

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM093019\  
 Data File : BM022820.D  
 Acq On : 30 Sep 2019 12:02  
 Operator : JU  
 Sample : K4958-12MS  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 ESNZ3MS

Manual Integrations  
 APPROVED

mohammad  
 10/2/2019 8:20:50 AM

Quant Time: Sep 30 23:55:39 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM092719MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Sep 27 18:03:27 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 269385   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.60 | 136  | 1188026  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.44 | 164  | 763495   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.18 | 188  | 1596318  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.36 | 240  | 1469666  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.63 | 264  | 1306153  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.27  | 96  | 16288   | 2.61  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.97  | 99  | 323395  | 13.59 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.14  | 67  | 199359  | 15.30 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.34  | 132 | 284976  | 14.87 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.51  | 113 | 239803  | 12.31 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 140836  | 15.36 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.68  | 143 | 148976  | 14.88 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 288001  | 14.45 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.73 | 131 | 378475  | 15.63 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.85 | 166 | 956931  | 16.15 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.13 | 160 | 1100556 | 16.09 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 14.63 | 143 | 140337  | 11.99 | ng/ul | 0.00  |
| 58) Fluorene-d10               | 15.43 | 176 | 838222  | 16.60 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.55 | 200 | 95497   | 9.19  | ng/ul | 0.00  |
| 71) Anthracene-d10             | 17.28 | 188 | 1272766 | 16.33 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.57 | 212 | 1524237 | 19.27 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 23.49 | 264 | 1192095 | 17.64 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |         |        |        | Qvalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 6) Phenol                      | 7.00  | 94  | 378785  | 15.181 | ng/ul  | 99     |
| 10) 2-Chlorophenol             | 7.37  | 128 | 284177  | 13.822 | ng/ul  | 99     |
| 15) N-Nitroso-di-n-propylamine | 8.62  | 70  | 227203  | 14.849 | ng/ul  | 99     |
| 33) 4-Chloro-3-methylphenol    | 11.87 | 107 | 295236  | 14.213 | ng/ul  | 99     |
| 45) Dimethylphthalate          | 13.90 | 163 | 243403  | 3.999  | ng/ul  | 100    |
| 50) Acenaphthene               | 14.51 | 153 | 804847  | 15.643 | ng/ul  | 100    |
| 53) 4-Nitrophenol              | 14.64 | 109 | 112981  | 13.204 | ng/ul  | 99     |
| 55) 2,4-Dinitrotoluene         | 14.80 | 165 | 269750  | 15.064 | ng/ul  | 97     |
| 69) Pentachlorophenol          | 16.83 | 266 | 168246  | 12.078 | ng/ul  | 98     |
| 70) Phenanthrene               | 17.22 | 178 | 144088  | 1.512  | ng/ul  | 99     |
| 77) Fluoranthene               | 19.24 | 202 | 508083  | 4.742  | ng/ul  | 100    |
| 80) Pyrene                     | 19.60 | 202 | 2380427 | 22.849 | ng/ul  | 98     |
| 83) Benzo(a)anthracene         | 21.34 | 228 | 176416  | 1.672  | ng/ul  | 98     |
| 85) Chrysene                   | 21.40 | 228 | 234096  | 2.406  | ng/ul  | 98     |
| 88) Benzo(b)fluoranthene       | 22.94 | 252 | 308339  | 3.557  | ng/ul  | 97     |
| 89) Benzo(k)fluoranthene       | 22.99 | 252 | 109850m | 1.325  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 23.53 | 252 | 179891  | 2.212  | ng/ul# | 96     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.93 | 276 | 145963  | 1.690  | ng/ul  | 97     |
| 94) Benzo(g,h,i)perylene       | 26.63 | 276 | 151888  | 2.180  | ng/ul  | 99     |

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

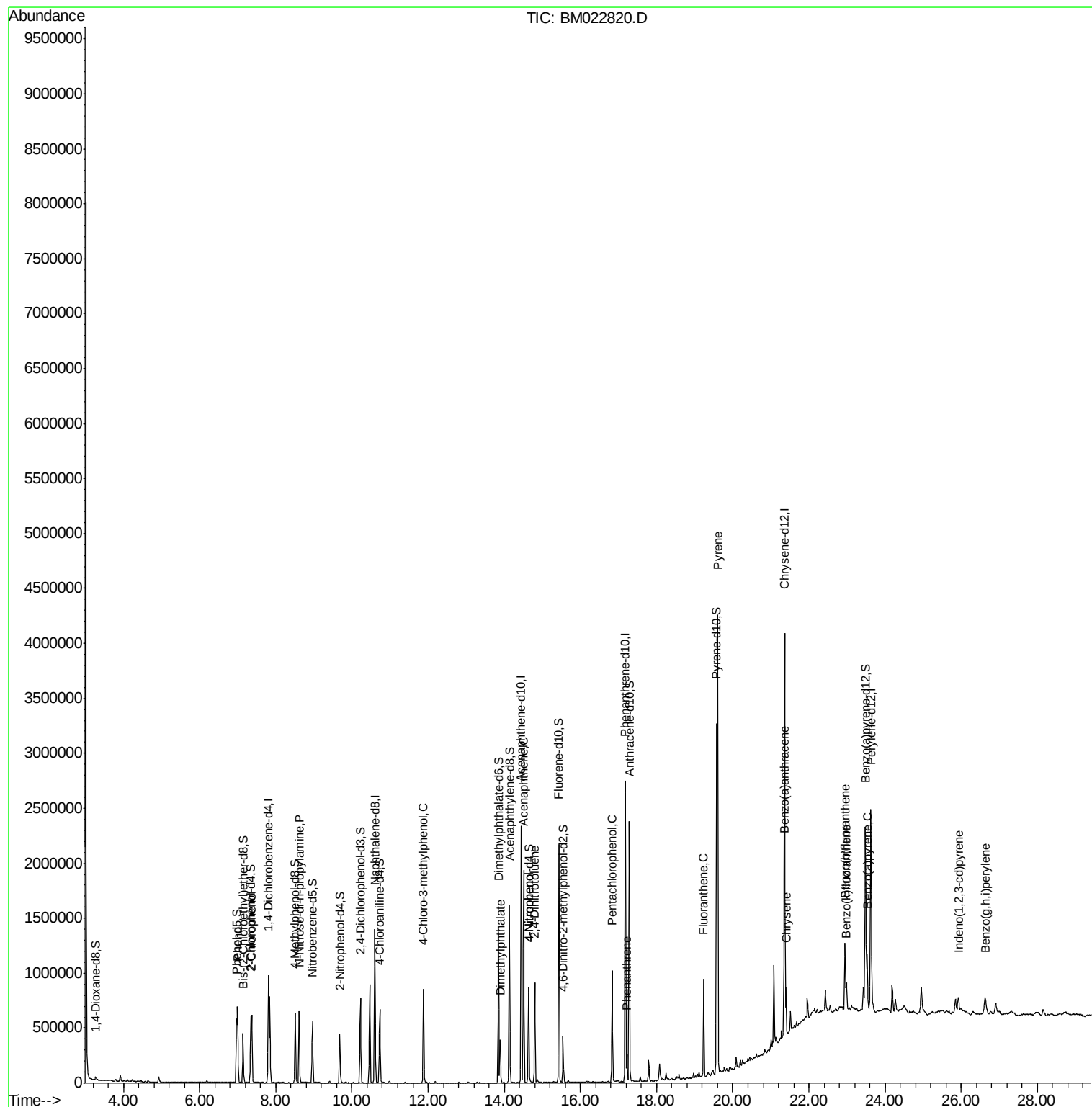
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM093019\  
Data File : BM022820.D  
Acq On : 30 Sep 2019 12:02  
Operator : JU  
Sample : K4958-12MS  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

