

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE011720\  
 Data File : BE101089.D  
 Acq On : 17 Jan 2020 17:45  
 Operator : JU  
 Sample : L1167-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PF-1

Quant Time: Jan 17 23:32:09 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE010820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 08 18:36:25 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 1106     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.50 | 136  | 4551     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.36 | 164  | 3956     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.09 | 188  | 12901    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.27 | 240  | 23567    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.68 | 264  | 23566    | 0.40 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.33  | 112  | 1452     | 0.58 | ng    | 0.00     |
| 5) Phenol-d6                | 6.90  | 99   | 1861     | 0.59 | ng    | -0.02    |
| 8) Nitrobenzene-d5          | 8.87  | 82   | 1276     | 0.39 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.11 | 152  | 3385     | 0.39 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.85 | 330  | 431      | 0.39 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.99 | 172  | 5749     | 0.38 | ng    | -0.02    |
| 25) Fluoranthene-d10        | 19.12 | 212  | 108521   | 0.61 | ng    | -0.01    |
| 29) Terphenyl-d14           | 19.72 | 244  | 23844    | 0.41 | ng    | -0.01    |

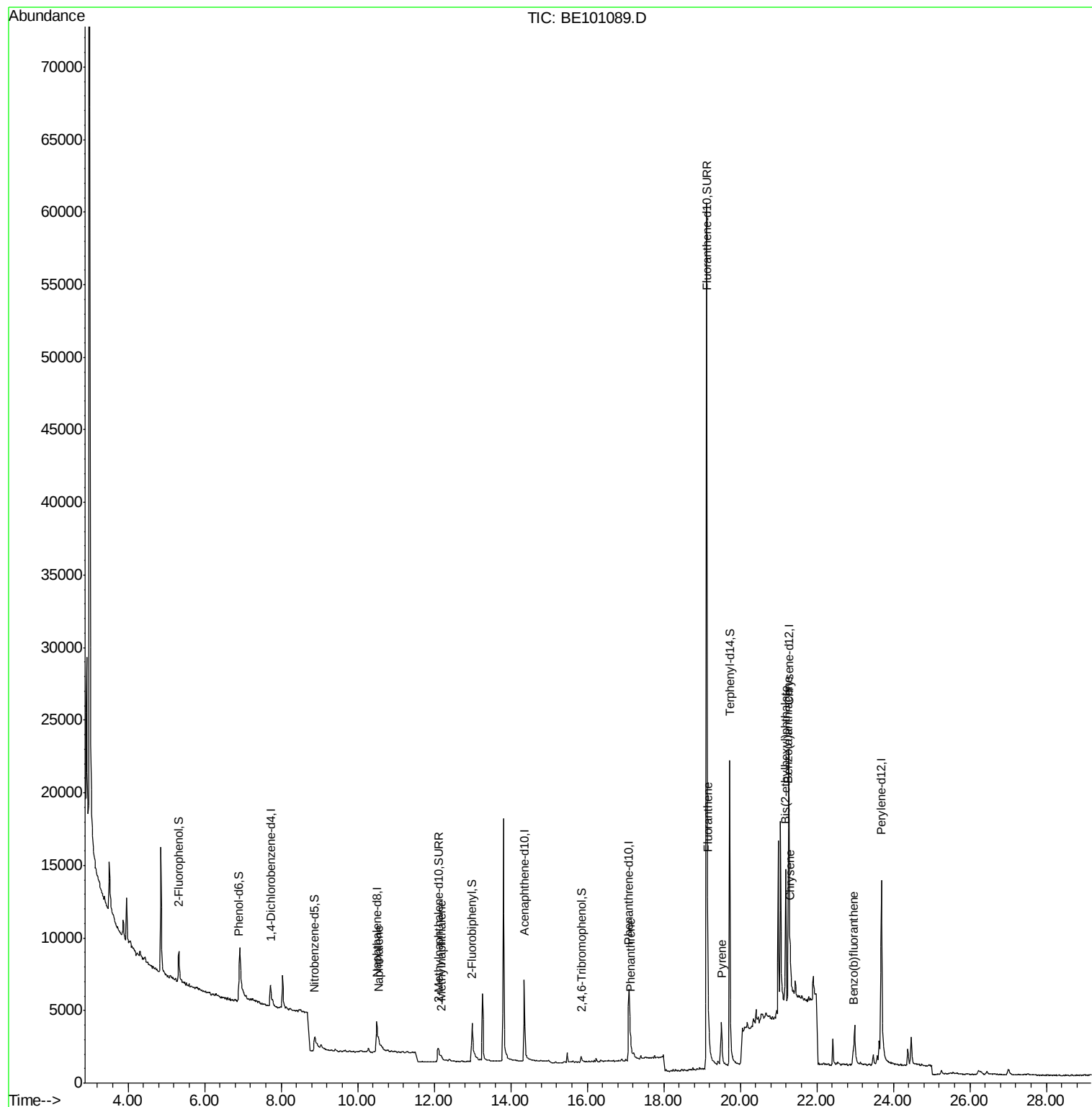
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Naphthalene                 | 10.55 | 128  | 1741     | 0.034 | ng    | # 80   |
| 12) 2-Methylnaphthalene        | 12.18 | 142  | 373      | 0.049 | ng    | # 84   |
| 23) Phenanthrene               | 17.13 | 178  | 999      | 0.028 | ng    | # 90   |
| 26) Fluoranthene               | 19.15 | 202  | 2756     | 0.062 | ng    | 100    |
| 28) Pyrene                     | 19.51 | 202  | 3493     | 0.040 | ng    | 97     |
| 30) Benzo(a)anthracene         | 21.26 | 228  | 2501     | 0.037 | ng    | # 84   |
| 31) Chrysene                   | 21.31 | 228  | 3086     | 0.031 | ng    | # 90   |
| 32) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 14173    | 0.126 | ng    | 99     |
| 35) Benzo(b)fluoranthene       | 22.95 | 252  | 1710     | 0.026 | ng    | # 39   |

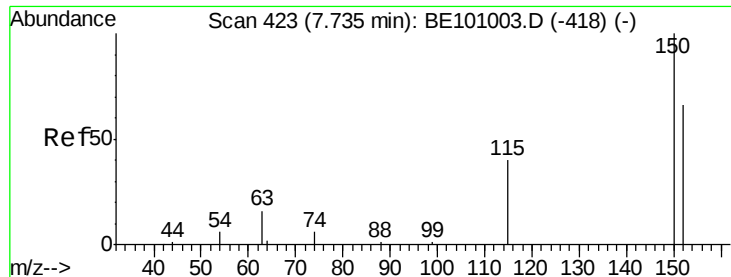
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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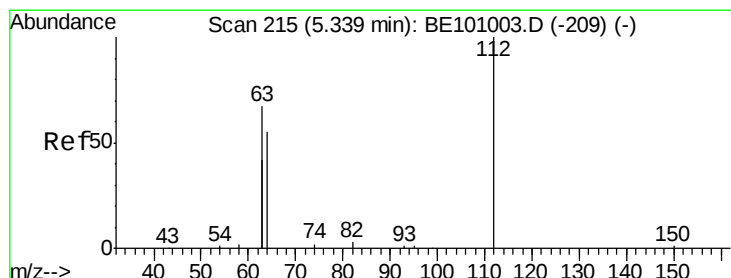
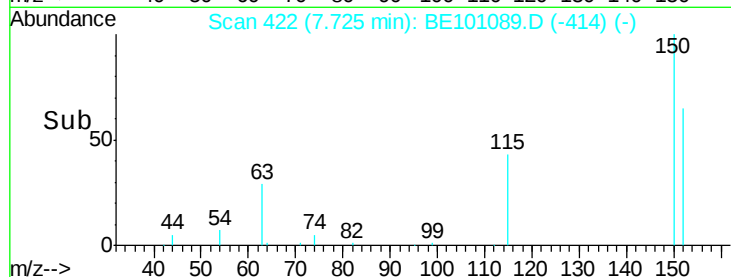
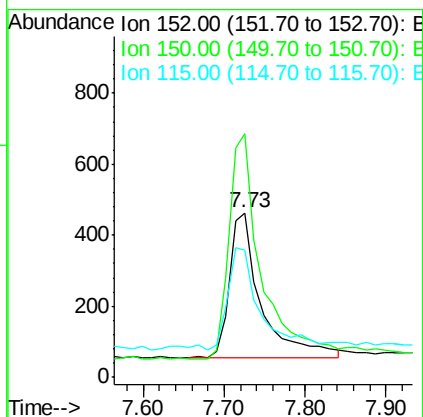
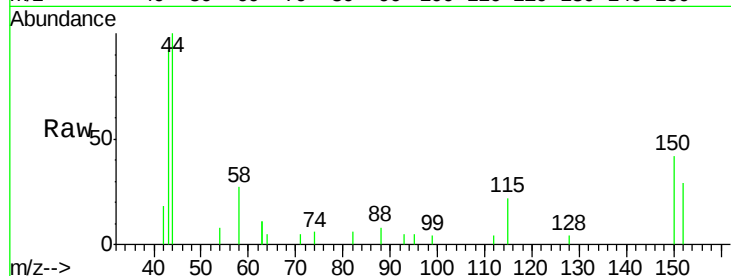


