

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\  
 Data File : VN051759.D  
 Acq On : 9 Oct 2018 19:46  
 Operator : MD\SY  
 Sample : VN1009WBSD02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 10/10/2018 10:50:24 AM

Quant Time: Oct 10 04:25:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N100418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 06:03:49 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 610600   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 932527   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 865630   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 431849   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 400523   | 49.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.30%  |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 367240   | 50.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.88% |      |
| 50) Toluene-d8            | 10.09  | 98  | 1374624  | 51.11 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.22% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 447784   | 47.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.06%  |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 158465  | 21.424  | ug/l   | 100    |
| 3) Chloromethane              | 2.06 | 50  | 134443  | 19.294  | ug/l   | 98     |
| 4) Vinyl Chloride             | 2.18 | 62  | 201640  | 18.370  | ug/l   | 99     |
| 5) Bromomethane               | 2.56 | 94  | 175930  | 20.841  | ug/l   | 100    |
| 6) Chloroethane               | 2.70 | 64  | 139408  | 18.897  | ug/l   | 99     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 342164  | 29.384  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 68534   | 21.426  | ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 127862  | 20.958  | ug/l   | 99     |
| 10) Methyl Iodide             | 3.95 | 142 | 146440  | 19.643  | ug/l   | 99     |
| 11) Tert butyl alcohol        | 4.80 | 59  | 55365   | 100.994 | ug/l # | 90     |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 116764  | 20.534  | ug/l   | 95     |
| 13) Acrolein                  | 3.61 | 56  | 24725   | 62.259  | ug/l   | 94     |
| 14) Allyl chloride            | 4.33 | 41  | 150967  | 17.407  | ug/l   | 96     |
| 15) Acrylonitrile             | 5.00 | 53  | 188620  | 99.708  | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43  | 134088  | 86.944  | ug/l   | 95     |
| 17) Carbon Disulfide          | 4.05 | 76  | 301740  | 17.457  | ug/l   | 98     |
| 18) Methyl Acetate            | 4.33 | 43  | 98399   | 22.101  | ug/l   | 94     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 369415  | 19.682  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.55 | 84  | 131045  | 19.746  | ug/l   | 97     |
| 21) trans-1,2-Dichloroethene  | 5.05 | 96  | 127258  | 18.886  | ug/l   | 90     |
| 22) Diisopropyl ether         | 5.96 | 45  | 338059  | 18.184  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.90 | 43  | 1229978 | 89.979  | ug/l   | 97     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 224619  | 18.786  | ug/l   | 97     |
| 25) 2-Butanone                | 6.85 | 43  | 215584  | 92.555  | ug/l   | 99     |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 198390  | 16.558  | ug/l   | 98     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 153157  | 19.579  | ug/l   | 94     |
| 28) Bromochloromethane        | 7.20 | 49  | 100681  | 19.020  | ug/l   | 90     |
| 29) Tetrahydrofuran           | 7.22 | 42  | 146096  | 102.209 | ug/l   | 97     |
| 30) Chloroform                | 7.37 | 83  | 259191  | 19.294  | ug/l   | 97     |
| 31) Cyclohexane               | 7.66 | 56  | 197827  | 18.066  | ug/l   | 90     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 248842  | 19.111  | ug/l   | 98     |
| 36) 1,1-Dichloropropene       | 7.80 | 75  | 183510  | 18.827  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.93 | 43  | 101482  | 19.962  | ug/l   | 98     |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 221589  | 18.946  | ug/l   | 99     |

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 Sample : VN1009WBSD02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1009WBSD02

Manual Integrations  
 APPROVED

MMDadoda  
 10/10/2018 10:50:24 AM

Quant Time: Oct 10 04:25:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N100418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 09 06:03:49 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 228515   | 18.676  | ug/l   | 97       |
| 40) Benzene                    | 8.05  | 78   | 554759   | 19.199  | ug/l   | 97       |
| 41) Methacrylonitrile          | 7.19  | 41   | 55324m   | 20.948  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 183372   | 18.831  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 200523   | 18.919  | ug/l   | 97       |
| 44) Trichloroethene            | 8.84  | 130  | 164700   | 20.074  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 133740   | 18.720  | ug/l   | 100      |
| 46) Dibromomethane             | 9.21  | 93   | 97600    | 19.655  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.40  | 83   | 202946   | 18.566  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 93699    | 19.347  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 31525    | 434.098 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 537996   | 100.170 | ug/l   | 98       |
| 52) Toluene                    | 10.16 | 92   | 370969   | 19.303  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 198750   | 17.620  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 211361   | 17.646  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 139175   | 20.329  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 166661   | 19.250  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 214470   | 19.793  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 347610   | 97.012  | ug/l   | 94       |
| 59) 2-Hexanone                 | 10.75 | 43   | 350119   | 95.989  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.90 | 129  | 168067   | 18.759  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 142301   | 19.662  | ug/l   | 98       |
| 64) Tetrachloroethene          | 10.63 | 164  | 158134   | 20.706  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.44 | 112  | 426684   | 19.902  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 168093   | 19.582  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 724629   | 19.555  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 571920   | 38.574  | ug/l   | 98       |
| 69) o-Xylene                   | 11.95 | 106  | 286185   | 19.682  | ug/l   | 97       |
| 70) Styrene                    | 11.97 | 104  | 438412   | 18.922  | ug/l   | 98       |
| 71) Bromoform                  | 12.13 | 173  | 111502   | 17.463  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.25 | 105  | 754457   | 20.495  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 159201   | 18.881  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 169497   | 21.544  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 137067m  | 23.358  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 185098   | 20.564  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.59 | 91   | 801832   | 19.970  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 482223   | 20.378  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 630861   | 20.335  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 42615    | 18.139  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 473184   | 19.905  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 587568   | 21.137  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 638782   | 20.557  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 755048   | 20.534  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 658776   | 20.209  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 318589   | 20.312  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 311948   | 20.206  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 499536   | 19.381  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 118588   | 18.233  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 324002   | 20.780  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 26678    | 20.630  | ug/l   | 93       |

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Sample : VN1009WBSD02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 18 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

Manual Integrations  
APPROVED

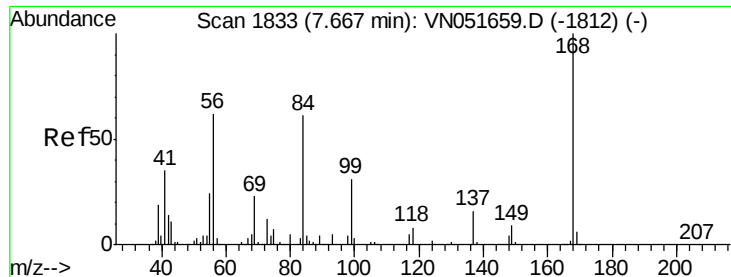
MMDadoda  
10/10/2018 10:50:24 AM

Quant Time: Oct 10 04:25:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N100418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Oct 09 06:03:49 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 143068   | 20.621 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 98521    | 20.929 | ug/l  | 98       |
| 95) Naphthalene            | 15.13 | 128  | 329925   | 22.020 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 153011   | 22.393 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion:168 Resp: 610600

Ion Ratio Lower Upper

168 100

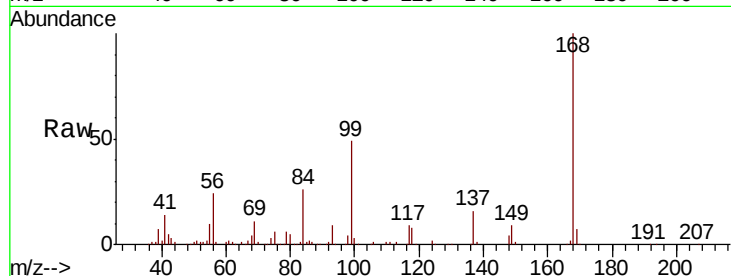
99 49.2 40.4 60.6

Manual Integrations

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10/10/2018 10:50:24 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

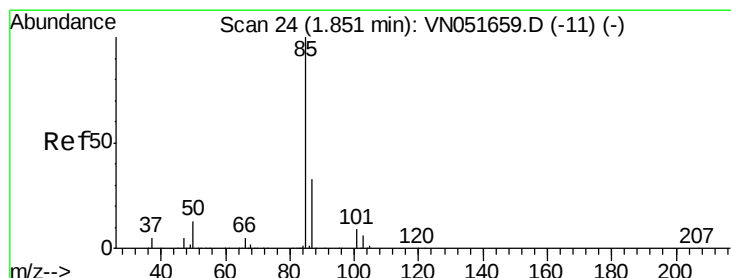
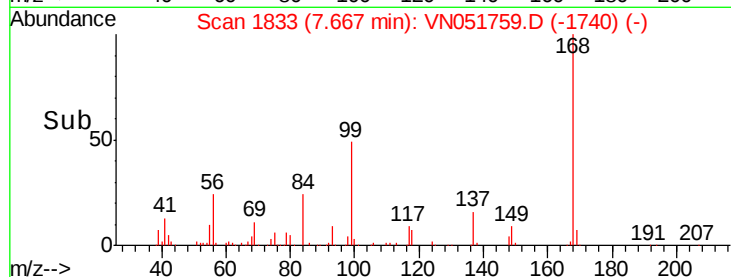
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.424 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051759.D

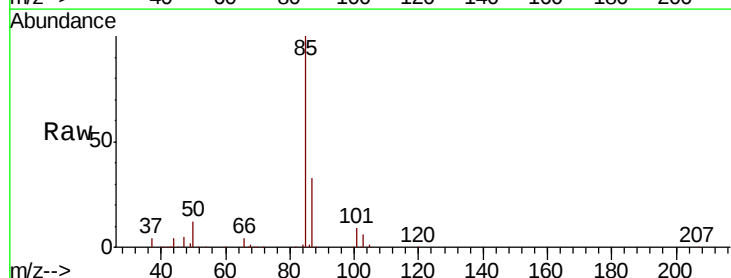
Acq: 9 Oct 2018 19:46

Tgt Ion: 85 Resp: 158465

Ion Ratio Lower Upper

85 100

87 32.7 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

120000

100000

80000

60000

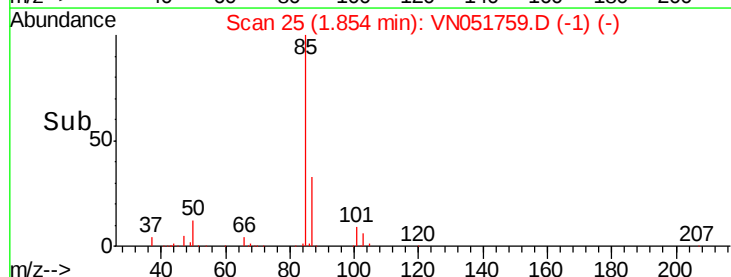
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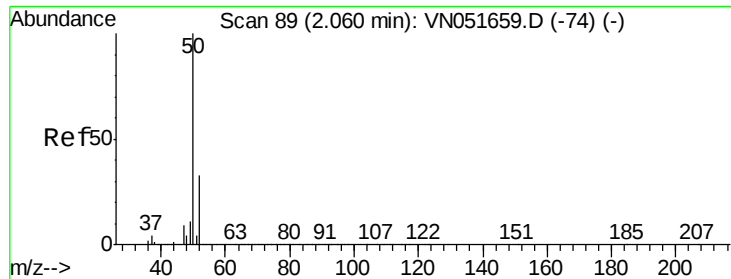
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.294 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 50 Resp: 134443

Ion Ratio Lower Upper

50 100

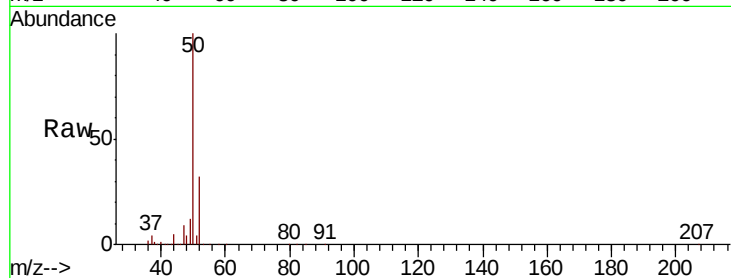
52 32.2 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

10/10/2018 10:50:24 AM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

120000

100000

80000

60000

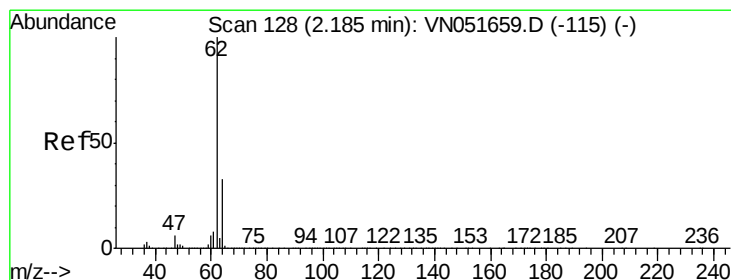
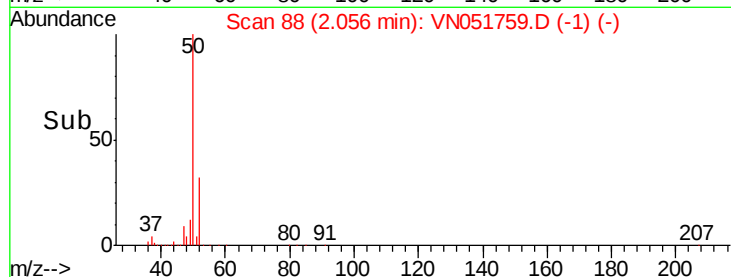
40000

20000

0

2.06

Time-->



#4

Vinyl Chloride

Concen: 18.370 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051759.D

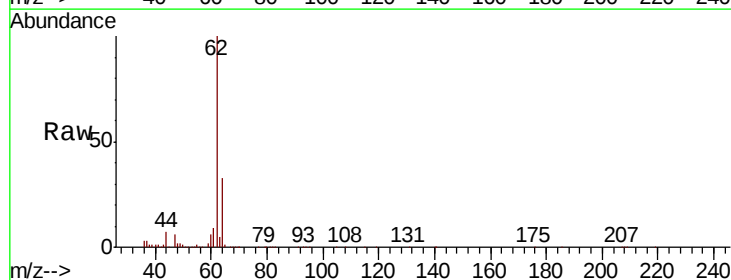
Acq: 9 Oct 2018 19:46

Tgt Ion: 62 Resp: 201640

Ion Ratio Lower Upper

62 100

64 33.2 26.2 39.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

150000

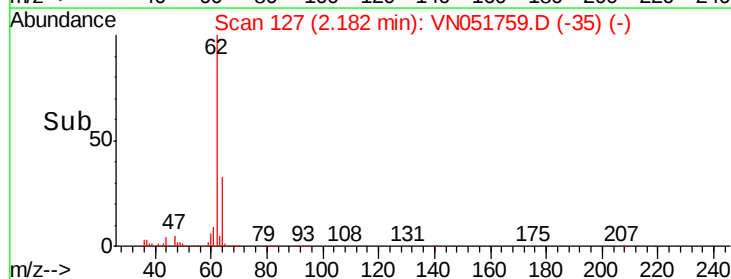
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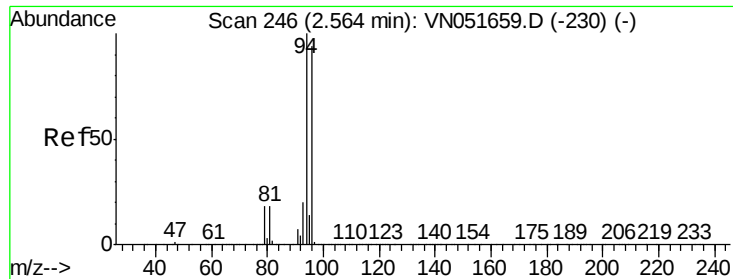
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0

2.18

Time-->





#5

Bromomethane

Concen: 20.841 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 94 Resp: 175930

Ion Ratio Lower Upper

94 100

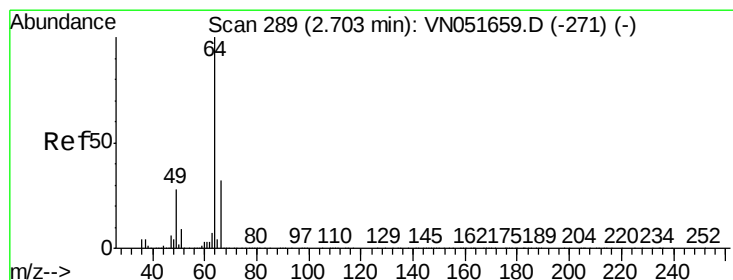
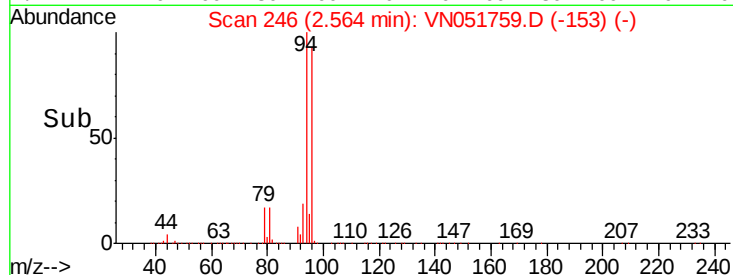
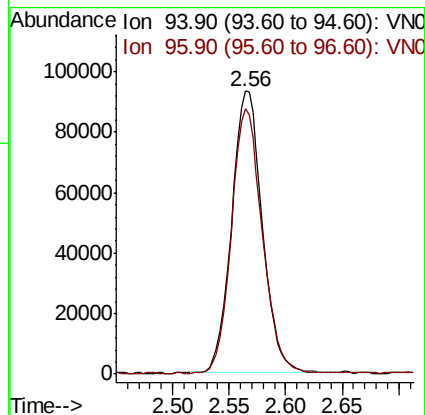
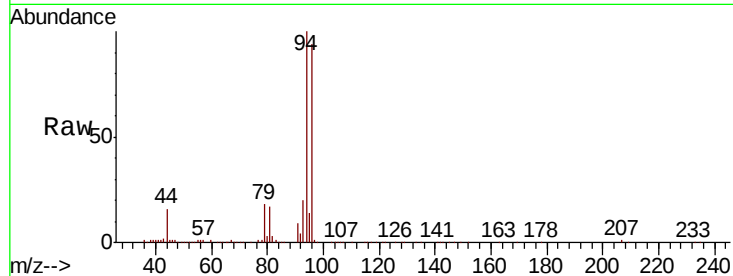
96 93.9 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

10/10/2018 10:50:24 AM



#6

Chloroethane

Concen: 18.897 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051759.D

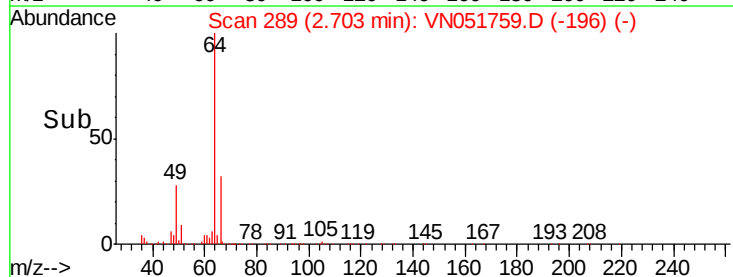
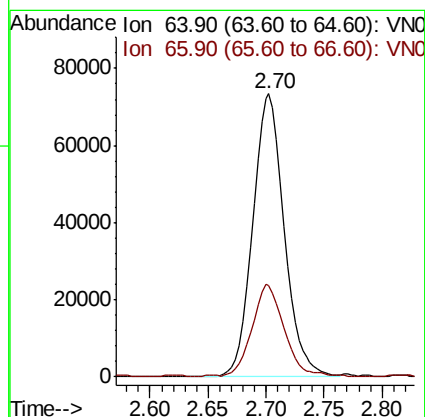
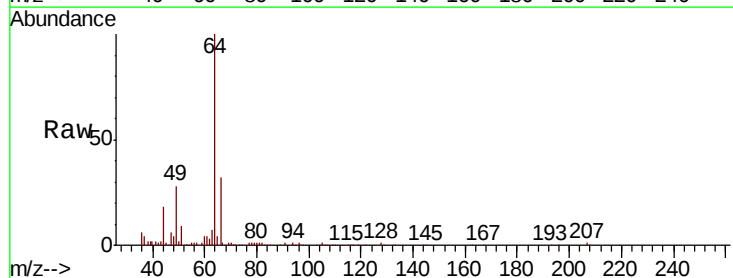
Acq: 9 Oct 2018 19:46

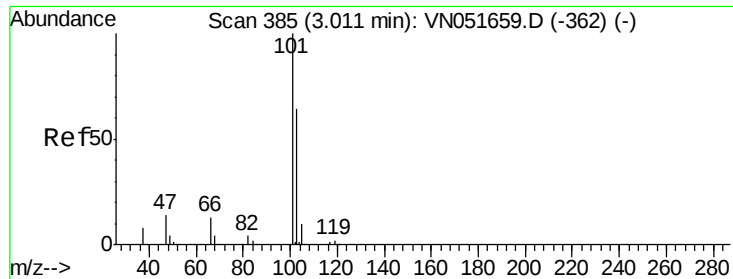
Tgt Ion: 64 Resp: 139408

Ion Ratio Lower Upper

64 100

66 32.0 26.0 39.0





#7

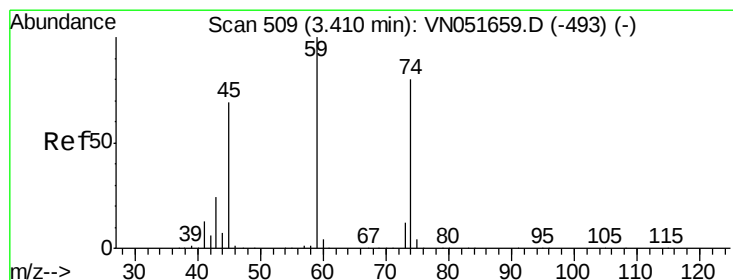
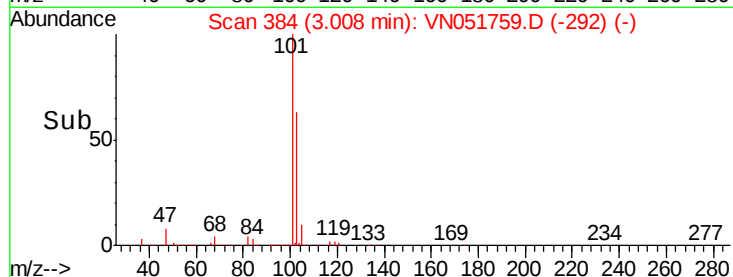
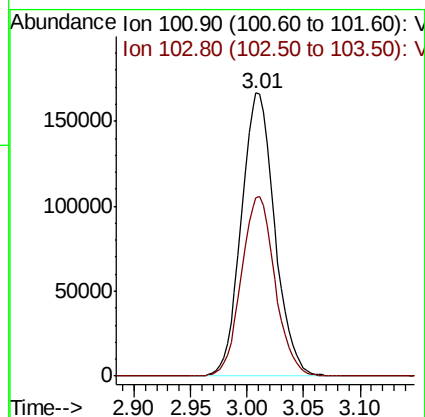
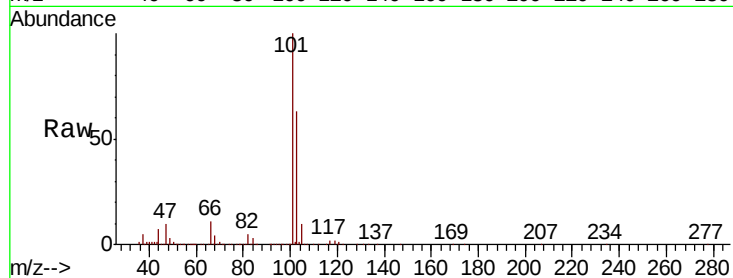
Trichlorofluoromethane  
Concen: 29.384 ug/l  
RT: 3.01 min Scan# 384  
Delta R.T. -0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 101     | 100  |       | 342164 |       |       |
| 103     | 62.8 | 51.1  | 76.7   |       |       |

Manual Integrations  
APPROVED

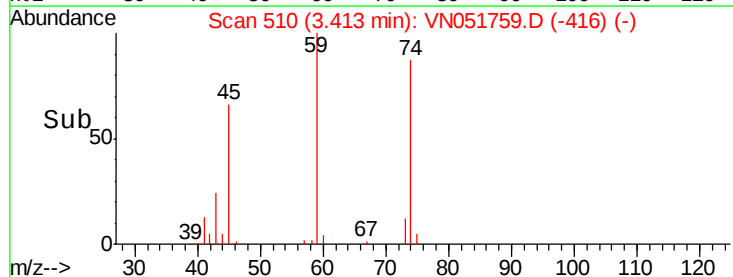
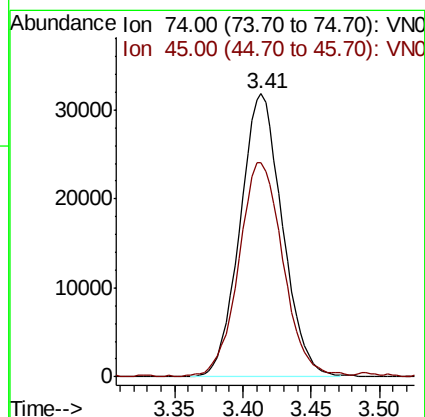
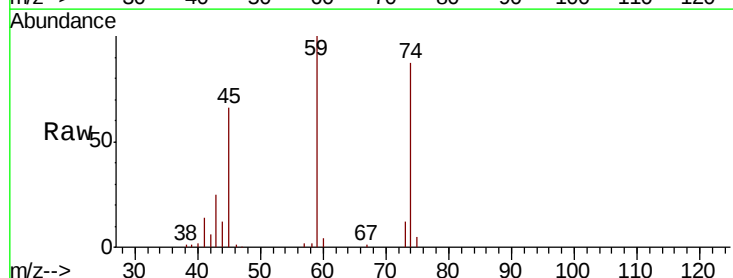
MMDadoda  
10/10/2018 10:50:24 AM

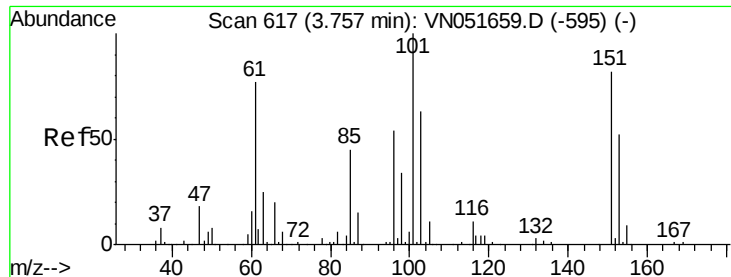


#8

Diethyl Ether  
Concen: 21.426 ug/l  
RT: 3.41 min Scan# 510  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 74      | 100  |       | 68534 |       |       |
| 45      | 79.5 | 44.3  | 132.9 |       |       |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.958 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

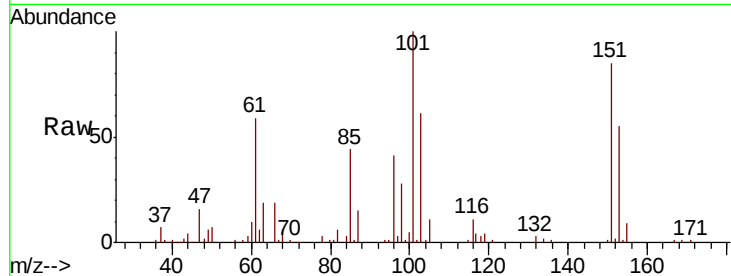
ClientSampleId :

VN1009WBSD02

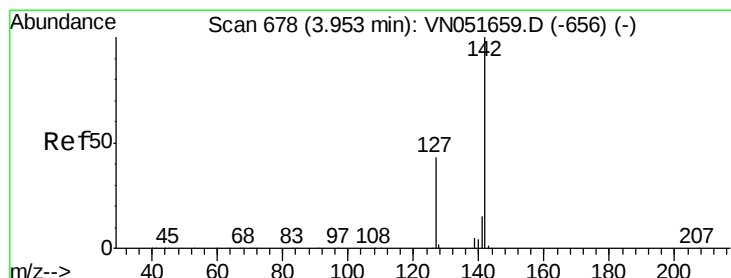
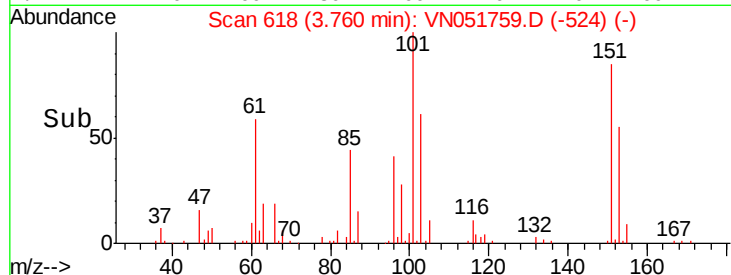
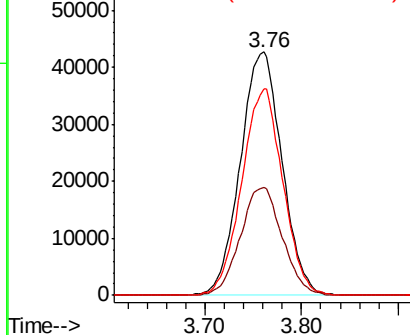
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 127862 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 44.5  | 35.6  | 53.4   |
| 151       | 83.6  | 65.5  | 98.3   |

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MMDadoda  
10/10/2018 10:50:24 AM



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.643 ug/l

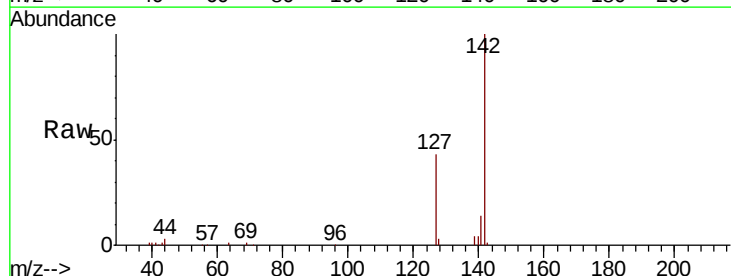
RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

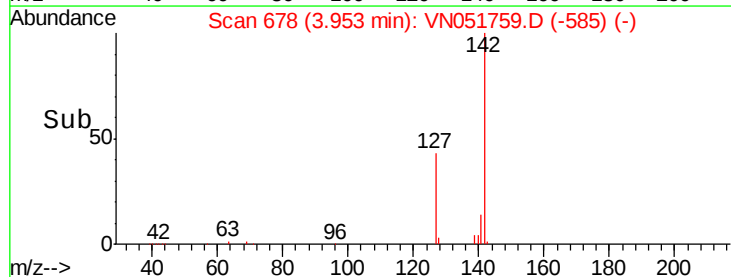
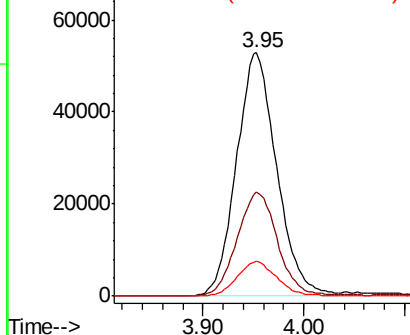
Lab File: VN051759.D

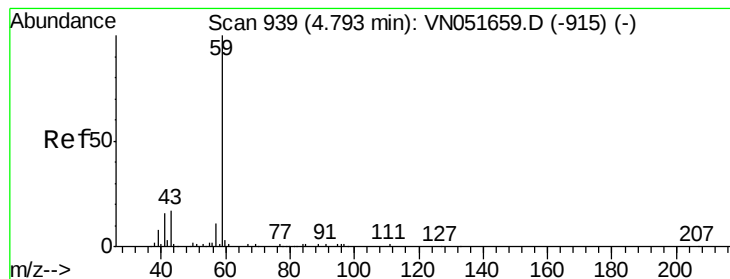
Acq: 9 Oct 2018 19:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 146440 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 42.8  | 34.7  | 52.1   |
| 141       | 14.0  | 11.4  | 17.2   |



