

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\  
 Data File : BM026363.D  
 Acq On : 11 Jun 2020 19:25  
 Operator : JU/CG  
 Sample : L2954-02 2X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 239-355

Quant Time: Jun 12 01:29:06 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 09 14:46:47 2020  
 Response via : Initial Calibration

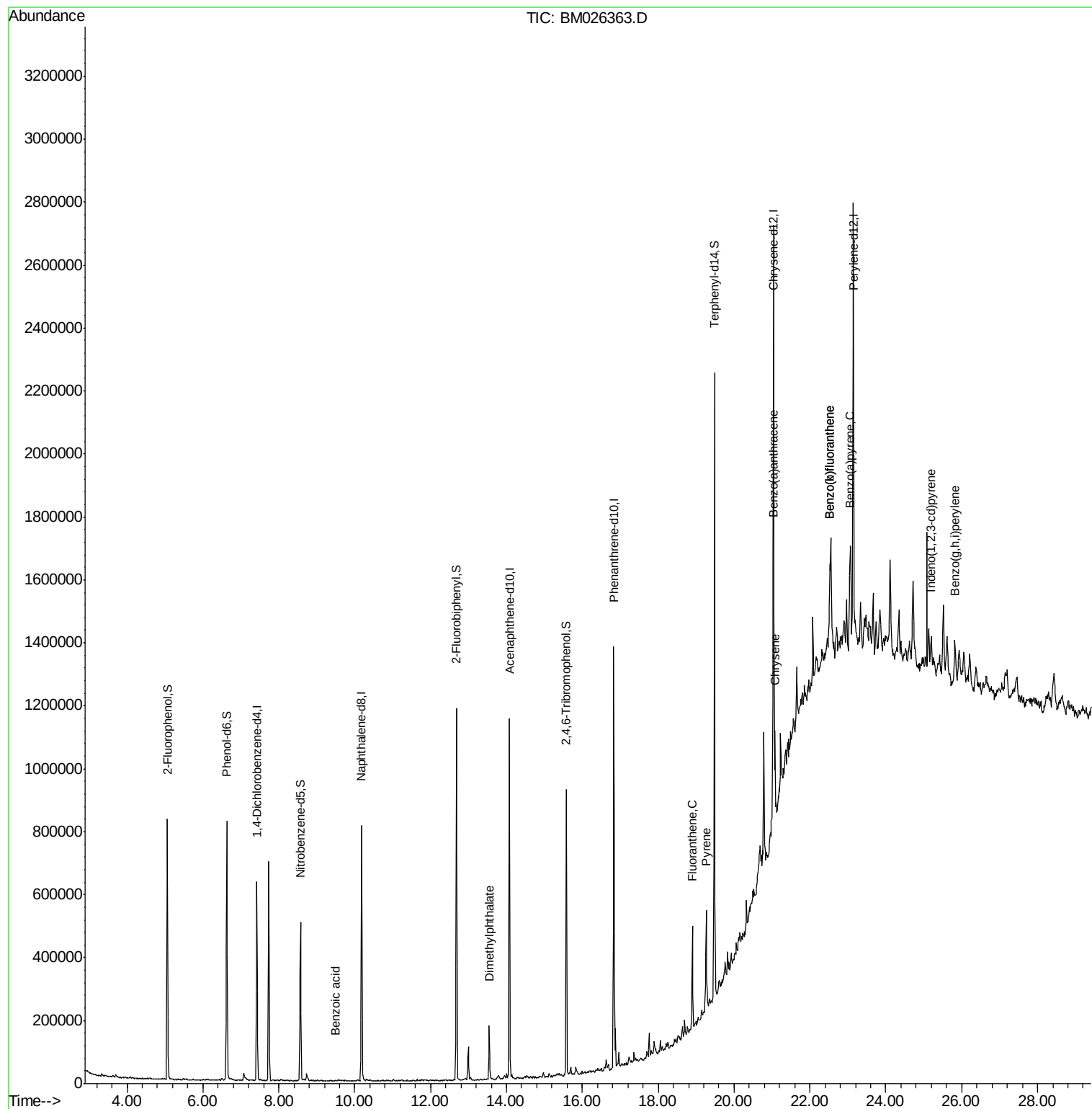
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|-------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.42  | 152  | 150593   | 20.00 | ng    | 0.00        |
| 21) Naphthalene-d8          | 10.18 | 136  | 596877   | 20.00 | ng    | 0.00        |
| 39) Acenaphthene-d10        | 14.07 | 164  | 344590   | 20.00 | ng    | 0.00        |
| 64) Phenanthrene-d10        | 16.83 | 188  | 731142   | 20.00 | ng    | 0.00        |
| 76) Chrysene-d12            | 21.04 | 240  | 791083   | 20.00 | ng    | 0.00        |
| 86) Perylene-d12            | 23.14 | 264  | 860704   | 20.00 | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |       |       |             |
| 5) 2-Fluorophenol           | 5.06  | 112  | 319155   | 37.47 | ng    | 0.00        |
| 7) Phenol-d6                | 6.63  | 99   | 426748   | 34.60 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 8.57  | 82   | 280128   | 23.04 | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol    | 15.58 | 330  | 149576   | 35.83 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl        | 12.69 | 172  | 571768   | 25.19 | ng    | 0.00        |
| 79) Terphenyl-d14           | 19.49 | 244  | 918631   | 22.54 | ng    | 0.00        |
| Target Compounds            |       |      |          |       |       |             |
| 32) Benzoic acid            | 9.50  | 122  | 252      | 5.199 | ng    | Qvalue # 71 |
| 50) Dimethylphthalate       | 13.55 | 163  | 97080    | 3.852 | ng    | 99          |
| 75) Fluoranthene            | 18.90 | 202  | 183507   | 4.204 | ng    | 99          |
| 78) Pyrene                  | 19.26 | 202  | 181246   | 3.468 | ng    | 97          |
| 81) Benzo(a)anthracene      | 21.02 | 228  | 115476   | 2.432 | ng    | 96          |
| 83) Chrysene                | 21.07 | 228  | 135679   | 2.998 | ng    | # 93        |
| 87) Indeno(1,2,3-cd)pyrene  | 25.20 | 276  | 105639   | 2.122 | ng    | 93          |
| 88) Benzo(b)fluoranthene    | 22.53 | 252  | 252776   | 4.882 | ng    | # 83        |
| 89) Benzo(k)fluoranthene    | 22.53 | 252  | 252776   | 5.025 | ng    | # 82        |
| 90) Benzo(a)pyrene          | 23.05 | 252  | 137085   | 2.981 | ng    | # 88        |
| 92) Benzo(g,h,i)perylene    | 25.83 | 276  | 115837   | 2.929 | ng    | 96          |

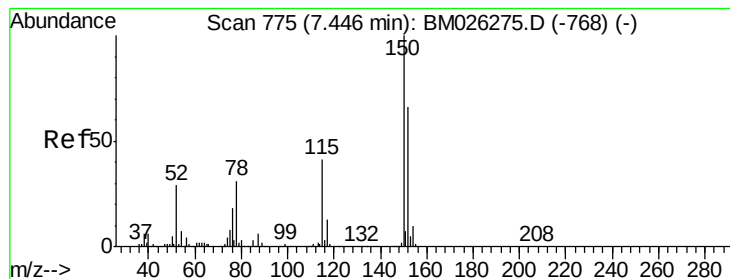
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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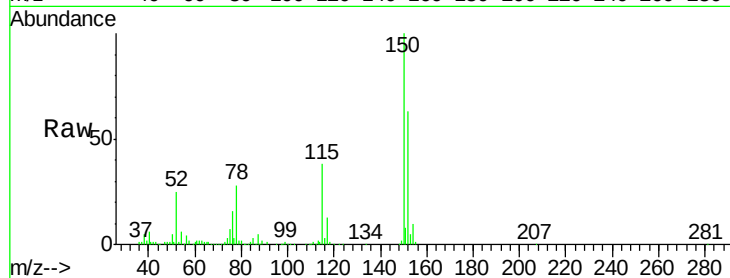


