

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\  
 Data File : BN009652.D  
 Acq On : 07 Feb 2020 18:38  
 Operator : CG/JU  
 Sample : L1324-18DL 30X  
 Misc :  
 ALS Vial : 47 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAT73DL

Quant Time: Feb 07 23:20:02 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN020320MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 07 15:21:46 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.43  | 152  | 147650   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.18 | 136  | 610693   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.07 | 164  | 374215   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 16.83 | 188  | 743527   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.04 | 240  | 701465   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.16 | 264  | 712114   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0     | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 6.65  | 99  | 3825  | 0.30 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.80  | 67  | 3133  | 0.36 | ng/ul | 0.01 |
| 9) 2-Chlorophenol-d4           | 6.98  | 132 | 3983  | 0.42 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.17  | 113 | 3345  | 0.33 | ng/ul | 0.02 |
| 19) Nitrobenzene-d5            | 8.60  | 128 | 1457  | 0.32 | ng/ul | 0.02 |
| 22) 2-Nitrophenol-d4           | 9.30  | 143 | 1311  | 0.26 | ng/ul | 0.02 |
| 26) 2,4-Dichlorophenol-d3      | 9.86  | 165 | 3538  | 0.37 | ng/ul | 0.04 |
| 29) 4-Chloroaniline-d4         | 10.38 | 131 | 694   | 0.07 | ng/ul | 0.05 |
| 43) Dimethylphthalate-d6       | 13.50 | 166 | 13551 | 0.50 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.76 | 160 | 15969 | 0.48 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 0.00  | 143 | 0     | 0.00 | ng/ul |      |
| 57) Fluorene-d10               | 15.07 | 176 | 13864 | 0.58 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.23 | 200 | 562   | 0.12 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 16.92 | 188 | 23852 | 0.71 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.23 | 212 | 22910 | 0.62 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.02 | 264 | 21455 | 0.61 | ng/ul | 0.00 |

## Target Compounds

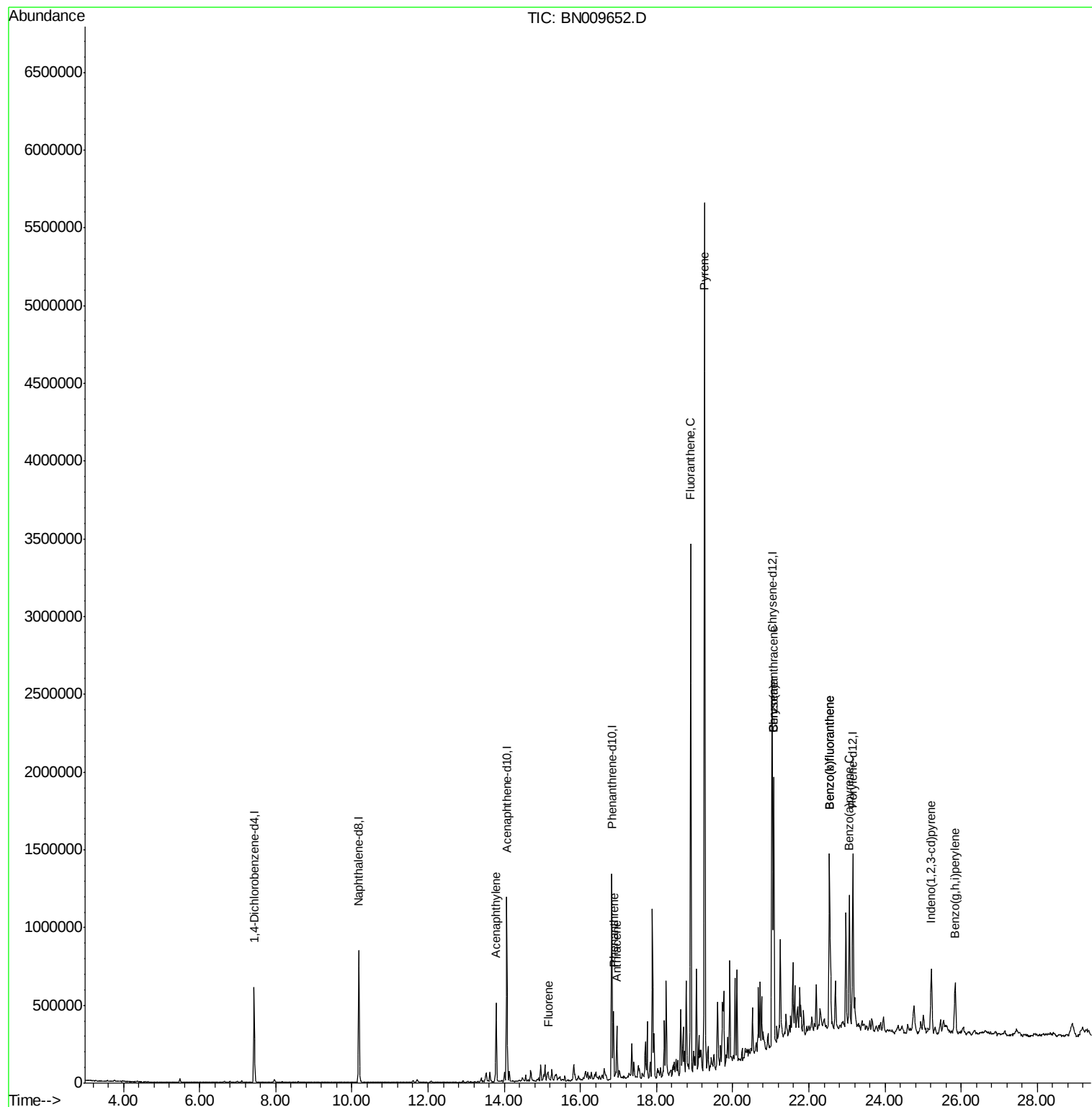
|                            |       |     |         |        | Ovalue |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| 47) Acenaphthylene         | 13.79 | 152 | 346752  | 9.599  | ng/ul  | 99  |
| 58) Fluorene               | 15.15 | 166 | 30143   | 1.055  | ng/ul# | 68  |
| 69) Phenanthrene           | 16.87 | 178 | 246774  | 5.820  | ng/ul  | 98  |
| 71) Anthracene             | 16.96 | 178 | 205178  | 4.769  | ng/ul  | 99  |
| 76) Fluoranthene           | 18.90 | 202 | 1906897 | 39.403 | ng/ul  | 100 |
| 79) Pyrene                 | 19.26 | 202 | 3207339 | 62.635 | ng/ul  | 97  |
| 82) Benzo(a)anthracene     | 21.07 | 228 | 894847  | 18.476 | ng/ul  | 93  |
| 84) Chrysene               | 21.07 | 228 | 895142  | 18.565 | ng/ul  | 98  |
| 87) Benzo(b)fluoranthene   | 22.54 | 252 | 996816  | 22.373 | ng/ul  | 98  |
| 88) Benzo(k)fluoranthene   | 22.54 | 252 | 996816  | 22.718 | ng/ul  | 98  |
| 90) Benzo(a)pyrene         | 23.06 | 252 | 446671  | 10.821 | ng/ul  | 96  |
| 91) Indeno(1,2,3-cd)pyrene | 25.22 | 276 | 338196  | 6.891  | ng/ul  | 92  |
| 93) Benzo(g,h,i)perylene   | 25.84 | 276 | 338091  | 8.220  | ng/ul  | 96  |

