

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\  
 Data File : VN050273.D  
 Acq On : 2 Aug 2018 19:04  
 Operator : MD\SY  
 Sample : VN0802MBSD01  
 Misc : 5.00µg/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 8/3/2018 9:36:36 AM

Quant Time: Aug 03 01:45:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 26 18:10:10 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 572922   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 880294   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 774468   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 396496   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 419993   | 52.54 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.08% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 377154   | 52.47 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.94% |      |
| 50) Toluene-d8            | 10.09  | 98  | 1335651  | 50.55 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.10% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 427628   | 49.15 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.30%  |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 168947  | 20.523  | ug/l | 100    |
| 3) Chloromethane              | 2.06 | 50  | 164477  | 18.381  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.18 | 62  | 183968  | 19.523  | ug/l | 98     |
| 5) Bromomethane               | 2.56 | 94  | 64946   | 11.642  | ug/l | 99     |
| 6) Chloroethane               | 2.70 | 64  | 106802  | 18.872  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 255370  | 20.919  | ug/l | 100    |
| 8) Diethyl Ether              | 3.41 | 74  | 90133   | 22.148  | ug/l | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 150179  | 20.458  | ug/l | 99     |
| 10) Methyl Iodide             | 3.95 | 142 | 87447   | 9.282   | ug/l | 99     |
| 11) Tert butyl alcohol        | 4.81 | 59  | 84869   | 144.297 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.73 | 96  | 135255  | 20.483  | ug/l | 97     |
| 13) Acrolein                  | 3.61 | 56  | 97077   | 205.431 | ug/l | 98     |
| 14) Allyl chloride            | 4.32 | 41  | 217908  | 21.282  | ug/l | 96     |
| 15) Acrylonitrile             | 5.00 | 53  | 315353  | 122.895 | ug/l | 99     |
| 16) Acetone                   | 3.82 | 43  | 244635  | 127.804 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.05 | 76  | 356055  | 17.601  | ug/l | 99     |
| 18) Methyl Acetate            | 4.33 | 43  | 245250  | 32.932  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 415143  | 23.591  | ug/l | 99     |
| 20) Methylene Chloride        | 4.55 | 84  | 162002  | 22.159  | ug/l | 97     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 142539  | 20.371  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.96 | 45  | 480337  | 23.659  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.90 | 43  | 1606003 | 111.938 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 288873  | 21.759  | ug/l | 100    |
| 25) 2-Butanone                | 6.85 | 43  | 389408  | 127.718 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 182499  | 18.070  | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 166479  | 22.103  | ug/l | 97     |
| 28) Bromochloromethane        | 7.20 | 49  | 127325  | 21.027  | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.22 | 42  | 256590  | 130.234 | ug/l | 99     |
| 30) Chloroform                | 7.37 | 83  | 296649  | 21.897  | ug/l | 100    |
| 31) Cyclohexane               | 7.66 | 56  | 219143  | 19.863  | ug/l | 96     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 248025  | 21.403  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.80 | 75  | 200664  | 20.233  | ug/l | 100    |
| 37) Ethyl Acetate             | 6.94 | 43  | 165999  | 24.007  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 219132  | 20.823  | ug/l | 99     |

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 Sample : VN0802MBSD01  
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0802MBSD01

Manual Integrations  
 APPROVED

MMDadoda  
 8/3/2018 9:36:36 AM

Quant Time: Aug 03 01:45:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 26 18:10:10 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 194773   | 19.090  | ug/l   | 99       |
| 40) Benzene                    | 8.05  | 78   | 645980   | 21.405  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.18  | 41   | 84678m   | 24.968  | ug/l   |          |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 215590   | 21.413  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 442026   | 33.548  | ug/l # | 87       |
| 44) Trichloroethene            | 8.84  | 130  | 162703   | 20.064  | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 173846   | 21.748  | ug/l   | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 110325   | 22.228  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.41  | 83   | 228190   | 21.783  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 143485   | 24.094  | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.21  | 88   | 43891    | 541.577 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 877032   | 129.023 | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 390347   | 21.912  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.39 | 75   | 211399   | 21.386  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 238114   | 21.077  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.57 | 97   | 159438   | 22.564  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 193436   | 21.419  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 259176   | 22.525  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 405045   | 96.012  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.76 | 43   | 586654   | 120.194 | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 176154   | 22.517  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 152989   | 21.822  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.63 | 164  | 144676   | 19.430  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.44 | 112  | 416419   | 21.286  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 165684   | 22.042  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.52 | 91   | 684100   | 21.769  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 532151   | 44.770  | ug/l   | 99       |
| 69) o-Xylene                   | 11.95 | 106  | 253088   | 22.336  | ug/l   | 100      |
| 70) Styrene                    | 11.97 | 104  | 412729   | 21.025  | ug/l   | 100      |
| 71) Bromoform                  | 12.13 | 173  | 126555   | 23.145  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 676755   | 22.008  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 220034   | 23.412  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 220188   | 25.959  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 172949m  | 23.471  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 180108   | 21.133  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.59 | 91   | 761040   | 22.142  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 472268   | 22.169  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 556597   | 23.011  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 52328    | 22.525  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 467347   | 22.153  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.00 | 119  | 471695   | 22.346  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 570687   | 23.408  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 631759   | 22.399  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 533474   | 22.447  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 310687   | 21.504  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 300554   | 21.343  | ug/l   | 98       |
| 89) n-Butylbenzene             | 13.62 | 91   | 408097   | 20.882  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 108962   | 20.648  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 313173   | 21.684  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 34054    | 24.440  | ug/l   | 94       |

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Sample : VN0802MBSD01  
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

Manual Integrations  
APPROVED

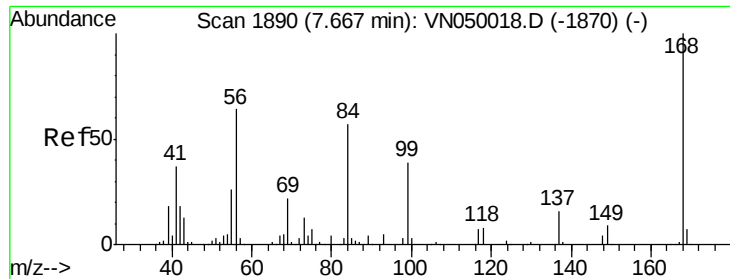
MMDadoda  
8/3/2018 9:36:36 AM

Quant Time: Aug 03 01:45:35 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 26 18:10:10 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 133797   | 19.476 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 91971    | 20.801 | ug/l  | 98       |
| 95) Naphthalene            | 15.14 | 128  | 312698   | 20.159 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 143562   | 20.600 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion:168 Resp: 572922

Ion Ratio Lower Upper

168 100

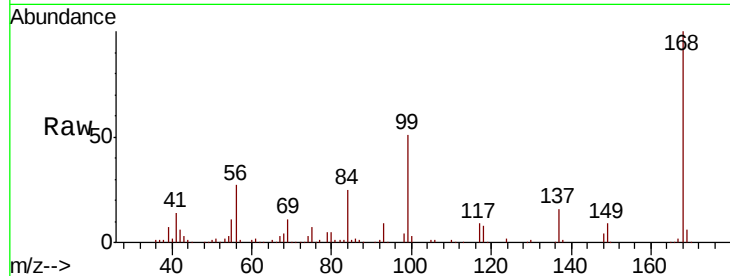
99 50.4 40.0 60.0

Manual Integrations

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MMDadoda

8/3/2018 9:36:36 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

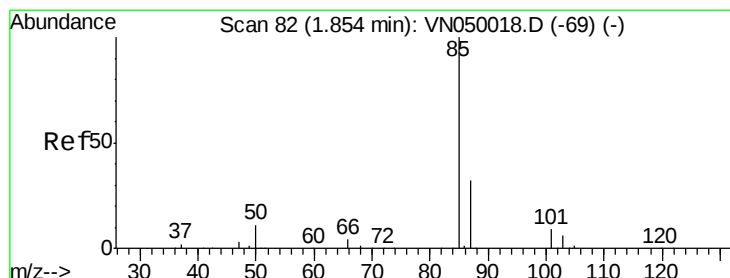
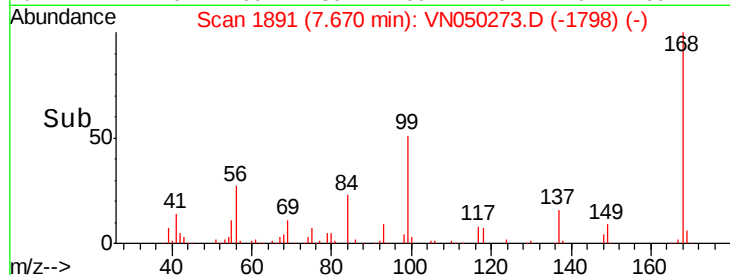
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 20.523 ug/l

RT: 1.85 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN050273.D

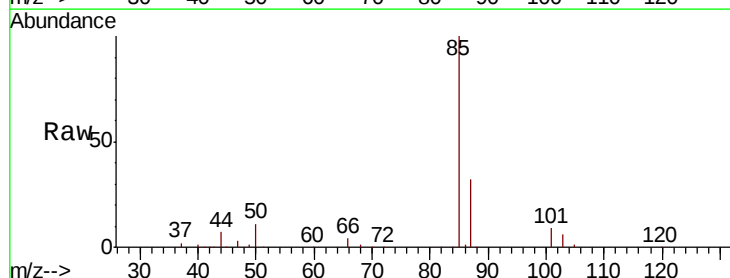
Acq: 2 Aug 2018 19:04

Tgt Ion: 85 Resp: 168947

Ion Ratio Lower Upper

85 100

87 32.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

120000

100000

80000

60000

40000

20000

0

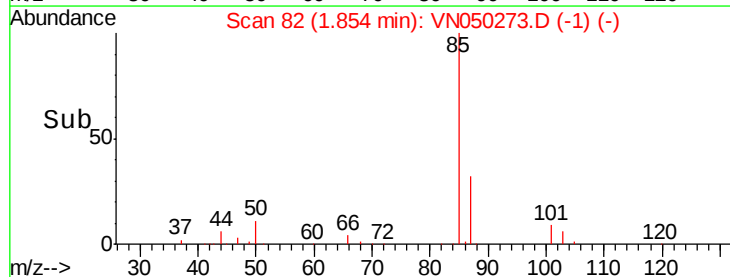
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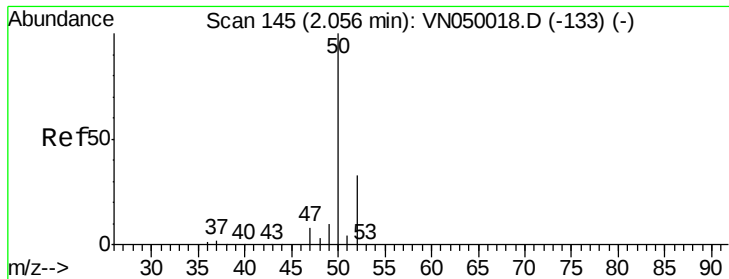
1.85

1.90

1.95

Time-->





#3

Chloromethane

Concen: 18.381 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 50 Resp: 164477