#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.73 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

Instrument :  
BNA\_E  
ClientSampleId :  
PF-1

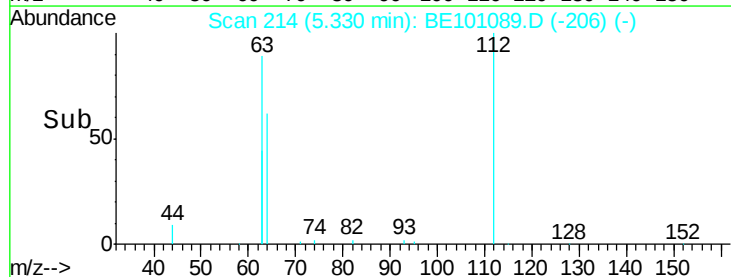
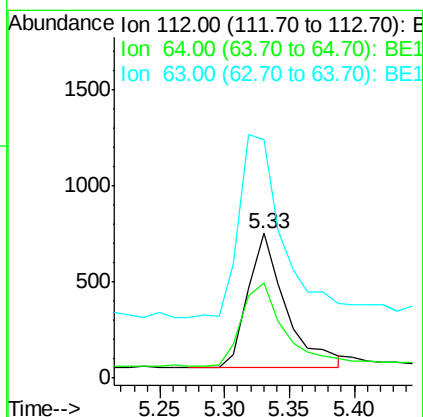
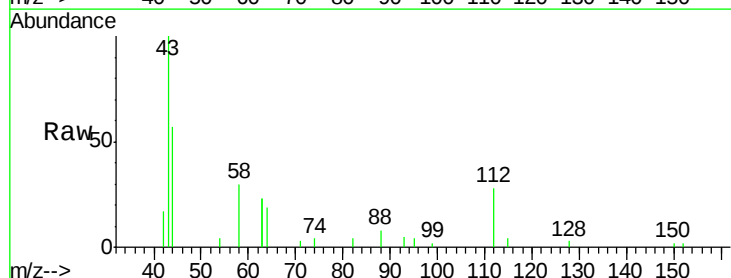
Tot Ion:152 Resp: 1106  
Ion Ratio Lower Upper  
152 100  
150 147.8 120.3 180.5  
115 77.4 51.7 77.5

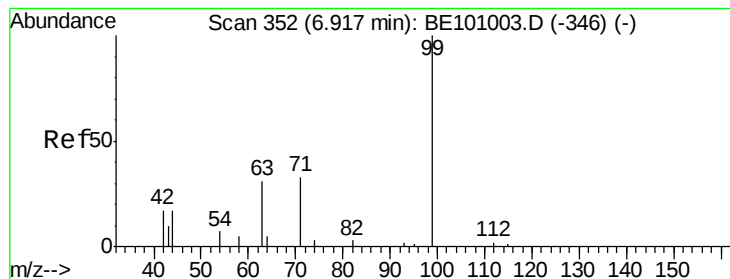


#4

2-Fluorophenol  
Concen: 0.583 ng  
RT: 5.33 min Scan# 214  
Delta R.T. -0.01 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

Tgt Ion:112 Resp: 1452  
Ion Ratio Lower Upper  
112 100  
64 68.2 53.6 80.4  
63 151.8 114.6 172.0





#5

Phenol-d6

Concen: 0.591 ng

RT: 6.90 min Scan# 350

Delta R.T. -0.02 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampleId :

PF-1

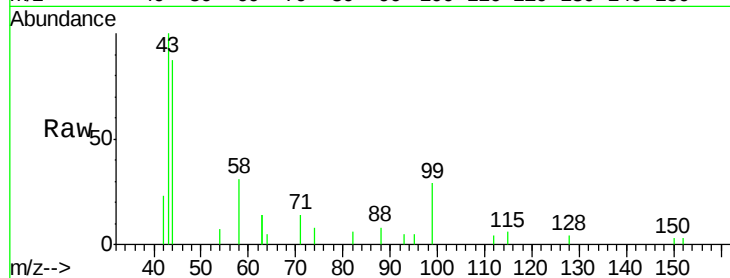
Tot Ion: 99 Resp: 1861

Ion Ratio Lower Upper

99 100

42 0.0 18.3 27.5#

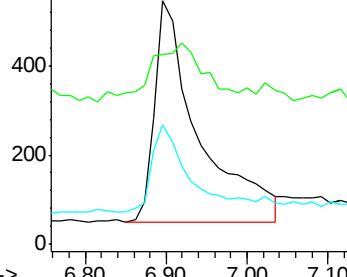
71 37.2 28.0 42.0



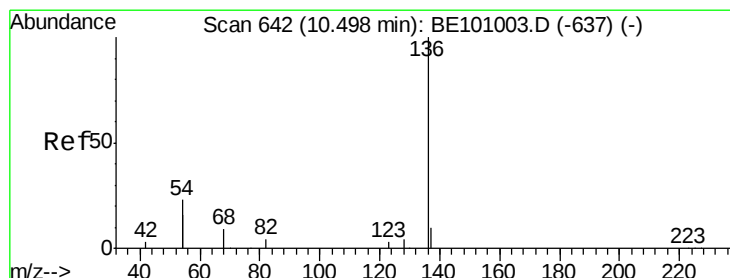
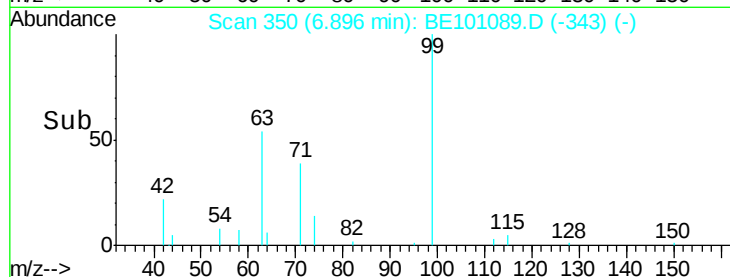
Abundance Ion 99.00 (98.70 to 99.70): BE1

Ion 42.00 (41.70 to 42.70): BE1

Ion 71.00 (70.70 to 71.70): BE1



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.50 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Tgt Ion: 136 Resp: 4551

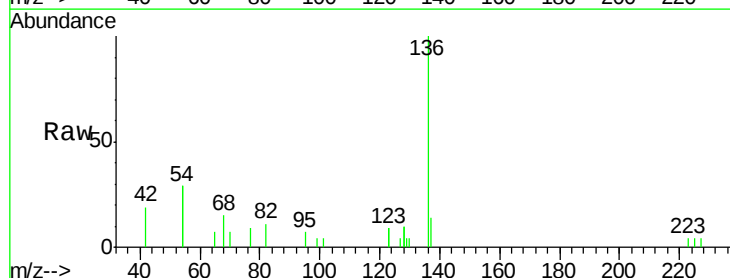
Ion Ratio Lower Upper

136 100

137 14.4 9.3 13.9#

54 58.8 36.8 55.2#

68 14.7 8.4 12.6#

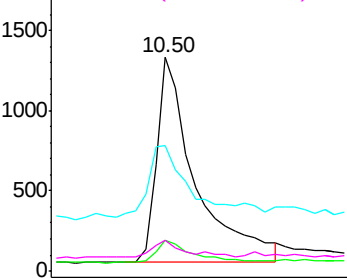


Abundance Ion 136.00 (135.70 to 136.70): BE1

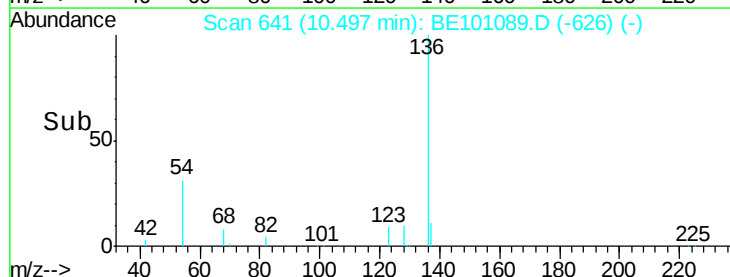
Ion 137.00 (136.70 to 137.70): BE1

Ion 54.00 (53.70 to 54.70): BE1

Ion 68.00 (67.70 to 68.70): BE1



Time-->





#8

Nitrobenzene-d5

Concen: 0.392 ng

RT: 8.87 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampled :

