

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\  
 Data File : BM022330.D  
 Acq On : 26 Aug 2019 14:43  
 Operator : HP/JU  
 Sample : K4373-11DL 20X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 27 11:00:07 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM082219MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 27 10:56:53 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.55  | 152  | 11158    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.48 | 136  | 10820    | 20.00 | ng/ul | 0.15     |
| 35) Acenaphthene-d10      | 0.00  | 164  | 0        | 0.00  | ng/ul | -14.21   |
| 61) Phenanthrene-d10      | 16.97 | 188  | 90494    | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.18 | 240  | 82149    | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.37 | 264  | 74550    | 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                   | 0.00  | 99  | 0     | 0.00  | ng/ul |       |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.92  | 67  | 1380  | 2.46  | ng/ul | 0.01  |
| 9) 2-Chlorophenol-d4           | 7.10  | 132 | 1688  | 2.17  | ng/ul | 0.01  |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 999   | 1.20  | ng/ul | 0.01  |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 1100  | 13.63 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.44  | 143 | 900   | 9.58  | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.97  | 165 | 2770  | 14.49 | ng/ul | 0.01  |
| 29) 4-Chloroaniline-d4         | 10.50 | 131 | 1243  | 5.35  | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 13.63 | 166 | 12187 | 0.00  | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 13.90 | 160 | 12408 | 0.00  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.42 | 143 | 867   | 0.00  | ng/ul | -0.05 |
| 57) Fluorene-d10               | 15.21 | 176 | 11070 | 0.00  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 733   | 1.05  | ng/ul | 0.02  |
| 70) Anthracene-d10             | 17.07 | 188 | 18220 | 3.80  | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.37 | 212 | 21216 | 4.97  | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.23 | 264 | 15226 | 3.72  | ng/ul | 0.00  |

## Target Compounds

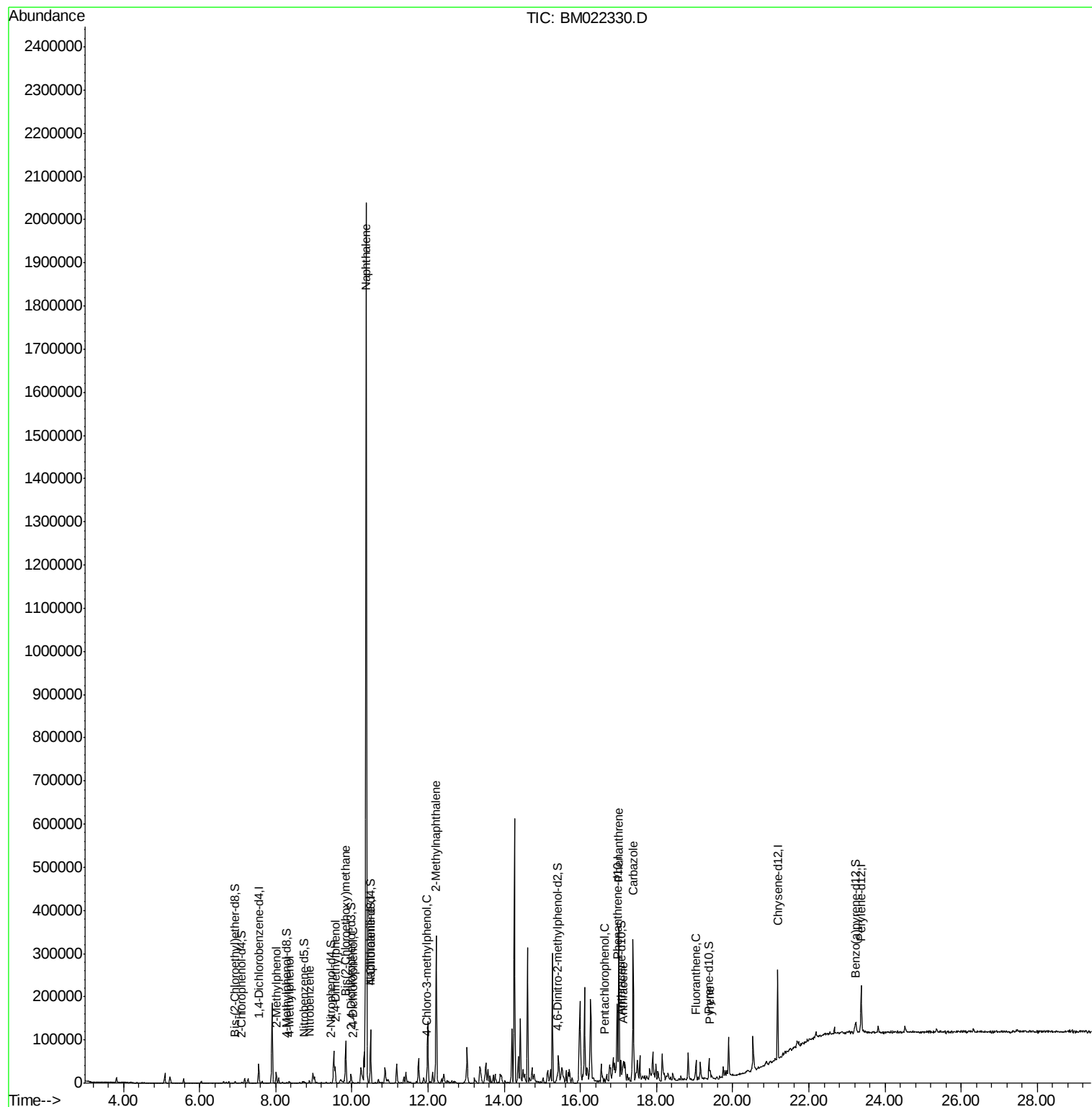
|                                |       |     |         |          | Ovalue |    |
|--------------------------------|-------|-----|---------|----------|--------|----|
| 11) 2-Methylphenol             | 8.02  | 108 | 6891    | 8.486    | ng/ul  | 97 |
| 16) 4-Methylphenol             | 8.35  | 108 | 1989    | 2.228    | ng/ul  | 89 |
| 20) Nitrobenzene               | 8.89  | 77  | 732     | 3.081    | ng/ul# | 44 |
| 24) 2,4-Dimethylphenol         | 9.56  | 107 | 9220    | 38.119   | ng/ul  | 93 |
| 25) Bis(2-Chloroethoxy)methane | 9.83  | 93  | 1316    | 5.629    | ng/ul# | 3  |
| 27) 2,4-Dichlorophenol         | 10.03 | 162 | 764     | 3.945    | ng/ul# | 76 |
| 28) Naphthalene                | 10.37 | 128 | 1335146 | 2235.992 | ng/ul  | 99 |
| 33) 4-Chloro-3-methylphenol    | 11.96 | 107 | 530     | 2.479    | ng/ul# | 21 |
| 34) 2-Methylnaphthalene        | 12.22 | 142 | 134837  | 293.083  | ng/ul  | 99 |
| 68) Pentachlorophenol          | 16.63 | 266 | 1703    | 1.953    | ng/ul  | 94 |
| 69) Phenanthrene               | 17.01 | 178 | 172365  | 31.838   | ng/ul  | 99 |
| 71) Anthracene                 | 17.10 | 178 | 14079   | 2.499    | ng/ul  | 99 |
| 74) Carbazole                  | 17.39 | 167 | 155873  | 30.633   | ng/ul  | 98 |
| 76) Fluoranthene               | 19.04 | 202 | 23965   | 2.938    | ng/ul# | 94 |
| 79) Pyrene                     | 19.40 | 202 | 14188   | 2.668    | ng/ul  | 98 |