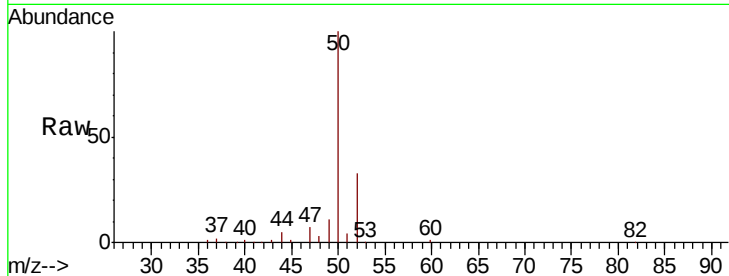
Ion Ratio Lower Upper

50 100

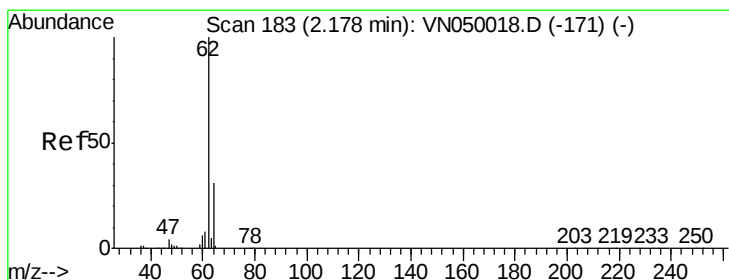
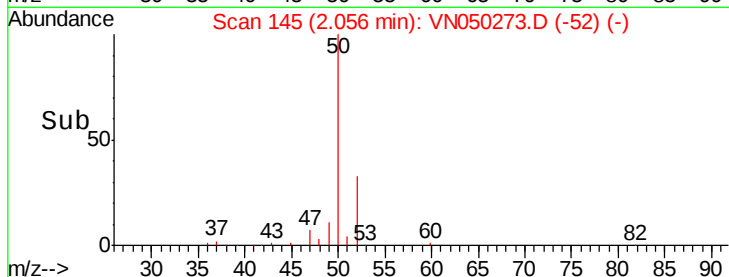
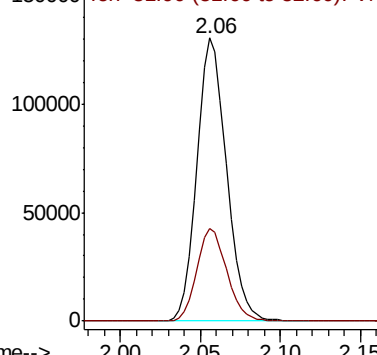
52 32.9 25.9 38.9

Manual Integrations  
APPROVED

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8/3/2018 9:36:36 AM



Abundance Ion 49.90 (49.60 to 50.60): VNO  
Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 19.523 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN050273.D

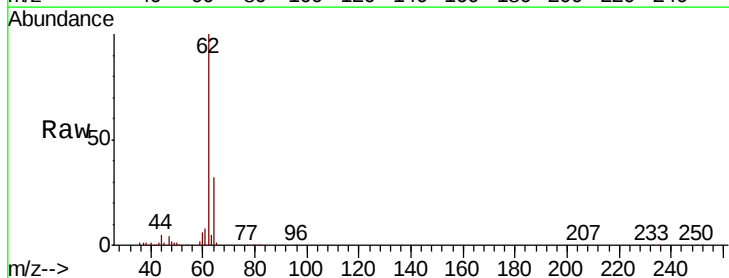
Acq: 2 Aug 2018 19:04

Tgt Ion: 62 Resp: 183968

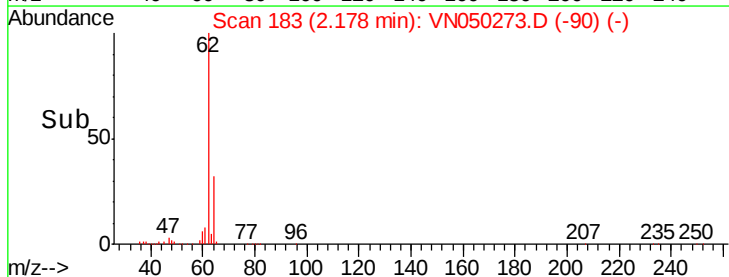
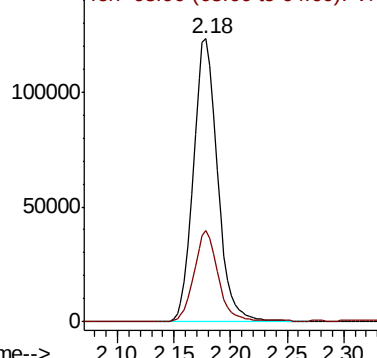
Ion Ratio Lower Upper

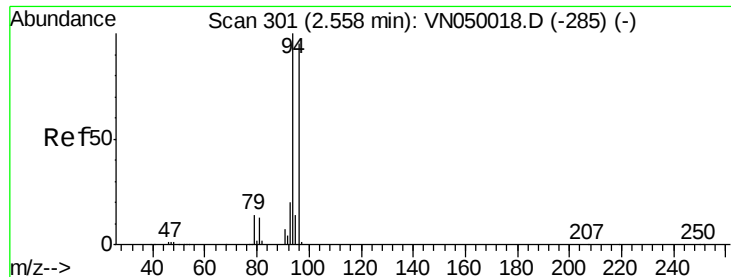
62 100

64 32.0 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VNO  
Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 11.642 ug/l

RT: 2.56 min Scan# 301

Delta R.T. 0.01 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 94 Resp: 64946

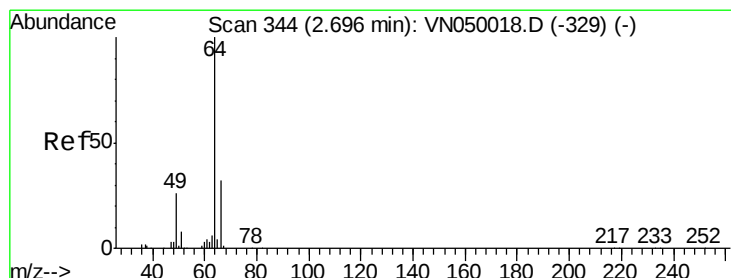
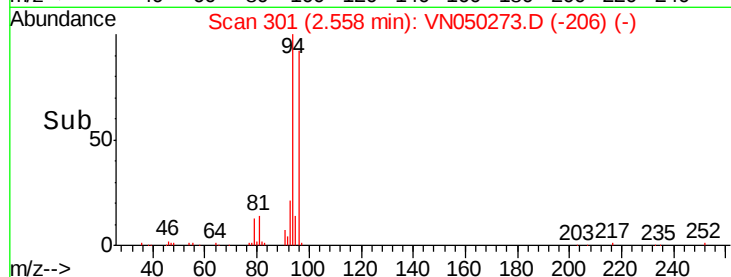
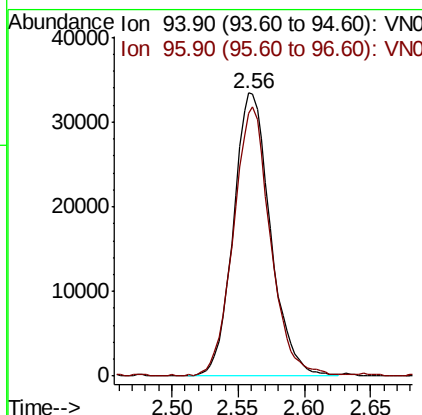
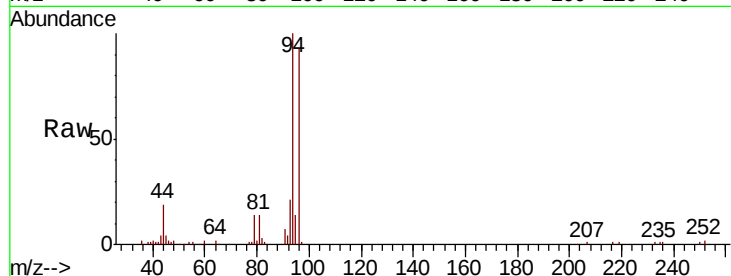
Ion Ratio Lower Upper

94 100

96 92.4 74.6 112.0

Manual Integrations  
APPROVED

MMDadoda  
8/3/2018 9:36:36 AM



#6

Chloroethane

Concen: 18.872 ug/l

RT: 2.70 min Scan# 344

Delta R.T. 0.00 min

Lab File: VN050273.D

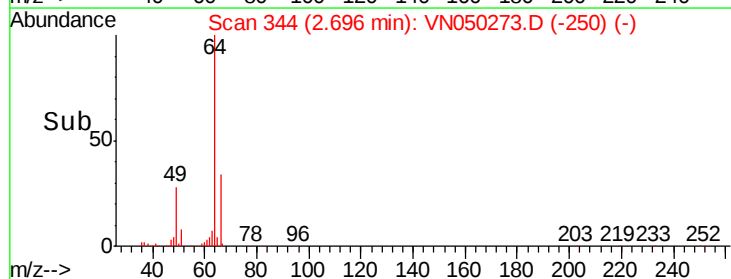
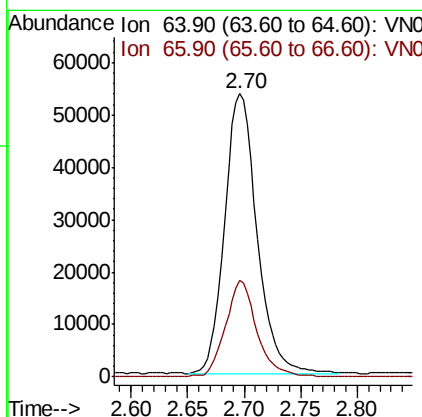
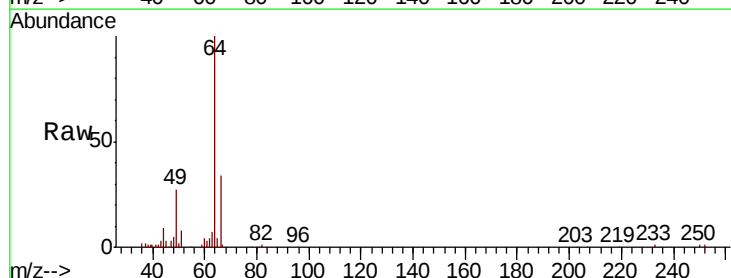
Acq: 2 Aug 2018 19:04