PF-1

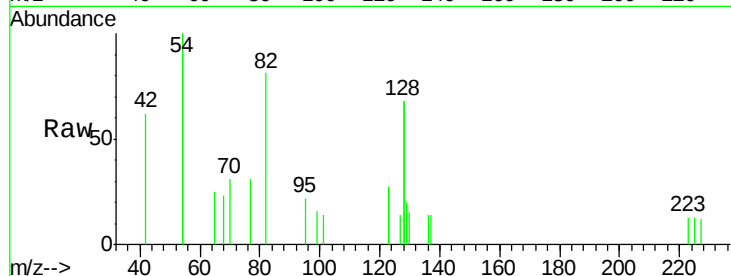
Tot Ion: 82 Resp: 1276

Ion Ratio Lower Upper

82 100

128 169.0 109.8 164.6#

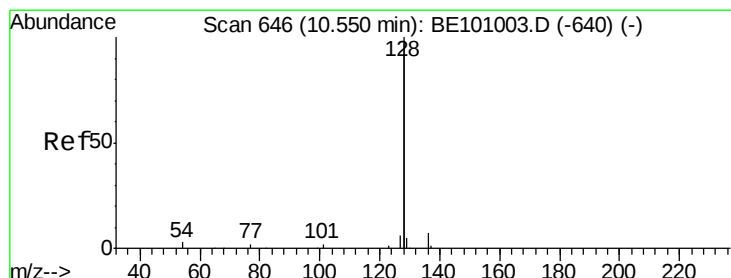
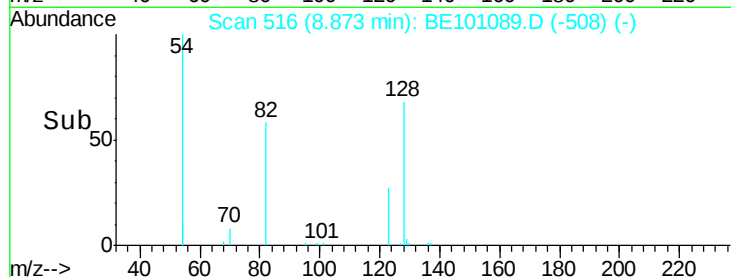
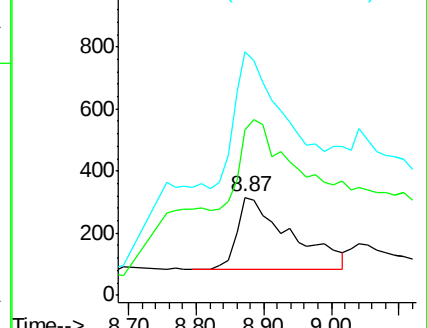
54 248.1 174.5 261.7



Abundance Ion 82.00 (81.70 to 82.70): BE1

Ion 128.00 (127.70 to 128.70): BE1

Ion 54.00 (53.70 to 54.70): BE1



#9

Naphthalene

Concen: 0.034 ng

RT: 10.55 min Scan# 645

Delta R.T. -0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

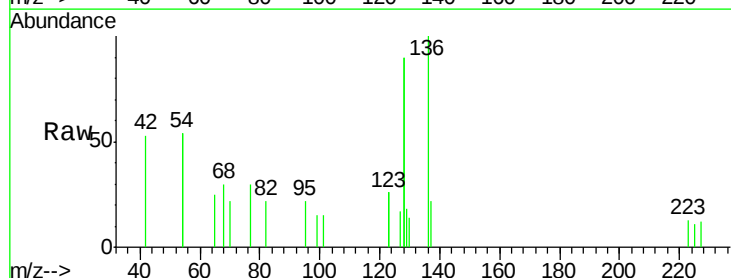
Tgt Ion: 128 Resp: 1741

Ion Ratio Lower Upper

128 100

129 10.0 2.3 3.5#

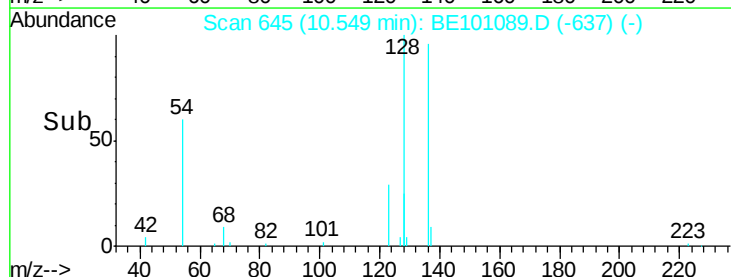
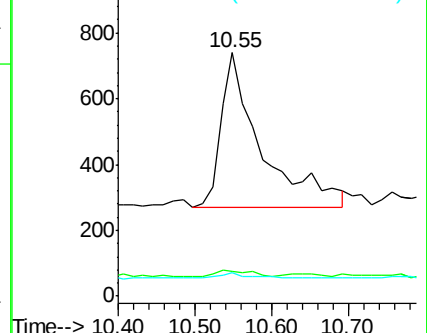
127 9.5 2.7 4.1#

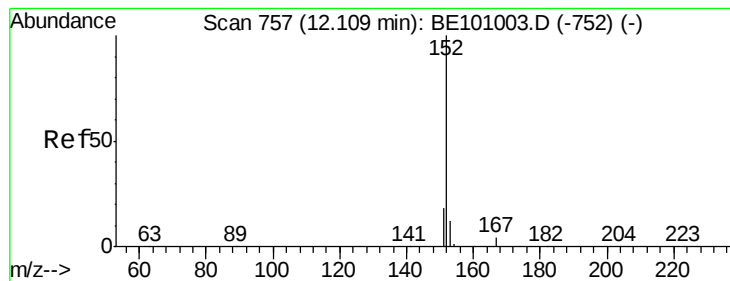


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.390 ng

RT: 12.11 min Scan# 756

Delta R.T. -0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampleId :

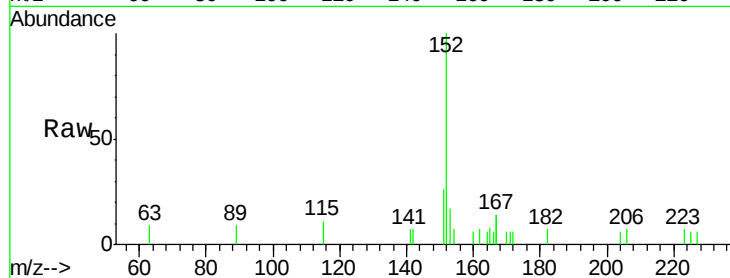
PF-1

Tot Ion:152 Resp: 3385

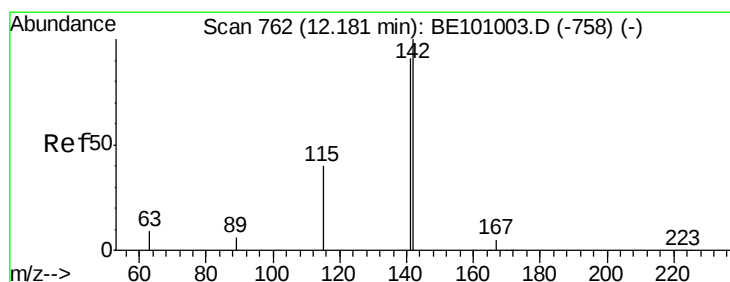
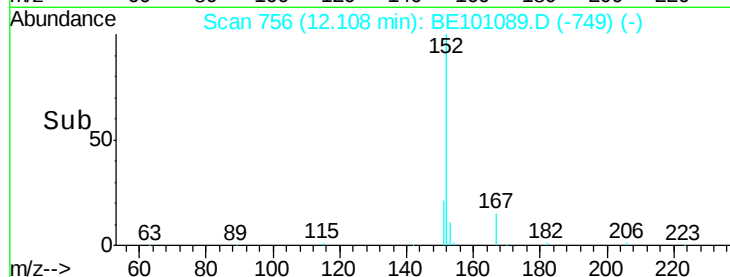
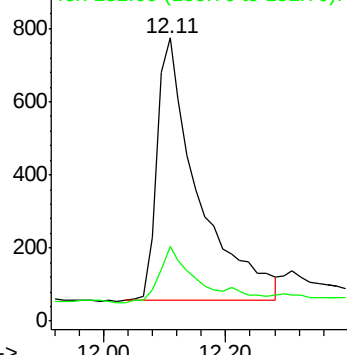
Ion Ratio Lower Upper

