

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022217\  
 Data File : BF093092.D  
 Acq On : 22 Feb 2017 23:00  
 Operator : SJ/MA  
 Sample : I1931-07MSD  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

Manual Integrations  
 APPROVED

mohammad  
 2/23/2017 1:16:18 PM

Quant Time: Feb 23 00:45:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 17:31:55 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.84  | 152  | 152927   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.13  | 136  | 608181   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.88  | 164  | 295706   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.36 | 188  | 523459   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 14.00 | 240  | 465967   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.41 | 264  | 330748   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.45  | 112  | 58296    | 6.54   | ng    | 0.00     |
| 7) Phenol-d6                | 6.48  | 99   | 680363   | 59.32  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 975851   | 89.35  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 444      | 0.21   | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.21  | 172  | 1809340  | 110.85 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.94 | 244  | 1574039  | 79.37  | ng    | -0.02    |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 2.45 | 88   | 180693   | 37.52 | ng    | # 85   |
| 3) Pyridine                    | 3.16 | 79   | 539161   | 44.02 | ng    | 85     |
| 4) n-Nitrosodimethylamine      | 3.14 | 42   | 277917   | 48.33 | ng    | 90     |
| 6) Aniline                     | 6.50 | 93   | 391525   | 25.03 | ng    | # 56   |
| 8) 2-Chlorophenol              | 6.62 | 128  | 21294    | 2.17  | ng    | 97     |
| 9) Benzaldehyde                | 6.38 | 77   | 143501   | 17.46 | ng    | 98     |
| 10) Phenol                     | 6.49 | 94   | 258557   | 19.27 | ng    | 91     |
| 11) bis(2-Chloroethyl)ether    | 6.58 | 93   | 511218   | 47.73 | ng    | 100    |
| 12) 1,3-Dichlorobenzene        | 6.78 | 146  | 521010   | 45.23 | ng    | 97     |
| 13) 1,4-Dichlorobenzene        | 6.85 | 146  | 517359   | 44.38 | ng    | 99     |
| 14) 1,2-Dichlorobenzene        | 7.01 | 146  | 501904   | 45.03 | ng    | 97     |
| 15) Benzyl Alcohol             | 6.99 | 79   | 367231   | 43.25 | ng    | 98     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.13 | 45   | 810588   | 43.56 | ng    | 96     |
| 17) 2-Methylphenol             | 7.12 | 107  | 319449   | 37.87 | ng    | 97     |
| 18) Hexachloroethane           | 7.36 | 117  | 182937   | 45.97 | ng    | 99     |
| 19) n-Nitroso-di-n-propylamine | 7.26 | 70   | 338193   | 46.32 | ng    | 96     |
| 20) 3+4-Methylphenols          | 7.26 | 107  | 299904   | 29.73 | ng    | # 63   |
| 22) Acetophenone               | 7.25 | 105  | 663032   | 47.75 | ng    | # 99   |
| 24) Nitrobenzene               | 7.44 | 77   | 578180   | 51.56 | ng    | 93     |
| 25) Isophorone                 | 7.68 | 82   | 992643   | 48.78 | ng    | 96     |
| 26) 2-Nitrophenol              | 7.68 | 139  | 16789    | 3.15  | ng    | # 79   |
| 27) 2,4-Dimethylphenol         | 7.79 | 122  | 350554   | 37.44 | ng    | 97     |
| 28) bis(2-Chloroethoxy)methane | 7.88 | 93   | 576797   | 42.79 | ng    | 99     |
| 30) 1,2,4-Trichlorobenzene     | 8.08 | 180  | 432576   | 45.97 | ng    | 98     |
| 31) Naphthalene                | 8.16 | 128  | 1394306  | 45.23 | ng    | 99     |
| 33) 4-Chloroaniline            | 8.20 | 127  | 330206   | 27.31 | ng    | 95     |
| 34) Hexachlorobutadiene        | 8.27 | 225  | 229490   | 44.33 | ng    | 98     |
| 35) Caprolactam                | 8.64 | 113  | 112257m  | 40.87 | ng    |        |
| 36) 4-Chloro-3-methylphenol    | 8.69 | 107  | 135335   | 14.87 | ng    | 96     |
| 37) 2-Methylnaphthalene        | 8.84 | 142  | 954975   | 48.24 | ng    | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.00 | 216  | 388857   | 46.85 | ng    | 99     |
| 40) Hexachlorocyclopentadiene  | 8.99 | 237  | 293206   | 78.29 | ng    | 95     |
| 45) 1,1'-Biphenyl              | 9.30 | 154  | 1033986  | 48.29 | ng    | 97     |
| 46) 2-Chloronaphthalene        | 9.33 | 162  | 883242   | 52.73 | ng    | 94     |

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 ClientSampleId :  
 P-5MSD

Manual Integrations  
 APPROVED

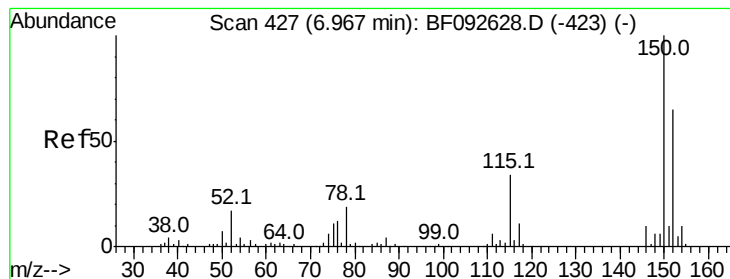
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Quant Time: Feb 23 00:45:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 47) 2-Nitroaniline             | 9.42  | 65   | 266925   | 47.40  | nq    | 97       |
| 48) Acenaphthylene             | 9.74  | 152  | 1415442  | 48.92  | nq    | 98       |
| 49) Dimethylphthalate          | 9.61  | 163  | 1129682  | 56.72  | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.68  | 165  | 240990   | 56.03  | nq    | # 78     |
| 51) Acenaphthene               | 9.92  | 154  | 829433   | 47.94  | nq    | 97       |
| 52) 3-Nitroaniline             | 9.84  | 138  | 200439   | 40.72  | nq    | 98       |
| 54) Dibenzofuran               | 10.09 | 168  | 1222705  | 52.84  | nq    | # 89     |
| 55) 4-Nitrophenol              | 10.09 | 139  | 428681   | 120.91 | nq    | # 5      |
| 56) 2,4-Dinitrotoluene         | 10.08 | 165  | 309921   | 54.12  | nq    | # 79     |
| 57) Fluorene                   | 10.43 | 166  | 859681   | 48.29  | nq    | 97       |
| 59) Diethylphthalate           | 10.30 | 149  | 967211   | 51.53  | nq    | 97       |
| 60) 4-Chlorophenyl-phenylether | 10.42 | 204  | 424335   | 49.62  | nq    | # 81     |
| 61) 4-Nitroaniline             | 10.45 | 138  | 269808   | 53.51  | nq    | 90       |
| 62) Azobenzene                 | 10.58 | 77   | 1141228  | 58.85  | nq    | 90       |
| 65) n-Nitrosodiphenylamine     | 10.53 | 169  | 750773   | 44.90  | nq    | 100      |
| 66) 4-Bromophenyl-phenylether  | 10.91 | 248  | 237152   | 43.36  | nq    | # 81     |
| 67) Hexachlorobenzene          | 10.97 | 284  | 231006   | 42.74  | nq    | # 79     |
| 68) Atrazine                   | 11.07 | 200  | 212499   | 39.60  | nq    | 99       |
| 70) Phenanthrene               | 11.39 | 178  | 1460135  | 48.69  | nq    | 98       |
| 71) Anthracene                 | 11.44 | 178  | 1291494  | 42.88  | nq    | 99       |
| 72) Carbazole                  | 11.60 | 167  | 1320933  | 45.88  | nq    | 98       |
| 73) Di-n-butylphthalate        | 11.92 | 149  | 2113002  | 67.87  | nq    | 98       |
| 74) Fluoranthene               | 12.57 | 202  | 1269702  | 41.05  | nq    | 99       |
| 76) Benzidine                  | 12.69 | 184  | 293839   | 14.80  | nq    | 96       |
| 77) Pyrene                     | 12.80 | 202  | 1317996  | 37.80  | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.41 | 149  | 635220   | 44.86  | nq    | 95       |
| 80) Benzo(a)anthracene         | 13.99 | 228  | 1165996  | 40.91  | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.95 | 252  | 289783   | 28.52  | nq    | # 95     |
| 82) Chrysene                   | 14.02 | 228  | 911420   | 34.16  | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 13.97 | 149  | 891338   | 46.03  | nq    | # 97     |
| 84) Di-n-octyl phthalate       | 14.58 | 149  | 1452972  | 46.07  | nq    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.82 | 276  | 816599   | 39.51  | nq    | # 93     |
| 87) Benzo(b)fluoranthene       | 15.01 | 252  | 1011966  | 46.48  | nq    | 97       |
| 88) Benzo(k)fluoranthene       | 15.04 | 252  | 890787m  | 47.39  | nq    |          |
| 89) Benzo(a)pyrene             | 15.36 | 252  | 873914   | 46.41  | nq    | # 96     |
| 90) Dibenzo(a,h)anthracene     | 16.82 | 278  | 681779   | 44.80  | nq    | # 93     |
| 91) Benzo(g,h,i)perylene       | 17.23 | 276  | 701119   | 45.60  | nq    | # 90     |

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





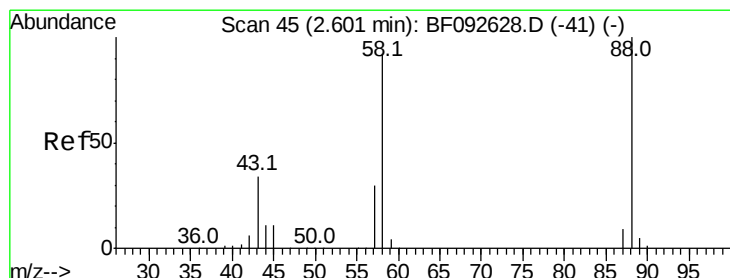
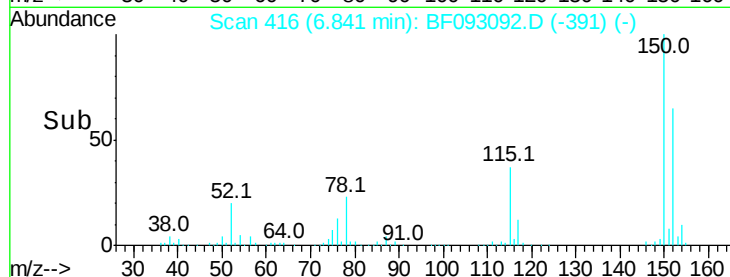
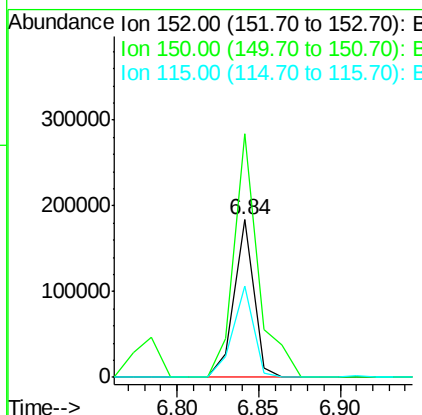
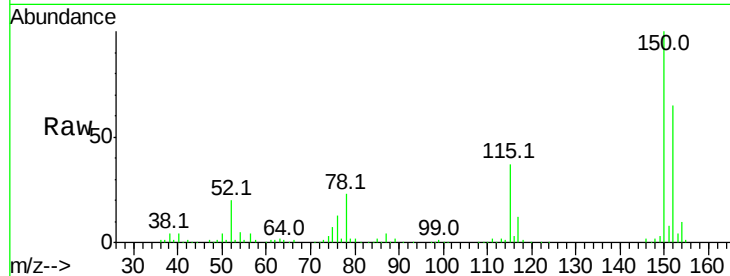
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 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.84 min Scan# 416  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.7 | 124.9 | 187.3 |
| 115     | 57.9  | 46.0  | 69.0  |

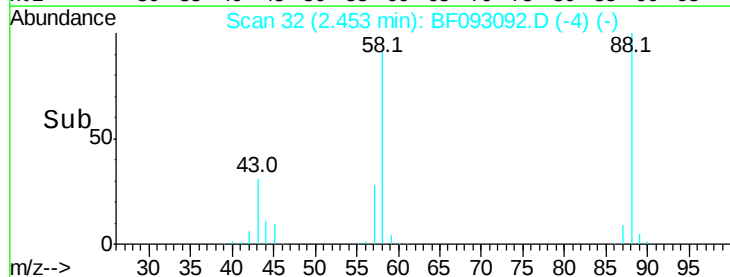
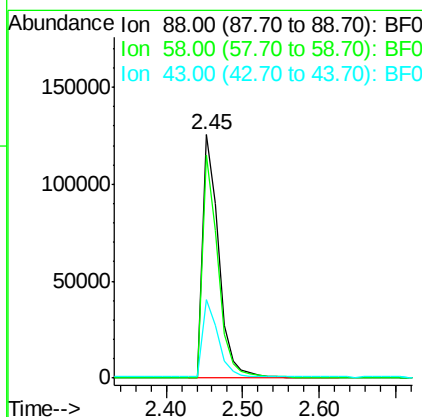
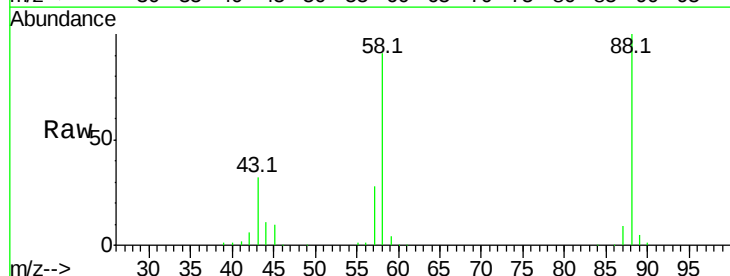
Manual Integrations  
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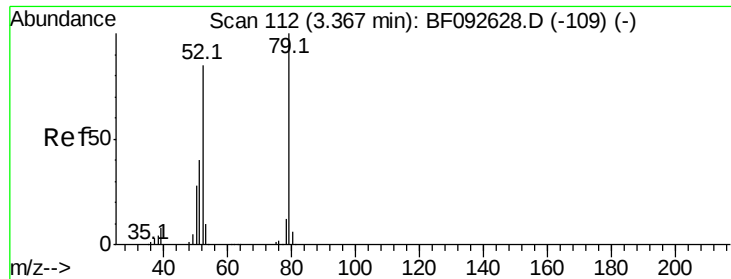
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#2  
 1,4-Dioxane  
 Concen: 37.52 ng  
 RT: 2.45 min Scan# 32  
 Delta R.T. 0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 87.9  | 57.8  | 86.8# |
| 43      | 30.5  | 22.3  | 33.5  |





#3

Pvridine

Concen: 44.02 ng

RT: 3.16 min Scan# 94

Delta R.T. 0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

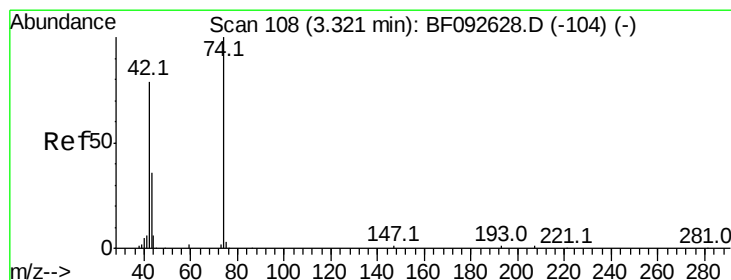
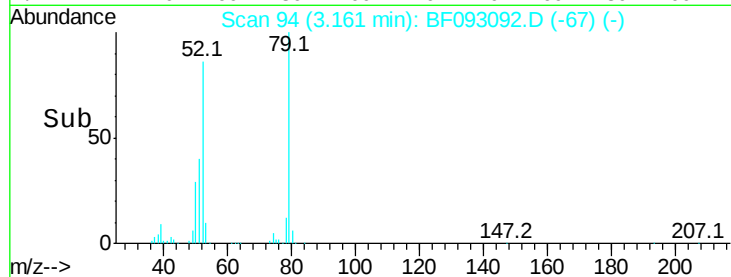
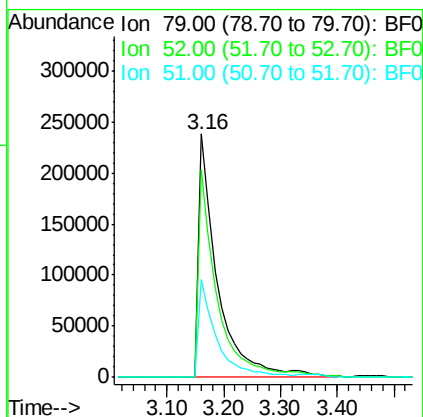
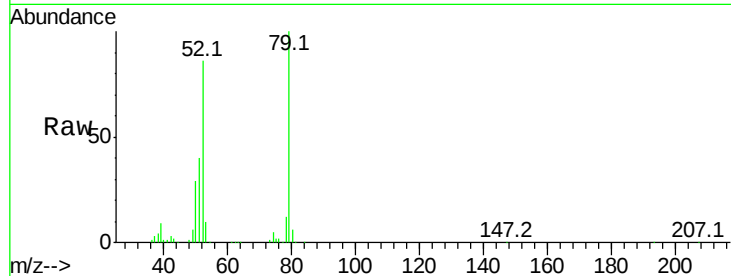
ClientSampleId :

P-5MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 79    | Resp: | 539161 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 52        | 85.6  | 57.1  | 85.7   |
| 51        | 40.2  | 27.3  | 40.9   |

Manual Integrations  
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#4

n-Nitrosodimethylamine

Concen: 48.33 ng

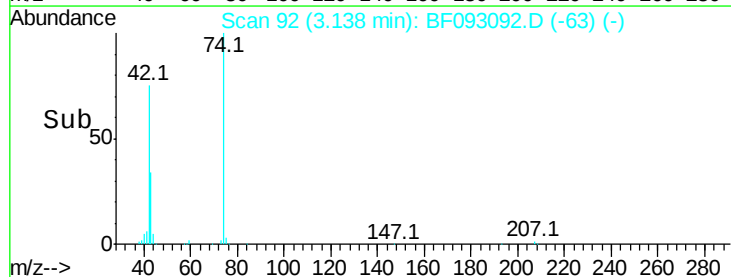
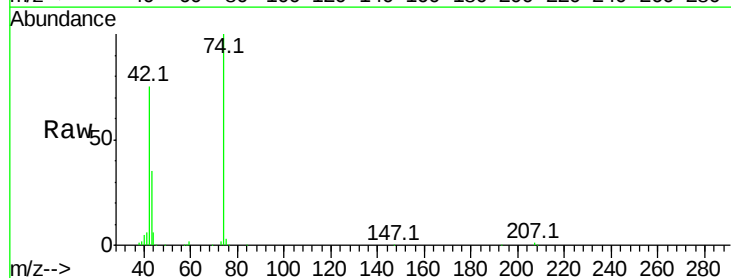
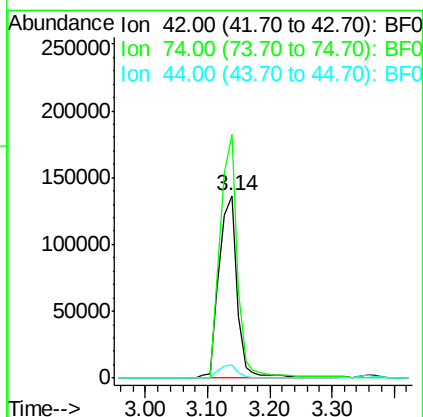
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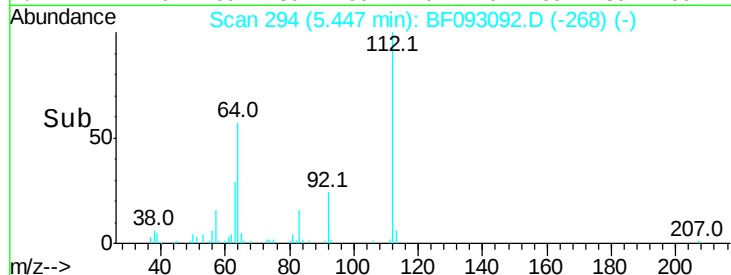
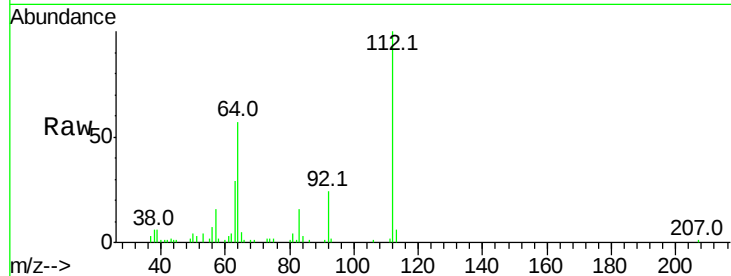
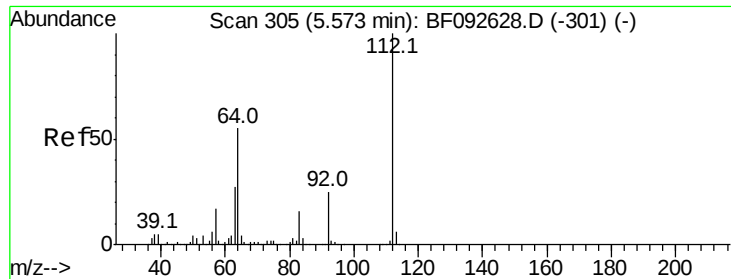
Delta R.T. 0.03 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 277917 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 74        | 133.3 | 117.0 | 175.4  |
| 44        | 7.4   | 5.5   | 8.3    |





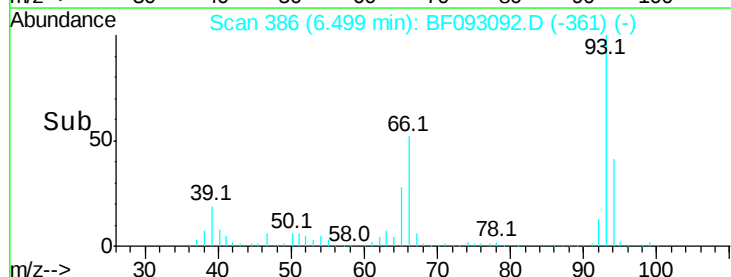
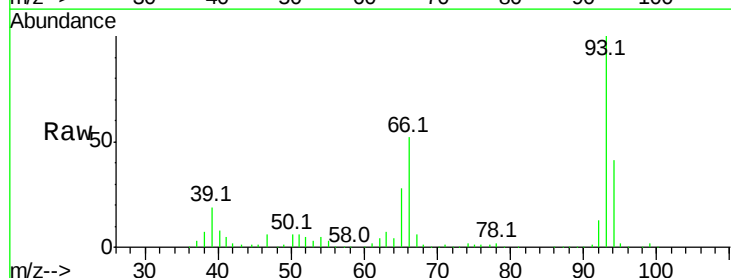
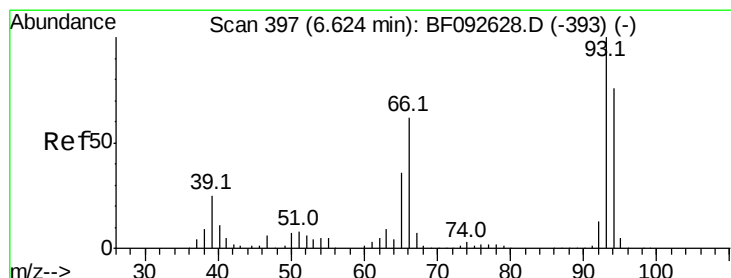
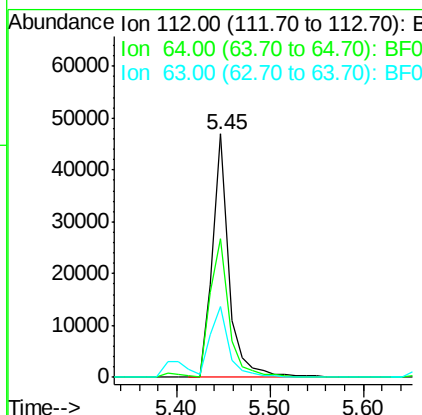
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2-Fluorophenol  
Concen: 6.54 ng  
RT: 5.45 min Scan# 294  
Delta R.T. -0.00 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 58296 |       |       |
| 64      | 56.9  |       | 46.1  | 69.1  |
| 63      | 29.1  |       | 23.8  | 35.6  |

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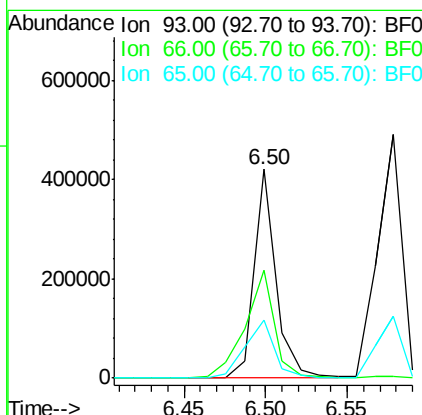
Manual Integrations  
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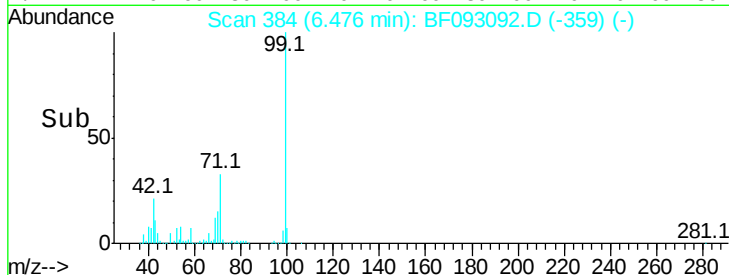
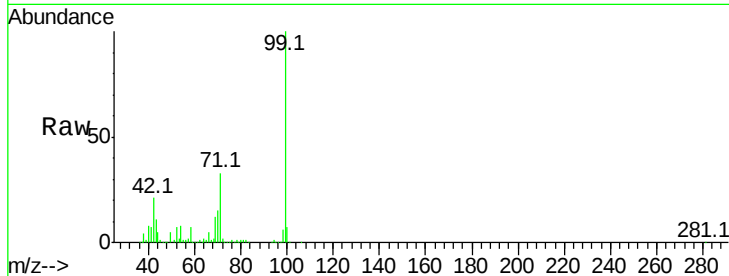
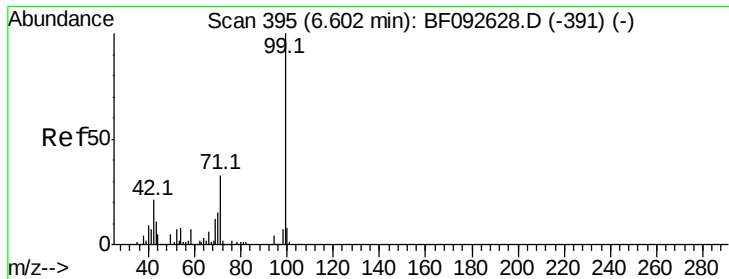
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#6  
Aniline  
Concen: 25.03 ng  
RT: 6.50 min Scan# 386  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp   | Lower | Upper  |
|---------|-------|--------|-------|--------|
| 93      | 100   | 391525 |       |        |
| 66      | 51.7  |        | 76.2  | 114.2# |
| 65      | 27.9  |        | 49.3  | 73.9#  |





#7

Phenol-d6

Concen: 59.32 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 680363 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.2  | 15.6  | 23.4   |
| 71        | 32.7  | 27.5  | 41.3   |

Instrument :

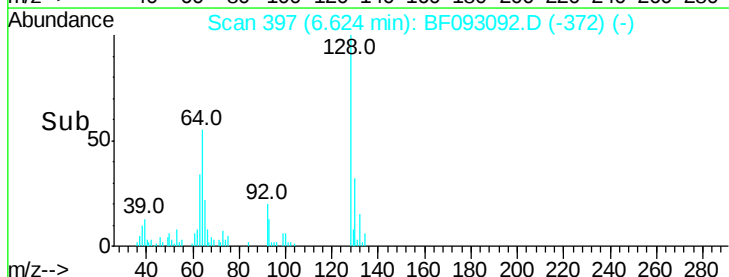
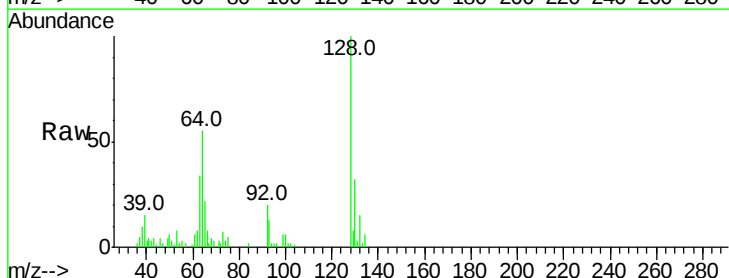
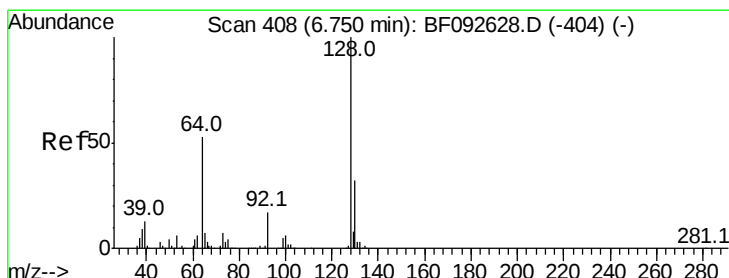
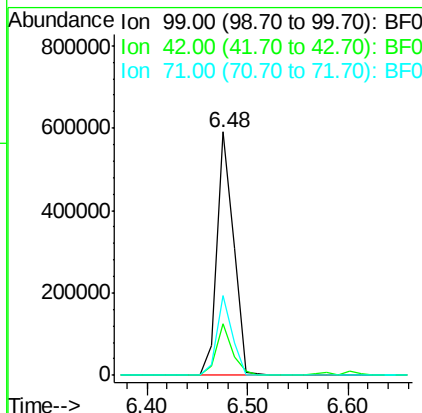
BNA\_F

ClientSampleId :

