

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM062919\  
 Data File : BM021287.D  
 Acq On : 30 Jun 2019 06:19  
 Operator : HP/JU  
 Sample : K3590-10  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C5BA9

Quant Time: Jul 01 00:28:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Jun 30 03:35:19 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 281073   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.55 | 136  | 1269703  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.40 | 164  | 836221   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.15 | 188  | 1950264  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.33 | 240  | 1430772  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.61 | 264  | 1523247  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

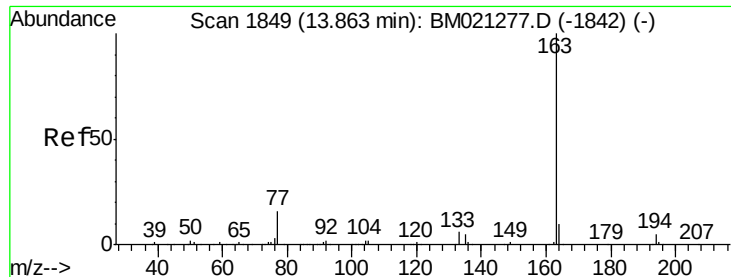
|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.28  | 96  | 17222   | 2.91  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.93  | 99  | 416797  | 17.04 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 238413  | 16.36 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.29  | 132 | 347312  | 17.47 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.46  | 113 | 360852  | 17.67 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.92  | 128 | 188825  | 18.31 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.63  | 143 | 230053  | 20.10 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 439084  | 18.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.69 | 131 | 490855  | 20.22 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.82 | 166 | 1447455 | 19.16 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.09 | 160 | 1715170 | 18.54 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.62 | 143 | 182891  | 14.88 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.40 | 176 | 1266476 | 19.27 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 145699  | 12.15 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.25 | 188 | 1930215 | 19.05 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.54 | 212 | 1966316 | 22.90 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.46 | 264 | 1746870 | 19.44 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Qvalue |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| 44) Dimethylphthalate      | 13.86 | 163 | 221071  | 3.214  | ng/ul  | 100 |
| 69) Phenanthrene           | 17.19 | 178 | 752718  | 6.979  | ng/ul  | 99  |
| 71) Anthracene             | 17.28 | 178 | 112424  | 1.023  | ng/ul  | 99  |
| 76) Fluoranthene           | 19.21 | 202 | 1414561 | 12.138 | ng/ul  | 99  |
| 79) Pyrene                 | 19.57 | 202 | 1150795 | 11.377 | ng/ul  | 99  |
| 82) Benzo(a)anthracene     | 21.32 | 228 | 514862  | 5.278  | ng/ul  | 98  |
| 84) Chrysene               | 21.37 | 228 | 573662  | 6.279  | ng/ul  | 99  |
| 87) Benzo(b)fluoranthene   | 22.92 | 252 | 778927  | 8.073  | ng/ul  | 98  |
| 88) Benzo(k)fluoranthene   | 22.92 | 252 | 778927  | 8.391  | ng/ul  | 98  |
| 90) Benzo(a)pyrene         | 23.51 | 252 | 473869  | 5.218  | ng/ul  | 99  |
| 91) Indeno(1,2,3-cd)pyrene | 25.89 | 276 | 359376  | 3.360  | ng/ul  | 98  |
| 92) Dibenzo(a,h)anthracene | 25.90 | 278 | 92664   | 1.030  | ng/ul# | 90  |
| 93) Benzo(g,h,i)perylene   | 26.60 | 276 | 320145  | 3.635  | ng/ul  | 98  |

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





#44

Dimethylphthalate

Concen: 3.214 ng/ul

RT: 13.86 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

Instrument :

BNA\_M

ClientSampleId :