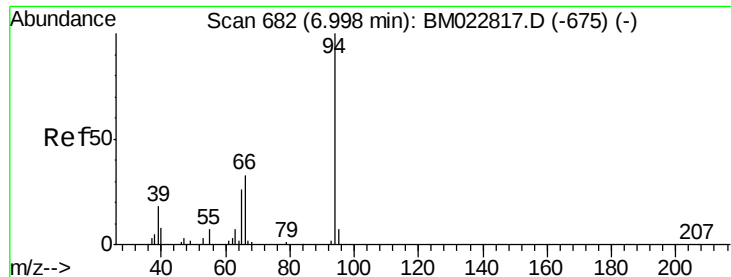
Instrument :  
BNA\_M  
ClientSampleId :  
ESNZ3MS

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Quant Time: Sep 30 23:55:39 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM092719MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Sep 27 18:03:27 2019  
Response via : Initial Calibration





#6

Phenol

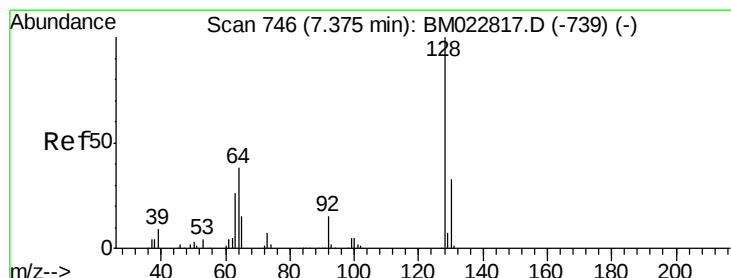
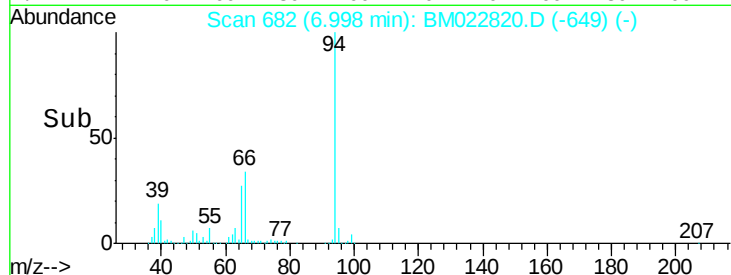
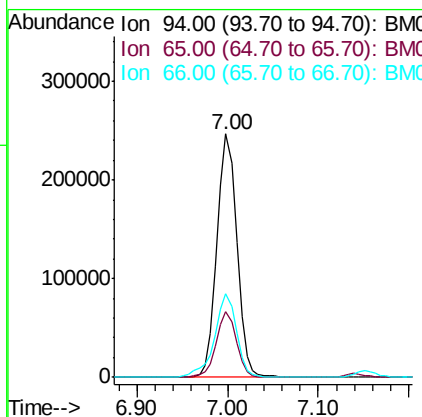
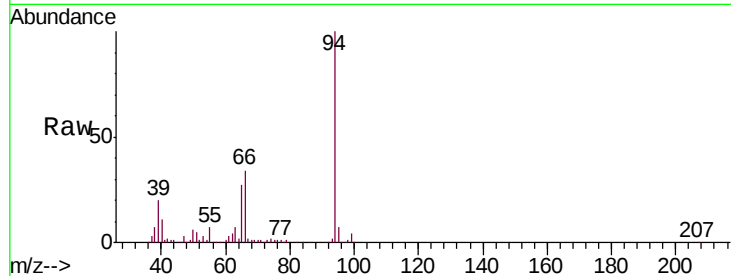
Concen: 15.181 ng/ul  
 RT: 7.00 min Scan# 682  
 Delta R.T. -0.01 min  
 Lab File: BM022820.D  
 Acq: 30 Sep 2019 12:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNZ3MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 94      | 100   | 378785 |       |       |
| 65      | 26.8  | 20.9   | 31.3  |       |
| 66      | 34.5  | 27.2   | 40.8  |       |

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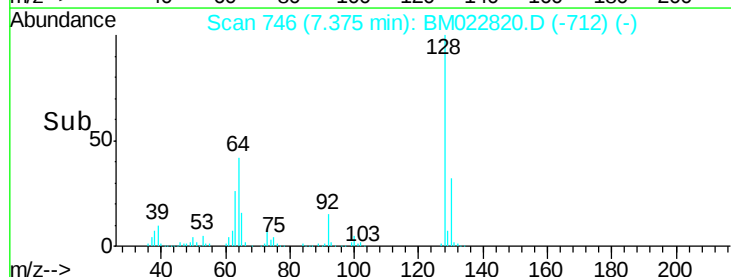
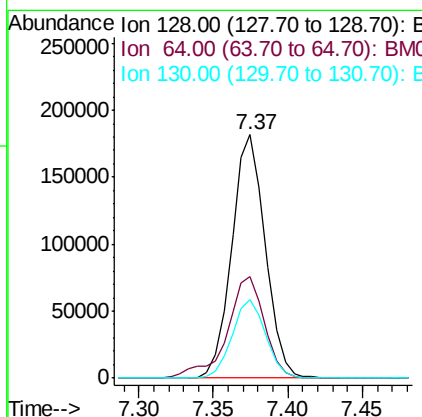
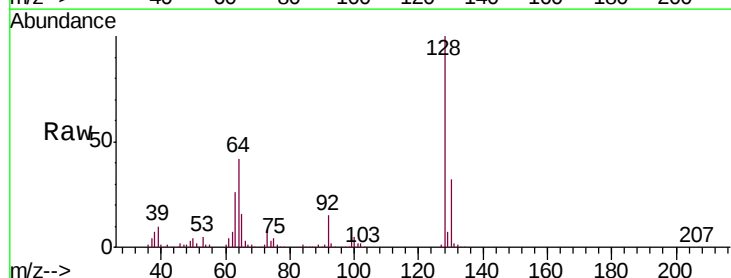


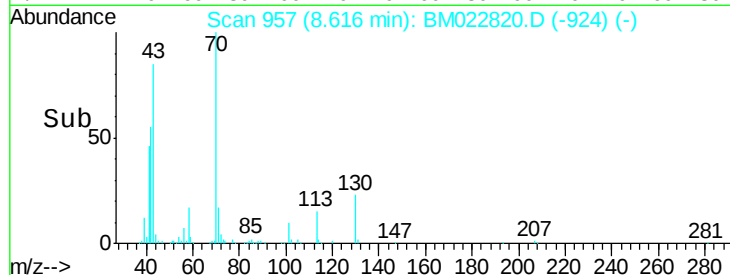
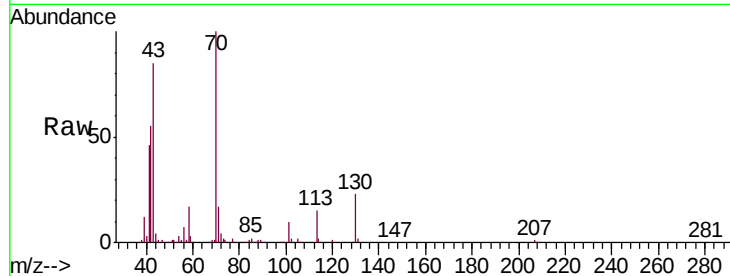
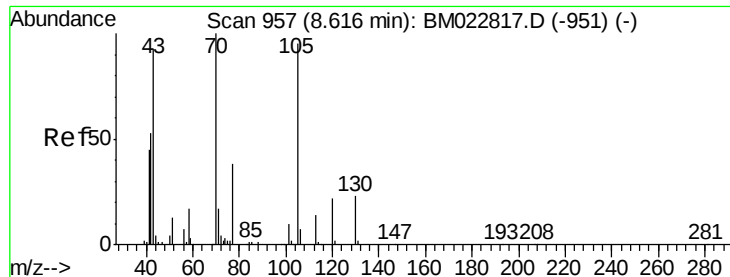
#10

2-Chlorophenol

Concen: 13.822 ng/ul  
 RT: 7.37 min Scan# 746  
 Delta R.T. -0.00 min  
 Lab File: BM022820.D  
 Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 284177 |       |       |
| 64      | 41.7  | 34.1   | 51.1  |       |
| 130     | 32.4  | 26.0   | 39.0  |       |





