

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030718\  
 Data File : BF103509.D  
 Acq On : 7 Mar 2018 18:53  
 Operator : SJ/JU  
 Sample : J1808-02MSD  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

Manual Integrations  
 APPROVED

Sohil  
 3/8/2018 4:43:09 PM

Quant Time: Mar 08 04:26:44 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 07 11:40:36 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 95926    | 20.00 | ng    | 0.02     |
| 21) Naphthalene-d8        | 8.17  | 136  | 213775   | 20.00 | ng    | 0.02     |
| 38) Acenaphthene-d10      | 9.91  | 164  | 218199   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 313150   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 193585   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.56 | 264  | 159271   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 956297  | 150.78 | ng | 0.02 |
| 7) Phenol-d6             | 6.52  | 99  | 1132269 | 145.89 | ng | 0.02 |
| 23) Nitrobenzene-d5      | 7.47  | 82  | 426296  | 113.88 | ng | 0.03 |
| 41) 2,4,6-Tribromophenol | 10.70 | 330 | 201890  | 109.31 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.23  | 172 | 1113064 | 88.79  | ng | 0.00 |
| 78) Terphenyl-d14        | 12.99 | 244 | 782532  | 97.17  | ng | 0.00 |

## Target Compounds

|                                |      |     |         |         |    | Qvalue |
|--------------------------------|------|-----|---------|---------|----|--------|
| 2) 1,4-Dioxane                 | 2.69 | 88  | 160899  | 48.031  | ng | 93     |
| 3) Pyridine                    | 3.49 | 79  | 312855  | 34.983  | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.43 | 42  | 258320  | 71.620  | ng | # 77   |
| 6) Aniline                     | 6.55 | 93  | 327039  | 29.198  | ng | # 62   |
| 8) 2-Chlorophenol              | 6.67 | 128 | 287531  | 43.639  | ng | 94     |
| 9) Benzaldehyde                | 6.44 | 77  | 148709  | 29.152  | ng | # 1    |
| 10) Phenol                     | 6.54 | 94  | 384564  | 42.683  | ng | # 58   |
| 11) bis(2-Chloroethyl)ether    | 6.63 | 93  | 291849  | 42.680  | ng | # 86   |
| 12) 1,3-Dichlorobenzene        | 6.82 | 146 | 253198m | 33.627  | ng |        |
| 13) 1,4-Dichlorobenzene        | 6.90 | 146 | 305003  | 40.403  | ng | # 89   |
| 14) 1,2-Dichlorobenzene        | 7.06 | 146 | 190201  | 27.325  | ng | # 90   |
| 15) Benzyl Alcohol             | 7.03 | 79  | 219249  | 37.489  | ng | 90     |
| 16) 2,2'-oxybis(1-Chloropropan | 7.17 | 45  | 351610  | 29.943  | ng | 52     |
| 17) 2-Methylphenol             | 7.15 | 107 | 205609  | 34.339  | ng | # 64   |
| 18) Hexachloroethane           | 7.42 | 117 | 1157538 | 421.209 | ng | # 1    |
| 19) n-Nitroso-di-n-propylamine | 7.30 | 70  | 266807  | 55.237  | ng | # 89   |
| 20) 3+4-Methylphenols          | 7.30 | 107 | 342359  | 46.905  | ng | # 63   |
| 22) Acetophenone               | 7.27 | 105 | 2062501 | 413.338 | ng | # 60   |
| 24) Nitrobenzene               | 7.48 | 77  | 366372  | 88.895  | ng | 97     |
| 25) Isophorone                 | 7.70 | 82  | 655912  | 88.967  | ng | # 88   |
| 26) 2-Nitrophenol              | 7.80 | 139 | 111141  | 57.283  | ng | # 17   |
| 27) 2,4-Dimethylphenol         | 7.83 | 122 | 149481  | 50.404  | ng | 93     |
| 28) bis(2-Chloroethoxy)methane | 7.91 | 93  | 163030  | 37.611  | ng | 94     |
| 29) 2,4-Dichlorophenol         | 8.04 | 162 | 248645  | 87.571  | ng | 96     |
| 30) 1,2,4-Trichlorobenzene     | 8.11 | 180 | 206583  | 68.323  | ng | # 93   |
| 31) Naphthalene                | 8.20 | 128 | 2984470 | 285.158 | ng | 96     |
| 32) Benzoic acid               | 7.95 | 122 | 25488   | 16.830  | ng | # 1    |
| 33) 4-Chloroaniline            | 8.25 | 127 | 263097  | 58.255  | ng | # 92   |
| 34) Hexachlorobutadiene        | 8.29 | 225 | 117739  | 74.778  | ng | 98     |
| 35) Caprolactam                | 8.60 | 113 | 77662   | 77.825  | ng | # 13   |
| 36) 4-Chloro-3-methylphenol    | 8.72 | 107 | 287038  | 89.628  | ng | 99     |
| 37) 2-Methylnaphthalene        | 8.88 | 142 | 2457285 | 363.290 | ng | 97     |
| 39) 1,2,4,5-Tetrachlorobenzene | 9.03 | 216 | 233115  | 39.080  | ng | 99     |
| 42) 2,4,6-Trichlorophenol      | 9.15 | 196 | 165567  | 41.250  | ng | 99     |

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 BNA\_F  
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 SB-04-9.5-11MSD

Manual Integrations  
 APPROVED

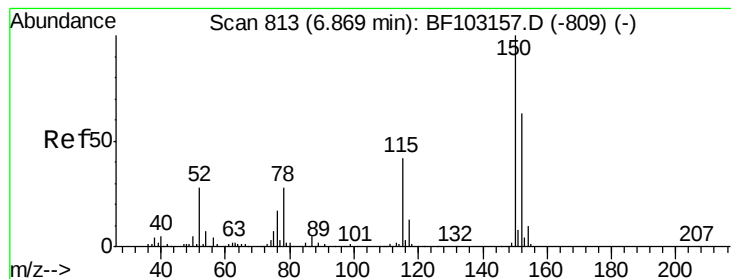
Sohil  
 3/8/2018 4:43:09 PM

Quant Time: Mar 08 04:26:44 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| -----                          |       |      |          |        |       |          |
| 43) 2,4,5-Trichlorophenol      | 9.20  | 196  | 173034   | 37.482 | nq    | # 92     |
| 45) 1,1'-Biphenyl              | 9.33  | 154  | 750251   | 41.033 | nq    | 98       |
| 46) 2-Chloronaphthalene        | 9.36  | 162  | 552908   | 38.224 | nq    | 99       |
| 47) 2-Nitroaniline             | 9.46  | 65   | 245695   | 45.854 | nq    | 86       |
| 48) Acenaphthylene             | 9.77  | 152  | 808474   | 36.326 | nq    | 99       |
| 49) Dimethylphthalate          | 9.62  | 163  | 746766   | 42.662 | nq    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.70  | 165  | 126702   | 34.492 | nq    | # 81     |
| 51) Acenaphthene               | 9.94  | 154  | 484618   | 37.342 | nq    | 98       |
| 52) 3-Nitroaniline             | 9.87  | 138  | 155676   | 33.404 | nq    | 97       |
| 53) 2,4-Dinitrophenol          | 10.02 | 184  | 1048     | 10.316 | nq    | # 1      |
| 54) Dibenzofuran               | 10.12 | 168  | 680147   | 38.178 | nq    | 96       |
| 55) 4-Nitrophenol              | 10.06 | 139  | 162598   | 56.293 | nq    | 91       |
| 56) 2,4-Dinitrotoluene         | 10.11 | 165  | 147209   | 31.687 | nq    | # 71     |
| 57) Fluorene                   | 10.46 | 166  | 555239   | 36.586 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 10.24 | 232  | 115624   | 37.284 | nq    | 94       |
| 59) Diethylphthalate           | 10.32 | 149  | 632404   | 37.775 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 10.45 | 204  | 249717   | 38.802 | nq    | 98       |
| 61) 4-Nitroaniline             | 10.49 | 138  | 165870   | 35.633 | nq    | 97       |
| 62) Azobenzene                 | 10.60 | 77   | 645054   | 37.853 | nq    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198  | 4344     | 6.990  | nq    | # 6      |
| 65) n-Nitrosodiphenylamine     | 10.57 | 169  | 506279   | 46.433 | nq    | 98       |
| 66) 4-Bromophenyl-phenylether  | 10.93 | 248  | 138714   | 42.523 | nq    | 98       |
| 67) Hexachlorobenzene          | 11.01 | 284  | 137964   | 38.966 | nq    | 99       |
| 68) Atrazine                   | 11.09 | 200  | 112159   | 34.224 | nq    | 97       |
| 69) Pentachlorophenol          | 11.21 | 266  | 97605    | 57.013 | nq    | 99       |
| 70) Phenanthrene               | 11.43 | 178  | 753723   | 43.736 | nq    | 99       |
| 71) Anthracene                 | 11.48 | 178  | 731666   | 41.403 | nq    | 99       |
| 72) Carbazole                  | 11.64 | 167  | 663936   | 37.727 | nq    | 99       |
| 73) Di-n-butylphthalate        | 11.94 | 149  | 919392   | 41.751 | nq    | 99       |
| 74) Fluoranthene               | 12.62 | 202  | 865571   | 49.981 | nq    | 98       |
| 76) Benzidine                  | 12.74 | 184  | 260832   | 36.040 | nq    | 97       |
| 77) Pyrene                     | 12.86 | 202  | 899162   | 59.574 | nq    | 100      |
| 79) Butylbenzylphthalate       | 13.45 | 149  | 344330   | 43.180 | nq    | 94       |
| 80) Benzo(a)anthracene         | 14.05 | 228  | 705276   | 56.150 | nq    | 99       |
| 81) 3,3'-Dichlorobenzidine     | 14.00 | 252  | 162563   | 36.265 | nq    | 100      |
| 82) Chrysene                   | 14.09 | 228  | 648755   | 53.194 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 14.00 | 149  | 448381   | 41.667 | nq    | # 99     |
| 84) Di-n-octyl phthalate       | 14.63 | 149  | 791582   | 45.529 | nq    | 97       |
| 85) Indeno(1,2,3-cd)pyrene     | 17.11 | 276  | 447498   | 46.348 | nq    | 98       |
| 87) Benzo(b)fluoranthene       | 15.12 | 252  | 671036   | 64.080 | nq    | 97       |
| 88) Benzo(k)fluoranthene       | 15.15 | 252  | 444759   | 45.103 | nq    | 99       |
| 89) Benzo(a)pyrene             | 15.50 | 252  | 539339   | 57.674 | nq    | 98       |
| 90) Dibenzo(a,h)anthracene     | 17.11 | 278  | 311249   | 43.074 | nq    | 99       |
| 91) Benzo(g,h,i)perylene       | 17.57 | 276  | 399020   | 56.500 | nq    | 97       |
| -----                          |       |      |          |        |       |          |

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





#1

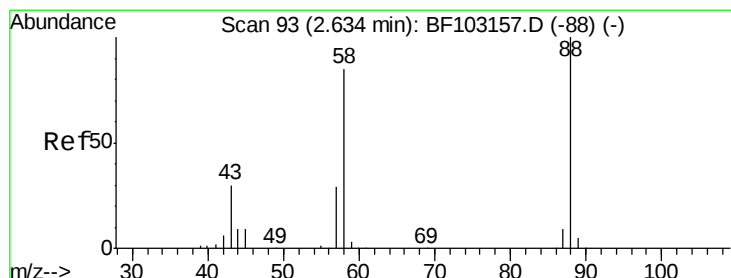
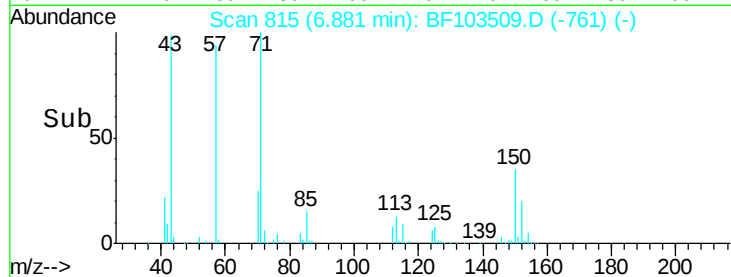
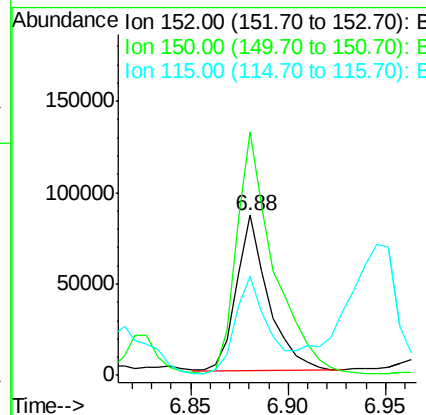
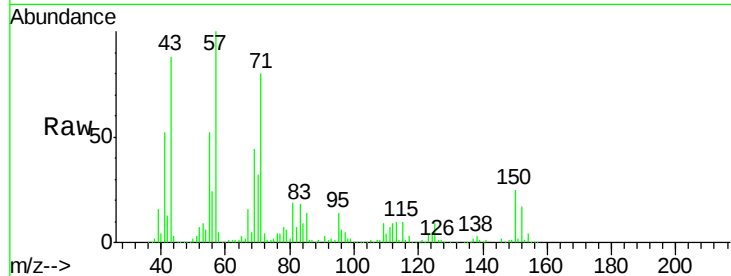
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.3 | 124.6 | 186.8 |
| 115     | 62.0  | 50.1  | 75.1  |

Manual Integrations  
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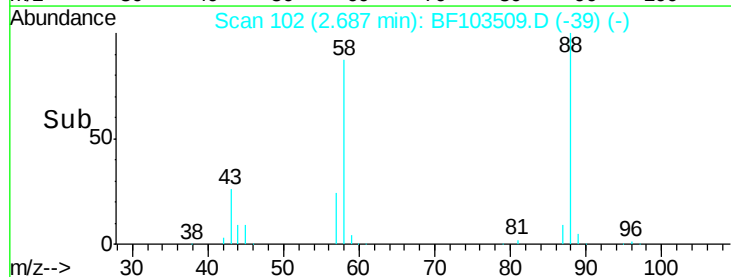
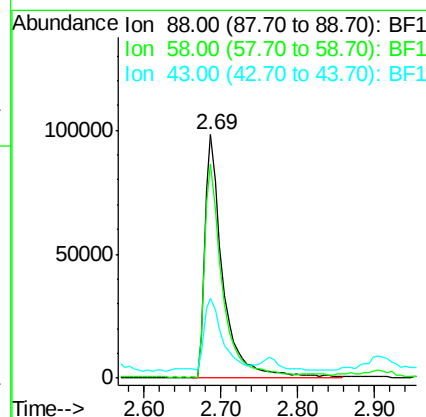
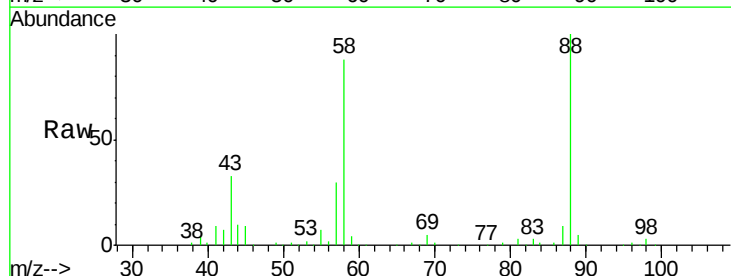
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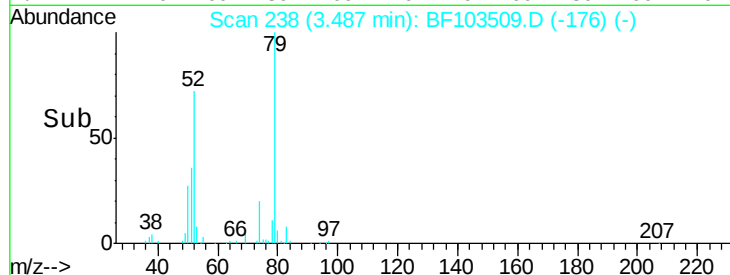
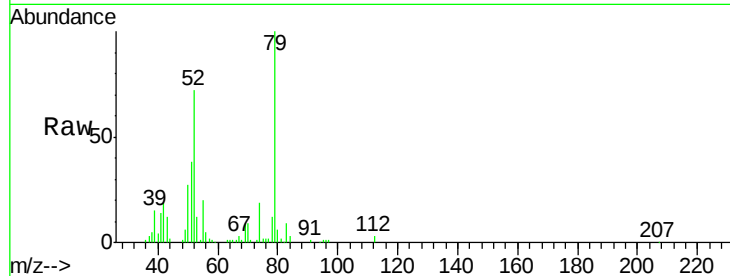


#2

1,4-Dioxane  
Concen: 48.031 ng  
RT: 2.69 min Scan# 102  
Delta R.T. 0.07 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 86.4  | 62.6  | 93.8  |
| 43      | 31.4  | 24.6  | 37.0  |





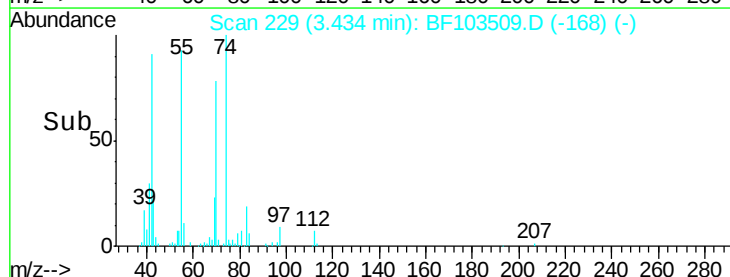
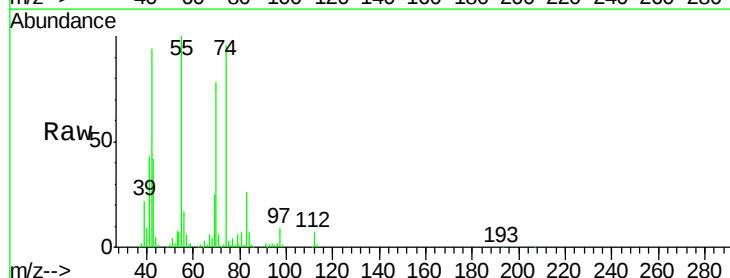
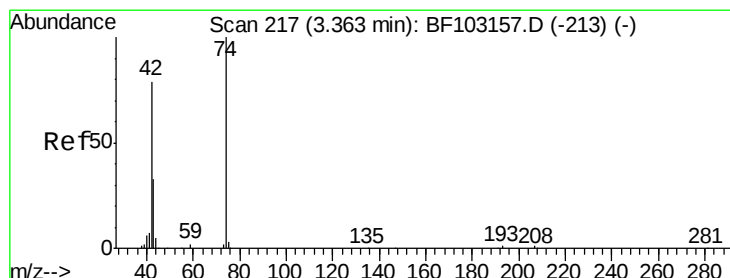
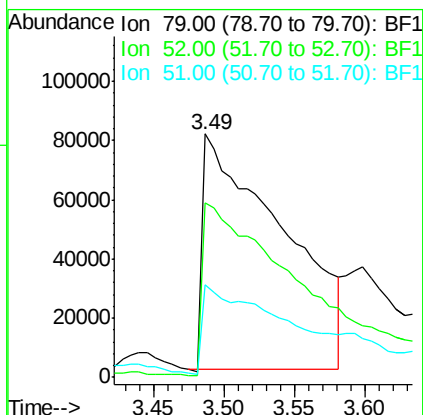
#3  
 Pvridine  
 Concen: 34.983 ng  
 RT: 3.49 min Scan# 238  
 Delta R.T. 0.06 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tot Ion   | 79   | Resp  | 312855 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 79        | 100  |       |        |
| 52        | 71.8 | 59.8  | 89.6   |
| 51        | 37.8 | 29.8  | 44.8   |

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

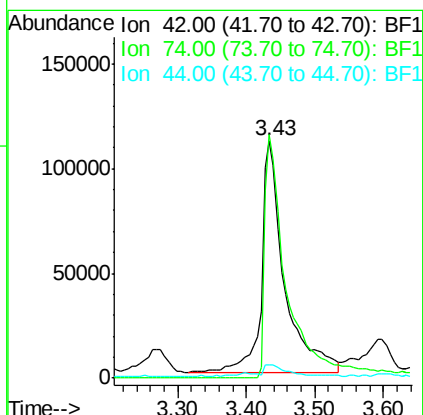
Manual Integrations  
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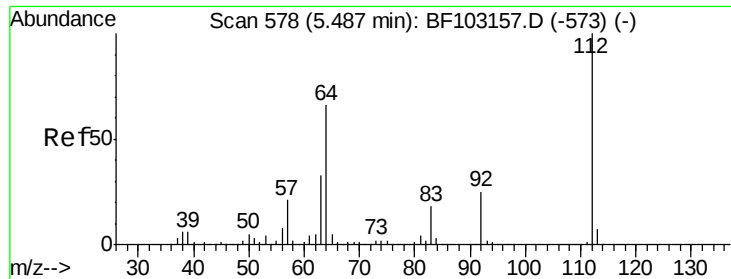
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#4  
 n-Nitrosodimethylamine  
 Concen: 71.620 ng  
 RT: 3.43 min Scan# 229  
 Delta R.T. 0.06 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion   | 42    | Resp  | 258320 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 42        | 100   |       |        |
| 74        | 102.5 | 104.9 | 157.3# |
| 44        | 5.6   | 6.9   | 10.3#  |





#5

2-Fluorophenol

Concen: 150.776 ng

RT: 5.50 min Scan# 581

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

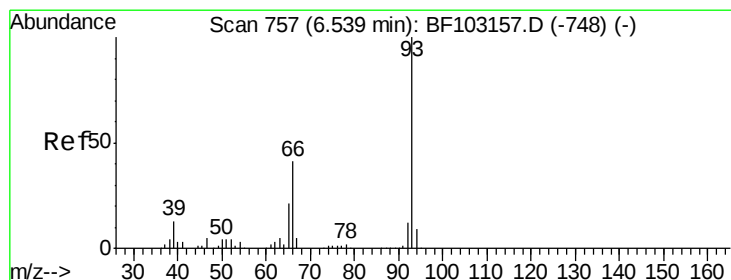
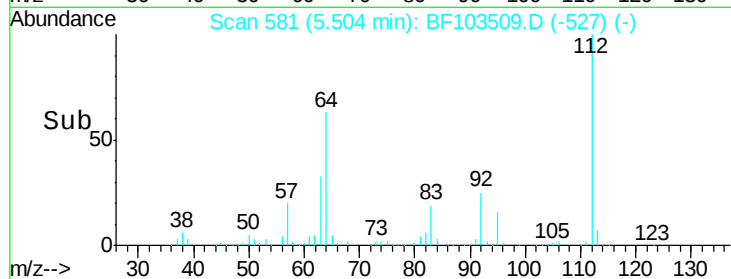
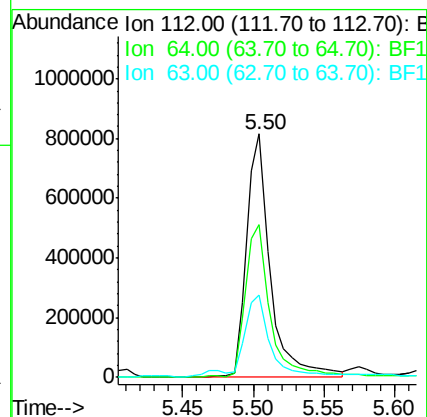
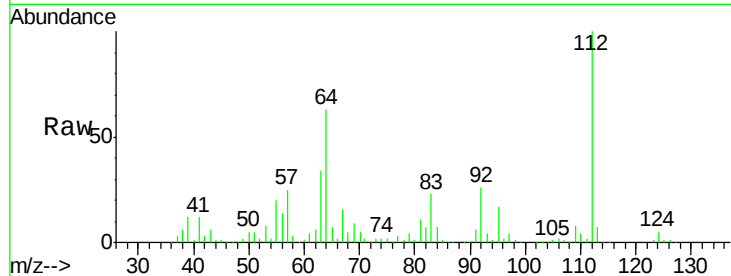
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 956297 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 62.9  | 47.9  | 71.9   |
| 63        | 34.0  | 23.7  | 35.5   |

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#6

Aniline

Concen: 29.198 ng

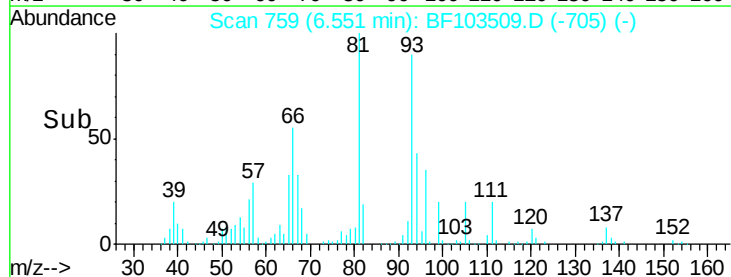
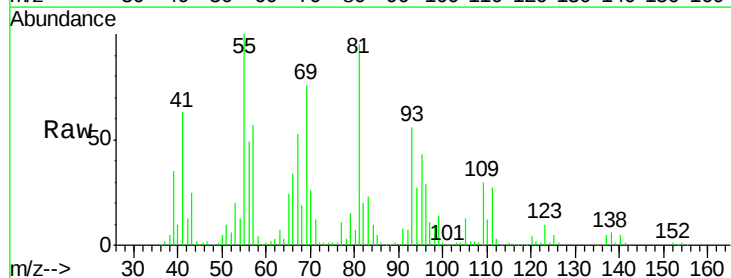
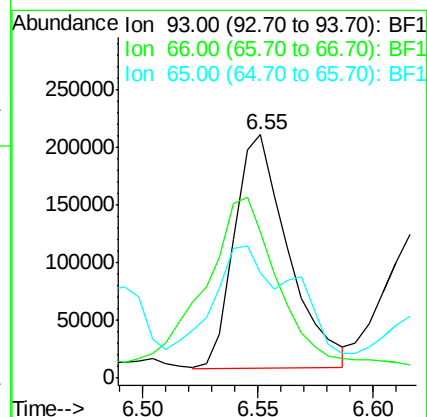
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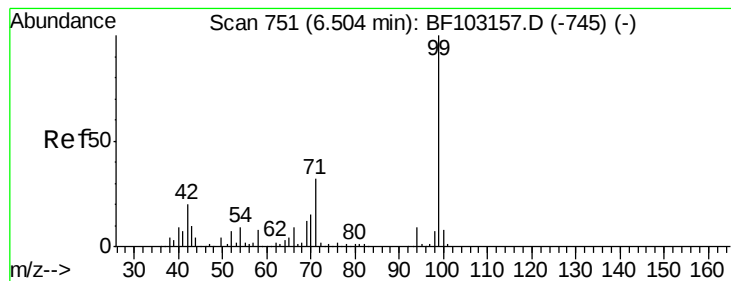
Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 327039 |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 66        | 60.3  | 32.2  | 48.2#  |
| 65        | 43.3  | 16.4  | 24.6#  |





#7

Phenol-d6

Concen: 145.892 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

ClientSampleId :

SB-04-9.5-11MSD

Tot Ion: 99 Resp: 1132269

Ion Ratio Lower Upper

99 100

42 22.5 14.5 21.7#

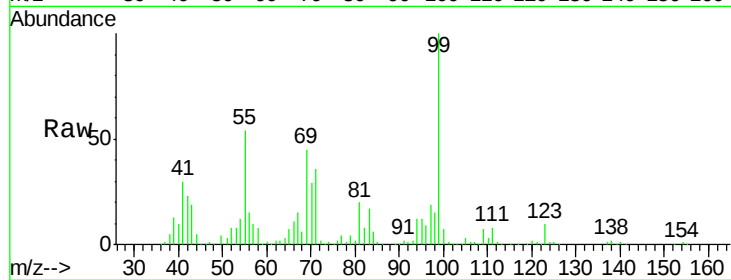
71 36.4 25.4 38.0

Manual Integrations

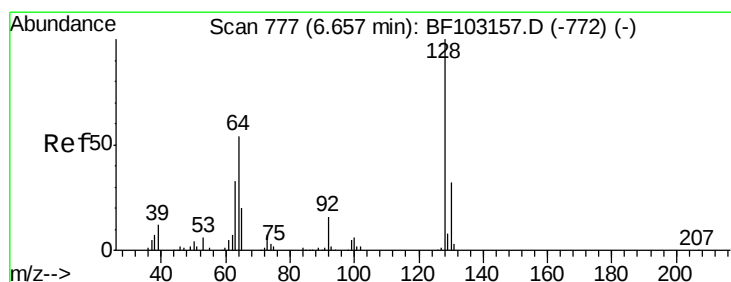
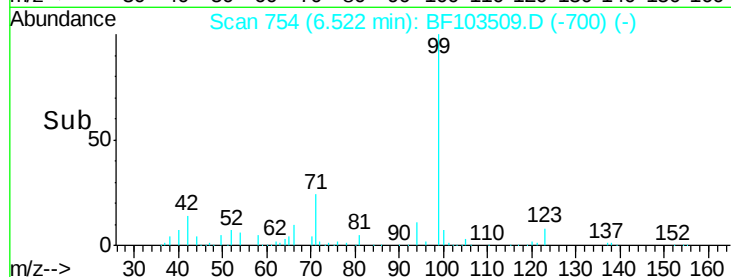
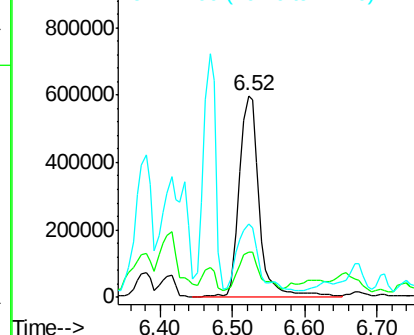
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 43.639 ng

RT: 6.67 min Scan# 780

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

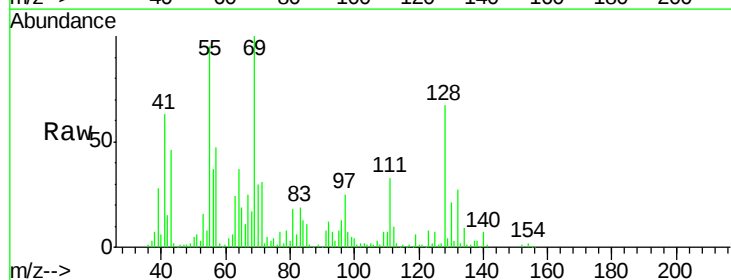
Tgt Ion:128 Resp: 287531

Ion Ratio Lower Upper

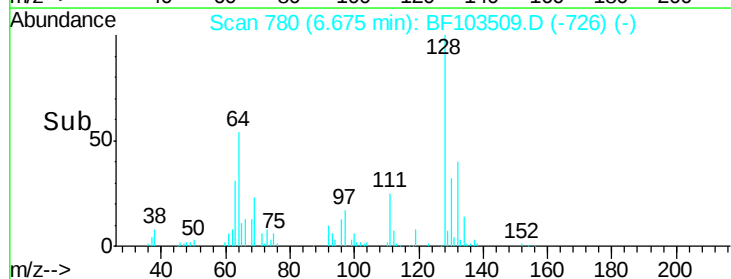
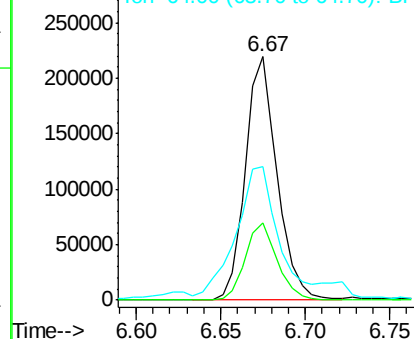
128 100

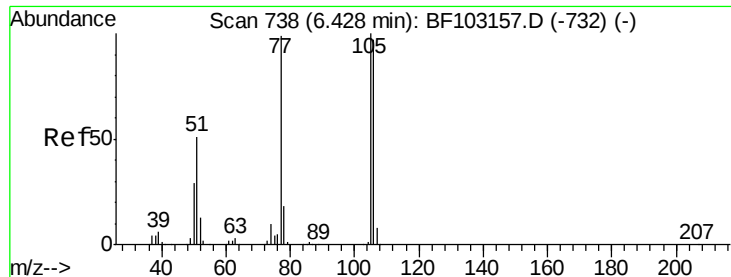
130 31.9 13.0 53.0

64 55.1 29.4 69.4



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 130.00 (129.70 to 130.70): E  
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 29.152 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