C5BA9

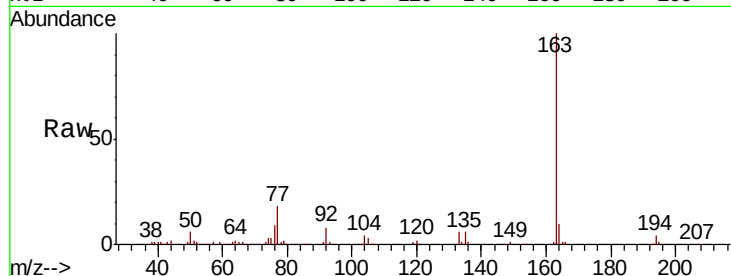
Tgt Ion:163 Resp: 221071

Ion Ratio Lower Upper

163 100

194 4.2 3.4 5.2

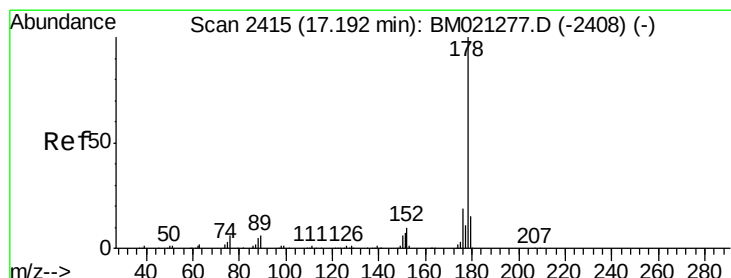
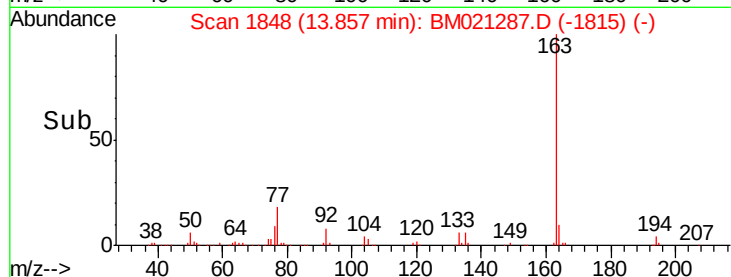
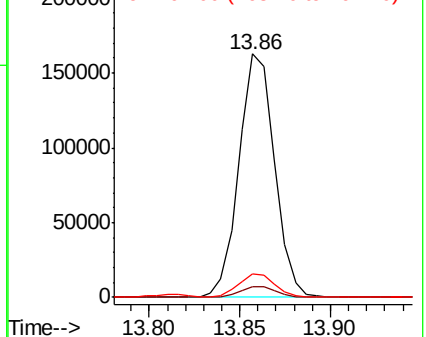
164 9.7 7.7 11.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#69

Phenanthrene

Concen: 6.979 ng/ul

RT: 17.19 min Scan# 2415

Delta R.T. 0.00 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

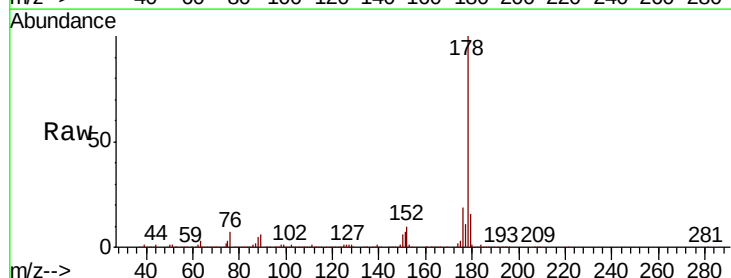
Tgt Ion:178 Resp: 752718

Ion Ratio Lower Upper

178 100

179 15.7 11.8 17.8

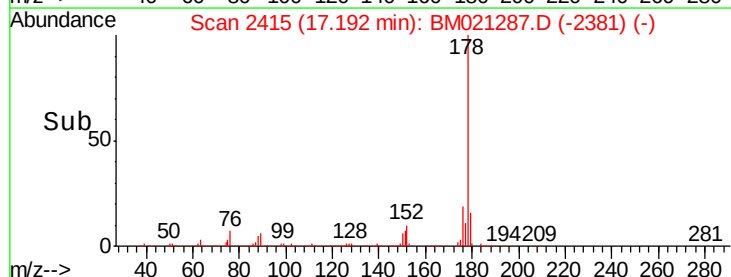
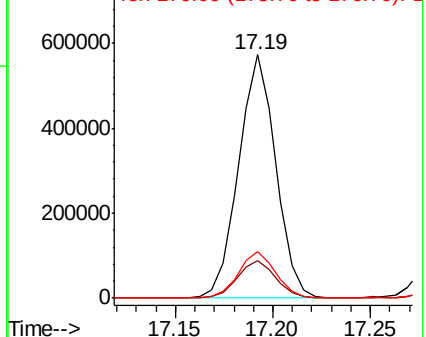
176 19.0 15.0 22.6

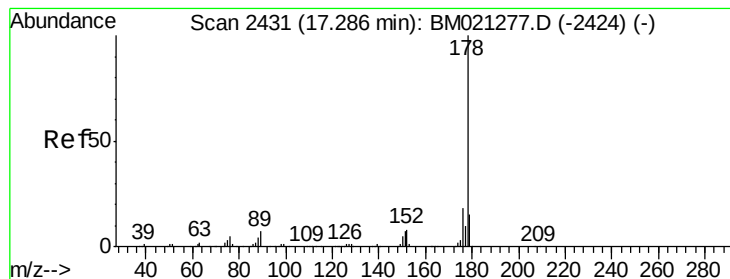


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 1.023 ng/ul

RT: 17.28 min Scan# 2430

Delta R.T. -0.01 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

Instrument :

BNA\_M

ClientSampleId :