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V





#11

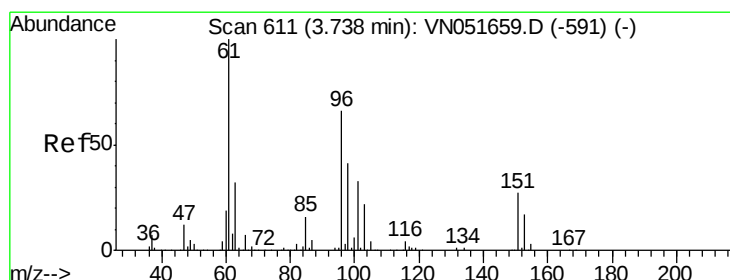
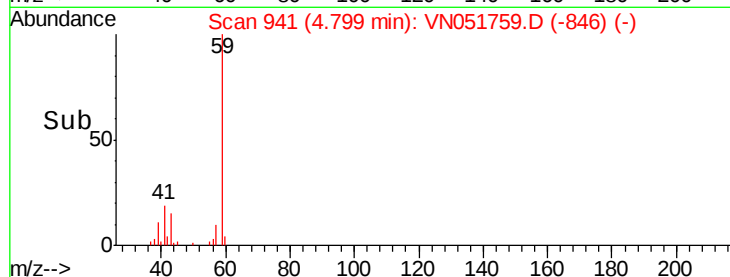
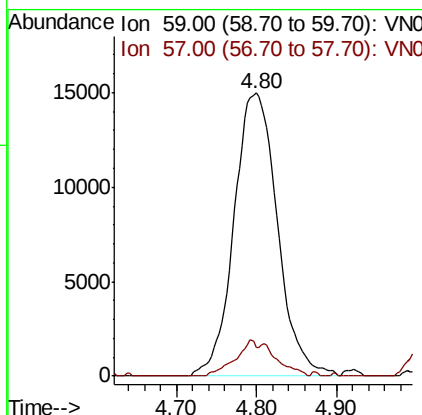
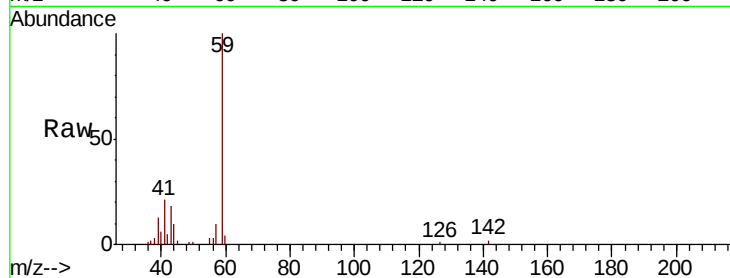
Tert butyl alcohol  
Concen: 100.994 ug/l  
RT: 4.80 min Scan# 941  
Delta R.T. 0.01 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 6.5   | 8.1   | 12.1# |

Manual Integrations  
APPROVED

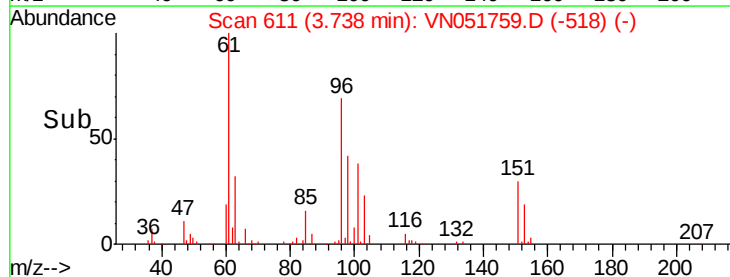
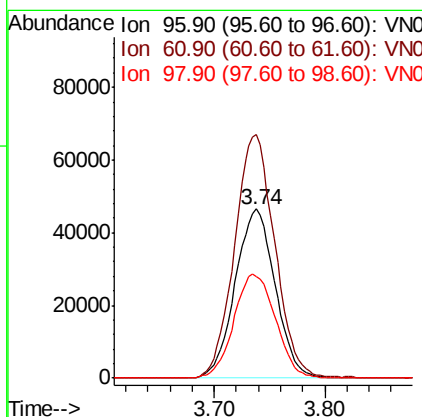
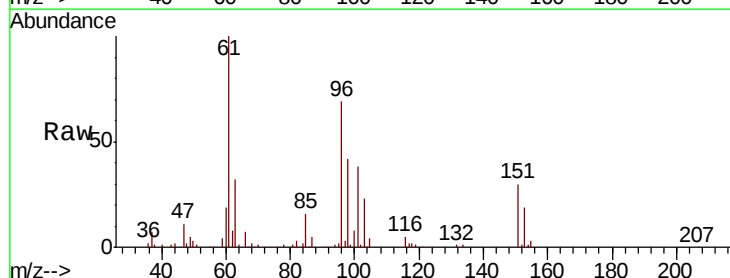
MMDadoda  
10/10/2018 10:50:24 AM

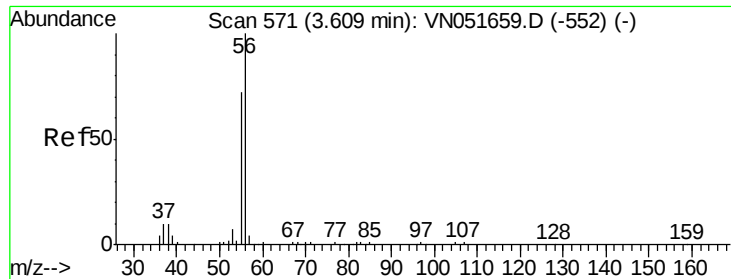


#12

1,1-Dichloroethene  
Concen: 20.534 ug/l  
RT: 3.74 min Scan# 611  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 144.2 | 121.4 | 182.0 |
| 98      | 60.5  | 49.9  | 74.9  |





#13

Acrolein

Concen: 62.259 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 56 Resp: 24725

Ion Ratio Lower Upper

56 100

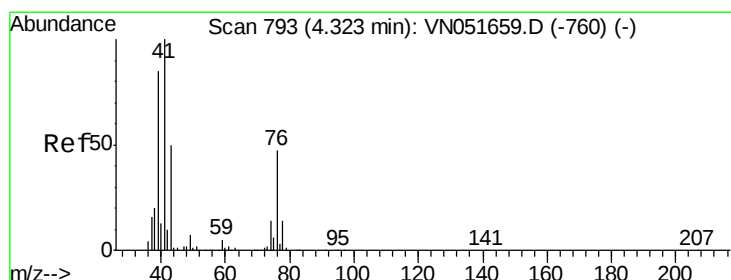
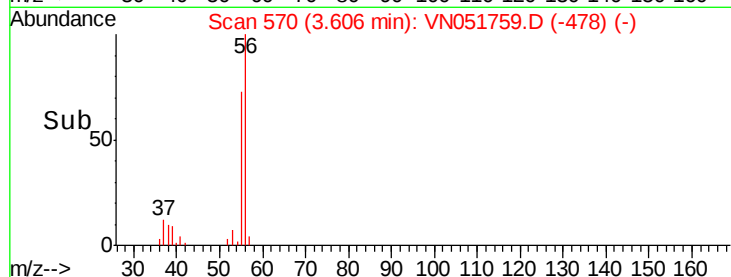
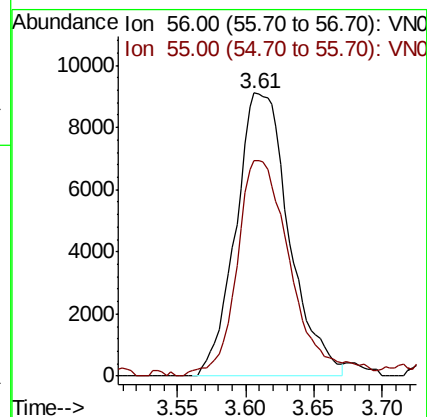
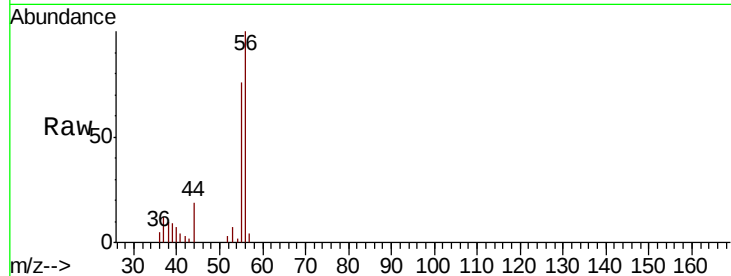
55 76.9 57.5 86.3

Manual Integrations

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MMDadoda

10/10/2018 10:50:24 AM



#14

Allyl chloride

Concen: 17.407 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

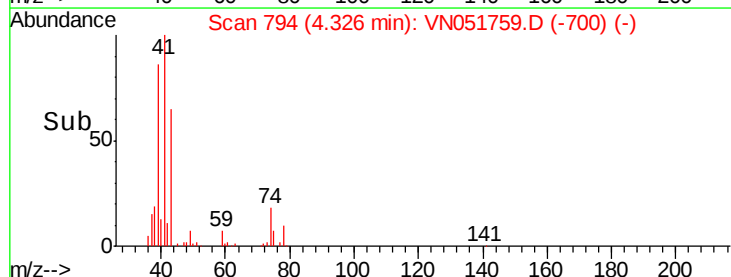
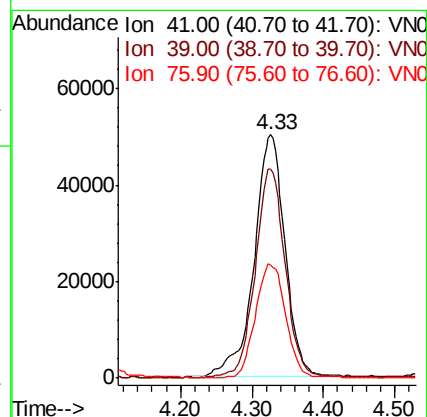
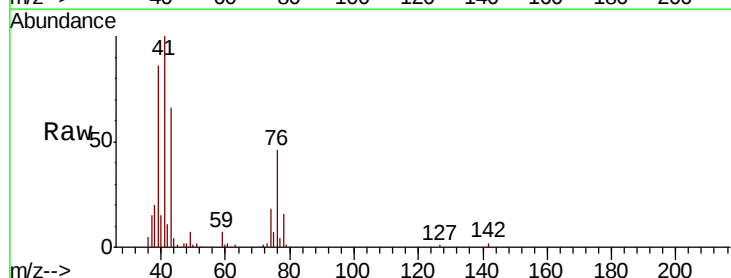
Tgt Ion: 41 Resp: 150967

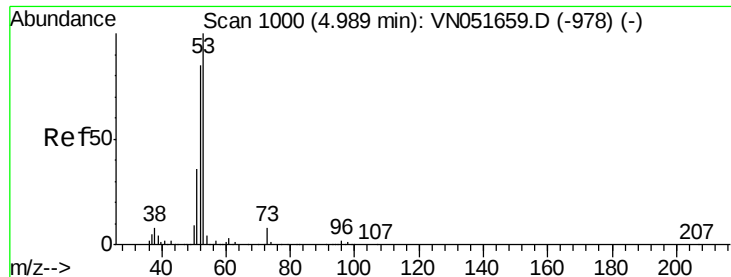
Ion Ratio Lower Upper

41 100

39 84.2 65.4 98.0

76 46.0 34.3 51.5





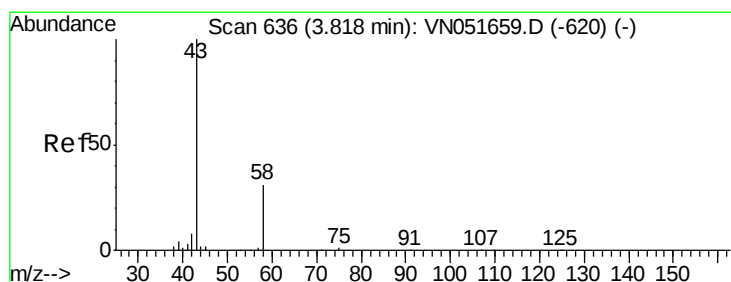
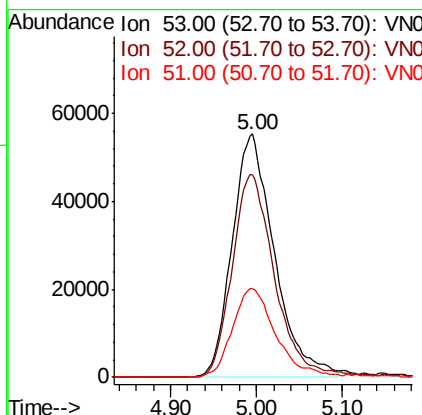
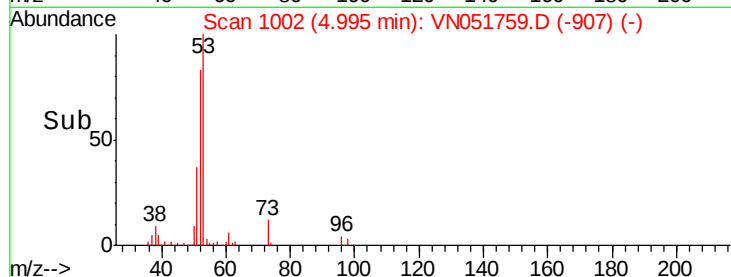
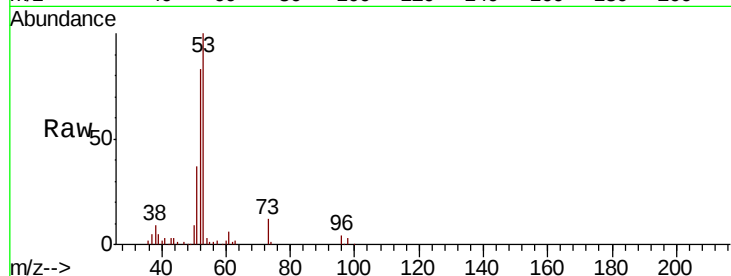
#15  
Acrylonitrile  
Concen: 99.708 ug/l  
RT: 5.00 min Scan# 1002  
Delta R.T. 0.01 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 53      | 100   |       |       |
| 52      | 83.8  | 66.2  | 99.2  |
| 51      | 37.5  | 30.3  | 45.5  |

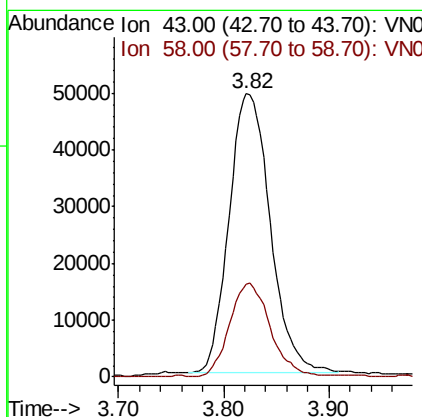
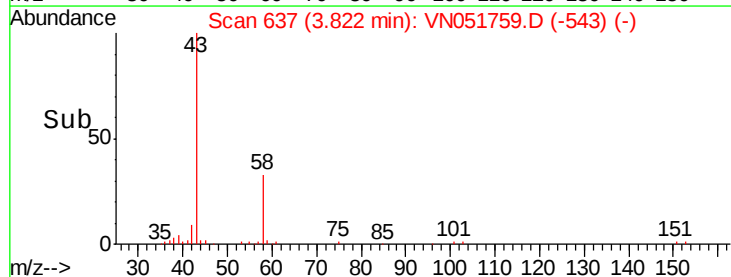
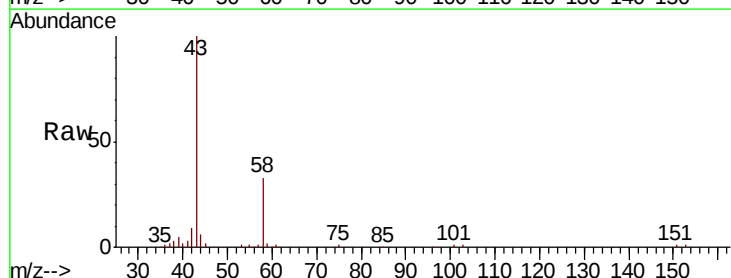
Manual Integrations  
APPROVED

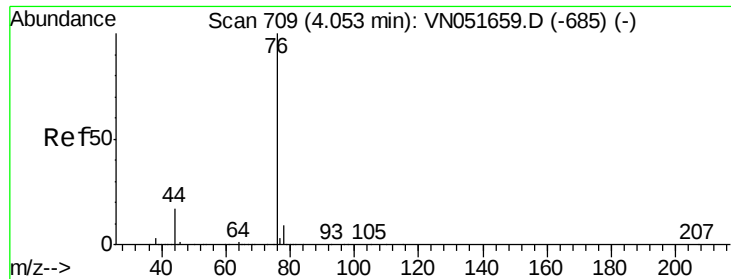
MMDadoda  
10/10/2018 10:50:24 AM



#16  
Acetone  
Concen: 86.944 ug/l  
RT: 3.82 min Scan# 637  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 32.9  | 24.3  | 36.5  |





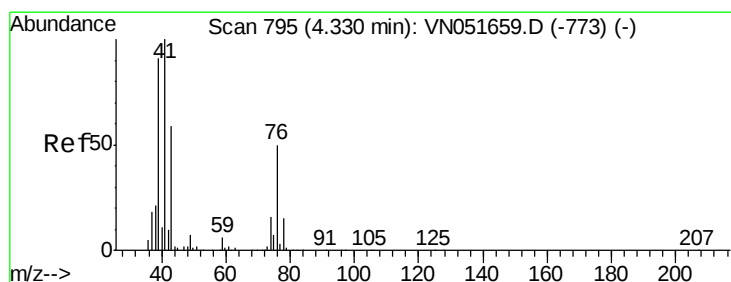
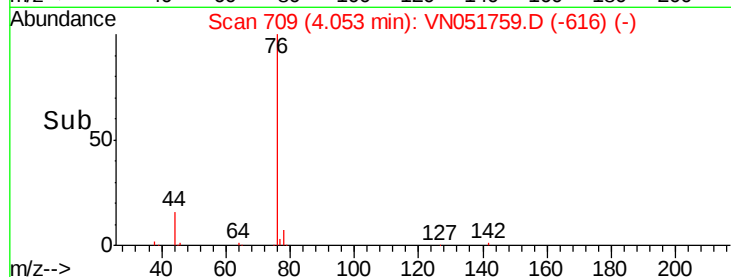
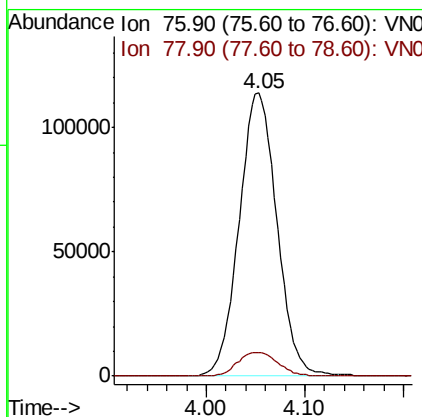
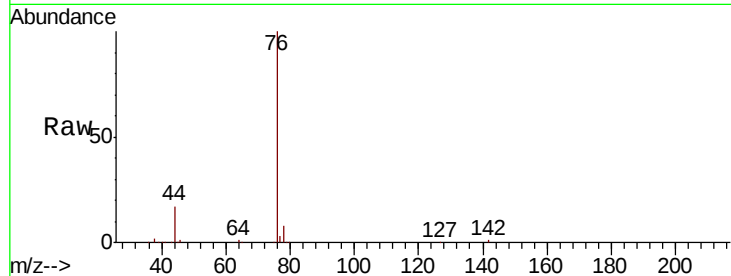
#17  
Carbon Disulfide  
Concen: 17.457 ug/l  
RT: 4.05 min Scan# 709  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 8.4   | 7.2   | 10.8  |

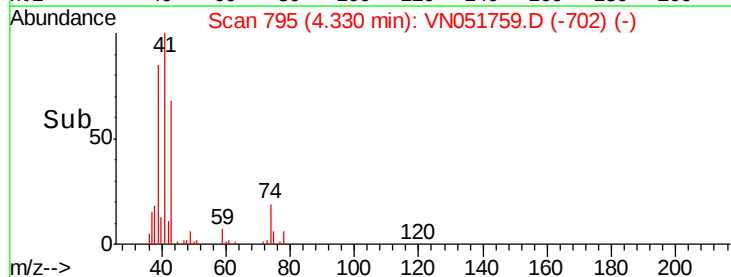
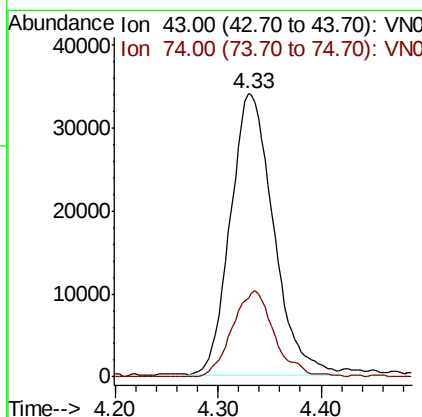
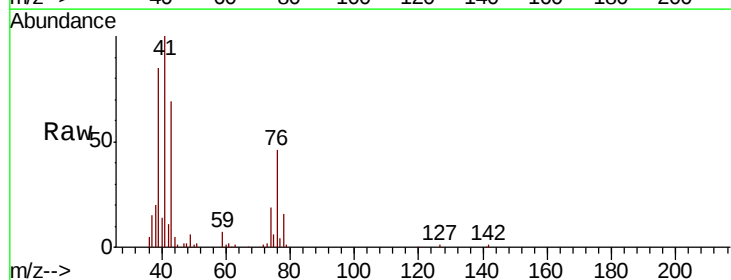
Manual Integrations  
APPROVED

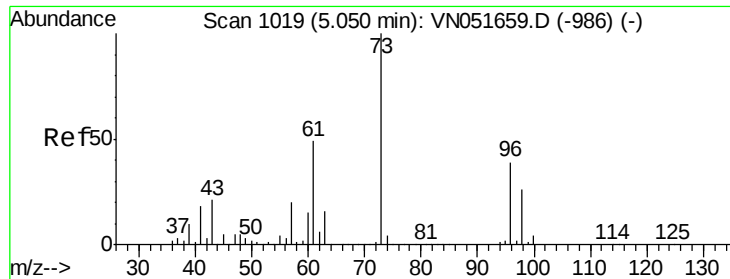
MMDadoda  
10/10/2018 10:50:24 AM



#18  
Methyl Acetate  
Concen: 22.101 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 30.1  | 21.5  | 32.3  |





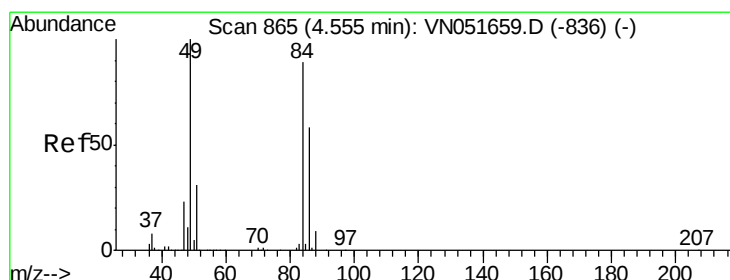
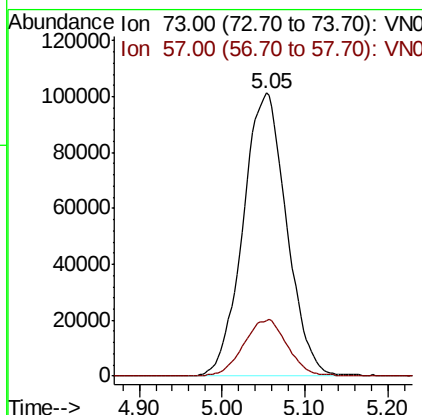
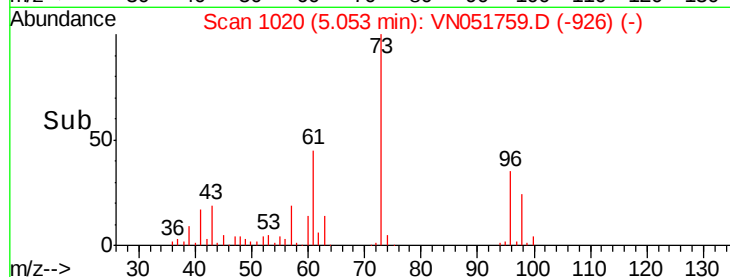
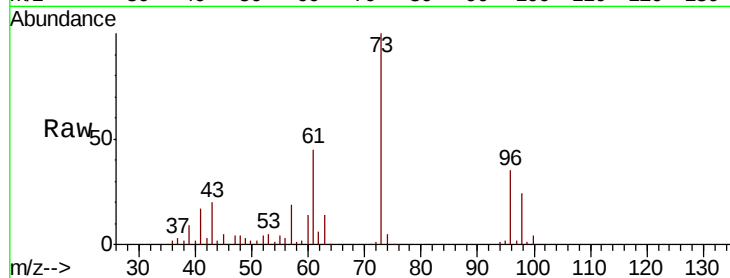
#19  
Methvl tert-butvl Ether  
Concen: 19.682 ug/l  
RT: 5.05 min Scan# 1020  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 19.5  | 15.6  | 23.4  |

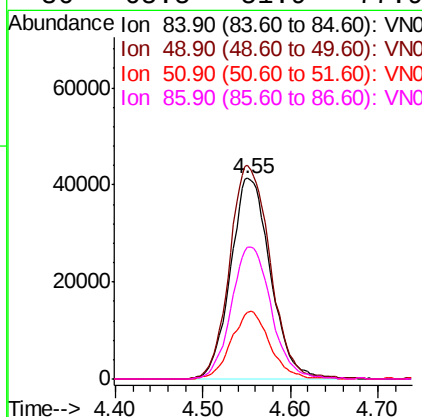
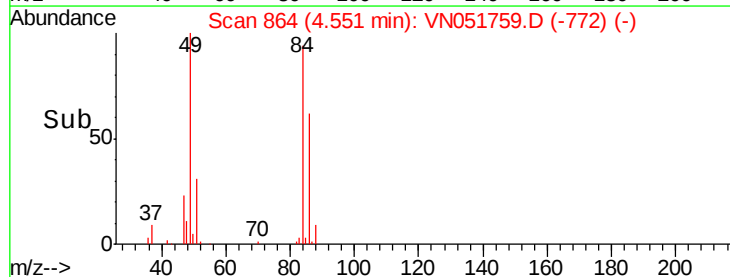
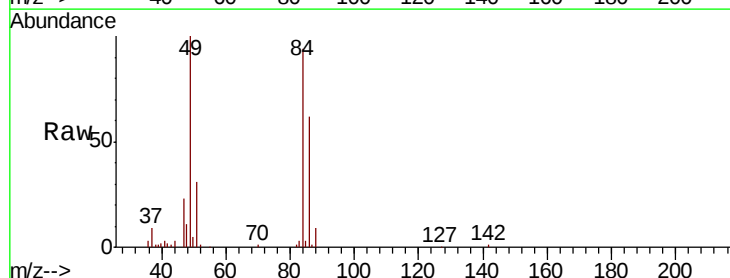
Manual Integrations  
APPROVED

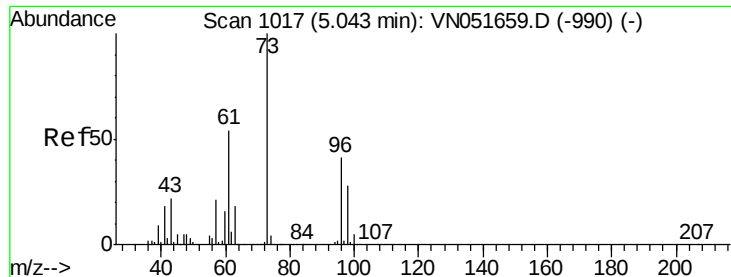
MMDadoda  
10/10/2018 10:50:24 AM



#20  
Methylene Chloride  
Concen: 19.746 ug/l  
RT: 4.55 min Scan# 864  
Delta R.T. -0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 106.5 | 89.5  | 134.3 |
| 51      | 33.4  | 27.4  | 41.0  |
| 86      | 65.5  | 51.9  | 77.9  |





#21

trans-1,2-Dichloroethene

Concen: 18.886 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 96 Resp: 127258

Ion Ratio Lower Upper

96 100

61 114.5 104.7 157.1

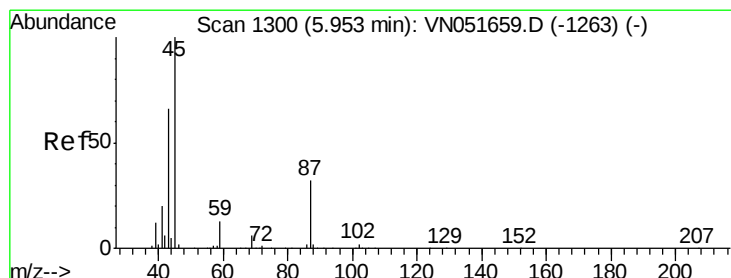
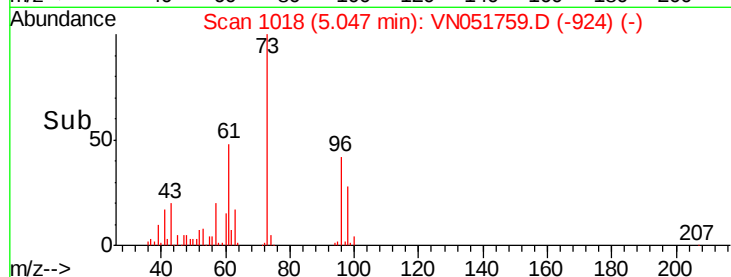
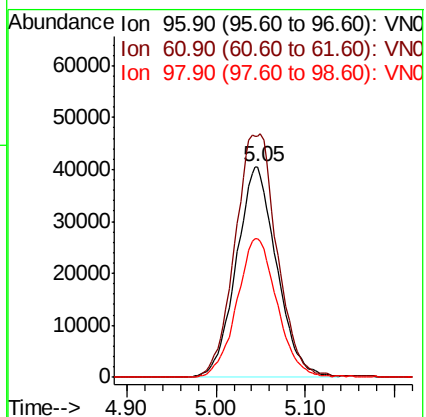
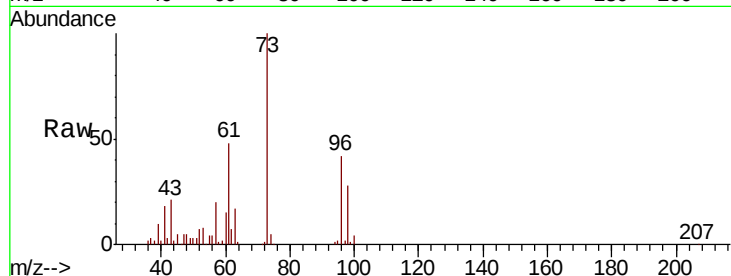
98 65.7 54.6 82.0

Manual Integrations

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MMDadoda

10/10/2018 10:50:24 AM



#22

Diisopropyl ether

Concen: 18.184 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Tgt Ion: 45 Resp: 338059

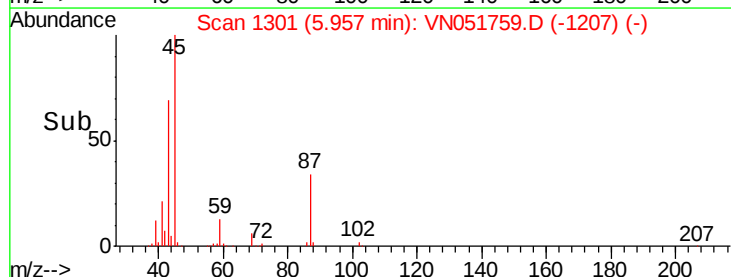
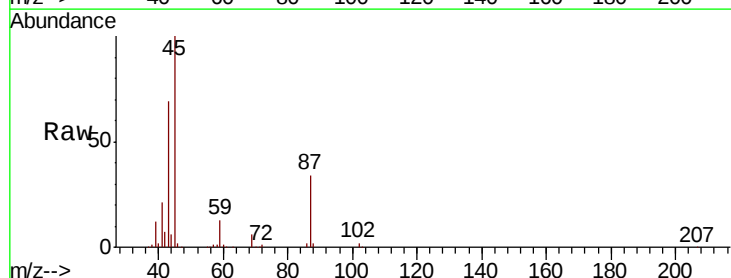
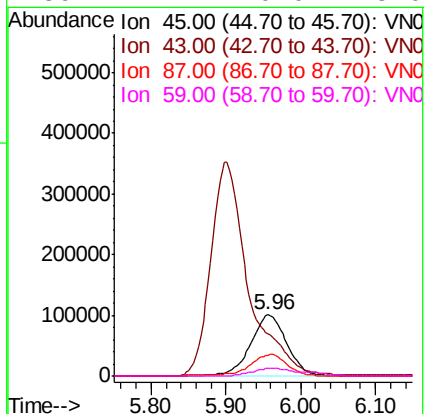
Ion Ratio Lower Upper

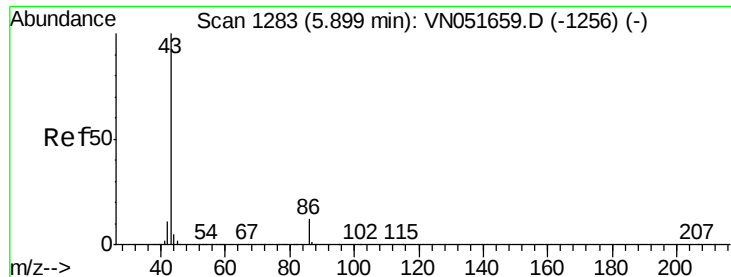
45 100

43 66.3 53.0 79.4

87 34.1 26.4 39.6

59 12.1 10.0 15.0





#23

Vinyl Acetate

Concen: 89.979 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 43 Resp: 1229978