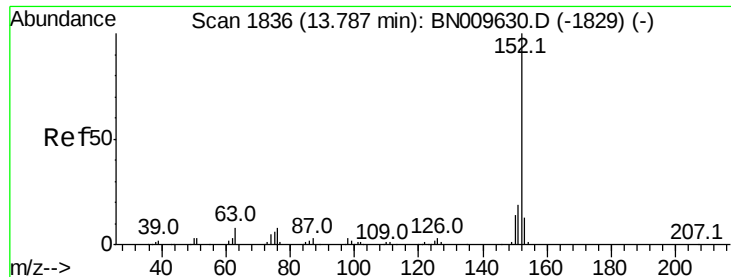
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 15:21:46 2020  
Response via : Initial Calibration





#47

Acenaphthylene

Concen: 9.599 ng/ul

RT: 13.79 min Scan# 1836

Delta R.T. -0.00 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

Instrument :

BNA\_N

ClientSampleId :

GAT73DL

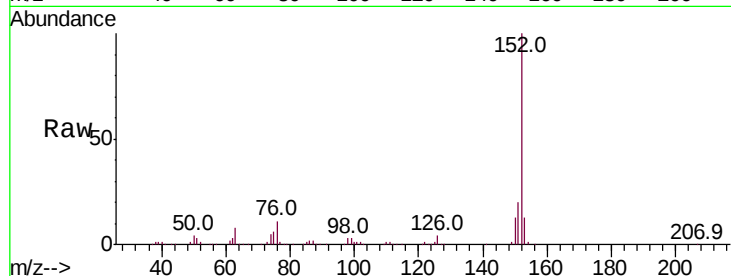
Tot Ion:152 Resp: 346752

Ion Ratio Lower Upper

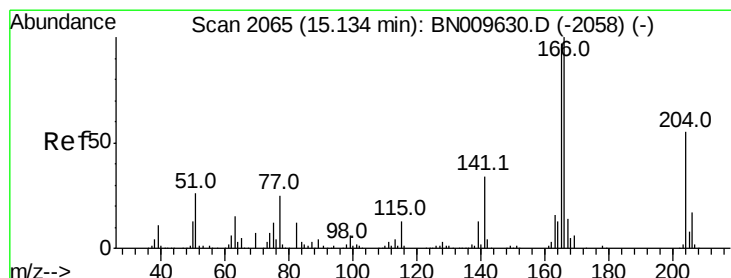
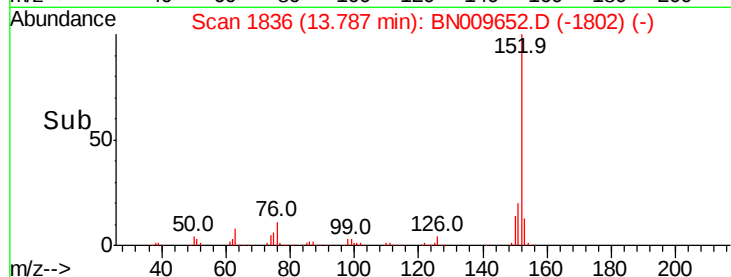
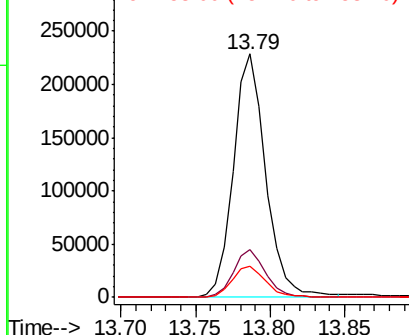
152 100