#1

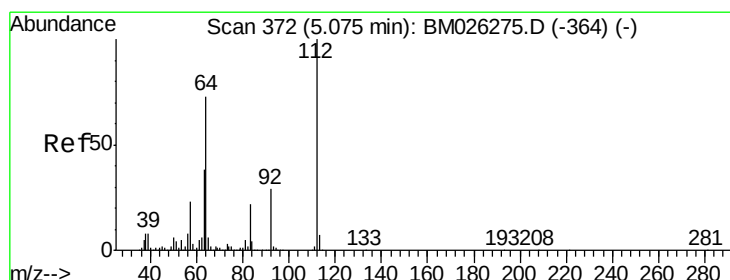
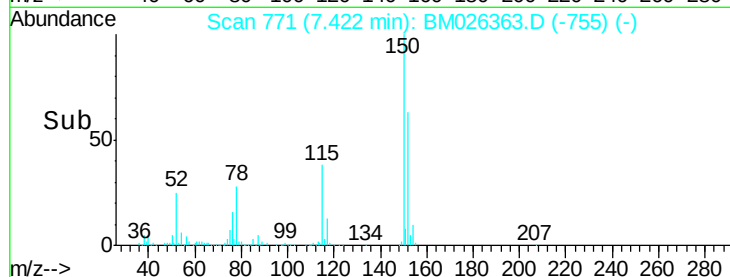
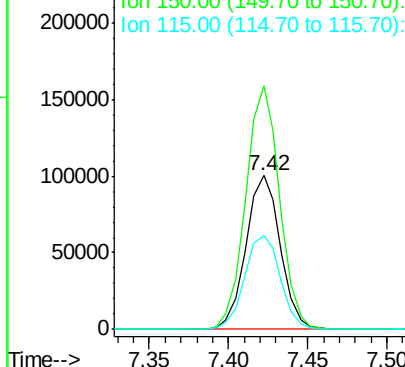
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.42 min Scan# 771  
Delta R.T. -0.01 min  
Lab File: BM026363.D  
Acq: 11 Jun 2020 19:25

Instrument :  
BNA\_M  
ClientSampleId :  
239-355

| Tot Ion   | 152   | Resp  | 150593 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 158.2 | 122.1 | 183.1  |
| 115       | 60.7  | 49.7  | 74.5   |



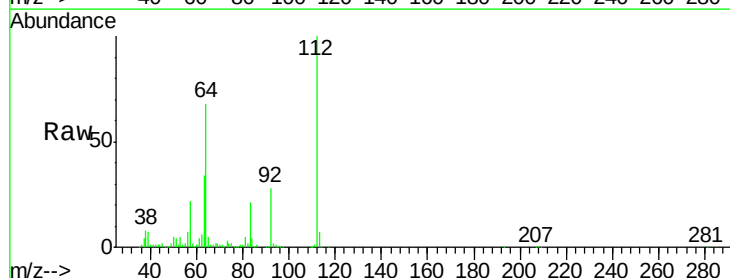
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



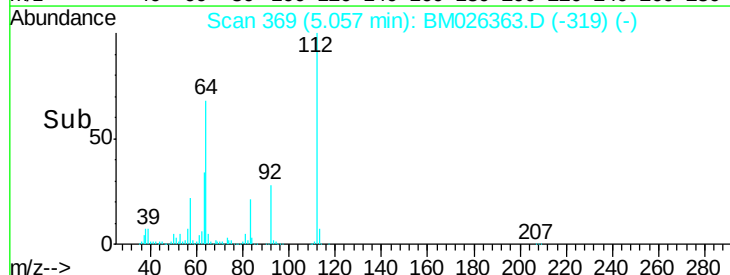
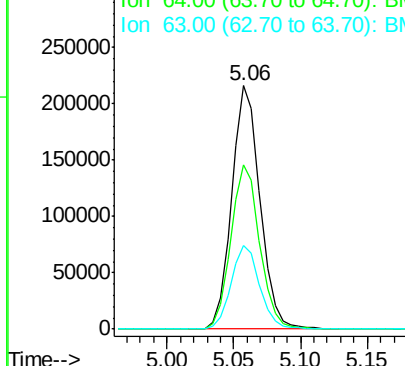
#5

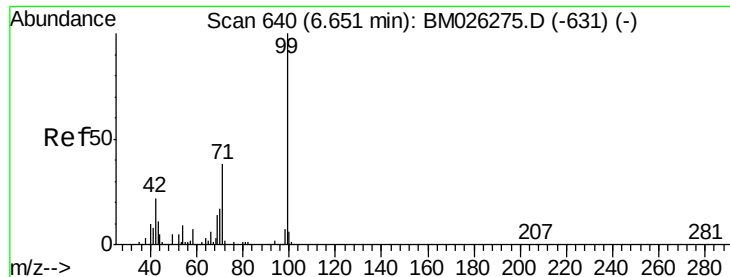
2-Fluorophenol  
Concen: 37.470 ng  
RT: 5.06 min Scan# 369  
Delta R.T. -0.01 min  
Lab File: BM026363.D  
Acq: 11 Jun 2020 19:25

| Tgt Ion   | 112   | Resp  | 319155 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 67.7  | 58.1  | 87.1   |
| 63        | 34.5  | 30.6  | 45.8   |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BM0  
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 34.600 ng

RT: 6.63 min Scan# 636

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampleId :

239-355

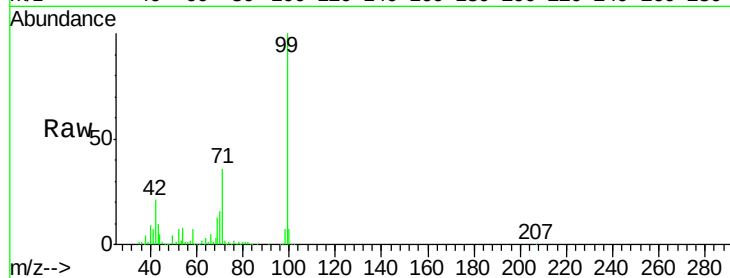
Tot Ion: 99 Resp: 426748

Ion Ratio Lower Upper

99 100

42 20.5 18.0 27.0

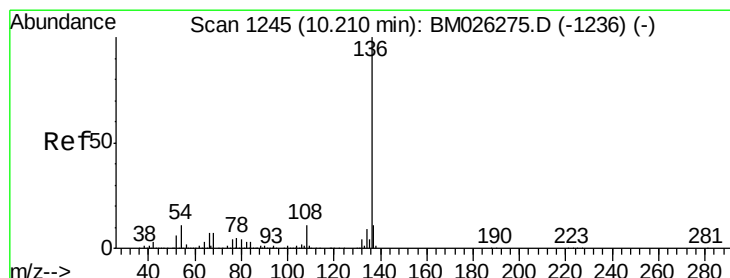
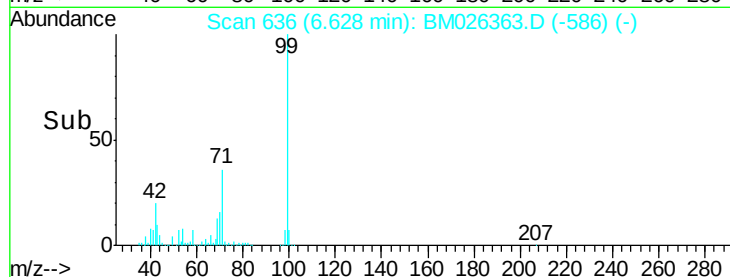
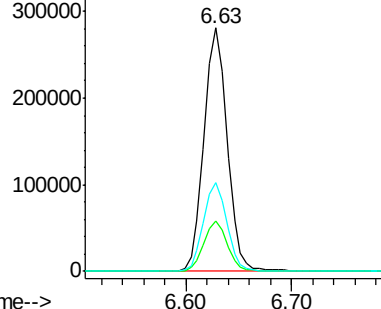
71 36.4 30.6 45.8



Abundance Ion 99.00 (98.70 to 99.70): BM026275.D (-631) (-)

Ion 42.00 (41.70 to 42.70): BM026275.D (-631) (-)

Ion 71.00 (70.70 to 71.70): BM026275.D (-631) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Tgt Ion: 136 Resp: 596877

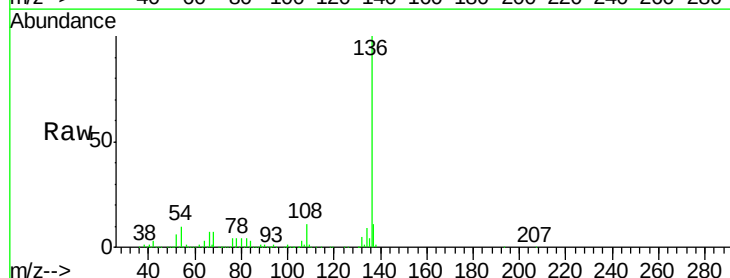
Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

54 10.5 9.0 13.4

68 7.2 5.6 8.4

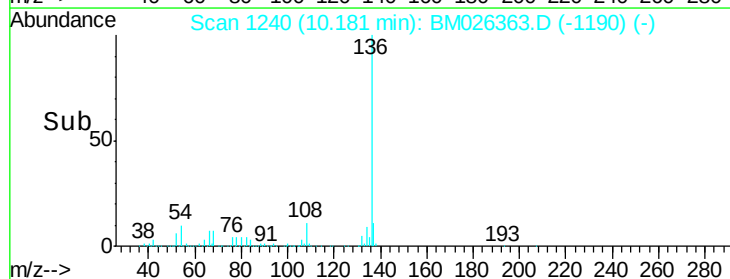
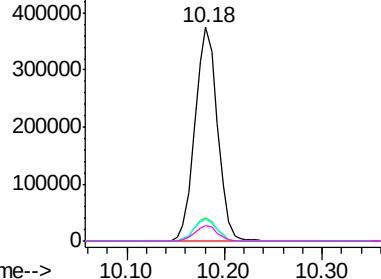


