

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012919\  
 Data File : BM018685.D  
 Acq On : 29 Jan 2019 19:49  
 Operator : JU/SJ  
 Sample : K1008-04MS  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HD-01-012819MS

Manual Integrations  
 APPROVED

mohammad  
 1/30/2019 11:10:39 AM

Quant Time: Jan 30 00:26:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 18 22:01:30 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 243402   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.52 | 136  | 911966   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 14.37 | 164  | 453038   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 17.13 | 188  | 925379   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.32 | 240  | 851915   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 23.59 | 264  | 868623   | 20.00 | ng    | -0.02    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.32  | 112 | 1727456 | 131.05 | ng | 0.00  |
| 7) Phenol-d6             | 6.90  | 99  | 2001122 | 119.52 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 8.89  | 82  | 1569976 | 99.80  | ng | -0.01 |
| 42) 2,4,6-Tribromophenol | 15.87 | 330 | 766316  | 132.85 | ng | -0.01 |
| 45) 2-Fluorobiphenyl     | 12.99 | 172 | 3241729 | 93.37  | ng | -0.01 |
| 79) Terphenyl-d14        | 19.76 | 244 | 3867792 | 95.71  | ng | -0.01 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 2) 1,4-Dioxane                 | 3.28  | 88  | 217725  | 40.525 | ng | # 38   |
| 3) Pyridine                    | 3.69  | 79  | 516538  | 38.563 | ng | # 77   |
| 4) n-Nitrosodimethylamine      | 3.59  | 42  | 206363  | 37.257 | ng | # 57   |
| 6) Aniline                     | 7.07  | 93  | 125284  | 6.708  | ng | 99     |
| 8) 2-Chlorophenol              | 7.29  | 128 | 669561  | 43.491 | ng | 99     |
| 9) Benzaldehyde                | 6.89  | 77  | 497583  | 60.412 | ng | 95     |
| 10) Phenol                     | 6.93  | 94  | 685167  | 40.273 | ng | 98     |
| 11) bis(2-Chloroethyl)ether    | 7.16  | 93  | 616475  | 46.115 | ng | 94     |
| 12) 1,3-Dichlorobenzene        | 7.61  | 146 | 768521  | 41.917 | ng | 97     |
| 13) 1,4-Dichlorobenzene        | 7.76  | 146 | 785025  | 42.245 | ng | 99     |
| 14) 1,2-Dichlorobenzene        | 8.07  | 146 | 744020  | 42.225 | ng | 99     |
| 15) Benzyl Alcohol             | 7.97  | 79  | 596781  | 49.351 | ng | 96     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.26  | 45  | 548059  | 32.081 | ng | 76     |
| 17) 2-Methylphenol             | 8.17  | 107 | 518446  | 44.893 | ng | 96     |
| 18) Hexachloroethane           | 8.79  | 117 | 289636  | 43.714 | ng | 97     |
| 19) n-Nitroso-di-n-propylamine | 8.53  | 70  | 514943  | 47.262 | ng | # 77   |
| 20) 3+4-Methylphenols          | 8.50  | 107 | 677987  | 42.527 | ng | 95     |
| 22) Acetophenone               | 8.56  | 105 | 985018  | 43.663 | ng | # 90   |
| 24) Nitrobenzene               | 8.93  | 77  | 780587  | 50.430 | ng | 94     |
| 25) Isophorone                 | 9.46  | 82  | 1284075 | 53.903 | ng | 98     |
| 26) 2-Nitrophenol              | 9.64  | 139 | 344819  | 46.071 | ng | 94     |
| 27) 2,4-Dimethylphenol         | 9.69  | 122 | 556981  | 49.649 | ng | 93     |
| 28) bis(2-Chloroethoxy)methane | 9.93  | 93  | 810086  | 49.226 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.17 | 162 | 598537  | 44.806 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.37 | 180 | 714334  | 43.082 | ng | 99     |
| 31) Naphthalene                | 10.56 | 128 | 2041468 | 46.481 | ng | 99     |
| 32) Benzoic acid               | 9.83  | 122 | 255306m | 35.724 | ng |        |
| 33) 4-Chloroaniline            | 10.69 | 127 | 68992   | 3.989  | ng | 97     |
| 34) Hexachlorobutadiene        | 10.83 | 225 | 441583  | 42.156 | ng | 97     |
| 35) Caprolactam                | 11.50 | 113 | 115116m | 25.346 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 11.81 | 107 | 610073  | 43.531 | ng | 93     |
| 37) 2-Methylnaphthalene        | 12.18 | 142 | 1447825 | 46.657 | ng | 98     |
| 38) 1-Methylnaphthalene        | 12.40 | 142 | 1358442 | 45.243 | ng | 98     |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.55 | 216 | 751362  | 47.427 | ng | 99     |

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Instrument :  
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Manual Integrations  
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 1/30/2019 11:10:39 AM

Quant Time: Jan 30 00:26:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM010919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 18 22:01:30 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Hexachlorocyclopentadiene  | 12.52 | 237  | 981927   | 112.932 | ng    | 100      |
| 43) 2,4,6-Trichlorophenol      | 12.80 | 196  | 465022   | 48.336  | ng    | 99       |
| 44) 2,4,5-Trichlorophenol      | 12.87 | 196  | 478045   | 47.247  | ng    | 99       |
| 46) 1,1'-Biphenyl              | 13.20 | 154  | 1770797  | 44.766  | ng    | 99       |
| 47) 2-Chloronaphthalene        | 13.25 | 162  | 1378625  | 44.943  | ng    | 99       |
| 48) 2-Nitroaniline             | 13.47 | 65   | 355792   | 47.145  | ng    | 97       |
| 49) Acenaphthylene             | 14.10 | 152  | 2120093  | 47.426  | ng    | 99       |
| 50) Dimethylphthalate          | 13.84 | 163  | 1600281  | 43.010  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 13.97 | 165  | 347716   | 44.119  | ng    | 98       |
| 52) Acenaphthene               | 14.44 | 154  | 1234641  | 45.139  | ng    | 98       |
| 53) 3-Nitroaniline             | 14.30 | 138  | 48854    | 6.149   | ng    | 86       |
| 54) 2,4-Dinitrophenol          | 14.50 | 184  | 287986   | 68.624  | ng    | 95       |
| 55) Dibenzofuran               | 14.77 | 168  | 1969634  | 43.583  | ng    | 98       |
| 56) 4-Nitrophenol              | 14.61 | 139  | 504957   | 73.564  | ng    | 91       |
| 57) 2,4-Dinitrotoluene         | 14.75 | 165  | 470634   | 42.205  | ng    | 92       |
| 58) Fluorene                   | 15.43 | 166  | 1553382  | 46.141  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.00 | 232  | 420029   | 46.834  | ng    | 97       |
| 60) Diethylphthalate           | 15.20 | 149  | 1580144  | 42.069  | ng    | 99       |
| 61) 4-Chlorophenyl-phenylether | 15.42 | 204  | 809428   | 41.716  | ng    | 98       |
| 62) 4-Nitroaniline             | 15.46 | 138  | 258012   | 29.771  | ng    | 95       |
| 63) Azobenzene                 | 15.72 | 77   | 1502833  | 49.074  | ng    | 92       |
| 65) 4,6-Dinitro-2-methylphenol | 15.52 | 198  | 218369   | 38.256  | ng    | 84       |
| 66) n-Nitrosodiphenylamine     | 15.64 | 169  | 1321544  | 46.039  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether  | 16.32 | 248  | 469502   | 45.338  | ng    | 97       |
| 68) Hexachlorobenzene          | 16.42 | 284  | 516579   | 44.560  | ng    | 98       |
| 69) Atrazine                   | 16.60 | 200  | 447570   | 43.130  | ng    | 99       |
| 70) Pentachlorophenol          | 16.77 | 266  | 602612   | 79.370  | ng    | 99       |
| 71) Phenanthrene               | 17.17 | 178  | 2303471  | 46.799  | ng    | 100      |
| 72) Anthracene                 | 17.26 | 178  | 2337044  | 49.376  | ng    | 100      |
| 73) Carbazole                  | 17.54 | 167  | 2027056  | 41.685  | ng    | 99       |
| 74) Di-n-butylphthalate        | 18.09 | 149  | 2430705  | 45.634  | ng    | 100      |
| 75) Fluoranthene               | 19.19 | 202  | 2511756  | 44.262  | ng    | 99       |
| 77) Benzidine                  | 19.39 | 184  | 349043   | 16.593  | ng    | 99       |
| 78) Pyrene                     | 19.56 | 202  | 2576739  | 51.027  | ng    | 100      |
| 80) Butylbenzylphthalate       | 20.46 | 149  | 1032640  | 47.924  | ng    | 95       |
| 81) Benzo(a)anthracene         | 21.30 | 228  | 2434807  | 48.514  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine     | 21.24 | 252  | 214932   | 11.325  | ng    | 99       |
| 83) Chrysene                   | 21.36 | 228  | 2299311  | 47.444  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.23 | 149  | 1435162  | 46.124  | ng    | 100      |
| 85) Di-n-octyl phthalate       | 22.12 | 149  | 2450981  | 46.835  | ng    | # 91     |
| 86) Indeno(1,2,3-cd)pyrene     | 25.89 | 276  | 3052778  | 54.627  | ng    | 97       |
| 88) Benzo(b)fluoranthene       | 22.90 | 252  | 2468094  | 50.049  | ng    | 98       |
| 89) Benzo(k)fluoranthene       | 22.95 | 252  | 2318249  | 46.647  | ng    | 98       |
| 90) Benzo(a)pyrene             | 23.49 | 252  | 2358208  | 49.951  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene     | 25.90 | 278  | 2569011  | 53.704  | ng    | 99       |
| 92) Benzo(g,h,i)perylene       | 26.60 | 276  | 2590688  | 55.653  | ng    | 97       |

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

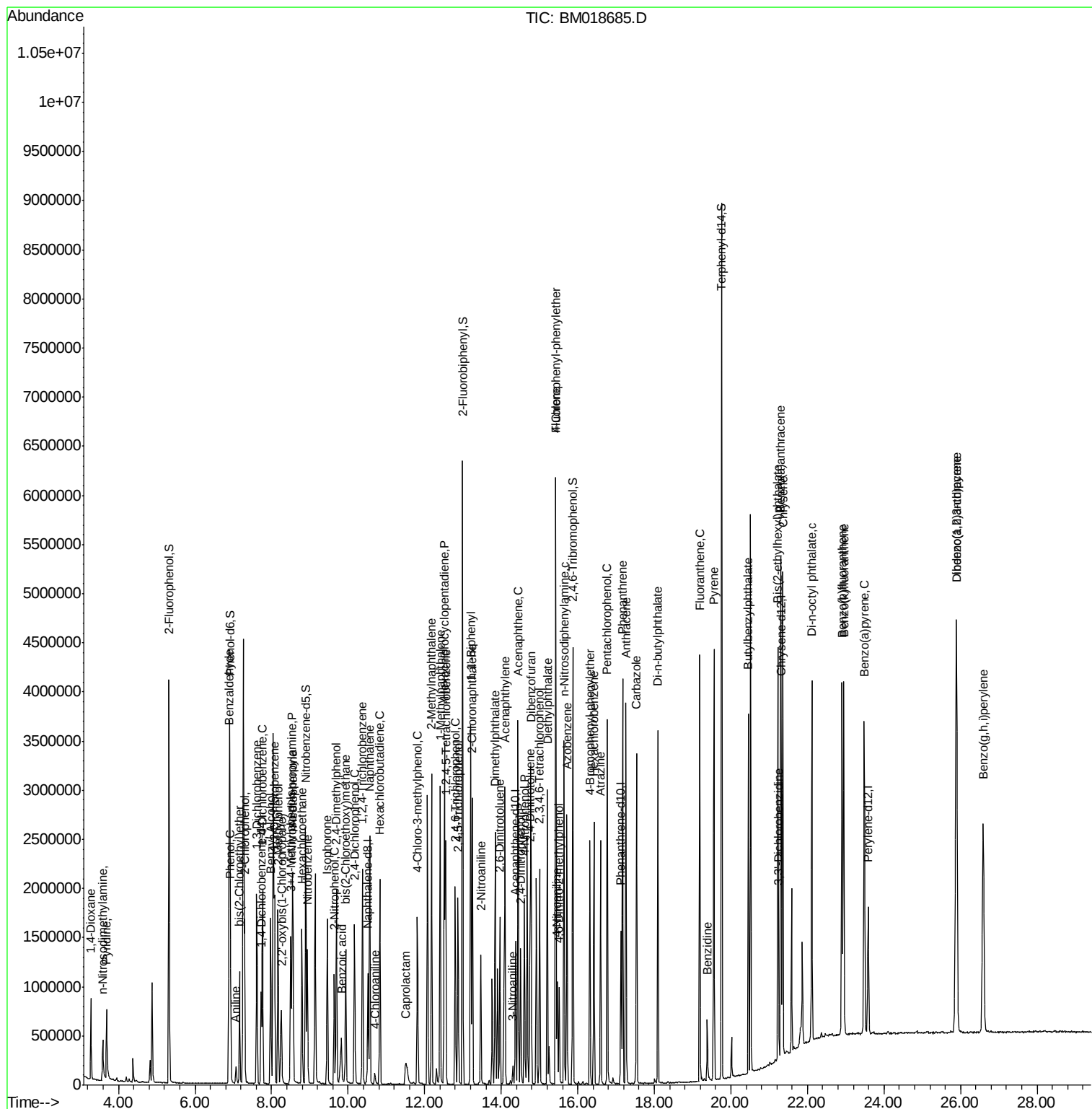
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM012919\  
Data File : BM018685.D  
Acq On : 29 Jan 2019 19:49  
Operator : JU/SJ  
Sample : K1008-04MS  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

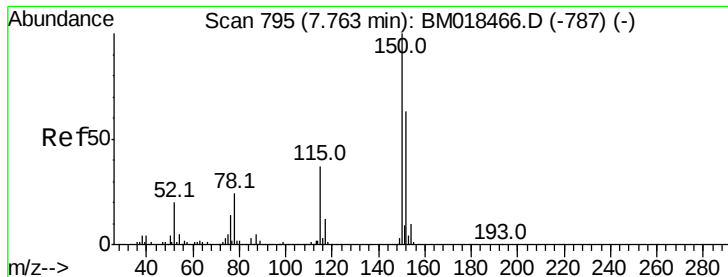
Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

Manual Integrations  
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1/30/2019 11:10:39 AM

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 18 22:01:30 2019  
Response via : Initial Calibration





#1

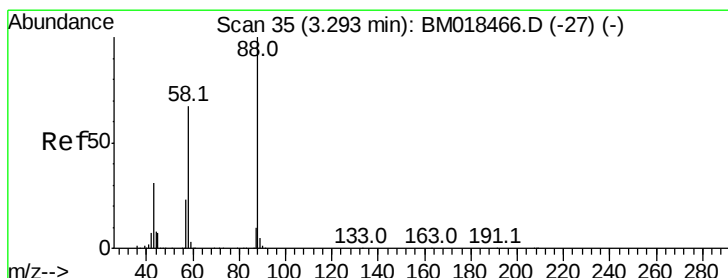
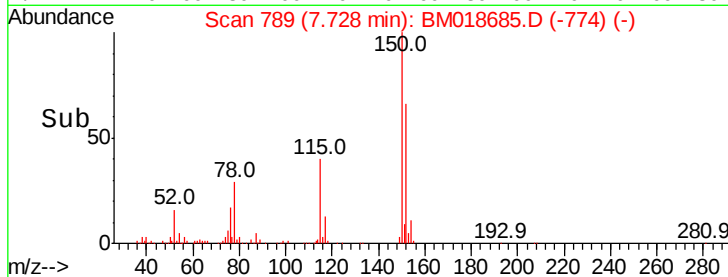
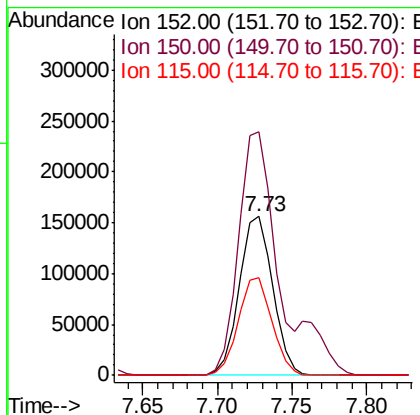
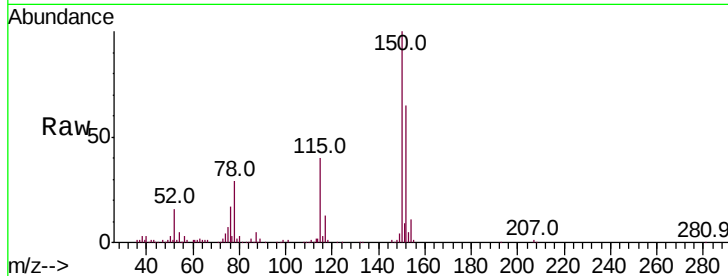
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.73 min Scan# 789  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.4 | 126.9 | 190.3 |
| 115     | 61.8  | 45.5  | 68.3  |

Manual Integrations  
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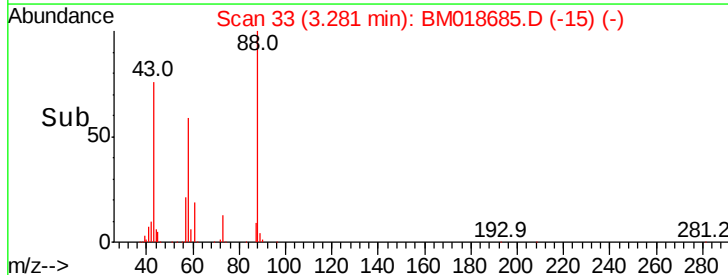
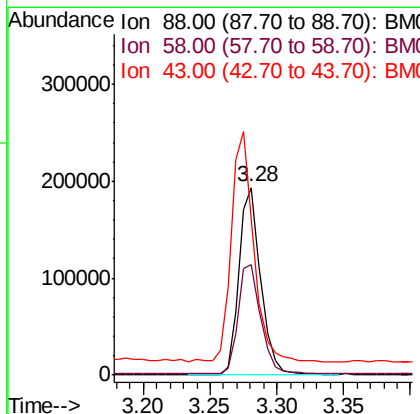
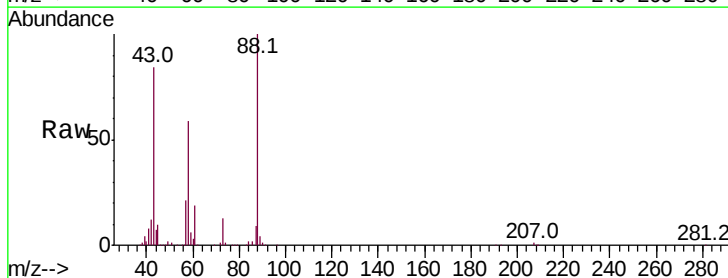
mohammad  
1/30/2019 11:10:39 AM

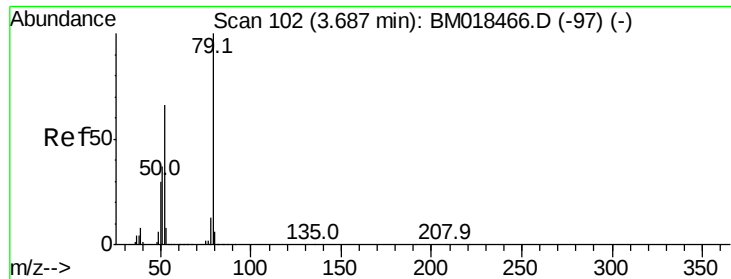


#2

1,4-Dioxane  
Concen: 40.525 ng  
RT: 3.28 min Scan# 33  
Delta R.T. 0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 61.3  | 58.4  | 87.6  |
| 43      | 127.9 | 26.2  | 39.4# |





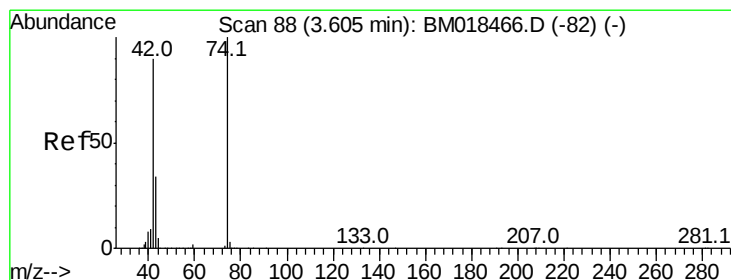
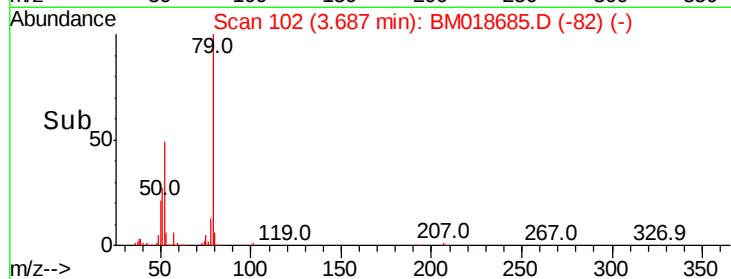
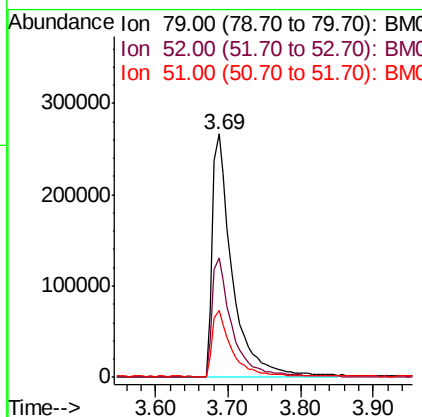
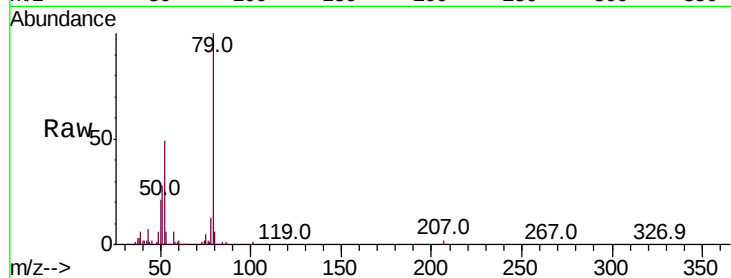
#3  
 Pvridine  
 Concen: 38.563 ng  
 RT: 3.69 min Scan# 102  
 Delta R.T. 0.02 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 52      | 49.0  | 56.4  | 84.6# |
| 51      | 27.7  | 31.0  | 46.4# |

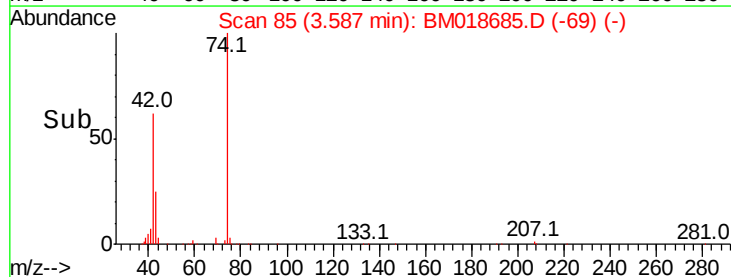
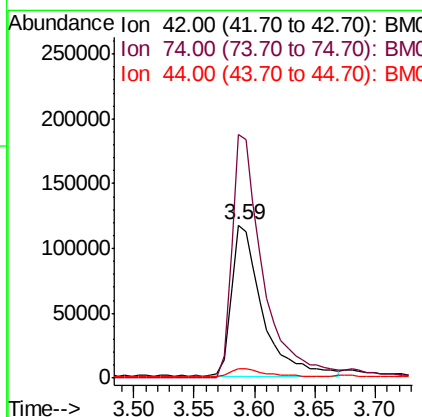
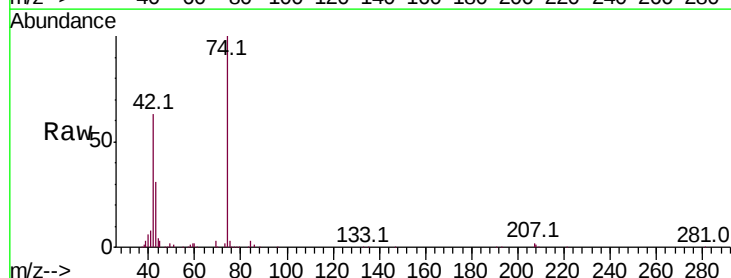
Manual Integrations  
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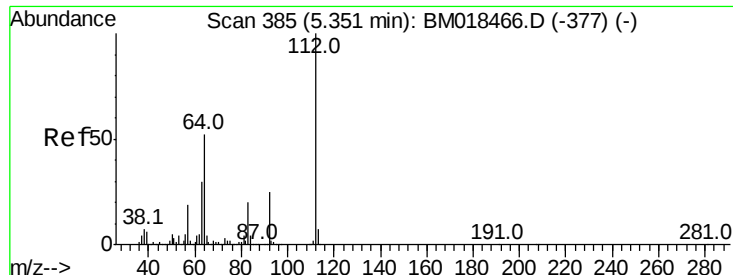
mohammad  
 1/30/2019 11:10:39 AM



#4  
 n-Nitrosodimethylamine  
 Concen: 37.257 ng  
 RT: 3.59 min Scan# 85  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 159.0 | 88.6  | 132.8# |
| 44      | 6.3   | 16.9  | 25.3#  |





#5

2-Fluorophenol

Concen: 131.048 ng

RT: 5.32 min Scan# 380

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

ClientSampleId :

HD-01-012819MS

Tot Ion:112 Resp: 1727456

Ion Ratio Lower Upper

112 100

64 55.7 46.5 69.7

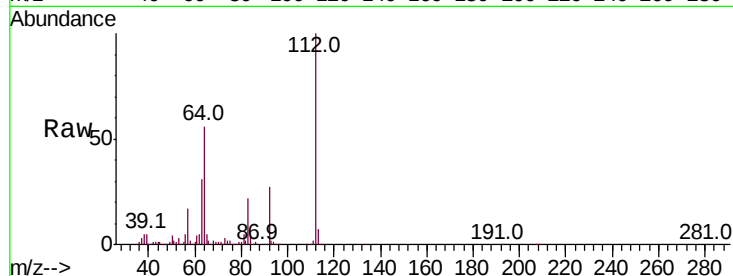
63 30.7 25.2 37.8

Manual Integrations

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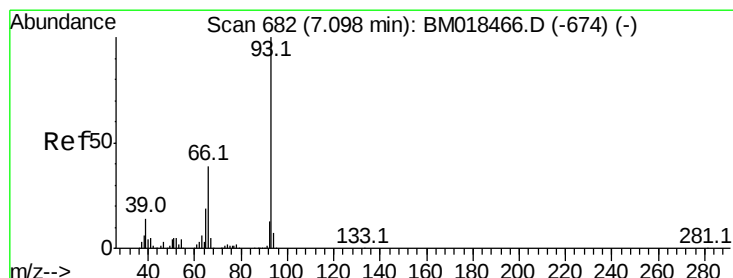
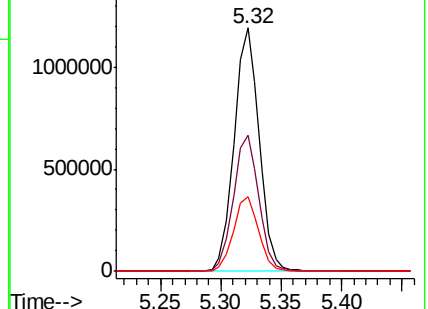
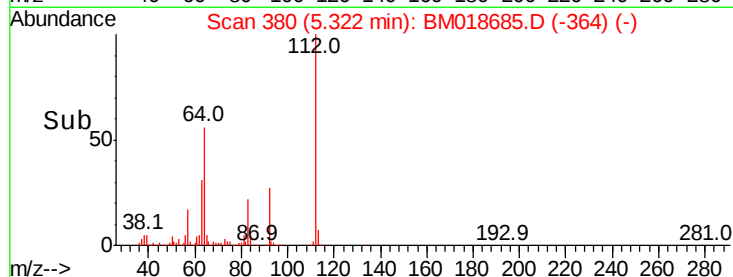
1/30/2019 11:10:39 AM



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): B

Ion 63.00 (62.70 to 63.70): B



#6

Aniline

Concen: 6.708 ng

RT: 7.07 min Scan# 677

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

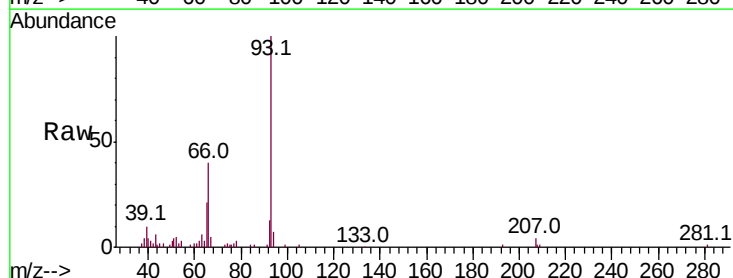
Tgt Ion: 93 Resp: 125284

Ion Ratio Lower Upper

93 100

66 40.1 31.7 47.5

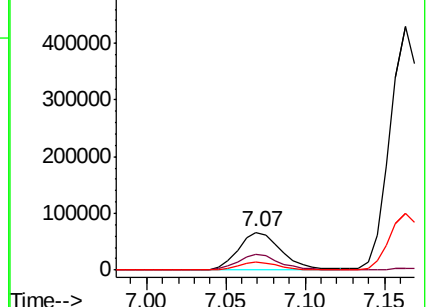
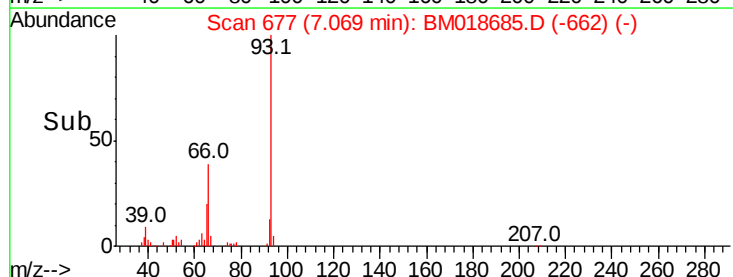
65 20.5 15.9 23.9

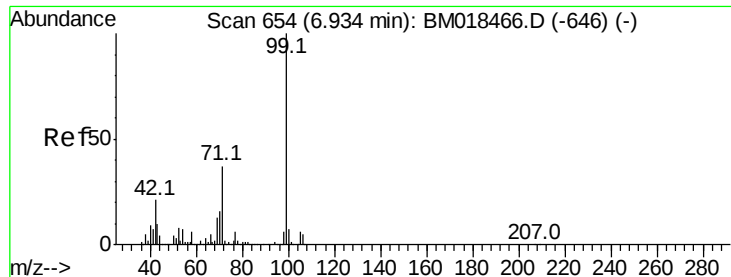


Abundance Ion 93.00 (92.70 to 93.70): B

Ion 66.00 (65.70 to 66.70): B

Ion 65.00 (64.70 to 65.70): B





#7

Phenol-d6

Concen: 119.523 ng

RT: 6.90 min Scan# 649

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

ClientSampleId :

HD-01-012819MS

Tot Ion: 99 Resp: 2001122

Ion Ratio Lower Upper

99 100

42 14.9 17.3 25.9#

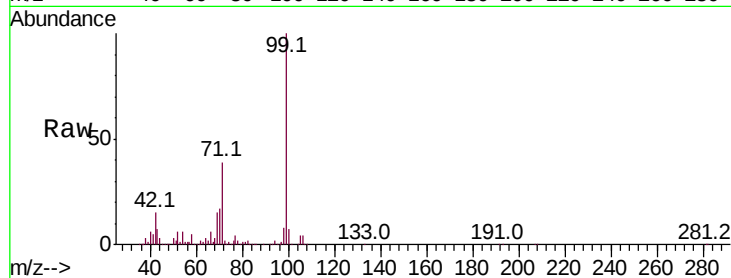
71 39.1 28.0 42.0

Manual Integrations

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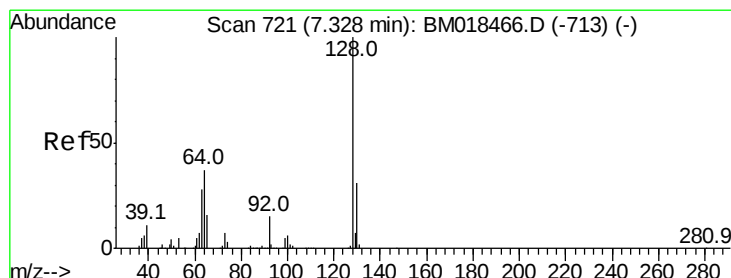
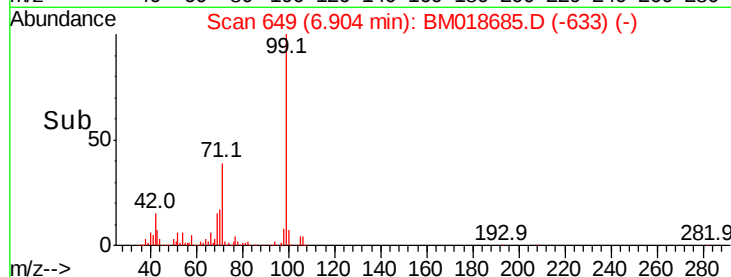
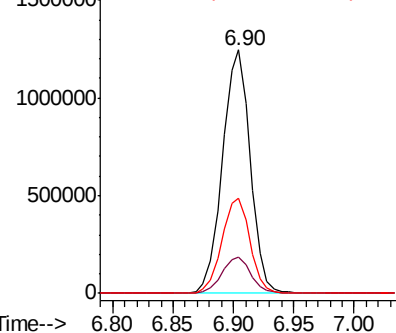
1/30/2019 11:10:39 AM



Abundance Ion 99.00 (98.70 to 99.70): BM018466.D (-646) (-)

Ion 42.00 (41.70 to 42.70): BM018466.D (-646) (-)