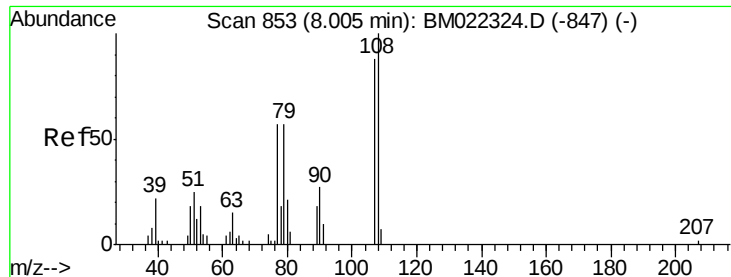
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_M  
ClientSampleId :

Quant Time: Aug 27 11:00:07 2019  
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Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 27 10:56:53 2019  
Response via : Initial Calibration

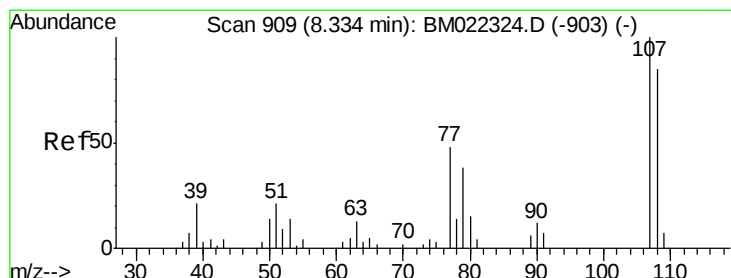
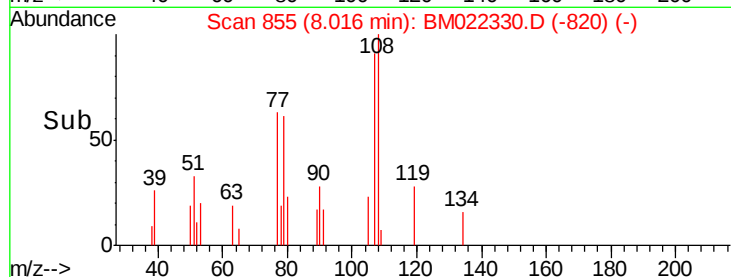
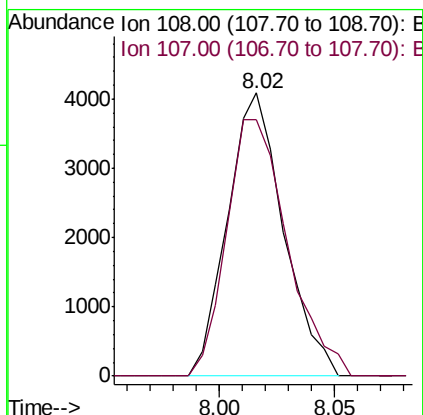
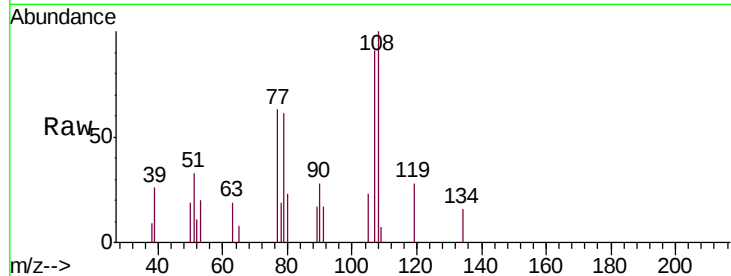




#11  
2-Methylphenol  
Concen: 8.486 ng/ul  
RT: 8.02 min Scan# 855  
Delta R.T. 0.01 min  
Lab File: BM022330.D  
Acq: 26 Aug 2019 14:43

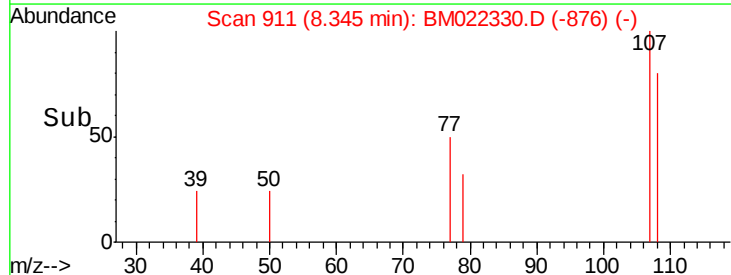
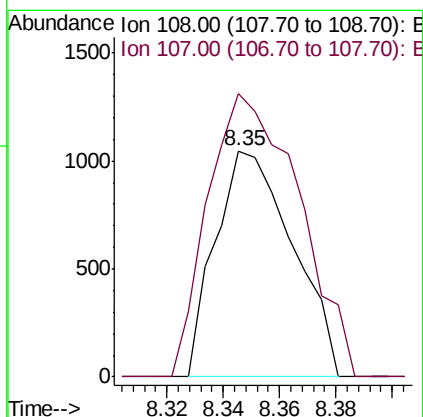
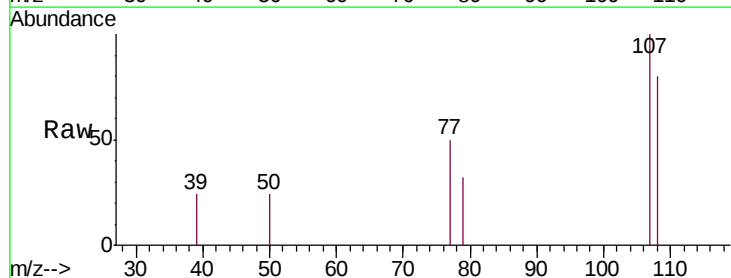
Instrument :  
BNA\_M  
ClientSampleId :