151 19.7 16.2 24.2

153 12.8 10.6 15.8



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



#58

Fluorene

Concen: 1.055 ng/ul

RT: 15.15 min Scan# 2068

Delta R.T. 0.02 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

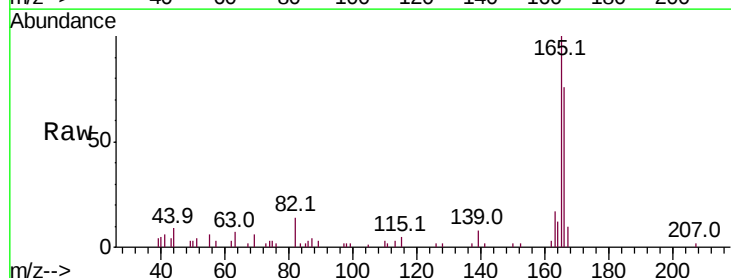
Tgt Ion:166 Resp: 30143

Ion Ratio Lower Upper

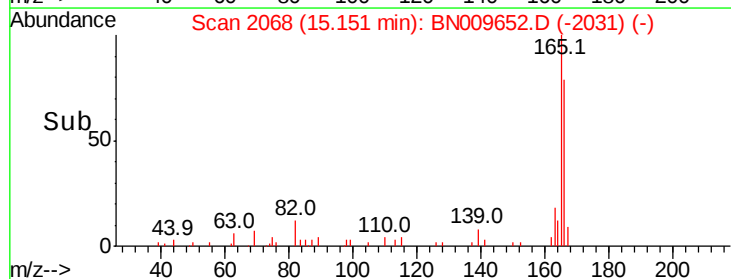
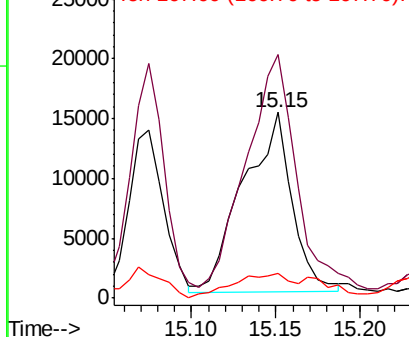
166 100

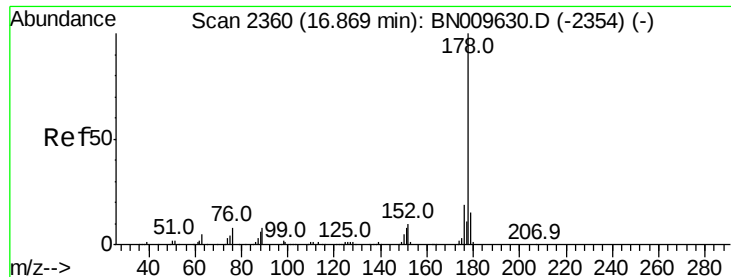
165 131.1 76.7 115.1#

167 13.2 11.1 16.7



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





#69

Phenanthrene

Concen: 5.820 ng/ul

RT: 16.87 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

Instrument :

BNA\_N

ClientSampleId :

GAT73DL

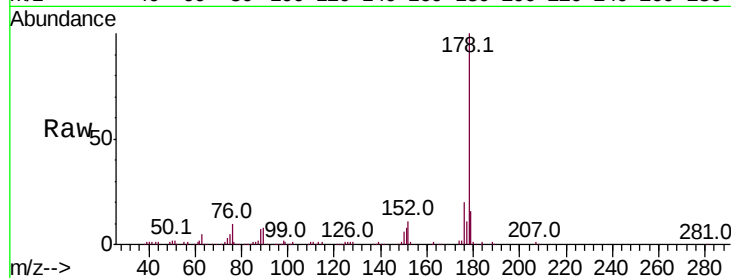
Tot Ion:178 Resp: 246774

Ion Ratio Lower Upper

178 100

179 15.9 12.2 18.2

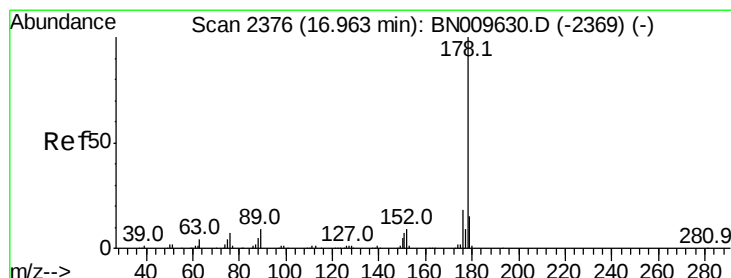
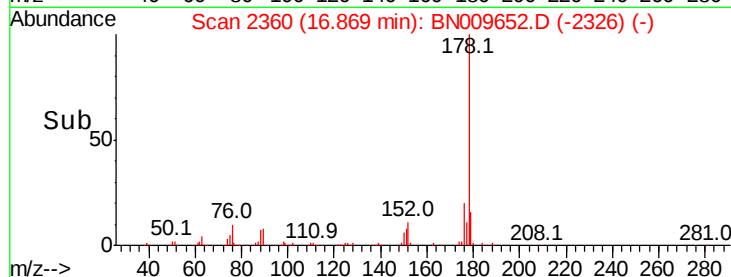
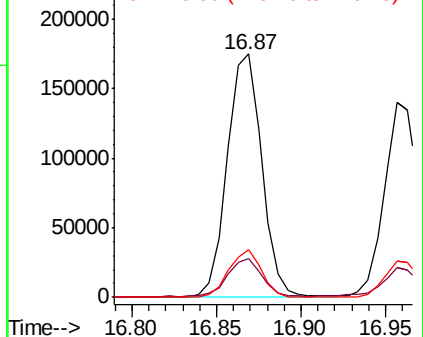
176 19.7 14.8 22.2