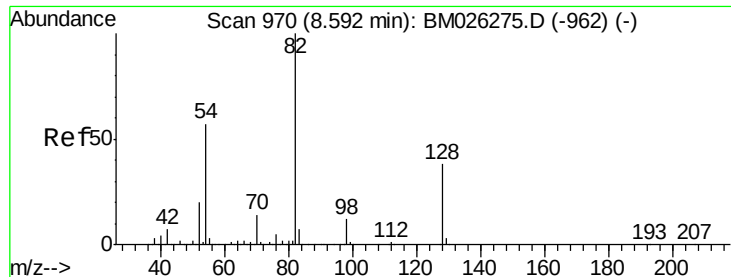
Abundance Ion 136.00 (135.70 to 136.70): BM026275.D (-1236) (-)

Ion 137.00 (136.70 to 137.70): BM026275.D (-1236) (-)

Ion 54.00 (53.70 to 54.70): BM026275.D (-1236) (-)

Ion 68.00 (67.70 to 68.70): BM026275.D (-1236) (-)

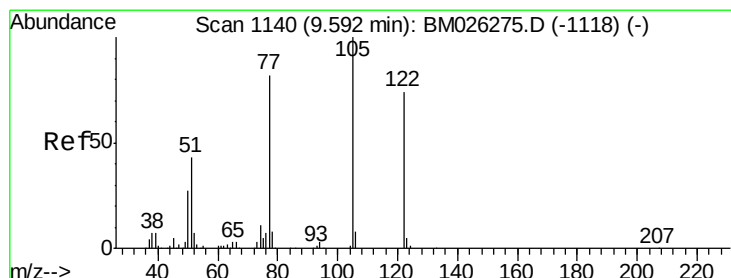
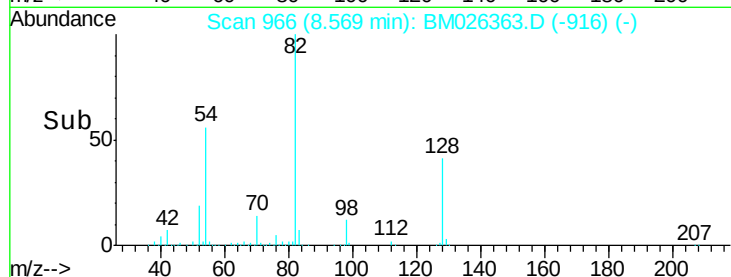
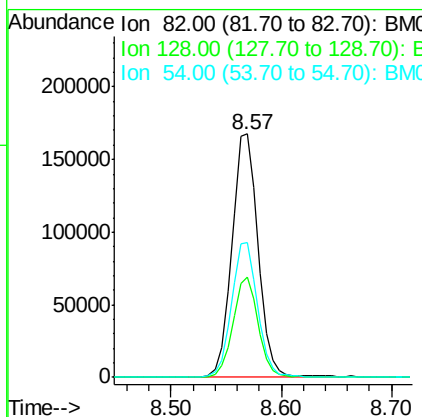
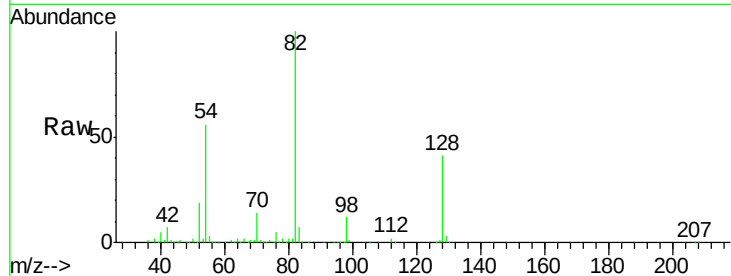




#23  
 Nitrobenzene-d5  
 Concen: 23.044 ng  
 RT: 8.57 min Scan# 966  
 Delta R.T. -0.01 min  
 Lab File: BM026363.D  
 Acq: 11 Jun 2020 19:25

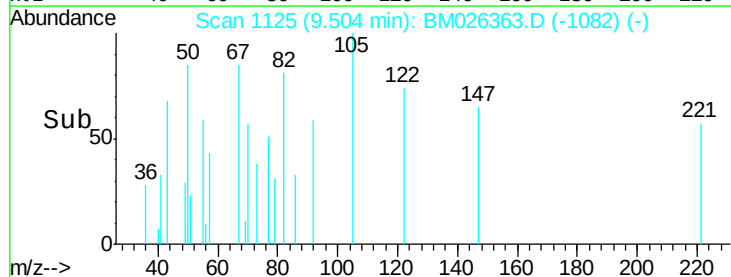
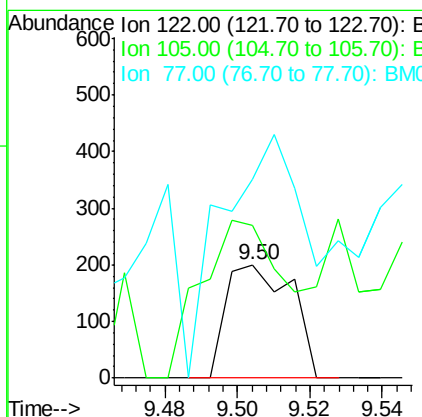
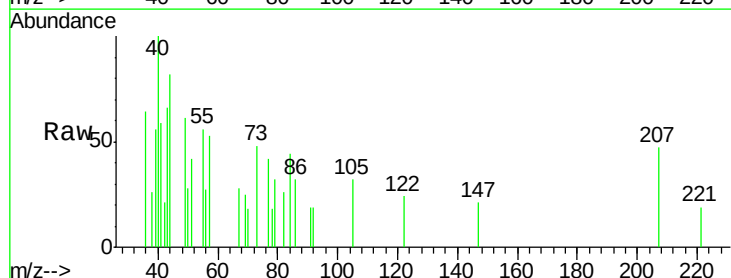
Instrument :  
 BNA\_M  
 ClientSampled :  
 239-355

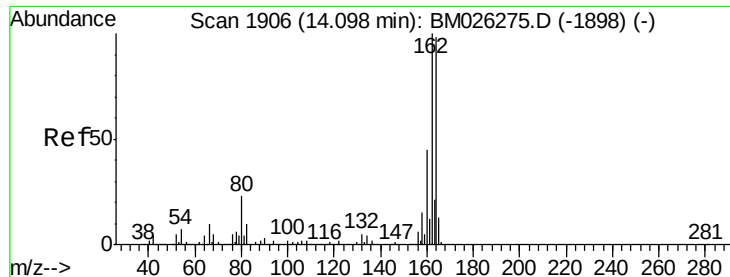
| Tot Ion   | 82    | Resp  | 280128 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.9  | 30.3  | 45.5   |
| 54        | 55.6  | 45.4  | 68.2   |



#32  
 Benzoic acid  
 Concen: 5.199 ng  
 RT: 9.50 min Scan# 1125  
 Delta R.T. -0.05 min  
 Lab File: BM026363.D  
 Acq: 11 Jun 2020 19:25

| Tgt Ion   | 122   | Resp  | 252    |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 105       | 134.5 | 112.4 | 152.4  |
| 77        | 176.0 | 89.8  | 129.8# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.07 min Scan# 1902

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampleId :

239-355

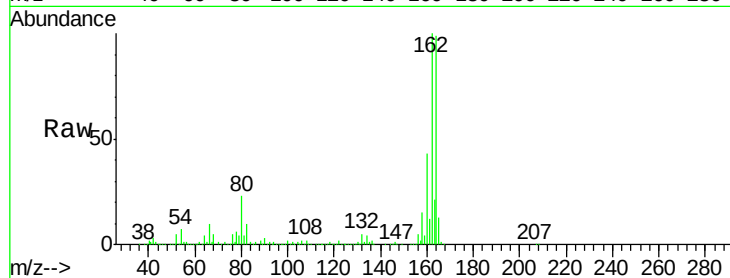
Tot Ion:164 Resp: 344590

Ion Ratio Lower Upper

164 100

162 100.5 81.4 122.2

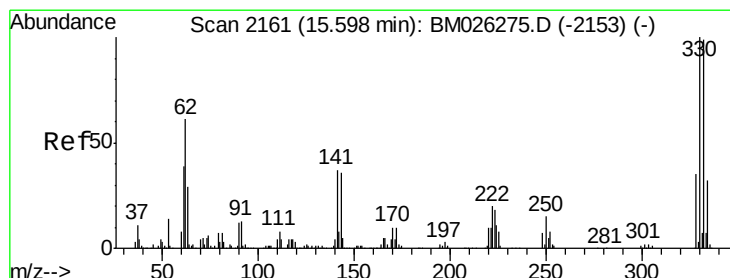
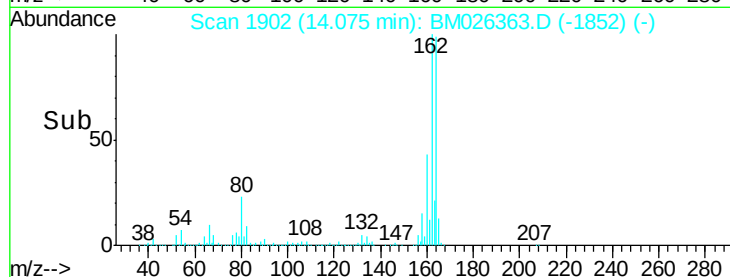
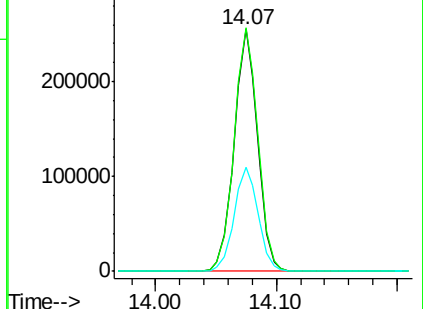
160 43.1 36.4 54.6