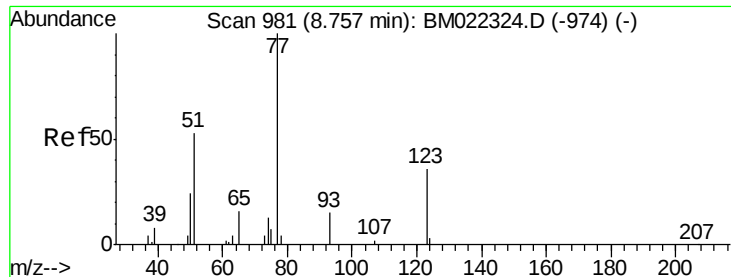
Tot Ion:108 Resp: 6891  
Ion Ratio Lower Upper  
108 100  
107 90.5 70.1 105.1



#16  
4-Methylphenol  
Concen: 2.228 ng/ul  
RT: 8.35 min Scan# 911  
Delta R.T. 0.01 min  
Lab File: BM022330.D  
Acq: 26 Aug 2019 14:43

Tgt Ion:108 Resp: 1989  
Ion Ratio Lower Upper  
108 100  
107 125.2 90.8 136.2

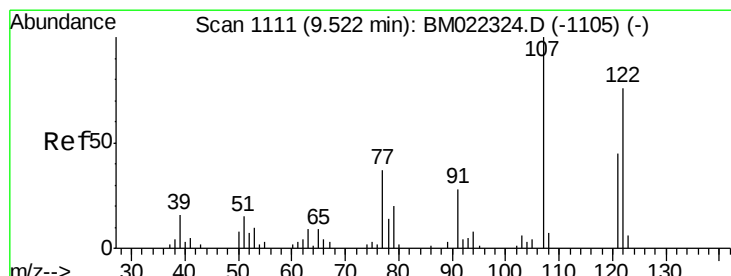
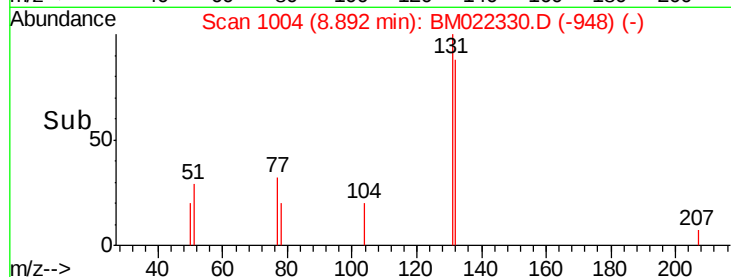
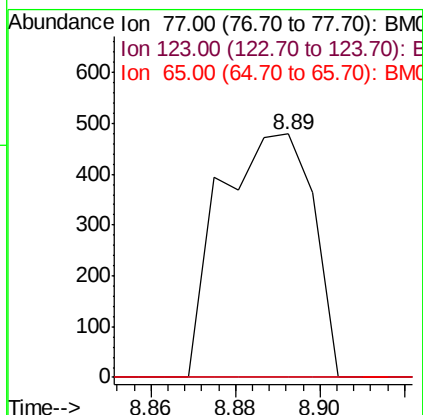
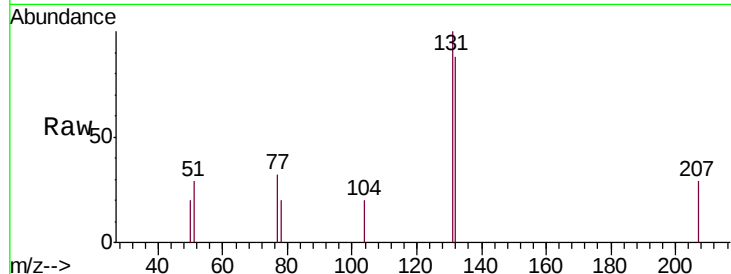




#20  
Nitrobenzene  
Concen: 3.081 ng/ul  
RT: 8.89 min Scan# 1004  
Delta R.T. 0.13 min  
Lab File: BM022330.D  
Acq: 26 Aug 2019 14:43

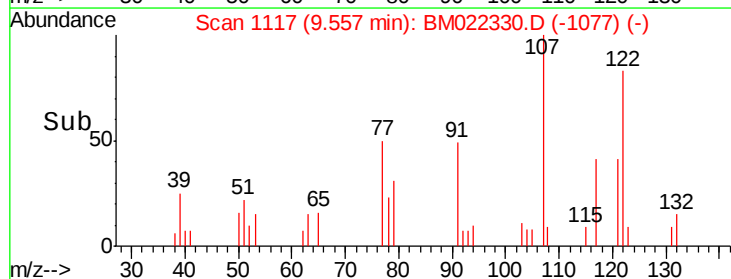
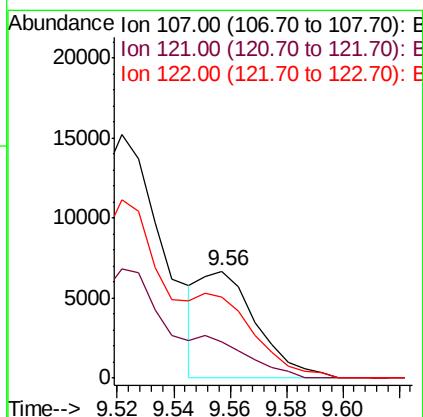
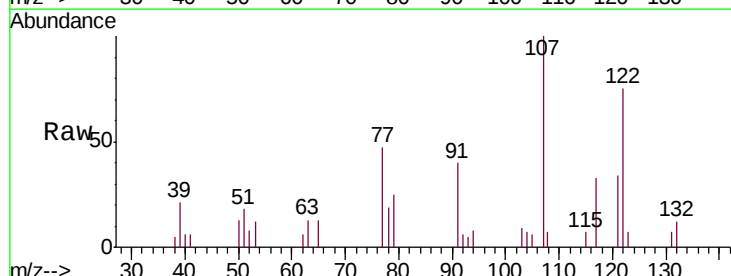
Instrument :  
BNA\_M  
ClientSampleId :