Ion Ratio Lower Upper

43 100

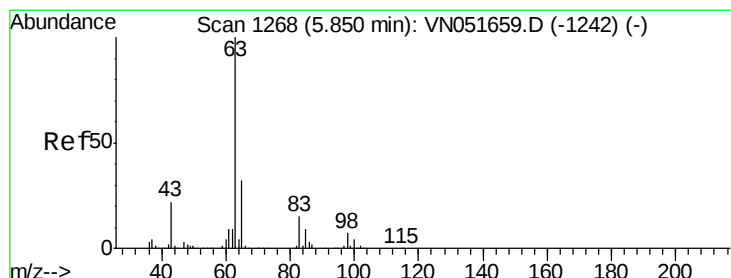
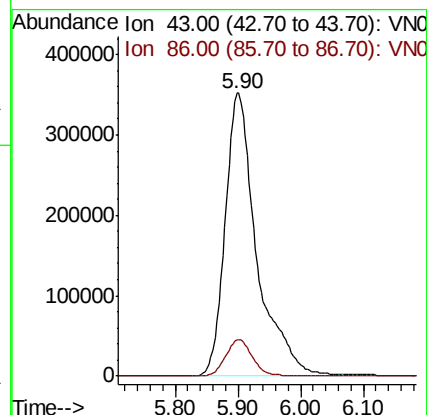
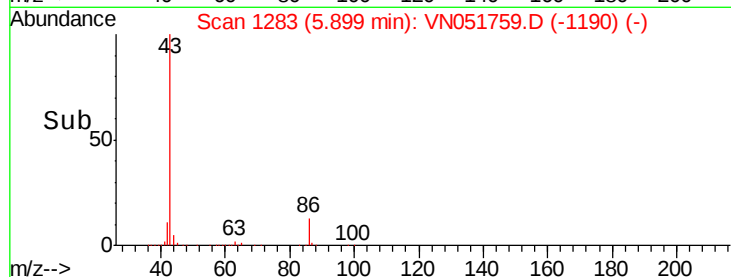
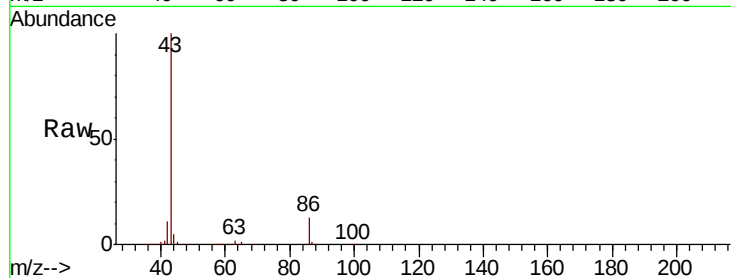
86 12.7 9.3 13.9

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 18.786 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

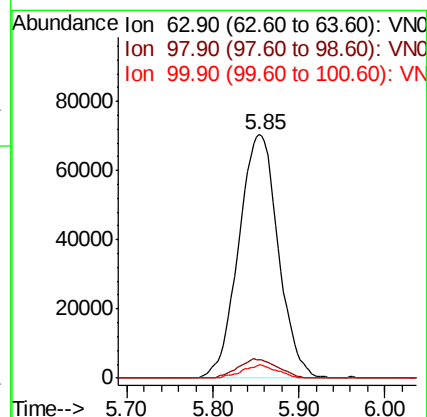
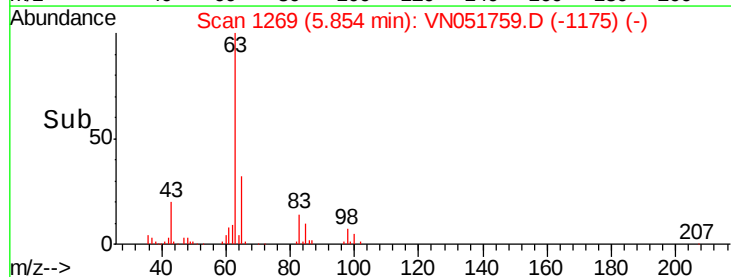
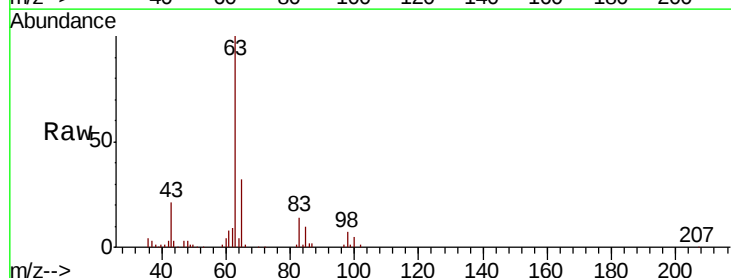
Tgt Ion: 63 Resp: 224619

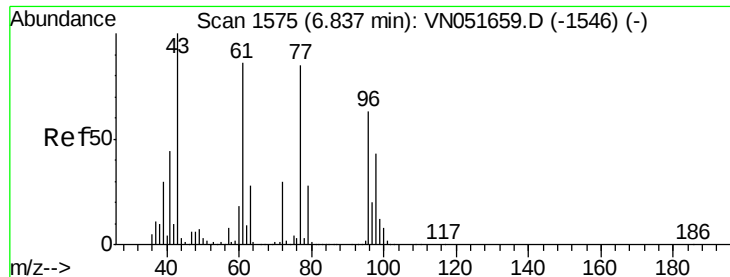
Ion Ratio Lower Upper

63 100

98 7.4 3.3 9.9

100 5.3 2.2 6.6





#25

2-Butanone

Concen: 92.555 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 43 Resp: 21584

Ion Ratio Lower Upper

43 100

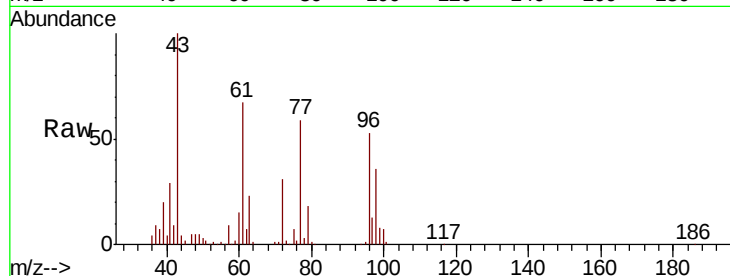
72 30.9 24.2 36.2

Manual Integrations

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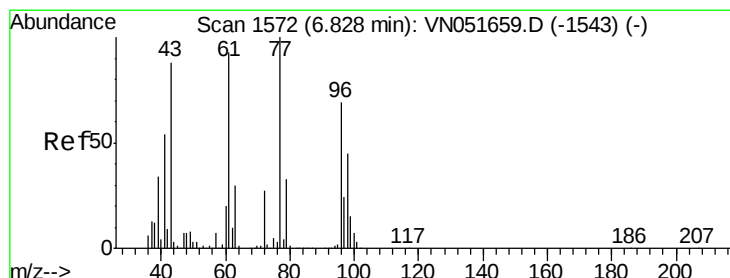
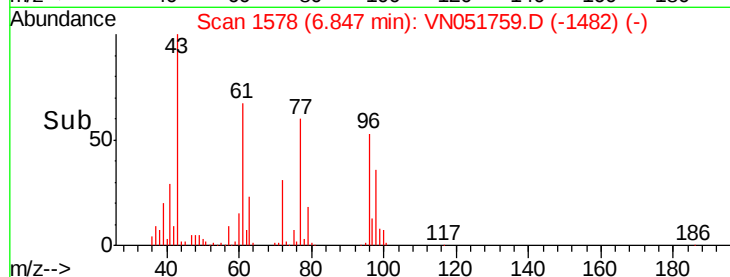
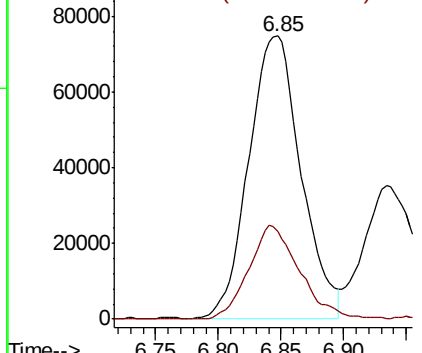
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 16.558 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051759.D

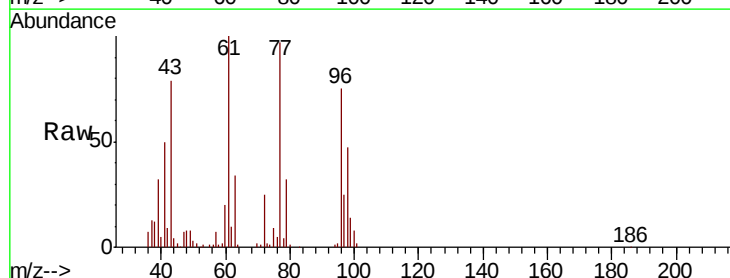
Acq: 9 Oct 2018 19:46

Tgt Ion: 77 Resp: 198390

Ion Ratio Lower Upper

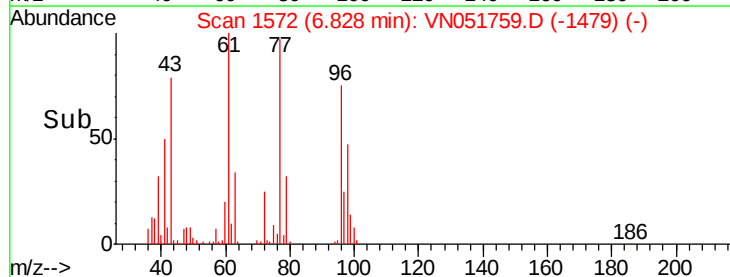
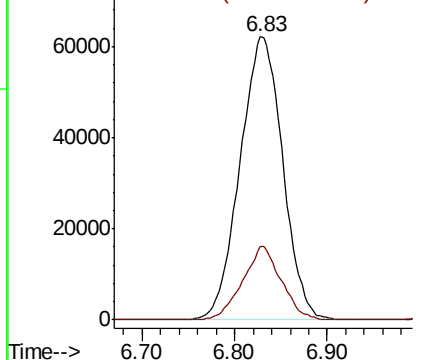
77 100

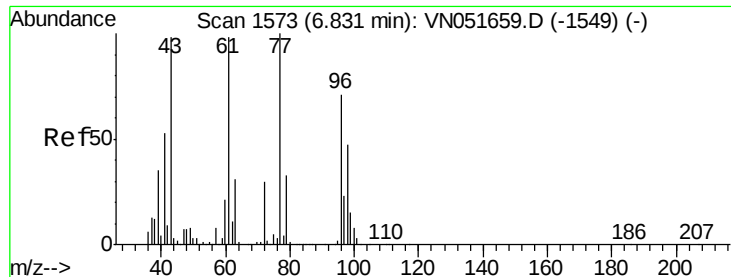
97 23.5 11.3 33.8



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 19.579 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

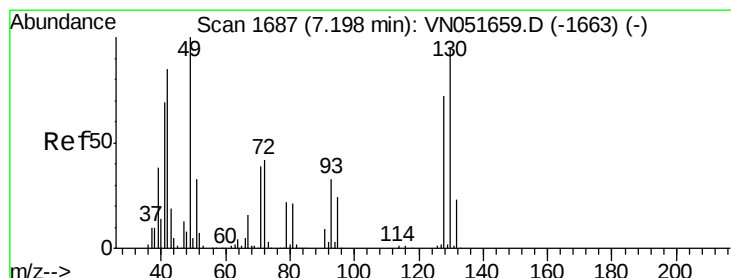
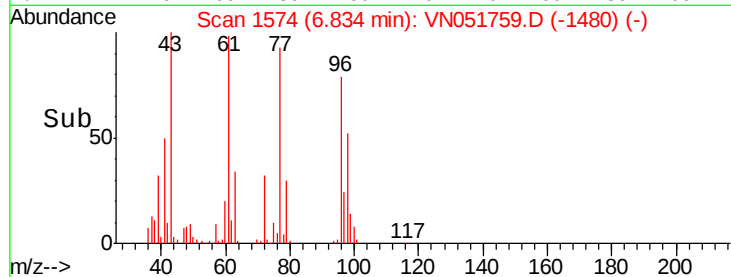
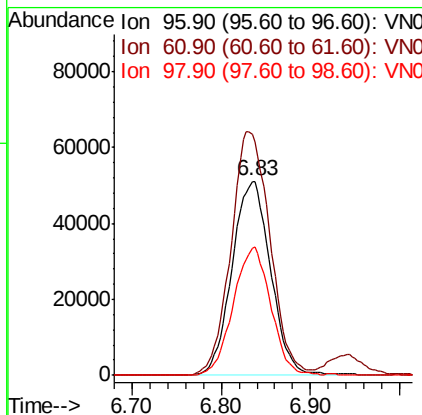
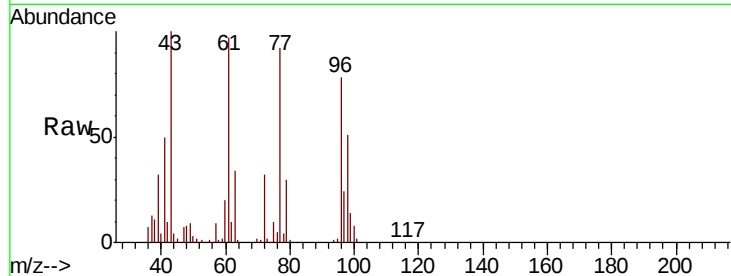
ClientSampleId :

VN1009WBSD02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 96    | Resp: | 153157 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 126.9 | 0.0   | 275.4  |
| 98        | 64.2  | 0.0   | 129.6  |

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#28

Bromochloromethane

Concen: 19.020 ug/l

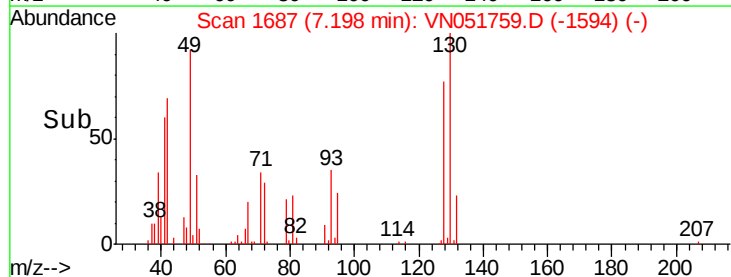
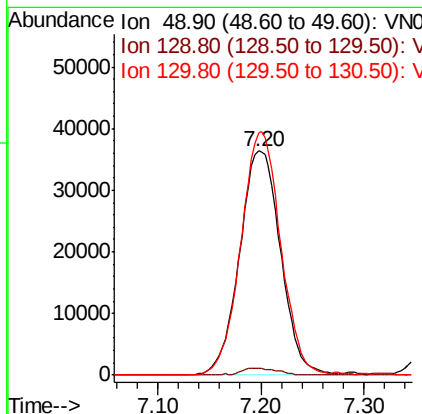
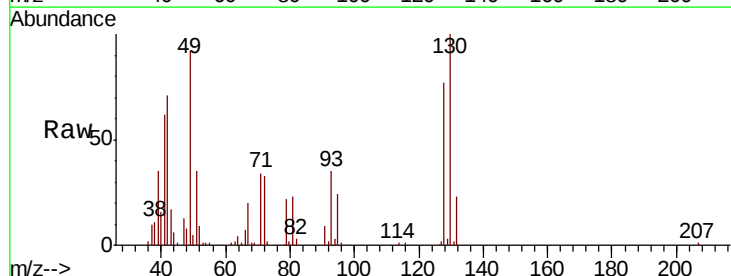
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 49    | Resp: | 100681 |
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 129       | 2.6   | 0.0   | 4.8    |
| 130       | 104.9 | 75.7  | 113.5  |





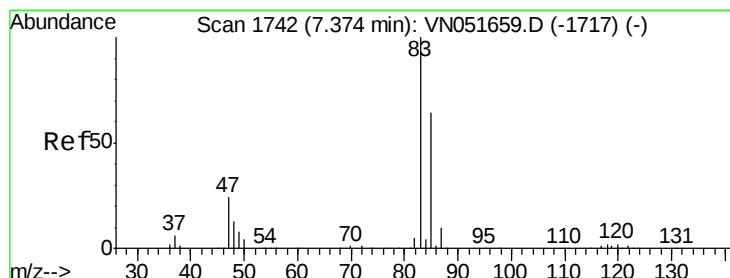
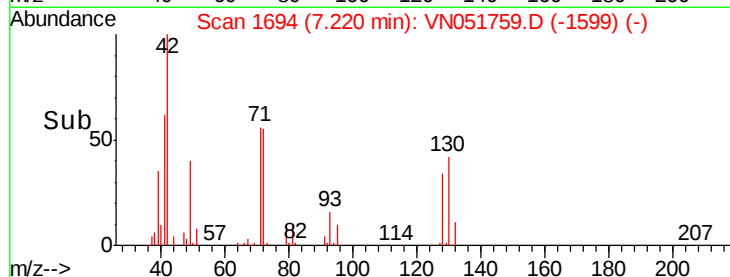
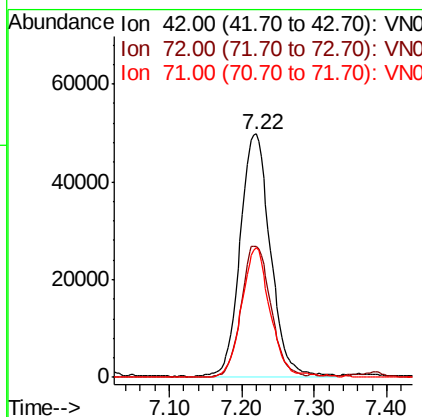
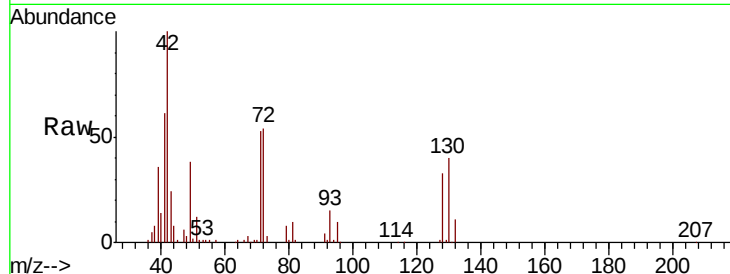
#29  
Tetrahydrofuran  
Concen: 102.209 ug/l  
RT: 7.22 min Scan# 1694  
Delta R.T. 0.01 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 52.5  | 40.1  | 60.1  |
| 71      | 49.2  | 38.0  | 57.0  |

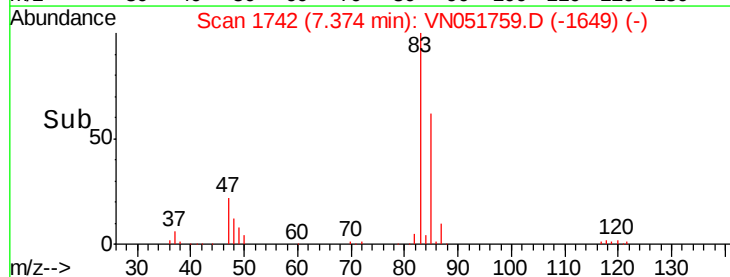
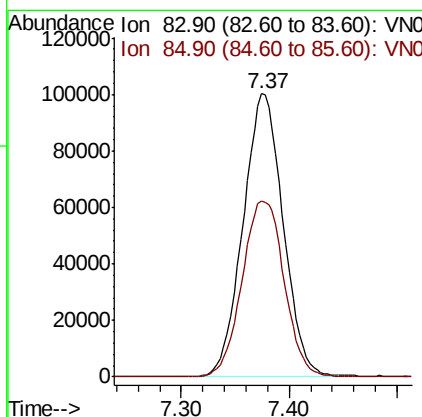
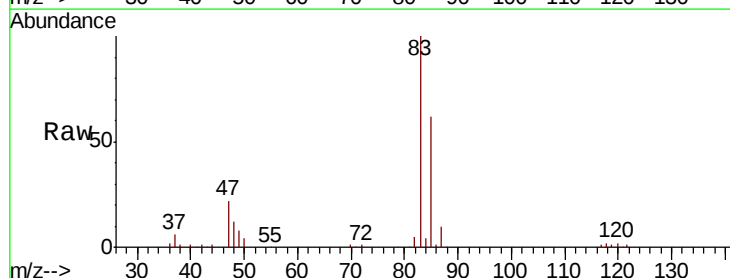
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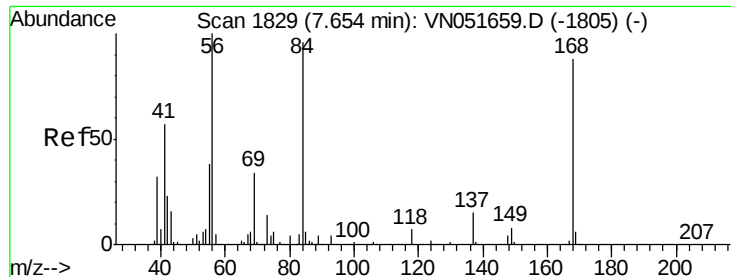
MMDadoda  
10/10/2018 10:50:24 AM



#30  
Chloroform  
Concen: 19.294 ug/l  
RT: 7.37 min Scan# 1742  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 62.0  | 51.6  | 77.4  |





#31

Cyclohexane

Concen: 18.066 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

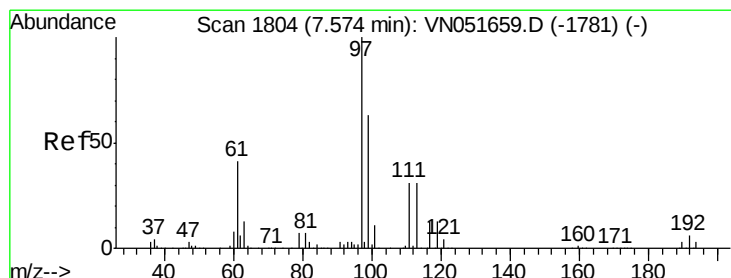
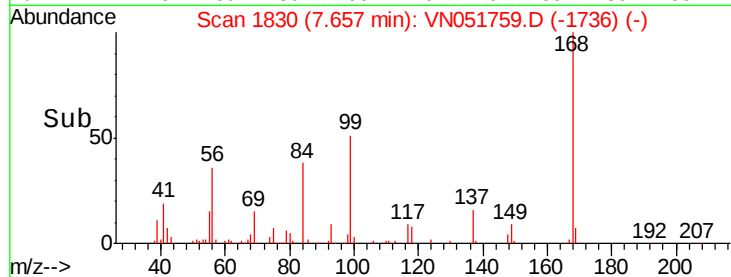
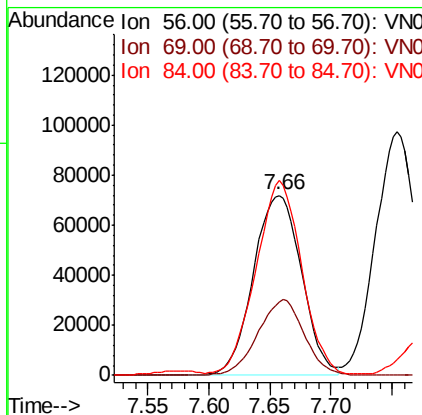
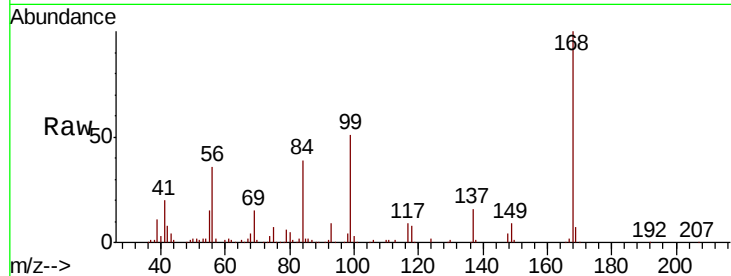
ClientSampleId :

VN1009WBSD02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 56    | Resp: | 197827 |
| Ion Ratio | Lower | Upper |        |
| 56        | 100   |       |        |
| 69        | 40.6  | 27.5  | 41.3   |
| 84        | 105.5 | 76.7  | 115.1  |

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#32

1,1,1-Trichloroethane

Concen: 19.111 ug/l

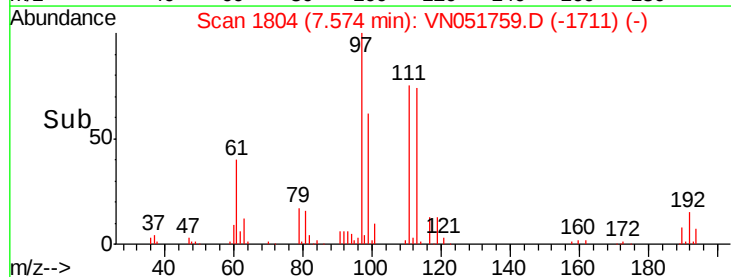
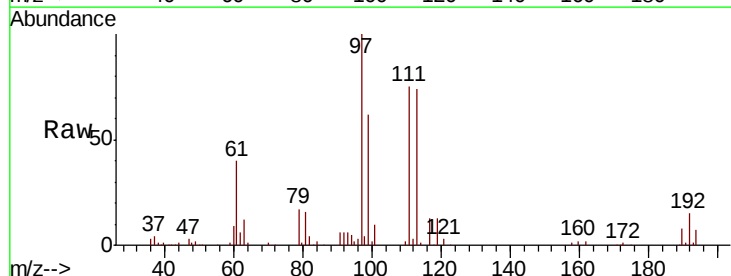
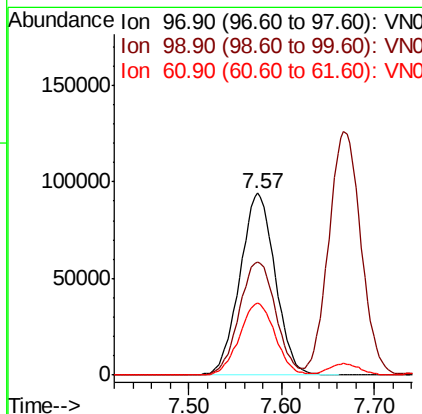
RT: 7.57 min Scan# 1804

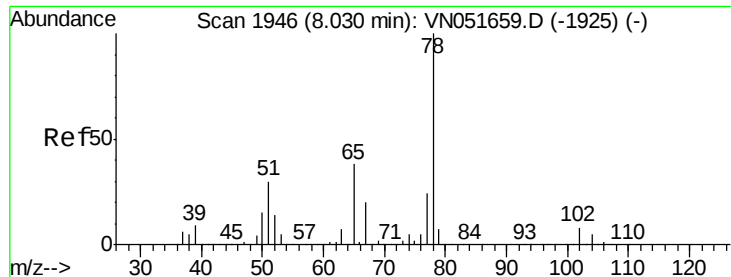
Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 248842 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 64.3  | 51.9  | 77.9   |
| 61        | 39.9  | 33.4  | 50.0   |





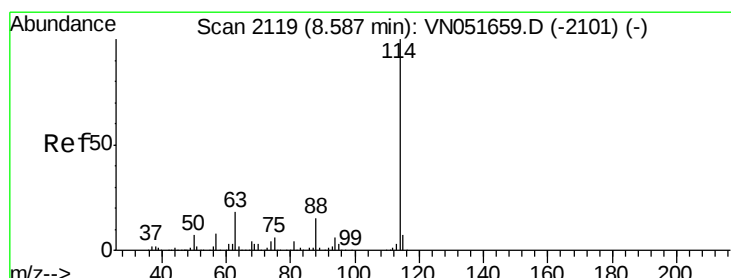
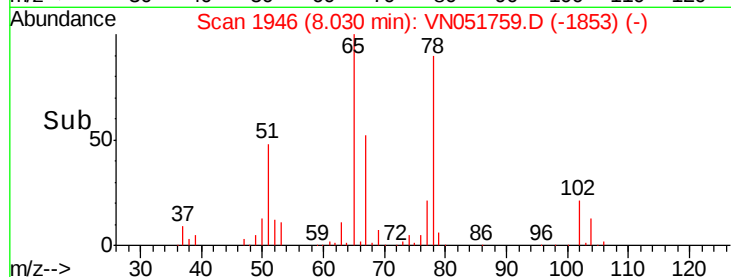
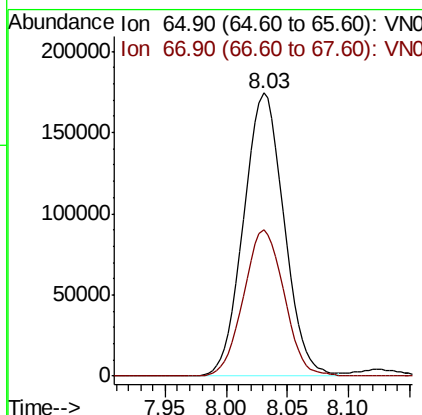
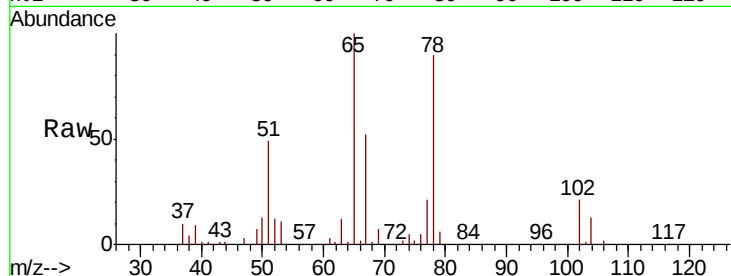
#33  
 1,2-Dichloroethane-d4  
 Concen: 19.111 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 51.8  | 0.0  | 103.6 |       |

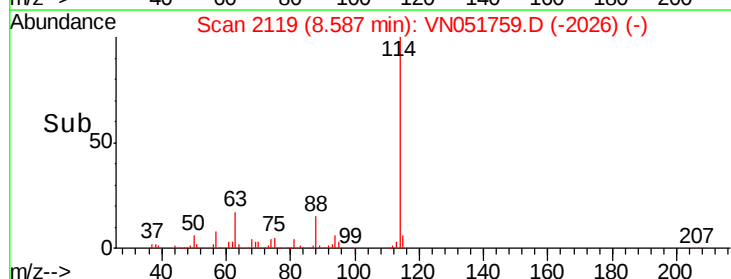
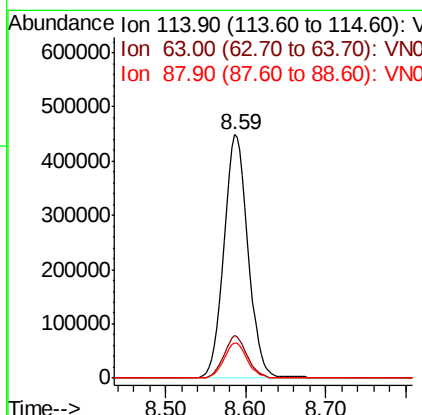
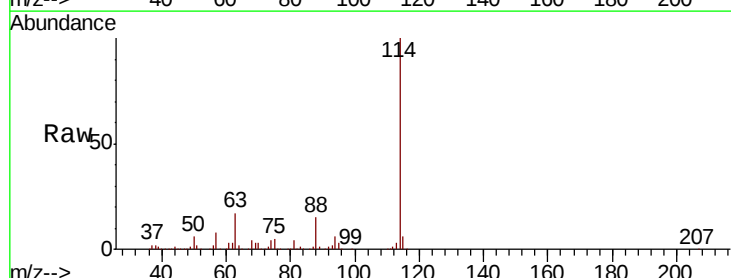
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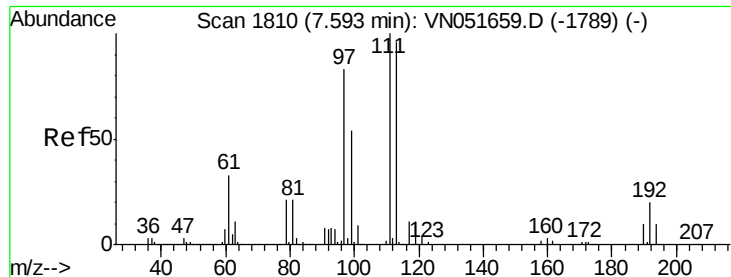
MMDadoda  
 10/10/2018 10:50:24 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 114     | 100   |      |       |       |
| 63      | 17.3  | 0.0  | 36.2  |       |
| 88      | 14.6  | 0.0  | 30.2  |       |





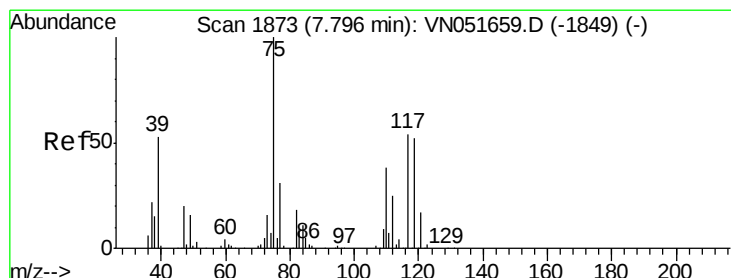
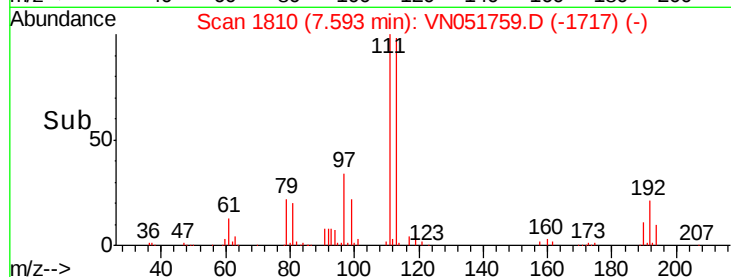
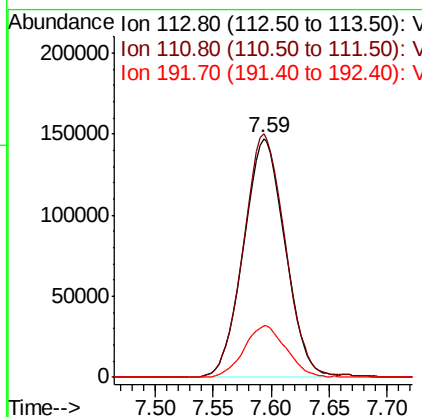
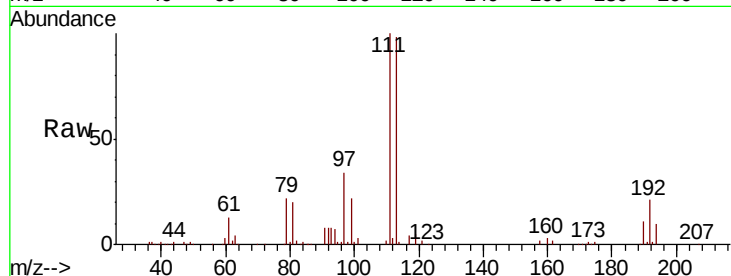
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 7.59 min Scan# 1810  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 367240 |       |       |
| 111     | 102.6 | 81.8   | 122.8 |       |
| 192     | 22.0  | 16.5   | 24.7  |       |

