

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020916\  
 Data File : BF084958.D  
 Acq On : 9 Feb 2016 18:06  
 Operator : SJ/IZ  
 Sample : H1386-03MSD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

Manual Integrations  
 APPROVED

Sohil  
 2/10/2016 1:45:03 PM

Quant Time: Feb 10 04:13:49 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.64  | 152  | 149443   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 7.93  | 136  | 623574   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.68  | 164  | 301426   | 20.00 | ng    | -0.06    |
| 63) Phenanthrene-d10      | 11.15 | 188  | 556288   | 20.00 | ng    | -0.06    |
| 75) Chrysene-d12          | 13.78 | 240  | 408695   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12          | 15.14 | 264  | 321731   | 20.00 | ng    | -0.07    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.23  | 112 | 1192729 | 124.31 | ng | -0.05 |
| 7) Phenol-d6             | 6.29  | 99  | 1610403 | 135.39 | ng | -0.05 |
| 23) Nitrobenzene-d5      | 7.21  | 82  | 953359  | 86.12  | ng | -0.06 |
| 41) 2,4,6-Tribromophenol | 10.46 | 330 | 396582  | 126.13 | ng | -0.06 |
| 44) 2-Fluorobiphenyl     | 9.00  | 172 | 1494168 | 82.71  | ng | -0.06 |
| 78) Terphenyl-d14        | 12.74 | 244 | 1682976 | 93.31  | ng | -0.06 |

## Target Compounds

|                                |      |     |         |       |    | Qvalue |
|--------------------------------|------|-----|---------|-------|----|--------|
| 2) 1,4-Dioxane                 | 2.17 | 88  | 162317  | 38.62 | ng | # 77   |
| 3) Pyridine                    | 2.81 | 79  | 526908  | 48.12 | ng | # 70   |
| 4) n-Nitrosodimethylamine      | 2.77 | 42  | 261312  | 46.14 | ng | # 80   |
| 6) Aniline                     | 6.30 | 93  | 281077  | 19.31 | ng | # 2    |
| 8) 2-Chlorophenol              | 6.42 | 128 | 477167  | 43.94 | ng | 87     |
| 9) Benzaldehyde                | 6.18 | 77  | 140776  | 20.04 | ng | 93     |
| 10) Phenol                     | 6.30 | 94  | 525147  | 39.41 | ng | # 74   |
| 11) bis(2-Chloroethyl)ether    | 6.38 | 93  | 514880  | 49.55 | ng | 90     |
| 12) 1,3-Dichlorobenzene        | 6.57 | 146 | 478030m | 41.66 | ng |        |
| 13) 1,4-Dichlorobenzene        | 6.65 | 146 | 479447  | 41.80 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 6.81 | 146 | 487168  | 45.60 | ng | 98     |
| 15) Benzyl Alcohol             | 6.80 | 79  | 440873  | 53.68 | ng | 95     |
| 16) 2,2'-oxybis(1-Chloropropan | 6.93 | 45  | 761525  | 43.57 | ng | 89     |
| 17) 2-Methylphenol             | 6.92 | 107 | 411734  | 47.94 | ng | # 89   |
| 18) Hexachloroethane           | 7.15 | 117 | 190910  | 43.22 | ng | # 85   |
| 19) n-Nitroso-di-n-propylamine | 7.07 | 70  | 361224  | 48.45 | ng | # 78   |
| 20) 3+4-Methylphenols          | 7.07 | 107 | 512846  | 48.11 | ng | # 85   |
| 22) Acetophenone               | 7.06 | 105 | 699893  | 42.59 | ng | 98     |
| 24) Nitrobenzene               | 7.23 | 77  | 571133  | 48.18 | ng | 96     |
| 25) Isophorone                 | 7.47 | 82  | 946060  | 43.95 | ng | 99     |
| 26) 2-Nitrophenol              | 7.55 | 139 | 276014  | 47.21 | ng | 93     |
| 27) 2,4-Dimethylphenol         | 7.60 | 122 | 431477  | 42.43 | ng | 93     |
| 28) bis(2-Chloroethoxy)methane | 7.69 | 93  | 575680  | 45.08 | ng | 99     |
| 29) 2,4-Dichlorophenol         | 7.79 | 162 | 394855  | 45.38 | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 7.87 | 180 | 430681  | 43.82 | ng | # 95   |
| 31) Naphthalene                | 7.95 | 128 | 1374810 | 43.95 | ng | 98     |
| 32) Benzoic acid               | 7.71 | 122 | 94519   | 14.53 | ng | 92     |
| 33) 4-Chloroaniline            | 8.01 | 127 | 137905  | 10.66 | ng | # 91   |
| 34) Hexachlorobutadiene        | 8.06 | 225 | 230033  | 40.59 | ng | 99     |
| 35) Caprolactam                | 8.38 | 113 | 130186m | 48.54 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 8.51 | 107 | 498366  | 50.21 | ng | 95     |
| 37) 2-Methylnaphthalene        | 8.64 | 142 | 907016  | 46.33 | ng | 97     |
| 39) 1,2,4,5-Tetrachlorobenzene | 8.81 | 216 | 397468  | 41.52 | ng | 99     |
| 40) Hexachlorocyclopentadiene  | 8.78 | 237 | 292398  | 72.11 | ng | 98     |

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 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 8.92  | 196  | 268737   | 43.57 | nq    | 96       |
| 43) 2,4,5-Trichlorophenol      | 8.97  | 196  | 277178   | 44.23 | nq #  | 89       |
| 45) 1,1'-Biphenyl              | 9.10  | 154  | 1175384  | 43.66 | nq    | 96       |
| 46) 2-Chloronaphthalene        | 9.13  | 162  | 860491   | 43.40 | nq #  | 88       |
| 47) 2-Nitroaniline             | 9.23  | 65   | 318043   | 50.66 | nq    | 90       |
| 48) Acenaphthylene             | 9.54  | 152  | 1340047  | 44.54 | nq    | 98       |
| 49) Dimethylphthalate          | 9.41  | 163  | 1212962  | 52.83 | nq #  | 90       |
| 50) 2,6-Dinitrotoluene         | 9.47  | 165  | 202131   | 40.30 | nq #  | 43       |
| 51) Acenaphthene               | 9.71  | 154  | 827429   | 42.27 | nq    | 98       |
| 52) 3-Nitroaniline             | 9.64  | 138  | 129584   | 22.99 | nq #  | 72       |
| 53) 2,4-Dinitrophenol          | 9.76  | 184  | 186664   | 80.59 | nq    | 86       |
| 54) Dibenzofuran               | 9.88  | 168  | 1160602  | 48.51 | nq    | 96       |
| 55) 4-Nitrophenol              | 9.82  | 139  | 287141   | 69.33 | nq #  | 77       |
| 56) 2,4-Dinitrotoluene         | 9.88  | 165  | 308938   | 48.30 | nq    | 92       |
| 57) Fluorene                   | 10.22 | 166  | 880081   | 44.05 | nq    | 100      |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.01 | 232  | 232215   | 48.68 | nq #  | 88       |
| 59) Diethylphthalate           | 10.11 | 149  | 953771   | 42.55 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.21 | 204  | 375294   | 44.66 | nq    | 92       |
| 61) 4-Nitroaniline             | 10.26 | 138  | 261713   | 47.66 | nq    | 86       |
| 62) Azobenzene                 | 10.37 | 77   | 972876   | 45.13 | nq    | 89       |
| 64) 4,6-Dinitro-2-methylphenol | 10.28 | 198  | 142772   | 41.58 | nq #  | 51       |
| 65) n-Nitrosodiphenylamine     | 10.34 | 169  | 792545   | 44.87 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 10.70 | 248  | 281242   | 45.77 | nq    | 95       |
| 67) Hexachlorobenzene          | 10.76 | 284  | 267323   | 39.93 | nq #  | 85       |
| 68) Atrazine                   | 10.88 | 200  | 292709   | 52.47 | nq    | 97       |
| 69) Pentachlorophenol          | 10.97 | 266  | 255642   | 81.25 | nq    | 98       |
| 70) Phenanthrene               | 11.17 | 178  | 1275098  | 41.33 | nq    | 98       |
| 71) Anthracene                 | 11.23 | 178  | 1448913  | 46.60 | nq    | 100      |
| 72) Carbazole                  | 11.39 | 167  | 1307807  | 48.24 | nq    | 98       |
| 73) Di-n-butylphthalate        | 11.72 | 149  | 1399605  | 40.55 | nq #  | 96       |
| 74) Fluoranthene               | 12.35 | 202  | 1358817  | 43.51 | nq    | 98       |
| 76) Benzidine                  | 12.49 | 184  | 438137   | 30.36 | nq    | 96       |
| 77) Pyrene                     | 12.58 | 202  | 1257488  | 40.19 | nq    | 99       |
| 79) Butylbenzylphthalate       | 13.22 | 149  | 653700   | 46.05 | nq #  | 88       |
| 80) Benzo(a)anthracene         | 13.77 | 228  | 1130825  | 44.58 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 13.73 | 252  | 154306   | 17.18 | nq #  | 96       |
| 82) Chrysene                   | 13.80 | 228  | 841087   | 34.19 | nq    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 13.78 | 149  | 805523   | 45.60 | nq #  | 98       |
| 84) Di-n-octyl phthalate       | 14.39 | 149  | 1212035  | 41.59 | nq #  | 87       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.40 | 276  | 835080   | 43.13 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 14.77 | 252  | 1050344m | 48.59 | nq    |          |
| 88) Benzo(k)fluoranthene       | 14.80 | 252  | 710757m  | 39.77 | nq    |          |
| 89) Benzo(a)pyrene             | 15.08 | 252  | 796788   | 43.26 | nq #  | 96       |
| 90) Dibenzo(a,h)anthracene     | 16.41 | 278  | 691392   | 44.59 | nq #  | 95       |
| 91) Benzo(g,h,i)perylene       | 16.77 | 276  | 712182   | 45.60 | nq    | 97       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 398

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

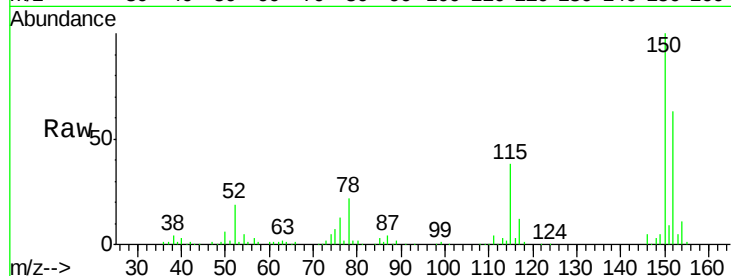
ClientSampleId :

S4-B005(28-30)MSD

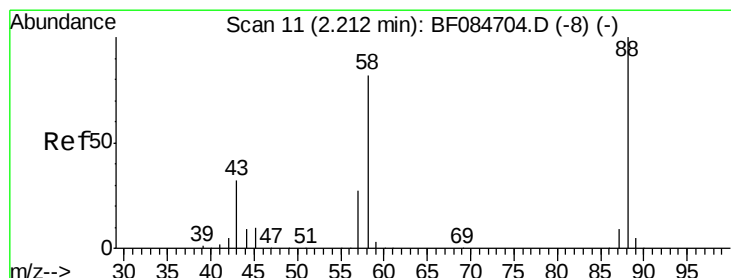
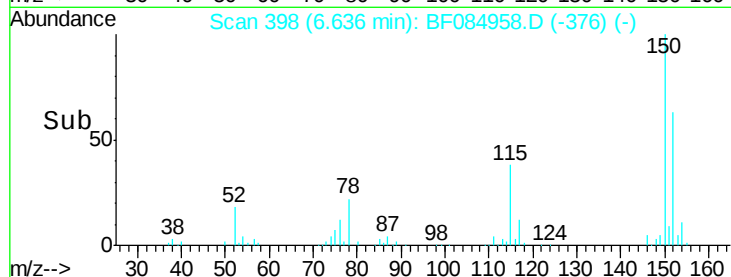
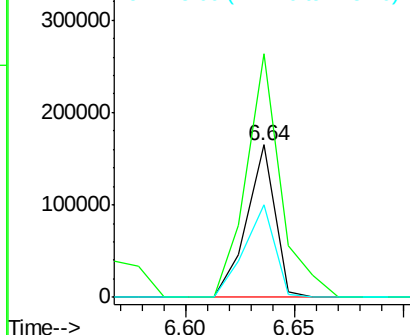
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 149443 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 159.5 | 123.0 | 184.4  |
| 115       | 60.9  | 51.4  | 77.2   |

Manual Integrations  
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 38.62 ng

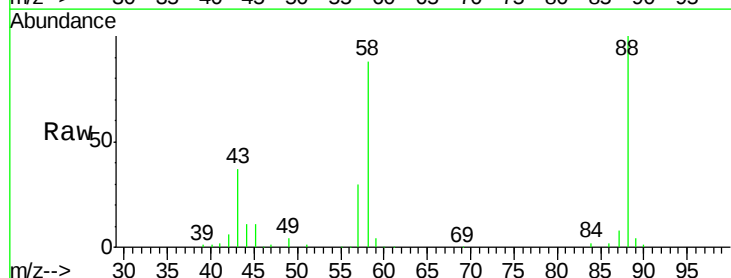
RT: 2.17 min Scan# 7

Delta R.T. -0.01 min

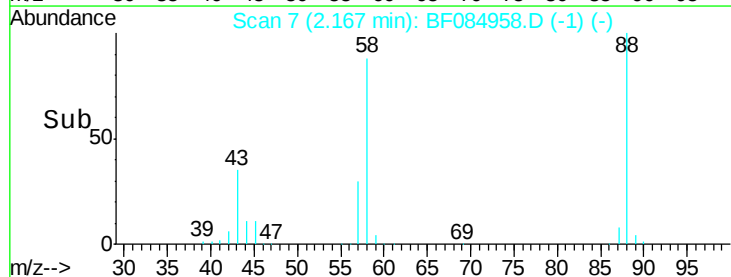
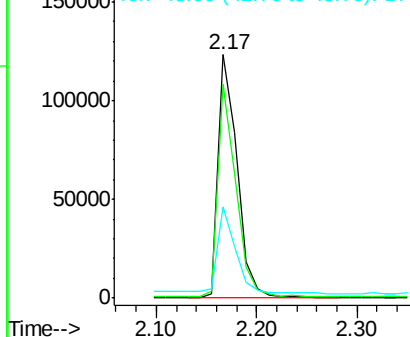
Lab File: BF084958.D

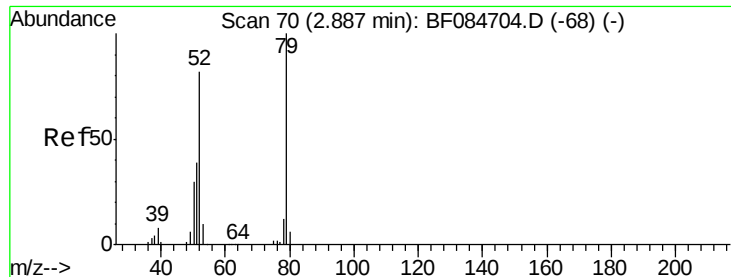
Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 88    | Resp: | 162317 |
| Ion Ratio | Lower | Upper |        |
| 88        | 100   |       |        |
| 58        | 82.4  | 51.2  | 76.8#  |
| 43        | 35.0  | 19.5  | 29.3#  |



Abundance Ion 88.00 (87.70 to 88.70): BF0  
Ion 58.00 (57.70 to 58.70): BF0  
Ion 43.00 (42.70 to 43.70): BF0





#3

Pvridine

Concen: 48.12 ng

RT: 2.81 min Scan# 63

Delta R.T. -0.03 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

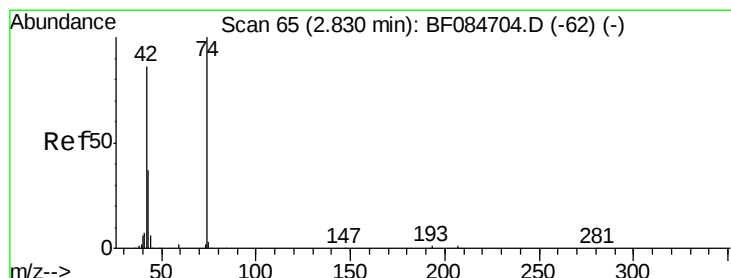
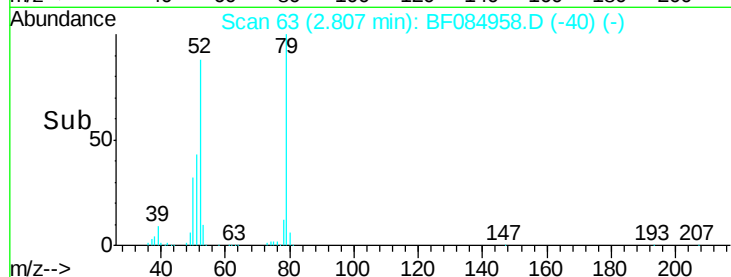
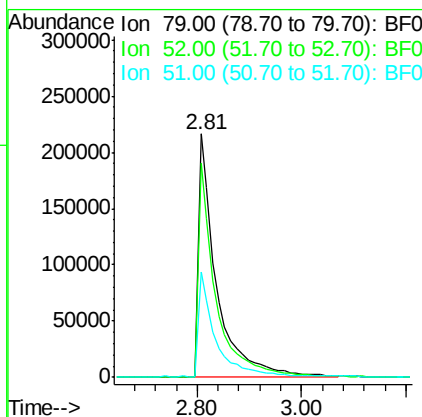
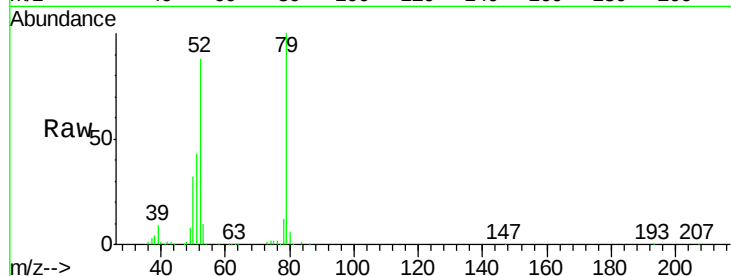
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 79    | Resp: | 526908 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 52        | 87.8  | 49.0  | 73.4#  |
| 51        | 43.2  | 25.2  | 37.8#  |

Manual Integrations  
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2/10/2016 1:45:03 PM



#4

n-Nitrosodimethylamine

Concen: 46.14 ng

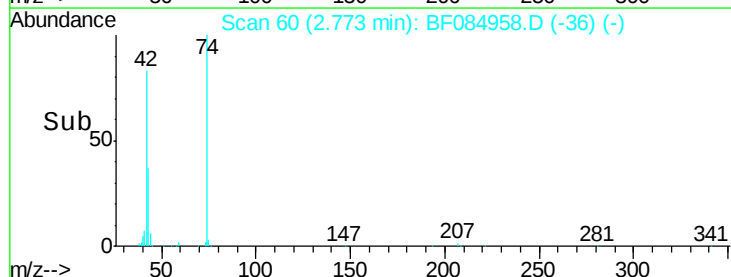
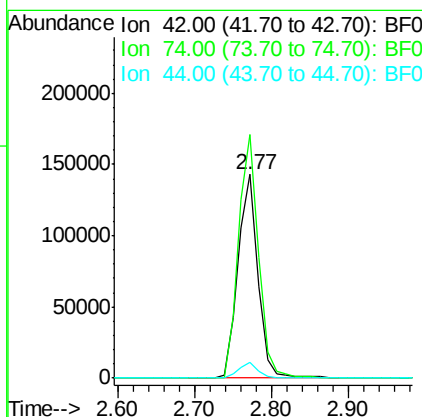
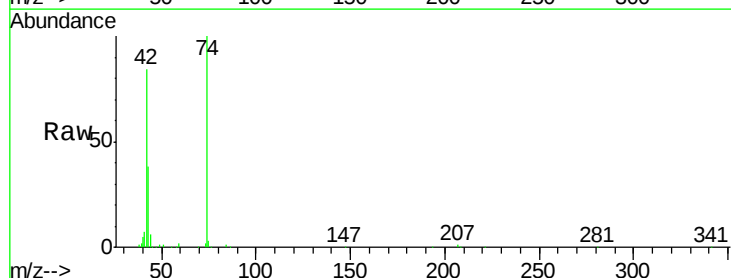
RT: 2.77 min Scan# 60

Delta R.T. -0.02 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 261312 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 74        | 119.5 | 115.7 | 173.5  |
| 44        | 7.7   | 5.1   | 7.7#   |





#5

2-Fluorophenol

Concen: 124.31 ng

RT: 5.23 min Scan# 275

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion: 112 Resp: 1192729

Ion Ratio Lower Upper

112 100

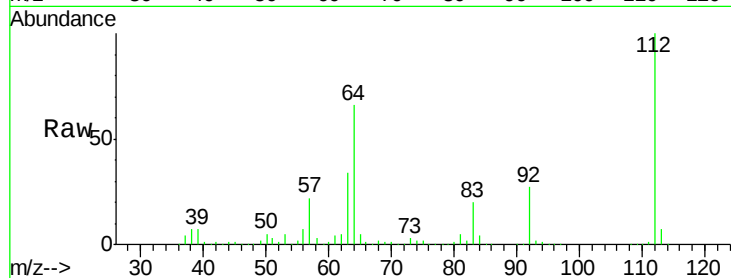
64 66.1 36.6 55.0#

63 34.0 19.4 29.0#

Manual Integrations  
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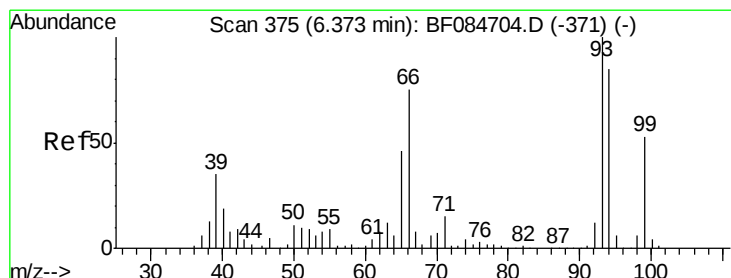
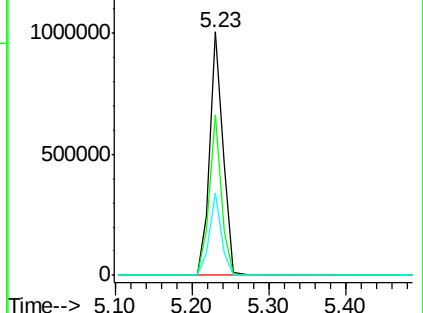
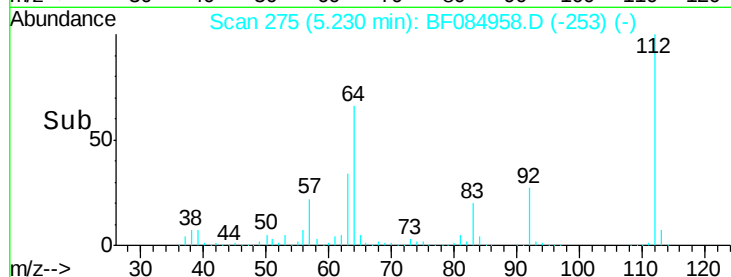
2/10/2016 1:45:03 PM



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#6

Aniline

Concen: 19.31 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

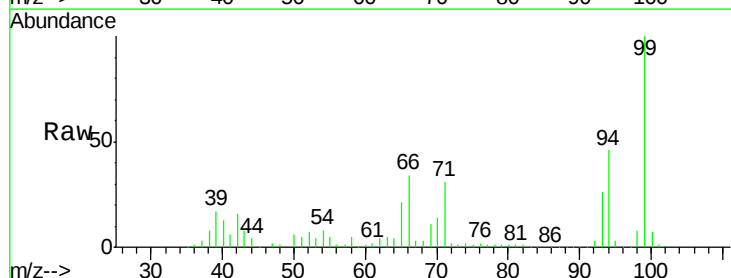
Tgt Ion: 93 Resp: 281077

Ion Ratio Lower Upper

93 100

66 129.5 44.9 67.3#

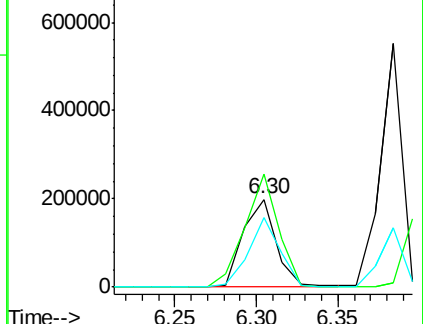
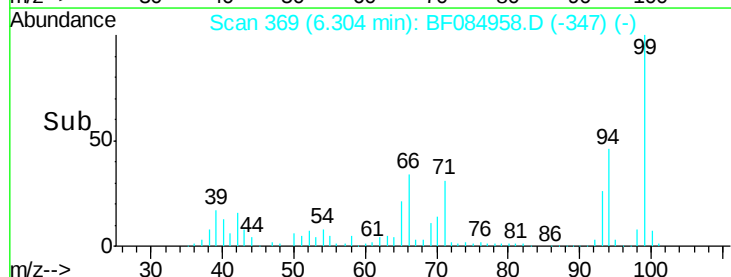
65 79.3 23.7 35.5#

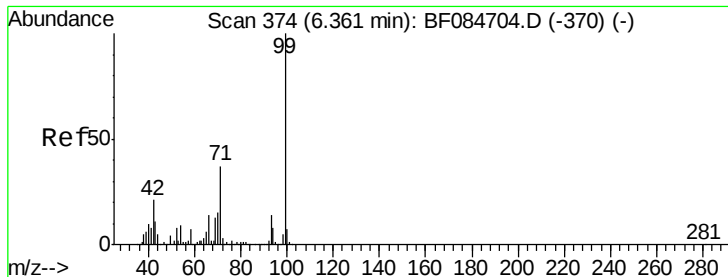


Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0





#7

Phenol-d6

Concen: 135.39 ng

RT: 6.29 min Scan# 368

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion: 99 Resp: 1610403

Ion Ratio Lower Upper

99 100

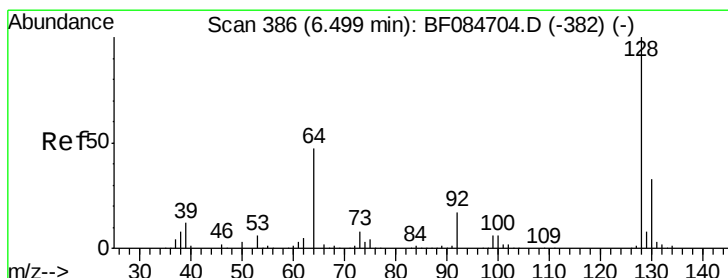
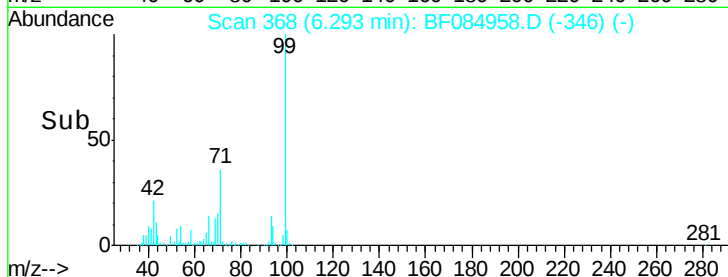
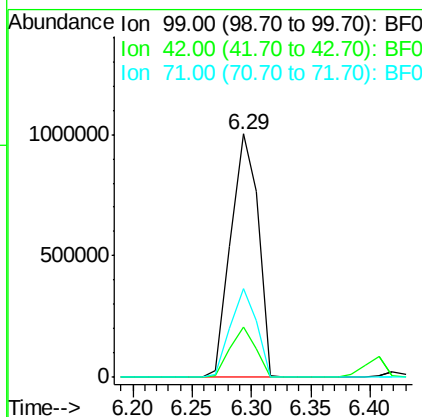
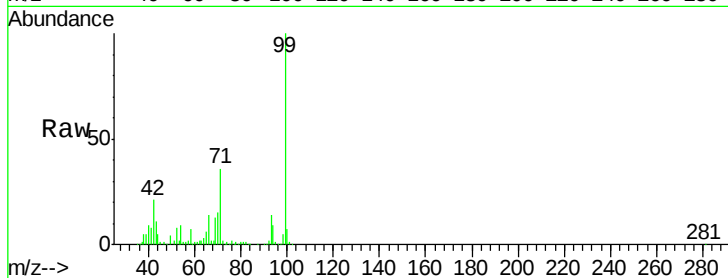
42 20.7 12.8 19.2#

71 36.4 30.9 46.3

Manual Integrations  
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2/10/2016 1:45:03 PM



#8

2-Chlorophenol

Concen: 43.94 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

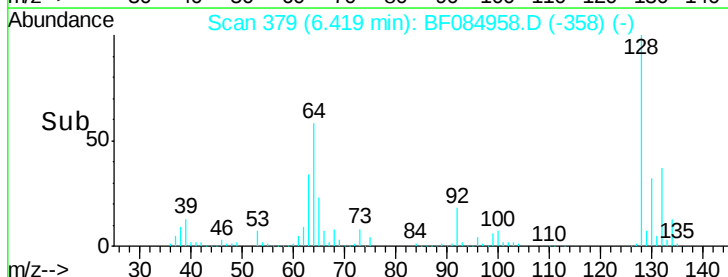
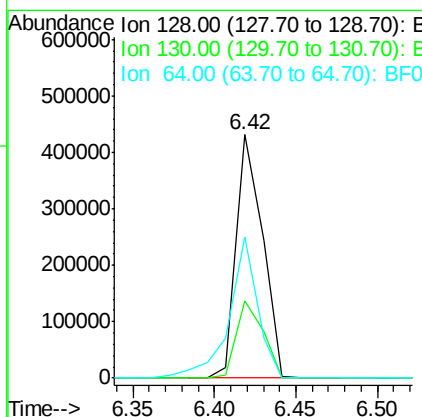
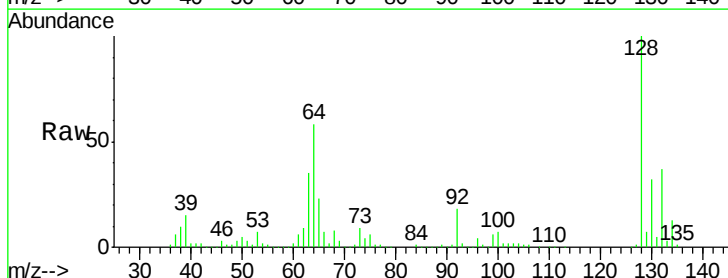
Tgt Ion: 128 Resp: 477167

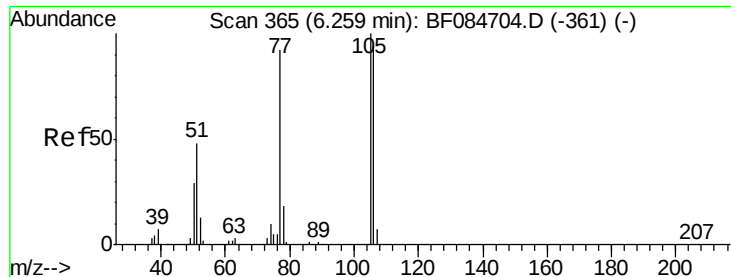
Ion Ratio Lower Upper

128 100

130 31.9 11.6 51.6

64 58.0 23.8 63.8





#9

Benzaldehyde

Concen: 20.04 ng

RT: 6.18 min Scan# 358

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

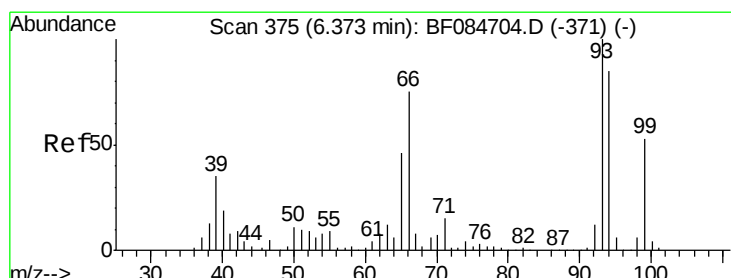
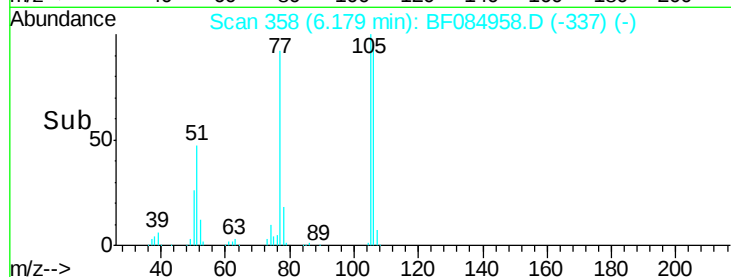
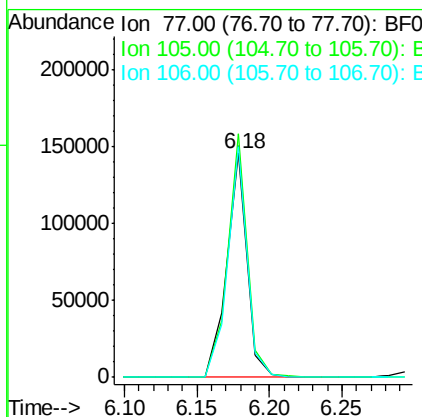
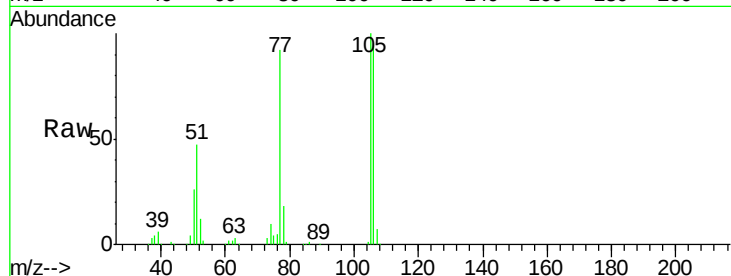
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 77    | Resp: | 140776 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 108.6 | 83.0  | 123.0  |
| 106       | 103.1 | 74.6  | 114.6  |