P-5MSD

Manual Integrations  
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#8

2-Chlorophenol

Concen: 2.17 ng

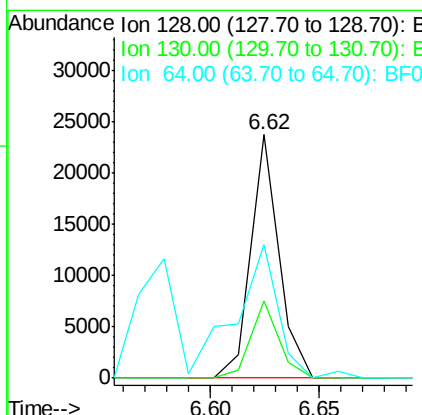
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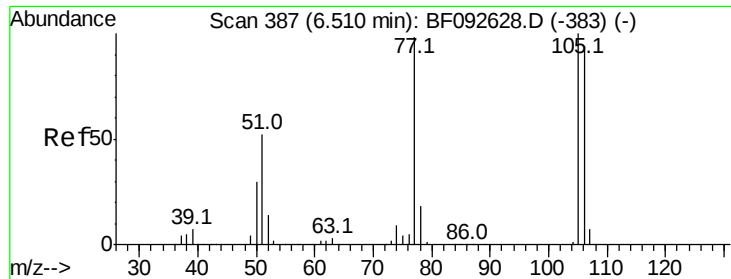
Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 21294 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 130       | 31.7  | 12.3  | 52.3  |
| 64        | 55.0  | 32.2  | 72.2  |





#9

Benzaldehyde

Concen: 17.46 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

ClientSampleId :

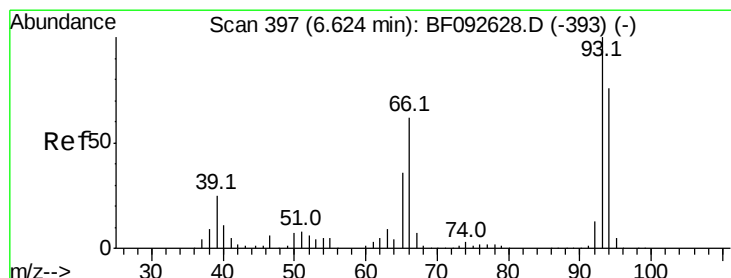
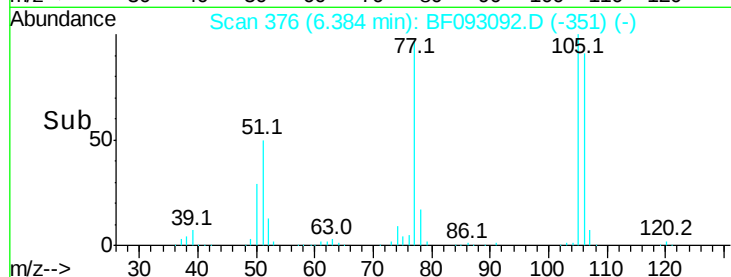
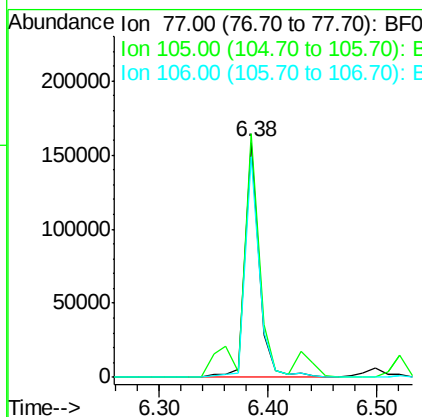
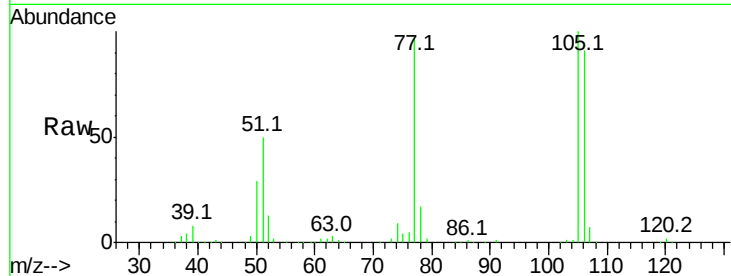
P-5MSD

Tot Ion: 77 Resp: 143501

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 105 | 103.5 | 83.9  | 123.9 |
| 106 | 93.9  | 77.6  | 117.6 |

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#10

Phenol

Concen: 19.27 ng

RT: 6.49 min Scan# 385

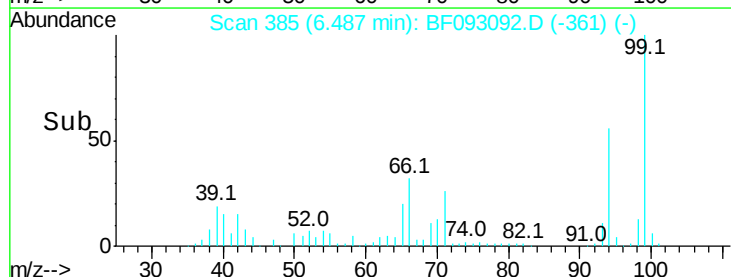
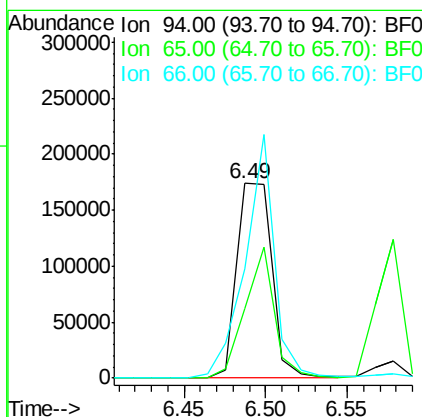
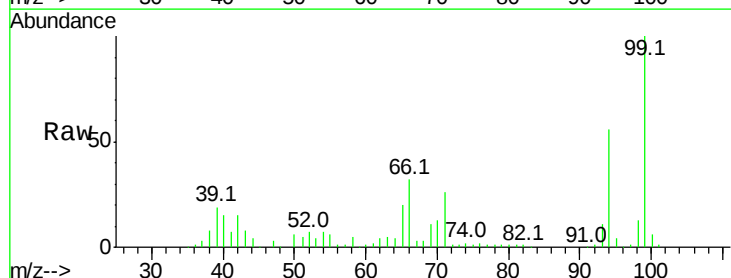
Delta R.T. -0.02 min

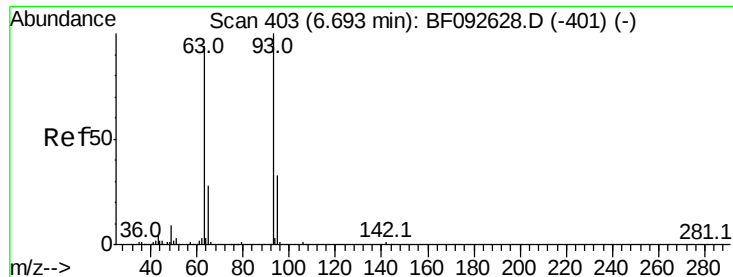
Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Tgt Ion: 94 Resp: 258557

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 35.9  | 21.4  | 61.4  |
| 66  | 56.2  | 44.0  | 84.0  |





#11

bis(2-Chloroethyl)ether

Concen: 47.73 ng

RT: 6.58 min Scan# 393

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

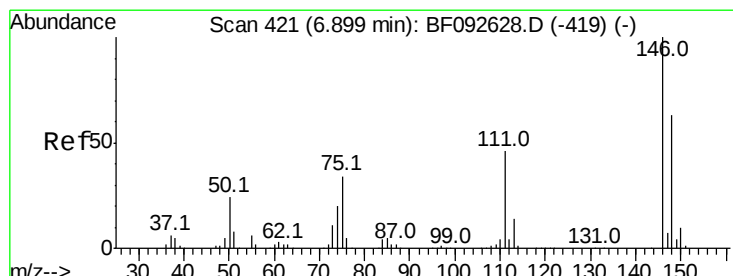
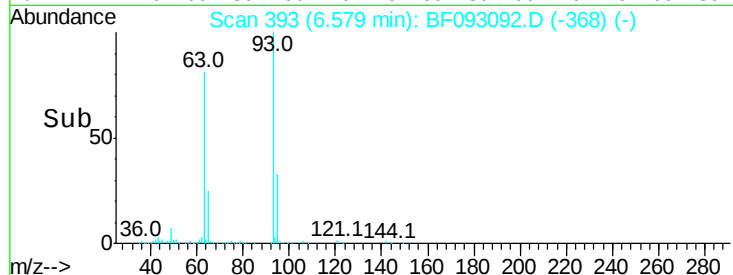
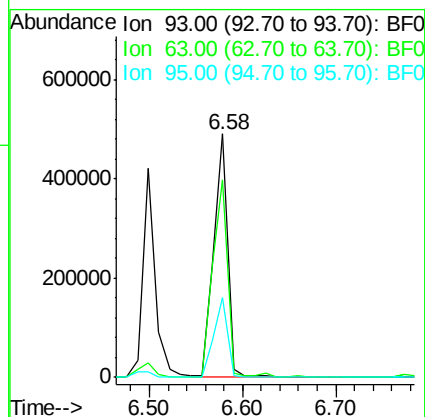
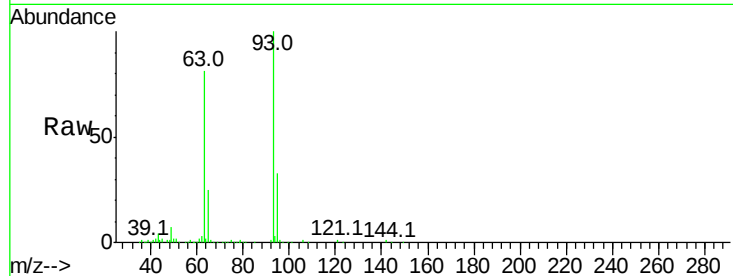
ClientSampleId :

P-5MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 93    | Resp: | 511218 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 80.9  | 60.4  | 100.4  |
| 95        | 33.0  | 12.8  | 52.8   |

Manual Integrations  
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#12

1,3-Dichlorobenzene

Concen: 45.23 ng

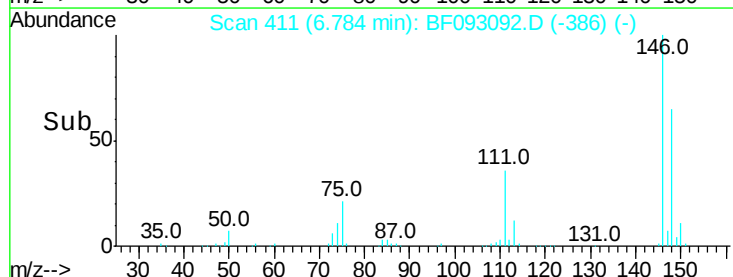
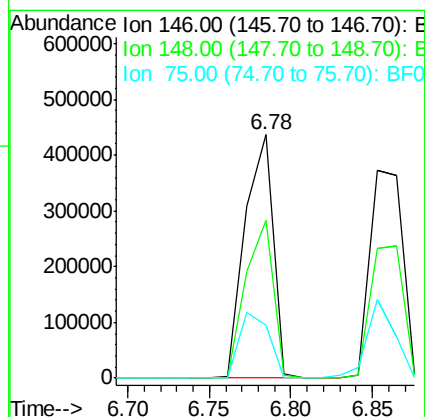
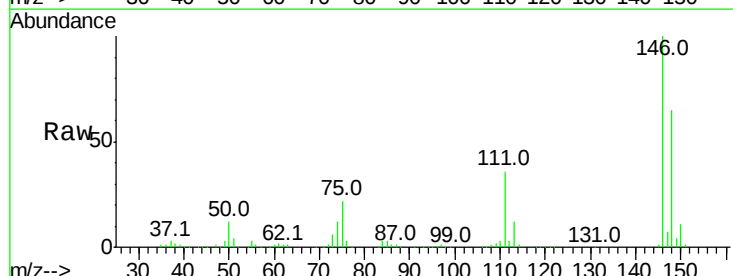
RT: 6.78 min Scan# 411

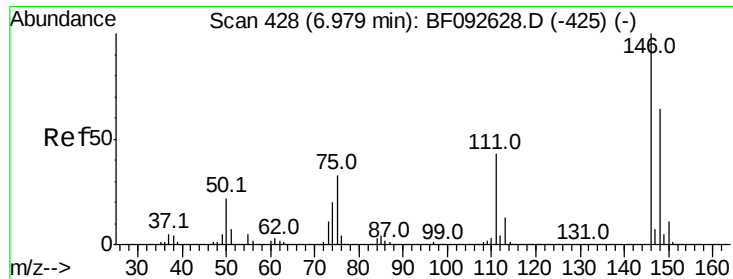
Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 521010 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 64.6  | 53.4  | 80.0   |
| 75        | 21.6  | 18.5  | 27.7   |





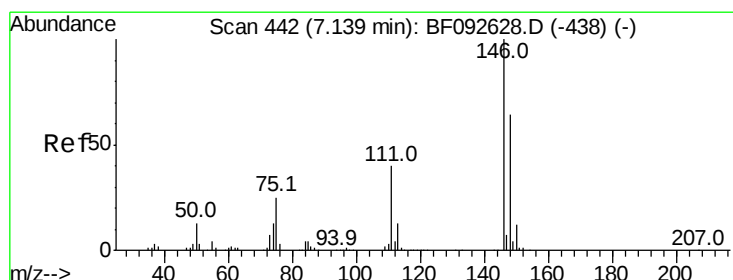
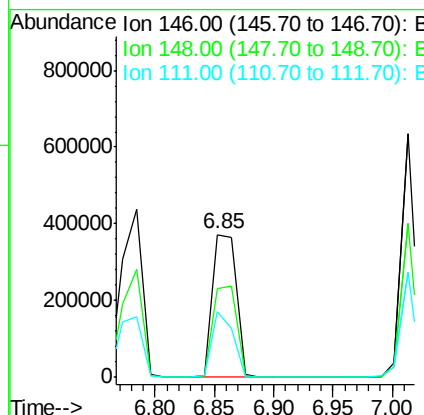
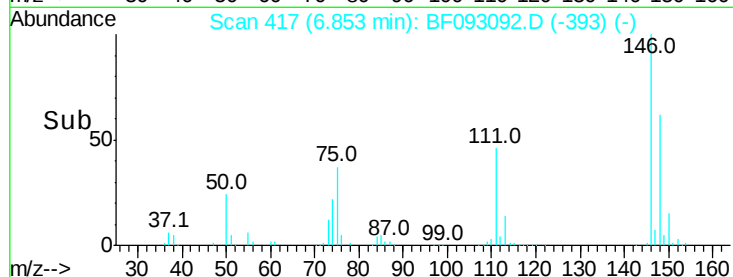
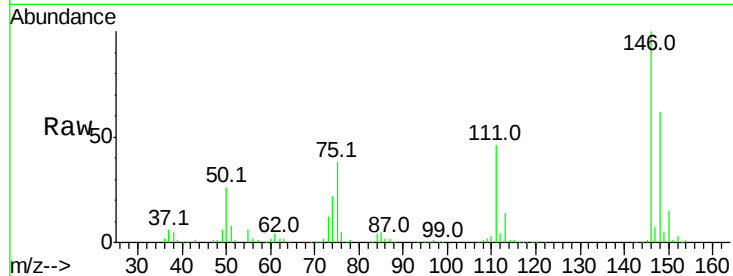
#13  
 1,4-Dichlorobenzene  
 Concen: 44.38 ng  
 RT: 6.85 min Scan# 417  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampled :  
 P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.3  | 50.6  | 76.0  |
| 111     | 46.4  | 36.2  | 54.4  |

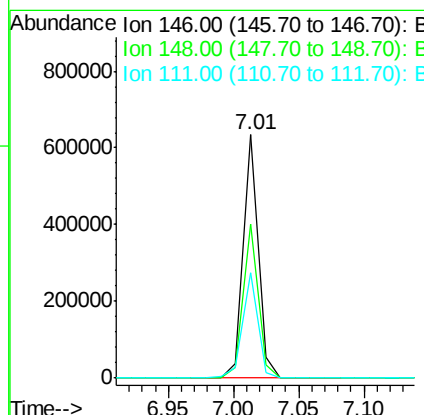
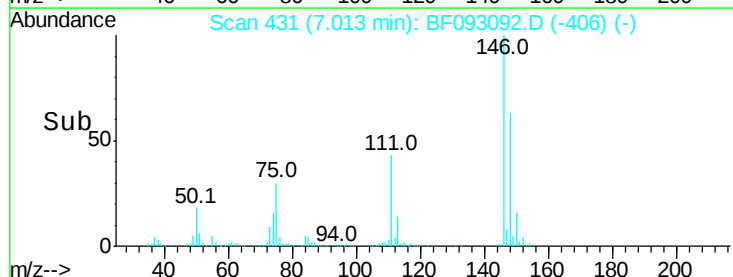
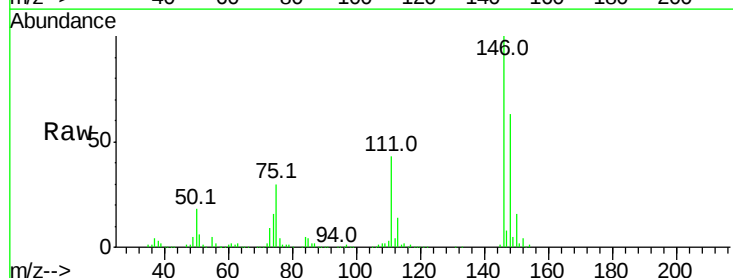
Manual Integrations  
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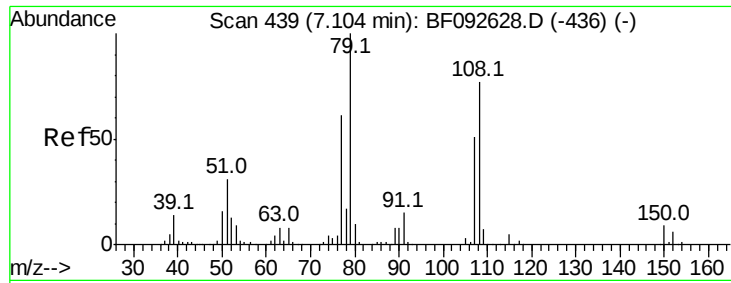
mohammad  
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#14  
 1,2-Dichlorobenzene  
 Concen: 45.03 ng  
 RT: 7.01 min Scan# 431  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.0  | 52.2  | 78.2  |
| 111     | 43.4  | 36.2  | 54.2  |





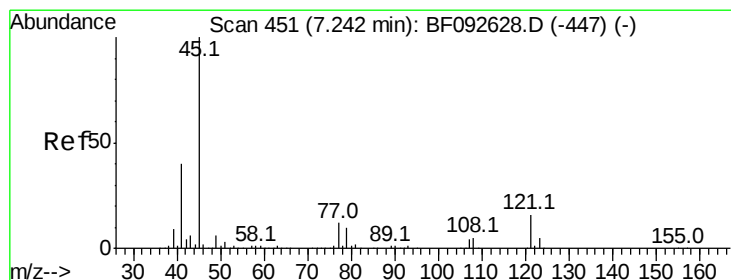
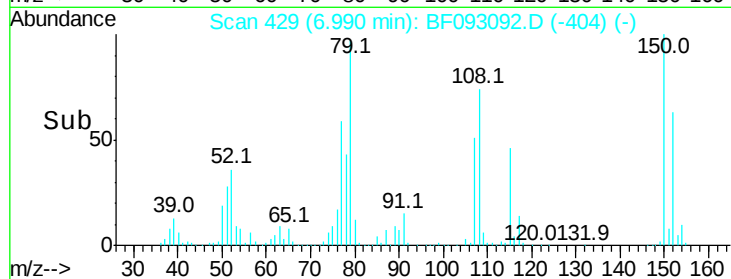
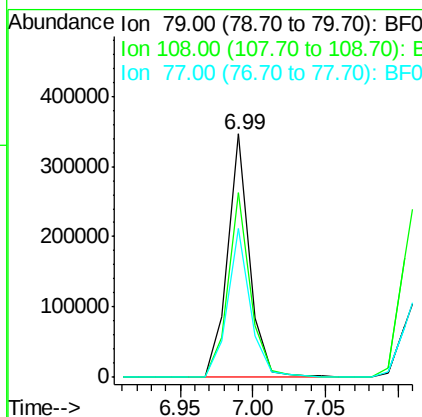
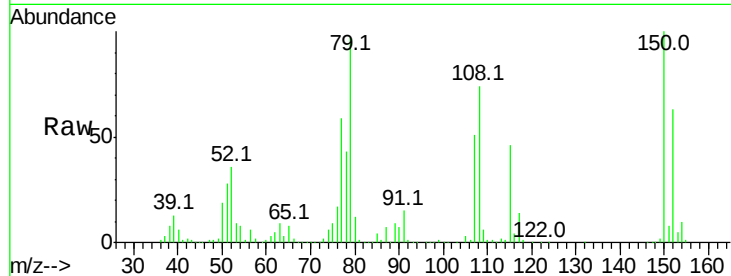
#15  
Benzyl Alcohol  
Concen: 43.25 ng  
RT: 6.99 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampled :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 75.7  | 61.4  | 92.0  |
| 77      | 60.9  | 50.9  | 76.3  |

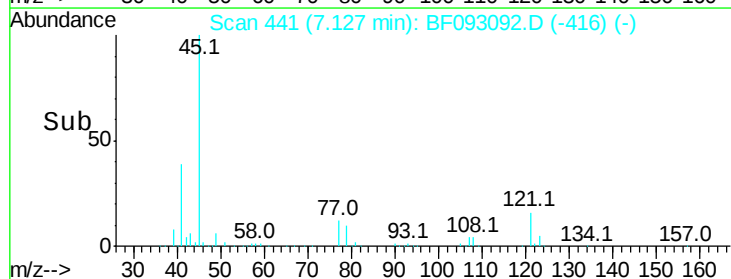
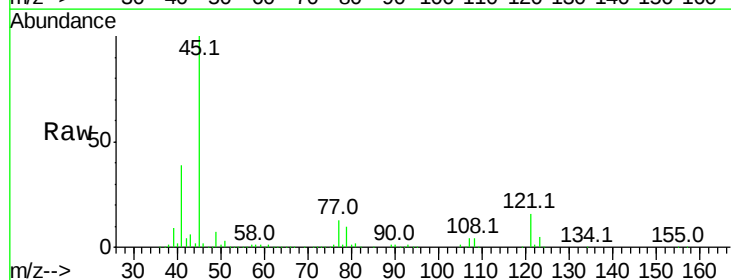
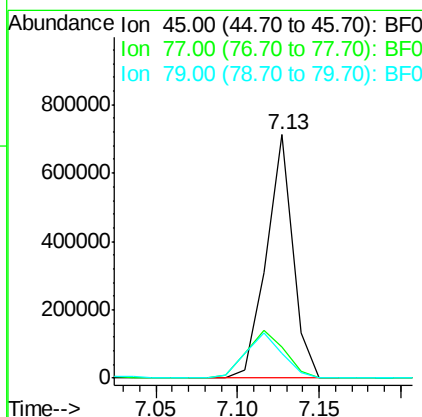
Manual Integrations  
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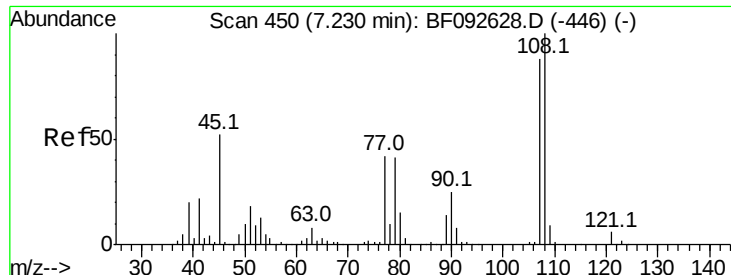
mohammad  
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#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 43.56 ng  
RT: 7.13 min Scan# 441  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 12.8  | 0.0   | 34.6  |
| 79      | 10.3  | 0.0   | 31.2  |





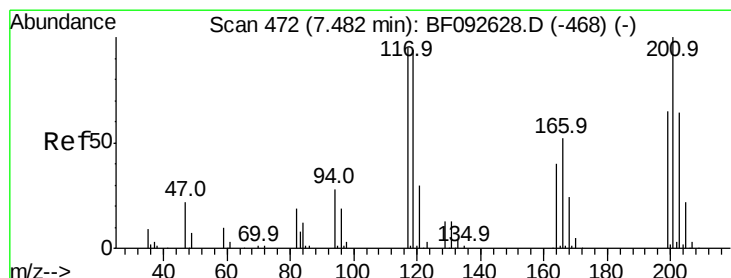
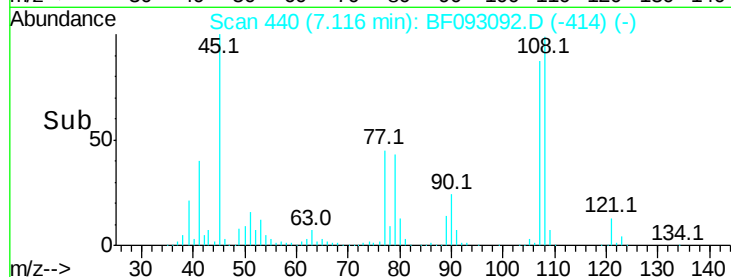
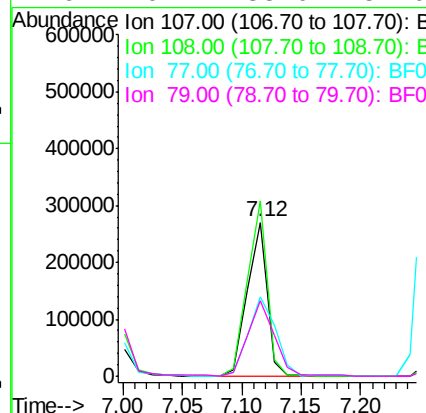
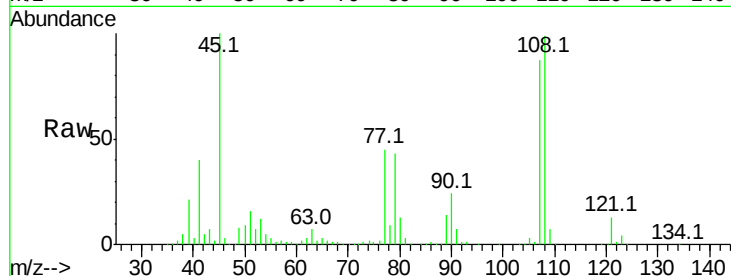
#17  
2-Methylphenol  
Concen: 37.87 ng  
RT: 7.12 min Scan# 440  
Delta R.T. -0.00 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampled :  
P-5MSD

| Tot Ion | 107   | Resp  | 319449 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 107     | 100   |       |        |
| 108     | 113.5 | 93.0  | 139.6  |
| 77      | 51.6  | 39.8  | 59.8   |
| 79      | 49.4  | 38.0  | 57.0   |

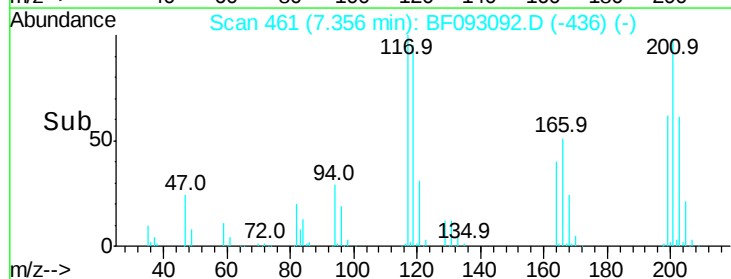
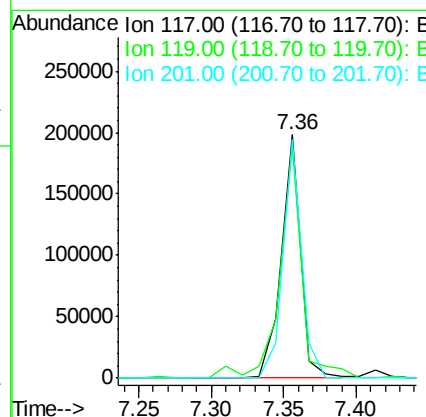
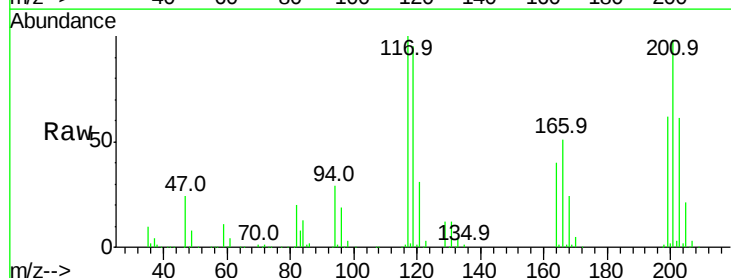
Manual Integrations  
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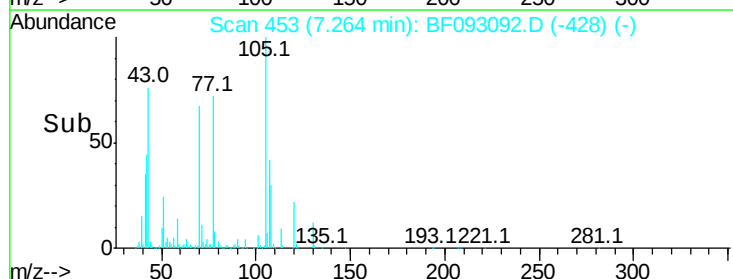
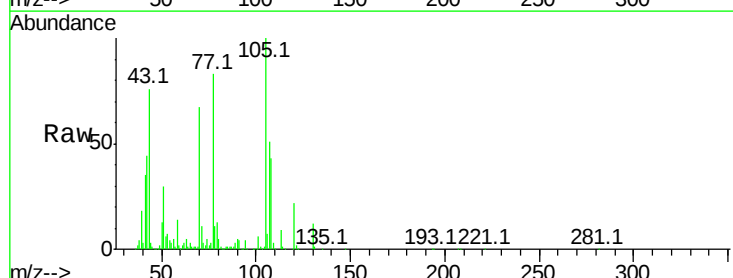
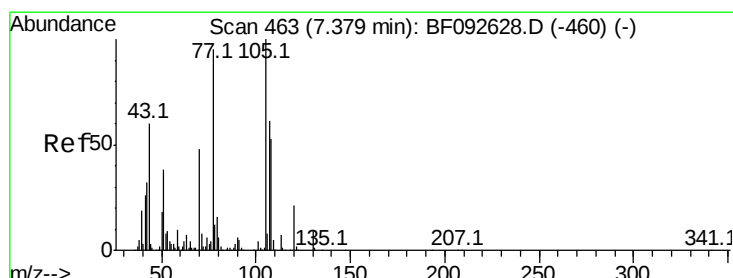
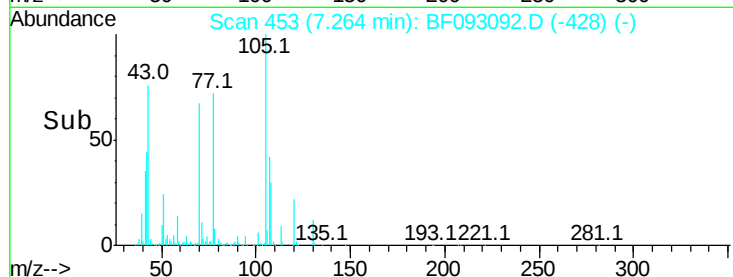
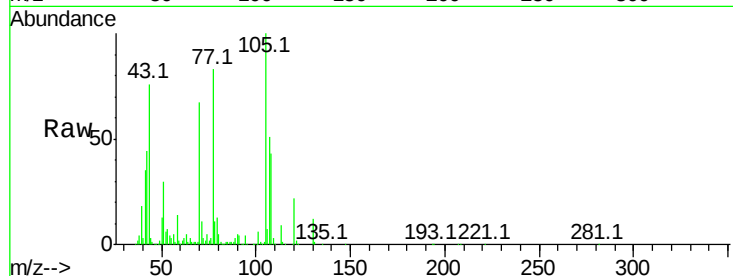
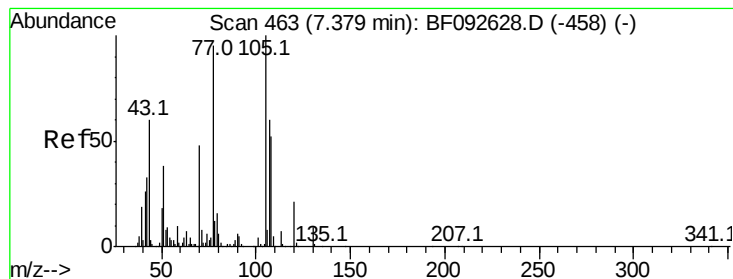
mohammad  
2/23/2017 1:16:18 PM