152 100

151 17.1 15.0 22.6



Abundance Ion 152.00 (151.70 to 152.70): E



#12

2-Methylnaphthalene

Concen: 0.049 ng

RT: 12.18 min Scan# 761

Delta R.T. -0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

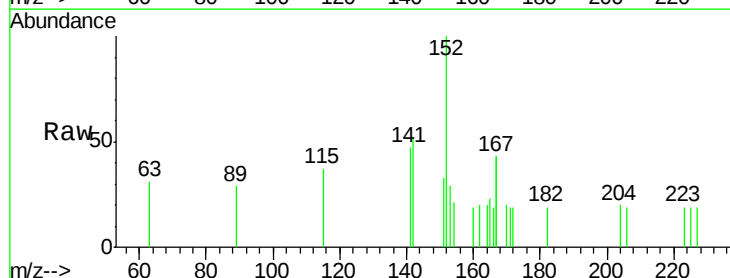
Tgt Ion:142 Resp: 373

Ion Ratio Lower Upper

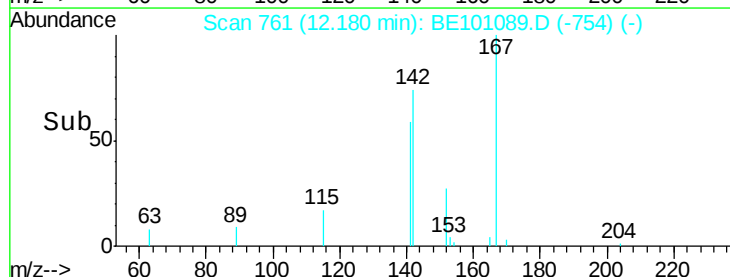
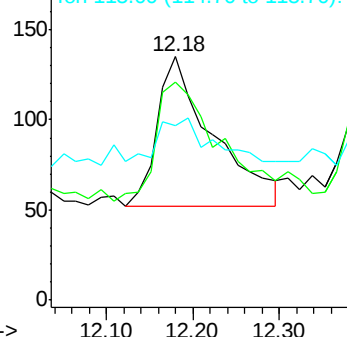
142 100

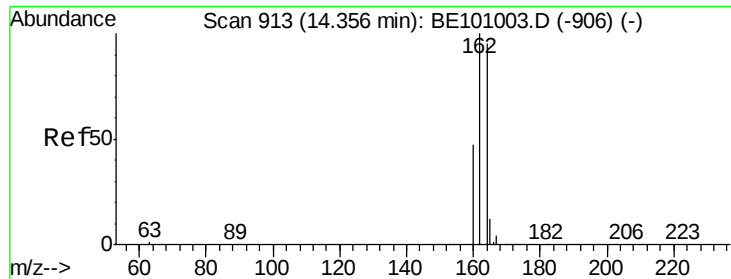
141 89.6 72.5 108.7

115 71.9 33.0 49.6#



Abundance Ion 142.00 (141.70 to 142.70): E

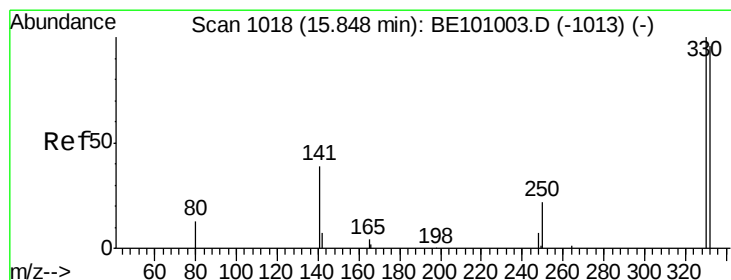
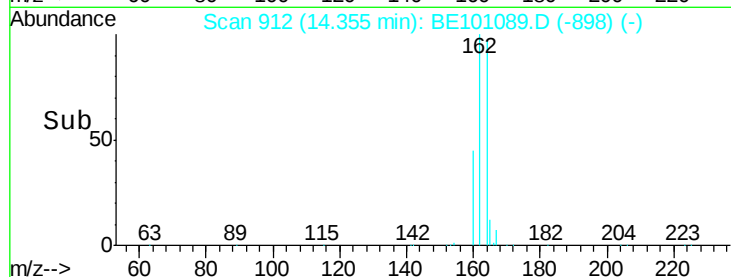
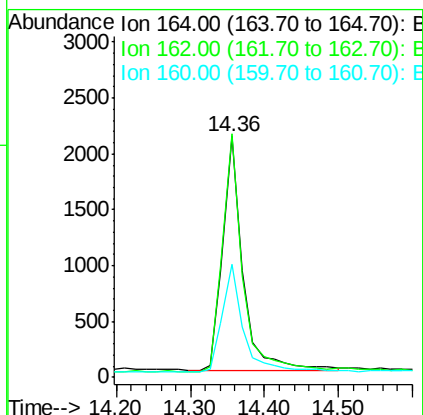
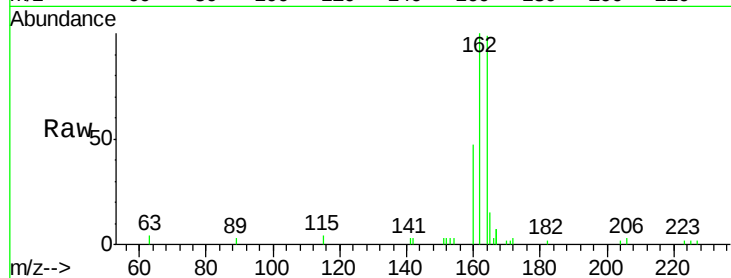




#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.36 min Scan# 912  
 Delta R.T. -0.00 min  
 Lab File: BE101089.D  
 Acq: 17 Jan 2020 17:45

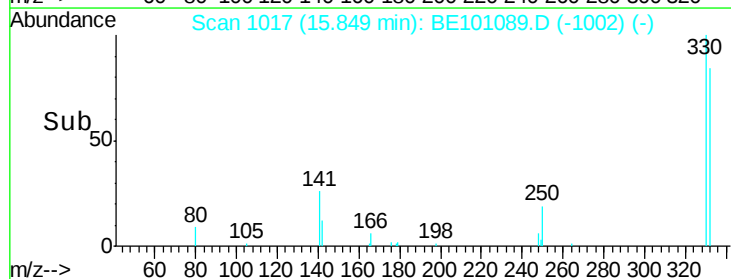
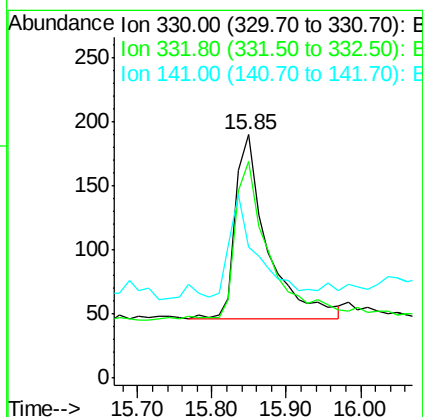
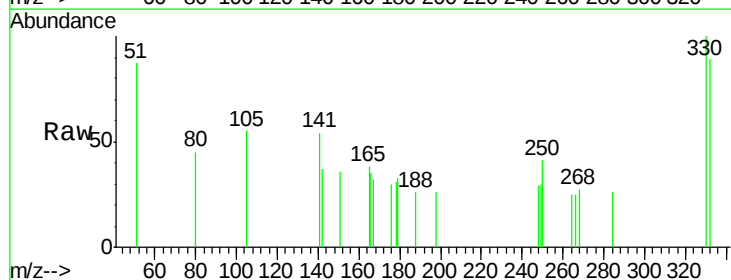
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PF-1

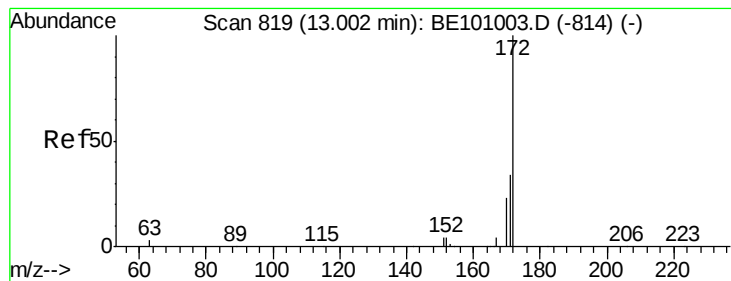
Tot Ion:164 Resp: 3956  
 Ion Ratio Lower Upper  
 164 100  
 162 101.0 84.1 126.1  
 160 47.1 40.4 60.6



#14  
 2,4,6-Tribromophenol  
 Concen: 0.386 ng  
 RT: 15.85 min Scan# 1017  
 Delta R.T. 0.00 min  
 Lab File: BE101089.D  
 Acq: 17 Jan 2020 17:45

Tgt Ion:330 Resp: 431  
 Ion Ratio Lower Upper  
 330 100  
 332 88.2 78.4 117.6  
 141 48.5 37.0 55.4