Manual Integrations  
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Sohil  
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#10

Phenol

Concen: 39.41 ng

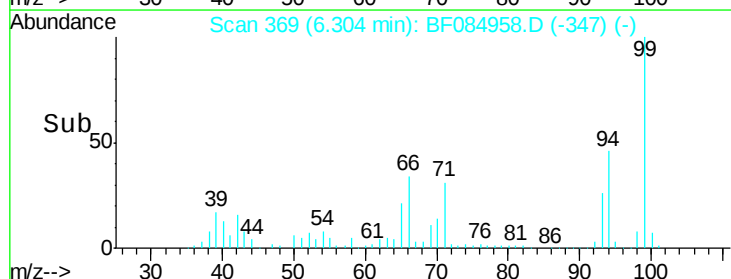
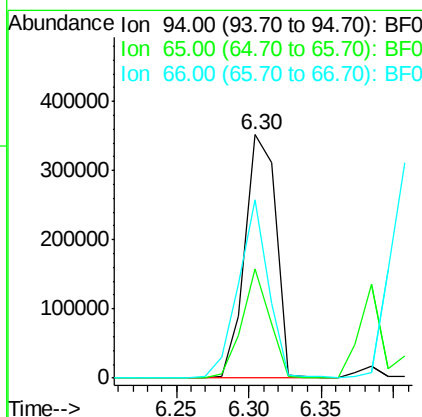
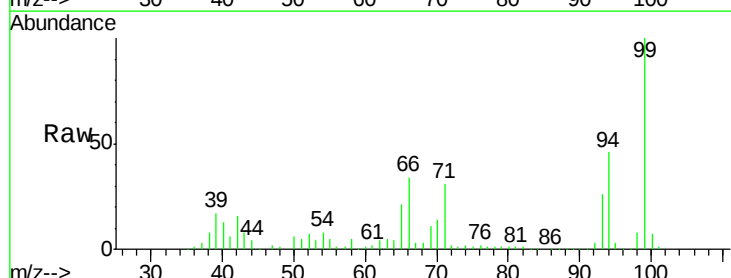
RT: 6.30 min Scan# 369

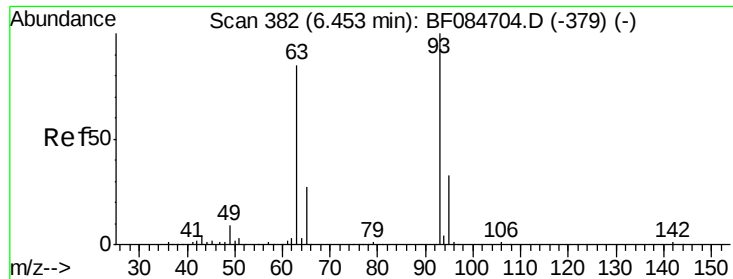
Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 525147 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 44.7  | 12.9  | 52.9   |
| 66        | 73.0  | 32.7  | 72.7#  |





#11

bis(2-Chloroethyl)ether

Concen: 49.55 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

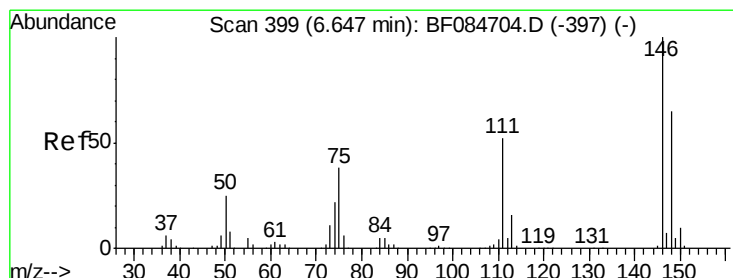
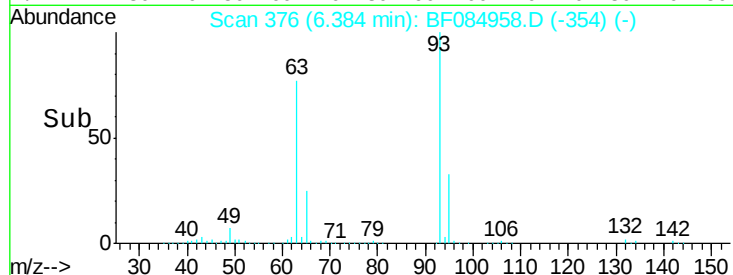
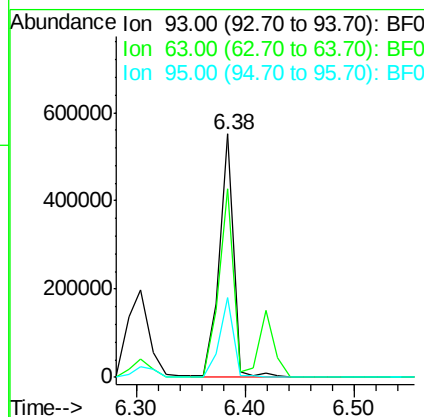
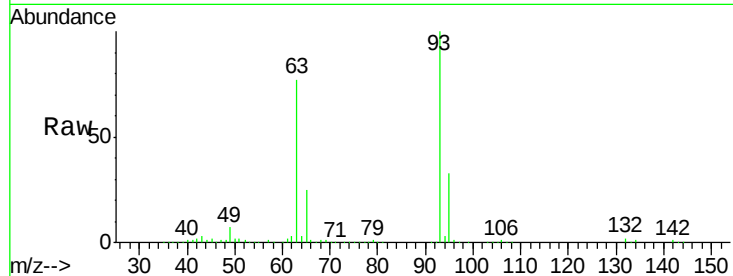
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 93    | Resp: | 514880 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 77.4  | 45.9  | 85.9   |
| 95        | 32.7  | 12.3  | 52.3   |

Manual Integrations  
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Sohil  
2/10/2016 1:45:03 PM



#12

1,3-Dichlorobenzene

Concen: 41.66 ng m

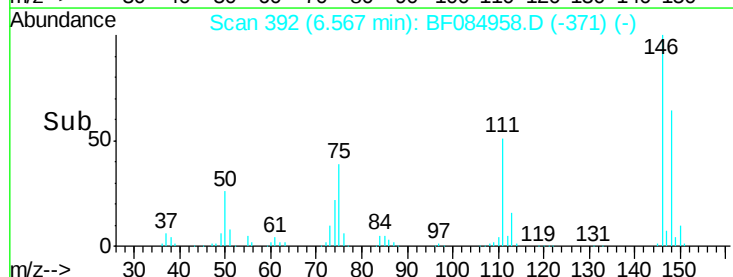
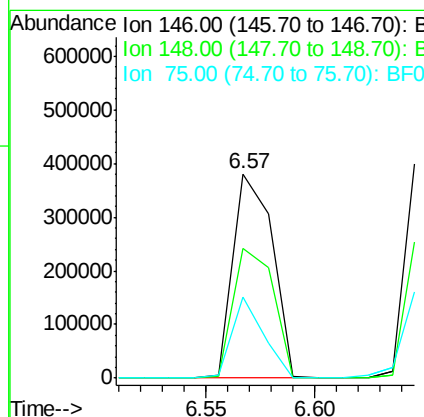
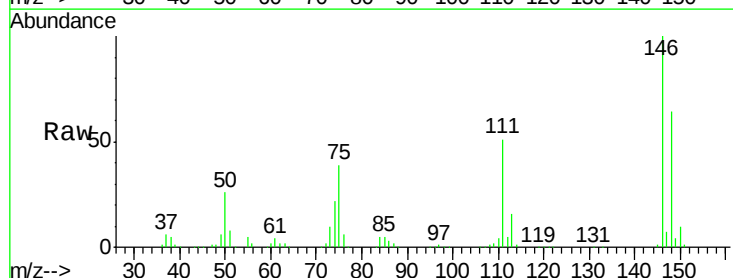
RT: 6.57 min Scan# 392

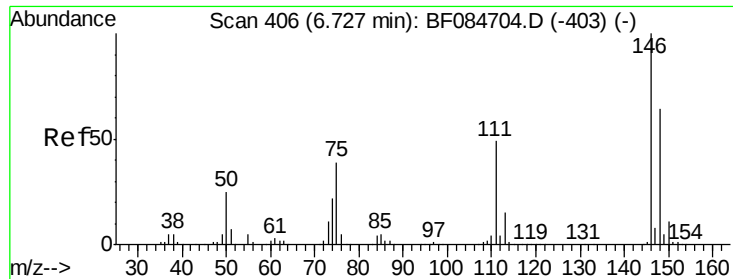
Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 478030 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 63.6  | 51.9  | 77.9   |
| 75        | 39.4  | 20.5  | 30.7#  |





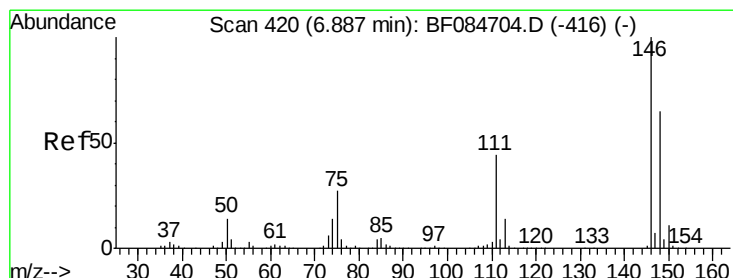
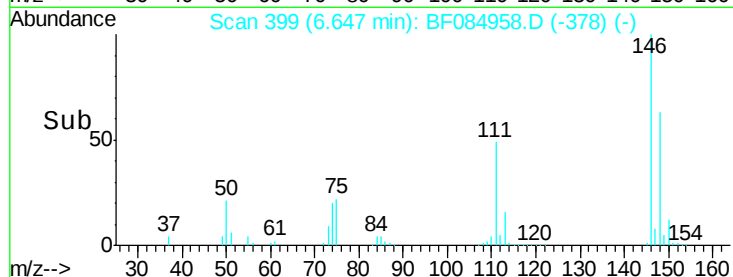
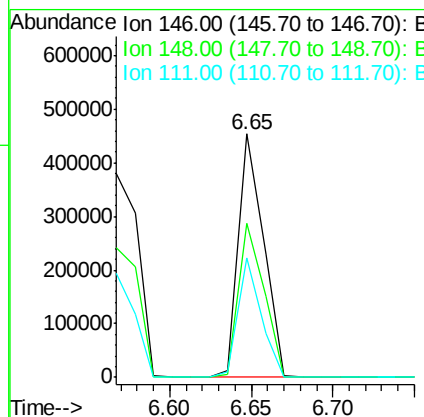
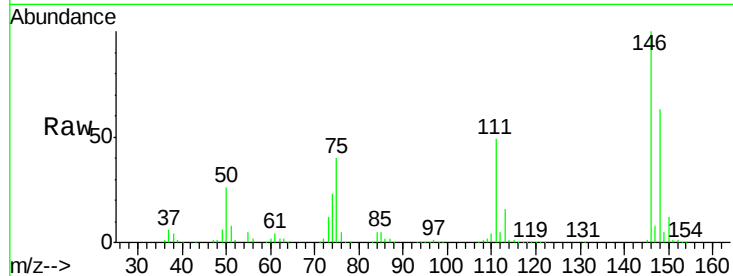
#13  
 1,4-Dichlorobenzene  
 Concen: 41.80 ng  
 RT: 6.65 min Scan# 399  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.4  | 51.9  | 77.9  |
| 111     | 49.1  | 41.6  | 62.4  |

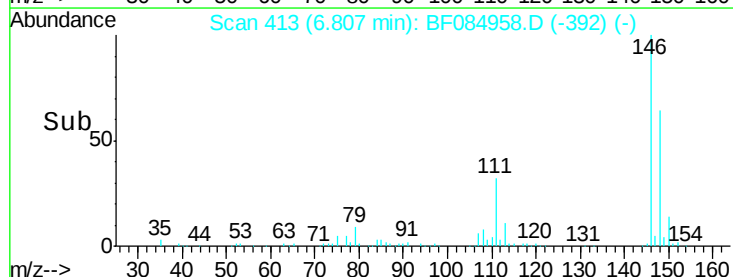
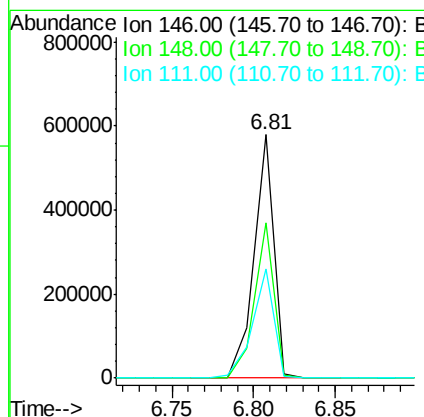
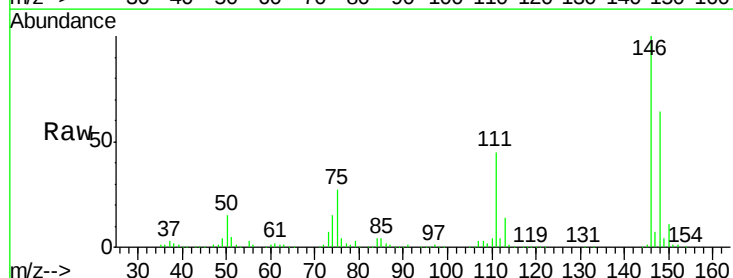
Manual Integrations  
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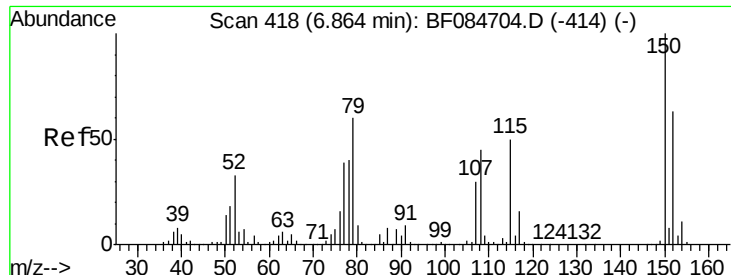
Sohil  
 2/10/2016 1:45:03 PM



#14  
 1,2-Dichlorobenzene  
 Concen: 45.60 ng  
 RT: 6.81 min Scan# 413  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.6  | 51.6  | 77.4  |
| 111     | 44.8  | 38.0  | 57.0  |





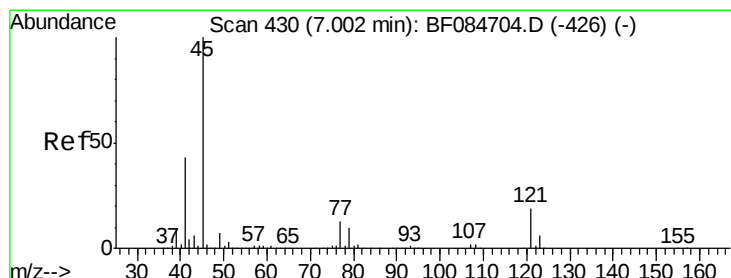
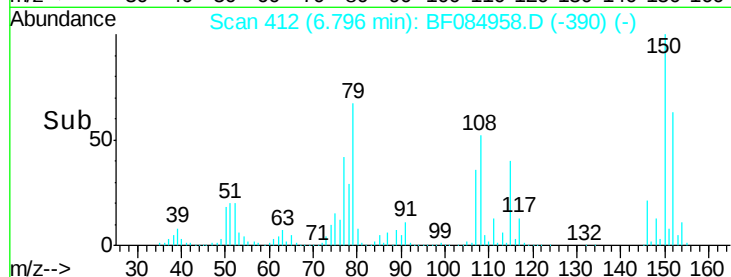
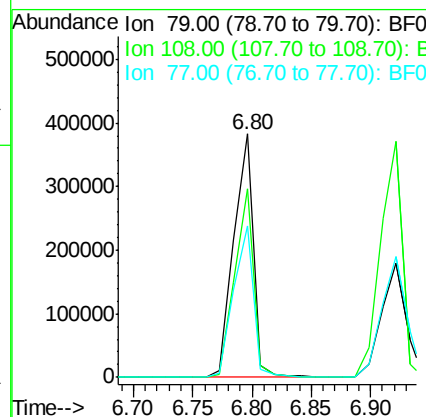
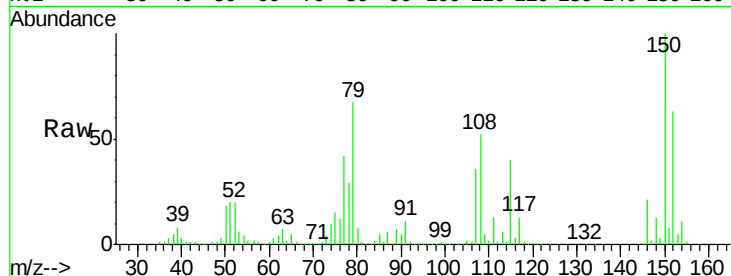
#15  
Benzyl Alcohol  
Concen: 53.68 ng  
RT: 6.80 min Scan# 412  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 77.6  | 69.0  | 103.4 |
| 77      | 62.4  | 50.0  | 75.0  |

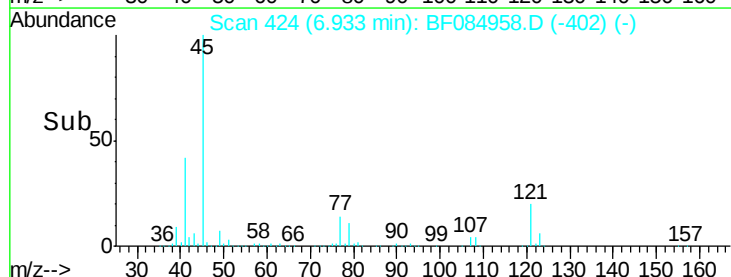
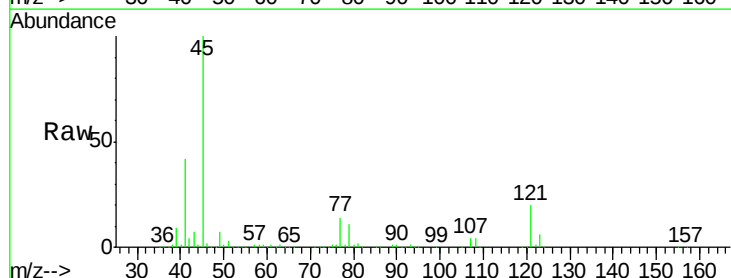
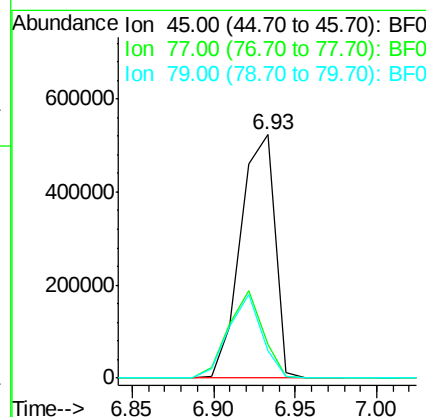
Manual Integrations  
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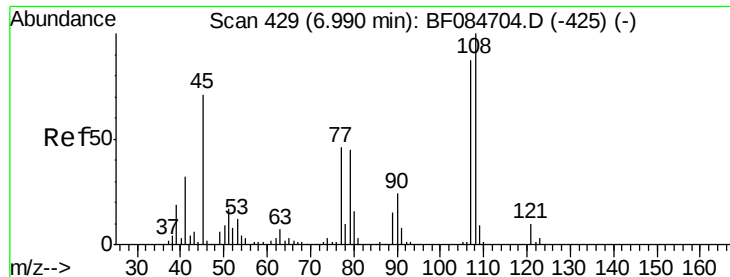
Sohil  
2/10/2016 1:45:03 PM



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 43.57 ng  
RT: 6.93 min Scan# 424  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 13.9  | 0.0   | 39.6  |
| 79      | 11.3  | 0.0   | 35.0  |





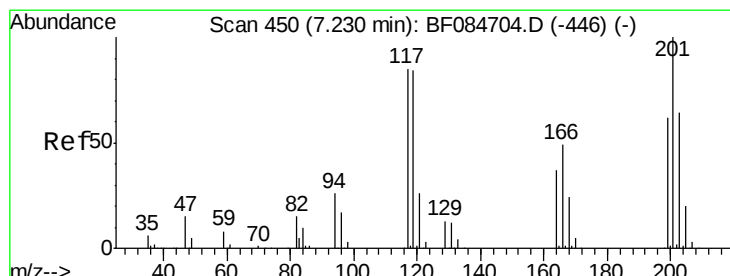
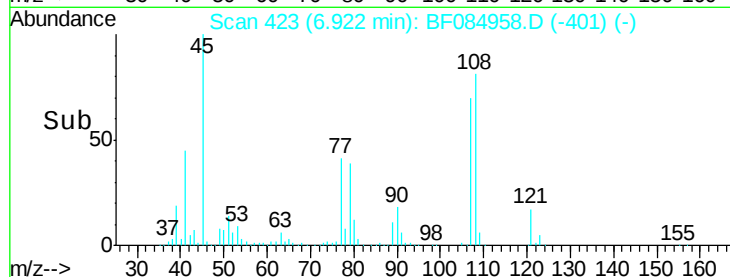
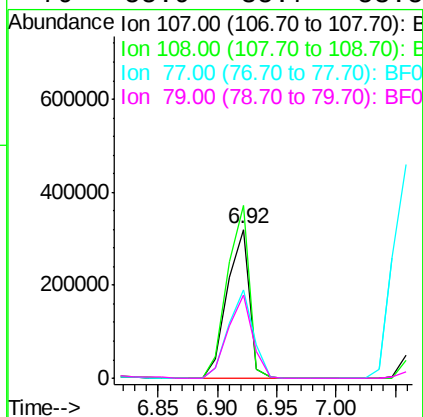
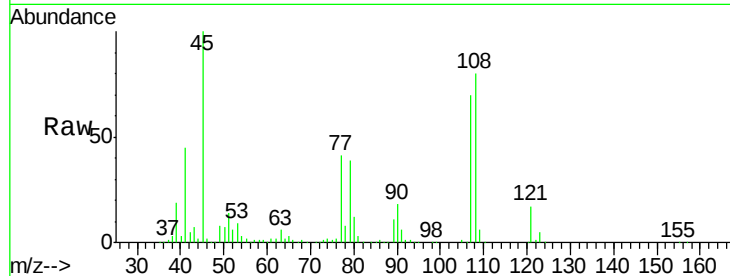
#17  
2-Methylphenol  
Concen: 47.94 ng  
RT: 6.92 min Scan# 423  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 115.6 | 89.8  | 134.6 |
| 77      | 59.0  | 35.7  | 53.5# |
| 79      | 55.9  | 35.7  | 53.5# |

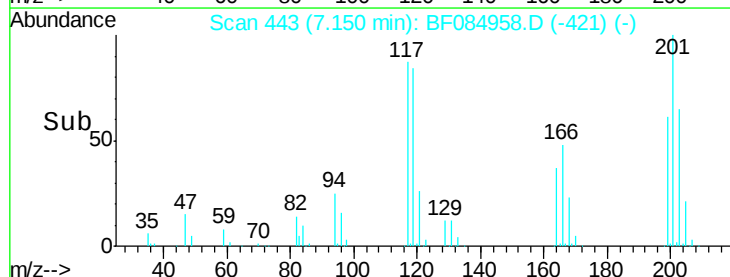
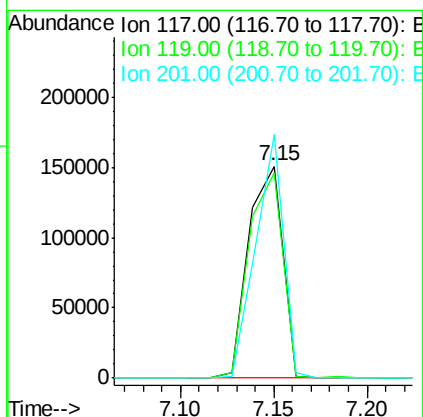
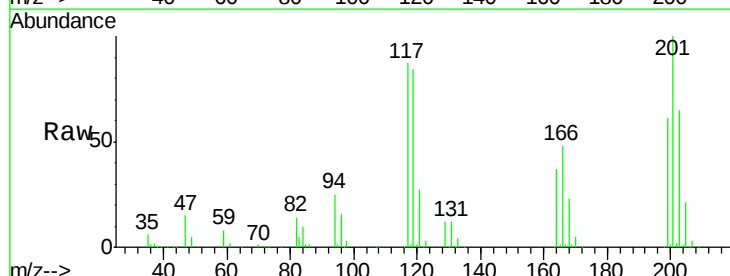
Manual Integrations  
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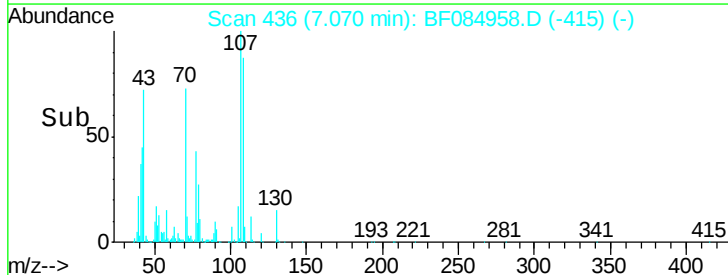
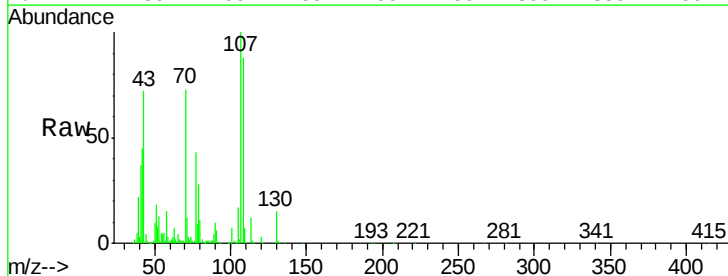
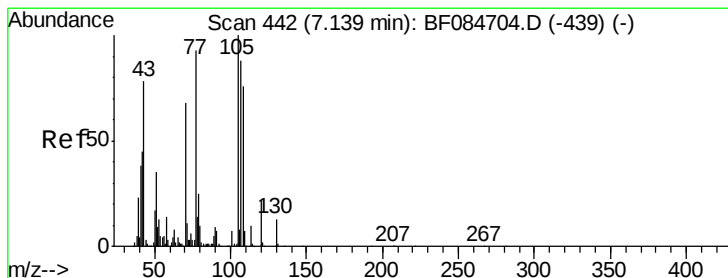
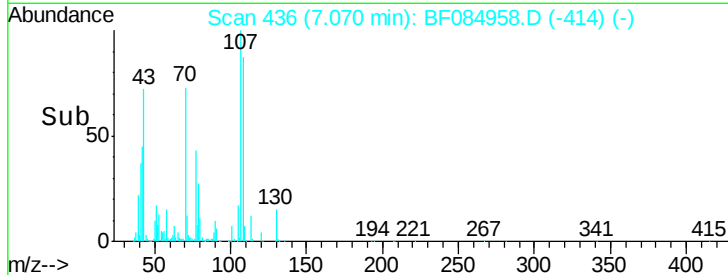
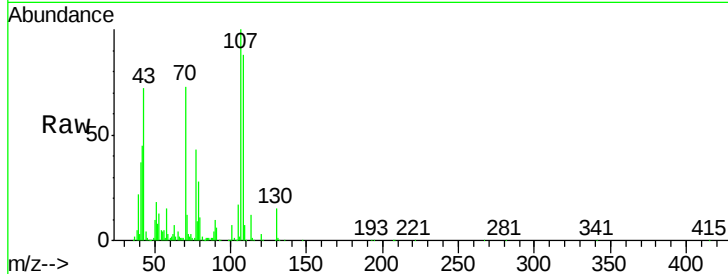
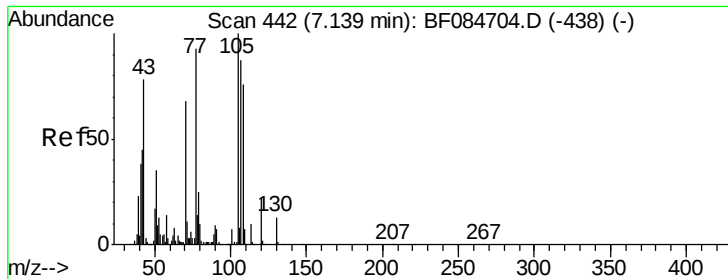
Sohil  
2/10/2016 1:45:03 PM



#18  
Hexachloroethane  
Concen: 43.22 ng  
RT: 7.15 min Scan# 443  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 96.7  | 77.4  | 116.0  |
| 201     | 114.8 | 68.6  | 103.0# |





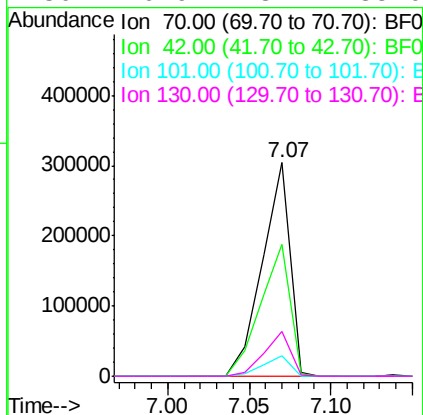
#19  
n-Nitroso-di-n-propylamine  
Concen: 48.45 ng  
RT: 7.07 min Scan# 436  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 61.6  | 33.3  | 49.9# |
| 101     | 9.8   | 9.3   | 13.9  |
| 130     | 20.9  | 23.4  | 35.0# |

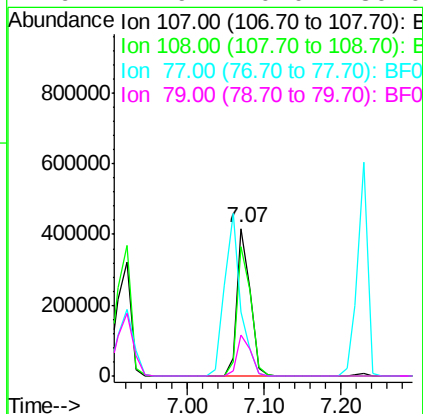
Manual Integrations  
APPROVED

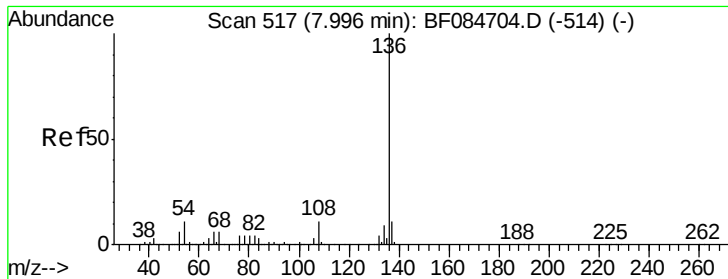
Sohil  
2/10/2016 1:45:03 PM



#20  
3+4-Methylphenols  
Concen: 48.11 ng  
RT: 7.07 min Scan# 436  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 87.5  | 74.6  | 114.6 |
| 77      | 43.2  | 0.7   | 40.7# |
| 79      | 27.9  | 0.0   | 39.0  |