#18  
Hexachloroethane  
Concen: 45.97 ng  
RT: 7.36 min Scan# 461  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | 117   | Resp  | 182937 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 117     | 100   |       |        |
| 119     | 95.4  | 78.1  | 117.1  |
| 201     | 97.8  | 78.6  | 117.8  |





#19

n-Nitroso-di-n-propylamine

Concen: 46.32 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

ClientSampleId :

P-5MSD

Tot Ion: 70 Resp: 338193

Ion Ratio Lower Upper

70 100

42 65.9 49.4 74.0

101 8.8 7.4 11.2

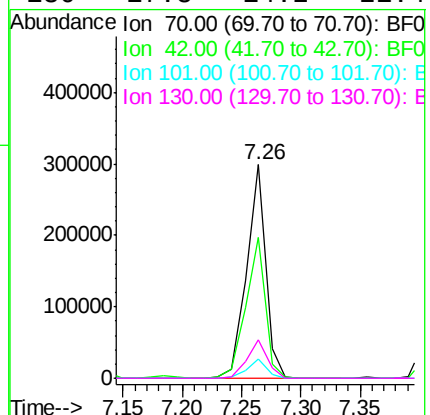
130 17.8 14.2 21.4

Manual Integrations

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#20

3+4-Methylphenols

Concen: 29.73 ng

RT: 7.26 min Scan# 453

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Tgt Ion: 107 Resp: 299904

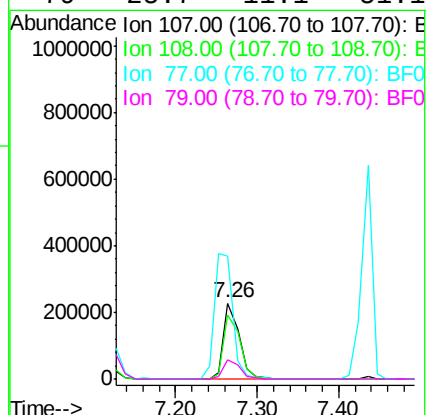
Ion Ratio Lower Upper

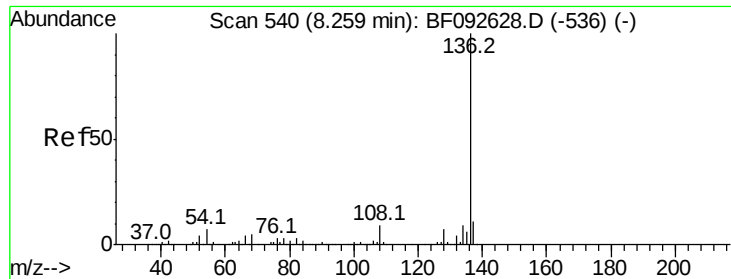
107 100

108 84.5 73.0 113.0

77 162.0 71.3 111.3#

79 25.7 11.1 51.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 529

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

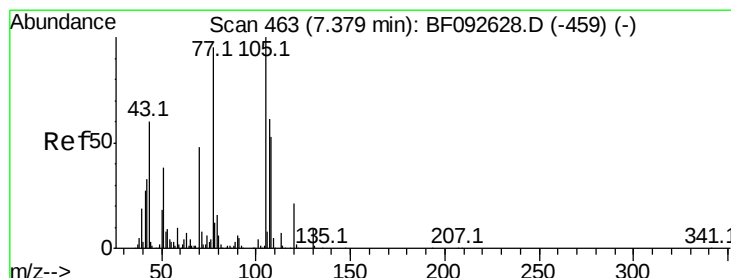
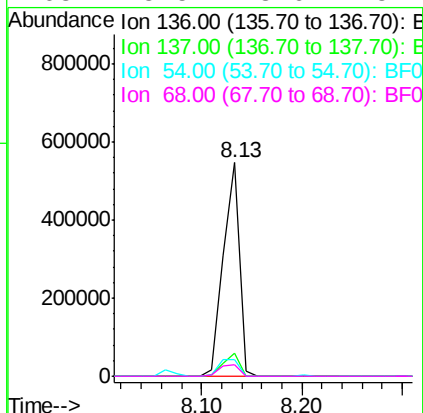
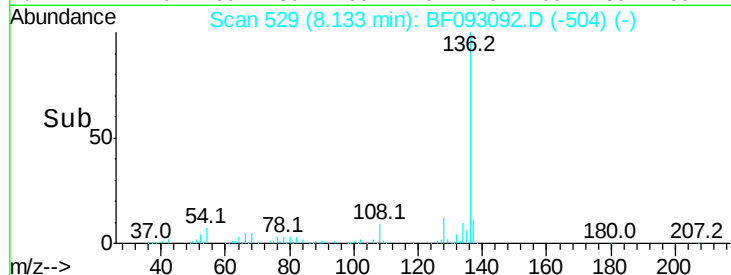
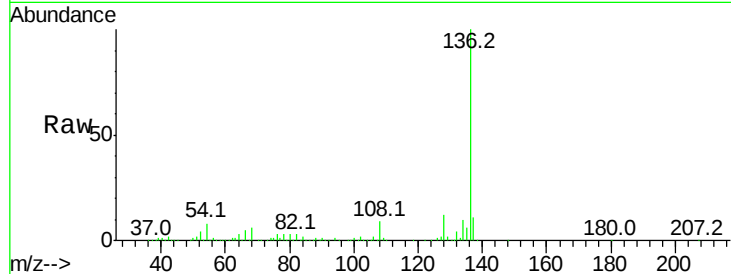
ClientSampleId :

P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 608181 |       |       |
| 137     | 10.6  | 8.4    | 12.6  |       |
| 54      | 7.6   | 4.5    | 6.7#  |       |
| 68      | 5.5   | 3.6    | 5.4#  |       |

Manual Integrations  
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#22

Acetophenone

Concen: 47.75 ng

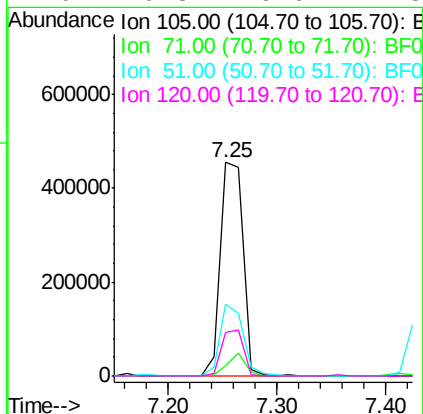
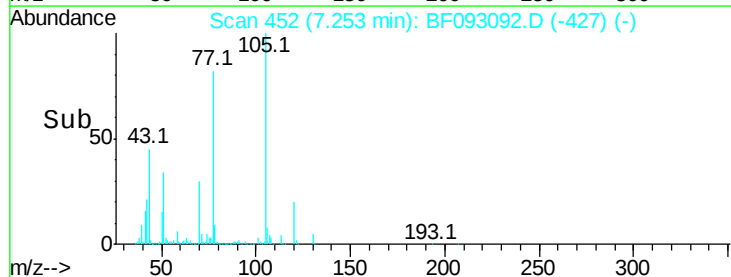
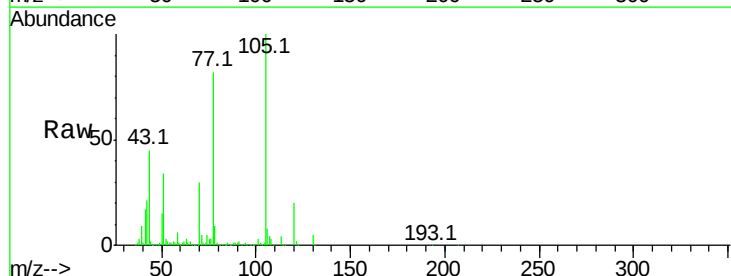
RT: 7.25 min Scan# 452

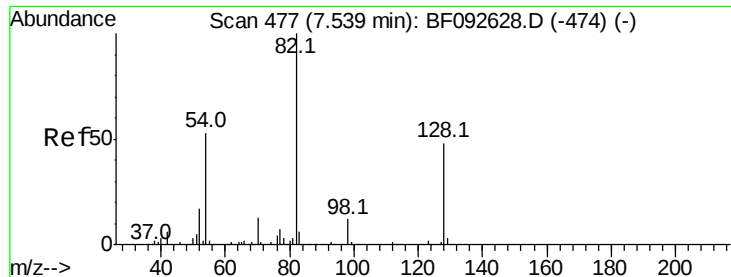
Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 663032 |       |       |
| 71      | 5.1   | 3.2    | 4.8#  |       |
| 51      | 33.6  | 26.2   | 39.4  |       |
| 120     | 20.3  | 16.6   | 24.8  |       |





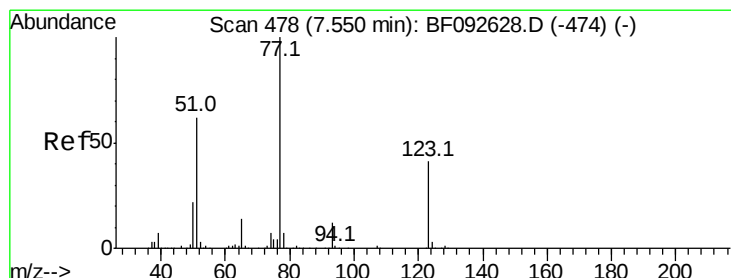
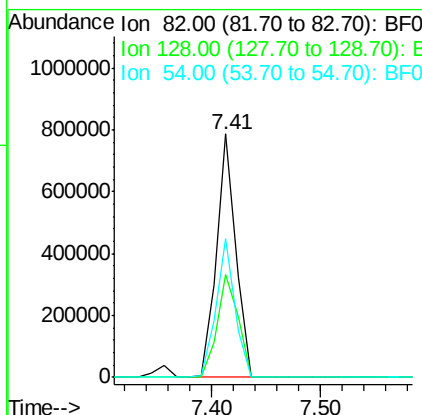
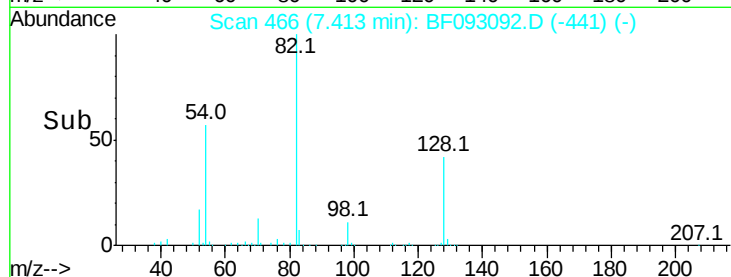
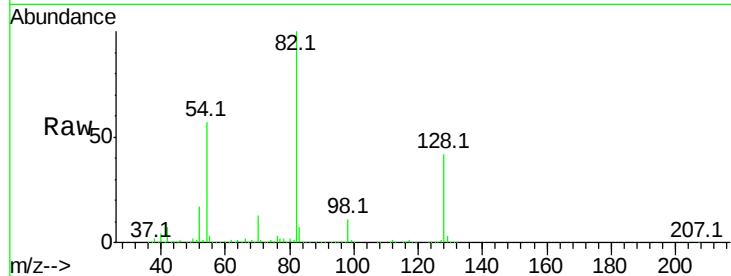
#23  
 Nitrobenzene-d5  
 Concen: 89.35 ng  
 RT: 7.41 min Scan# 466  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampled :  
 P-5MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 42.2  | 34.6 | 52.0  |       |
| 54      | 56.9  | 39.5 | 59.3  |       |

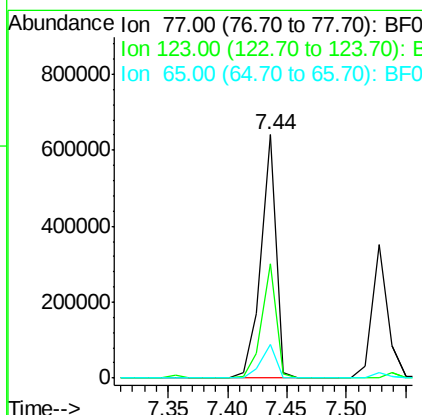
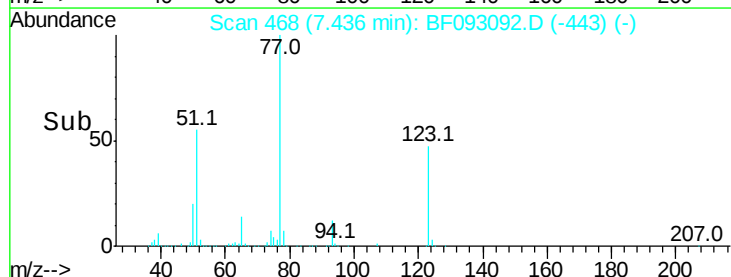
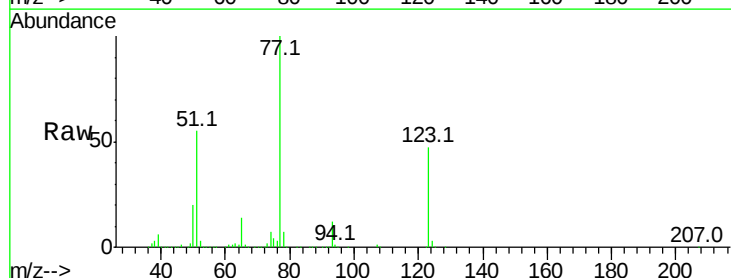
Manual Integrations  
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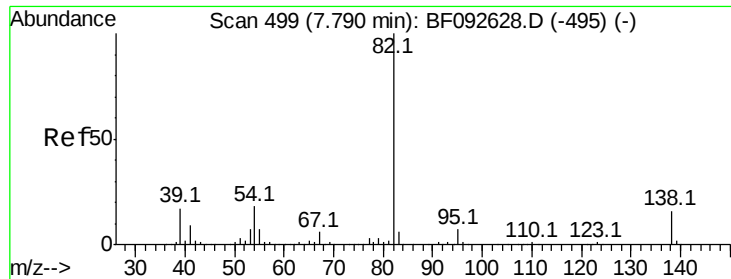
mohammad  
 2/23/2017 1:16:18 PM



#24  
 Nitrobenzene  
 Concen: 51.56 ng  
 RT: 7.44 min Scan# 468  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 77      | 100   |      |       |       |
| 123     | 46.7  | 33.0 | 49.4  |       |
| 65      | 13.7  | 11.2 | 16.8  |       |





#25

Isophorone

Concen: 48.78 ng

RT: 7.68 min Scan# 489

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

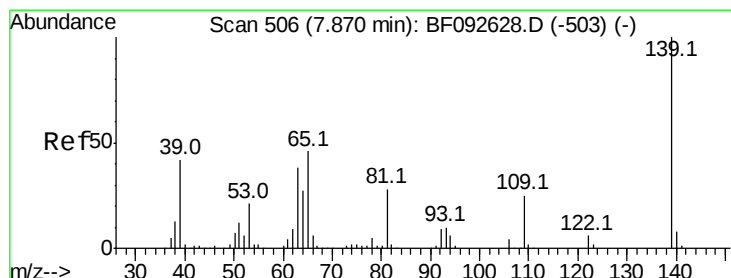
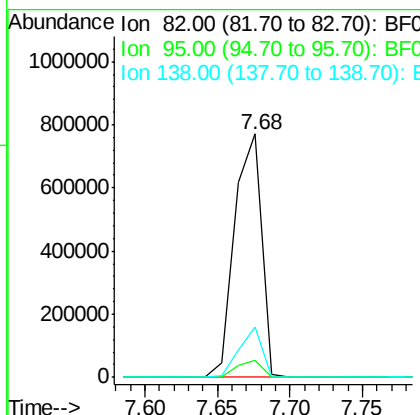
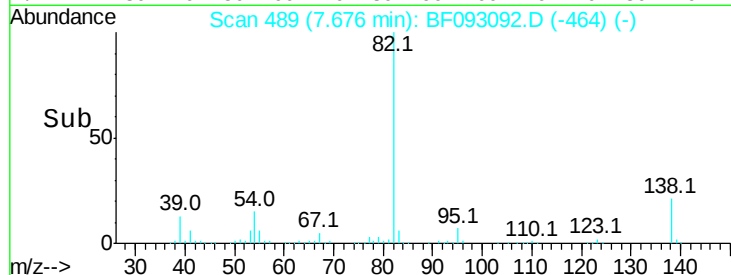
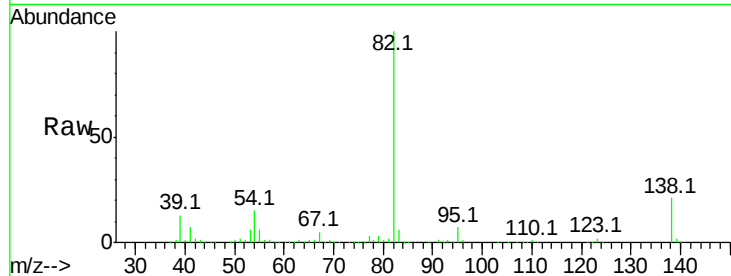
ClientSampled :

P-5MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 992643 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 6.9   | 5.6   | 8.4    |
| 138       | 20.6  | 14.6  | 22.0   |

Manual Integrations  
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#26

2-Nitrophenol

Concen: 3.15 ng

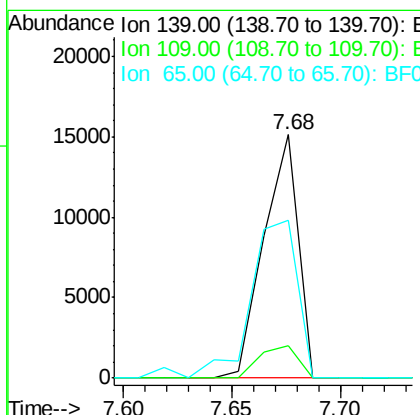
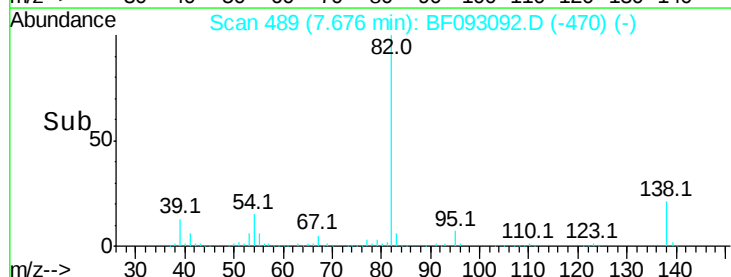
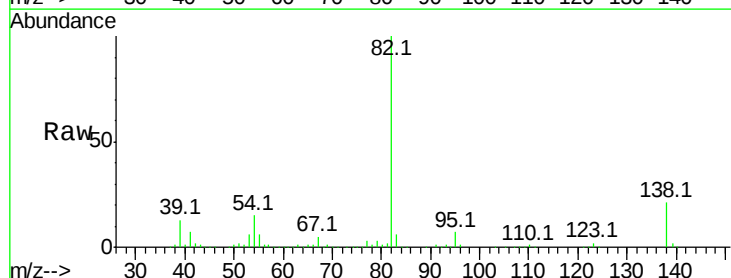
RT: 7.68 min Scan# 489

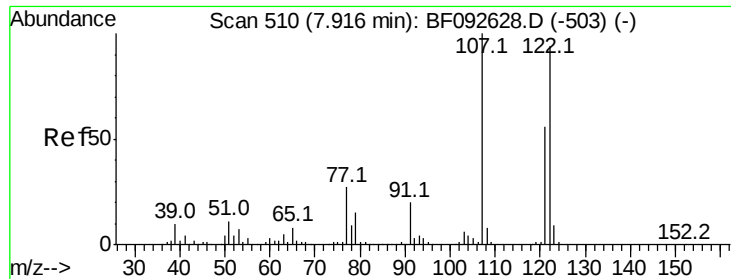
Delta R.T. -0.08 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 139   | Resp: | 16789 |
| Ion Ratio | Lower | Upper |       |
| 139       | 100   |       |       |
| 109       | 13.5  | 23.3  | 34.9# |
| 65        | 64.7  | 42.7  | 64.1# |





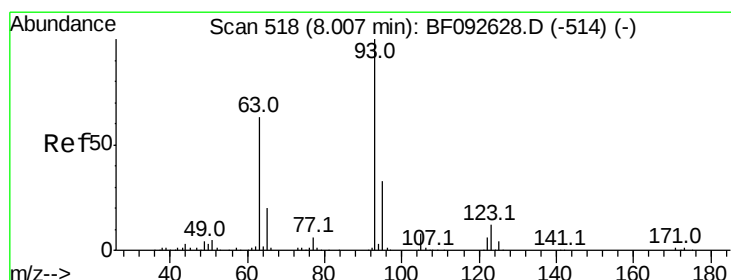
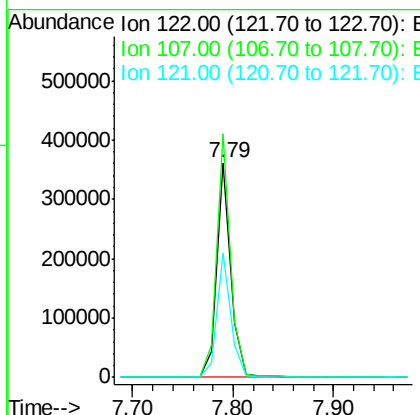
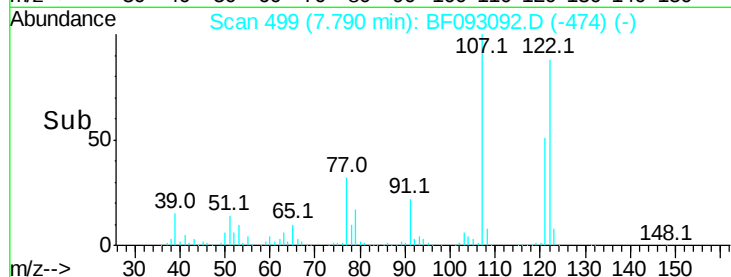
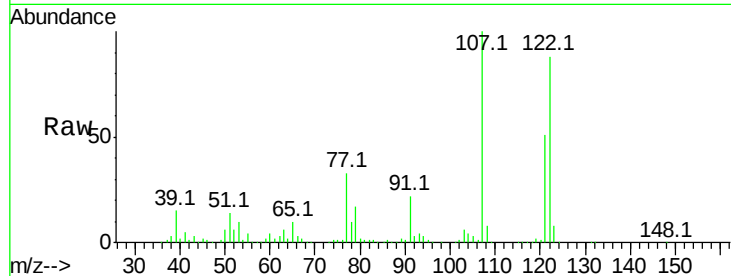
#27  
2,4-Dimethylphenol  
Concen: 37.44 ng  
RT: 7.79 min Scan# 499  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampled :  
P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 122     | 100   | 350554 |       |       |
| 107     | 113.5 | 94.1   | 141.1 |       |
| 121     | 58.3  | 46.0   | 69.0  |       |

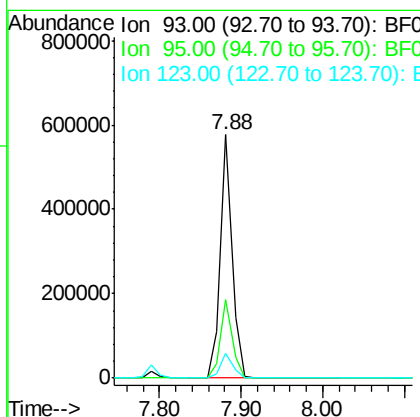
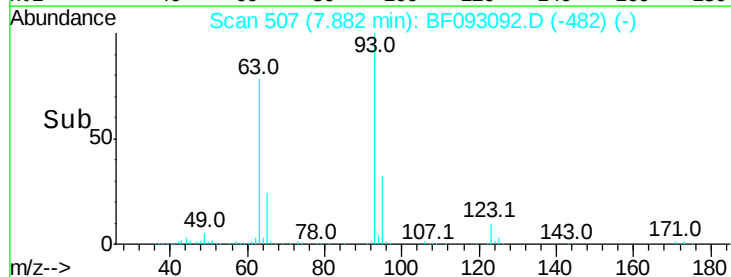
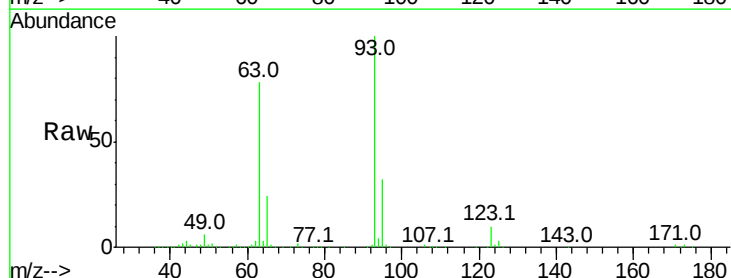
Manual Integrations  
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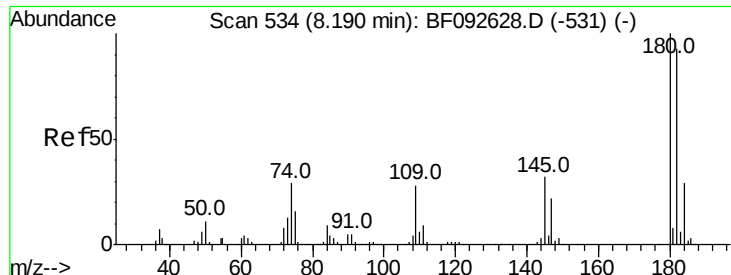
mohammad  
2/23/2017 1:16:18 PM



#28  
bis(2-Chloroethoxy)methane  
Concen: 42.79 ng  
RT: 7.88 min Scan# 507  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 93      | 100   | 576797 |       |       |
| 95      | 32.4  | 26.5   | 39.7  |       |
| 123     | 10.0  | 8.6    | 13.0  |       |





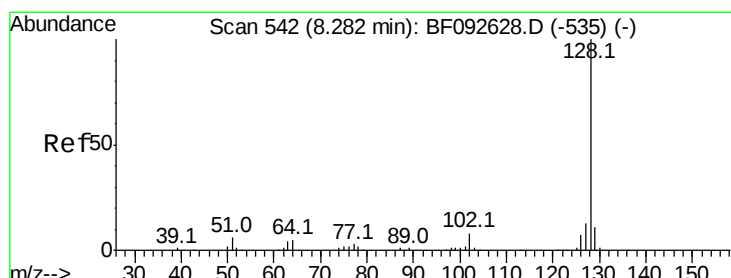
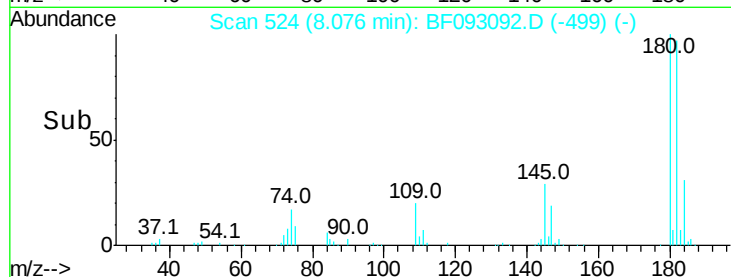
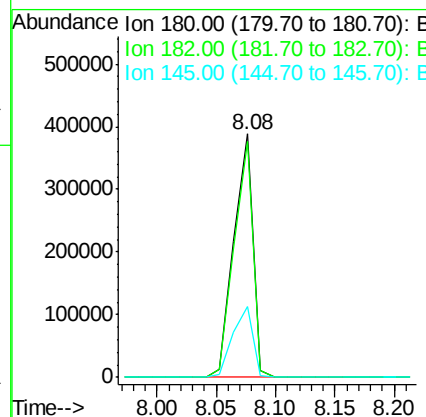
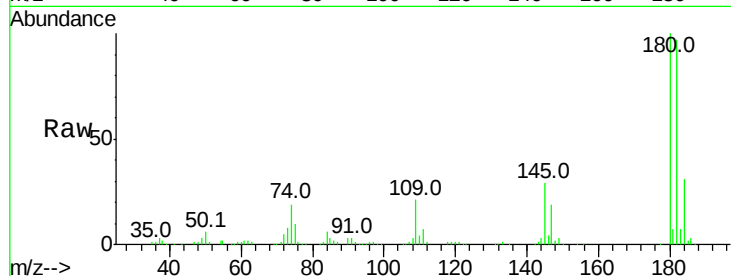
#30  
1,2,4-Trichlorobenzene  
Concen: 45.97 ng  
RT: 8.08 min Scan# 524  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.8  | 78.2  | 117.4 |
| 145     | 29.0  | 21.6  | 32.4  |