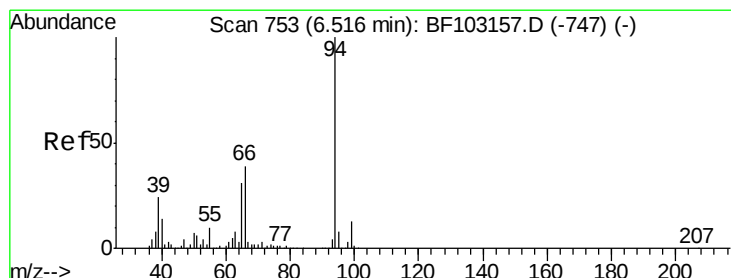
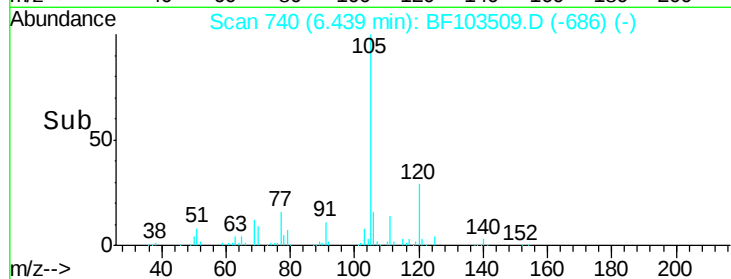
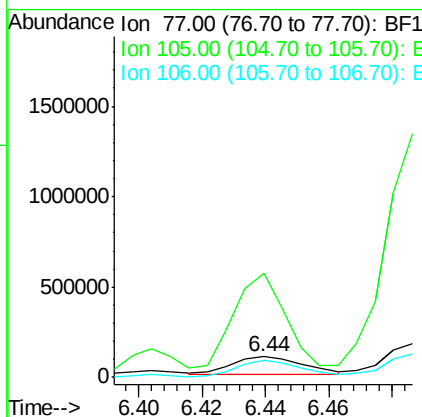
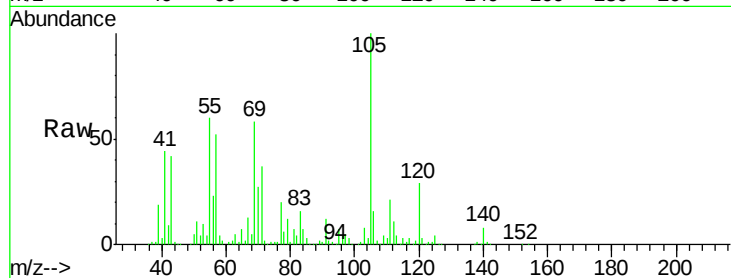
ClientSampled :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 77    | Resp: | 148709 |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 500.6 | 81.1  | 121.1# |
| 106       | 79.6  | 74.5  | 114.5  |

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#10

Phenol

Concen: 42.683 ng

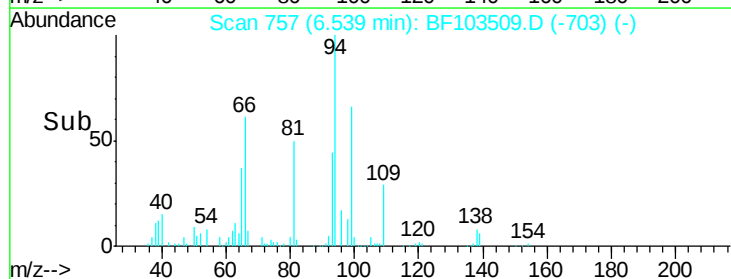
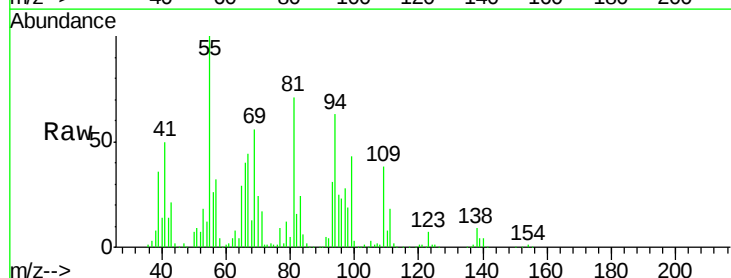
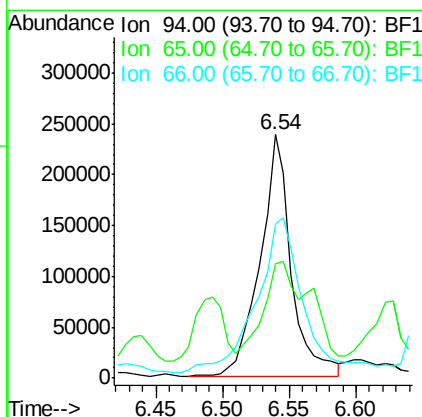
RT: 6.54 min Scan# 757

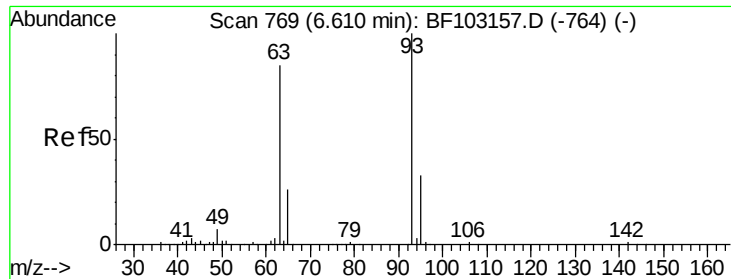
Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 94    | Resp: | 384564 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 46.8  | 7.9   | 47.9   |
| 66        | 63.2  | 16.2  | 56.2#  |





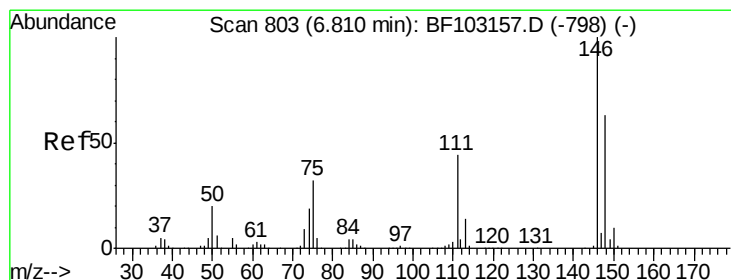
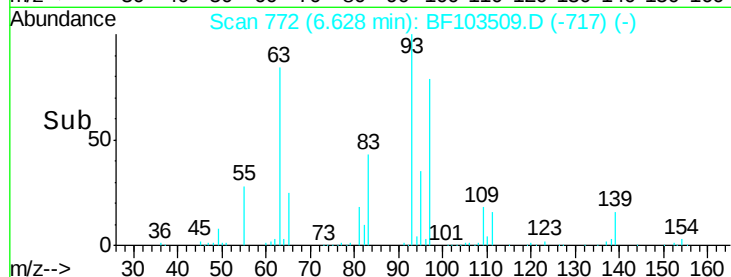
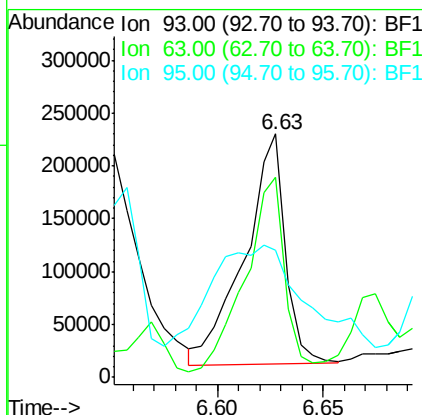
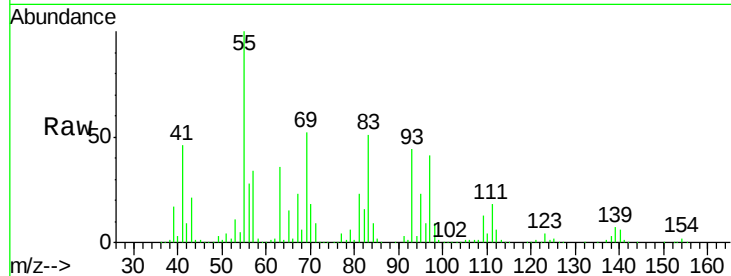
#11  
bis(2-Chloroethyl)ether  
Concen: 42.680 ng  
RT: 6.63 min Scan# 772  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 82.2  | 58.6  | 98.6  |
| 95      | 52.4  | 11.8  | 51.8# |

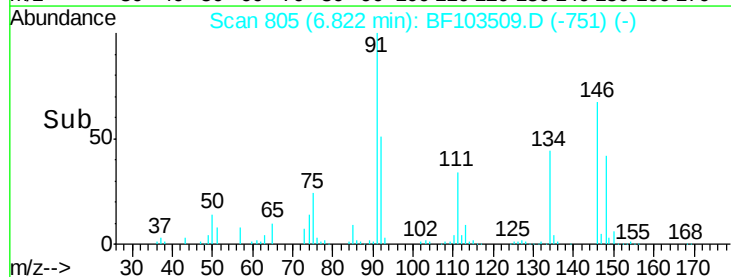
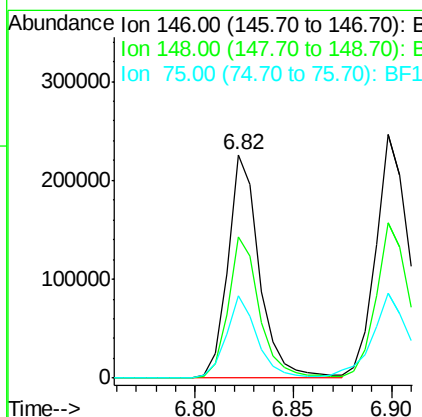
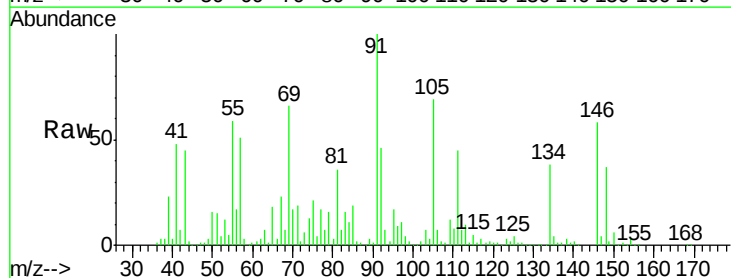
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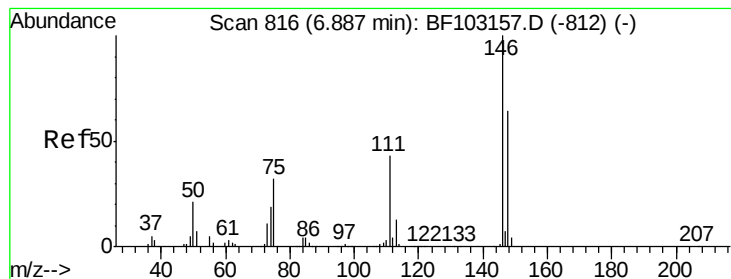
Sohil  
3/8/2018 4:43:09 PM



#12  
1,3-Dichlorobenzene  
Concen: 33.627 ng m  
RT: 6.82 min Scan# 805  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 63.0  | 51.8  | 77.8  |
| 75      | 36.6  | 24.2  | 36.4# |





#13

1,4-Dichlorobenzene

Concen: 40.403 ng

RT: 6.90 min Scan# 818

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

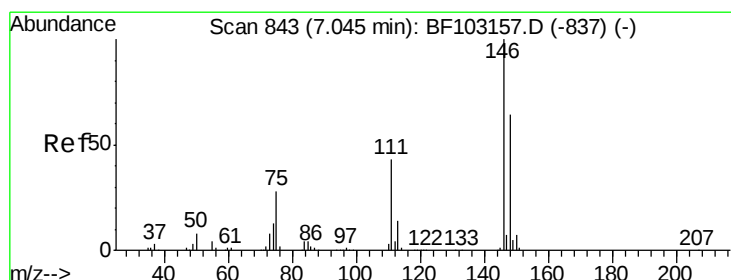
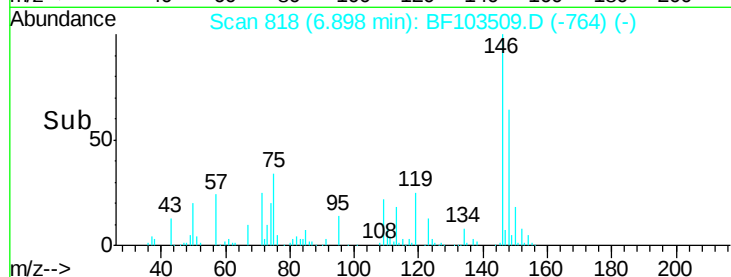
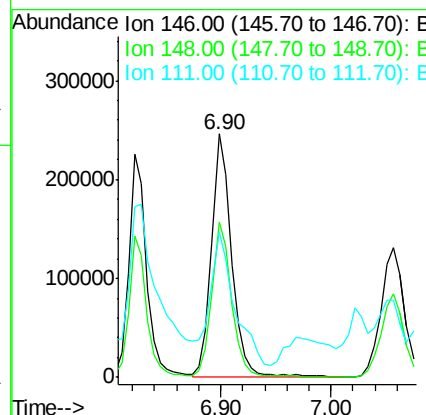
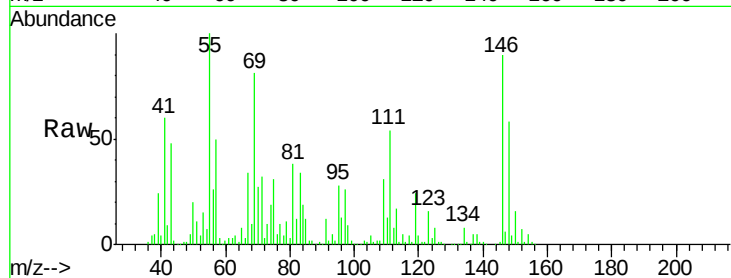
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 305003 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 63.6  | 50.8  | 76.2   |
| 111       | 59.4  | 34.2  | 51.2#  |

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#14

1,2-Dichlorobenzene

Concen: 27.325 ng

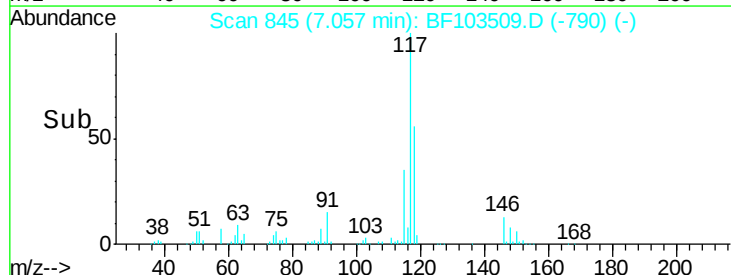
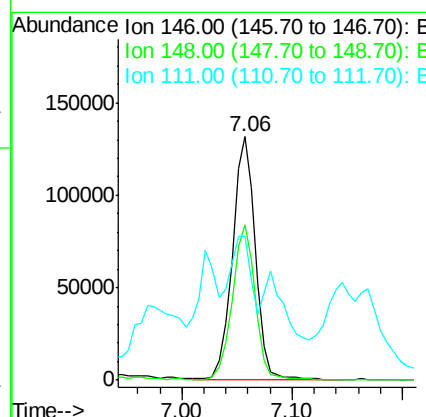
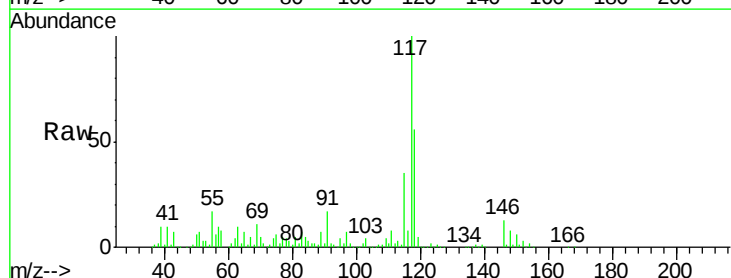
RT: 7.06 min Scan# 845

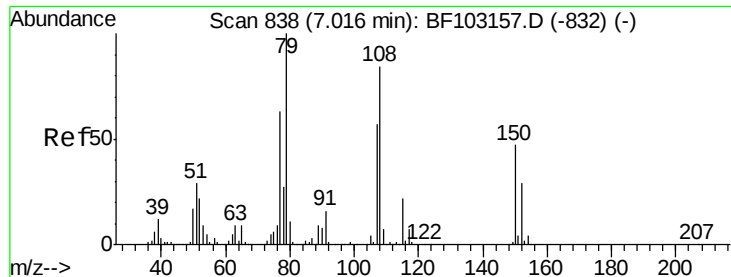
Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 190201 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 148       | 64.0  | 50.6  | 75.8   |
| 111       | 59.1  | 36.0  | 54.0#  |





#15

Benzyl Alcohol

Concen: 37.489 ng

RT: 7.03 min Scan# 840

Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

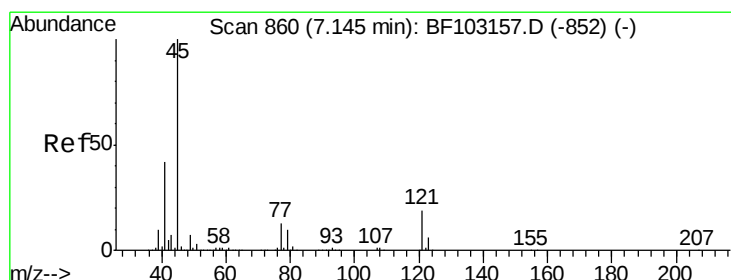
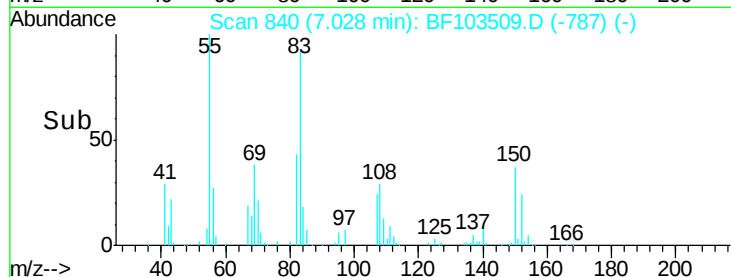
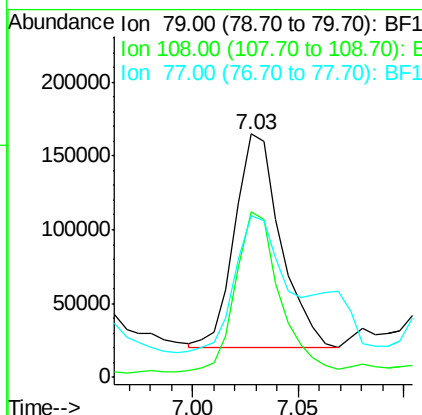
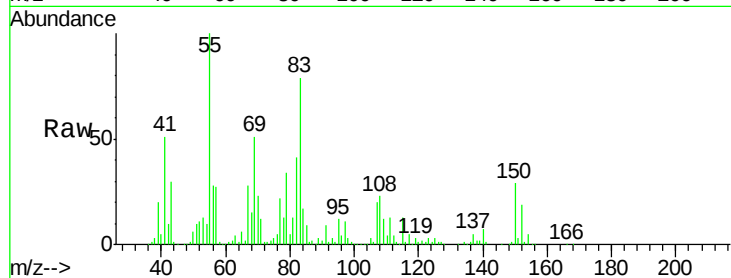
ClientSampled :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 79    | Resp: | 219249 |
| Ion Ratio | Lower | Upper |        |
| 79        | 100   |       |        |
| 108       | 68.0  | 65.1  | 97.7   |
| 77        | 66.2  | 50.6  | 75.8   |

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#16

2,2'-oxybis(1-Chloropropane)

Concen: 29.943 ng

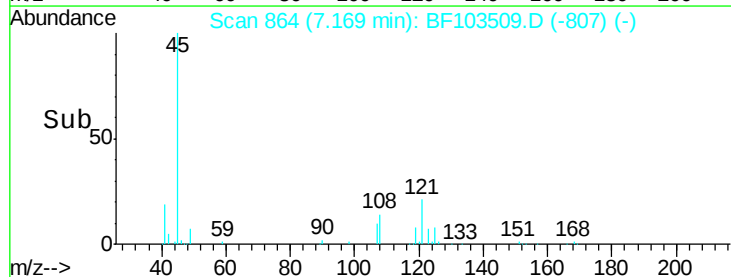
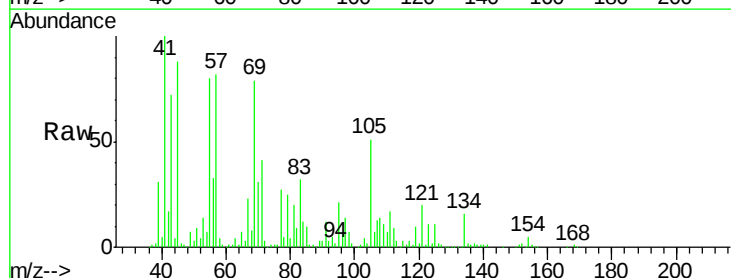
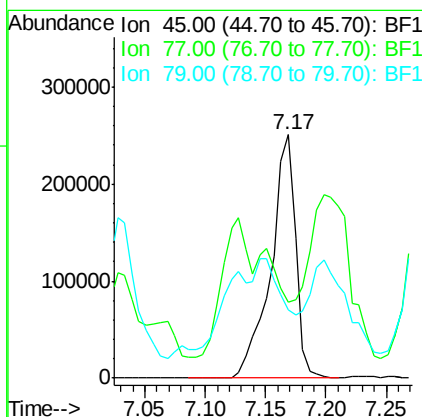
RT: 7.17 min Scan# 864

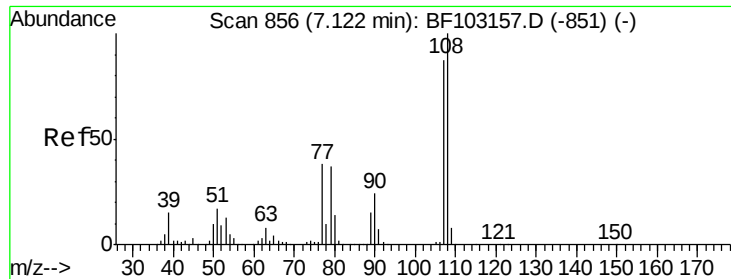
Delta R.T. 0.04 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 45    | Resp: | 351610 |
| Ion Ratio | Lower | Upper |        |
| 45        | 100   |       |        |
| 77        | 31.3  | 0.0   | 32.9   |
| 79        | 28.1  | 0.0   | 29.6   |





#17

2-Methylphenol

Concen: 34.339 ng

RT: 7.15 min Scan# 860

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

ClientSampleId :

SB-04-9.5-11MSD

Tot Ion:107 Resp: 205609  
Ion Ratio Lower Upper

107 100

108 105.9 91.7 137.5

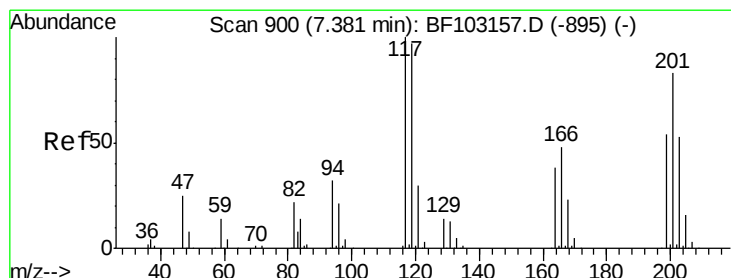
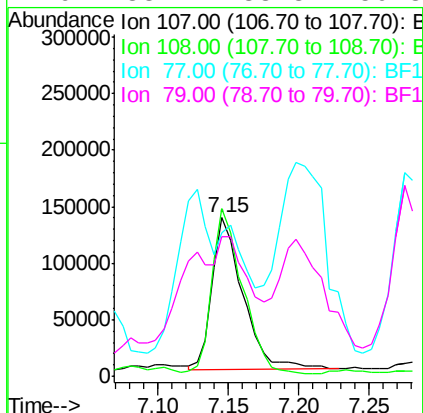
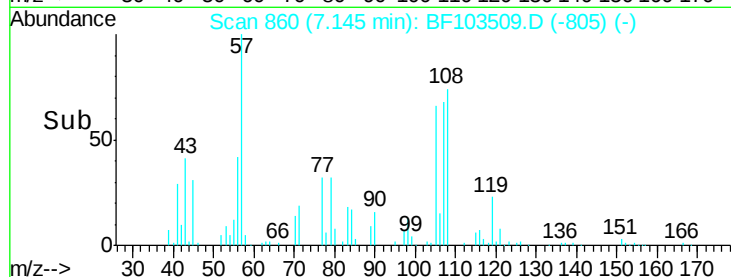
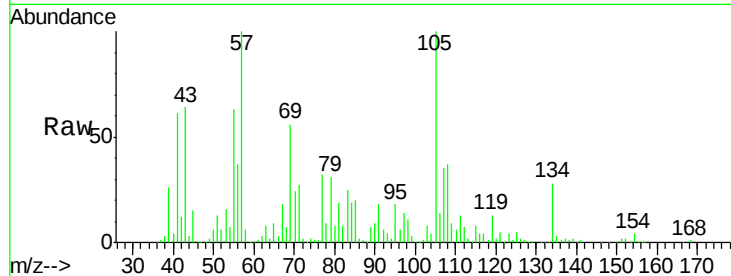
77 90.8 33.8 50.8#

79 88.2 33.8 50.8#

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#18

Hexachloroethane

Concen: 421.209 ng

RT: 7.42 min Scan# 906

Delta R.T. 0.05 min

Lab File: BF103509.D

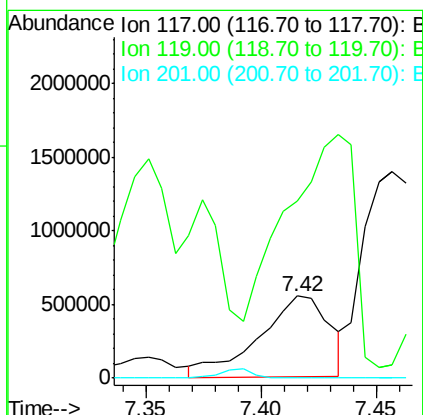
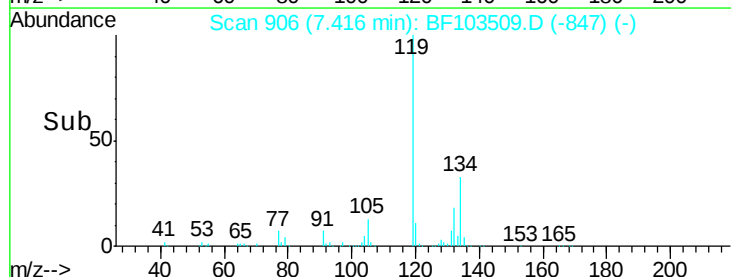
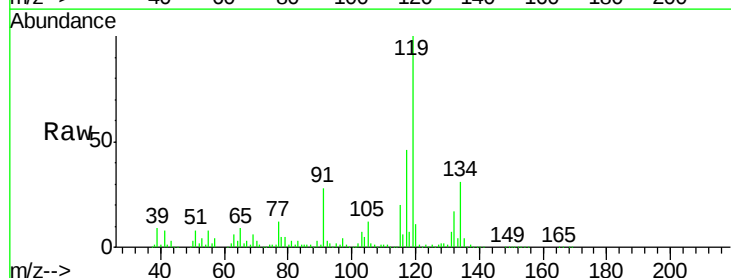
Acq: 7 Mar 2018 18:53

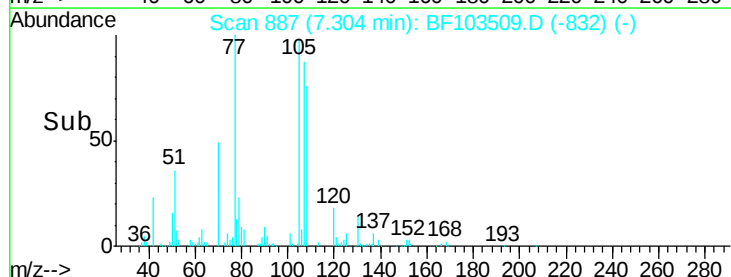
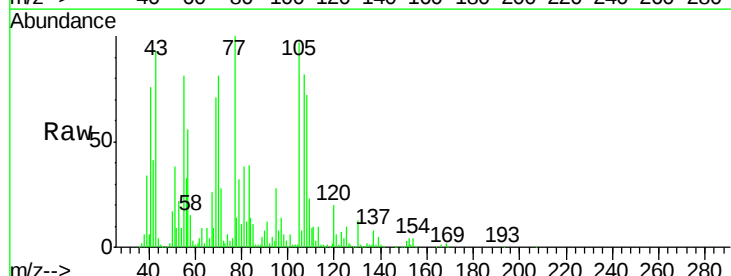
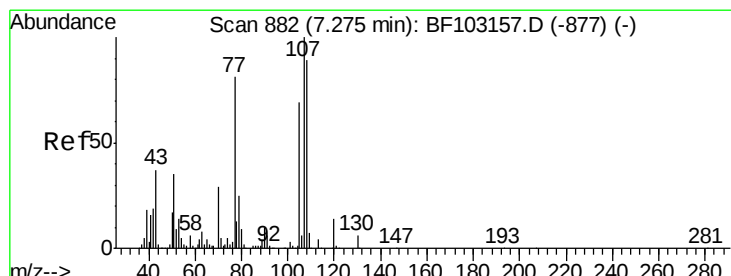
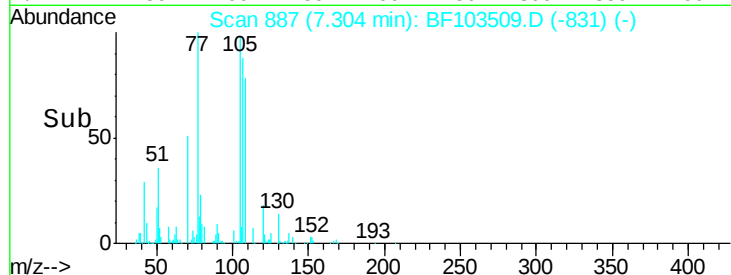
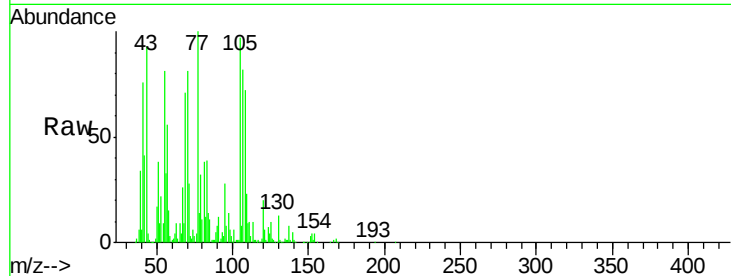
Tgt Ion:117 Resp: 1157538  
Ion Ratio Lower Upper

117 100

119 216.0 75.8 113.8#

201 0.0 75.7 113.5#





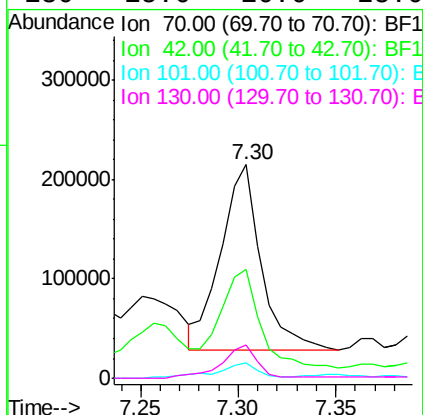
#19  
n-Nitroso-di-n-propylamine  
Concen: 55.237 ng  
RT: 7.30 min Scan# 887  
Delta R.T. 0.03 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 50.9  | 47.5  | 71.3  |
| 101     | 7.2   | 7.4   | 11.2# |
| 130     | 15.6  | 16.6  | 25.0# |