Ion 71.00 (70.70 to 71.70): BM018466.D (-646) (-)



#8

2-Chlorophenol

Concen: 43.491 ng

RT: 7.29 min Scan# 715

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

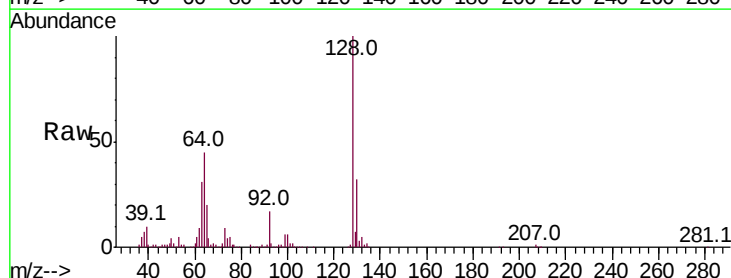
Tgt Ion: 128 Resp: 669561

Ion Ratio Lower Upper

128 100

130 32.3 13.6 53.6

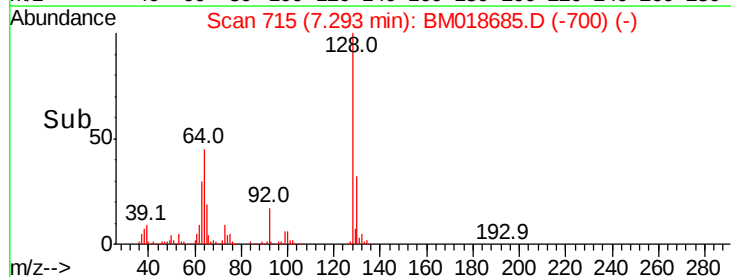
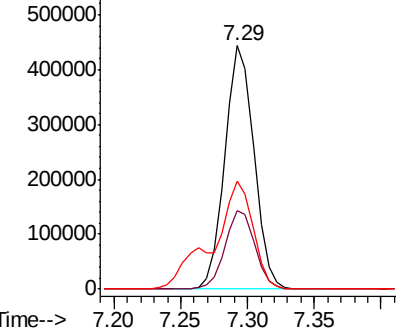
64 44.6 24.8 64.8

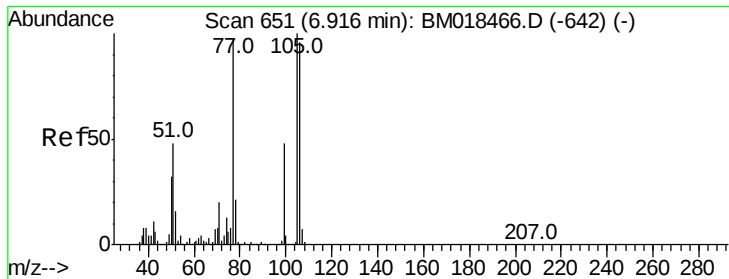


Abundance Ion 128.00 (127.70 to 128.70): BM018466.D (-713) (-)

Ion 130.00 (129.70 to 130.70): BM018466.D (-713) (-)

Ion 64.00 (63.70 to 64.70): BM018466.D (-713) (-)





#9

Benzaldehyde

Concen: 60.412 ng

RT: 6.89 min Scan# 646

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

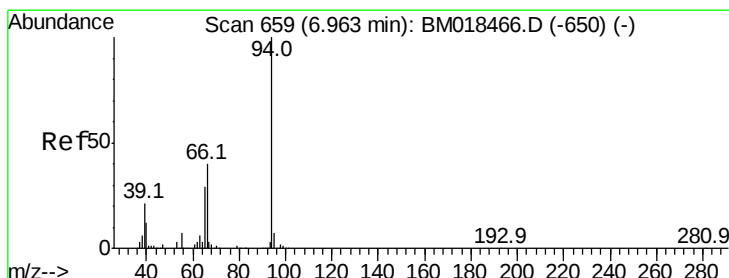
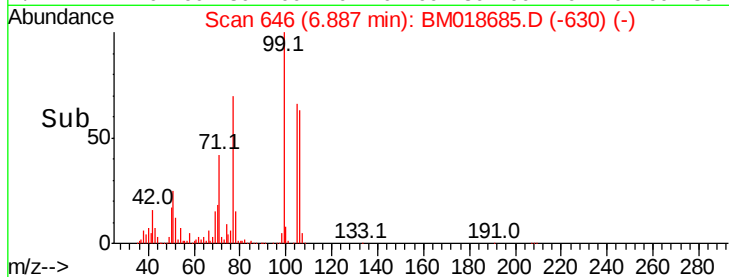
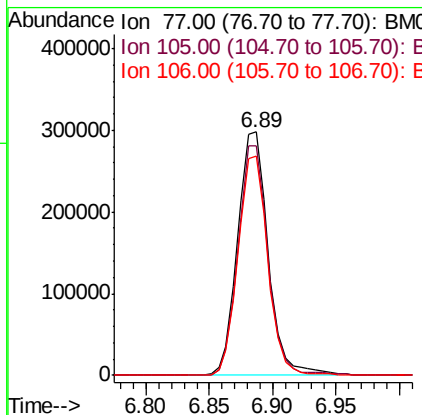
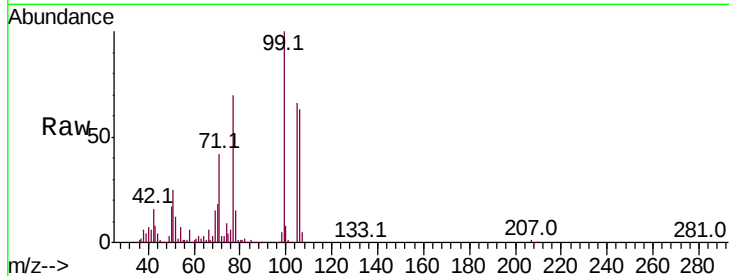
ClientSampleId :

HD-01-012819MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 77    | Resp: | 497583 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 94.4  | 79.7  | 119.7  |
| 106       | 89.8  | 75.2  | 115.2  |

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#10

Phenol

Concen: 40.273 ng

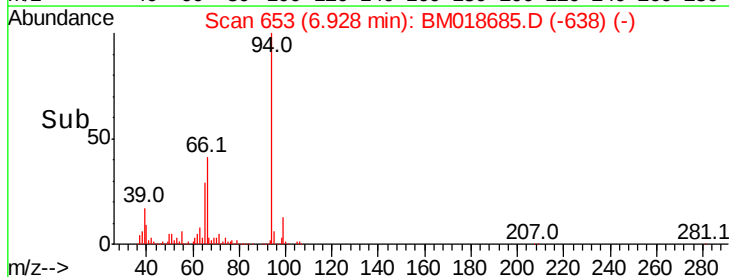
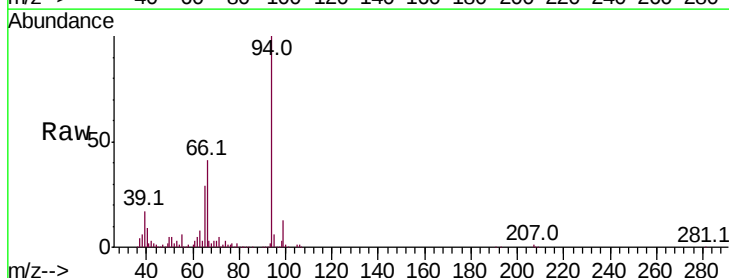
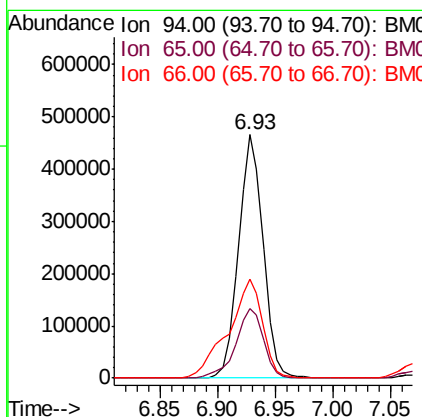
RT: 6.93 min Scan# 653

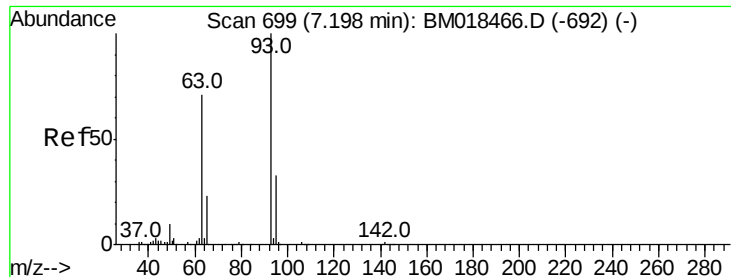
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 685167 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 28.6  | 9.4   | 49.4   |
| 66        | 40.6  | 19.1  | 59.1   |





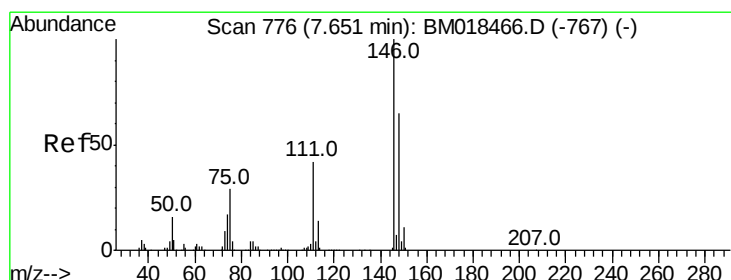
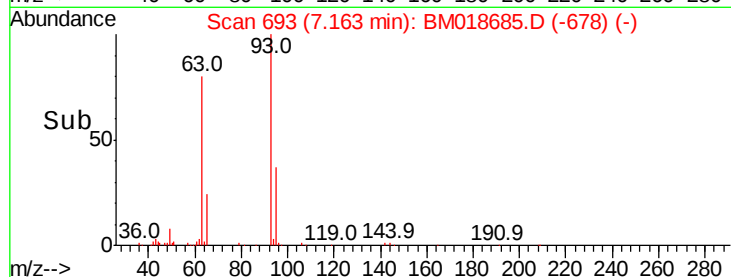
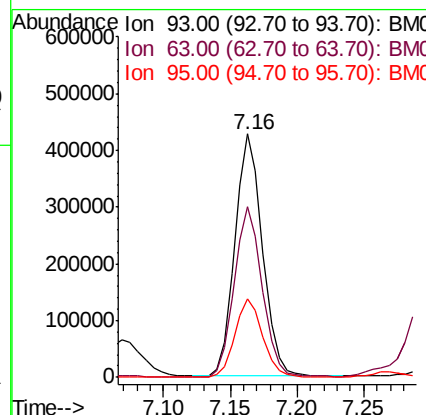
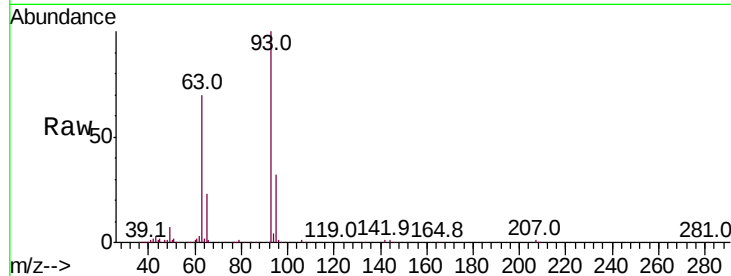
#11  
bis(2-Chloroethyl)ether  
Concen: 46.115 ng  
RT: 7.16 min Scan# 693  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 93    | Resp: | 616475 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 69.9  | 56.4  | 96.4   |
| 95        | 32.0  | 12.7  | 52.7   |

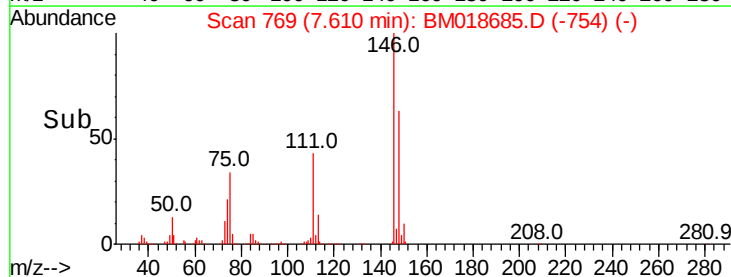
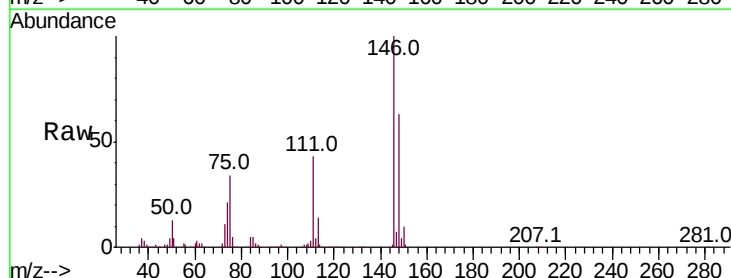
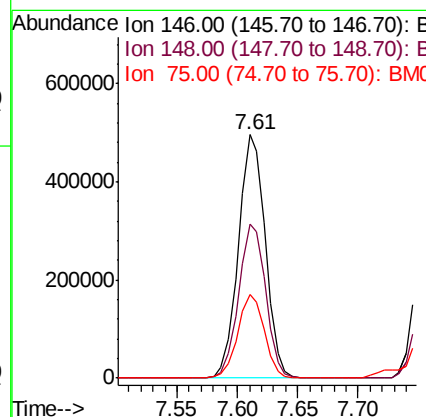
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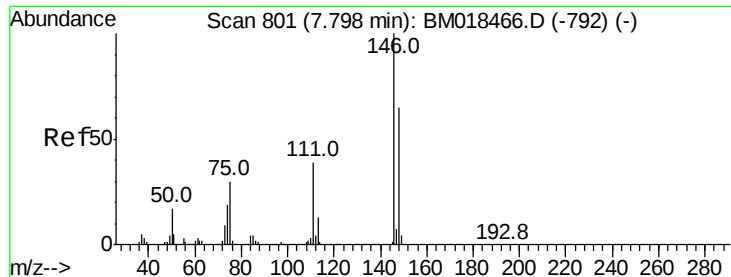
mohammad  
1/30/2019 11:10:39 AM



#12  
1,3-Dichlorobenzene  
Concen: 41.917 ng  
RT: 7.61 min Scan# 769  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 768521 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 63.1  | 50.5  | 75.7   |
| 75        | 34.3  | 23.0  | 34.6   |





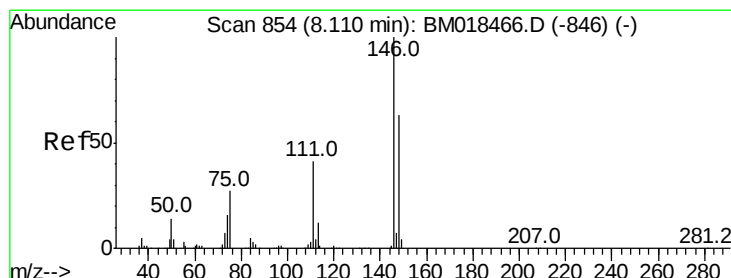
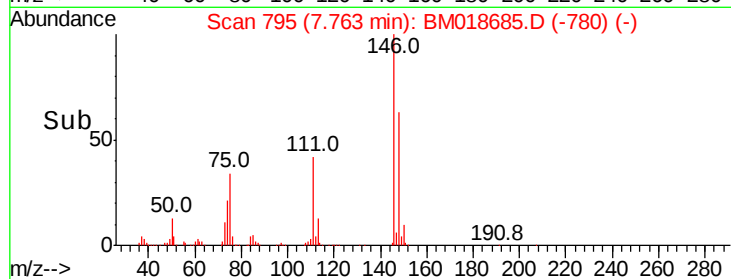
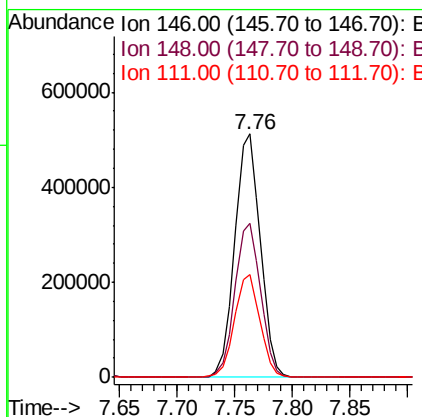
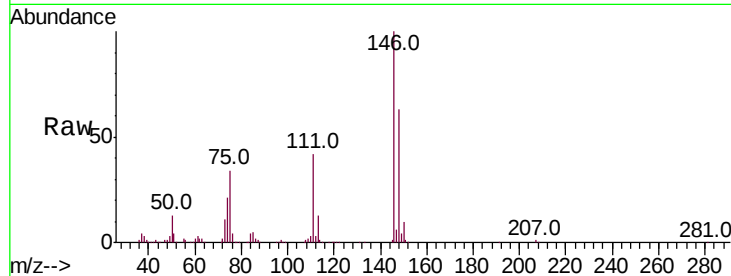
#13  
1,4-Dichlorobenzene  
Concen: 42.245 ng  
RT: 7.76 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.4  | 50.8  | 76.2  |
| 111     | 42.2  | 32.2  | 48.2  |

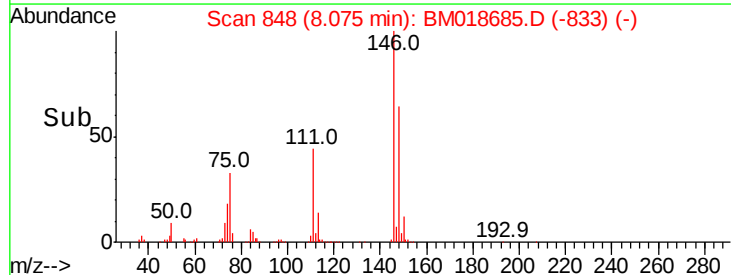
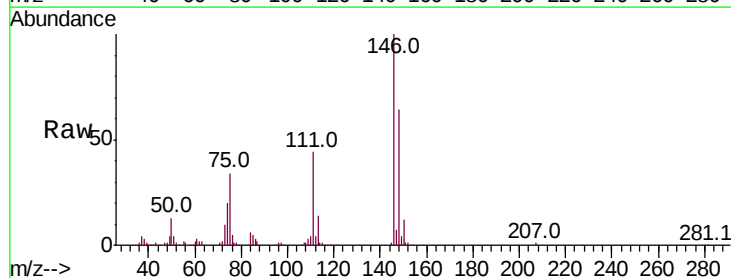
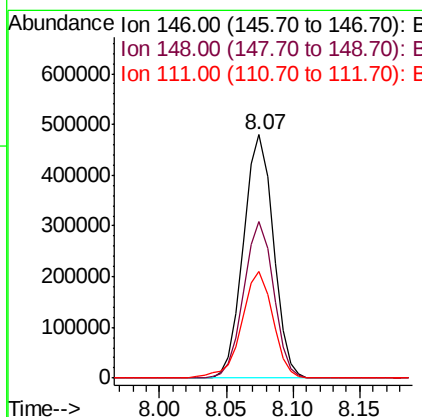
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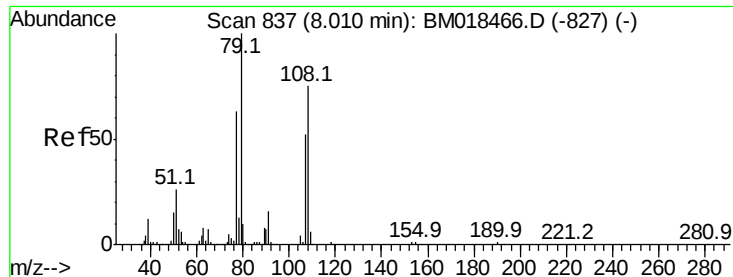
mohammad  
1/30/2019 11:10:39 AM



#14  
1,2-Dichlorobenzene  
Concen: 42.225 ng  
RT: 8.07 min Scan# 848  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.4  | 51.0  | 76.6  |
| 111     | 43.6  | 33.8  | 50.6  |





#15

Benzyl Alcohol

Concen: 49.351 ng

RT: 7.97 min Scan# 831

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

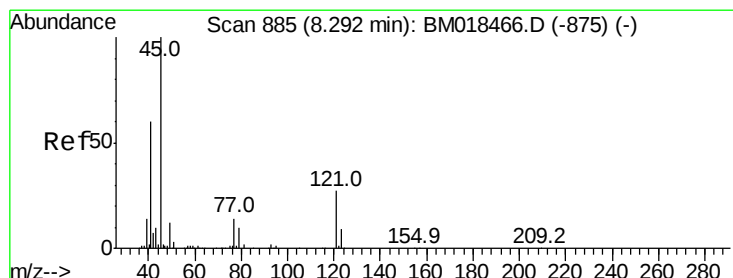
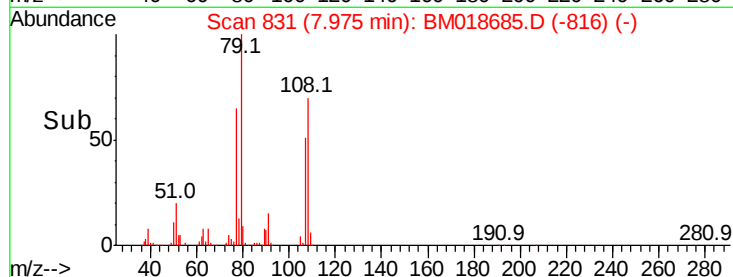
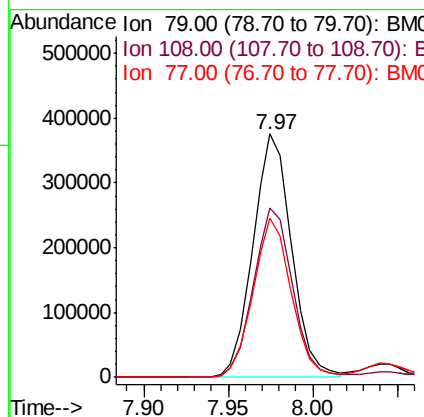
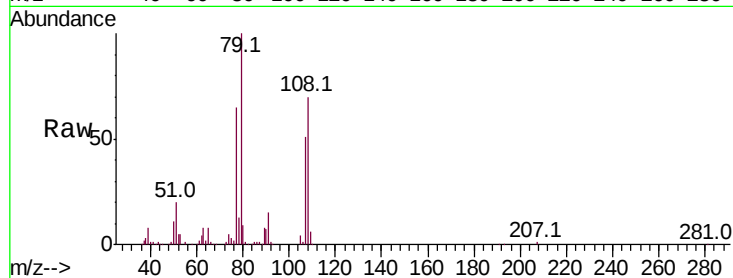
ClientSampleId :

HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 69.8  | 60.4  | 90.6  |
| 77      | 65.3  | 53.4  | 80.2  |

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#16

2,2'-oxybis(1-Chloropropane)

Concen: 32.081 ng

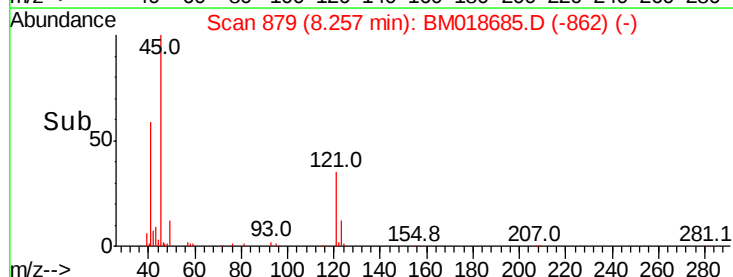
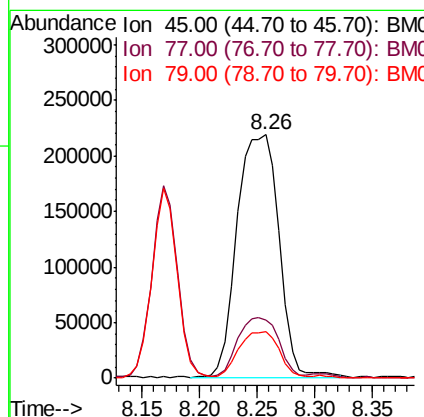
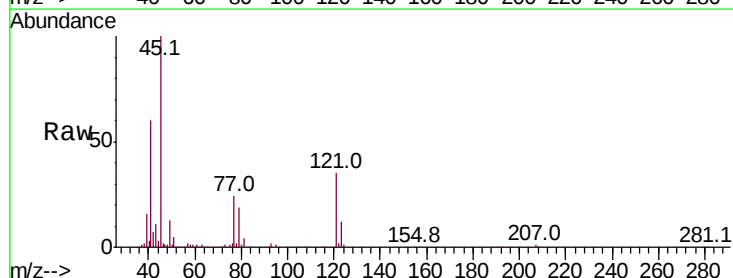
RT: 8.26 min Scan# 879

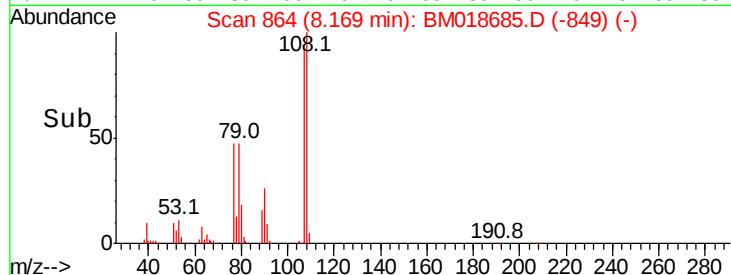
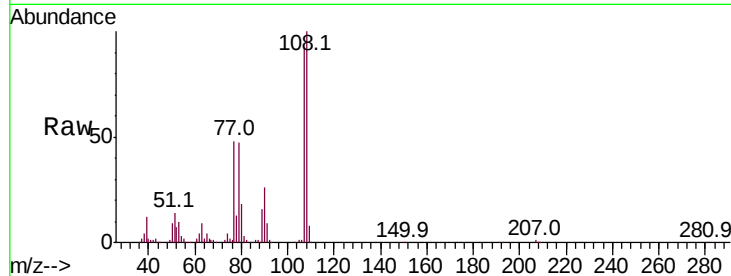
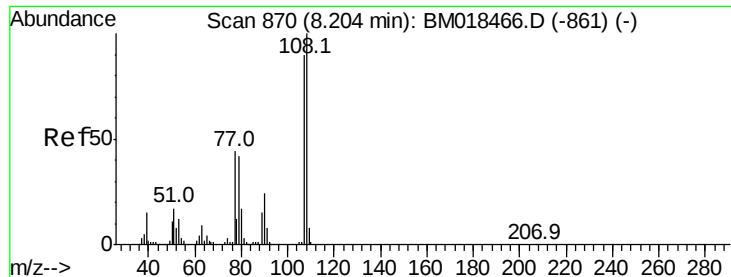
Delta R.T. -0.00 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

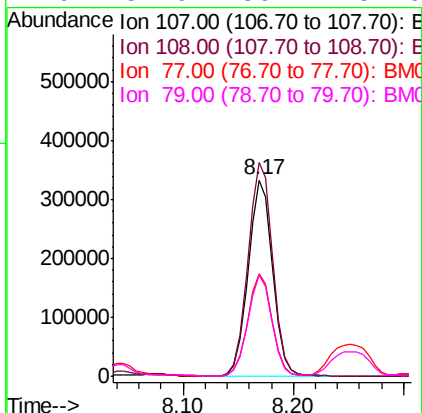
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 23.8  | 0.0   | 33.4  |
| 79      | 19.0  | 0.0   | 31.1  |





#17  
2-Methylphenol  
Concen: 44.893 ng  
RT: 8.17 min Scan# 864  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

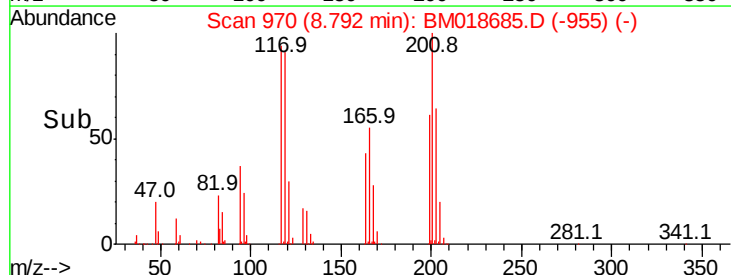
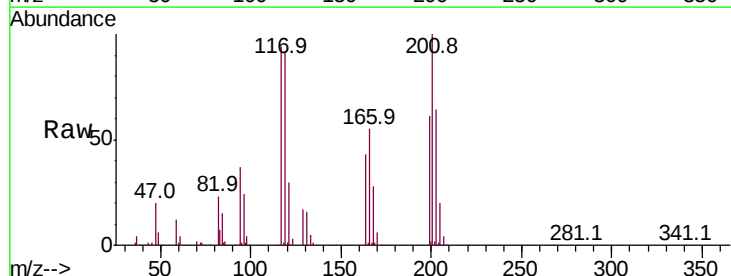
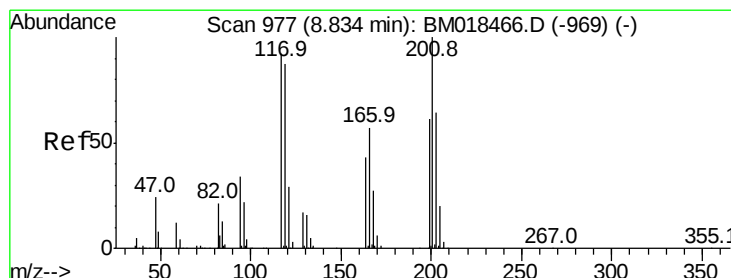
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 108     | 109.0 | 87.5 | 131.3 |       |
| 77      | 52.1  | 37.3 | 55.9  |       |
| 79      | 51.6  | 36.4 | 54.6  |       |



Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

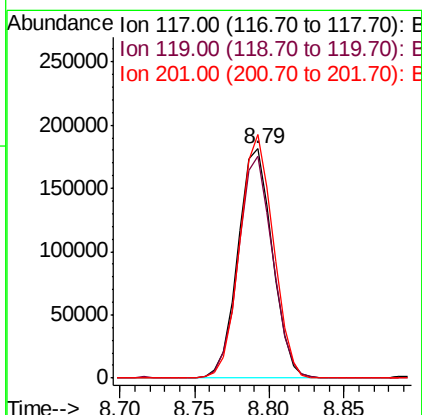
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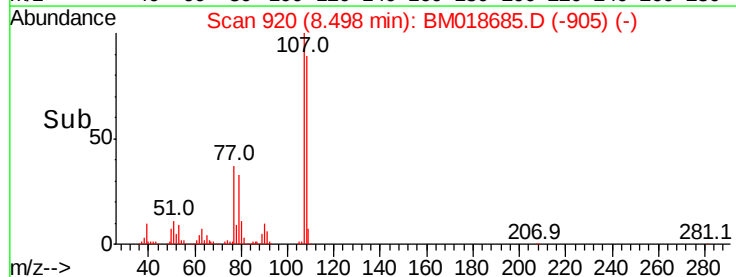
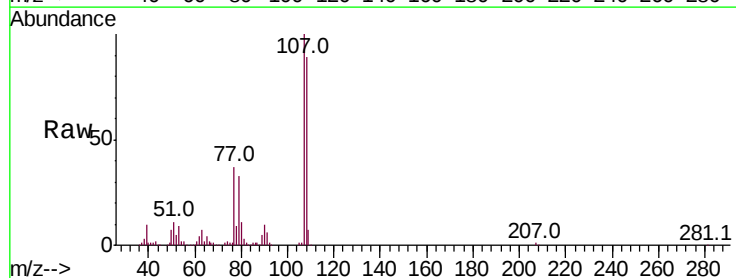
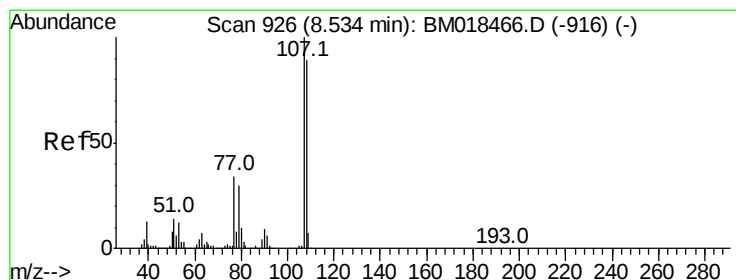
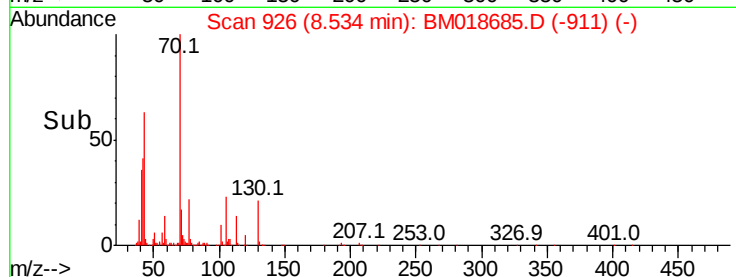
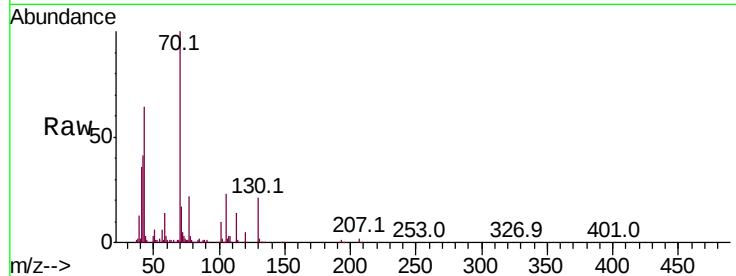
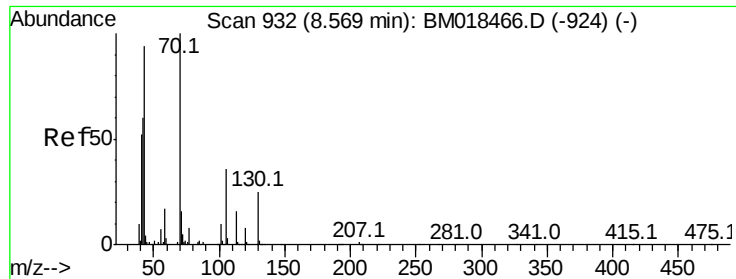
mohammad  
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#18  
Hexachloroethane  
Concen: 43.714 ng  
RT: 8.79 min Scan# 970  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   |      |       |       |
| 119     | 96.5  | 78.3 | 117.5 |       |
| 201     | 106.1 | 81.4 | 122.0 |       |