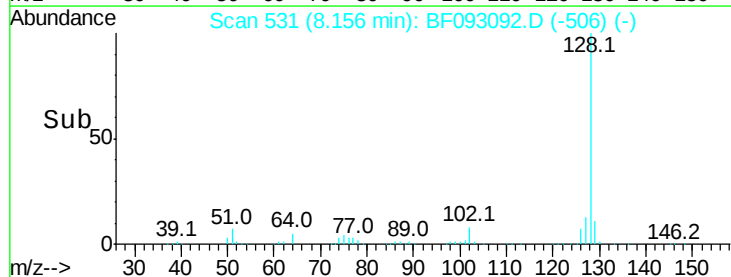
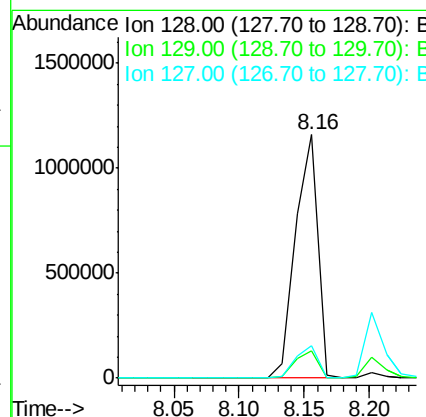
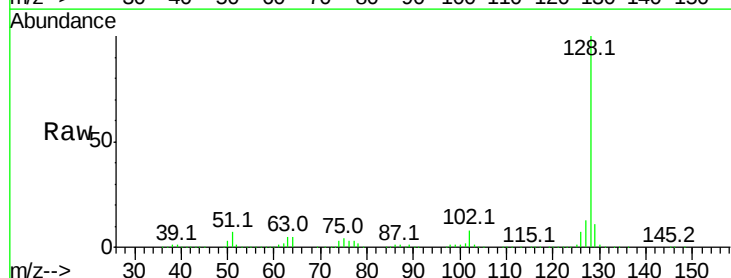
Manual Integrations  
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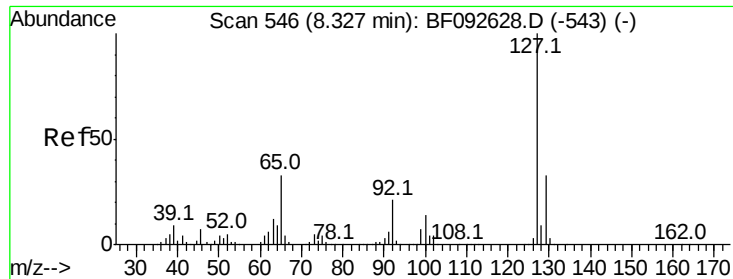
mohammad  
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#31  
Naphthalene  
Concen: 45.23 ng  
RT: 8.16 min Scan# 531  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.0  | 9.5   | 14.3  |
| 127     | 13.5  | 10.8  | 16.2  |





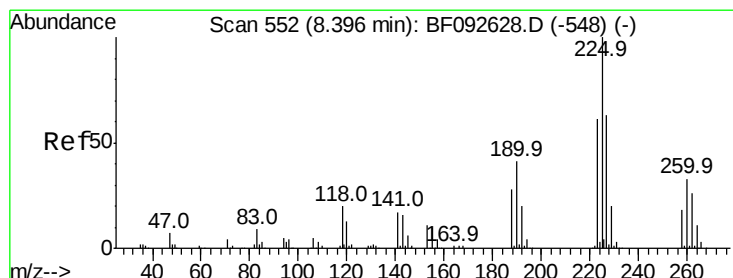
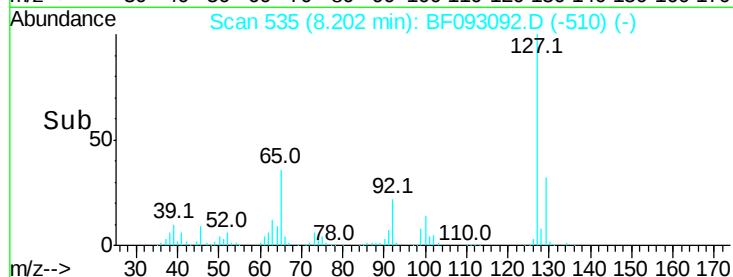
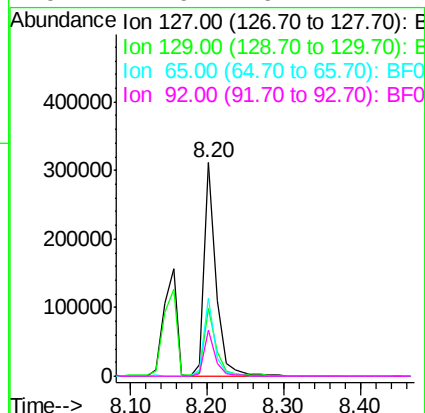
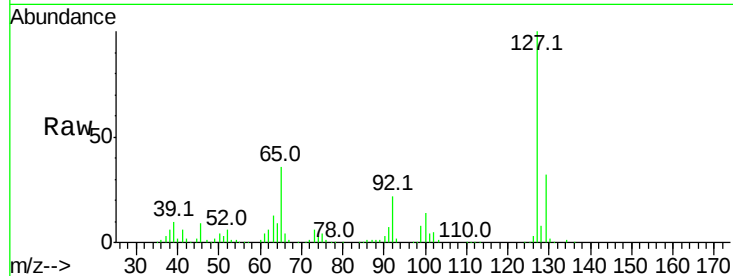
#33  
4-Chloroaniline  
Concen: 27.31 ng  
RT: 8.20 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 127     | 100   |      |       |       |
| 129     | 31.6  | 26.3 | 39.5  |       |
| 65      | 36.3  | 25.8 | 38.8  |       |
| 92      | 21.9  | 16.1 | 24.1  |       |

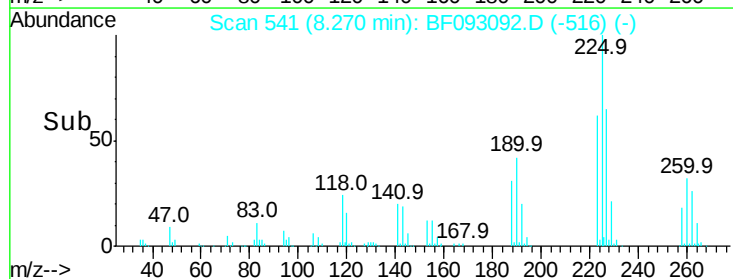
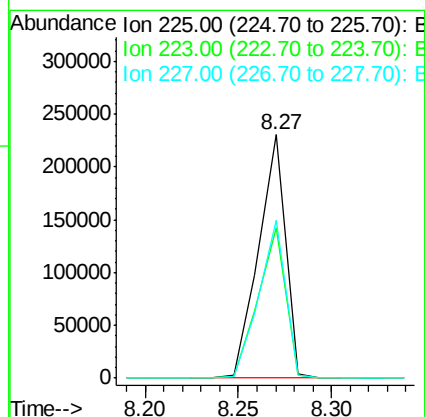
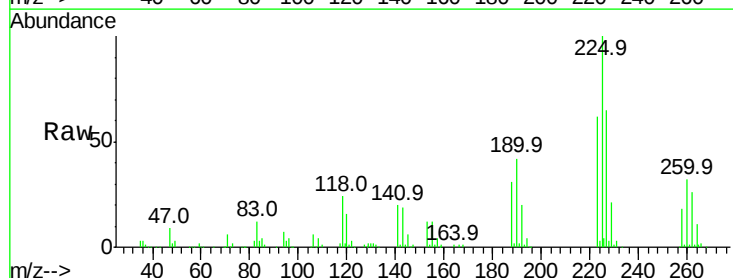
Manual Integrations  
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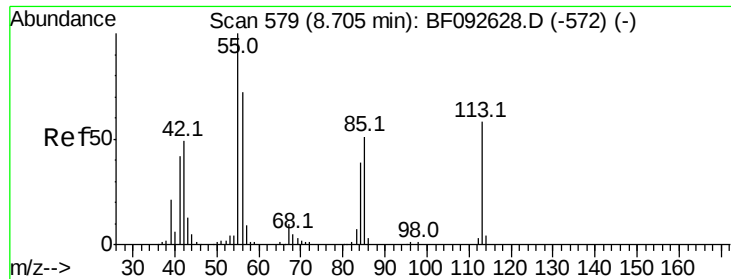
mohammad  
2/23/2017 1:16:18 PM



#34  
Hexachlorobutadiene  
Concen: 44.33 ng  
RT: 8.27 min Scan# 541  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   |      |       |       |
| 223     | 61.6  | 51.0 | 76.6  |       |
| 227     | 64.8  | 50.6 | 76.0  |       |





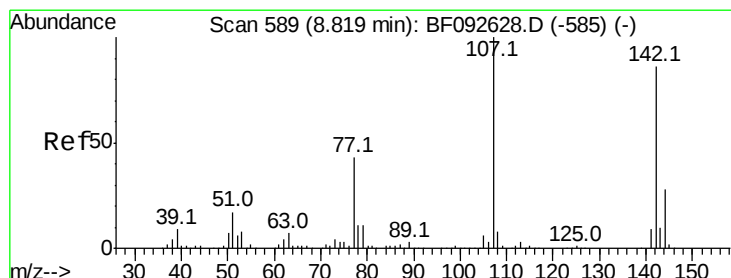
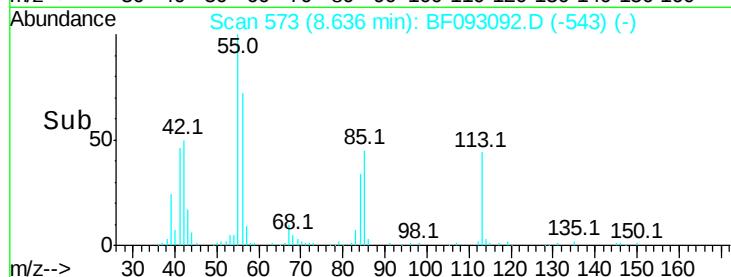
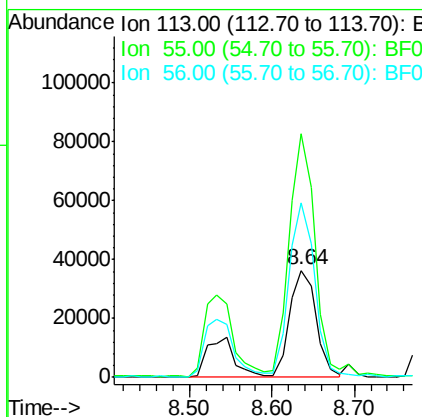
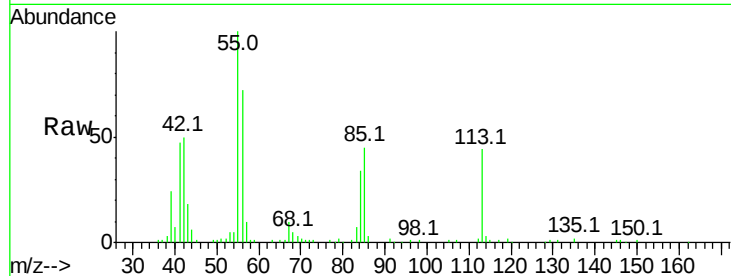
#35  
 Caprolactam  
 Concen: 40.87 ng/ml  
 RT: 8.64 min Scan# 573  
 Delta R.T. 0.05 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 55      | 227.1 | 119.2 | 159.2# |
| 56      | 162.9 | 83.8  | 123.8# |

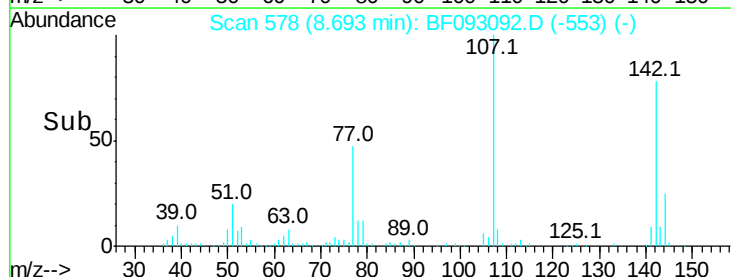
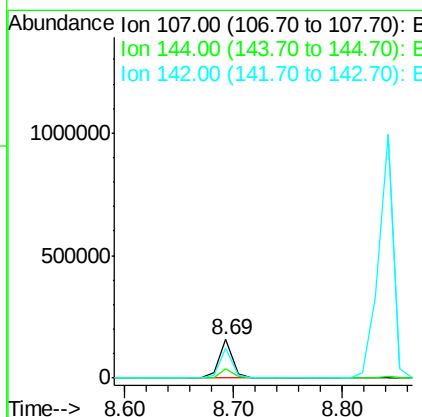
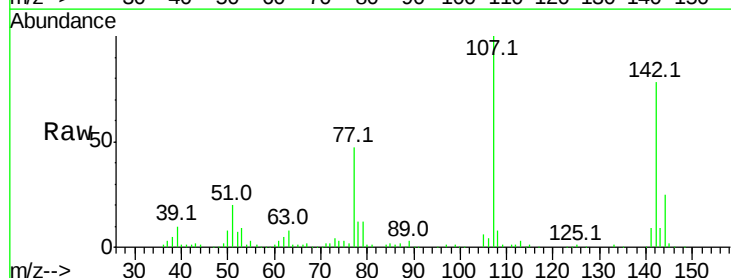
Manual Integrations  
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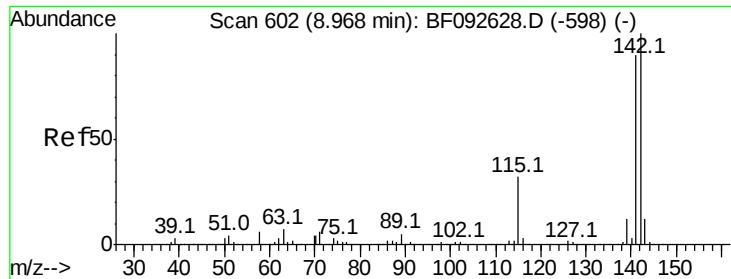
mohammad  
 2/23/2017 1:16:18 PM



#36  
 4-Chloro-3-methylphenol  
 Concen: 14.87 ng/ml  
 RT: 8.69 min Scan# 578  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 144     | 25.0  | 19.3  | 28.9  |
| 142     | 78.2  | 59.0  | 88.6  |





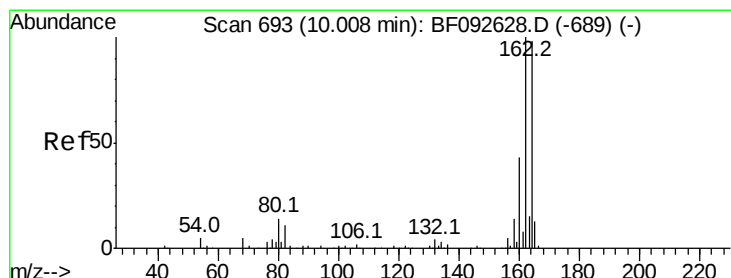
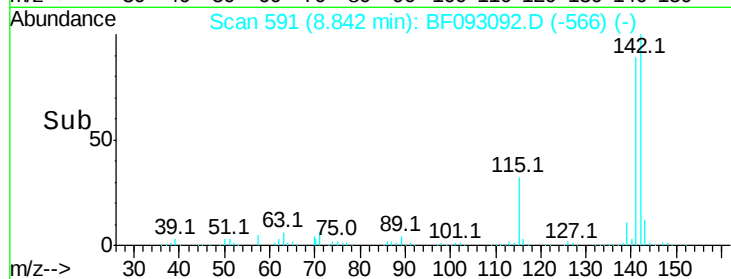
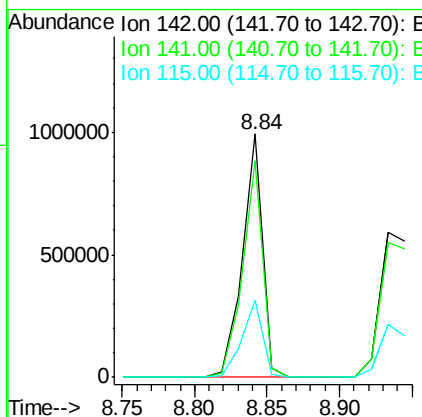
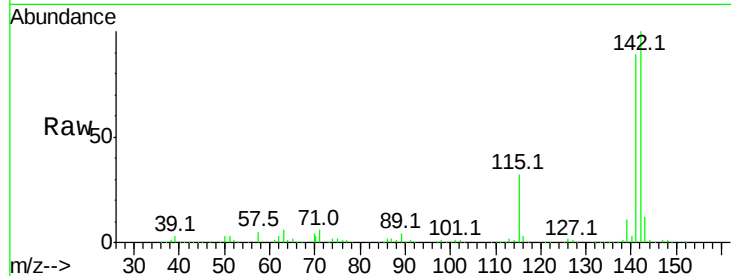
#37  
 2-Methylnaphthalene  
 Concen: 48.24 ng  
 RT: 8.84 min Scan# 591  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 71.0  | 106.6 |
| 115     | 31.9  | 28.3  | 42.5  |

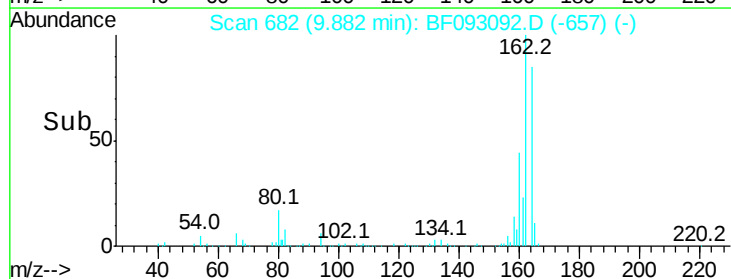
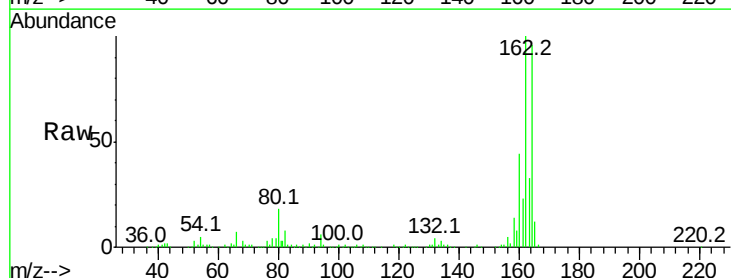
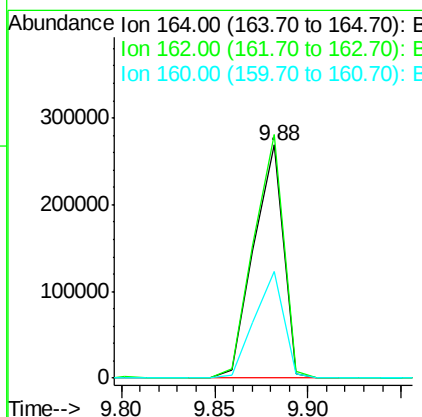
Manual Integrations  
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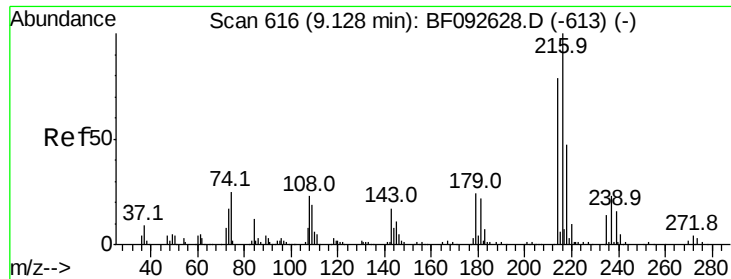
mohammad  
 2/23/2017 1:16:18 PM



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.88 min Scan# 682  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.4 | 80.2  | 120.2 |
| 160     | 45.5  | 36.9  | 55.3  |





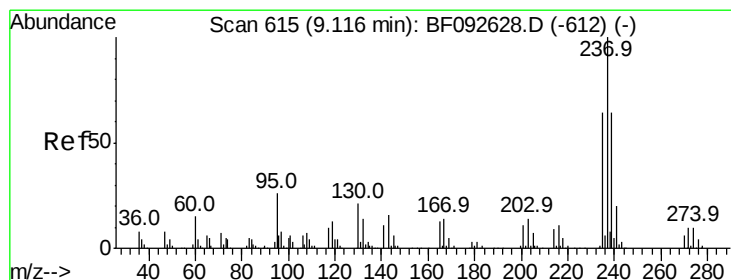
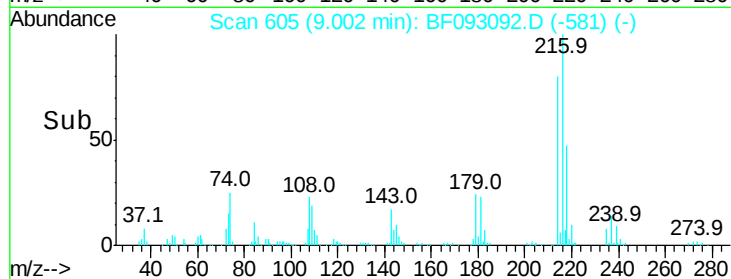
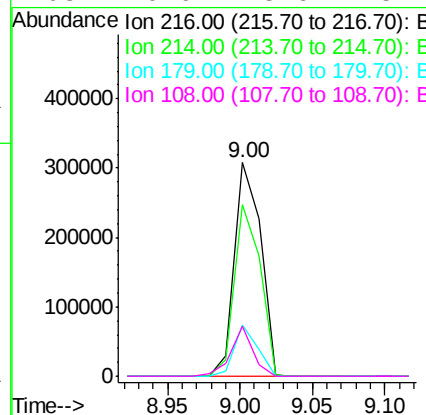
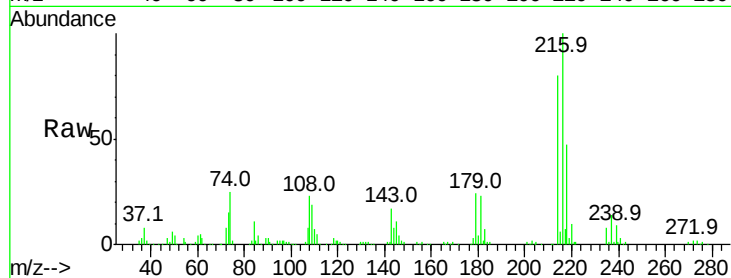
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 46.85 ng  
 RT: 9.00 min Scan# 605  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 216     | 100   | 388857 |       |       |
| 214     | 78.5  | 63.4   | 95.0  |       |
| 179     | 21.2  | 17.4   | 26.2  |       |
| 108     | 19.9  | 15.6   | 23.4  |       |

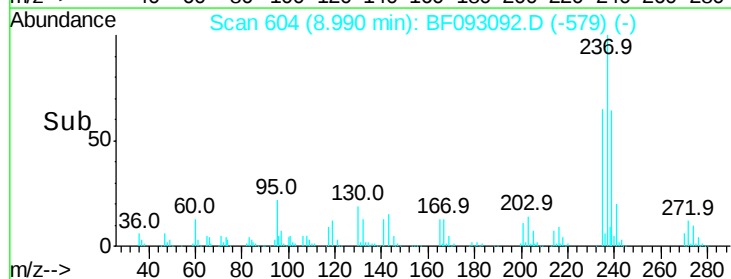
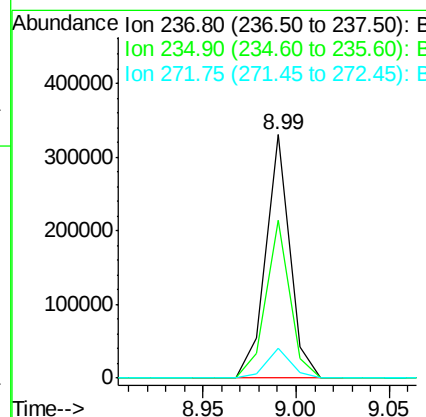
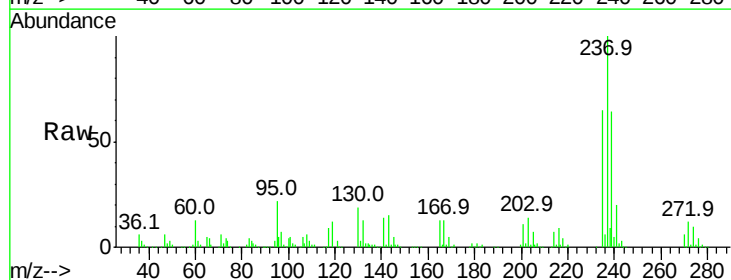
Manual Integrations  
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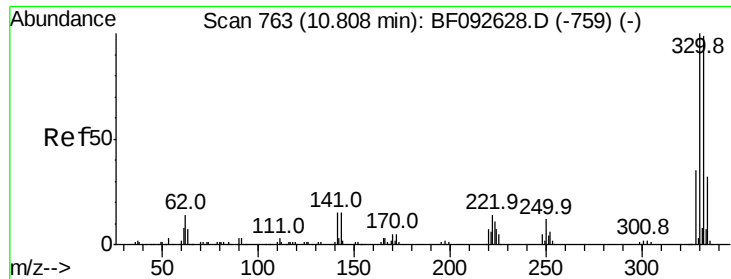
mohammad  
 2/23/2017 1:16:18 PM



#40  
 Hexachlorocyclopentadiene  
 Concen: 78.29 ng  
 RT: 8.99 min Scan# 604  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 237     | 100   | 293206 |       |       |
| 235     | 65.0  | 41.2   | 81.2  |       |
| 272     | 12.4  | 0.0    | 35.4  |       |





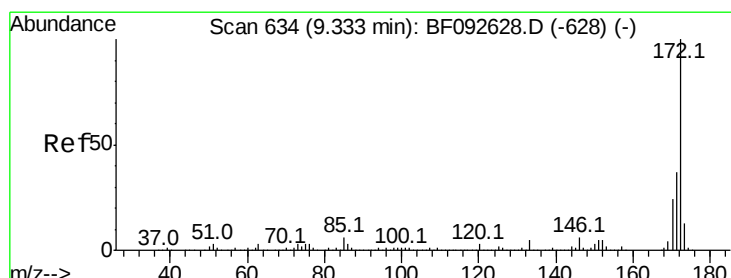
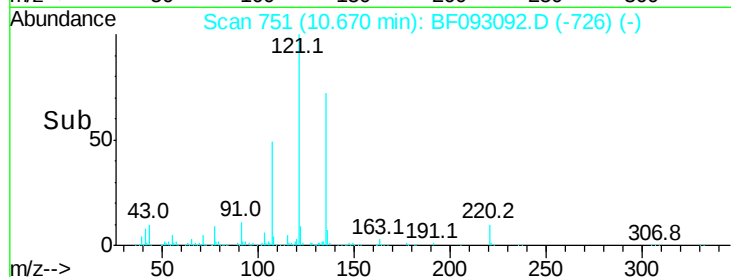
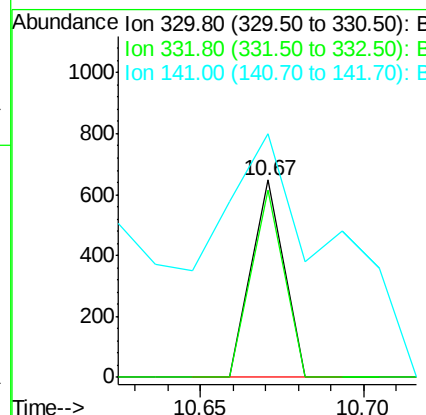
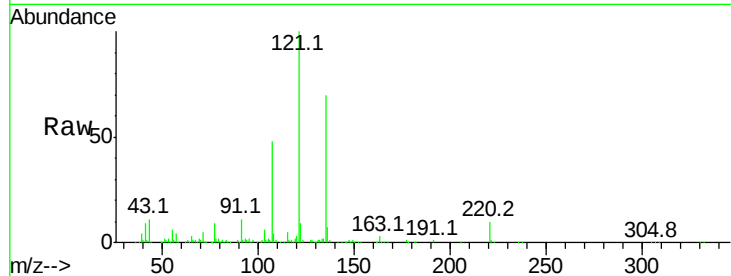
#41  
 2,4,6-Tribromophenol  
 Concen: 0.21 ng  
 RT: 10.67 min Scan# 751  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampled :  
 P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.6  | 77.4  | 116.2 |
| 141     | 0.0   | 34.1  | 51.1# |

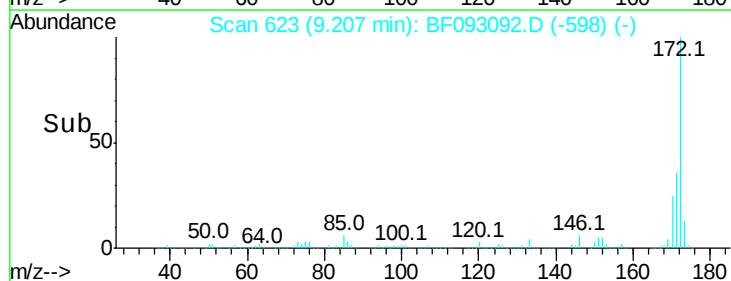
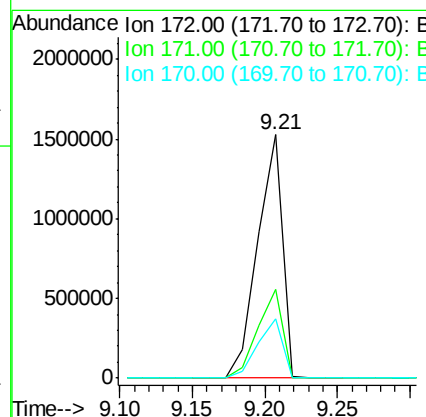
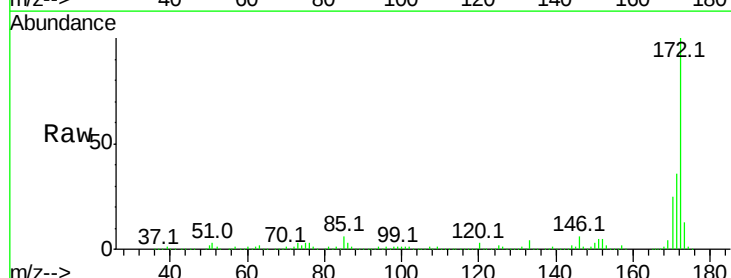
Manual Integrations  
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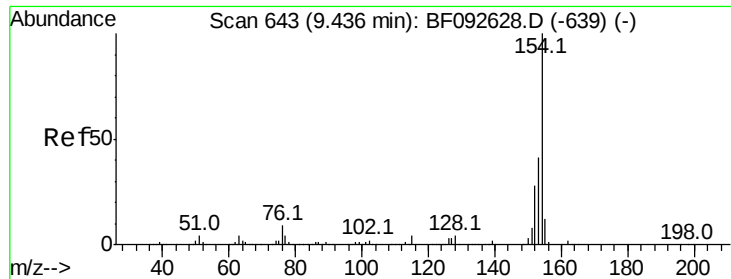
mohammad  
 2/23/2017 1:16:18 PM