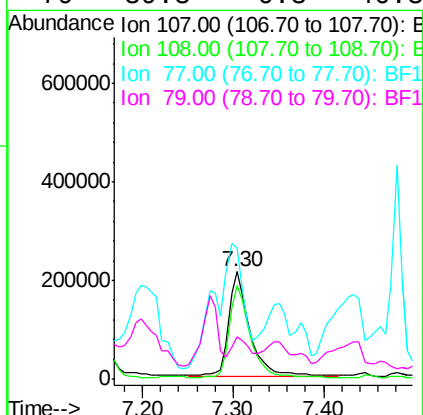
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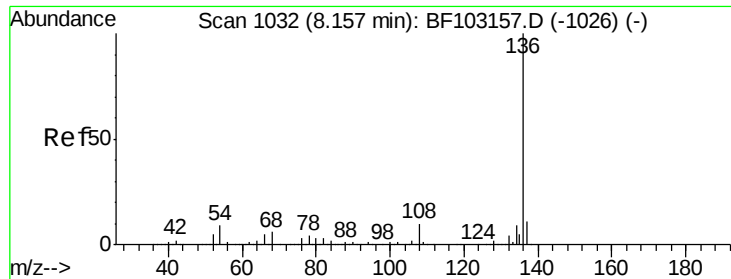
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#20  
3+4-Methylphenols  
Concen: 46.905 ng  
RT: 7.30 min Scan# 887  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 108     | 87.9  | 68.2  | 108.2 |
| 77      | 121.5 | 26.7  | 66.7# |
| 79      | 39.3  | 6.3   | 46.3  |





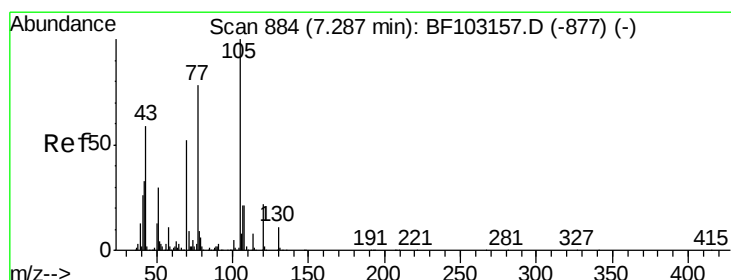
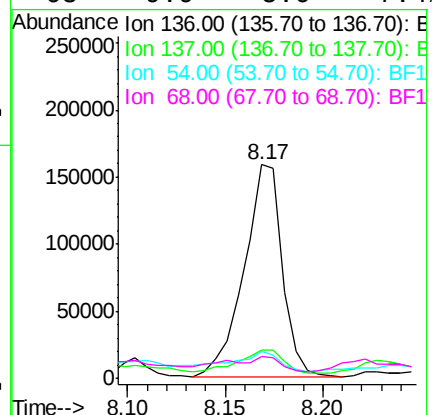
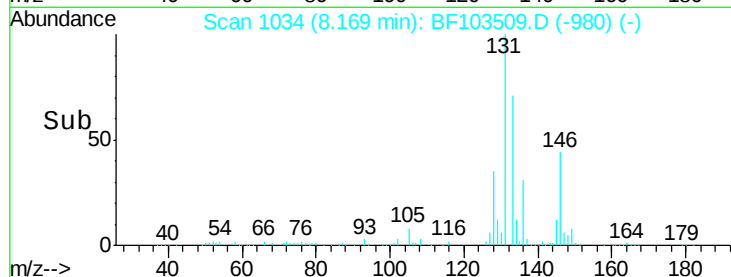
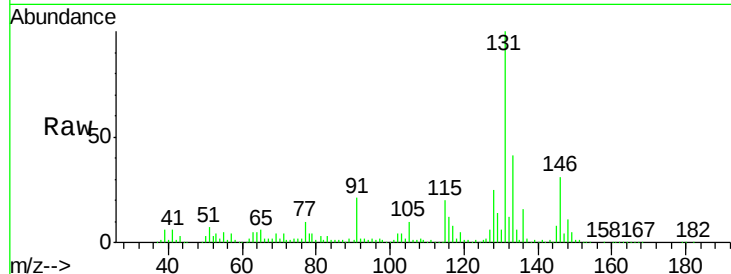
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 13.0  | 8.9  | 13.3  |       |
| 54      | 12.3  | 6.6  | 9.8#  |       |
| 68      | 9.9   | 5.0  | 7.4#  |       |

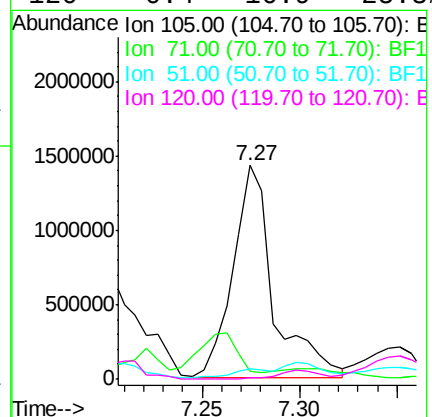
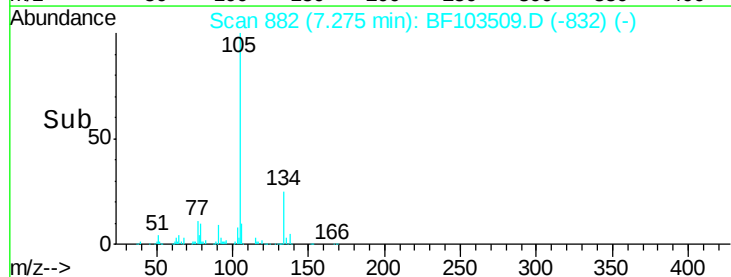
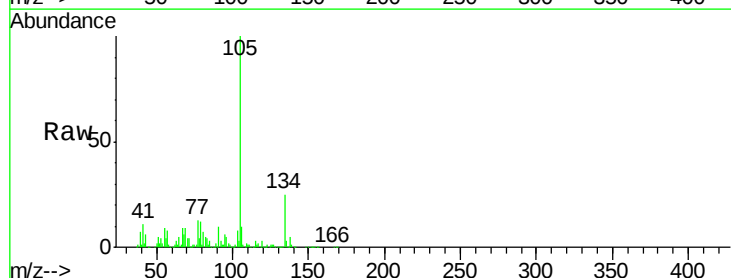
Manual Integrations  
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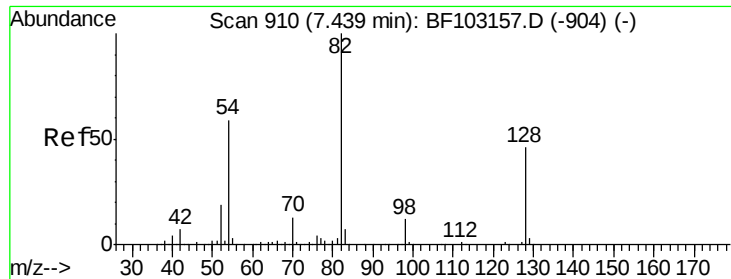
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#22  
Acetophenone  
Concen: 413.338 ng  
RT: 7.27 min Scan# 882  
Delta R.T. -0.01 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   |      |       |       |
| 71      | 3.5   | 4.4  | 6.6#  |       |
| 51      | 4.7   | 22.3 | 33.5# |       |
| 120     | 0.4   | 16.9 | 25.3# |       |





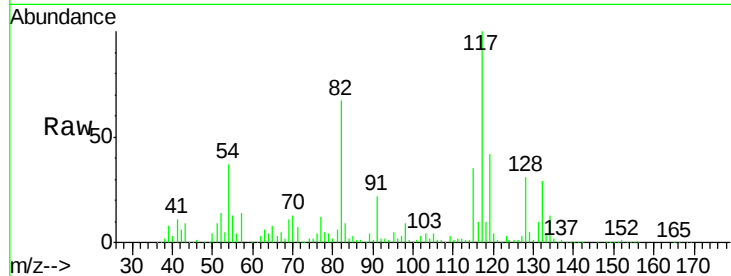
#23  
Nitrobenzene-d5  
Concen: 113.882 ng  
RT: 7.47 min Scan# 915  
Delta R.T. 0.03 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

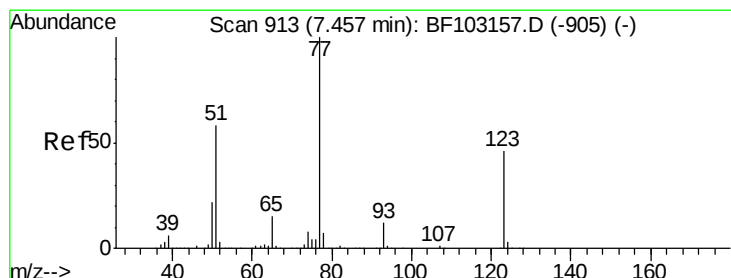
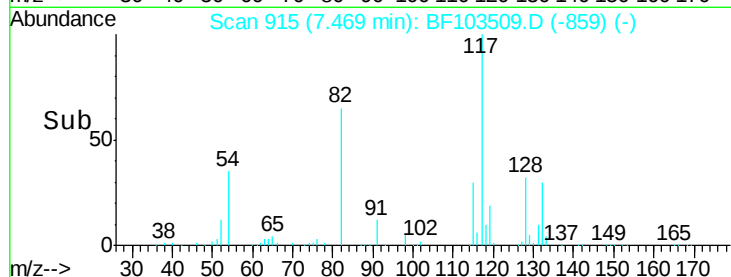
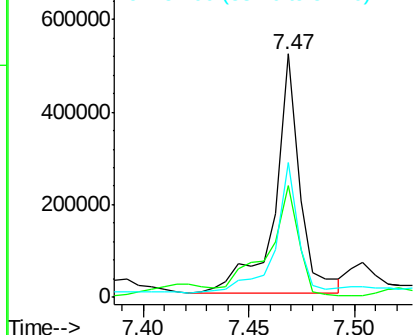
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.8  | 36.1  | 54.1  |
| 54      | 55.4  | 41.4  | 62.2  |

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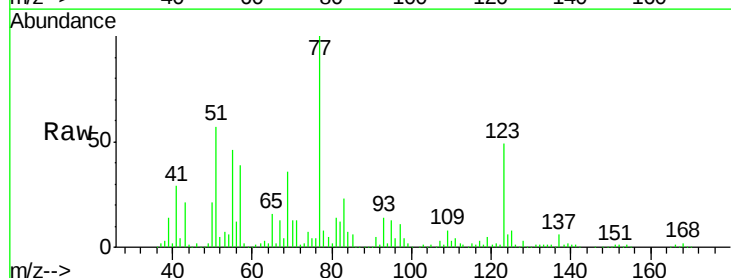


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

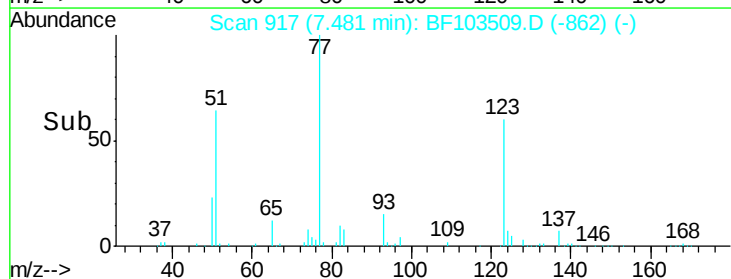
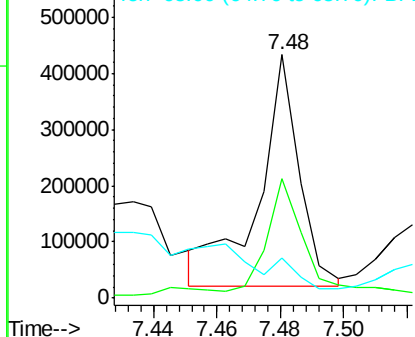


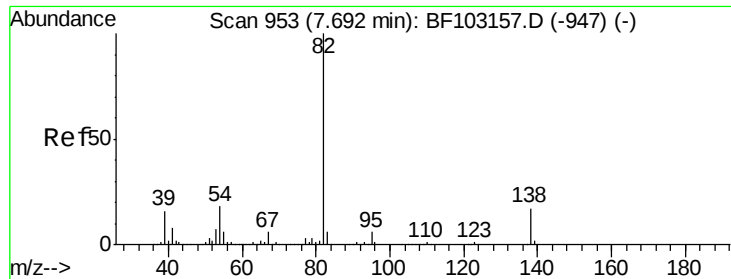
#24  
Nitrobenzene  
Concen: 88.895 ng  
RT: 7.48 min Scan# 917  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 48.8  | 37.9  | 56.9  |
| 65      | 16.3  | 11.0  | 16.4  |



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 123.00 (122.70 to 123.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 88.967 ng

RT: 7.70 min Scan# 955

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

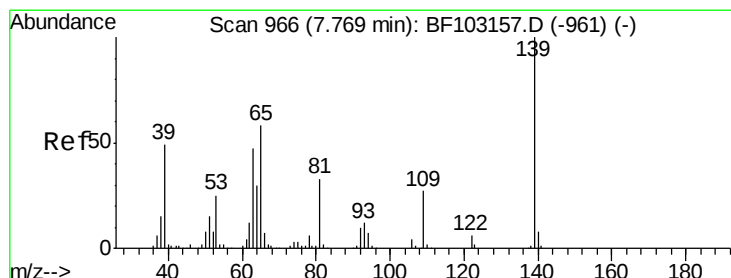
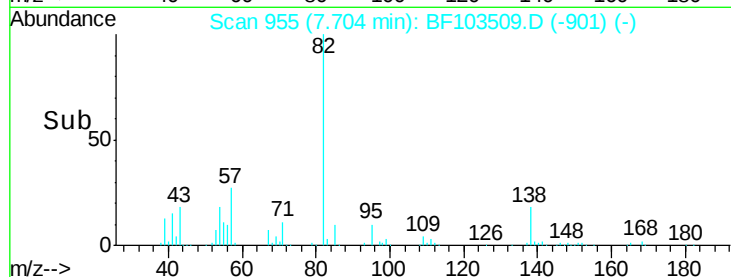
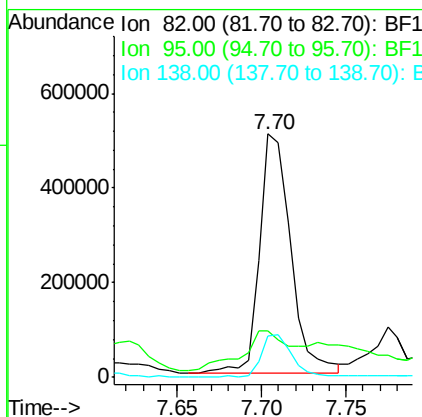
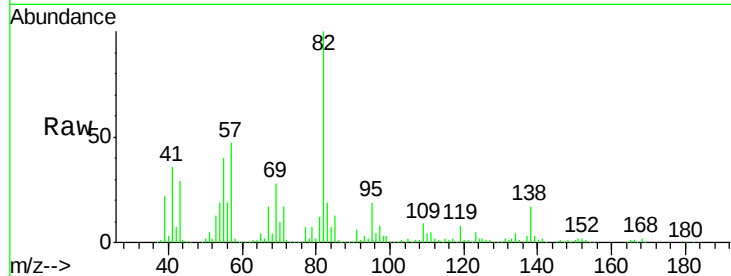
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 655912 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 19.0  | 5.2   | 7.8#   |
| 138       | 17.2  | 14.9  | 22.3   |

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#26

2-Nitrophenol

Concen: 57.283 ng

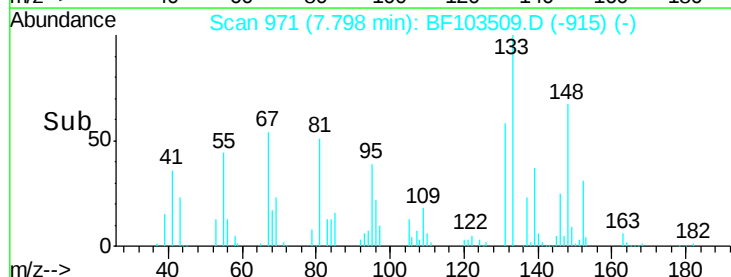
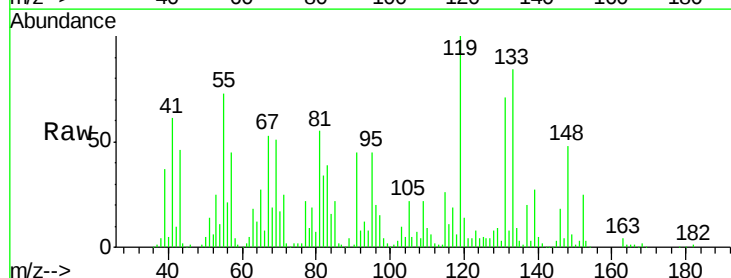
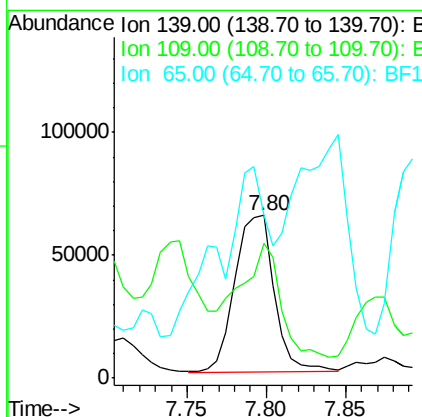
RT: 7.80 min Scan# 971

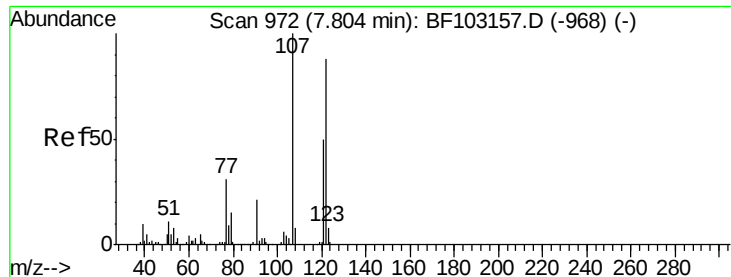
Delta R.T. 0.03 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 139   | Resp: | 111141 |
| Ion Ratio | Lower | Upper |        |
| 139       | 100   |       |        |
| 109       | 82.8  | 22.7  | 34.1#  |
| 65        | 100.0 | 40.5  | 60.7#  |





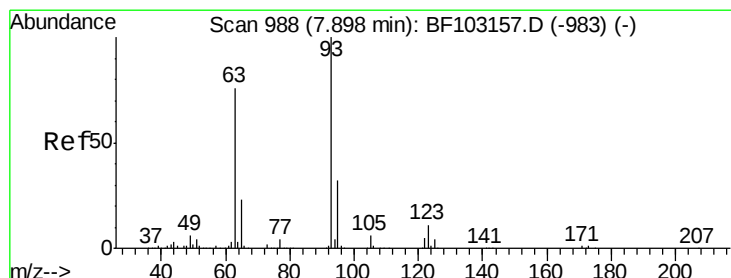
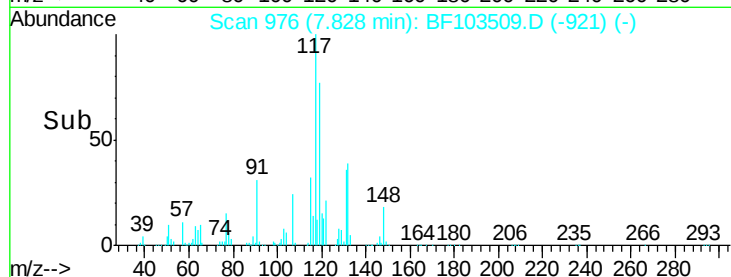
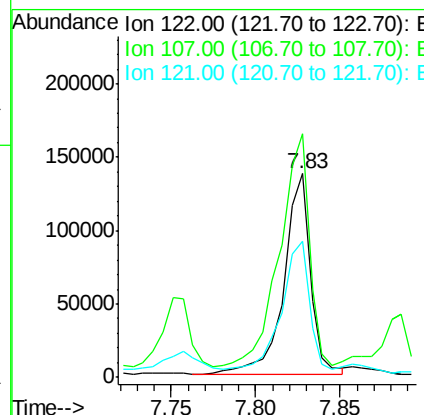
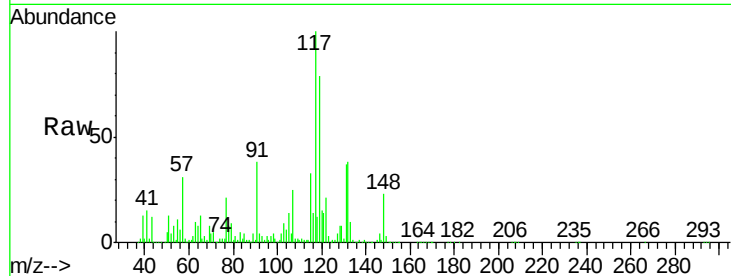
#27  
2,4-Dimethylphenol  
Concen: 50.404 ng  
RT: 7.83 min Scan# 976  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 119.5 | 91.2  | 136.8 |
| 121     | 66.9  | 47.2  | 70.8  |

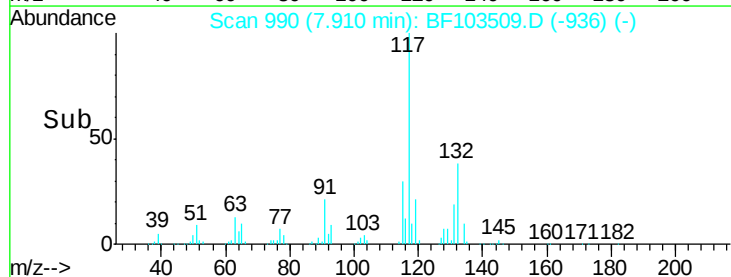
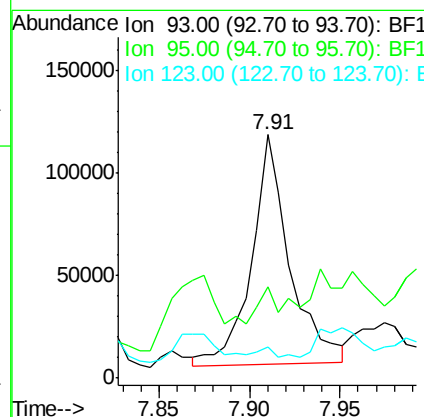
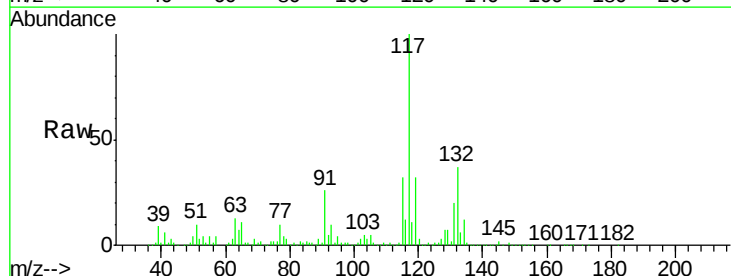
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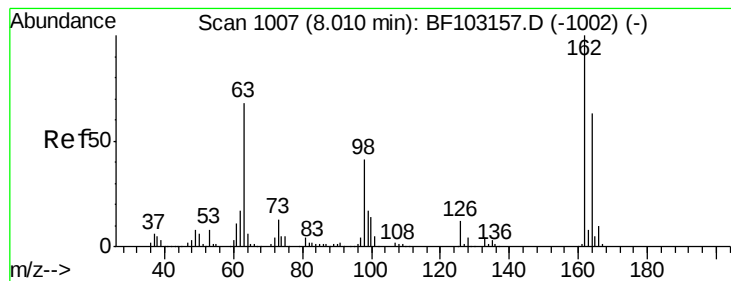
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#28  
bis(2-Chloroethoxy)methane  
Concen: 37.611 ng  
RT: 7.91 min Scan# 990  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 37.3  | 26.3  | 39.5  |
| 123     | 12.8  | 9.8   | 14.6  |





#29

2,4-Dichlorophenol

Concen: 87.571 ng

RT: 8.04 min Scan# 1012

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

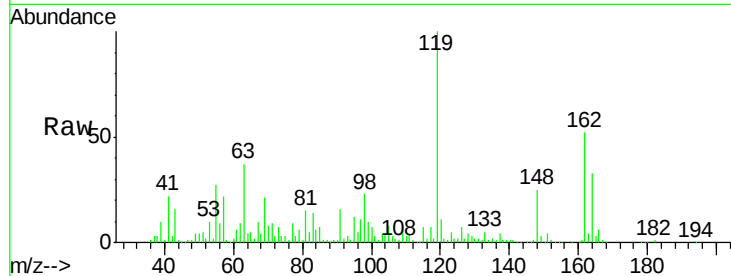
ClientSampleId :

SB-04-9.5-11MSD

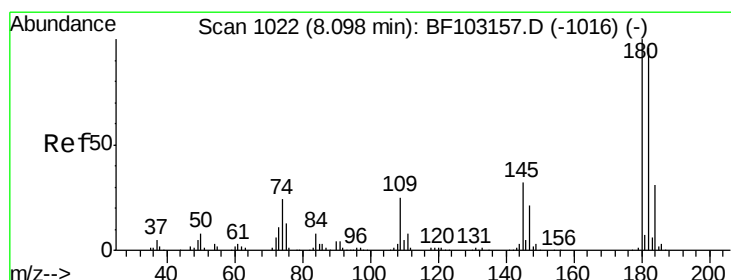
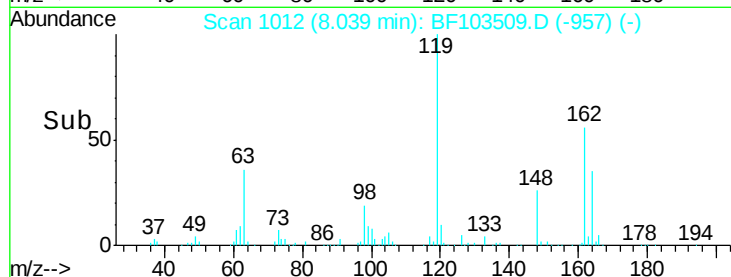
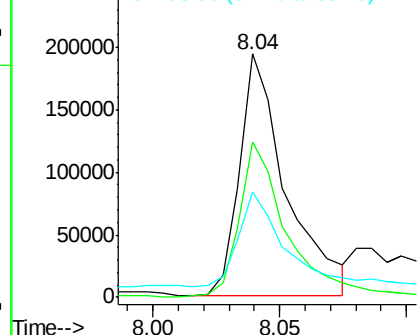
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 162   | Resp: | 248645 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 164       | 63.8  | 42.7  | 82.7   |
| 98        | 43.4  | 18.1  | 58.1   |

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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): BF1



#30

1,2,4-Trichlorobenzene

Concen: 68.323 ng

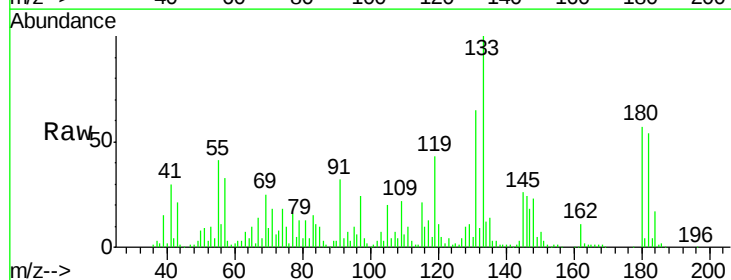
RT: 8.11 min Scan# 1024

Delta R.T. 0.02 min

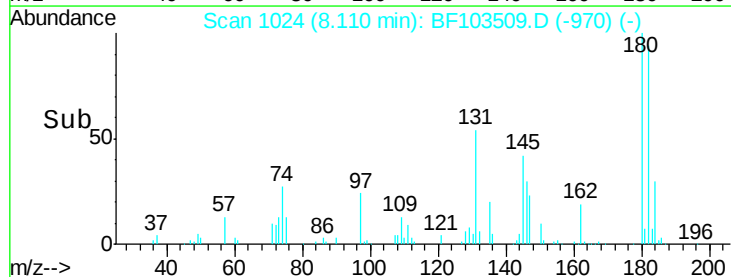
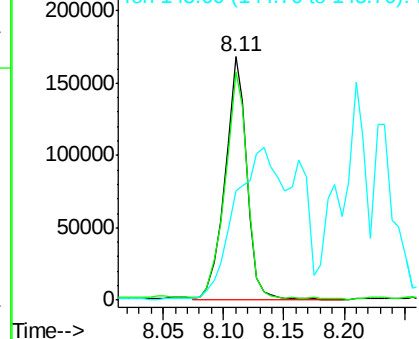
Lab File: BF103509.D

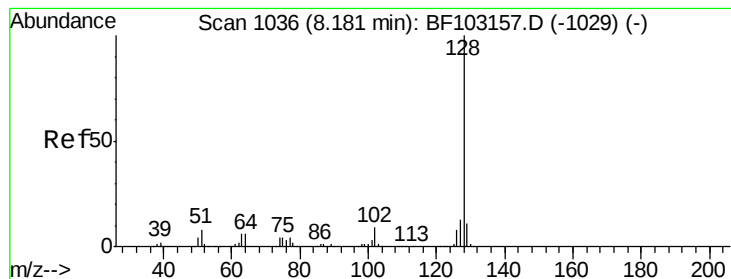
Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 206583 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 93.9  | 76.8  | 115.2  |
| 145       | 44.7  | 26.5  | 39.7#  |



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: 285.158 ng

RT: 8.20 min Scan# 1039

Delta R.T. 0.02 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

ClientSampleId :

SB-04-9.5-11MSD

Tot Ion:128 Resp: 2984470

Ion Ratio Lower Upper

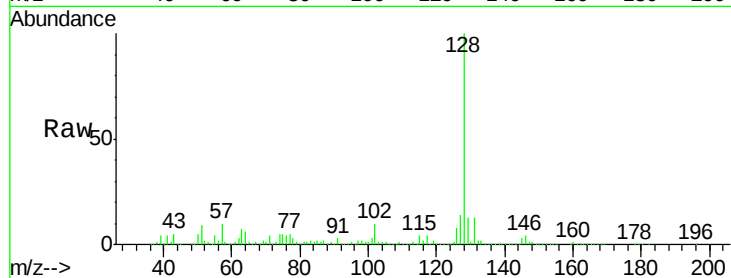
128 100

129 13.2 8.8 13.2

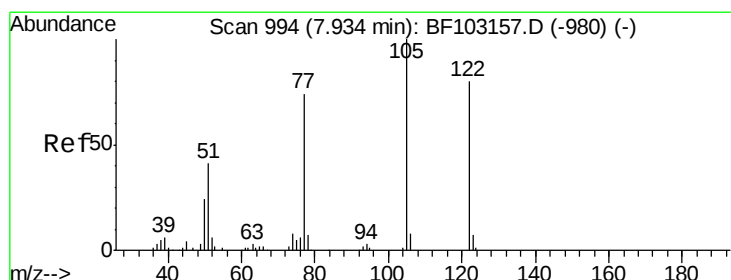
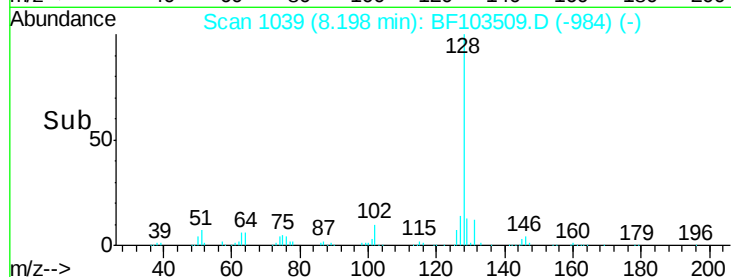
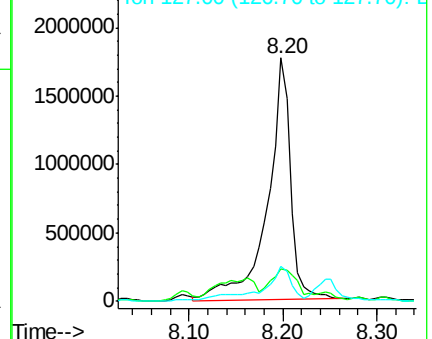
127 14.3 10.9 16.3

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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: 16.830 ng