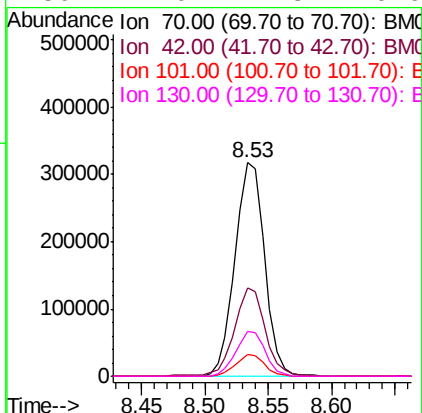
#19  
n-Nitroso-di-n-propylamine  
Concen: 47.262 ng  
RT: 8.53 min Scan# 926  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 41.4  | 54.0  | 81.0# |
| 101     | 10.0  | 8.1   | 12.1  |
| 130     | 21.0  | 17.8  | 26.6  |

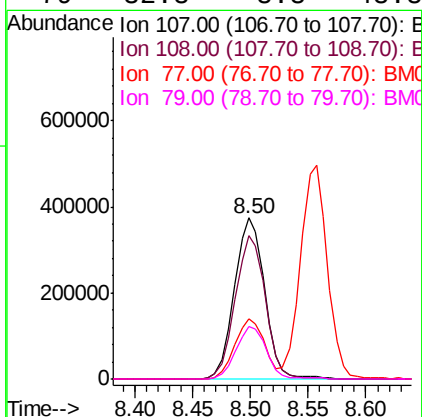
Manual Integrations  
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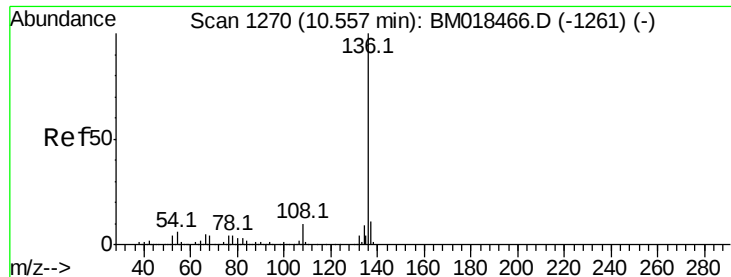
mohammad  
1/30/2019 11:10:39 AM



#20  
3+4-Methylphenols  
Concen: 42.527 ng  
RT: 8.50 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 89.3  | 66.8  | 106.8 |
| 77      | 37.2  | 13.3  | 53.3  |
| 79      | 32.8  | 8.8   | 48.8  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.52 min Scan# 1263

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

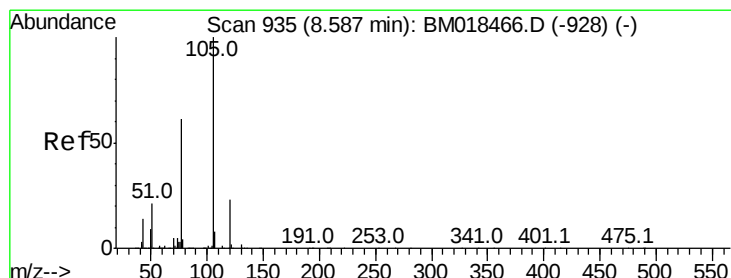
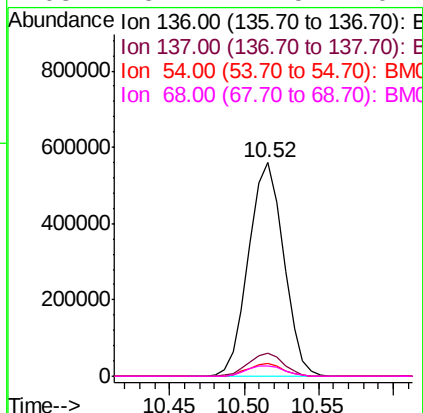
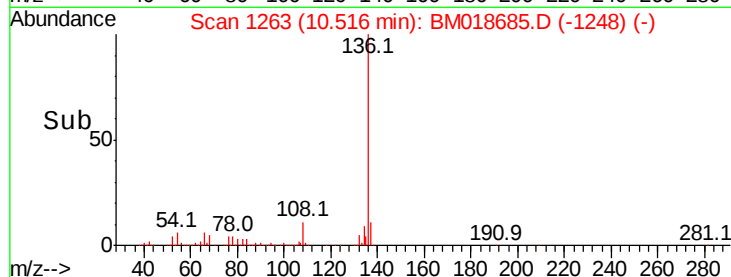
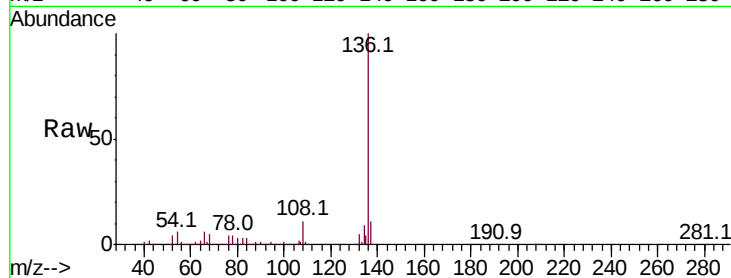
ClientSampleId :

HD-01-012819MS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 911966 |       |       |
| 137     | 10.6  |        | 8.5   | 12.7  |
| 54      | 5.9   |        | 6.0   | 9.0#  |
| 68      | 5.1   |        | 4.5   | 6.7   |

Manual Integrations  
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1/30/2019 11:10:39 AM



#22

Acetophenone

Concen: 43.663 ng

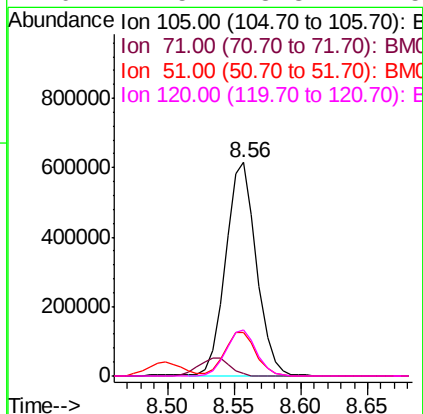
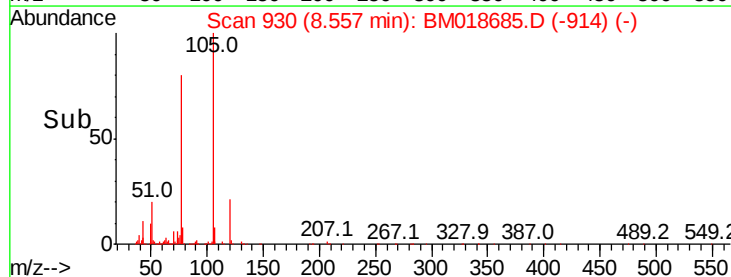
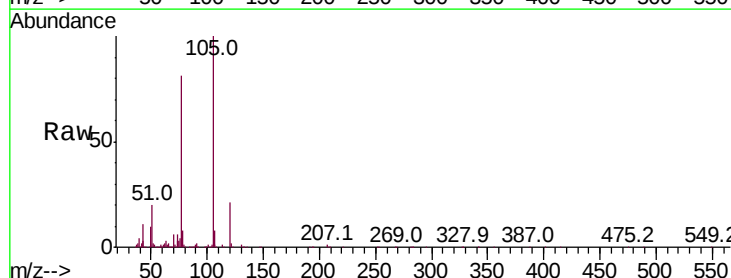
RT: 8.56 min Scan# 930

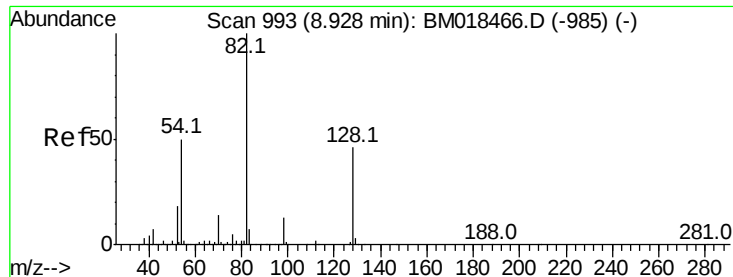
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 985018 |       |       |
| 71      | 1.0   |        | 1.7   | 2.5#  |
| 51      | 20.1  |        | 22.6  | 34.0# |
| 120     | 21.5  |        | 18.3  | 27.5  |





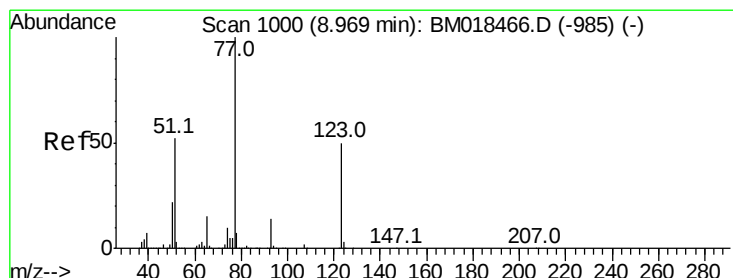
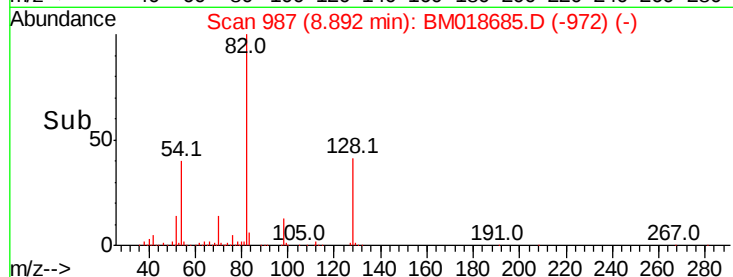
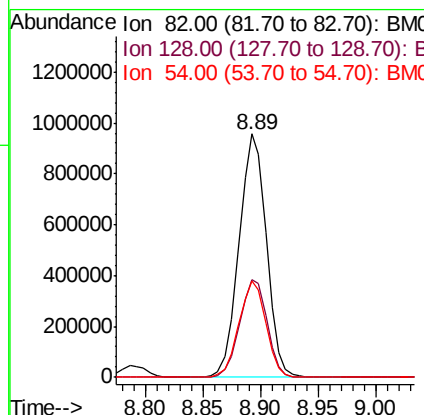
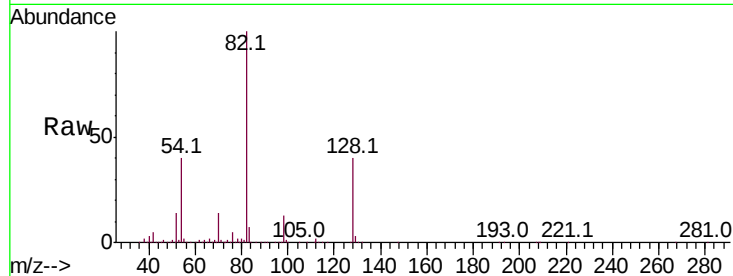
#23  
Nitrobenzene-d5  
Concen: 99.799 ng  
RT: 8.89 min Scan# 987  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

Tot Ion: 82 Resp: 1569976  
Ion Ratio Lower Upper  
82 100  
128 40.2 36.3 54.5  
54 39.5 41.7 62.5#

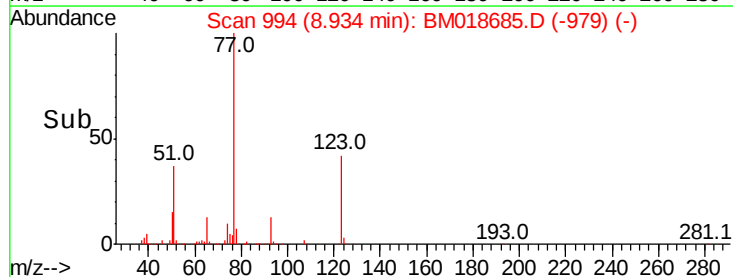
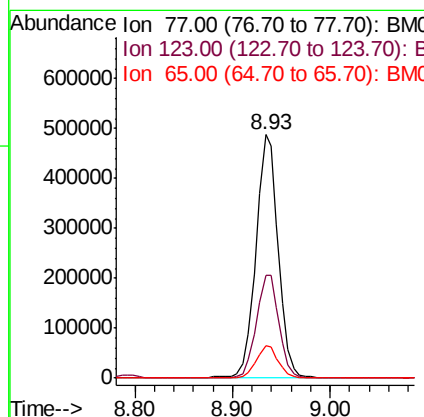
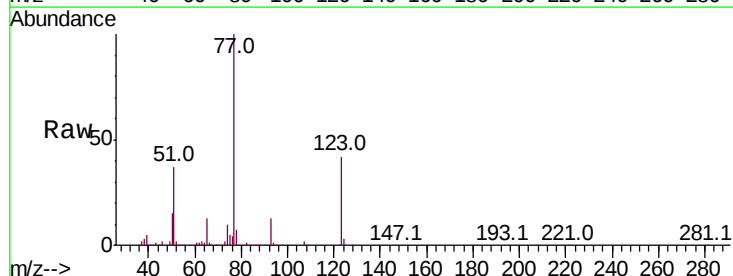
Manual Integrations  
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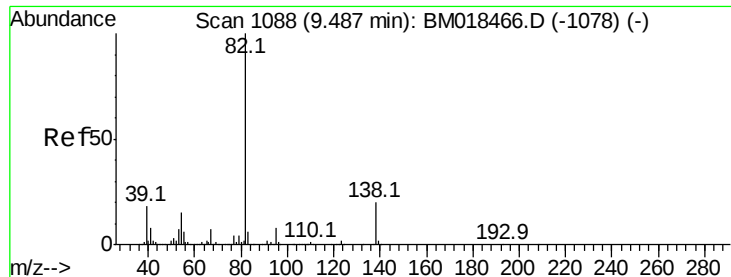
mohammad  
1/30/2019 11:10:39 AM



#24  
Nitrobenzene  
Concen: 50.430 ng  
RT: 8.93 min Scan# 994  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Tgt Ion: 77 Resp: 780587  
Ion Ratio Lower Upper  
77 100  
123 42.5 37.7 56.5  
65 13.2 11.0 16.6





#25

Isophorone

Concen: 53.903 ng

RT: 9.46 min Scan# 1083

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

ClientSampleId :

HD-01-012819MS

Tot Ion: 82 Resp: 1284075

Ion Ratio Lower Upper

82 100

95 7.7 6.1 9.1

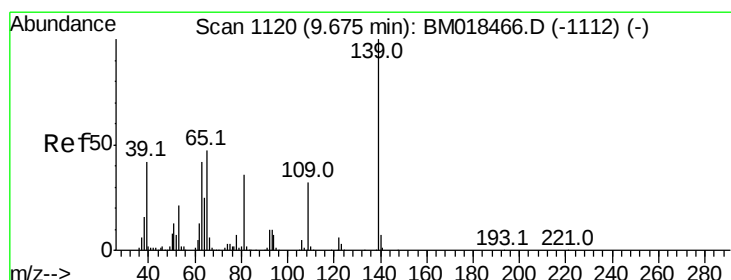
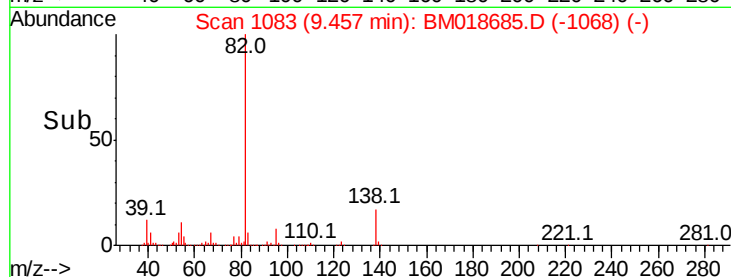
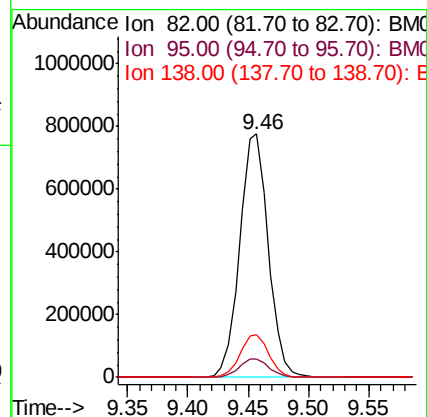
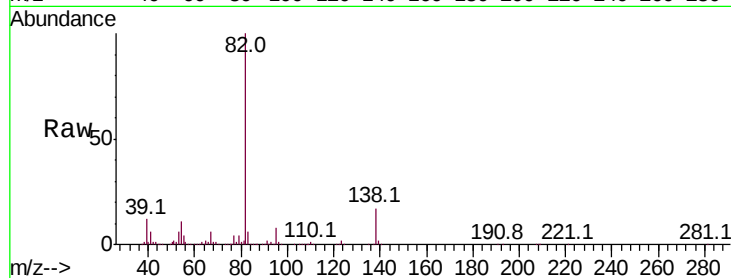
138 17.4 15.1 22.7

Manual Integrations

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#26

2-Nitrophenol

Concen: 46.071 ng

RT: 9.64 min Scan# 1114

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

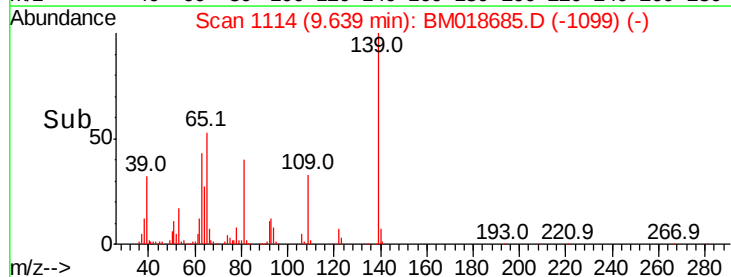
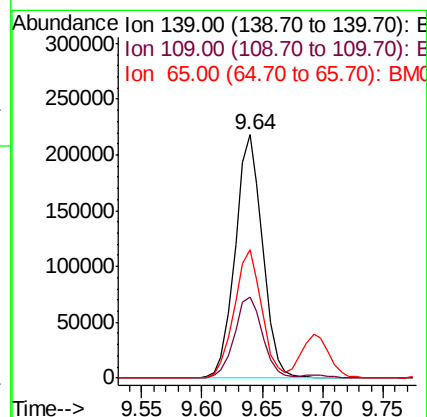
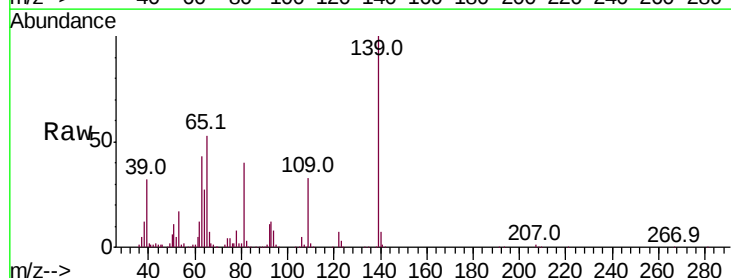
Tgt Ion: 139 Resp: 344819

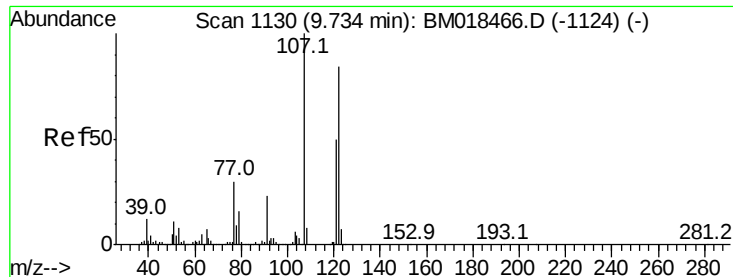
Ion Ratio Lower Upper

139 100

109 33.4 23.4 35.2

65 52.6 39.4 59.2





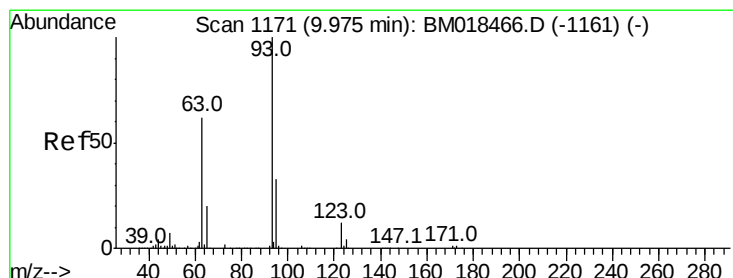
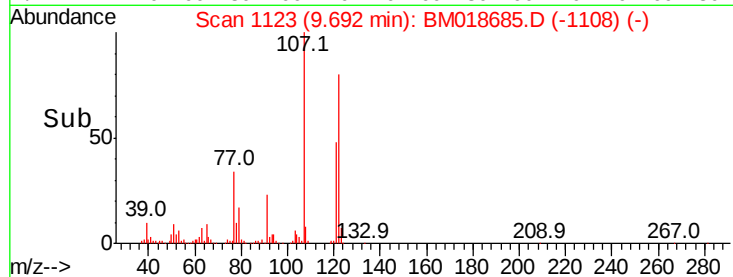
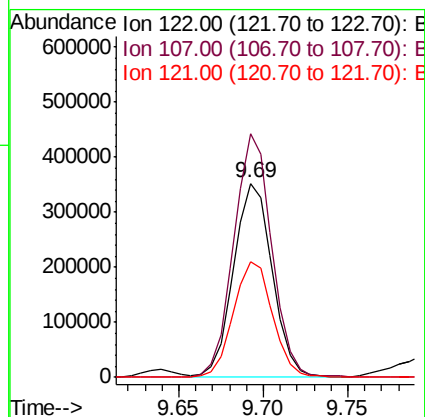
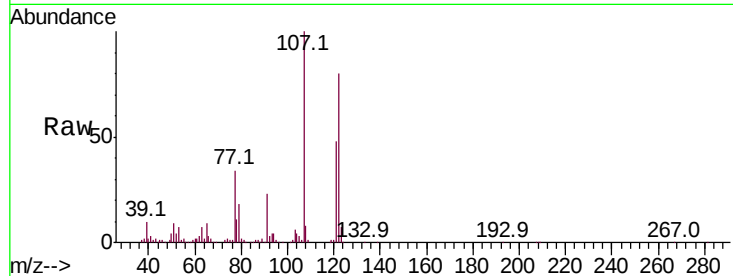
#27  
2,4-Dimethylphenol  
Concen: 49.649 ng  
RT: 9.69 min Scan# 1123  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 556981 |       |       |
| 107     | 125.7 | 91.9   | 137.9 |       |
| 121     | 59.9  | 47.5   | 71.3  |       |

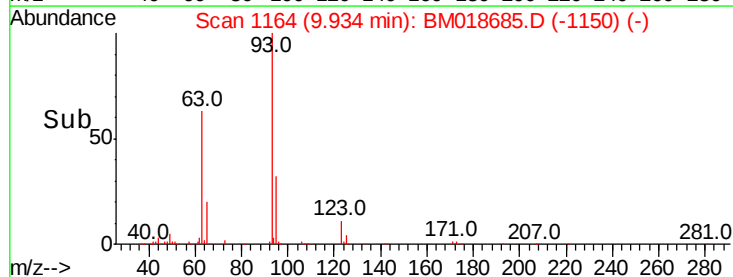
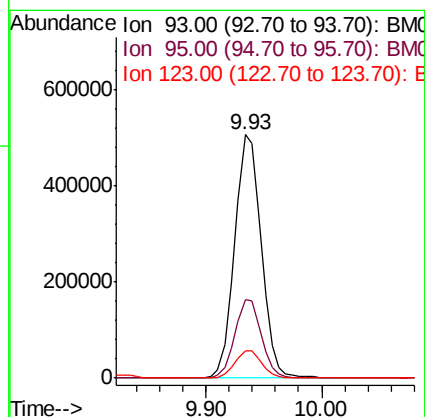
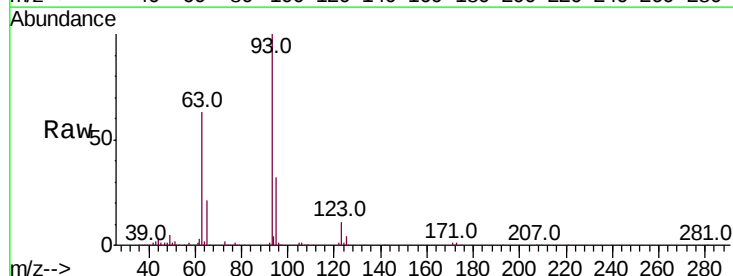
Manual Integrations  
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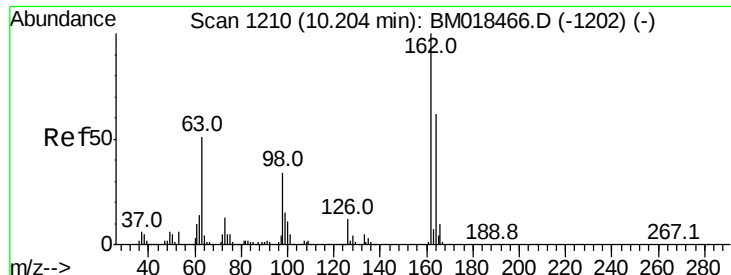
mohammad  
1/30/2019 11:10:39 AM



#28  
bis(2-Chloroethoxy)methane  
Concen: 49.226 ng  
RT: 9.93 min Scan# 1164  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 810086 |       |       |
| 95      | 32.3  | 26.6   | 39.8  |       |
| 123     | 11.5  | 9.9    | 14.9  |       |





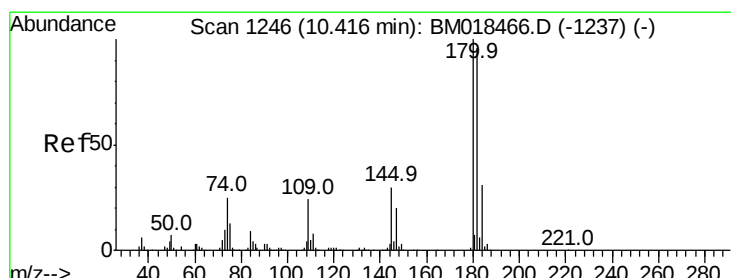
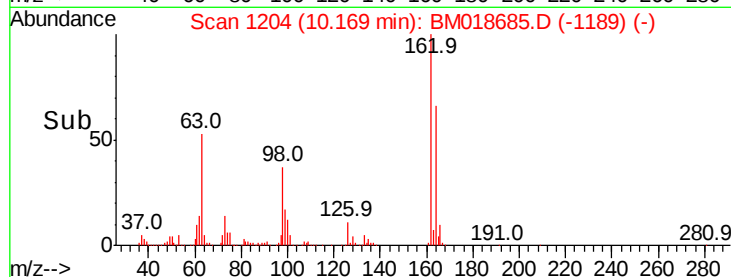
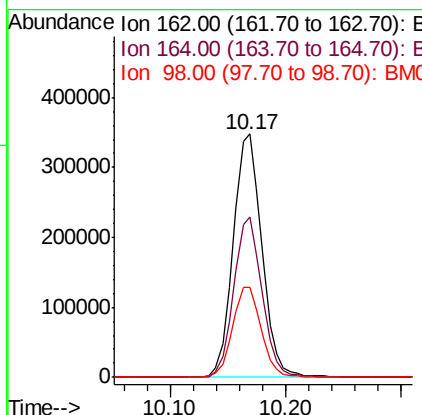
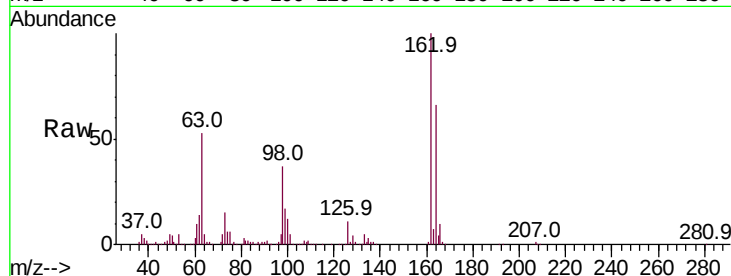
#29  
2,4-Dichlorophenol  
Concen: 44.806 ng  
RT: 10.17 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 162     | 100   |            |       |
| 164     | 65.8  | 45.6       | 85.6  |
| 98      | 37.1  | 14.7       | 54.7  |

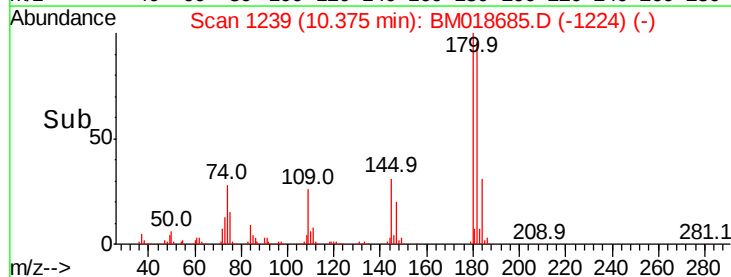
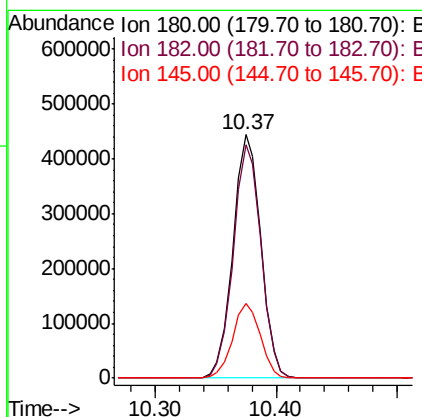
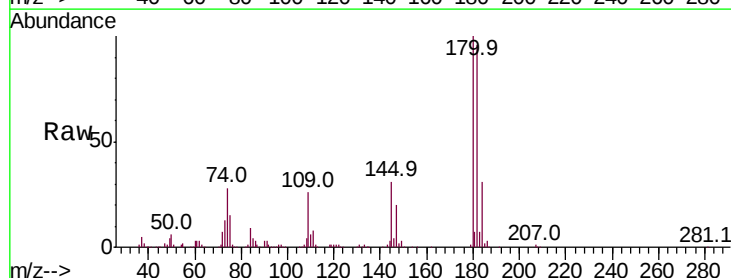
Manual Integrations  
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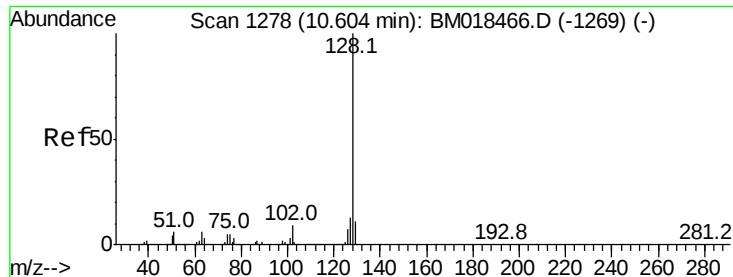
mohammad  
1/30/2019 11:10:39 AM



#30  
1,2,4-Trichlorobenzene  
Concen: 43.082 ng  
RT: 10.37 min Scan# 1239  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 180     | 100   |            |       |
| 182     | 95.6  | 77.4       | 116.2 |
| 145     | 30.9  | 24.6       | 37.0  |





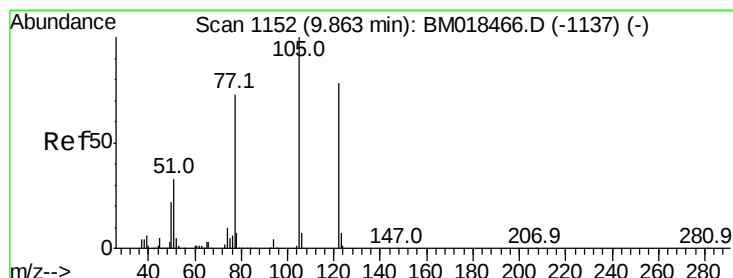
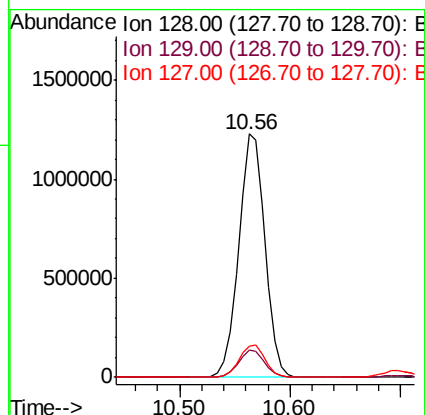
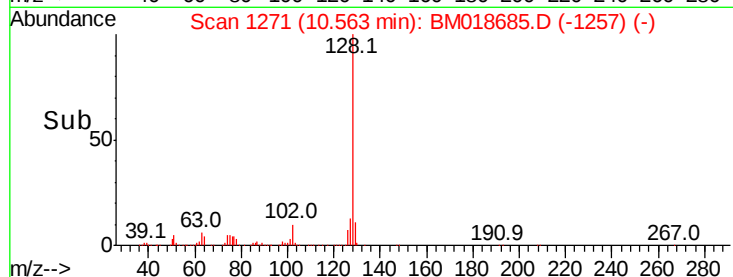
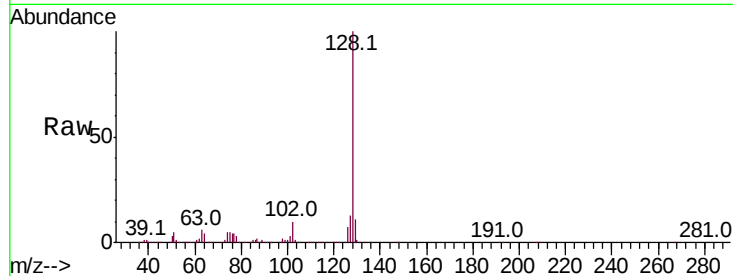
#31  
Naphthalene  
Concen: 46.481 ng  
RT: 10.56 min Scan# 1271  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.1  | 8.7   | 13.1  |
| 127     | 12.9  | 10.8  | 16.2  |

