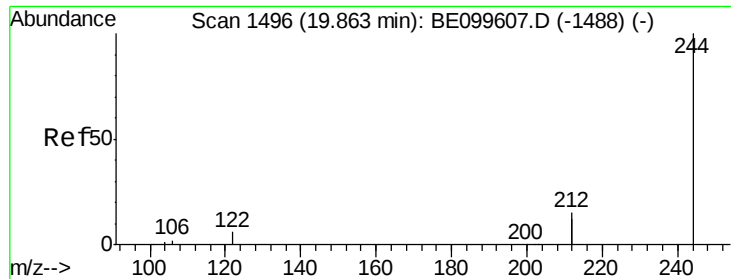
#28  
Pyrene  
Concen: 0.304 ng  
RT: 19.65 min Scan# 1460  
Delta R.T. -0.01 min  
Lab File: BE099649.D  
Acq: 17 May 2019 13:15

Tgt Ion:202 Resp: 13753  
Ion Ratio Lower Upper  
202 100  
200 19.6 15.8 23.6  
203 17.9 14.1 21.1



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





#29

Terphenyl-d14

Concen: 0.272 ng

RT: 19.86 min Scan# 1496

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

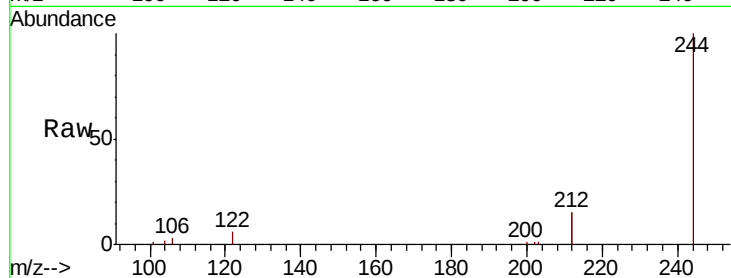
Tot Ion:244 Resp: 8715

Ion Ratio Lower Upper

244 100

212 29.8 23.8 35.6

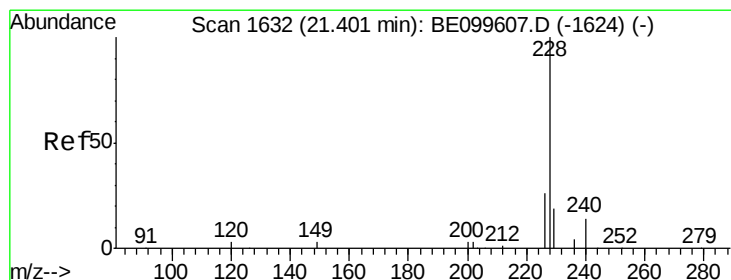
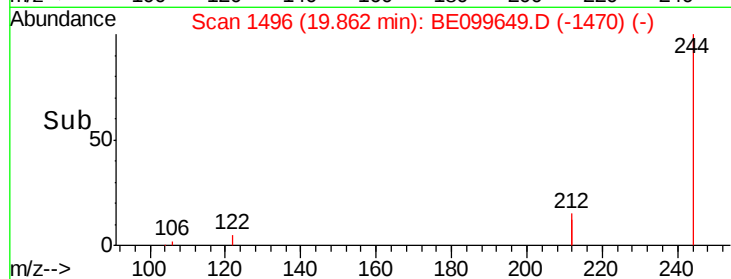
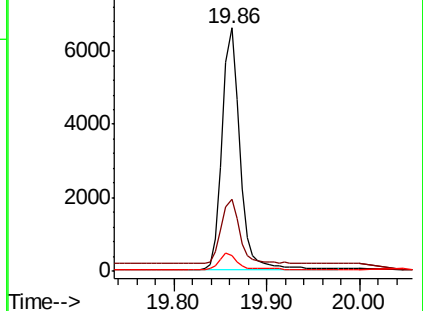
122 6.2 5.0 7.6



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.305 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