#44  
 2-Fluorobiphenyl  
 Concen: 110.85 ng  
 RT: 9.21 min Scan# 623  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.4  | 44.0  |
| 170     | 24.6  | 20.2  | 30.4  |





#45

1,1'-Biphenyl

Concen: 48.29 ng

RT: 9.30 min Scan# 631

Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

ClientSampleId :

P-5MSD

Tot Ion:154 Resp: 1033986

Ion Ratio Lower Upper

154 100

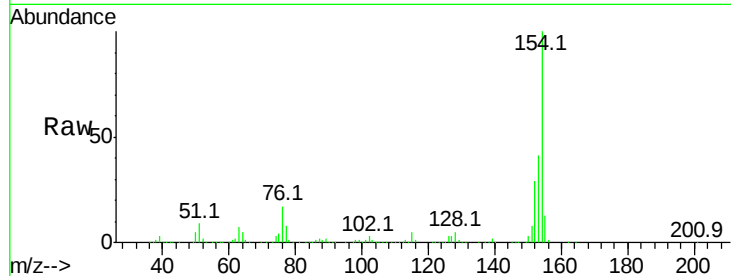
153 40.8 20.9 60.9

76 16.6 0.0 30.5

Manual Integrations  
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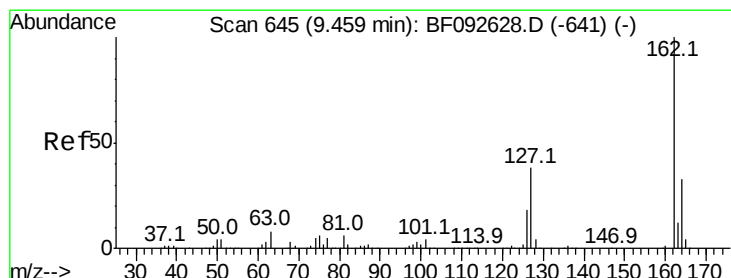
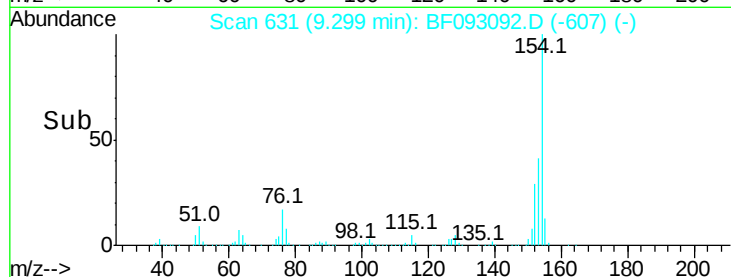
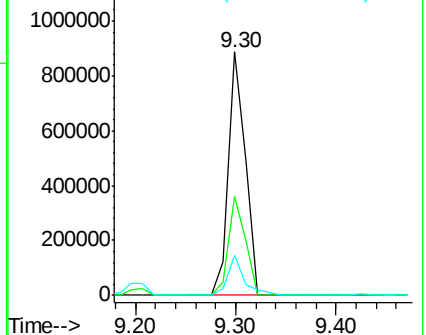
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#46

2-Chloronaphthalene

Concen: 52.73 ng

RT: 9.33 min Scan# 634

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

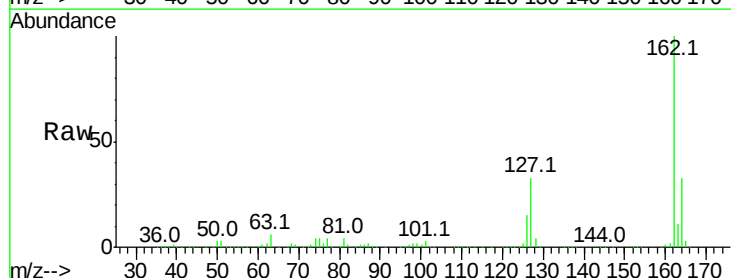
Tgt Ion:162 Resp: 883242

Ion Ratio Lower Upper

162 100

127 33.3 30.7 46.1

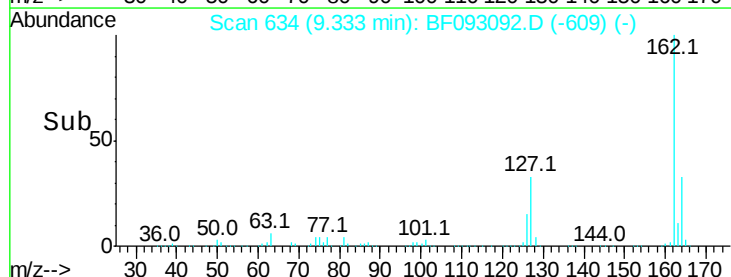
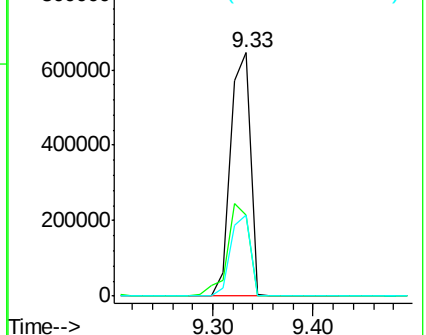
164 33.1 27.6 41.4

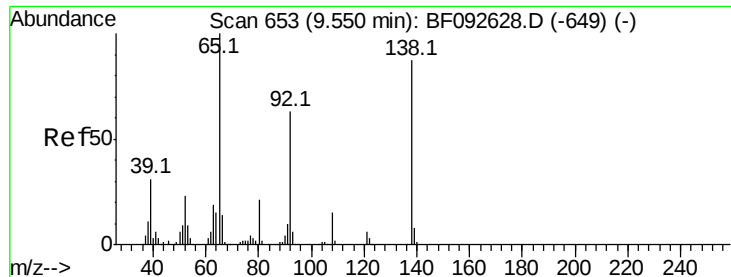


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E





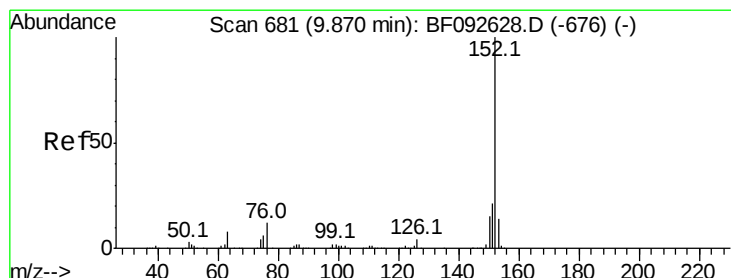
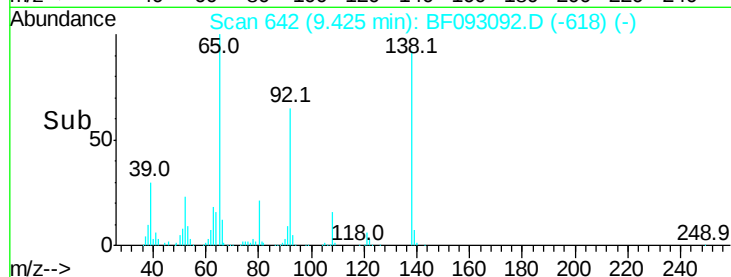
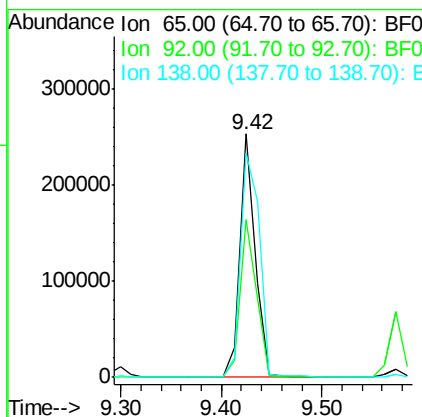
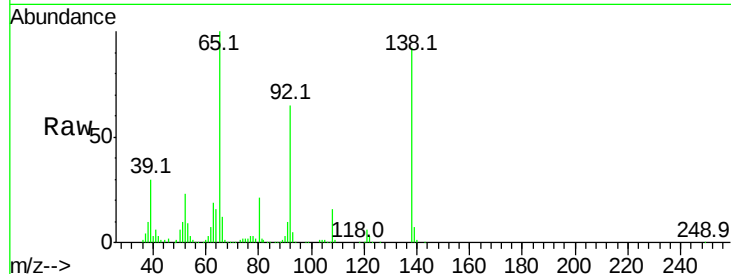
#47  
2-Nitroaniline  
Concen: 47.40 ng  
RT: 9.42 min Scan# 642  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 65.1  | 53.9  | 80.9  |
| 138     | 92.3  | 76.8  | 115.2 |

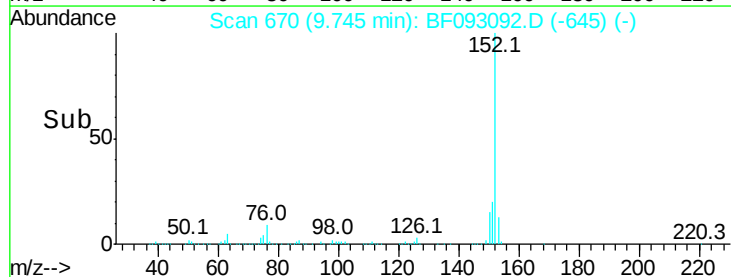
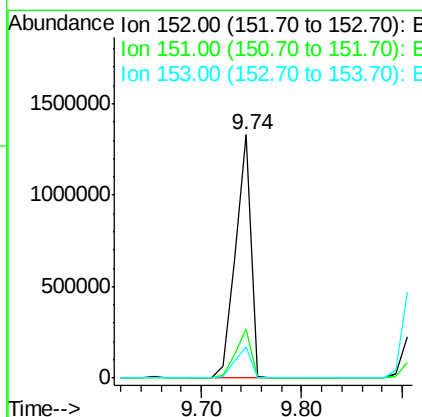
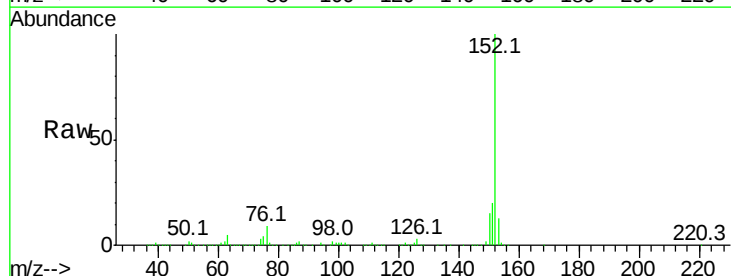
Manual Integrations  
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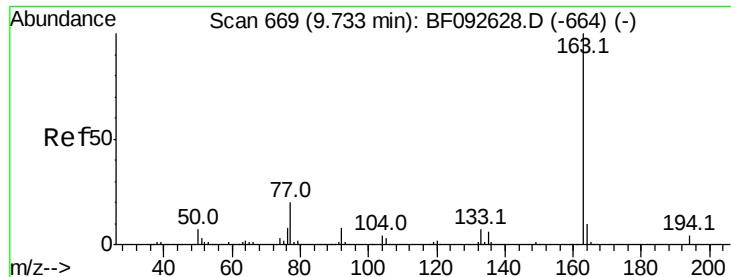
mohammad  
2/23/2017 1:16:18 PM



#48  
Acenaphthylene  
Concen: 48.92 ng  
RT: 9.74 min Scan# 670  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.3  | 16.9  | 25.3  |
| 153     | 13.0  | 11.4  | 17.2  |





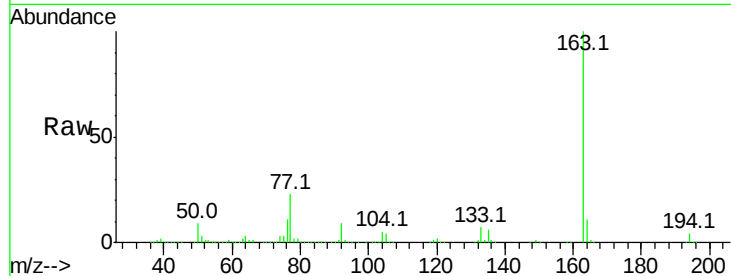
#49  
Dimethylphthalate  
Concen: 56.72 ng  
RT: 9.61 min Scan# 658  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampled :  
P-5MSD

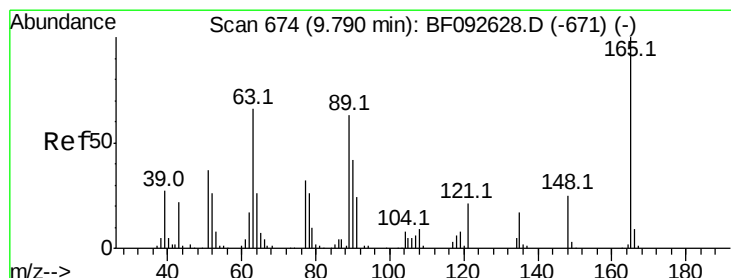
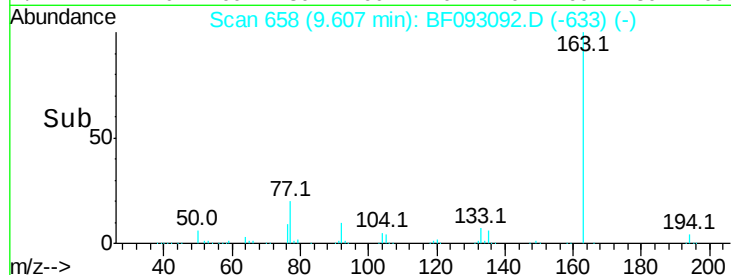
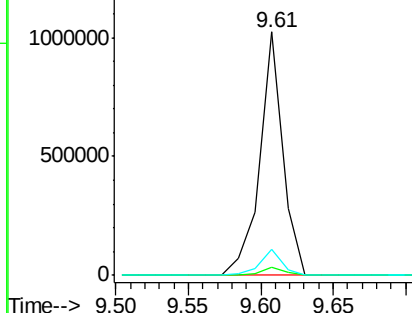
Tot Ion:163 Resp: 1129682  
Ion Ratio Lower Upper  
163 100  
194 3.5 3.0 4.4  
164 10.6 8.0 12.0

Manual Integrations  
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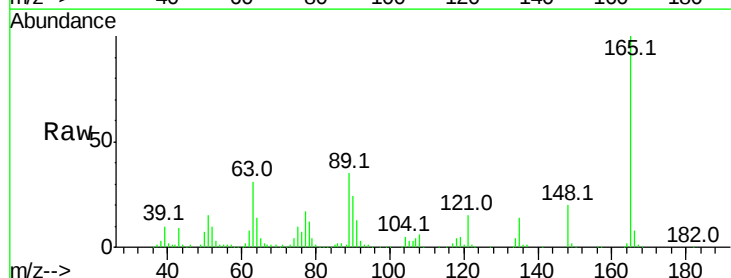


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

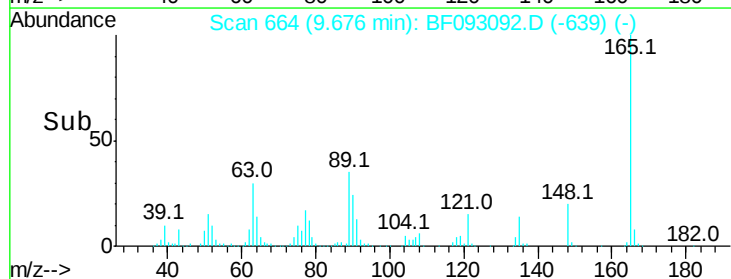
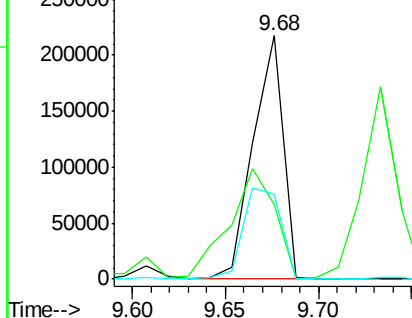


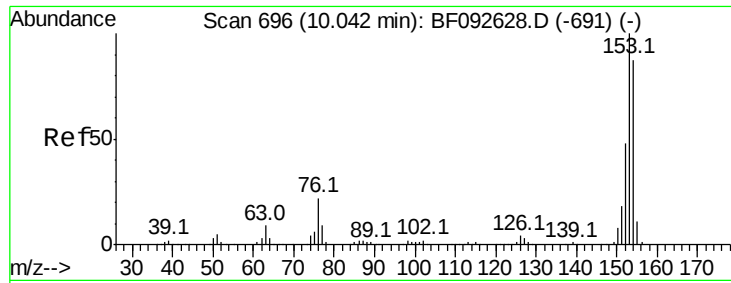
#50  
2,6-Dinitrotoluene  
Concen: 56.03 ng  
RT: 9.68 min Scan# 664  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Tgt Ion:165 Resp: 240990  
Ion Ratio Lower Upper  
165 100  
63 30.7 36.2 54.4#  
89 34.8 40.2 60.4#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0





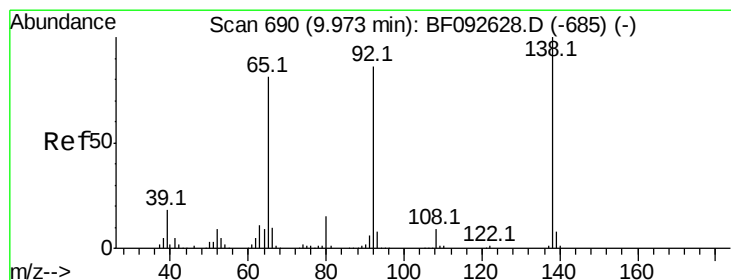
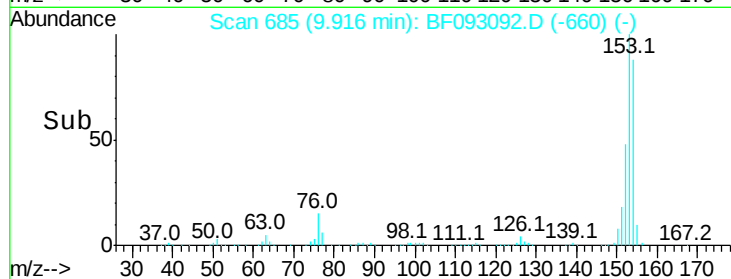
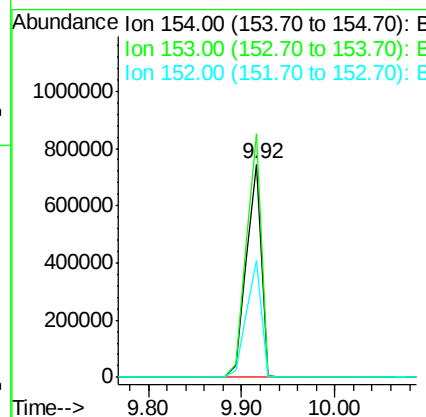
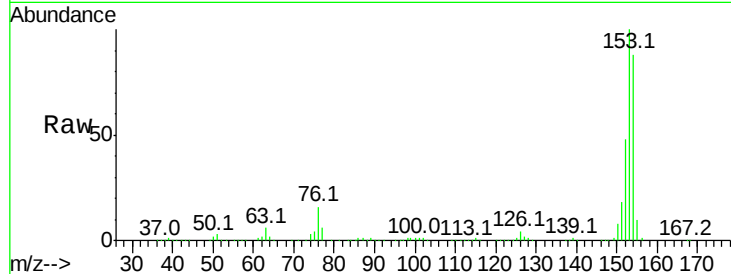
#51  
Acenaphthene  
Concen: 47.94 ng  
RT: 9.92 min Scan# 685  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 114.3 | 88.6  | 133.0 |
| 152     | 54.8  | 41.6  | 62.4  |

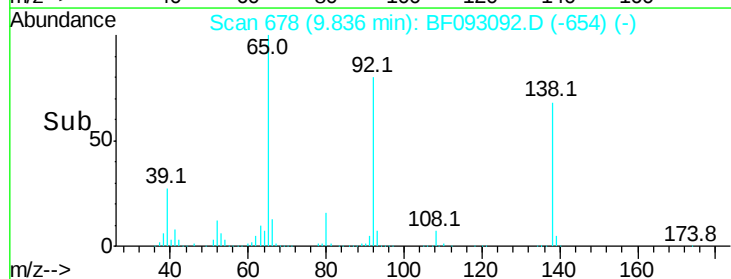
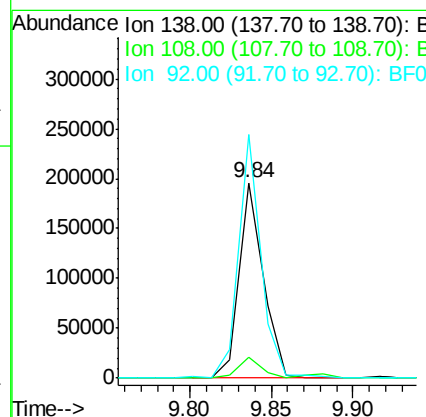
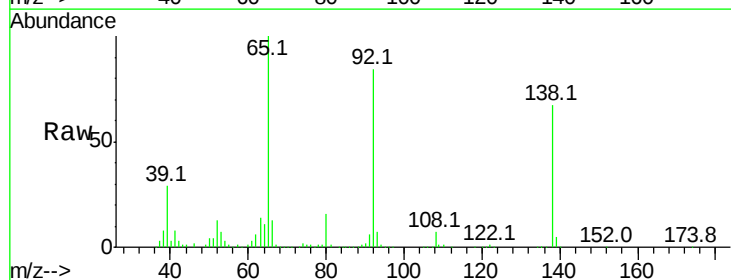
Manual Integrations  
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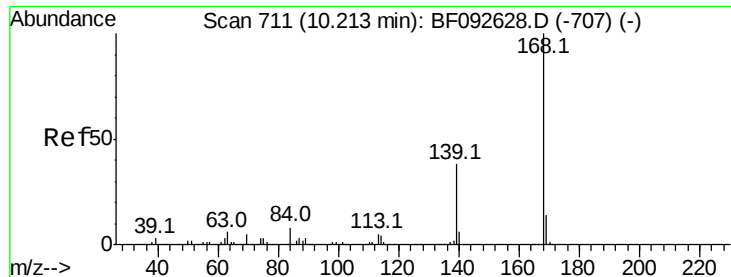
mohammad  
2/23/2017 1:16:18 PM



#52  
3-Nitroaniline  
Concen: 40.72 ng  
RT: 9.84 min Scan# 678  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 10.7  | 8.5   | 12.7  |
| 92      | 124.5 | 97.8  | 146.8 |





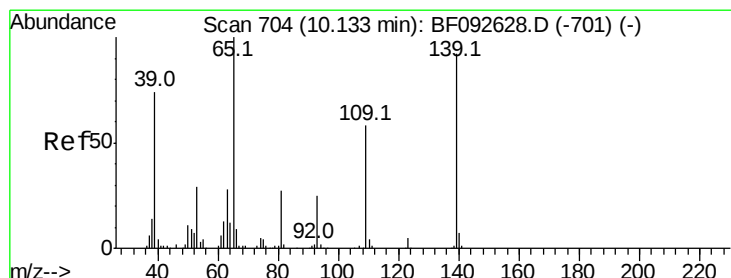
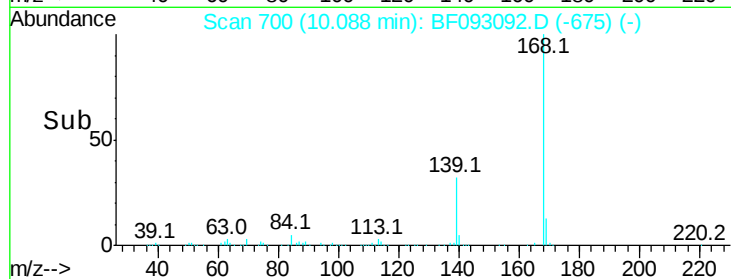
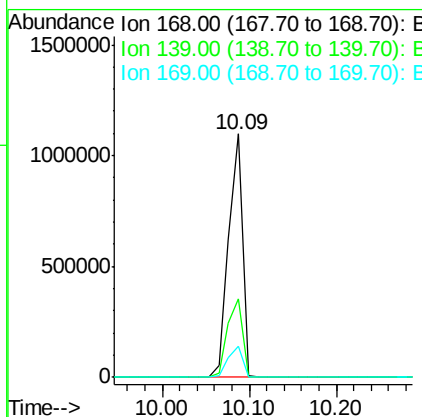
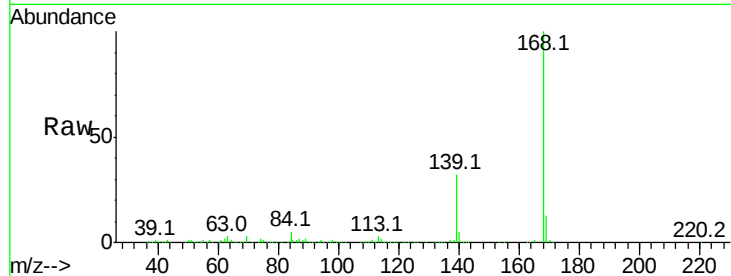
#54  
Dibenzofuran  
Concen: 52.84 ng  
RT: 10.09 min Scan# 700  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampled :  
P-5MSD

Tot Ion:168 Resp: 1222705  
Ion Ratio Lower Upper  
168 100  
139 32.3 32.6 49.0#  
169 13.0 11.3 16.9

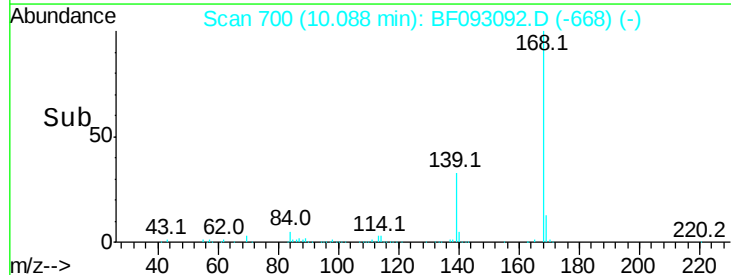
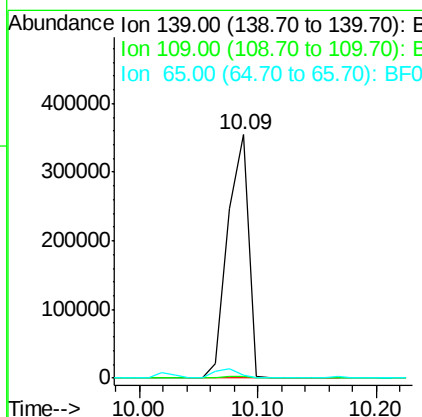
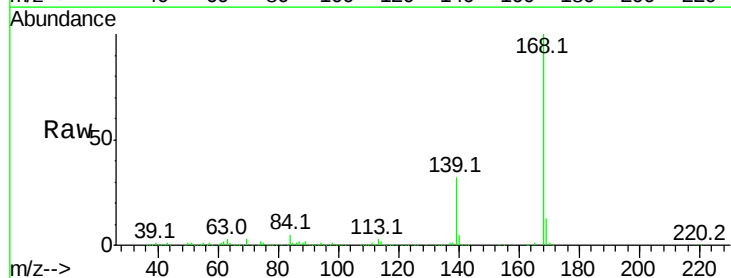
Manual Integrations  
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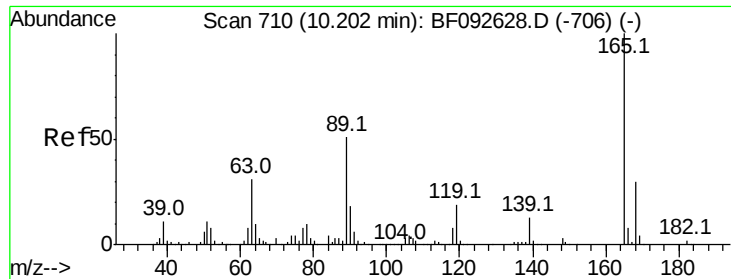
mohammad  
2/23/2017 1:16:18 PM



#55  
4-Nitrophenol  
Concen: 120.91 ng  
RT: 10.09 min Scan# 700  
Delta R.T. 0.07 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Tgt Ion:139 Resp: 428681  
Ion Ratio Lower Upper  
139 100  
109 0.7 52.2 92.2#  
65 1.3 85.8 125.8#





#56

2,4-Dinitrotoluene

Concen: 54.12 ng

RT: 10.08 min Scan# 699

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

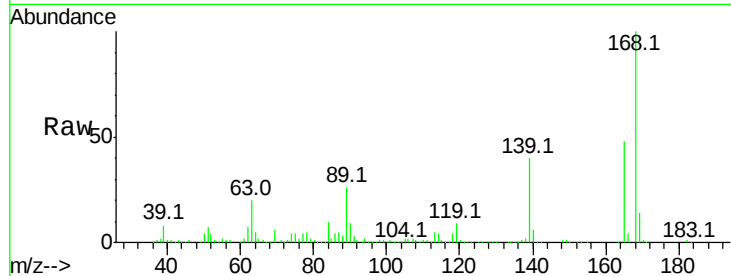
ClientSampleId :