C5BA9

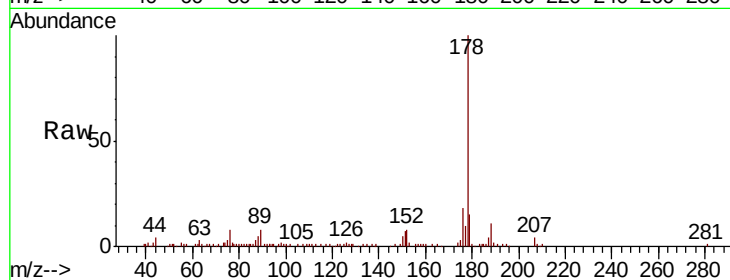
Tgt Ion:178 Resp: 112424

Ion Ratio Lower Upper

178 100

179 14.9 12.5 18.7

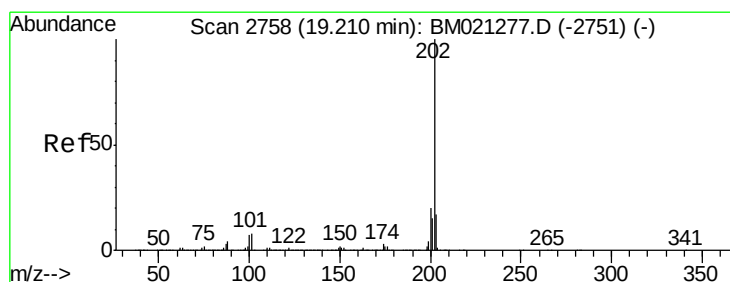
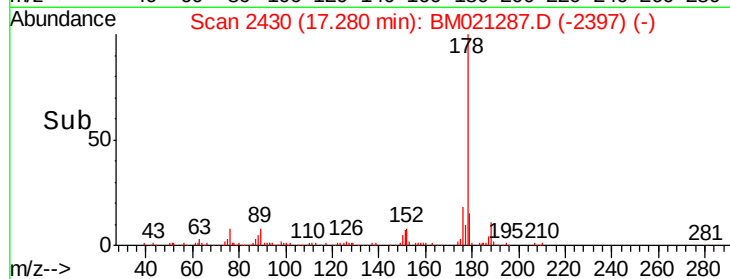
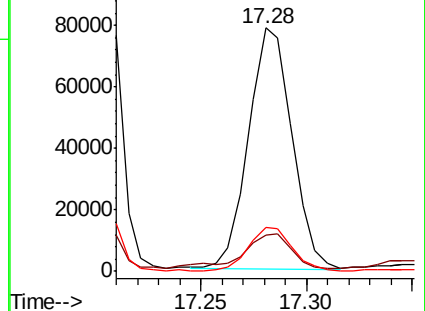
176 18.1 14.6 21.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#76

Fluoranthene

Concen: 12.138 ng/ul

RT: 19.21 min Scan# 2758

Delta R.T. 0.00 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

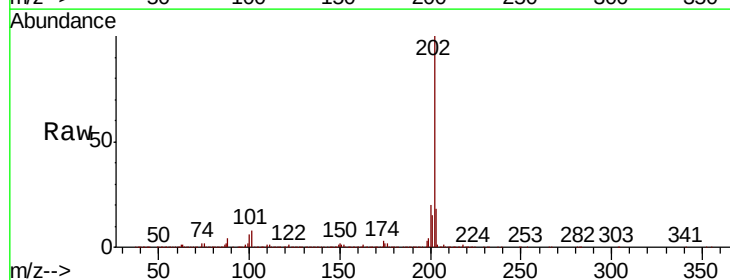
Tgt Ion:202 Resp: 1414561

Ion Ratio Lower Upper

202 100

101 8.1 6.7 10.1

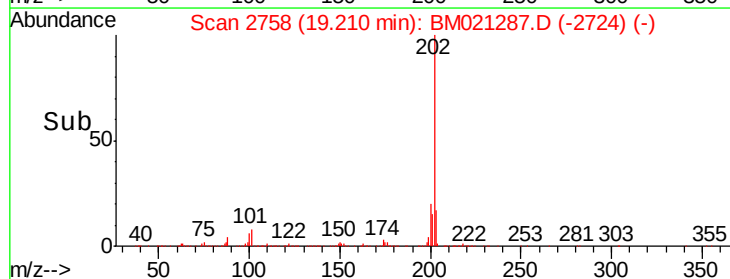
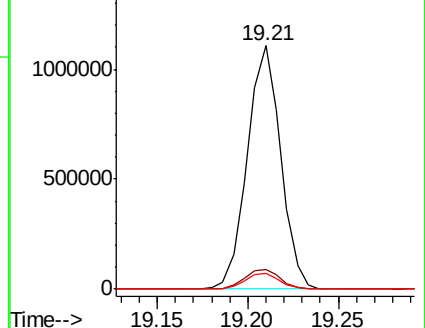
100 6.3 5.5 8.3