RT: 7.95 min Scan# 996

Delta R.T. -0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

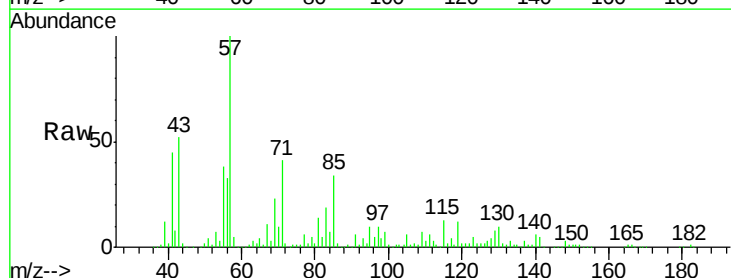
Tgt Ion:122 Resp: 25488

Ion Ratio Lower Upper

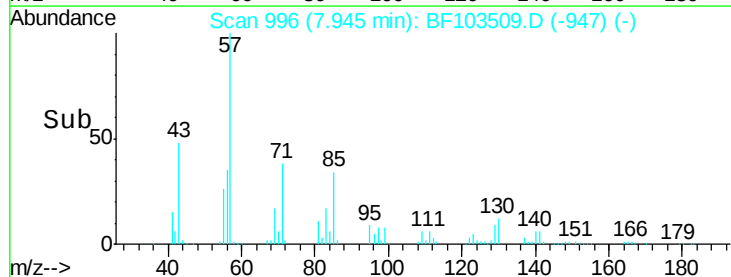
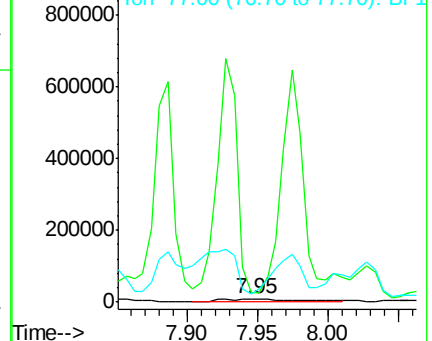
122 100

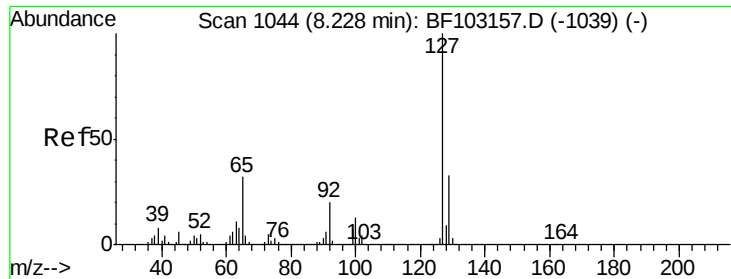
105 250.6 101.1 141.1#

77 244.8 70.7 110.7#



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): BF1





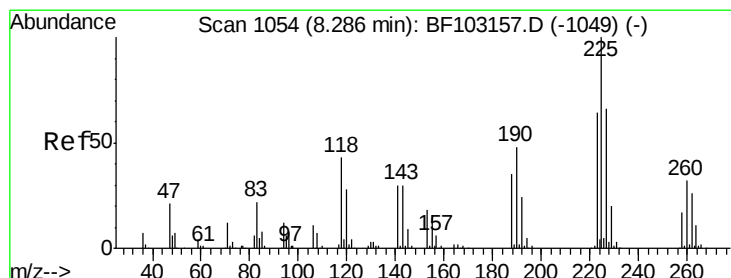
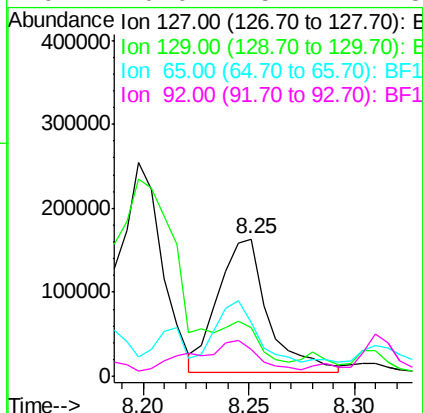
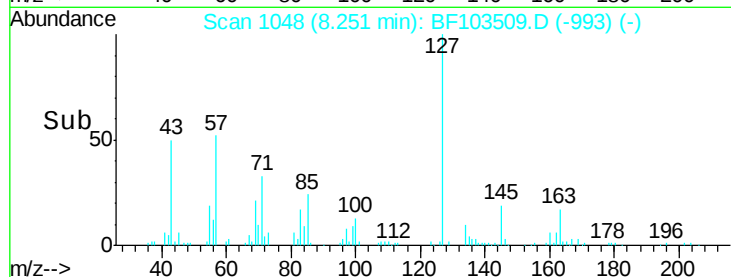
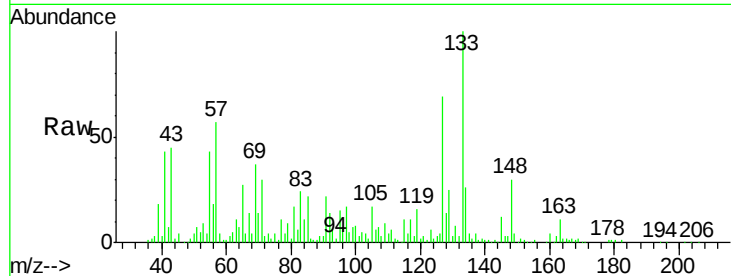
#33  
4-Chloroaniline  
Concen: 58.255 ng  
RT: 8.25 min Scan# 1048  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 127     | 100  |       | 263097 |       |       |
| 129     | 35.8 | 25.9  | 38.9   |       |       |
| 65      | 39.1 | 25.0  | 37.4   |       |       |
| 92      | 20.0 | 15.2  | 22.8   |       |       |

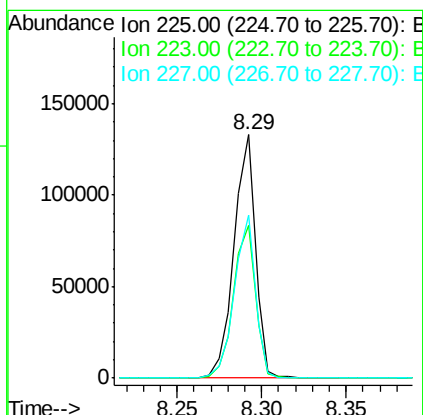
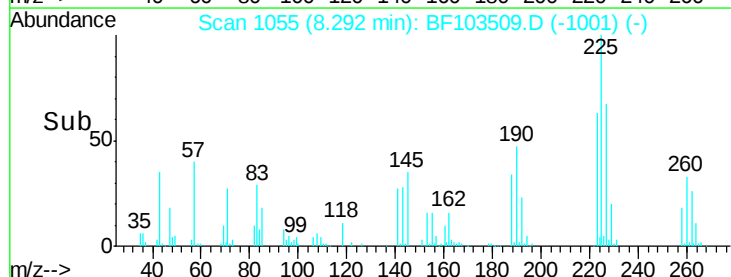
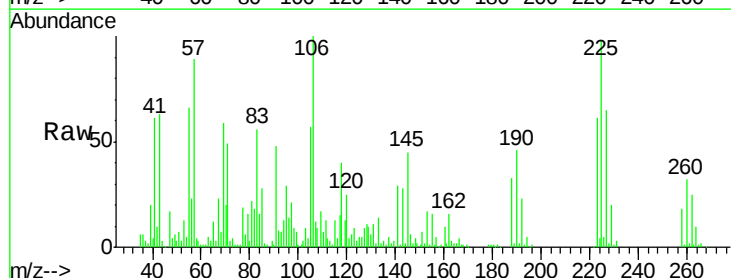
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#34  
Hexachlorobutadiene  
Concen: 74.778 ng  
RT: 8.29 min Scan# 1055  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 225     | 100  |       | 117739 |       |       |
| 223     | 62.7 | 50.6  | 76.0   |       |       |
| 227     | 66.7 | 51.9  | 77.9   |       |       |





#35

Caprolactam

Concen: 77.825 ng

RT: 8.60 min Scan# 1108

Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

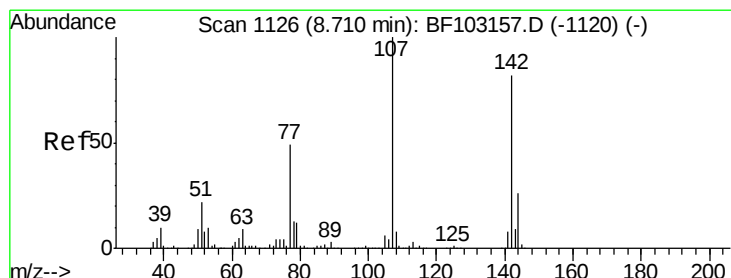
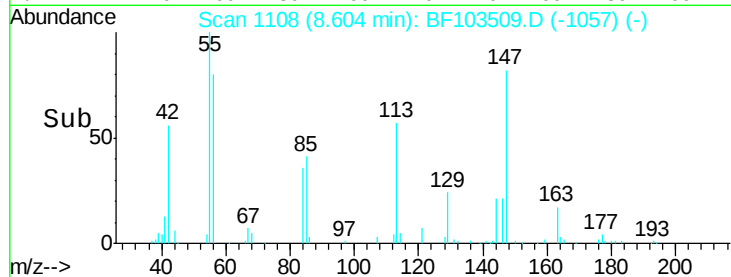
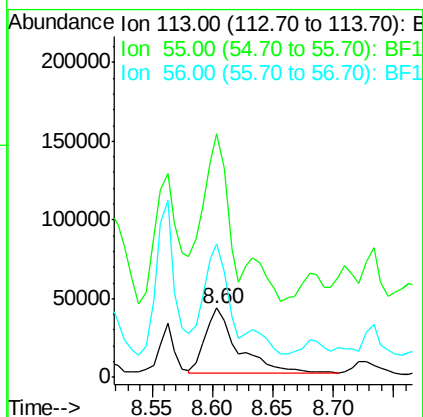
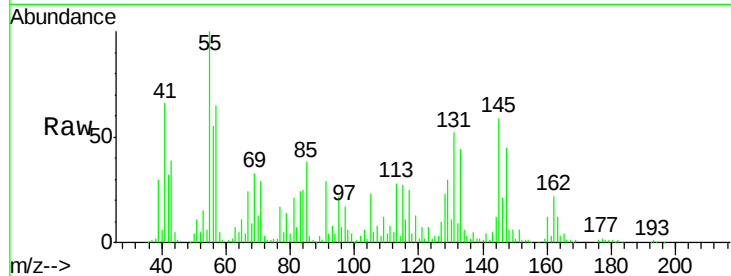
ClientSampleId :

SB-04-9.5-11MSD

| Tot Ion | Ion   | Ratio | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 113     | 100   |       |        |       |
| 55      | 351.0 | 163.3 | 203.3# |       |
| 56      | 192.6 | 115.7 | 155.7# |       |

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#36

4-Chloro-3-methylphenol

Concen: 89.628 ng

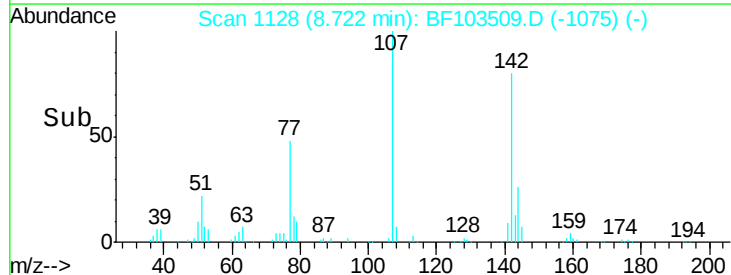
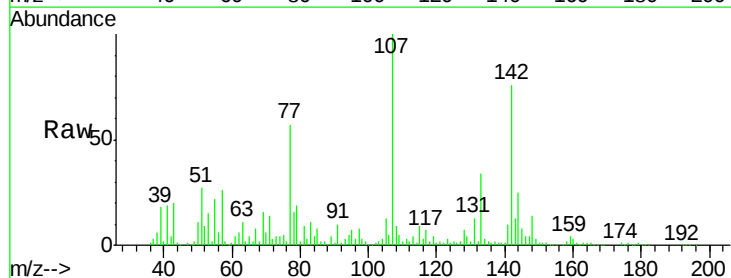
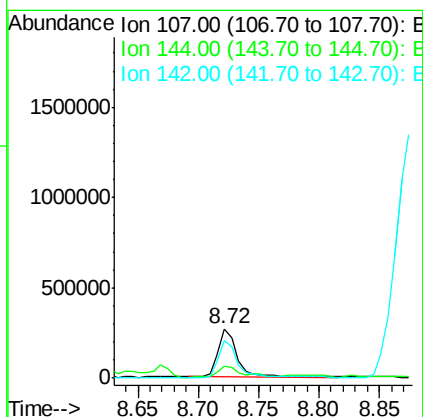
RT: 8.72 min Scan# 1128

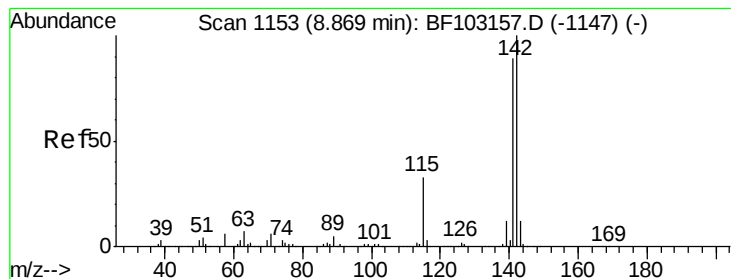
Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 107     | 100  |       |       |       |
| 144     | 25.0 | 20.5  | 30.7  |       |
| 142     | 76.3 | 62.0  | 93.0  |       |





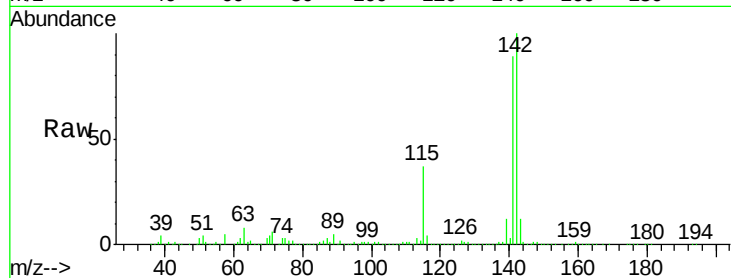
#37  
2-Methylnaphthalene  
Concen: 363.290 ng  
RT: 8.88 min Scan# 1155  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

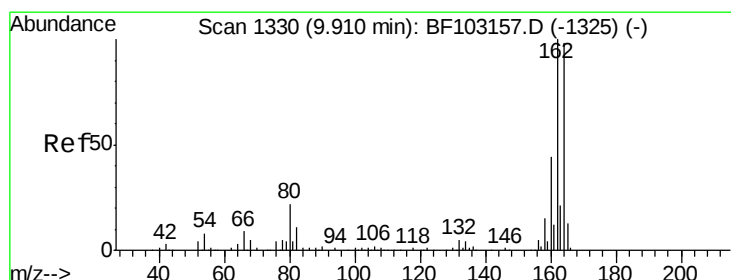
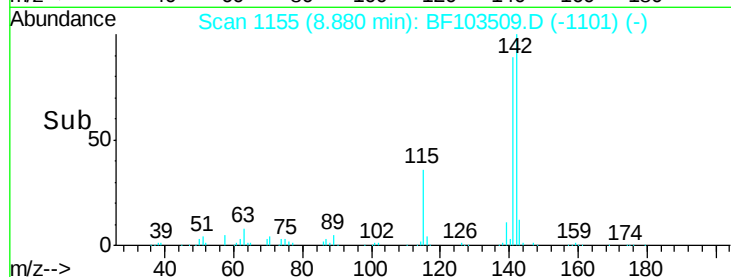
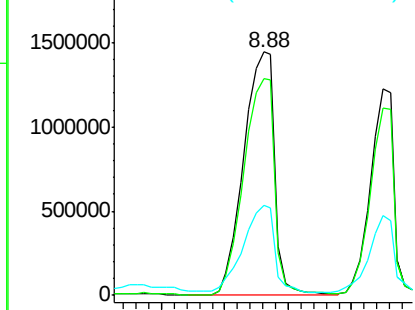
Tot Ion:142 Resp: 2457285  
Ion Ratio Lower Upper  
142 100  
141 89.1 70.8 106.2  
115 37.0 26.1 39.1

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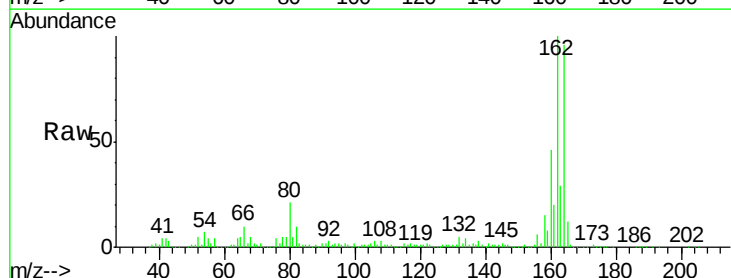


Abundance Ion 142.00 (141.70 to 142.70): E  
2000000  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

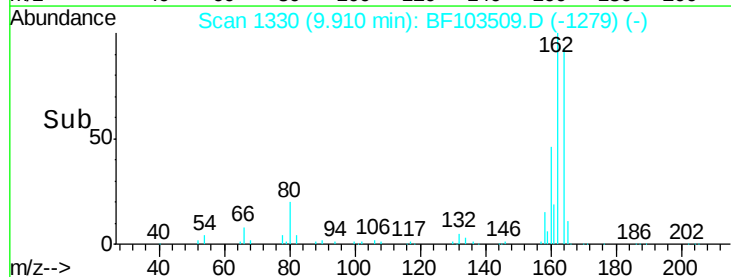
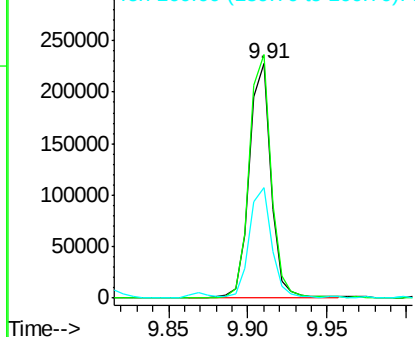


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.91 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Tgt Ion:164 Resp: 218199  
Ion Ratio Lower Upper  
164 100  
162 103.9 86.1 129.1  
160 47.3 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
300000  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E





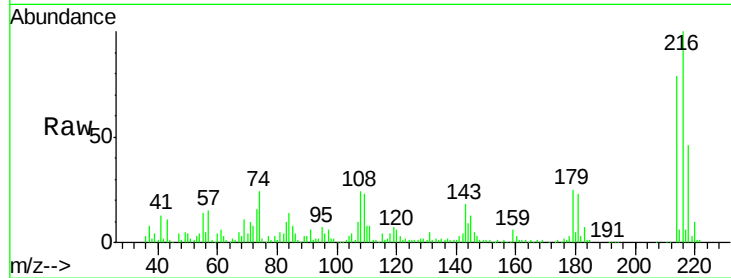
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 39.080 ng  
 RT: 9.03 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

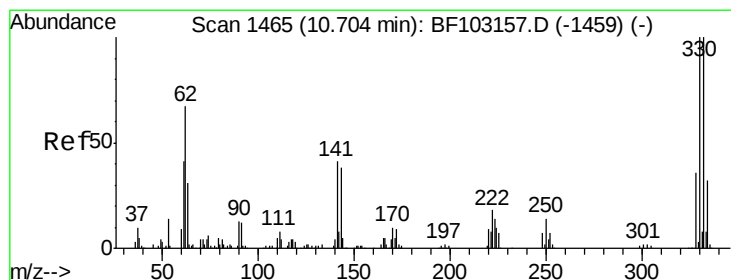
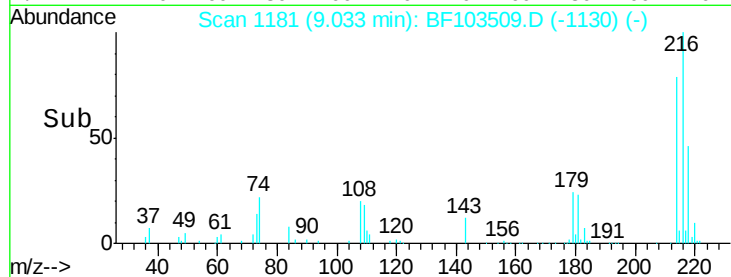
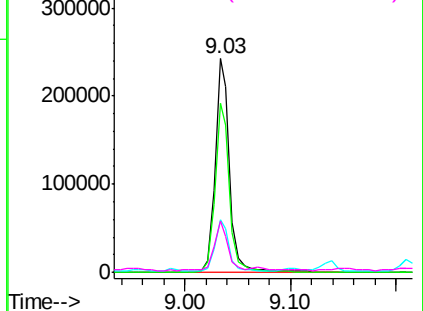
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 216     | 100   | 233115 |       |       |
| 214     | 79.6  | 63.0   | 94.4  |       |
| 179     | 23.4  | 18.1   | 27.1  |       |
| 108     | 21.5  | 17.2   | 25.8  |       |

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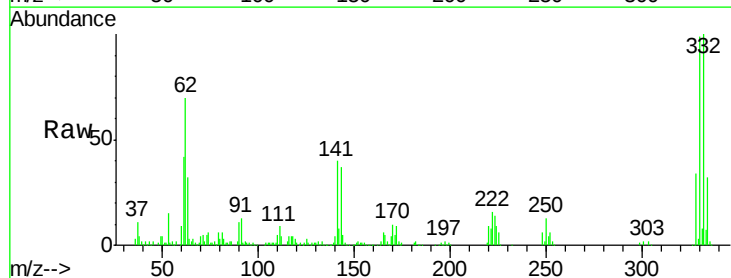


Abundance Ion 216.00 (215.70 to 216.70): E  
 Ion 214.00 (213.70 to 214.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 108.00 (107.70 to 108.70): E

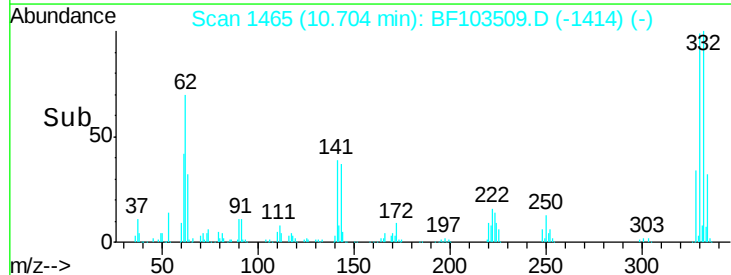
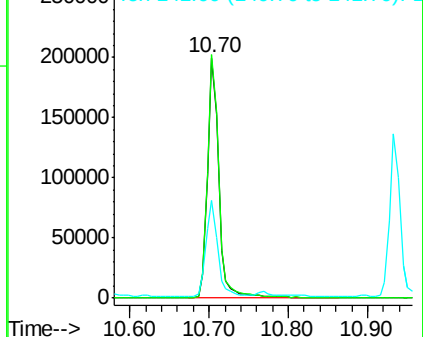


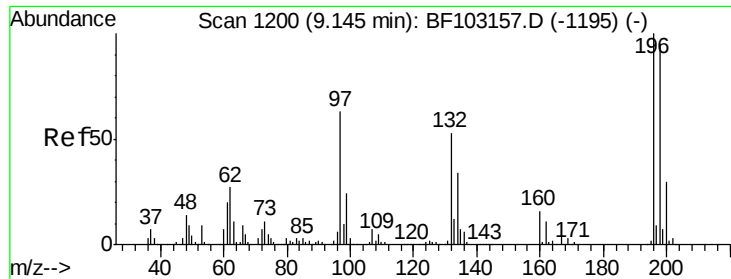
#41  
 2,4,6-Tribromophenol  
 Concen: 109.311 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 201890 |       |       |
| 332     | 101.3 | 77.0   | 115.6 |       |
| 141     | 42.2  | 29.9   | 44.9  |       |



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E





#42

2,4,6-Trichlorophenol

Concen: 41.250 ng

RT: 9.15 min Scan# 1201

Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

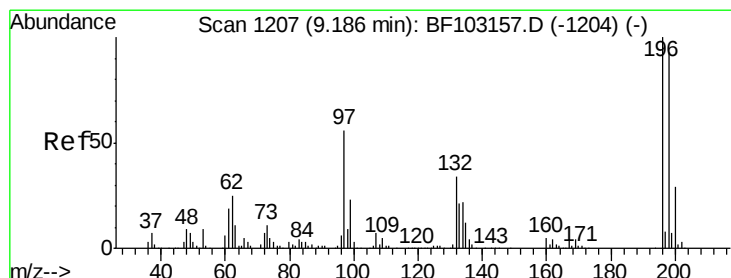
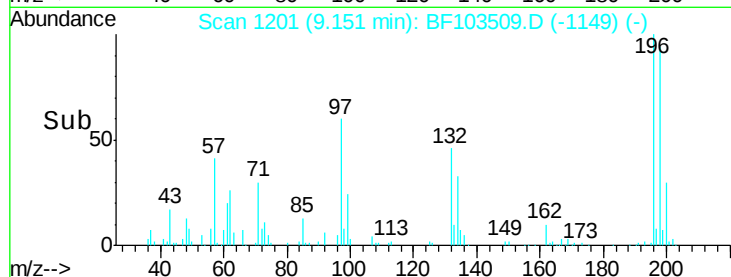
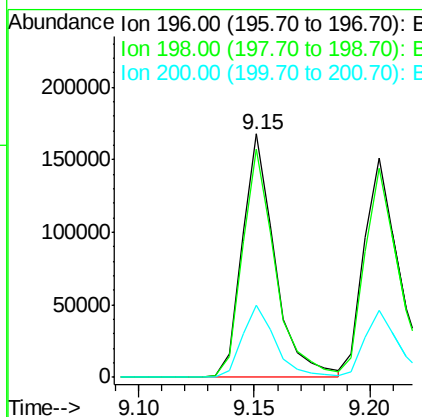
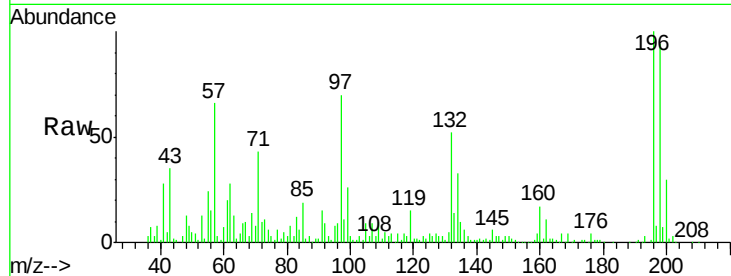
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 196   | Resp: | 165567 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 94.0  | 75.7  | 113.5  |
| 200       | 29.6  | 24.5  | 36.7   |

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#43

2,4,5-Trichlorophenol

Concen: 37.482 ng

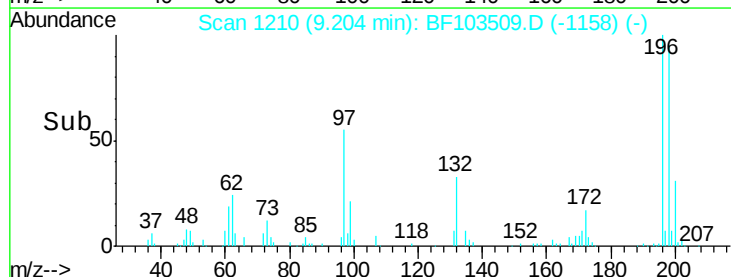
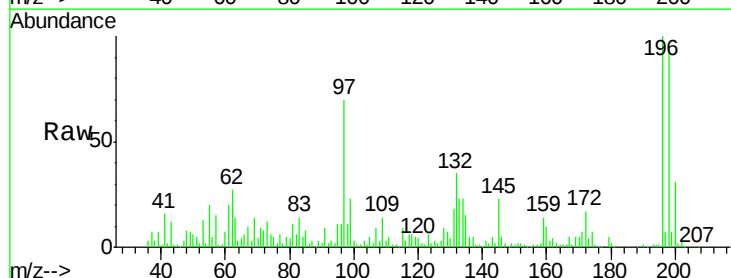
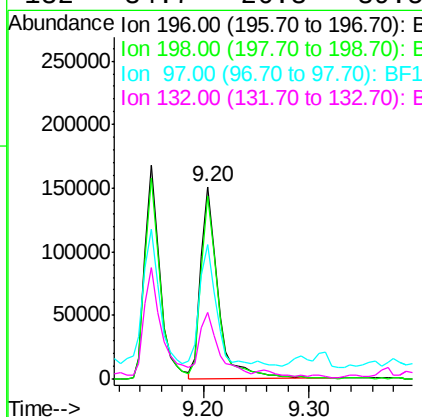
RT: 9.20 min Scan# 1210

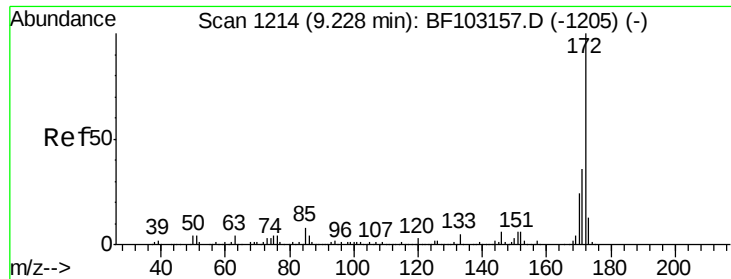
Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 196   | Resp: | 173034 |
| Ion Ratio | Lower | Upper |        |
| 196       | 100   |       |        |
| 198       | 95.4  | 74.6  | 112.0  |
| 97        | 69.7  | 42.9  | 64.3#  |
| 132       | 34.7  | 26.3  | 39.5   |





#44

2-Fluorobiphenyl

Concen: 88.794 ng

RT: 9.23 min Scan# 1214

Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

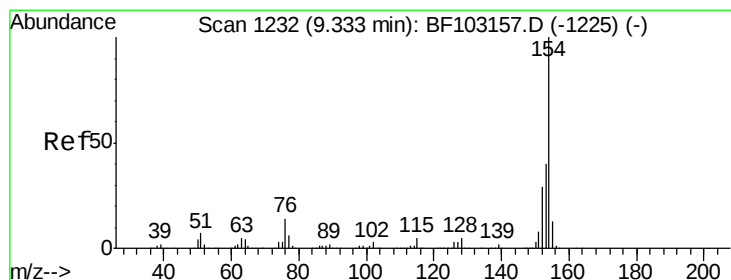
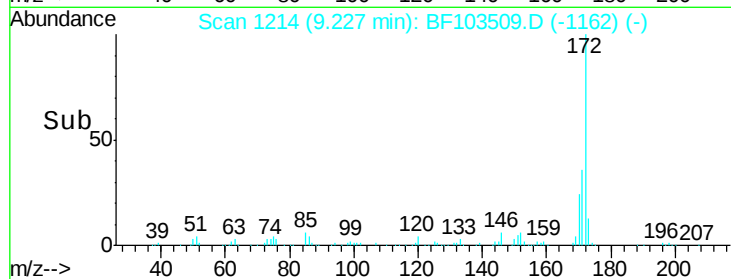
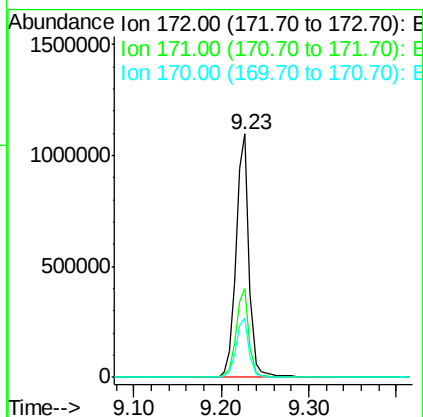
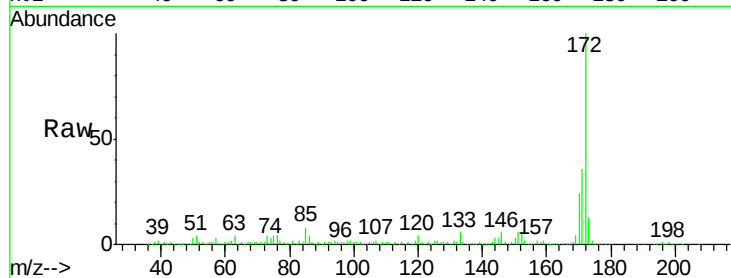
ClientSampleId :

SB-04-9.5-11MSD

| Tot Ion:172 | Resp: 1113064 |       |       |
|-------------|---------------|-------|-------|
| Ion         | Ratio         | Lower | Upper |
| 172         | 100           |       |       |
| 171         | 36.3          | 29.7  | 44.5  |
| 170         | 24.3          | 19.6  | 29.4  |