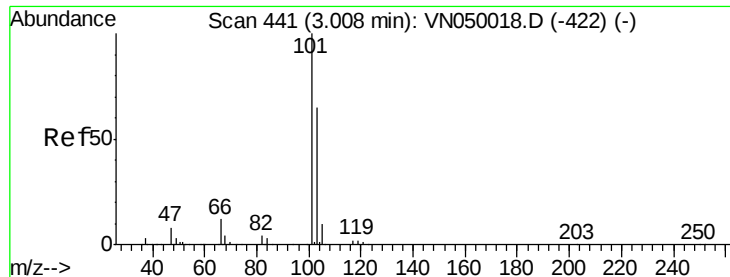
Tgt Ion: 64 Resp: 106802

Ion Ratio Lower Upper

64 100

66 34.4 25.3 37.9





#7

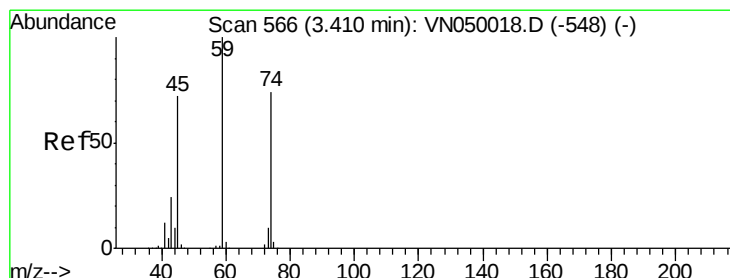
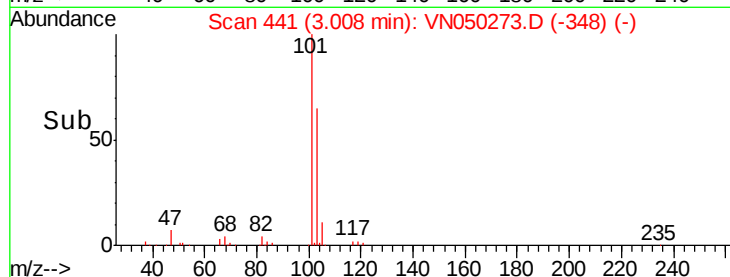
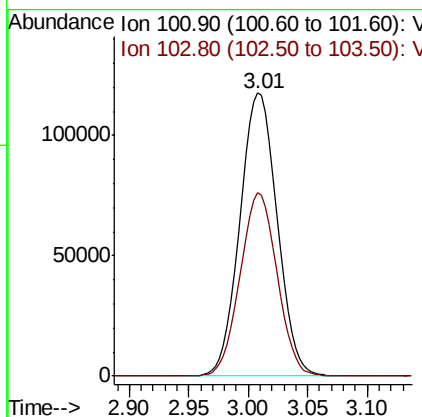
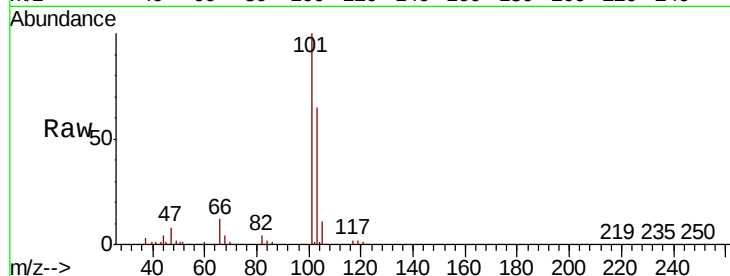
Trichlorofluoromethane  
 Concen: 20.919 ug/l  
 RT: 3.01 min Scan# 441  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 65.0  | 51.7  | 77.5  |

Manual Integrations  
 APPROVED

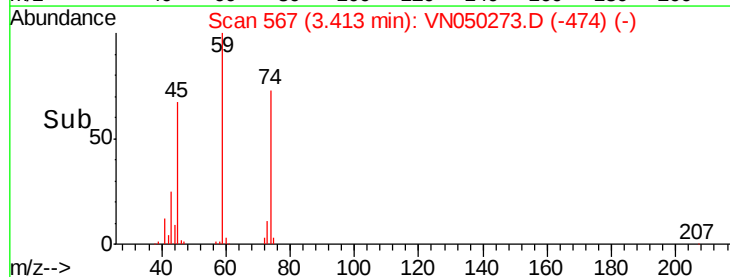
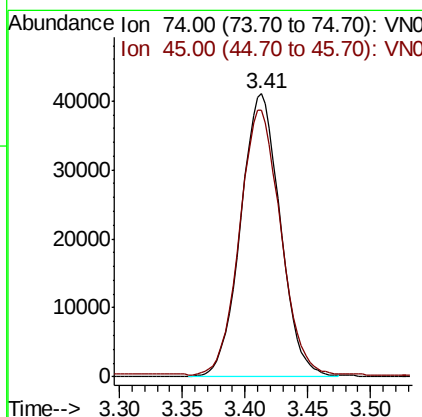
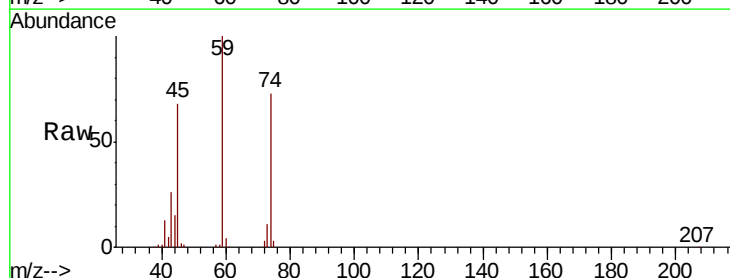
MMDadoda  
 8/3/2018 9:36:36 AM

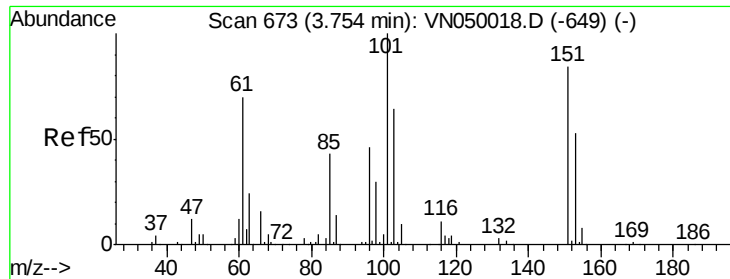


#8

Diethyl Ether  
 Concen: 22.148 ug/l  
 RT: 3.41 min Scan# 567  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 97.5  | 47.6  | 142.8 |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.458 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

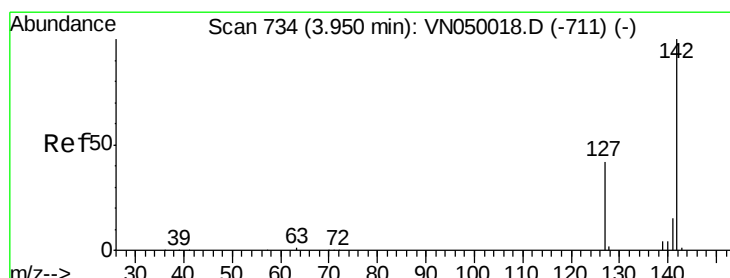
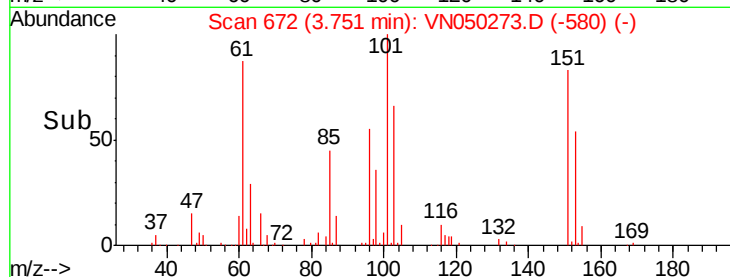
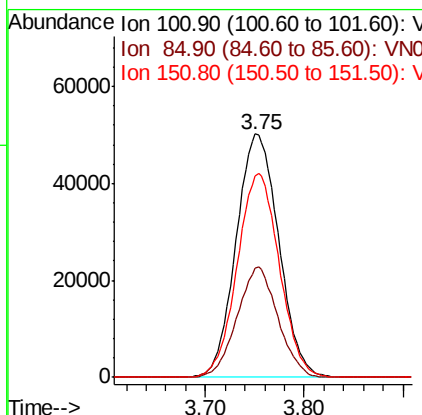
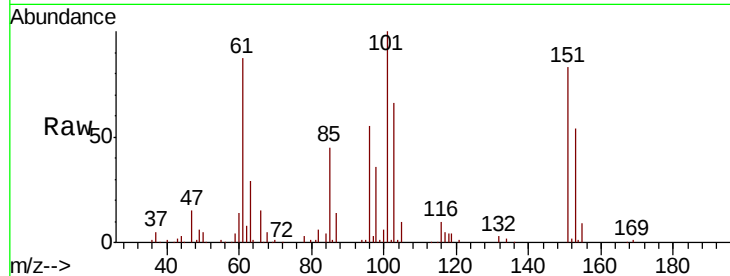
ClientSampleId :

VN0802MBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 150179 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 43.4  | 34.2  | 51.2   |
| 151       | 82.7  | 66.3  | 99.5   |

Manual Integrations  
APPROVED

MMDadoda  
8/3/2018 9:36:36 AM



#10

Methyl Iodide

Concen: 9.282 ug/l

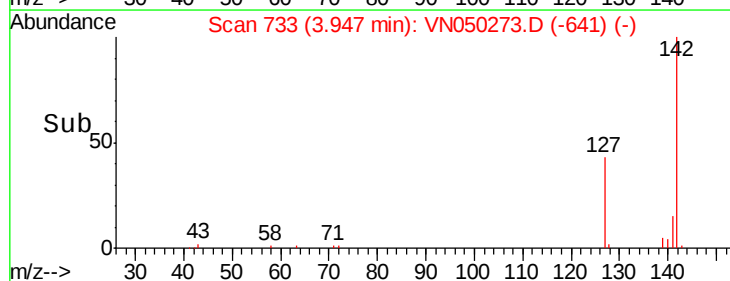
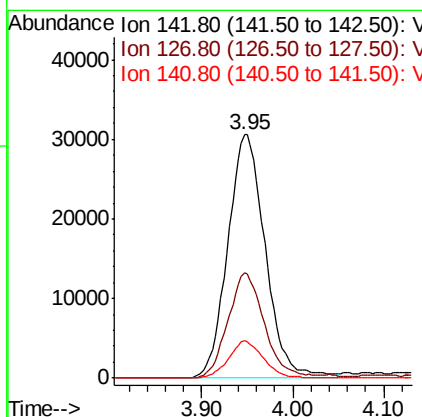
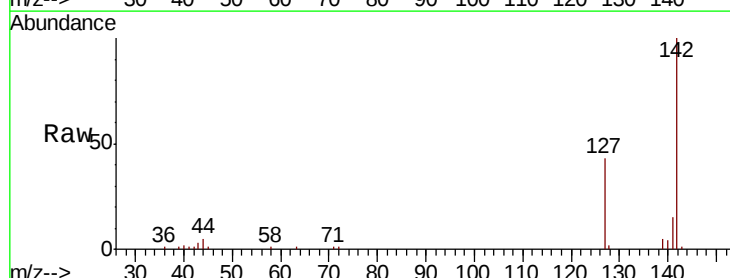
RT: 3.95 min Scan# 733