P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 309921 |       |       |
| 63      | 41.3  |        | 40.2  | 60.4  |
| 89      | 55.2  |        | 62.5  | 93.7# |
| 182     | 2.6   |        | 1.8   | 2.8   |

Manual Integrations  
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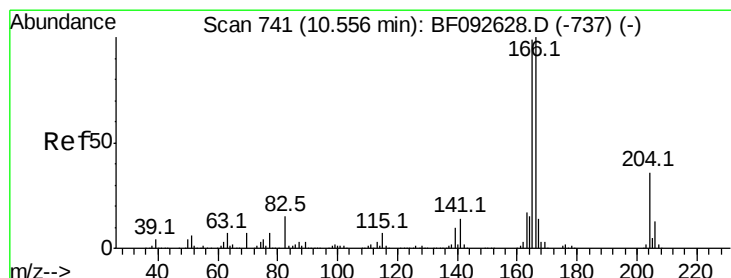
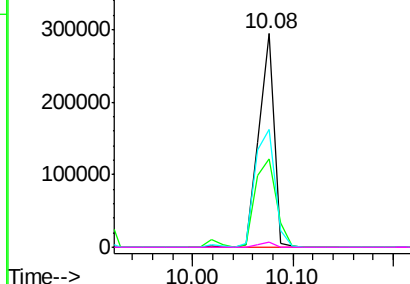
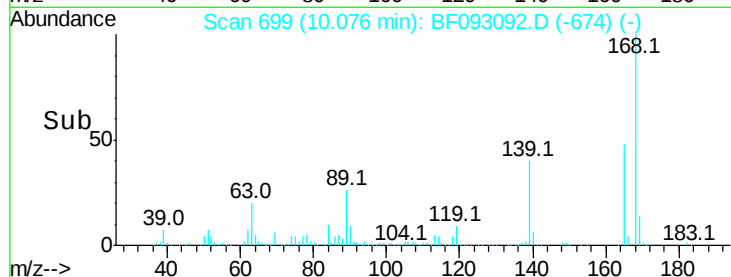


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57

Fluorene

Concen: 48.29 ng

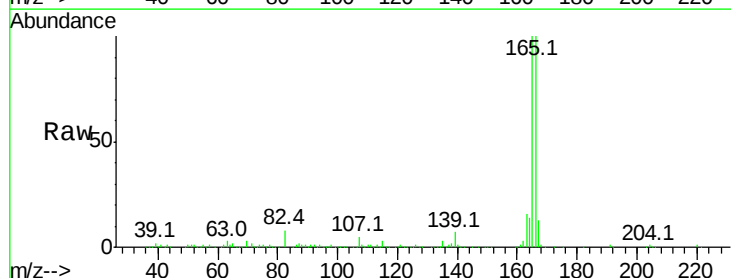
RT: 10.43 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

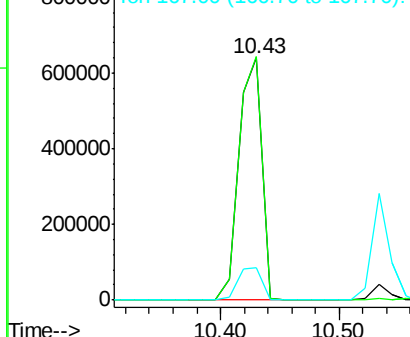
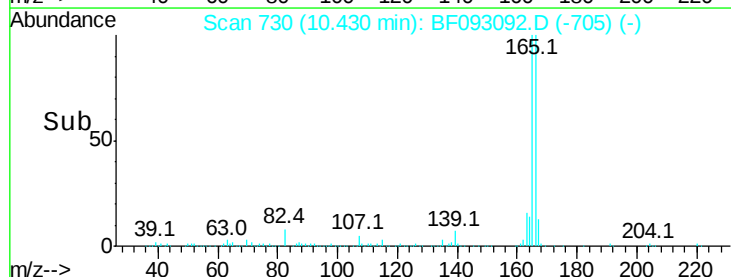
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 859681 |       |       |
| 165     | 100.5 |        | 77.8  | 116.8 |
| 167     | 13.3  |        | 10.8  | 16.2  |

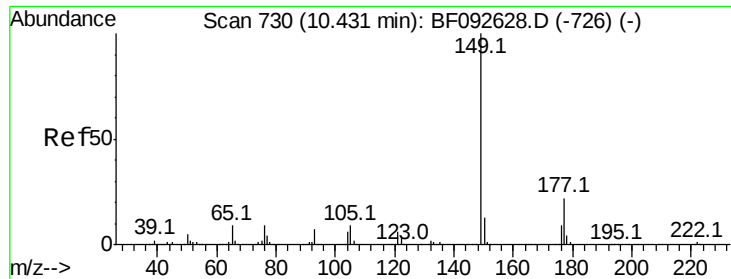


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





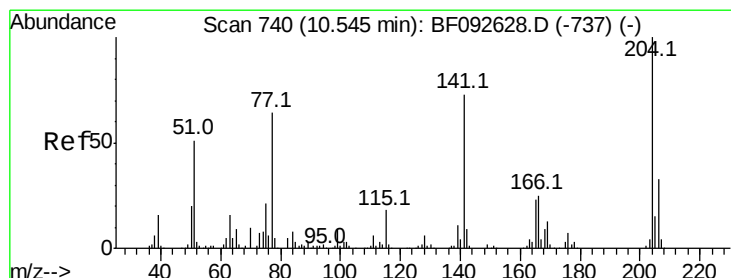
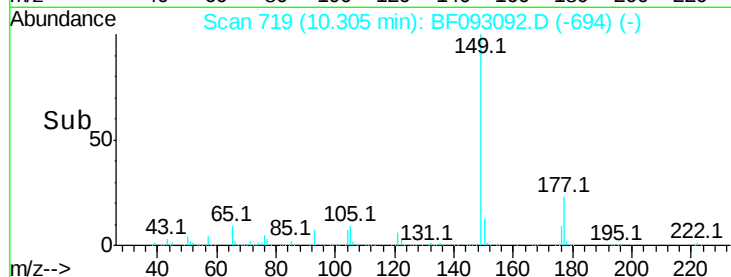
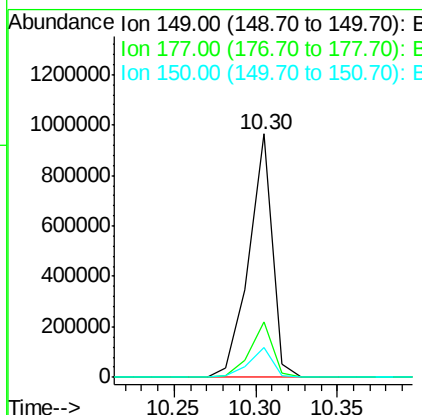
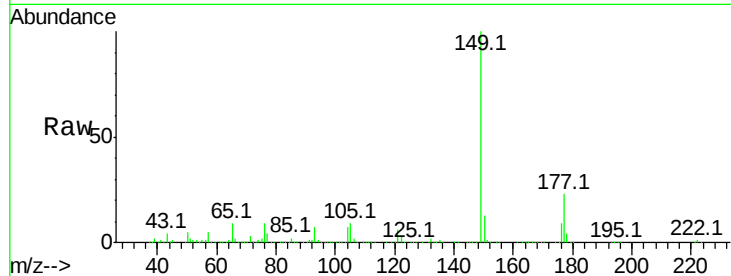
#59  
Diethylphthalate  
Concen: 51.53 ng  
RT: 10.30 min Scan# 719  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 967211 |       |       |
| 177     | 22.6  | 16.6   | 25.0  |       |
| 150     | 12.5  | 10.4   | 15.6  |       |

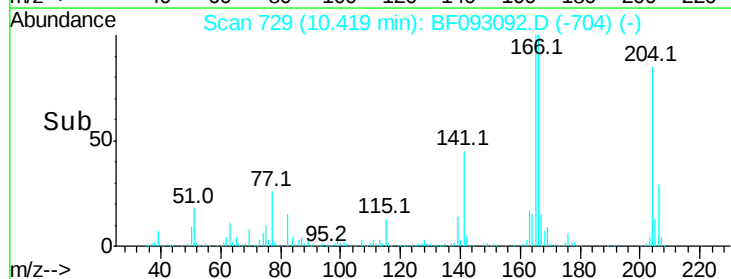
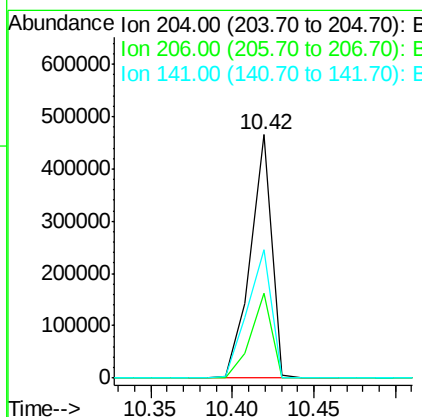
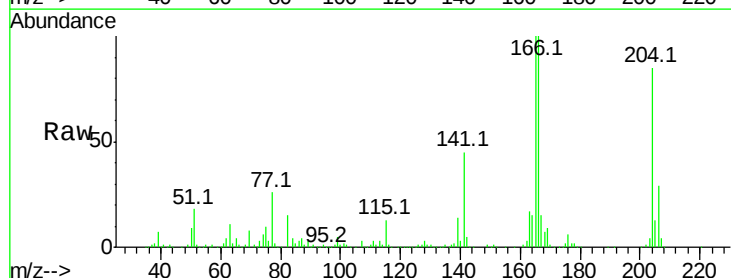
Manual Integrations  
APPROVED

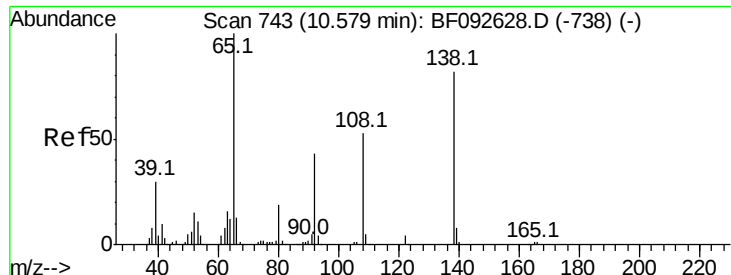
mohammad  
2/23/2017 1:16:18 PM



#60  
4-Chlorophenyl-phenylether  
Concen: 49.62 ng  
RT: 10.42 min Scan# 729  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 204     | 100   | 424335 |       |       |
| 206     | 34.8  | 25.8   | 38.6  |       |
| 141     | 52.6  | 59.4   | 89.0  |       |





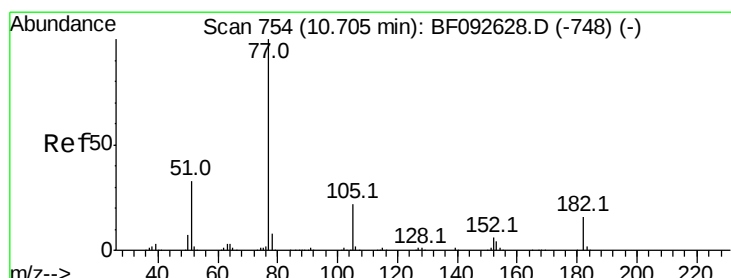
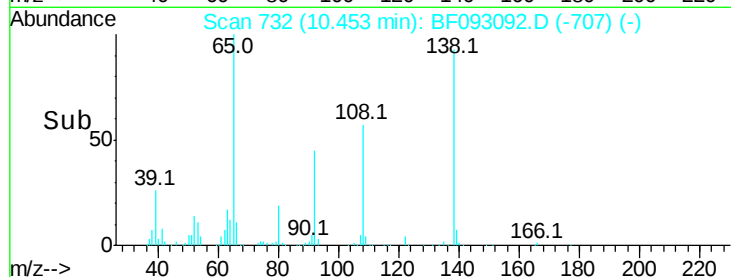
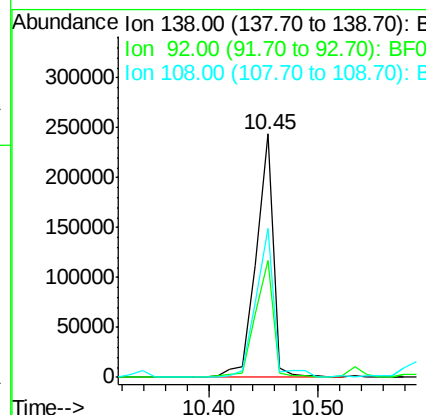
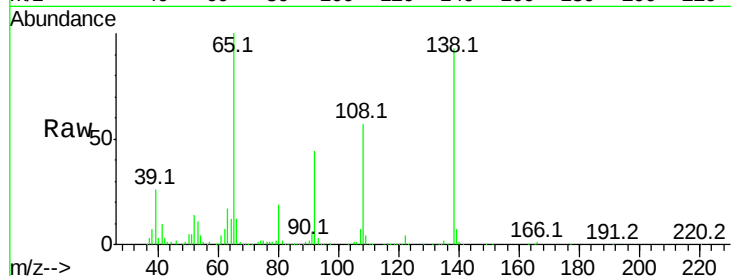
#61  
4-Nitroaniline  
Concen: 53.51 ng  
RT: 10.45 min Scan# 732  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 48.0  | 31.7  | 71.7  |
| 108     | 61.1  | 52.6  | 92.6  |

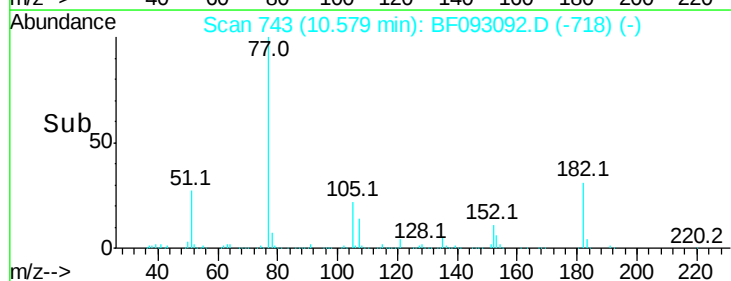
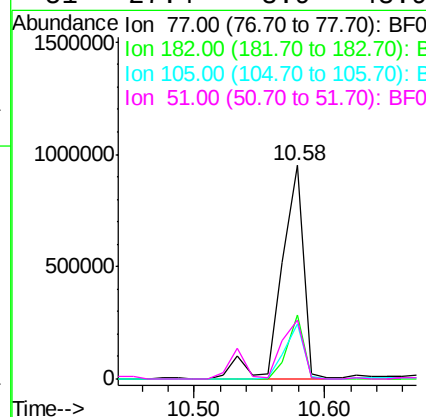
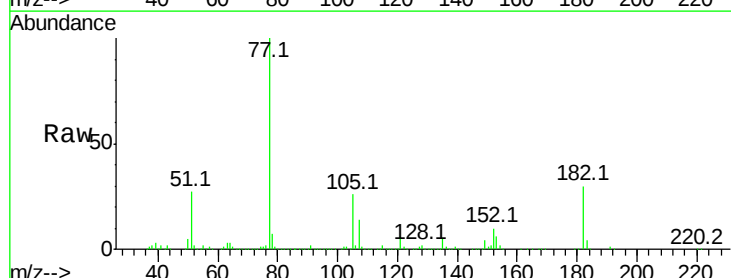
Manual Integrations  
APPROVED

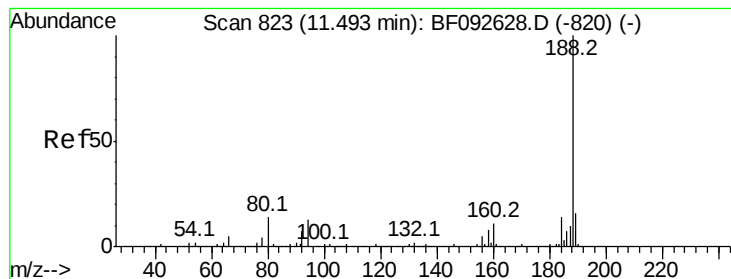
mohammad  
2/23/2017 1:16:18 PM



#62  
Azobenzene  
Concen: 58.85 ng  
RT: 10.58 min Scan# 743  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 182     | 30.2  | 0.0   | 39.3  |
| 105     | 25.7  | 2.3   | 42.3  |
| 51      | 27.4  | 8.9   | 48.9  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

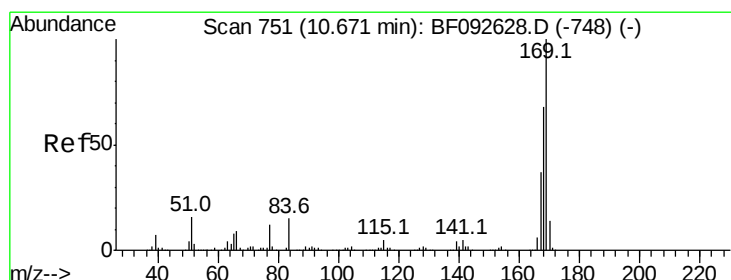
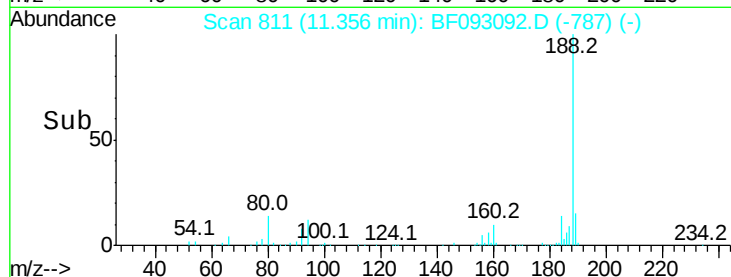
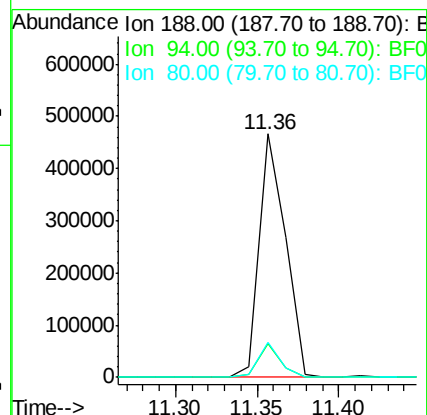
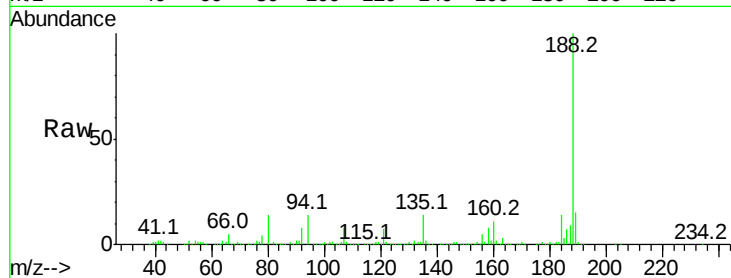
ClientSampleId :

P-5MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 188   | Resp: | 523459 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 13.9  | 10.0  | 15.0   |
| 80        | 14.5  | 11.2  | 16.8   |

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#65

n-Nitrosodiphenylamine

Concen: 44.90 ng

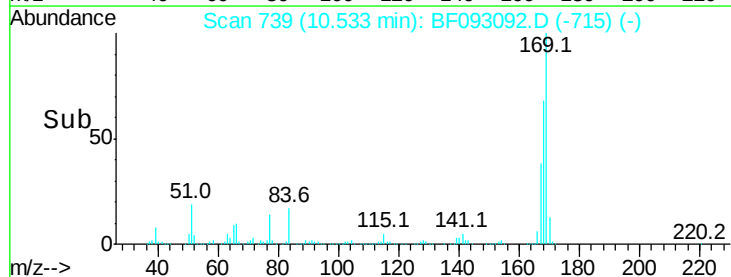
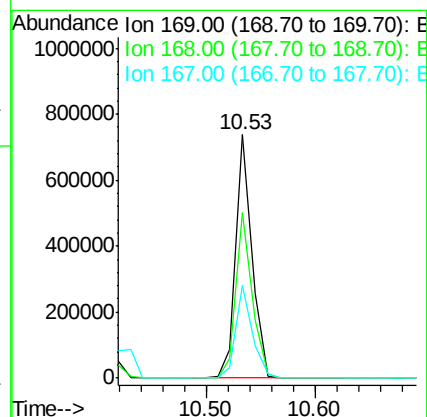
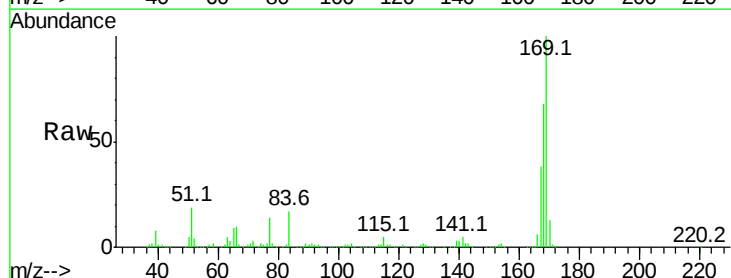
RT: 10.53 min Scan# 739

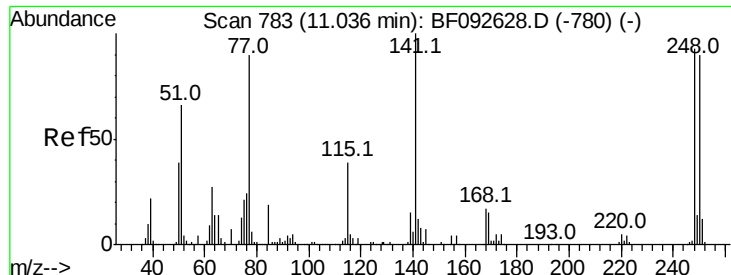
Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 169   | Resp: | 750773 |
| Ion Ratio | Lower | Upper |        |
| 169       | 100   |       |        |
| 168       | 68.0  | 54.2  | 81.2   |
| 167       | 38.1  | 30.2  | 45.4   |





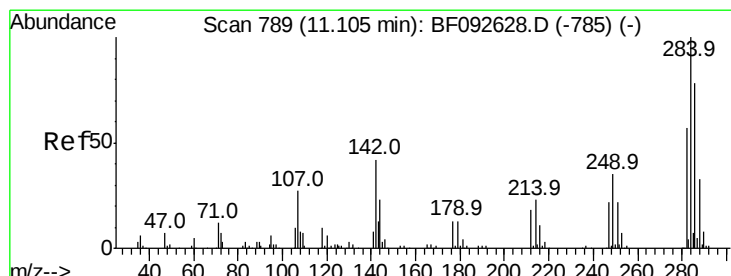
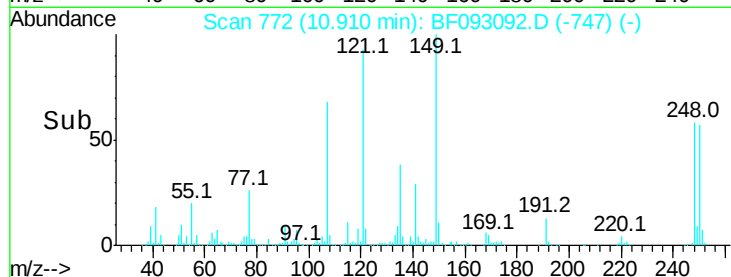
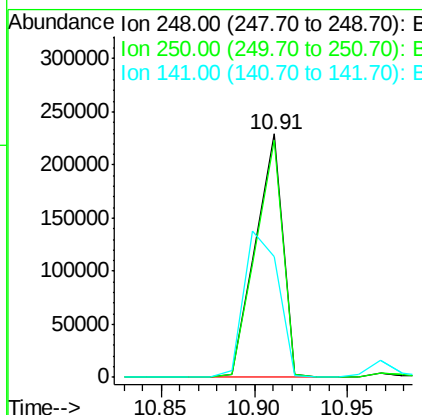
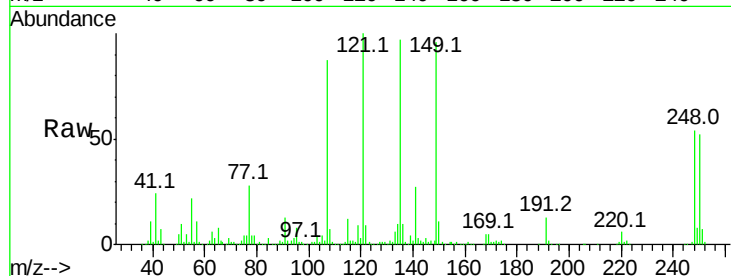
#66  
4-Bromophenyl-phenylether  
Concen: 43.36 ng  
RT: 10.91 min Scan# 772  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 97.2  | 76.9  | 115.3  |
| 141     | 49.4  | 68.2  | 102.4# |

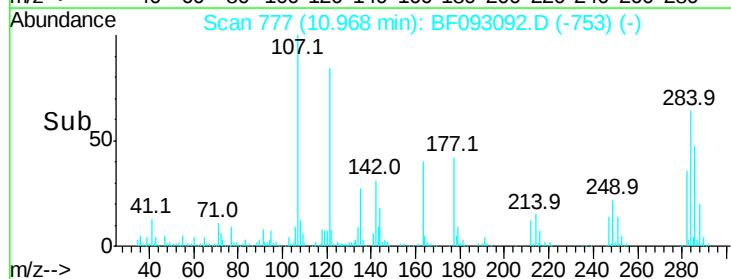
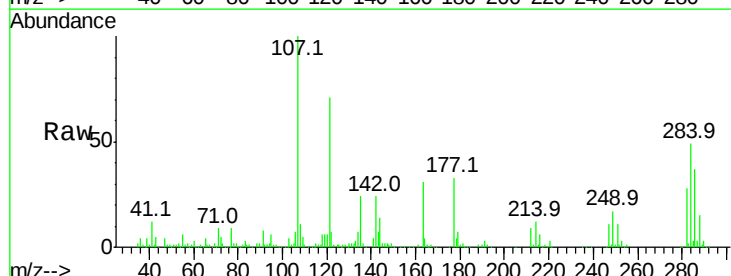
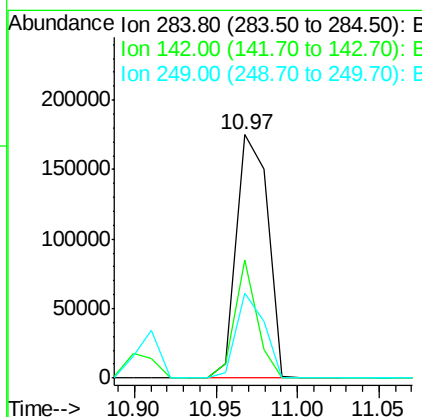
Manual Integrations  
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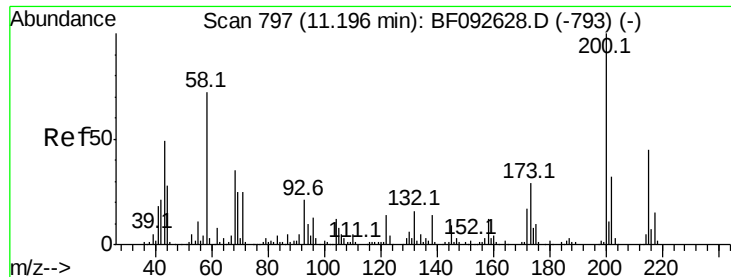
mohammad  
2/23/2017 1:16:18 PM



#67  
Hexachlorobenzene  
Concen: 42.74 ng  
RT: 10.97 min Scan# 777  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 48.5  | 22.6  | 33.8# |
| 249     | 35.1  | 25.4  | 38.0  |





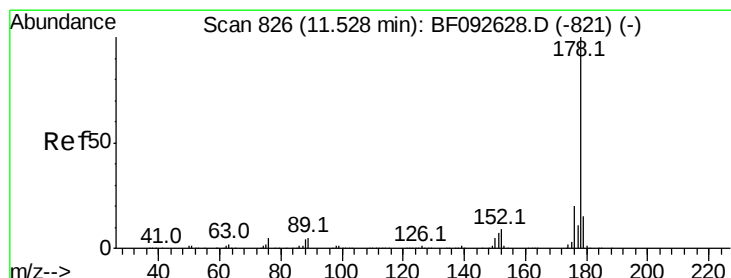
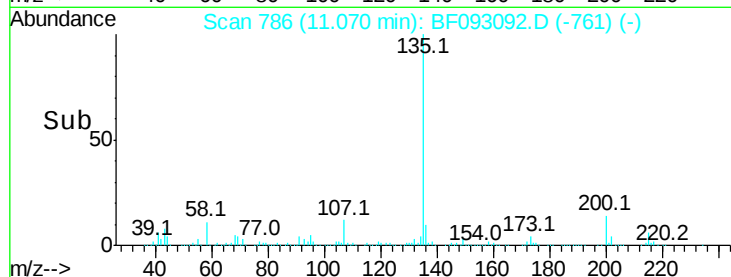
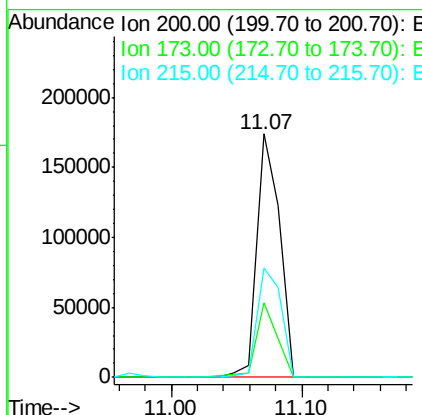
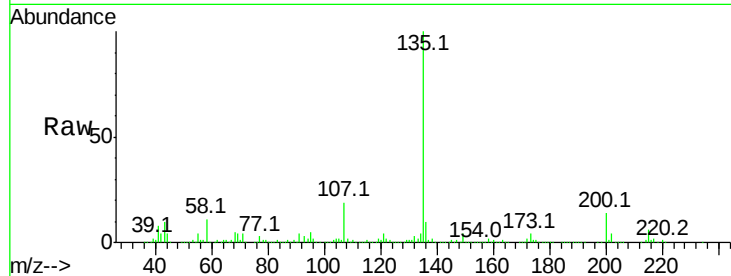
#68  
Atrazine  
Concen: 39.60 ng  
RT: 11.07 min Scan# 786  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 30.6  | 9.6   | 49.6  |
| 215     | 44.9  | 25.7  | 65.7  |