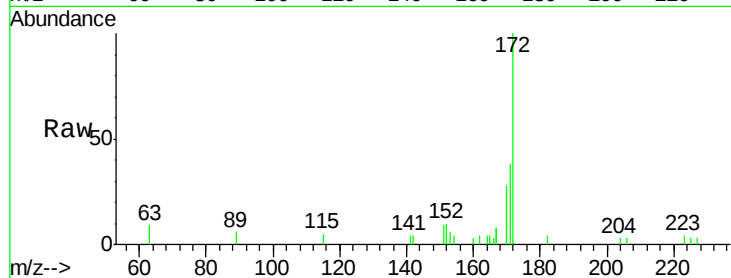




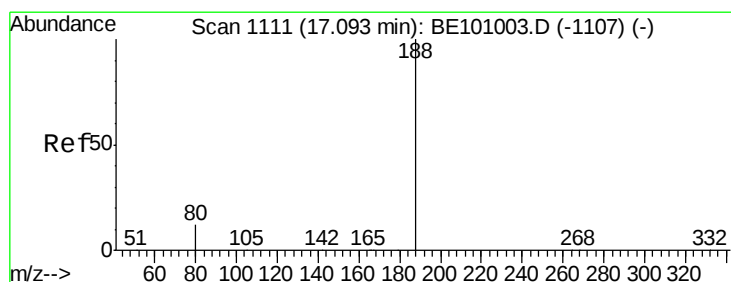
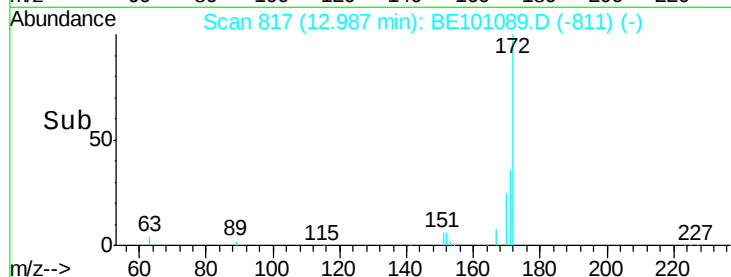
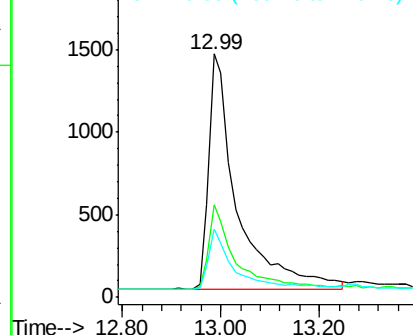
#15  
2-Fluorobiphenyl  
Concen: 0.383 ng  
RT: 12.99 min Scan# 817  
Delta R.T. -0.02 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

Instrument :  
BNA\_E  
ClientSampleId :  
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Tot Ion:172 Resp: 5749  
Ion Ratio Lower Upper  
172 100  
171 38.3 28.2 42.2  
170 27.8 18.9 28.3

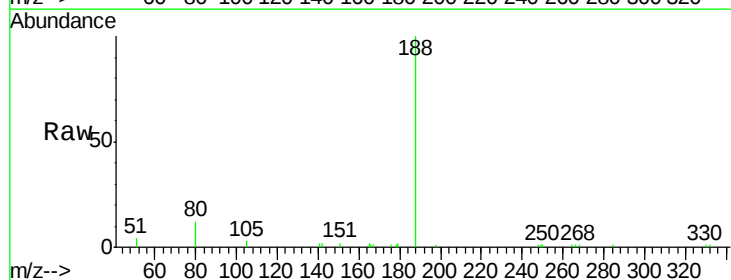


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

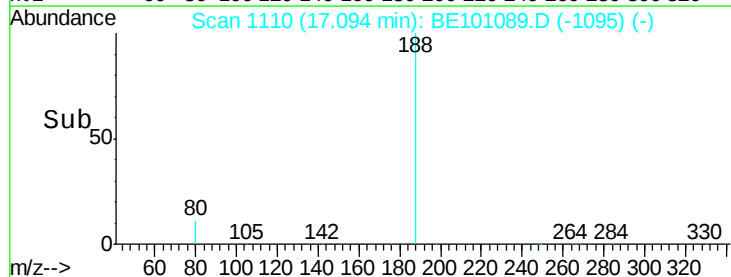
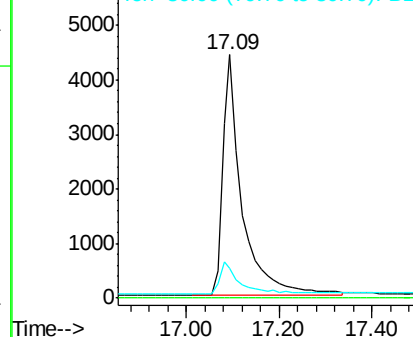


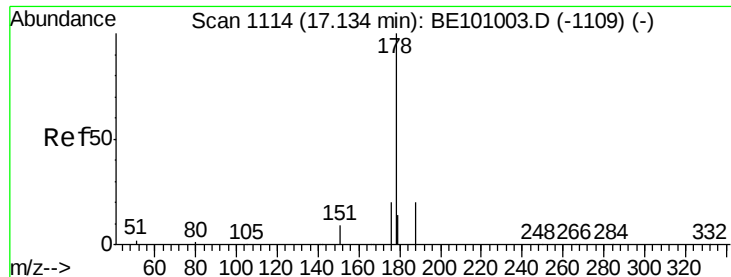
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.09 min Scan# 1110  
Delta R.T. 0.00 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

Tgt Ion:188 Resp: 12901  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.4 10.8 16.2



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE1  
Ion 80.00 (79.70 to 80.70): BE1





#23

Phenanthrene

Concen: 0.028 ng

RT: 17.13 min Scan# 1113

Delta R.T. 0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampleId :

PF-1

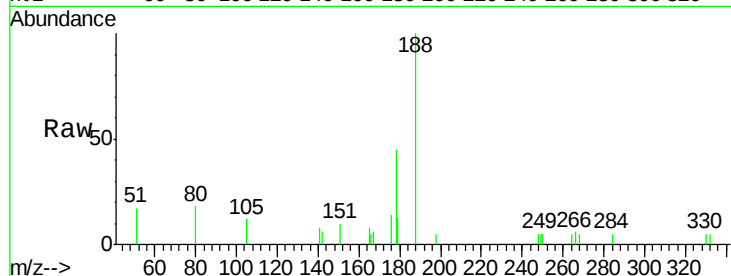
Tot Ion:178 Resp: 999

Ion Ratio Lower Upper

178 100

176 24.7 15.7 23.5#

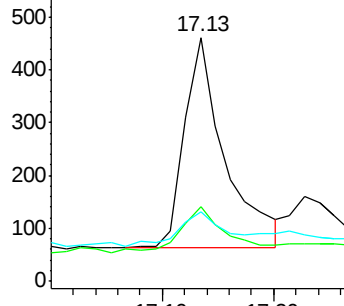
179 18.0 12.0 18.0#



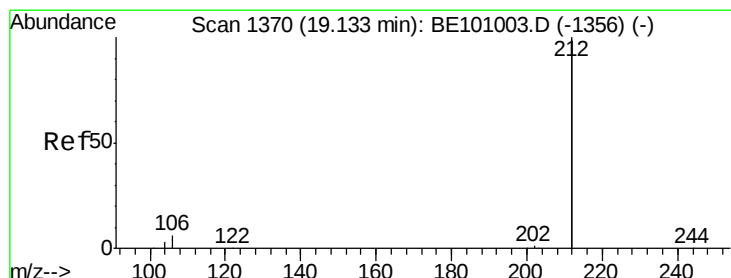
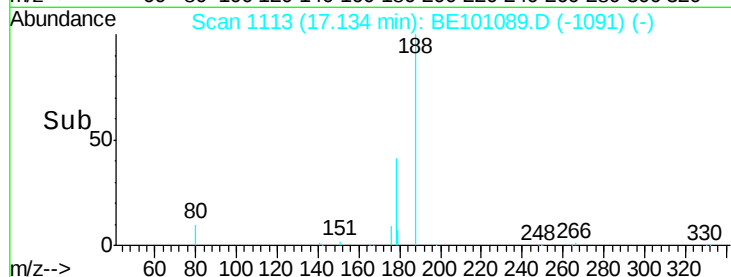
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#25