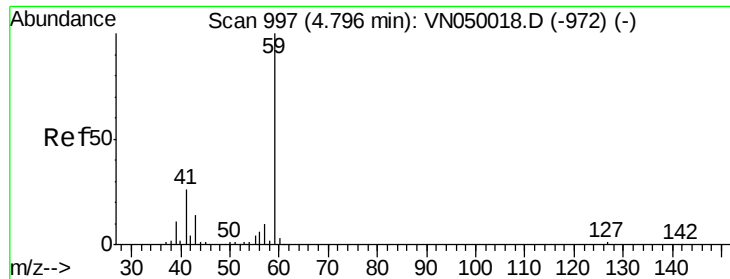
Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 87447 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 127       | 42.0  | 33.4  | 50.2  |
| 141       | 14.1  | 11.6  | 17.4  |





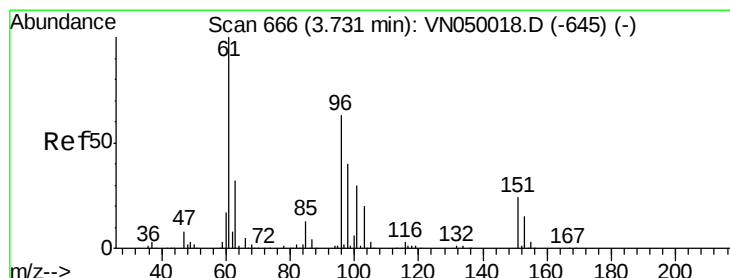
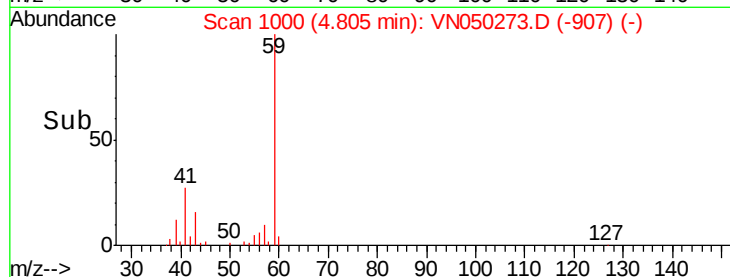
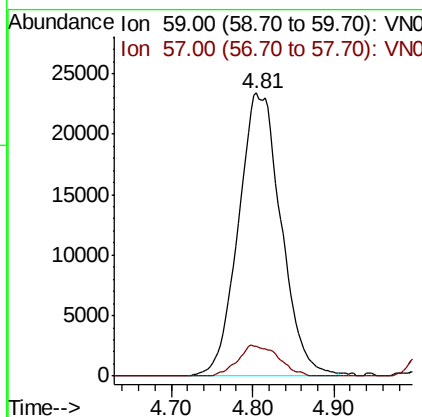
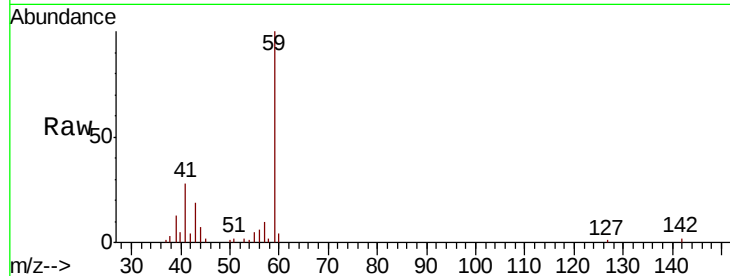
#11  
Tert butyl alcohol  
Concen: 144.297 ug/l  
RT: 4.81 min Scan# 1000  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 10.4  | 8.5   | 12.7  |

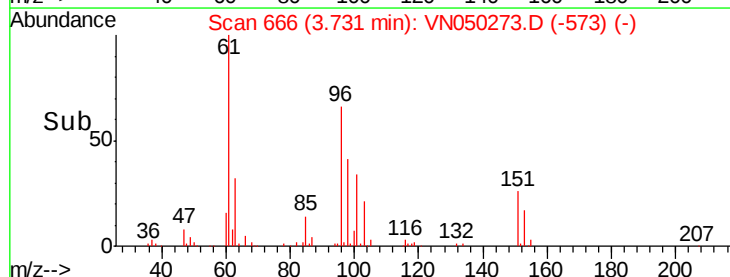
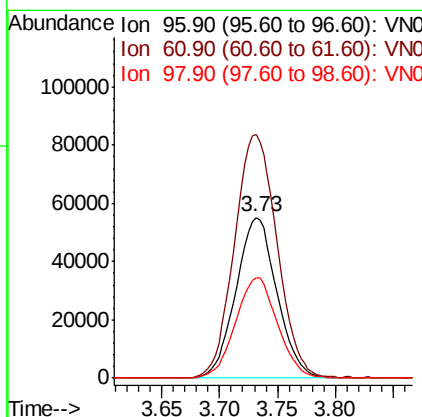
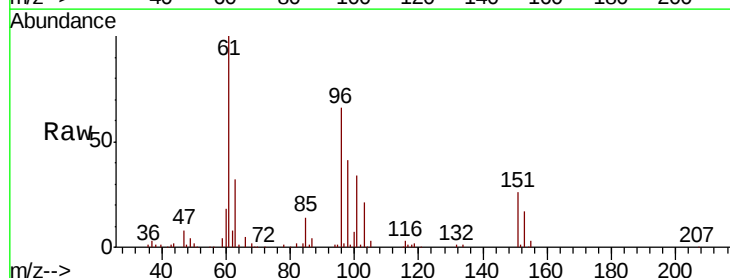
Manual Integrations  
APPROVED

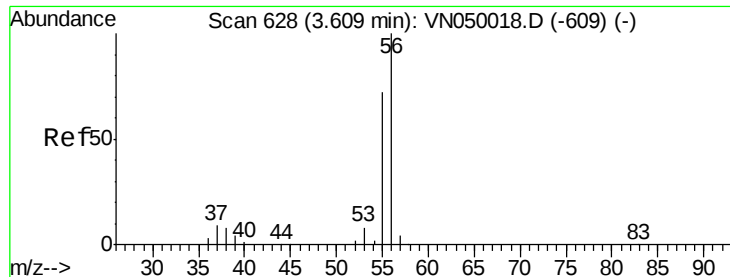
MMDadoda  
8/3/2018 9:36:36 AM



#12  
1,1-Dichloroethene  
Concen: 20.483 ug/l  
RT: 3.73 min Scan# 666  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 151.4 | 124.4 | 186.6 |
| 98      | 62.7  | 48.3  | 72.5  |





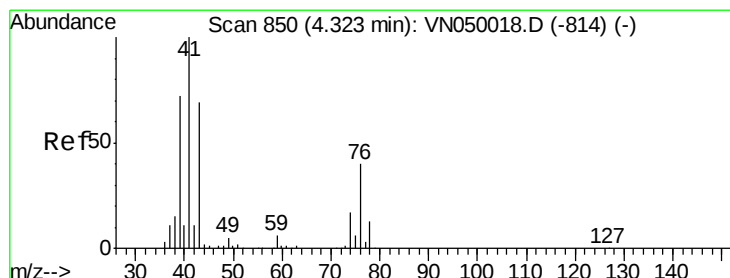
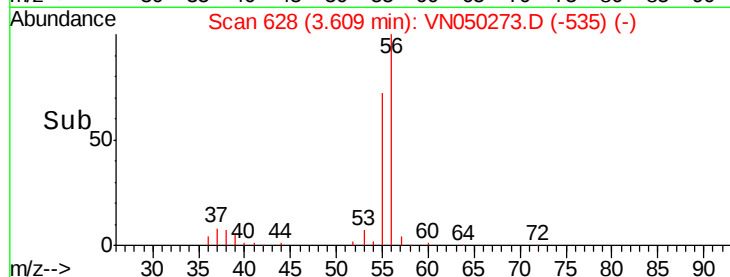
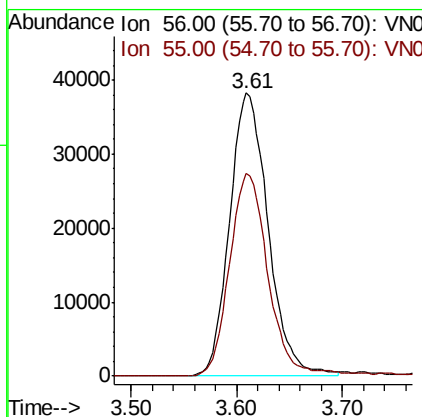
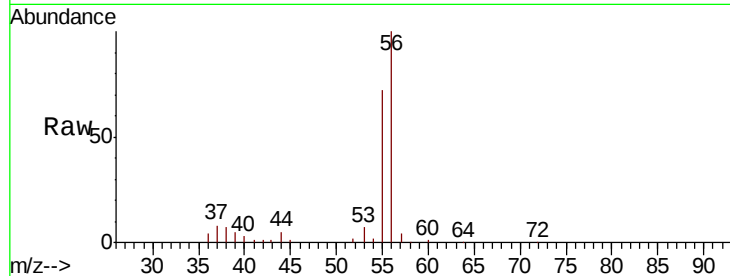
#13  
 Acrolein  
 Concen: 205.431 ug/l  
 RT: 3.61 min Scan# 628  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 56      | 100  |       |       |       |
| 55      | 71.3 | 55.8  | 83.6  |       |

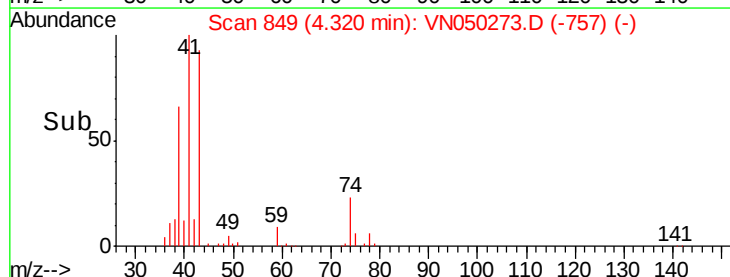
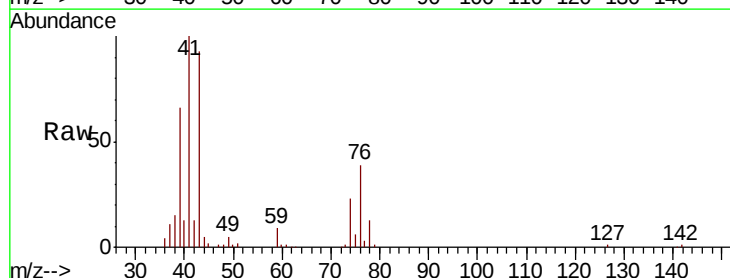
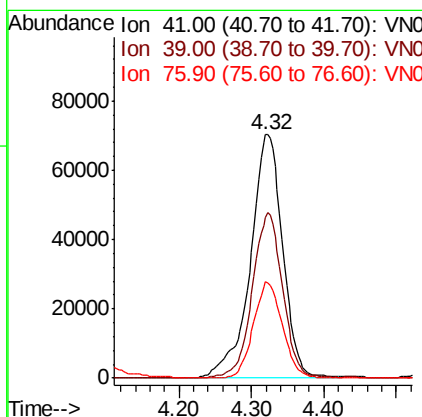
Manual Integrations  
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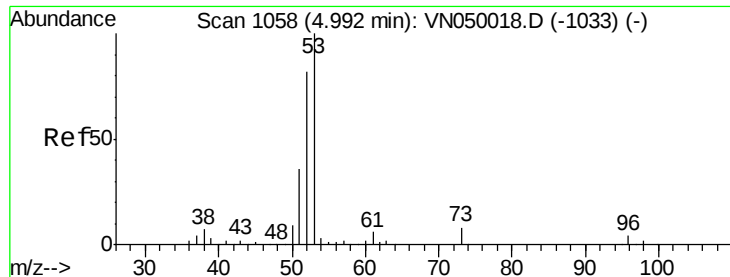
MMDadoda  
 8/3/2018 9:36:36 AM