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: 4.769 ng/ul

RT: 16.96 min Scan# 2375

Delta R.T. -0.01 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

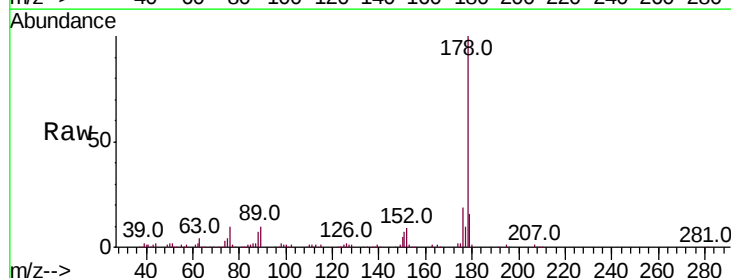
Tgt Ion:178 Resp: 205178

Ion Ratio Lower Upper

178 100

179 15.5 12.1 18.1

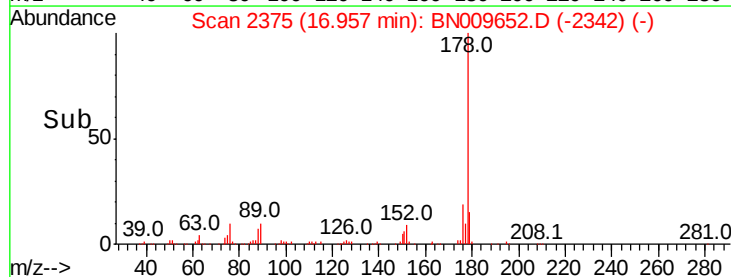
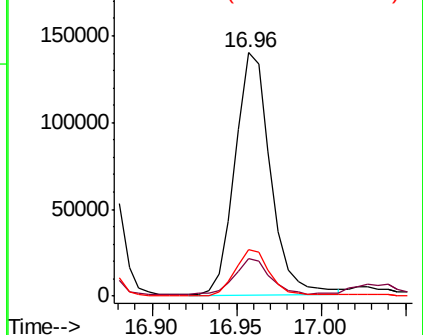
176 18.9 14.6 21.8

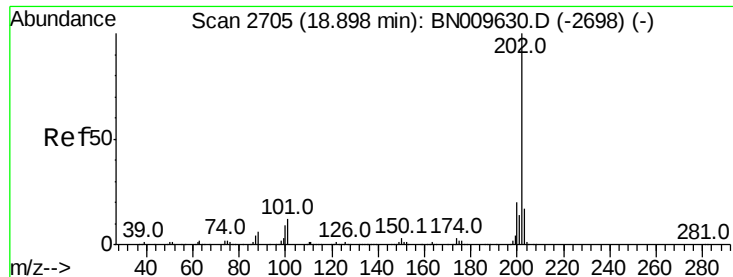


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Fluoranthene

Concen: 39.403 ng/ul

RT: 18.90 min Scan# 2705

Delta R.T. -0.00 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

Instrument :

BNA\_N

ClientSampleId :

GAT73DL

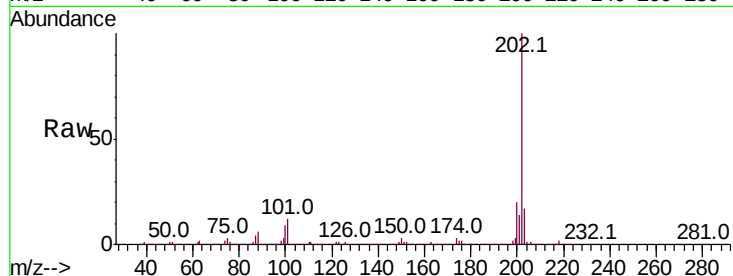
Tot Ion:202 Resp: 1906897

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 11.7  | 9.2   | 13.8  |
| 100 | 8.6   | 6.9   | 10.3  |

202 100

101 11.7 9.2 13.8

100 8.6 6.9 10.3

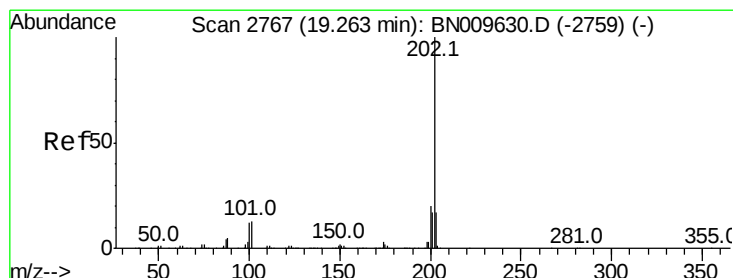
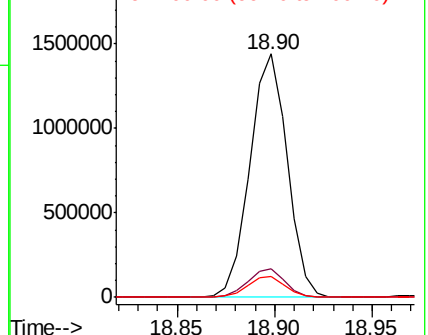
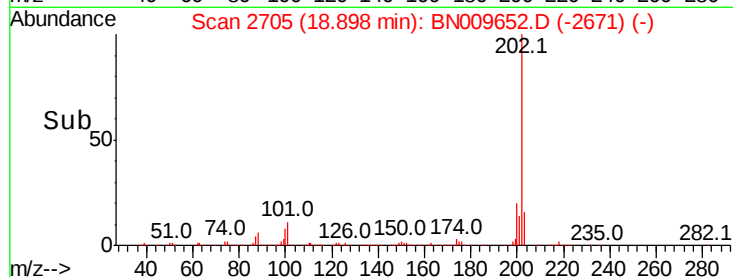