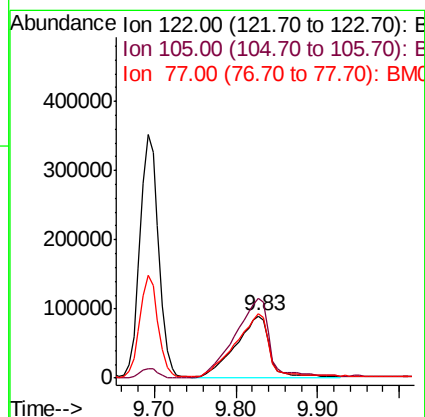
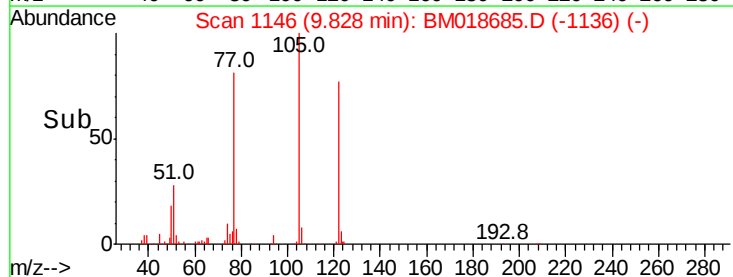
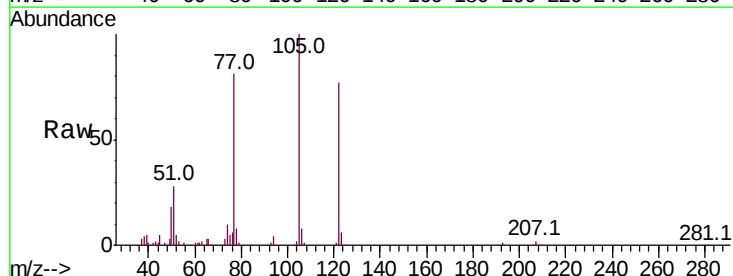
Manual Integrations  
APPROVED

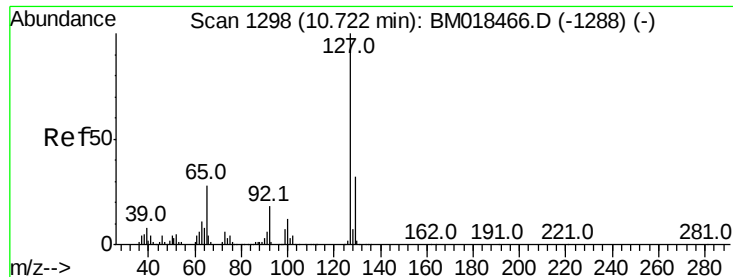
mohammad  
1/30/2019 11:10:39 AM



#32  
Benzoic acid  
Concen: 35.724 ng m  
RT: 9.83 min Scan# 1146  
Delta R.T. -0.04 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 105     | 129.8 | 100.4 | 140.4 |
| 77      | 105.0 | 71.7  | 111.7 |





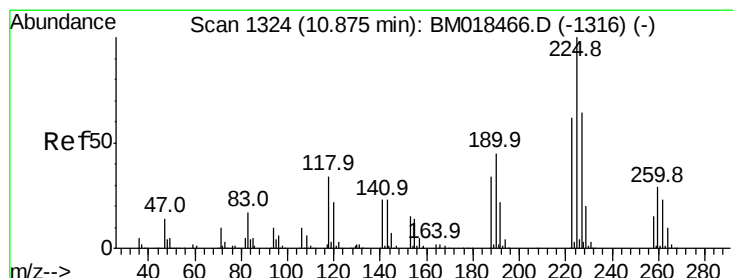
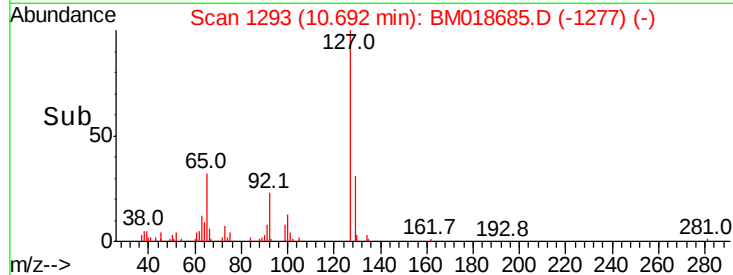
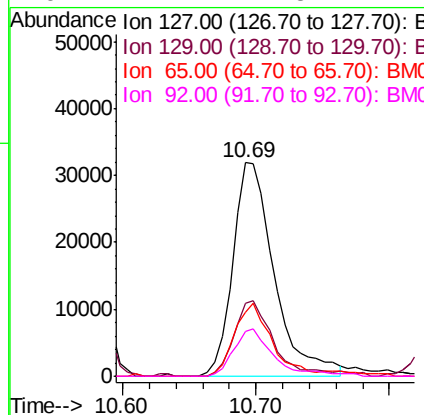
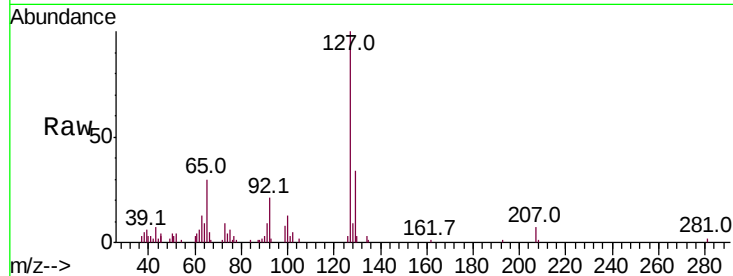
#33  
4-Chloroaniline  
Concen: 3.989 ng  
RT: 10.69 min Scan# 1293  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 127     | 100  |       |      |       |       |
| 129     | 34.2 | 25.9  | 38.9 |       |       |
| 65      | 30.2 | 23.4  | 35.2 |       |       |
| 92      | 21.2 | 14.5  | 21.7 |       |       |

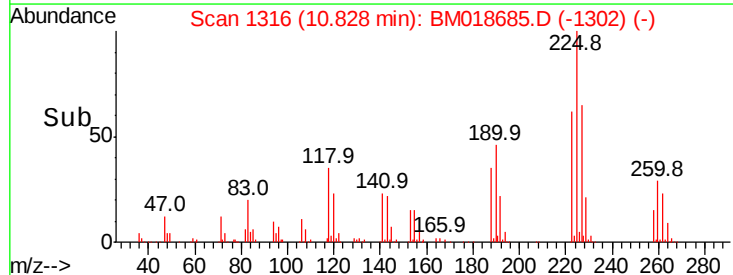
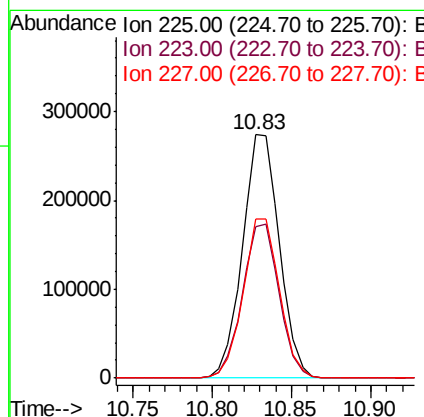
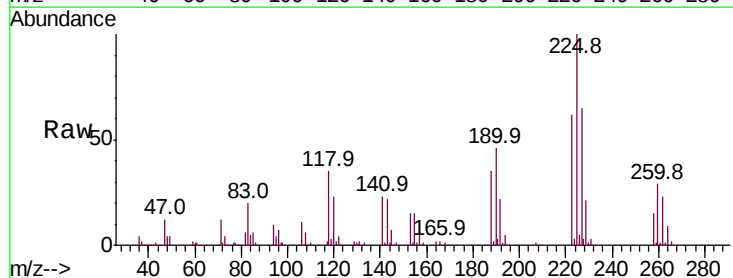
Manual Integrations  
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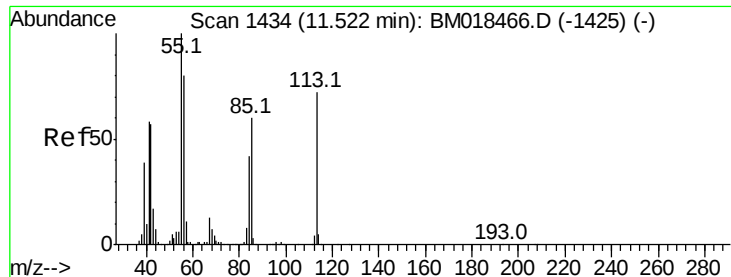
mohammad  
1/30/2019 11:10:39 AM



#34  
Hexachlorobutadiene  
Concen: 42.156 ng  
RT: 10.83 min Scan# 1316  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 225     | 100  |       |      |       |       |
| 223     | 62.0 | 50.8  | 76.2 |       |       |
| 227     | 65.4 | 50.4  | 75.6 |       |       |





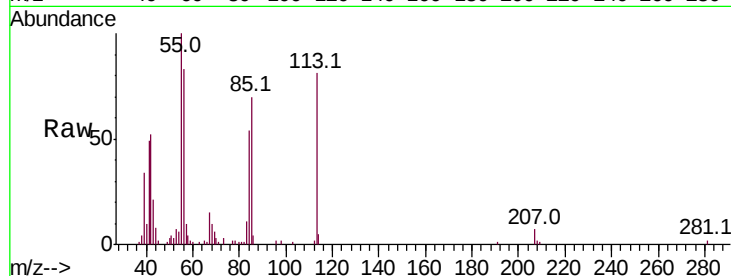
#35  
Caprolactam  
Concen: 25.346 ng/ml  
RT: 11.50 min Scan# 1431  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 55      | 123.4 | 139.3 | 179.3# |
| 56      | 102.9 | 101.4 | 141.4  |

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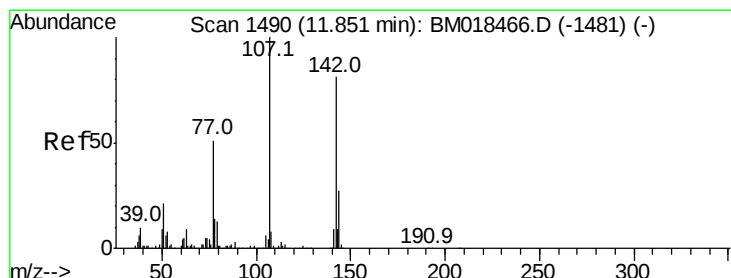
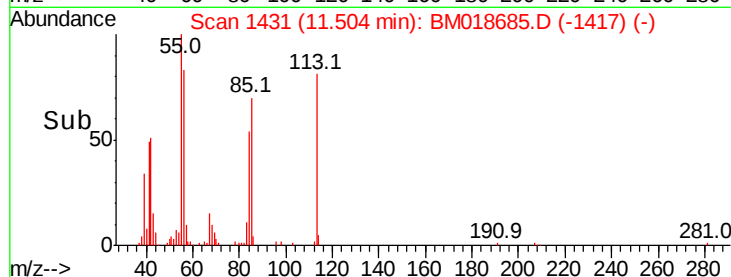
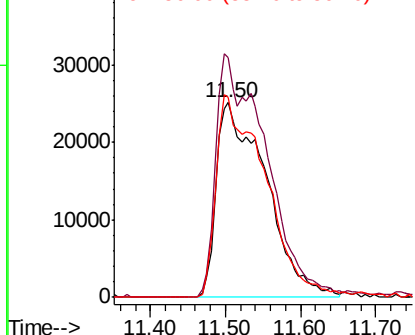


Abundance

Ion 113.00 (112.70 to 113.70): E

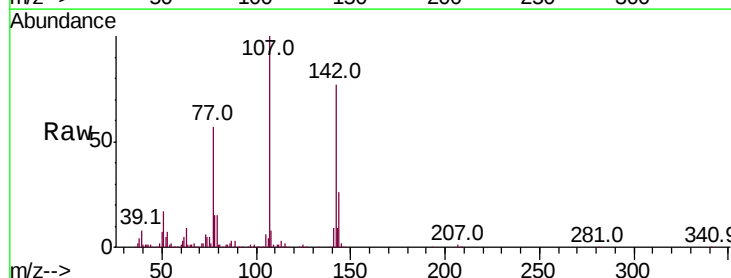
Ion 55.00 (54.70 to 55.70): BM

Ion 56.00 (55.70 to 56.70): BM



#36  
4-Chloro-3-methylphenol  
Concen: 43.531 ng  
RT: 11.81 min Scan# 1483  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 25.6  | 21.9  | 32.9  |
| 142     | 77.4  | 67.9  | 101.9 |

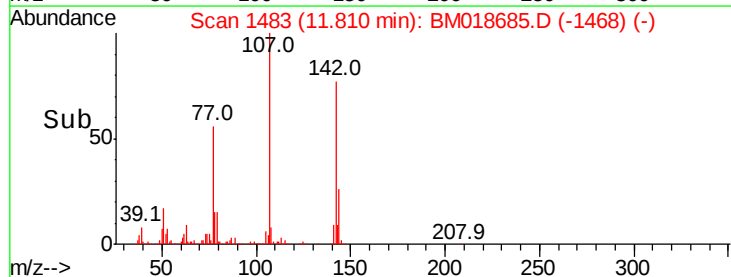
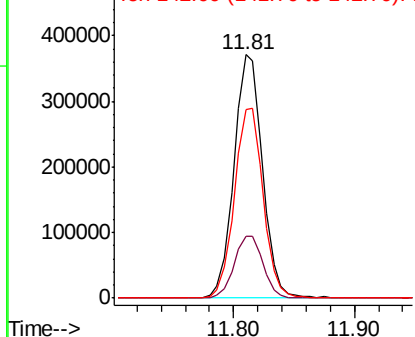


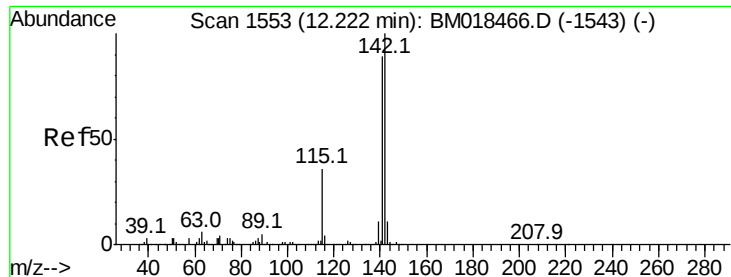
Abundance

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





#37

2-Methylnaphthalene

Concen: 46.657 ng

RT: 12.18 min Scan# 1546

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

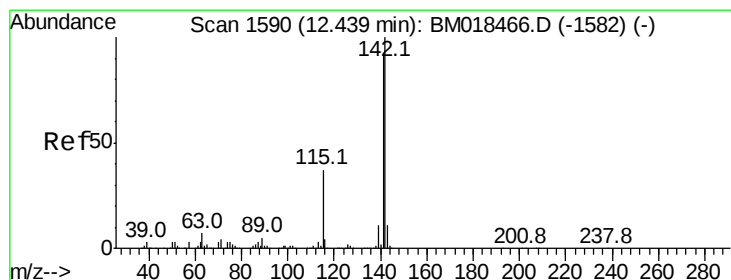
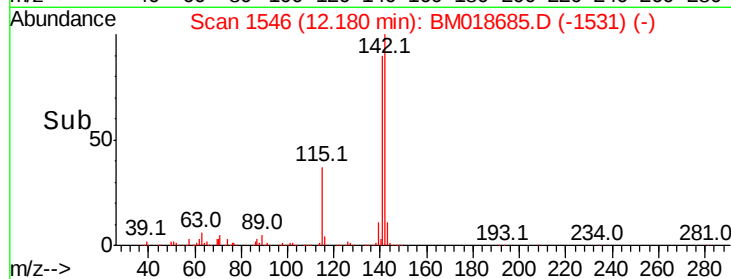
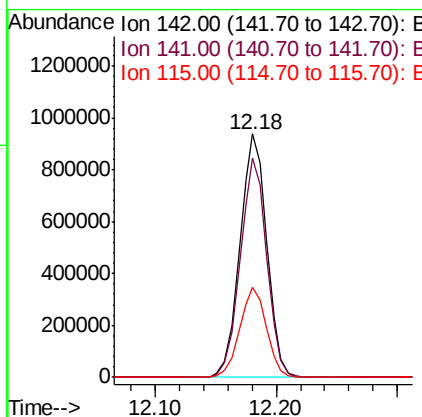
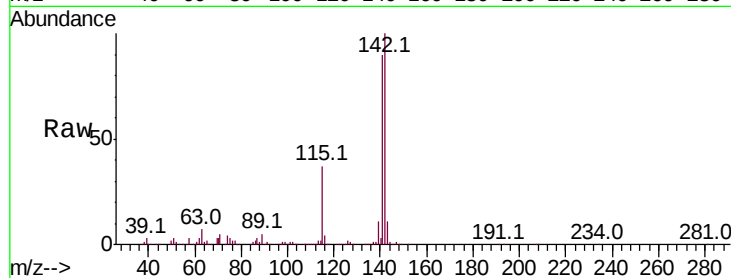
Instrument :  
BNA\_M

ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.3  | 71.4  | 107.2 |
| 115     | 37.1  | 28.0  | 42.0  |

Manual Integrations  
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#38

1-Methylnaphthalene

Concen: 45.243 ng

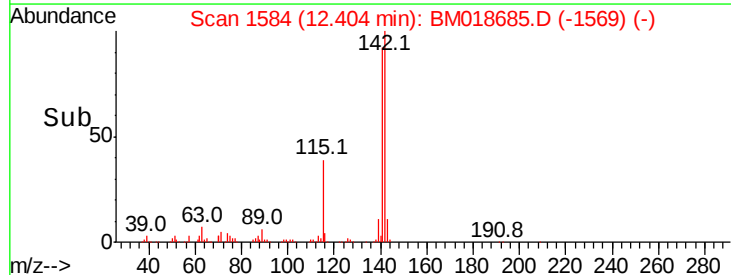
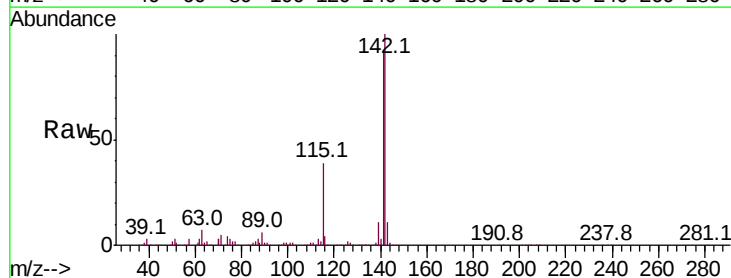
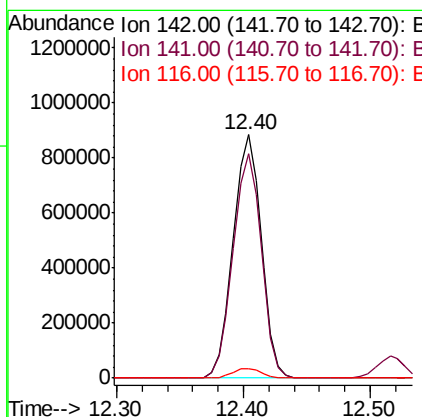
RT: 12.40 min Scan# 1584

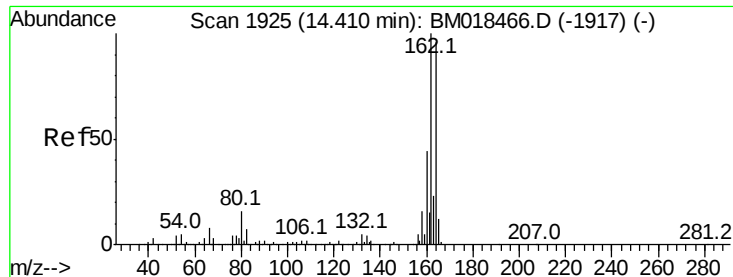
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.3  | 75.6  | 113.4 |
| 116     | 4.0   | 3.0   | 4.6   |





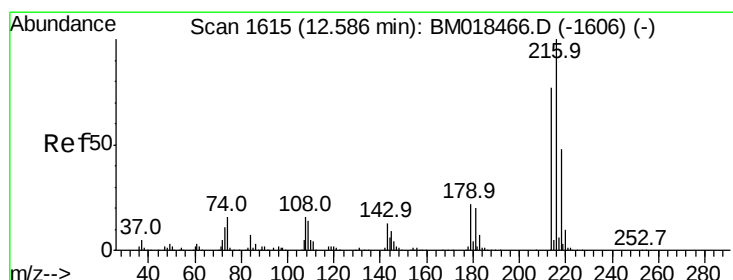
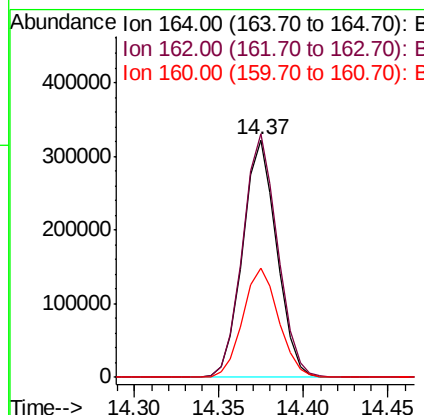
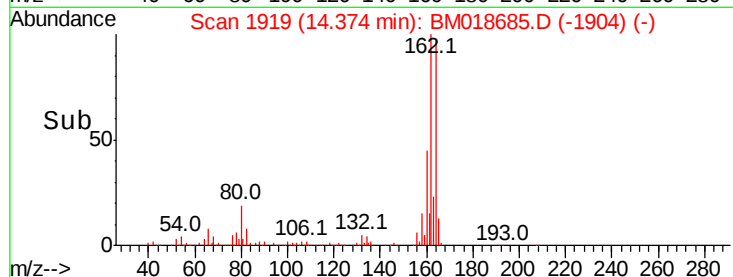
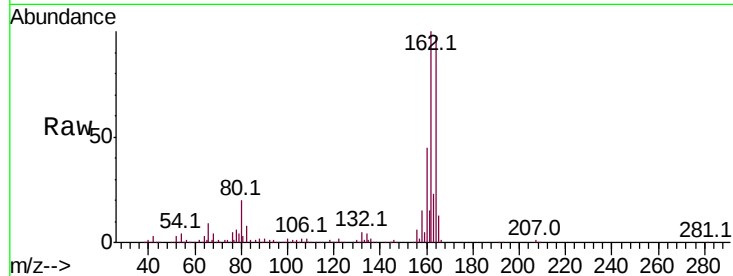
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.37 min Scan# 1919  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.6 | 83.0  | 124.4 |
| 160     | 45.8  | 37.1  | 55.7  |

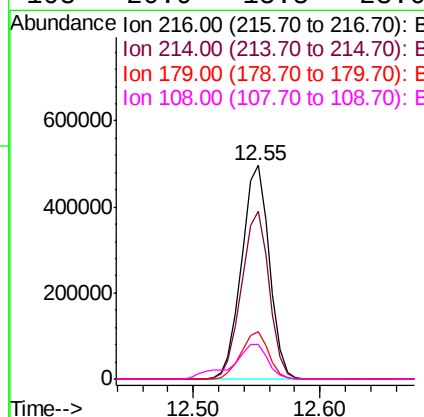
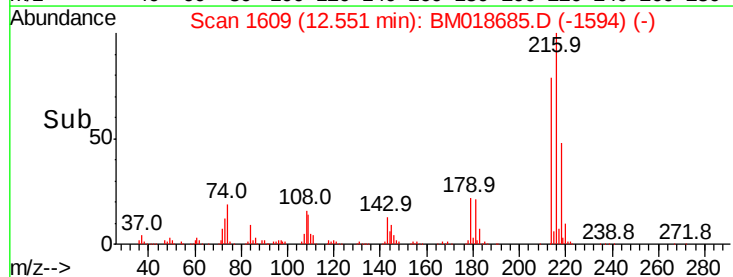
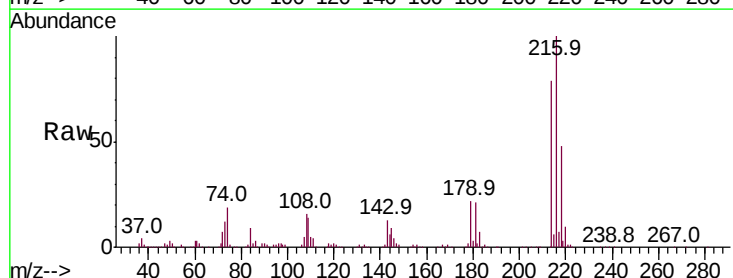
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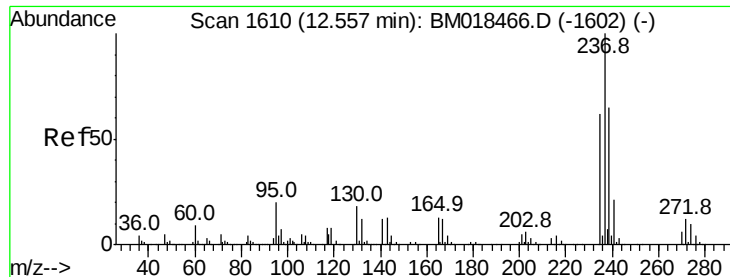
mohammad  
1/30/2019 11:10:39 AM



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 47.427 ng  
RT: 12.55 min Scan# 1609  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 78.3  | 63.4  | 95.0  |
| 179     | 21.9  | 17.9  | 26.9  |
| 108     | 20.9  | 15.8  | 23.6  |





#41

Hexachlorocyclopentadiene

Concen: 112.932 ng

RT: 12.52 min Scan# 1603

Delta R.T. -0.02 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

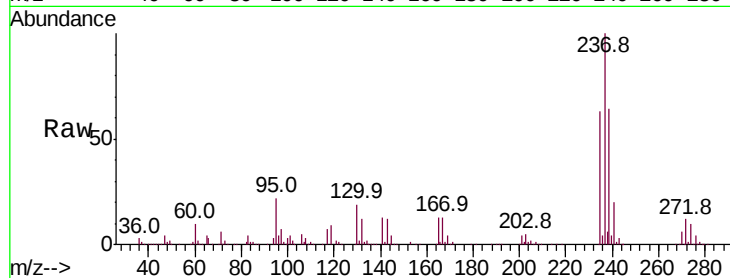
ClientSampleId :

HD-01-012819MS

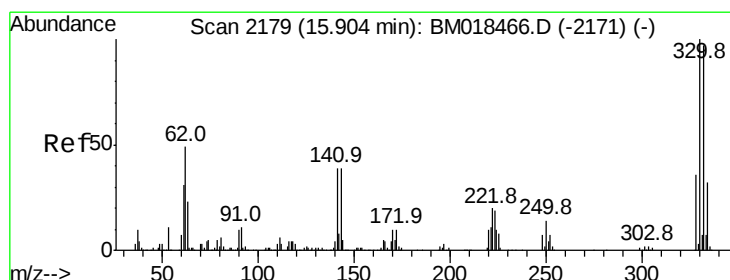
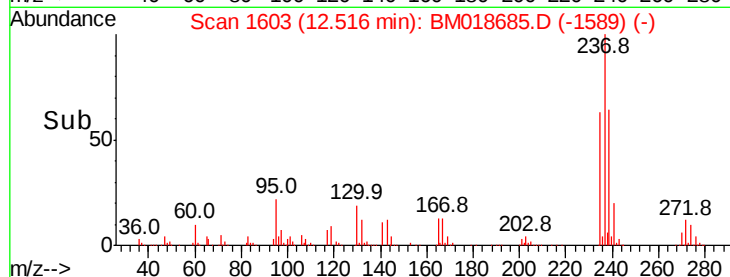
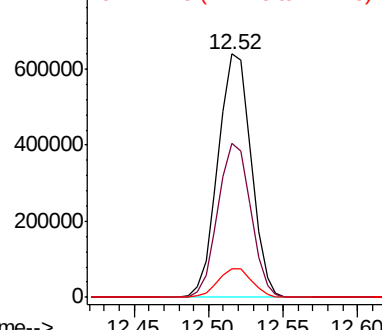
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 237   | Resp: | 981927 |
| Ion Ratio | Lower | Upper |        |
| 237       | 100   |       |        |
| 235       | 63.1  | 42.8  | 82.8   |
| 272       | 11.8  | 0.0   | 31.9   |

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Abundance Ion 236.80 (236.50 to 237.50): E  
Ion 234.90 (234.60 to 235.60): E  
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 132.846 ng

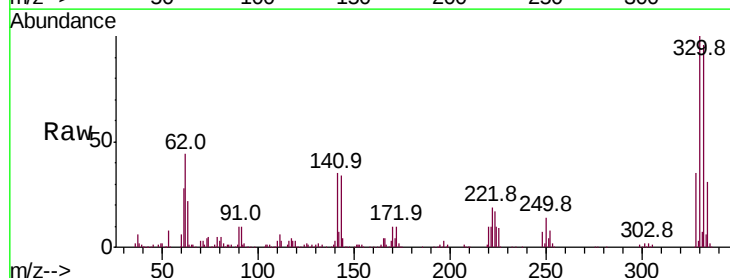
RT: 15.87 min Scan# 2174

Delta R.T. -0.01 min

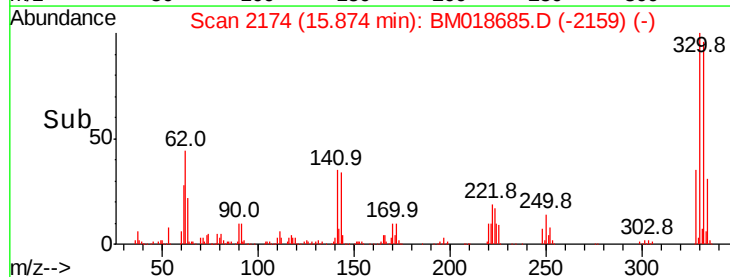
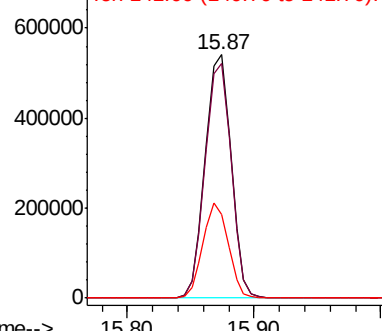
Lab File: BM018685.D

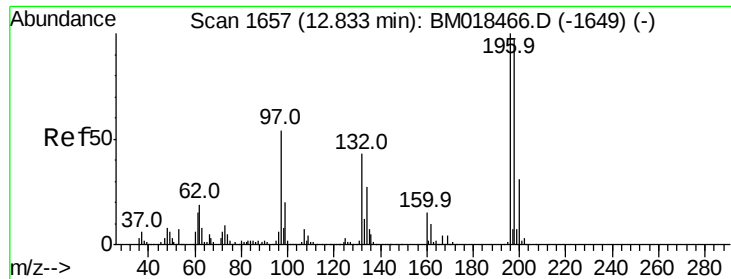
Acq: 29 Jan 2019 19:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 766316 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 96.9  | 77.6  | 116.4  |
| 141       | 38.2  | 31.7  | 47.5   |



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





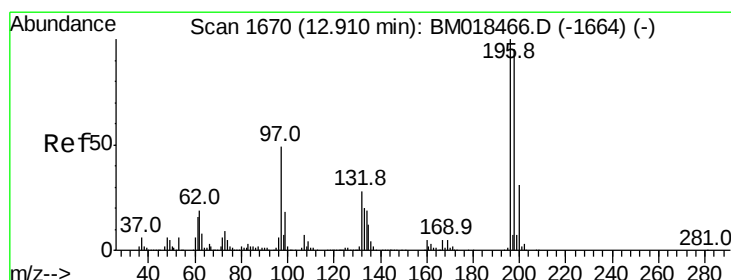
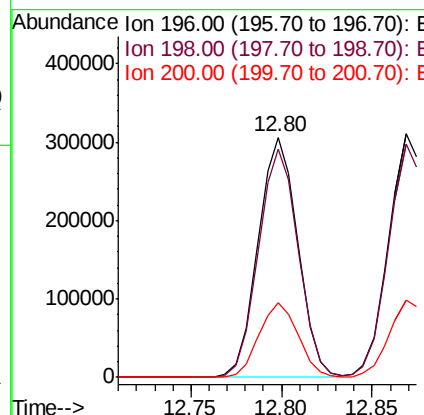
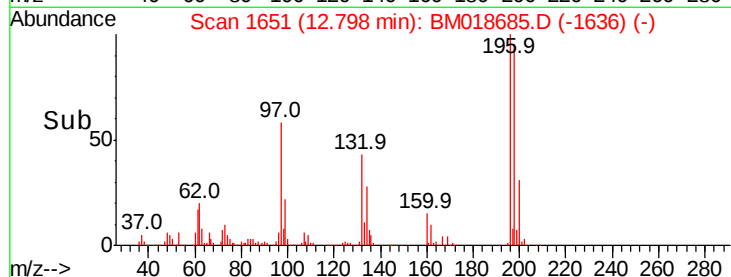
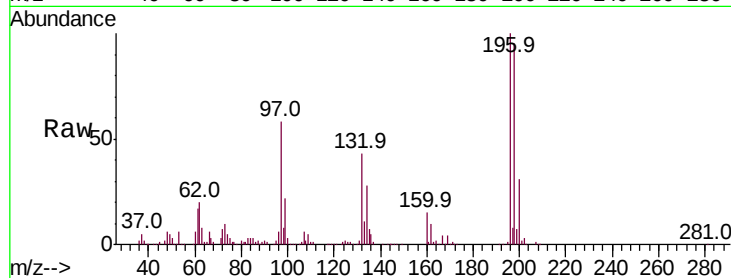
#43  
 2,4,6-Trichlorophenol  
 Concen: 48.336 ng  
 RT: 12.80 min Scan# 1651  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HD-01-012819MS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 465022 |       |       |
| 198     | 94.8  | 76.6   | 115.0 |       |
| 200     | 31.3  | 24.2   | 36.4  |       |