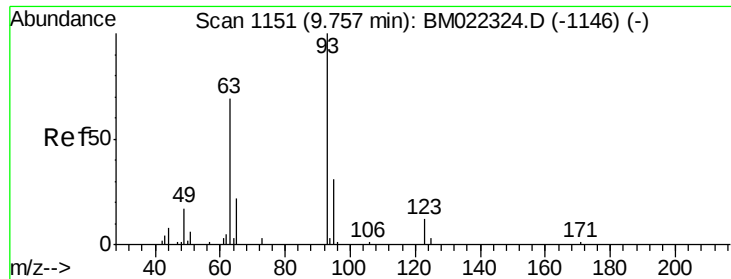
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 0.0   | 31.0  | 46.4# |
| 65      | 0.0   | 12.2  | 18.2# |



#24  
2,4-Dimethylphenol  
Concen: 38.119 ng/ul  
RT: 9.56 min Scan# 1117  
Delta R.T. 0.04 min  
Lab File: BM022330.D  
Acq: 26 Aug 2019 14:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 121     | 33.7  | 33.6  | 50.4  |
| 122     | 75.1  | 58.0  | 87.0  |





#25

Bis(2-Chloroethoxy)methane

Concen: 5.629 ng/ul

RT: 9.83 min Scan# 1164

Delta R.T. 0.07 min

Lab File: BM022330.D

Acq: 26 Aug 2019 14:43

Instrument :

BNA\_M

ClientSampleId :

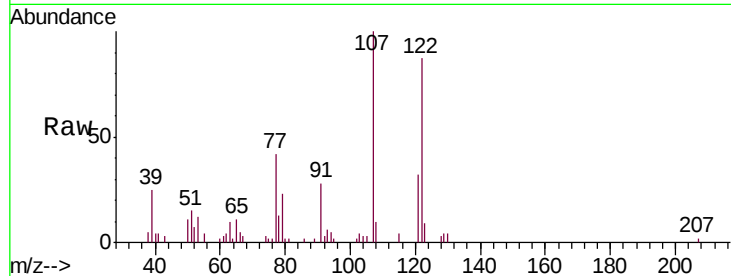
Tot Ion: 93 Resp: 1316

Ion Ratio Lower Upper

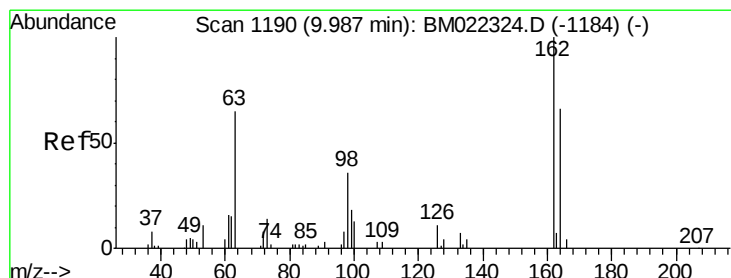
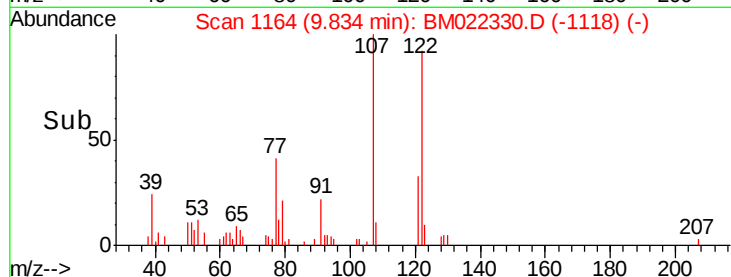
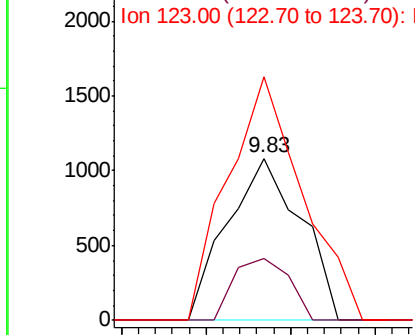
93 100

95 38.3 26.5 39.7

123 150.4 8.4 12.6#



Abundance Ion 93.00 (92.70 to 93.70): BM0  
Ion 95.00 (94.70 to 95.70): BM0  
Ion 123.00 (122.70 to 123.70): E



#27

2,4-Dichlorophenol

Concen: 3.945 ng/ul

RT: 10.03 min Scan# 1198

Delta R.T. 0.04 min

Lab File: BM022330.D

Acq: 26 Aug 2019 14:43

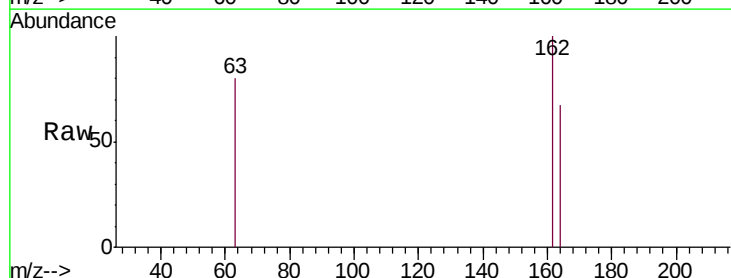
Tgt Ion:162 Resp: 764

Ion Ratio Lower Upper

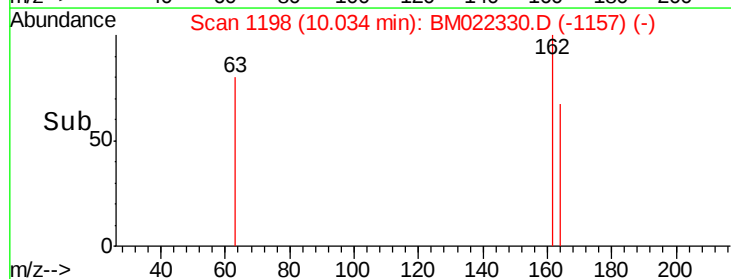
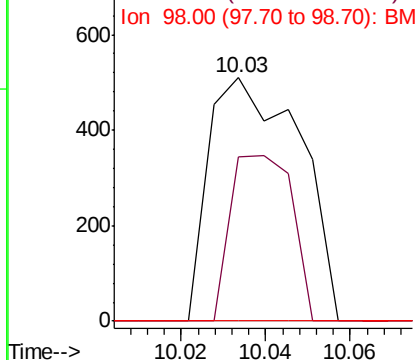
162 100