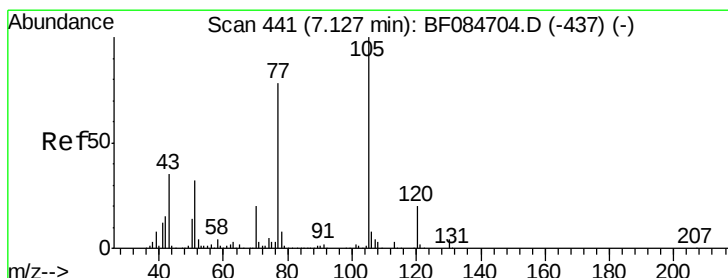
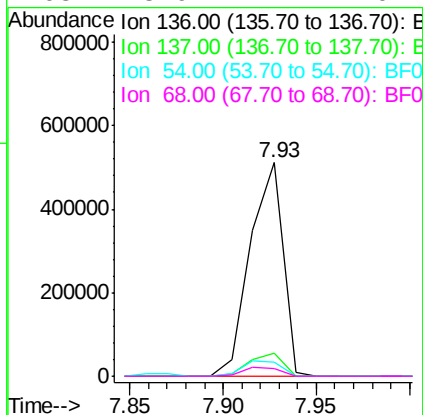
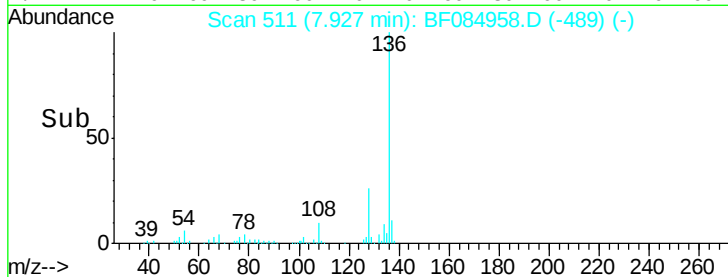
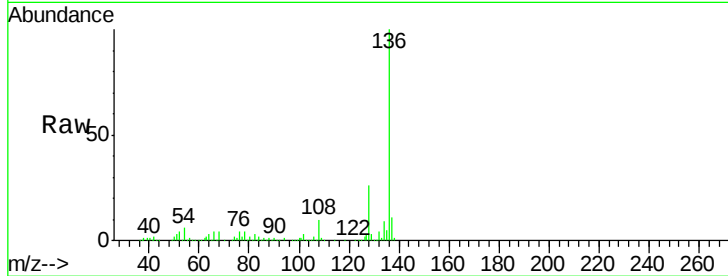
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.93 min Scan# 511  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 623574 |       |       |
| 137     | 10.9  | 8.7    | 13.1  |       |
| 54      | 6.4   | 5.8    | 8.8   |       |
| 68      | 3.9   | 4.2    | 6.2   |       |

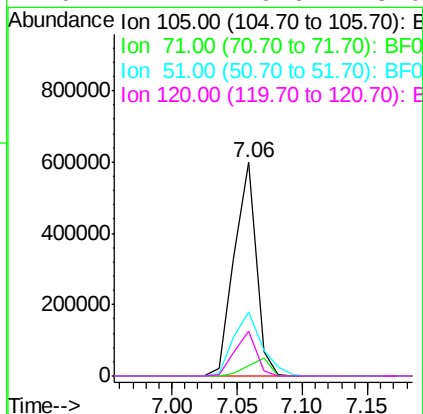
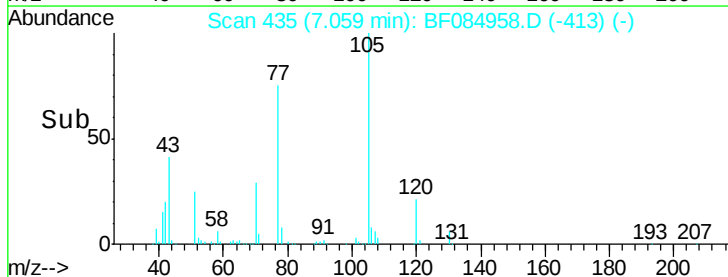
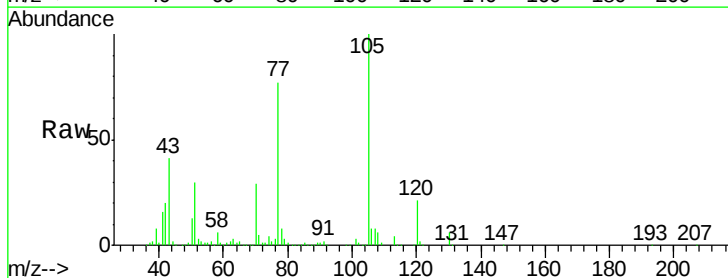
Manual Integrations  
APPROVED

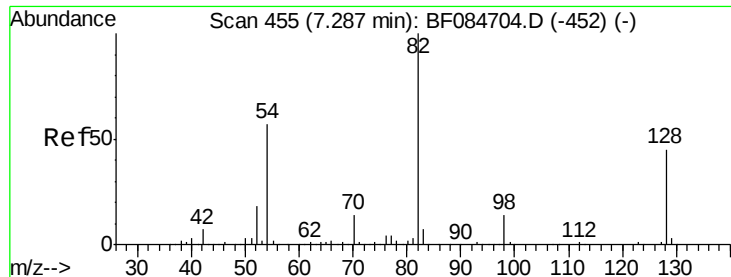
Sohil  
2/10/2016 1:45:03 PM



#22  
Acetophenone  
Concen: 42.59 ng  
RT: 7.06 min Scan# 435  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 699893 |       |       |
| 71      | 4.9   | 3.7    | 5.5   |       |
| 51      | 29.8  | 25.1   | 37.7  |       |
| 120     | 21.2  | 16.6   | 25.0  |       |





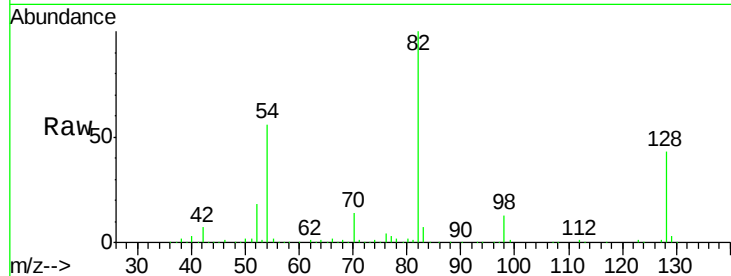
#23  
 Nitrobenzene-d5  
 Concen: 86.12 ng  
 RT: 7.21 min Scan# 448  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

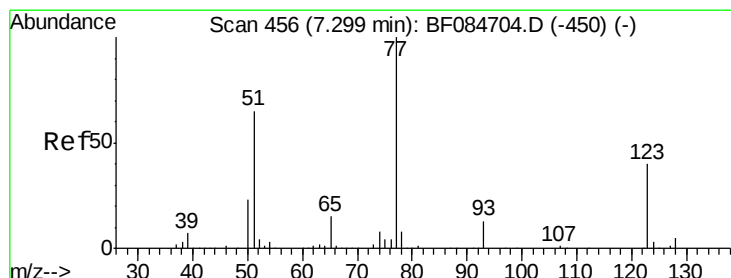
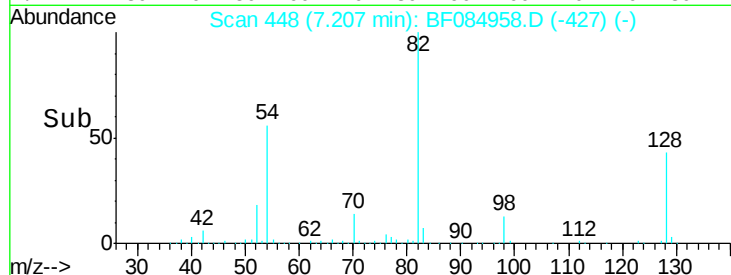
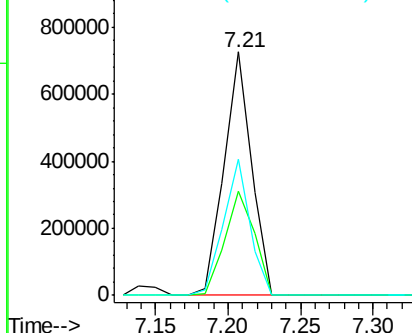
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 82   | Resp: | 953359 |
| Ion Ratio |      | Lower | Upper  |
| 82        | 100  |       |        |
| 128       | 42.6 | 34.6  | 51.8   |
| 54        | 56.0 | 38.4  | 57.6   |

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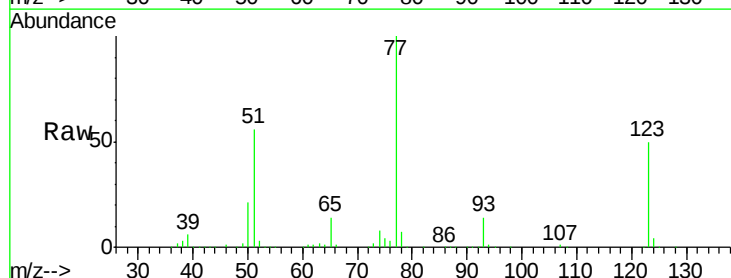


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF0

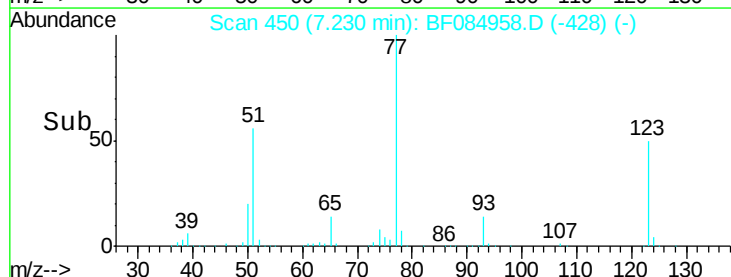
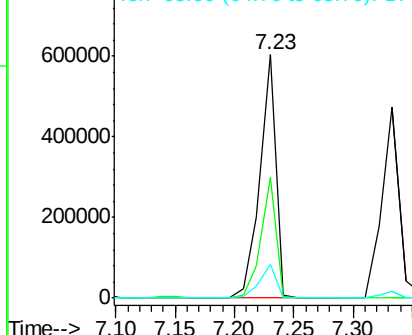


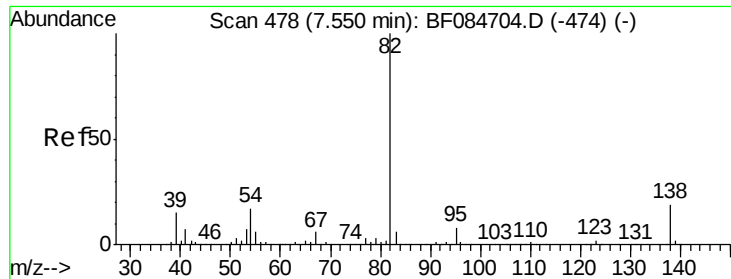
#24  
 Nitrobenzene  
 Concen: 48.18 ng  
 RT: 7.23 min Scan# 450  
 Delta R.T. -0.05 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 77   | Resp: | 571133 |
| Ion Ratio |      | Lower | Upper  |
| 77        | 100  |       |        |
| 123       | 49.8 | 37.4  | 56.2   |
| 65        | 14.0 | 10.9  | 16.3   |



Abundance Ion 77.00 (76.70 to 77.70): BF0  
 Ion 123.00 (122.70 to 123.70): B  
 Ion 65.00 (64.70 to 65.70): BF0





#25

Isophorone

Concen: 43.95 ng

RT: 7.47 min Scan# 471

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

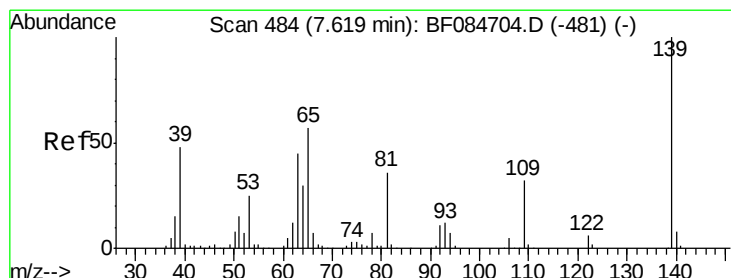
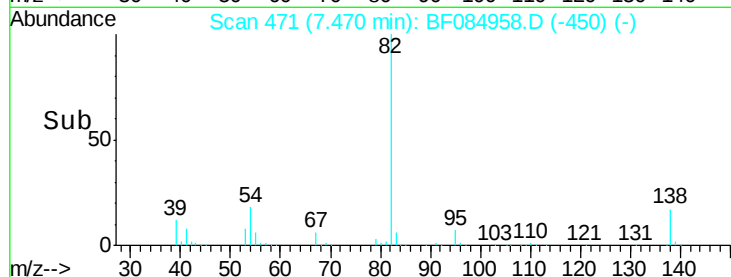
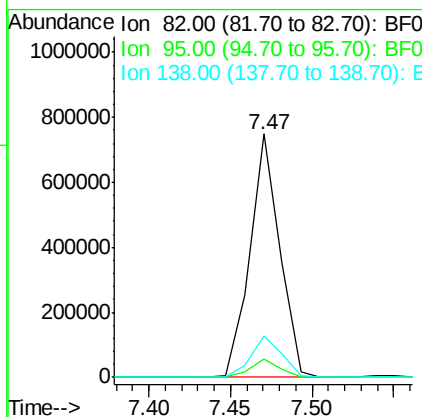
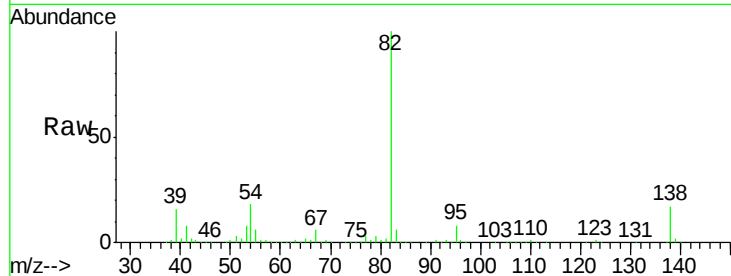
ClientSampleId :

S4-B005(28-30)MSD

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 82   | Resp: | 946060 |
| Ion Ratio |      | Lower | Upper  |
| 82        | 100  |       |        |
| 95        | 7.5  | 6.6   | 10.0   |
| 138       | 16.9 | 13.6  | 20.4   |

Manual Integrations  
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#26

2-Nitrophenol

Concen: 47.21 ng

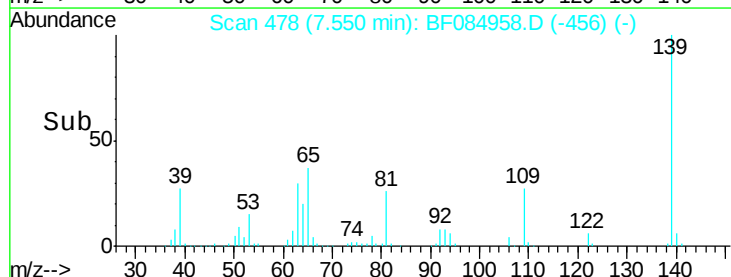
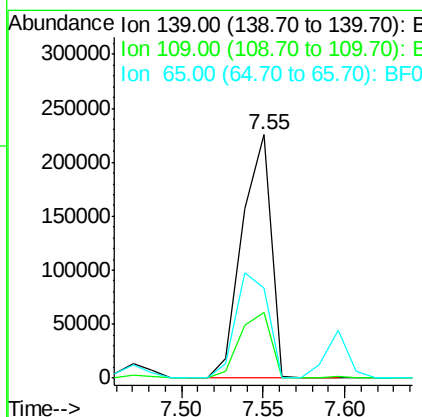
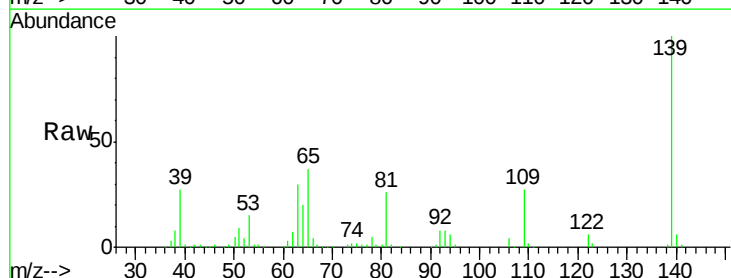
RT: 7.55 min Scan# 478

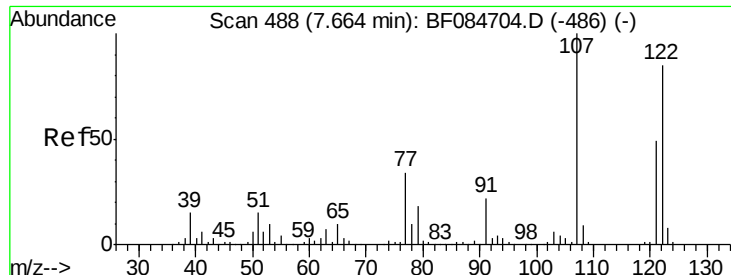
Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 139  | Resp: | 276014 |
| Ion Ratio |      | Lower | Upper  |
| 139       | 100  |       |        |
| 109       | 26.8 | 25.4  | 38.2   |
| 65        | 37.0 | 32.3  | 48.5   |





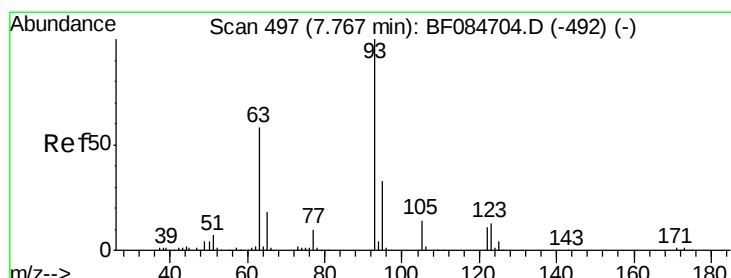
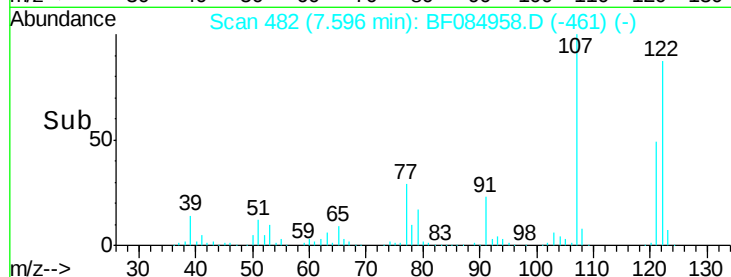
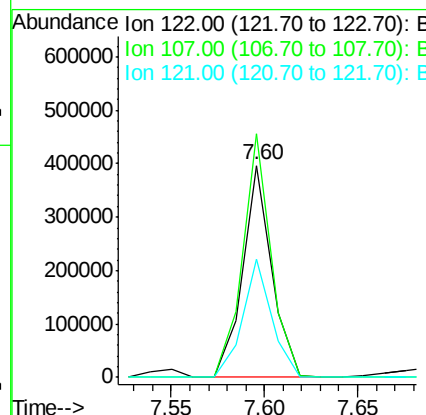
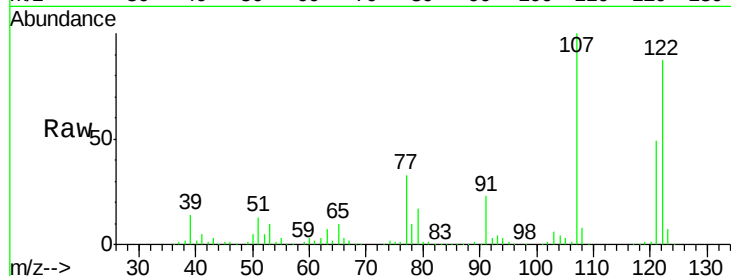
#27  
 2,4-Dimethylphenol  
 Concen: 42.43 ng  
 RT: 7.60 min Scan# 482  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 122   | Resp: | 431477 |
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 107       | 114.9 | 99.1  | 148.7  |
| 121       | 55.8  | 47.9  | 71.9   |

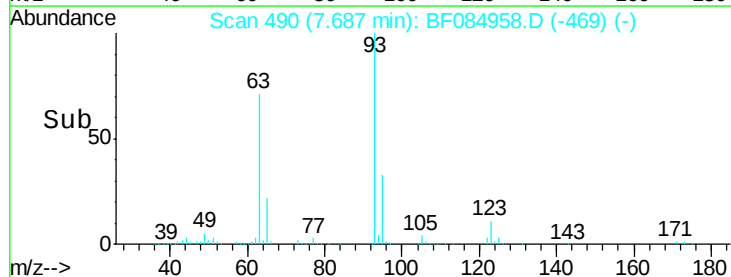
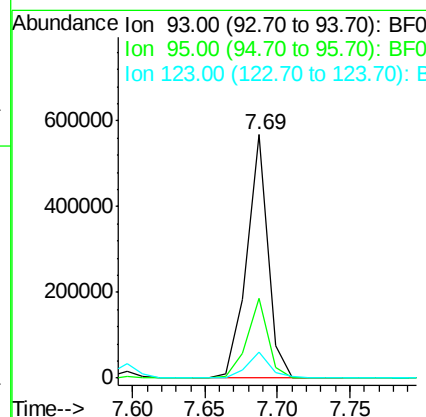
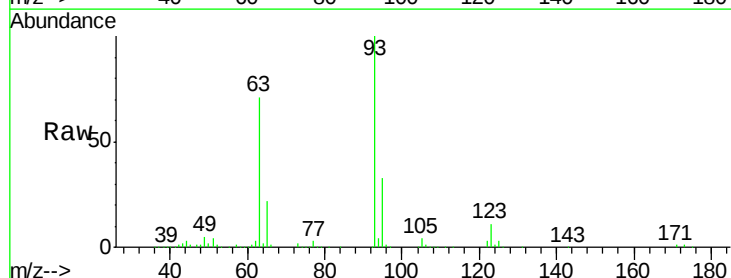
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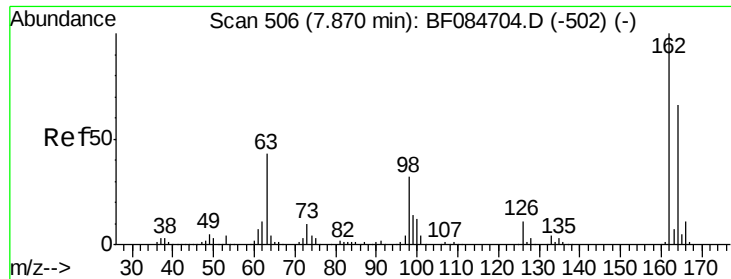
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#28  
 bis(2-Chloroethoxy)methane  
 Concen: 45.08 ng  
 RT: 7.69 min Scan# 490  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 575680 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 95        | 32.8  | 25.8  | 38.6   |
| 123       | 10.5  | 8.6   | 12.8   |





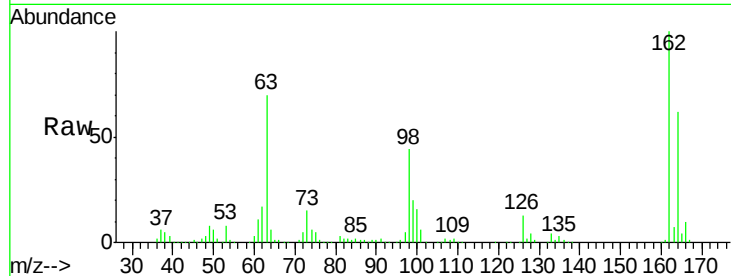
#29  
 2,4-Dichlorophenol  
 Concen: 45.38 ng  
 RT: 7.79 min Scan# 499  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

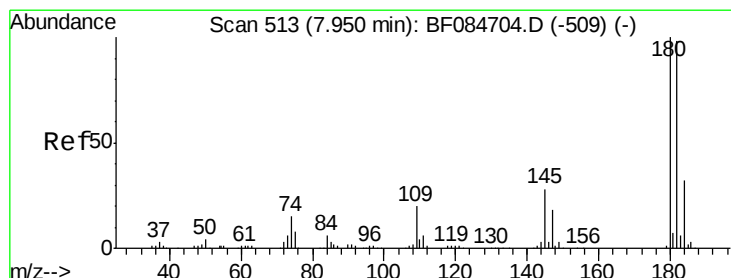
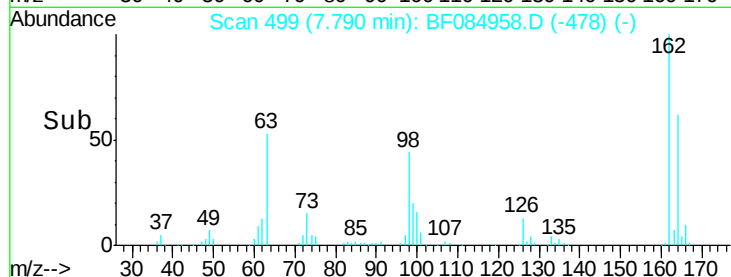
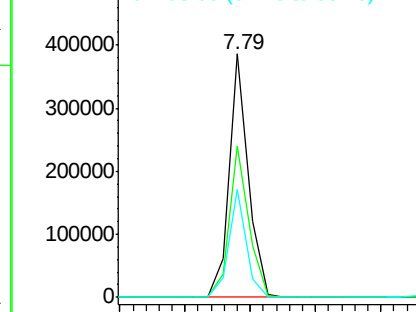
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 162     | 100   |            |       |
| 164     | 62.1  | 44.1       | 84.1  |
| 98      | 44.3  | 20.2       | 60.2  |

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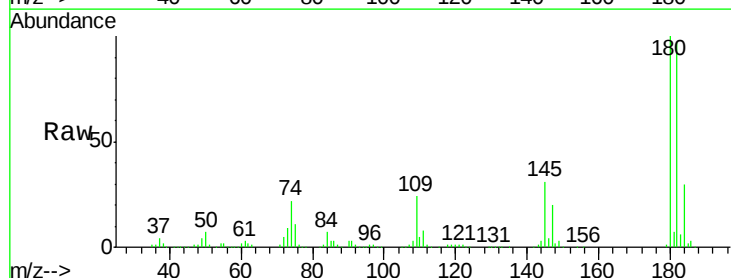


Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 164.00 (163.70 to 164.70): E  
 Ion 98.00 (97.70 to 98.70): BF0

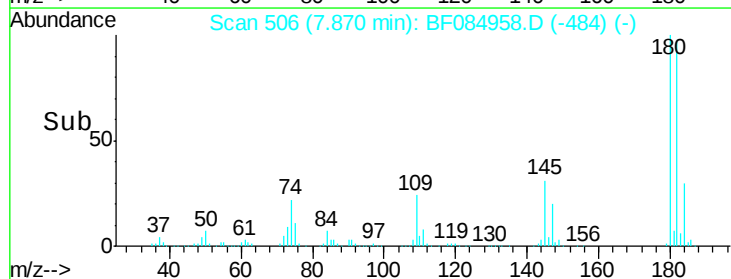
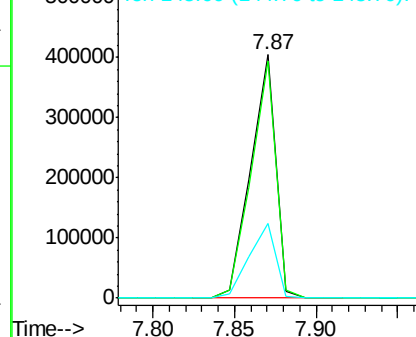


#30  
 1,2,4-Trichlorobenzene  
 Concen: 43.82 ng  
 RT: 7.87 min Scan# 506  
 Delta R.T. -0.05 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 180     | 100   |            |       |
| 182     | 97.4  | 76.4       | 114.6 |
| 145     | 30.9  | 31.6       | 47.4# |



Abundance Ion 180.00 (179.70 to 180.70): E  
 Ion 182.00 (181.70 to 182.70): E  
 Ion 145.00 (144.70 to 145.70): E





#31

Naphthalene

Concen: 43.95 ng

RT: 7.95 min Scan# 513

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion:128 Resp: 1374810

Ion Ratio Lower Upper

128 100

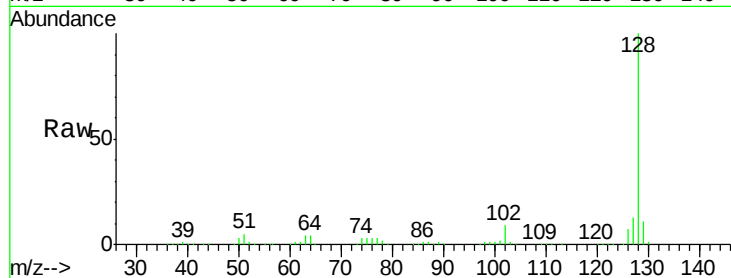
129 11.0 9.1 13.7

127 13.1 11.1 16.7

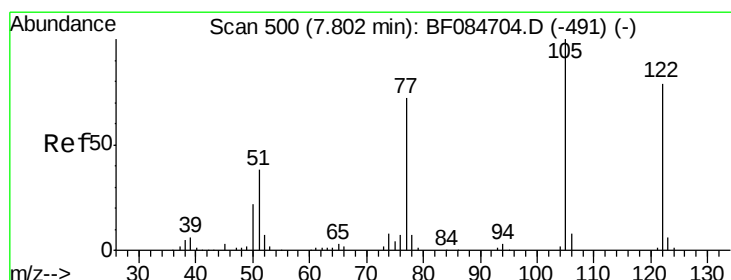
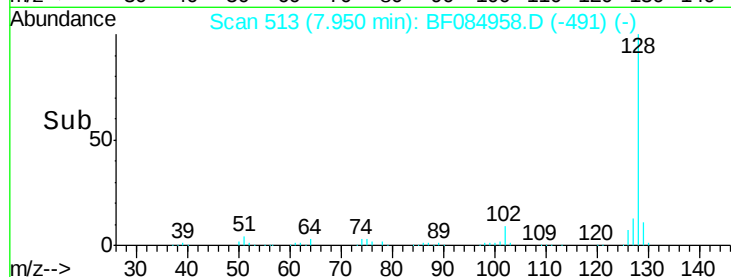
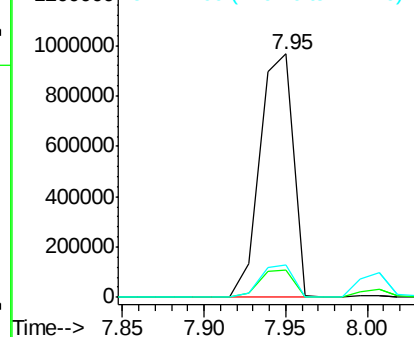
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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 14.53 ng

RT: 7.71 min Scan# 492

Delta R.T. -0.08 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

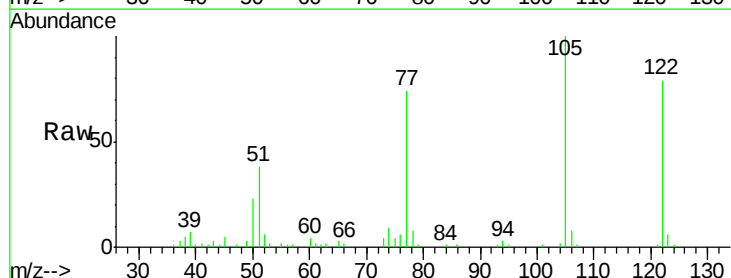
Tgt Ion:122 Resp: 94519

Ion Ratio Lower Upper

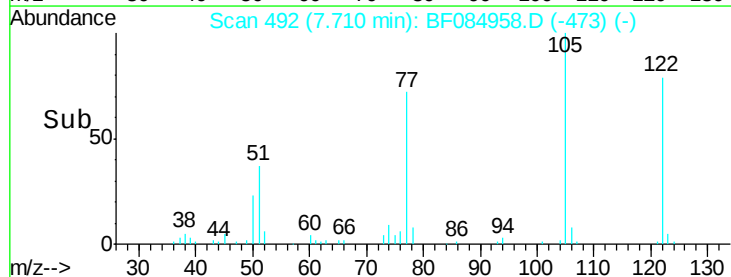
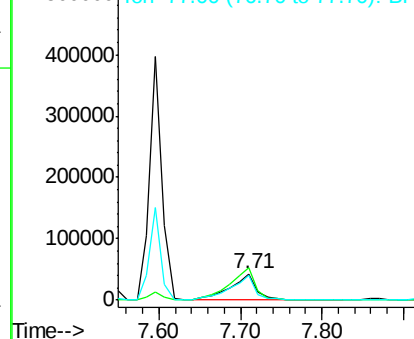
122 100