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



#42

2,4,6-Tribromophenol

Concen: 35.834 ng

RT: 15.58 min Scan# 2158

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

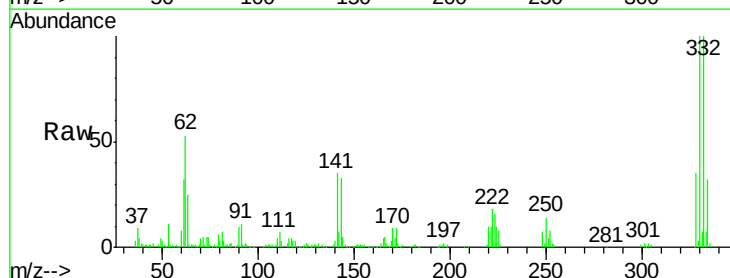
Tgt Ion:330 Resp: 149576

Ion Ratio Lower Upper

330 100

332 97.5 78.1 117.1

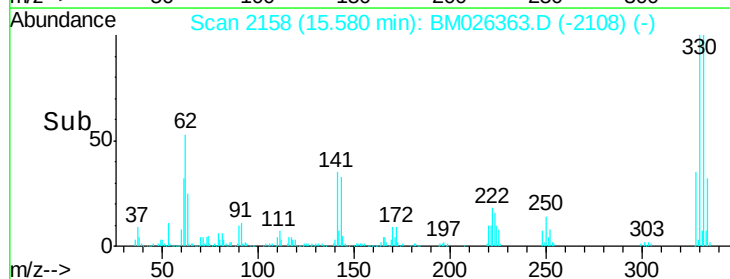
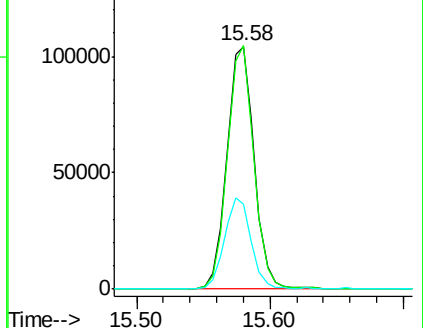
141 37.1 30.0 45.0

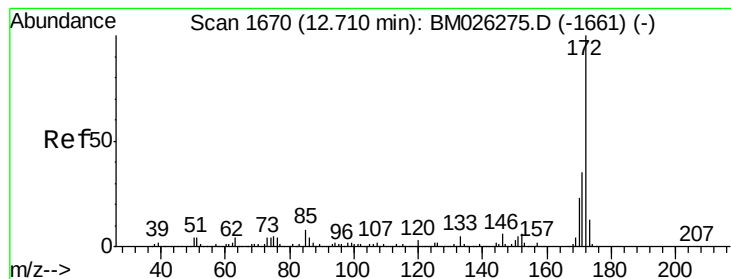


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#45

2-Fluorobiphenyl

Concen: 25.187 ng

RT: 12.69 min Scan# 1666

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampled :

239-355

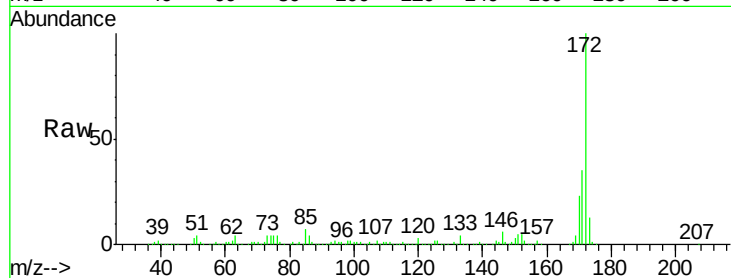
Tot Ion:172 Resp: 571768

Ion Ratio Lower Upper

172 100

171 34.8 28.2 42.2

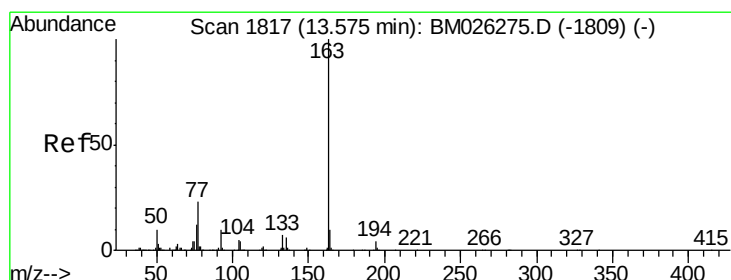
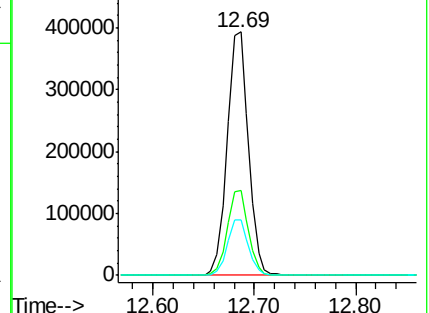
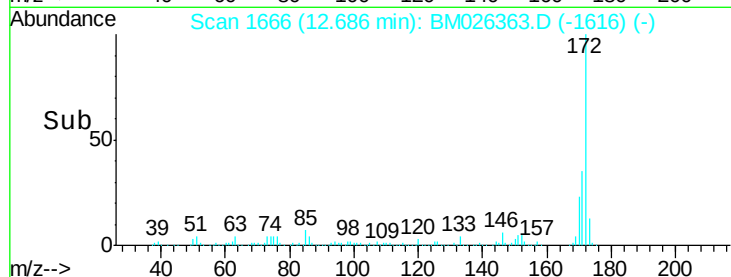
170 22.7 18.3 27.5



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



#50

Dimethylphthalate

Concen: 3.852 ng

RT: 13.55 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

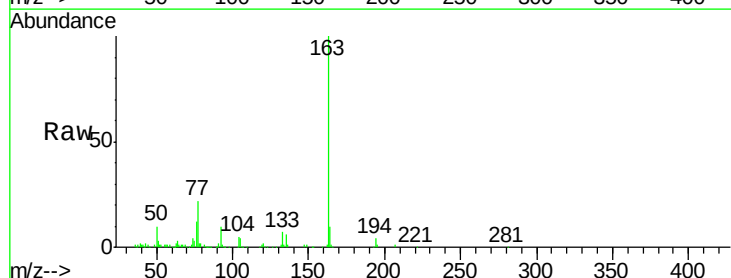
Tgt Ion:163 Resp: 97080

Ion Ratio Lower Upper

163 100

194 4.3 3.4 5.2

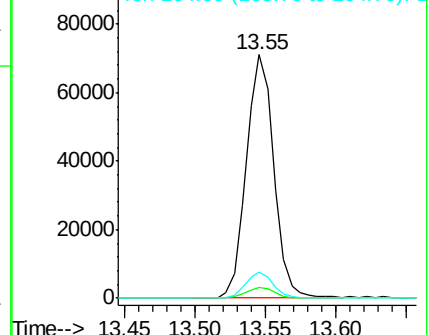
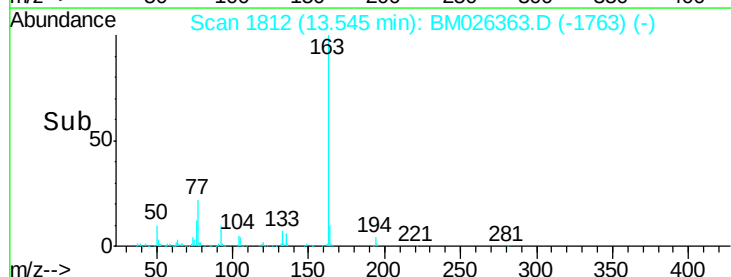
164 10.5 8.0 12.0