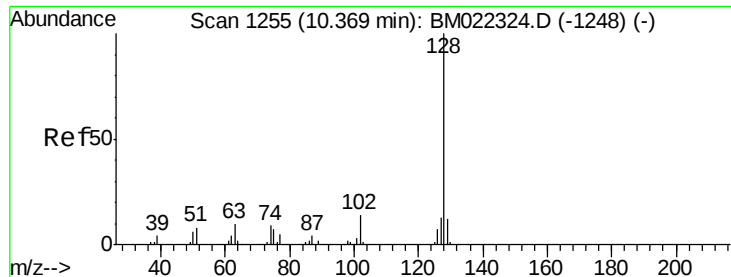
164 67.3 52.1 78.1

98 0.0 29.2 43.8#



Abundance Ion 162.00 (161.70 to 162.70): E  
Ion 164.00 (163.70 to 164.70): E  
Ion 98.00 (97.70 to 98.70): BM0





#28

Naphthalene

Concen: 2235.992 ng/ul

RT: 10.37 min Scan# 1256

Delta R.T. 0.00 min

Lab File: BM022330.D

Acq: 26 Aug 2019 14:43

Instrument :

BNA\_M

ClientSampled :

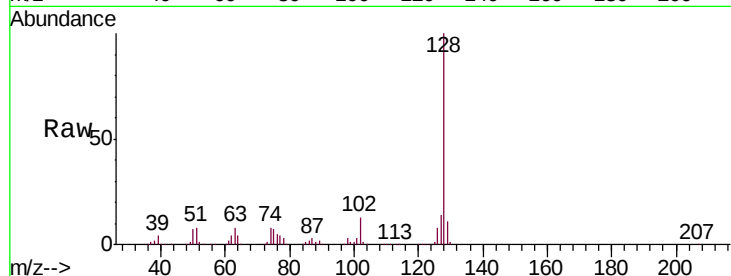
Tot Ion:128 Resp: 1335146

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

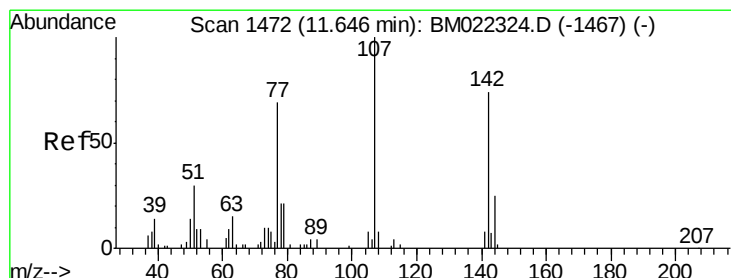
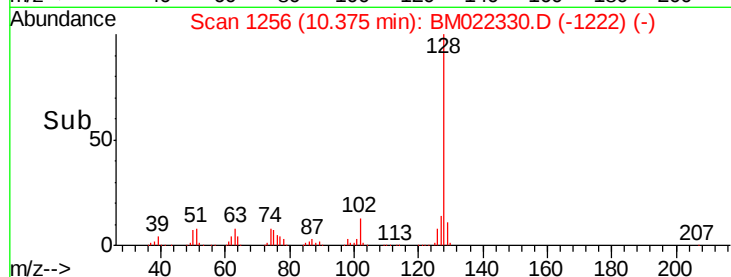
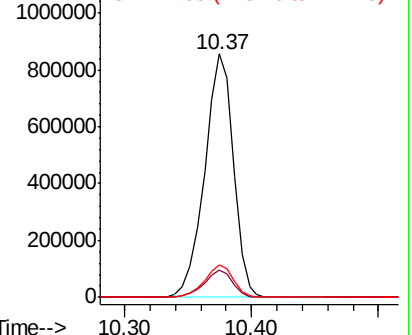
127 13.6 10.4 15.6



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



#33

4-Chloro-3-methylphenol

Concen: 2.479 ng/ul

RT: 11.96 min Scan# 1525

Delta R.T. 0.31 min

Lab File: BM022330.D

Acq: 26 Aug 2019 14:43

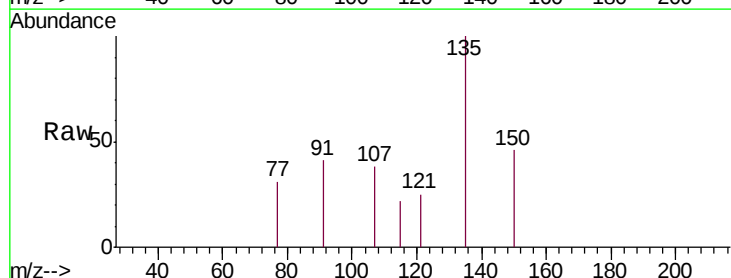
Tgt Ion:107 Resp: 530

Ion Ratio Lower Upper

107 100

144 0.0 19.8 29.8#

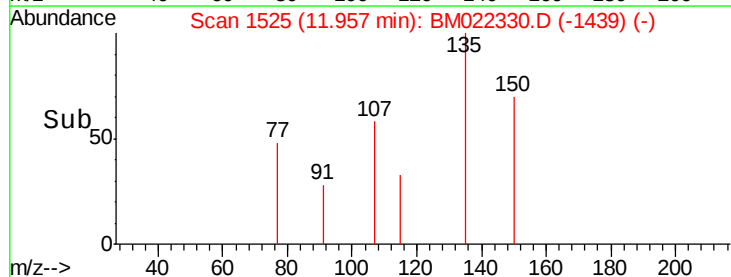
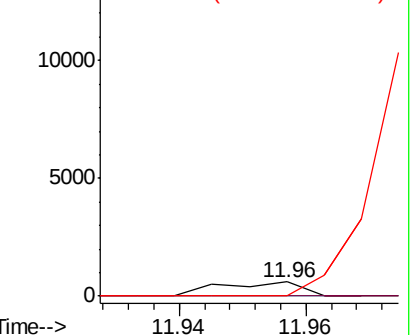
142 0.0 61.5 92.3#