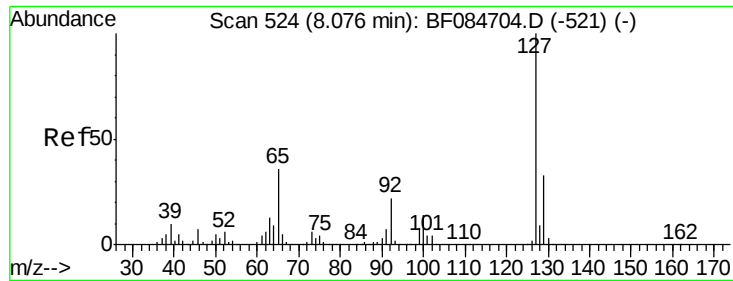
105 126.1 100.3 140.3

77 93.5 63.5 103.5



Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BF0





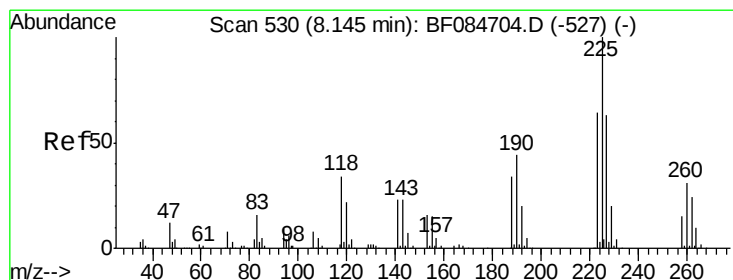
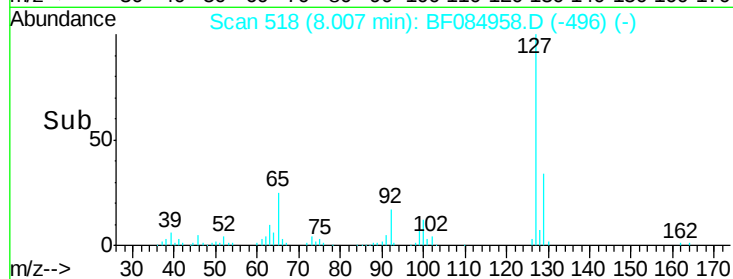
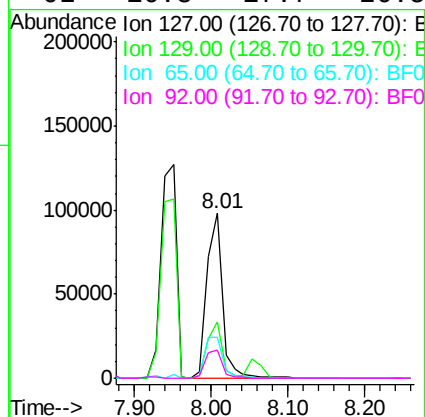
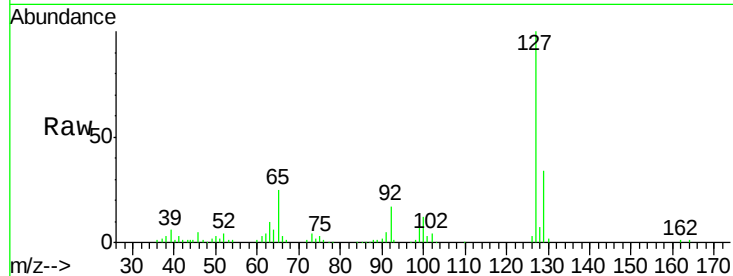
#33  
4-Chloroaniline  
Concen: 10.66 ng  
RT: 8.01 min Scan# 518  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 127     | 100  |       |      |       |       |
| 129     | 34.4 | 26.5  | 39.7 |       |       |
| 65      | 25.3 | 27.2  | 40.8 |       |       |
| 92      | 16.8 | 17.7  | 26.5 |       |       |

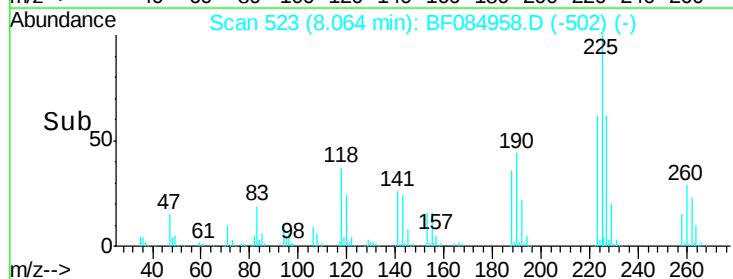
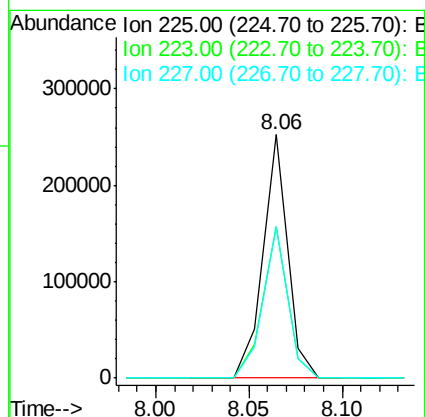
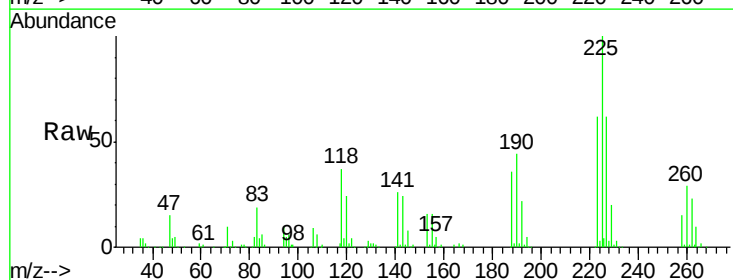
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#34  
Hexachlorobutadiene  
Concen: 40.59 ng  
RT: 8.06 min Scan# 523  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 225     | 100  |       |      |       |       |
| 223     | 62.2 | 49.4  | 74.0 |       |       |
| 227     | 62.0 | 50.8  | 76.2 |       |       |





#35

Caprolactam

Concen: 48.54 ng/ml

RT: 8.38 min Scan# 551

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion:113 Resp: 130186

Ion Ratio Lower Upper

113 100

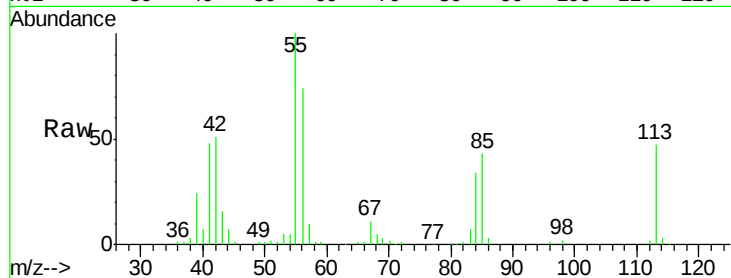
55 211.9 116.9 156.9#

56 156.4 93.8 133.8#

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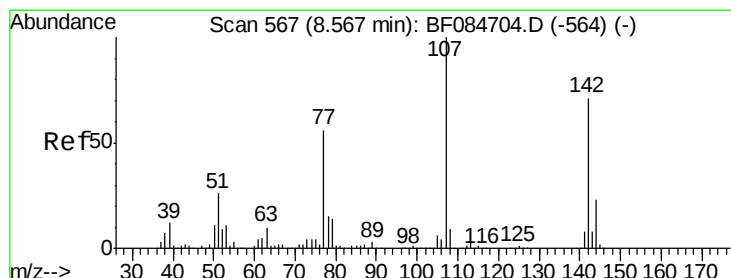
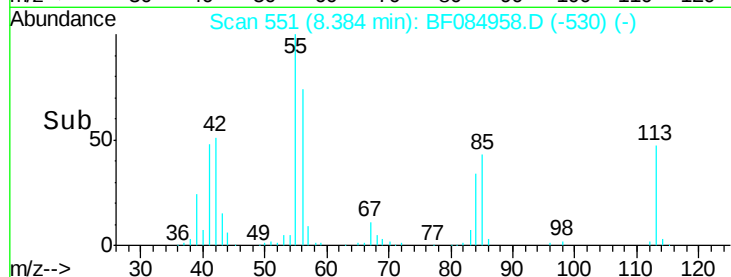
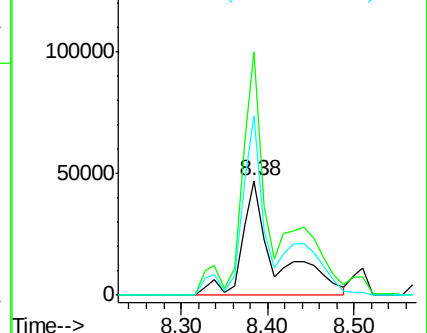
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Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0



#36

4-Chloro-3-methylphenol

Concen: 50.21 ng/ml

RT: 8.51 min Scan# 562

Delta R.T. -0.03 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

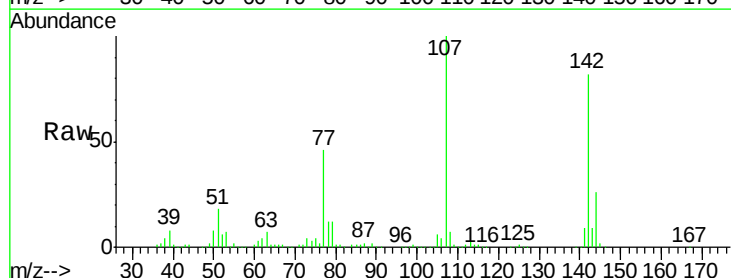
Tgt Ion:107 Resp: 498366

Ion Ratio Lower Upper

107 100

144 26.3 19.7 29.5

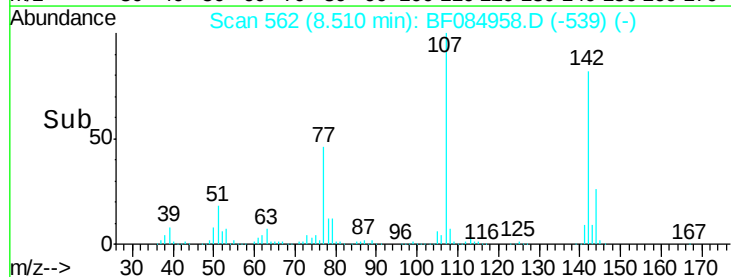
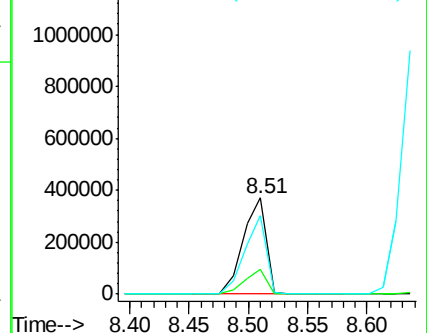
142 81.6 61.8 92.6

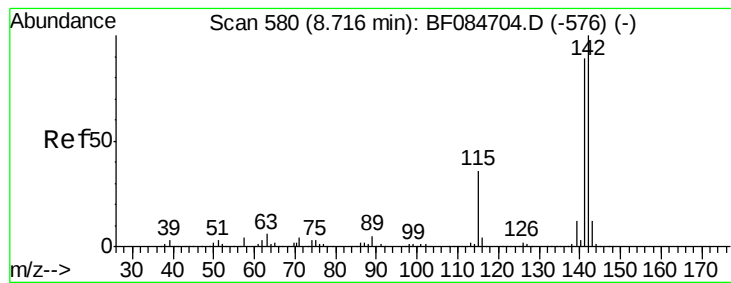


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





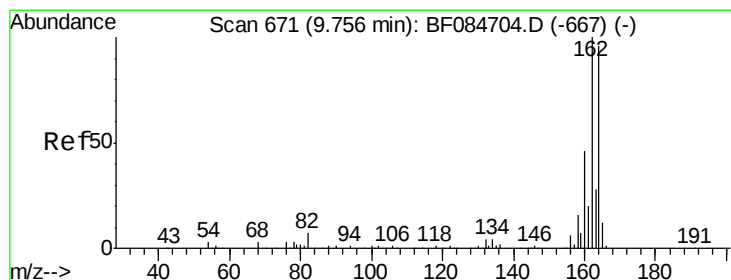
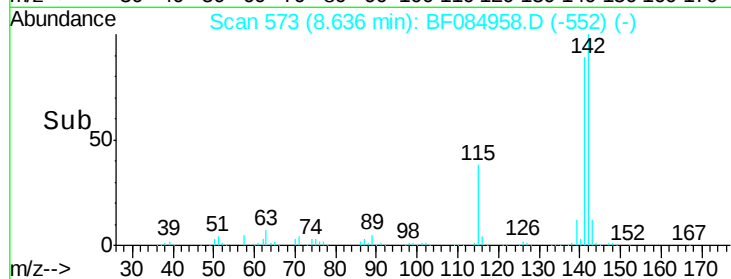
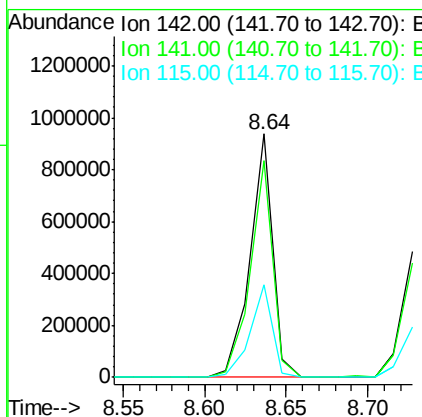
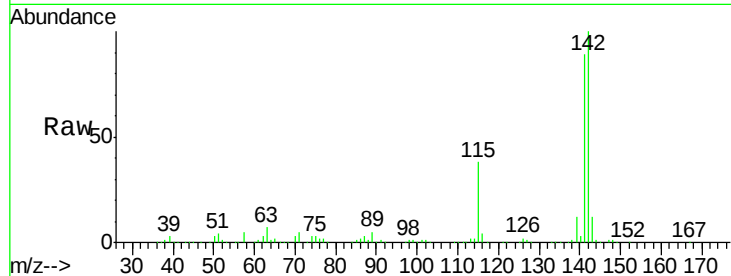
#37  
2-Methylnaphthalene  
Concen: 46.33 ng  
RT: 8.64 min Scan# 573  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 72.4  | 108.6 |
| 115     | 37.9  | 27.9  | 41.9  |

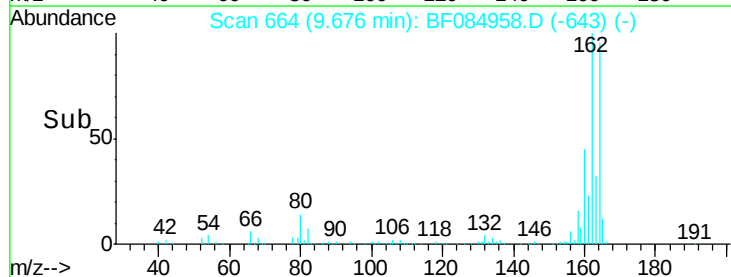
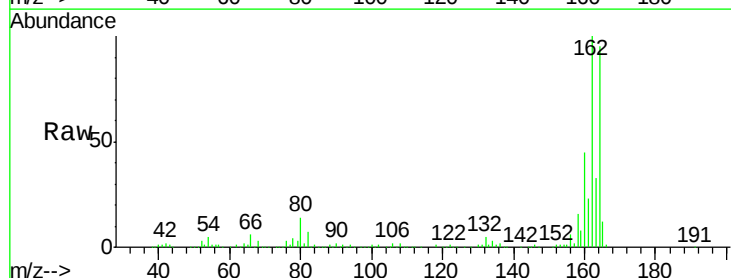
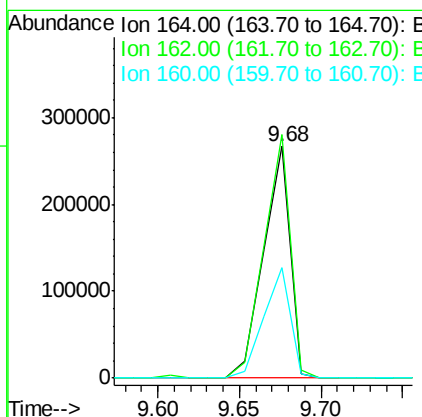
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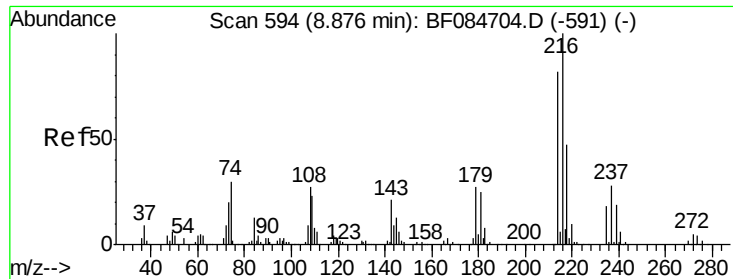
Sohil  
2/10/2016 1:45:03 PM



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.68 min Scan# 664  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.1 | 85.1  | 127.7 |
| 160     | 47.7  | 37.5  | 56.3  |





#39

1,2,4,5-Tetrachlorobenzene

Concen: 41.52 ng

RT: 8.81 min Scan# 588

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

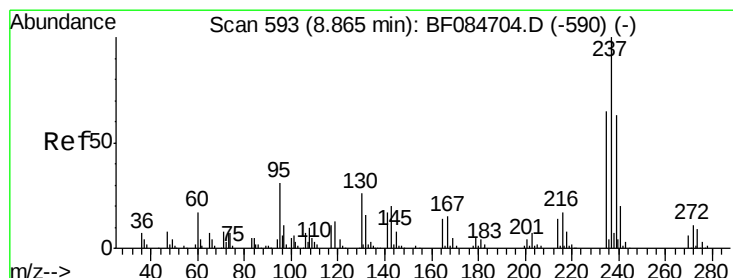
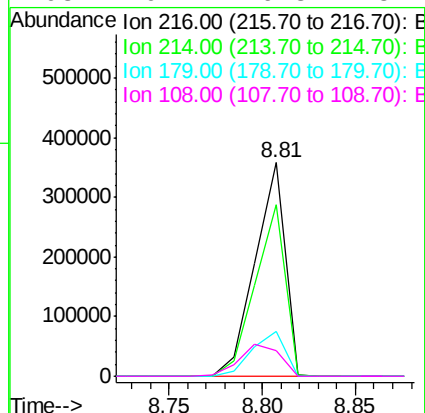
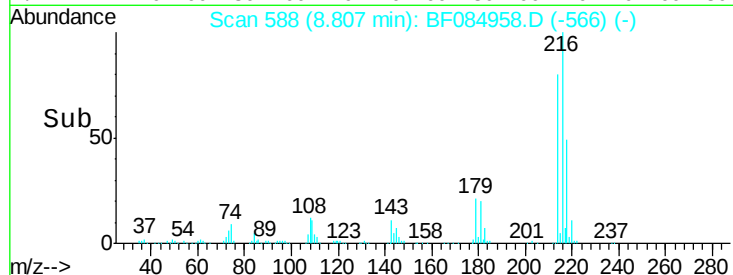
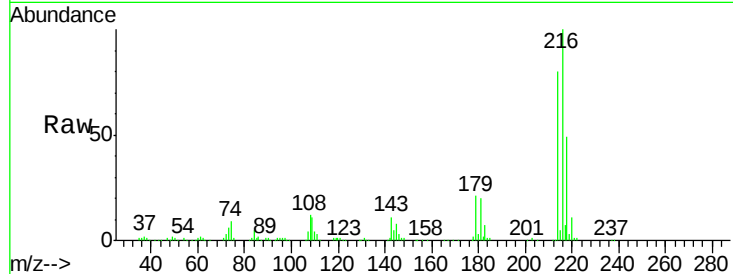
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 216   | Resp: | 397468 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 80.6  | 64.2  | 96.2   |
| 179       | 23.1  | 18.7  | 28.1   |
| 108       | 20.2  | 16.8  | 25.2   |

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#40

Hexachlorocyclopentadiene

Concen: 72.11 ng

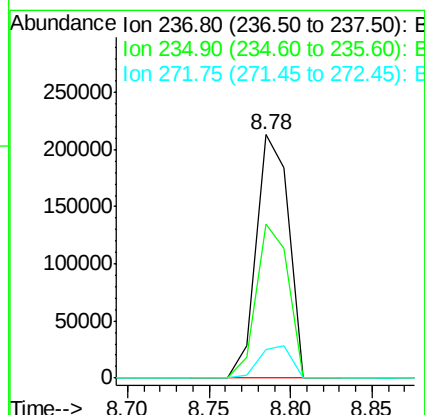
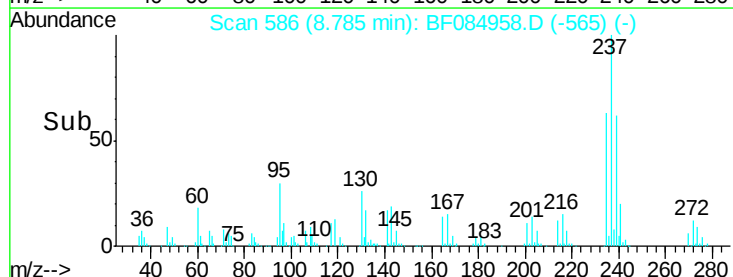
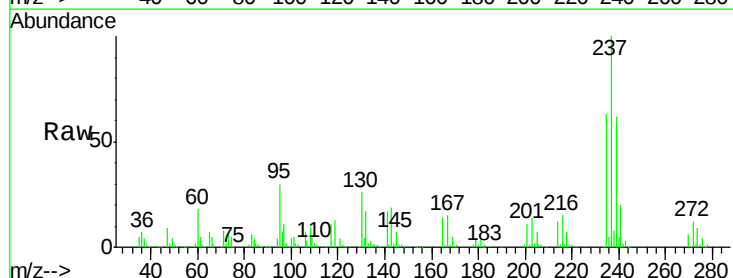
RT: 8.78 min Scan# 586

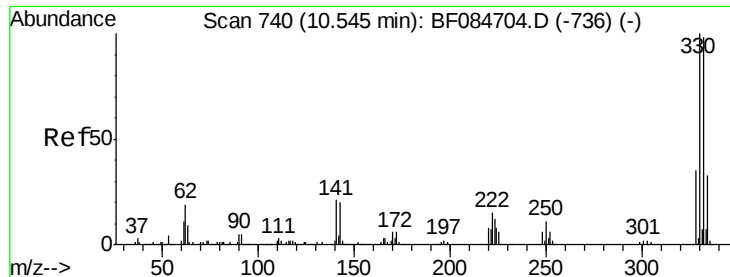
Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 237   | Resp: | 292398 |
| Ion Ratio | Lower | Upper |        |
| 237       | 100   |       |        |
| 235       | 63.4  | 43.1  | 83.1   |
| 272       | 11.6  | 0.0   | 35.1   |





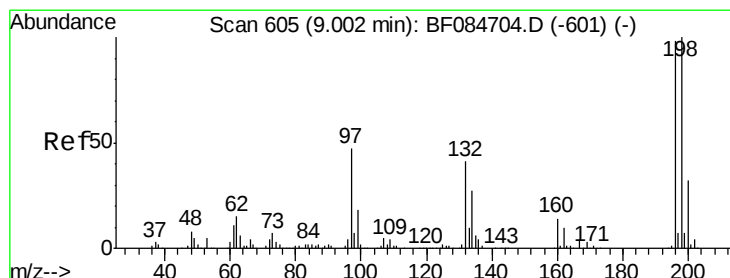
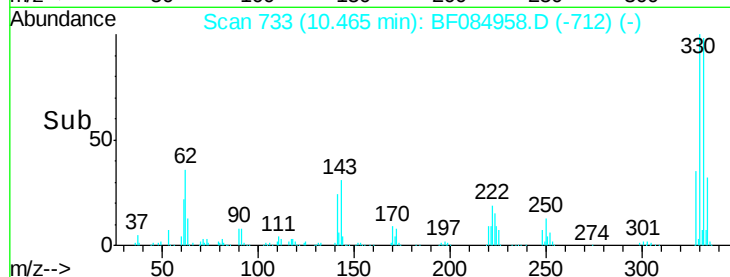
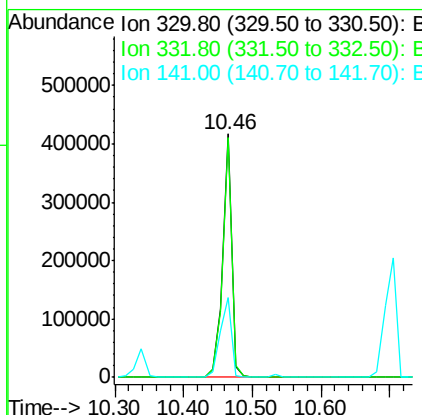
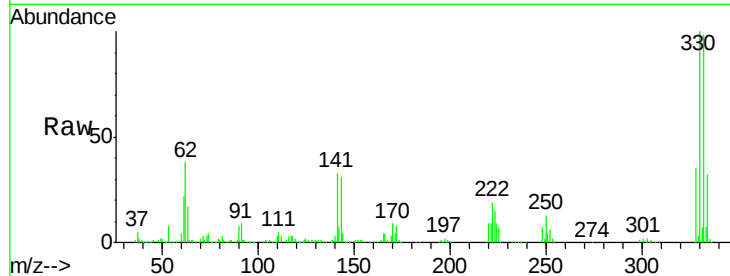
#41  
 2,4,6-Tribromophenol  
 Concen: 126.13 ng  
 RT: 10.46 min Scan# 733  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 396582 |       |       |
| 332     | 98.4  | 76.6   | 114.8 |       |
| 141     | 39.8  | 27.8   | 41.6  |       |

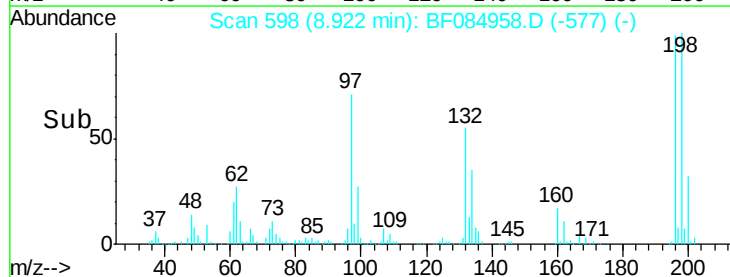
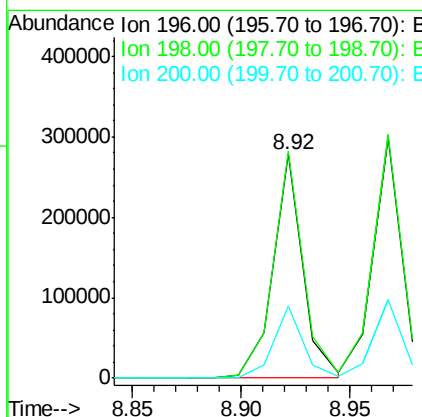
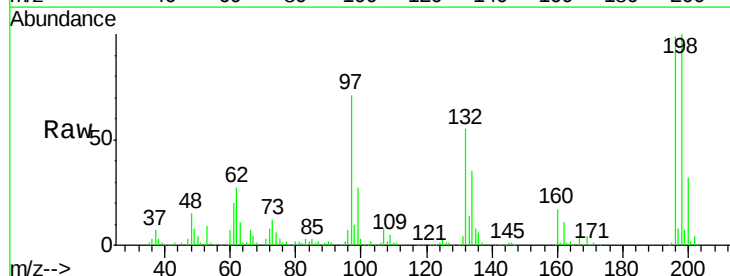
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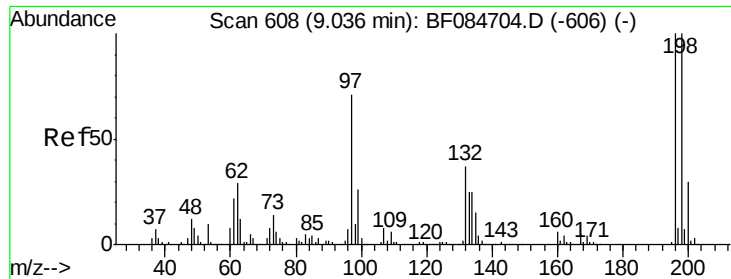
Sohil  
 2/10/2016 1:45:03 PM



#42  
 2,4,6-Trichlorophenol  
 Concen: 43.57 ng  
 RT: 8.92 min Scan# 598  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 268737 |       |       |
| 198     | 101.4 | 77.7   | 116.5 |       |
| 200     | 32.0  | 24.6   | 37.0  |       |





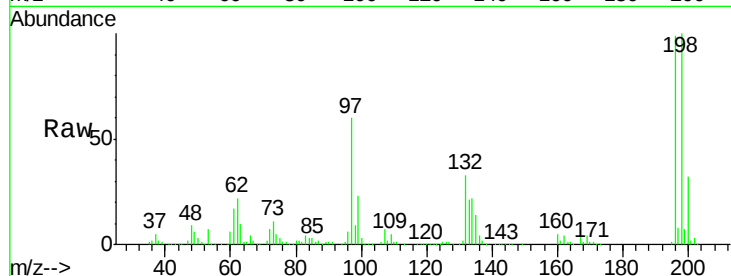
#43  
 2,4,5-Trichlorophenol  
 Concen: 44.23 ng  
 RT: 8.97 min Scan# 602  
 Delta R.T. -0.05 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

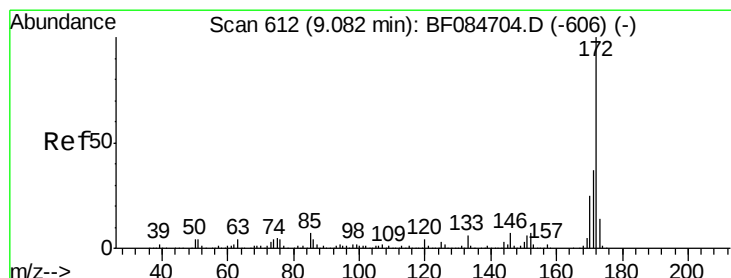
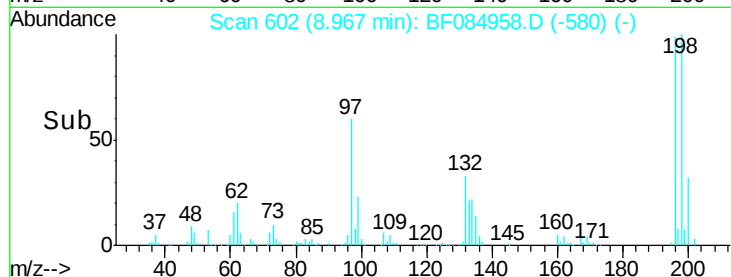
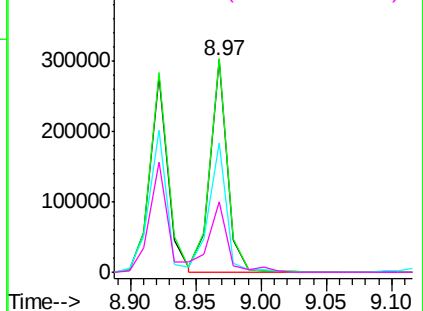
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 196     | 100   |      |       |       |
| 198     | 100.8 | 79.0 | 118.6 |       |
| 97      | 60.8  | 33.0 | 49.6  |       |
| 132     | 33.3  | 21.1 | 31.7  |       |

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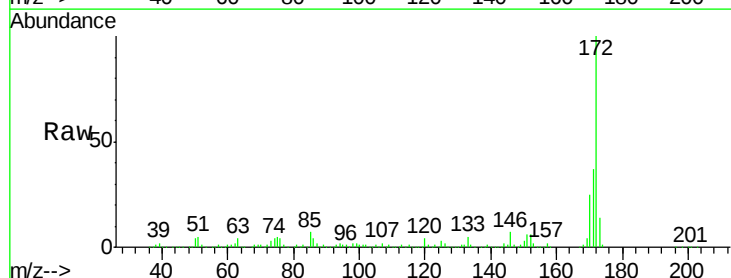


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BF0  
 Ion 132.00 (131.70 to 132.70): E