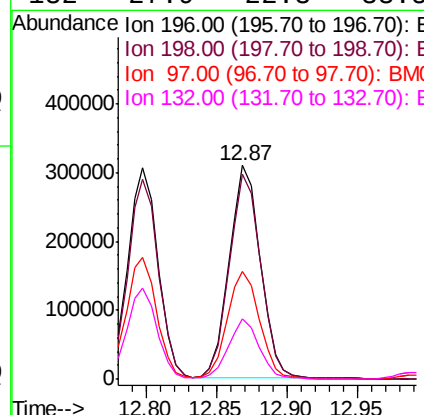
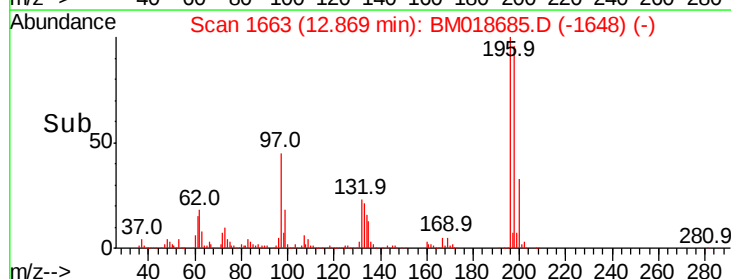
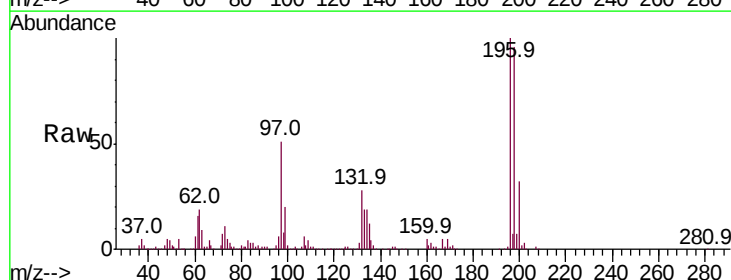
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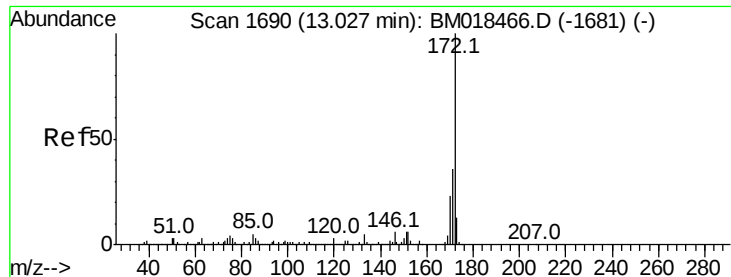
mohammad  
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#44  
 2,4,5-Trichlorophenol  
 Concen: 47.247 ng  
 RT: 12.87 min Scan# 1663  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 478045 |       |       |
| 198     | 95.6  | 76.7   | 115.1 |       |
| 97      | 50.5  | 39.2   | 58.8  |       |
| 132     | 27.9  | 22.3   | 33.5  |       |





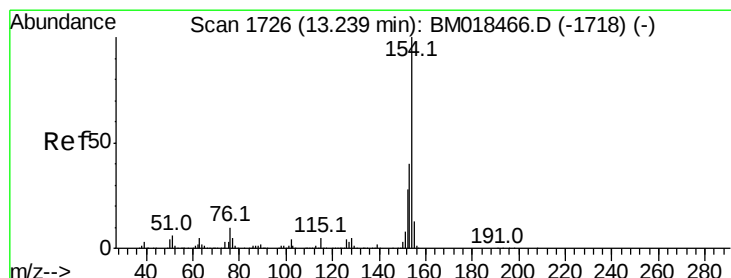
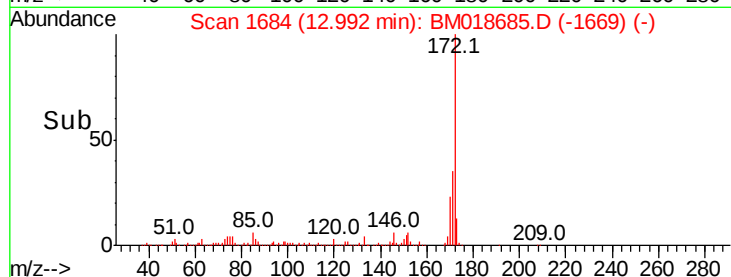
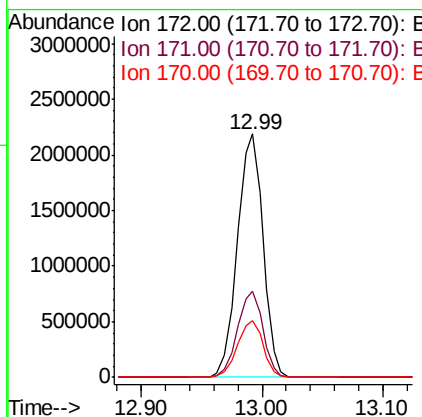
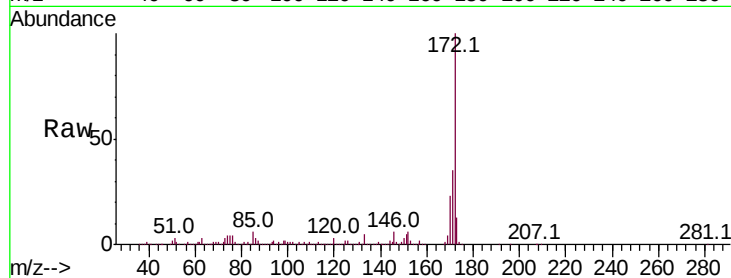
#45  
2-Fluorobiphenyl  
Concen: 93.370 ng  
RT: 12.99 min Scan# 1684  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.2  | 28.2  | 42.4  |
| 170     | 23.4  | 18.9  | 28.3  |

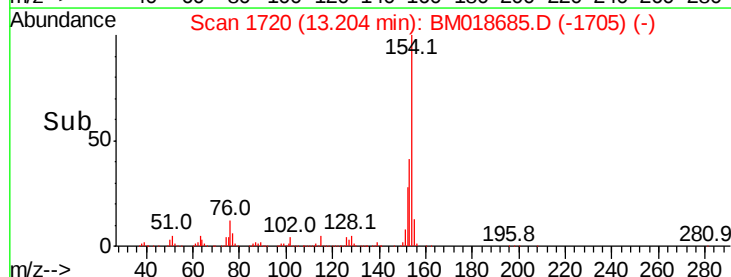
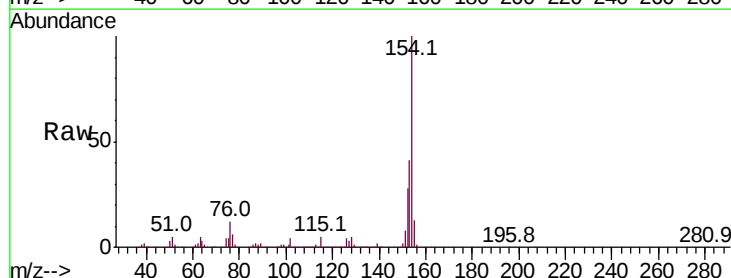
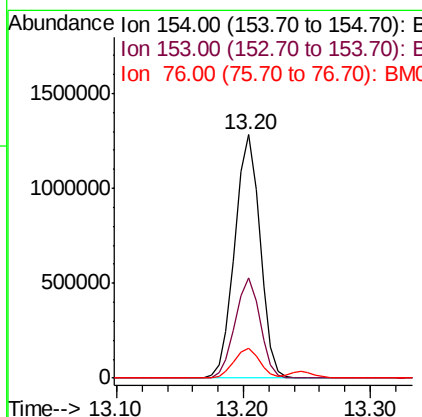
Manual Integrations  
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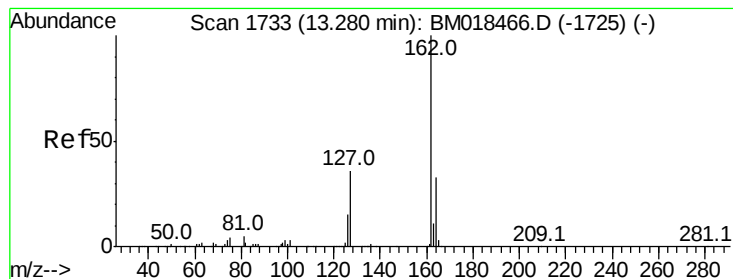
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#46  
1,1'-Biphenyl  
Concen: 44.766 ng  
RT: 13.20 min Scan# 1720  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 41.1  | 20.5  | 60.5  |
| 76      | 12.1  | 0.0   | 31.9  |





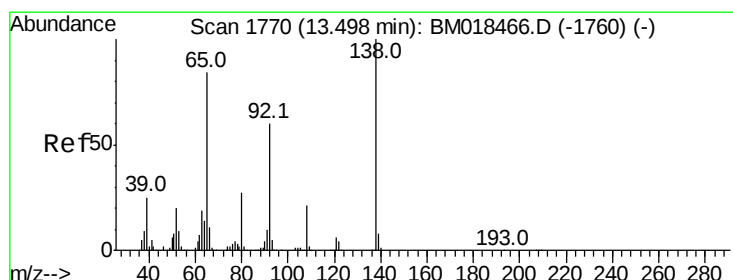
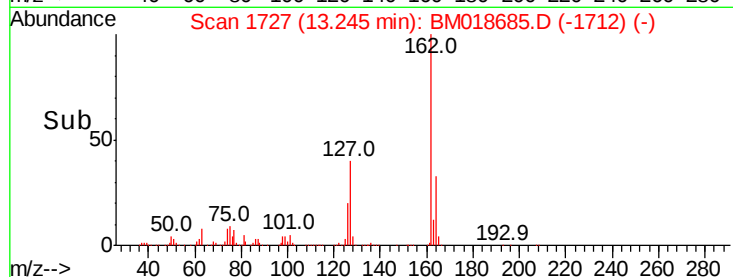
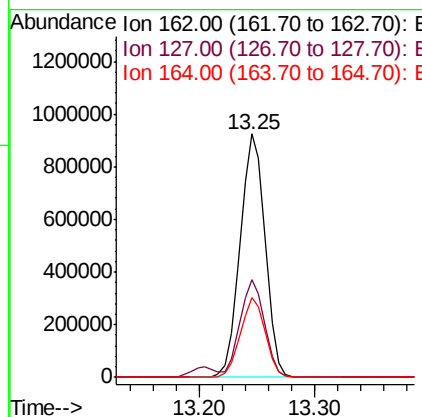
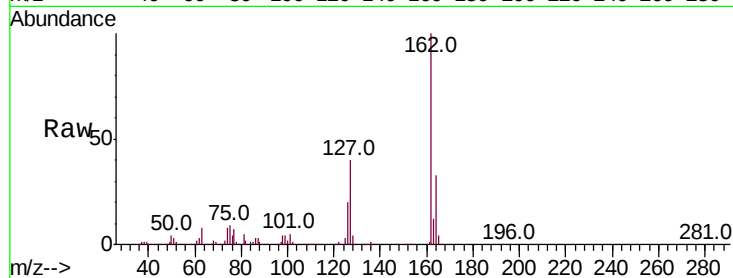
#47  
2-Chloronaphthalene  
Concen: 44.943 ng  
RT: 13.25 min Scan# 1727  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 40.3  | 31.4  | 47.0  |
| 164     | 32.7  | 26.2  | 39.4  |

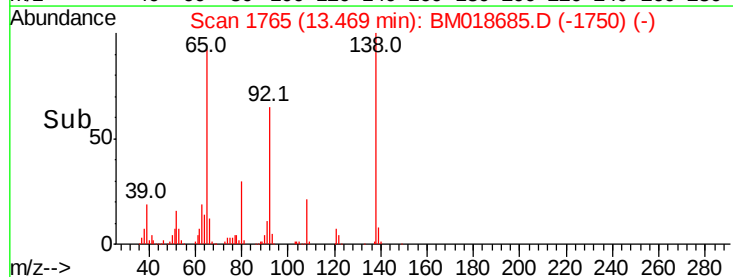
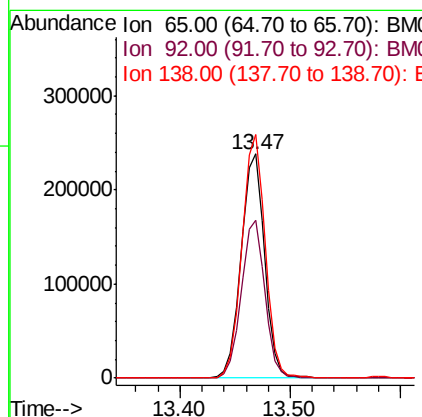
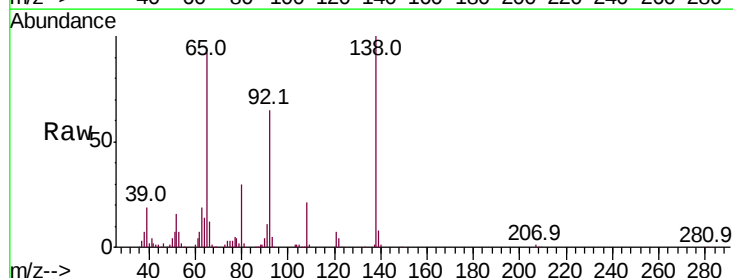
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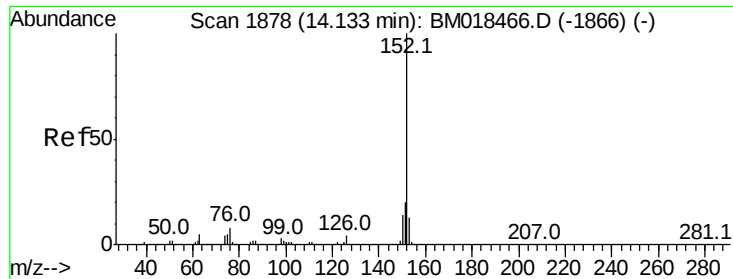
mohammad  
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#48  
2-Nitroaniline  
Concen: 47.145 ng  
RT: 13.47 min Scan# 1765  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 70.2  | 53.4  | 80.2  |
| 138     | 108.5 | 88.9  | 133.3 |





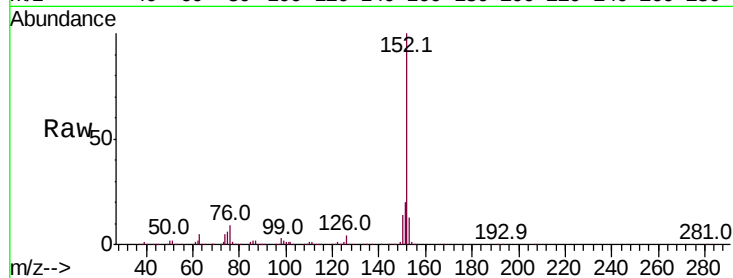
#49  
Acenaphthylene  
Concen: 47.426 ng  
RT: 14.10 min Scan# 1872  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 15.7  | 23.5  |
| 153     | 13.1  | 10.5  | 15.7  |

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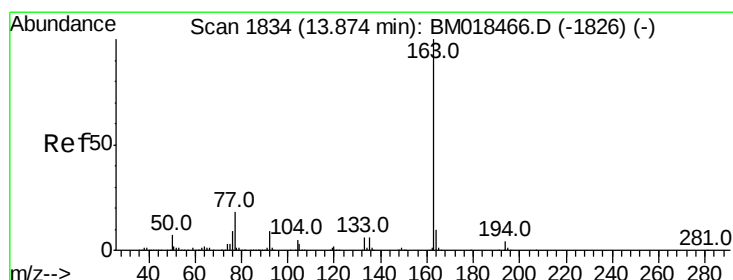
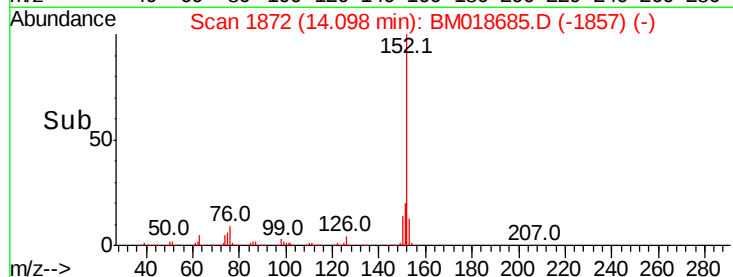
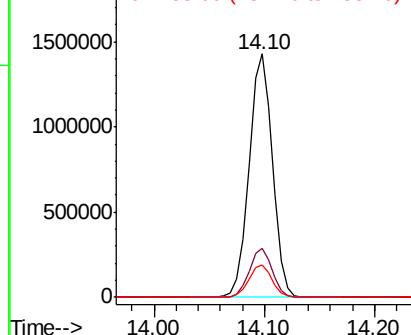


Abundance

Ion 152.00 (151.70 to 152.70): E

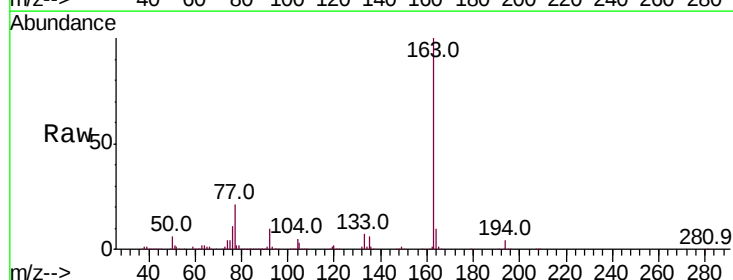
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50  
Dimethylphthalate  
Concen: 43.010 ng  
RT: 13.84 min Scan# 1828  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 3.0   | 4.6   |
| 164     | 10.0  | 7.8   | 11.8  |

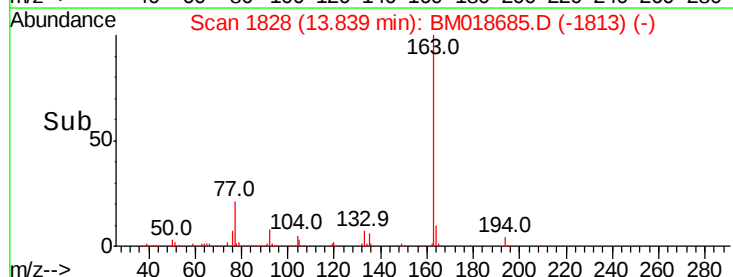
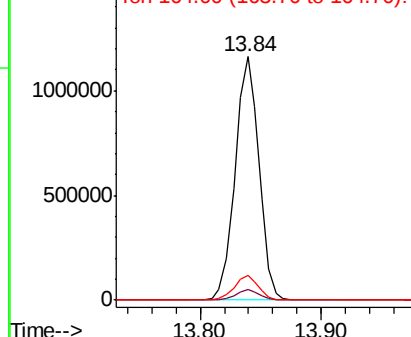


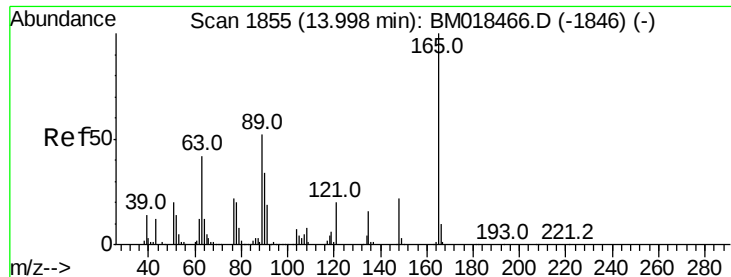
Abundance

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





#51

2,6-Dinitrotoluene

Concen: 44.119 ng

RT: 13.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

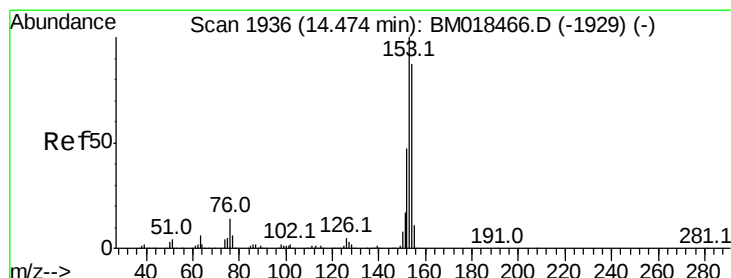
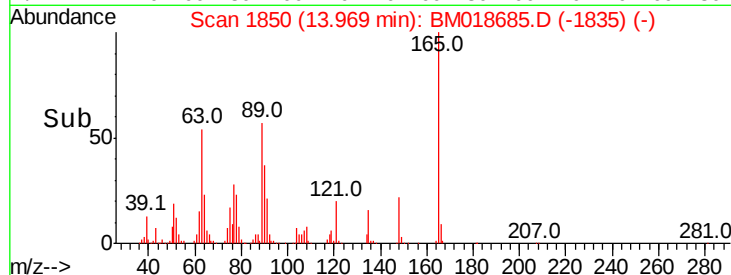
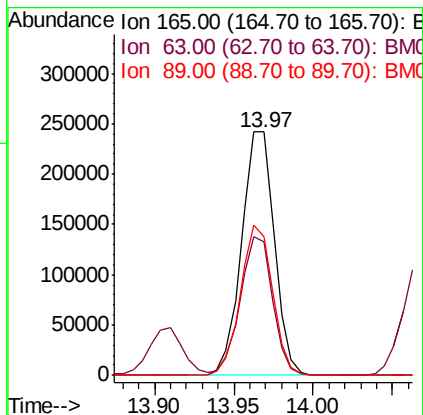
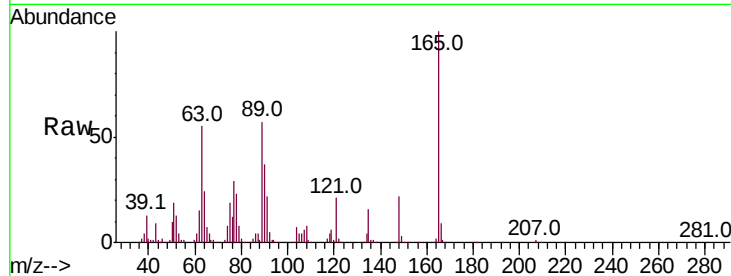
ClientSampleId :

HD-01-012819MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 165   | Resp: | 347716 |
| Ion Ratio | Lower | Upper |        |
| 165       | 100   |       |        |
| 63        | 55.1  | 45.6  | 68.4   |
| 89        | 57.2  | 44.6  | 66.8   |

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#52

Acenaphthene

Concen: 45.139 ng

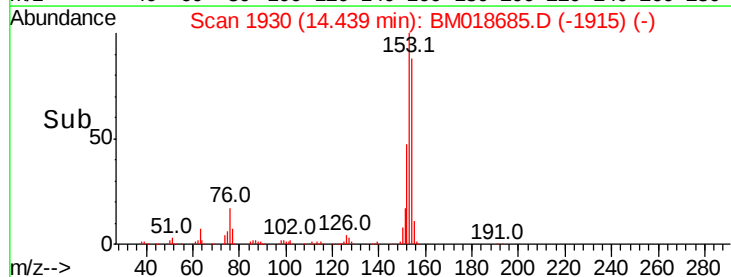
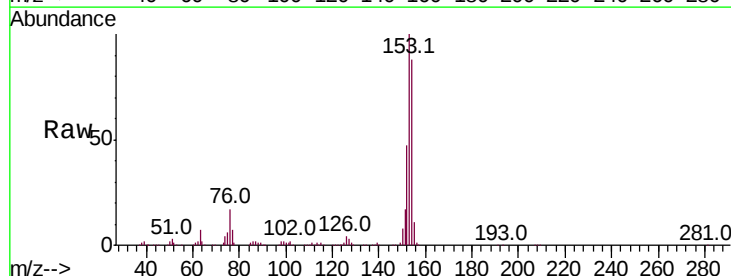
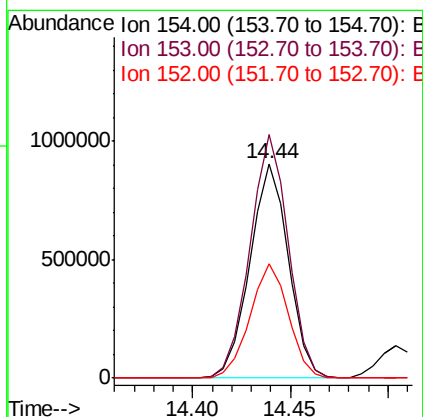
RT: 14.44 min Scan# 1930

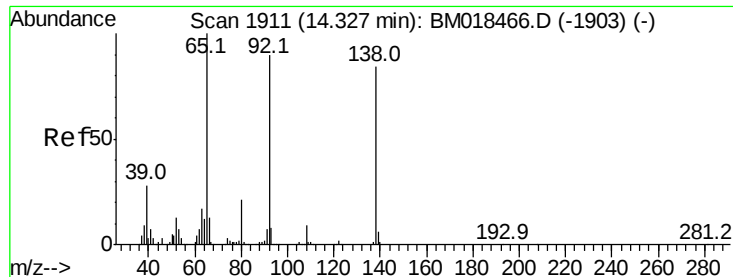
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 154   | Resp: | 1234641 |
| Ion Ratio | Lower | Upper |         |
| 154       | 100   |       |         |
| 153       | 113.5 | 92.3  | 138.5   |
| 152       | 53.4  | 43.8  | 65.6    |





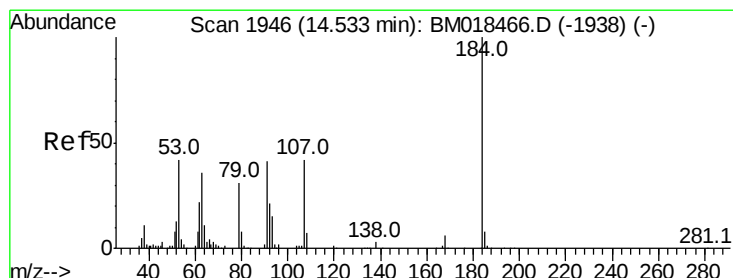
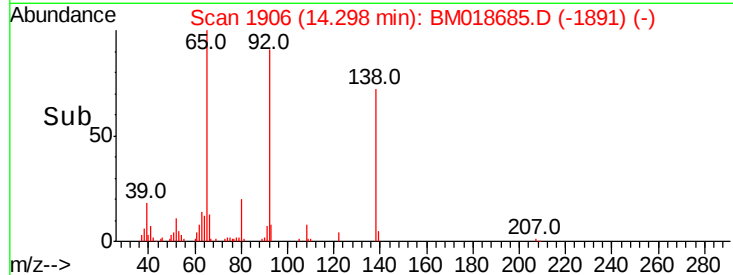
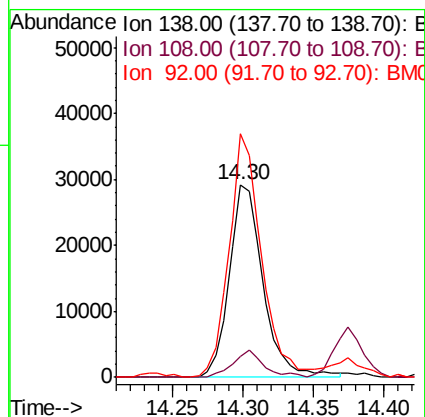
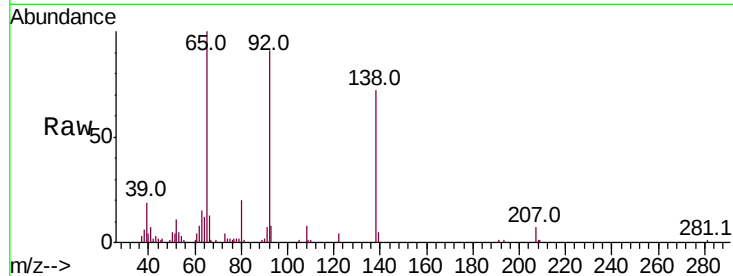
#53  
3-Nitroaniline  
Concen: 6.149 ng  
RT: 14.30 min Scan# 1906  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 11.0  | 9.1   | 13.7  |
| 92      | 126.5 | 88.2  | 132.2 |

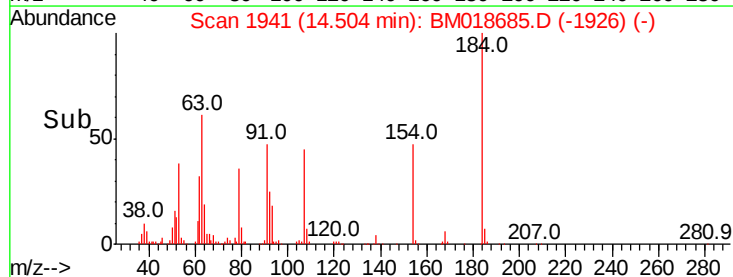
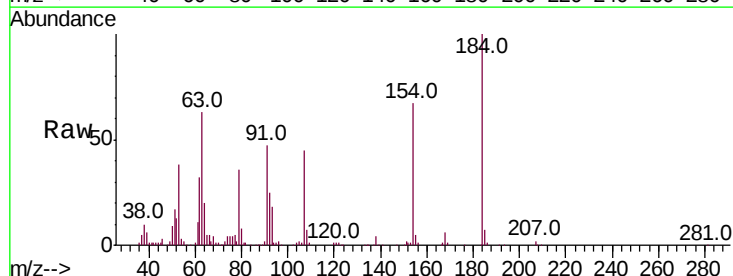
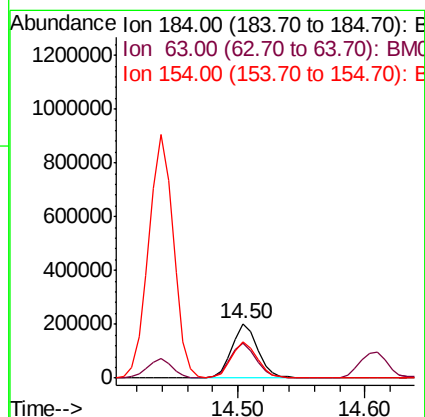
Manual Integrations  
APPROVED

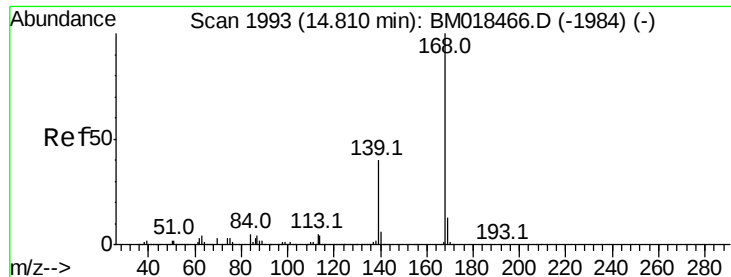
mohammad  
1/30/2019 11:10:39 AM



#54  
2,4-Dinitrophenol  
Concen: 68.624 ng  
RT: 14.50 min Scan# 1941  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 63      | 63.4  | 55.9  | 83.9  |
| 154     | 66.6  | 54.2  | 81.4  |





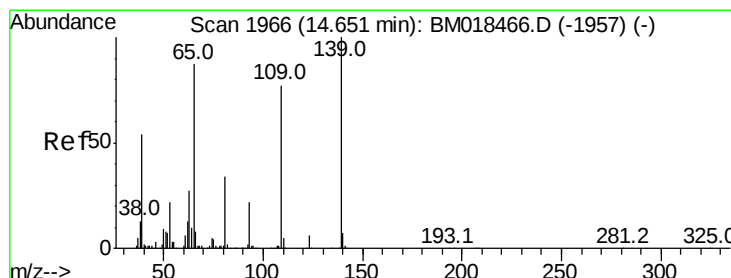
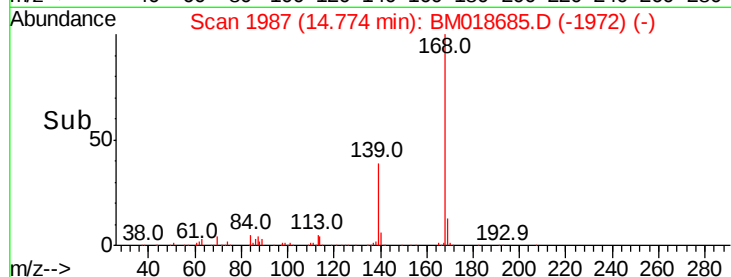
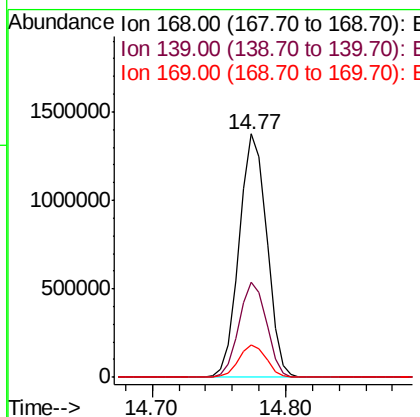
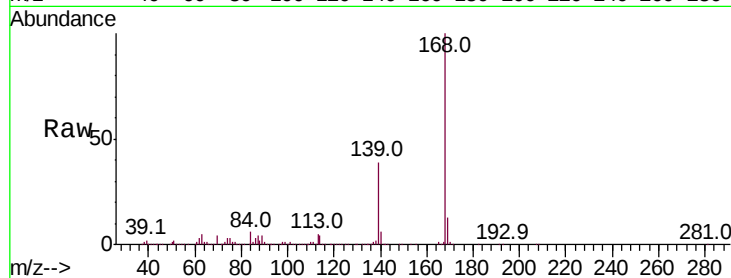
#55  
Dibenzofuran  
Concen: 43.583 ng  
RT: 14.77 min Scan# 1987  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 39.3  | 30.3  | 45.5  |
| 169     | 13.4  | 10.6  | 16.0  |