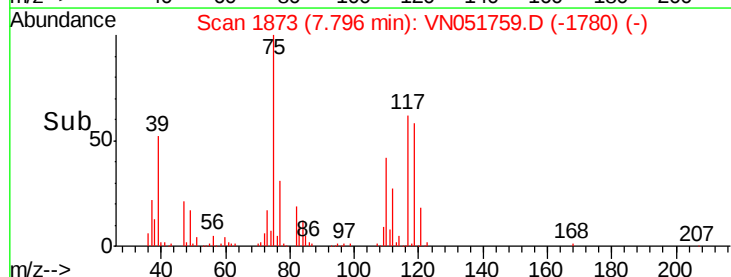
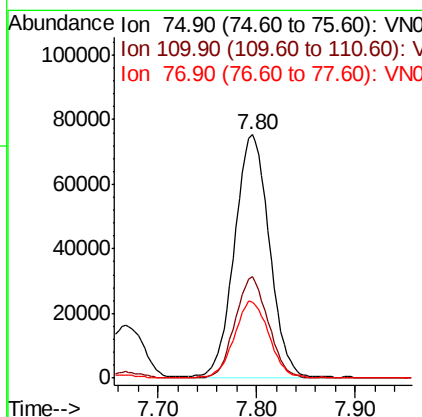
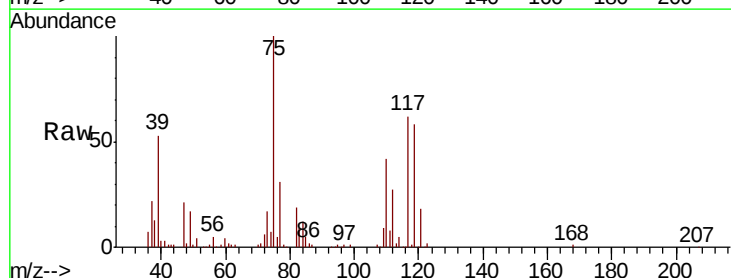
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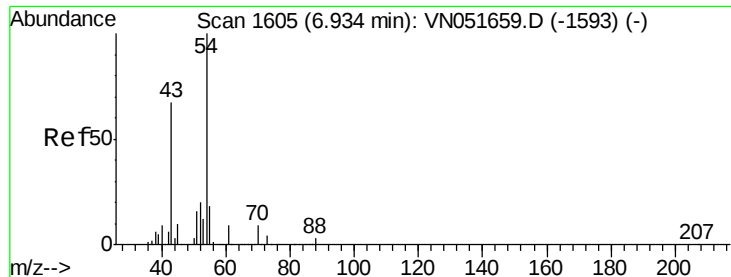
MMDadoda  
10/10/2018 10:50:24 AM



#36  
1,1-Dichloropropene  
Concen: 18.827 ug/l  
RT: 7.80 min Scan# 1873  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 183510 |       |       |
| 110     | 39.6  | 19.3   | 57.8  |       |
| 77      | 31.7  | 24.7   | 37.1  |       |





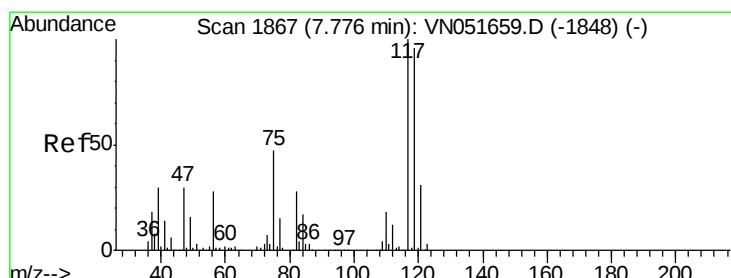
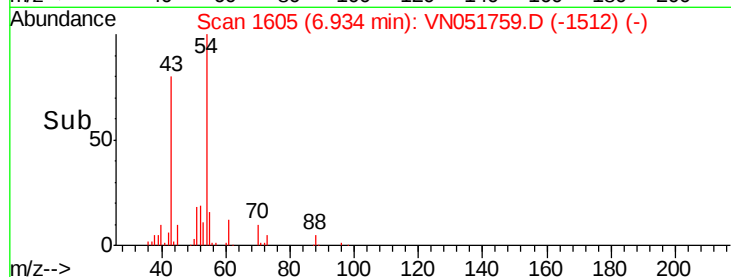
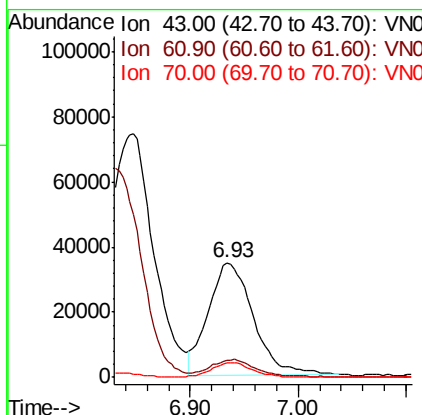
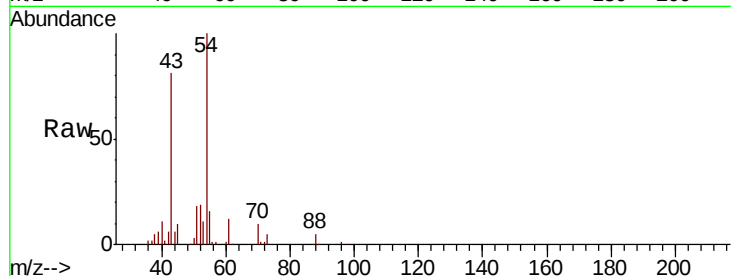
#37  
Ethyl Acetate  
Concen: 19.962 ug/l  
RT: 6.93 min Scan# 1605  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.1  | 11.8  | 17.6  |
| 70      | 11.8  | 8.7   | 13.1  |

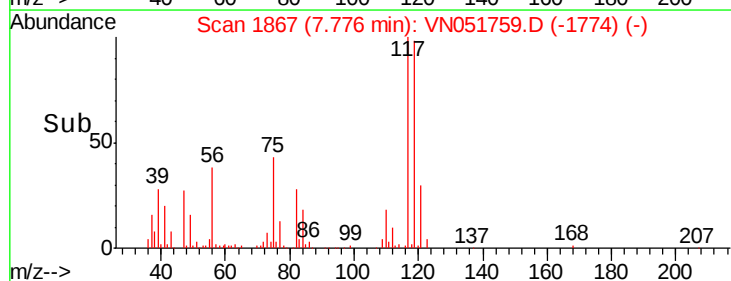
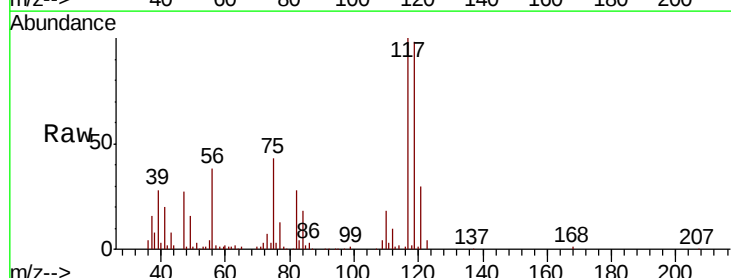
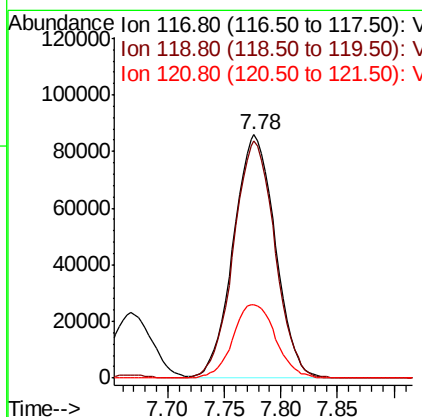
Manual Integrations  
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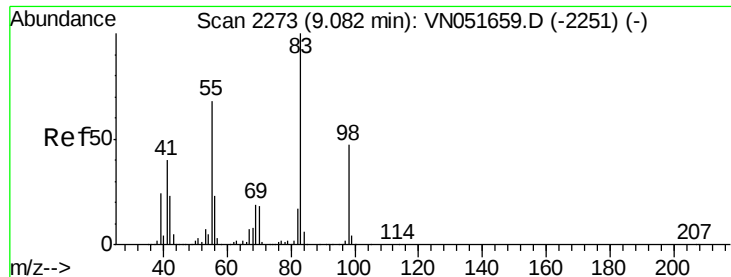
MMDadoda  
10/10/2018 10:50:24 AM



#38  
Carbon Tetrachloride  
Concen: 18.946 ug/l  
RT: 7.78 min Scan# 1867  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.4  | 77.0  | 115.6 |
| 121     | 30.2  | 25.0  | 37.6  |





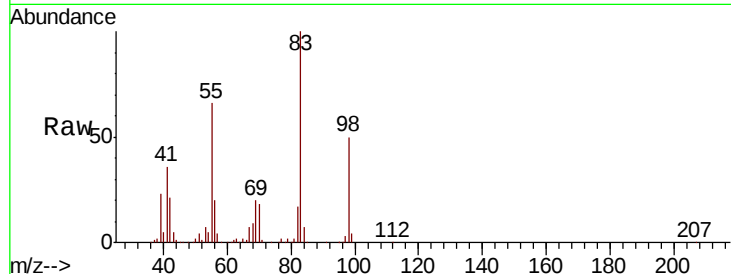
#39  
Methvlcvclohexane  
Concen: 18.676 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 83      | 100   |            |       |
| 55      | 66.3  | 54.3       | 81.5  |
| 98      | 50.3  | 37.4       | 56.2  |

Manual Integrations  
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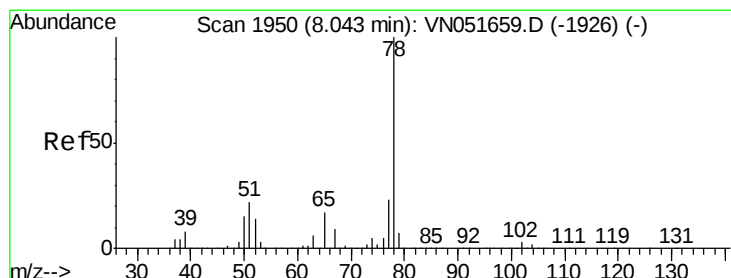
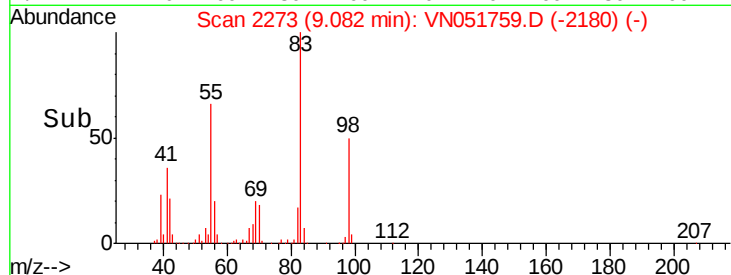
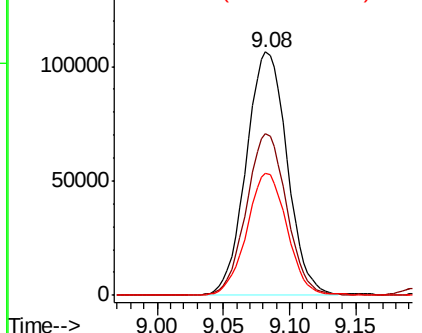
MMDadoda  
10/10/2018 10:50:24 AM



Abundance Ion 83.00 (82.70 to 83.70): VN051759.D (-2180) (-)

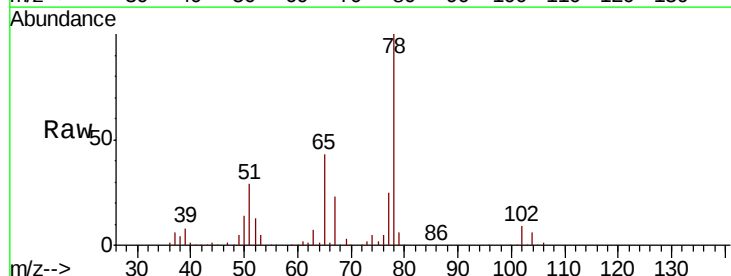
Ion 55.00 (54.70 to 55.70): VN051759.D (-2180) (-)

Ion 98.00 (97.70 to 98.70): VN051759.D (-2180) (-)



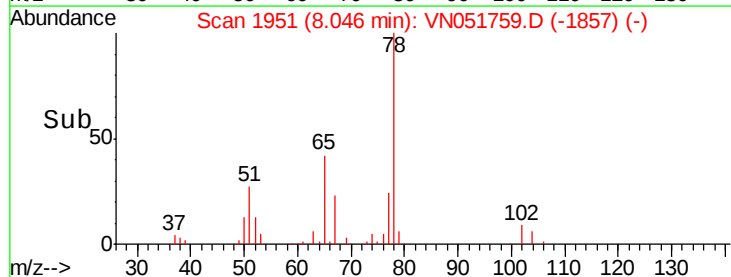
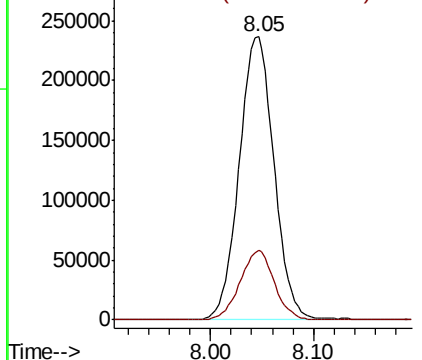
#40  
Benzene  
Concen: 19.199 ug/l  
RT: 8.05 min Scan# 1951  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

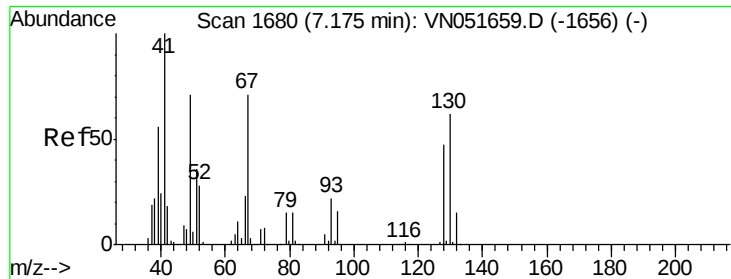
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 78      | 100   |            |       |
| 77      | 24.6  | 18.5       | 27.7  |



Abundance Ion 78.00 (77.70 to 78.70): VN051759.D (-1857) (-)

Ion 77.00 (76.70 to 77.70): VN051759.D (-1857) (-)





#41

Methacrylonitrile

Concen: 20.948 ug/l m

RT: 7.19 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 41 Resp: 55324

Ion Ratio Lower Upper

41 100

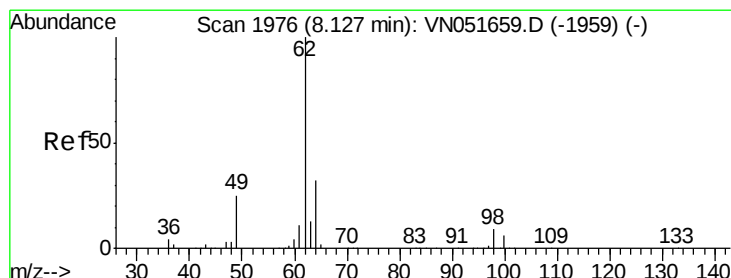
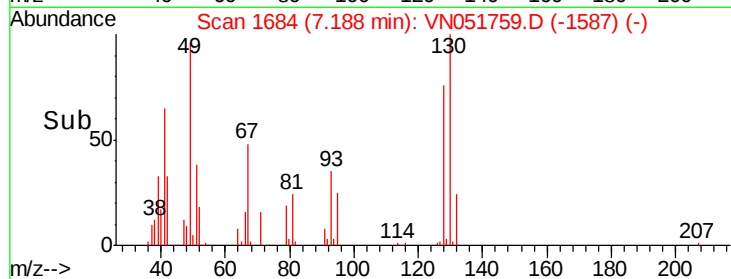
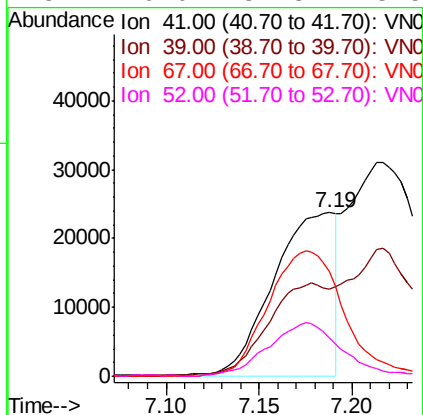
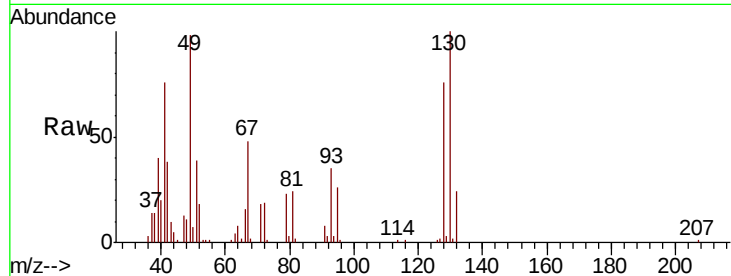
39 0.0 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

Manual Integrations  
APPROVED

MMDadoda  
10/10/2018 10:50:24 AM



#42

1,2-Dichloroethane

Concen: 18.831 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN051759.D

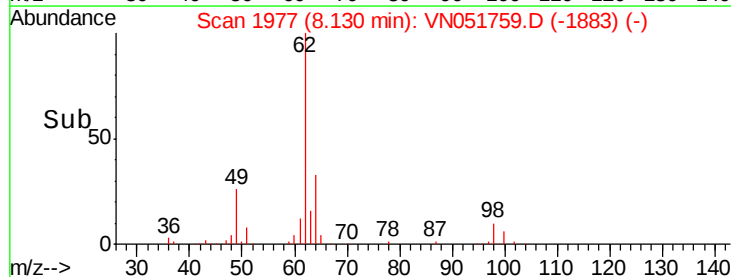
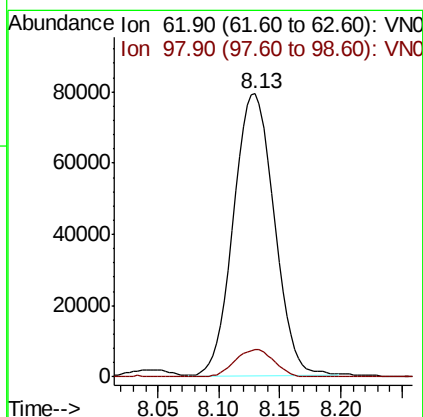
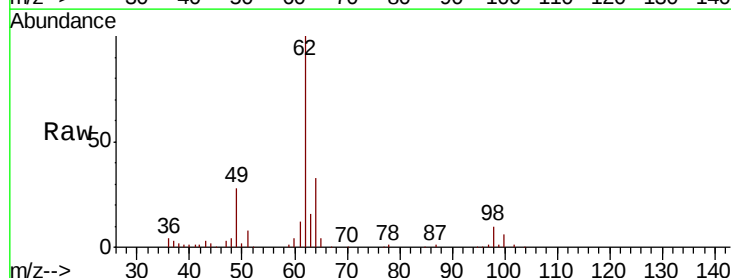
Acq: 9 Oct 2018 19:46

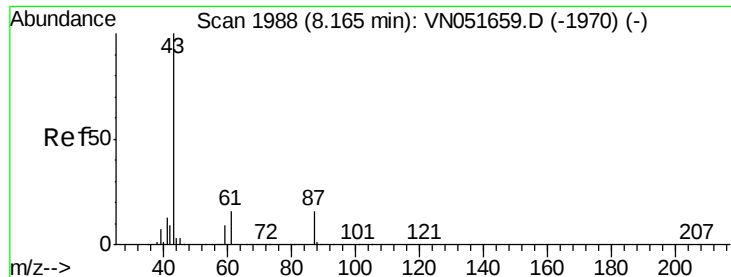
Tgt Ion: 62 Resp: 183372

Ion Ratio Lower Upper

62 100

98 9.4 0.0 18.4





#43

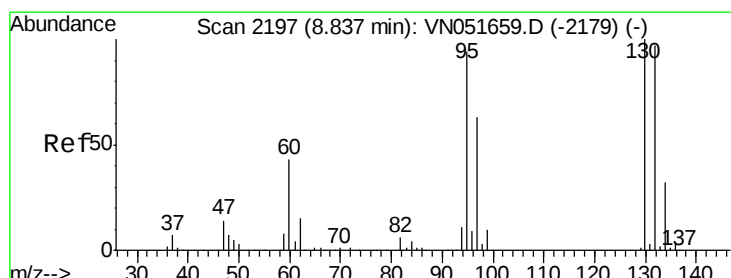
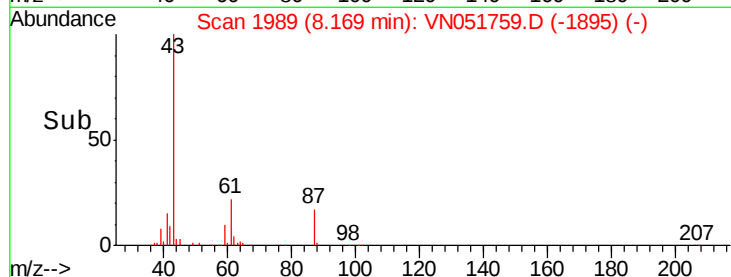
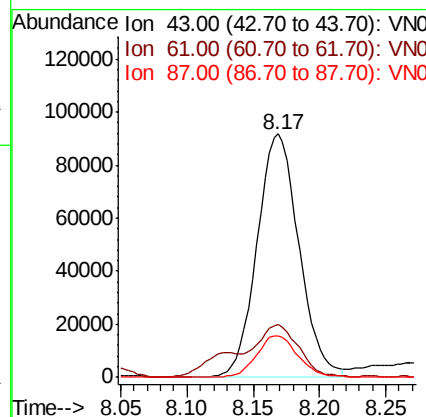
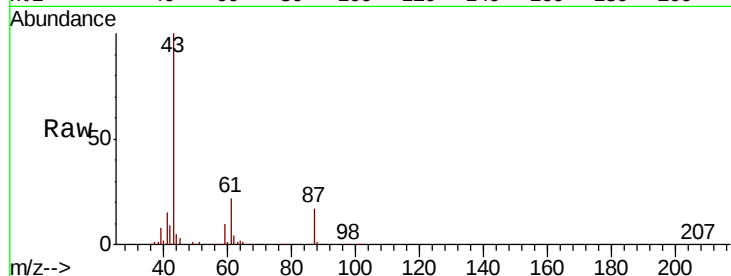
Isopropyl Acetate  
 Concen: 18.919 ug/l  
 RT: 8.17 min Scan# 1989  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion   | 43   | Resp  | 200523 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 43        | 100  |       |        |
| 61        | 21.2 | 15.8  | 23.6   |
| 87        | 16.9 | 12.6  | 19.0   |

Manual Integrations  
 APPROVED

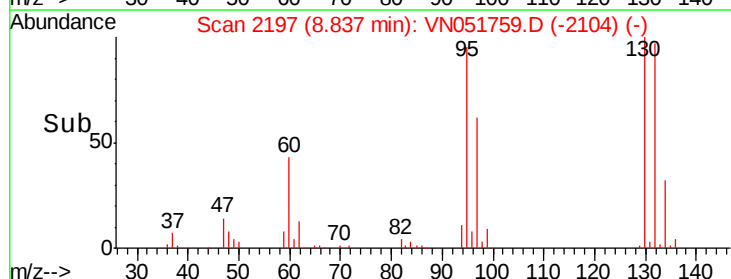
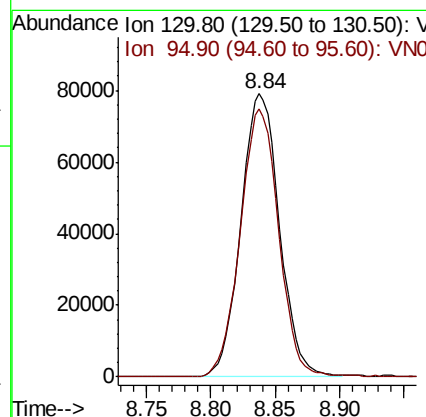
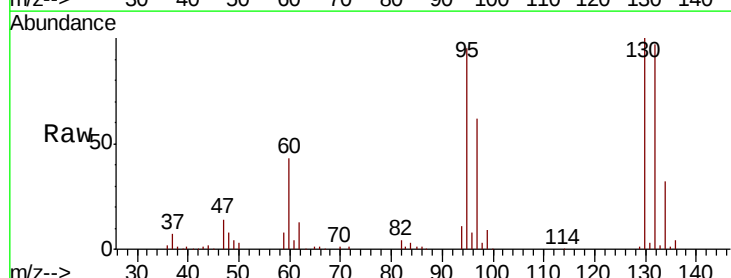
MMDadoda  
 10/10/2018 10:50:24 AM

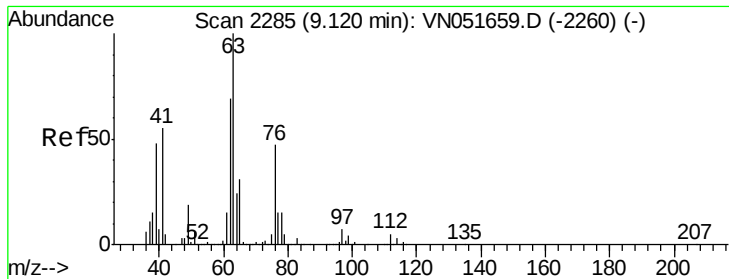


#44

Trichloroethene  
 Concen: 20.074 ug/l  
 RT: 8.84 min Scan# 2197  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion   | 130  | Resp  | 164700 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 130       | 100  |       |        |
| 95        | 94.8 | 0.0   | 188.0  |





#45

1,2-Dichloropropane

Concen: 18.720 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 63 Resp: 133740

Ion Ratio Lower Upper

63 100

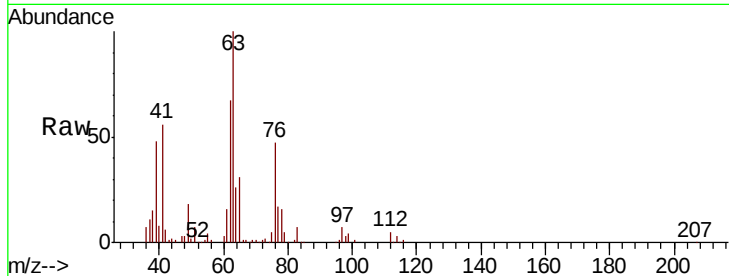
65 31.2 25.0 37.4

Manual Integrations

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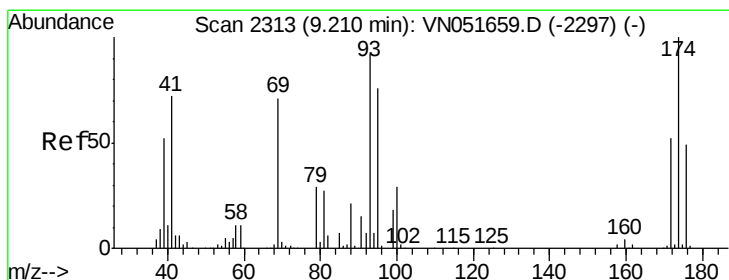
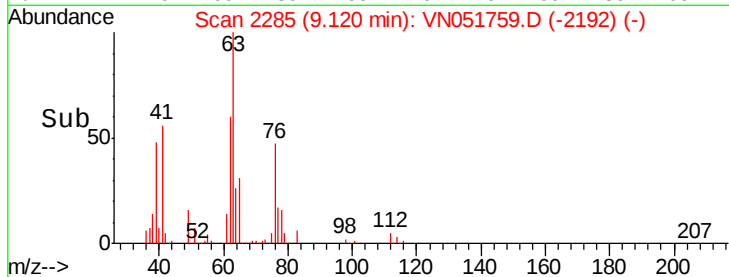
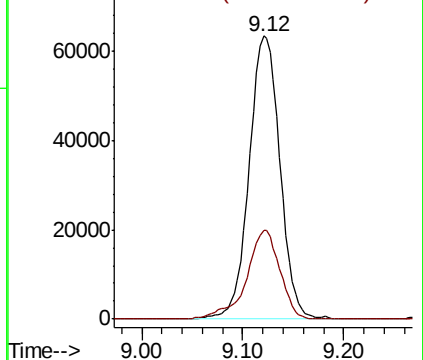
MMDadoda

10/10/2018 10:50:24 AM



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 19.655 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

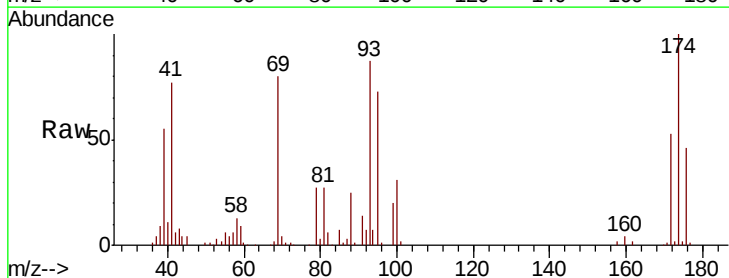
Tgt Ion: 93 Resp: 97600

Ion Ratio Lower Upper

93 100

95 84.4 66.6 100.0

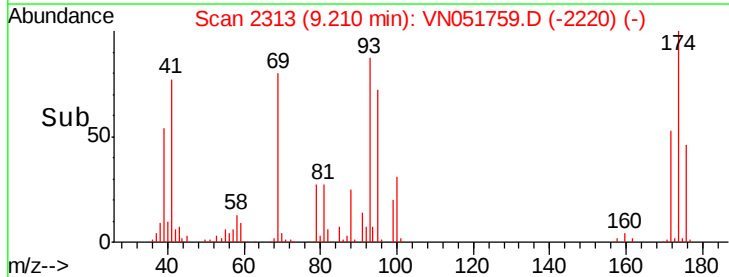
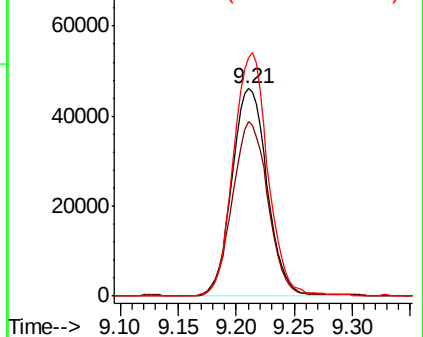
174 114.5 85.9 128.9

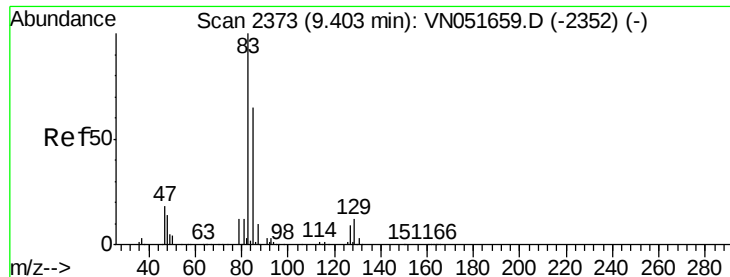


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 18.566 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

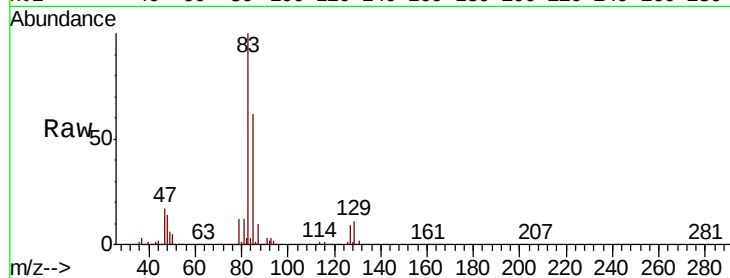
ClientSampleId :