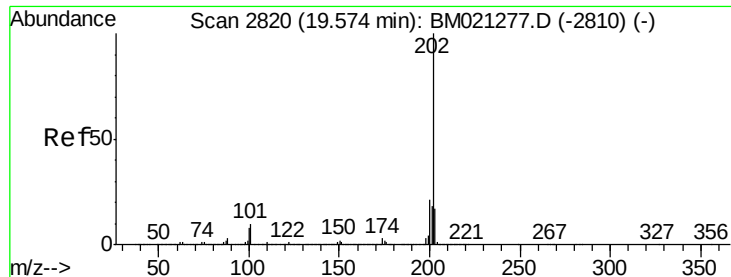


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

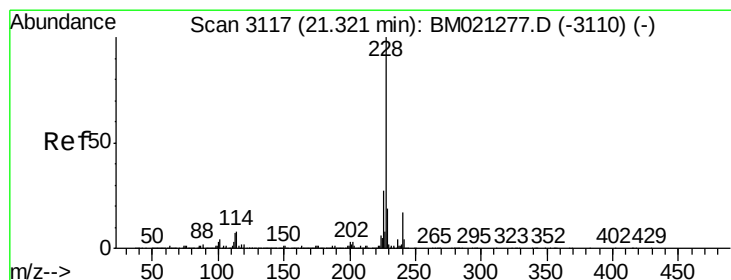
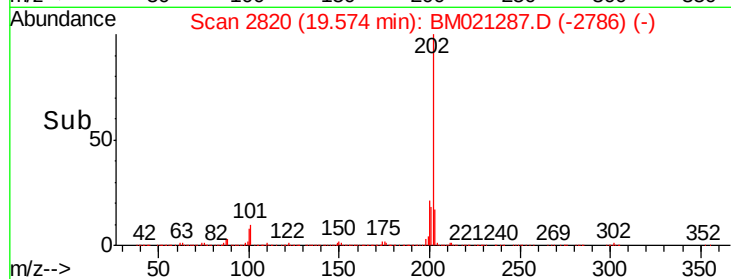
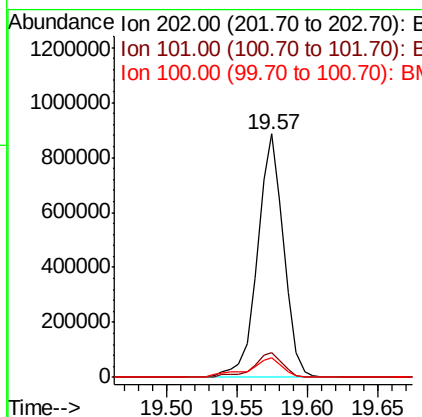
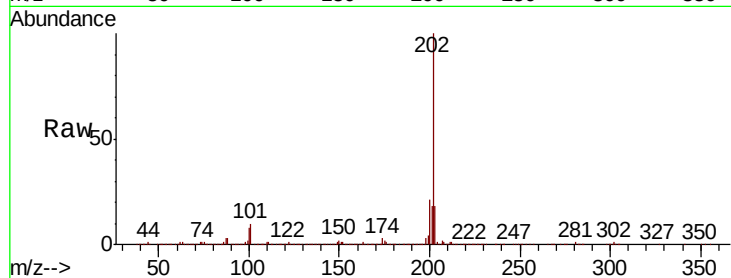




#79  
 Pyrene  
 Concen: 11.377 ng/ul  
 RT: 19.57 min Scan# 2820  
 Delta R.T. 0.00 min  
 Lab File: BM021287.D  
 Acq: 30 Jun 2019 06:19

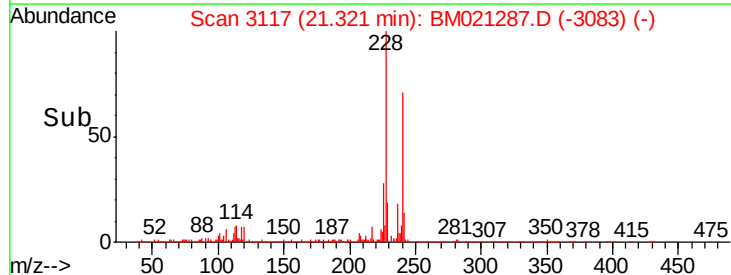
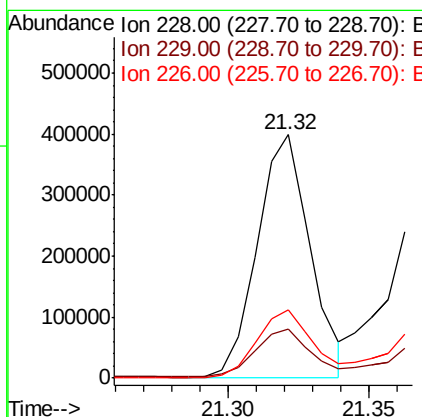
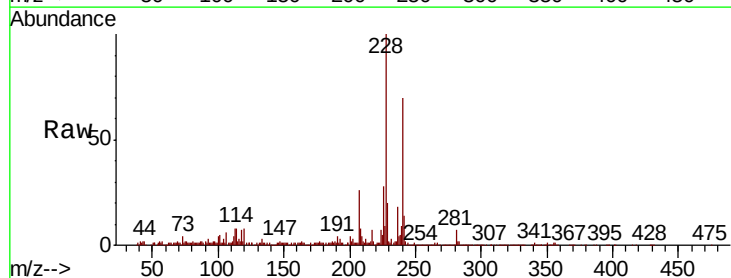
Instrument :  
 BNA\_M  
 ClientSampleId :  
 C5BA9