#15

N-Nitroso-di-n-propylamine

Concen: 14.849 ng/ul

RT: 8.62 min Scan# 957

Delta R.T. -0.01 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 54.8  | 44.6  | 66.8  |
| 101     | 10.3  | 8.2   | 12.2  |
| 130     | 23.4  | 18.7  | 28.1  |

Instrument :

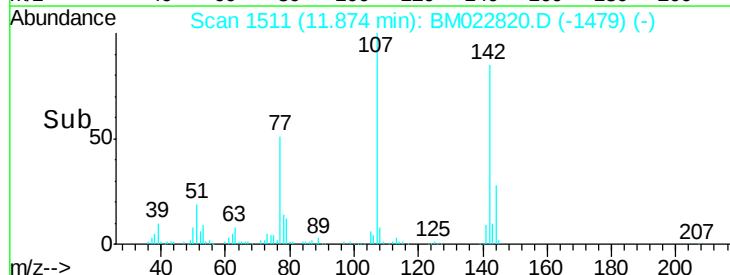
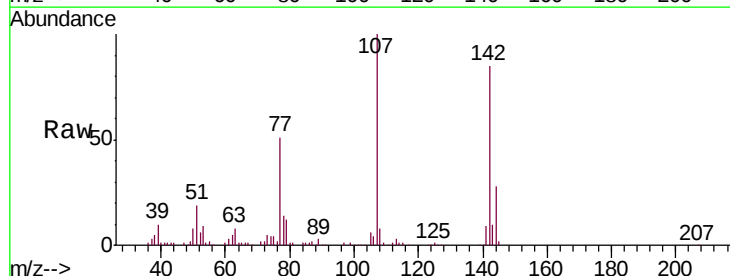
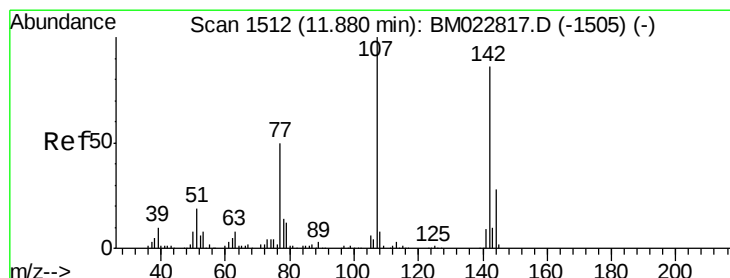
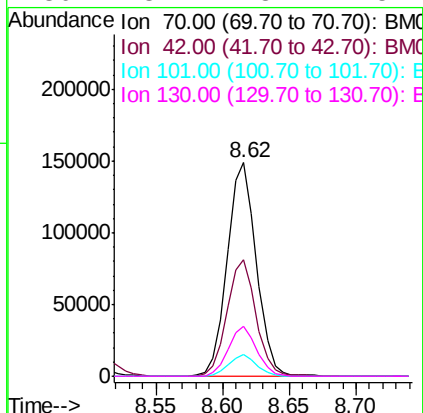
BNA\_M

ClientSampleId :

ESNZ3MS

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#33

4-Chloro-3-methylphenol

Concen: 14.213 ng/ul

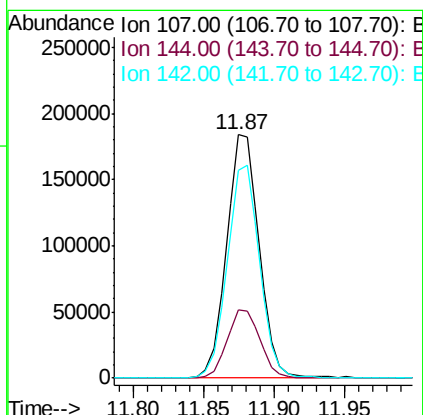
RT: 11.87 min Scan# 1511

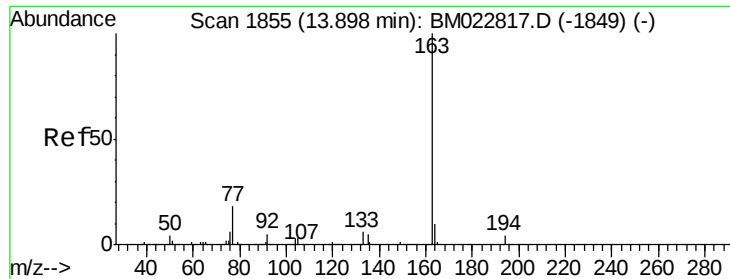
Delta R.T. -0.01 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 27.9  | 22.5  | 33.7  |
| 142     | 85.3  | 68.9  | 103.3 |





#45

Dimethylphthalate

Concen: 3.999 ng/ul

RT: 13.90 min Scan# 1855

Delta R.T. -0.01 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

Instrument :

BNA\_M

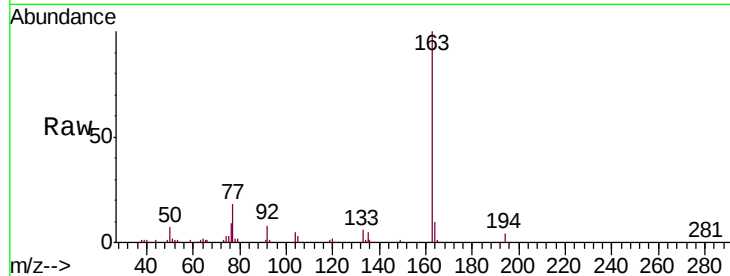
ClientSampleId :

ESNZ3MS

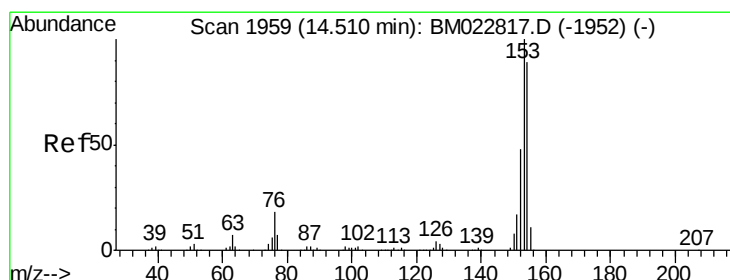
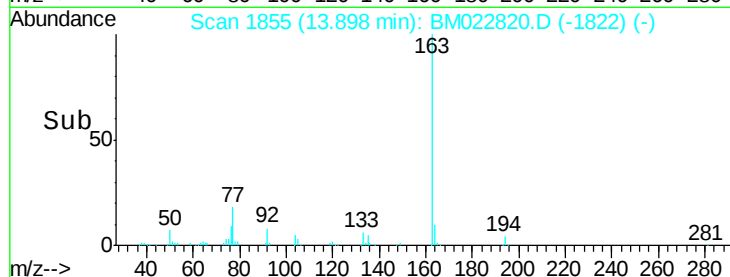
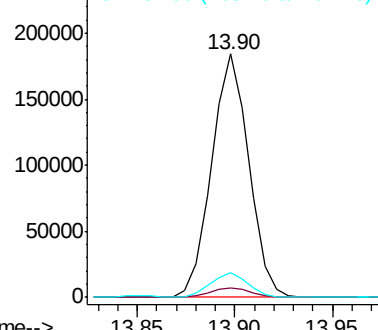
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 163  | Resp: | 243403 |
| Ion Ratio |      | Lower | Upper  |
| 163       | 100  |       |        |
| 194       | 4.1  | 3.4   | 5.0    |
| 164       | 10.1 | 8.1   | 12.1   |

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Abundance Ion 163.00 (162.70 to 163.70): E  
250000  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#50