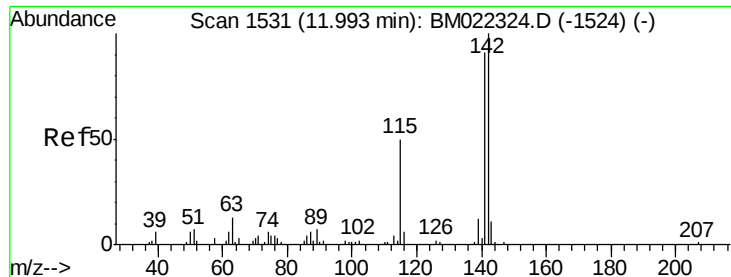


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

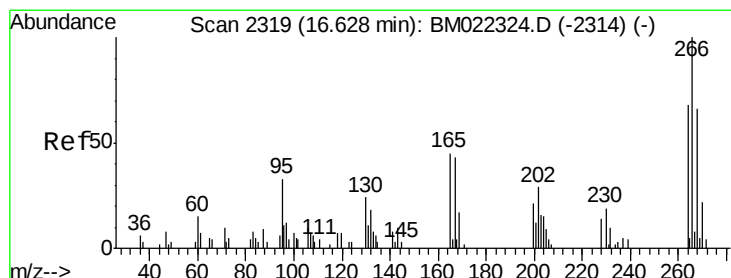
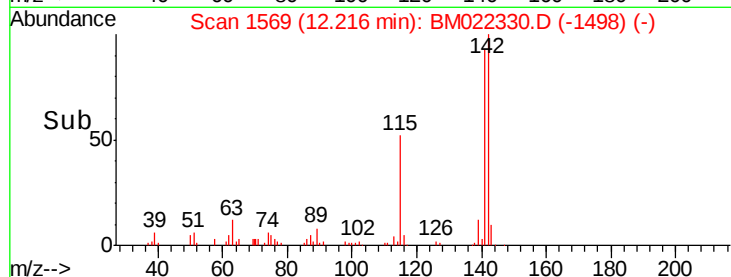
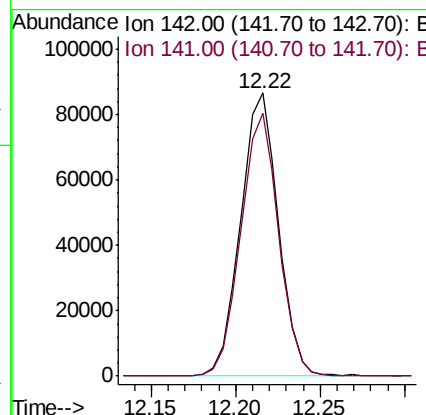
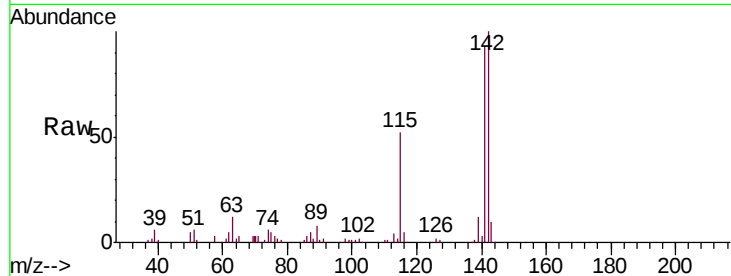




#34  
 2-Methylnaphthalene  
 Concen: 293.083 ng/ul  
 RT: 12.22 min Scan# 1569  
 Delta R.T. 0.22 min  
 Lab File: BM022330.D  
 Acq: 26 Aug 2019 14:43

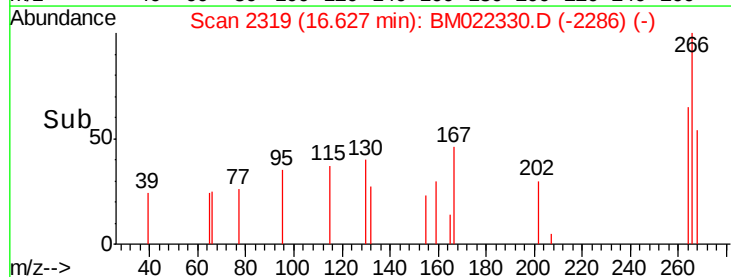
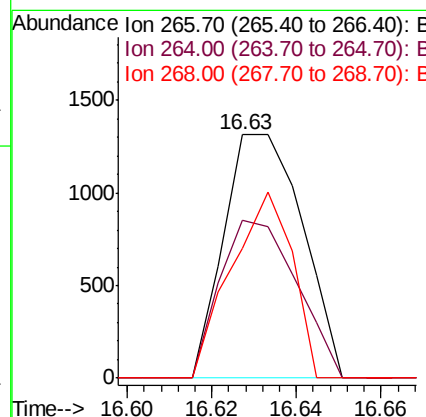
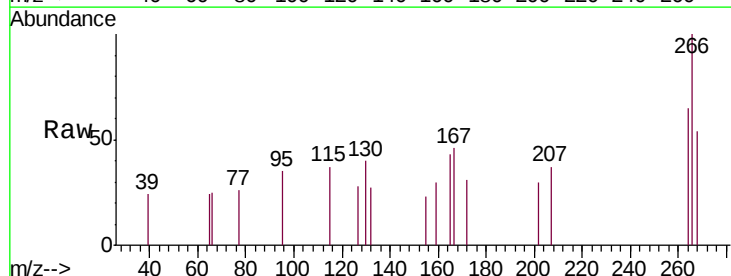
Instrument :  
 BNA\_M  
 ClientSampled :

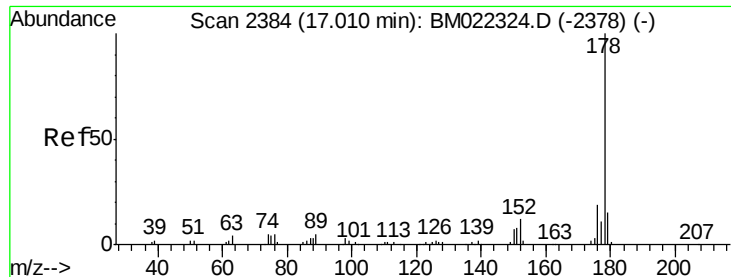
Tot Ion:142 Resp: 134837  
 Ion Ratio Lower Upper  
 142 100  
 141 92.8 75.1 112.7



#68  
 Pentachlorophenol  
 Concen: 1.953 ng/ul  
 RT: 16.63 min Scan# 2319  
 Delta R.T. -0.01 min  
 Lab File: BM022330.D  
 Acq: 26 Aug 2019 14:43