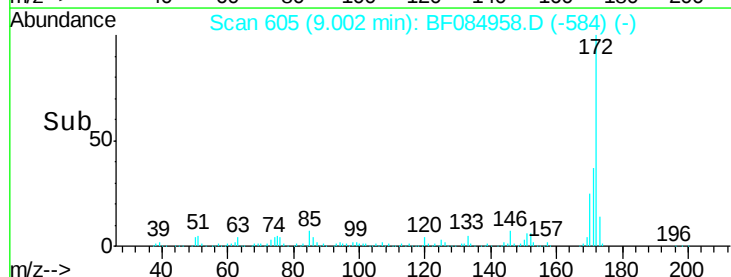
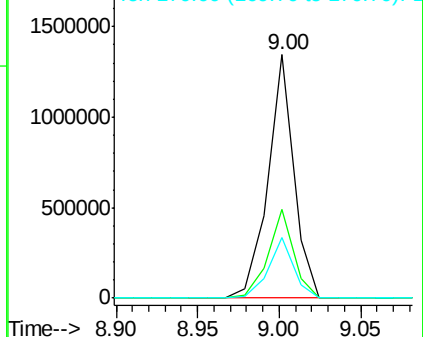


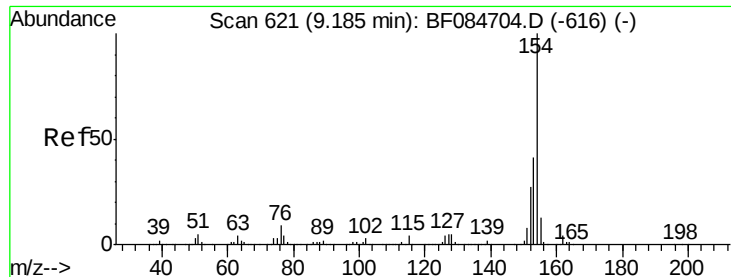
#44  
 2-Fluorobiphenyl  
 Concen: 82.71 ng  
 RT: 9.00 min Scan# 605  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 36.5  | 28.9 | 43.3  |       |
| 170     | 24.7  | 18.6 | 27.8  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 43.66 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion:154 Resp: 1175384

Ion Ratio Lower Upper

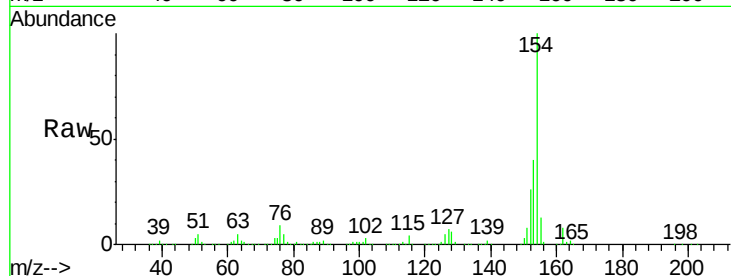
154 100

153 40.2 21.6 61.6

76 9.0 0.0 32.7

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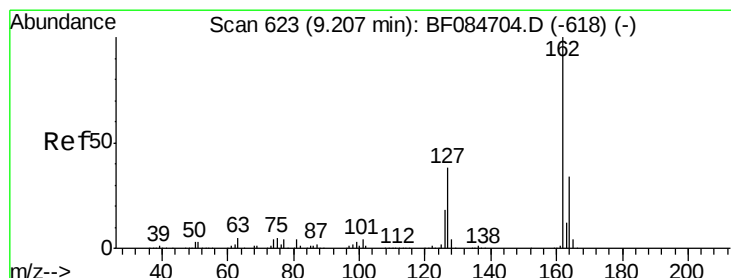
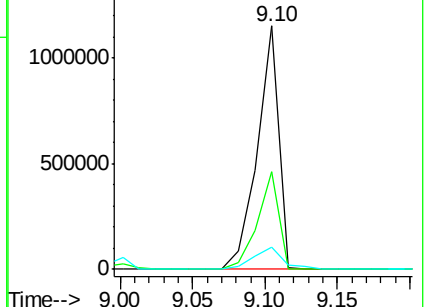
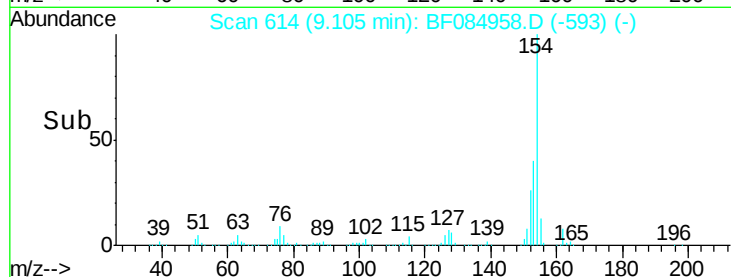
Sohil  
2/10/2016 1:45:03 PM



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: 43.40 ng

RT: 9.13 min Scan# 616

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

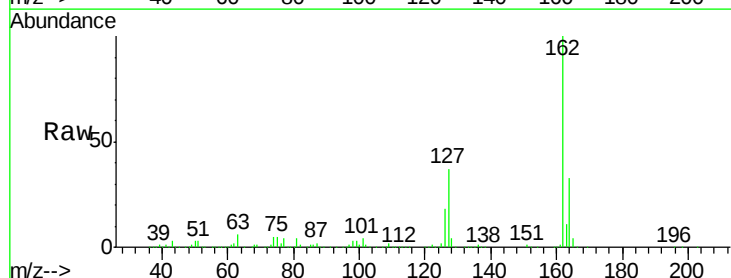
Tgt Ion:162 Resp: 860491

Ion Ratio Lower Upper

162 100

127 37.4 40.2 60.4#

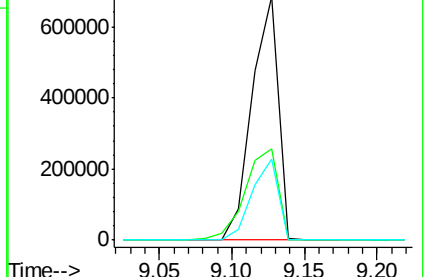
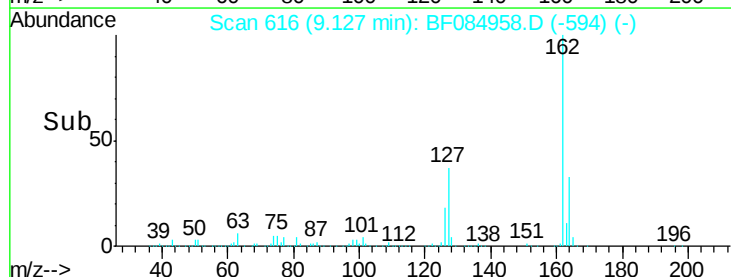
164 33.3 25.7 38.5

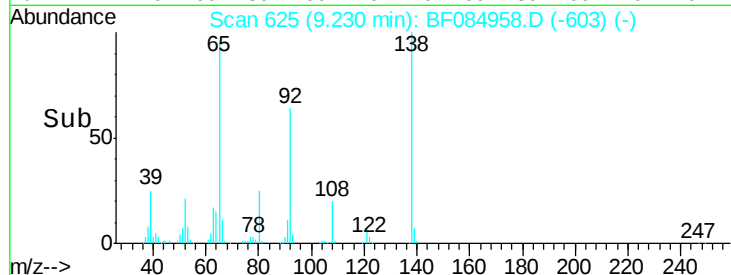
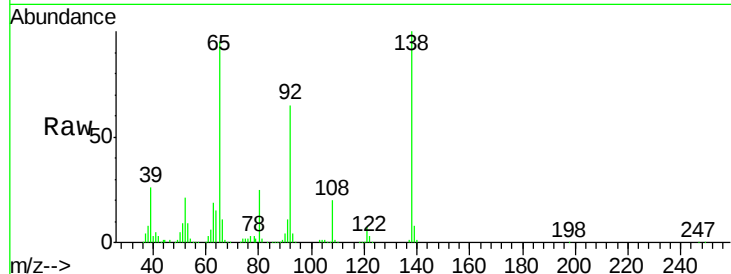
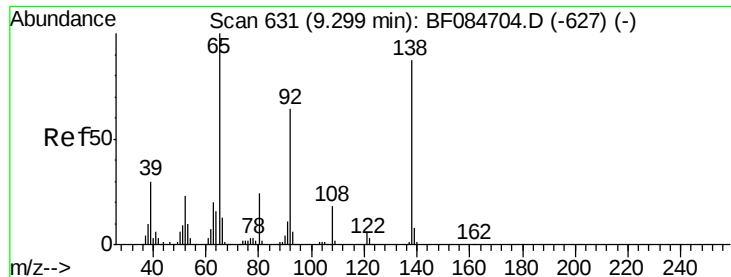


Abundance Ion 162.00 (161.70 to 162.70): E

Ion 127.00 (126.70 to 127.70): E

Ion 164.00 (163.70 to 164.70): E





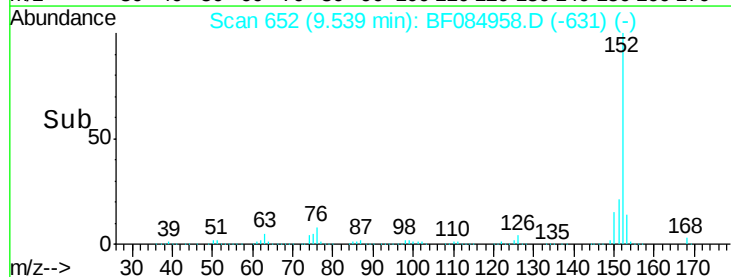
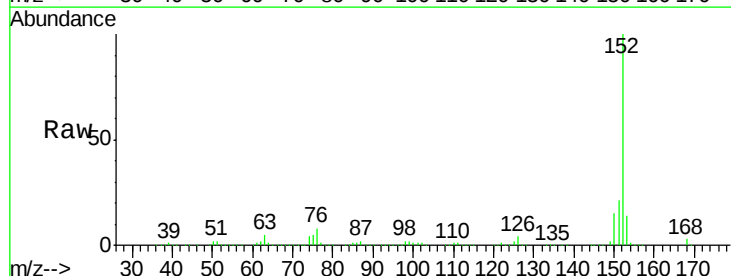
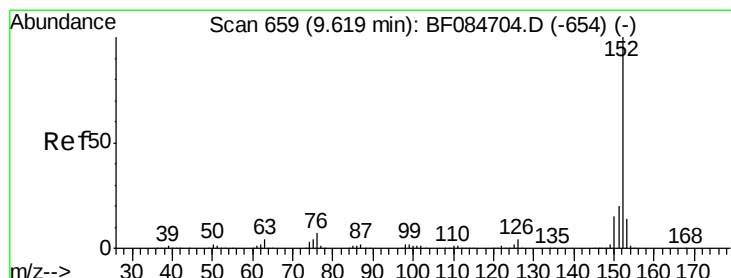
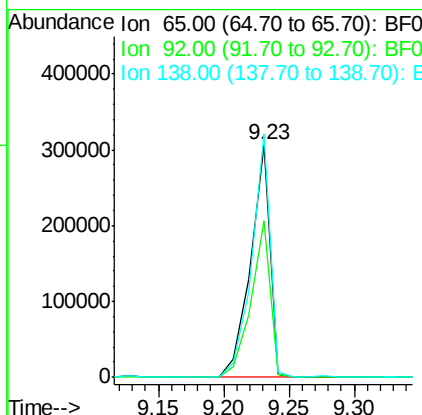
#47  
2-Nitroaniline  
Concen: 50.66 ng  
RT: 9.23 min Scan# 625  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 67.7  | 53.4  | 80.2  |
| 138     | 104.9 | 71.1  | 106.7 |

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

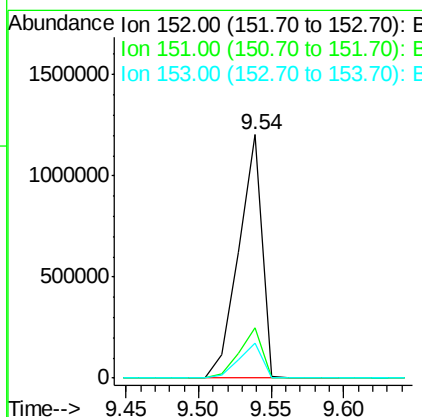
Manual Integrations  
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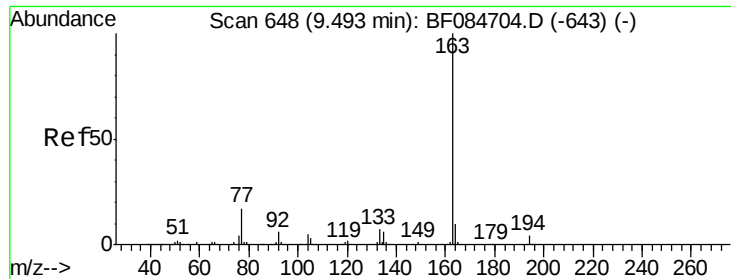
Sohil  
2/10/2016 1:45:03 PM



#48  
Acenaphthylene  
Concen: 44.54 ng  
RT: 9.54 min Scan# 652  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.5  | 16.3  | 24.5  |
| 153     | 14.4  | 10.4  | 15.6  |





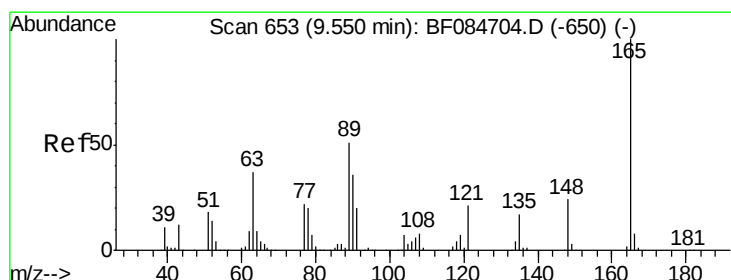
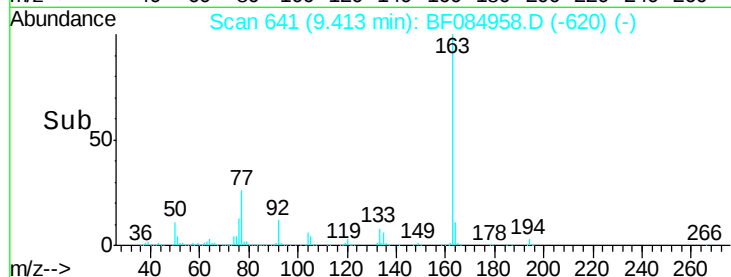
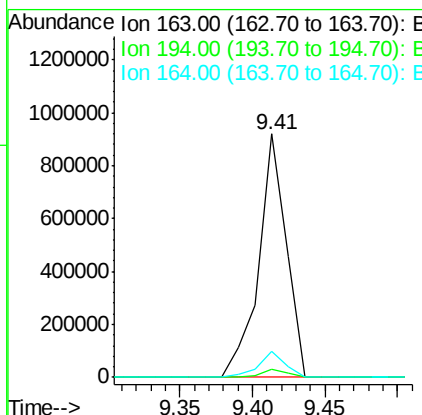
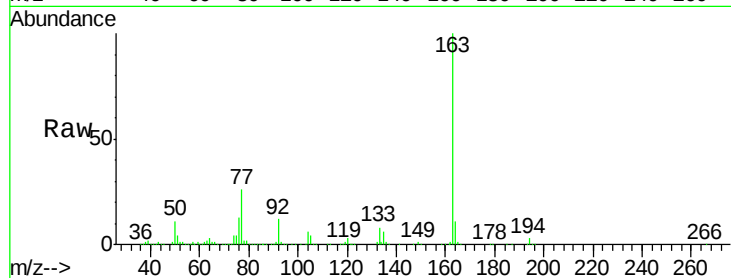
#49  
Dimethylphthalate  
Concen: 52.83 ng  
RT: 9.41 min Scan# 641  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 8.0   | 12.0# |
| 164     | 10.9  | 8.0   | 12.0  |

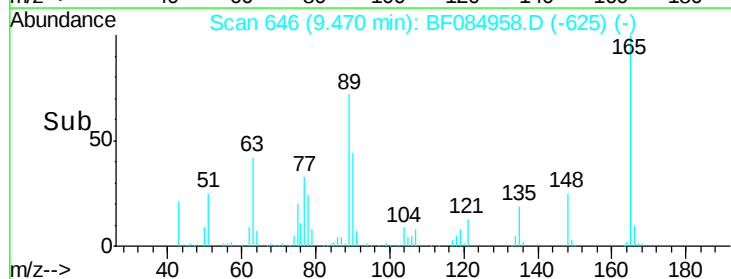
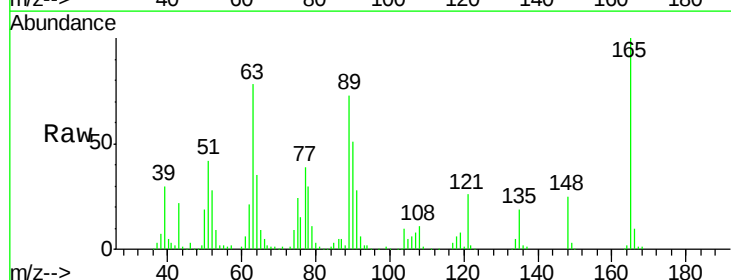
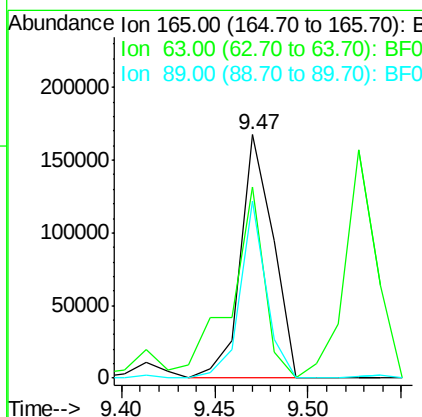
Manual Integrations  
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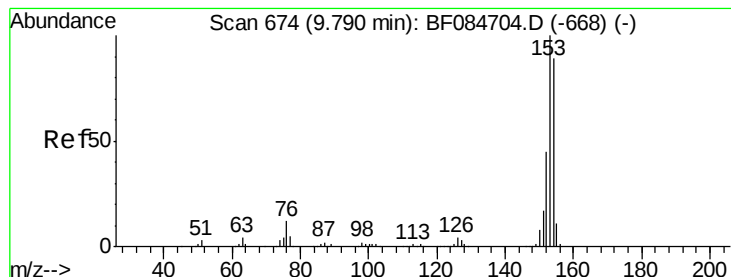
Sohil  
2/10/2016 1:45:03 PM



#50  
2,6-Dinitrotoluene  
Concen: 40.30 ng  
RT: 9.47 min Scan# 646  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 78.4  | 28.8  | 43.2# |
| 89      | 72.8  | 35.1  | 52.7# |





#51

Acenaphthene

Concen: 42.27 ng

RT: 9.71 min Scan# 667

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

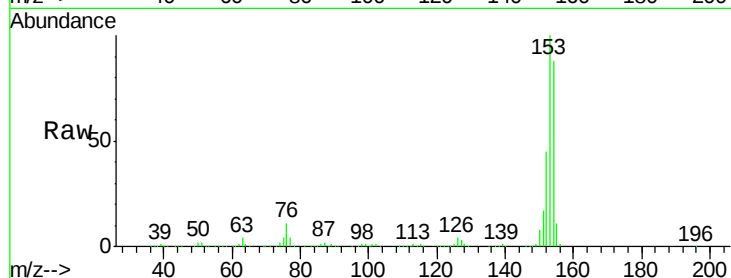
ClientSampleId :

S4-B005(28-30)MSD

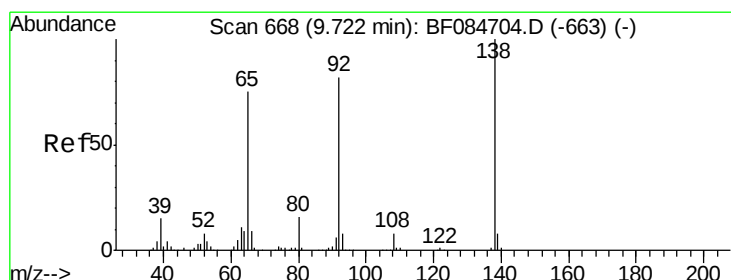
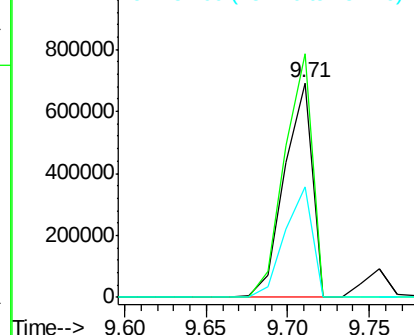
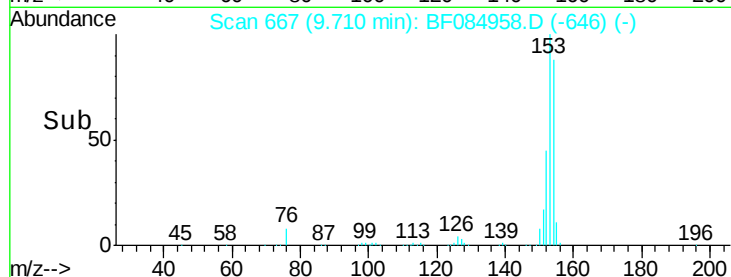
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 827429 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 113.4 | 91.5  | 137.3  |
| 152       | 51.3  | 43.0  | 64.6   |

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



#52

3-Nitroaniline

Concen: 22.99 ng

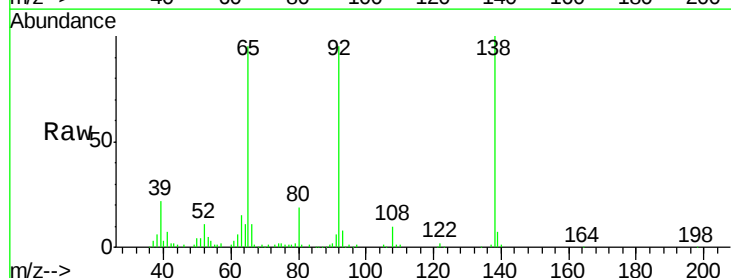
RT: 9.64 min Scan# 661

Delta R.T. -0.06 min

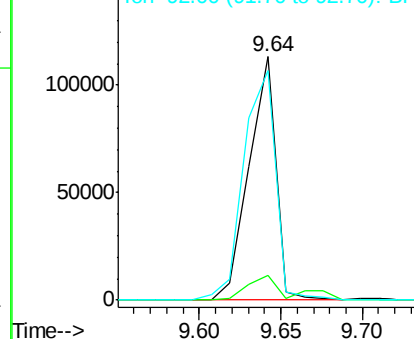
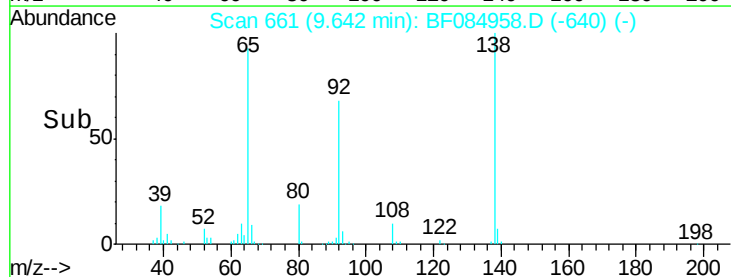
Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 138   | Resp: | 129584 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 108       | 10.2  | 10.5  | 15.7#  |
| 92        | 94.5  | 103.9 | 155.9# |



Abundance Ion 138.00 (137.70 to 138.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 92.00 (91.70 to 92.70): BF0





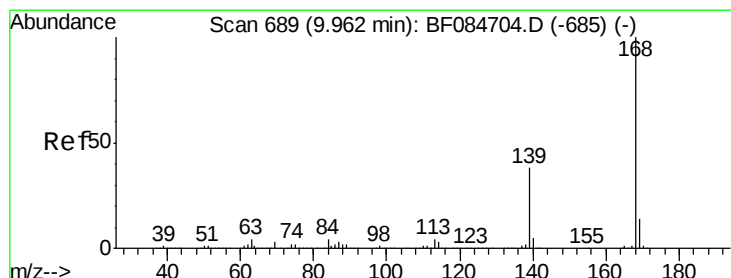
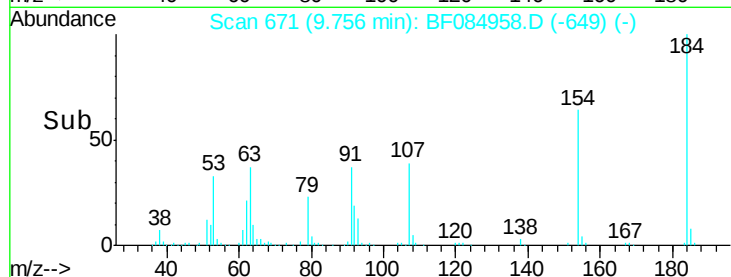
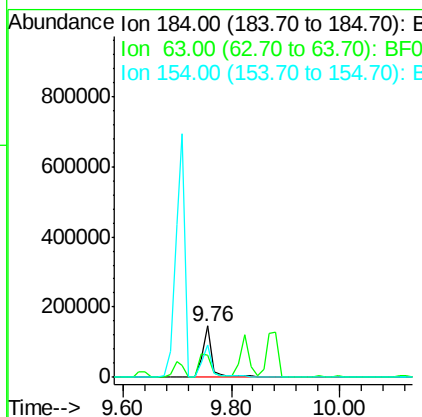
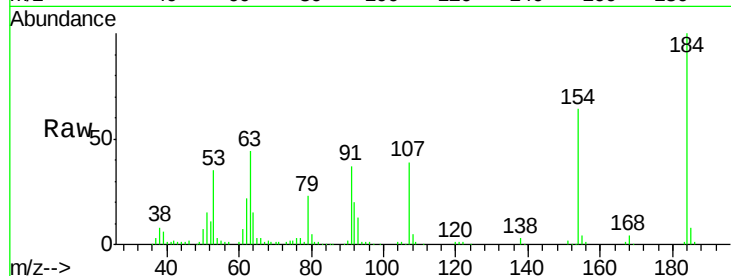
#53  
2,4-Dinitrophenol  
Concen: 80.59 ng  
RT: 9.76 min Scan# 671  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 184     | 100   | 186664 |       |       |
| 63      | 43.9  | 43.1   | 64.7  |       |
| 154     | 64.0  | 60.5   | 90.7  |       |

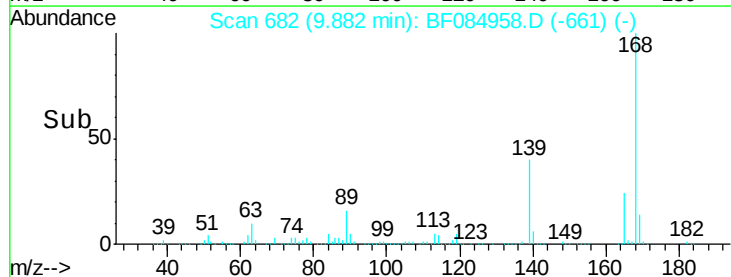
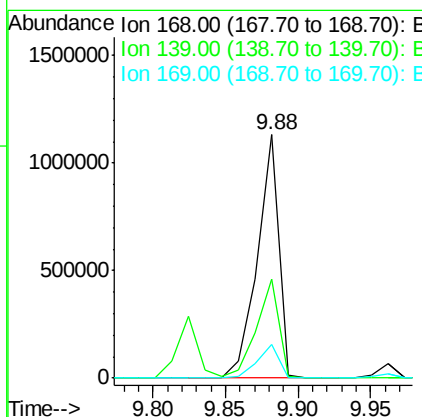
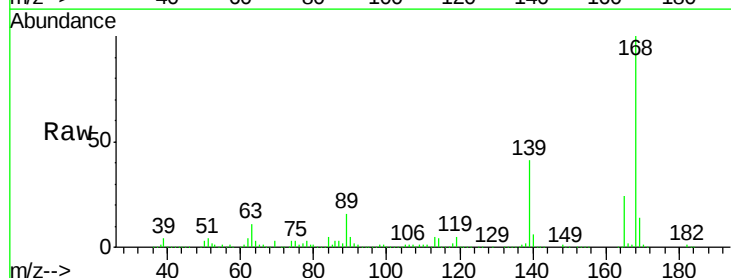
Manual Integrations  
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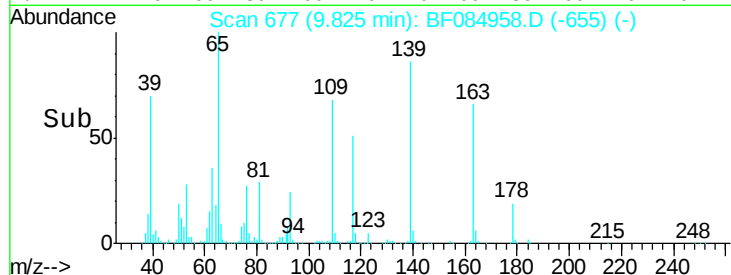
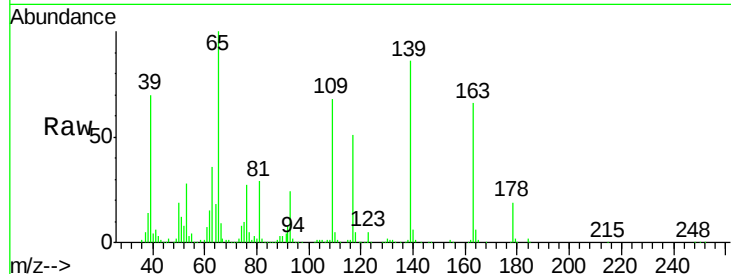
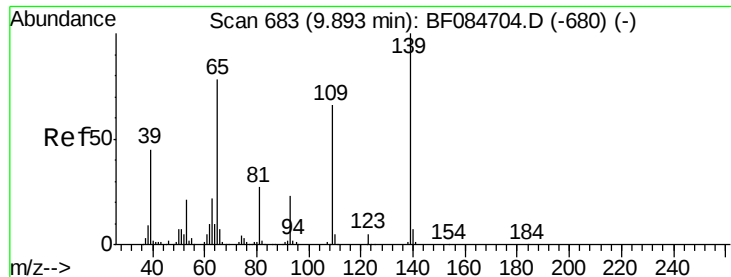
Sohil  
2/10/2016 1:45:03 PM



#54  
Dibenzofuran  
Concen: 48.51 ng  
RT: 9.88 min Scan# 682  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 168     | 100   | 1160602 |       |       |
| 139     | 40.6  | 30.5    | 45.7  |       |
| 169     | 13.7  | 10.4    | 15.6  |       |





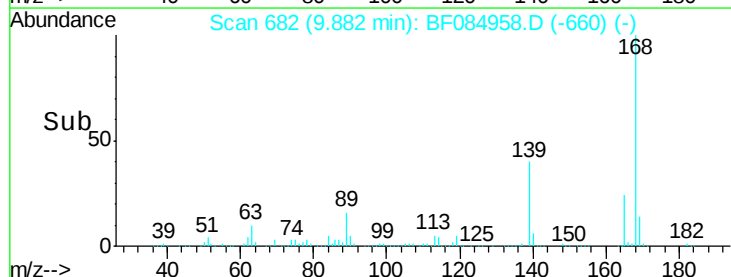
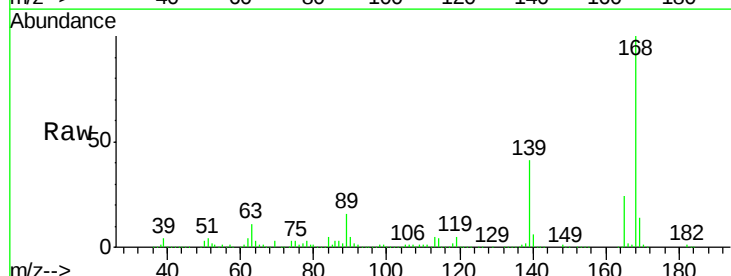
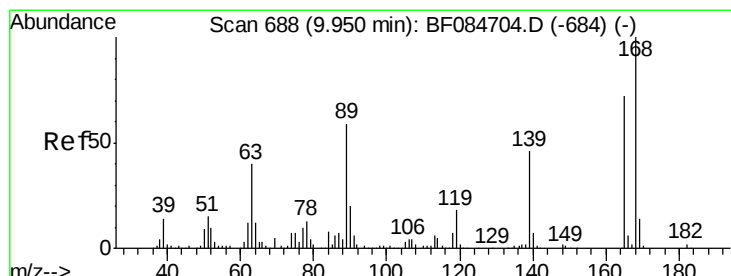
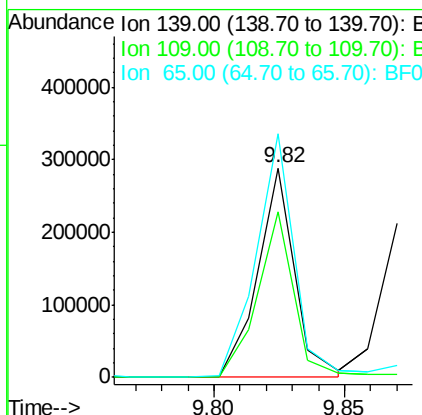
#55  
4-Nitrophenol  
Concen: 69.33 ng  
RT: 9.82 min Scan# 677  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 139     | 100   | 287141 |       |       |
| 109     | 79.2  | 58.5   | 98.5  |       |
| 65      | 116.4 | 57.6   | 97.6  |       |