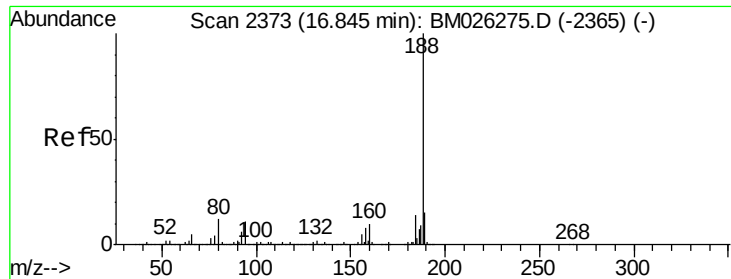


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

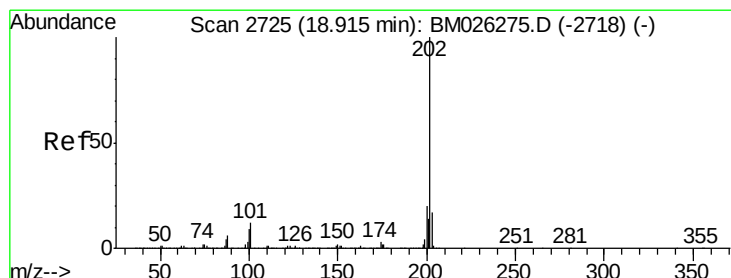
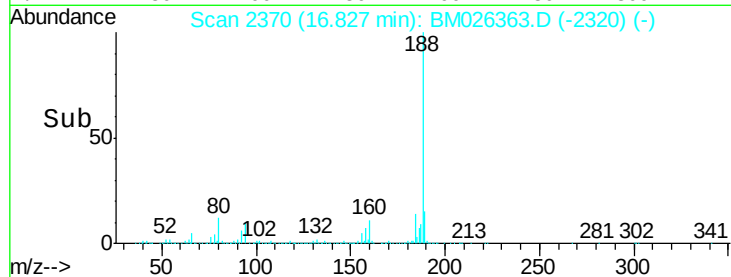
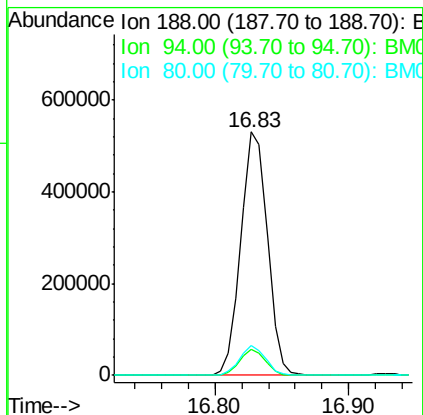
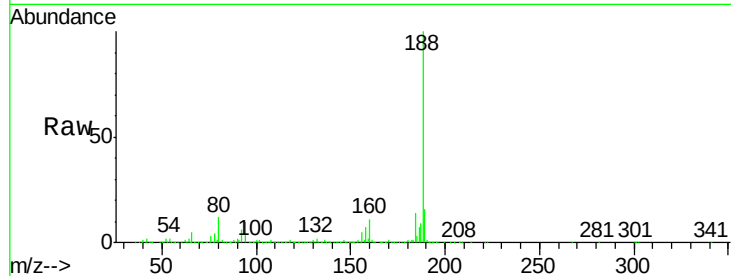




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.83 min Scan# 2370  
Delta R.T. -0.01 min  
Lab File: BM026363.D  
Acq: 11 Jun 2020 19:25

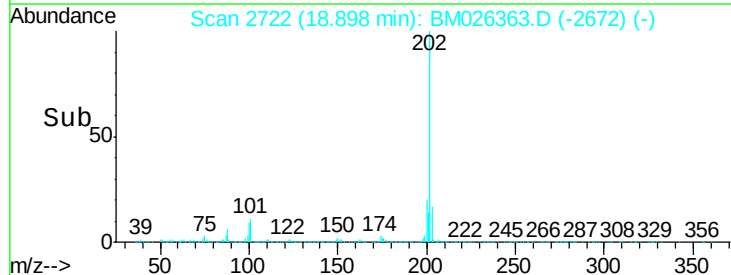
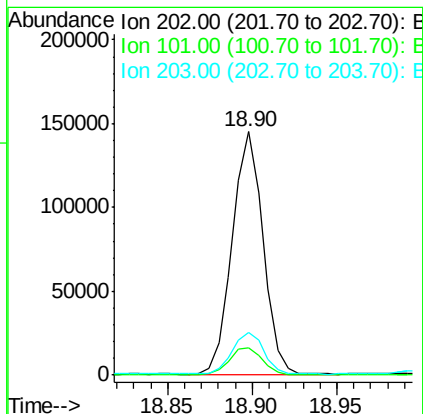
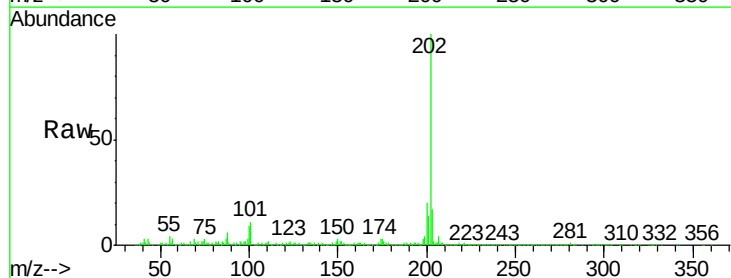
Instrument :  
BNA\_M  
ClientSampleId :  
239-355

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.5  | 8.6   | 12.8  |
| 80      | 12.4  | 9.7   | 14.5  |

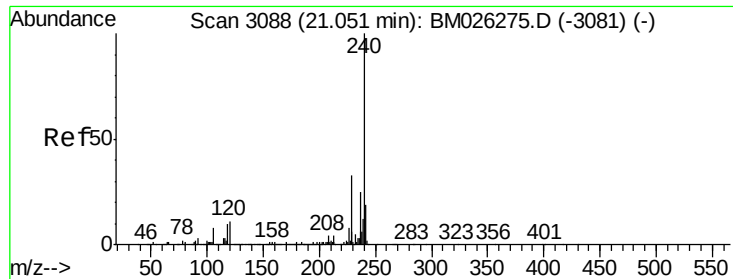


#75  
Fluoranthene  
Concen: 4.204 ng  
RT: 18.90 min Scan# 2722  
Delta R.T. -0.01 min  
Lab File: BM026363.D  
Acq: 11 Jun 2020 19:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.0  | 0.0   | 31.6  |
| 203     | 17.4  | 0.0   | 37.4  |



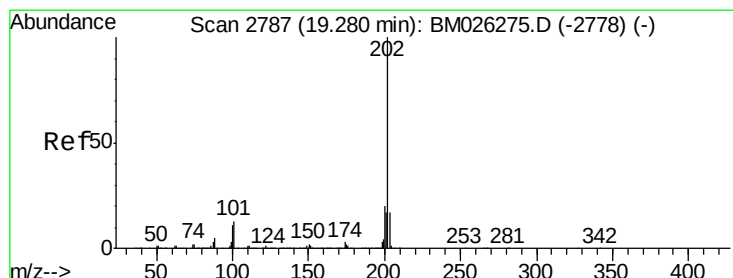
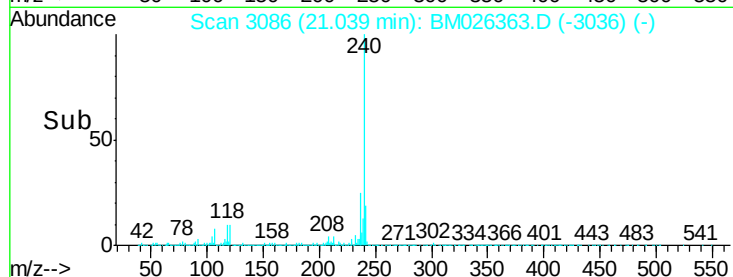
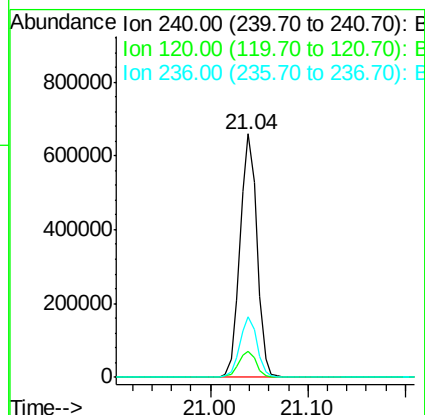
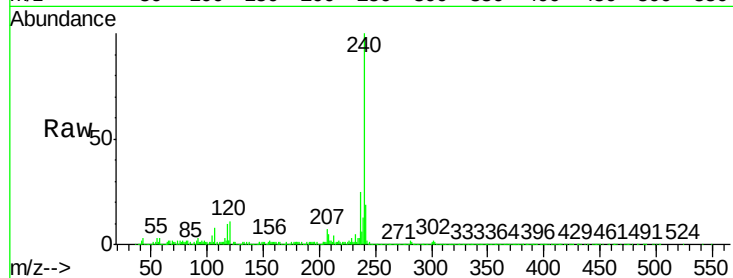




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.04 min Scan# 3086  
Delta R.T. -0.01 min  
Lab File: BM026363.D  
Acq: 11 Jun 2020 19:25