#14  
 Allyl chloride  
 Concen: 21.282 ug/l  
 RT: 4.32 min Scan# 849  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 41      | 100  |       |       |       |
| 39      | 63.8 | 54.2  | 81.4  |       |
| 76      | 35.7 | 29.0  | 43.6  |       |





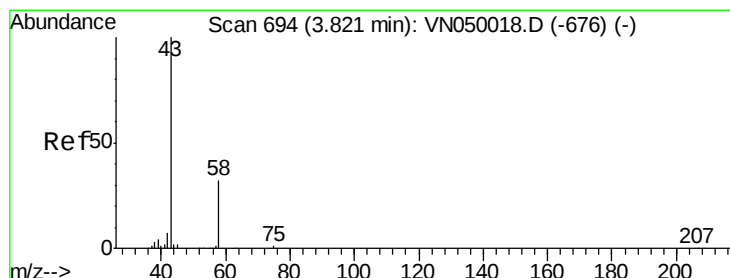
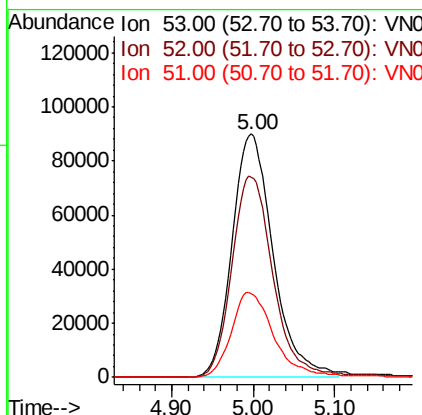
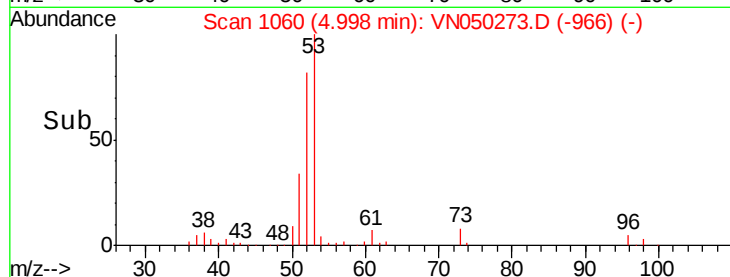
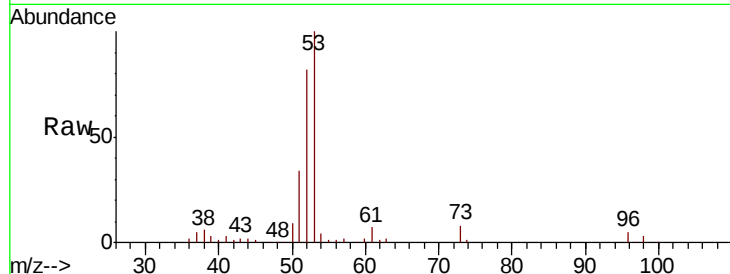
#15  
 Acrylonitrile  
 Concen: 122.895 ug/l  
 RT: 5.00 min Scan# 1060  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 315353 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 83.6  | 66.2  | 99.2   |
| 51       | 36.3  | 29.3  | 43.9   |

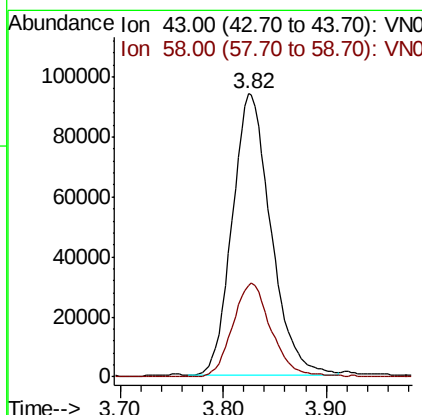
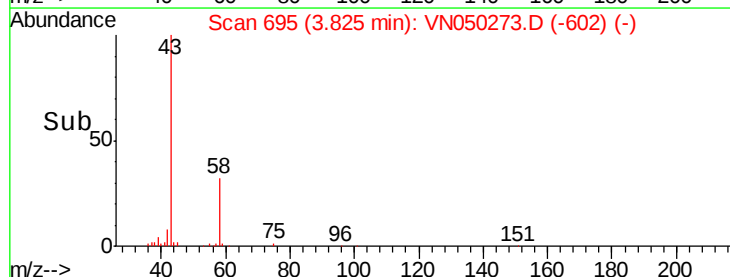
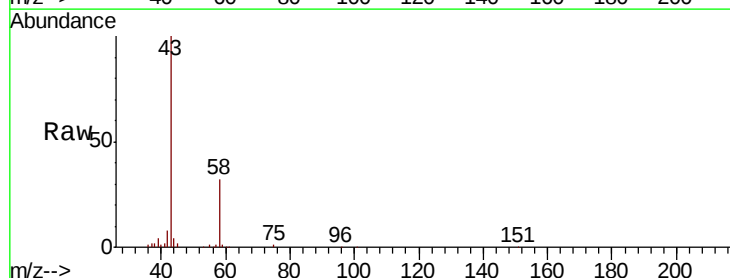
Manual Integrations  
 APPROVED

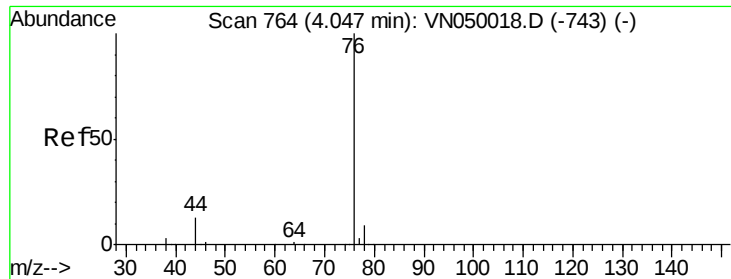
MMDadoda  
 8/3/2018 9:36:36 AM



#16  
 Acetone  
 Concen: 127.804 ug/l  
 RT: 3.82 min Scan# 695  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 244635 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 32.6  | 25.8  | 38.8   |





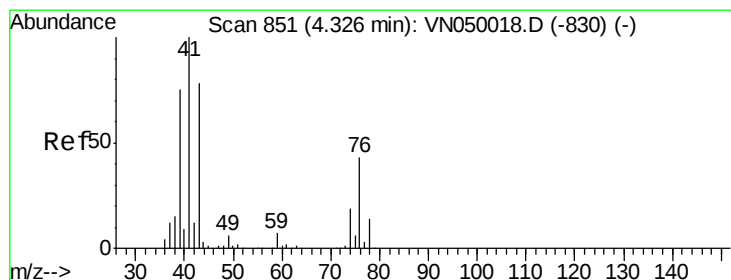
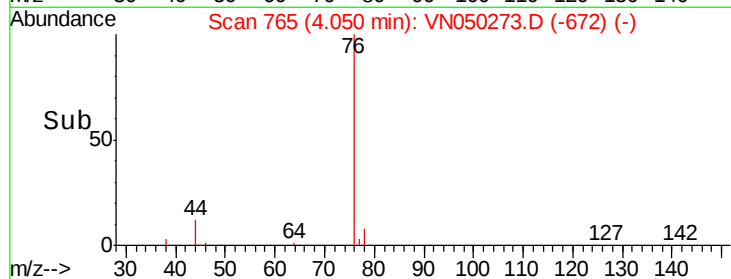
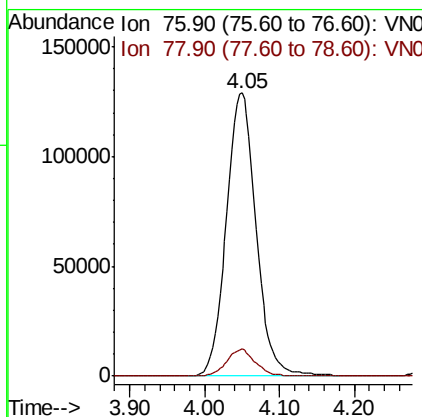
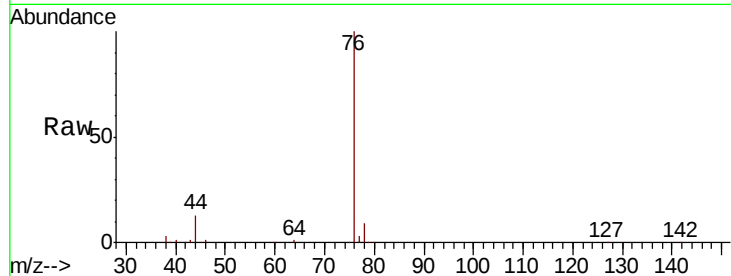
#17  
Carbon Disulfide  
Concen: 17.601 ug/l  
RT: 4.05 min Scan# 765  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 9.5   | 7.3   | 10.9  |

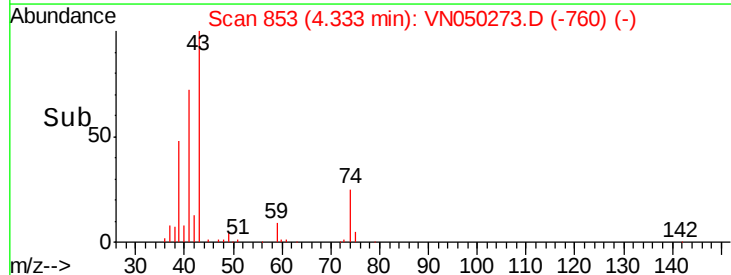
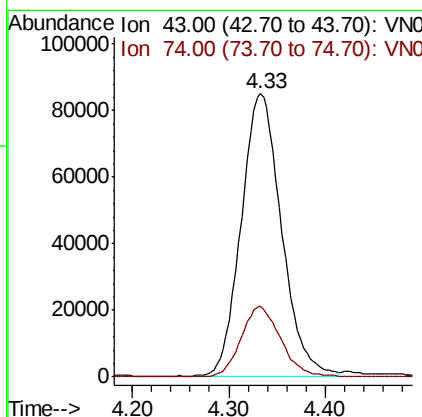
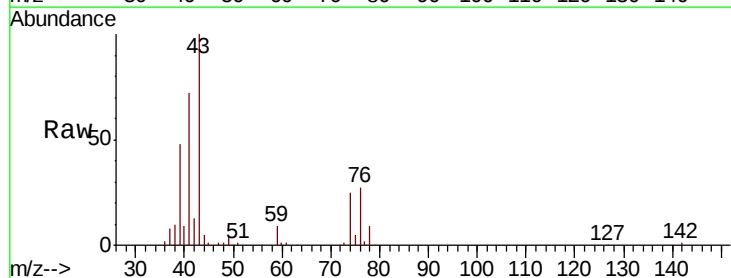
Manual Integrations  
APPROVED