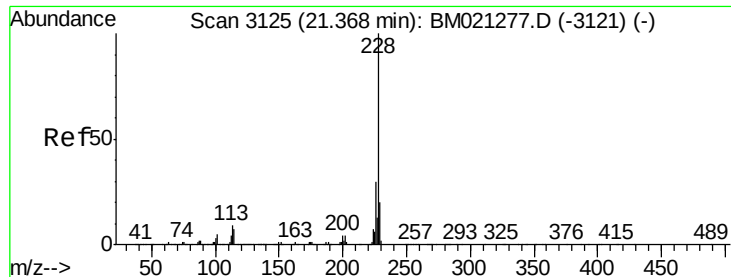
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.0  | 8.1   | 12.1  |
| 100     | 7.8   | 6.6   | 10.0  |



#82  
 Benzo(a)anthracene  
 Concen: 5.278 ng/ul  
 RT: 21.32 min Scan# 3117  
 Delta R.T. 0.00 min  
 Lab File: BM021287.D  
 Acq: 30 Jun 2019 06:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.2  | 15.8  | 23.8  |
| 226     | 28.2  | 21.4  | 32.2  |





#84

Chrysene

Concen: 6.279 ng/ul

RT: 21.37 min Scan# 3125

Delta R.T. 0.00 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

Instrument :

BNA\_M

ClientSampleId :

C5BA9

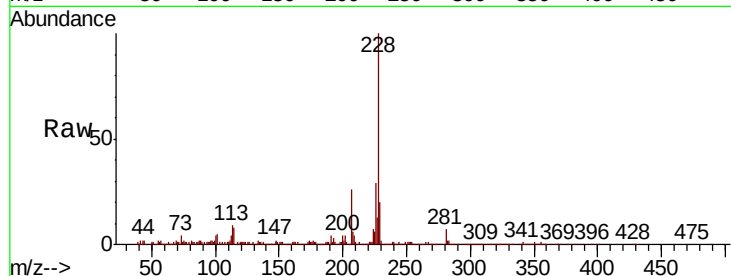
Tgt Ion:228 Resp: 573662

Ion Ratio Lower Upper

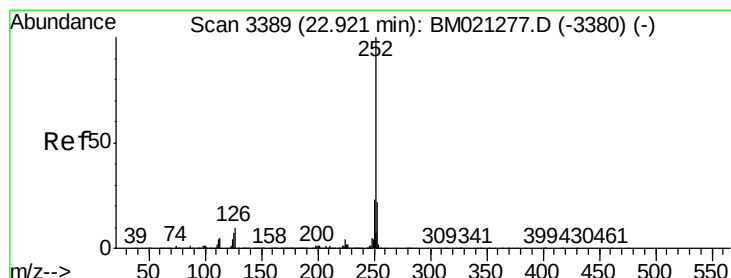
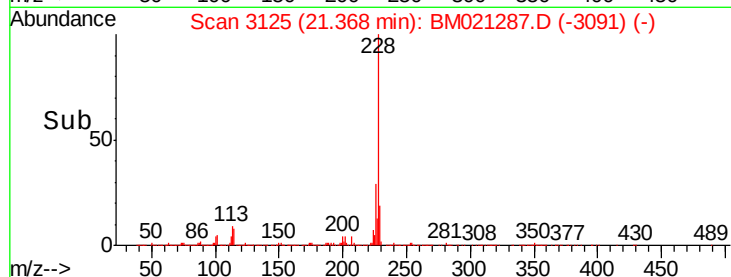
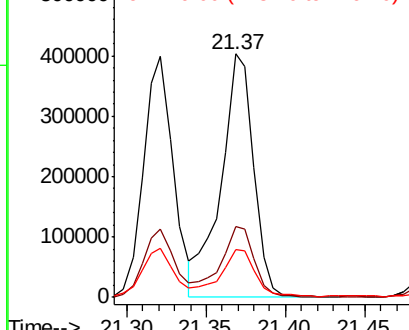
228 100