Acenaphthene

Concen: 15.643 ng/ul

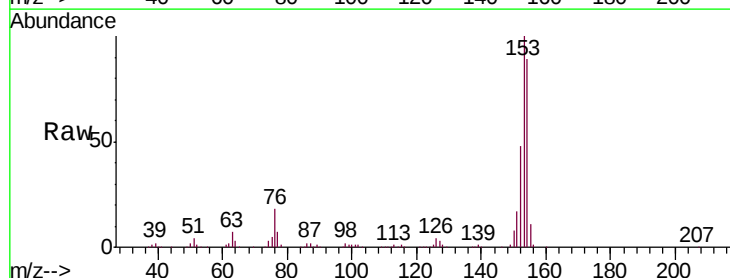
RT: 14.51 min Scan# 1959

Delta R.T. -0.01 min

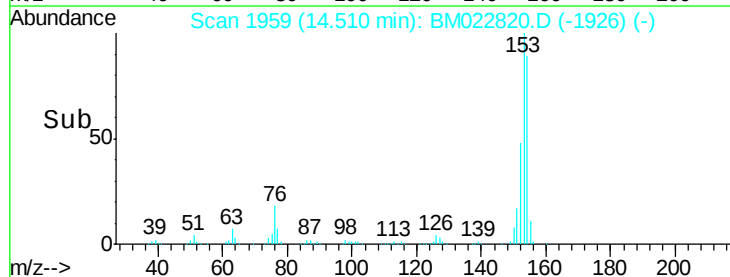
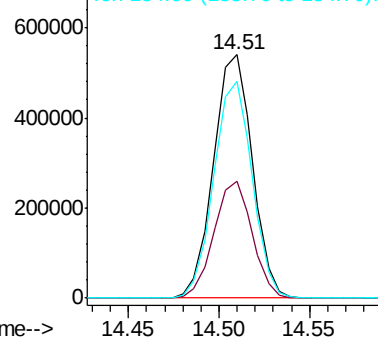
Lab File: BM022820.D

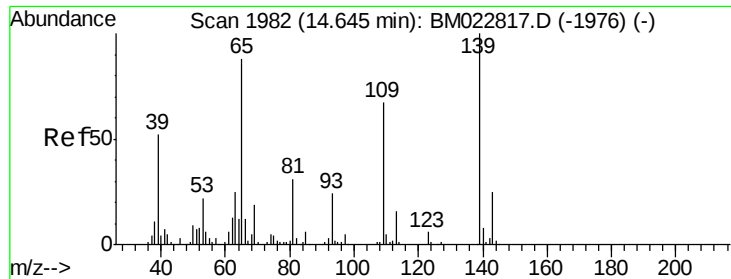
Acq: 30 Sep 2019 12:02

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 153  | Resp: | 804847 |
| Ion Ratio |      | Lower | Upper  |
| 153       | 100  |       |        |
| 152       | 47.9 | 38.1  | 57.1   |
| 154       | 89.0 | 71.1  | 106.7  |



Abundance Ion 153.00 (152.70 to 153.70): E  
600000  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





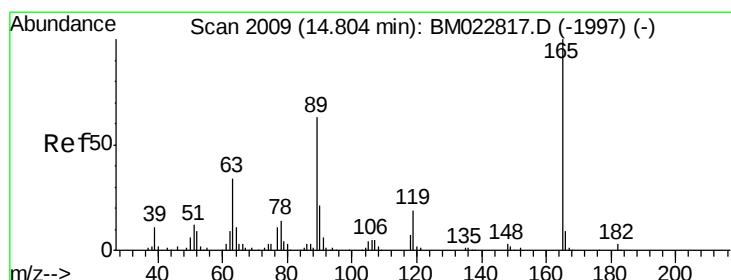
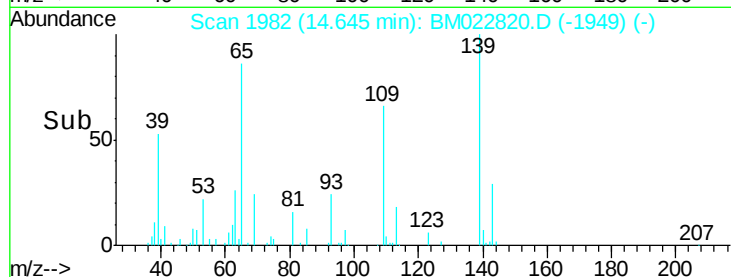
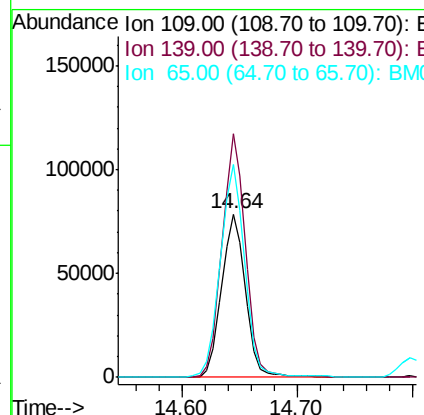
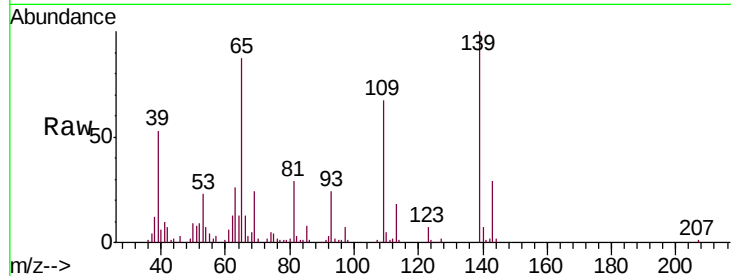
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4-Nitrophenol  
Concen: 13.204 ng/ul  
RT: 14.64 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: BM022820.D  
Acq: 30 Sep 2019 12:02

Instrument :  
BNA\_M  
ClientSampleId :  
ESNZ3MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 109     | 100   | 112981 |       |       |
| 139     | 149.0 | 119.5  | 179.3 |       |
| 65      | 130.3 | 105.0  | 157.4 |       |

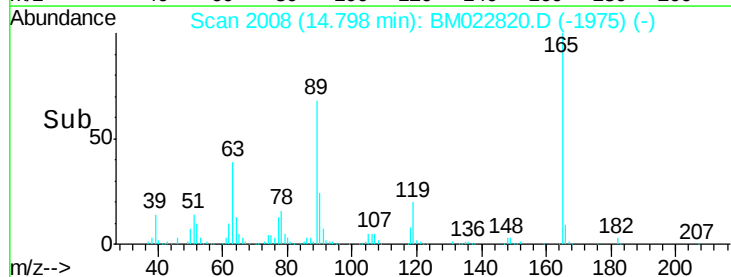
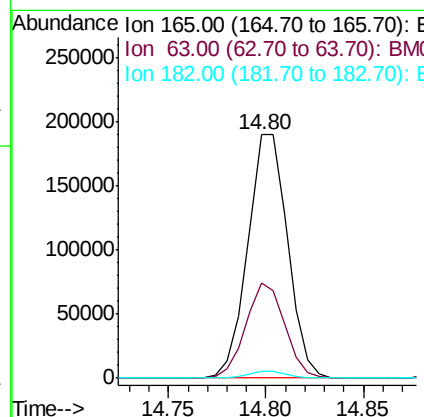
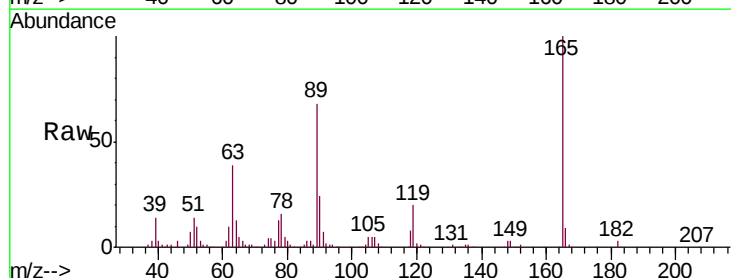
Manual Integrations  
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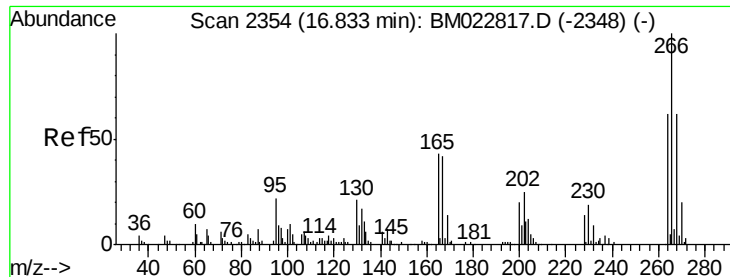
mohammad  
10/2/2019 8:20:50 AM