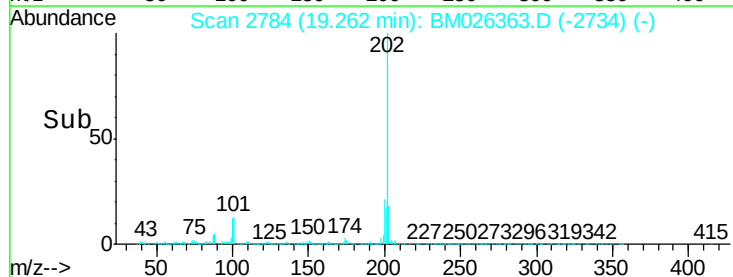
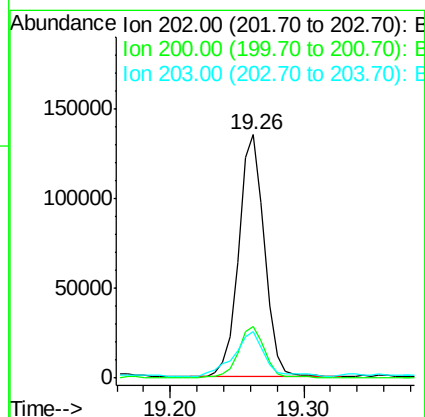
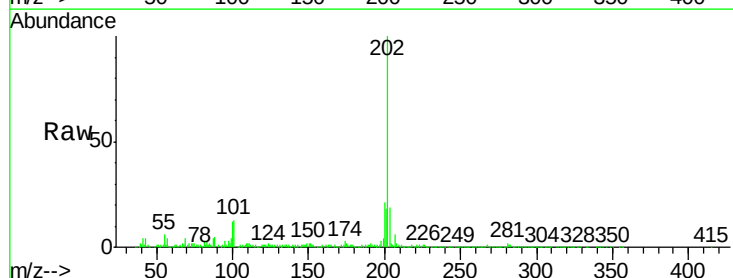
Instrument :  
BNA\_M  
ClientSampleId :  
239-355

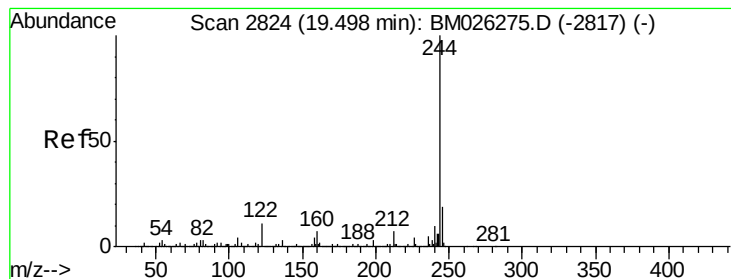
Tot Ion:240 Resp: 791083  
Ion Ratio Lower Upper  
240 100  
120 10.7 8.9 13.3  
236 25.1 19.7 29.5



#78  
Pyrene  
Concen: 3.468 ng  
RT: 19.26 min Scan# 2784  
Delta R.T. -0.01 min  
Lab File: BM026363.D  
Acq: 11 Jun 2020 19:25

Tgt Ion:202 Resp: 181246  
Ion Ratio Lower Upper  
202 100  
200 21.2 16.2 24.4  
203 19.3 13.8 20.8





#79

Terphenyl-d14

Concen: 22.542 ng

RT: 19.49 min Scan# 2822

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampleId :

239-355

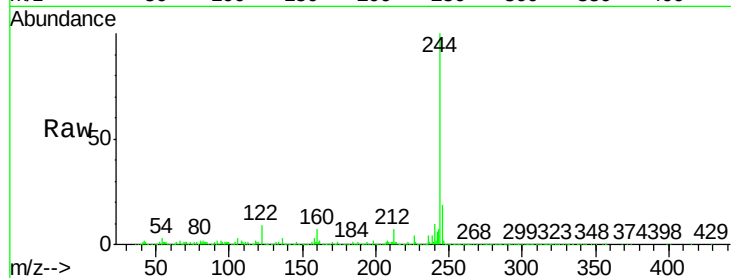
Tot Ion:244 Resp: 918631

Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

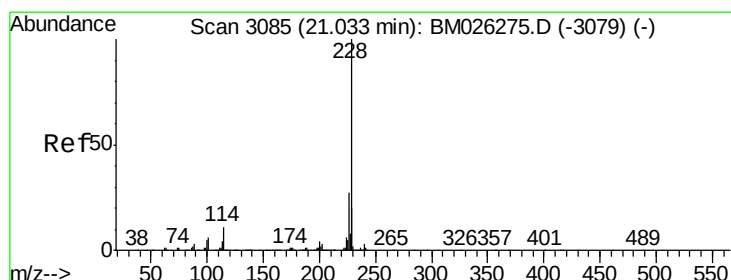
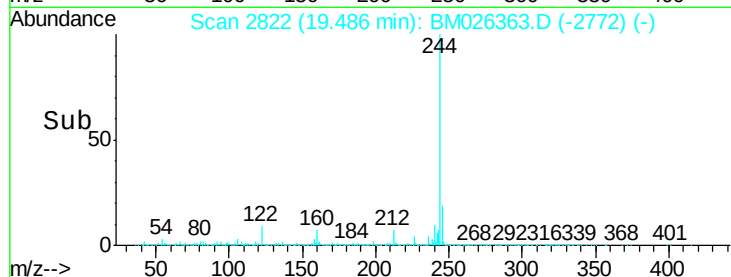
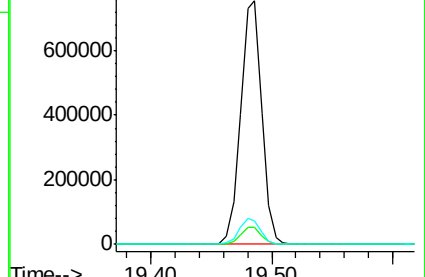
122 9.4 9.1 13.7



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



#81

Benzo(a)anthracene

Concen: 2.432 ng

RT: 21.02 min Scan# 3083

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

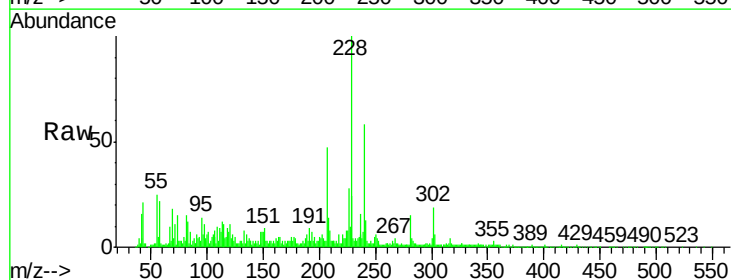
Tgt Ion:228 Resp: 115476

Ion Ratio Lower Upper

228 100

226 27.6 21.7 32.5

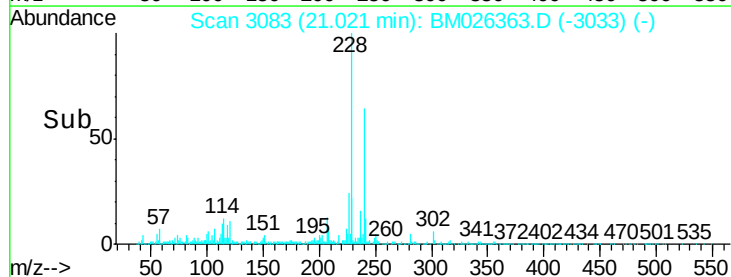
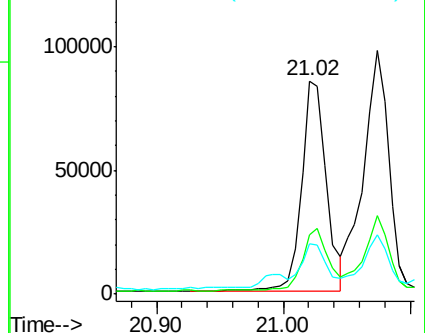
229 23.8 15.9 23.9

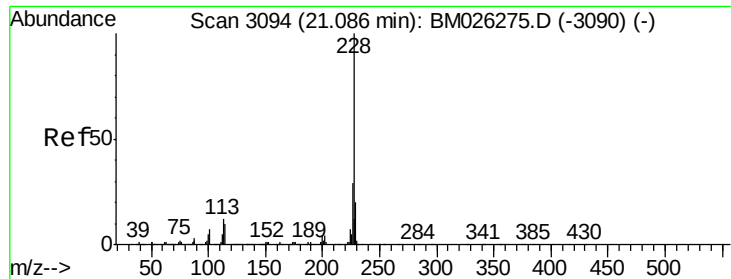


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 2.998 ng

RT: 21.07 min Scan# 3092

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampleId :