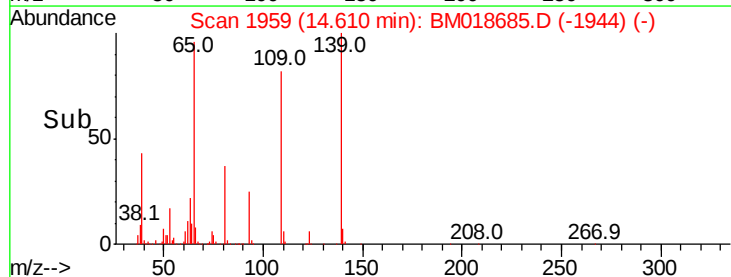
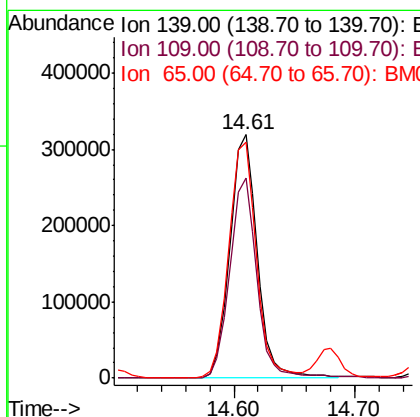
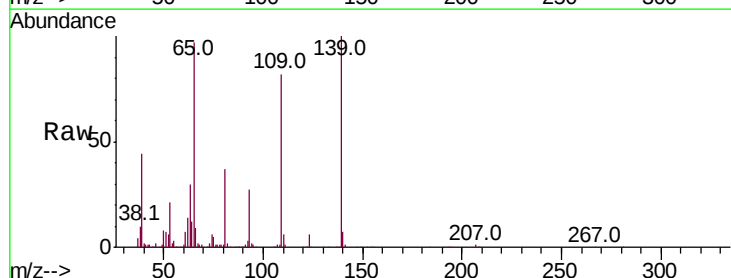
Manual Integrations  
APPROVED

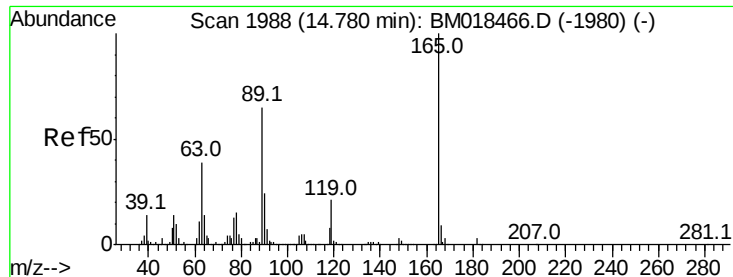
mohammad  
1/30/2019 11:10:39 AM



#56  
4-Nitrophenol  
Concen: 73.564 ng  
RT: 14.61 min Scan# 1959  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 82.4  | 51.7  | 91.7  |
| 65      | 96.9  | 71.4  | 111.4 |





#57

2,4-Dinitrotoluene

Concen: 42.205 ng

RT: 14.75 min Scan# 1983

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

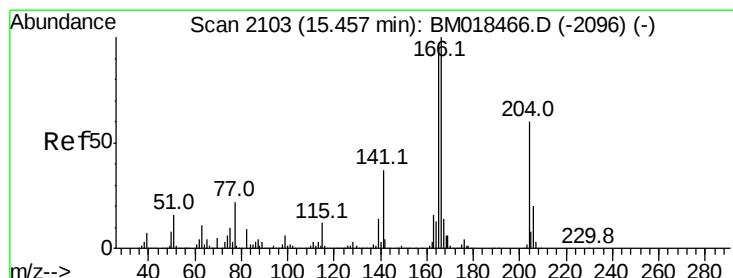
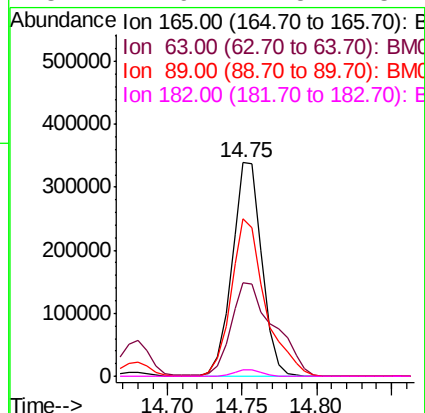
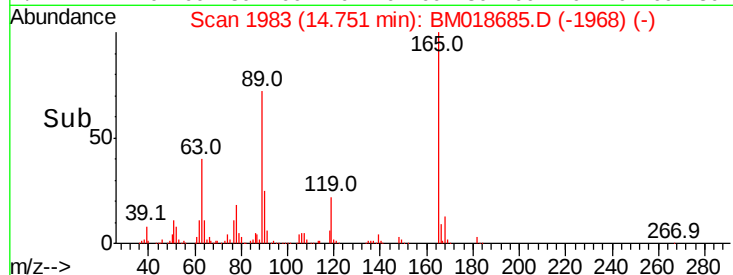
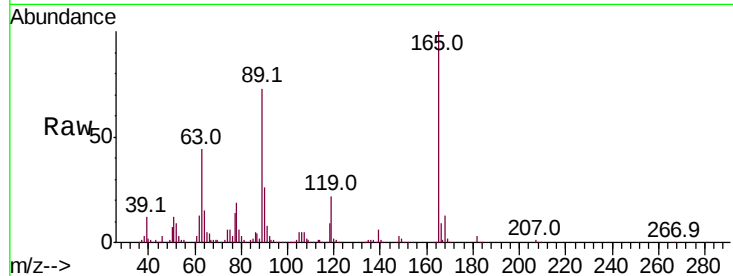
ClientSampleId :

HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 43.7  | 32.2  | 48.2  |
| 89      | 73.4  | 52.1  | 78.1  |
| 182     | 2.9   | 2.5   | 3.7   |

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#58

Fluorene

Concen: 46.141 ng

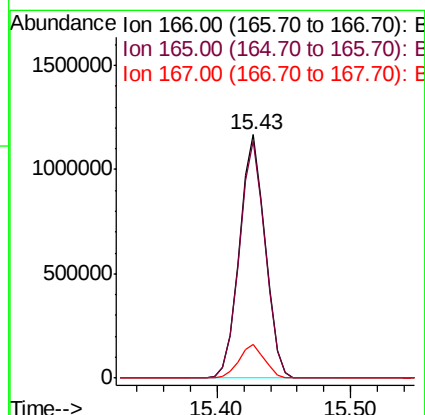
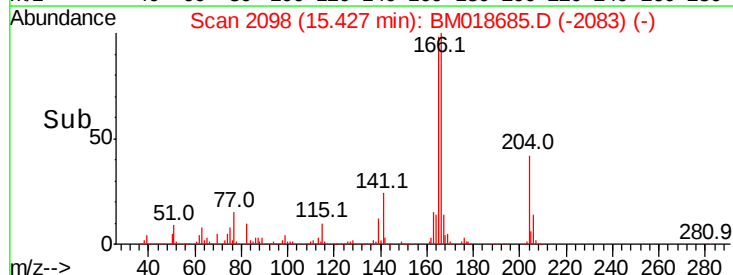
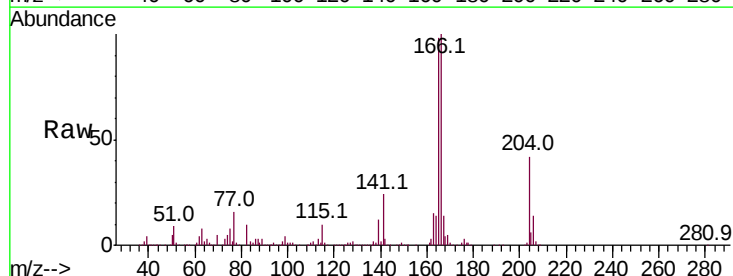
RT: 15.43 min Scan# 2098

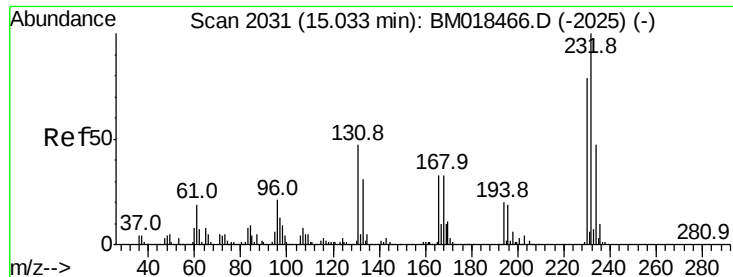
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.7  | 78.3  | 117.5 |
| 167     | 13.6  | 10.9  | 16.3  |





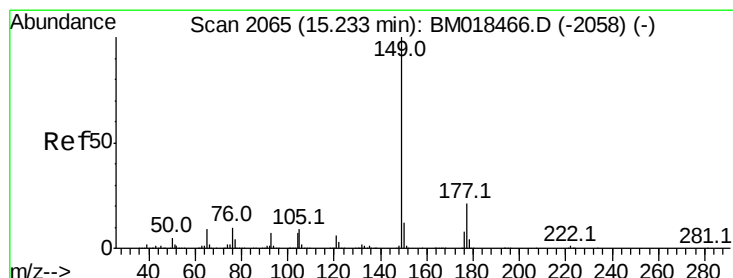
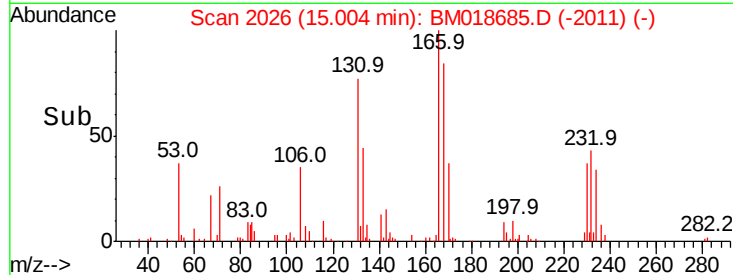
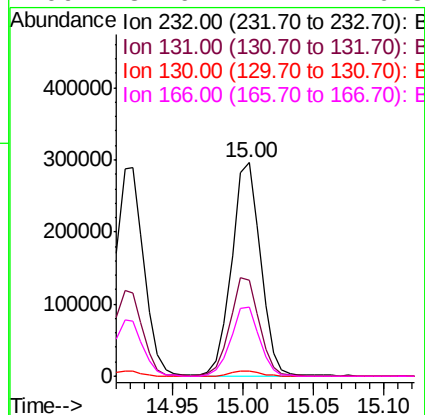
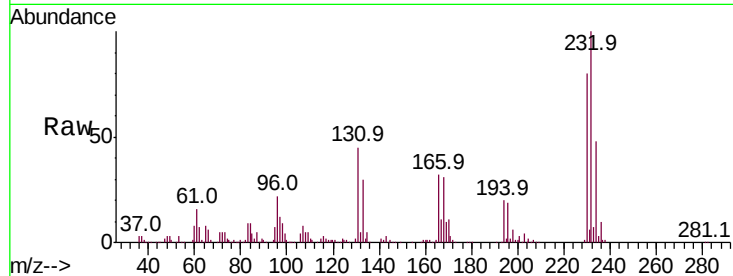
#59  
2,3,4,6-Tetrachlorophenol  
Concen: 46.834 ng  
RT: 15.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 46.4  | 38.6  | 57.8  |
| 130     | 2.6   | 2.2   | 3.4   |
| 166     | 32.6  | 27.2  | 40.8  |

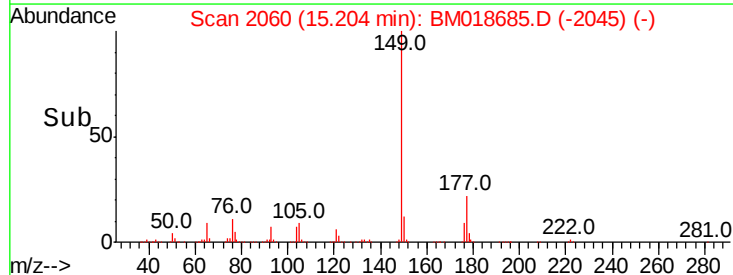
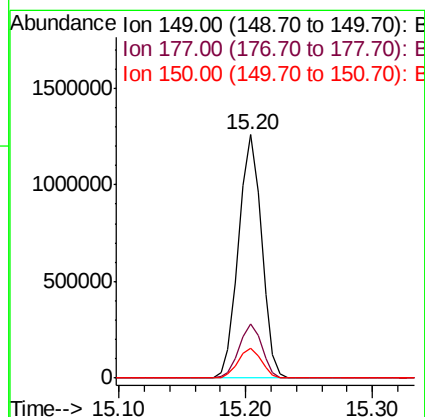
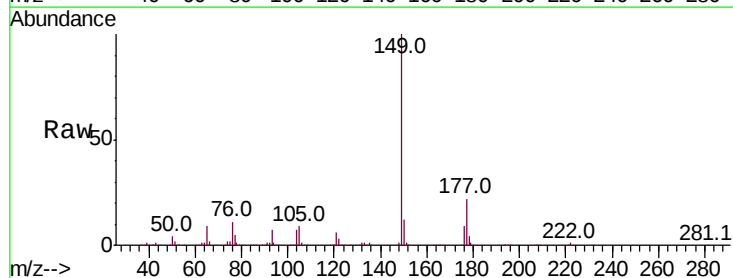
Manual Integrations  
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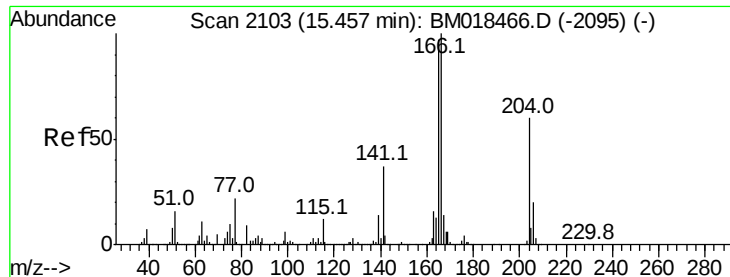
mohammad  
1/30/2019 11:10:39 AM



#60  
Diethylphthalate  
Concen: 42.069 ng  
RT: 15.20 min Scan# 2060  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 22.3  | 17.1  | 25.7  |
| 150     | 12.4  | 9.8   | 14.6  |





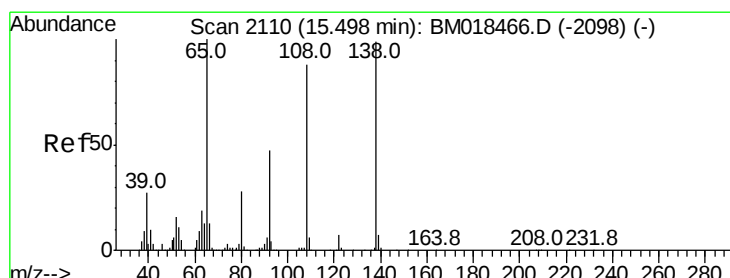
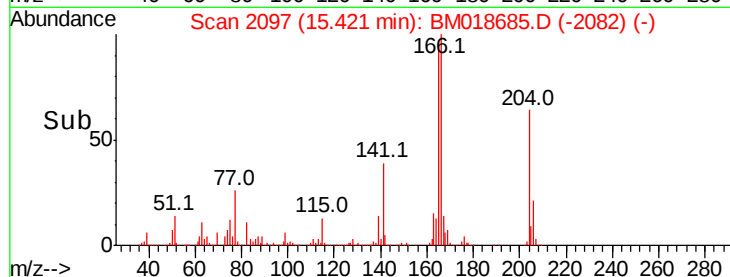
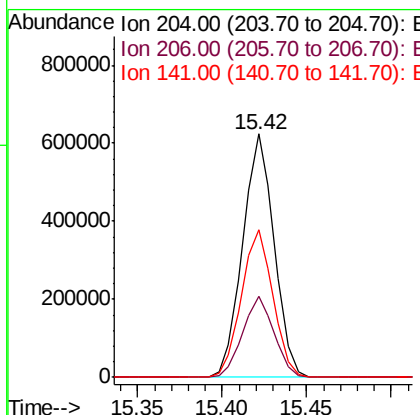
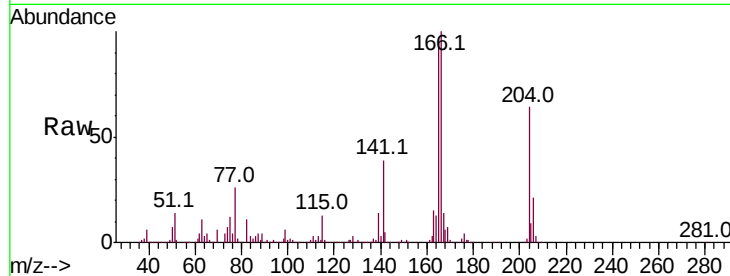
#61  
4-Chlorophenyl-phenylether  
Concen: 41.716 ng  
RT: 15.42 min Scan# 2097  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 33.2  | 25.8  | 38.6  |
| 141     | 60.7  | 49.5  | 74.3  |

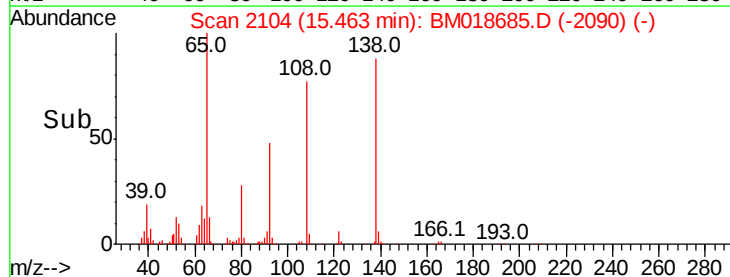
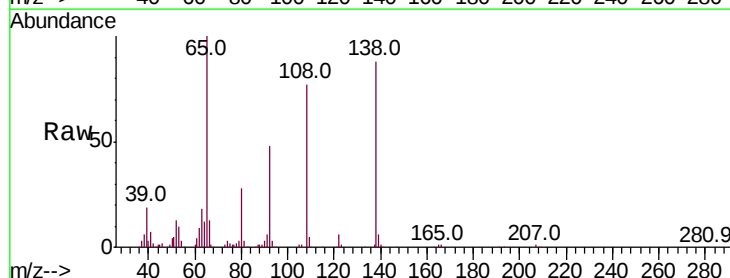
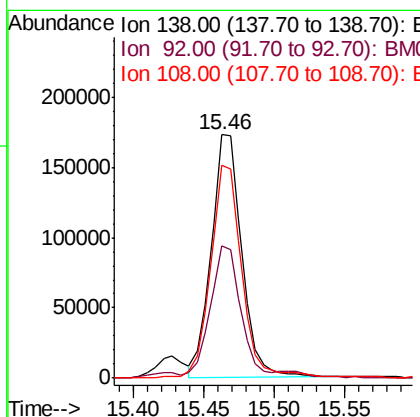
Manual Integrations  
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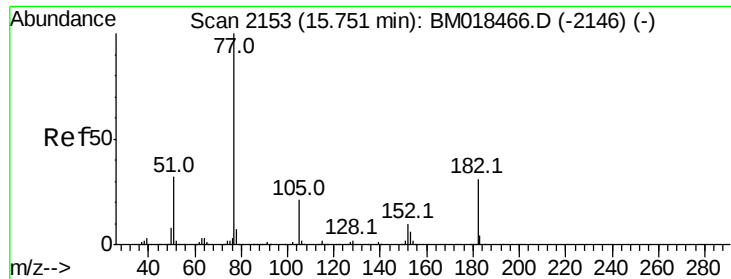
mohammad  
1/30/2019 11:10:39 AM



#62  
4-Nitroaniline  
Concen: 29.771 ng  
RT: 15.46 min Scan# 2104  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 54.4  | 29.0  | 69.0  |
| 108     | 87.2  | 63.9  | 103.9 |





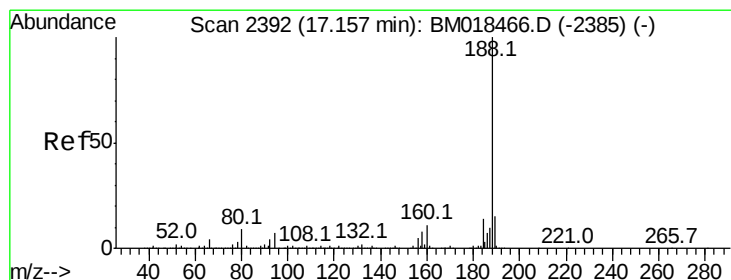
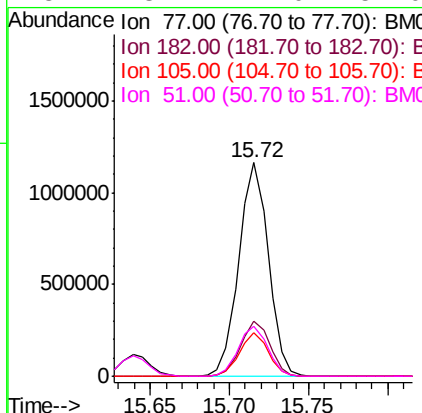
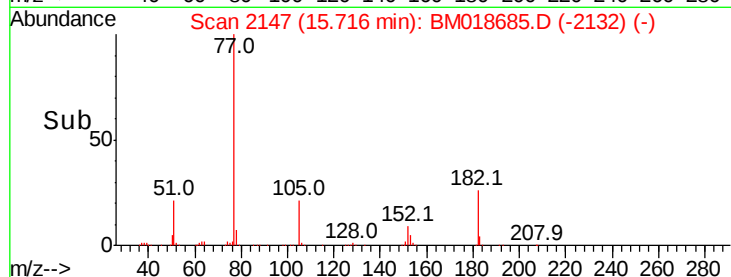
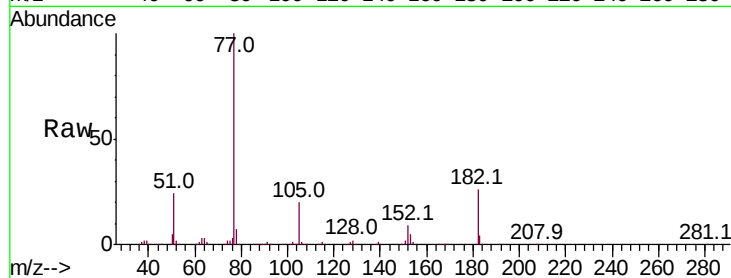
#63  
Azobenzene  
Concen: 49.074 ng  
RT: 15.72 min Scan# 2147  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

Tot Ion: 77 Resp: 1502833  
Ion Ratio Lower Upper  
77 100  
182 25.6 7.4 47.4  
105 20.1 0.0 39.6  
51 23.7 12.0 52.0

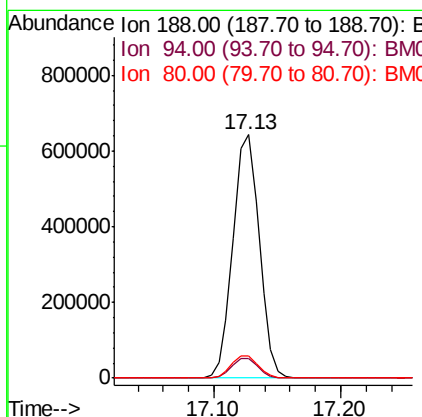
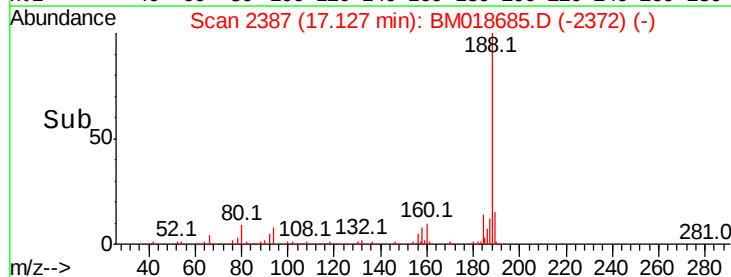
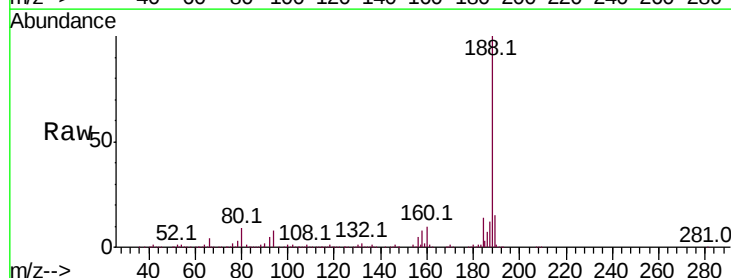
Manual Integrations  
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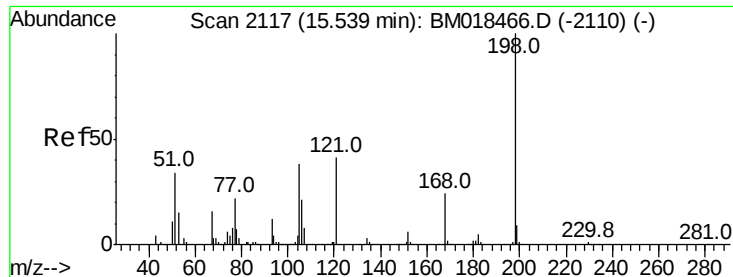
mohammad  
1/30/2019 11:10:39 AM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.13 min Scan# 2387  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Tgt Ion: 188 Resp: 925379  
Ion Ratio Lower Upper  
188 100  
94 7.9 7.1 10.7  
80 9.3 7.6 11.4





#65

4,6-Dinitro-2-methylphenol

Concen: 38.256 ng

RT: 15.52 min Scan# 2113

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

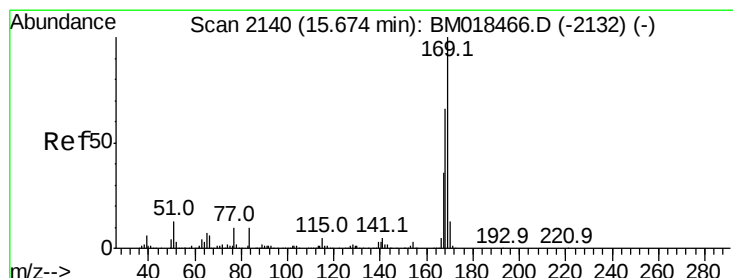
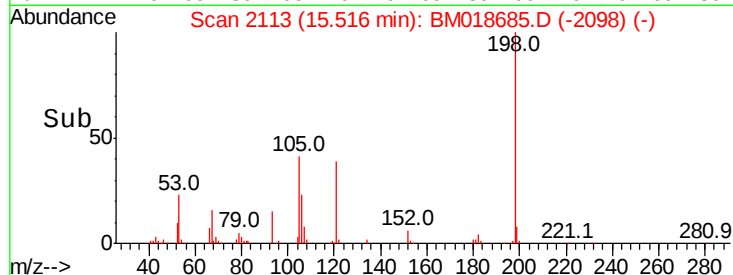
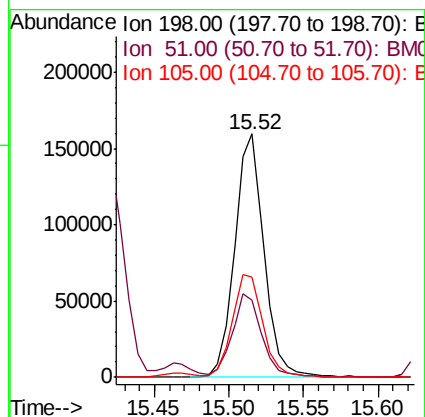
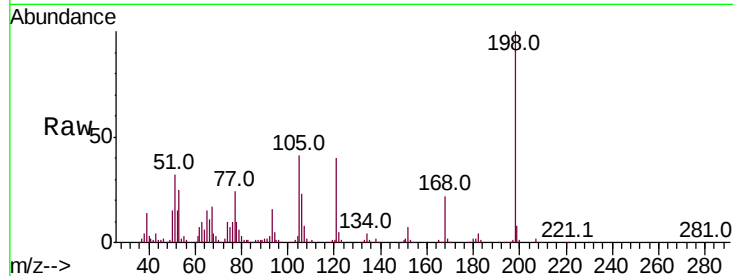
ClientSampleId :

HD-01-012819MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 198   | Resp: | 218369 |
| Ion Ratio | Lower | Upper |        |
| 198       | 100   |       |        |
| 51        | 31.9  | 29.6  | 69.6   |
| 105       | 41.4  | 25.5  | 65.5   |

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#66

n-Nitrosodiphenylamine

Concen: 46.039 ng

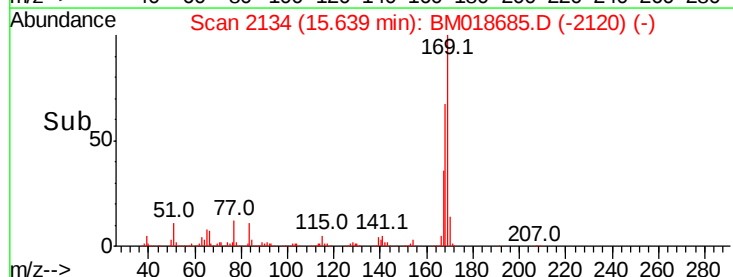
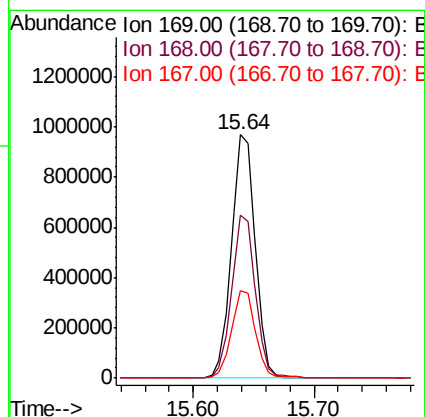
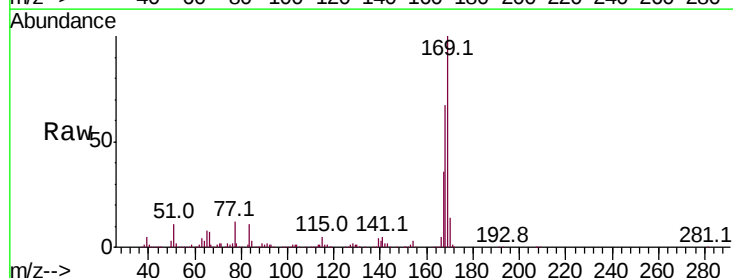
RT: 15.64 min Scan# 2134

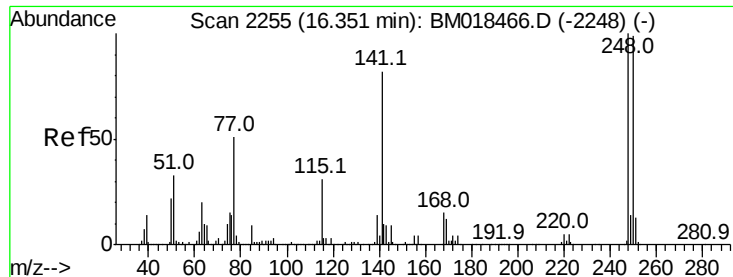
Delta R.T. -0.02 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 169   | Resp: | 1321544 |
| Ion Ratio | Lower | Upper |         |
| 169       | 100   |       |         |
| 168       | 66.9  | 54.1  | 81.1    |
| 167       | 35.7  | 28.6  | 42.8    |





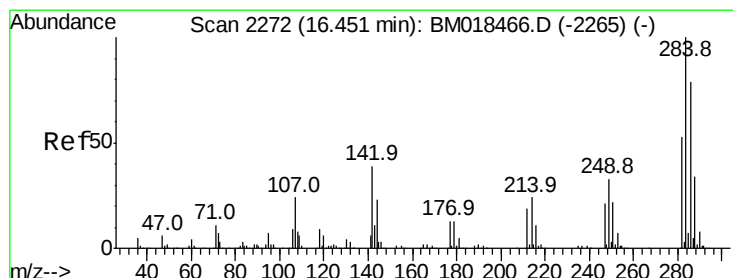
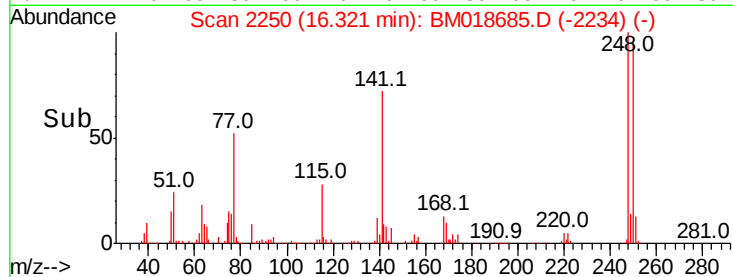
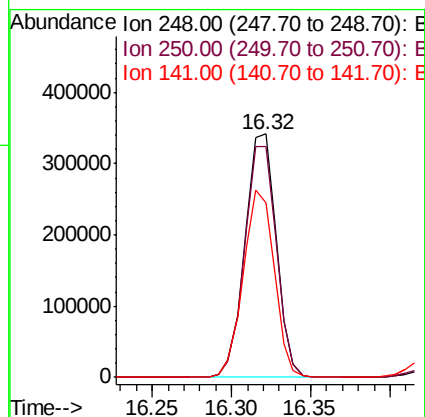
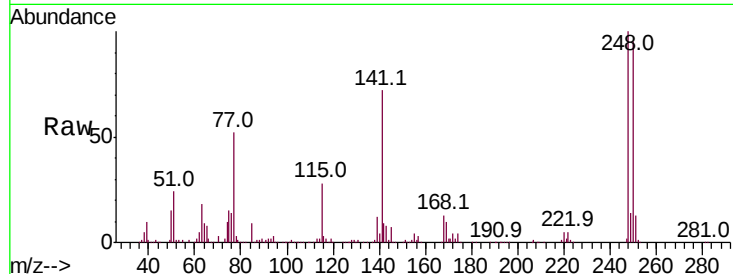
#67  
4-Bromophenyl-phenylether  
Concen: 45.338 ng  
RT: 16.32 min Scan# 2250  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 95.0  | 76.0  | 114.0 |
| 141     | 71.8  | 61.5  | 92.3  |