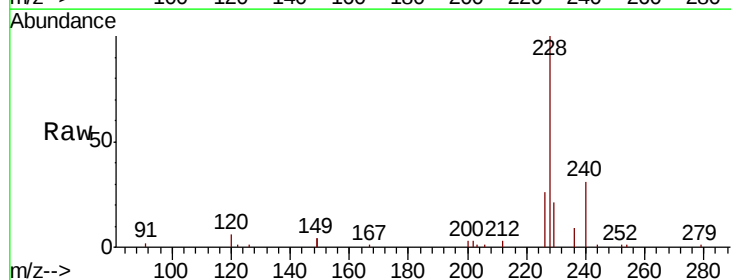
Tgt Ion:228 Resp: 16390

Ion Ratio Lower Upper

228 100

226 26.0 21.4 32.2

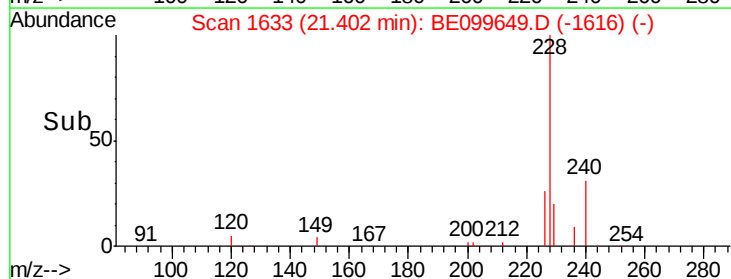
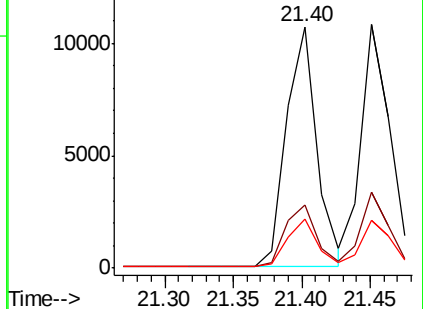
229 20.6 15.8 23.8

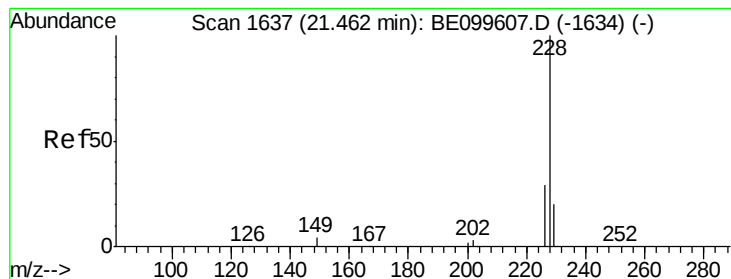


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.289 ng

RT: 21.45 min Scan# 1637

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

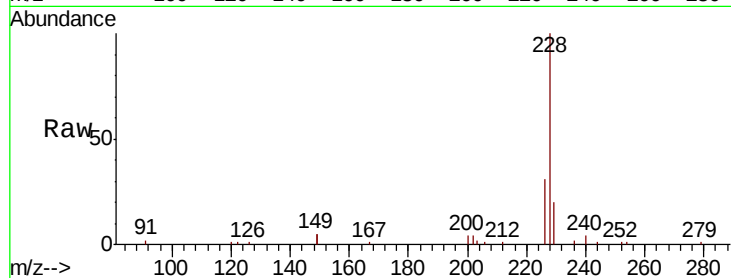
Tot Ion:228 Resp: 16007

Ion Ratio Lower Upper

228 100

226 31.0 23.0 34.4

229 19.8 16.4 24.6

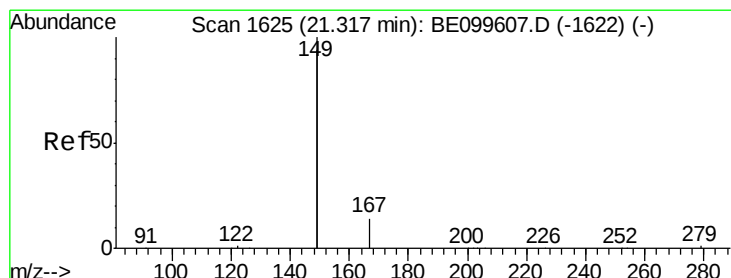
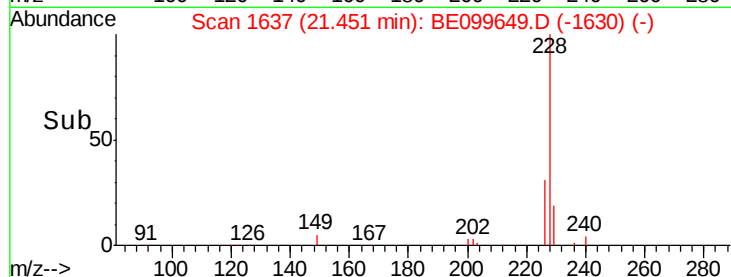
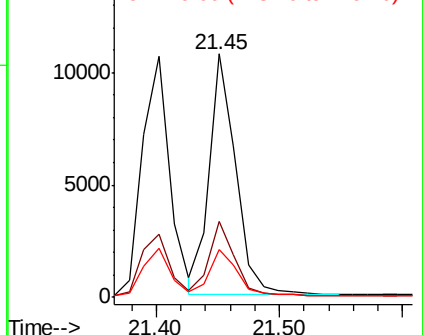