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

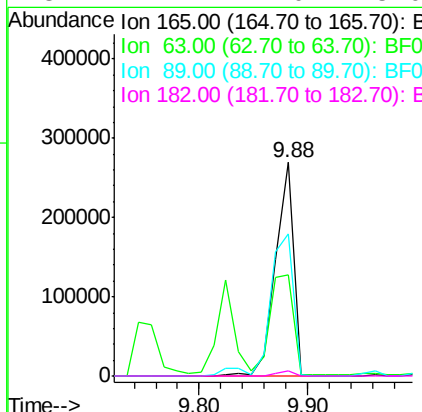
Manual Integrations  
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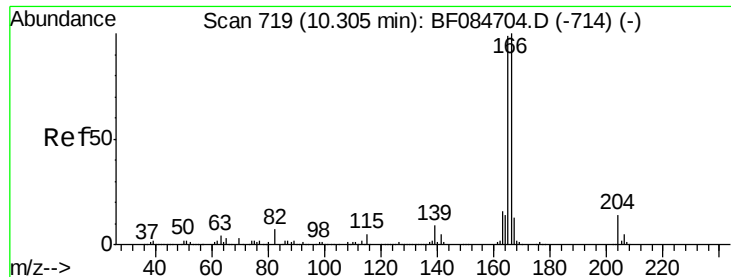
Sohil  
2/10/2016 1:45:03 PM



#56  
2,4-Dinitrotoluene  
Concen: 48.30 ng  
RT: 9.88 min Scan# 682  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 308938 |       |       |
| 63      | 47.5  | 36.7   | 55.1  |       |
| 89      | 66.7  | 61.9   | 92.9  |       |
| 182     | 2.4   | 2.0    | 3.0   |       |





#57

Fluorene

Concen: 44.05 ng

RT: 10.22 min Scan# 712

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

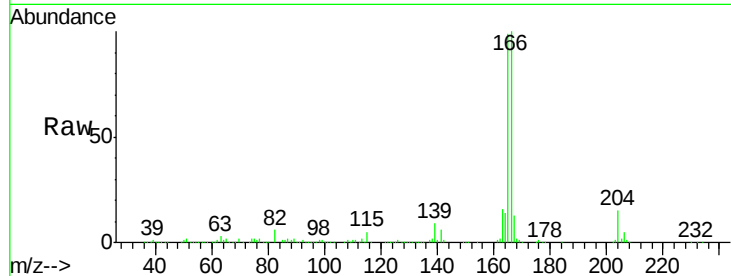
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 166   | Resp: | 880081 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 98.5  | 79.1  | 118.7  |
| 167       | 12.8  | 10.4  | 15.6   |

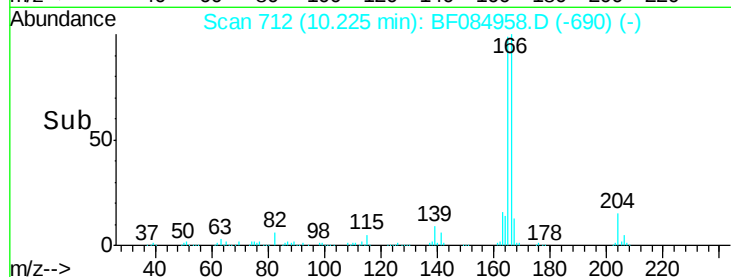
Manual Integrations  
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2/10/2016 1:45:03 PM

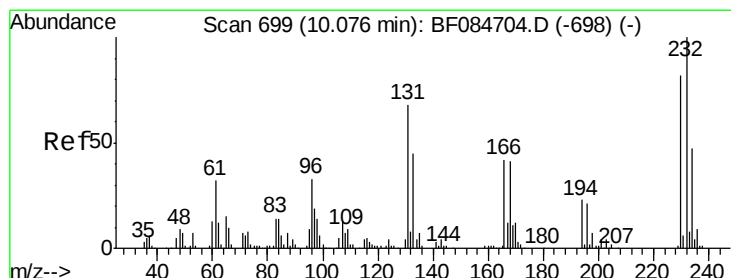


Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

10.22



Time-->



#58

2,3,4,6-Tetrachlorophenol

Concen: 48.68 ng

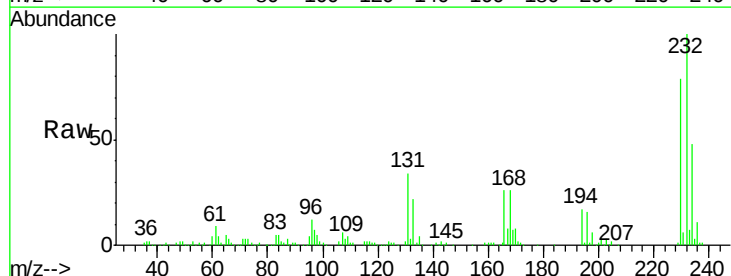
RT: 10.01 min Scan# 693

Delta R.T. -0.05 min

Lab File: BF084958.D

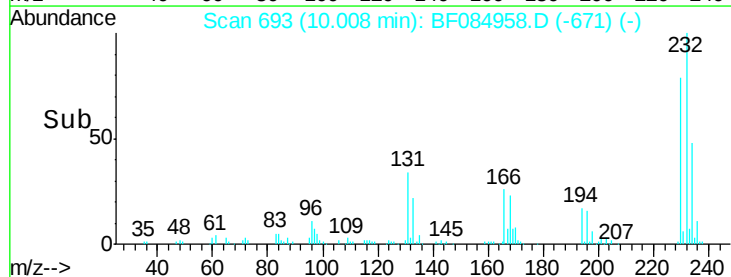
Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 232   | Resp: | 232215 |
| Ion Ratio | Lower | Upper |        |
| 232       | 100   |       |        |
| 131       | 49.9  | 47.0  | 70.6   |
| 130       | 2.1   | 2.0   | 3.0    |
| 166       | 30.3  | 30.5  | 45.7#  |

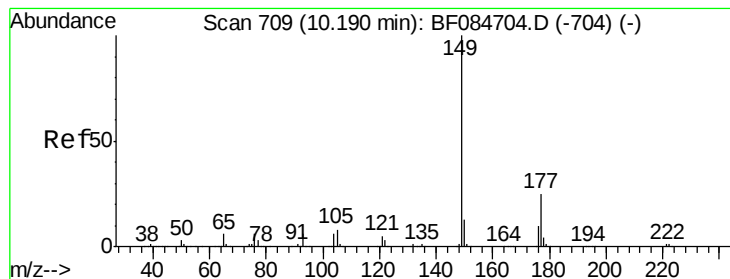


Abundance Ion 232.00 (231.70 to 232.70): E  
Ion 131.00 (130.70 to 131.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 166.00 (165.70 to 166.70): E

10.01



Time-->



#59

Diethylphthalate

Concen: 42.55 ng

RT: 10.11 min Scan# 702

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

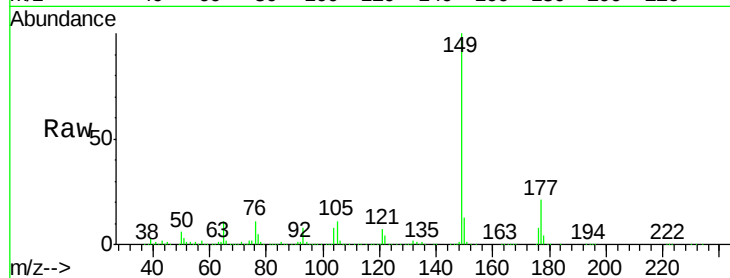
ClientSampleId :

S4-B005(28-30)MSD

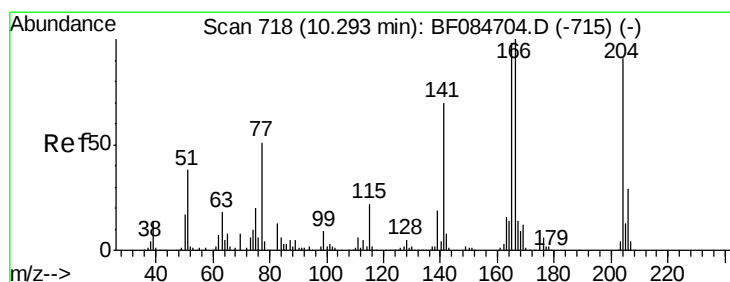
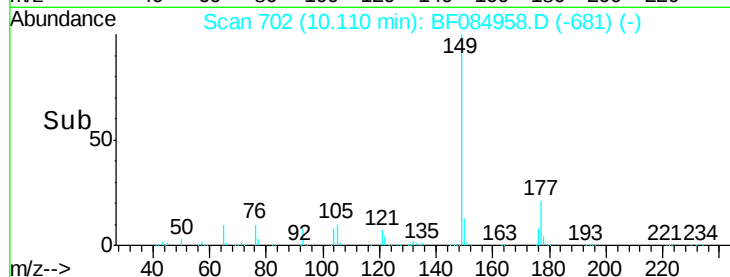
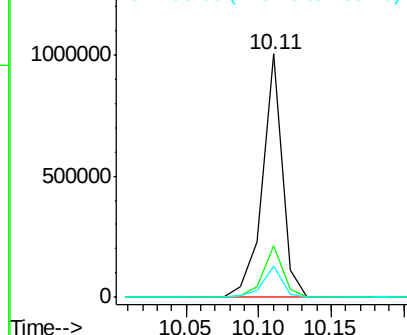
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 953771 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 177       | 21.3  | 17.3  | 25.9   |
| 150       | 13.0  | 9.8   | 14.8   |

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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E



#60

4-Chlorophenyl-phenylether

Concen: 44.66 ng

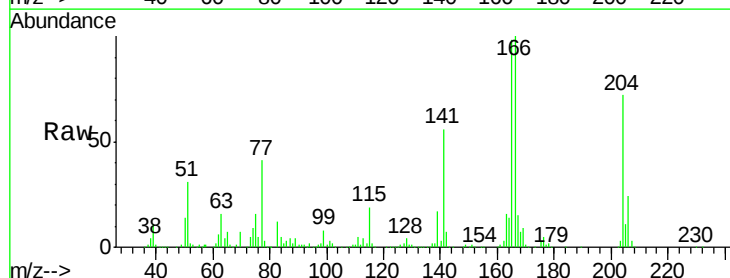
RT: 10.21 min Scan# 711

Delta R.T. -0.06 min

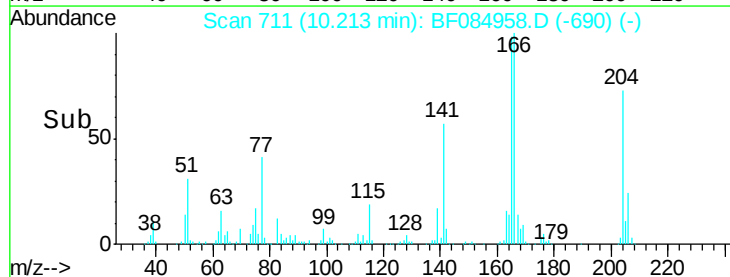
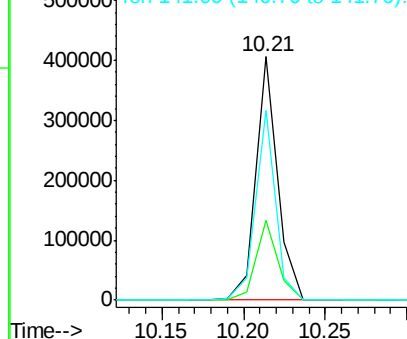
Lab File: BF084958.D

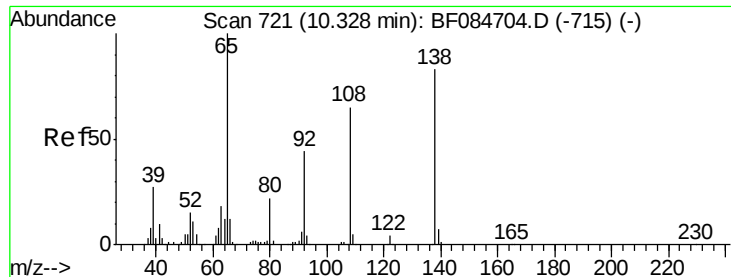
Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 375294 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 33.0  | 25.7  | 38.5   |
| 141       | 77.8  | 55.1  | 82.7   |



Abundance Ion 204.00 (203.70 to 204.70): E  
Ion 206.00 (205.70 to 206.70): E  
Ion 141.00 (140.70 to 141.70): E





#61

4-Nitroaniline

Concen: 47.66 ng

RT: 10.26 min Scan# 715

Delta R.T. -0.05 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

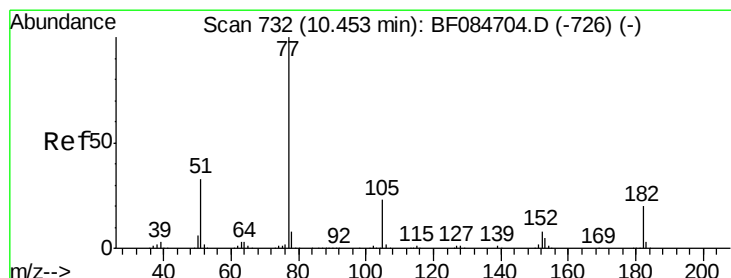
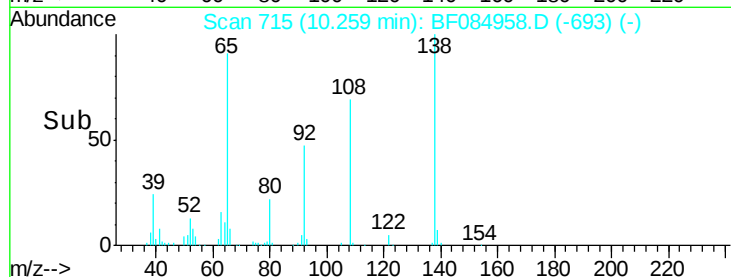
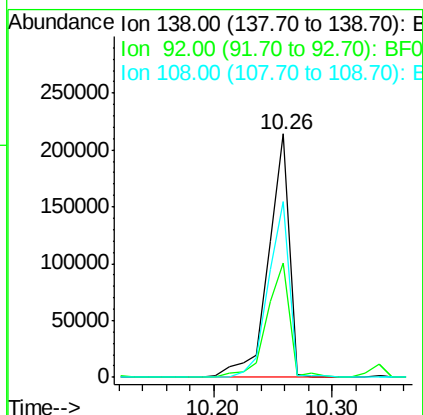
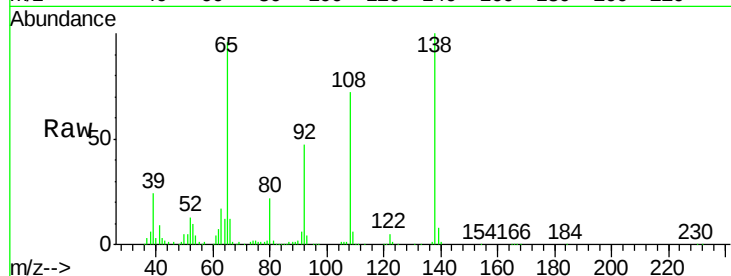
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 138   | Resp: | 261713 |
| Ion Ratio | Lower | Upper |        |
| 138       | 100   |       |        |
| 92        | 46.9  | 32.6  | 72.6   |
| 108       | 72.2  | 68.6  | 108.6  |

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2/10/2016 1:45:03 PM



#62

Azobenzene

Concen: 45.13 ng

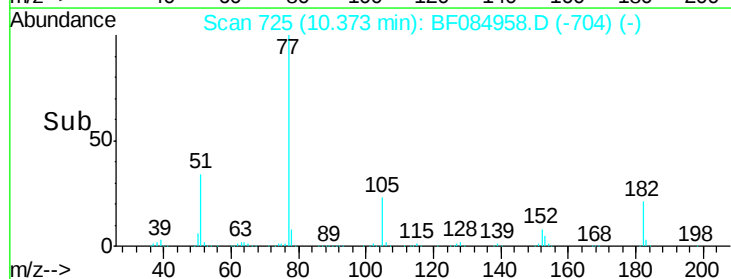
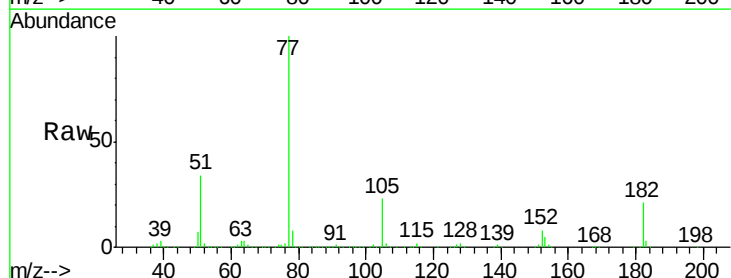
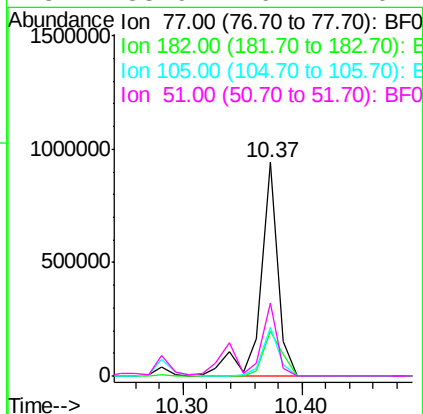
RT: 10.37 min Scan# 725

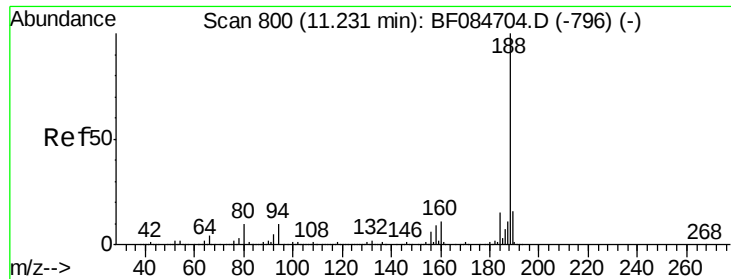
Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 972876 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 182       | 20.8  | 8.3   | 48.3   |
| 105       | 22.8  | 4.6   | 44.6   |
| 51        | 33.9  | 6.2   | 46.2   |





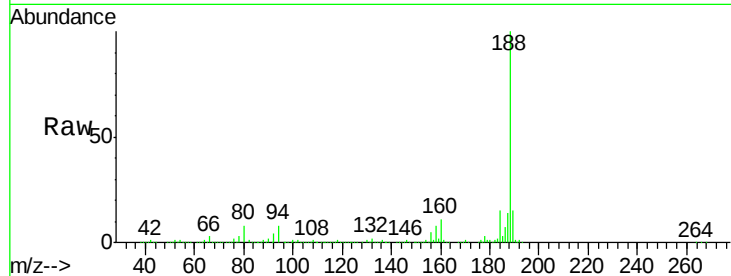
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.15 min Scan# 793  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

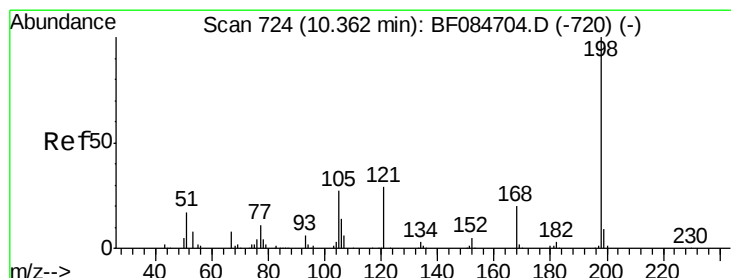
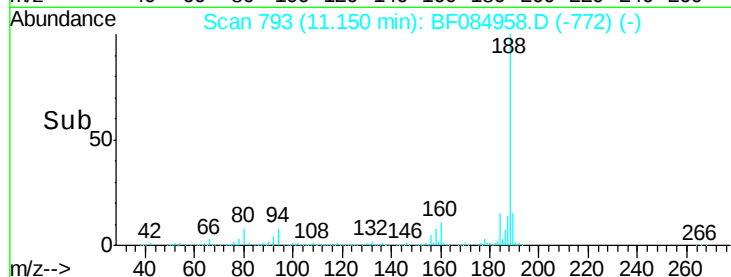
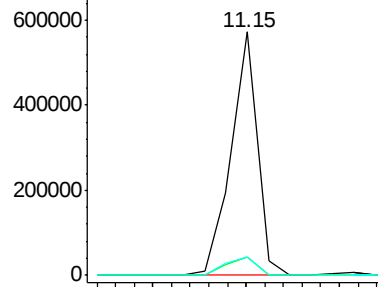
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 7.5   | 9.0        | 13.4# |
| 80      | 7.7   | 9.6        | 14.4# |

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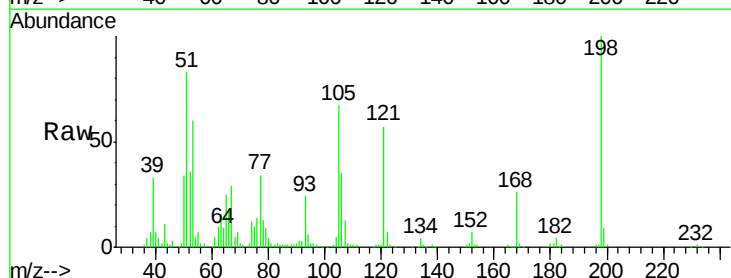


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

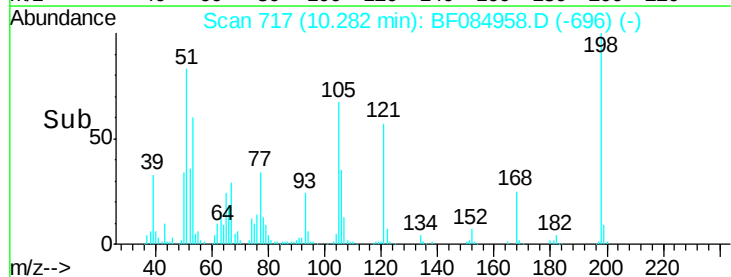
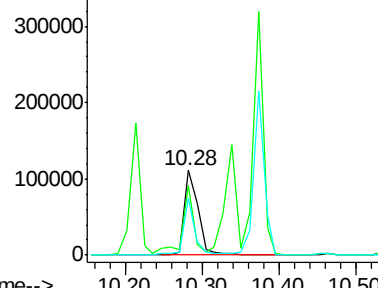


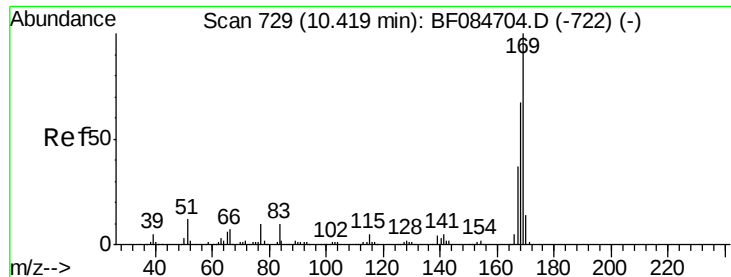
#64  
4,6-Dinitro-2-methylphenol  
Concen: 41.58 ng  
RT: 10.28 min Scan# 717  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 198     | 100   |            |       |
| 51      | 82.9  | 18.9       | 58.9# |
| 105     | 66.6  | 26.4       | 66.4# |



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF0  
Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 44.87 ng

RT: 10.34 min Scan# 722

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

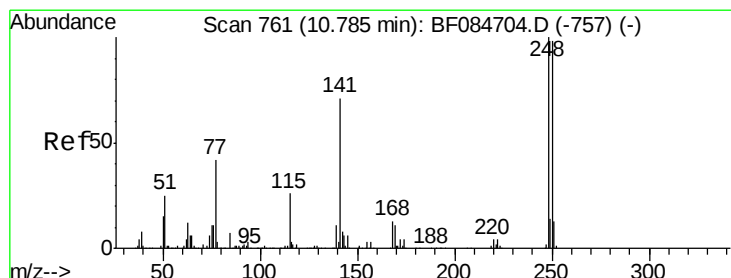
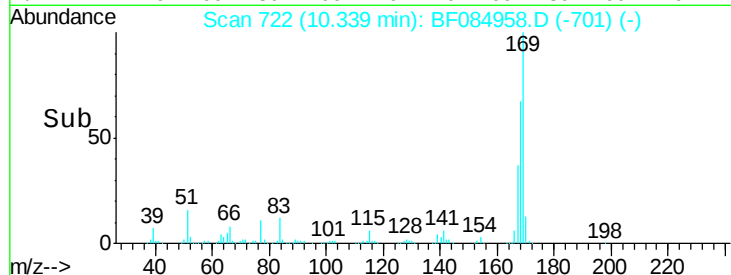
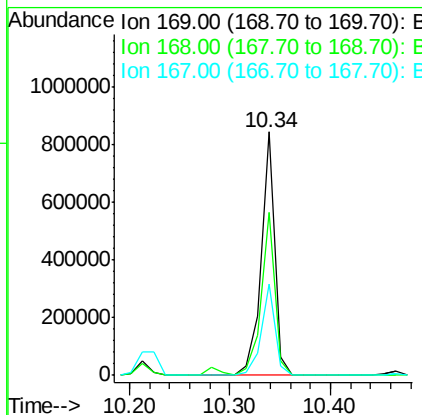
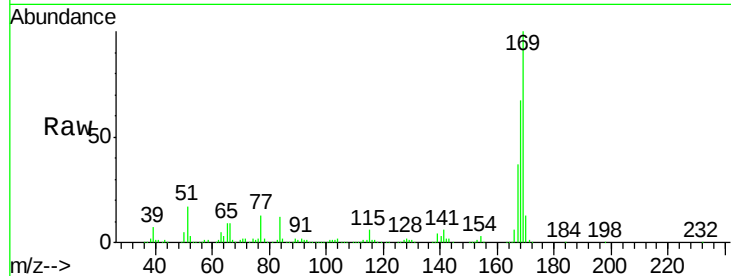
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 169   | Resp: | 792545 |
| Ion Ratio | Lower | Upper |        |
| 169       | 100   |       |        |
| 168       | 66.8  | 55.1  | 82.7   |
| 167       | 37.3  | 30.0  | 45.0   |

Manual Integrations  
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2/10/2016 1:45:03 PM



#66

4-Bromophenyl-phenylether

Concen: 45.77 ng

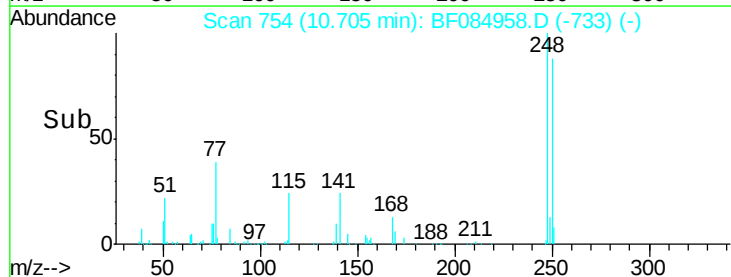
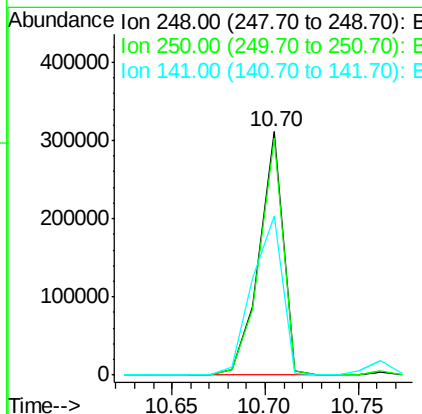
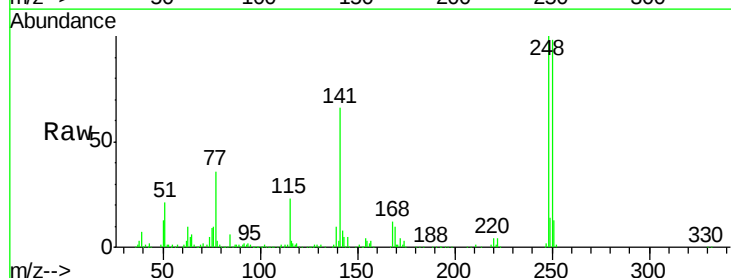
RT: 10.70 min Scan# 754

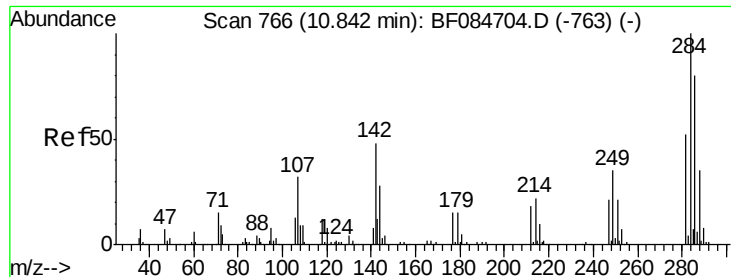
Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 248   | Resp: | 281242 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 250       | 97.6  | 78.4  | 117.6  |
| 141       | 65.5  | 44.0  | 66.0   |





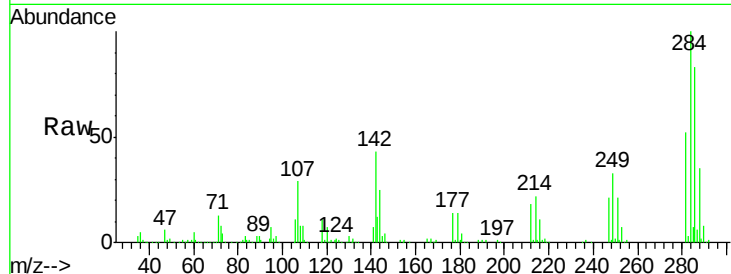
#67  
Hexachlorobenzene  
Concen: 39.93 ng  
RT: 10.76 min Scan# 759  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

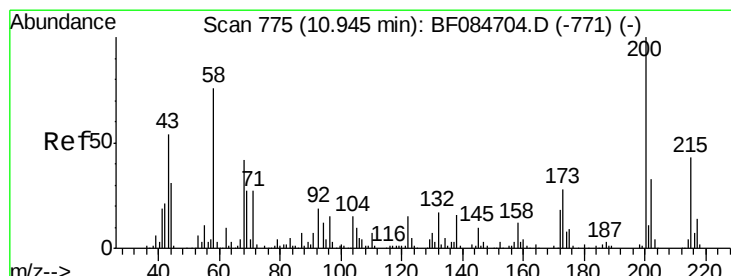
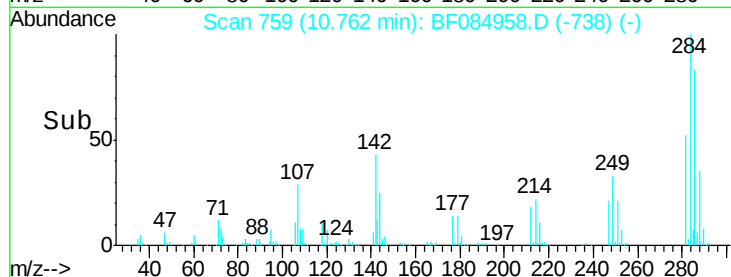
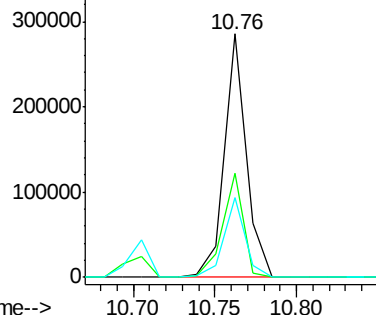
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 284     | 100   |            |       |
| 142     | 42.9  | 22.2       | 33.4# |
| 249     | 32.5  | 24.6       | 37.0  |

Manual Integrations  
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Sohil  
2/10/2016 1:45:03 PM