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#45

1,1'-Biphenyl

Concen: 41.033 ng

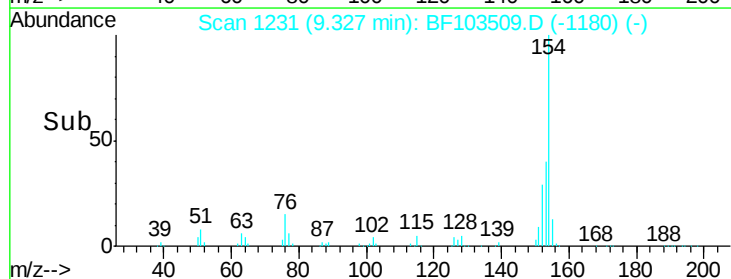
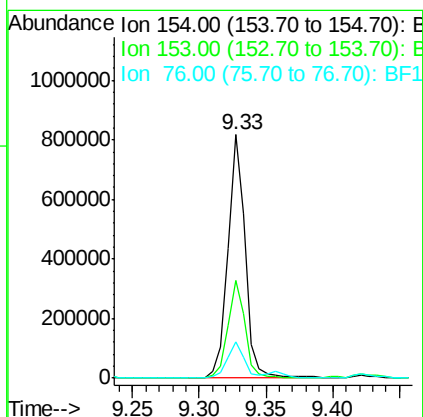
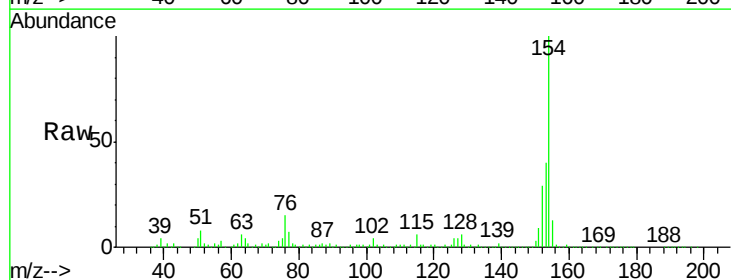
RT: 9.33 min Scan# 1231

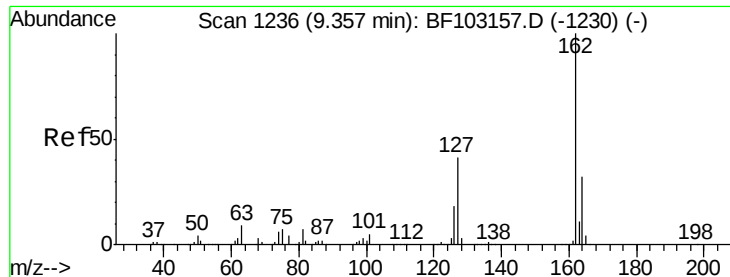
Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

| Tgt Ion:154 | Resp: 750251 |       |       |
|-------------|--------------|-------|-------|
| Ion         | Ratio        | Lower | Upper |
| 154         | 100          |       |       |
| 153         | 40.3         | 21.3  | 61.3  |
| 76          | 14.9         | 0.0   | 34.0  |





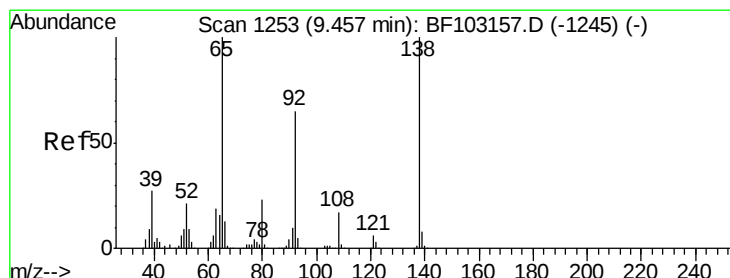
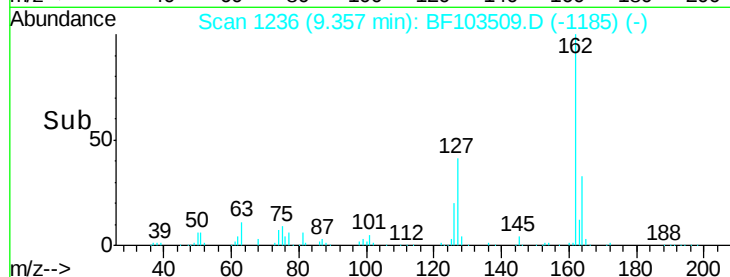
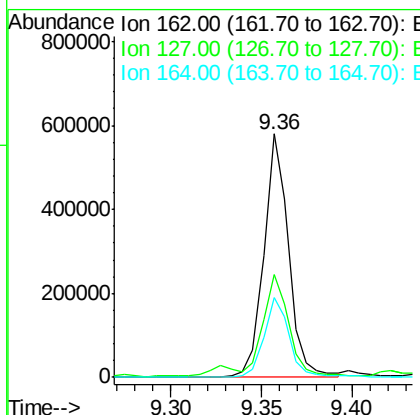
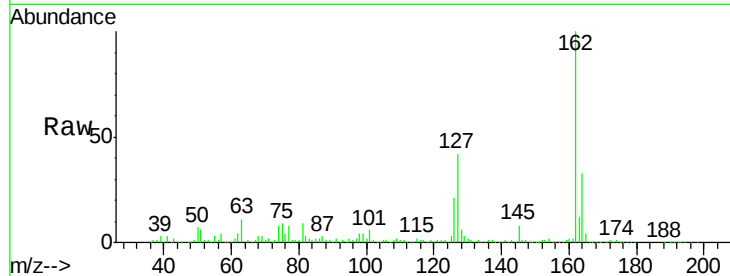
#46  
 2-Chloronaphthalene  
 Concen: 38.224 ng  
 RT: 9.36 min Scan# 1236  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 162     | 100   | 552908 |       |       |
| 127     | 42.0  | 33.9   | 50.9  |       |
| 164     | 32.6  | 26.5   | 39.7  |       |

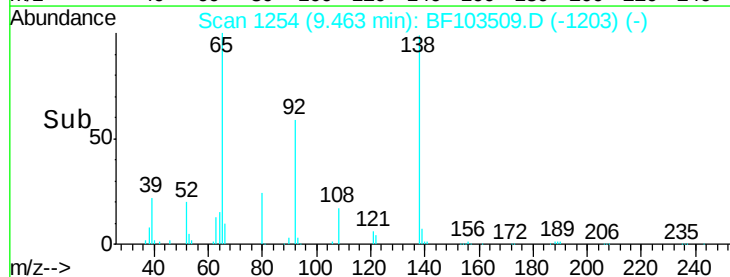
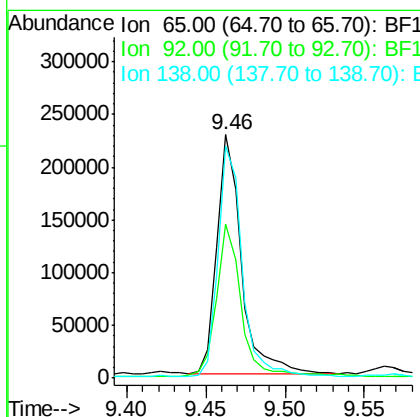
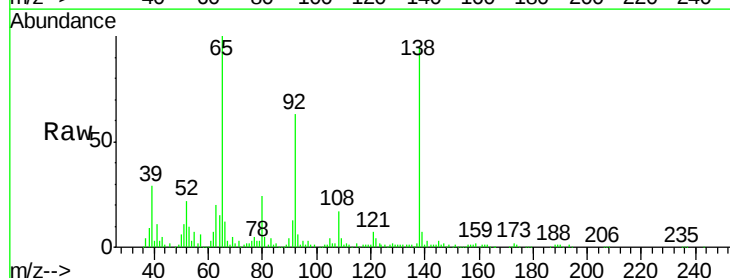
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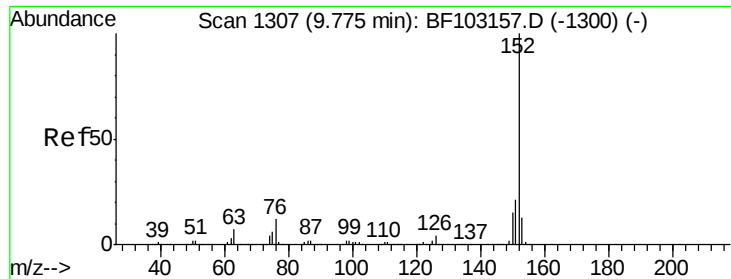
Sohil  
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#47  
 2-Nitroaniline  
 Concen: 45.854 ng  
 RT: 9.46 min Scan# 1254  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 245695 |       |       |
| 92      | 63.4  | 55.8   | 83.6  |       |
| 138     | 95.1  | 91.2   | 136.8 |       |





#48

Acenaphthylene

Concen: 36.326 ng

RT: 9.77 min Scan# 1307

Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

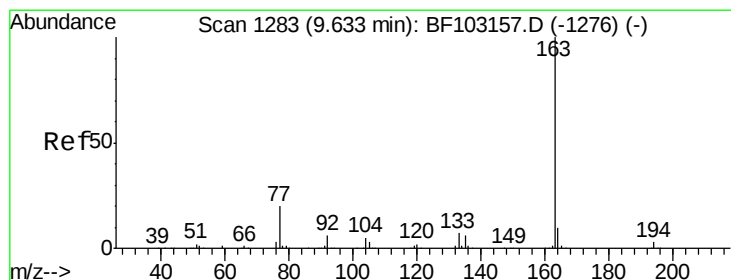
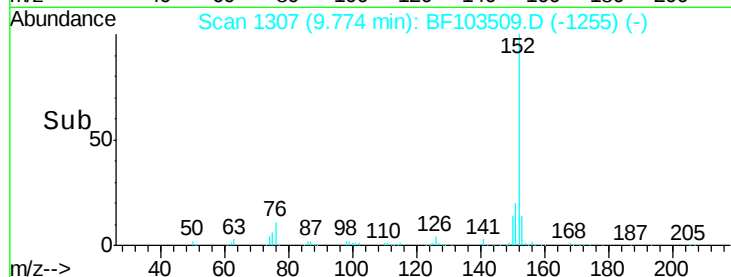
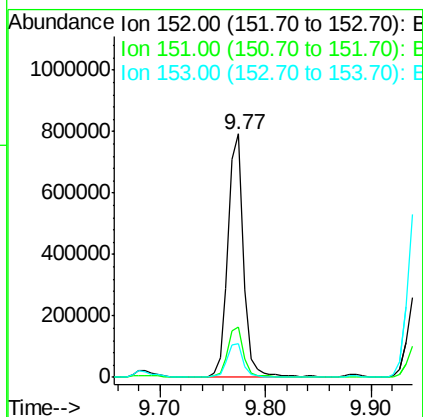
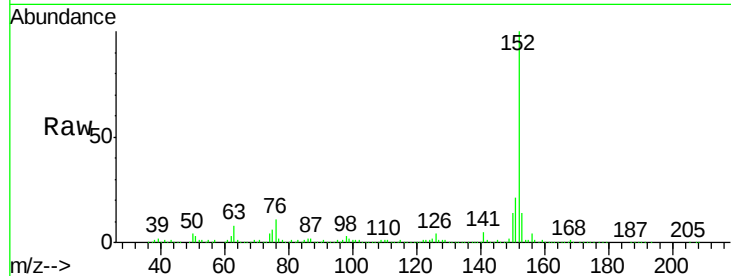
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 808474 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.5  | 16.3  | 24.5   |
| 153       | 13.9  | 10.7  | 16.1   |

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#49

Dimethylphthalate

Concen: 42.662 ng

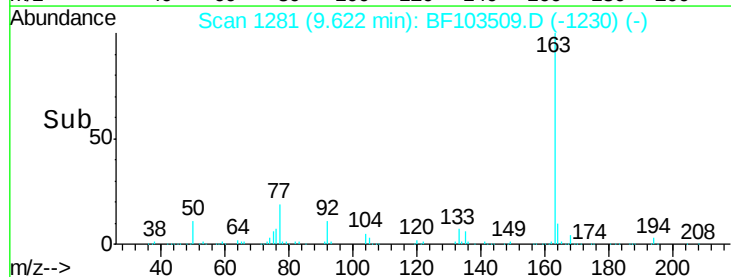
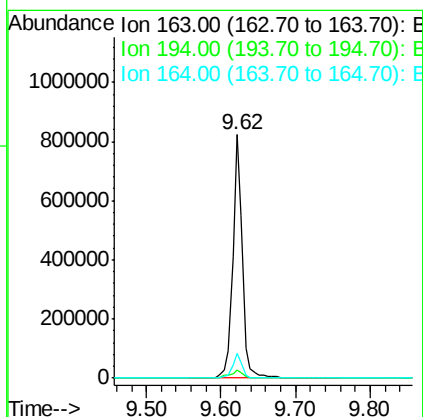
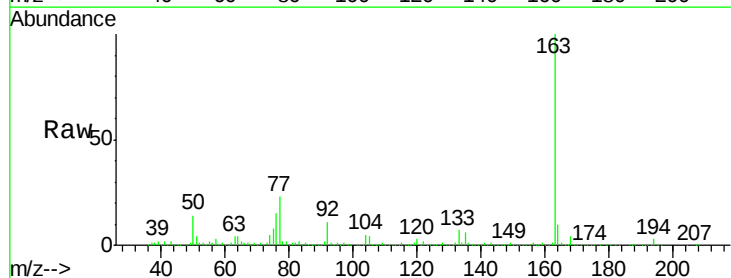
RT: 9.62 min Scan# 1281

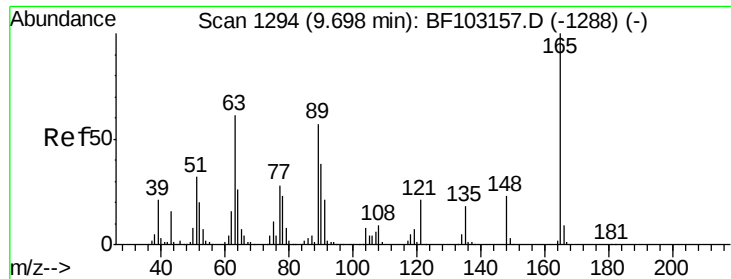
Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 746766 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.2   | 2.7   | 4.1    |
| 164       | 10.1  | 8.2   | 12.2   |





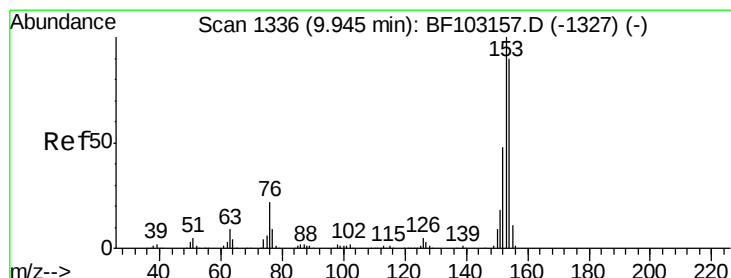
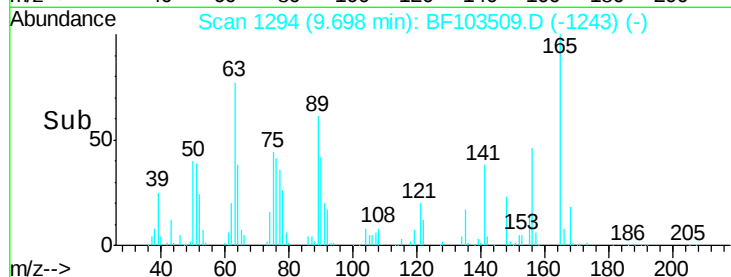
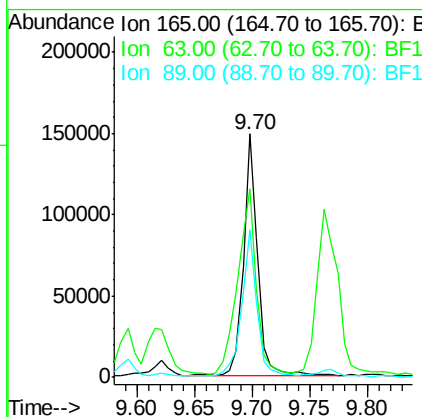
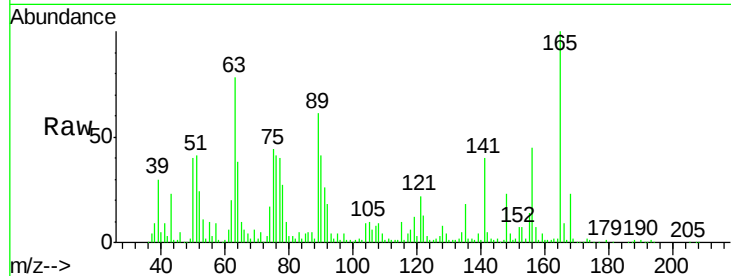
#50  
2,6-Dinitrotoluene  
Concen: 34.492 ng  
RT: 9.70 min Scan# 1294  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 126702 |       |       |
| 63      | 77.7  | 44.7   | 67.1# |       |
| 89      | 60.6  | 44.0   | 66.0  |       |

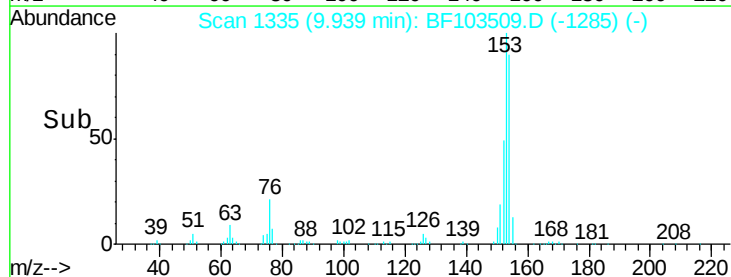
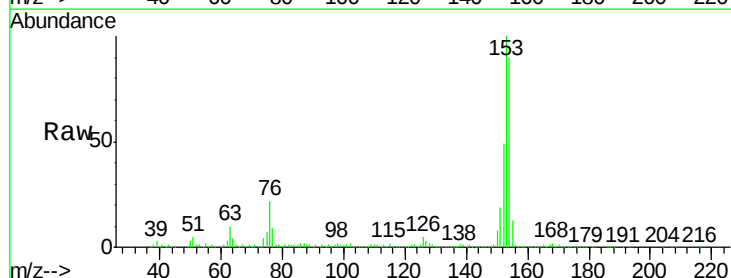
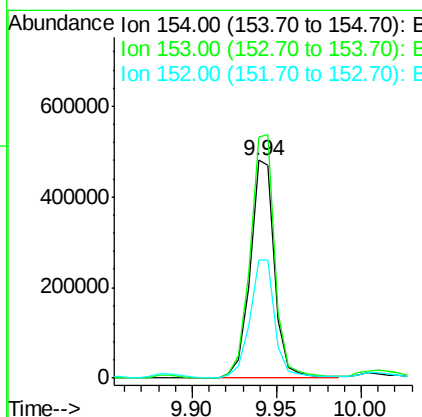
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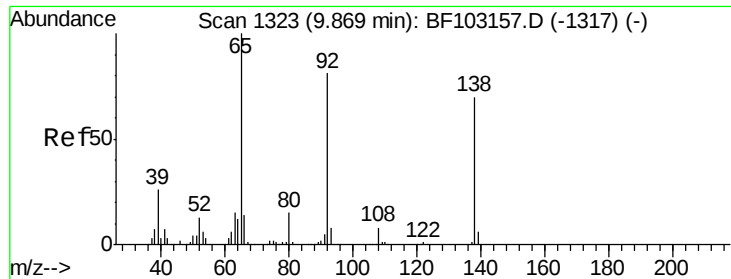
Sohil  
3/8/2018 4:43:09 PM



#51  
Acenaphthene  
Concen: 37.342 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. -0.01 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 484618 |       |       |
| 153     | 111.0 | 91.2   | 136.8 |       |
| 152     | 54.1  | 43.8   | 65.8  |       |





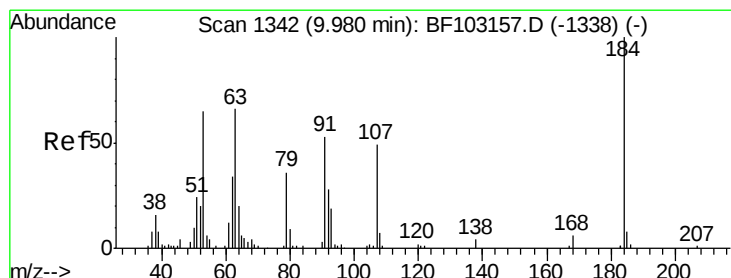
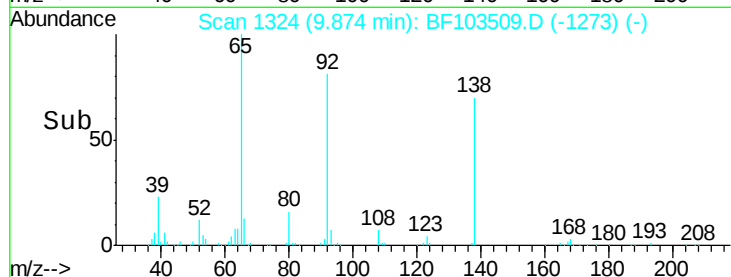
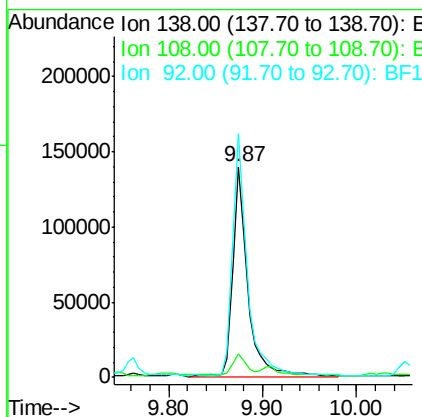
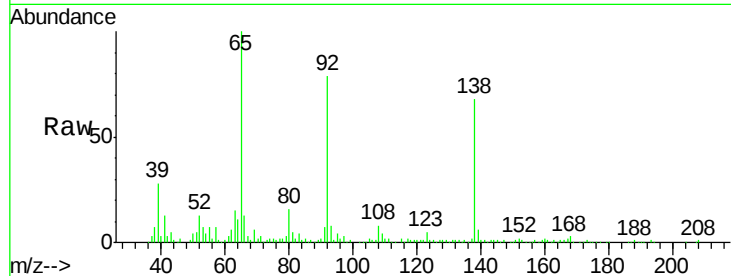
#52  
3-Nitroaniline  
Concen: 33.404 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 108     | 11.1  | 9.4   | 14.0  |
| 92      | 115.7 | 89.4  | 134.2 |

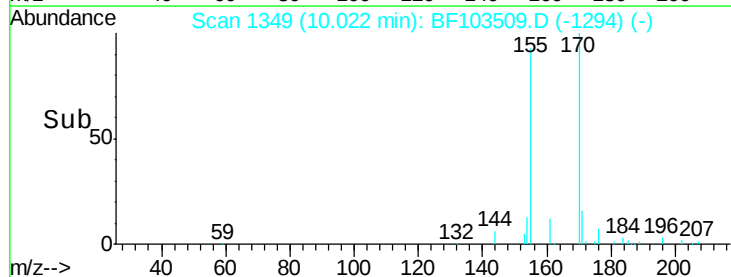
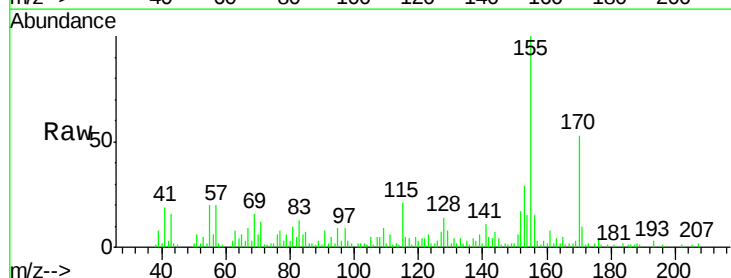
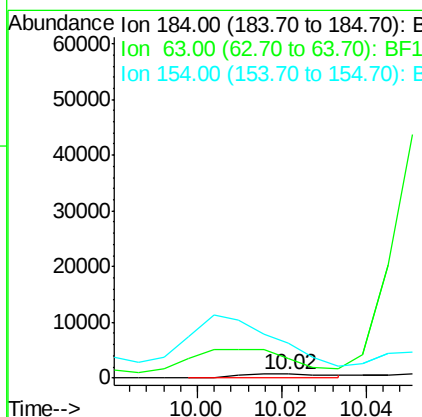
Manual Integrations  
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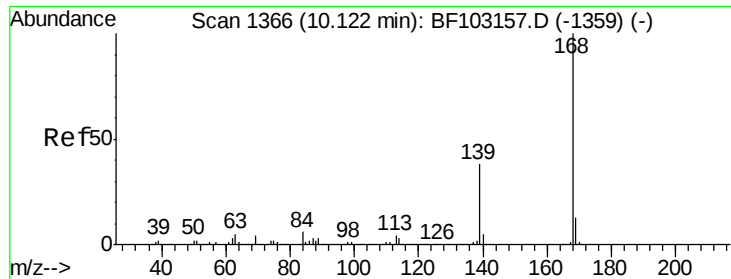
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#53  
2,4-Dinitrophenol  
Concen: 10.316 ng  
RT: 10.02 min Scan# 1349  
Delta R.T. 0.02 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 184     | 100   |       |        |
| 63      | 484.4 | 54.2  | 81.2#  |
| 154     | 879.7 | 184.0 | 276.0# |





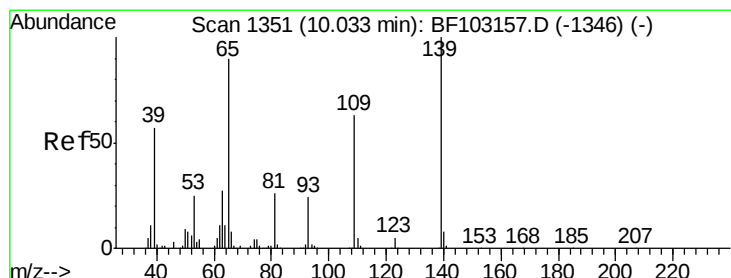
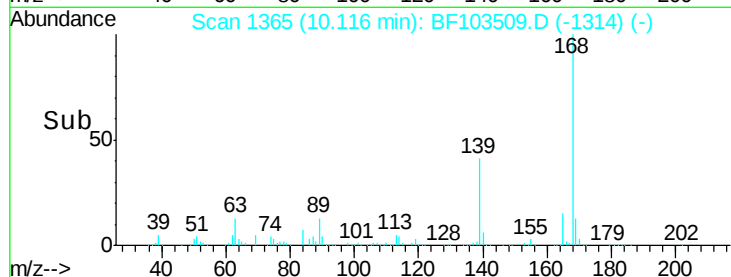
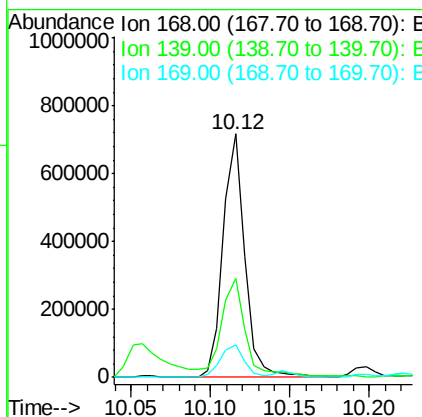
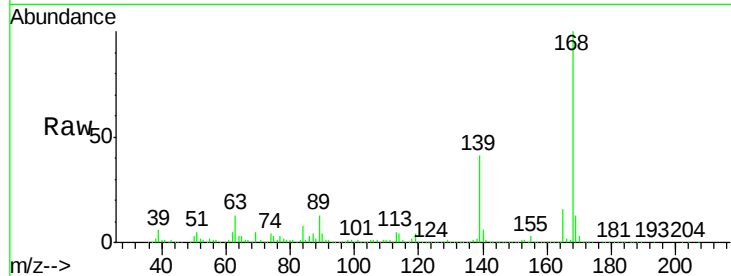
#54  
Dibenzofuran  
Concen: 38.178 ng  
RT: 10.12 min Scan# 1365  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.6  | 30.1  | 45.1  |
| 169     | 13.4  | 10.9  | 16.3  |

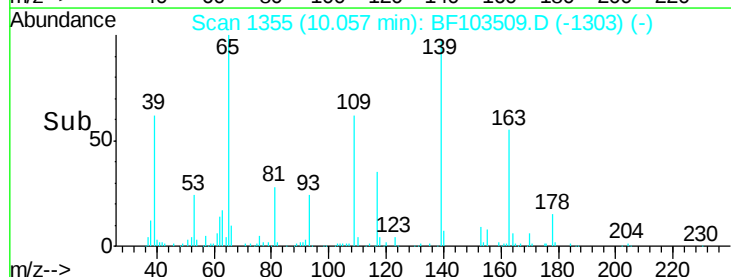
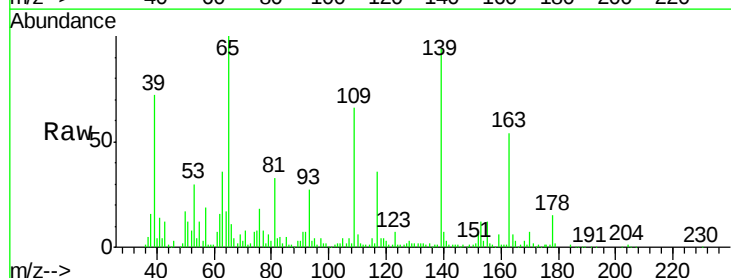
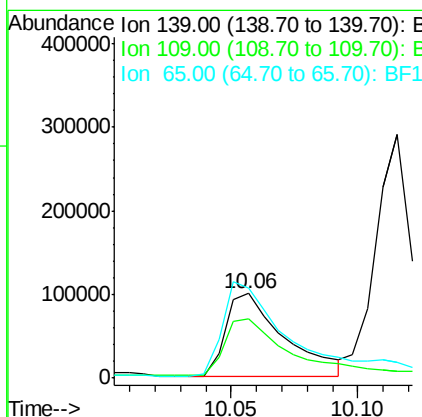
Manual Integrations  
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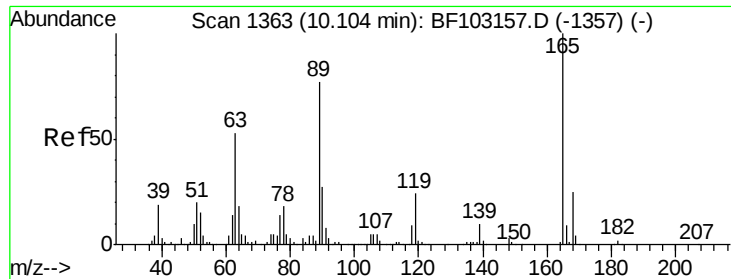
Sohil  
3/8/2018 4:43:09 PM



#55  
4-Nitrophenol  
Concen: 56.293 ng  
RT: 10.06 min Scan# 1355  
Delta R.T. 0.01 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 69.7  | 48.4  | 88.4  |
| 65      | 106.0 | 72.6  | 112.6 |