#55  
2,4-Dinitrotoluene  
Concen: 15.064 ng/ul  
RT: 14.80 min Scan# 2008  
Delta R.T. -0.01 min  
Lab File: BM022820.D  
Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 269750 |       |       |
| 63      | 39.2  | 29.8   | 44.6  |       |
| 182     | 2.7   | 2.2    | 3.4   |       |





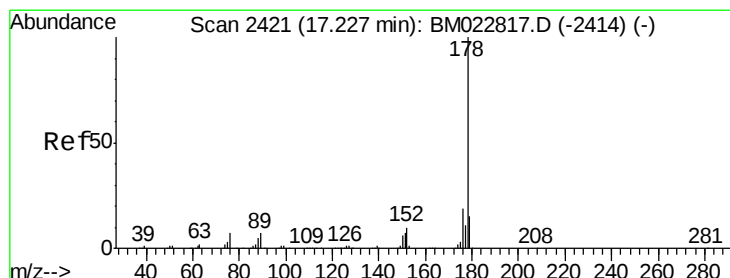
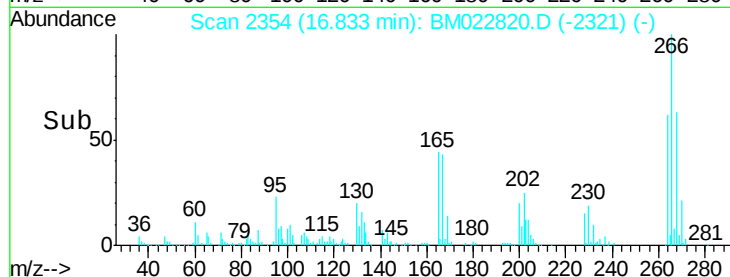
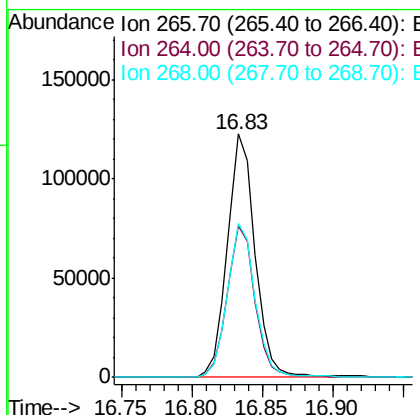
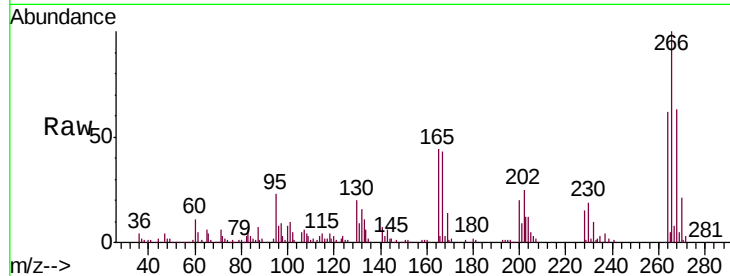
#69  
 Pentachlorophenol  
 Concen: 12.078 ng/ul  
 RT: 16.83 min Scan# 2354  
 Delta R.T. -0.01 min  
 Lab File: BM022820.D  
 Acq: 30 Sep 2019 12:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNZ3MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 266     | 100   | 168246 |       |       |
| 264     | 62.2  | 50.8   | 76.2  |       |
| 268     | 63.0  | 51.4   | 77.0  |       |

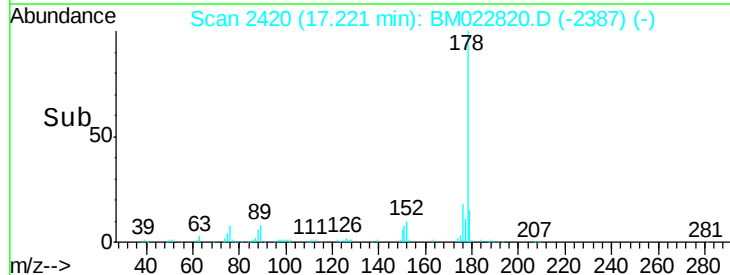
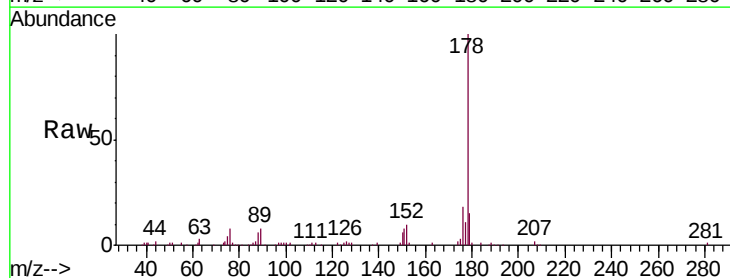
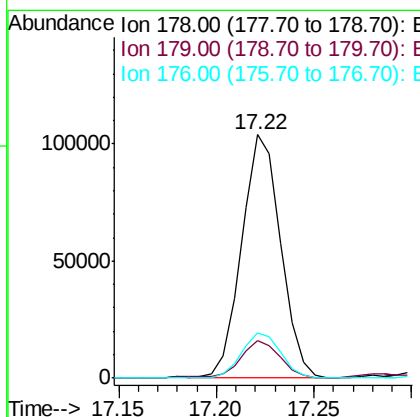
Manual Integrations  
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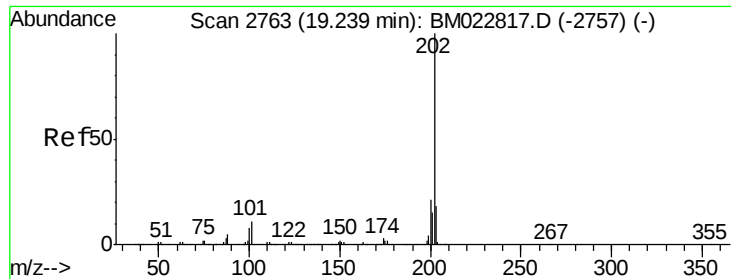
mohammad  
 10/2/2019 8:20:50 AM



#70  
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 RT: 17.22 min Scan# 2420  
 Delta R.T. -0.01 min  
 Lab File: BM022820.D  
 Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 144088 |       |       |
| 179     | 15.5  | 12.4   | 18.6  |       |
| 176     | 18.5  | 15.3   | 22.9  |       |