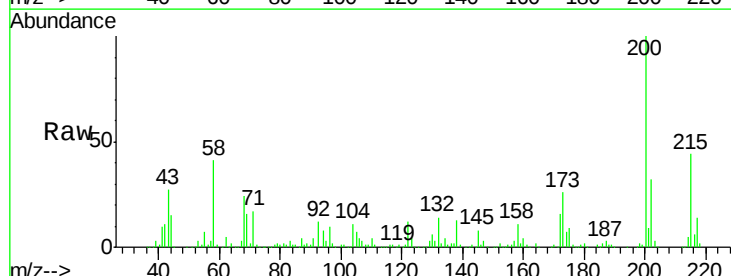


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

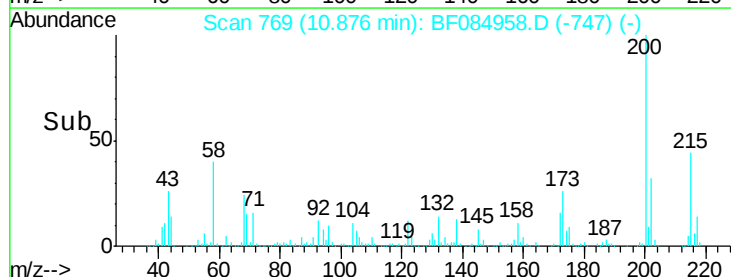
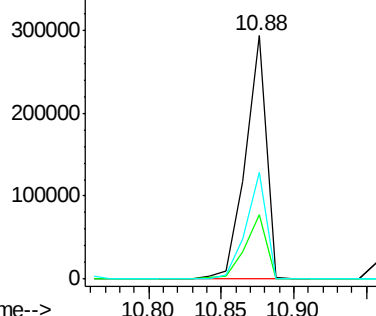


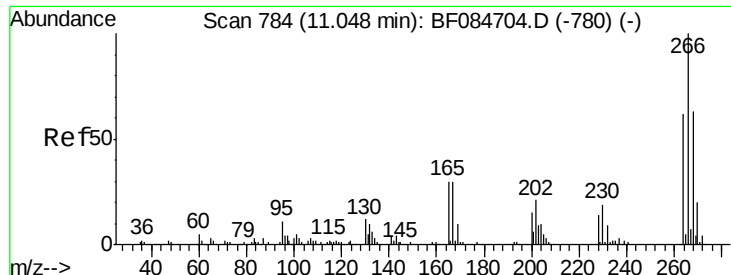
#68  
Atrazine  
Concen: 52.47 ng  
RT: 10.88 min Scan# 769  
Delta R.T. -0.05 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 200     | 100   |            |       |
| 173     | 26.4  | 9.5        | 49.5  |
| 215     | 44.0  | 23.8       | 63.8  |



Abundance Ion 200.00 (199.70 to 200.70): E  
Ion 173.00 (172.70 to 173.70): E  
Ion 215.00 (214.70 to 215.70): E





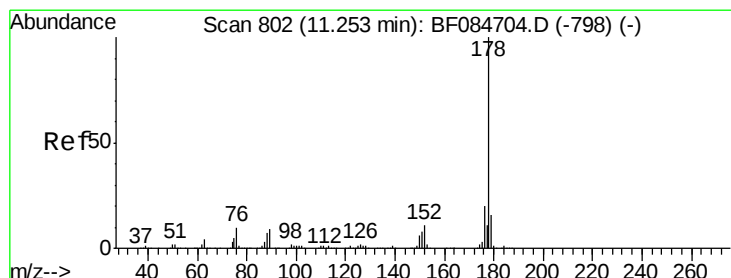
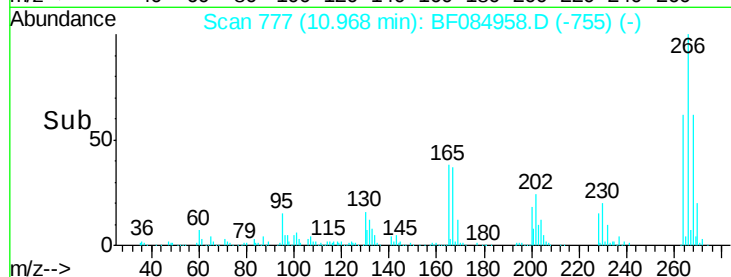
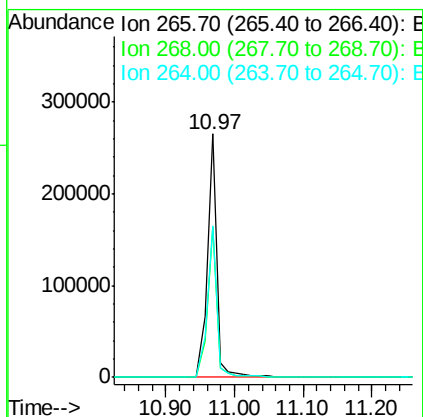
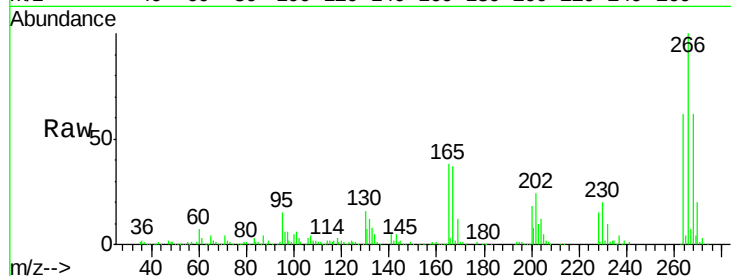
#69  
 Pentachlorophenol  
 Concen: 81.25 ng  
 RT: 10.97 min Scan# 777  
 Delta R.T. -0.05 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 61.9  | 52.4  | 78.6  |
| 264     | 62.5  | 50.2  | 75.2  |

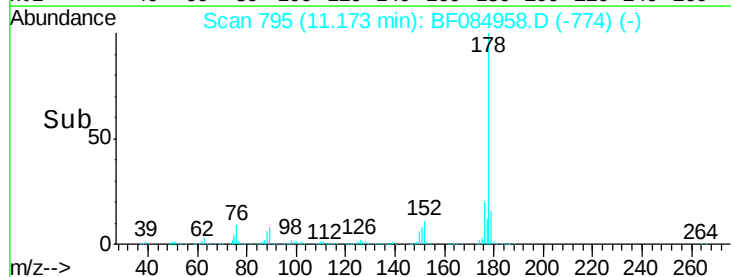
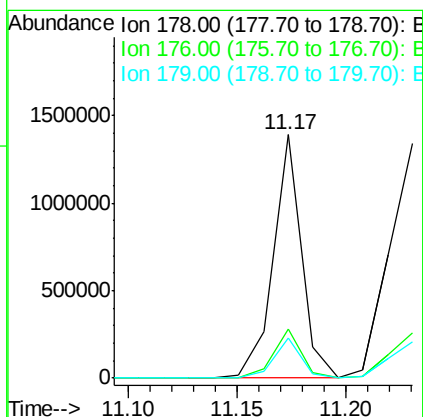
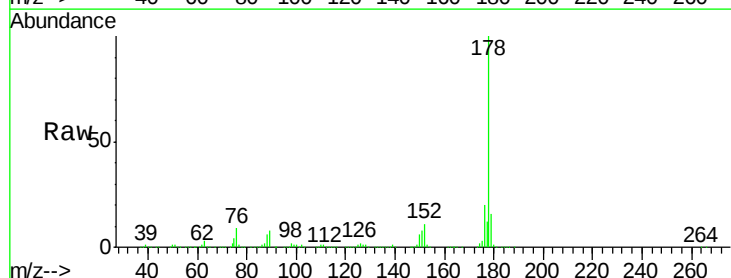
Manual Integrations  
 APPROVED

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#70  
 Phenanthrene  
 Concen: 41.33 ng  
 RT: 11.17 min Scan# 795  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.9  | 15.3  | 22.9  |
| 179     | 16.2  | 12.0  | 18.0  |





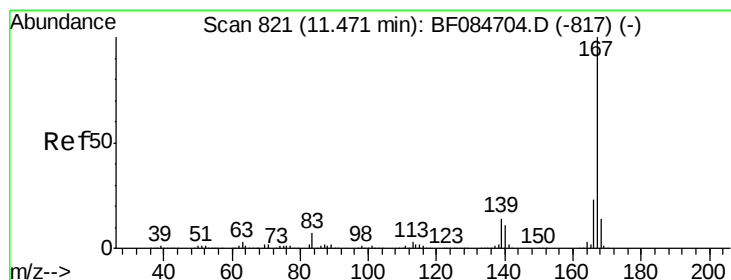
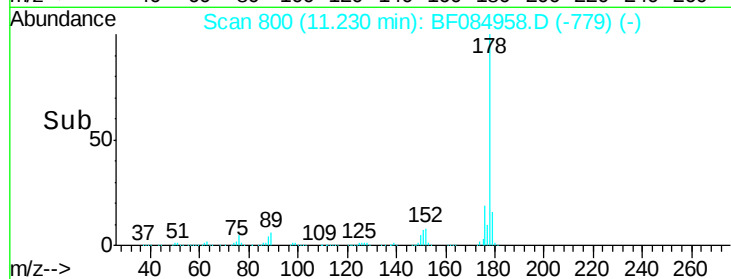
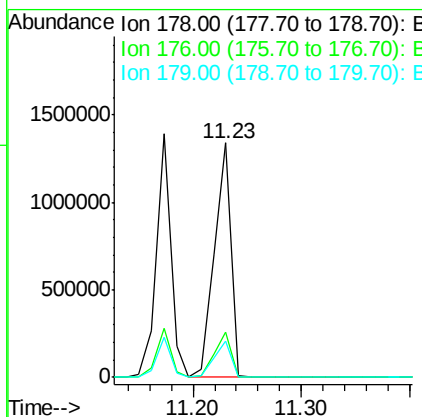
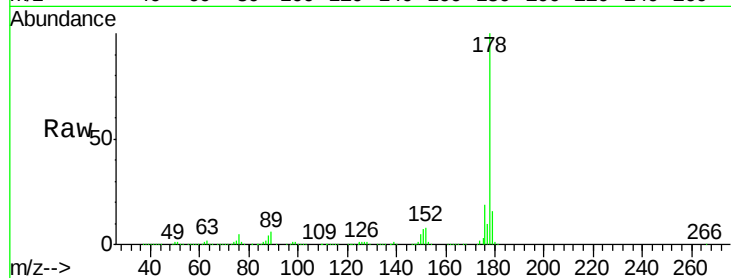
#71  
 Anthracene  
 Concen: 46.60 ng  
 RT: 11.23 min Scan# 800  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

Tot Ion:178 Resp: 1448913  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.4 23.0  
 179 15.7 12.5 18.7

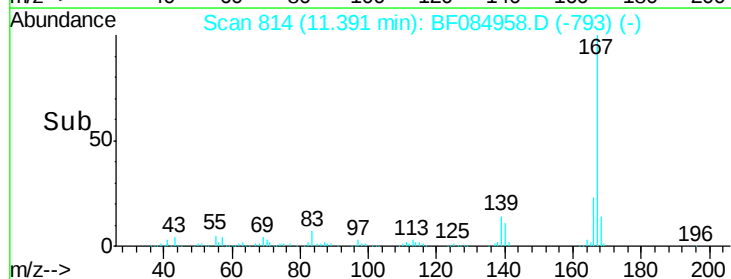
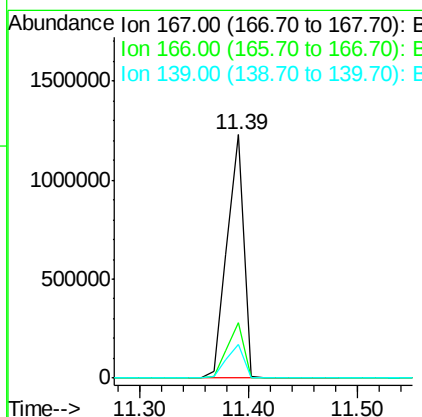
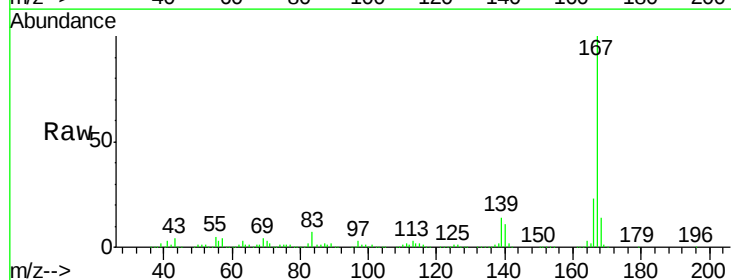
Manual Integrations  
 APPROVED

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 2/10/2016 1:45:03 PM



#72  
 Carbazole  
 Concen: 48.24 ng  
 RT: 11.39 min Scan# 814  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Tgt Ion:167 Resp: 1307807  
 Ion Ratio Lower Upper  
 167 100  
 166 22.9 17.6 26.4  
 139 14.1 11.8 17.8





#73

Di-n-butylphthalate

Concen: 40.55 ng

RT: 11.72 min Scan# 843

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

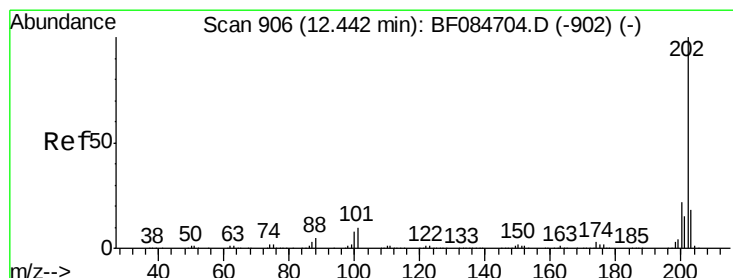
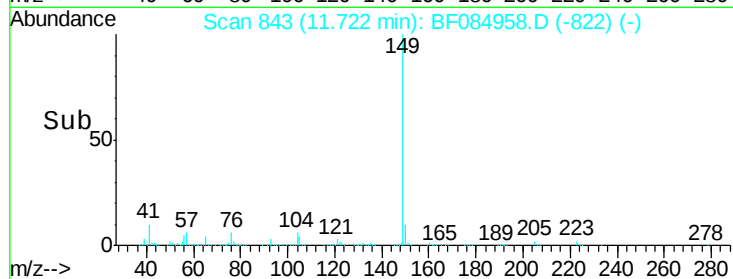
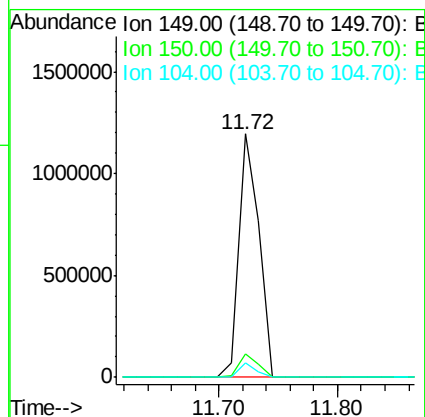
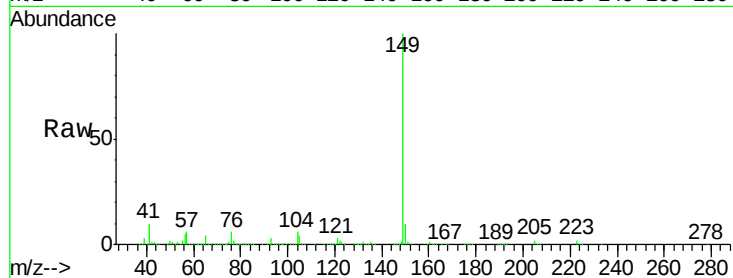
ClientSampleId :

S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.8   | 7.1   | 10.7  |
| 104     | 5.9   | 3.2   | 4.8   |

Manual Integrations  
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2/10/2016 1:45:03 PM



#74

Fluoranthene

Concen: 43.51 ng

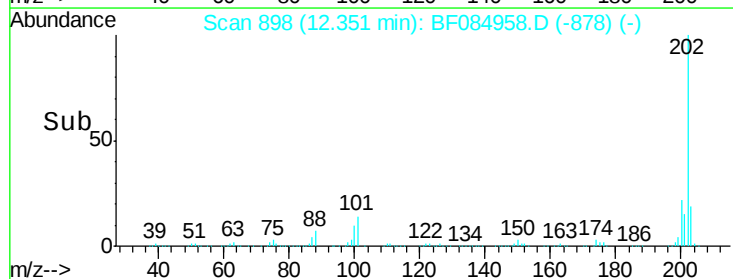
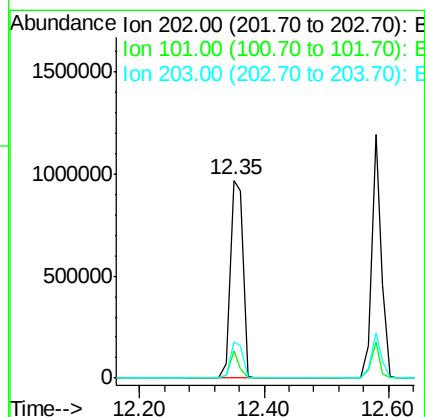
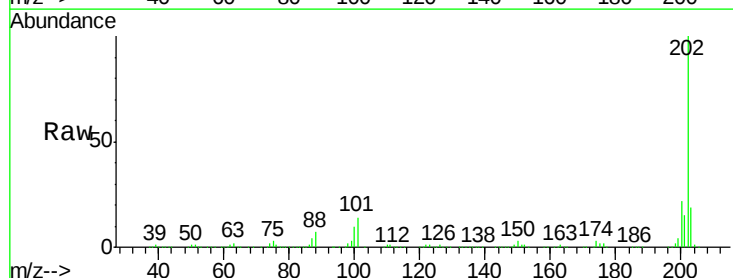
RT: 12.35 min Scan# 898

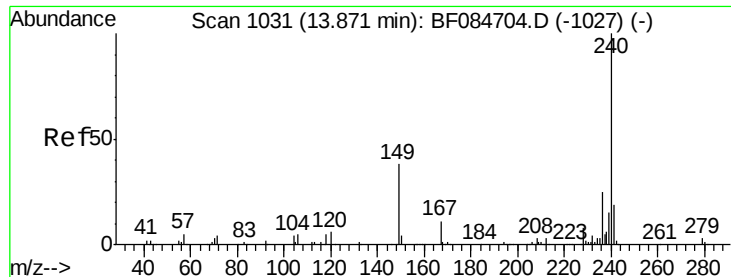
Delta R.T. -0.07 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.7  | 0.0   | 32.8  |
| 203     | 18.5  | 0.0   | 37.9  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.78 min Scan# 1023

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

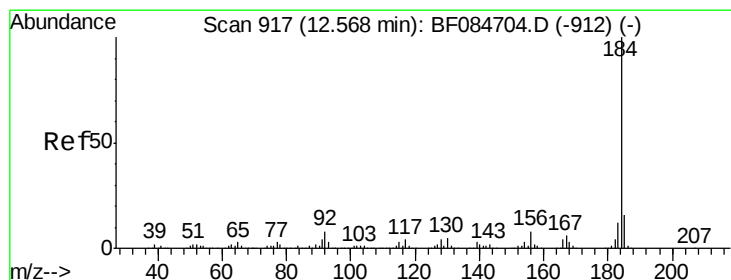
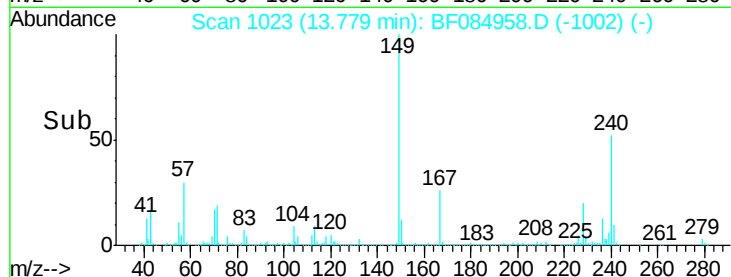
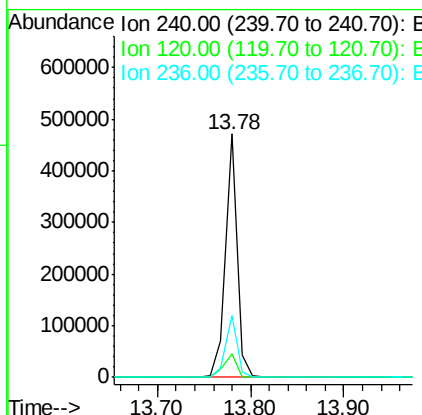
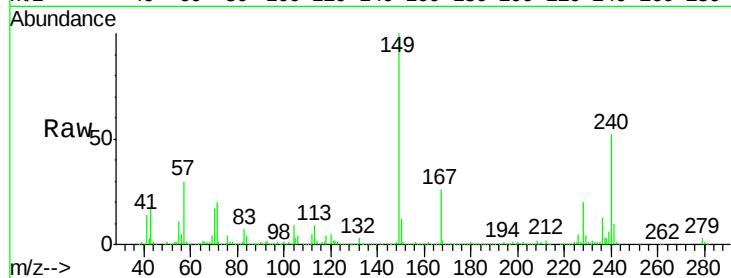
ClientSampleId :

S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.7   | 9.5   | 14.3  |
| 236     | 25.3  | 20.6  | 31.0  |

Manual Integrations  
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#76

Benzidine

Concen: 30.36 ng

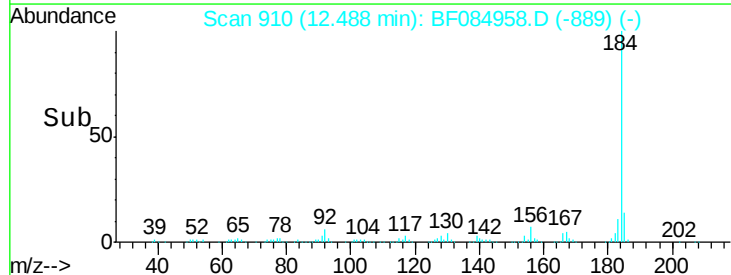
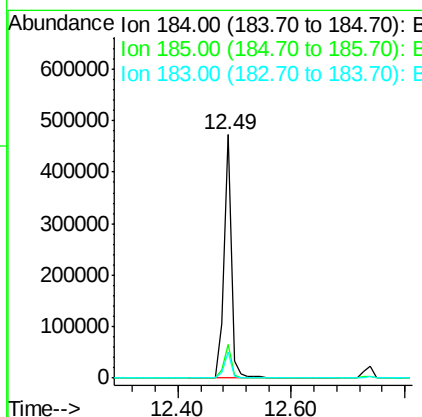
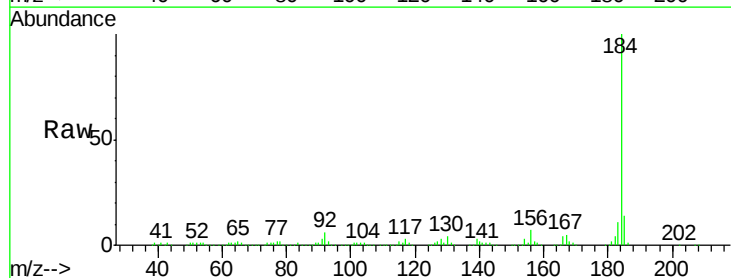
RT: 12.49 min Scan# 910

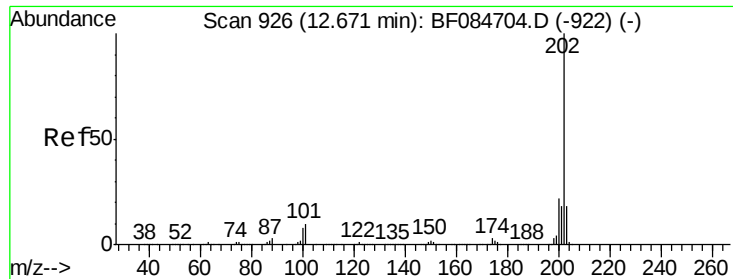
Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 13.9  | 12.2  | 18.2  |
| 183     | 10.7  | 9.8   | 14.8  |





#77

Pvrene

Concen: 40.19 ng

RT: 12.58 min Scan# 918

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion:202 Resp: 1257488

Ion Ratio Lower Upper

202 100

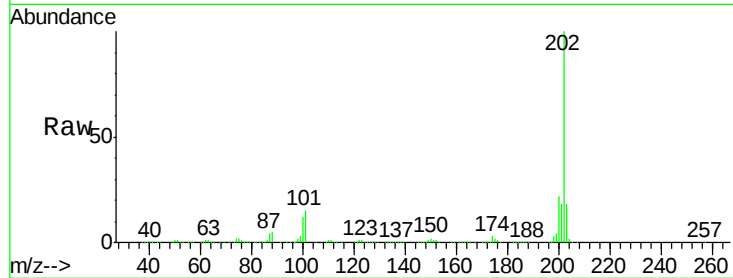
200 21.9 17.2 25.8

203 18.3 14.3 21.5

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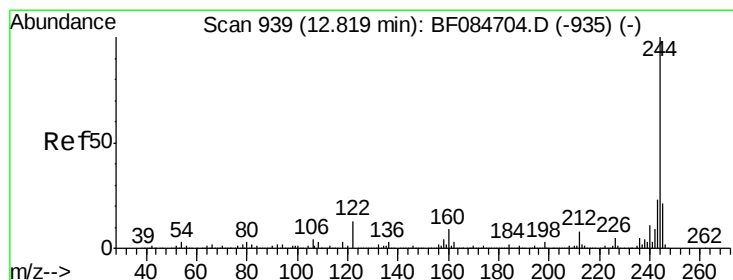
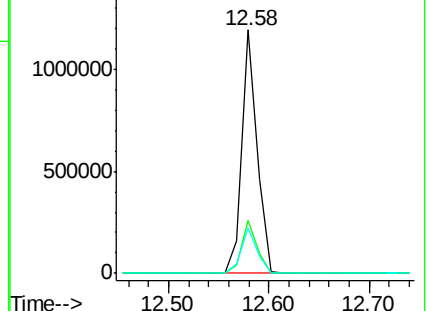
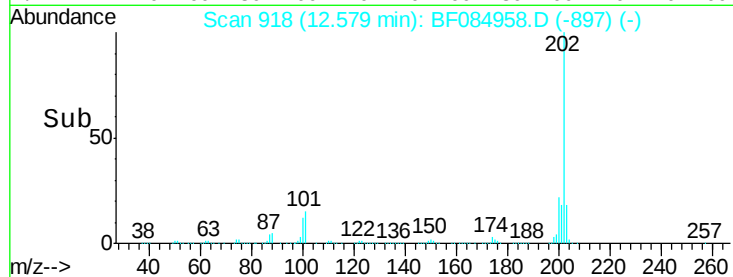
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 93.31 ng

RT: 12.74 min Scan# 932

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

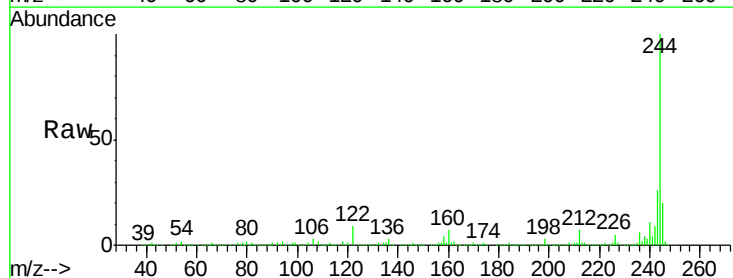
Tgt Ion:244 Resp: 1682976

Ion Ratio Lower Upper

244 100

212 7.2 5.7 8.5

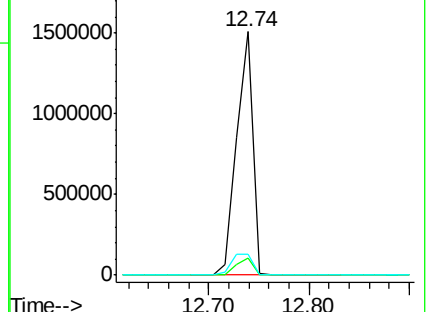
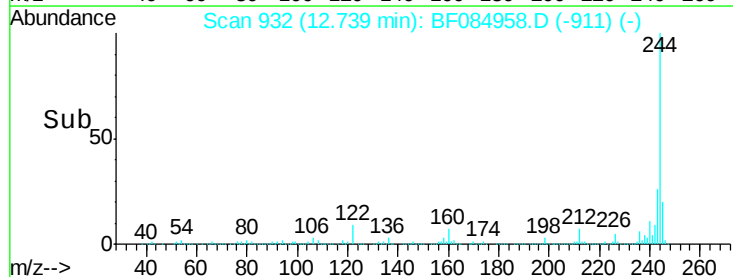
122 8.8 7.4 11.0

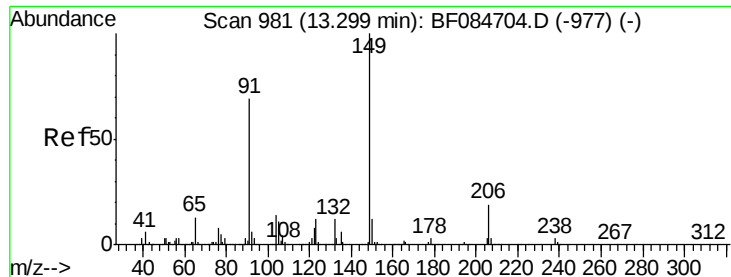


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





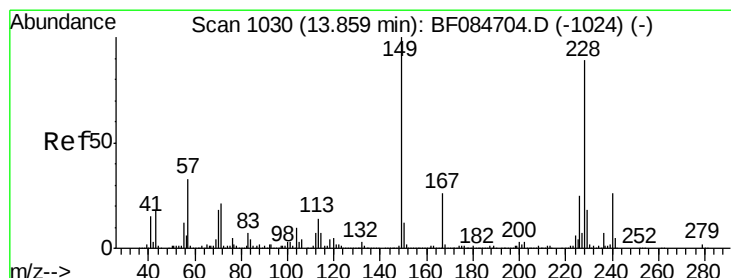
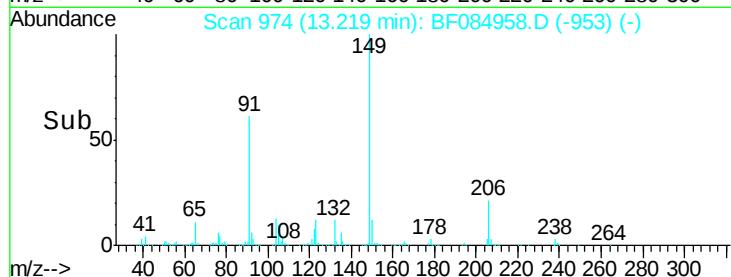
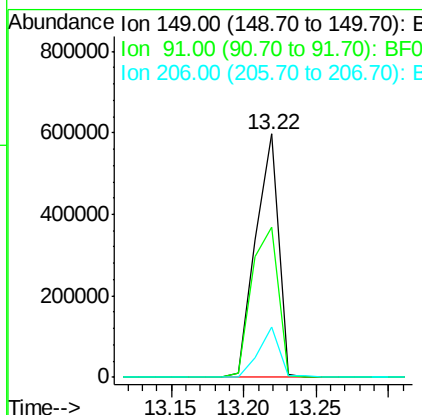
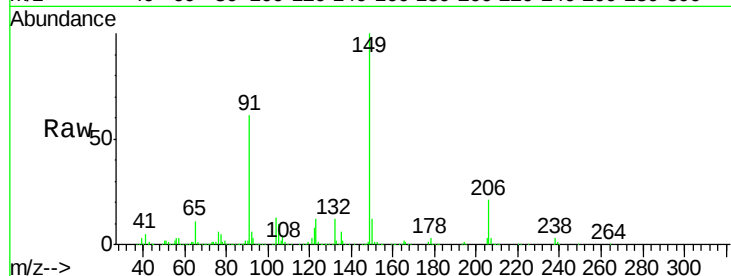
#79  
Butylbenzylphthalate  
Concen: 46.05 ng  
RT: 13.22 min Scan# 974  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 61.5  | 57.6  | 86.4  |
| 206     | 20.9  | 13.2  | 19.8  |