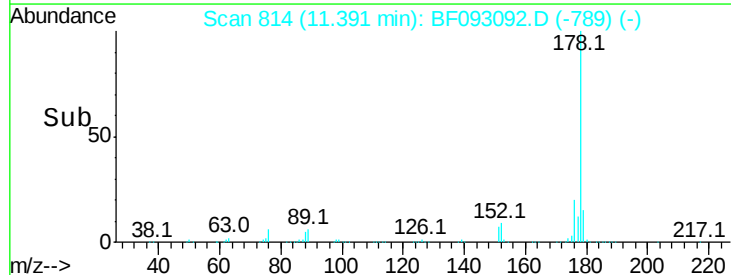
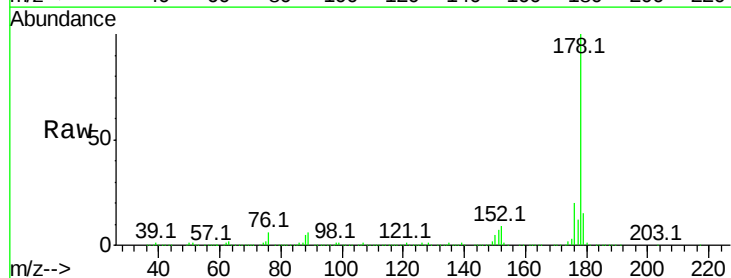
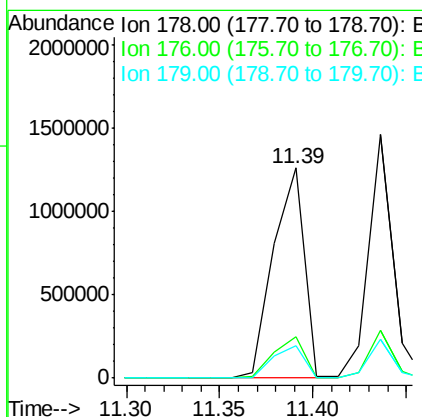
Manual Integrations  
APPROVED

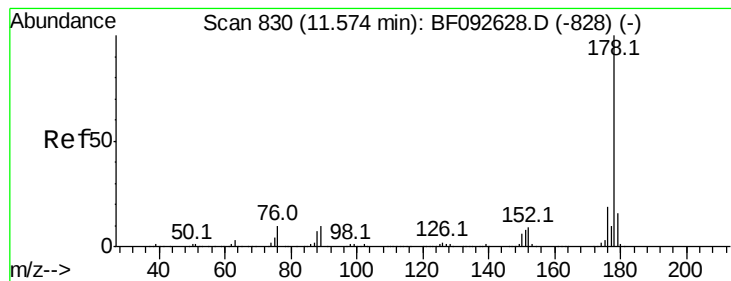
mohammad  
2/23/2017 1:16:18 PM



#70  
Phenanthrene  
Concen: 48.69 ng  
RT: 11.39 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 16.6  | 25.0  |
| 179     | 15.1  | 12.8  | 19.2  |





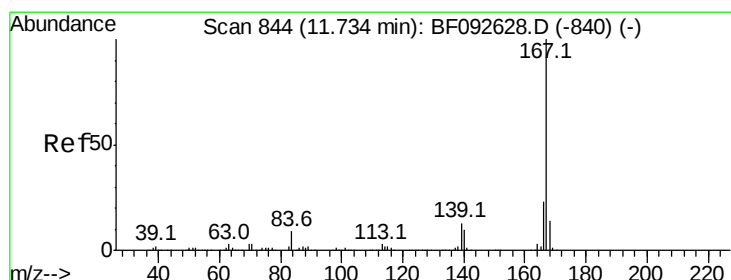
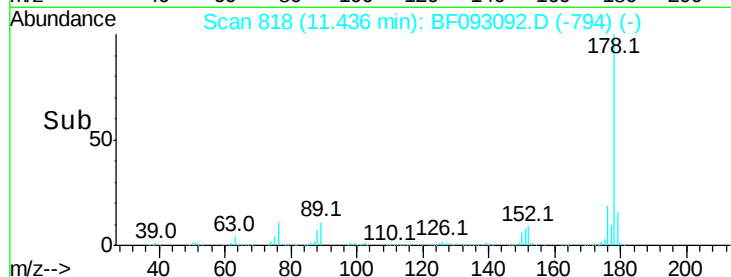
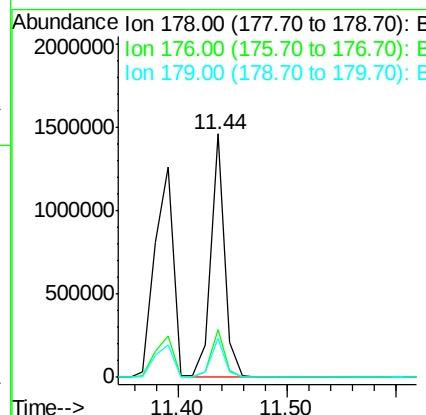
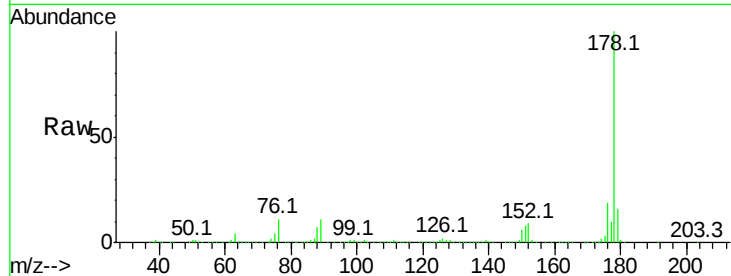
#71  
 Anthracene  
 Concen: 42.88 ng  
 RT: 11.44 min Scan# 818  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

Tot Ion:178 Resp: 1291494  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 15.9 23.9  
 179 15.7 13.2 19.8

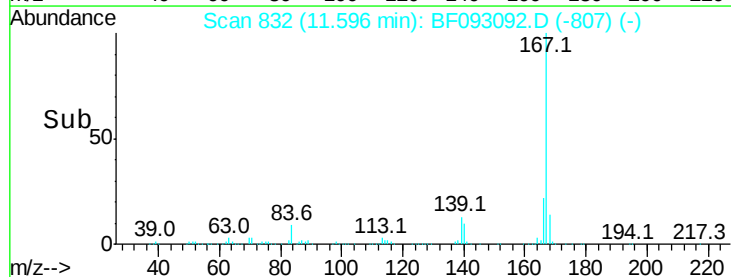
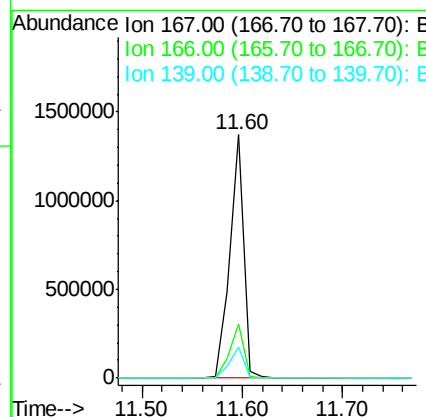
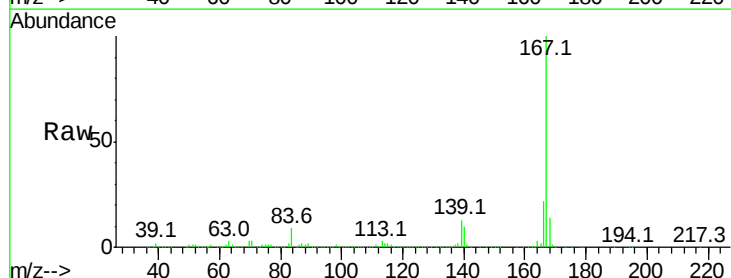
Manual Integrations  
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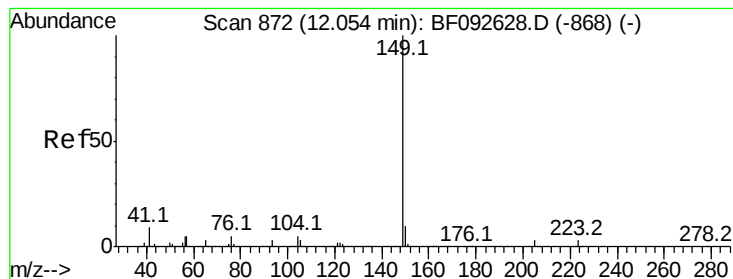
mohammad  
 2/23/2017 1:16:18 PM



#72  
 Carbazole  
 Concen: 45.88 ng  
 RT: 11.60 min Scan# 832  
 Delta R.T. -0.01 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Tgt Ion:167 Resp: 1320933  
 Ion Ratio Lower Upper  
 167 100  
 166 22.5 18.2 27.2  
 139 12.9 11.4 17.2





#73

Di-n-butylphthalate

Concen: 67.87 ng

RT: 11.92 min Scan# 860

Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

ClientSampleId :

P-5MSD

Tot Ion:149 Resp: 2113002

Ion Ratio Lower Upper

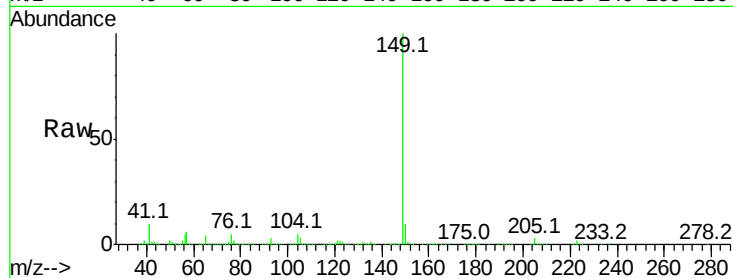
149 100

150 9.7 8.1 12.1

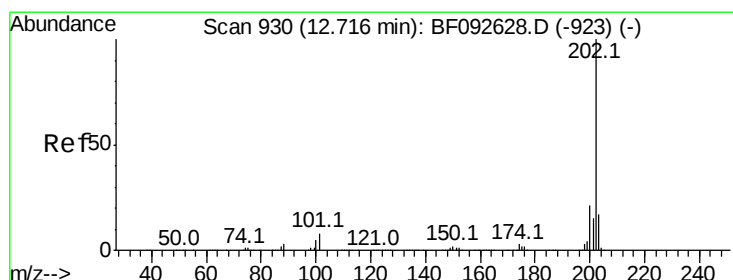
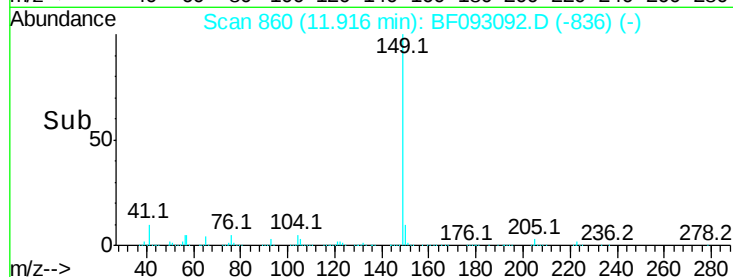
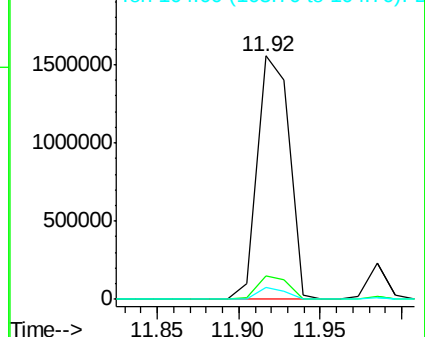
104 4.9 4.6 7.0

Manual Integrations  
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2/23/2017 1:16:18 PM



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: 41.05 ng

RT: 12.57 min Scan# 917

Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

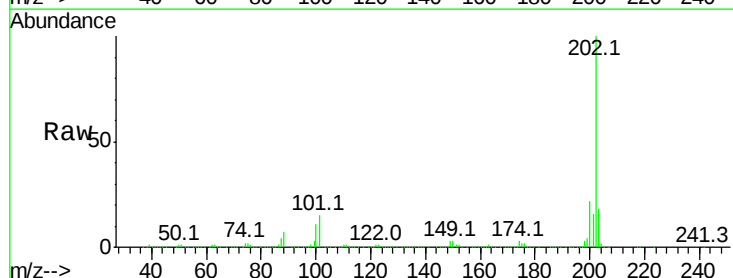
Tgt Ion:202 Resp: 1269702

Ion Ratio Lower Upper

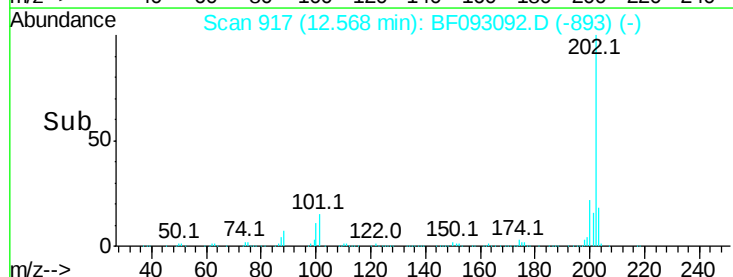
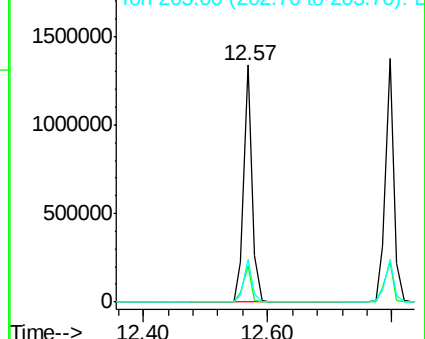
202 100

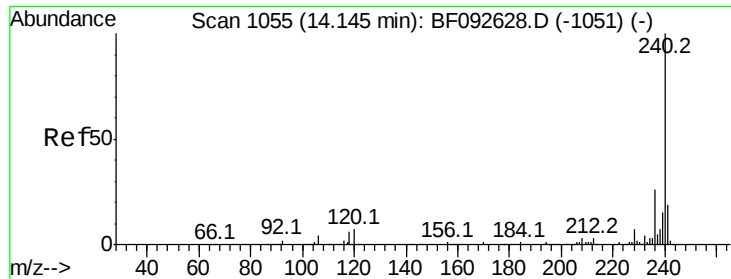
101 15.1 0.0 34.6

203 18.2 0.0 38.7



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





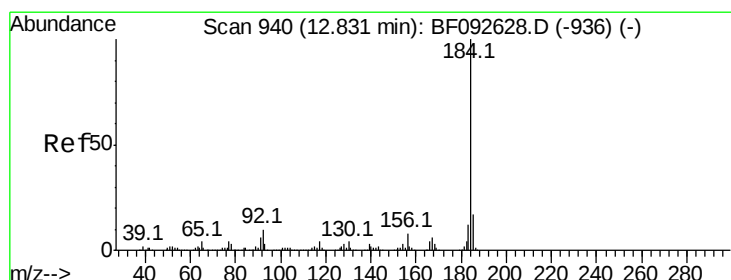
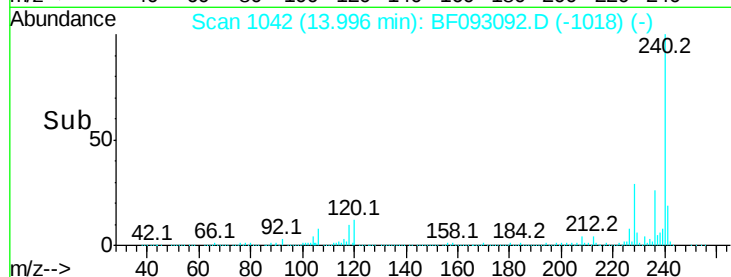
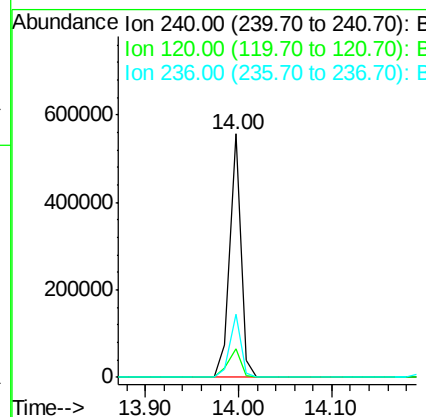
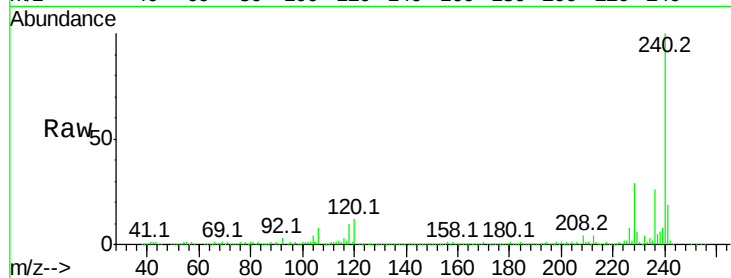
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.00 min Scan# 1042  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.6  | 12.9  | 19.3# |
| 236     | 25.8  | 20.9  | 31.3  |

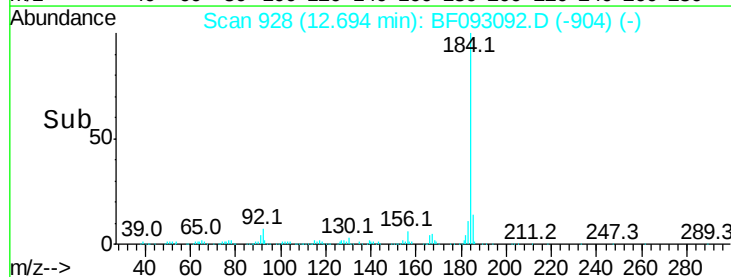
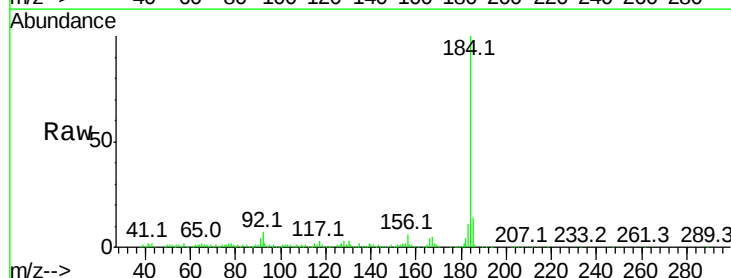
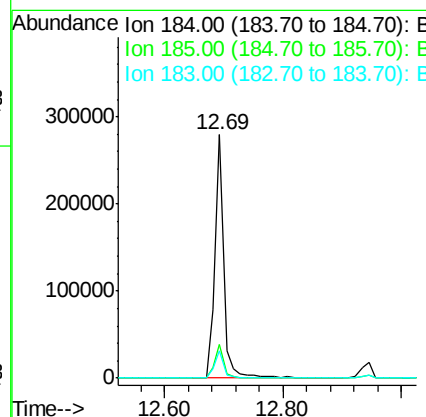
Manual Integrations  
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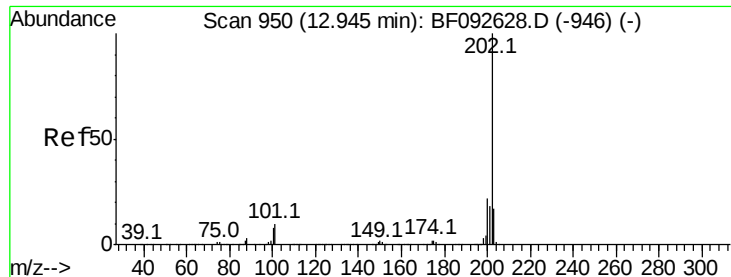
mohammad  
2/23/2017 1:16:18 PM



#76  
Benzidine  
Concen: 14.80 ng  
RT: 12.69 min Scan# 928  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 13.8  | 13.4  | 20.0  |
| 183     | 11.5  | 9.2   | 13.8  |





#77

Pvrene

Concen: 37.80 ng

RT: 12.80 min Scan# 937

Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

Instrument :

BNA\_F

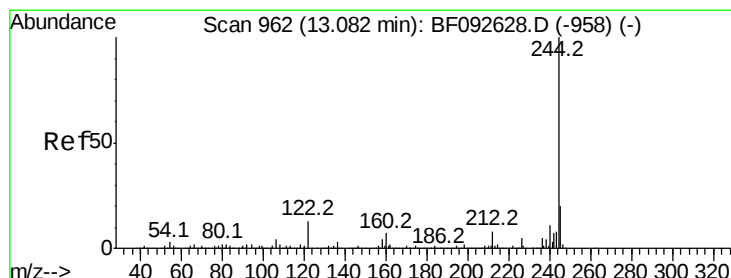
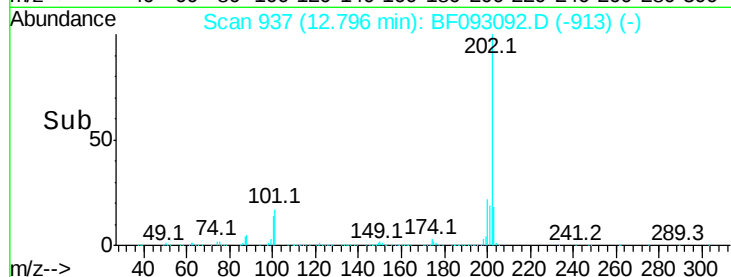
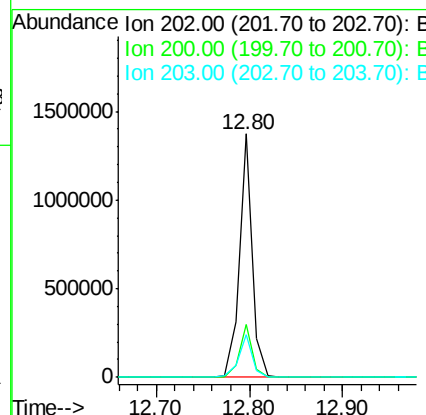
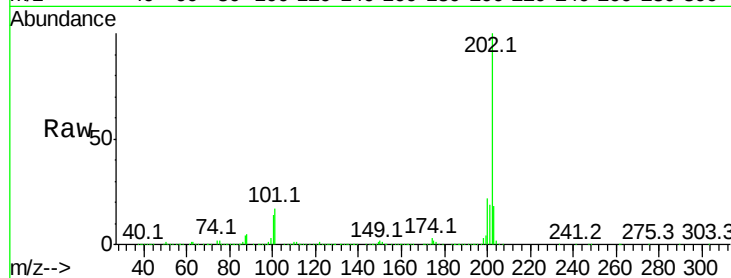
ClientSampleId :

P-5MSD

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 1317996 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 200      | 21.8  | 17.7  | 26.5    |
| 203      | 17.7  | 14.7  | 22.1    |

Manual Integrations  
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#78

Terphenyl-d14

Concen: 79.37 ng

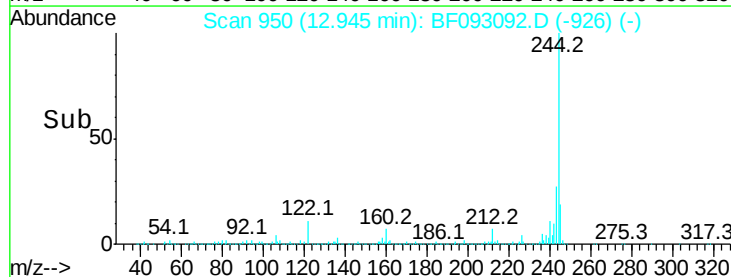
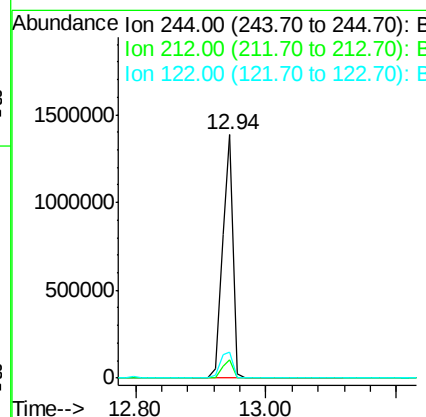
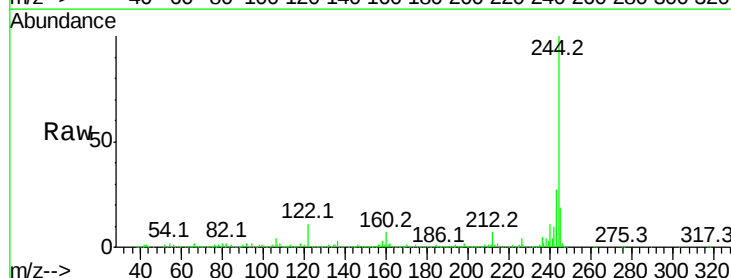
RT: 12.94 min Scan# 950

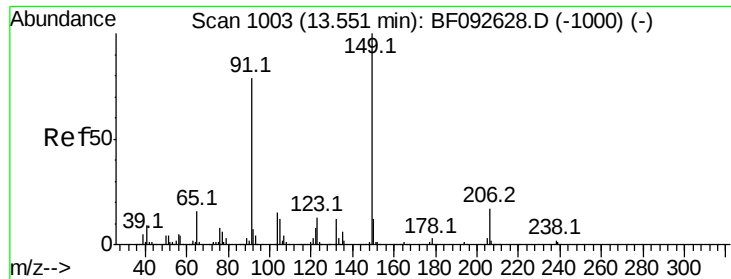
Delta R.T. -0.02 min

Lab File: BF093092.D

Acq: 22 Feb 2017 23:00

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 244   | Resp: | 1574039 |
| Ion      | Ratio | Lower | Upper   |
| 244      | 100   |       |         |
| 212      | 7.3   | 6.2   | 9.2     |
| 122      | 10.8  | 11.4  | 17.2#   |





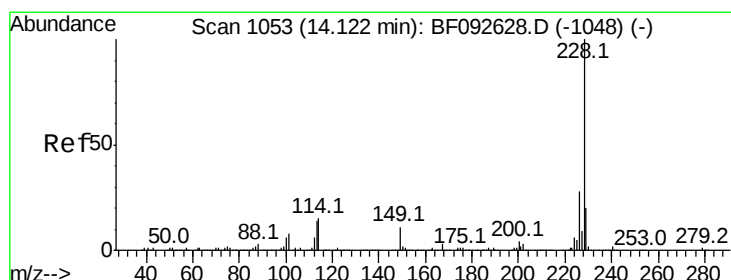
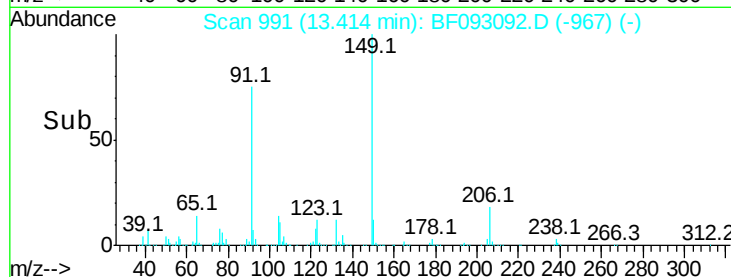
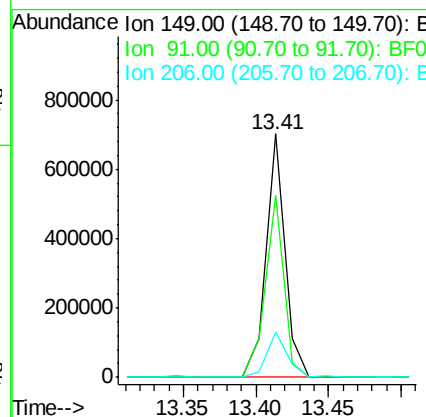
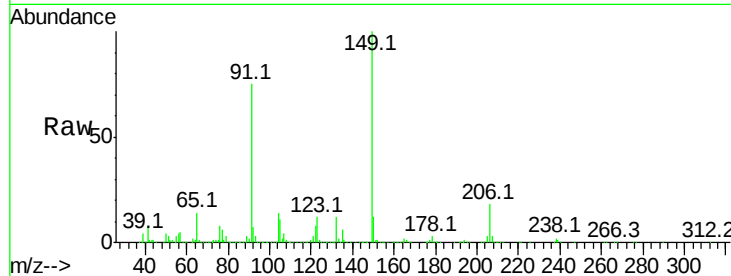
#79  
Butylbenzylphthalate  
Concen: 44.86 ng  
RT: 13.41 min Scan# 991  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 74.7  | 63.9  | 95.9  |
| 206     | 18.4  | 14.6  | 21.8  |

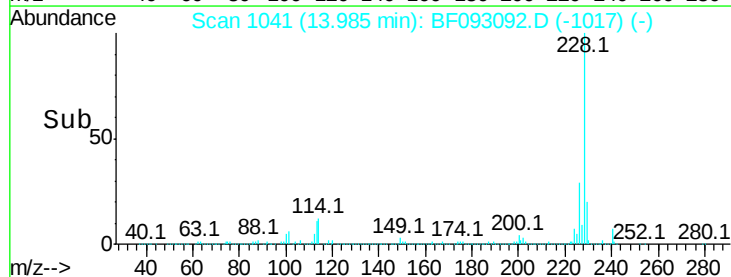
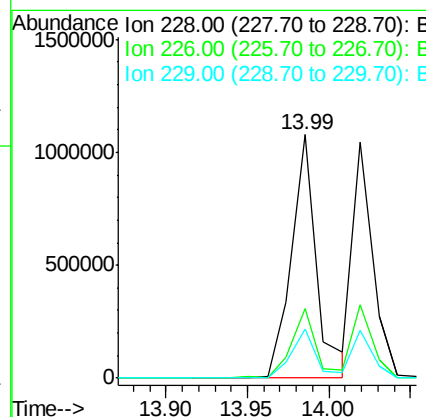
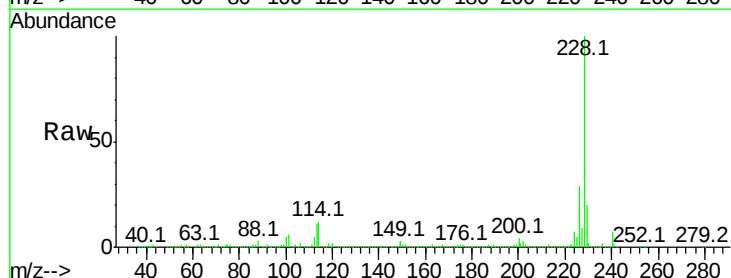
Manual Integrations  
APPROVED