Abundance

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): B



#79

Pyrene

Concen: 62.635 ng/ul

RT: 19.26 min Scan# 2767

Delta R.T. -0.00 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

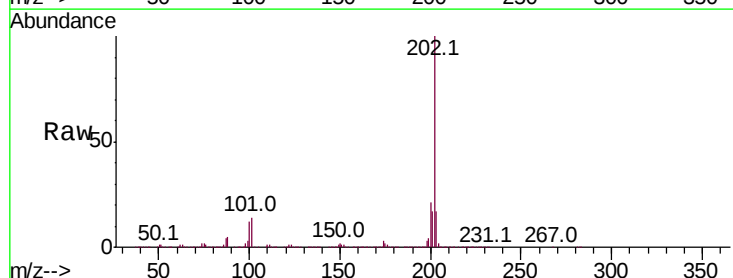
Tgt Ion:202 Resp: 3207339

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.8  | 10.3  | 15.5  |
| 100 | 11.9  | 8.4   | 12.6  |

202 100

101 13.8 10.3 15.5

100 11.9 8.4 12.6

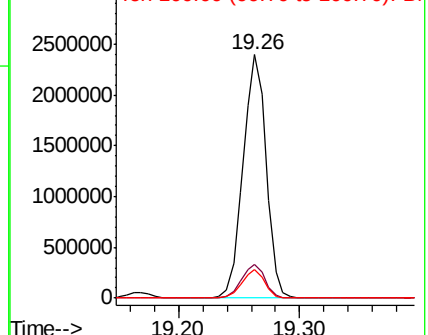
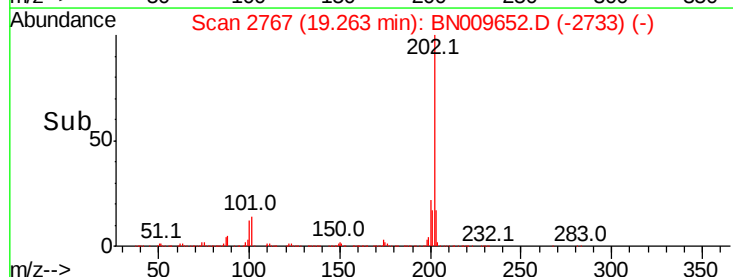


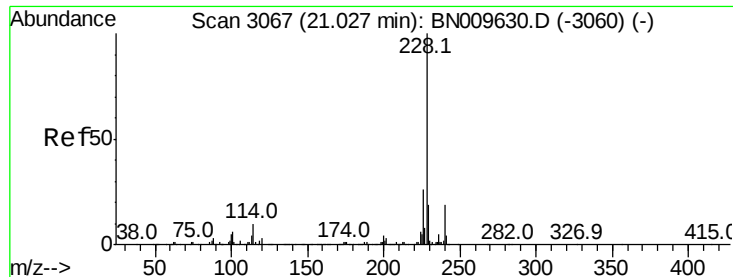
Abundance

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): B





#82

Benzo(a)anthracene

Concen: 18.476 ng/ul

RT: 21.07 min Scan# 3075

Delta R.T. 0.04 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

Instrument :

BNA\_N

ClientSampleId :

GAT73DL

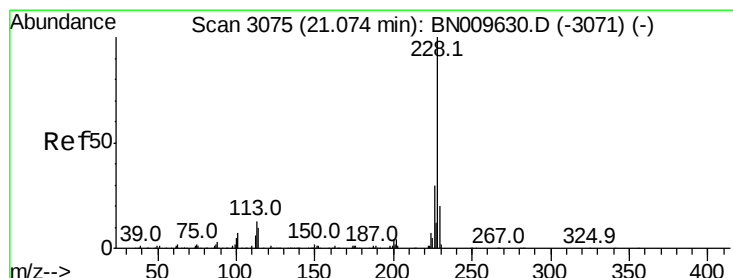
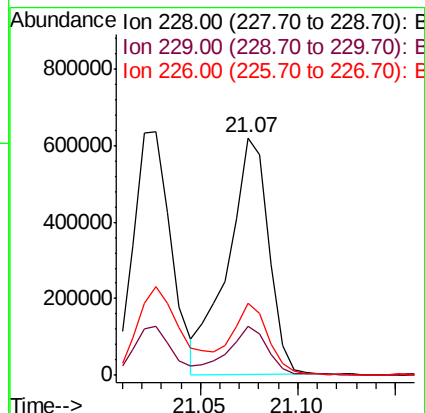
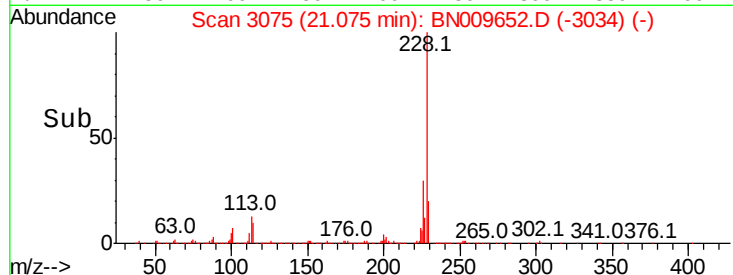
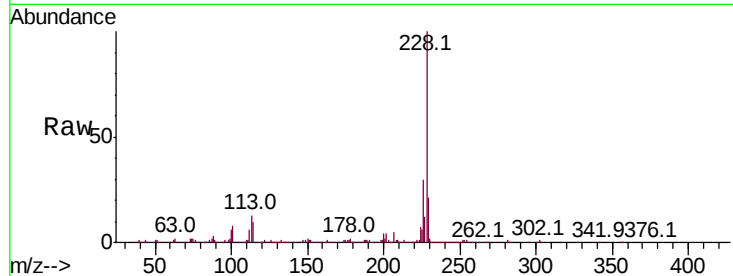
Tot Ion:228 Resp: 894847