239-355

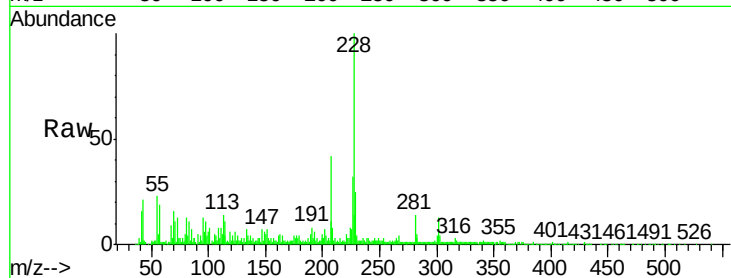
Tot Ion:228 Resp: 135679

Ion Ratio Lower Upper

228 100

226 32.1 23.5 35.3

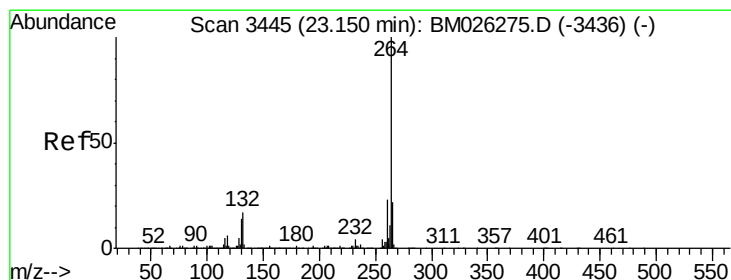
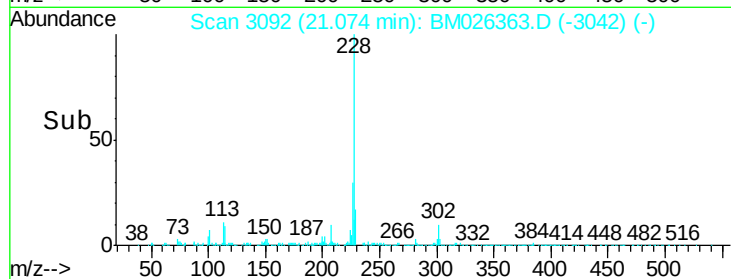
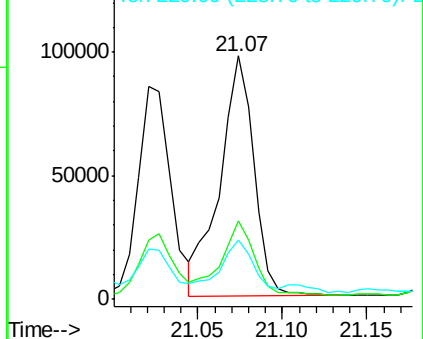
229 24.6 15.8 23.6#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.14 min Scan# 3444

Delta R.T. 0.00 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

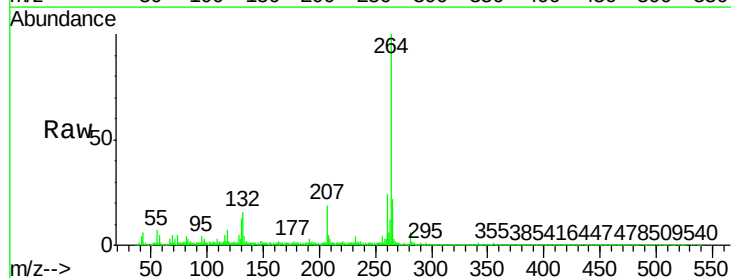
Tgt Ion:264 Resp: 860704

Ion Ratio Lower Upper

264 100

260 23.7 18.6 28.0

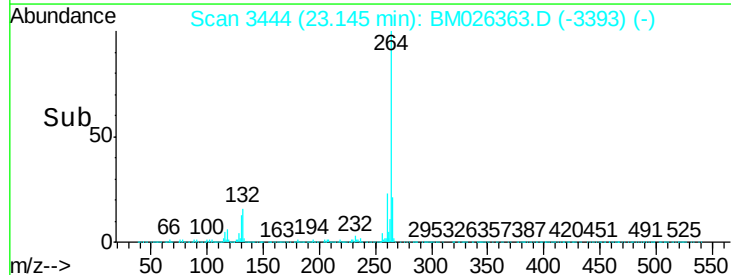
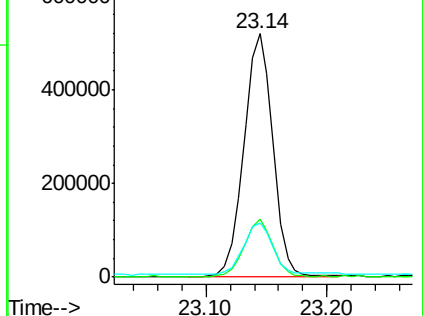
265 22.2 18.2 27.2

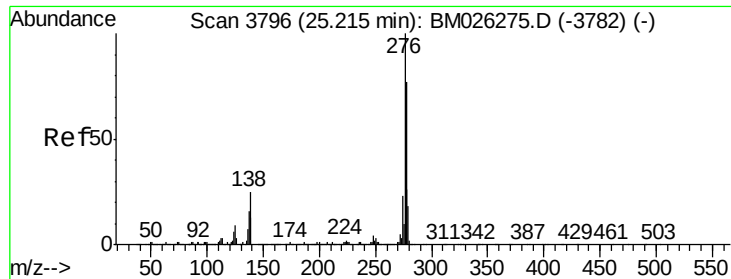


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

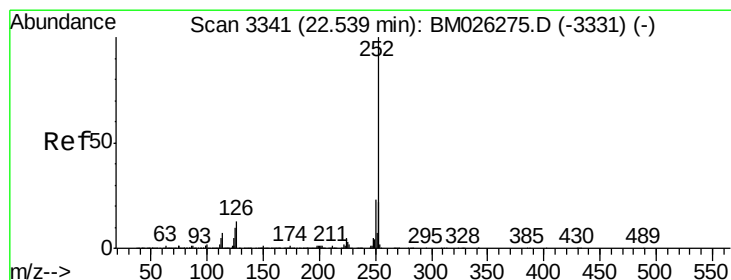
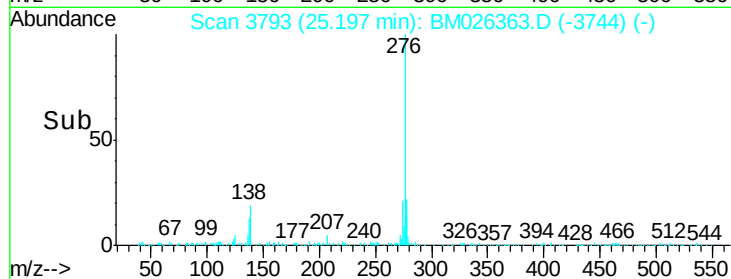
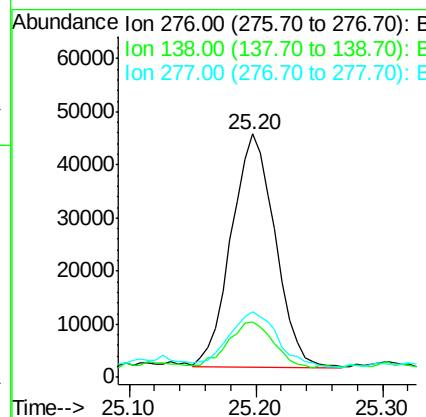
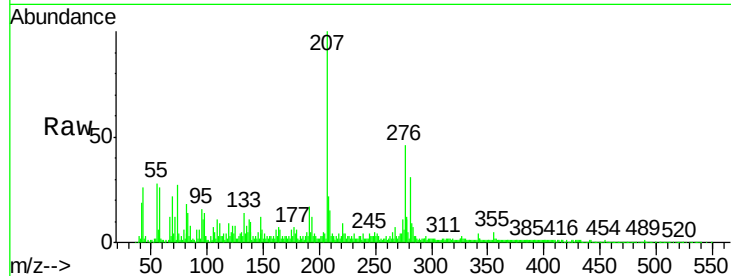




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.122 ng  
 RT: 25.20 min Scan# 3793  
 Delta R.T. -0.01 min  
 Lab File: BM026363.D  
 Acq: 11 Jun 2020 19:25