226 29.2 23.9 35.9

229 19.6 15.4 23.2



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



#87

Benzo(b)fluoranthene

Concen: 8.073 ng/ul

RT: 22.92 min Scan# 3389

Delta R.T. 0.00 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

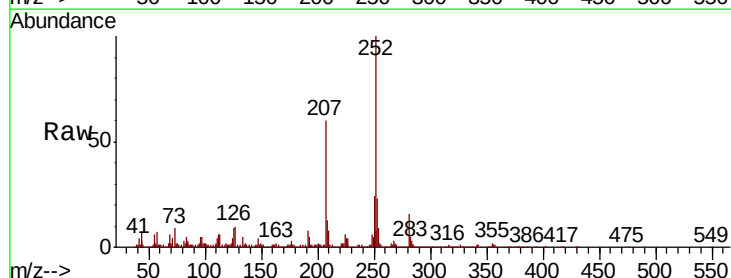
Tgt Ion:252 Resp: 778927

Ion Ratio Lower Upper

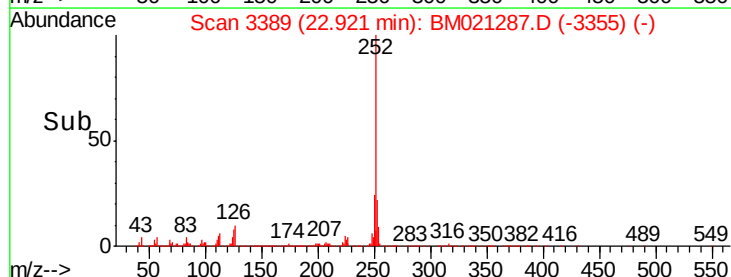
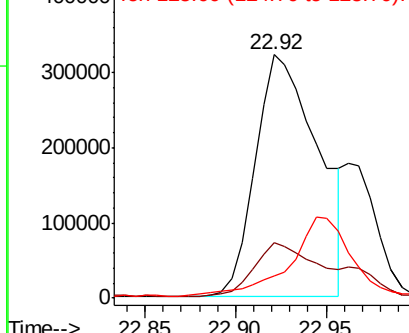
252 100

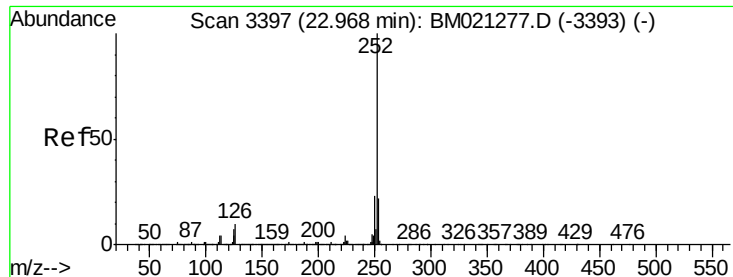
253 22.6 17.5 26.3

125 9.2 6.3 9.5



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





#88

Benzo(k)fluoranthene

Concen: 8.391 ng/ul

RT: 22.92 min Scan# 3389

Delta R.T. -0.05 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

Instrument :

BNA\_M

ClientSampleId :

C5BA9

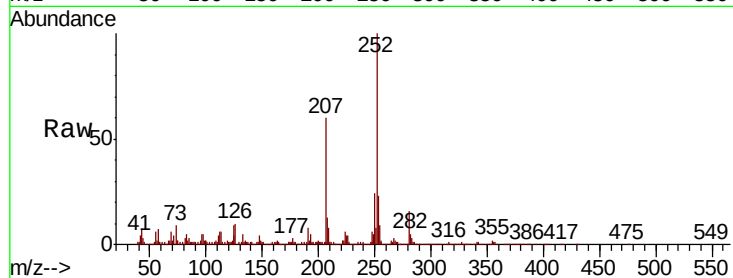
Tgt Ion:252 Resp: 778927

Ion Ratio Lower Upper

252 100

253 22.6 17.5 26.3

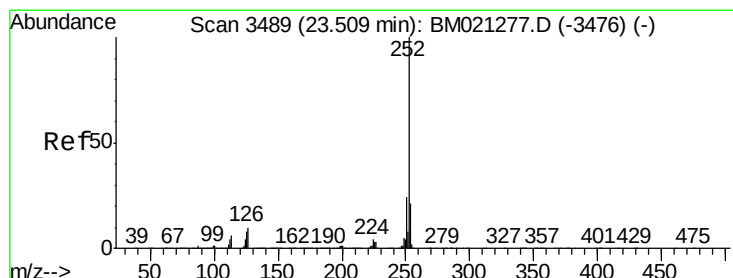
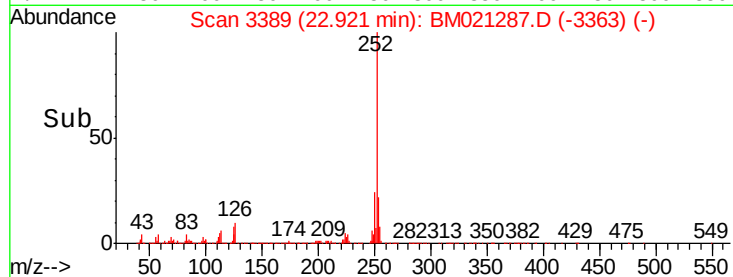
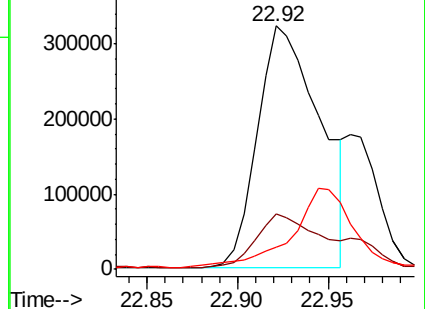
125 9.2 6.6 9.8