Ion Ratio Lower Upper

228 100

229 20.6 15.0 22.4

226 30.4 20.9 31.3



#84

Chrysene

Concen: 18.565 ng/ul

RT: 21.07 min Scan# 3075

Delta R.T. -0.01 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

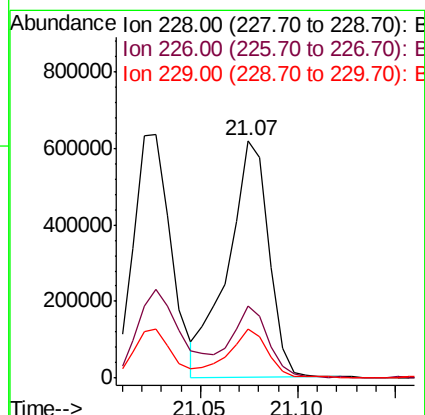
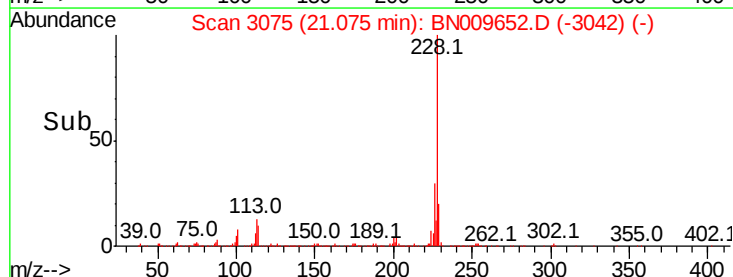
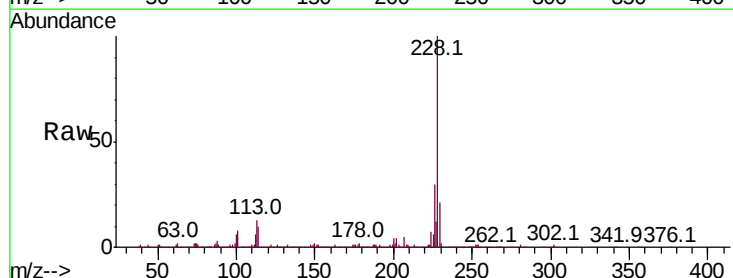
Tgt Ion:228 Resp: 895142

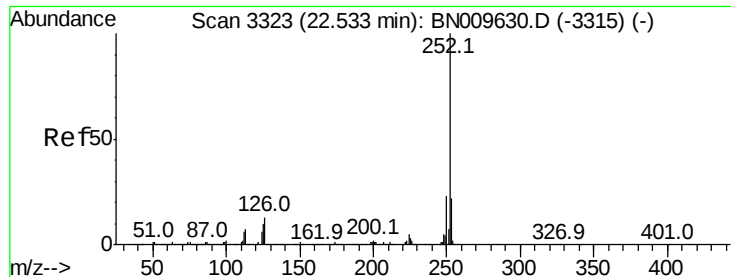
Ion Ratio Lower Upper

228 100

226 30.4 23.5 35.3

229 20.6 15.8 23.8





#87

Benzo(b)fluoranthene

Concen: 22.373 ng/ul

RT: 22.54 min Scan# 3324

Delta R.T. -0.01 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

Instrument :

BNA\_N

ClientSampleId :

GAT73DL

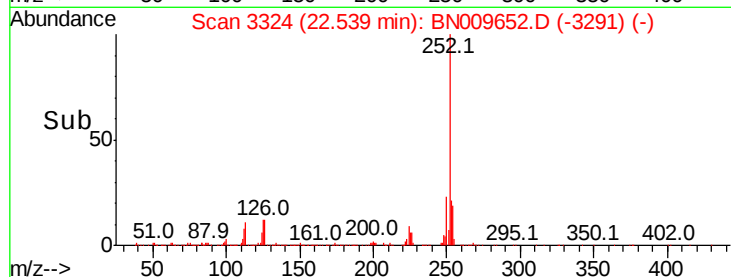
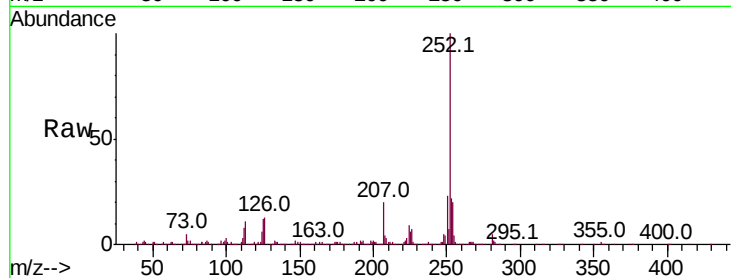
Tot Ion:252 Resp: 996816