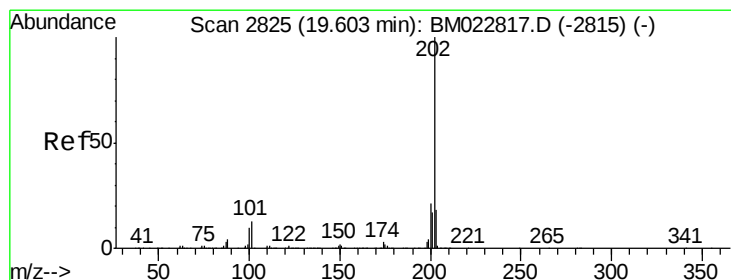
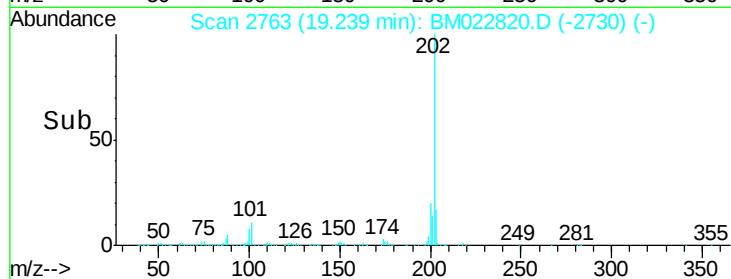
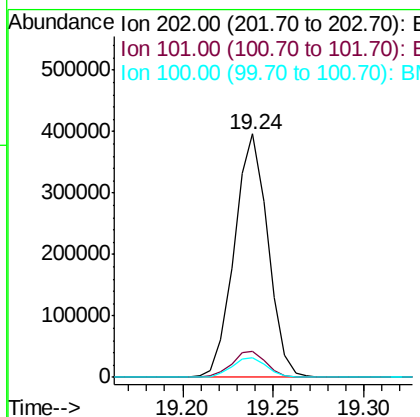
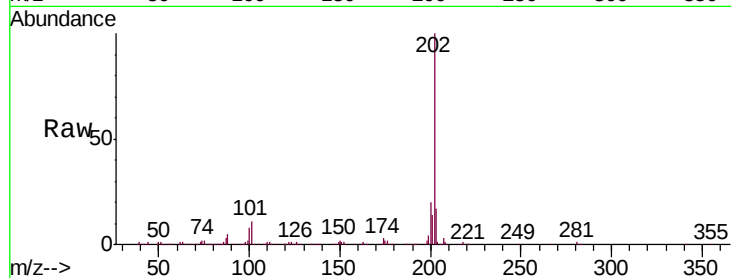
#77  
**Fluoranthene**  
 Concen: 4.742 ng/ul  
 RT: 19.24 min Scan# 2763  
 Delta R.T. -0.01 min  
 Lab File: BM022820.D  
 Acq: 30 Sep 2019 12:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNZ3MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.6  | 8.6        | 12.8       |
| 100     | 8.1   | 6.4        | 9.6        |

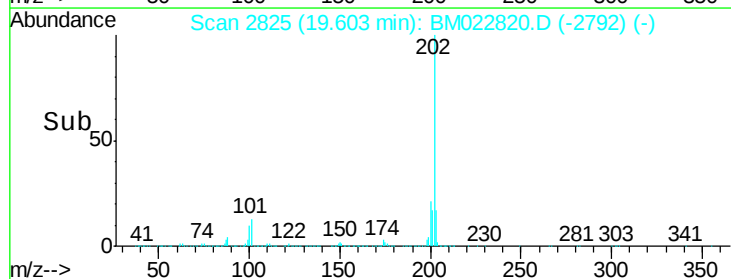
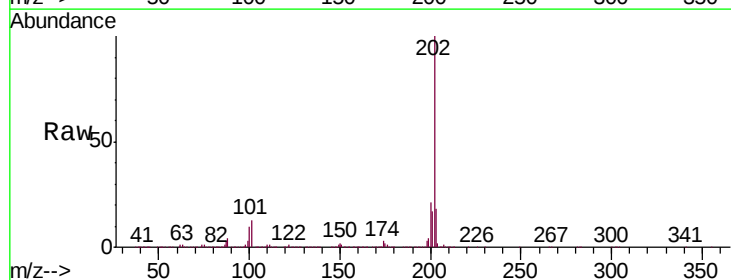
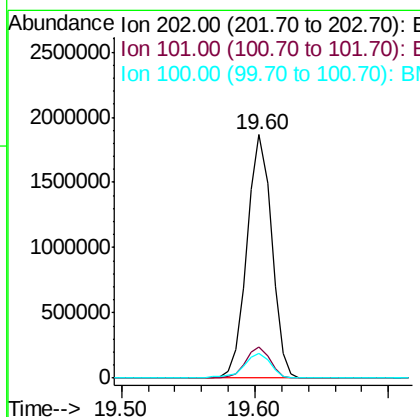
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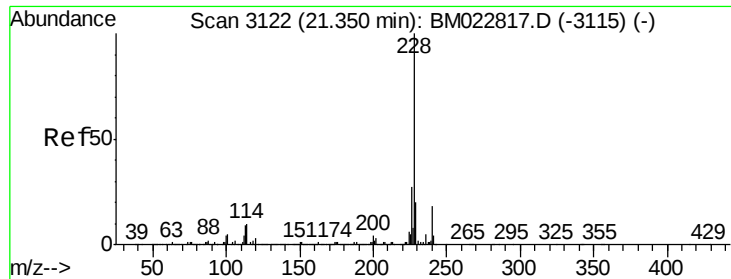
mohammad  
 10/2/2019 8:20:50 AM



#80  
**Pyrene**  
 Concen: 22.849 ng/ul  
 RT: 19.60 min Scan# 2825  
 Delta R.T. -0.01 min  
 Lab File: BM022820.D  
 Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 13.0  | 9.7        | 14.5       |
| 100     | 10.3  | 7.8        | 11.8       |





#83

Benzo(a)anthracene

Concen: 1.672 ng/ul

RT: 21.34 min Scan# 3121

Delta R.T. -0.01 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

Instrument :

BNA\_M

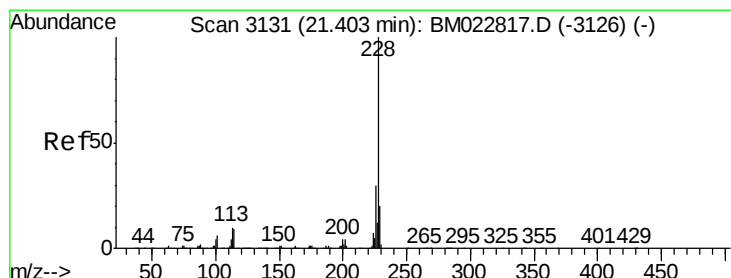
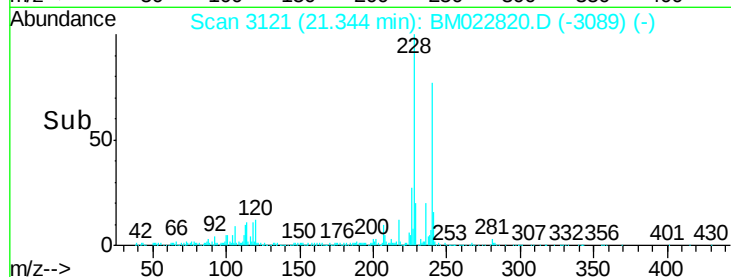
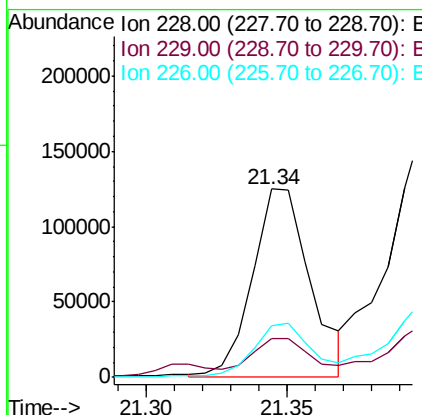
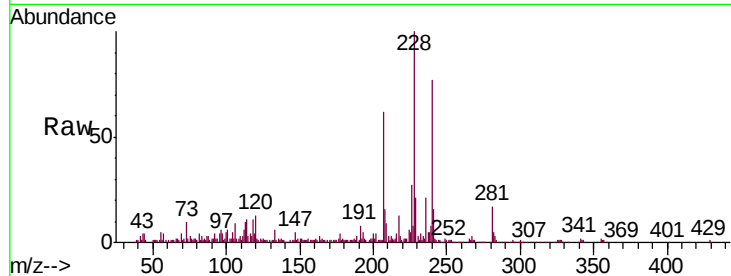
ClientSampleId :

ESNZ3MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 176416 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.6  | 15.8  | 23.8   |
| 226       | 27.1  | 22.4  | 33.6   |