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



#90

Benzo(a)pyrene

Concen: 5.218 ng/ul

RT: 23.51 min Scan# 3489

Delta R.T. 0.00 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

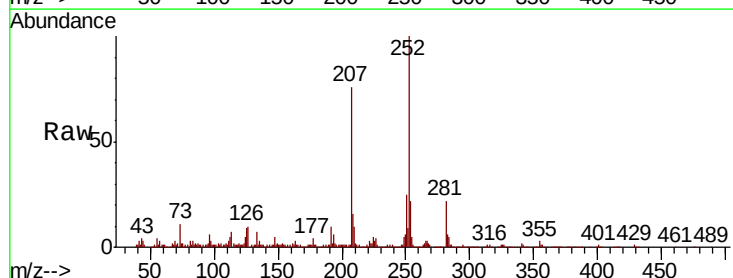
Tgt Ion:252 Resp: 473869

Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.8

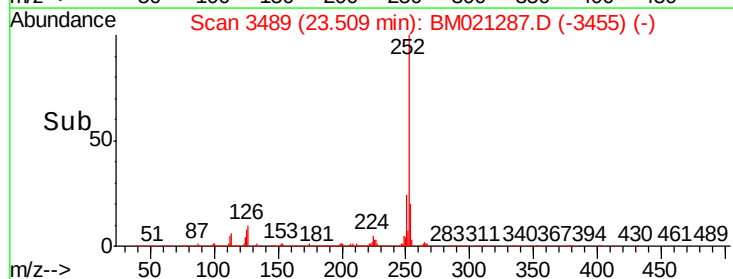
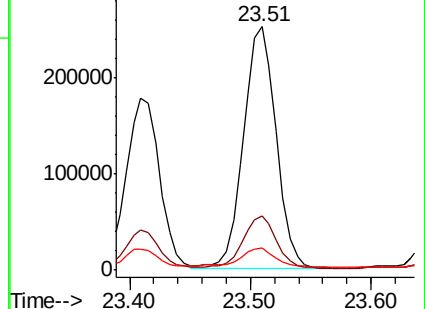
125 9.3 7.2 10.8

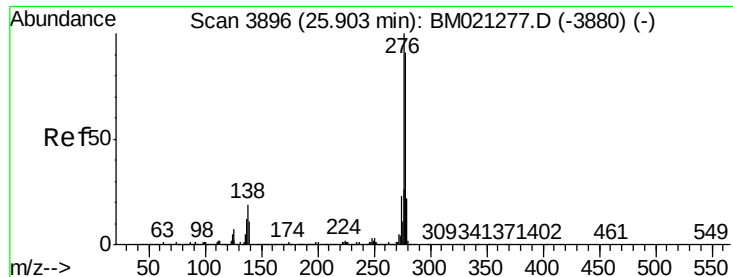


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



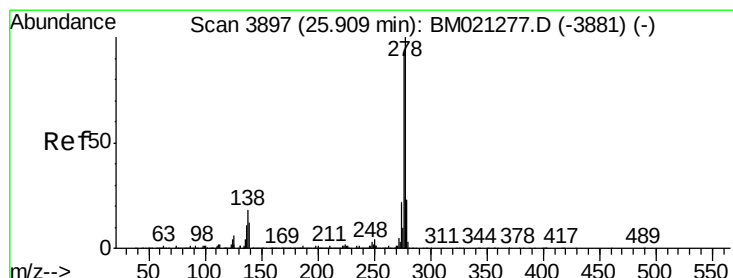
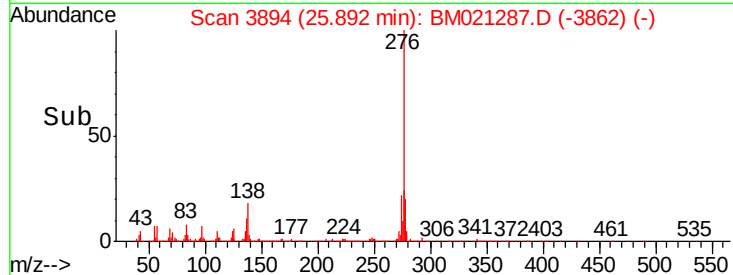
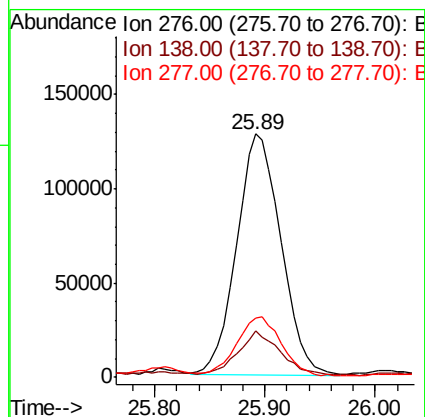
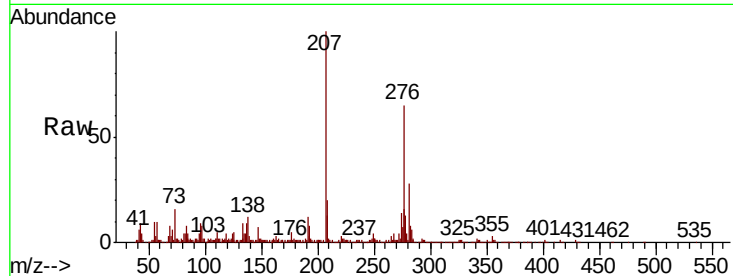