VN1009WBSD02

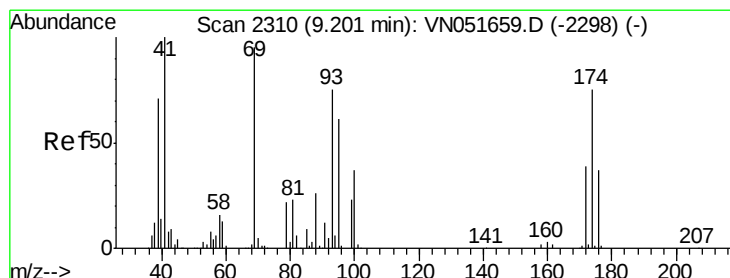
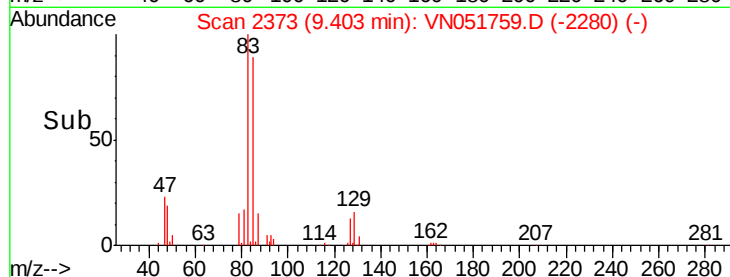
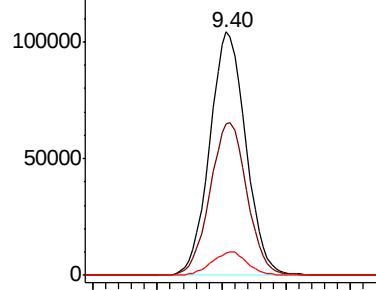
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 83    | Resp: | 202946 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 62.4  | 51.6  | 77.4   |
| 127      | 9.2   | 7.3   | 10.9   |

Manual Integrations  
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Abundance Ion 82.90 (82.60 to 83.60): VN051759.D (-2280) (-)



#48

Methyl methacrylate

Concen: 19.347 ug/l

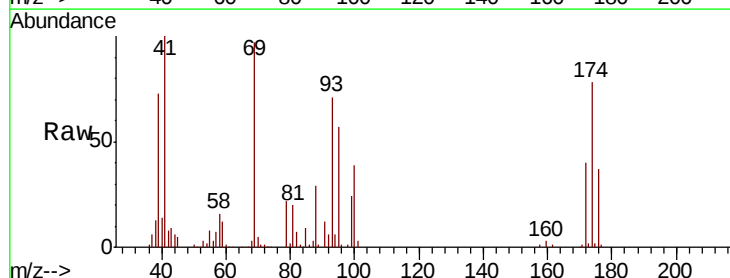
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

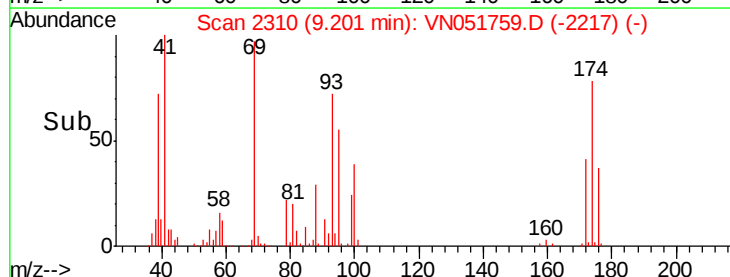
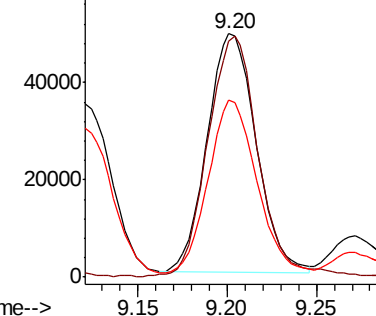
Lab File: VN051759.D

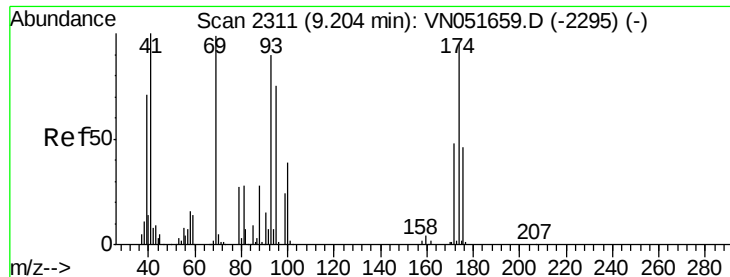
Acq: 9 Oct 2018 19:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 93699 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 103.1 | 78.6  | 118.0 |
| 39       | 74.7  | 59.2  | 88.8  |



Abundance Ion 41.00 (40.70 to 41.70): VN051759.D (-2217) (-)





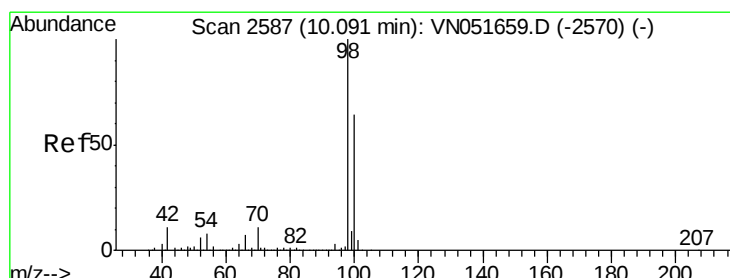
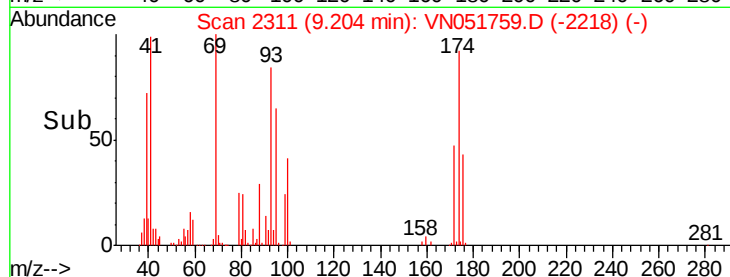
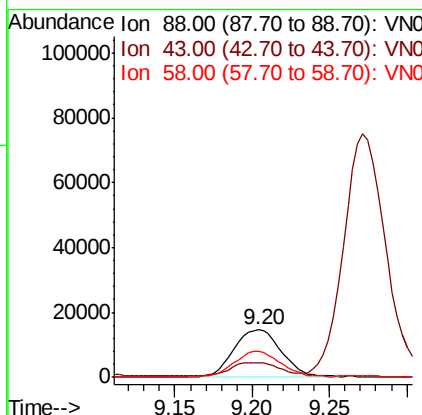
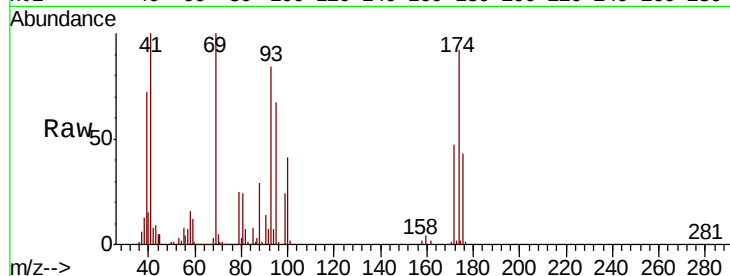
#49  
1,4-Dioxane  
Concen: 434.098 ug/l  
RT: 9.20 min Scan# 2311  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | 88    | Resp  | 31525 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 29.3  | 24.5  | 36.7  |
| 58      | 53.6  | 47.6  | 71.4  |

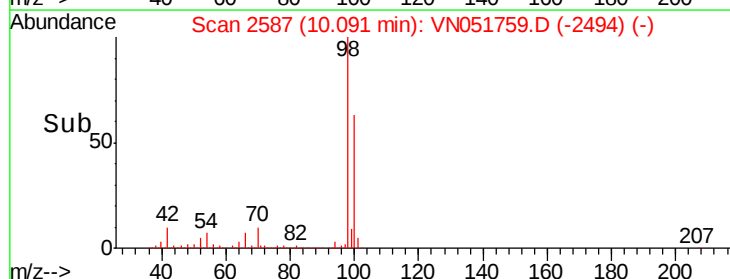
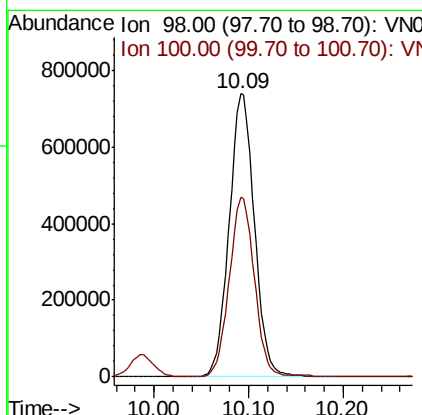
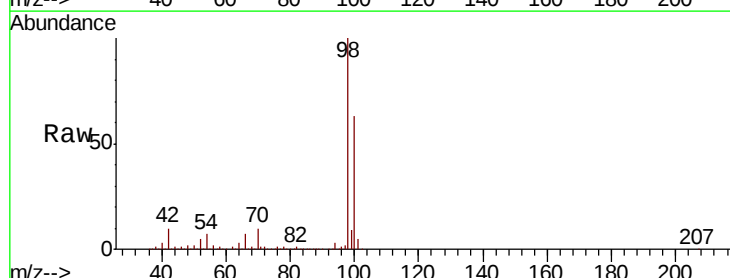
Manual Integrations  
APPROVED

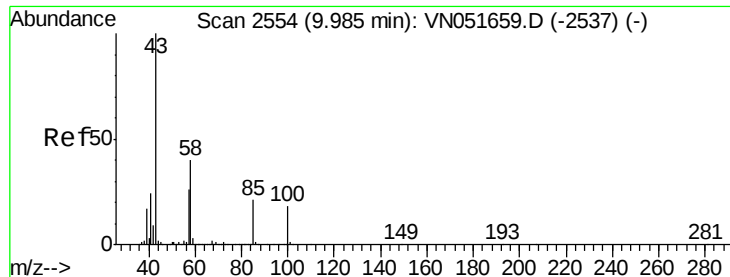
MMDadoda  
10/10/2018 10:50:24 AM



#50  
Toluene-d8  
Concen: 434.098 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | 98    | Resp  | 1374624 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 98      | 100   |       |         |
| 100     | 63.4  | 51.5  | 77.3    |





#51

4-Methyl-2-Pentanone

Concen: 100.170 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 43 Resp: 537996

Ion Ratio Lower Upper

43 100

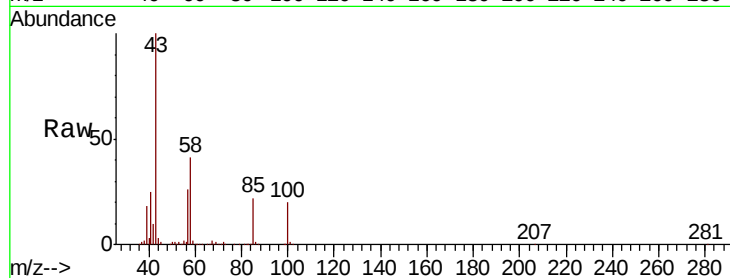
58 41.3 32.2 48.2

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Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN051659.D (-2537) (-)

9.99

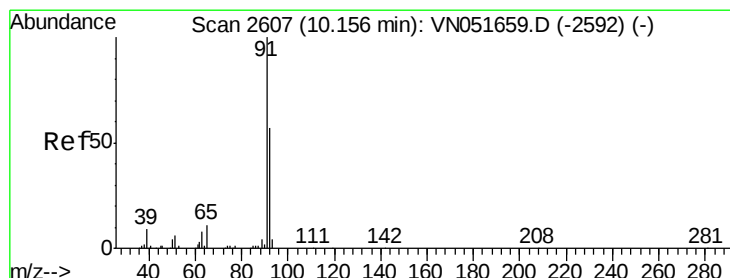
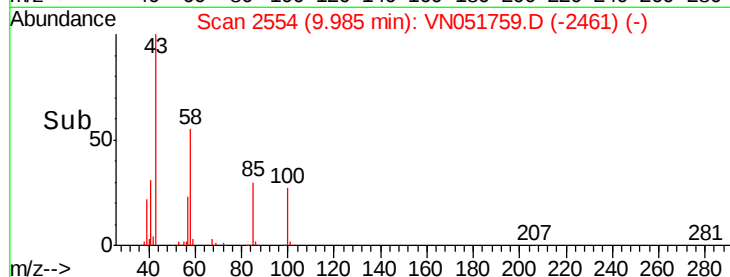
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.303 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051759.D

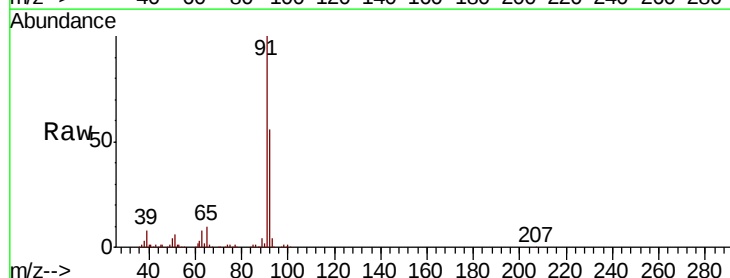
Acq: 9 Oct 2018 19:46

Tgt Ion: 92 Resp: 370969

Ion Ratio Lower Upper

92 100

91 176.6 140.3 210.5



Abundance Ion 92.00 (91.70 to 92.70): VN051659.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN051659.D (-2592) (-)

10.16

400000

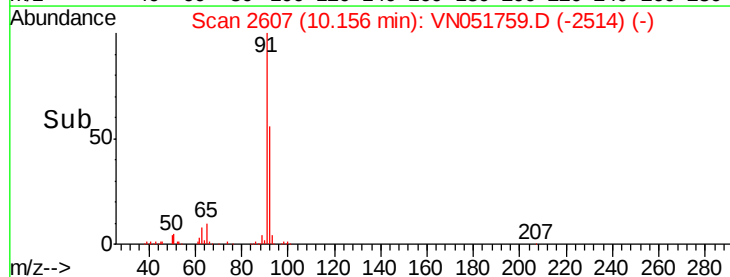
300000

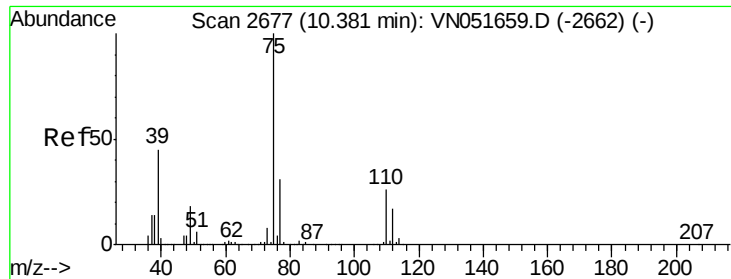
200000

100000

0

Time-->





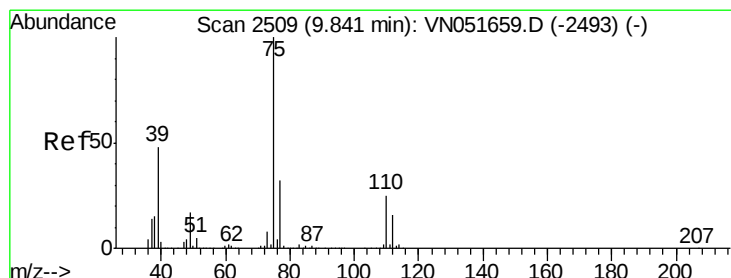
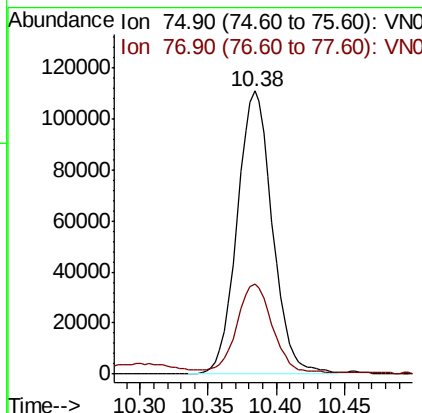
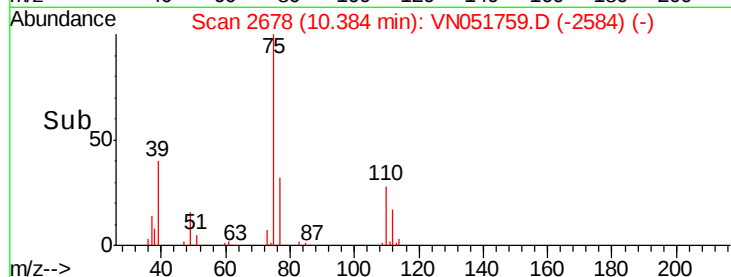
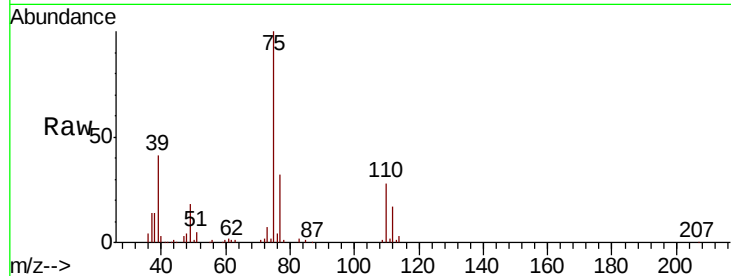
#53  
t-1,3-Dichloropropene  
Concen: 17.620 ug/l  
RT: 10.38 min Scan# 2678  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

Tot Ion: 75 Resp: 198750  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.5 38.3

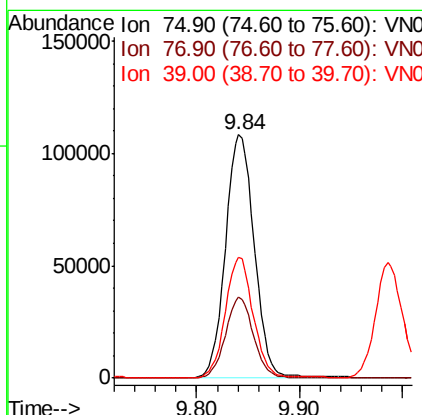
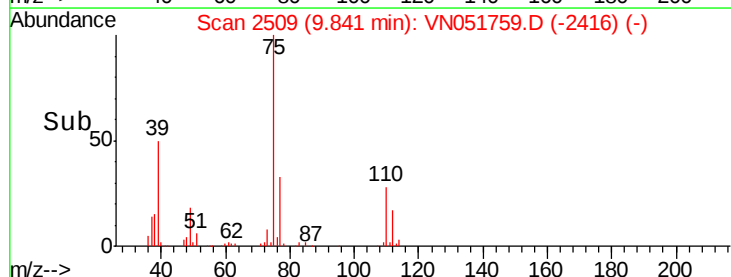
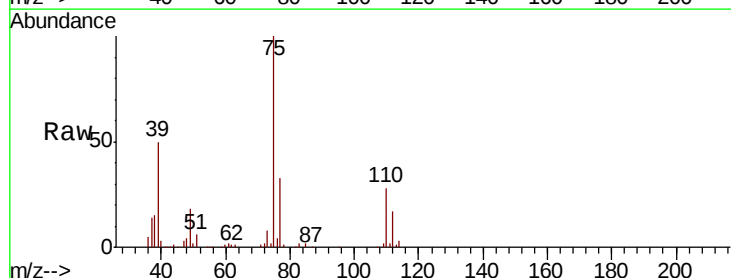
Manual Integrations  
APPROVED

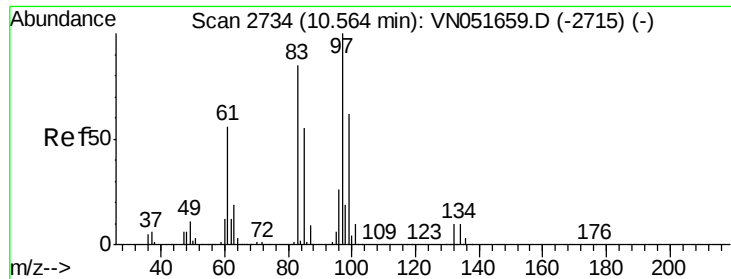
MMDadoda  
10/10/2018 10:50:24 AM



#54  
cis-1,3-Dichloropropene  
Concen: 17.646 ug/l  
RT: 9.84 min Scan# 2509  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Tgt Ion: 75 Resp: 211361  
Ion Ratio Lower Upper  
75 100  
77 33.0 25.7 38.5  
39 49.7 38.1 57.1





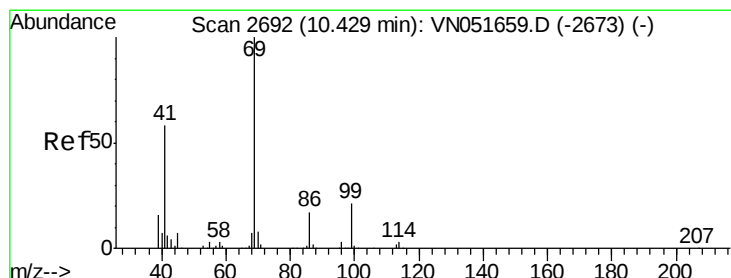
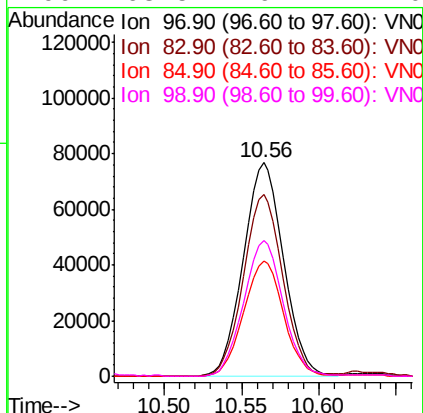
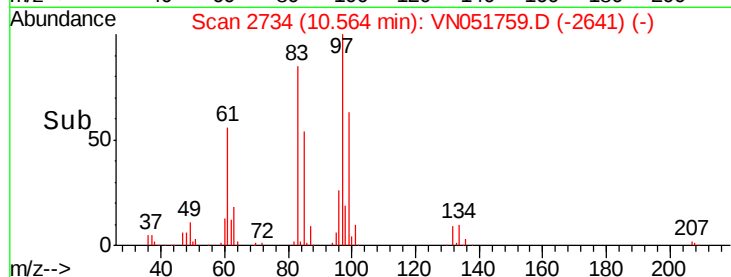
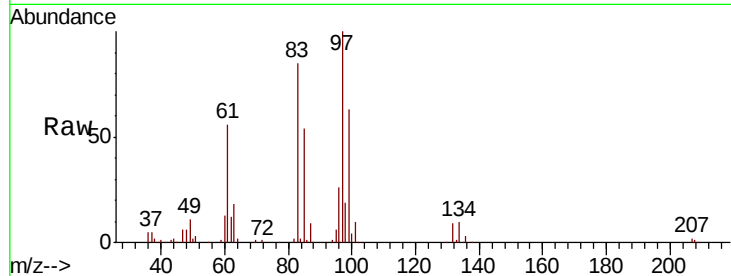
#55  
 1,1,2-Trichloroethane  
 Concen: 20.329 ug/l  
 RT: 10.56 min Scan# 2734  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 139175 |       |       |
| 83      | 85.1 | 68.1  | 102.1  |       |       |
| 85      | 53.8 | 43.6  | 65.4   |       |       |
| 99      | 63.5 | 49.4  | 74.0   |       |       |

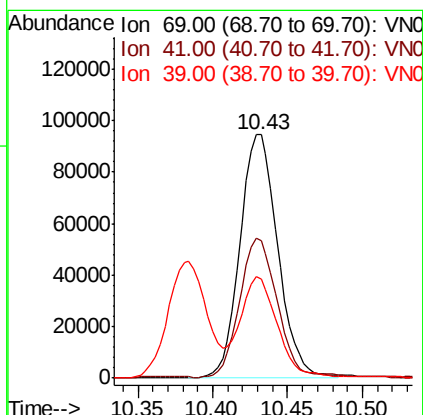
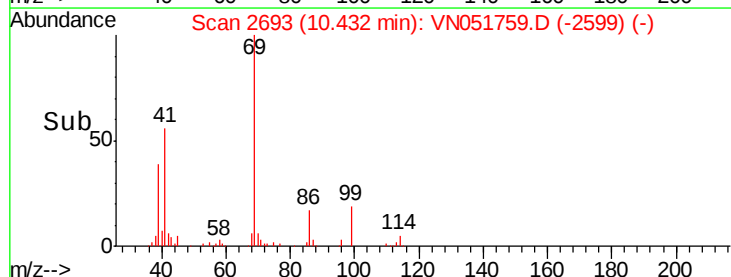
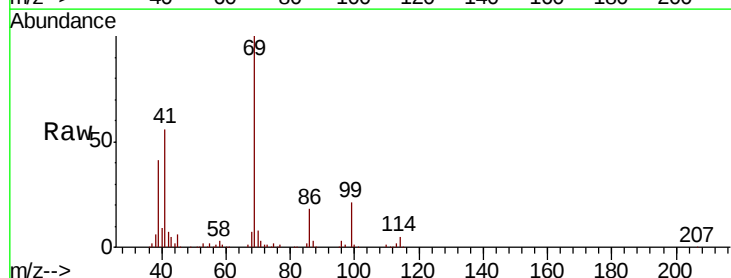
Manual Integrations  
 APPROVED

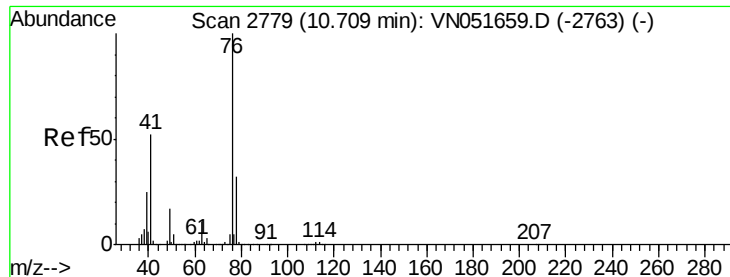
MMDadoda  
 10/10/2018 10:50:24 AM



#56  
 Ethyl methacrylate  
 Concen: 19.250 ug/l  
 RT: 10.43 min Scan# 2693  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 69      | 100  |       | 166661 |       |       |
| 41      | 56.9 | 46.4  | 69.6   |       |       |
| 39      | 41.1 | 32.4  | 48.6   |       |       |





#57

1,3-Dichloropropane

Concen: 19.793 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 76 Resp: 214470

Ion Ratio Lower Upper

76 100

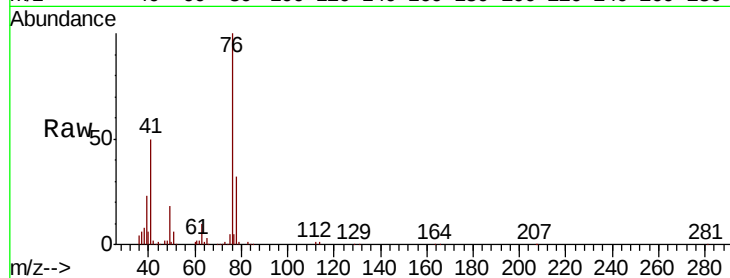
78 32.2 26.0 39.0

Manual Integrations

APPROVED

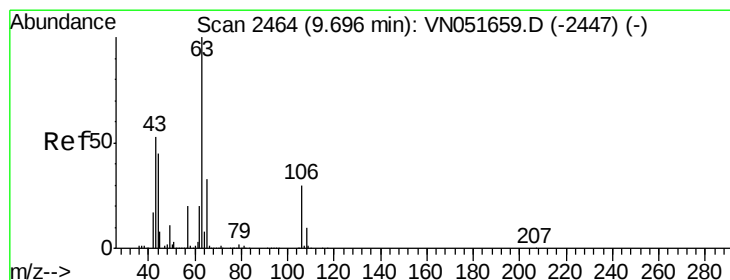
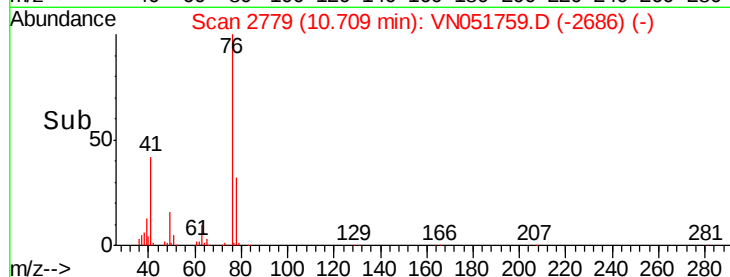
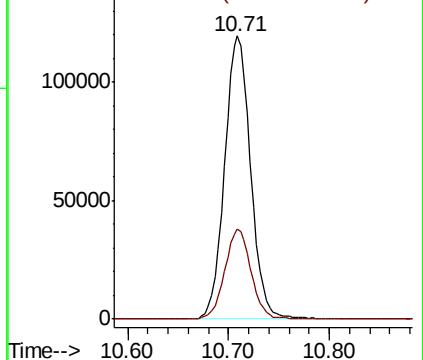
MMDadoda

10/10/2018 10:50:24 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 97.012 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051759.D

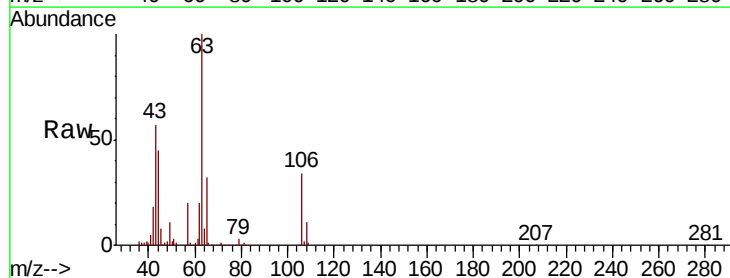
Acq: 9 Oct 2018 19:46

Tgt Ion: 63 Resp: 347610

Ion Ratio Lower Upper

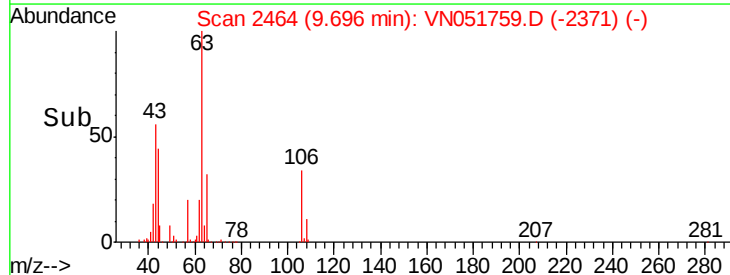
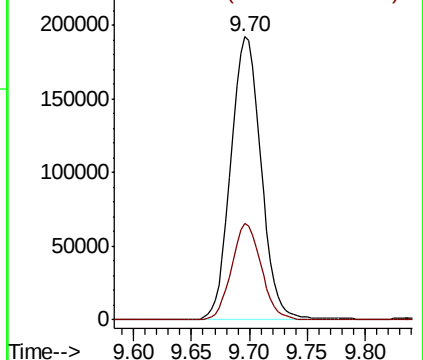
63 100

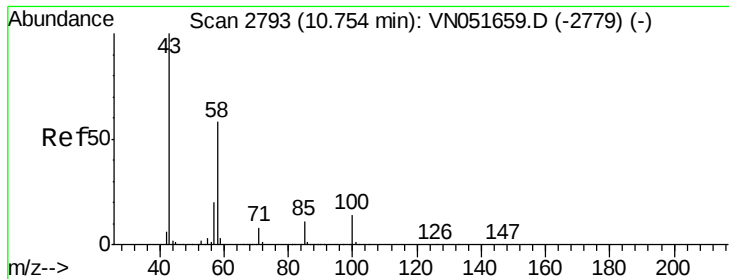
106 33.4 24.3 36.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





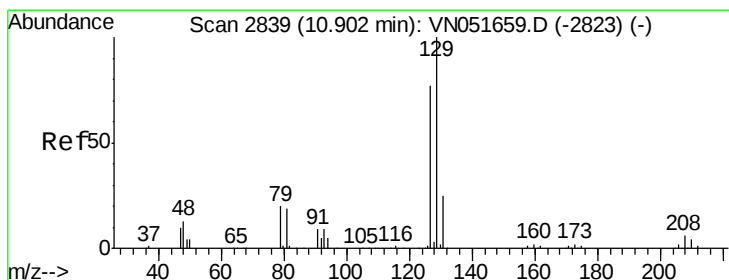
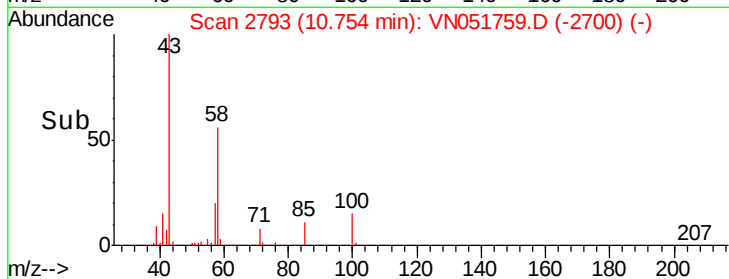
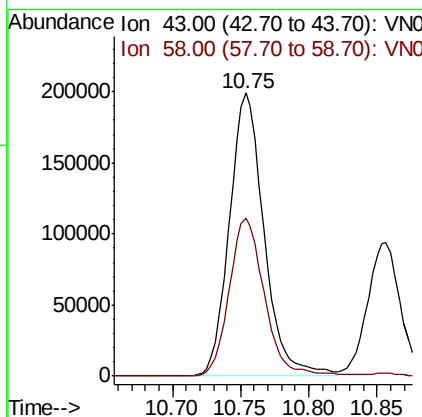
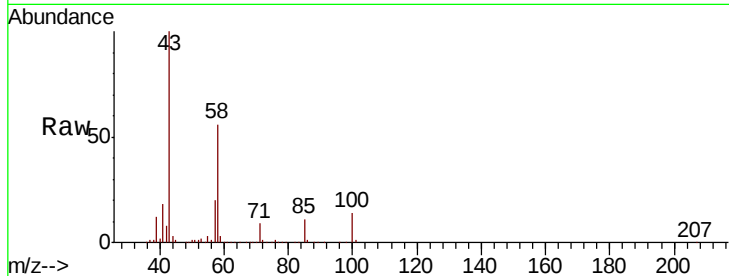
#59  
2-Hexanone  
Concen: 95.989 ug/l  
RT: 10.75 min Scan# 2793  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