Abundance

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: 0.383 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

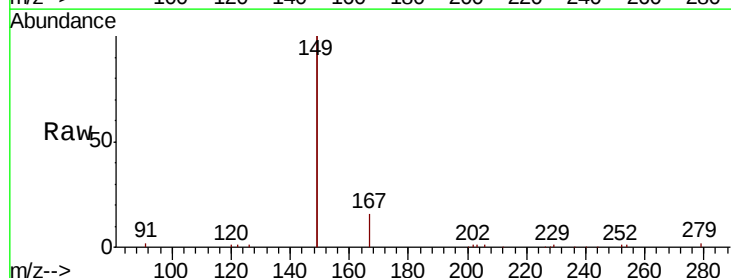
Tgt Ion:149 Resp: 31757

Ion Ratio Lower Upper

149 100

167 7.5 6.0 9.0

279 1.3 1.1 1.7

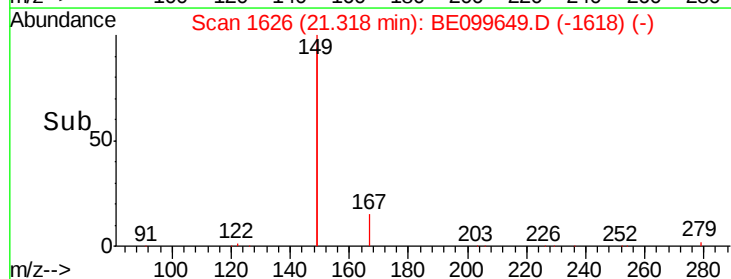
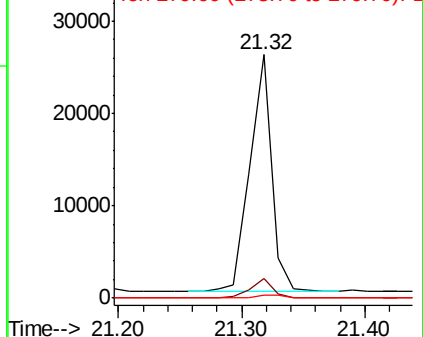