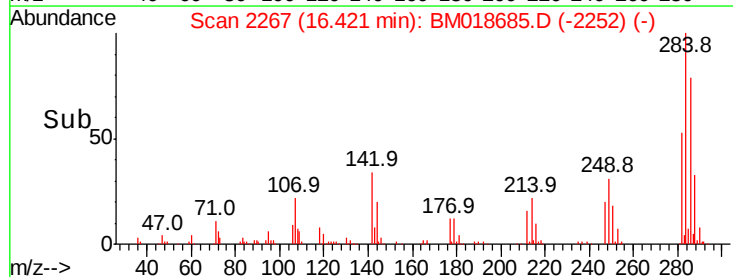
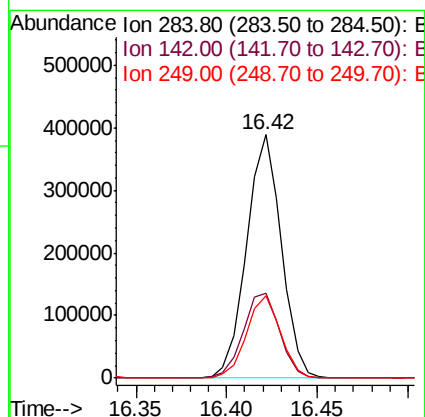
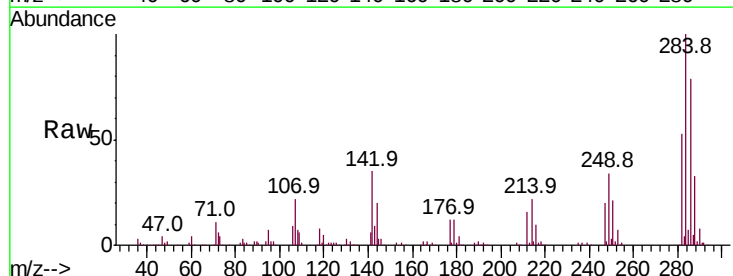
Manual Integrations  
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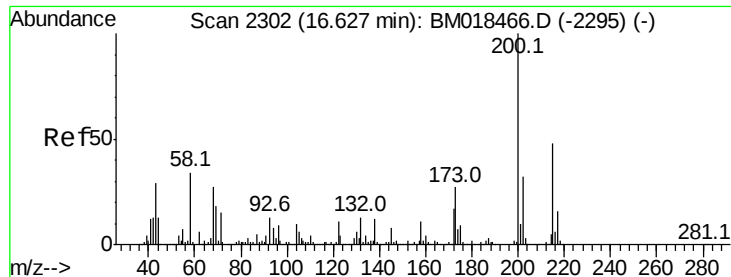
mohammad  
1/30/2019 11:10:39 AM



#68  
Hexachlorobenzene  
Concen: 44.560 ng  
RT: 16.42 min Scan# 2267  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.0  | 29.2  | 43.8  |
| 249     | 33.6  | 26.1  | 39.1  |





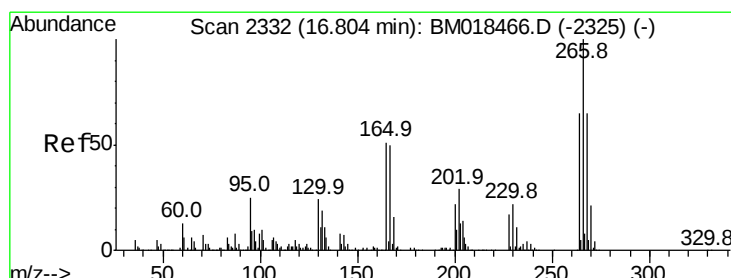
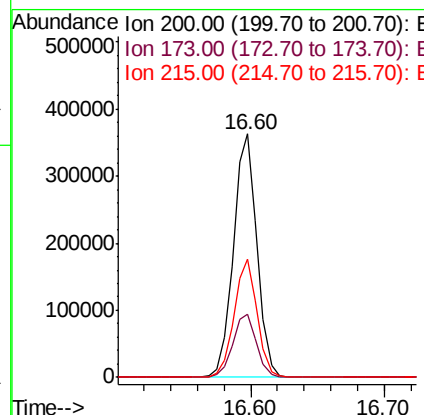
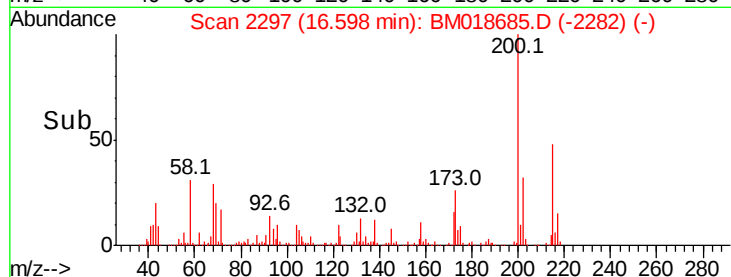
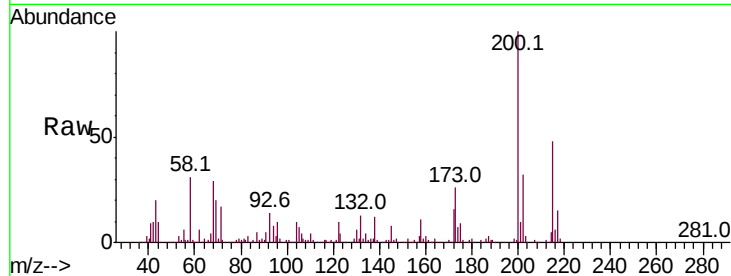
#69  
Atrazine  
Concen: 43.130 ng  
RT: 16.60 min Scan# 2297  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 25.8  | 7.2   | 47.2  |
| 215     | 48.3  | 28.3  | 68.3  |

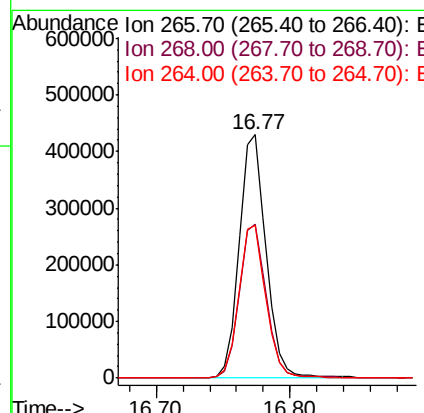
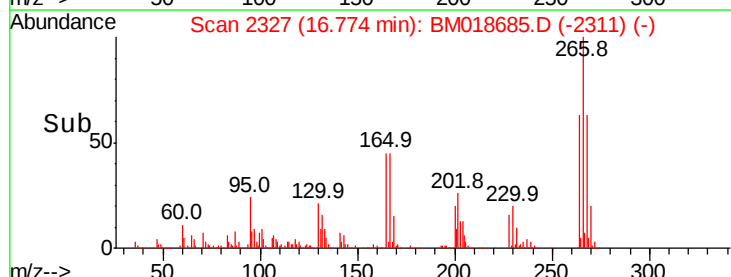
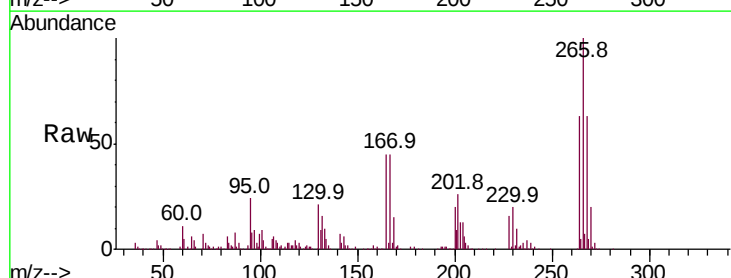
Manual Integrations  
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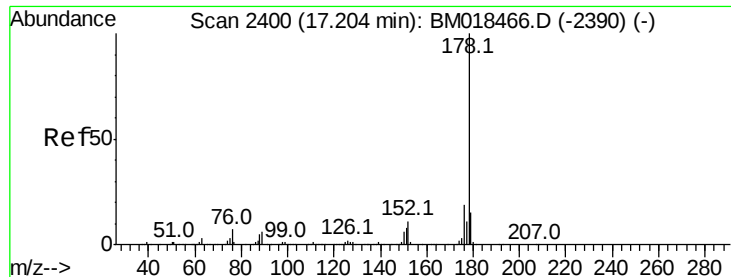
mohammad  
1/30/2019 11:10:39 AM



#70  
Pentachlorophenol  
Concen: 79.370 ng  
RT: 16.77 min Scan# 2327  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 63.4  | 49.8  | 74.6  |
| 264     | 62.7  | 50.1  | 75.1  |





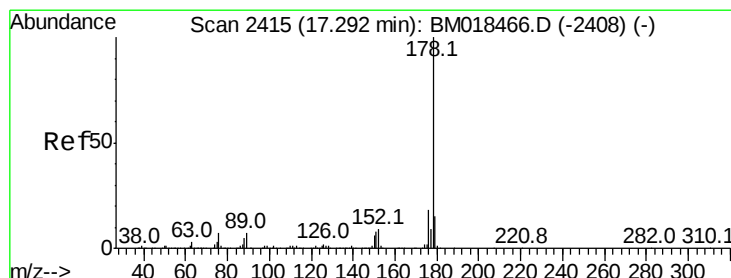
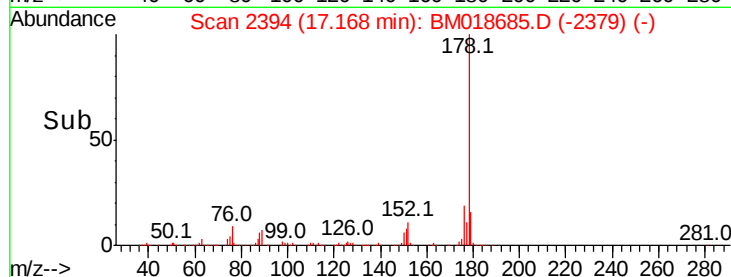
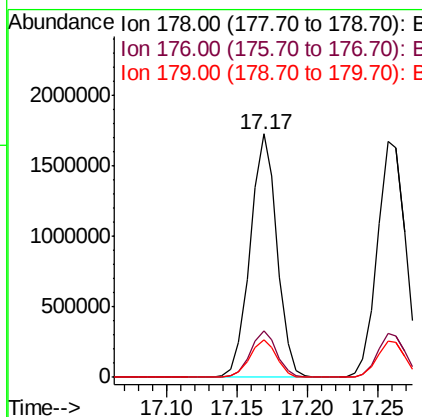
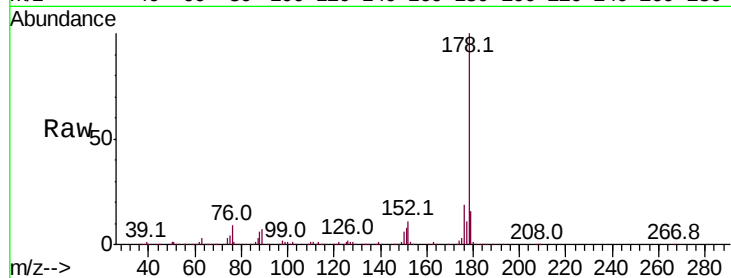
#71  
Phenanthrene  
Concen: 46.799 ng  
RT: 17.17 min Scan# 2394  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.3  | 15.4  | 23.0  |
| 179     | 15.6  | 12.2  | 18.4  |

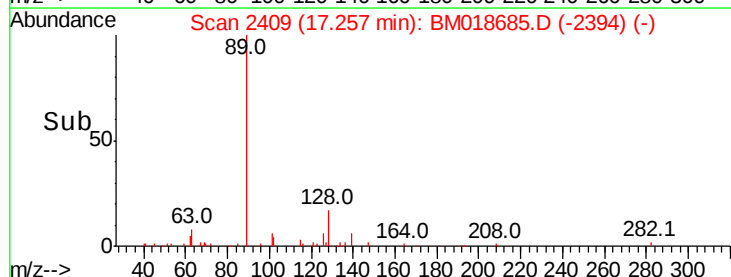
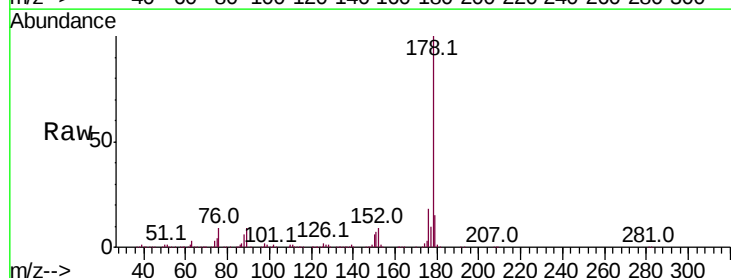
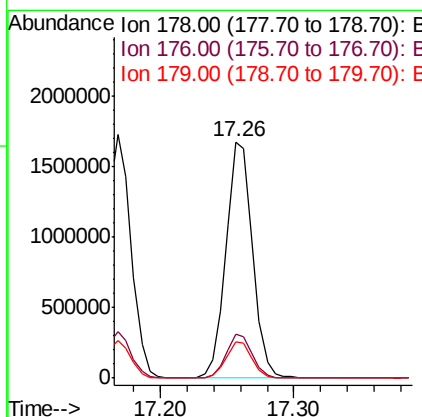
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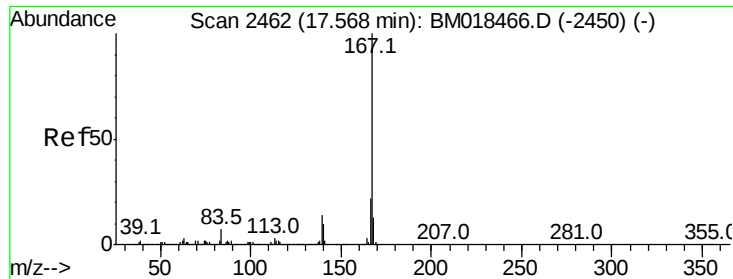
mohammad  
1/30/2019 11:10:39 AM



#72  
Anthracene  
Concen: 49.376 ng  
RT: 17.26 min Scan# 2409  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 14.7  | 22.1  |
| 179     | 15.2  | 12.2  | 18.4  |





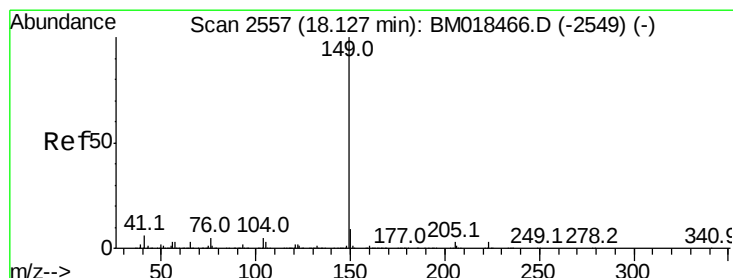
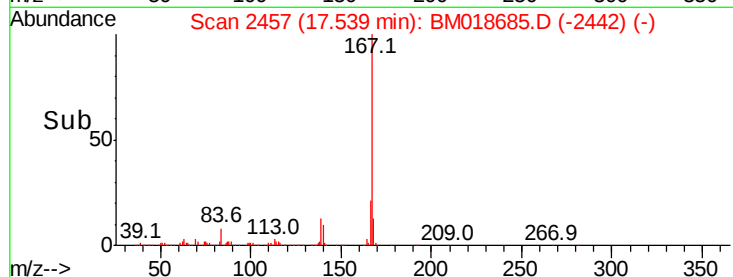
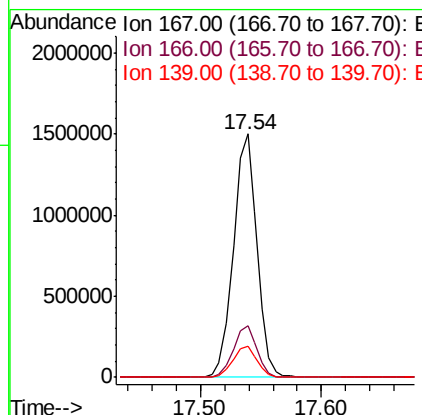
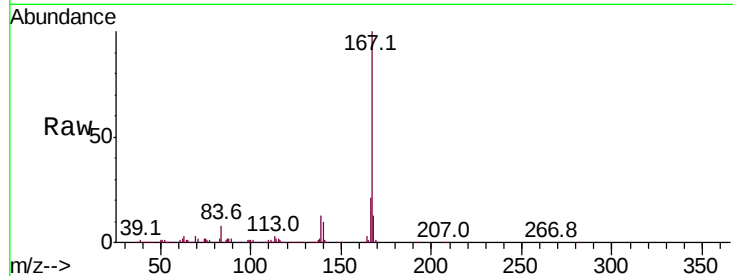
#73  
 Carbazole  
 Concen: 41.685 ng  
 RT: 17.54 min Scan# 2457  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.4  | 17.4  | 26.2  |
| 139     | 12.9  | 10.6  | 16.0  |

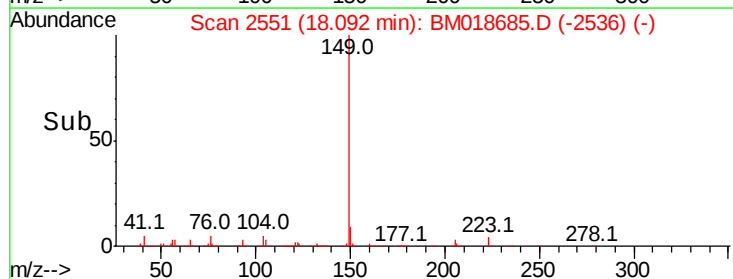
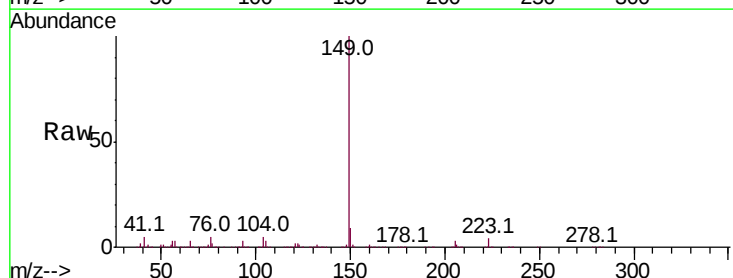
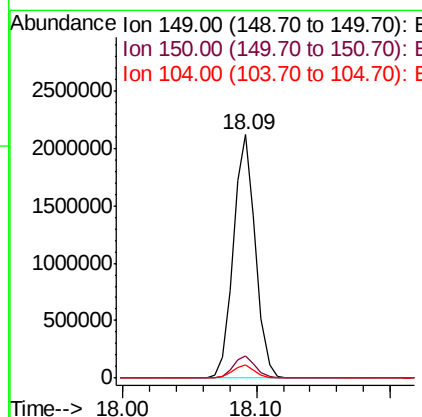
Manual Integrations  
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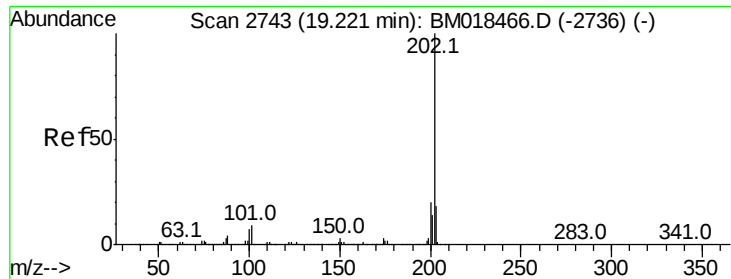
mohammad  
 1/30/2019 11:10:39 AM



#74  
 Di-n-butylphthalate  
 Concen: 45.634 ng  
 RT: 18.09 min Scan# 2551  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 8.9   | 7.3   | 10.9  |
| 104     | 5.3   | 4.2   | 6.4   |





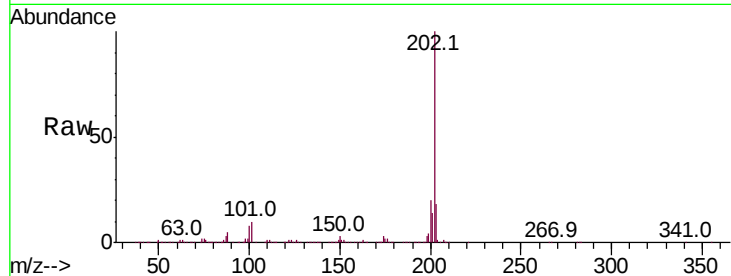
#75  
 Fluoranthene  
 Concen: 44.262 ng  
 RT: 19.19 min Scan# 2737  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 0.0   | 30.9  |
| 203     | 17.6  | 0.0   | 37.4  |

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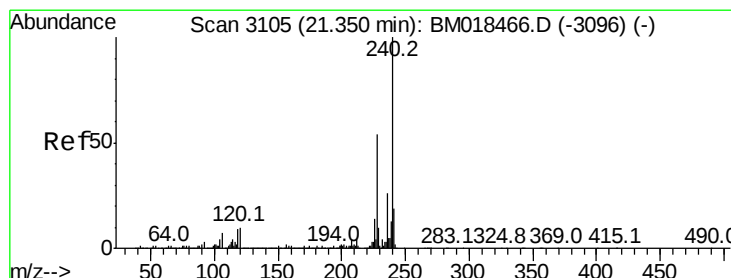
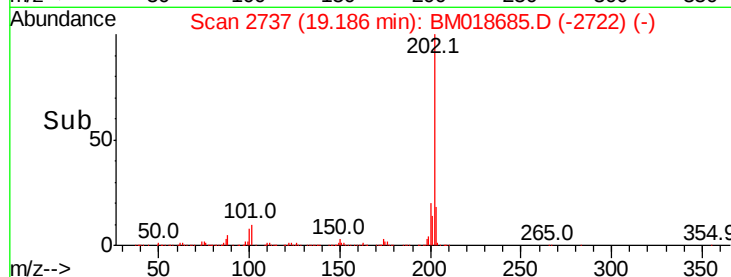
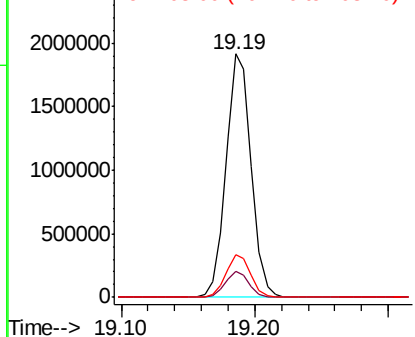


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.32 min Scan# 3100  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

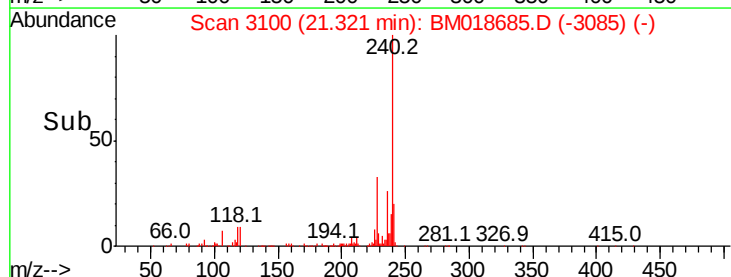
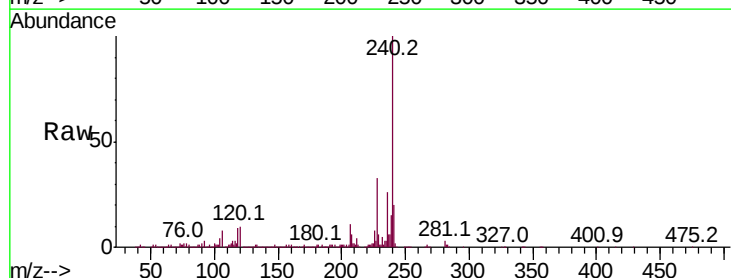
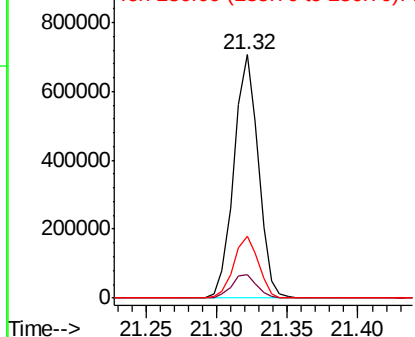
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.6   | 8.4   | 12.6  |
| 236     | 25.6  | 20.7  | 31.1  |

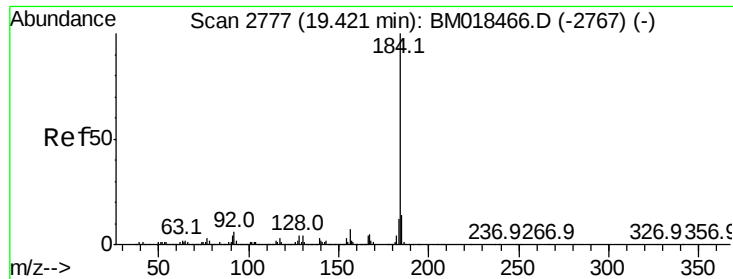
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 16.593 ng

RT: 19.39 min Scan# 2771

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

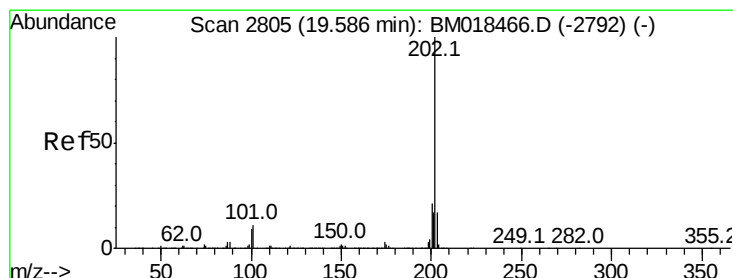
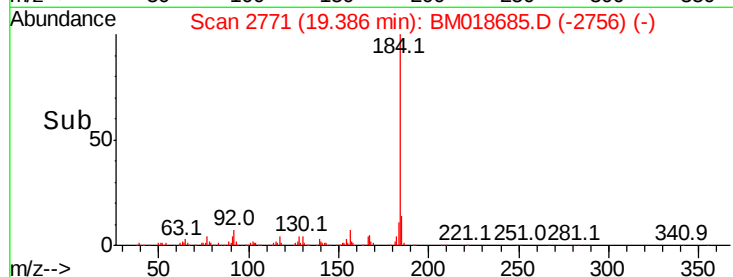
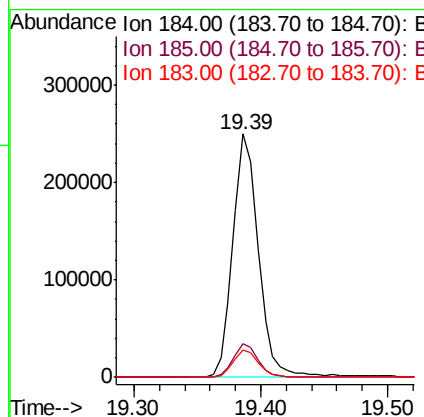
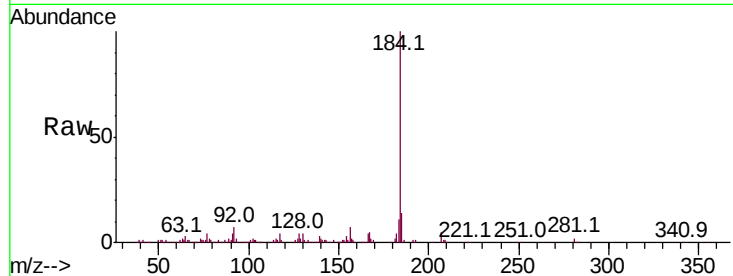
ClientSampleId :

HD-01-012819MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 184   | Resp: | 349043 |
| Ion Ratio | Lower | Upper |        |
| 184       | 100   |       |        |
| 185       | 13.8  | 11.4  | 17.0   |
| 183       | 11.5  | 9.5   | 14.3   |

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#78

Pyrene

Concen: 51.027 ng

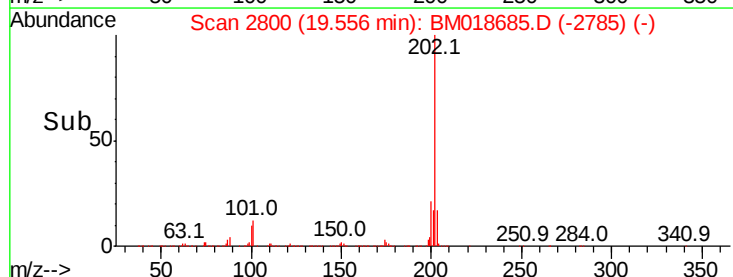
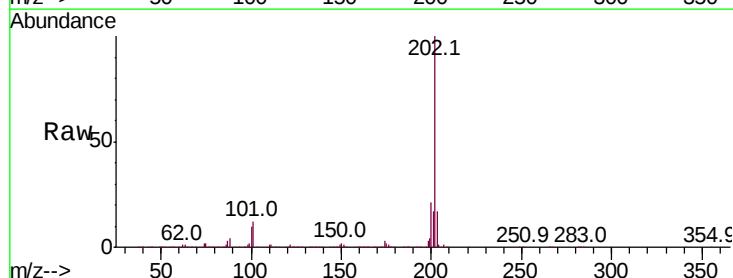
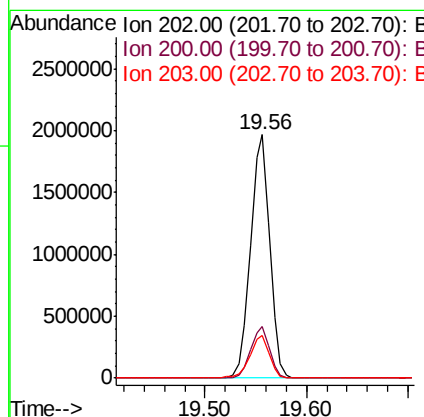
RT: 19.56 min Scan# 2800

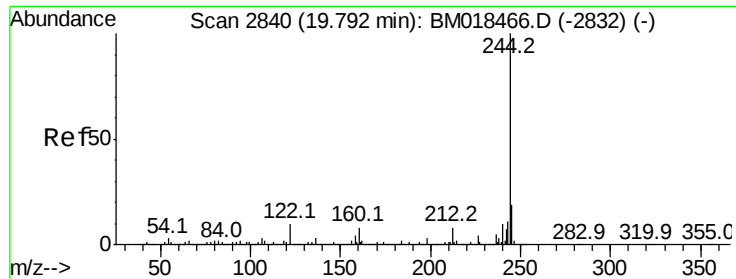
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 2576739 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 200       | 21.0  | 16.6  | 24.8    |
| 203       | 17.4  | 13.8  | 20.8    |





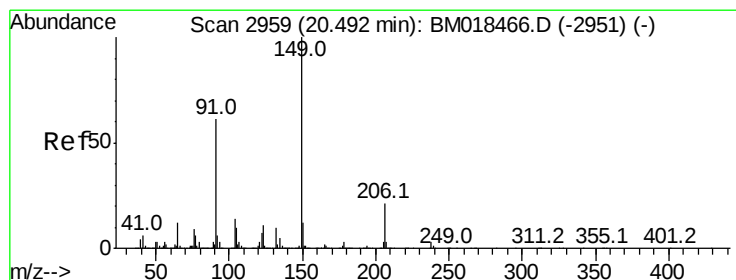
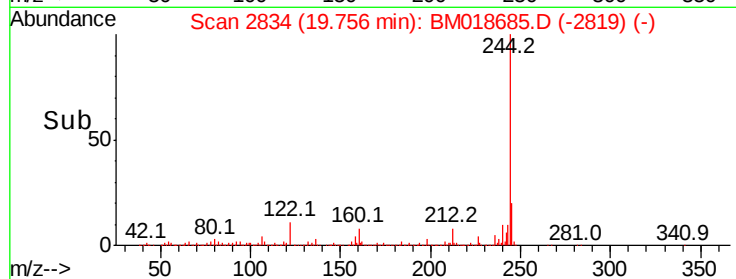
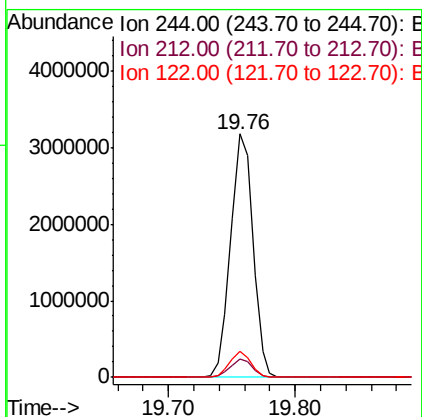
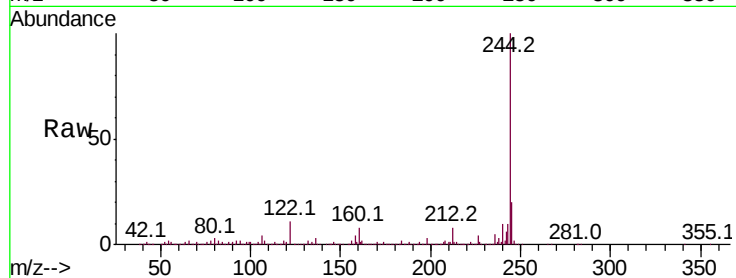
#79  
 Terphenyl-d14  
 Concen: 95.707 ng  
 RT: 19.76 min Scan# 2834  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

Instrument :  
 BNA\_M  
 ClientSampleId :  
 HD-01-012819MS

Tot Ion:244 Resp: 3867792  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 5.9 8.9  
 122 10.8 9.0 13.4