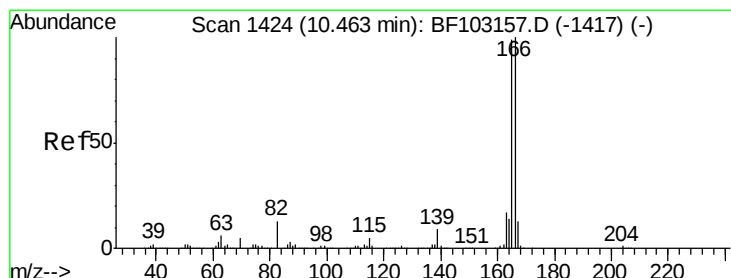
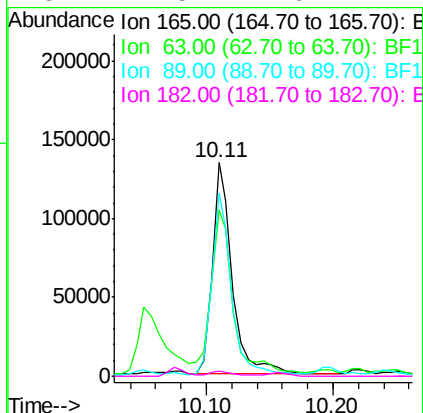
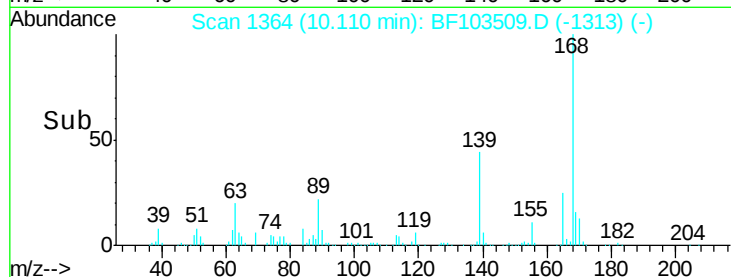
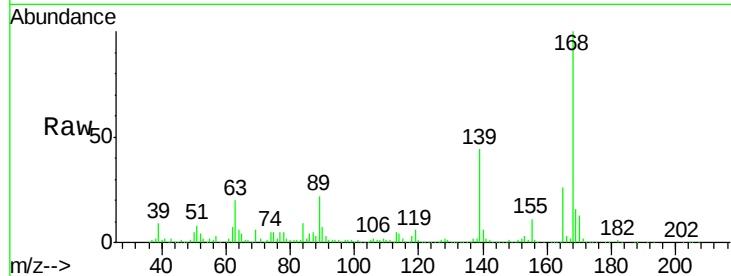
#56  
2,4-Dinitrotoluene  
Concen: 31.687 ng  
RT: 10.11 min Scan# 1364  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 78.2  | 36.4  | 54.6# |
| 89      | 85.9  | 57.8  | 86.6  |
| 182     | 2.5   | 1.6   | 2.4#  |

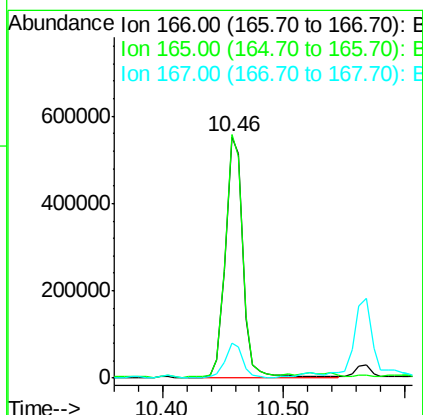
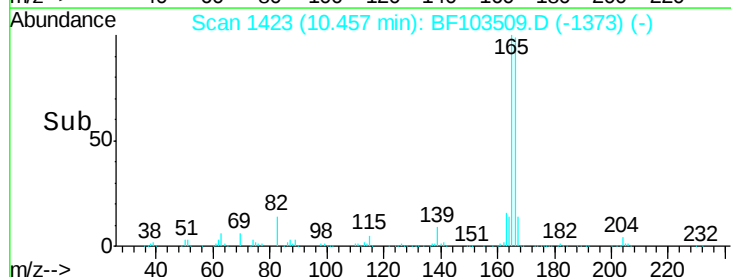
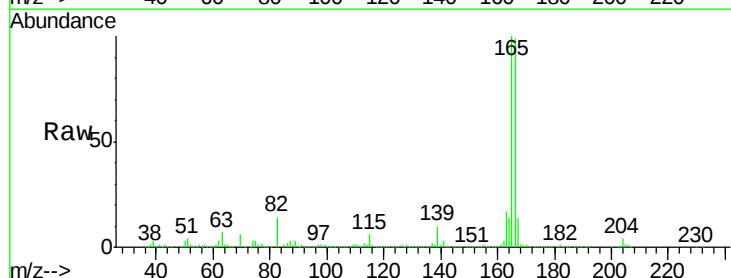
Manual Integrations  
APPROVED

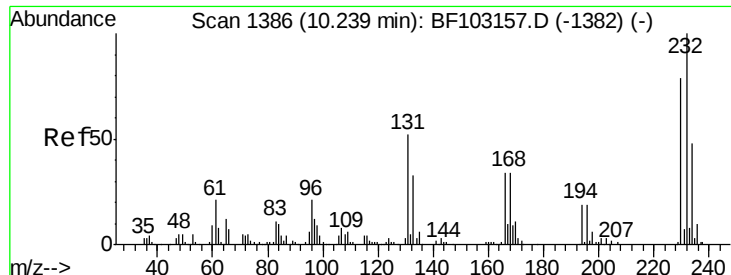
Sohil  
3/8/2018 4:43:09 PM



#57  
Fluorene  
Concen: 36.586 ng  
RT: 10.46 min Scan# 1423  
Delta R.T. -0.01 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 101.0 | 79.8  | 119.8 |
| 167     | 14.6  | 10.6  | 16.0  |





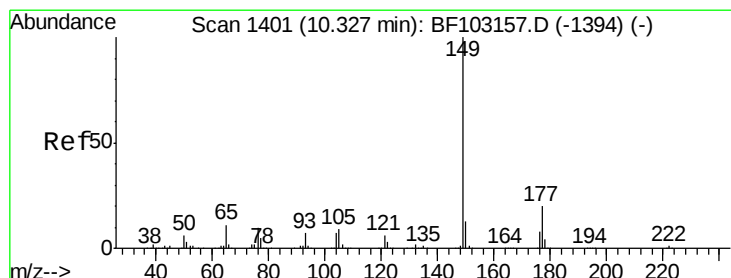
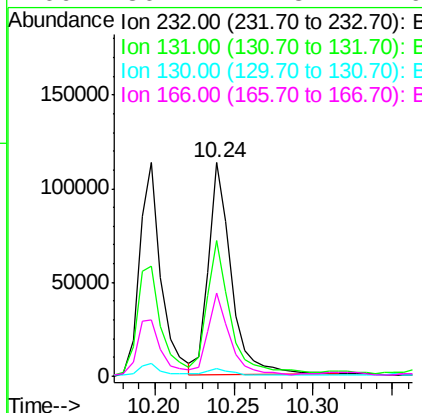
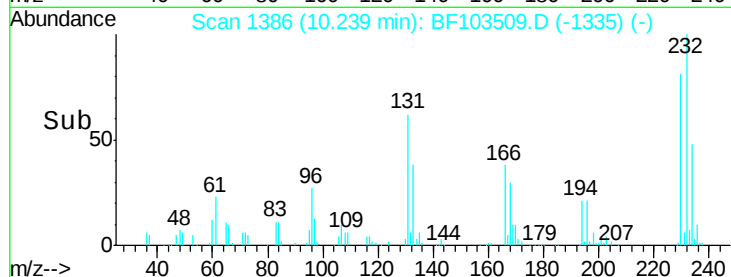
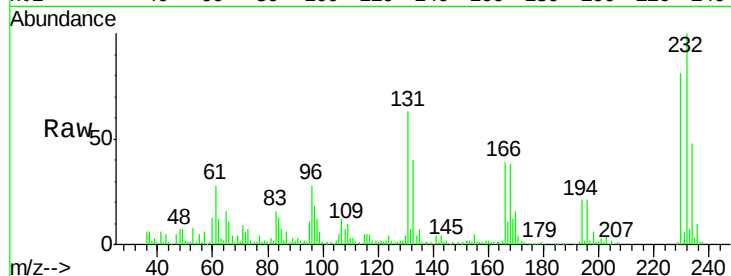
#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 37.284 ng  
 RT: 10.24 min Scan# 1386  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 61.3  | 43.8  | 65.8  |
| 130     | 3.1   | 2.1   | 3.1   |
| 166     | 36.2  | 27.8  | 41.6  |

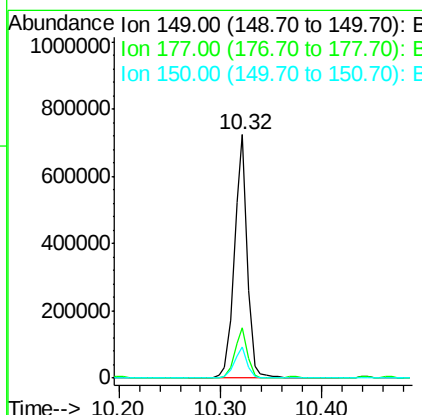
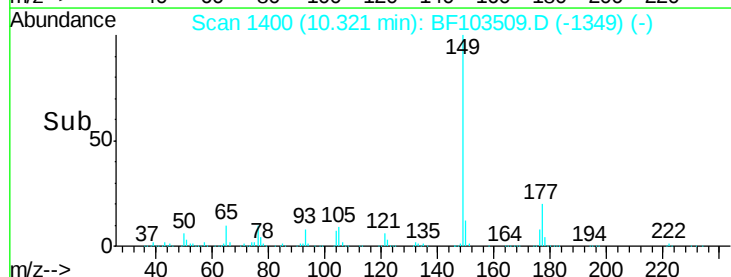
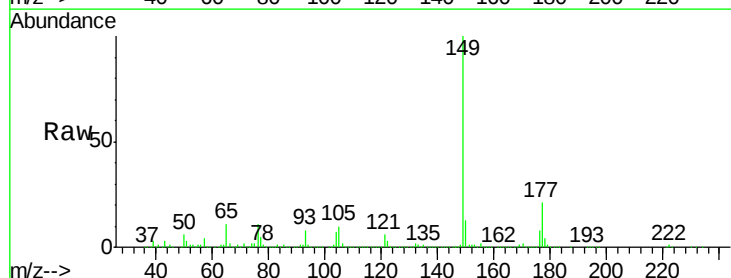
Manual Integrations  
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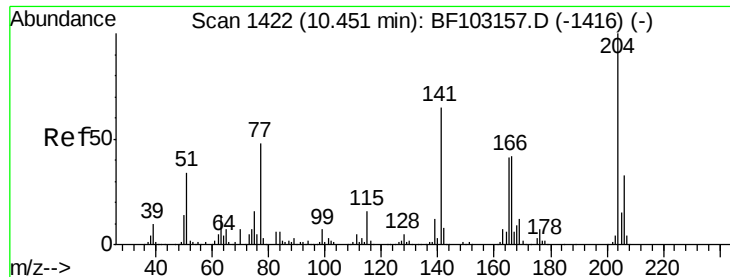
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#59  
 Diethylphthalate  
 Concen: 37.775 ng  
 RT: 10.32 min Scan# 1400  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 177     | 20.5  | 16.1  | 24.1  |
| 150     | 12.6  | 10.1  | 15.1  |





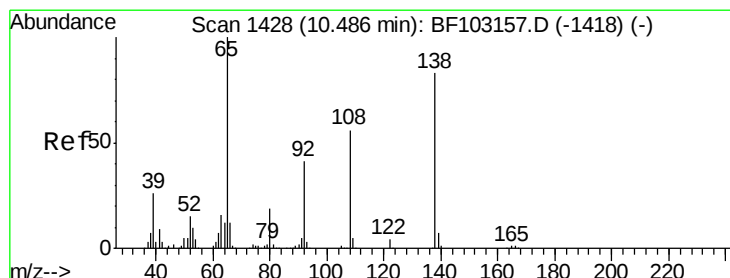
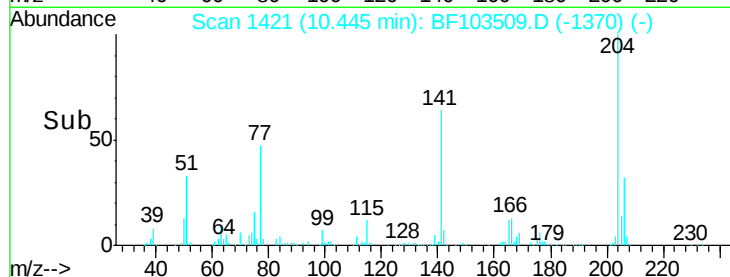
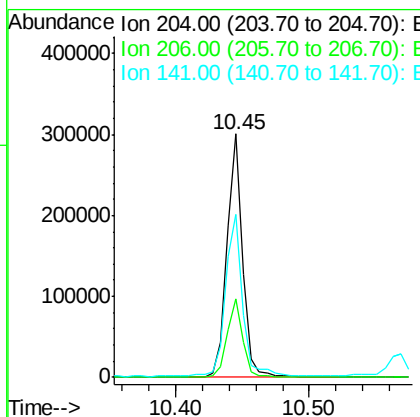
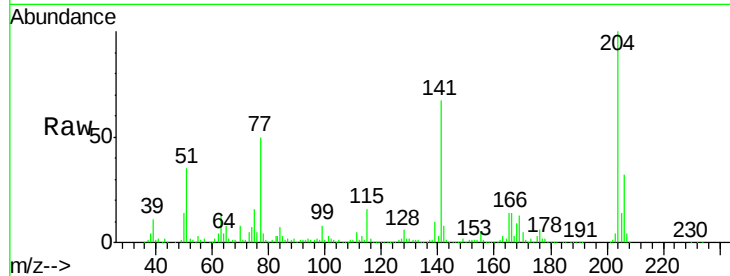
#60  
 4-Chlorophenyl-phenylether  
 Concen: 38.802 ng  
 RT: 10.45 min Scan# 1421  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 204     | 100   |       |       |
| 206     | 32.1  | 26.5  | 39.7  |
| 141     | 66.8  | 54.6  | 81.8  |

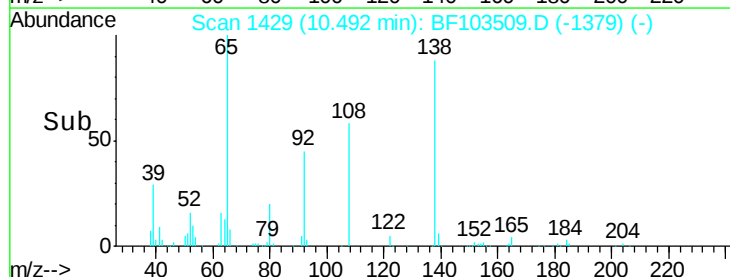
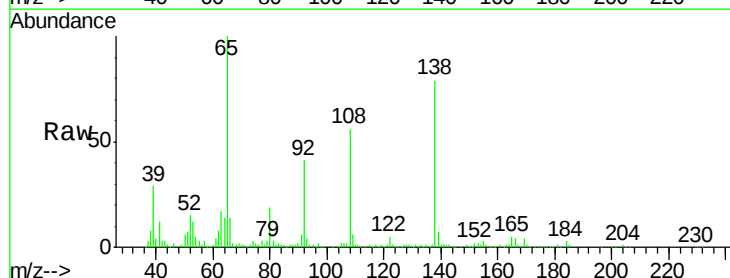
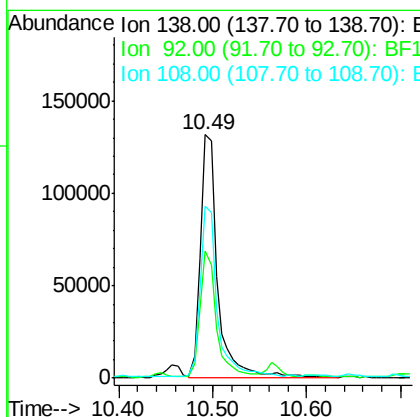
Manual Integrations  
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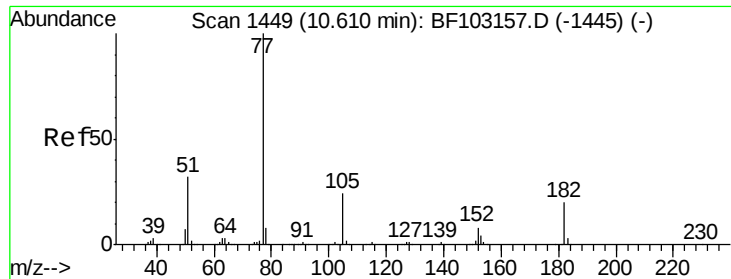
Sohil  
 3/8/2018 4:43:09 PM



#61  
 4-Nitroaniline  
 Concen: 35.633 ng  
 RT: 10.49 min Scan# 1429  
 Delta R.T. -0.01 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 138     | 100   |       |       |
| 92      | 52.3  | 30.2  | 70.2  |
| 108     | 70.7  | 52.5  | 92.5  |





#62

Azobenzene

Concen: 37.853 ng

RT: 10.60 min Scan# 1448

Delta R.T. -0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

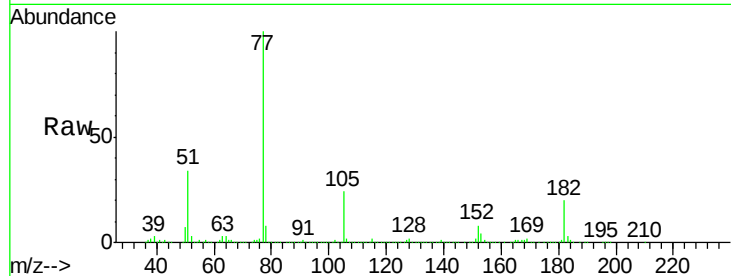
ClientSampleId :

SB-04-9.5-11MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 77    | Resp: | 645054 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 182      | 19.6  | 1.7   | 41.7   |
| 105      | 23.7  | 3.0   | 43.0   |
| 51       | 33.7  | 9.9   | 49.9   |

Manual Integrations  
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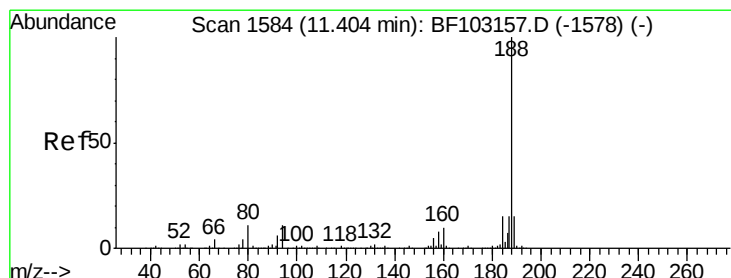
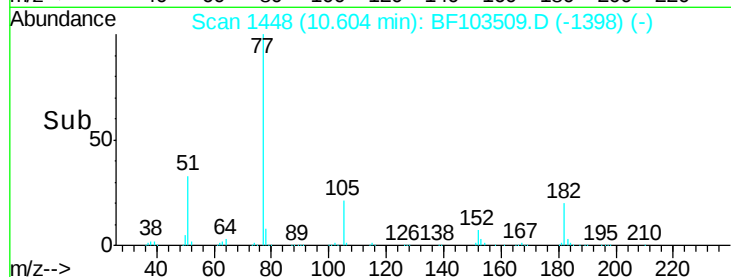
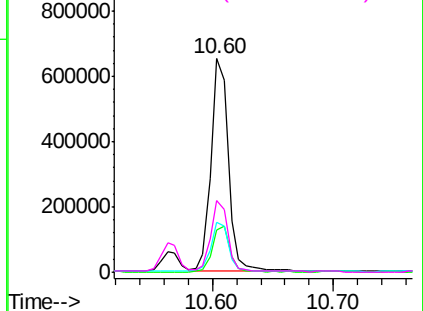


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF103509.D

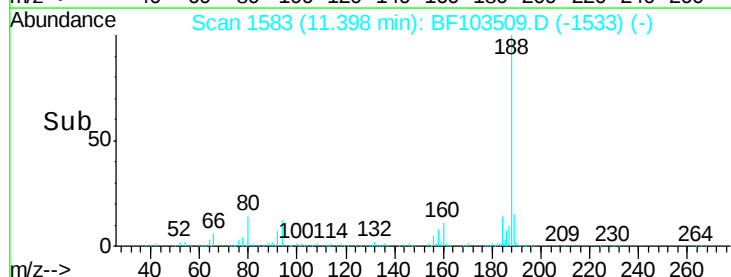
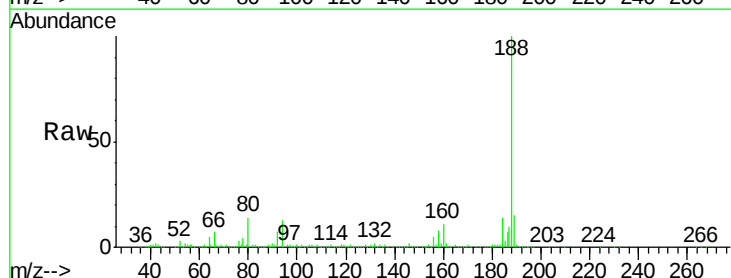
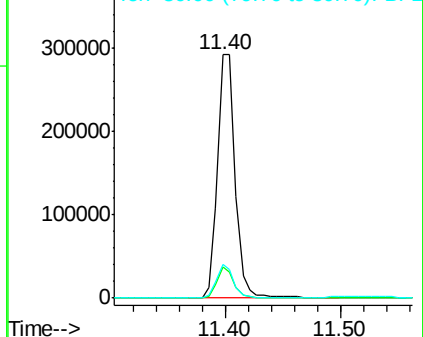
Acq: 7 Mar 2018 18:53

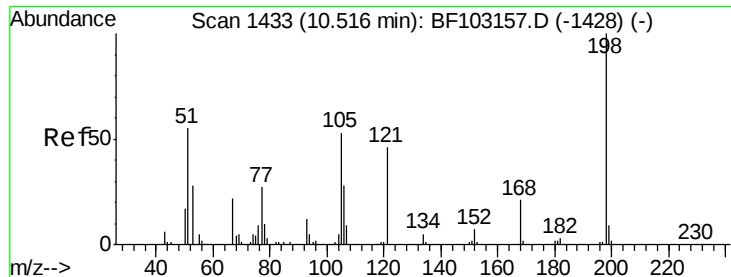
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 313150 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 12.9  | 8.5   | 12.7#  |
| 80       | 14.0  | 9.2   | 13.8#  |

Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#64

4,6-Dinitro-2-methylphenol

Concen: 6.990 ng

RT: 10.53 min Scan# 1436

Delta R.T. 0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

ClientSampleId :

SB-04-9.5-11MSD

Tot Ion:198 Resp: 4344

Ion Ratio Lower Upper

198 100

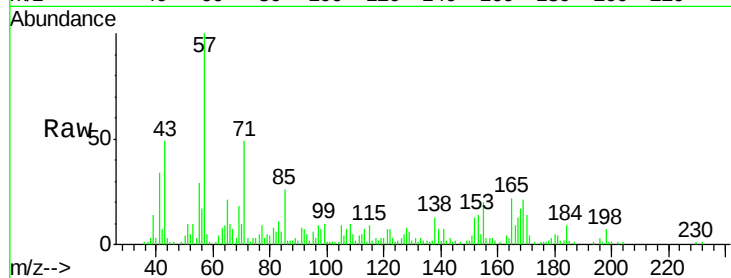
51 134.7 37.7 77.7#

105 117.6 36.3 76.3#

Manual Integrations  
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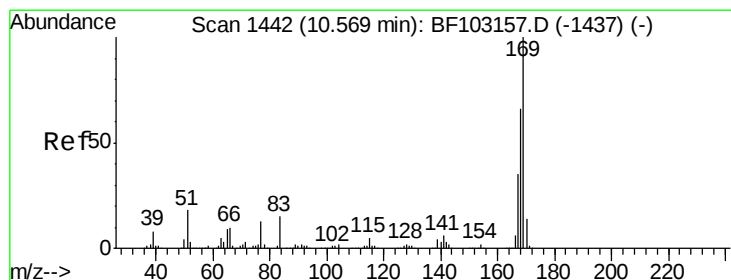
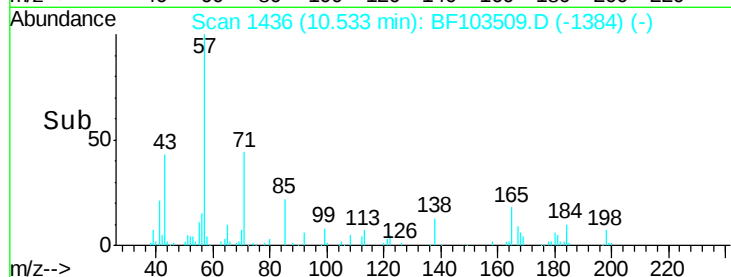
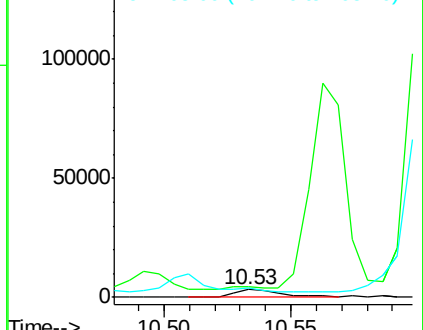
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Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#65

n-Nitrosodiphenylamine

Concen: 46.433 ng

RT: 10.57 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

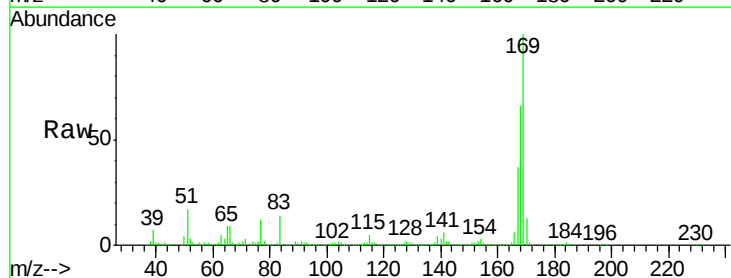
Tgt Ion:169 Resp: 506279

Ion Ratio Lower Upper

169 100

168 65.6 54.4 81.6

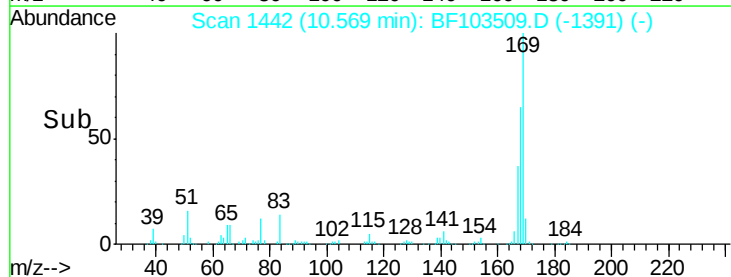
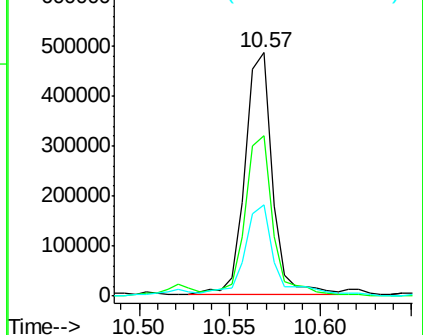
167 37.3 29.8 44.6

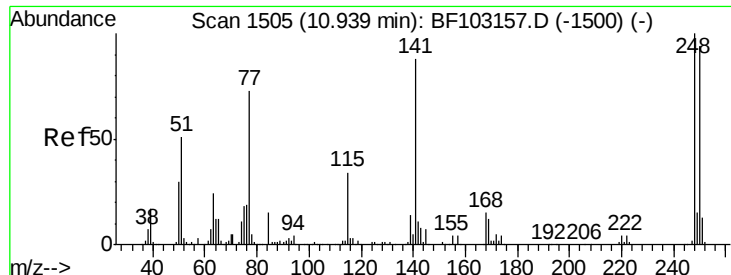


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





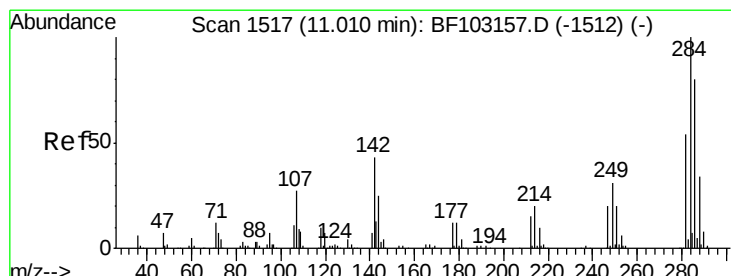
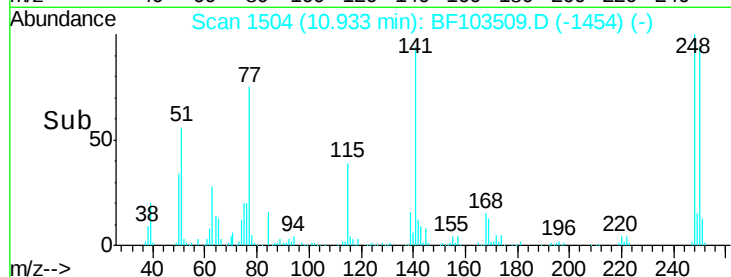
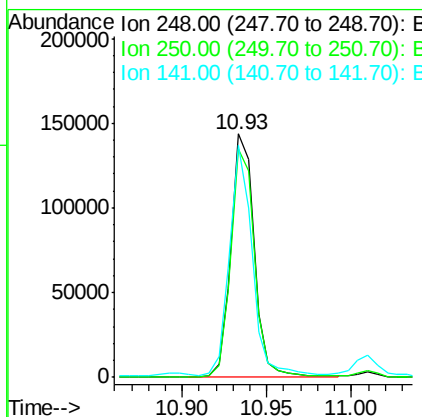
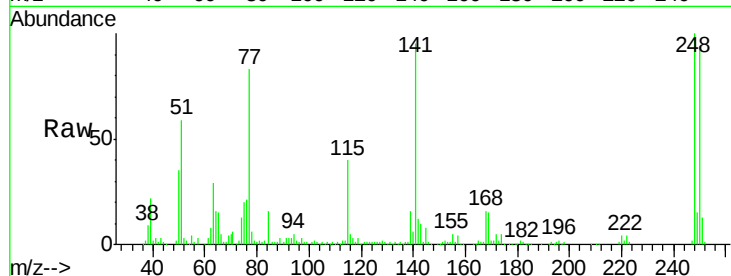
#66  
 4-Bromophenyl-phenylether  
 Concen: 42.523 ng  
 RT: 10.93 min Scan# 1504  
 Delta R.T. -0.01 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 248   | Resp: | 138714 |
| Ion Ratio | Lower | Upper |        |
| 248       | 100   |       |        |
| 250       | 93.7  | 76.9  | 115.3  |
| 141       | 95.1  | 74.4  | 111.6  |

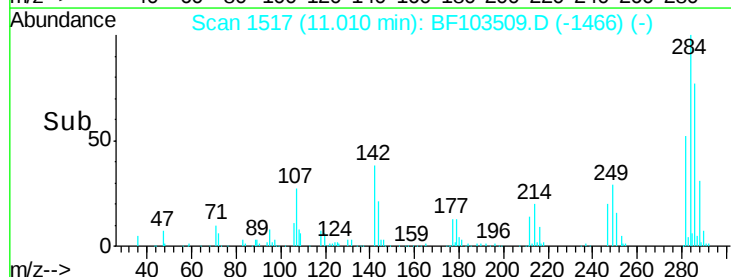
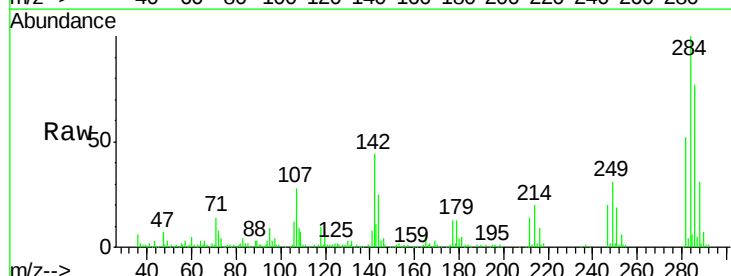
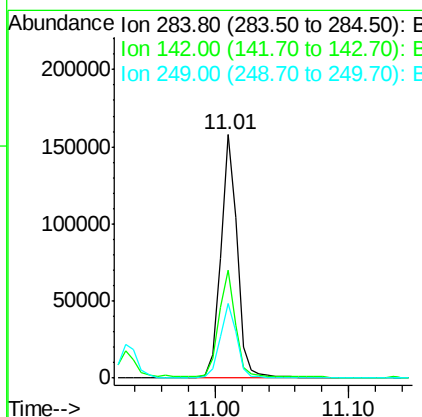
Manual Integrations  
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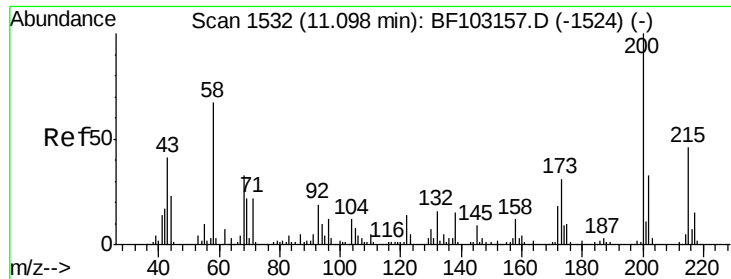
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#67  
 Hexachlorobenzene  
 Concen: 38.966 ng  
 RT: 11.01 min Scan# 1517  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 284   | Resp: | 137964 |
| Ion Ratio | Lower | Upper |        |
| 284       | 100   |       |        |
| 142       | 44.2  | 34.6  | 52.0   |
| 249       | 30.8  | 24.8  | 37.2   |