Fluoranthene-d10

Concen: 0.606 ng

RT: 19.12 min Scan# 1367

Delta R.T. -0.01 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

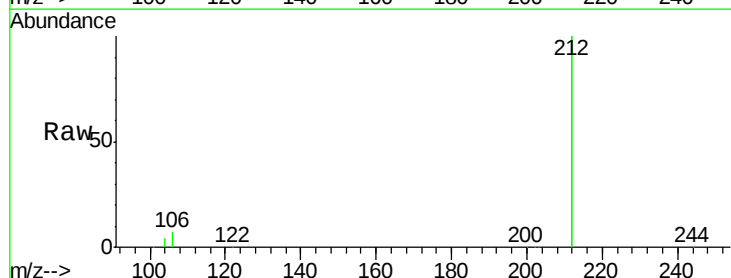
Tgt Ion:212 Resp: 108521

Ion Ratio Lower Upper

212 100

106 3.4 2.6 3.8

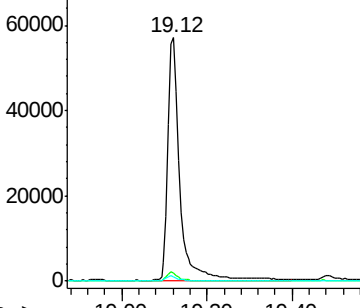
104 1.9 1.4 2.0



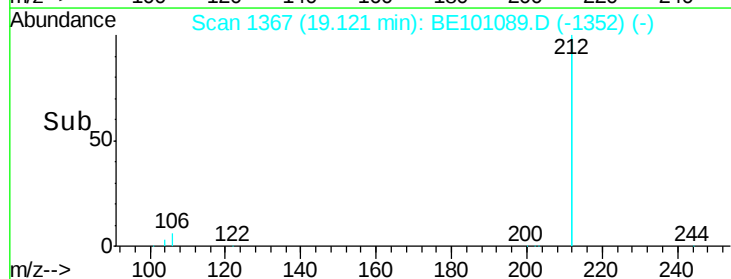
Abundance Ion 212.00 (211.70 to 212.70): E

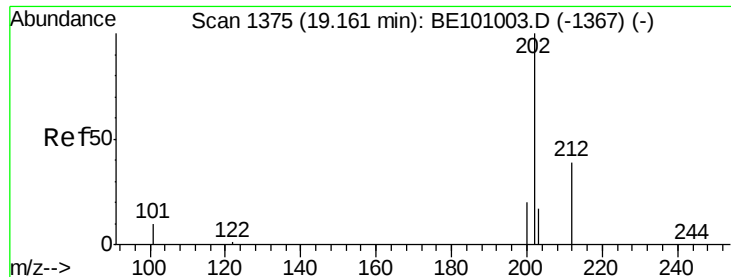
Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



Time-->

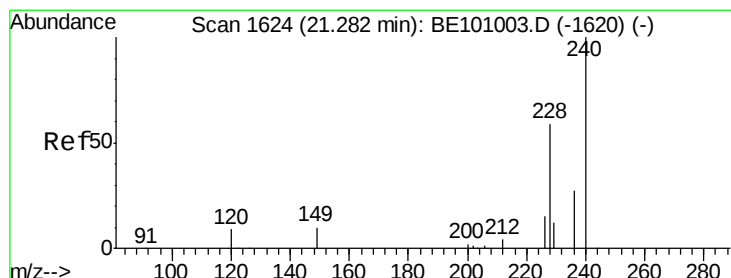
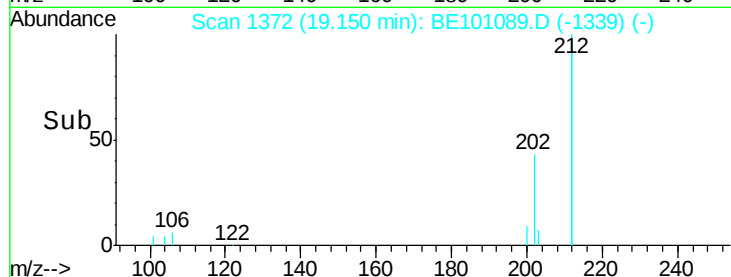
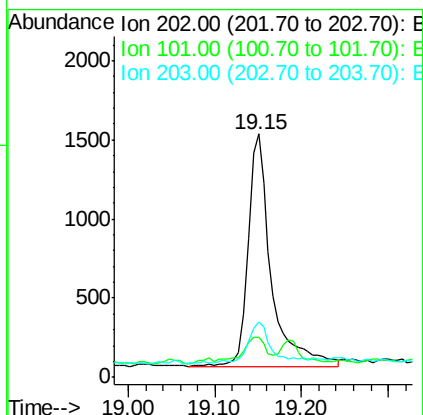
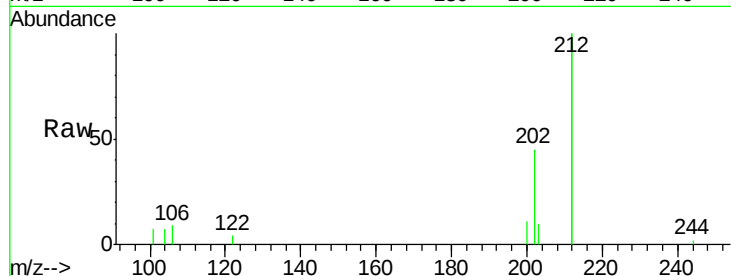




#26  
Fluoranthene  
Concen: 0.062 ng  
RT: 19.15 min Scan# 1372  
Delta R.T. -0.01 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

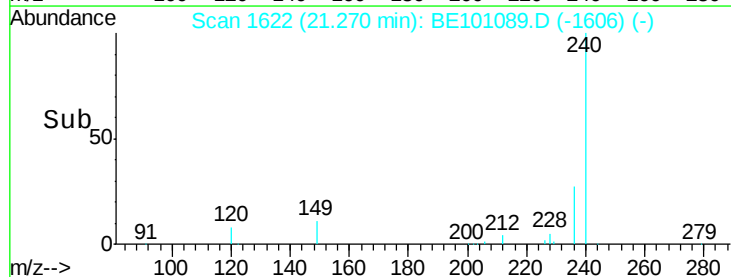
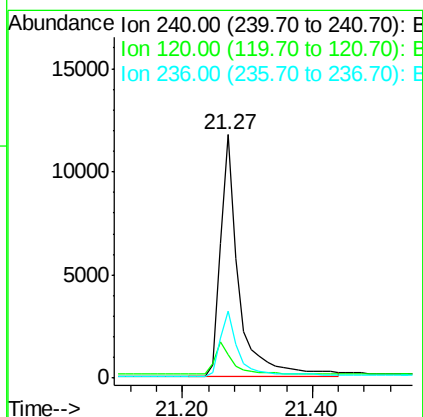
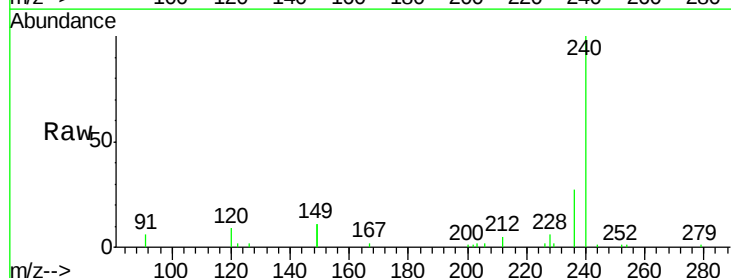
Instrument :  
BNA\_E  
ClientSampleId :  
PF-1

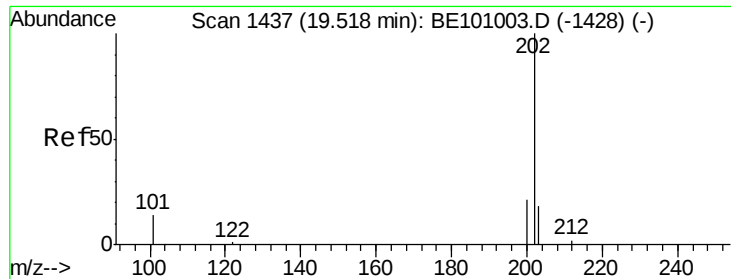
Tot Ion:202 Resp: 2756  
Ion Ratio Lower Upper  
202 100  
101 11.8 9.6 14.4  
203 17.0 13.8 20.6



#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.27 min Scan# 1622  
Delta R.T. -0.01 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

Tgt Ion:240 Resp: 23567  
Ion Ratio Lower Upper  
240 100  
120 9.4 8.6 13.0  
236 27.2 22.2 33.4