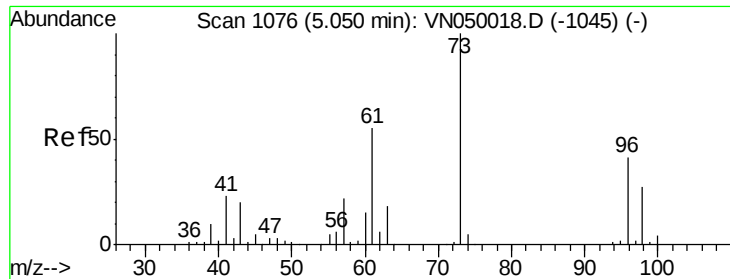
MMDadoda  
8/3/2018 9:36:36 AM



#18  
Methyl Acetate  
Concen: 32.932 ug/l  
RT: 4.33 min Scan# 853  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 24.6  | 19.2  | 28.8  |





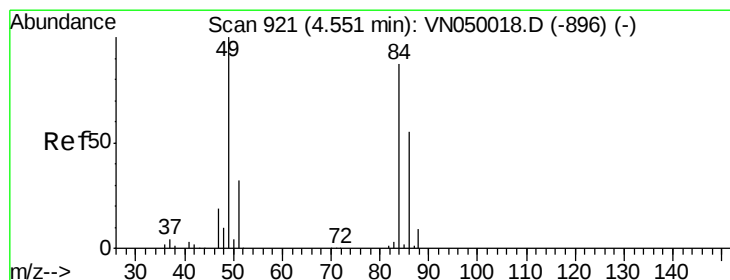
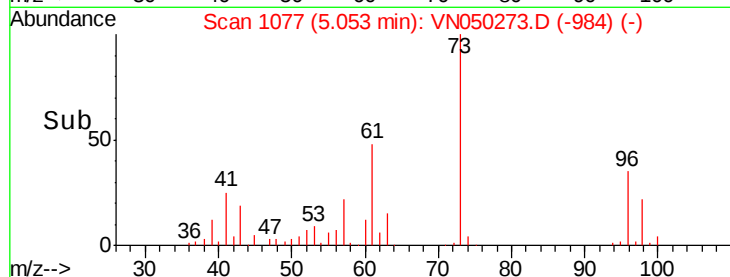
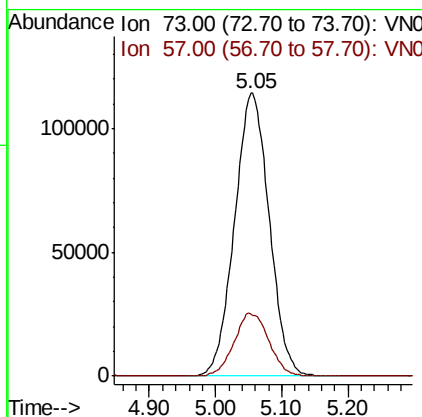
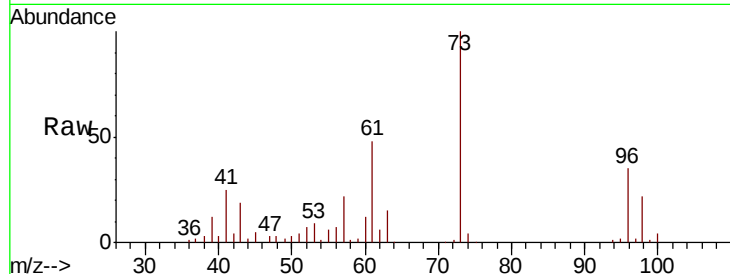
#19  
Methvl tert-butvl Ether  
Concen: 23.591 ug/l  
RT: 5.05 min Scan# 1077  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0802MBSD01

Tot Ion: 73 Resp: 415143  
Ion Ratio Lower Upper  
73 100  
57 22.0 18.0 27.0

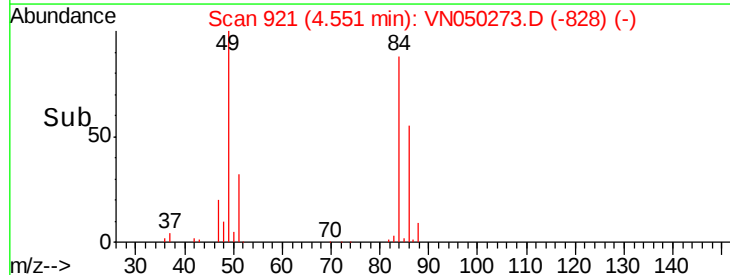
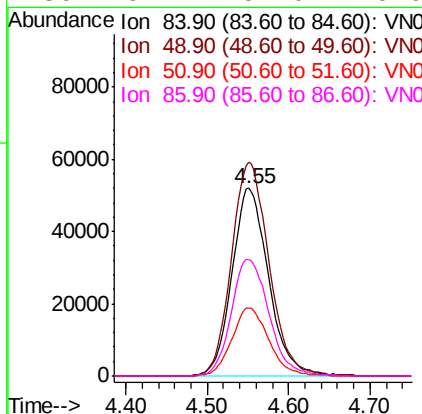
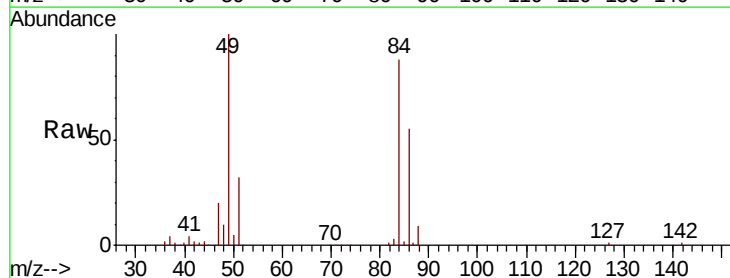
Manual Integrations  
APPROVED

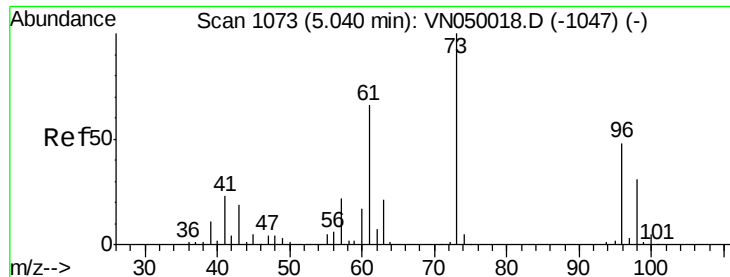
MMDadoda  
8/3/2018 9:36:36 AM



#20  
Methylene Chloride  
Concen: 22.159 ug/l  
RT: 4.55 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Tgt Ion: 84 Resp: 162002  
Ion Ratio Lower Upper  
84 100  
49 113.8 94.8 142.2  
51 36.1 28.3 42.5  
86 62.2 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 20.371 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 96 Resp: 142539

Ion Ratio Lower Upper

96 100

61 139.9 110.7 166.1

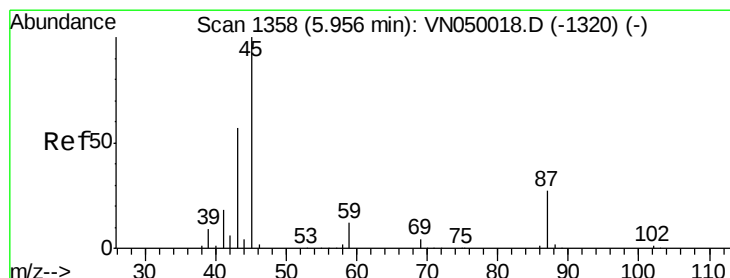
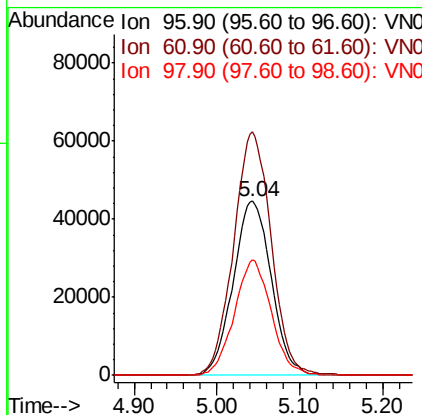
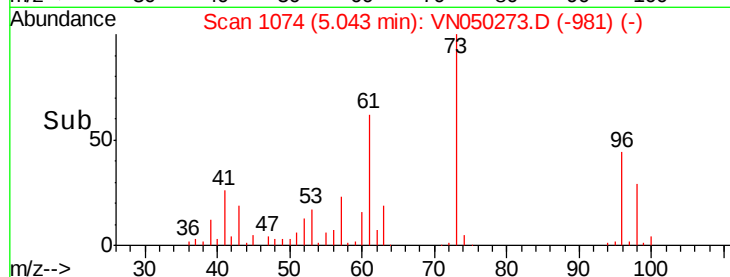
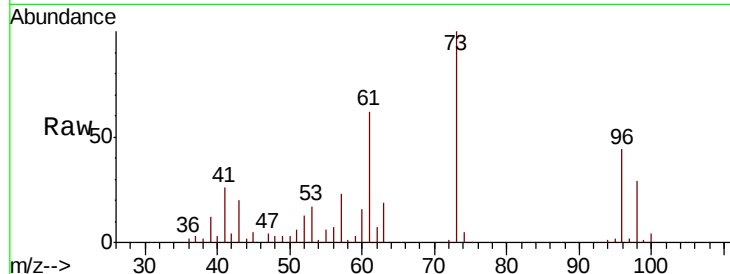
98 66.5 51.6 77.4

Manual Integrations

APPROVED

MMDadoda

8/3/2018 9:36:36 AM



#22

Diisopropyl ether

Concen: 23.659 ug/l

RT: 5.96 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Tgt Ion: 45 Resp: 480337

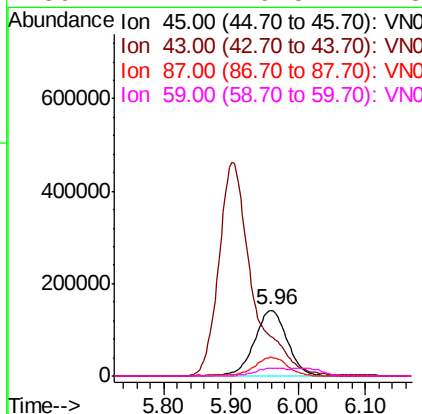
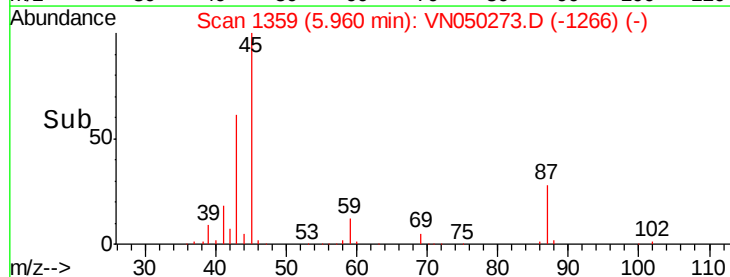
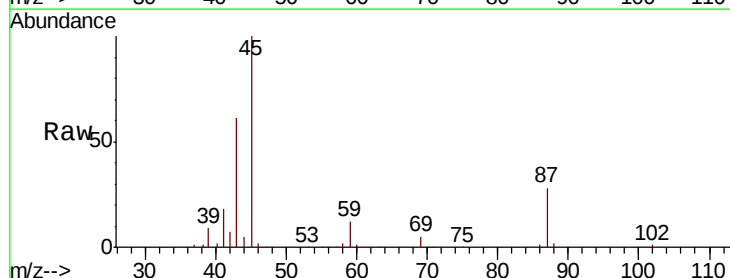
Ion Ratio Lower Upper