Tot Ion: 43 Resp: 350119  
Ion Ratio Lower Upper  
43 100  
58 57.4 28.8 86.4

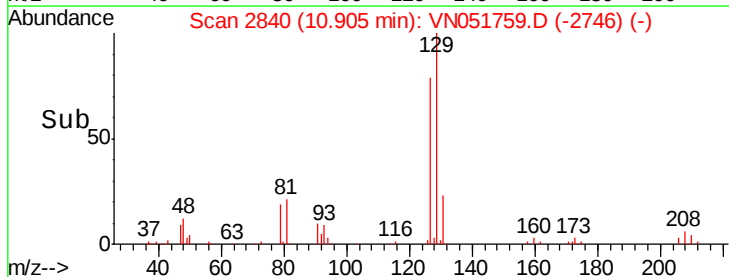
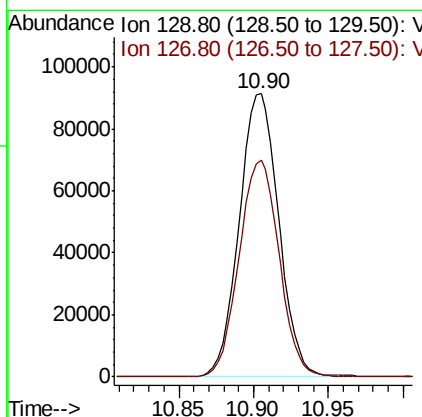
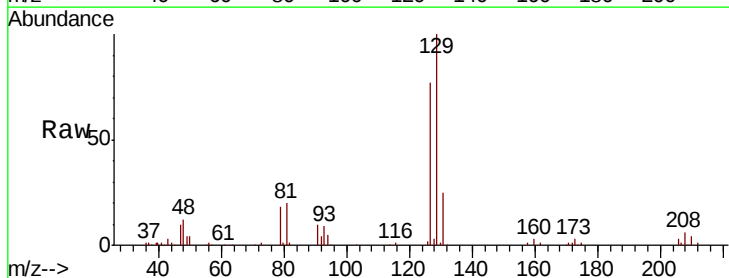
Manual Integrations  
APPROVED

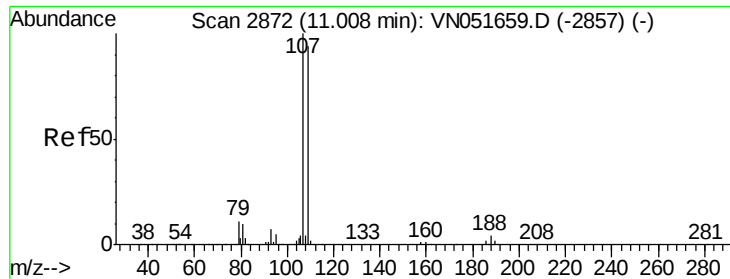
MMDadoda  
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#60  
Dibromochloromethane  
Concen: 18.759 ug/l  
RT: 10.90 min Scan# 2840  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Tgt Ion: 129 Resp: 168067  
Ion Ratio Lower Upper  
129 100  
127 77.5 38.6 115.7





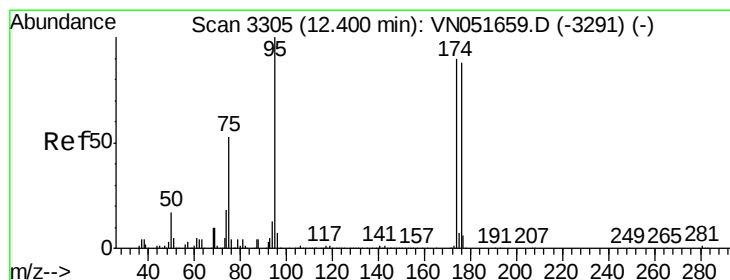
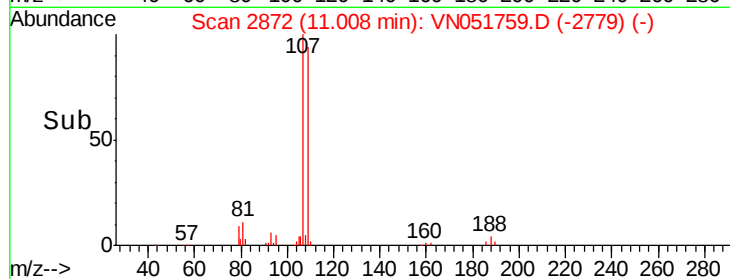
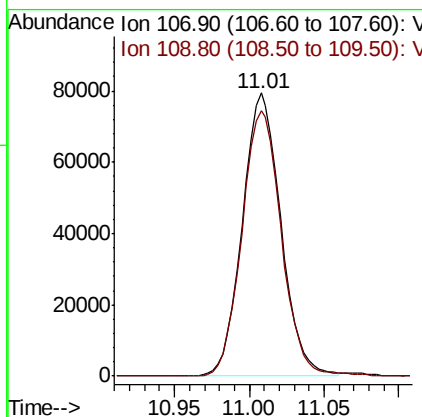
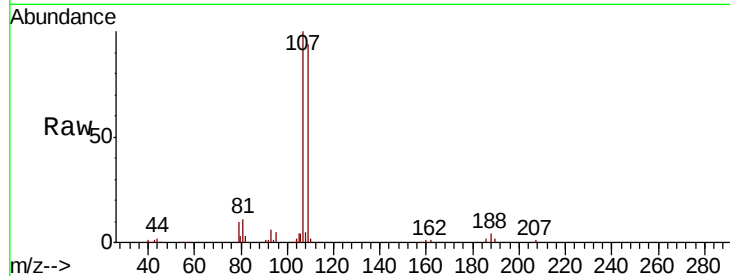
#61  
 1,2-Dibromoethane  
 Concen: 19.662 ug/l  
 RT: 11.01 min Scan# 2872  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 107     | 107 | 100   | 142301 |       |       |
| 109     | 109 | 96.4  | 75.4   | 113.0 |       |

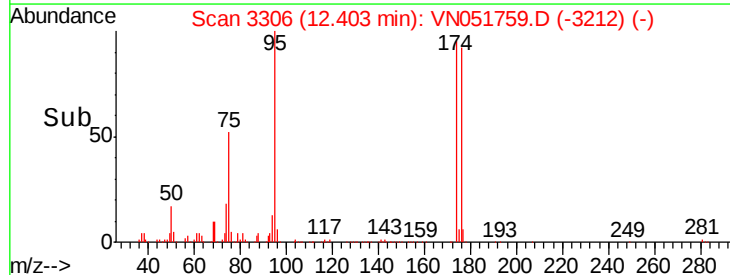
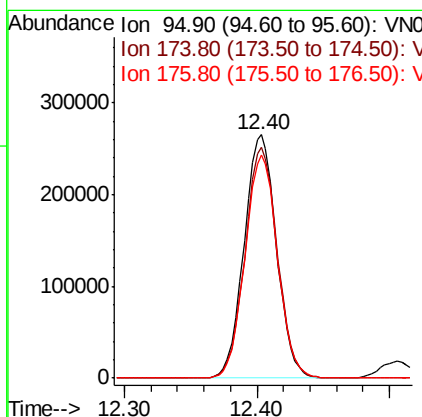
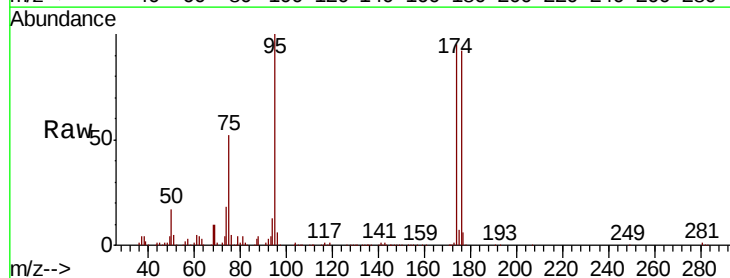
Manual Integrations  
 APPROVED

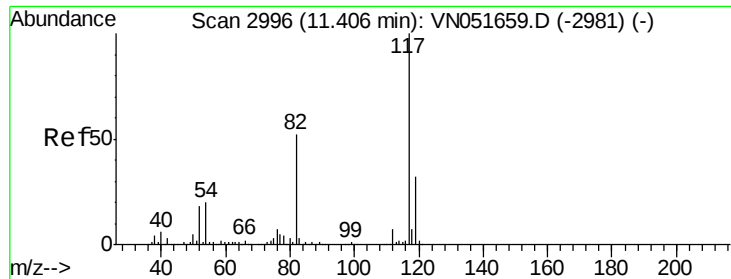
MMDadoda  
 10/10/2018 10:50:24 AM



#62  
 4-Bromofluorobenzene  
 Concen: 19.662 ug/l  
 RT: 12.40 min Scan# 3306  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 95      | 95  | 100   | 447784 |       |       |
| 174     | 174 | 95.2  | 0.0    | 182.8 |       |
| 176     | 176 | 92.2  | 0.0    | 176.4 |       |





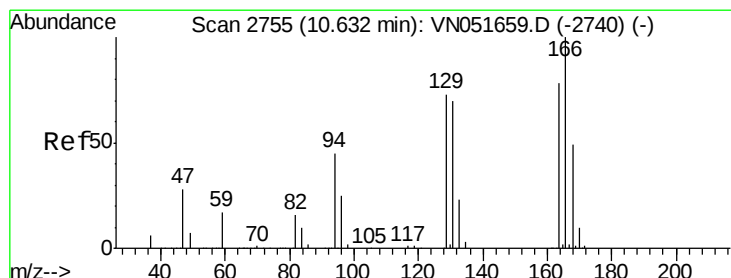
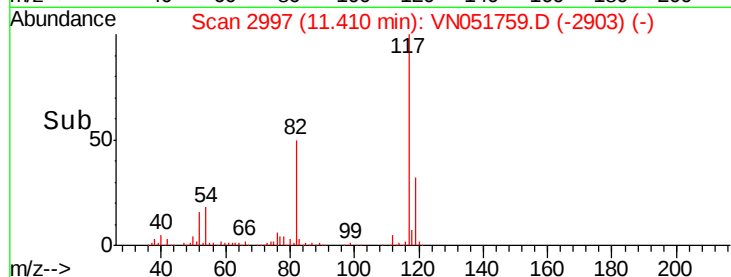
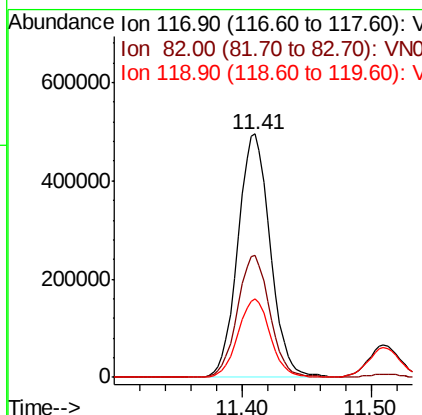
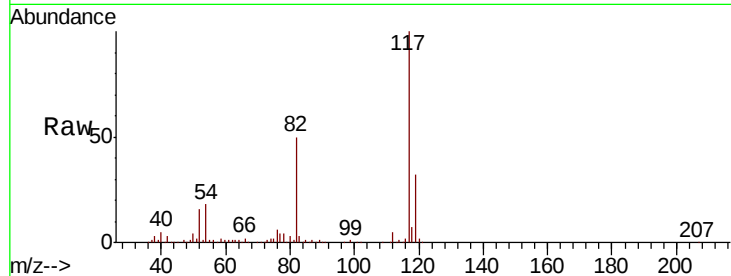
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 865630 |       |       |
| 82      | 49.9  |        | 41.3  | 61.9  |
| 119     | 32.2  |        | 25.9  | 38.9  |

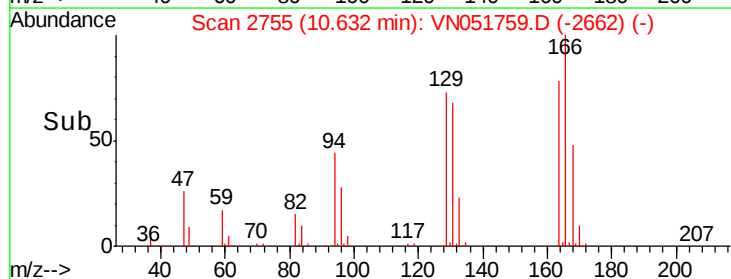
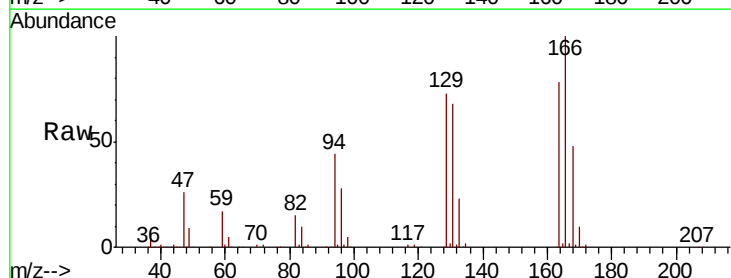
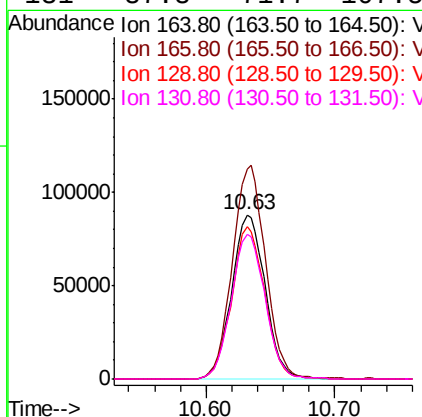
Manual Integrations  
APPROVED

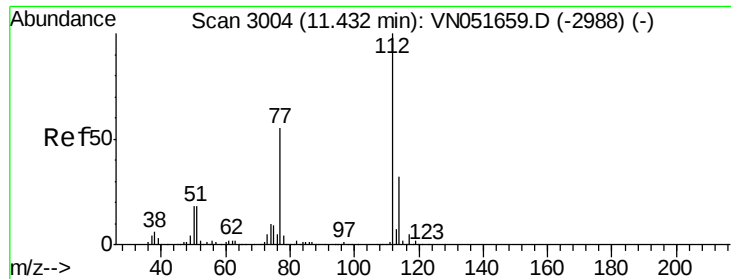
MMDadoda  
10/10/2018 10:50:24 AM



#64  
Tetrachloroethene  
Concen: 20.706 ug/l  
RT: 10.63 min Scan# 2755  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 158134 |       |       |
| 166     | 128.2 |        | 103.0 | 154.6 |
| 129     | 93.1  |        | 75.2  | 112.8 |
| 131     | 87.8  |        | 71.7  | 107.5 |





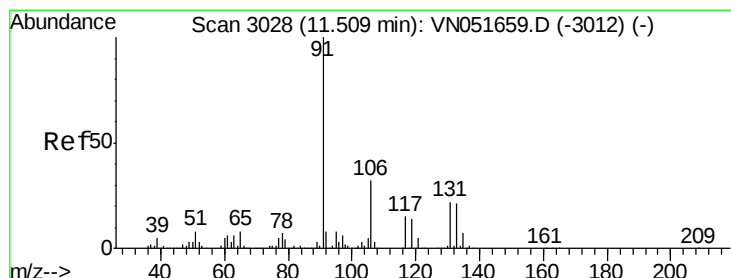
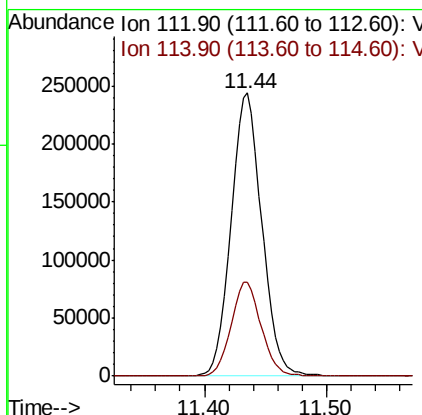
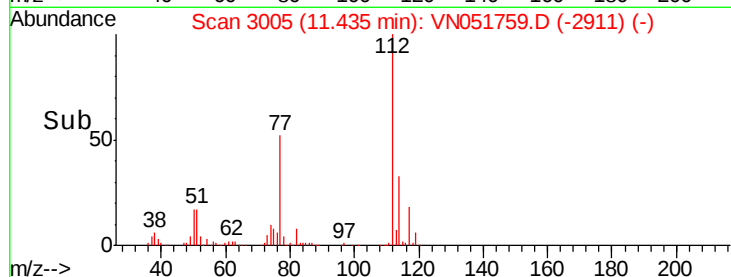
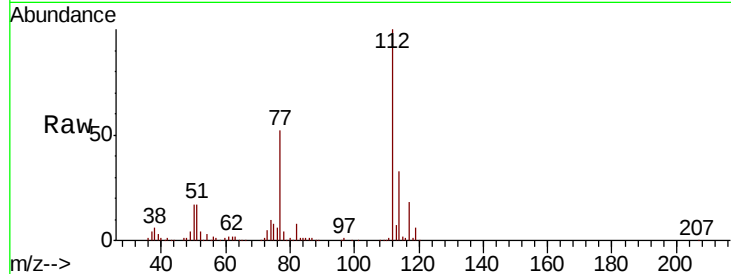
#65  
Chlorobenzene  
Concen: 19.902 ug/l  
RT: 11.44 min Scan# 3005  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

Tot Ion:112 Resp: 426684  
Ion Ratio Lower Upper  
112 100  
114 33.2 25.9 38.9

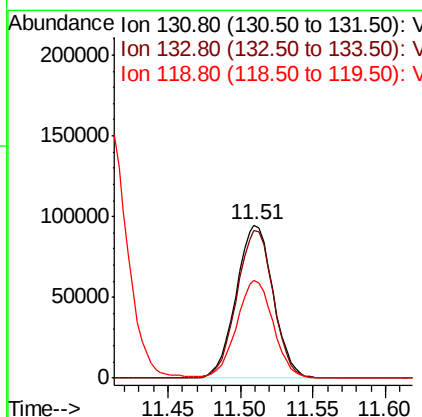
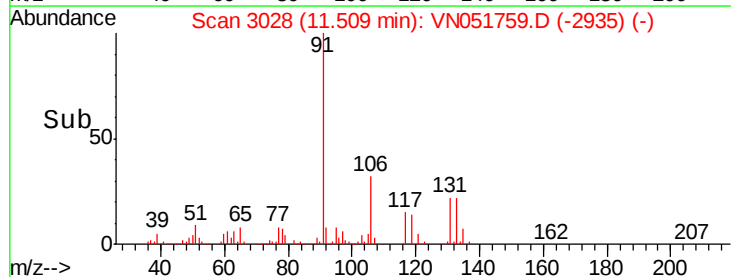
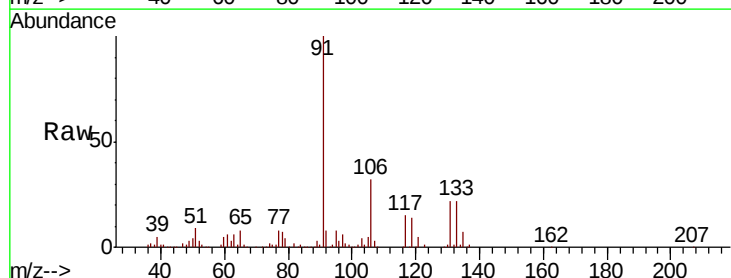
Manual Integrations  
APPROVED

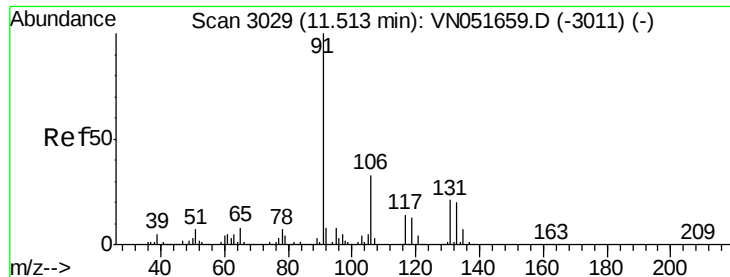
MMDadoda  
10/10/2018 10:50:24 AM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 19.582 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Tgt Ion:131 Resp: 168093  
Ion Ratio Lower Upper  
131 100  
133 95.1 47.6 142.8  
119 63.2 32.0 96.0





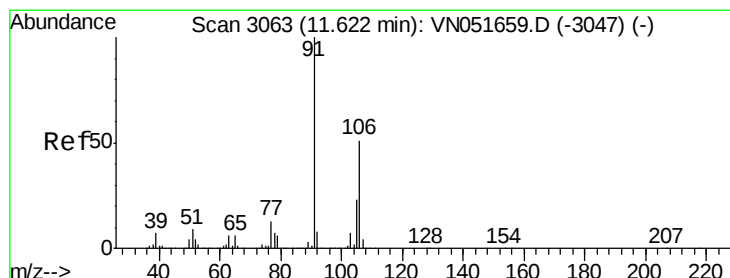
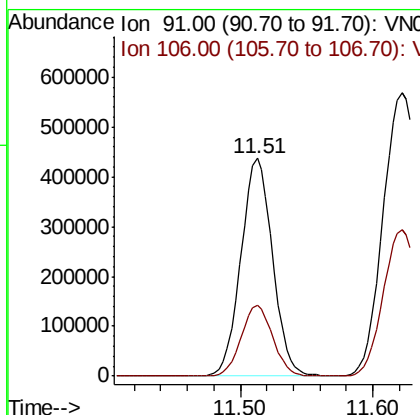
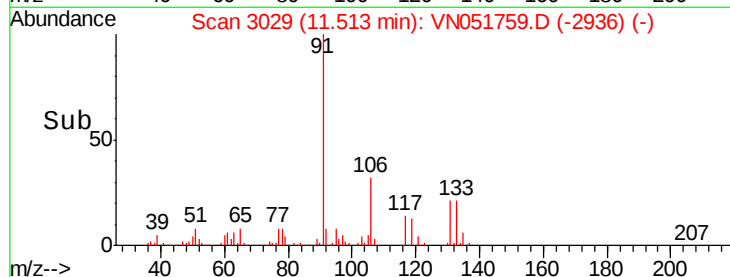
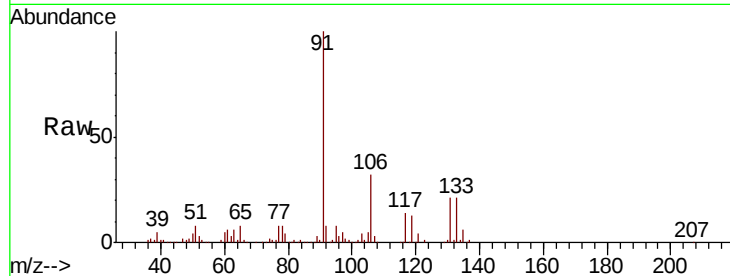
#67  
Ethyl Benzene  
Concen: 19.555 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

Tot Ion: 91 Resp: 724629  
Ion Ratio Lower Upper  
91 100  
106 32.4 26.0 39.0

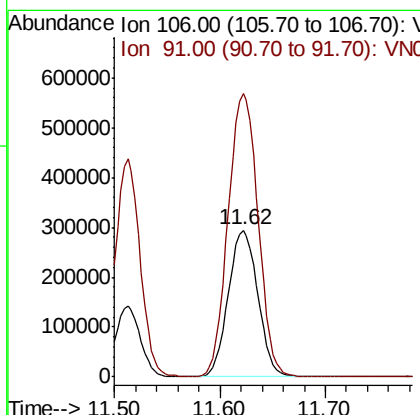
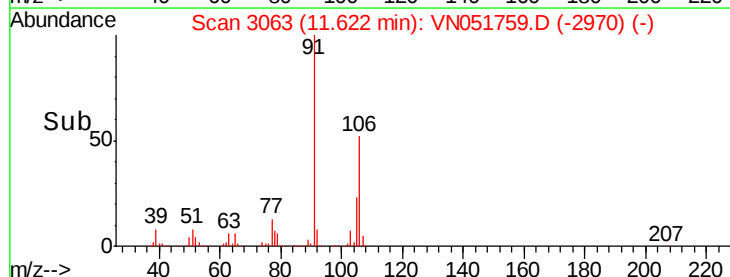
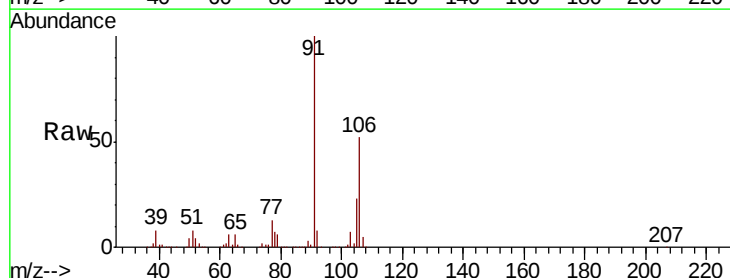
Manual Integrations  
APPROVED

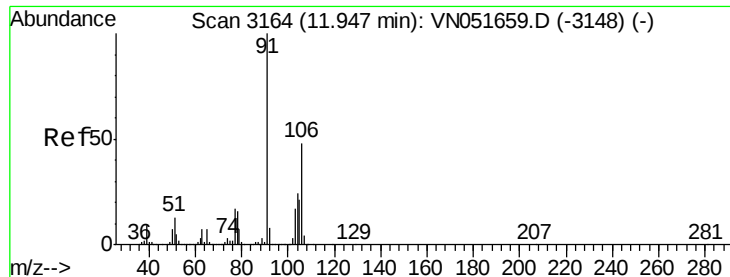
MMDadoda  
10/10/2018 10:50:24 AM



#68  
m/p-Xylenes  
Concen: 38.574 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Tgt Ion: 106 Resp: 571920  
Ion Ratio Lower Upper  
106 100  
91 195.0 158.4 237.6





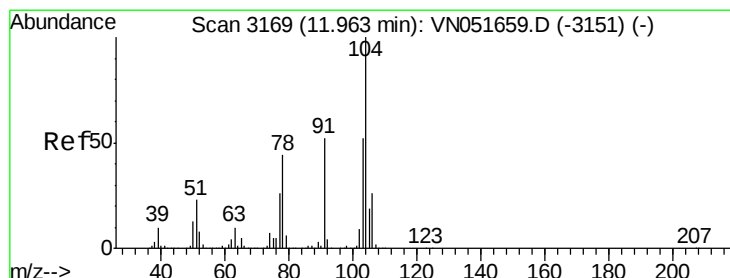
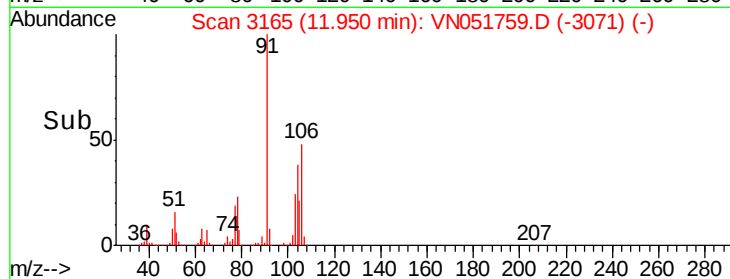
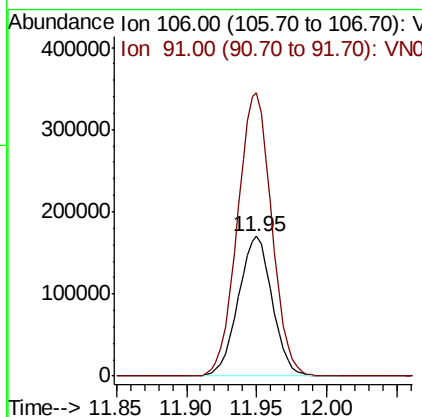
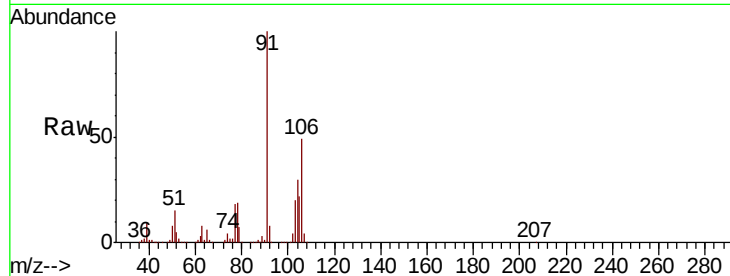
#69  
o-Xylene  
Concen: 19.682 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 106     | 106 | 100   | 286185 |       |       |
| 91      | 91  | 204.5 | 104.4  | 313.2 |       |

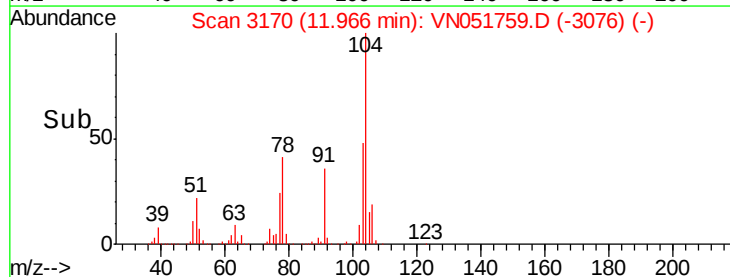
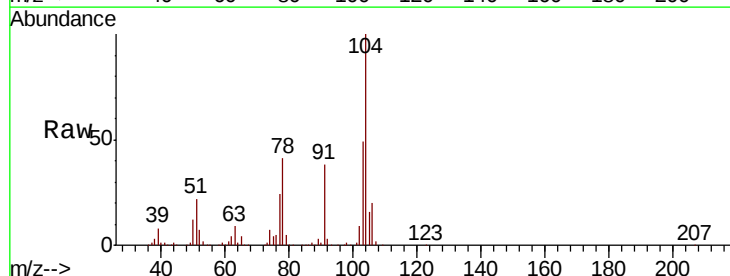
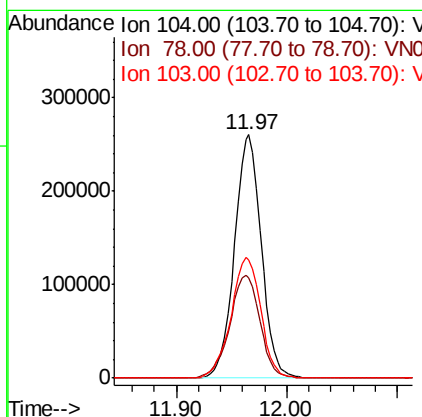
Manual Integrations  
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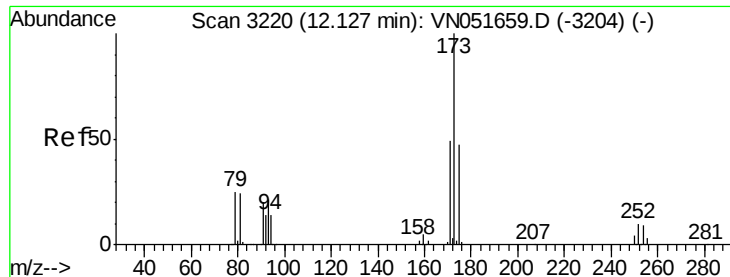
MMDadoda  
10/10/2018 10:50:24 AM



#70  
Styrene  
Concen: 18.922 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 104     | 104 | 100   | 438412 |       |       |
| 78      | 78  | 47.7  | 39.3   | 58.9  |       |
| 103     | 103 | 55.0  | 45.0   | 67.6  |       |





#71

Bromoform

Concen: 17.463 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion:173 Resp: 111502