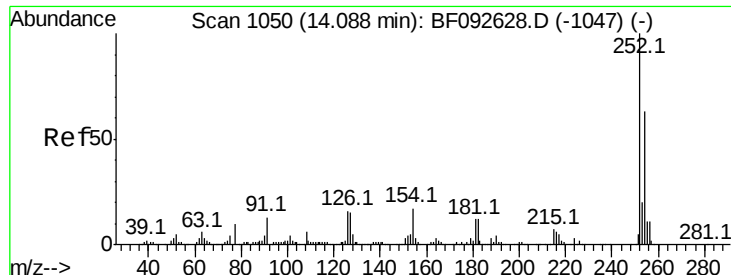
mohammad  
2/23/2017 1:16:18 PM



#80  
Benzo(a)anthracene  
Concen: 40.91 ng  
RT: 13.99 min Scan# 1041  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.6  | 22.4  | 33.6  |
| 229     | 20.1  | 16.2  | 24.4  |





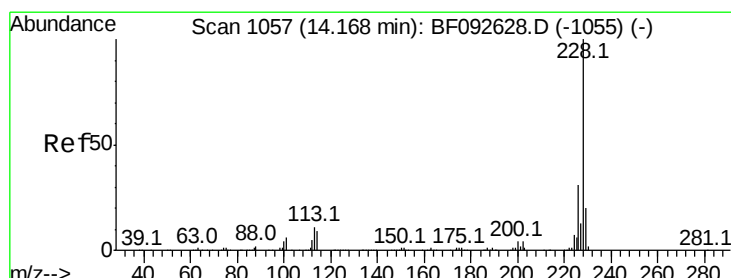
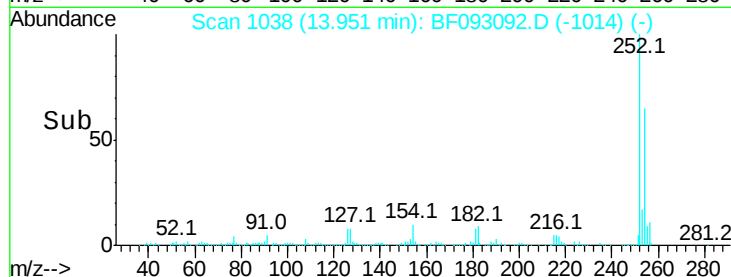
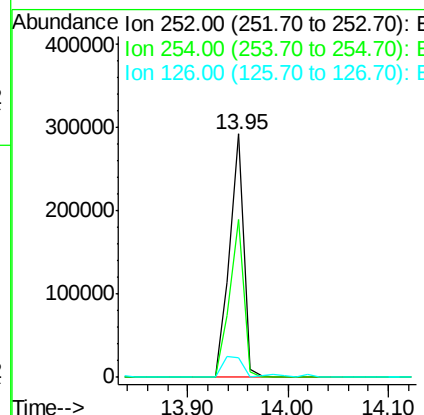
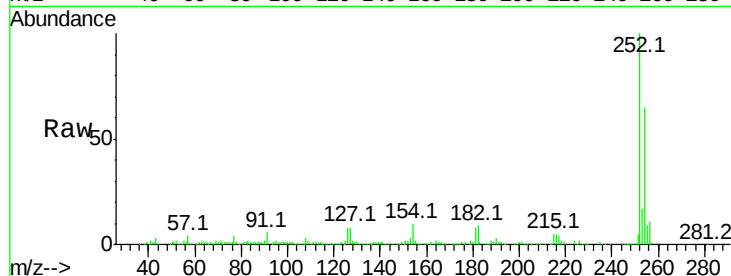
#81  
 3,3'-Dichlorobenzidine  
 Concen: 28.52 ng  
 RT: 13.95 min Scan# 1038  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampled :  
 P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 289783 |       |       |
| 254     | 64.9  | 52.3   | 78.5  |       |
| 126     | 7.9   | 13.6   | 20.4  |       |

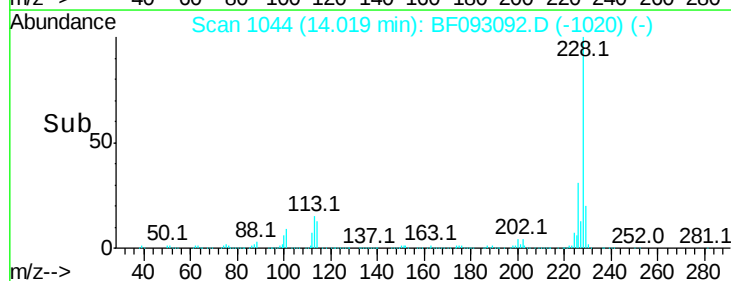
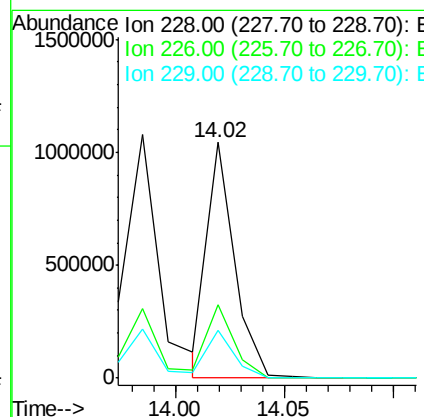
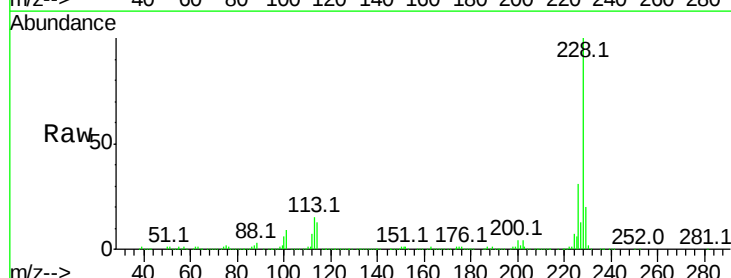
Manual Integrations  
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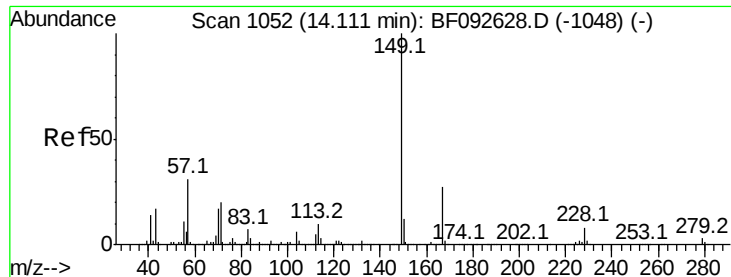
mohammad  
 2/23/2017 1:16:18 PM



#82  
 Chrysene  
 Concen: 34.16 ng  
 RT: 14.02 min Scan# 1044  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 911420 |       |       |
| 226     | 31.0  | 25.4   | 38.0  |       |
| 229     | 20.1  | 16.2   | 24.2  |       |





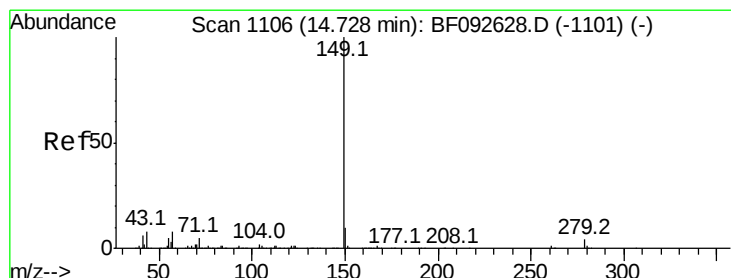
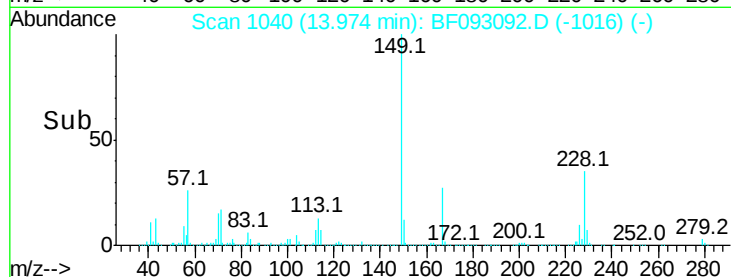
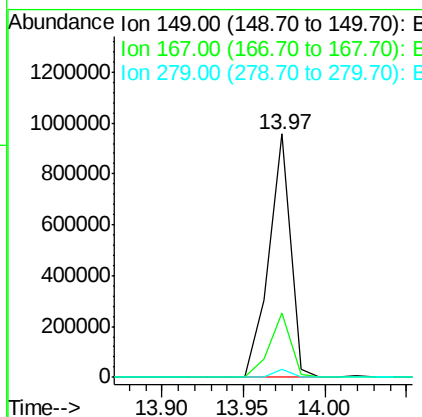
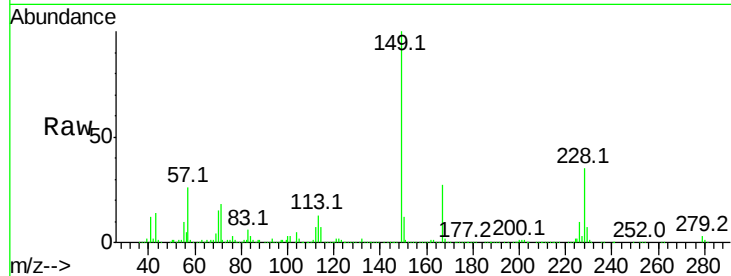
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 46.03 ng  
 RT: 13.97 min Scan# 1040  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 891338 |       |       |
| 167     | 26.7  | 20.2   | 30.4  |       |
| 279     | 3.3   | 1.8    | 2.8   |       |

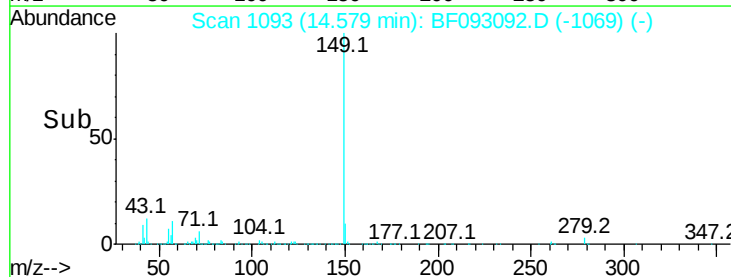
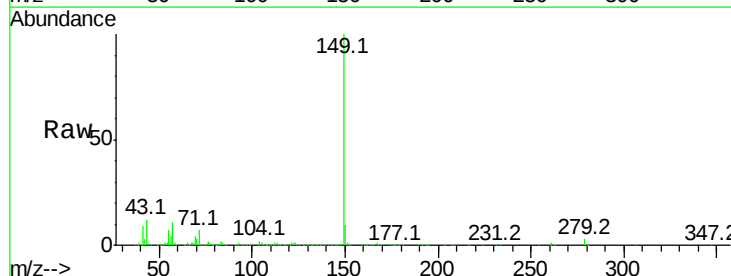
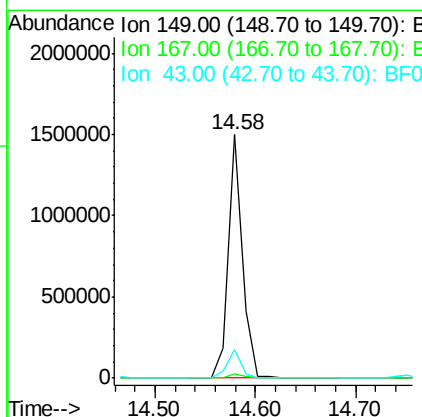
Manual Integrations  
 APPROVED

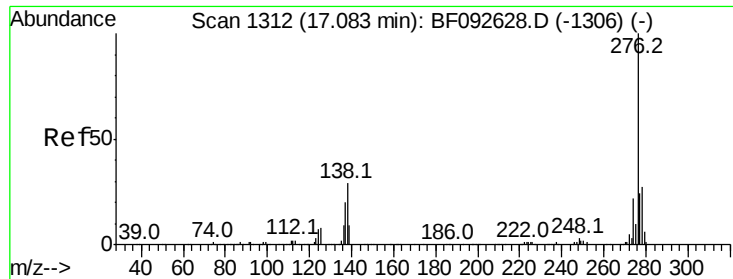
mohammad  
 2/23/2017 1:16:18 PM



#84  
 Di-n-octyl phthalate  
 Concen: 46.07 ng  
 RT: 14.58 min Scan# 1093  
 Delta R.T. -0.02 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 149     | 100   | 1452972 |       |       |
| 167     | 1.6   | 1.3     | 1.9   |       |
| 43      | 11.5  | 8.9     | 13.3  |       |





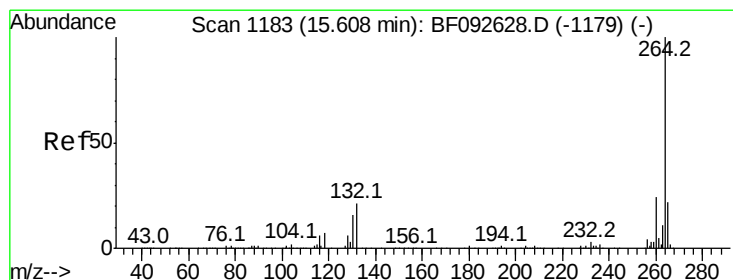
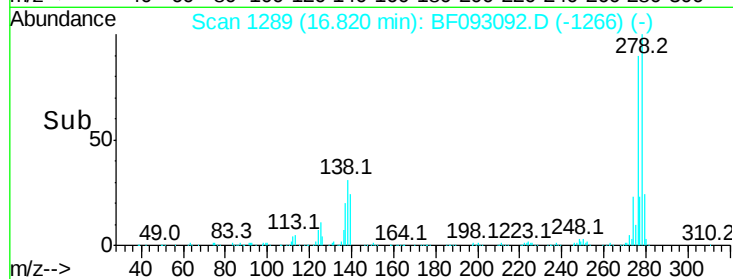
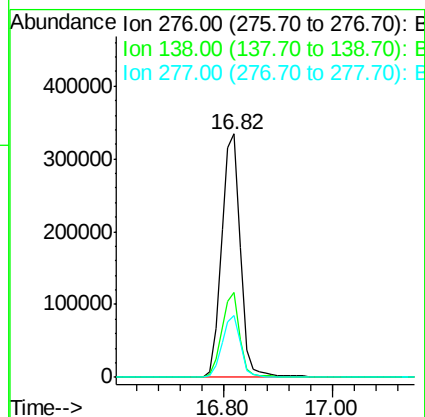
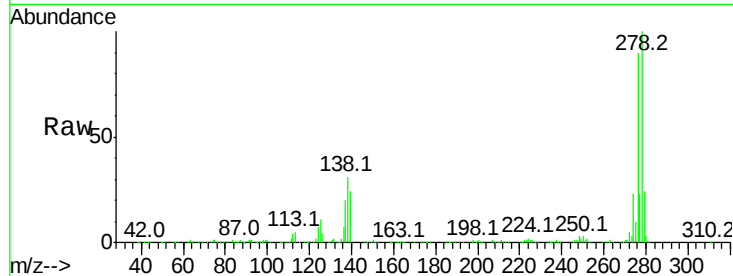
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 39.51 ng  
RT: 16.82 min Scan# 1289  
Delta R.T. -0.03 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 33.6  | 21.8  | 32.6# |
| 277     | 24.9  | 20.2  | 30.4  |

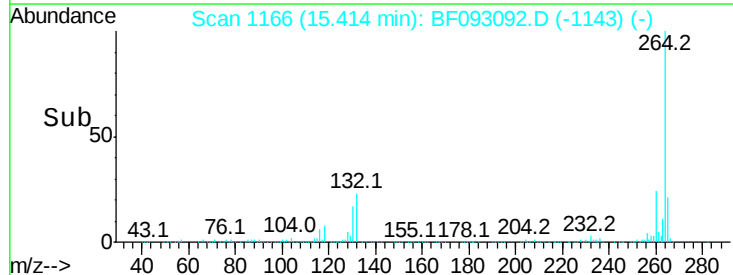
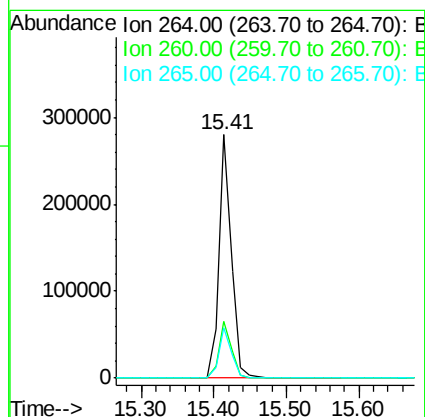
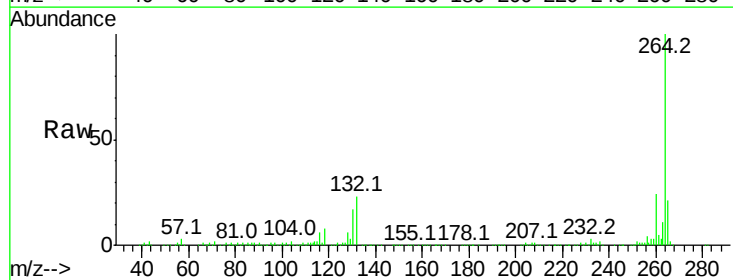
Manual Integrations  
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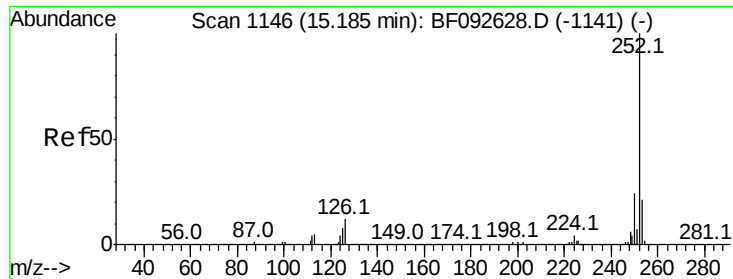
mohammad  
2/23/2017 1:16:18 PM



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.41 min Scan# 1166  
Delta R.T. -0.03 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 20.9  | 17.4  | 26.0  |





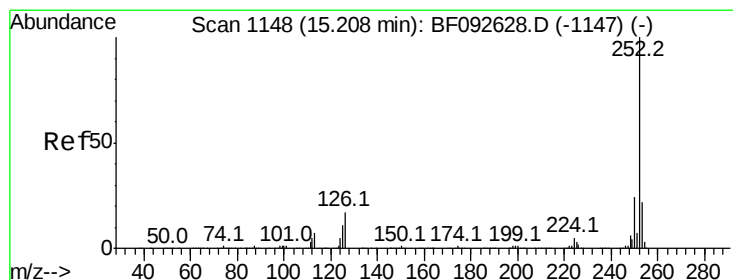
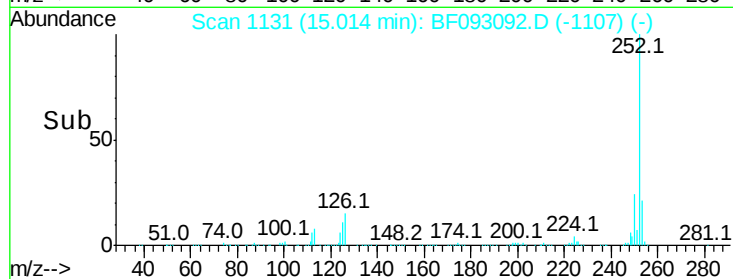
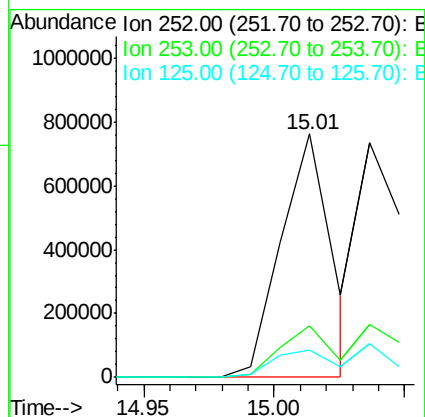
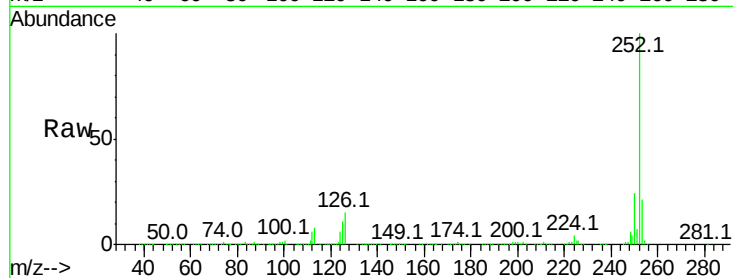
#87  
Benzo(b)fluoranthene  
Concen: 46.48 ng  
RT: 15.01 min Scan# 1131  
Delta R.T. -0.02 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampled :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.4  | 18.2  | 27.4  |
| 125     | 11.4  | 9.8   | 14.6  |

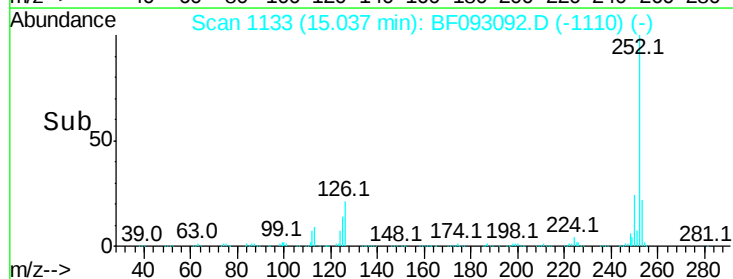
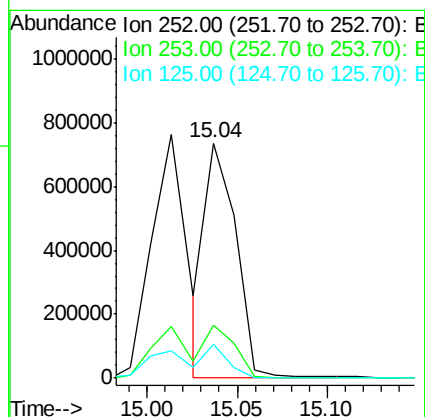
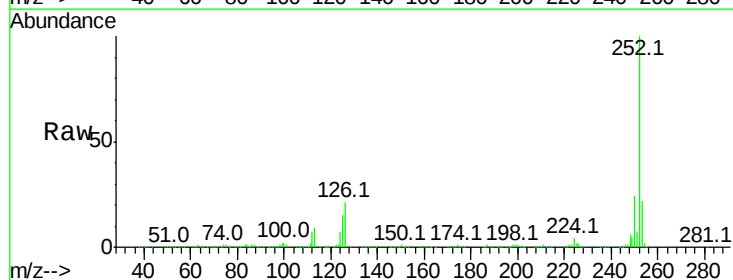
Manual Integrations  
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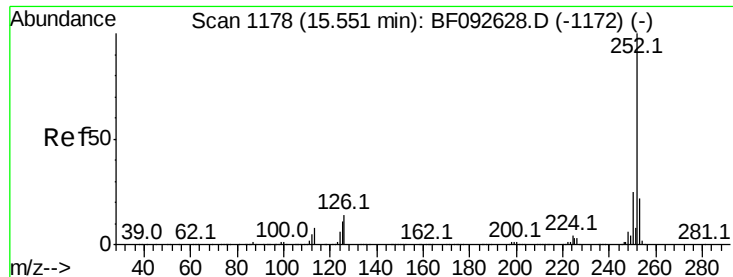
mohammad  
2/23/2017 1:16:18 PM



#88  
Benzo(k)fluoranthene  
Concen: 47.39 ng m  
RT: 15.04 min Scan# 1133  
Delta R.T. -0.03 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 18.5  | 27.7  |
| 125     | 14.5  | 8.9   | 13.3# |





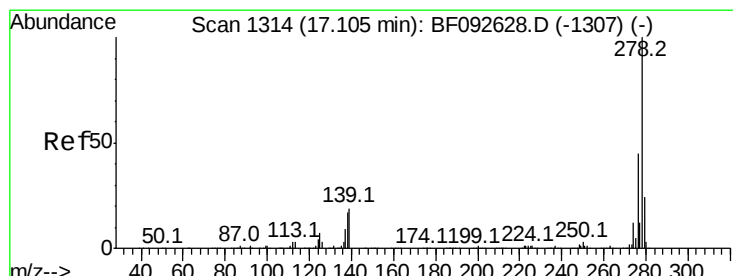
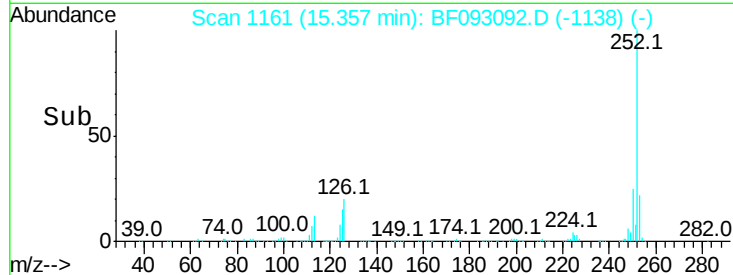
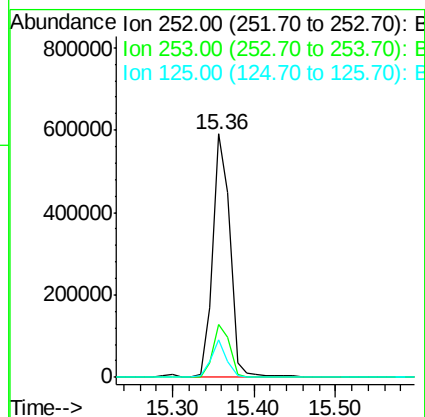
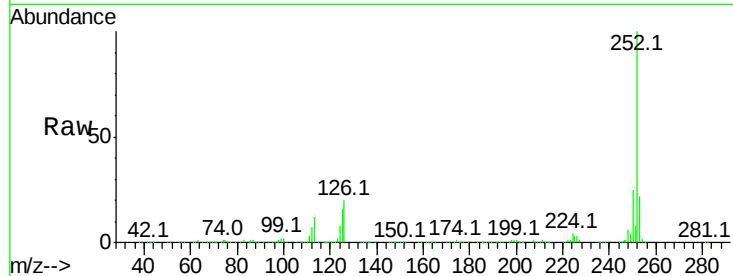
#89  
Benzo(a)pyrene  
Concen: 46.41 ng  
RT: 15.36 min Scan# 1161  
Delta R.T. -0.03 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

Instrument :  
BNA\_F  
ClientSampleId :  
P-5MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.2  | 27.2  |
| 125     | 15.5  | 10.0  | 15.0# |

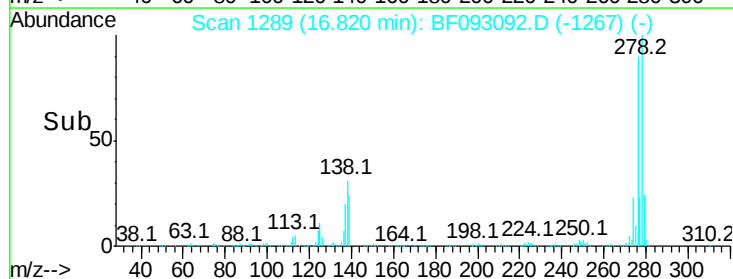
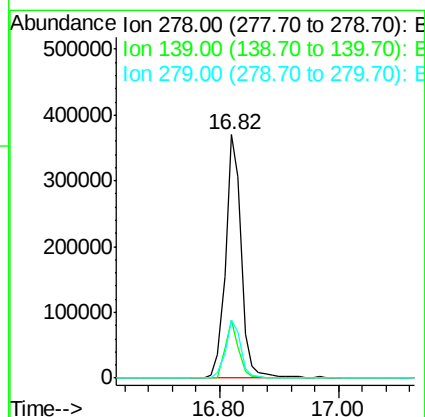
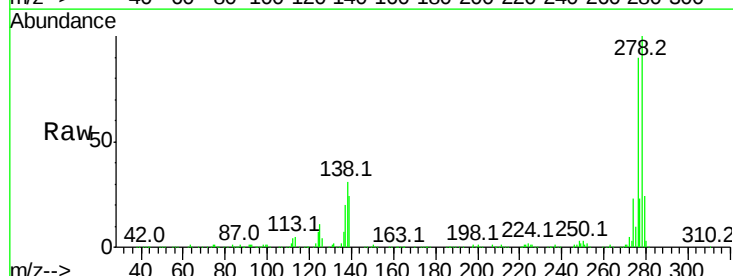
Manual Integrations  
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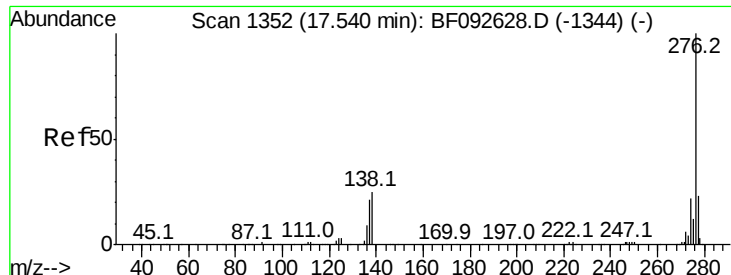
mohammad  
2/23/2017 1:16:18 PM



#90  
Dibenzo(a,h)anthracene  
Concen: 44.80 ng  
RT: 16.82 min Scan# 1289  
Delta R.T. -0.05 min  
Lab File: BF093092.D  
Acq: 22 Feb 2017 23:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.0  | 14.8  | 22.2# |
| 279     | 23.6  | 19.8  | 29.6  |





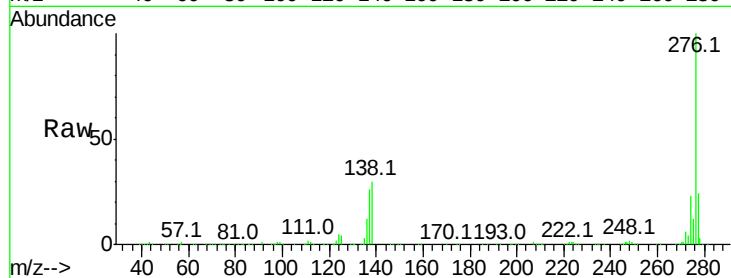
#91  
 Benzo(a,h,i)perylene  
 Concen: 45.60 ng  
 RT: 17.23 min Scan# 1325  
 Delta R.T. -0.06 min  
 Lab File: BF093092.D  
 Acq: 22 Feb 2017 23:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P-5MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 277     | 24.1  | 19.2       | 28.8  |
| 138     | 29.6  | 16.0       | 24.0  |

Manual Integrations  
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Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