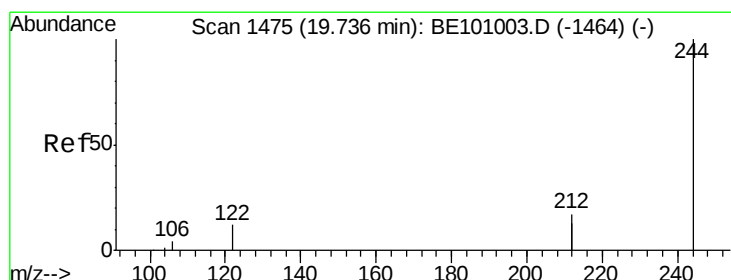
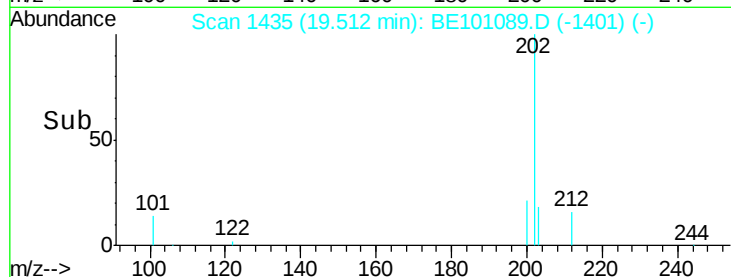
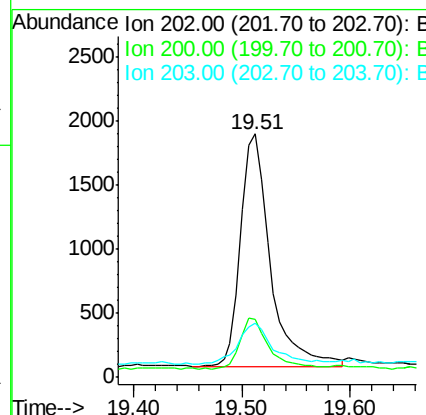
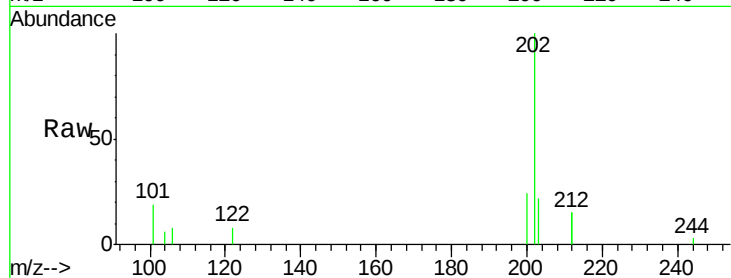




#28  
Pvrene  
Concen: 0.040 ng  
RT: 19.51 min Scan# 1435  
Delta R.T. -0.01 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

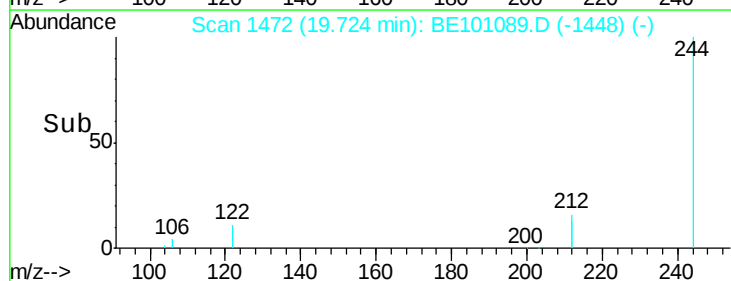
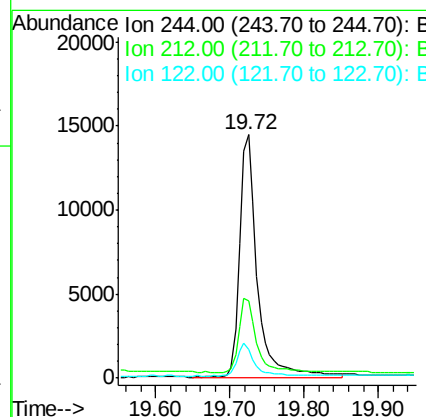
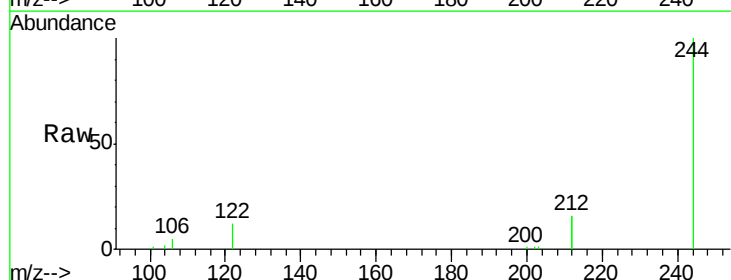
Instrument :  
BNA\_E  
ClientSampleId :  
PF-1

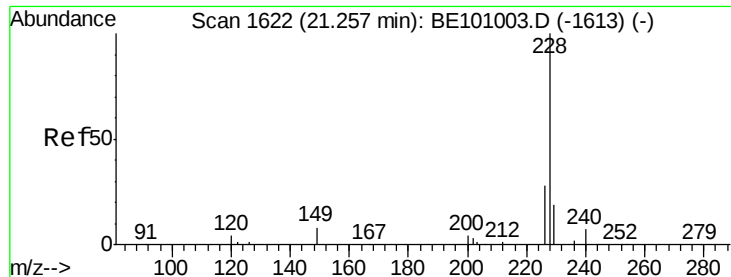
Tot Ion:202 Resp: 3493  
Ion Ratio Lower Upper  
202 100  
200 21.0 17.0 25.4  
203 20.2 13.8 20.6



#29  
Terphenyl-d14  
Concen: 0.412 ng  
RT: 19.72 min Scan# 1472  
Delta R.T. -0.01 min  
Lab File: BE101089.D  
Acq: 17 Jan 2020 17:45

Tgt Ion:244 Resp: 23844  
Ion Ratio Lower Upper  
244 100  
212 31.8 27.2 40.8  
122 11.7 9.8 14.8





#30

Benzo(a)anthracene

Concen: 0.037 ng

RT: 21.26 min Scan# 1621

Delta R.T. 0.00 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampleId :

PF-1

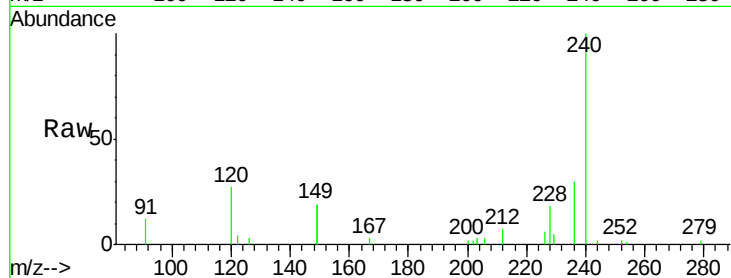
Tot Ion:228 Resp: 2501

Ion Ratio Lower Upper

228 100

226 33.9 22.7 34.1

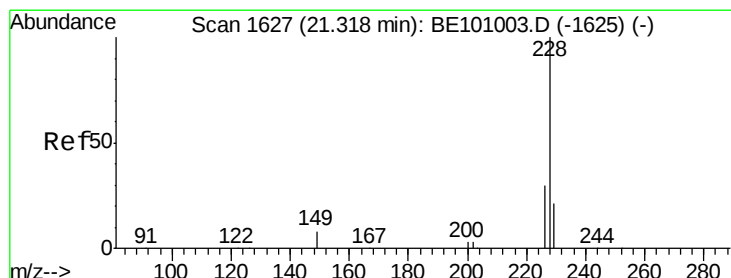
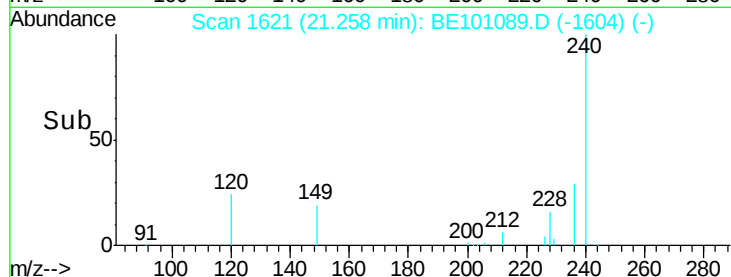
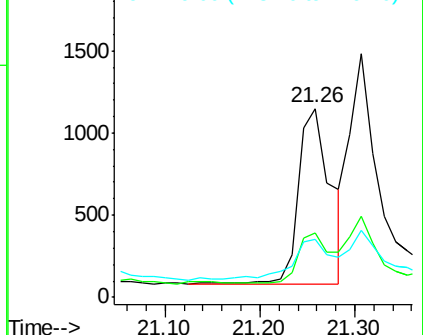
229 30.5 15.5 23.3#



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: 0.031 ng

RT: 21.31 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

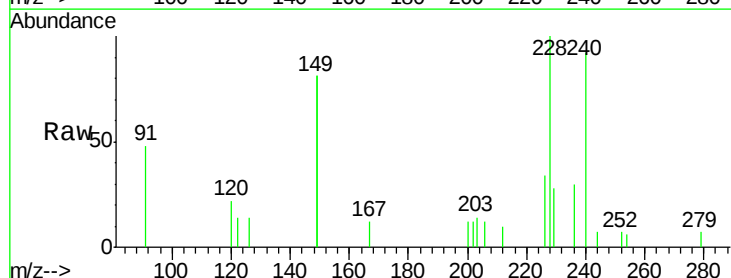
Tgt Ion:228 Resp: 3086

Ion Ratio Lower Upper

228 100

226 33.6 23.5 35.3

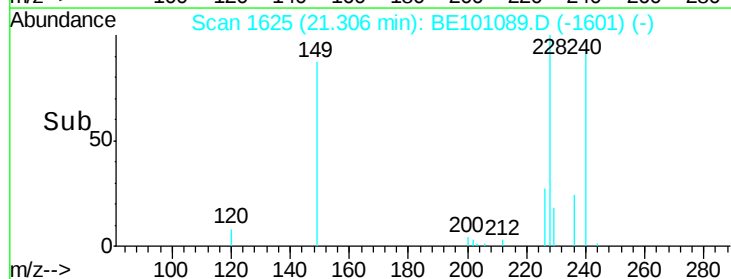
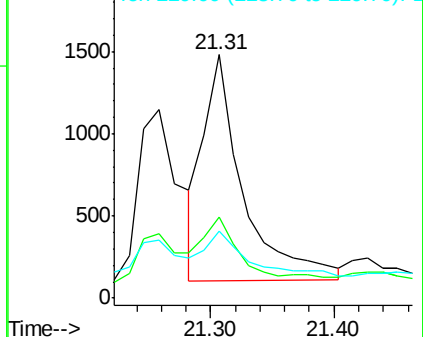
229 27.6 16.7 25.1#