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#85

Chrysene

Concen: 2.406 ng/ul

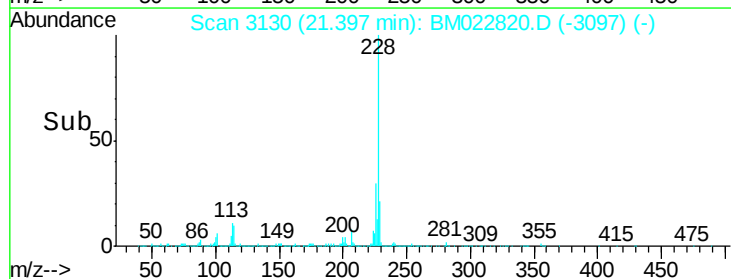
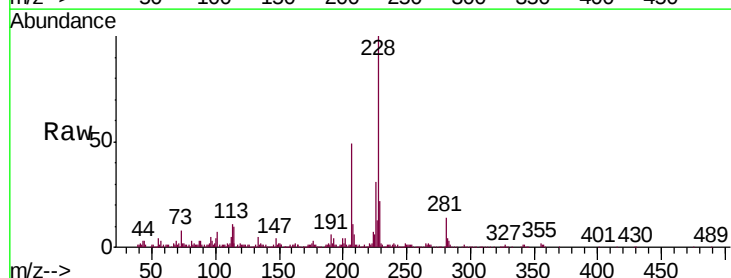
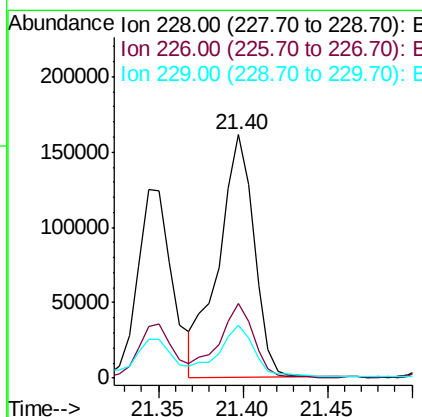
RT: 21.40 min Scan# 3130

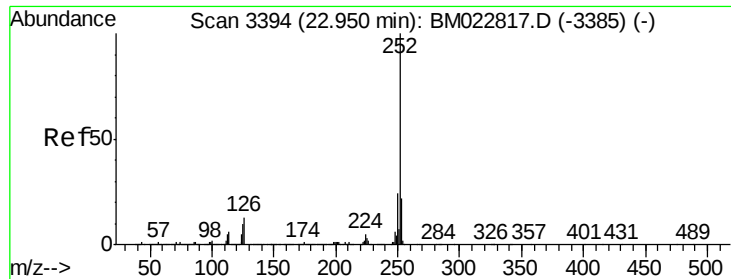
Delta R.T. -0.01 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 234096 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.6  | 24.2  | 36.4   |
| 229       | 21.5  | 15.9  | 23.9   |





#88

Benzo(b)fluoranthene

Concen: 3.557 ng/ul

RT: 22.94 min Scan# 3393

Delta R.T. -0.01 min

Lab File: BM022820.D

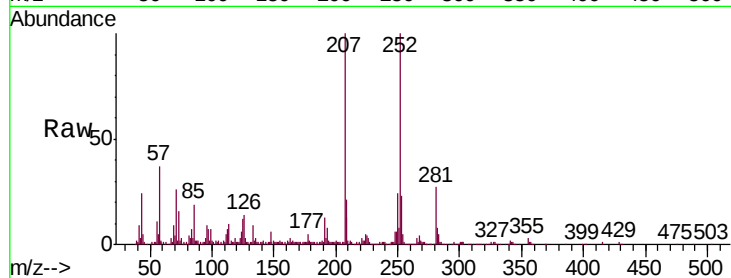
Acq: 30 Sep 2019 12:02

Instrument :

BNA\_M

ClientSampleId :

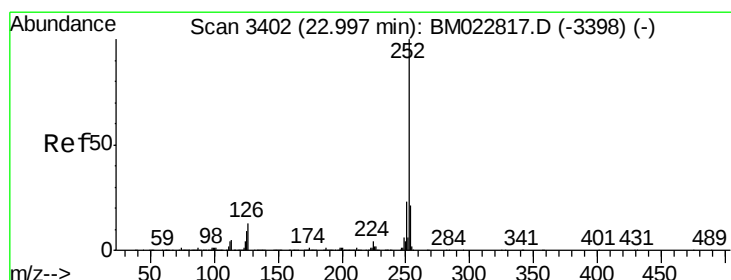
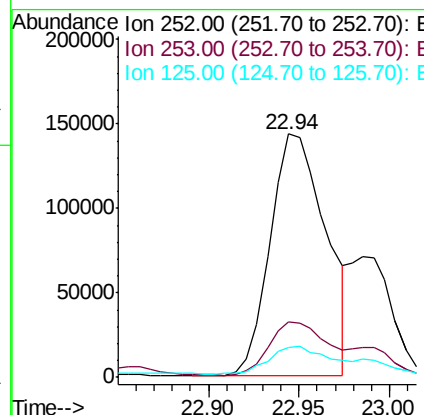
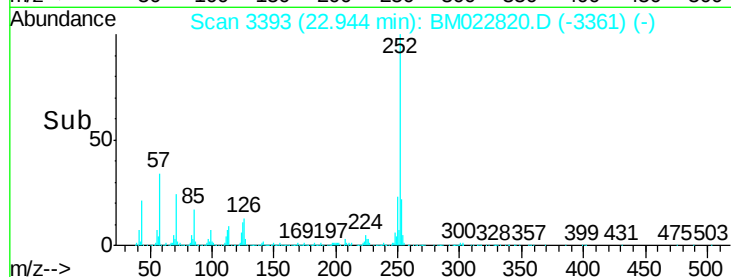
ESNZ3MS



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 308339 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.7  | 26.5   |
| 125       | 12.2  | 8.2   | 12.2   |

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#89

Benzo(k)fluoranthene

Concen: 1.325 ng/ul m

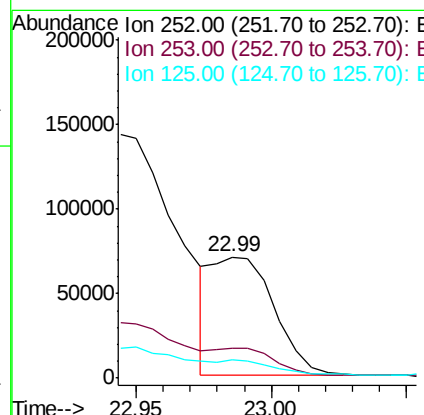
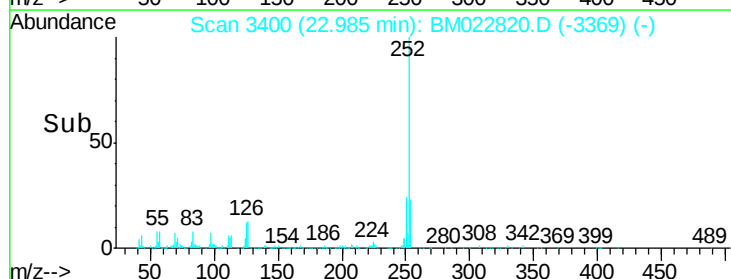
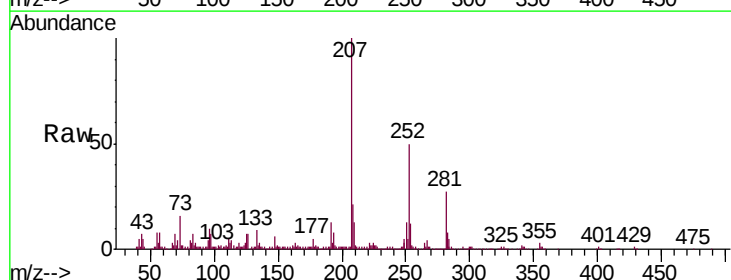
RT: 22.99 min Scan# 3400