Ion Ratio Lower Upper

252 100

253 21.7 17.0 25.6

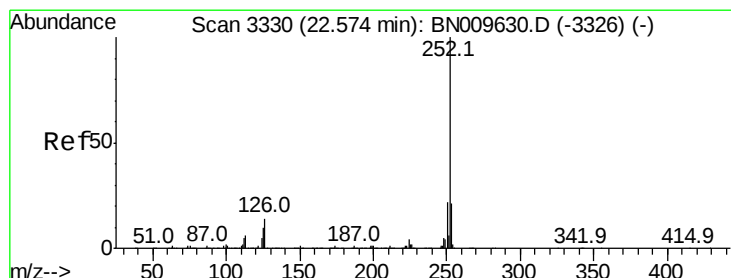
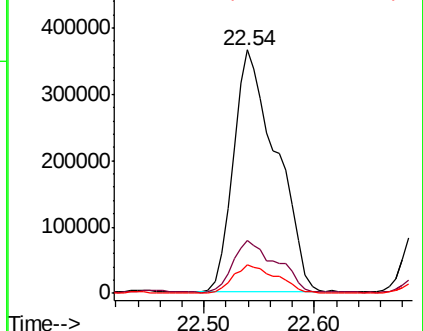
125 11.8 8.2 12.2



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



#88

Benzo(k)fluoranthene

Concen: 22.718 ng/ul

RT: 22.54 min Scan# 3324

Delta R.T. -0.05 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

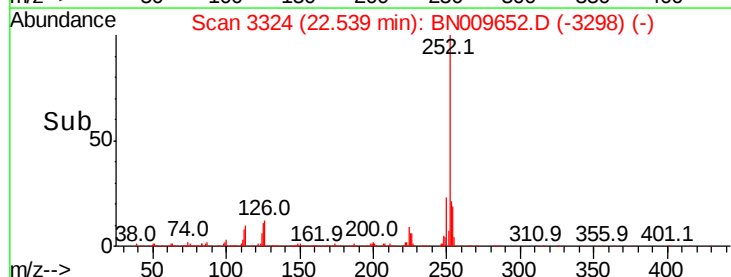
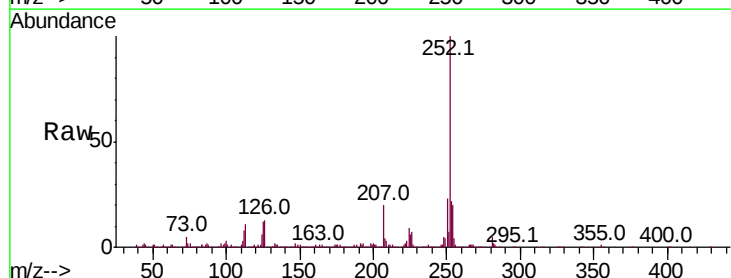
Tgt Ion:252 Resp: 996816

Ion Ratio Lower Upper

252 100

253 21.7 17.0 25.4

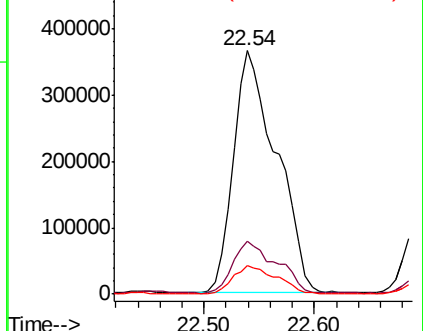
125 11.8 8.0 12.0

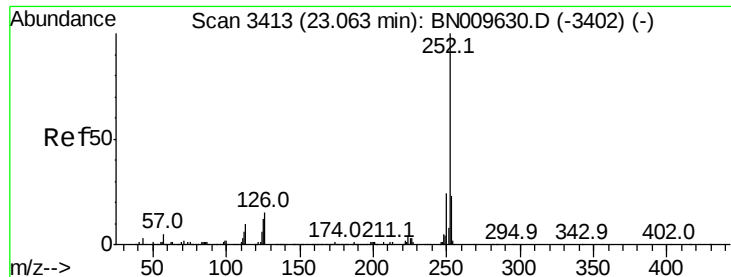


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

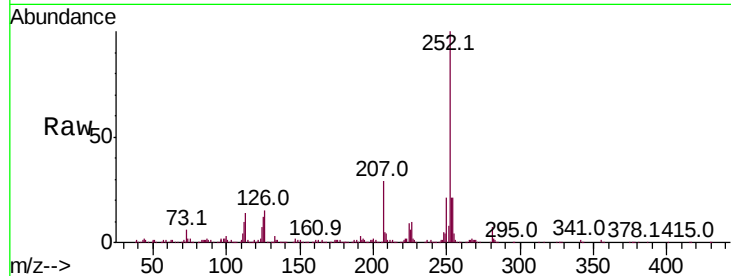




#90  
Benzo(a)pyrene  
Concen: 10.821 ng/ul  
RT: 23.06 min Scan# 3413  
Delta R.T. -0.01 min  
Lab File: BN009652.D  
Acq: 07 Feb 2020 18:38

Instrument :  
BNA\_N  
ClientSampleId :  
GAT73DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 15.8  | 23.8  |
| 125     | 12.2  | 8.7   | 13.1  |