Tgt Ion:266 Resp: 1703  
 Ion Ratio Lower Upper  
 266 100  
 264 64.6 51.3 76.9  
 268 53.5 49.4 74.2





#69

Phenanthrene

Concen: 31.838 ng/ul

RT: 17.01 min Scan# 2384

Delta R.T. -0.01 min

Lab File: BM022330.D

Acq: 26 Aug 2019 14:43

Instrument :

BNA\_M

ClientSampleId :

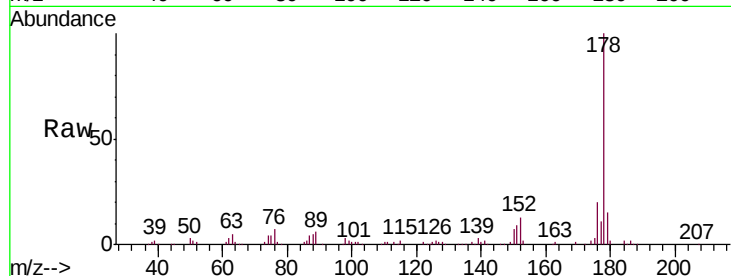
Tot Ion:178 Resp: 172365

Ion Ratio Lower Upper

178 100

179 15.2 12.4 18.6

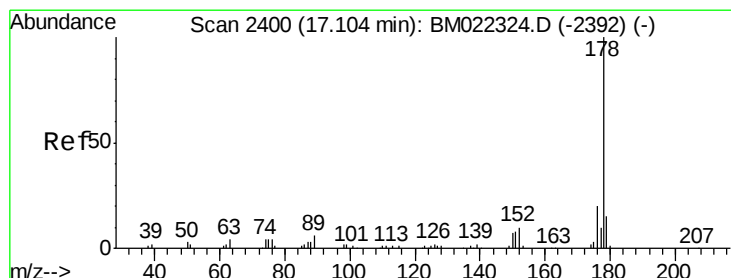
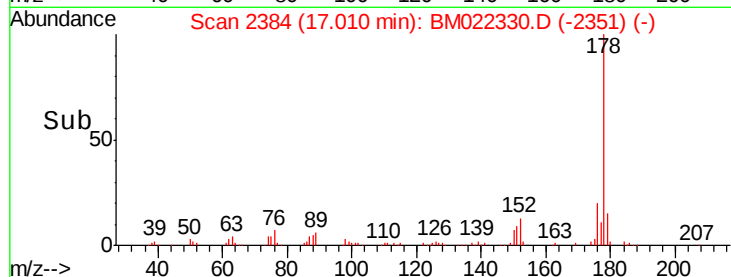
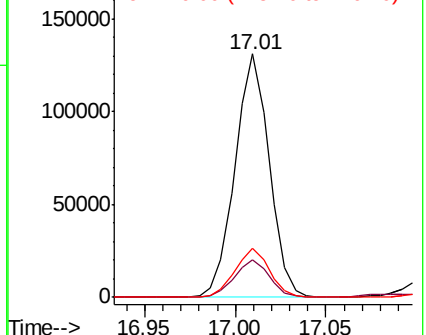
176 19.9 15.4 23.0



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: 2.499 ng/ul

RT: 17.10 min Scan# 2400

Delta R.T. -0.01 min

Lab File: BM022330.D

Acq: 26 Aug 2019 14:43

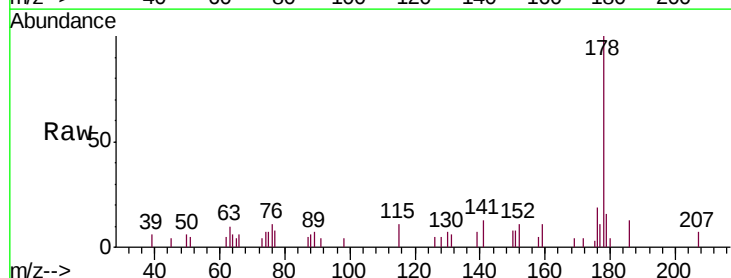
Tgt Ion:178 Resp: 14079

Ion Ratio Lower Upper

178 100

179 15.6 12.3 18.5

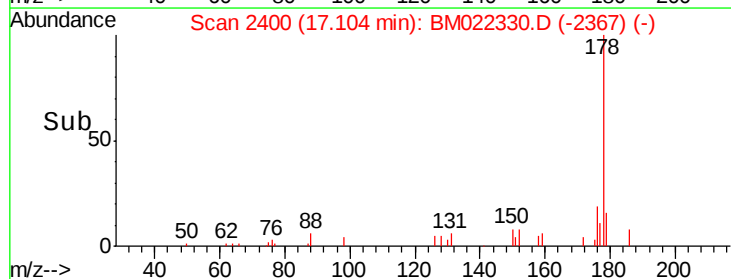
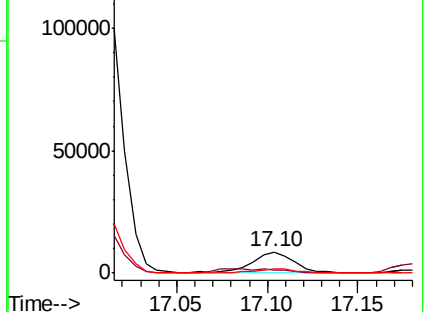
176 19.1 15.5 23.3