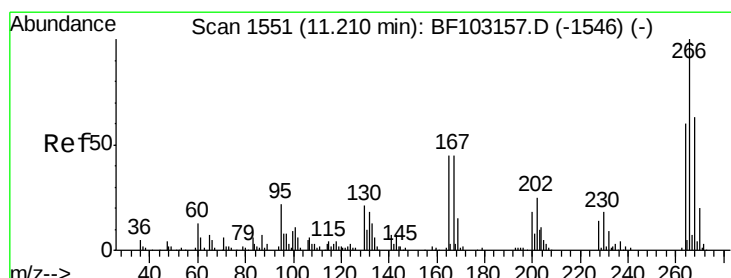
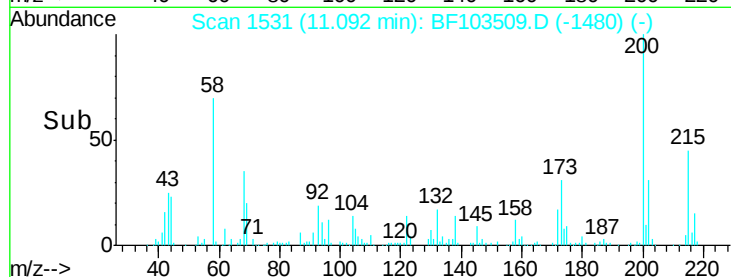
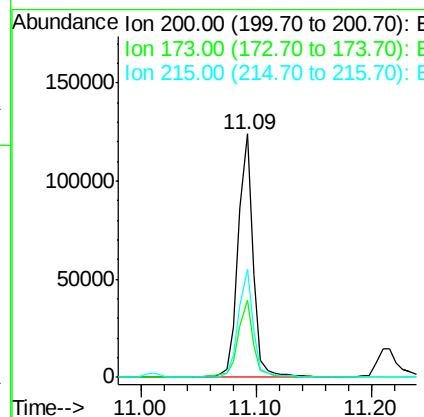
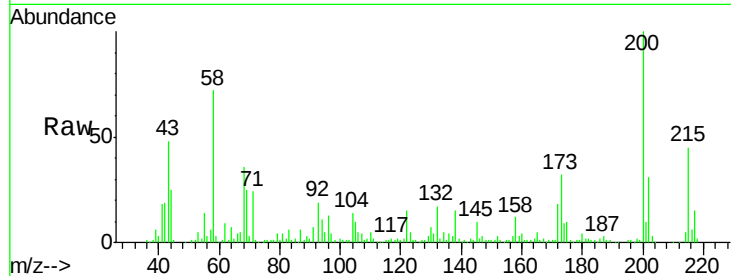
#68  
Atrazine  
Concen: 34.224 ng  
RT: 11.09 min Scan# 1531  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 200     | 100   |            |            |
| 173     | 31.6  | 8.6        | 48.6       |
| 215     | 44.5  | 25.1       | 65.1       |

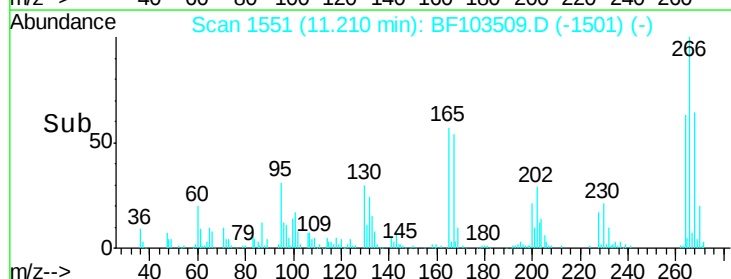
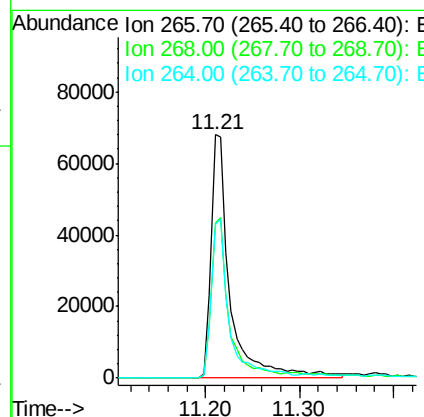
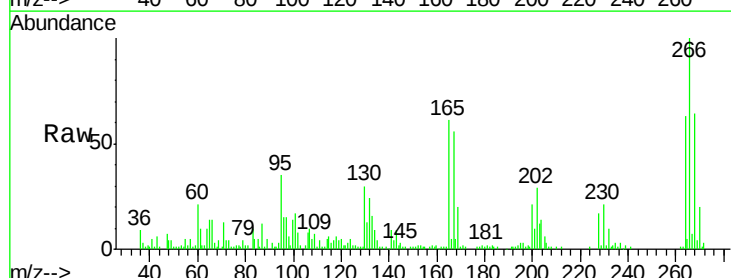
Manual Integrations  
APPROVED

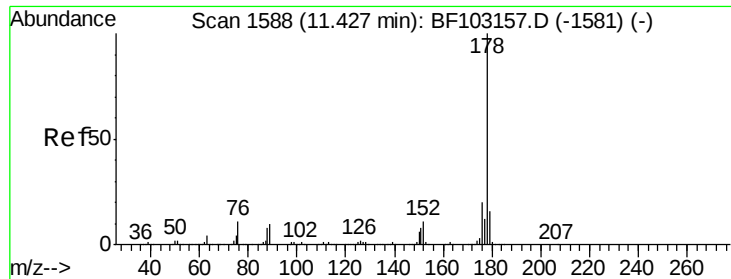
Sohil  
3/8/2018 4:43:09 PM



#69  
Pentachlorophenol  
Concen: 57.013 ng  
RT: 11.21 min Scan# 1551  
Delta R.T. -0.01 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 266     | 100   |            |            |
| 268     | 63.6  | 51.1       | 76.7       |
| 264     | 63.2  | 49.5       | 74.3       |





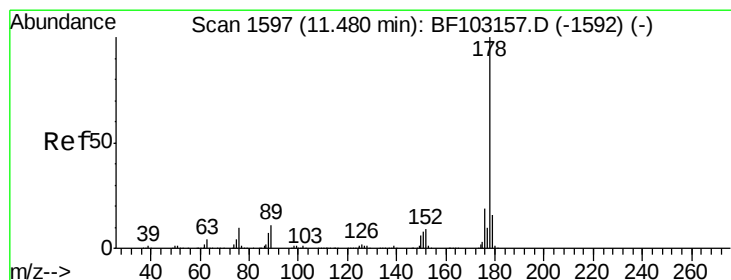
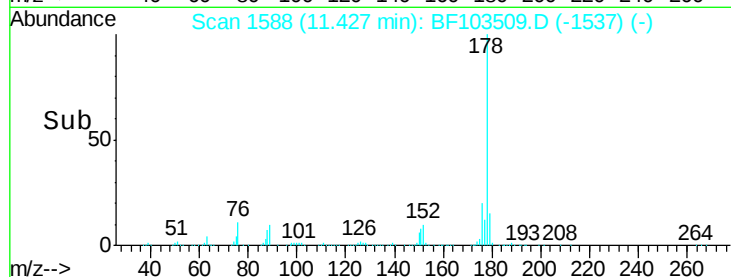
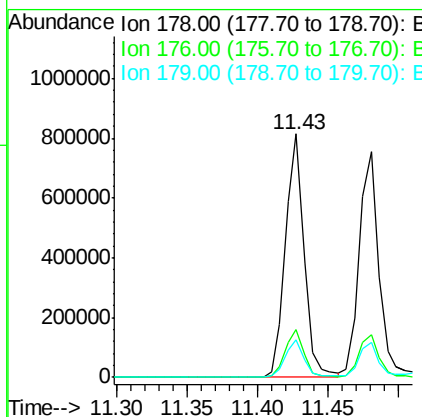
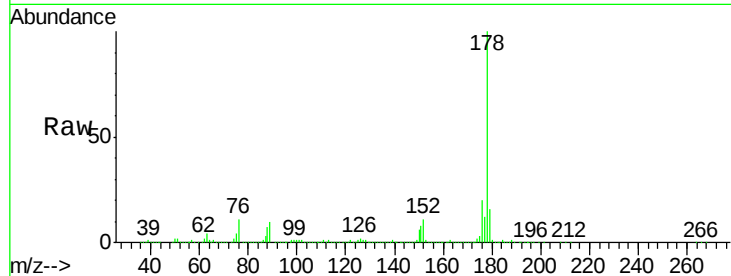
#70  
Phenanthrene  
Concen: 43.736 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.7  | 15.8  | 23.8  |
| 179     | 15.7  | 13.0  | 19.6  |

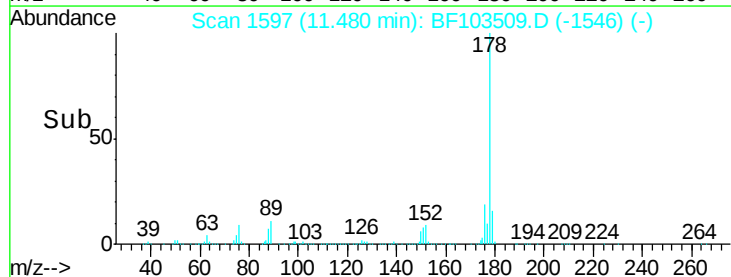
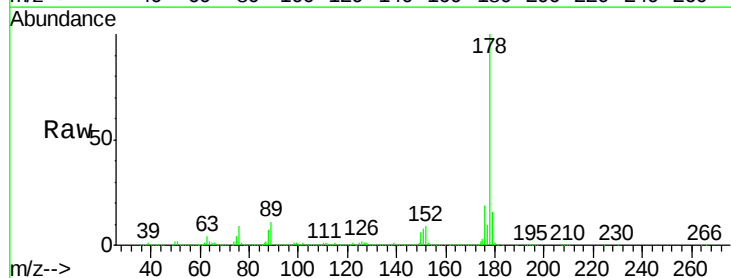
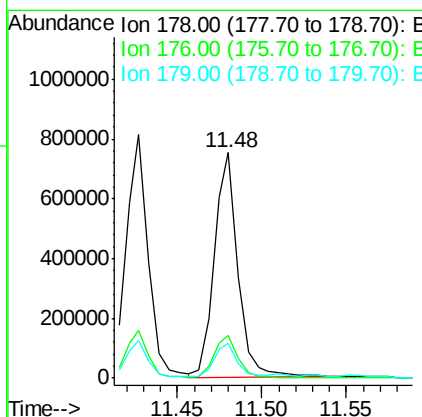
Manual Integrations  
APPROVED

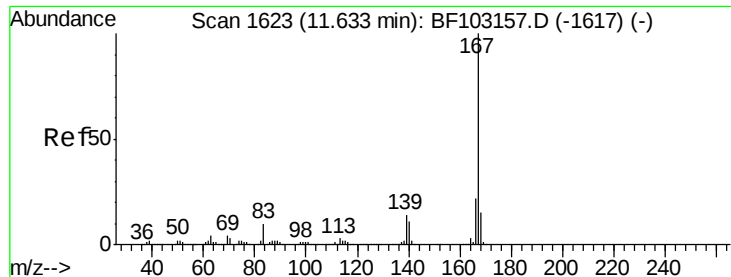
Sohil  
3/8/2018 4:43:09 PM



#71  
Anthracene  
Concen: 41.403 ng  
RT: 11.48 min Scan# 1597  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 15.4  | 23.2  |
| 179     | 15.7  | 12.6  | 19.0  |





#72

Carbazole

Concen: 37.727 ng

RT: 11.64 min Scan# 1624

Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

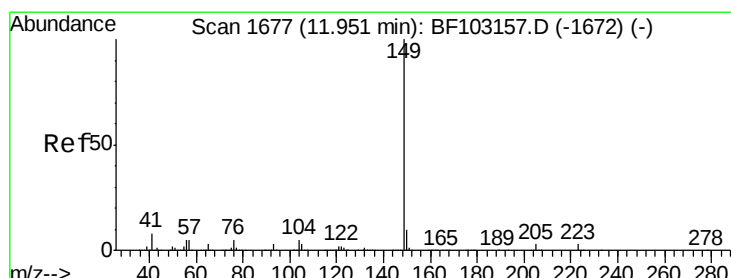
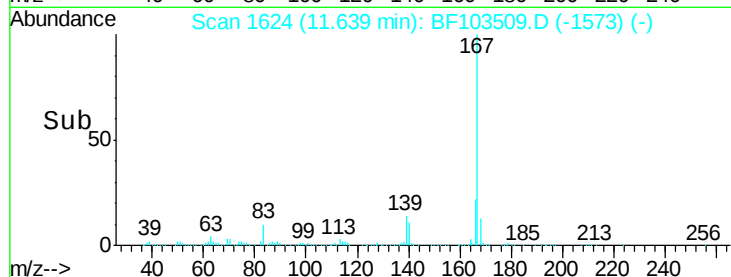
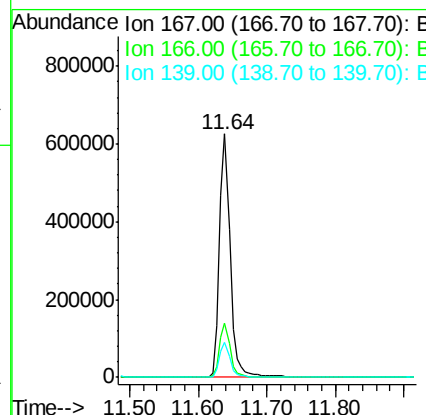
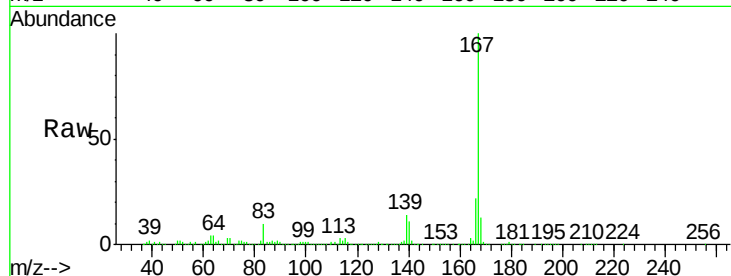
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 167   | Resp: | 663936 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 22.2  | 17.6  | 26.4   |
| 139       | 14.4  | 10.9  | 16.3   |

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#73

Di-n-butylphthalate

Concen: 41.751 ng

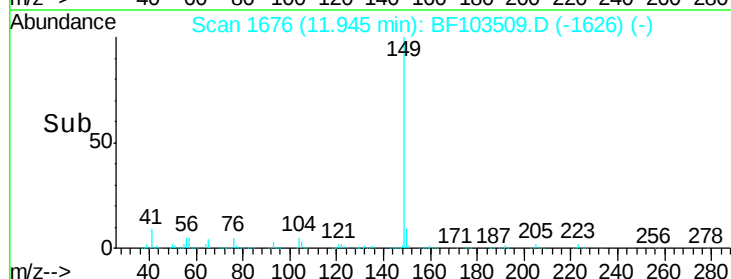
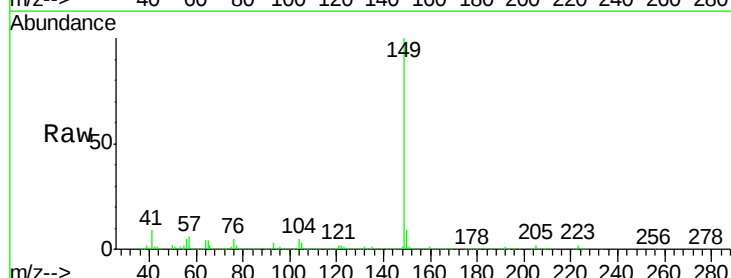
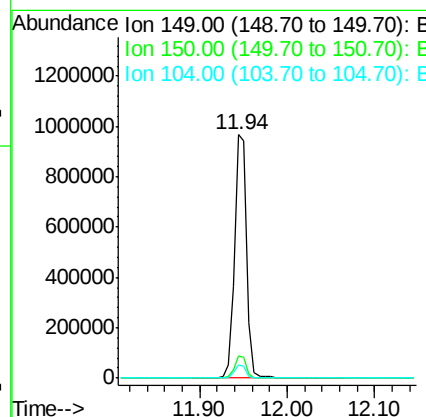
RT: 11.94 min Scan# 1676

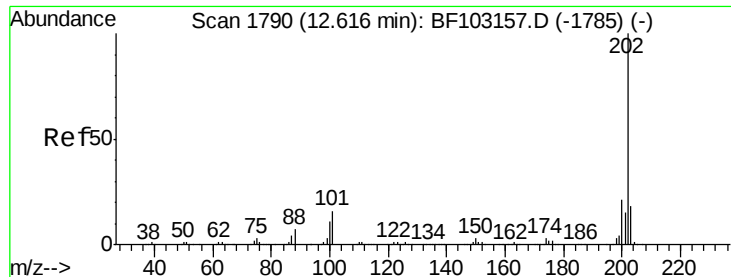
Delta R.T. -0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 919392 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 9.3   | 7.8   | 11.6   |
| 104       | 5.4   | 3.8   | 5.8    |





#74

Fluoranthene

Concen: 49.981 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

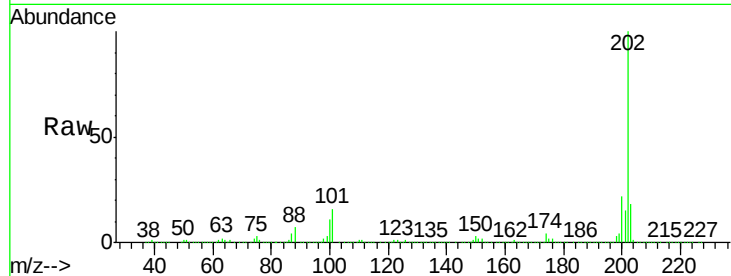
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 865571 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 15.8  | 0.0   | 34.1   |
| 203       | 18.2  | 0.0   | 38.1   |

Manual Integrations  
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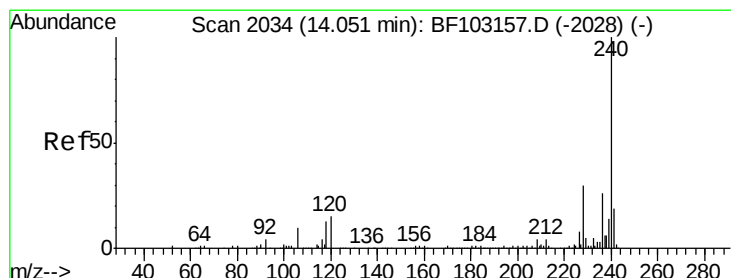
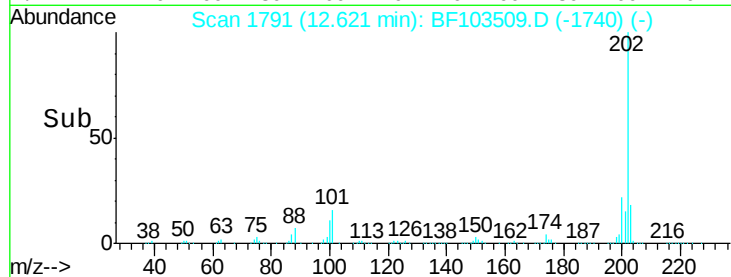
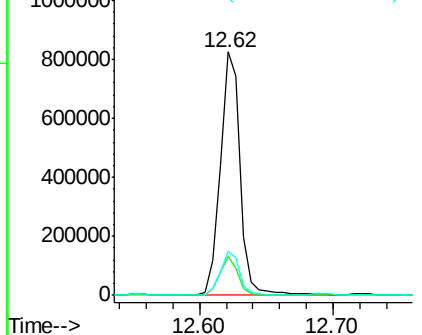
Sohil  
3/8/2018 4:43:09 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

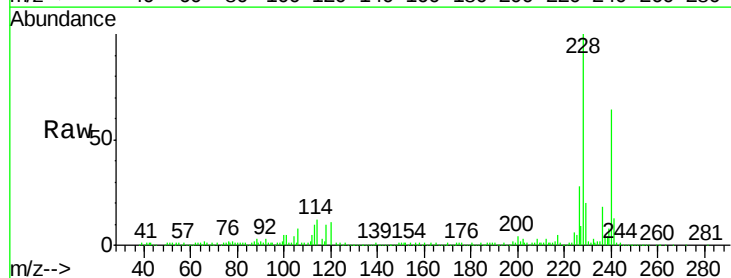
RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

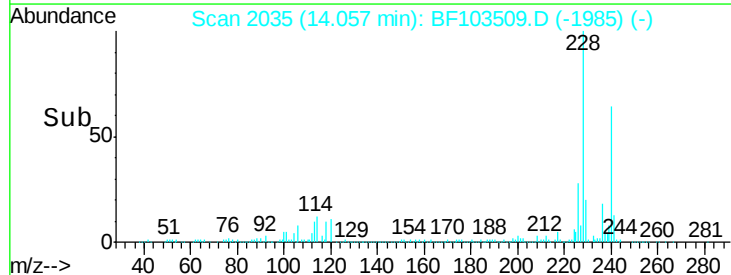
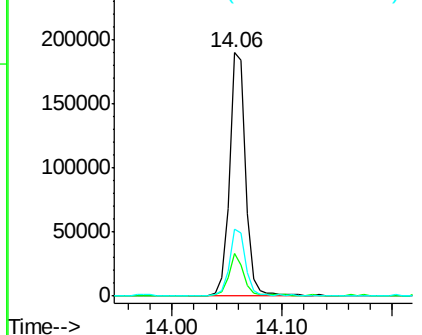
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 193585 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 17.5  | 9.5   | 14.3#  |
| 236       | 27.8  | 20.7  | 31.1   |

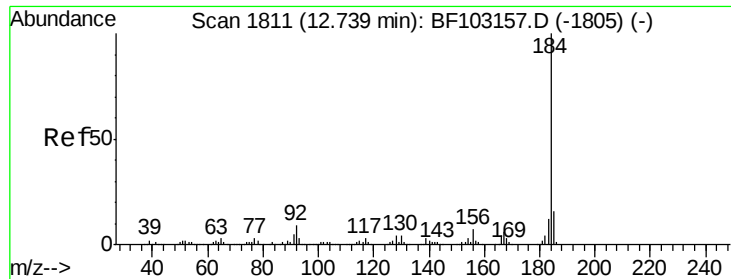


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





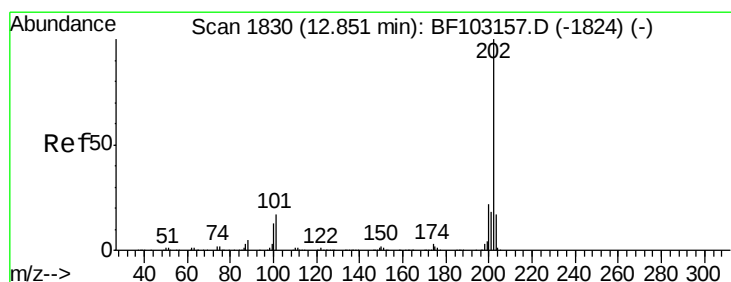
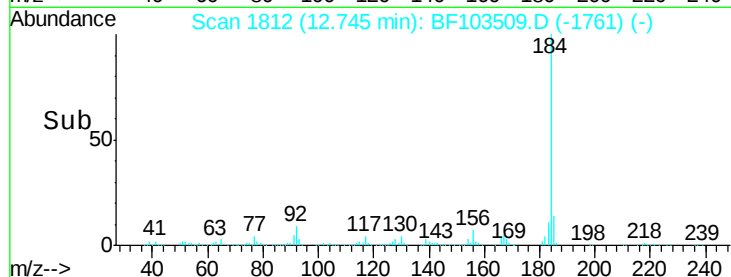
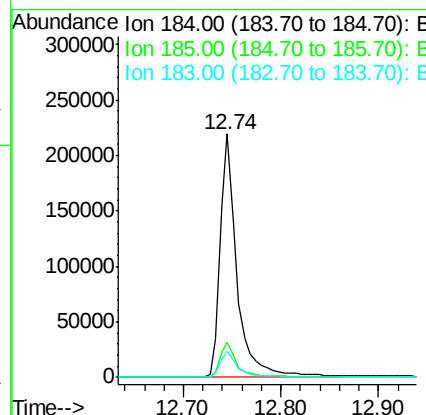
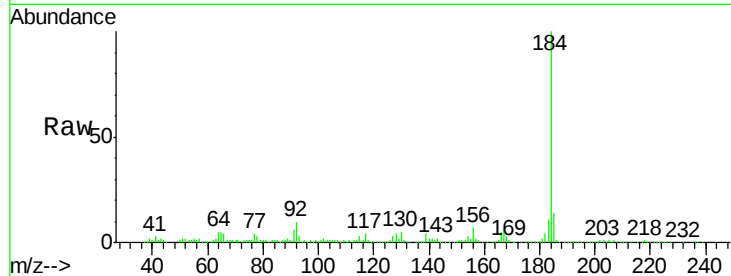
#76  
Benzidine  
Concen: 36.040 ng  
RT: 12.74 min Scan# 1812  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 14.4  | 12.6  | 18.8  |
| 183     | 10.7  | 9.3   | 13.9  |

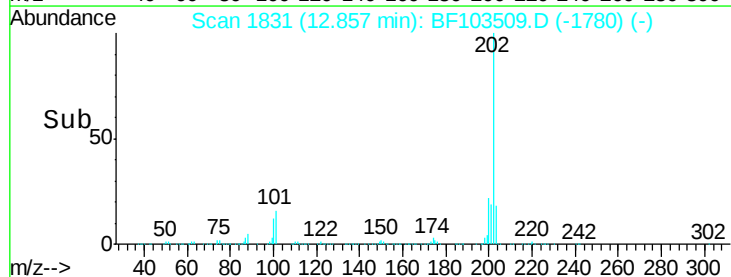
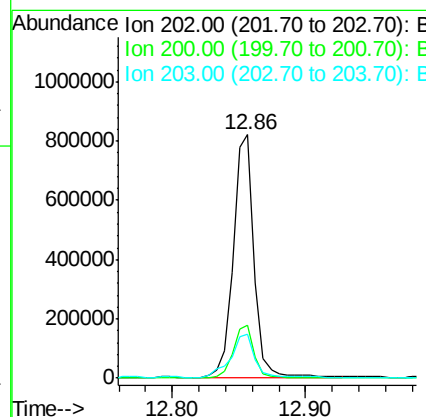
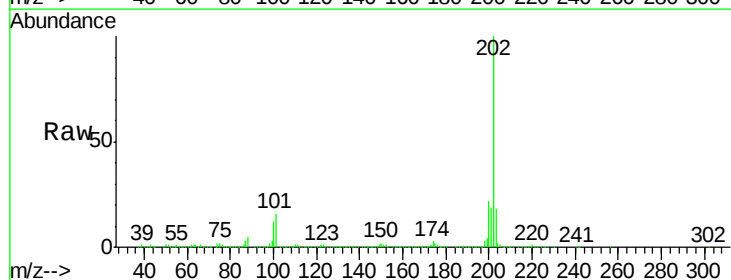
Manual Integrations  
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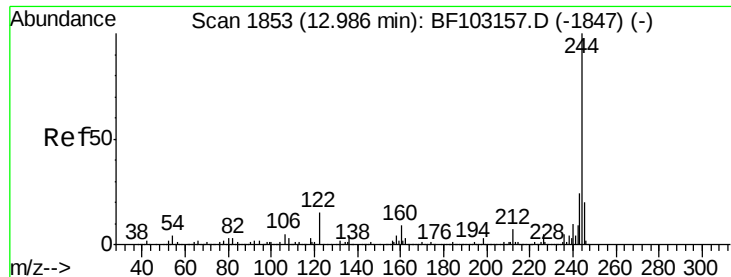
Sohil  
3/8/2018 4:43:09 PM



#77  
Pyrene  
Concen: 59.574 ng  
RT: 12.86 min Scan# 1831  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.7  | 17.4  | 26.2  |
| 203     | 18.2  | 14.3  | 21.5  |





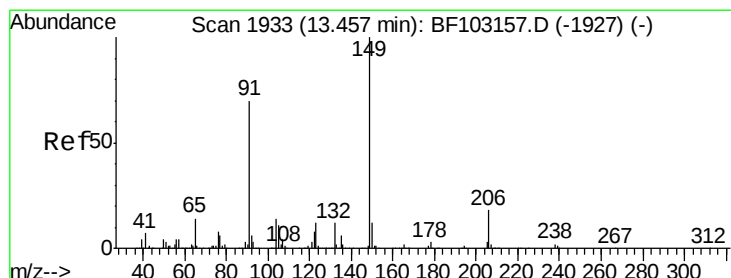
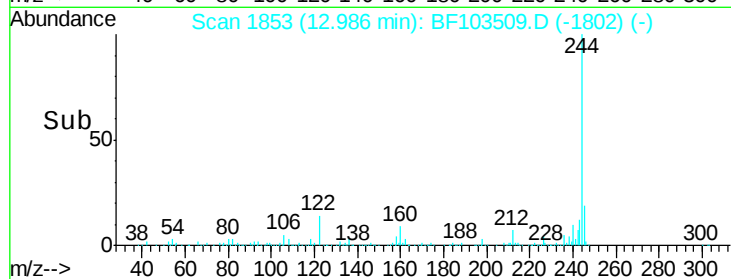
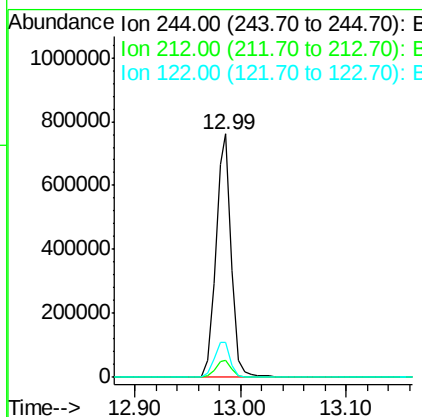
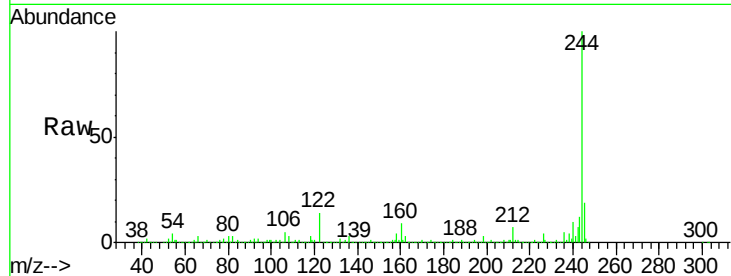
#78  
 Terphenyl-d14  
 Concen: 97.172 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.4   | 8.0   |
| 122     | 14.2  | 11.0  | 16.4  |

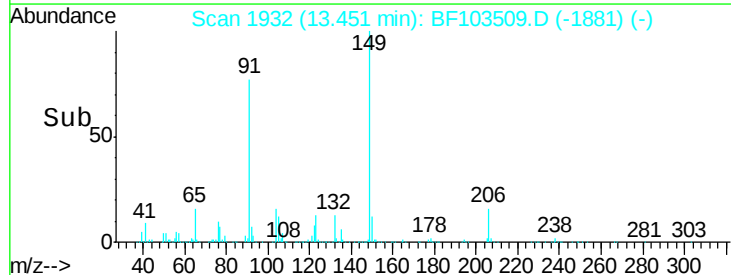
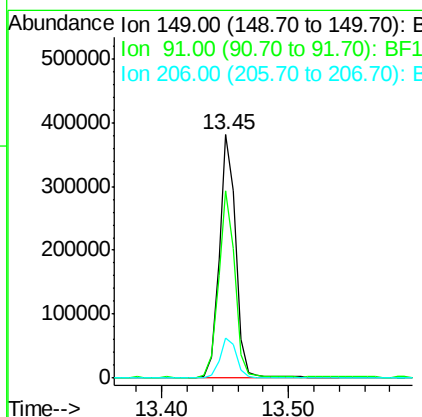
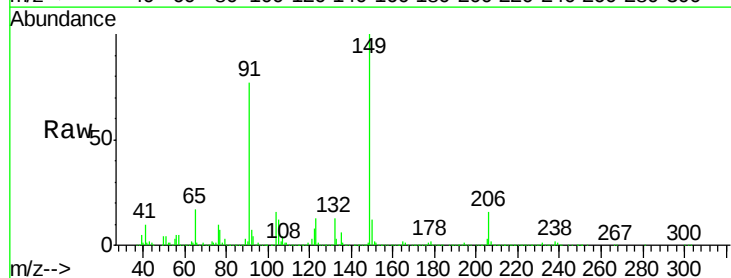
Manual Integrations  
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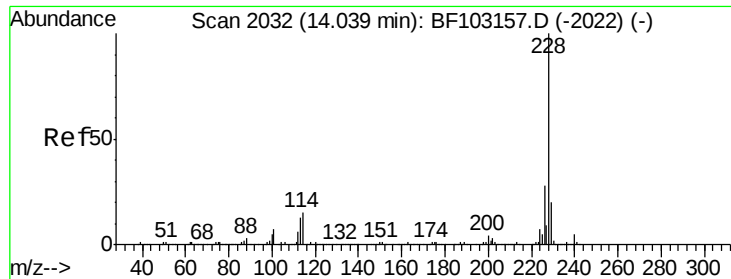
Sohil  
 3/8/2018 4:43:09 PM