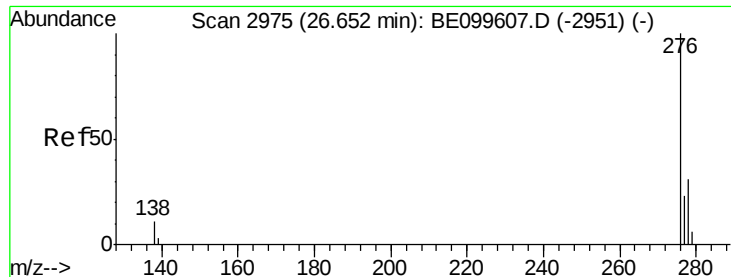
Abundance

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

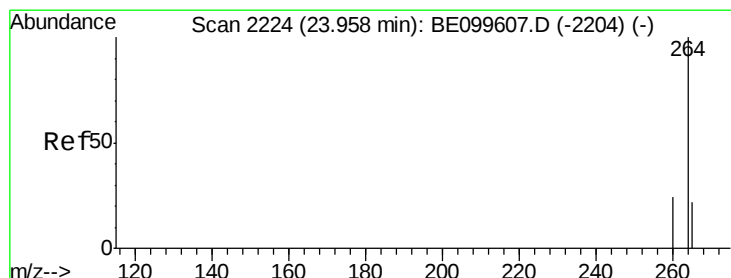
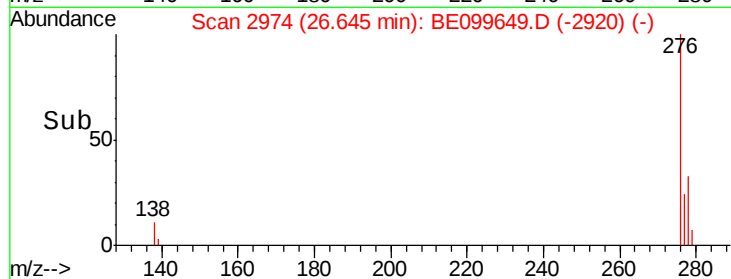
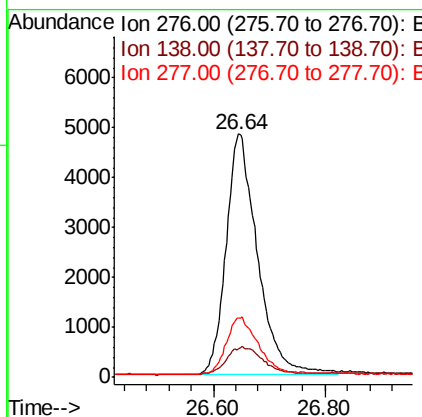
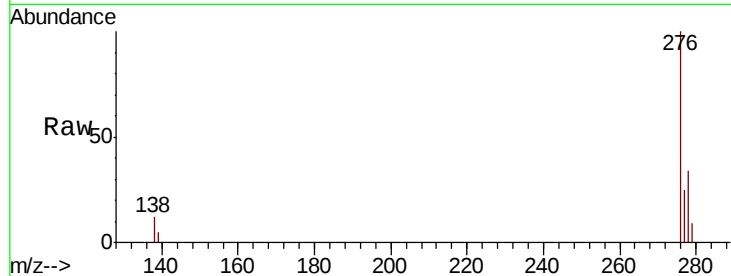




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.274 ng  
 RT: 26.64 min Scan# 2974  
 Delta R.T. -0.01 min  
 Lab File: BE099649.D  
 Acq: 17 May 2019 13:15

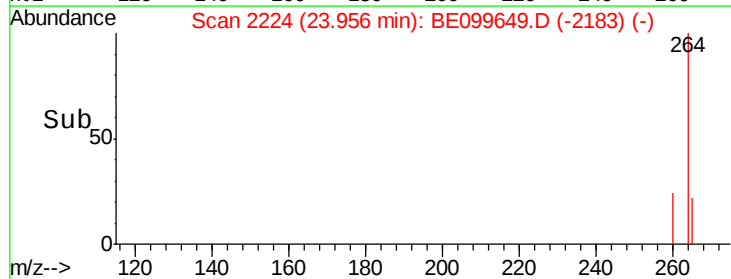
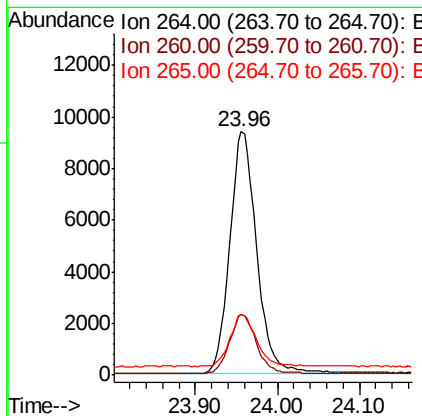
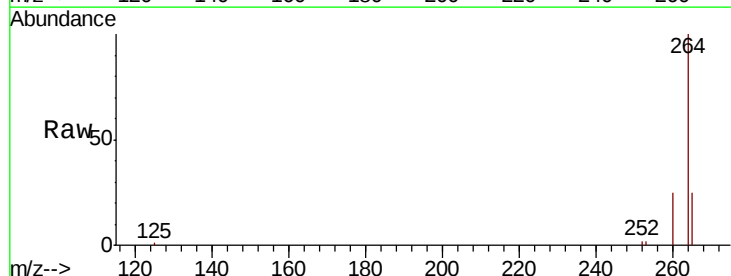
Instrument :  
 BNA\_E  
 ClientSampleId :  
 FEBH-05(33-33.5)MS