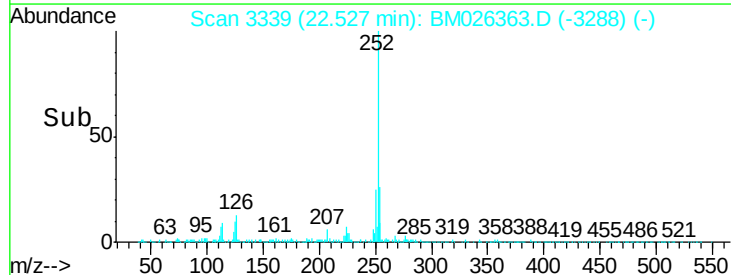
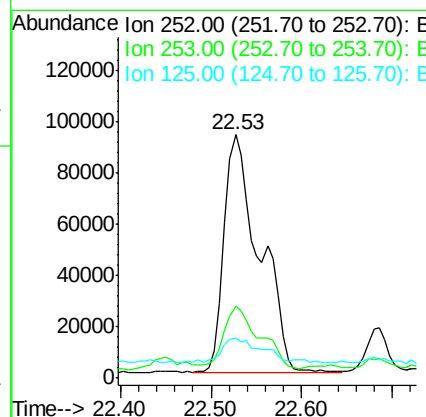
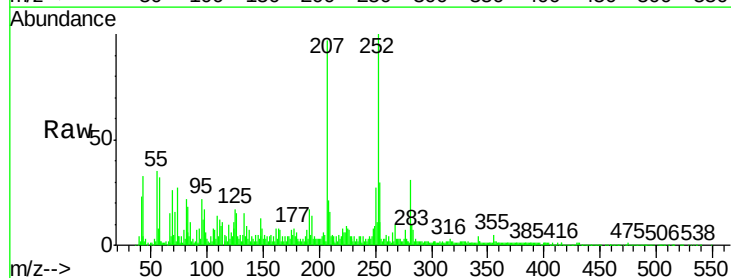
Instrument :  
 BNA\_M  
 ClientSampleId :  
 239-355

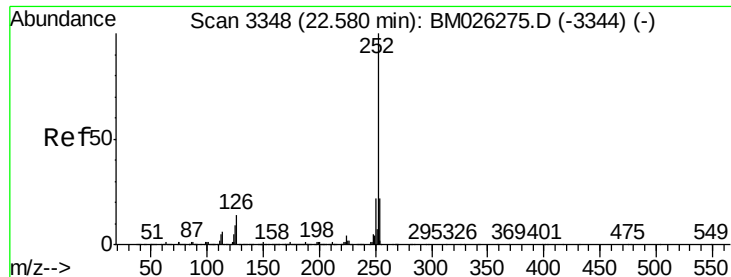
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.9  | 19.8  | 29.8  |
| 277     | 27.1  | 20.2  | 30.2  |



#88  
 Benzo(b)fluoranthene  
 Concen: 4.882 ng  
 RT: 22.53 min Scan# 3339  
 Delta R.T. -0.00 min  
 Lab File: BM026363.D  
 Acq: 11 Jun 2020 19:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.6  | 17.6  | 26.4# |
| 125     | 16.6  | 7.9   | 11.9# |





#89

Benzo(k)fluoranthene

Concen: 5.025 ng

RT: 22.53 min Scan# 3339

Delta R.T. -0.04 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampleId :

239-355

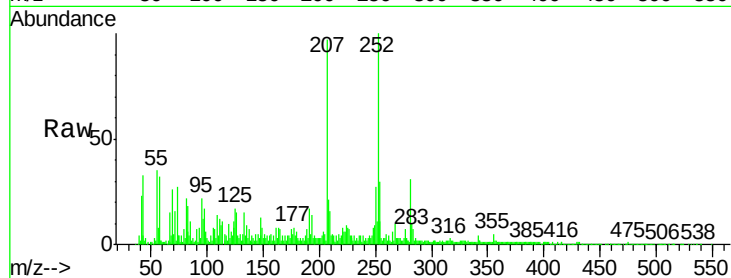
Tot Ion:252 Resp: 252776

Ion Ratio Lower Upper

252 100

253 29.6 17.3 25.9#

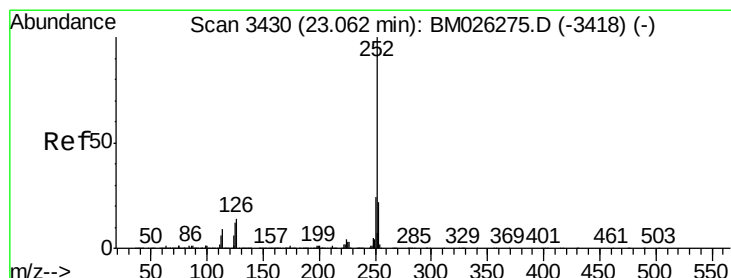
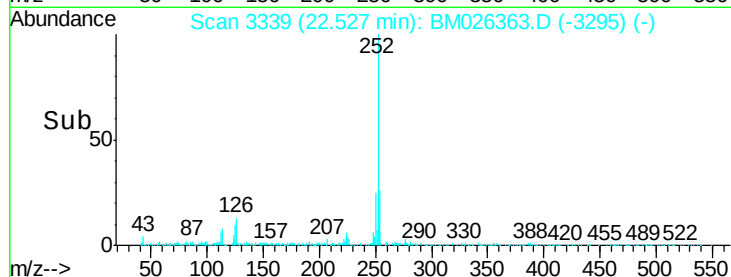
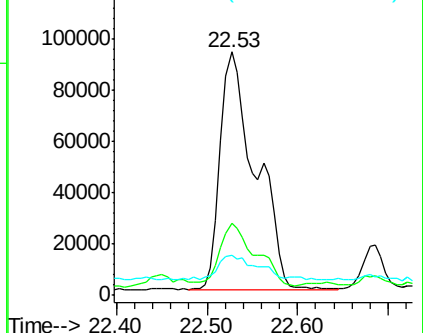
125 16.6 7.8 11.6#



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: 2.981 ng

RT: 23.05 min Scan# 3428

Delta R.T. -0.01 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

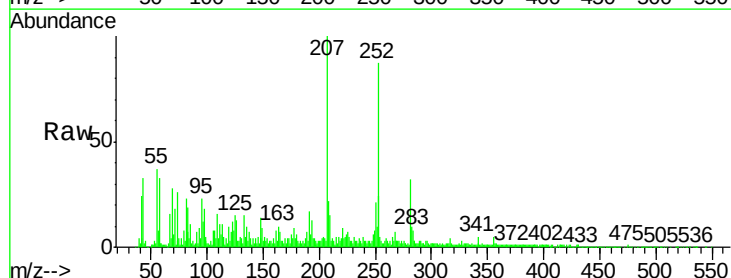
Tgt Ion:252 Resp: 137085

Ion Ratio Lower Upper

252 100

253 27.3 17.5 26.3#

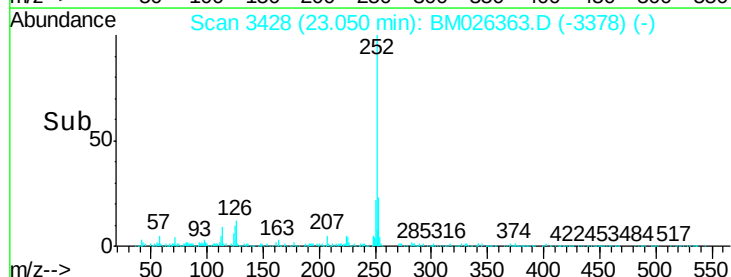
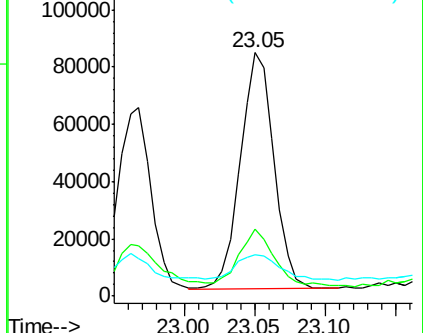
125 16.9 9.4 14.0#

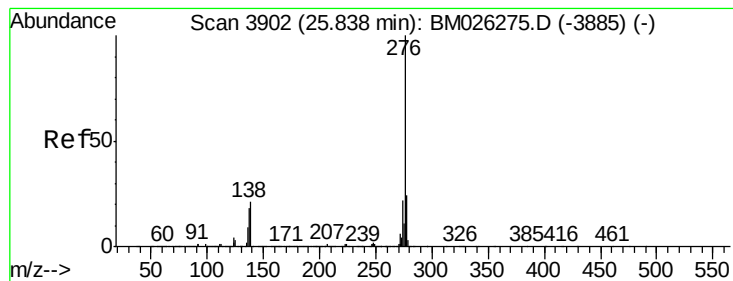


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Benzo(a,h,i)perylene

Concen: 2.929 ng

RT: 25.83 min Scan# 3900

Delta R.T. -0.00 min

Lab File: BM026363.D

Acq: 11 Jun 2020 19:25

Instrument :

BNA\_M

ClientSampleId :

239-355

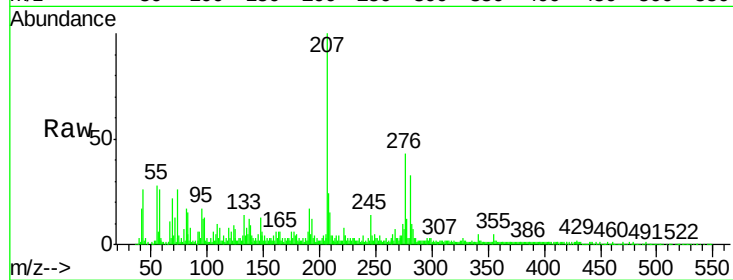
Tot Ion: 276 Resp: 115837

Ion Ratio Lower Upper

276 100

277 28.0 19.3 28.9

138 20.6 16.5 24.7



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