#79  
 Butylbenzylphthalate  
 Concen: 43.180 ng  
 RT: 13.45 min Scan# 1932  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 77.0  | 56.8  | 85.2  |
| 206     | 16.3  | 14.1  | 21.1  |





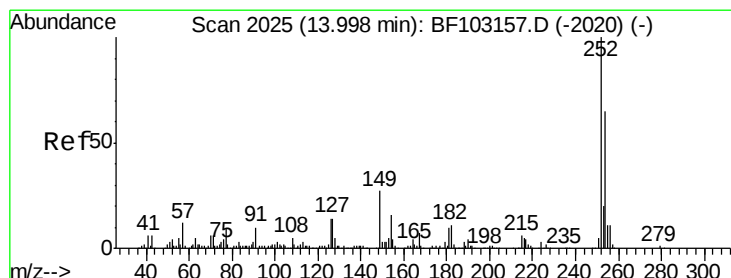
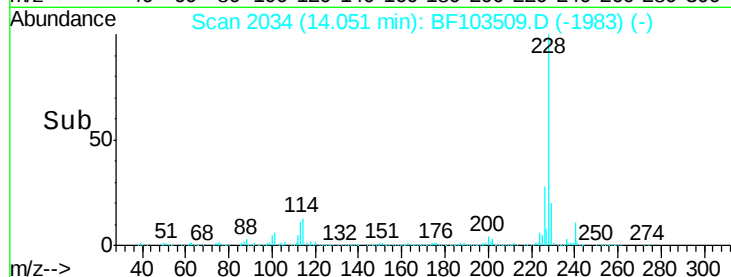
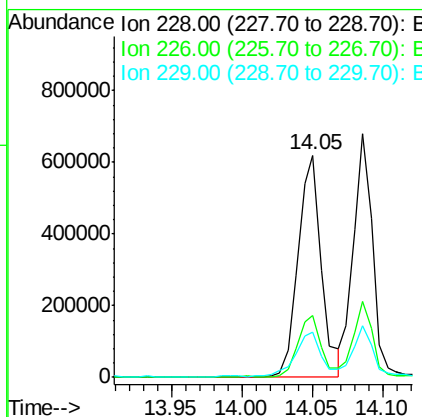
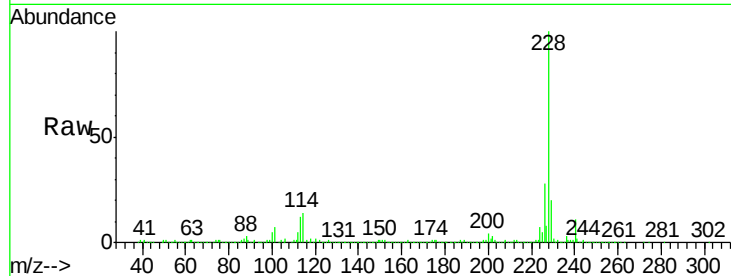
#80  
Benzo(a)anthracene  
Concen: 56.150 ng  
RT: 14.05 min Scan# 2034  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.0  | 22.6  | 33.8  |
| 229     | 20.2  | 15.8  | 23.6  |

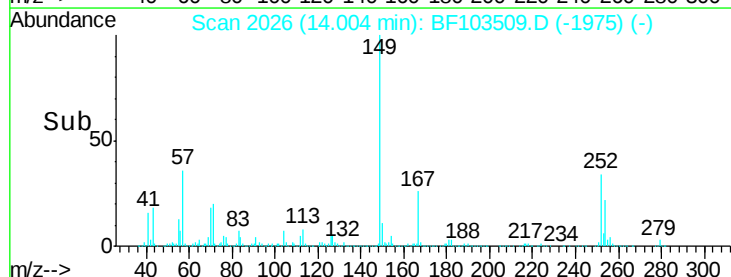
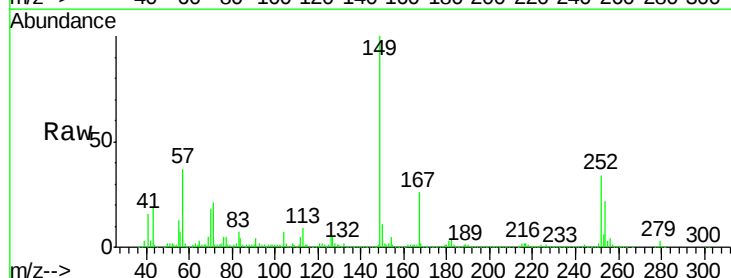
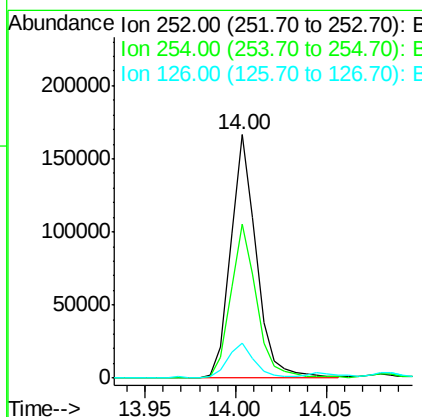
Manual Integrations  
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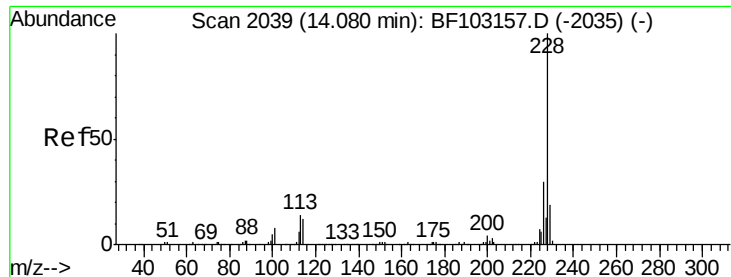
Sohil  
3/8/2018 4:43:09 PM



#81  
3,3'-Dichlorobenzidine  
Concen: 36.265 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 63.4  | 50.4  | 75.6  |
| 126     | 14.2  | 11.3  | 16.9  |





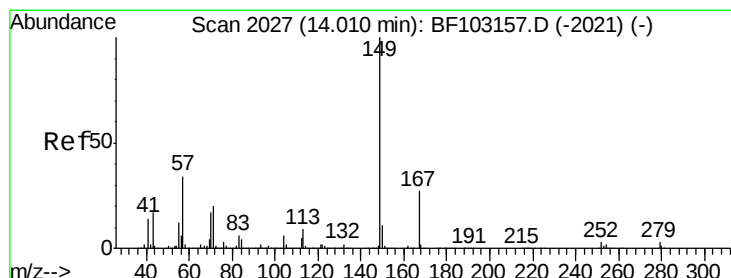
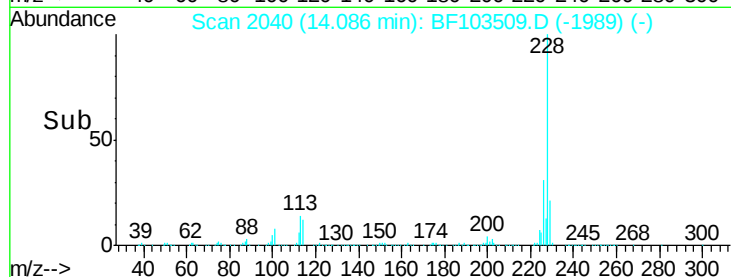
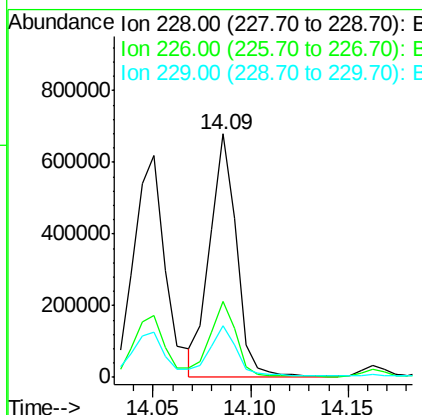
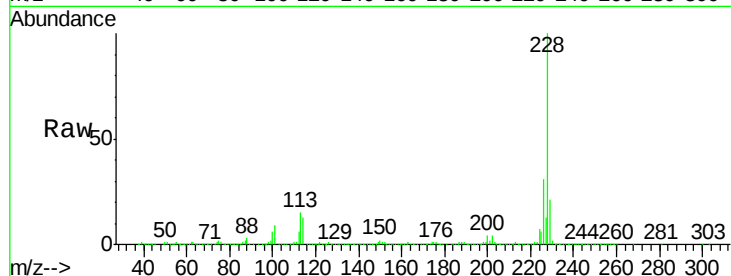
#82  
 Chrysene  
 Concen: 53.194 ng  
 RT: 14.09 min Scan# 2040  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 25.0  | 37.6  |
| 229     | 21.0  | 16.2  | 24.4  |

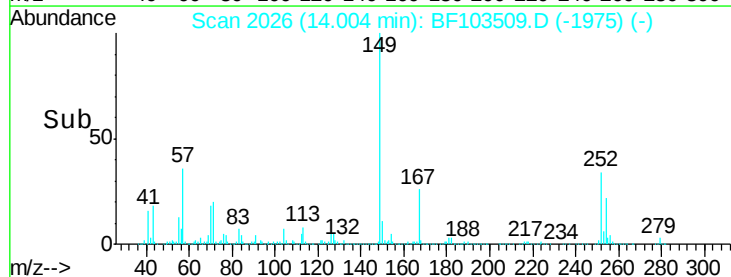
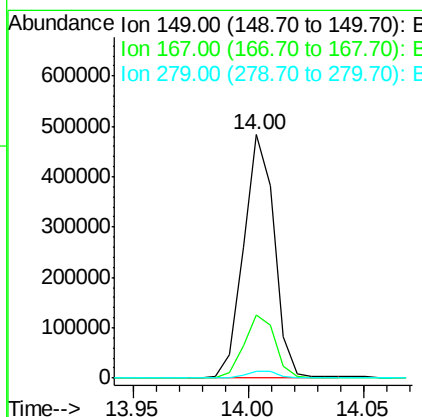
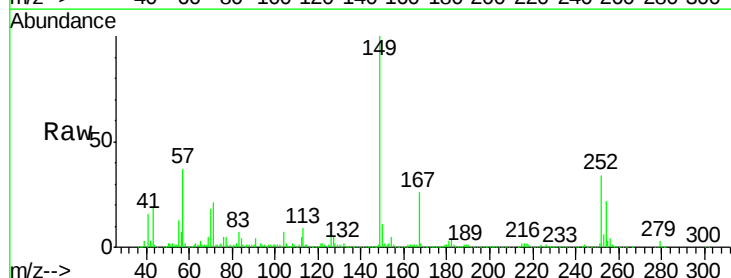
Manual Integrations  
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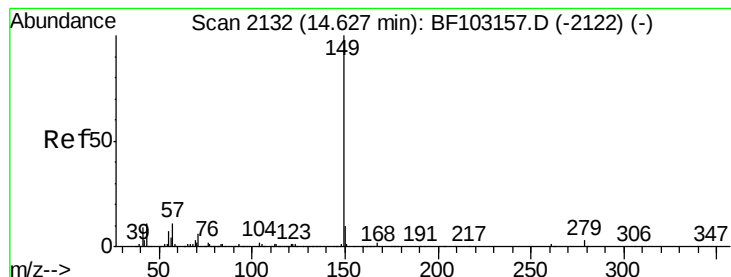
Sohil  
 3/8/2018 4:43:09 PM



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 41.667 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. -0.00 min  
 Lab File: BF103509.D  
 Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.2  | 21.3  | 31.9  |
| 279     | 2.8   | 3.0   | 4.4#  |





#84

Di-n-octyl phthalate

Concen: 45.529 ng

RT: 14.63 min Scan# 2132

Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

Instrument :

BNA\_F

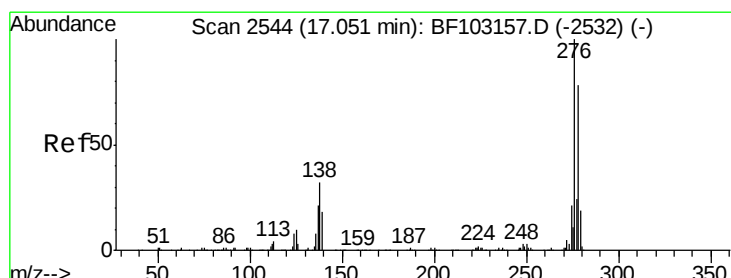
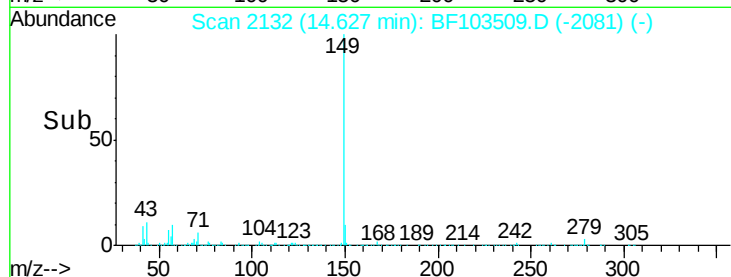
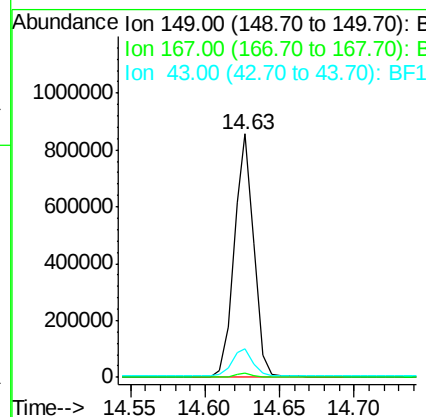
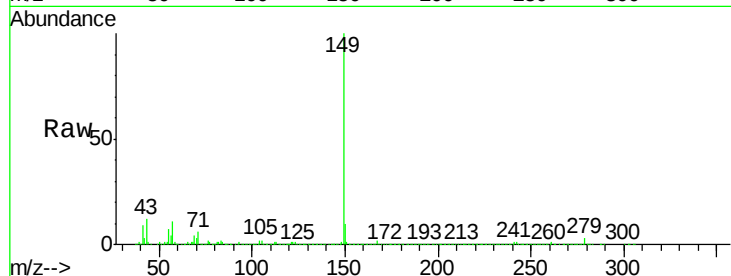
ClientSampleId :

SB-04-9.5-11MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 791582 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 1.6   | 1.2   | 1.8    |
| 43        | 12.0  | 8.4   | 12.6   |

Manual Integrations  
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Sohil  
3/8/2018 4:43:09 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 46.348 ng

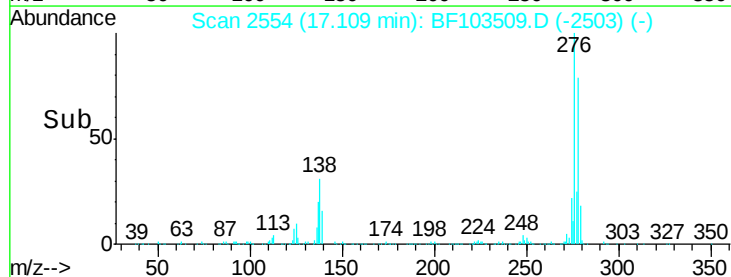
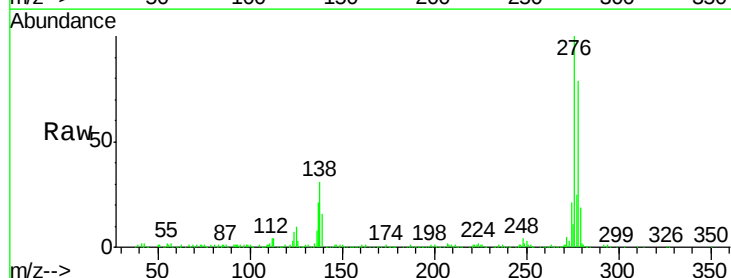
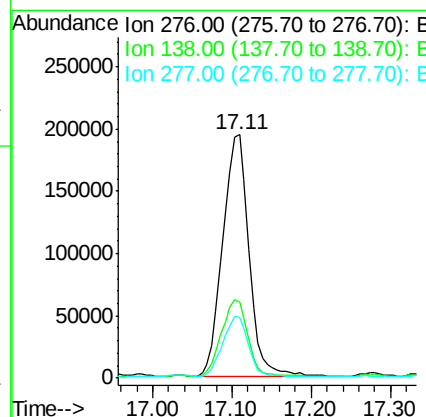
RT: 17.11 min Scan# 2554

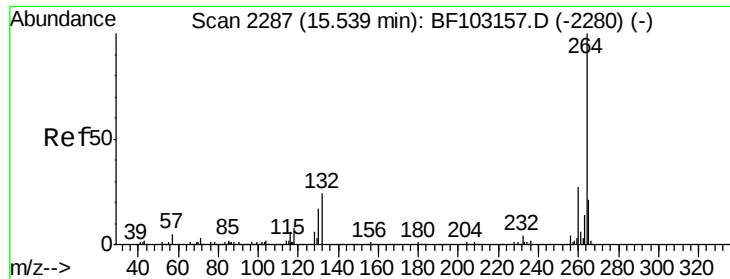
Delta R.T. -0.00 min

Lab File: BF103509.D

Acq: 7 Mar 2018 18:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 447498 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 32.6  | 25.0  | 37.6   |
| 277       | 24.6  | 20.1  | 30.1   |





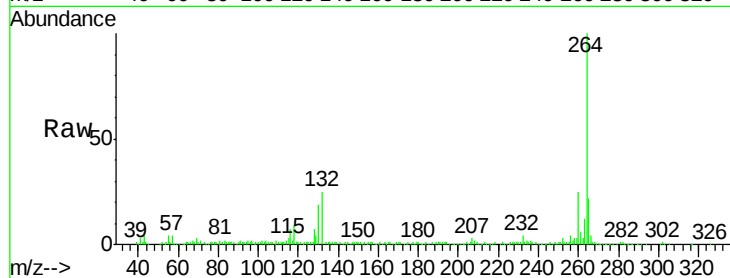
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.56 min Scan# 2291  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

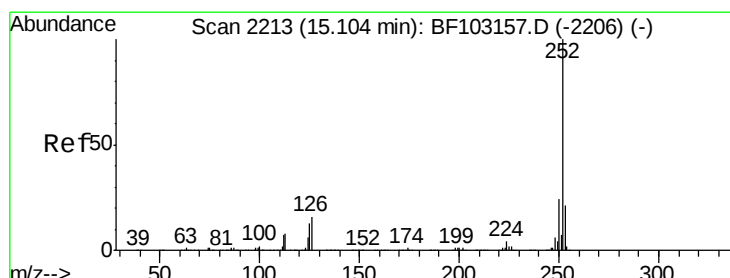
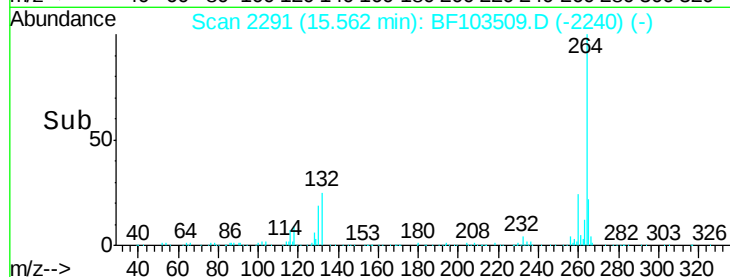
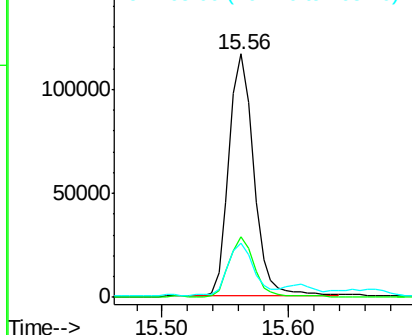
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.2  | 28.8  |
| 265     | 22.5  | 17.5  | 26.3  |

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3/8/2018 4:43:09 PM

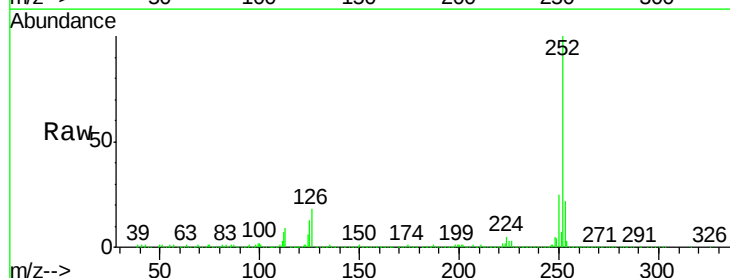


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

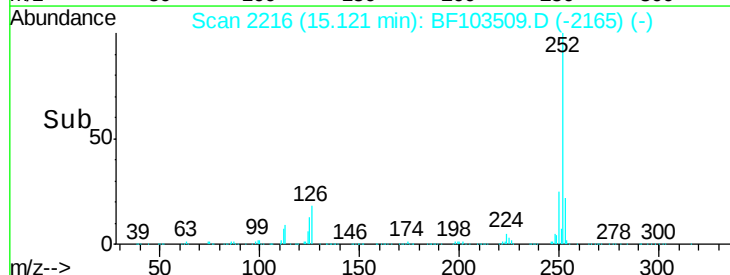
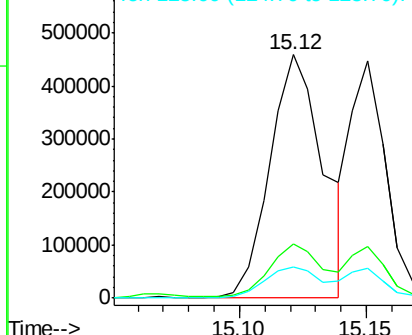


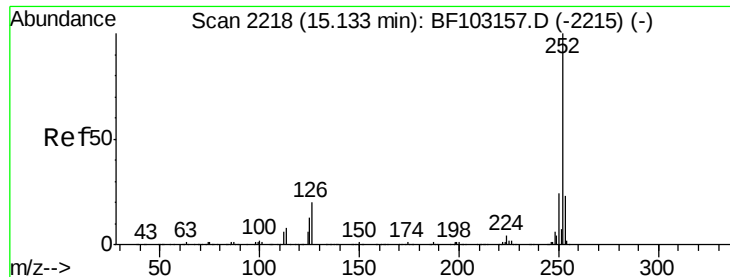
#87  
Benzo(b)fluoranthene  
Concen: 64.080 ng  
RT: 15.12 min Scan# 2216  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 17.0  | 25.6  |
| 125     | 12.9  | 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





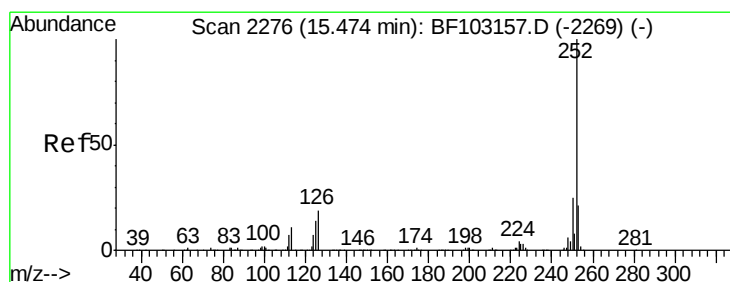
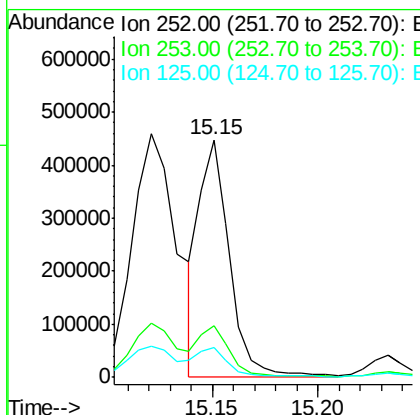
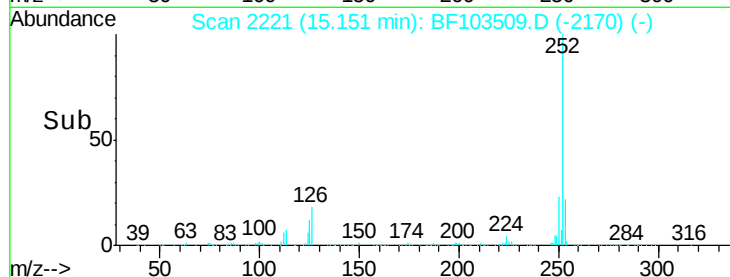
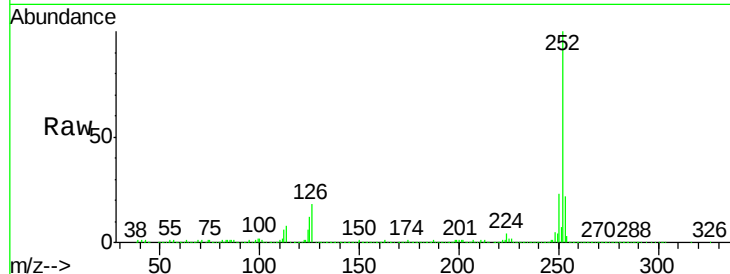
#88  
Benzo(k)fluoranthene  
Concen: 45.103 ng  
RT: 15.15 min Scan# 2221  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.9  | 26.9  |
| 125     | 12.5  | 10.2  | 15.2  |

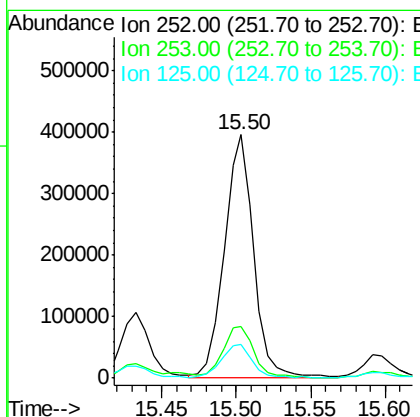
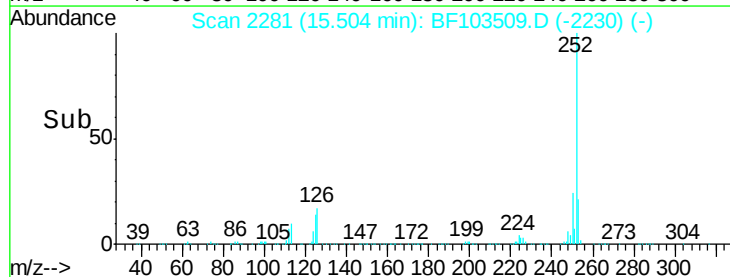
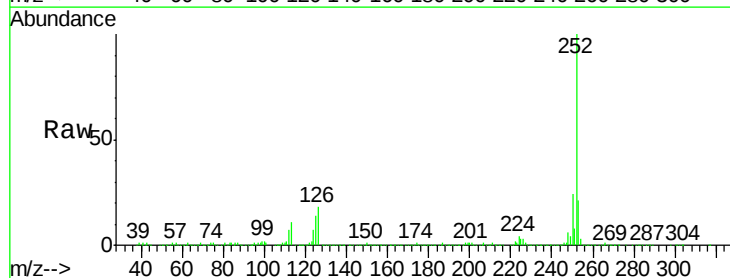
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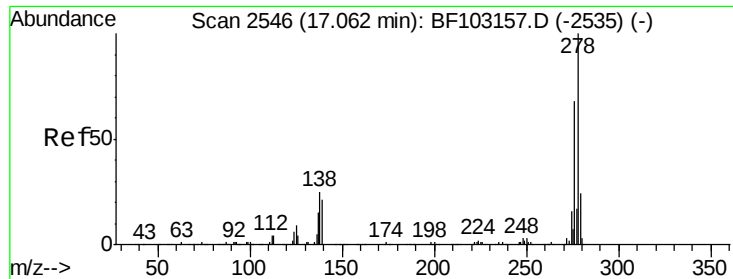
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#89  
Benzo(a)pyrene  
Concen: 57.674 ng  
RT: 15.50 min Scan# 2281  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 17.1  | 25.7  |
| 125     | 13.8  | 9.8   | 14.6  |





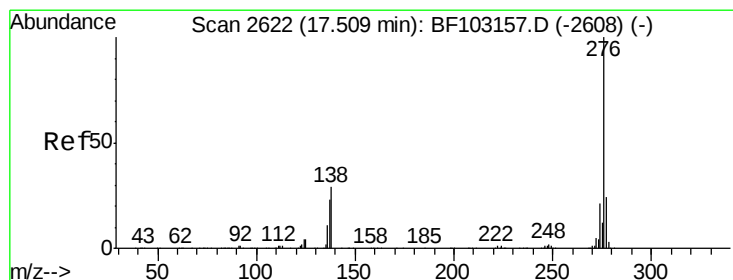
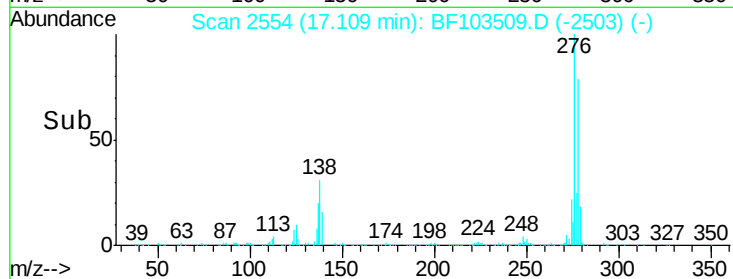
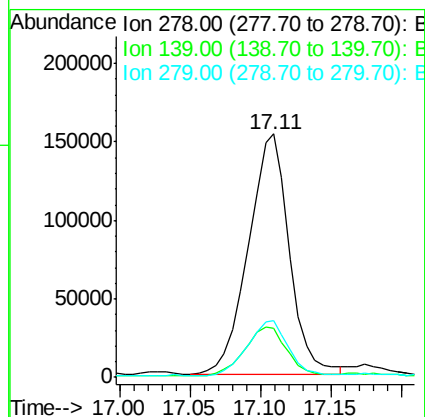
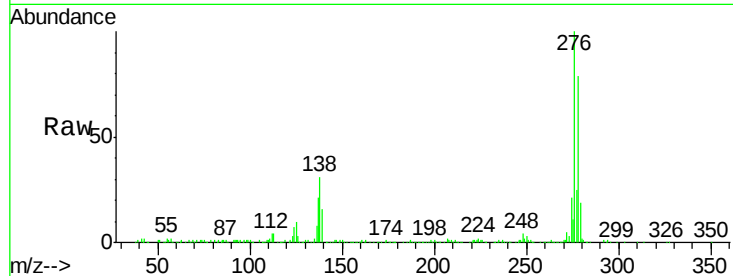
#90  
Dibenzo(a,h)anthracene  
Concen: 43.074 ng  
RT: 17.11 min Scan# 2554  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

Instrument :  
BNA\_F  
ClientSampleId :  
SB-04-9.5-11MSD

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:278 | Resp: | 311249    |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 20.4  | 15.9 23.9 |
| 279         | 23.4  | 19.0 28.4 |

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3/8/2018 4:43:09 PM



#91  
Benzo(g,h,i)perylene  
Concen: 56.500 ng  
RT: 17.57 min Scan# 2633  
Delta R.T. -0.00 min  
Lab File: BF103509.D  
Acq: 7 Mar 2018 18:53

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:276 | Resp: | 399020    |
| Ion Ratio   | Lower | Upper     |
| 276         | 100   |           |
| 277         | 23.6  | 17.9 26.9 |
| 138         | 29.2  | 21.8 32.8 |