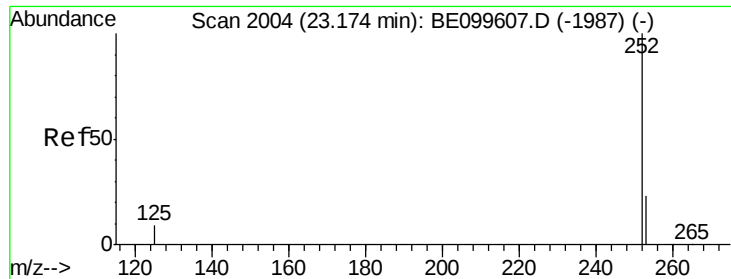
Tot Ion:276 Resp: 18841  
 Ion Ratio Lower Upper  
 276 100  
 138 12.5 10.0 15.0  
 277 23.6 19.1 28.7



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.96 min Scan# 2224  
 Delta R.T. -0.00 min  
 Lab File: BE099649.D  
 Acq: 17 May 2019 13:15

Tgt Ion:264 Resp: 21362  
 Ion Ratio Lower Upper  
 264 100  
 260 24.9 19.7 29.5  
 265 25.1 21.2 31.8





#35

Benzo(b)fluoranthene

Concen: 0.263 ng

RT: 23.18 min Scan# 2005

Delta R.T. 0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

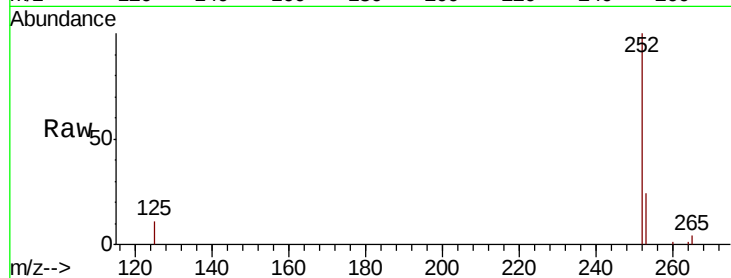
Tot Ion:252 Resp: 15736

Ion Ratio Lower Upper

252 100

253 23.8 19.1 28.7

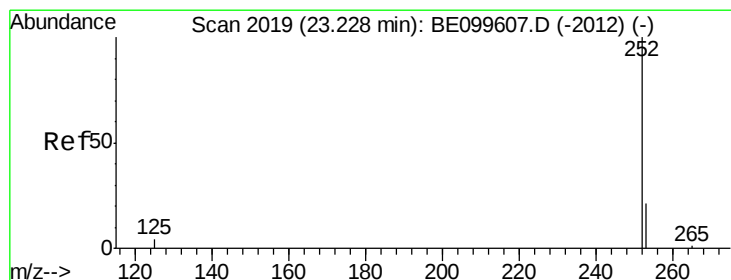
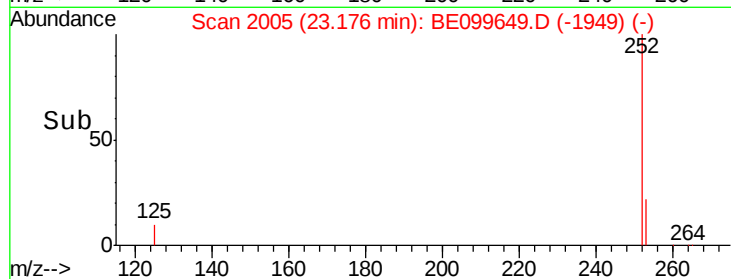
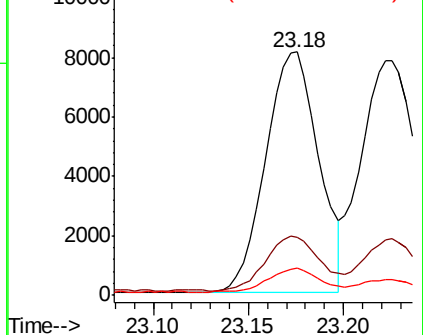
125 11.0 7.8 11.8