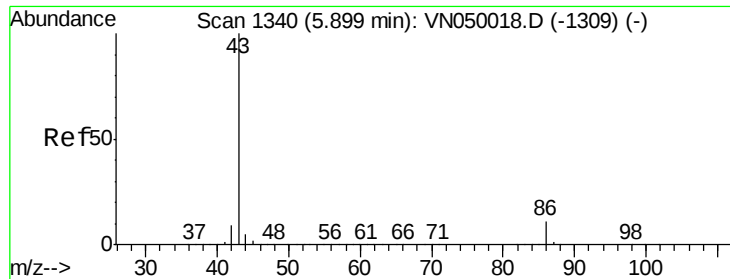
45 100

43 59.8 45.7 68.5

87 28.2 22.7 34.1

59 11.7 9.5 14.3





#23

Vinyl Acetate

Concen: 111.938 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleID :

VN0802MBSD01

Tot Ion: 43 Resp: 1606003

Ion Ratio Lower Upper

43 100

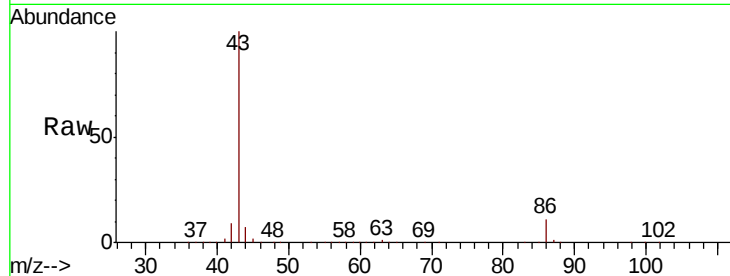
86 10.7 8.6 13.0

Manual Integrations

APPROVED

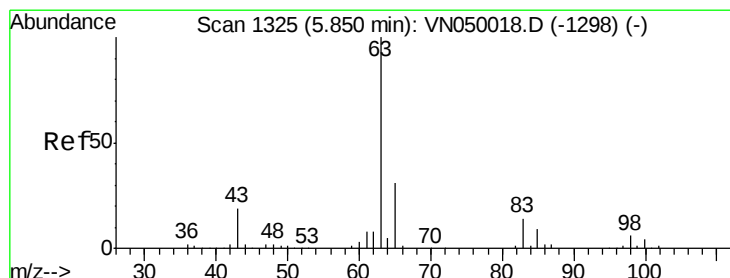
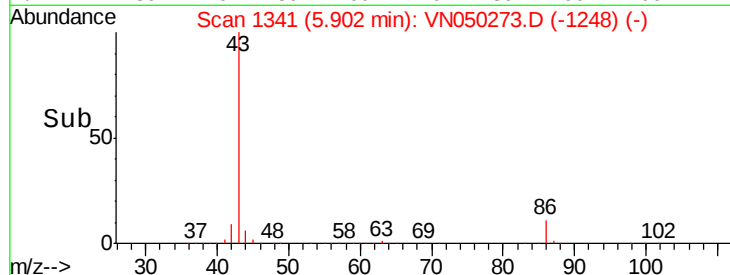
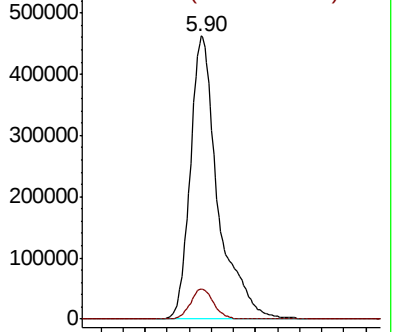
MMDadoda

8/3/2018 9:36:36 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 21.759 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

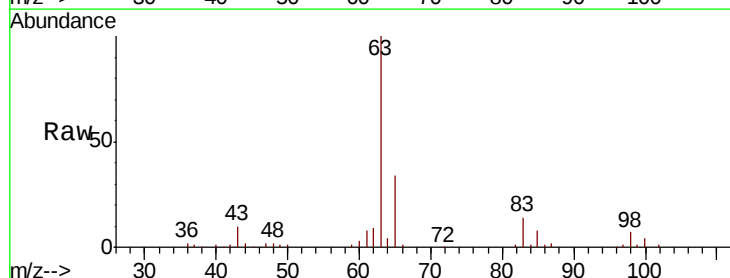
Tgt Ion: 63 Resp: 288873

Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

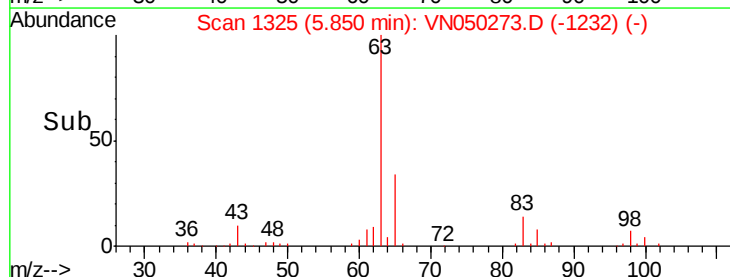
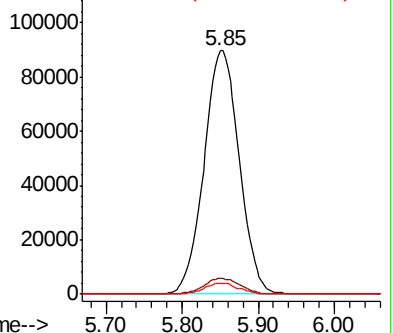
100 4.3 2.1 6.3

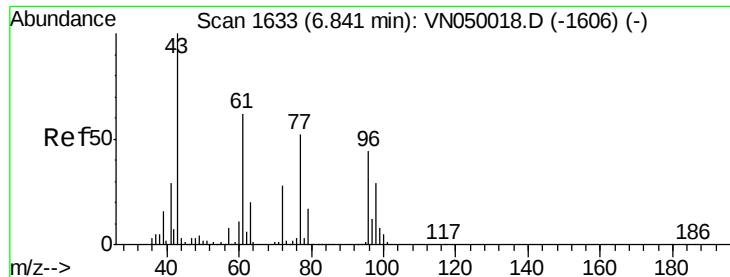


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 127.718 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 43 Resp: 389408

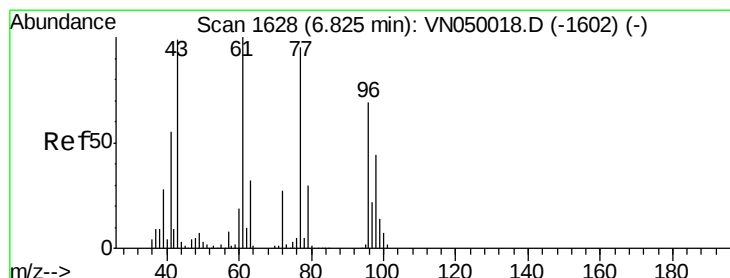
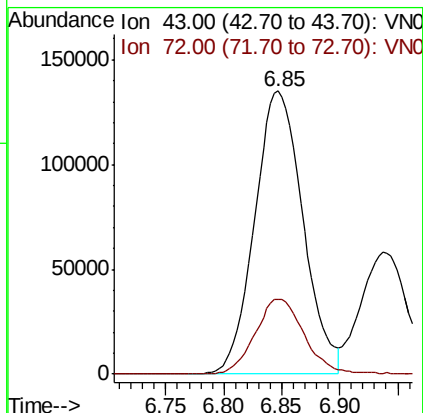
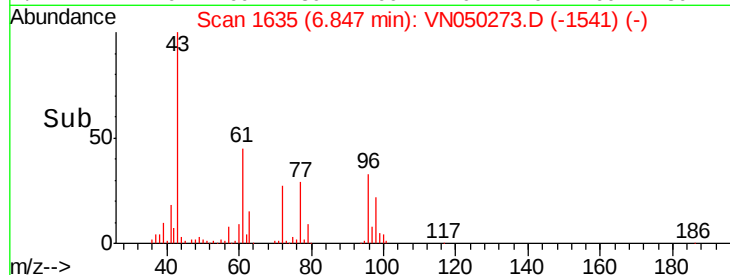
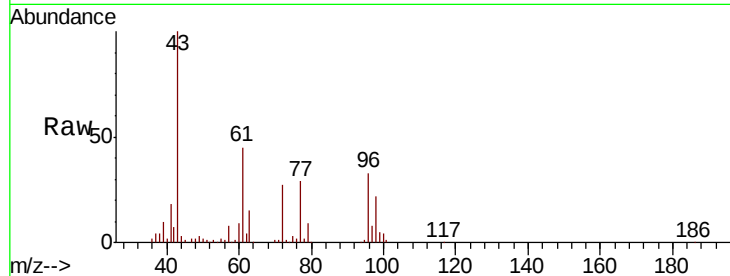
Ion Ratio Lower Upper

43 100

72 26.7 21.5 32.3

Manual Integrations  
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#26

2,2-Dichloropropane

Concen: 18.070 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050273.D

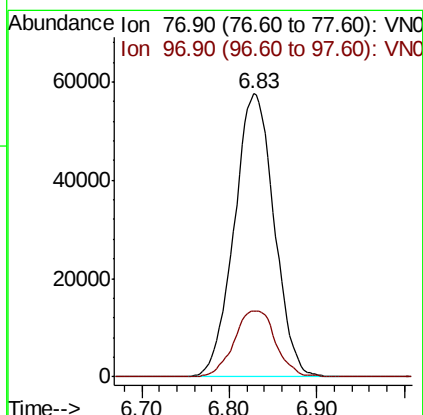
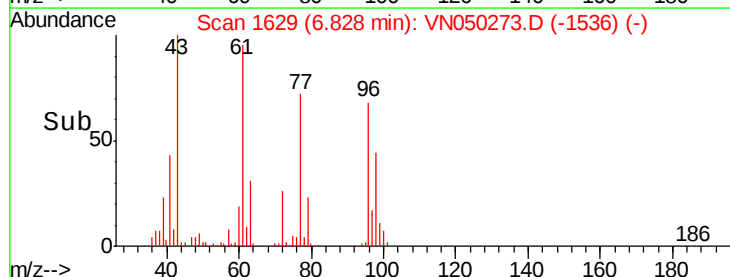
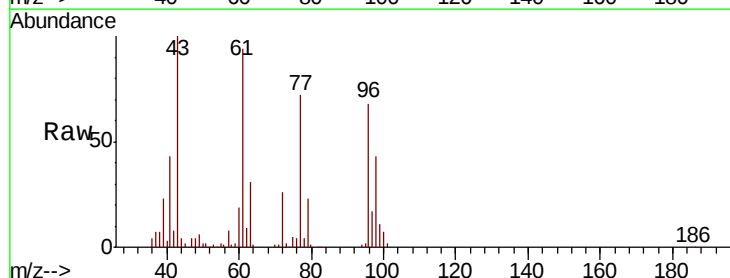
Acq: 2 Aug 2018 19:04