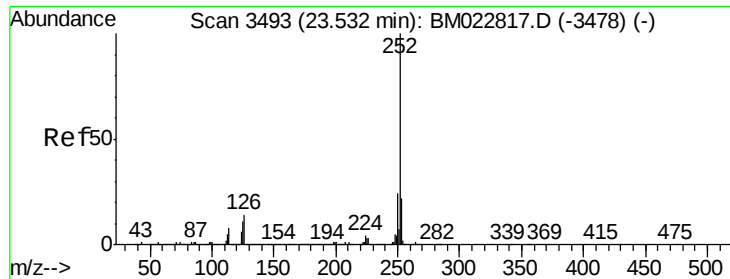
Delta R.T. -0.02 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 109850 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.7  | 17.5  | 26.3   |
| 125       | 14.7  | 7.9   | 11.9#  |





#91

Benzo(a)pyrene

Concen: 2.212 ng/ul

RT: 23.53 min Scan# 3493

Delta R.T. -0.01 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

Instrument :

BNA\_M

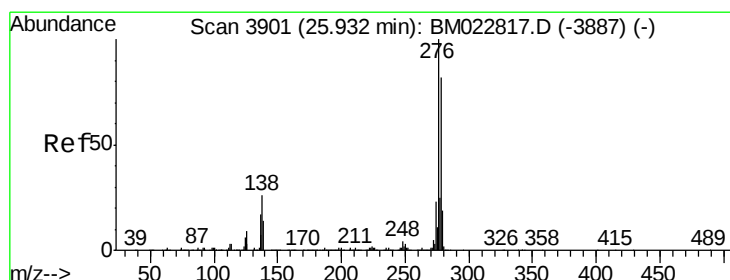
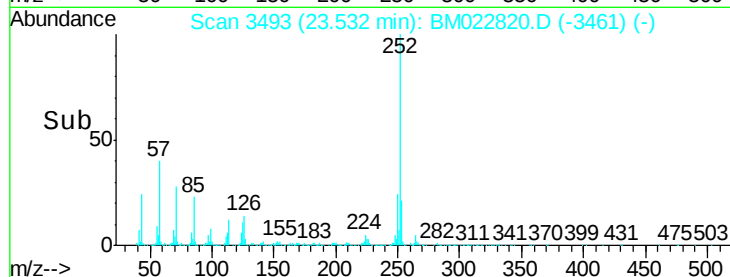
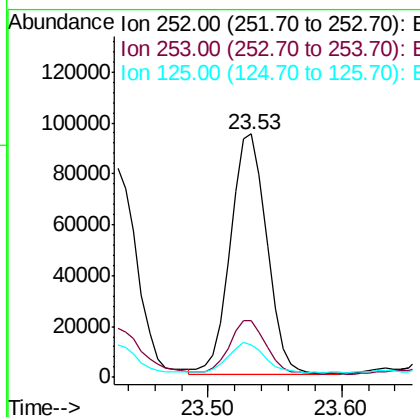
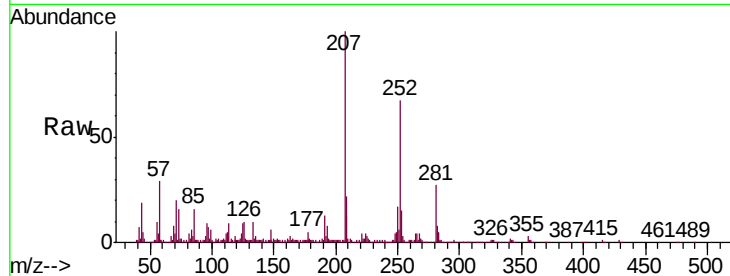
ClientSampleId :

ESNZ3MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 179891 |       |       |
| 253     | 23.1  | 17.6   | 26.4  |       |
| 125     | 13.1  | 8.7    | 13.1# |       |

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#92

Indeno(1,2,3-cd)pyrene

Concen: 1.690 ng/ul

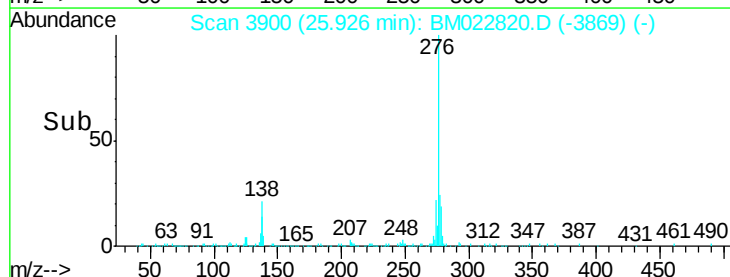
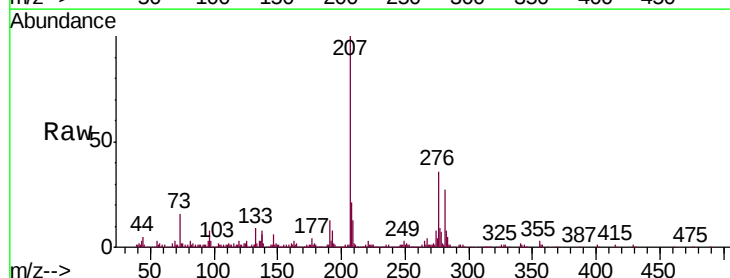
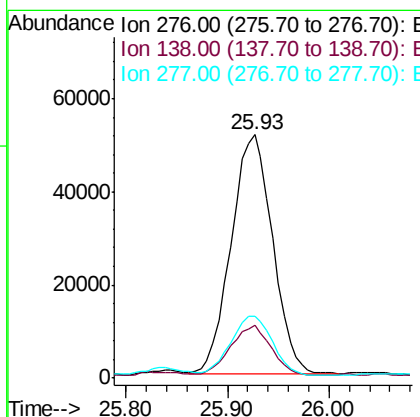
RT: 25.93 min Scan# 3900

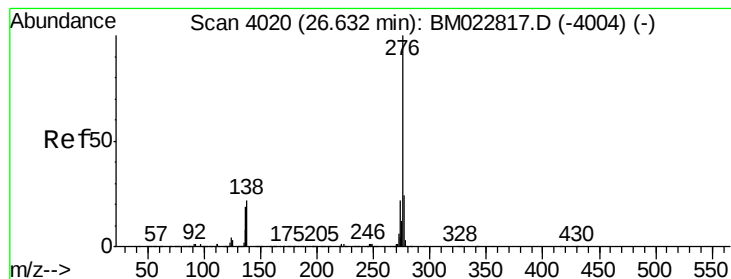
Delta R.T. -0.02 min

Lab File: BM022820.D

Acq: 30 Sep 2019 12:02

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 145963 |       |       |
| 138     | 21.7  | 19.8   | 29.8  |       |
| 277     | 25.3  | 20.3   | 30.5  |       |





#94

Benzo(g,h,i)perylene

Concen: 2.180 ng/ul

RT: 26.63 min Scan# 4019

Delta R.T. -0.02 min

Lab File: BM022820.D

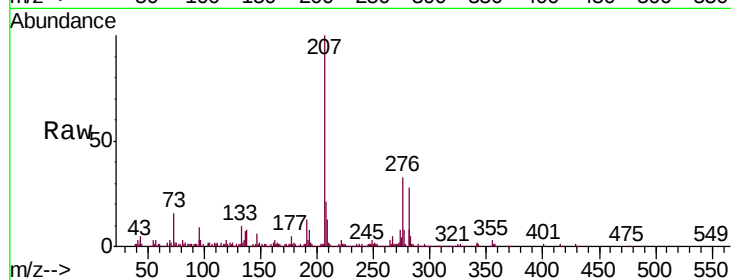
Acq: 30 Sep 2019 12:02

Instrument :

BNA\_M

ClientSampleId :

ESNZ3MS



|     |       |      |       |        |
|-----|-------|------|-------|--------|
| Tgt | Ion   | 276  | Resp: | 151888 |
|     | Ratio | 100  | Lower | Upper  |
|     | 276   | 100  |       |        |
|     | 138   | 22.8 | 17.6  | 26.4   |
|     | 277   | 23.2 | 19.1  | 28.7   |

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