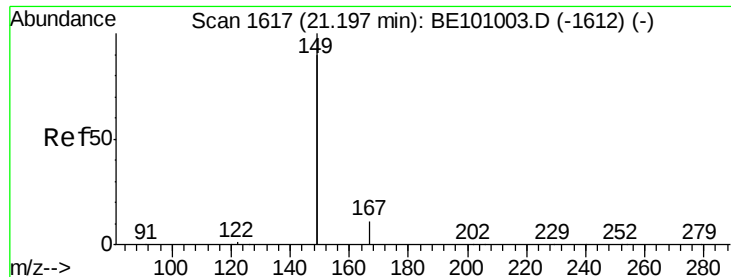


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.126 ng

RT: 21.19 min Scan# 1615

Delta R.T. -0.01 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampleId :

PF-1

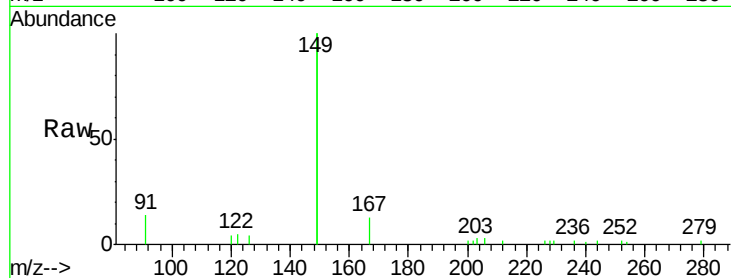
Tot Ion:149 Resp: 14173

Ion Ratio Lower Upper

149 100

167 6.8 5.2 7.8

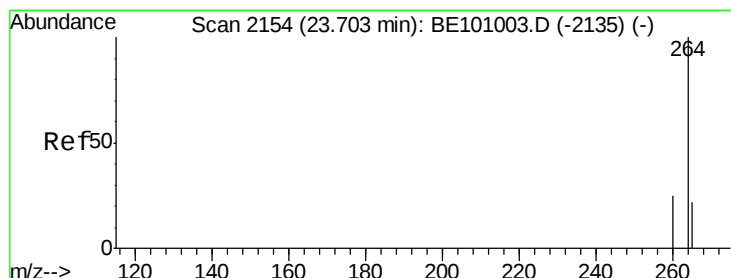
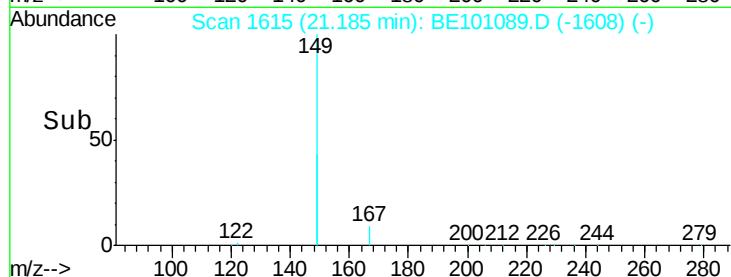
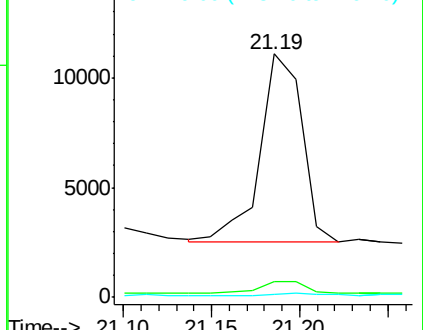
279 0.8 0.8 1.2



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.68 min Scan# 2148

Delta R.T. -0.02 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

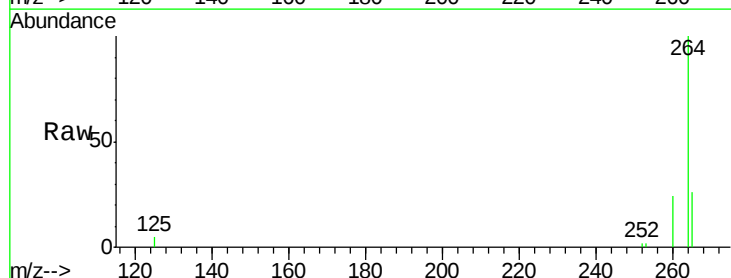
Tgt Ion:264 Resp: 23566

Ion Ratio Lower Upper

264 100

260 23.8 20.3 30.5

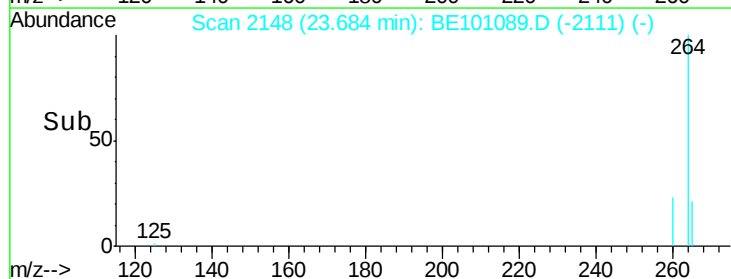
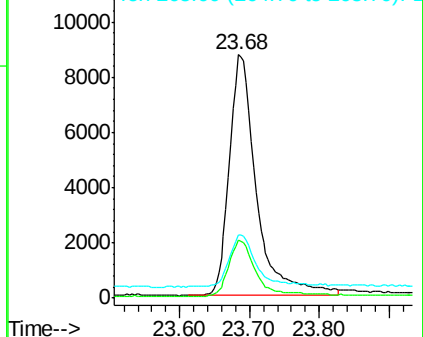
265 25.9 27.0 40.4#

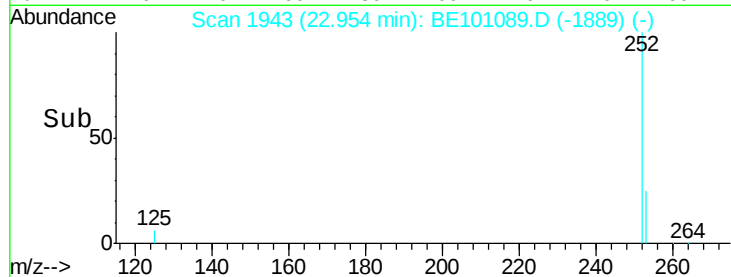
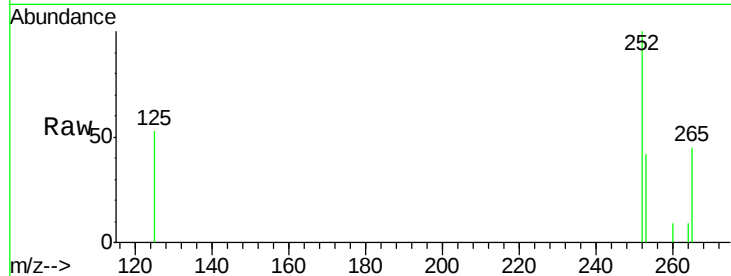
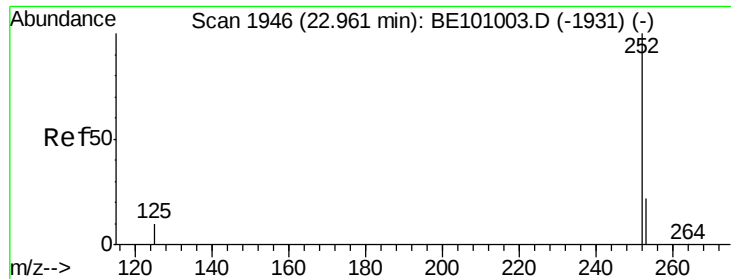


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.026 ng

RT: 22.95 min Scan# 1943

Delta R.T. -0.01 min

Lab File: BE101089.D

Acq: 17 Jan 2020 17:45

Instrument :

BNA\_E

ClientSampleId :

PF-1

Tot Ion: 252 Resp: 1710

Ion Ratio Lower Upper

252 100

253 41.9 18.5 27.7#

125 52.8 9.5 14.3#