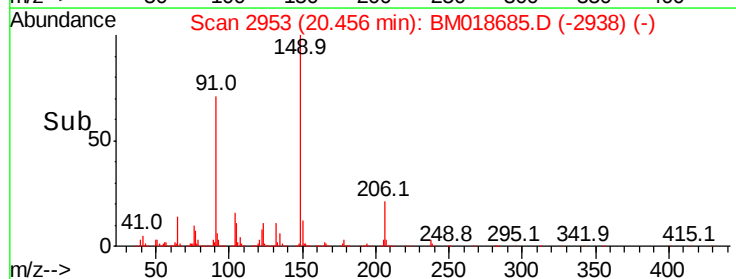
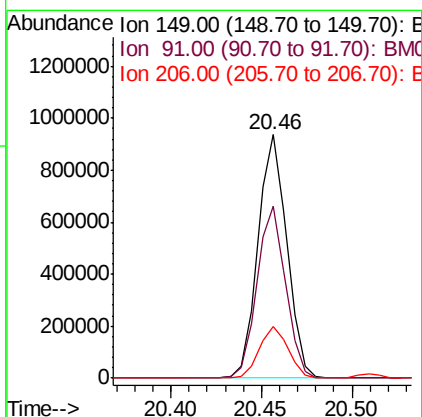
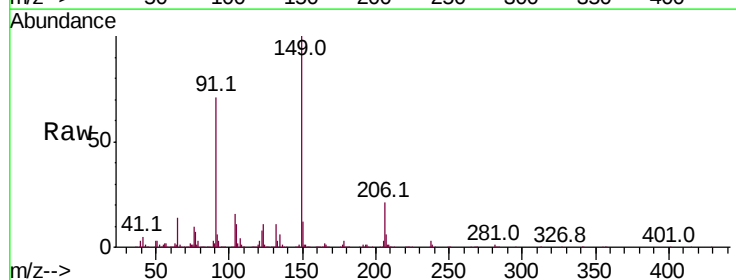
Manual Integrations  
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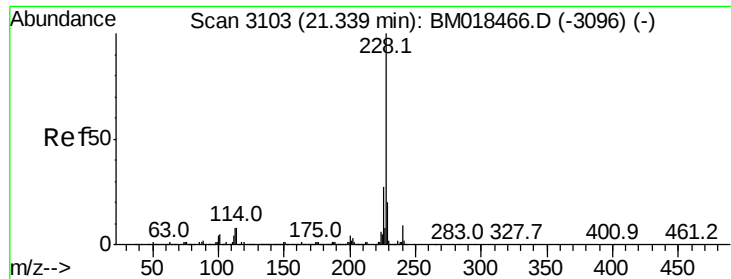
mohammad  
 1/30/2019 11:10:39 AM



#80  
 Butylbenzylphthalate  
 Concen: 47.924 ng  
 RT: 20.46 min Scan# 2953  
 Delta R.T. -0.01 min  
 Lab File: BM018685.D  
 Acq: 29 Jan 2019 19:49

Tgt Ion:149 Resp: 1032640  
 Ion Ratio Lower Upper  
 149 100  
 91 70.6 53.1 79.7  
 206 21.4 16.2 24.4





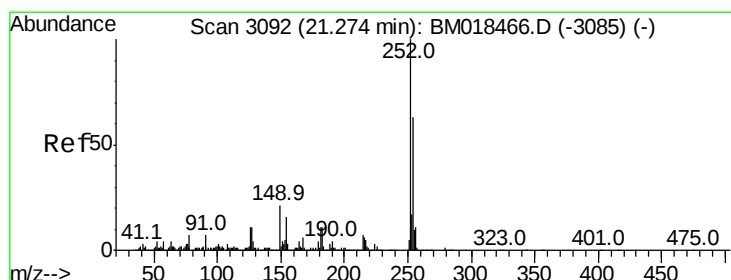
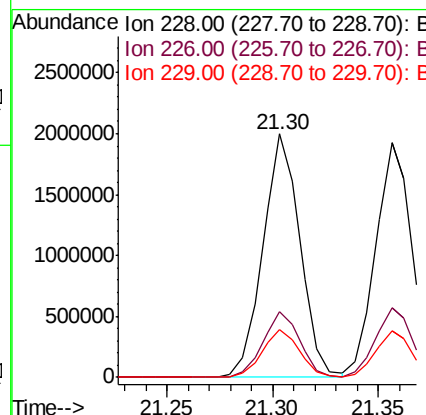
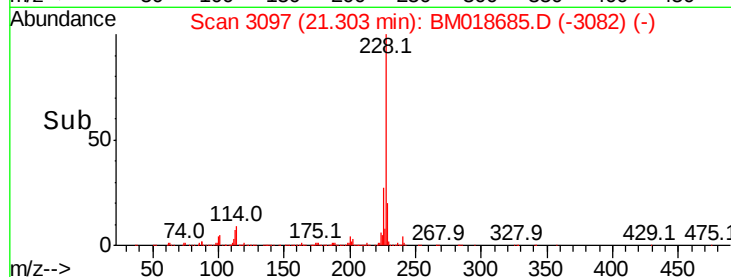
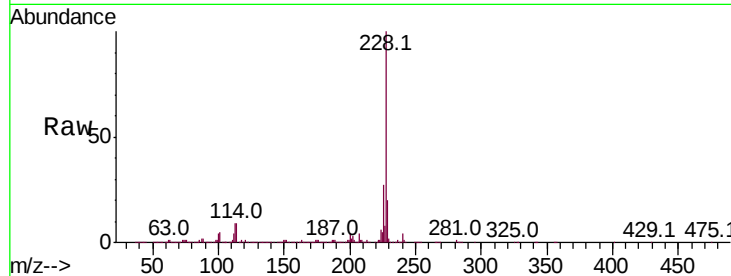
#81  
Benzo(a)anthracene  
Concen: 48.514 ng  
RT: 21.30 min Scan# 3097  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.9  | 21.8  | 32.6  |
| 229     | 19.8  | 15.8  | 23.8  |

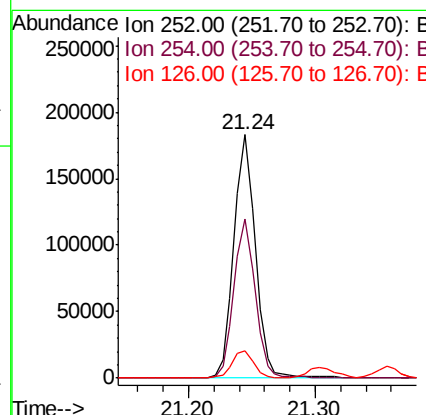
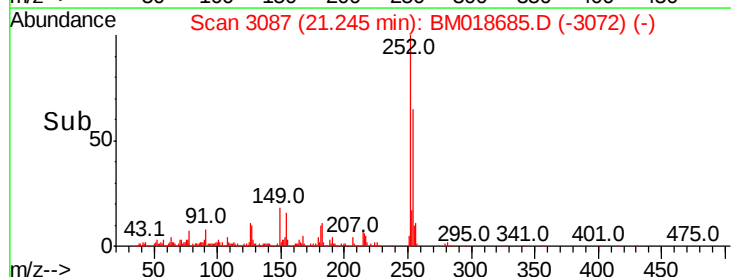
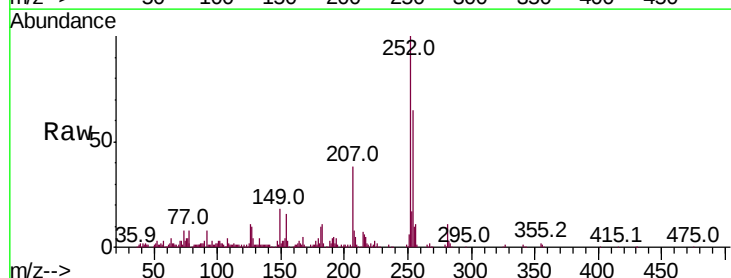
Manual Integrations  
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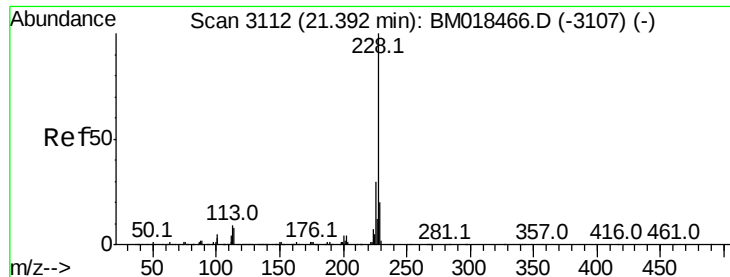
mohammad  
1/30/2019 11:10:39 AM



#82  
3,3'-Dichlorobenzidine  
Concen: 11.325 ng  
RT: 21.24 min Scan# 3087  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 65.1  | 51.4  | 77.0  |
| 126     | 11.1  | 8.7   | 13.1  |





#83

Chrysene

Concen: 47.444 ng

RT: 21.36 min Scan# 3106

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

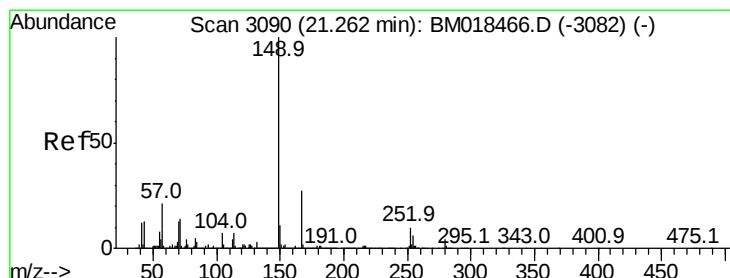
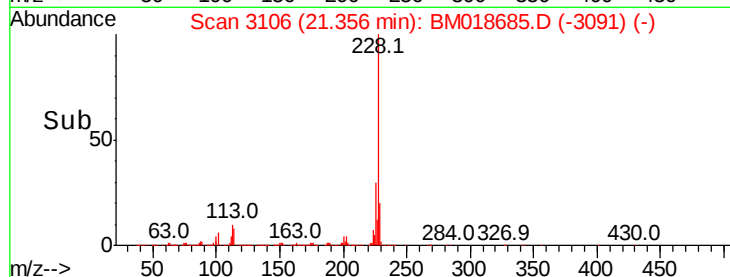
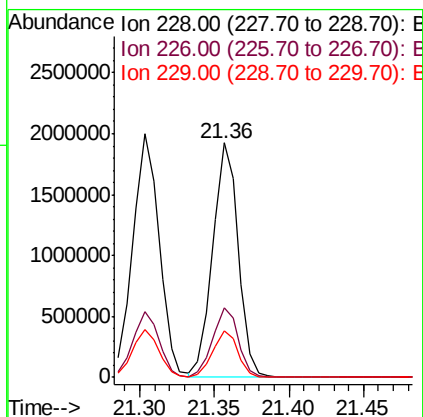
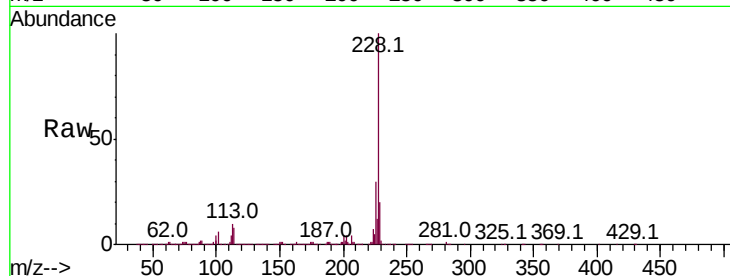
ClientSampleID :

HD-01-012819MS

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 228   | Resp: | 2299311 |
| Ion      | Ratio | Lower | Upper   |
| 228      | 100   |       |         |
| 226      | 29.6  | 24.2  | 36.2    |
| 229      | 19.9  | 15.6  | 23.4    |

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#84

Bis(2-ethylhexyl)phthalate

Concen: 46.124 ng

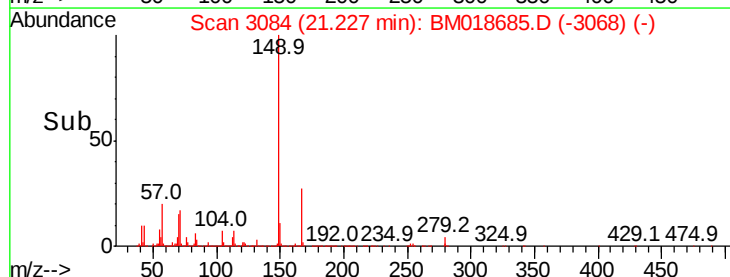
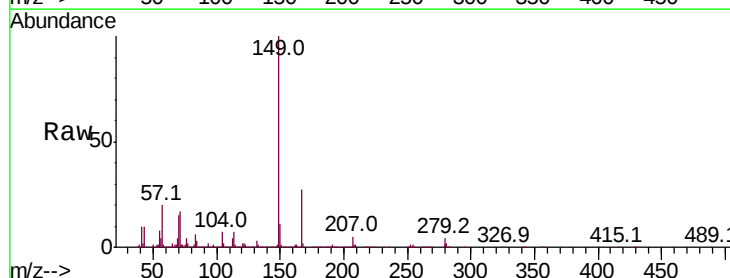
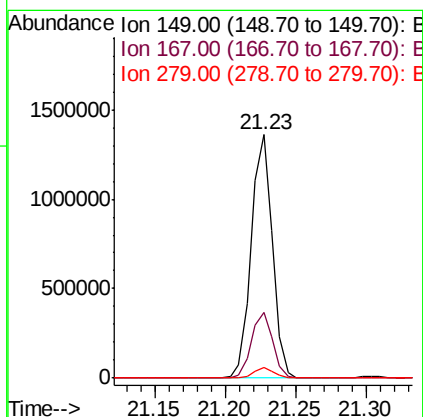
RT: 21.23 min Scan# 3084

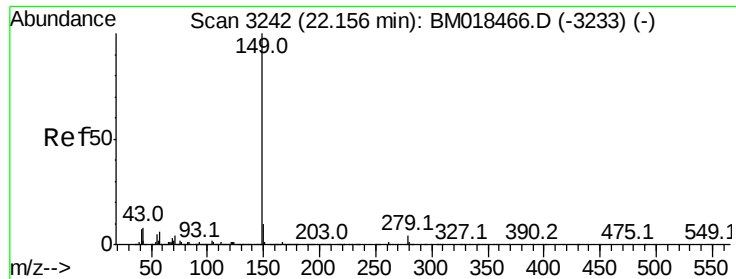
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 149   | Resp: | 1435162 |
| Ion      | Ratio | Lower | Upper   |
| 149      | 100   |       |         |
| 167      | 27.2  | 21.6  | 32.4    |
| 279      | 4.2   | 3.3   | 4.9     |





#85

Di-n-octyl phthalate

Concen: 46.835 ng

RT: 22.12 min Scan# 3235

Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

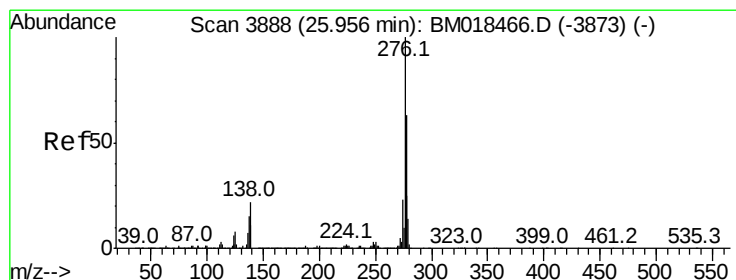
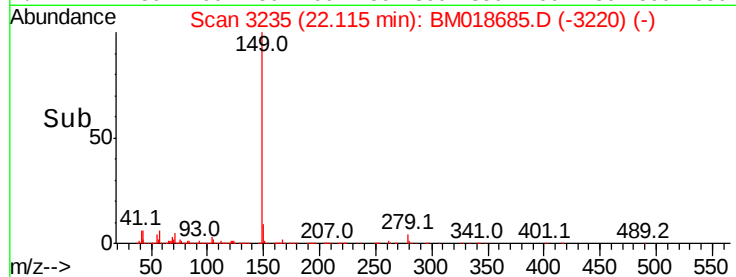
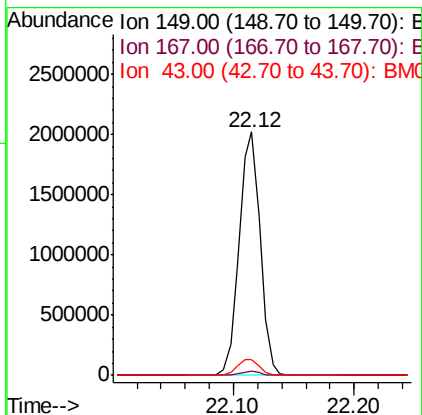
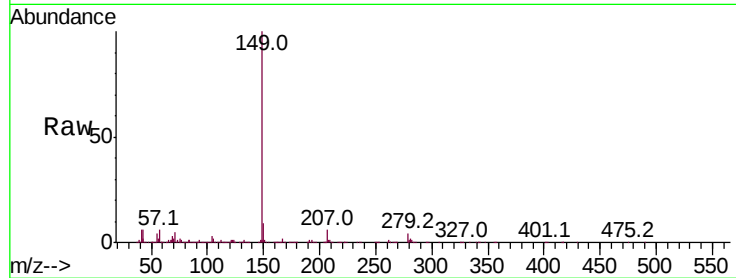
ClientSampleId :

HD-01-012819MS

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 149   | Resp: | 2450981 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 167       | 1.6   | 1.3   | 1.9     |
| 43        | 6.8   | 8.6   | 12.8#   |

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#86

Indeno(1,2,3-cd)pyrene

Concen: 54.627 ng

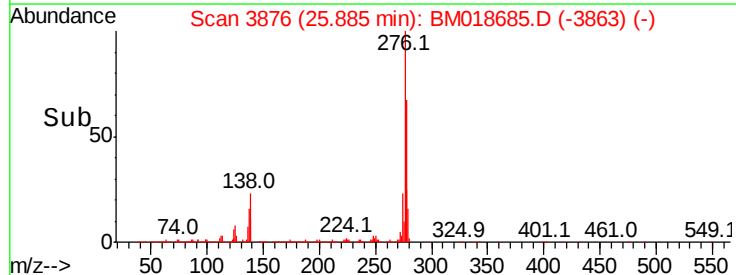
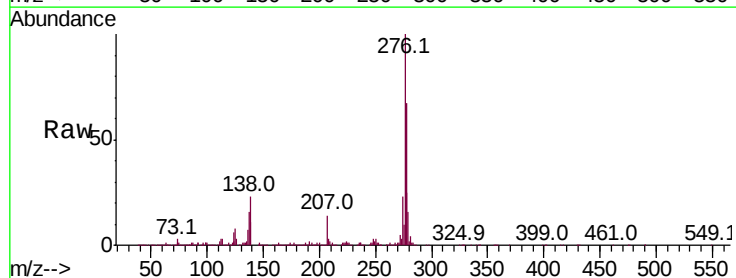
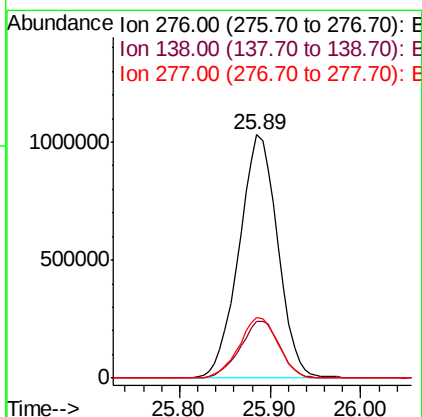
RT: 25.89 min Scan# 3876

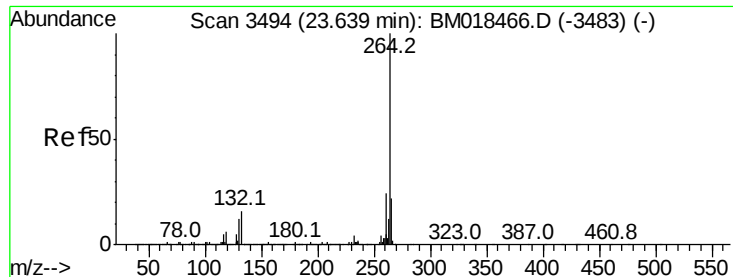
Delta R.T. -0.02 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 276   | Resp: | 3052778 |
| Ion Ratio | Lower | Upper |         |
| 276       | 100   |       |         |
| 138       | 23.9  | 21.5  | 32.3    |
| 277       | 25.3  | 20.2  | 30.2    |





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.59 min Scan# 3485

Delta R.T. -0.02 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

Instrument :

BNA\_M

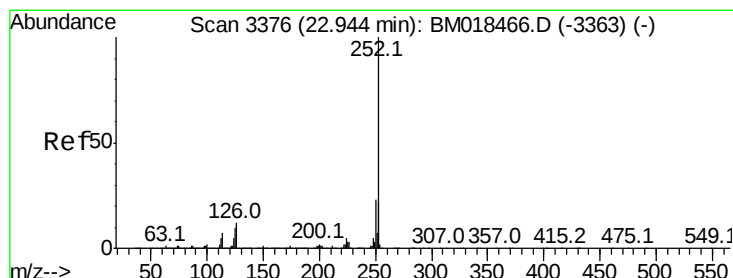
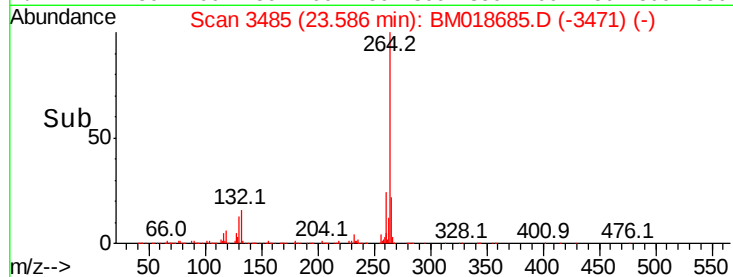
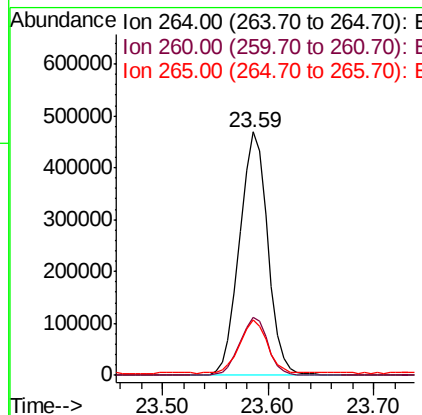
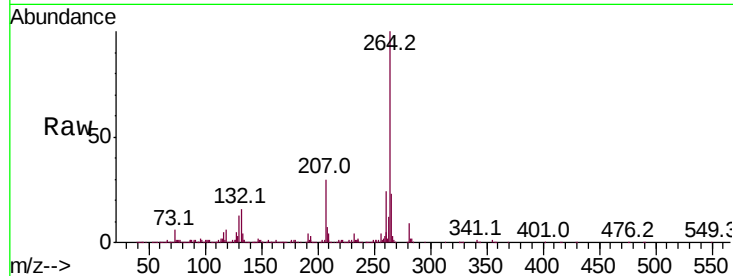
ClientSampleId :

HD-01-012819MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 868623 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.8  | 18.9  | 28.3   |
| 265       | 22.6  | 16.8  | 25.2   |

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#88

Benzo(b)fluoranthene

Concen: 50.049 ng

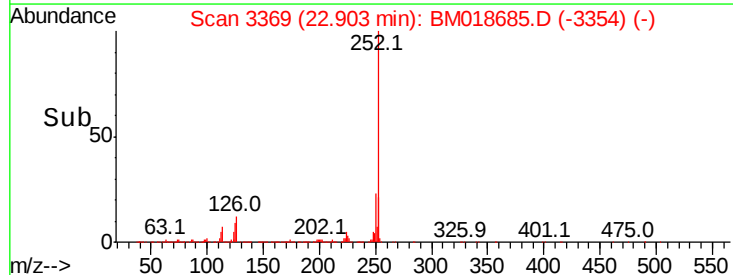
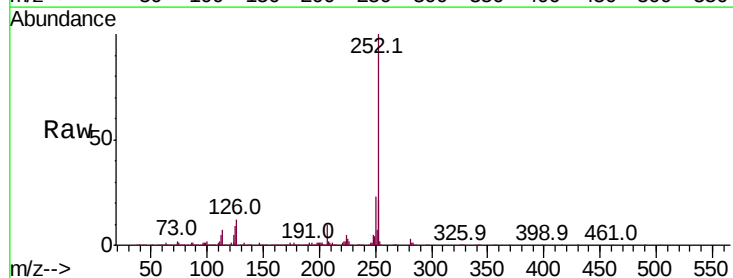
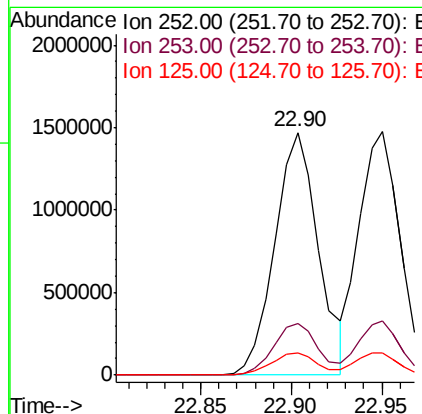
RT: 22.90 min Scan# 3369

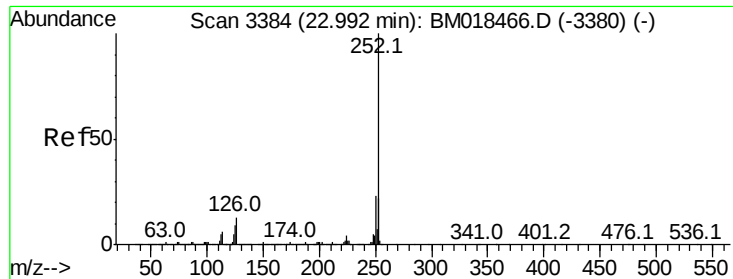
Delta R.T. -0.01 min

Lab File: BM018685.D

Acq: 29 Jan 2019 19:49

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 252   | Resp: | 2468094 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 21.4  | 17.6  | 26.4    |
| 125       | 9.4   | 8.5   | 12.7    |





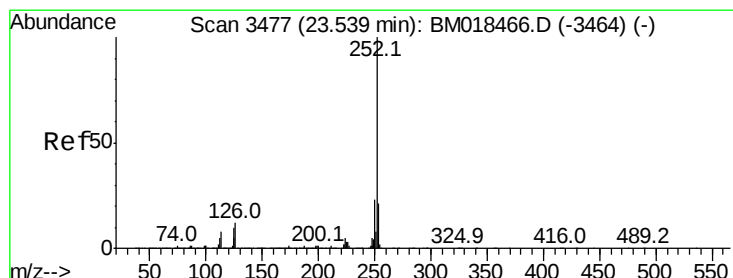
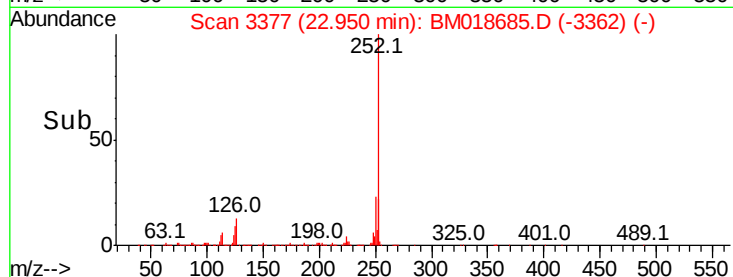
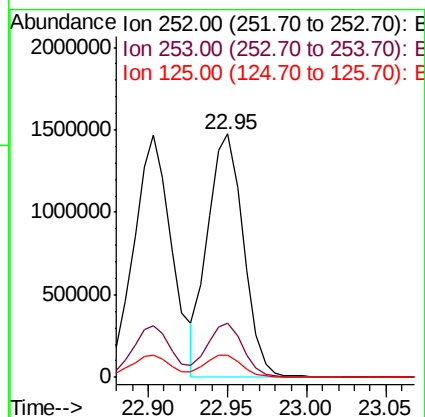
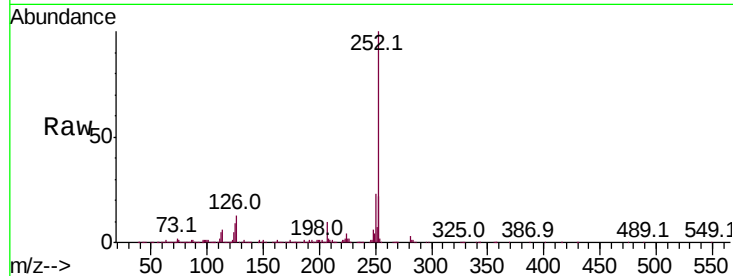
#89  
Benzo(k)fluoranthene  
Concen: 46.647 ng  
RT: 22.95 min Scan# 3377  
Delta R.T. -0.01 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.4  | 26.0  |
| 125     | 9.3   | 8.6   | 12.8  |

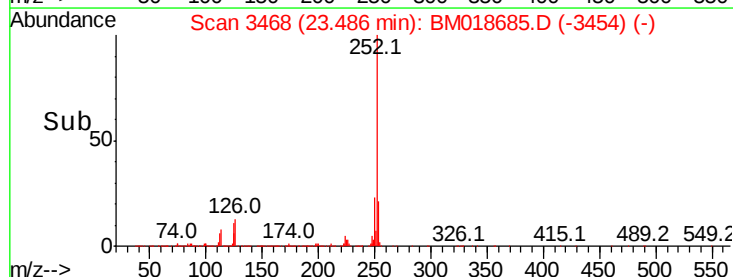
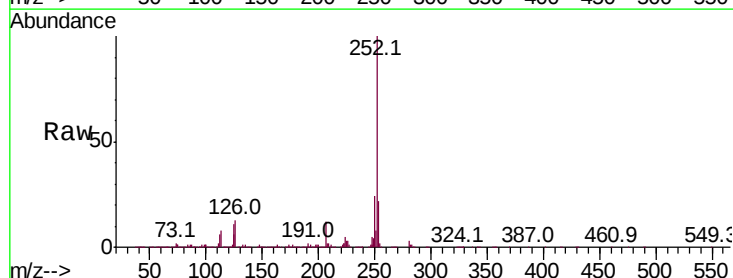
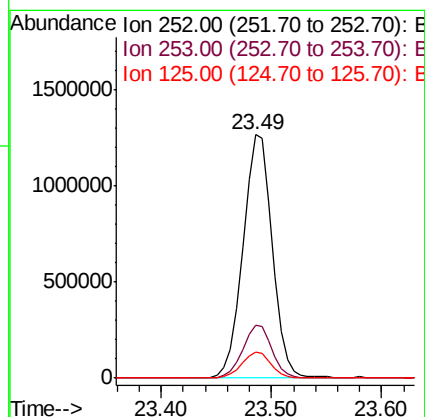
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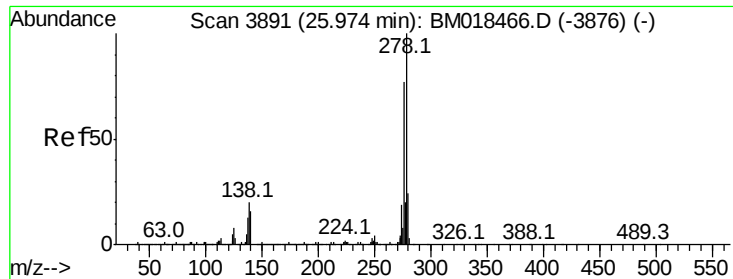
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#90  
Benzo(a)pyrene  
Concen: 49.951 ng  
RT: 23.49 min Scan# 3468  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 17.5  | 26.3  |
| 125     | 10.7  | 9.7   | 14.5  |





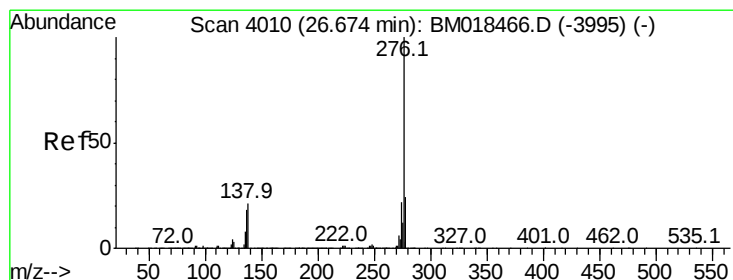
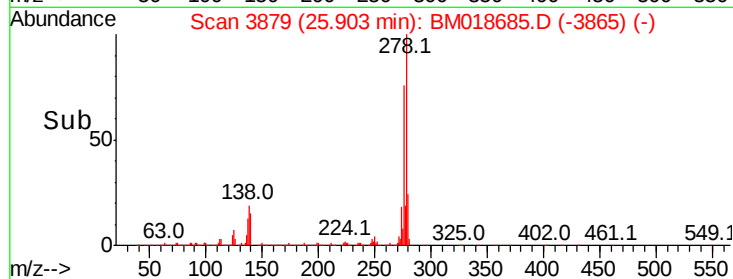
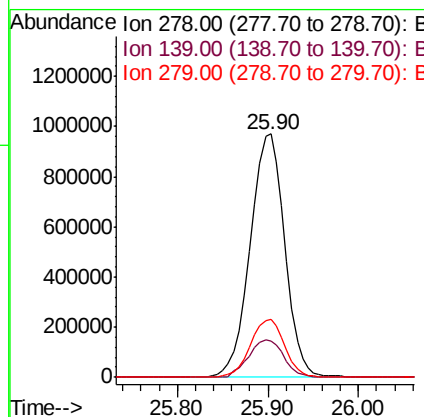
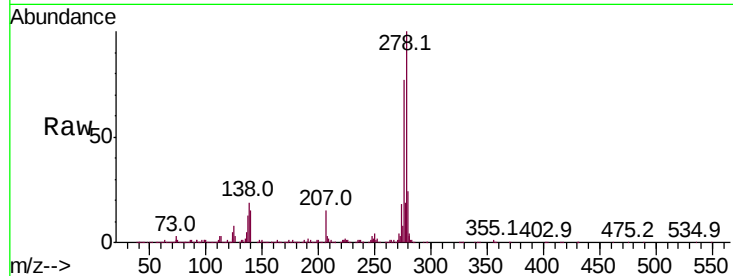
#91  
Dibenzo(a,h)anthracene  
Concen: 53.704 ng  
RT: 25.90 min Scan# 3879  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

Instrument :  
BNA\_M  
ClientSampleId :  
HD-01-012819MS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.1  | 13.2  | 19.8  |
| 279     | 23.8  | 19.0  | 28.4  |

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#92  
Benzo(g,h,i)perylene  
Concen: 55.653 ng  
RT: 26.60 min Scan# 3997  
Delta R.T. -0.02 min  
Lab File: BM018685.D  
Acq: 29 Jan 2019 19:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.2  | 19.0  | 28.4  |
| 138     | 20.3  | 18.1  | 27.1  |