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



#36

Benzo(k)fluoranthene

Concen: 0.284 ng

RT: 23.23 min Scan# 2019

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

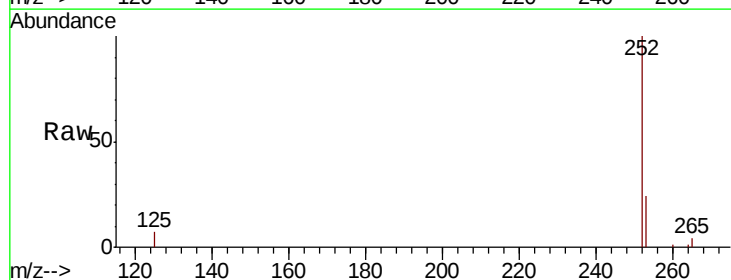
Tgt Ion:252 Resp: 16725

Ion Ratio Lower Upper

252 100

253 23.9 18.6 28.0

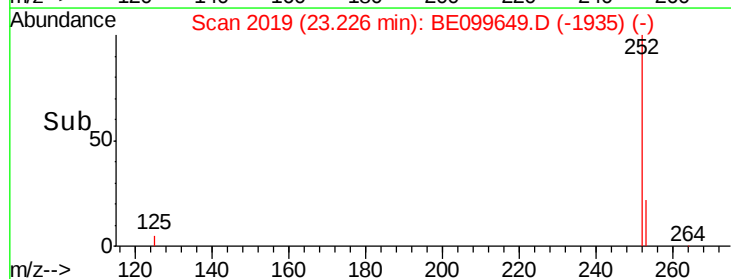
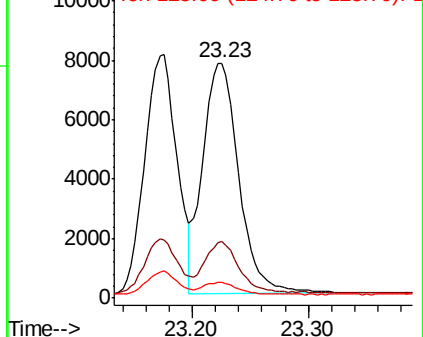
125 6.7 5.2 7.8

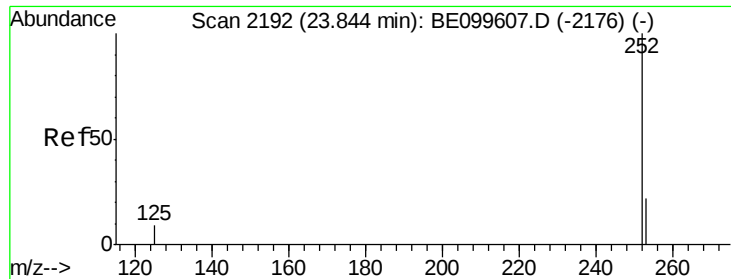


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.273 ng

RT: 23.84 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

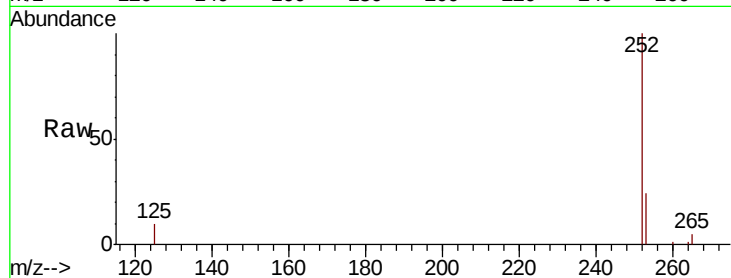
Tot Ion:252 Resp: 15805

Ion Ratio Lower Upper

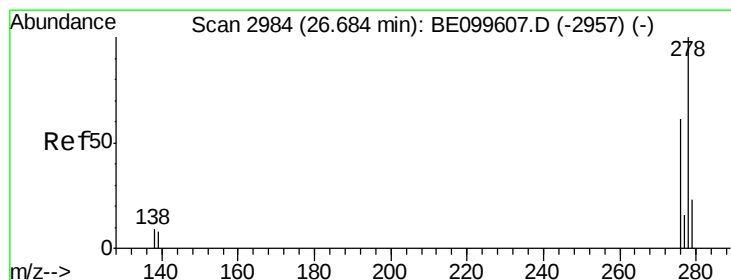
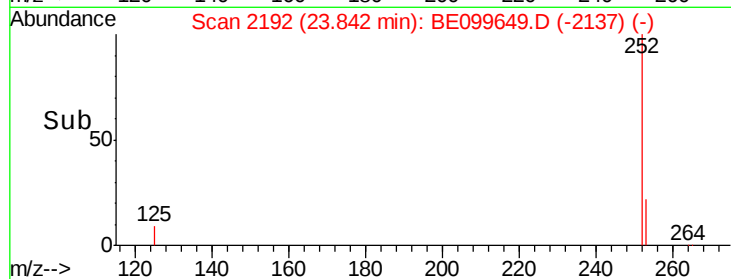
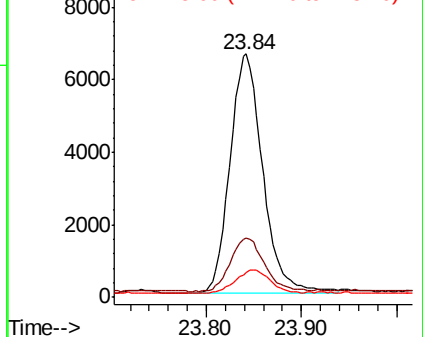
252 100