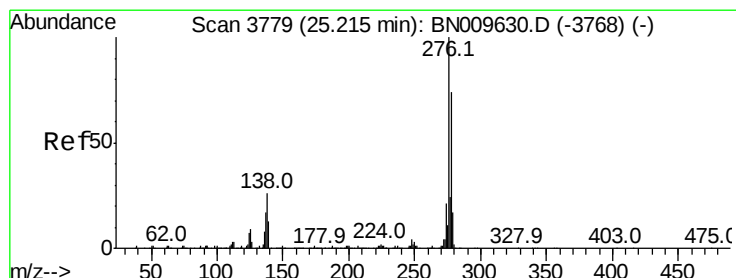
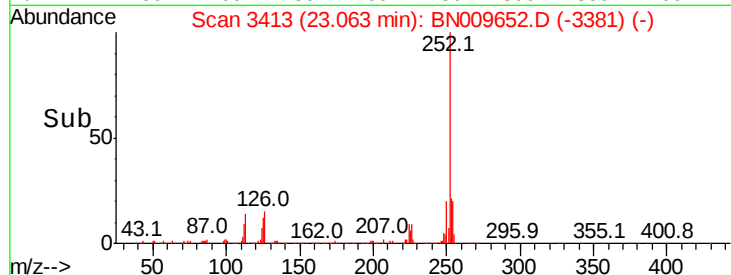
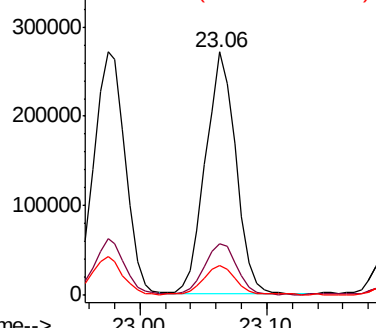


Abundance

Ion 252.00 (251.70 to 252.70): E

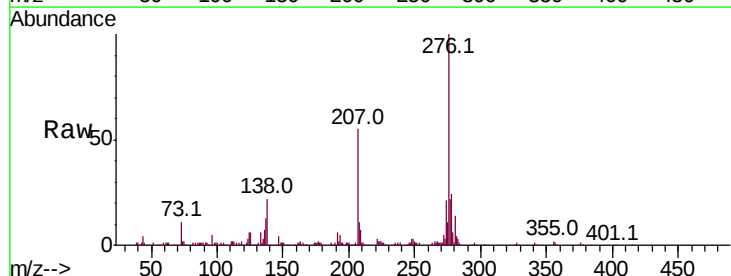
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91  
Indeno(1,2,3-cd)pyrene  
Concen: 6.891 ng/ul  
RT: 25.22 min Scan# 3779  
Delta R.T. -0.02 min  
Lab File: BN009652.D  
Acq: 07 Feb 2020 18:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.6  | 20.3  | 30.5  |
| 277     | 22.4  | 21.2  | 31.8  |

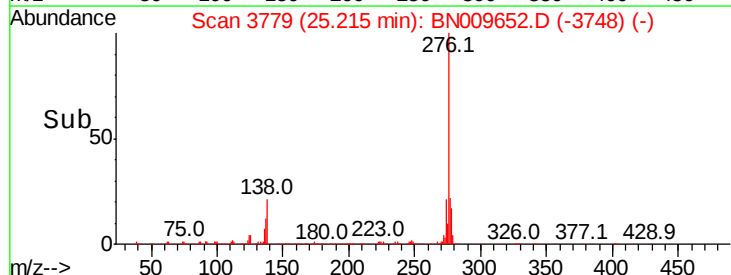
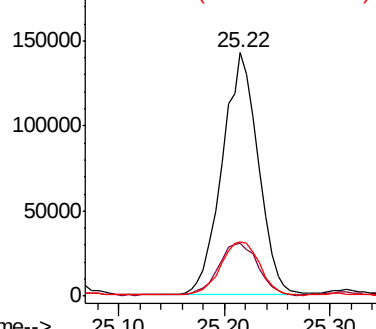


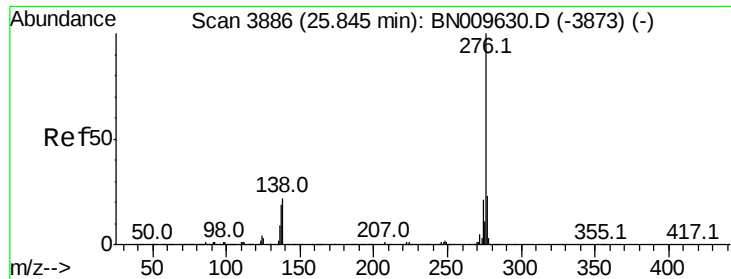
Abundance

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





#93

Benzo(a,h,i)perylene

Concen: 8.220 ng/ul

RT: 25.84 min Scan# 3885

Delta R.T. -0.02 min

Lab File: BN009652.D

Acq: 07 Feb 2020 18:38

Instrument :

BNA\_N

ClientSampleId :

GAT73DL

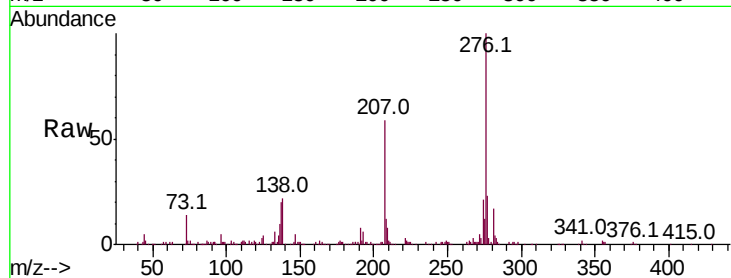
Tot Ion:276 Resp: 338091

Ion Ratio Lower Upper

276 100

138 22.1 16.0 24.0

277 22.7 17.0 25.6



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