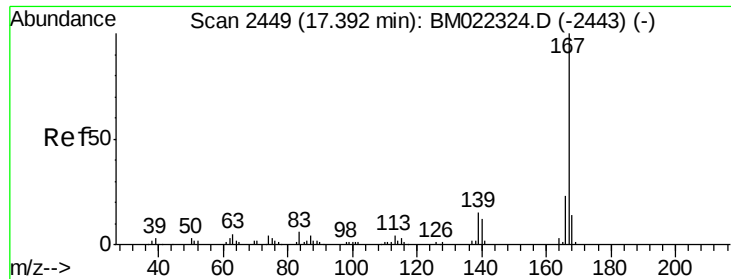


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

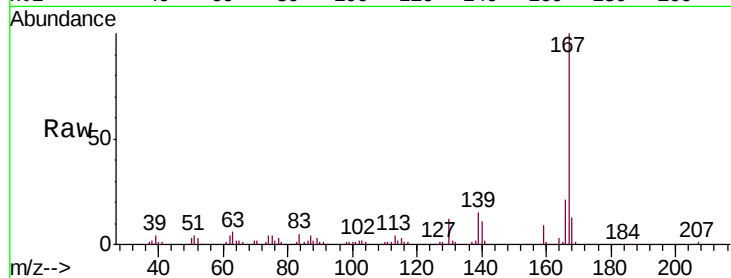




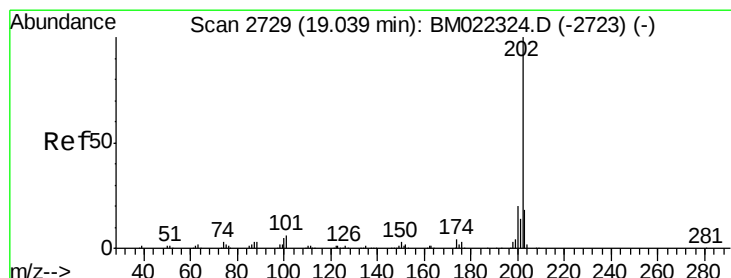
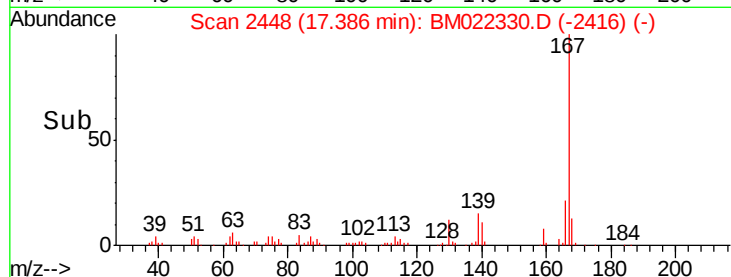
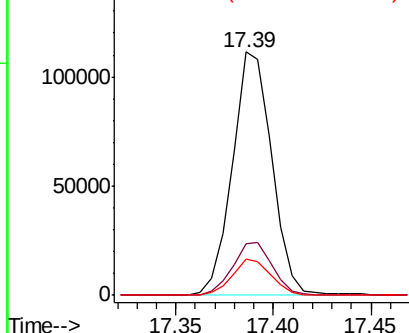
#74  
 Carbazole  
 Concen: 30.633 ng/ul  
 RT: 17.39 min Scan# 2448  
 Delta R.T. -0.01 min  
 Lab File: BM022330.D  
 Acq: 26 Aug 2019 14:43

Instrument :  
 BNA\_M  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.0  | 17.8  | 26.8  |
| 139     | 15.0  | 11.8  | 17.8  |

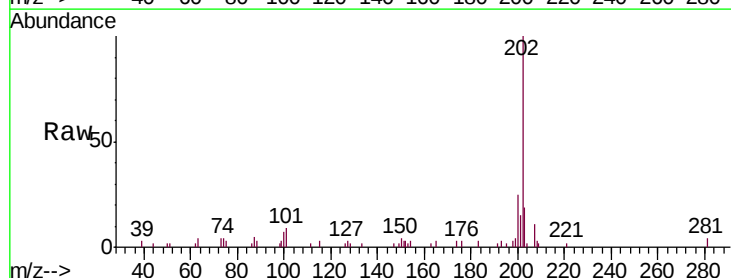


Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E

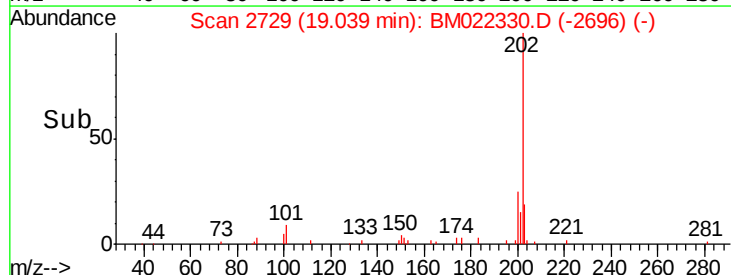
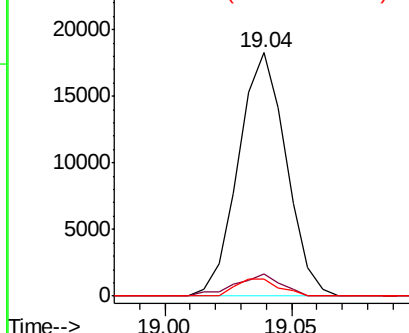


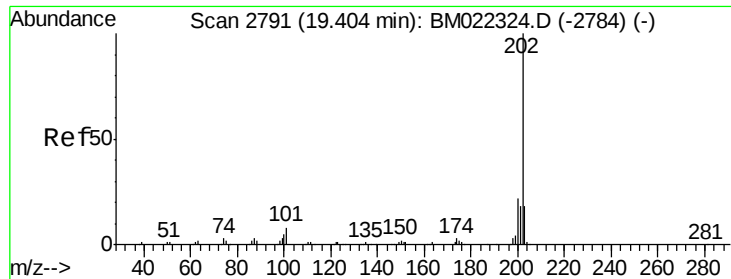
#76  
 Fluoranthene  
 Concen: 2.938 ng/ul  
 RT: 19.04 min Scan# 2729  
 Delta R.T. -0.01 min  
 Lab File: BM022330.D  
 Acq: 26 Aug 2019 14:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 5.3   | 7.9#  |
| 100     | 7.0   | 4.6   | 6.8#  |



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

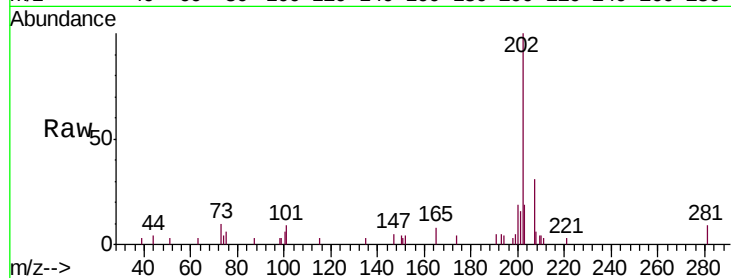




#79  
 Pvrene  
 Concen: 2.668 ng/ul  
 RT: 19.40 min Scan# 2791  
 Delta R.T. -0.01 min  
 Lab File: BM022330.D  
 Acq: 26 Aug 2019 14:43

Instrument :  
 BNA\_M  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.0   | 7.0   | 10.4  |
| 100     | 6.4   | 5.8   | 8.8   |



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