253 24.3 19.0 28.6

125 10.2 8.8 13.2



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: 0.257 ng

RT: 26.68 min Scan# 2983

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

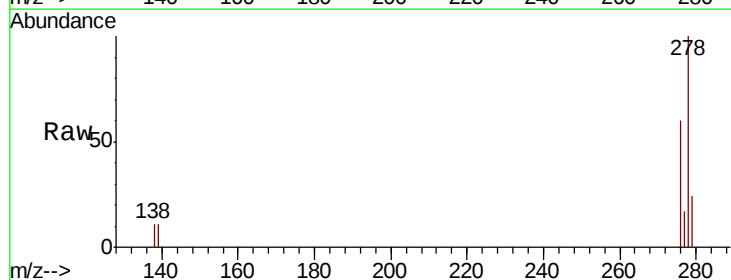
Tgt Ion:278 Resp: 15438

Ion Ratio Lower Upper

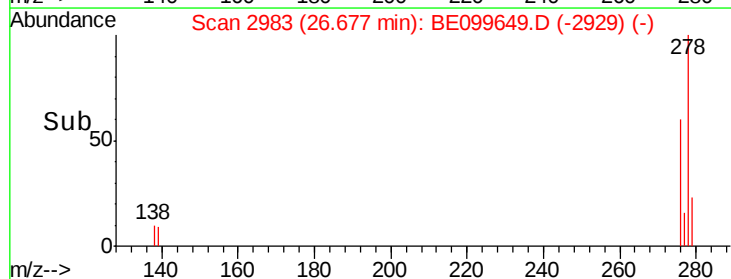
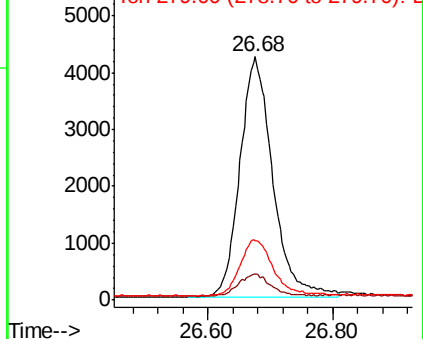
278 100

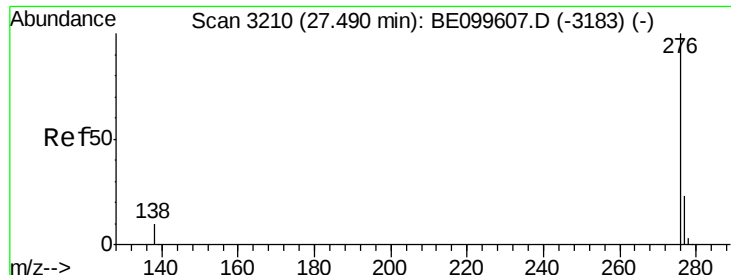
139 10.9 7.9 11.9

279 24.4 19.5 29.3



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: 0.266 ng

RT: 27.48 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE099649.D

Acq: 17 May 2019 13:15

Instrument :

BNA\_E

ClientSampleId :

FEBH-05(33-33.5)MS

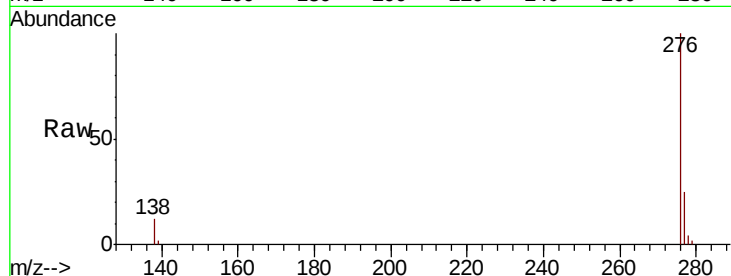
Tot Ion:276 Resp: 16032

Ion Ratio Lower Upper

276 100

277 24.6 19.3 28.9

138 11.8 9.1 13.7



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