Ion Ratio Lower Upper

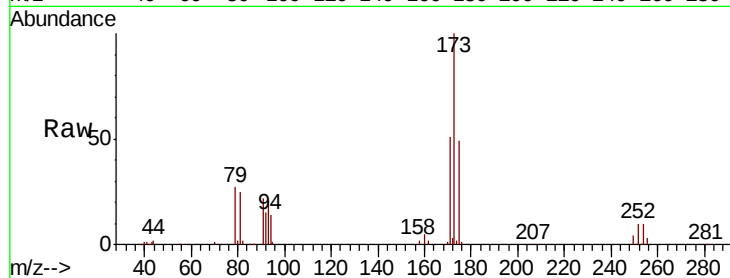
173 100

175 50.6 24.0 72.0

254 0.0 0.1 0.1#

Manual Integrations  
APPROVED

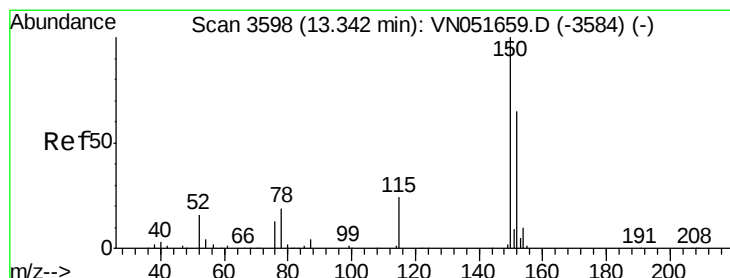
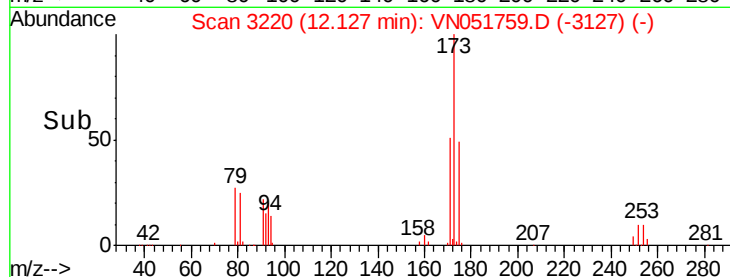
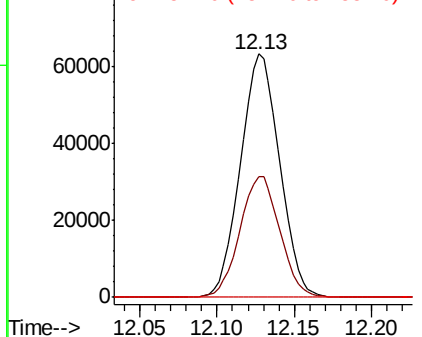
MMDadoda  
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

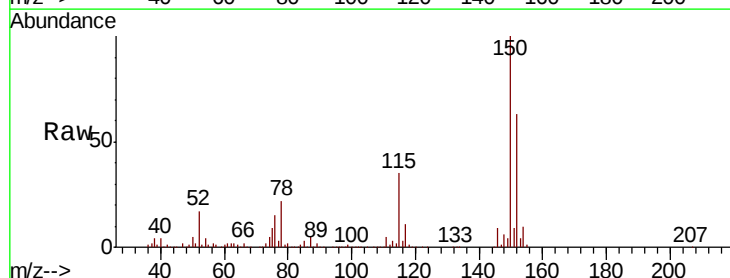
Tgt Ion:152 Resp: 431849

Ion Ratio Lower Upper

152 100

115 55.2 28.6 85.8

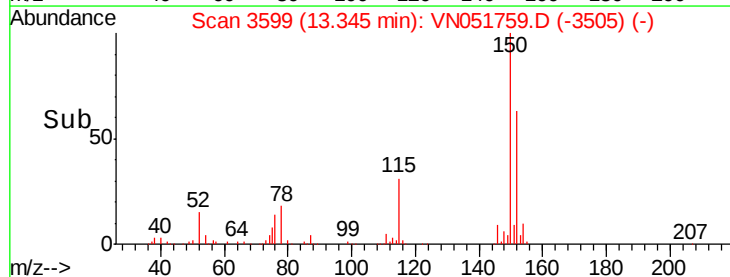
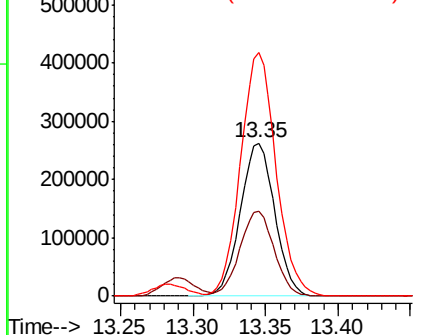
150 164.4 0.0 352.4

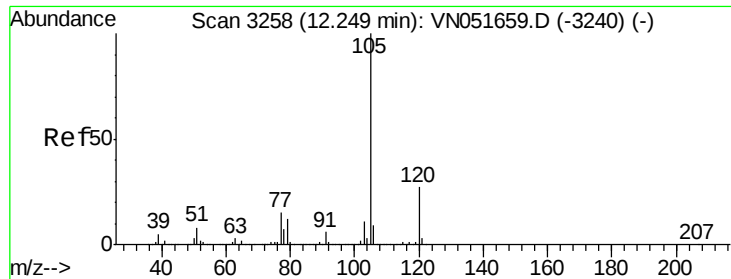


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.495 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 105 Resp: 754457

Ion Ratio Lower Upper

105 100

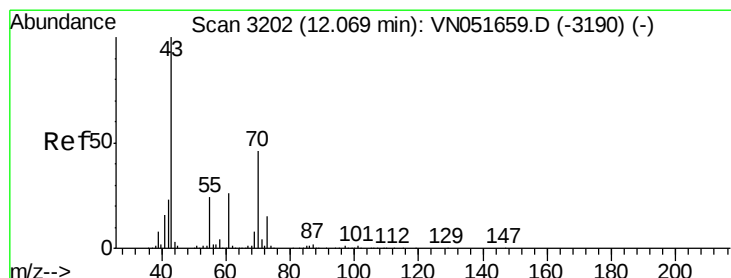
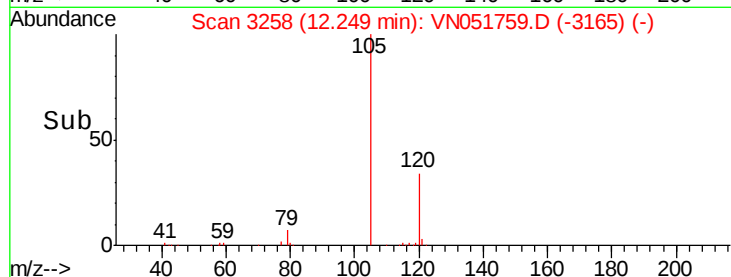
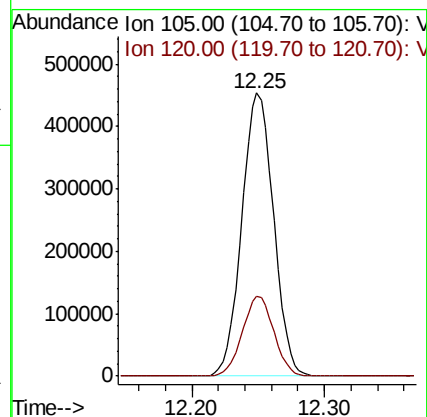
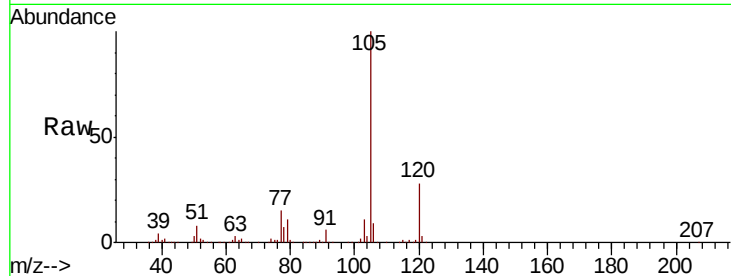
120 28.0 13.9 41.6

Manual Integrations

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#74

N-ethyl acetate

Concen: 18.881 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Tgt Ion: 43 Resp: 159201

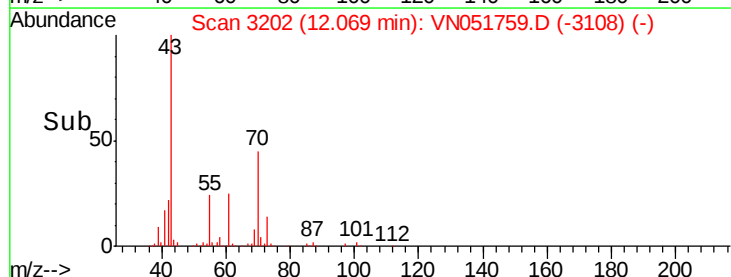
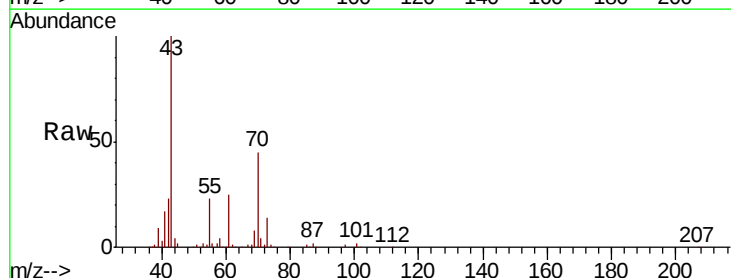
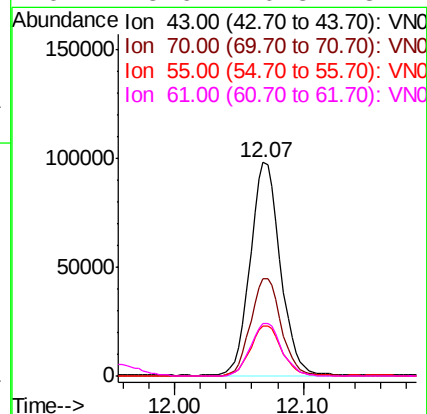
Ion Ratio Lower Upper

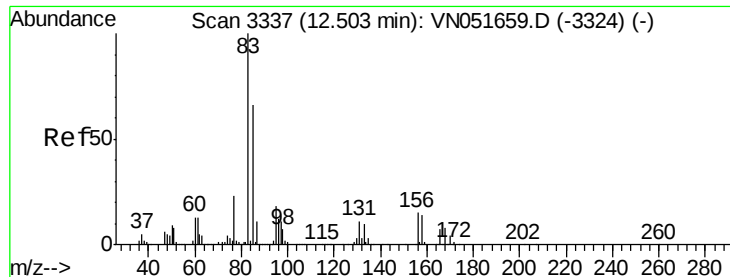
43 100

70 46.6 37.1 55.7

55 24.7 19.1 28.7

61 25.6 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.544 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 83 Resp: 169497  
Ion Ratio Lower Upper

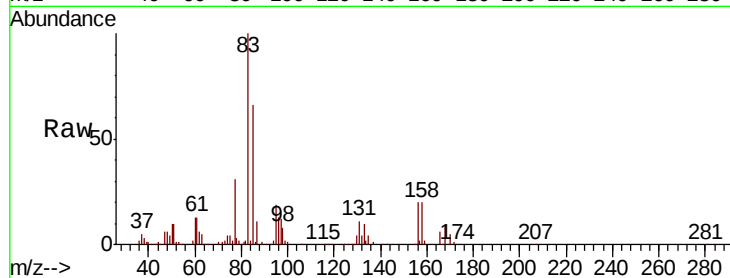
83 100

131 11.3 5.7 17.1

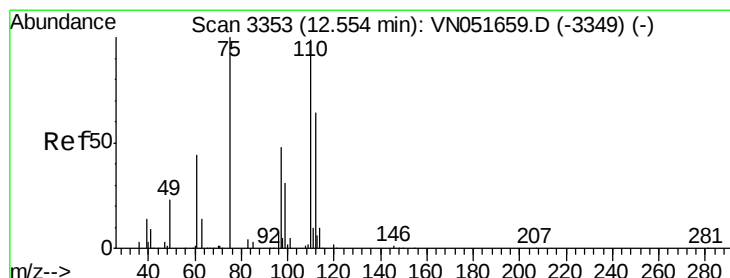
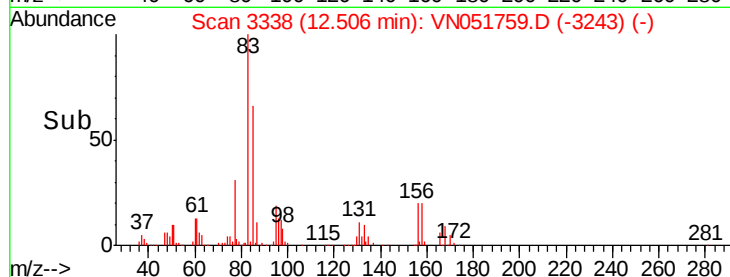
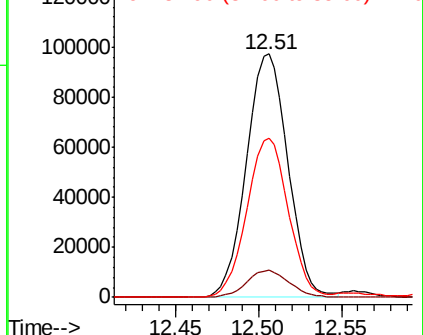
85 65.1 33.0 98.9

Manual Integrations  
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Abundance Ion 82.90 (82.60 to 83.60): VNC  
Ion 130.80 (130.50 to 131.50): VNC  
Ion 84.90 (84.60 to 85.60): VNC



#76

1,2,3-Trichloropropane

Concen: 23.358 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

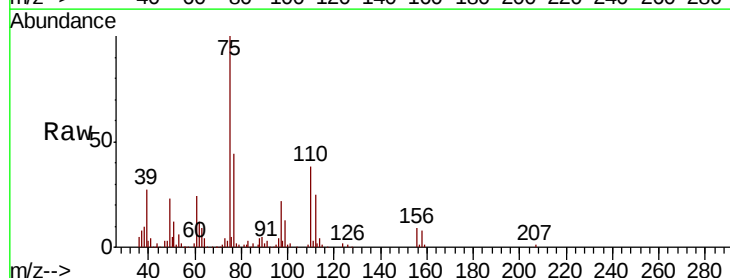
Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

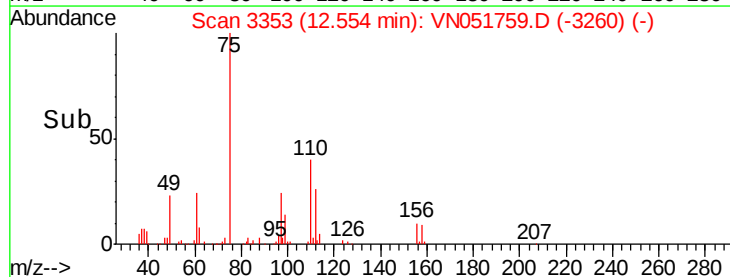
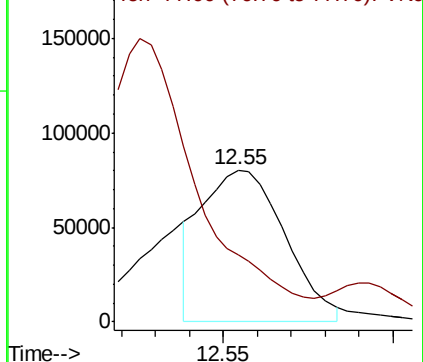
Tgt Ion: 75 Resp: 137067  
Ion Ratio Lower Upper

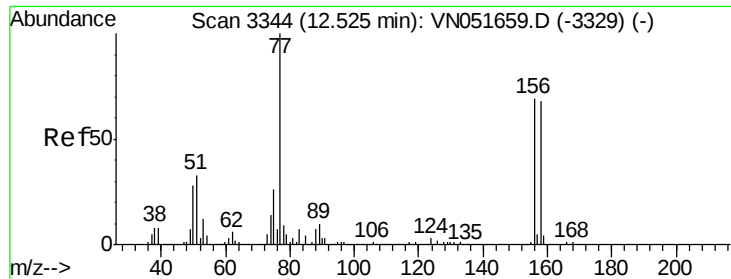
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC  
Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 20.564 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

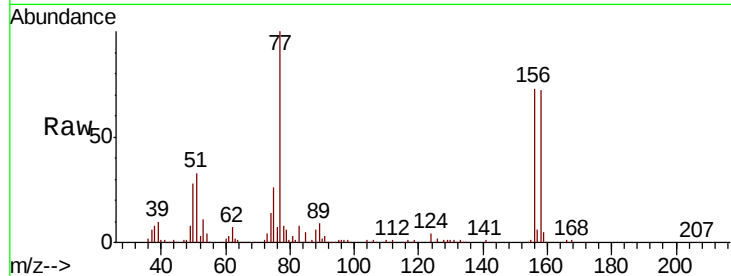
ClientSampleId :

VN1009WBSD02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 185098 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 163.4 | 83.2  | 249.4  |
| 158       | 97.3  | 49.0  | 147.2  |

Manual Integrations  
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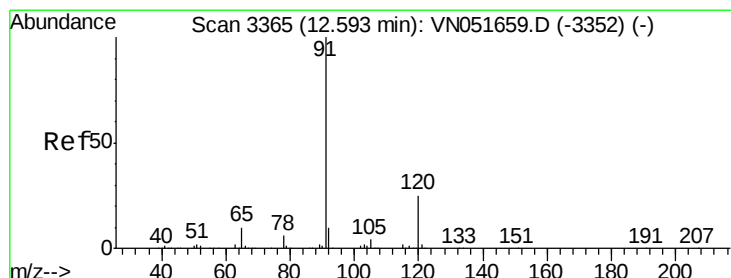
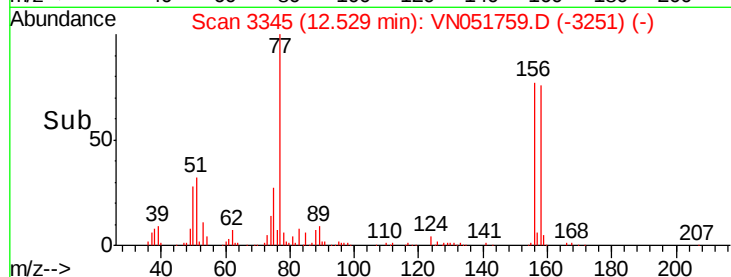
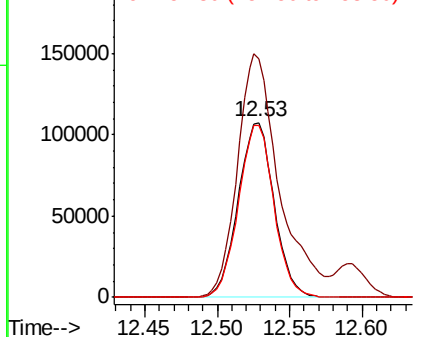
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.970 ug/l

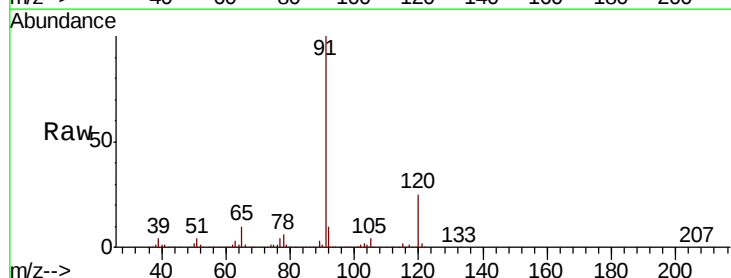
RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051759.D

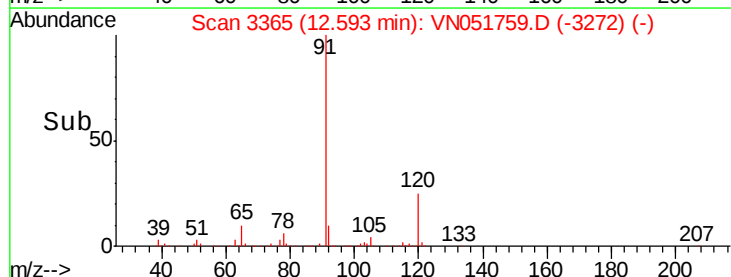
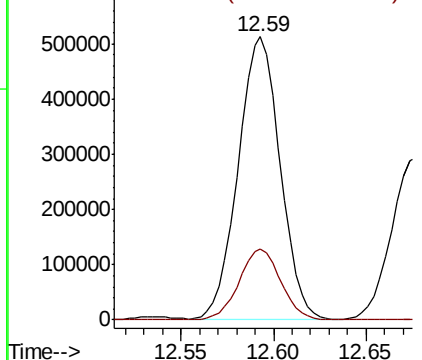
Acq: 9 Oct 2018 19:46

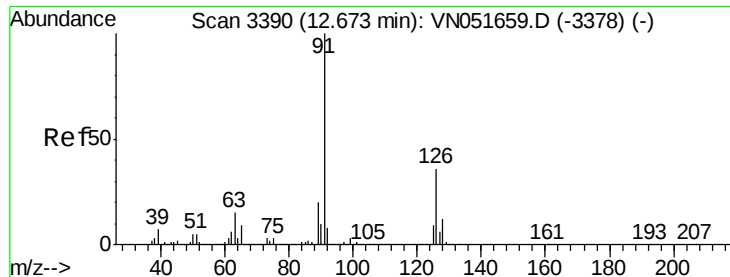
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 801832 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 25.0  | 12.4  | 37.2   |



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.378 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleId :

VN1009WBSD02

Tot Ion: 91 Resp: 482223

Ion Ratio Lower Upper

91 100

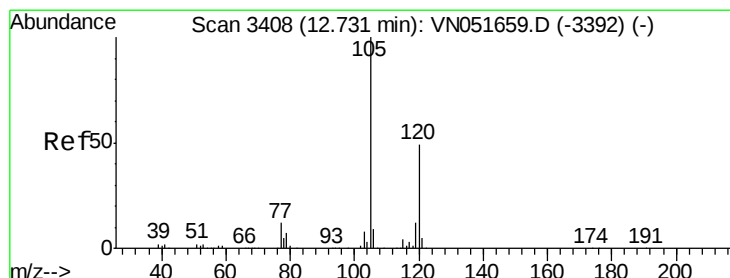
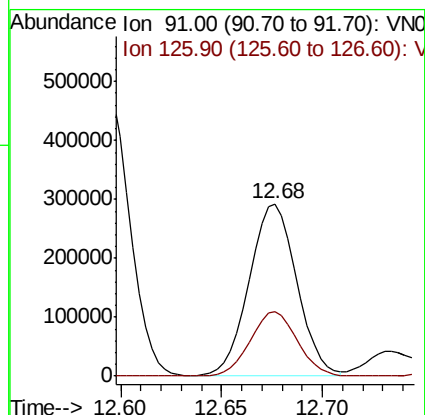
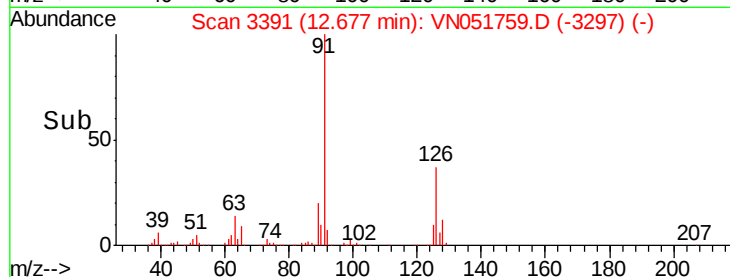
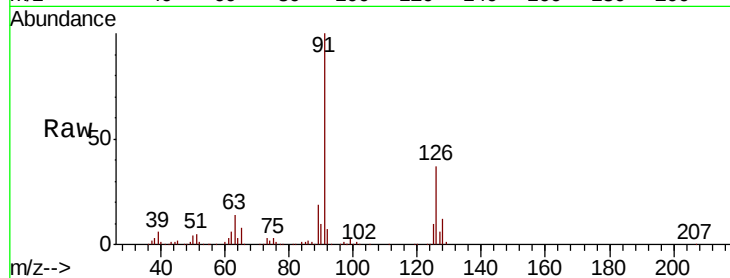
126 37.3 18.5 55.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.335 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051759.D

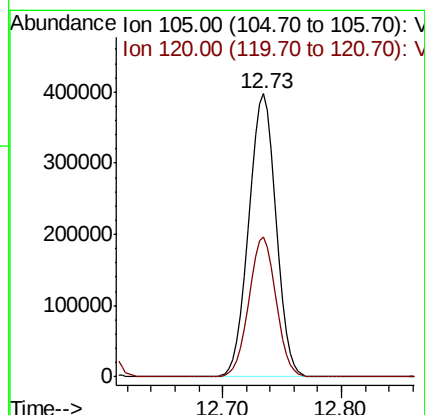
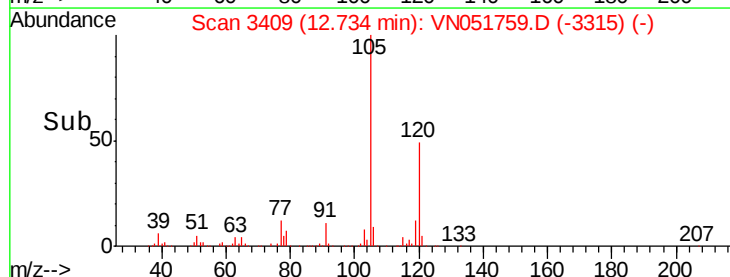
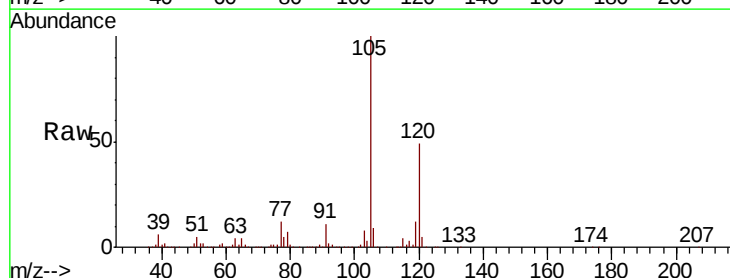
Acq: 9 Oct 2018 19:46

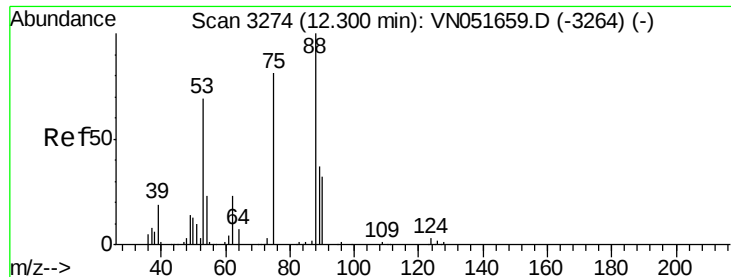
Tgt Ion: 105 Resp: 630861

Ion Ratio Lower Upper

105 100

120 49.2 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.139 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

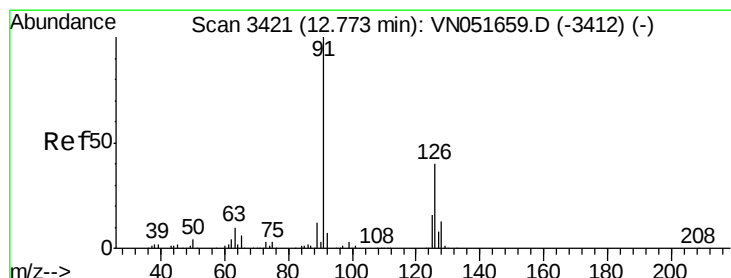
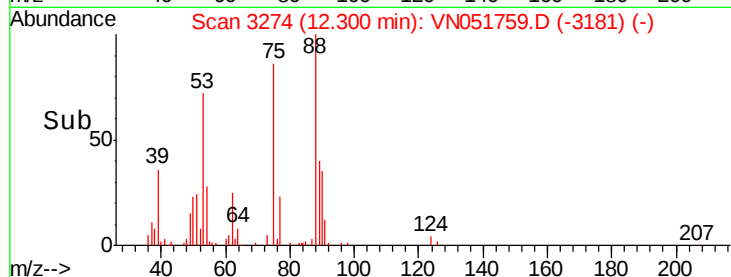
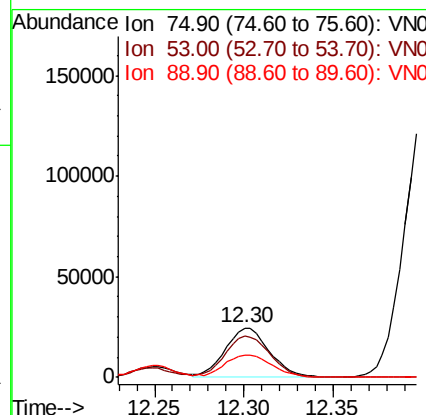
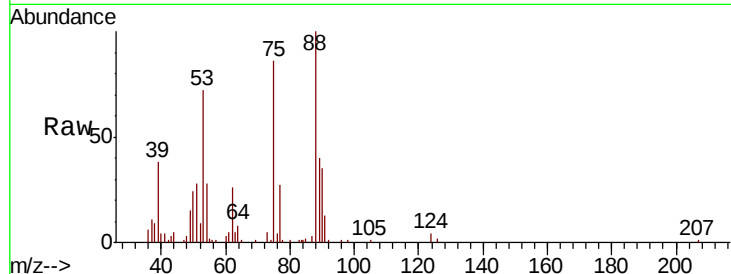
ClientSampleId :

VN1009WBSD02

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 42615 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 84.5  | 68.6  | 102.8 |
| 89       | 48.9  | 39.4  | 59.2  |

Manual Integrations  
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#82

4-Chlorotoluene

Concen: 19.905 ug/l

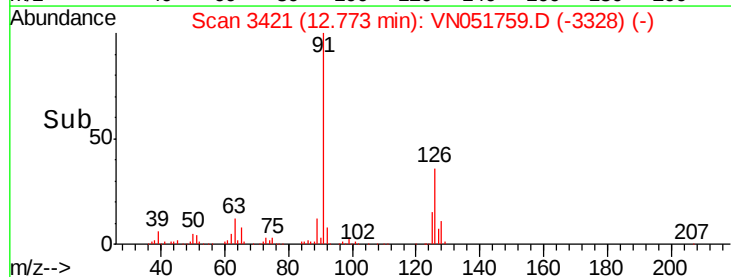
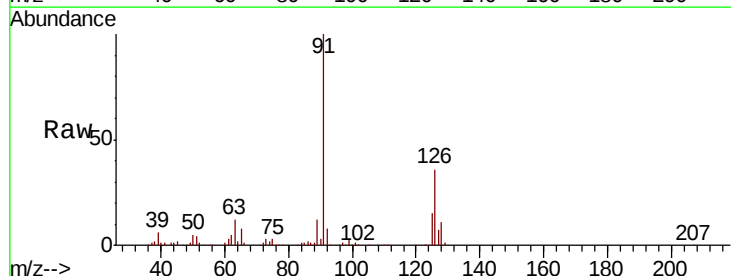
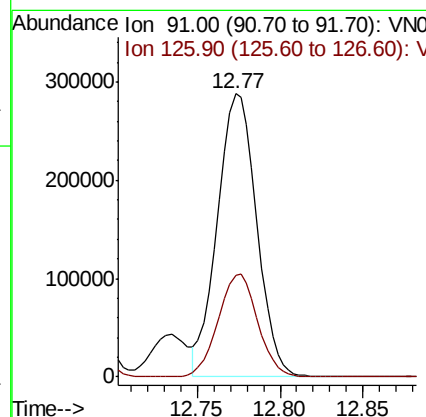
RT: 12.77 min Scan# 3421

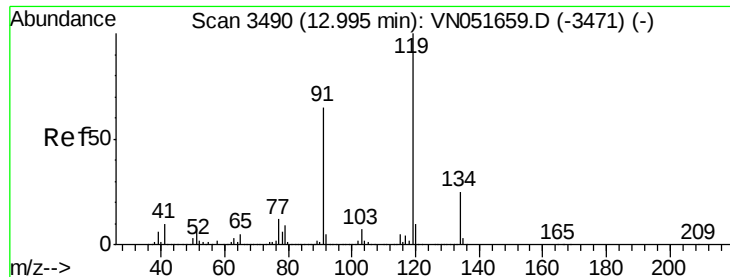
Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 473184 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 36.5  | 18.0  | 54.0   |





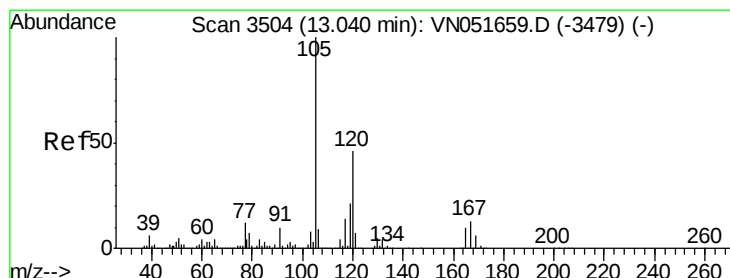
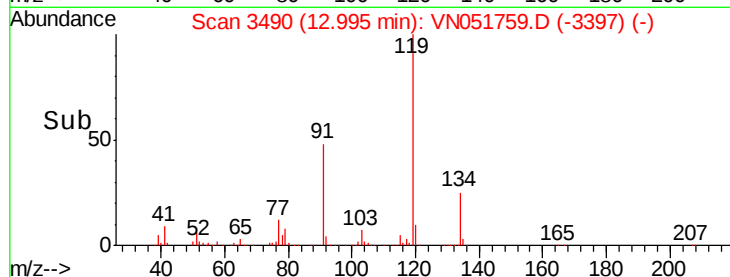
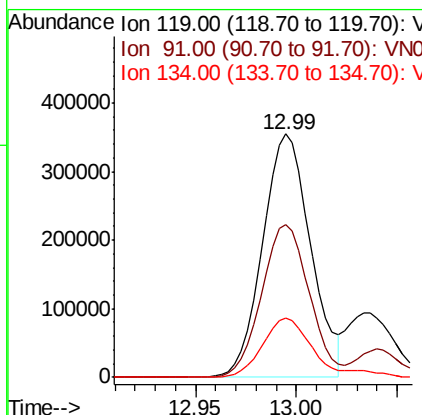
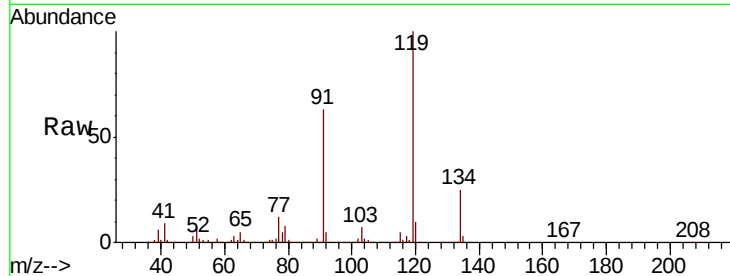
#83  
tert-Butylbenzene  
Concen: 21.137 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 587568 |       |       |
| 91      | 62.5  |        | 32.1  | 96.5  |
| 134     | 26.0  |        | 13.3  | 39.9  |