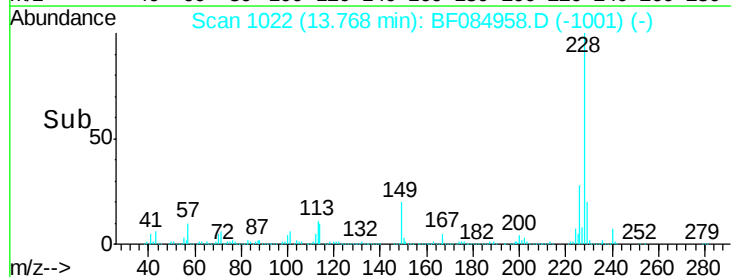
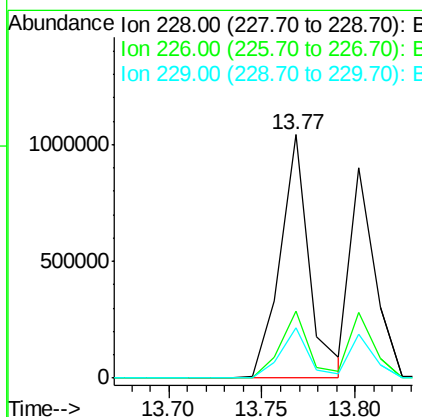
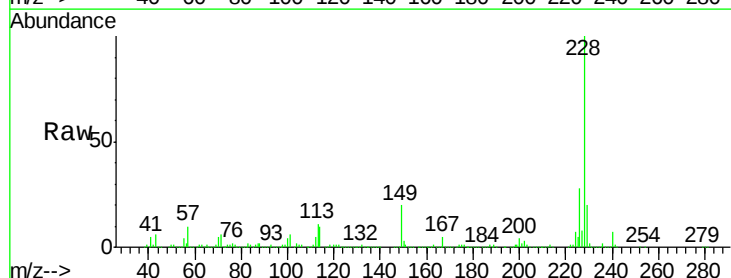
Manual Integrations  
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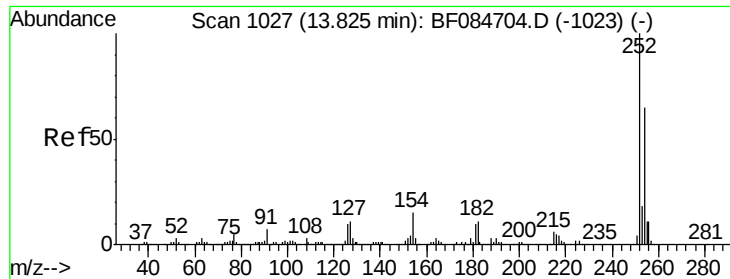
Sohil  
2/10/2016 1:45:03 PM



#80  
Benzo(a)anthracene  
Concen: 44.58 ng  
RT: 13.77 min Scan# 1022  
Delta R.T. -0.06 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 21.8  | 32.6  |
| 229     | 20.5  | 15.8  | 23.8  |





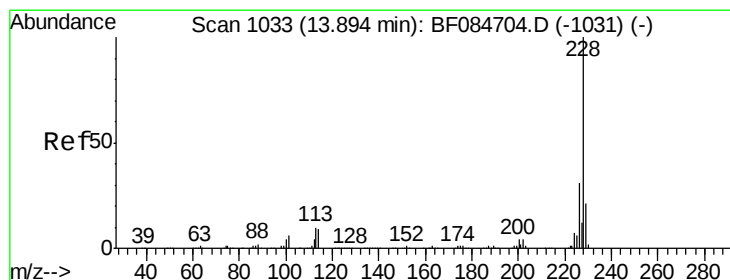
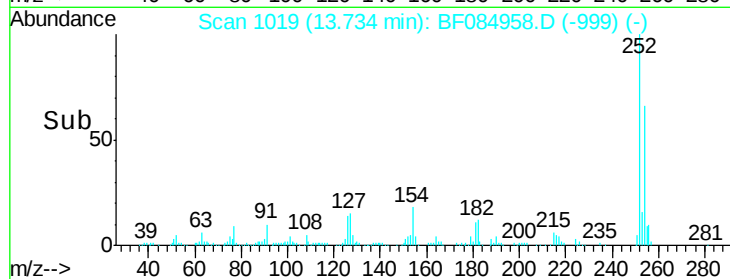
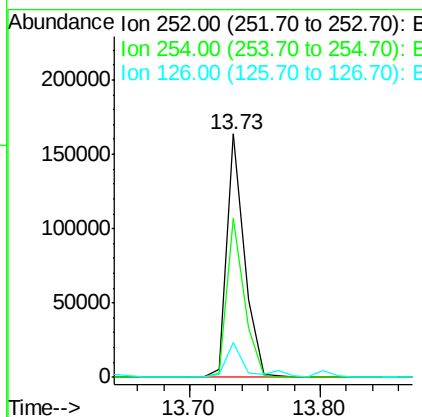
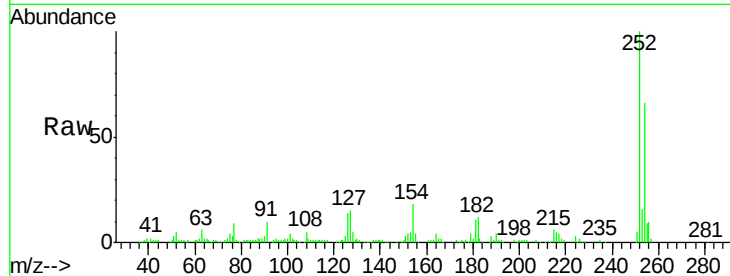
#81  
 3,3'-Dichlorobenzidine  
 Concen: 17.18 ng  
 RT: 13.73 min Scan# 1019  
 Delta R.T. -0.07 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B005(28-30)MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 254     | 65.5  | 53.5       | 80.3  |
| 126     | 14.3  | 4.9        | 7.3#  |

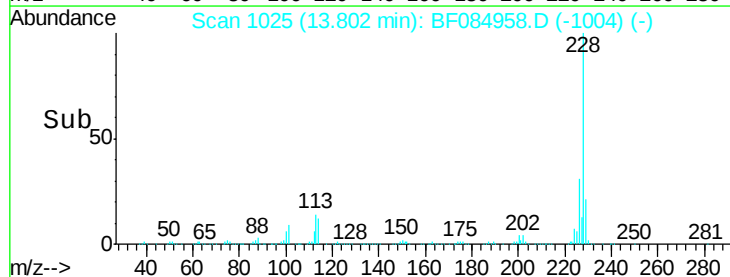
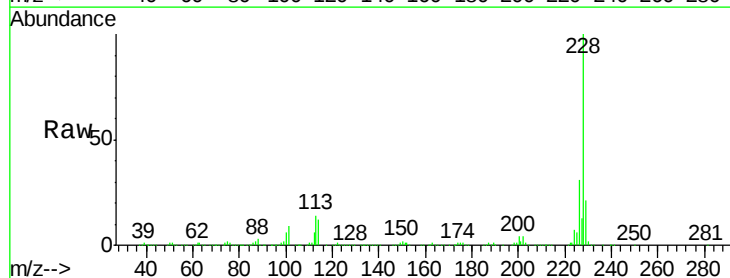
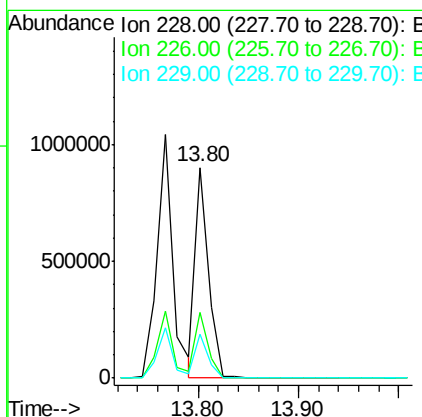
Manual Integrations  
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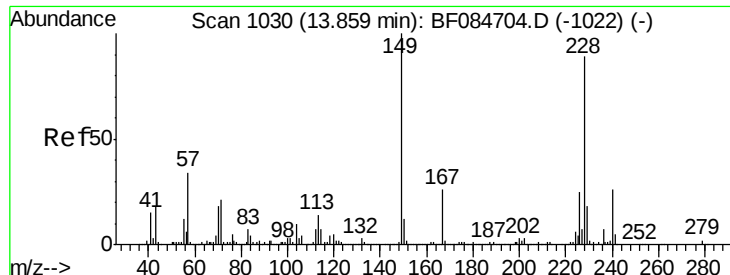
Sohil  
 2/10/2016 1:45:03 PM



#82  
 Chrysene  
 Concen: 34.19 ng  
 RT: 13.80 min Scan# 1025  
 Delta R.T. -0.06 min  
 Lab File: BF084958.D  
 Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 31.3  | 24.3       | 36.5  |
| 229     | 20.7  | 16.1       | 24.1  |





#83

Bis(2-ethylhexyl)phthalate

Concen: 45.60 ng

RT: 13.78 min Scan# 1023

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

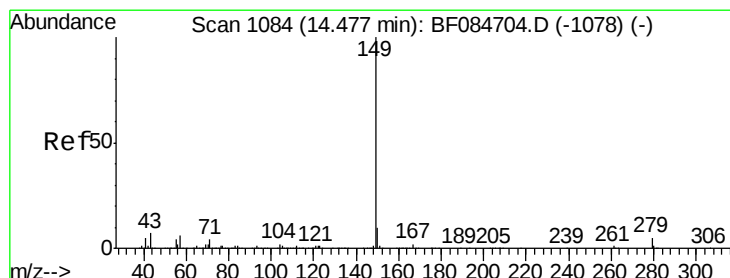
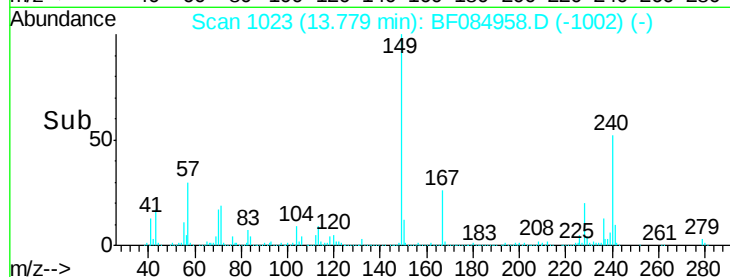
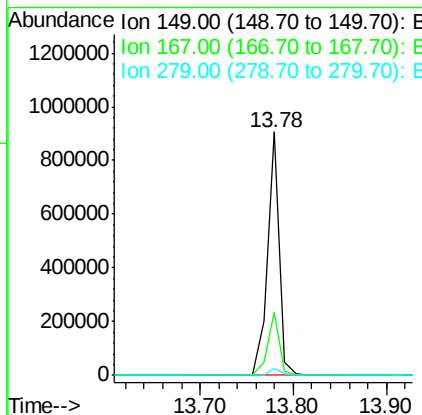
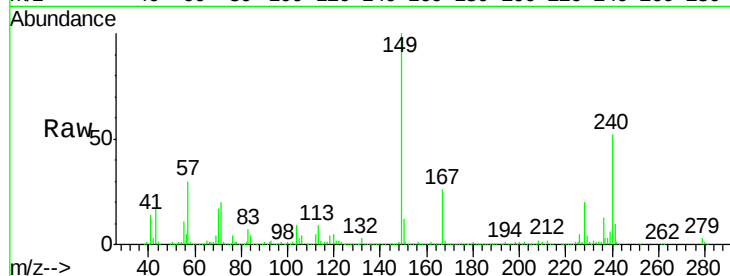
ClientSampleId :

S4-B005(28-30)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 805523 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 25.8  | 19.7  | 29.5   |
| 279       | 2.7   | 1.8   | 2.6#   |

Manual Integrations  
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#84

Di-n-octyl phthalate

Concen: 41.59 ng

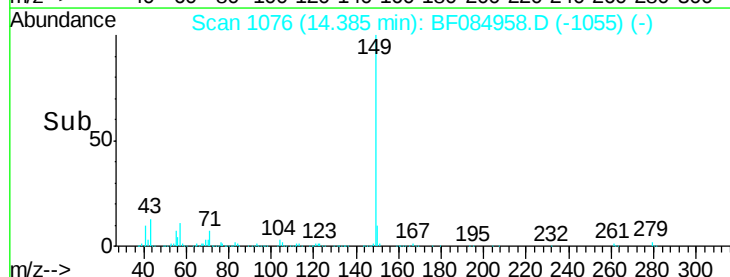
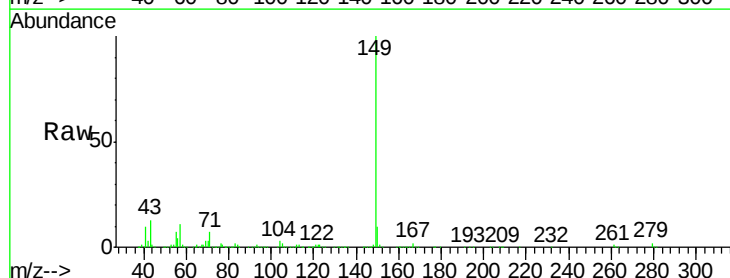
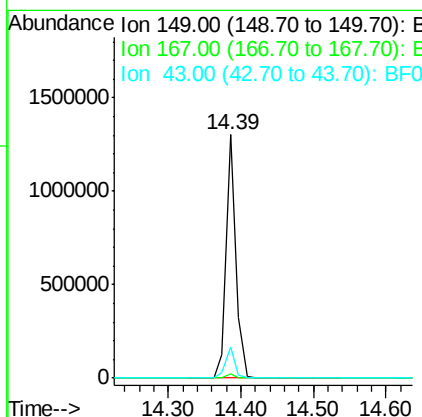
RT: 14.39 min Scan# 1076

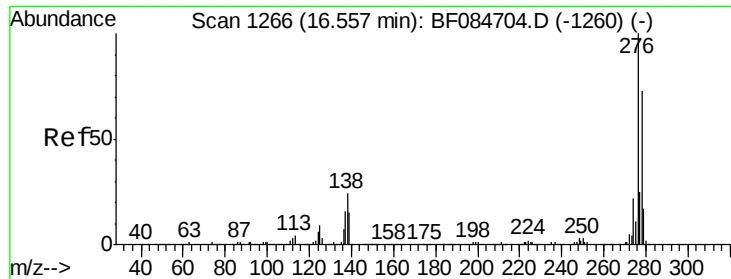
Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 149   | Resp: | 1212035 |
| Ion Ratio | Lower | Upper |         |
| 149       | 100   |       |         |
| 167       | 1.8   | 1.2   | 1.8     |
| 43        | 12.2  | 5.6   | 8.4#    |





#85

Indeno(1,2,3-cd)pyrene

Concen: 43.13 ng

RT: 16.40 min Scan# 1252

Delta R.T. -0.10 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

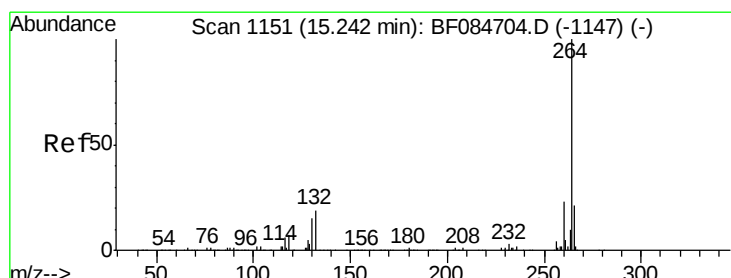
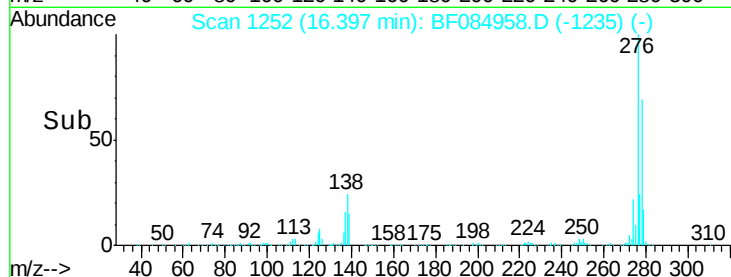
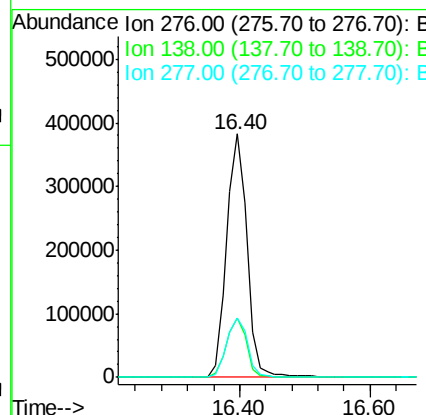
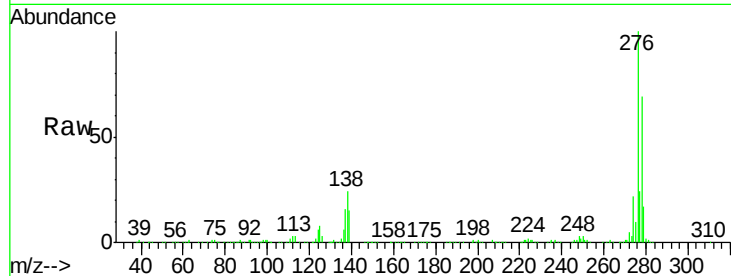
ClientSampleId :

S4-B005(28-30)MSD

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 276  | Resp: | 835080 |
| Ion Ratio |      | Lower | Upper  |
| 276       | 100  |       |        |
| 138       | 24.4 | 20.6  | 30.8   |
| 277       | 24.9 | 20.1  | 30.1   |

Manual Integrations  
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#86

Perylene-d12

Concen: 20.00 ng

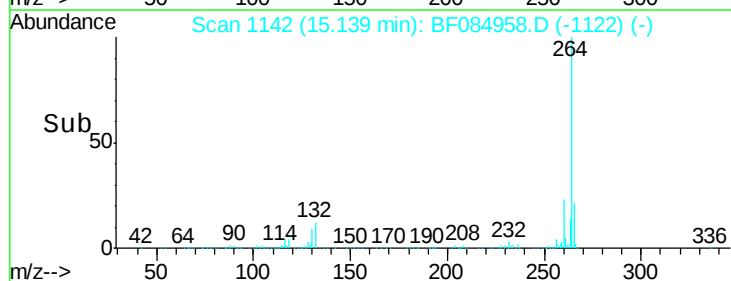
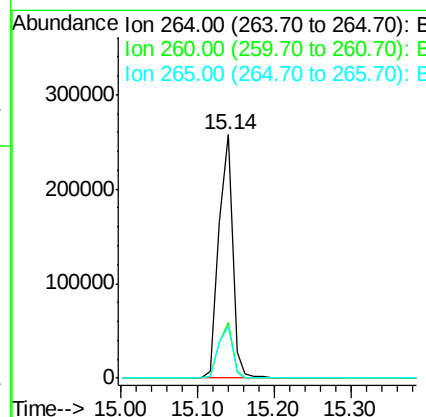
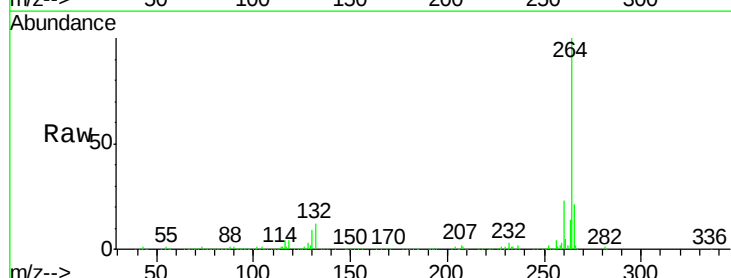
RT: 15.14 min Scan# 1142

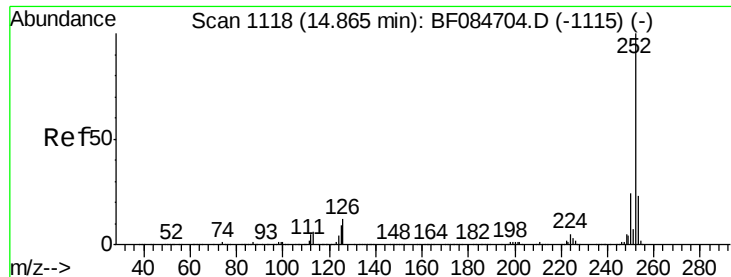
Delta R.T. -0.07 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 321731 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 22.9 | 19.4  | 29.2   |
| 265       | 21.1 | 17.8  | 26.6   |





#87

Benzo(b)fluoranthene

Concen: 48.59 ng m

RT: 14.77 min Scan# 1110

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

Tot Ion:252 Resp: 1050344

Ion Ratio Lower Upper

252 100

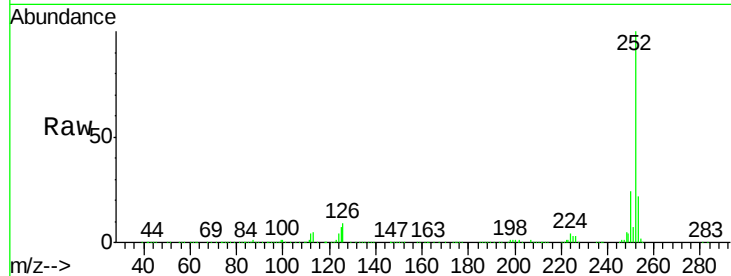
253 22.2 17.3 25.9

125 7.1 6.5 9.7

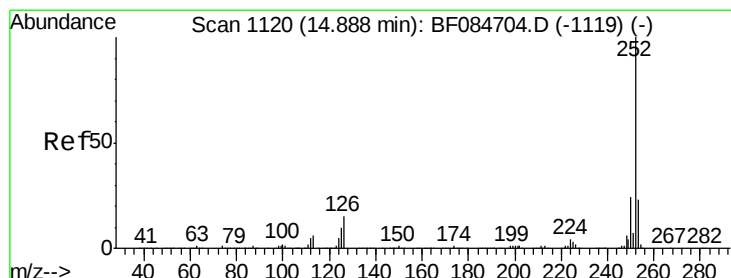
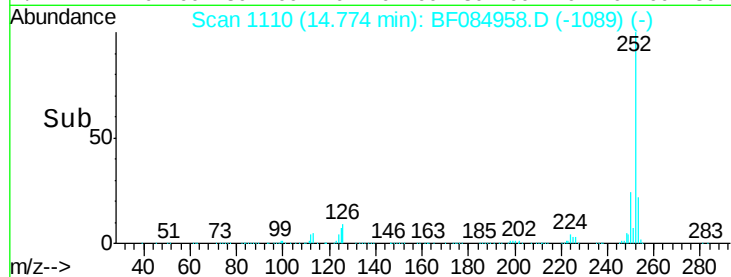
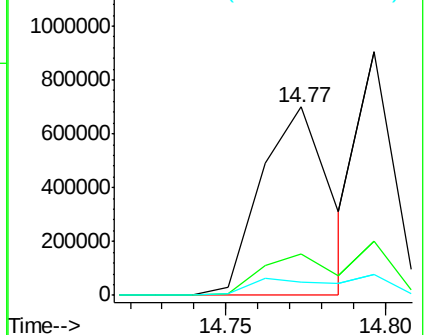
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 39.77 ng m

RT: 14.80 min Scan# 1112

Delta R.T. -0.06 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Tgt Ion:252 Resp: 710757

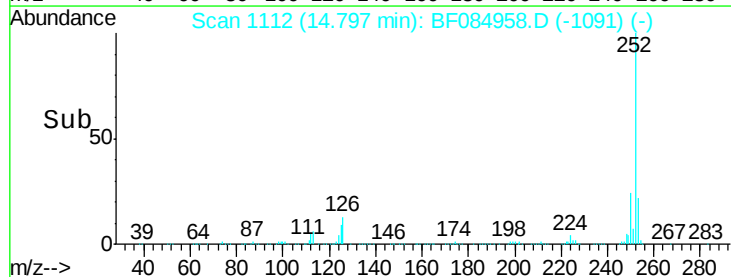
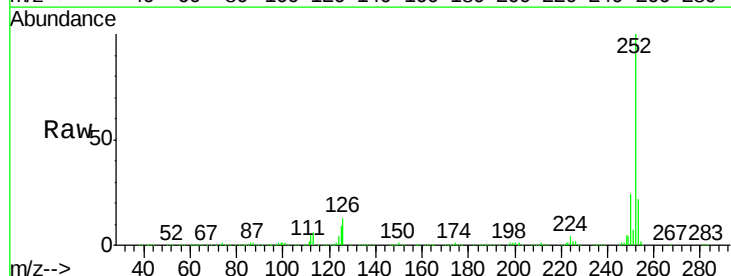
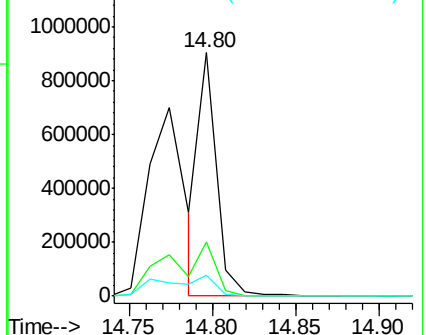
Ion Ratio Lower Upper

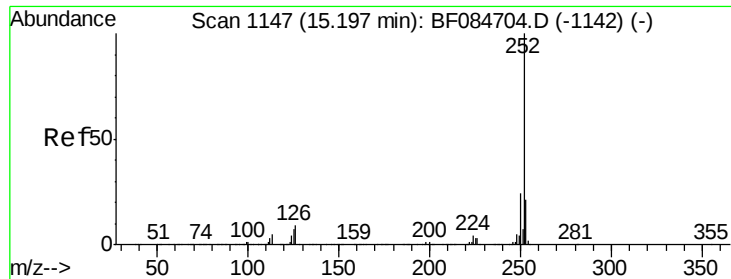
252 100

253 22.1 18.1 27.1

125 8.7 9.0 13.6#

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





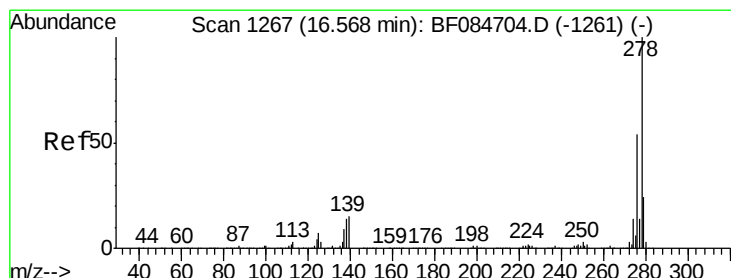
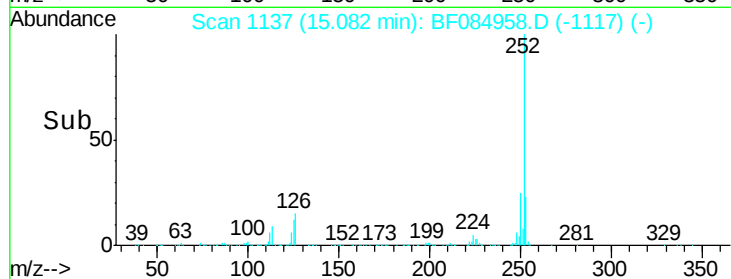
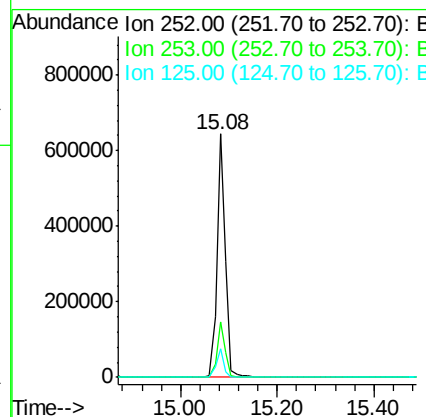
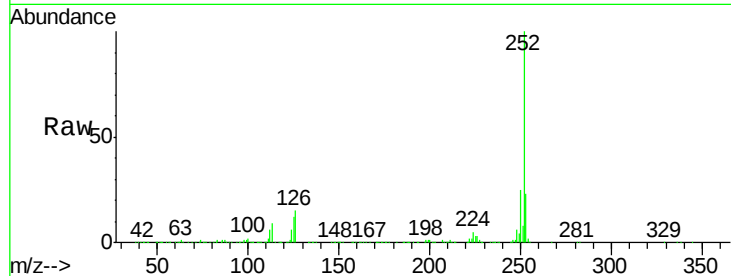
#89  
Benzo(a)pyrene  
Concen: 43.26 ng  
RT: 15.08 min Scan# 1137  
Delta R.T. -0.07 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B005(28-30)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.3  | 25.9  |
| 125     | 11.6  | 7.0   | 10.4  |

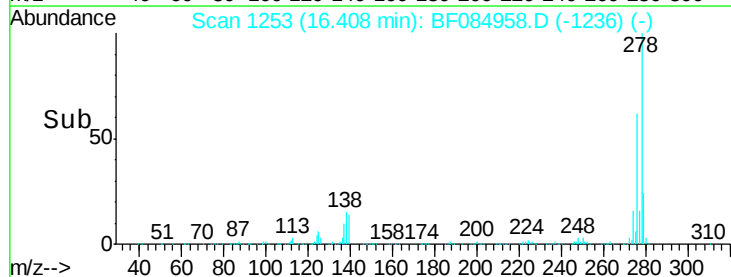
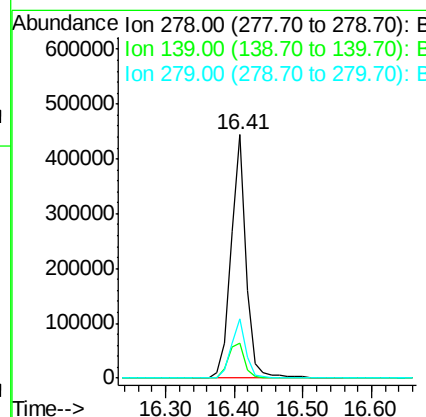
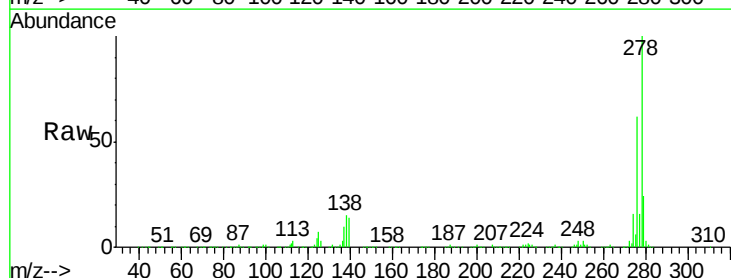
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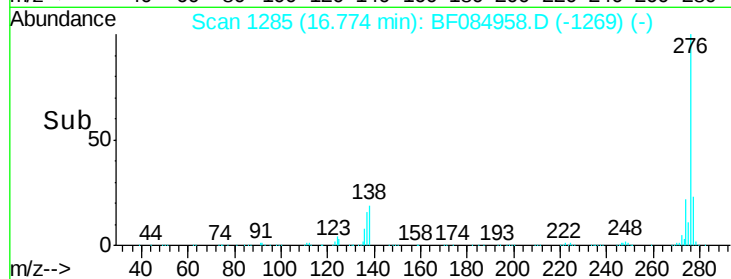
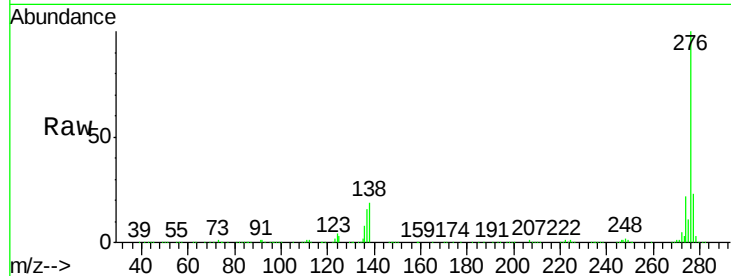
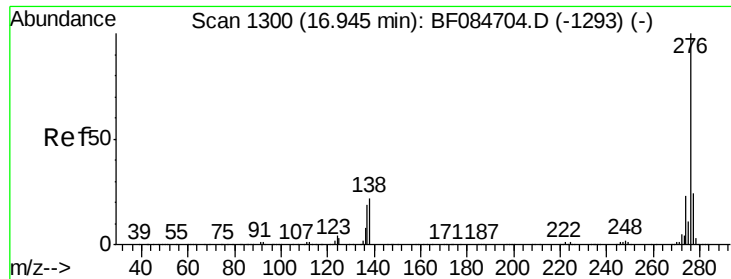
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#90  
Dibenzo(a,h)anthracene  
Concen: 44.59 ng  
RT: 16.41 min Scan# 1253  
Delta R.T. -0.10 min  
Lab File: BF084958.D  
Acq: 9 Feb 2016 18:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 14.4  | 15.0  | 22.4  |
| 279     | 24.2  | 18.9  | 28.3  |





#91

Benzo(a,h,i)perylene

Concen: 45.60 ng

RT: 16.77 min Scan# 1285

Delta R.T. -0.11 min

Lab File: BF084958.D

Acq: 9 Feb 2016 18:06

Instrument :

BNA\_F

ClientSampleId :

S4-B005(28-30)MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 712182 |       |       |
| 277     | 23.4  | 18.8   | 28.2  |       |
| 138     | 19.1  | 17.8   | 26.6  |       |

Manual Integrations  
APPROVED

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