#91

Indeno(1,2,3-cd)pyrene  
Concen: 3.360 ng/ul  
RT: 25.89 min Scan# 3894  
Delta R.T. -0.01 min  
Lab File: BM021287.D  
Acq: 30 Jun 2019 06:19

Instrument :  
BNA\_M  
ClientSampleId :  
C5BA9

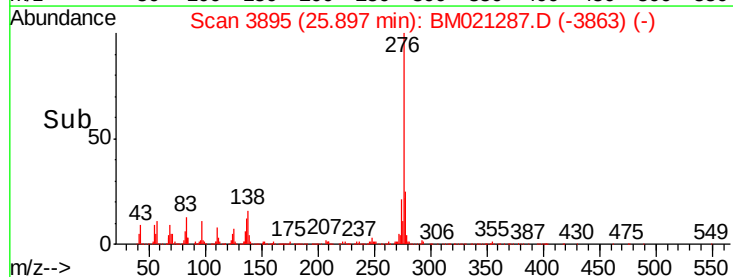
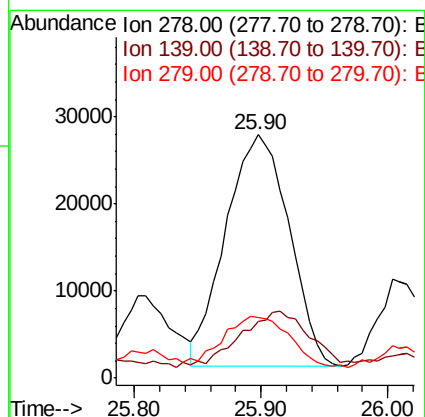
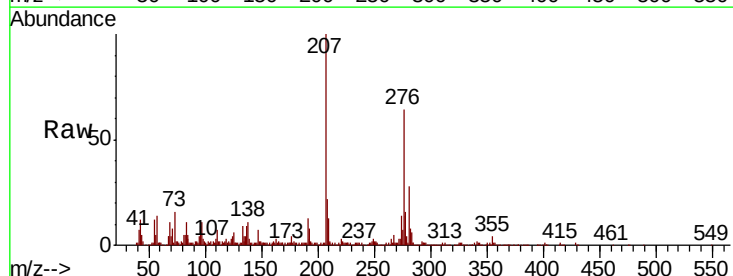
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.8  | 15.9  | 23.9  |
| 277     | 24.2  | 20.4  | 30.6  |



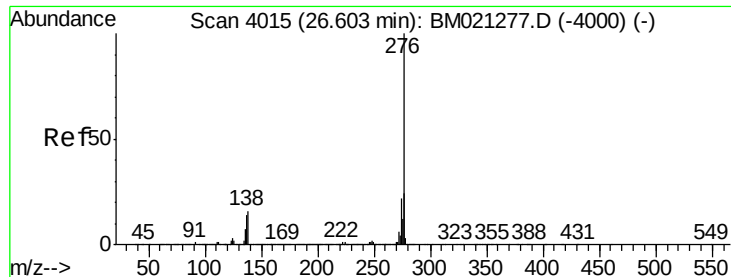
#92

Dibenzo(a,h)anthracene  
Concen: 1.030 ng/ul  
RT: 25.90 min Scan# 3895  
Delta R.T. -0.01 min  
Lab File: BM021287.D  
Acq: 30 Jun 2019 06:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.2  | 10.6  | 15.8# |
| 279     | 24.8  | 19.0  | 28.4  |







#93

Benzo(g,h,i)perylene

Concen: 3.635 ng/ul

RT: 26.60 min Scan# 4015

Delta R.T. 0.00 min

Lab File: BM021287.D

Acq: 30 Jun 2019 06:19

Instrument :

BNA\_M

ClientSampleId :

C5BA9

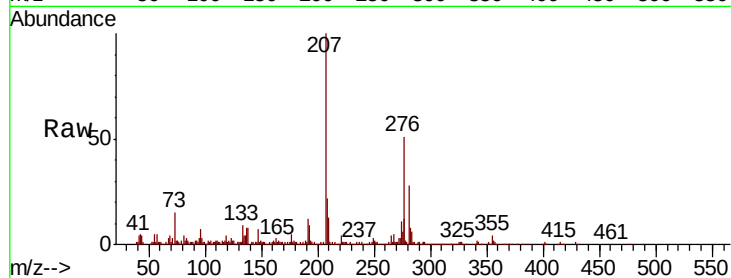
Tgt Ion: 276 Resp: 320145

Ion Ratio Lower Upper

276 100

138 16.3 14.6 21.8

277 23.8 18.9 28.3



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