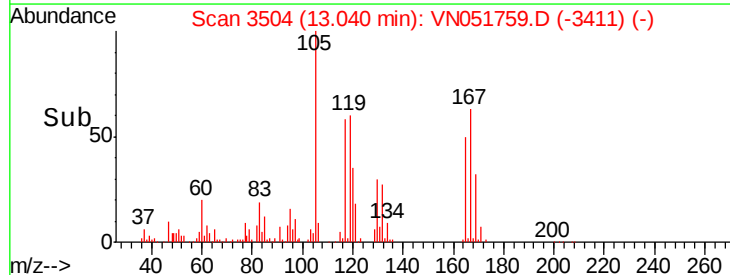
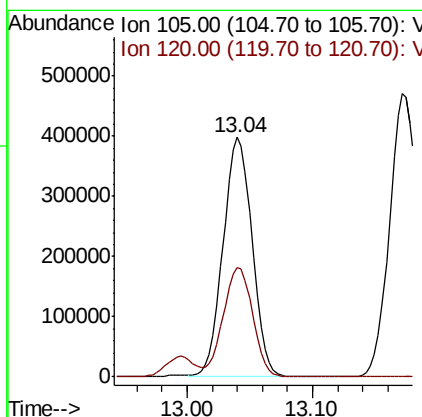
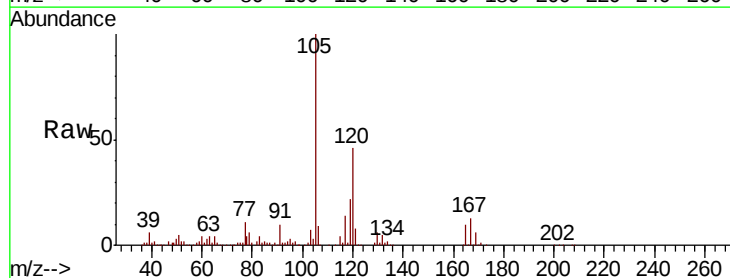
Manual Integrations  
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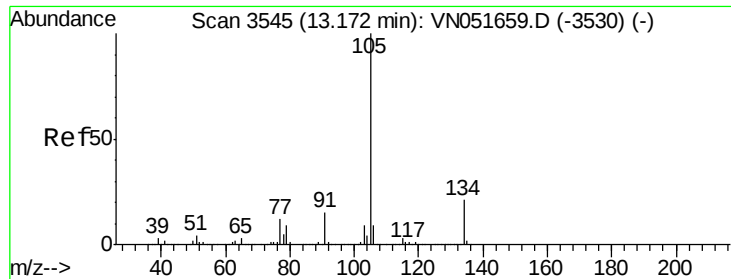
MMDadoda  
10/10/2018 10:50:24 AM



#84  
1,2,4-Trimethylbenzene  
Concen: 20.557 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 638782 |       |       |
| 120     | 46.6  |        | 22.9  | 68.7  |





#85

sec-Butylbenzene

Concen: 20.534 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

Instrument :

MSVOA\_N

ClientSampleID :

VN1009WBSD02

Tot Ion:105 Resp: 755048

Ion Ratio Lower Upper

105 100

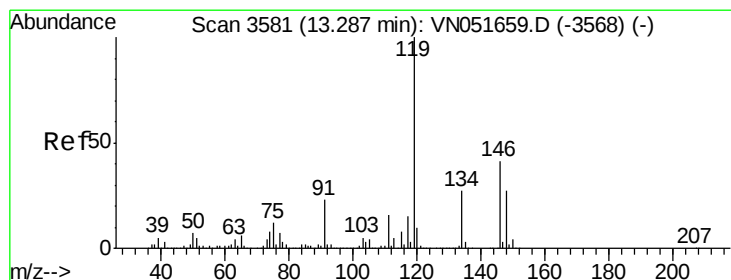
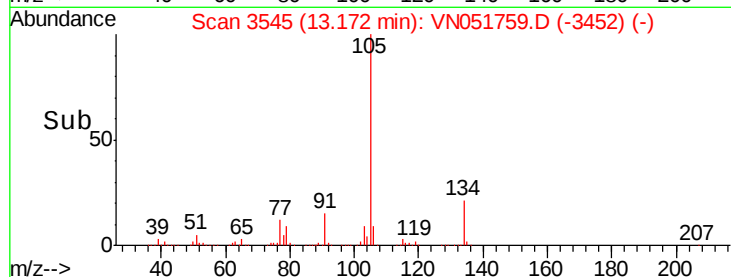
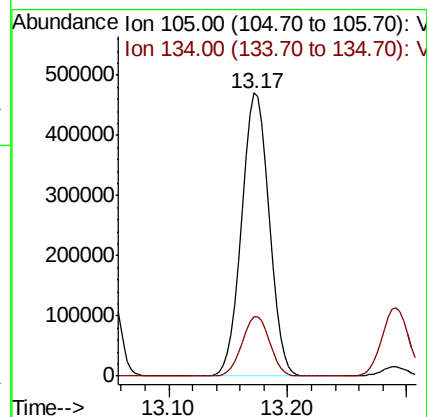
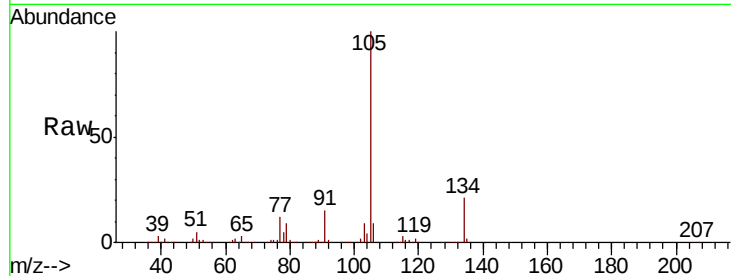
134 21.2 10.5 31.6

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#86

p-Isopropyltoluene

Concen: 20.209 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051759.D

Acq: 9 Oct 2018 19:46

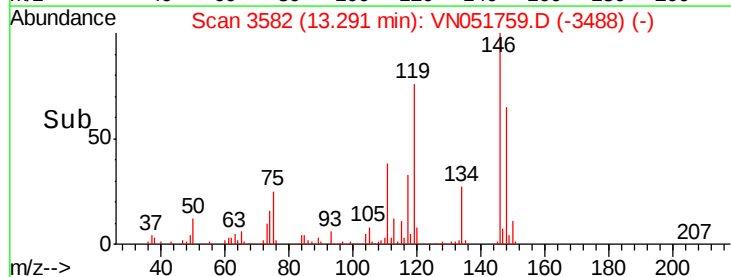
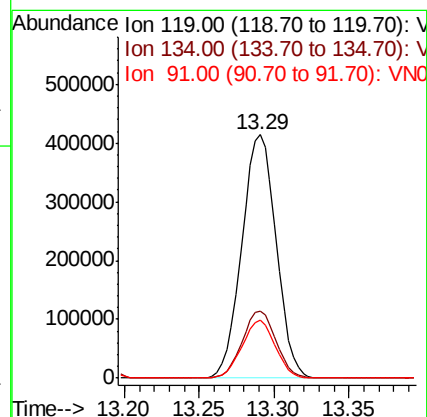
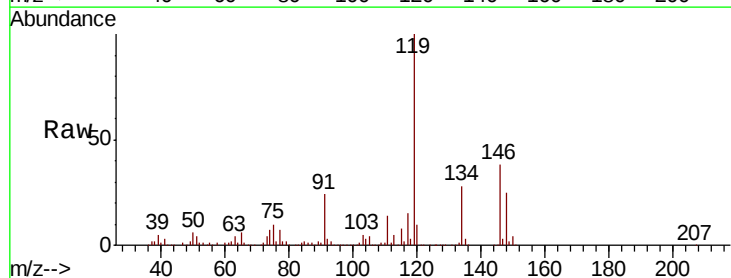
Tgt Ion:119 Resp: 658776

Ion Ratio Lower Upper

119 100

134 27.1 13.4 40.2

91 23.1 11.7 35.1





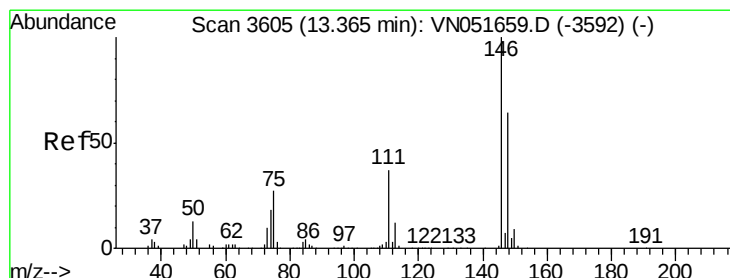
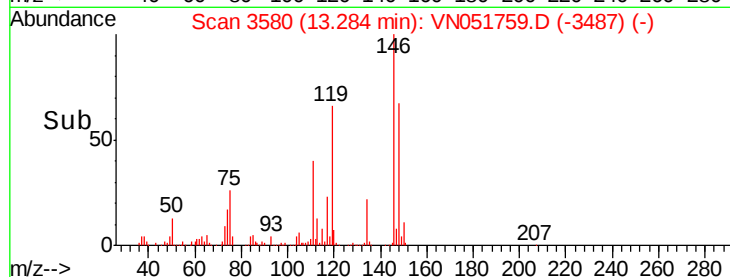
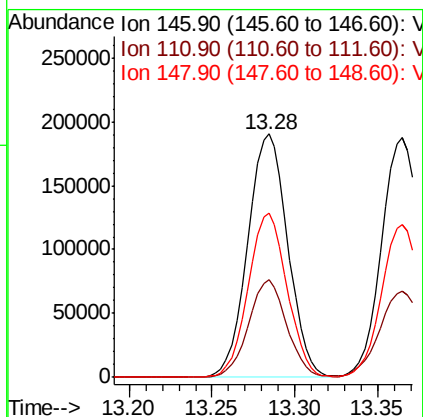
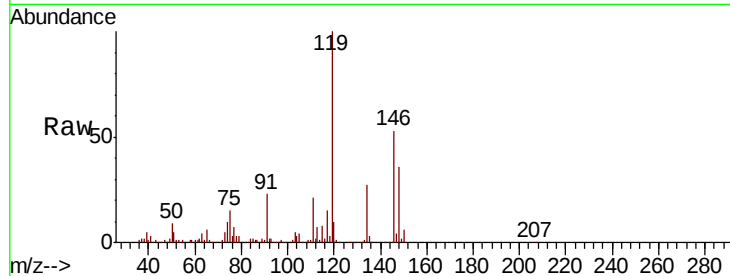
#87  
 1,3-Dichlorobenzene  
 Concen: 20.312 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 146     | 100   |      |       |       |
| 111     | 38.2  | 19.3 | 57.9  |       |
| 148     | 65.7  | 32.5 | 97.5  |       |

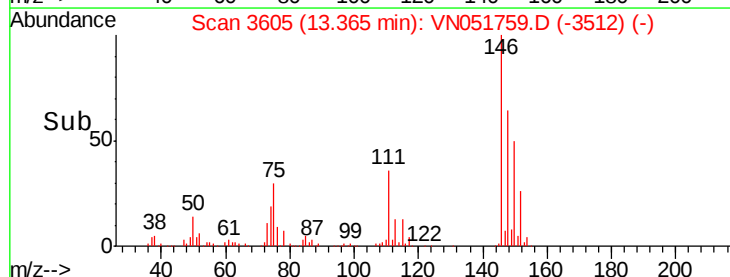
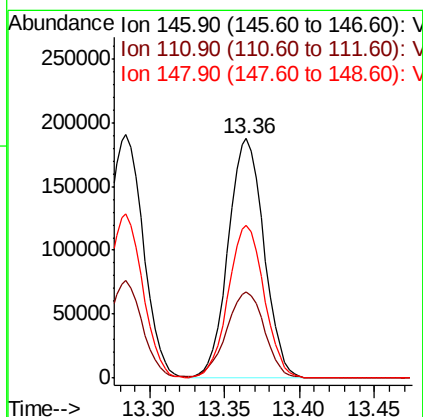
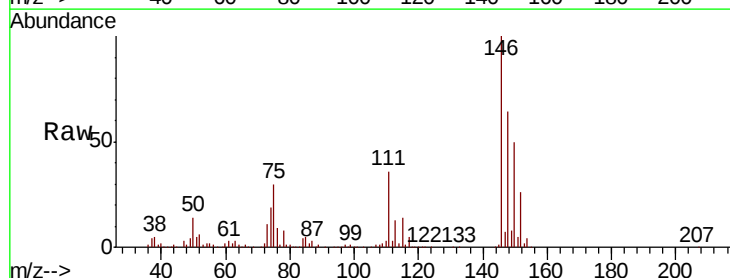
Manual Integrations  
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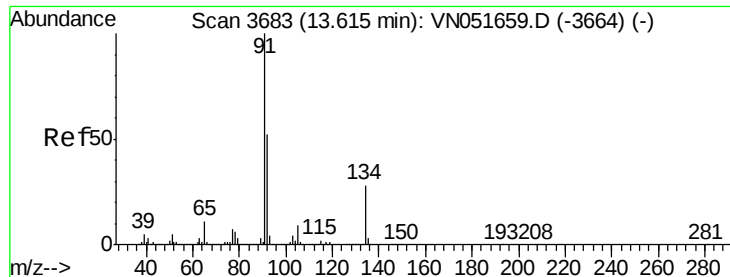
MMDadoda  
 10/10/2018 10:50:24 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 20.206 ug/l  
 RT: 13.36 min Scan# 3605  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 146     | 100   |      |       |       |
| 111     | 38.5  | 18.6 | 55.8  |       |
| 148     | 64.3  | 32.3 | 96.8  |       |





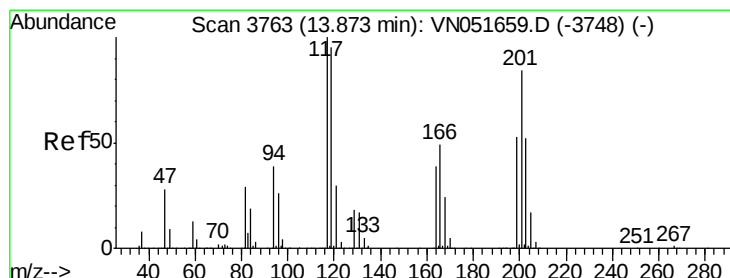
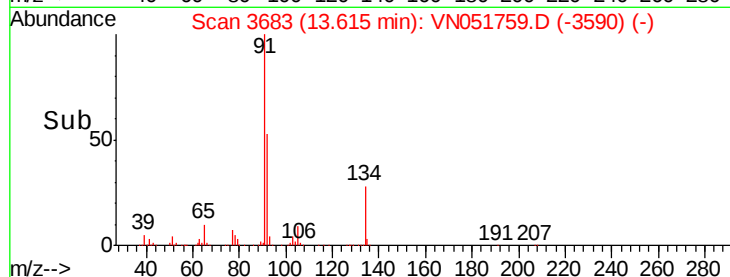
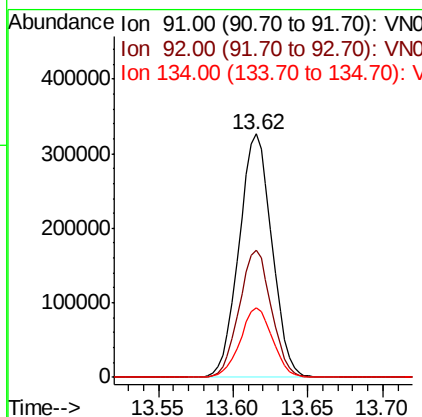
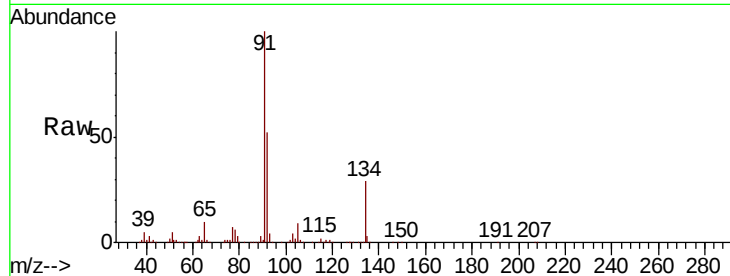
#89  
n-Butylbenzene  
Concen: 19.381 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.2  | 26.0  | 78.0  |
| 134     | 28.2  | 14.2  | 42.6  |

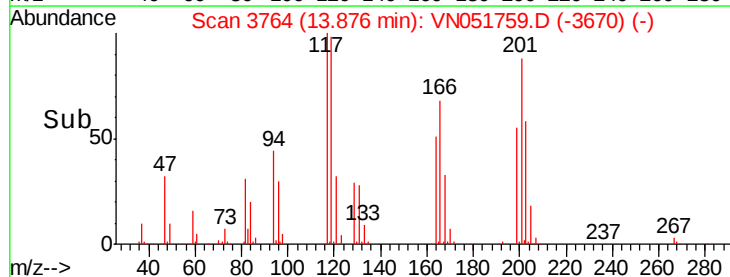
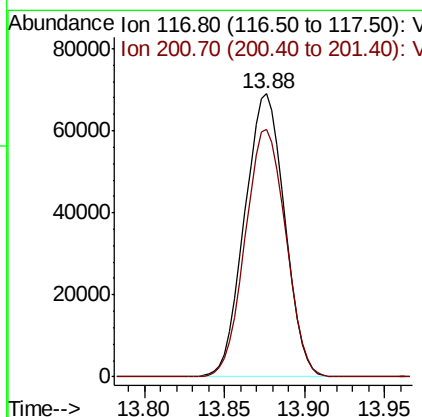
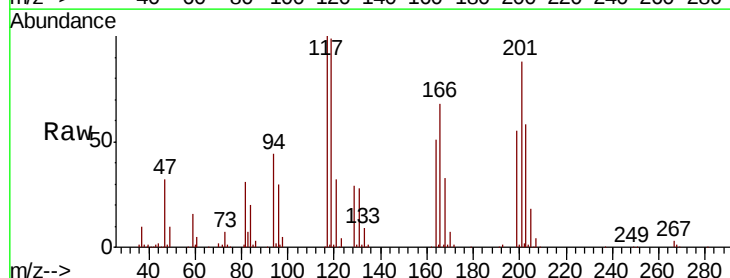
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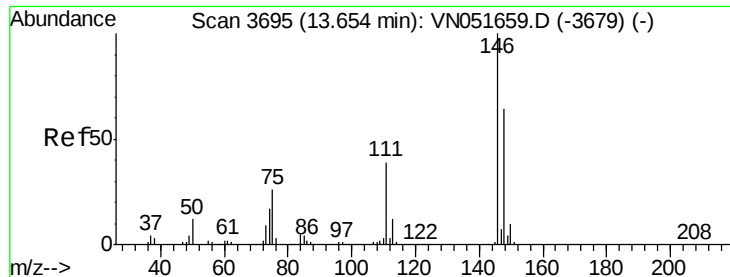
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#90  
Hexachloroethane  
Concen: 18.233 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 88.5  | 42.4  | 127.3 |





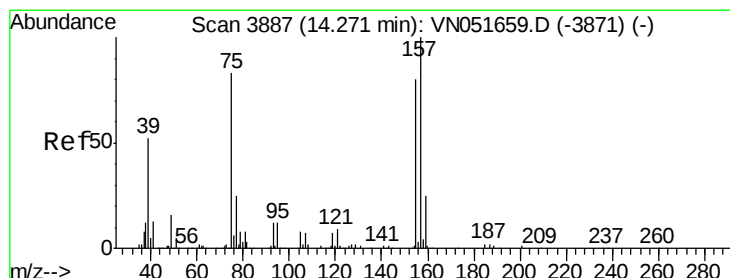
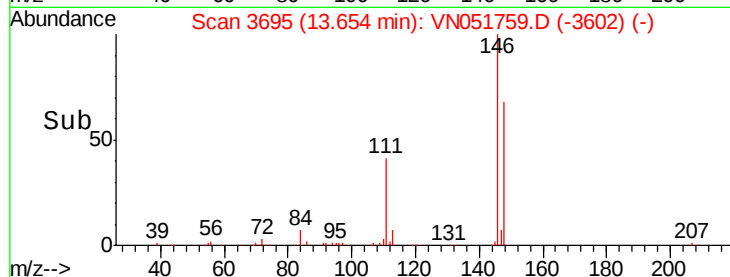
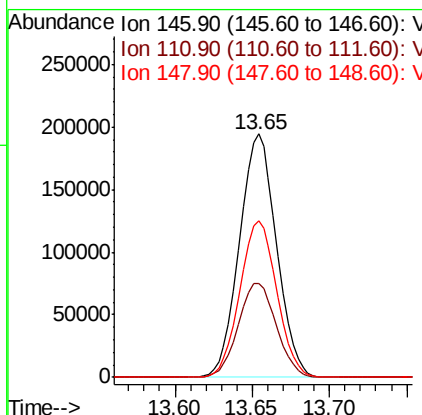
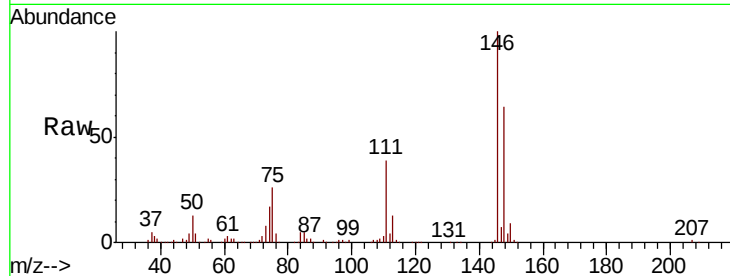
#91  
 1,2-Dichlorobenzene  
 Concen: 20.780 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 19.7  | 59.0  |
| 148     | 64.2  | 32.1  | 96.3  |

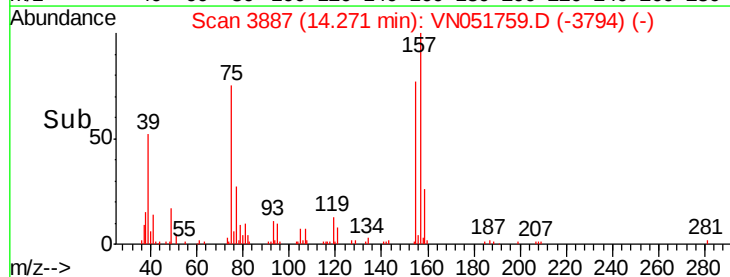
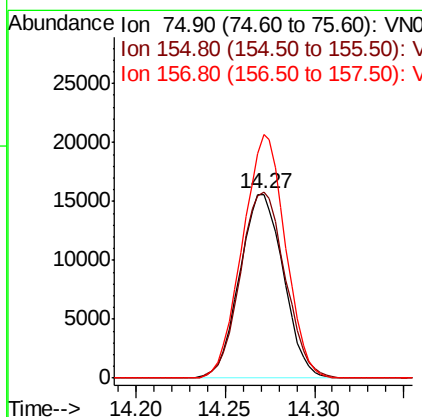
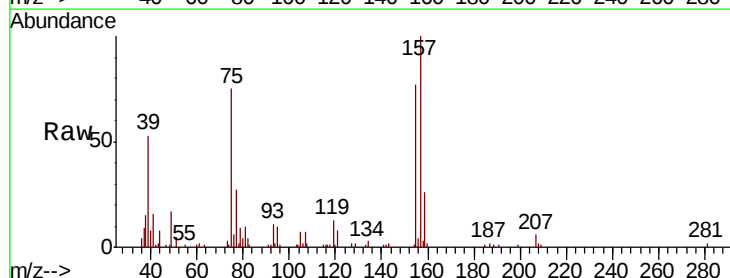
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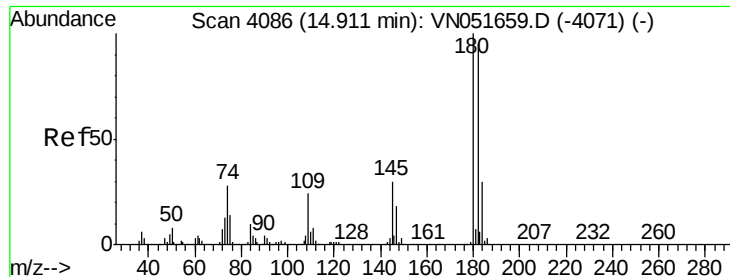
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 20.630 ug/l  
 RT: 14.27 min Scan# 3887  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 104.0 | 47.6  | 142.9 |
| 157     | 129.9 | 61.7  | 185.1 |





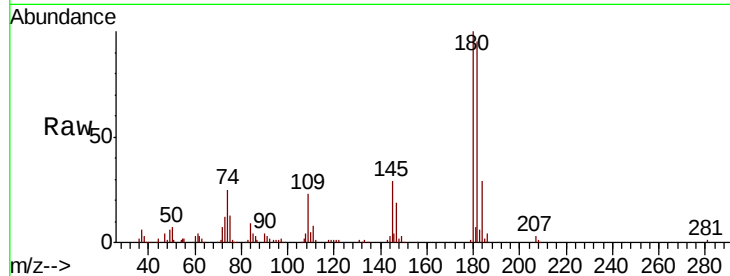
#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.621 ug/l  
 RT: 14.91 min Scan# 4086  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1009WBSD02

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 143068 |       |       |
| 182     | 94.7  | 47.7   | 143.1 |       |
| 145     | 29.8  | 15.3   | 45.9  |       |

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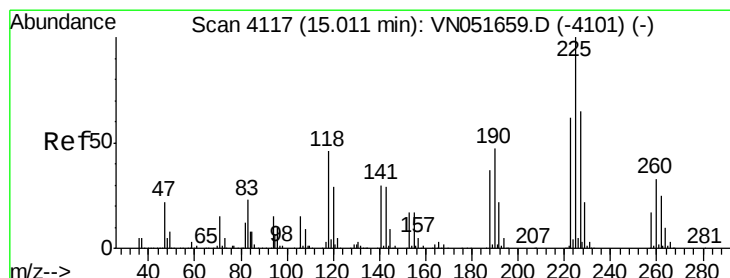
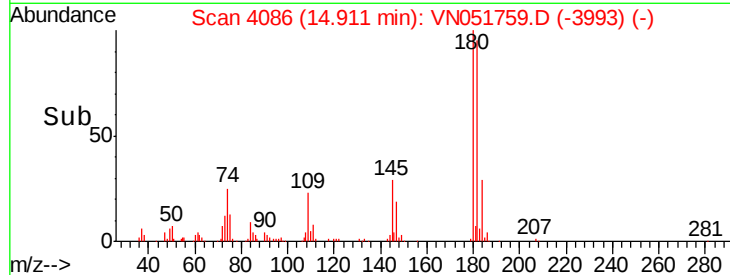
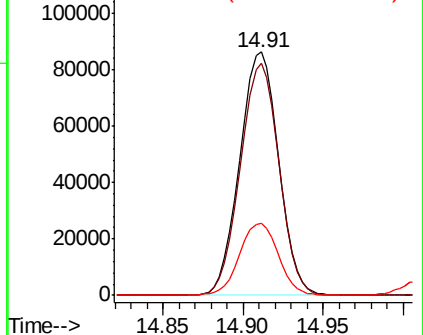


Abundance

Ion 179.80 (179.50 to 180.50): V

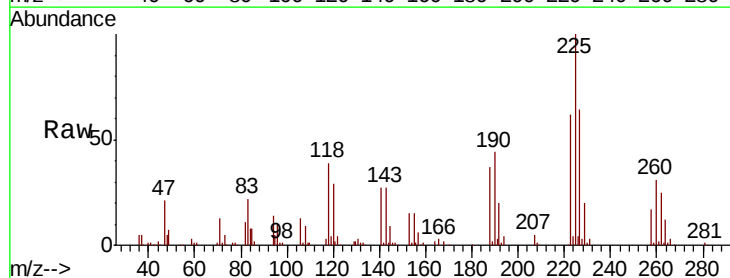
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 20.929 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN051759.D  
 Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 98521 |       |       |
| 223     | 62.4  | 31.9  | 95.5  |       |
| 227     | 65.1  | 31.7  | 95.1  |       |

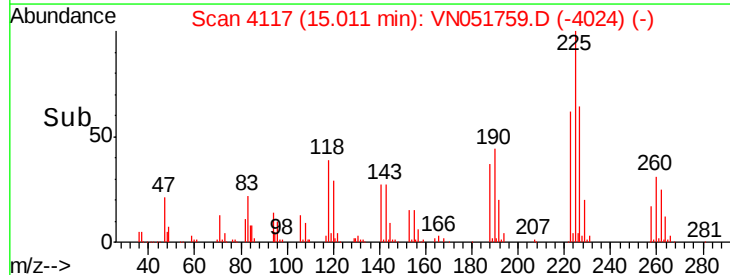
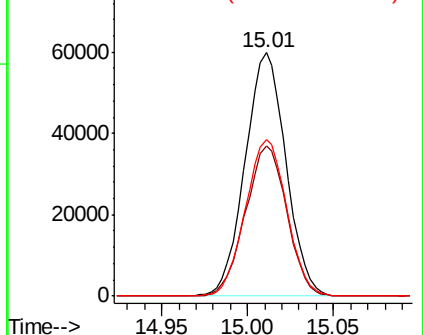


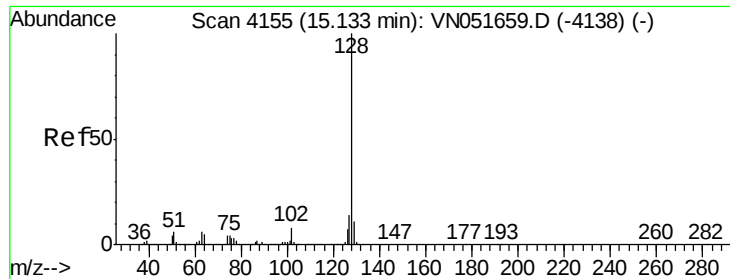
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





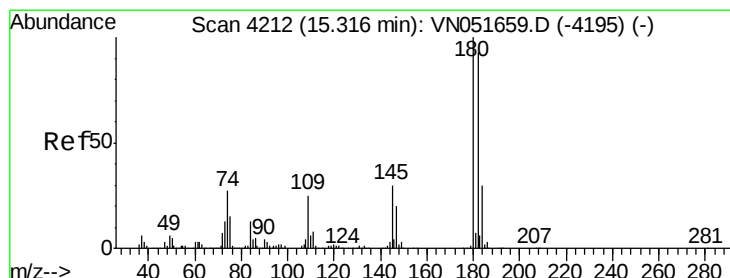
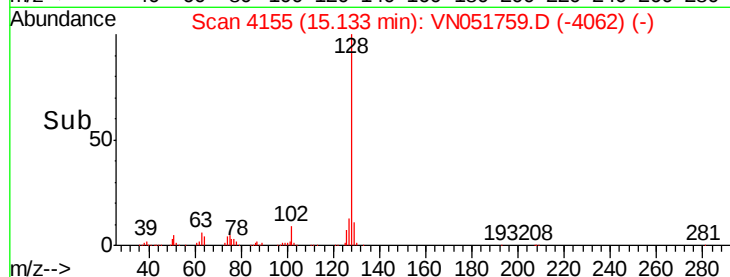
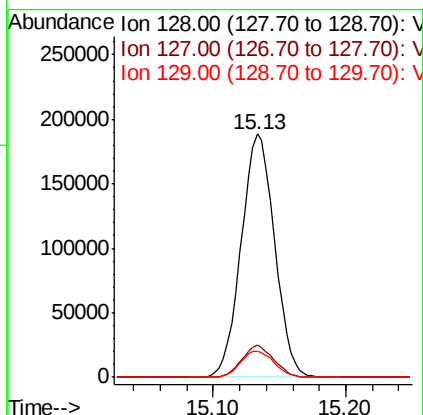
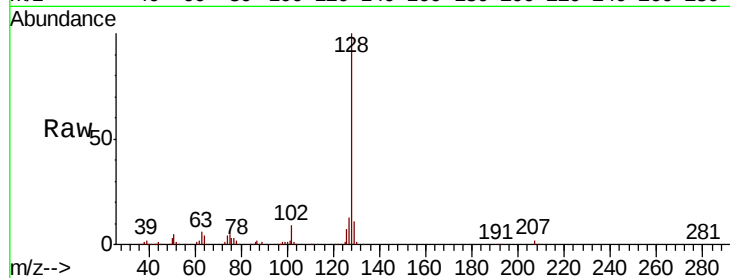
#95  
Naphthalene  
Concen: 22.020 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1009WBSD02

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.6  | 10.6  | 15.8  |
| 129     | 10.9  | 9.0   | 13.6  |

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#96  
1,2,3-Trichlorobenzene  
Concen: 22.393 ug/l  
RT: 15.32 min Scan# 4212  
Delta R.T. 0.00 min  
Lab File: VN051759.D  
Acq: 9 Oct 2018 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.9  | 47.3  | 141.8 |
| 145     | 29.3  | 15.6  | 46.8  |