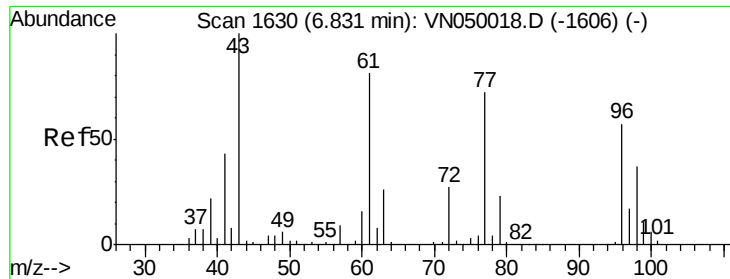
Tgt Ion: 77 Resp: 182499

Ion Ratio Lower Upper

77 100

97 24.3 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 22.103 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 96 Resp: 166479

Ion Ratio Lower Upper

96 100

61 137.7 0.0 285.0

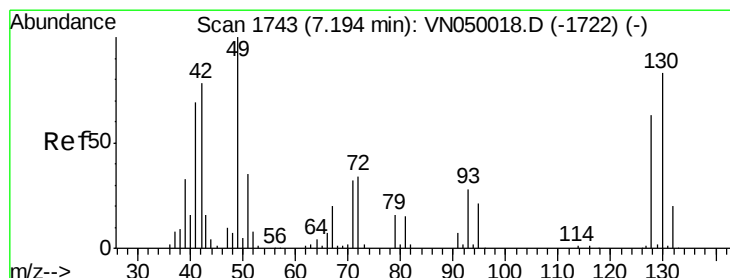
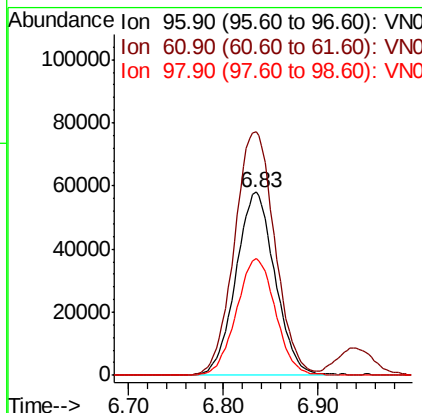
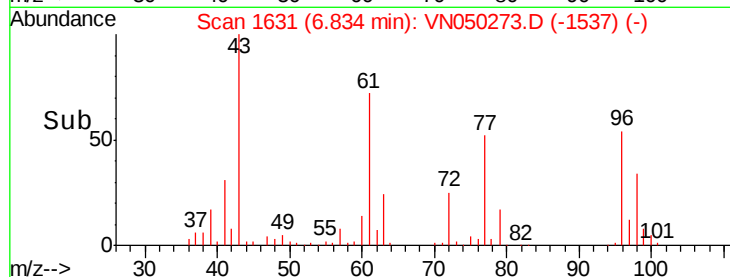
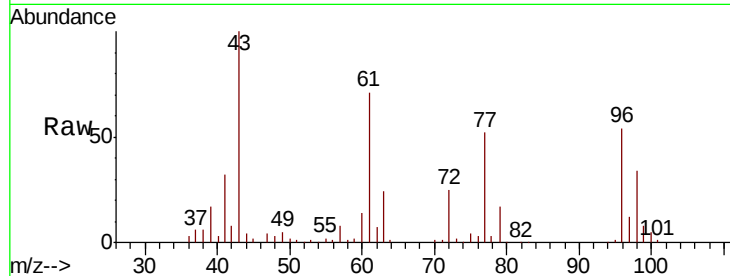
98 63.7 0.0 129.2

Manual Integrations

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8/3/2018 9:36:36 AM



#28

Bromochloromethane

Concen: 21.027 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

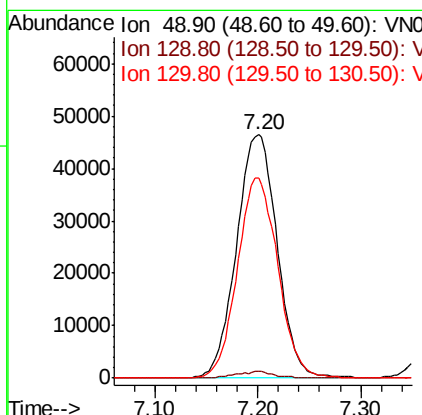
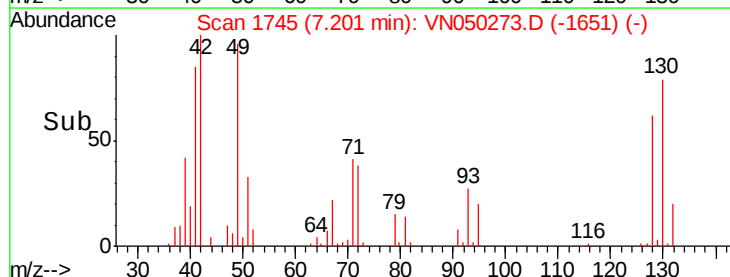
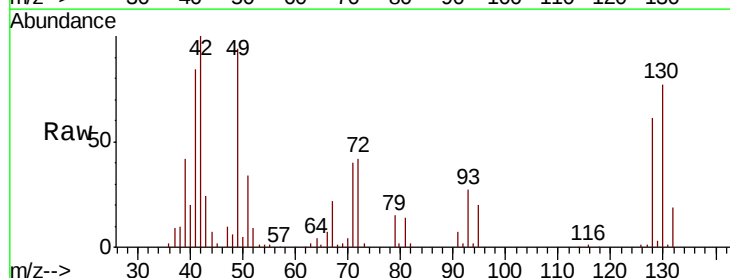
Tgt Ion: 49 Resp: 127325

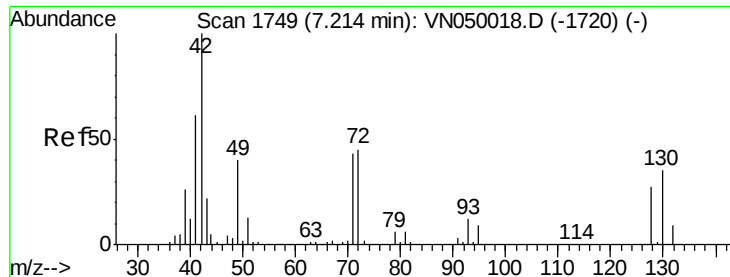
Ion Ratio Lower Upper

49 100

129 2.5 0.0 4.0

130 81.9 66.3 99.5





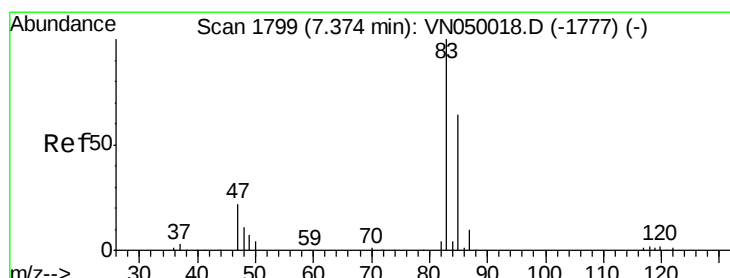
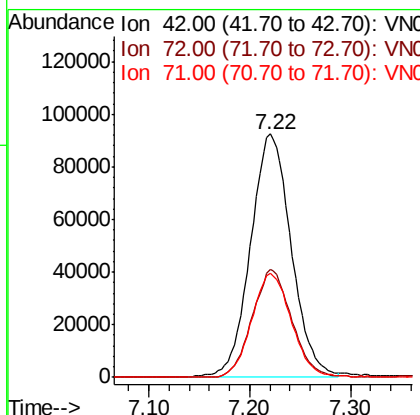
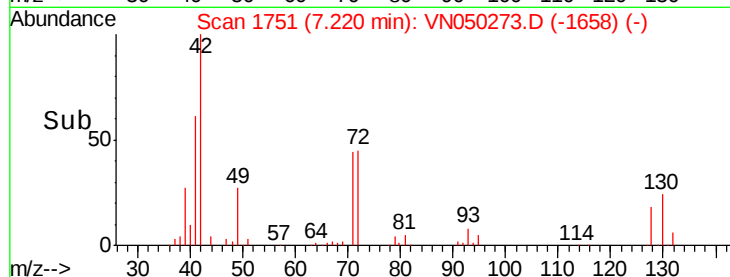
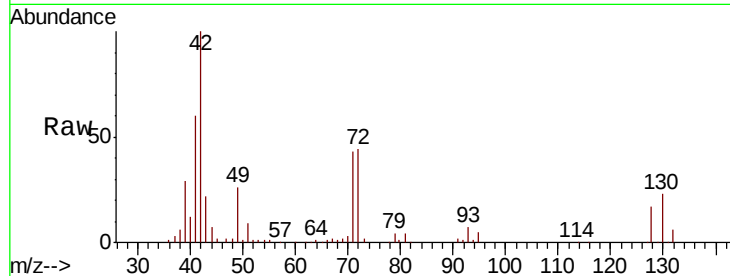
#29  
Tetrahydrofuran  
Concen: 130.234 ug/l  
RT: 7.22 min Scan# 1751  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 43.5  | 35.9  | 53.9  |
| 71      | 42.2  | 33.7  | 50.5  |

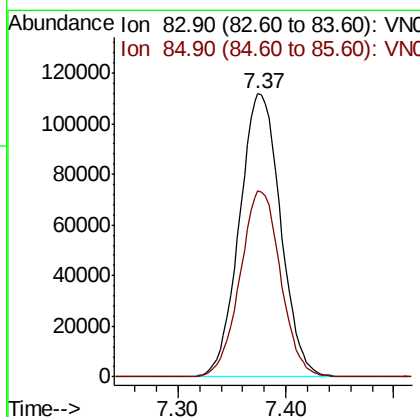
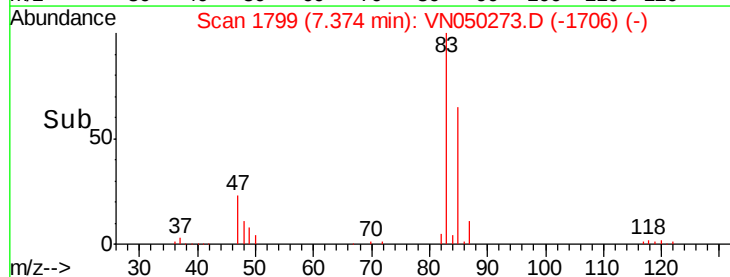
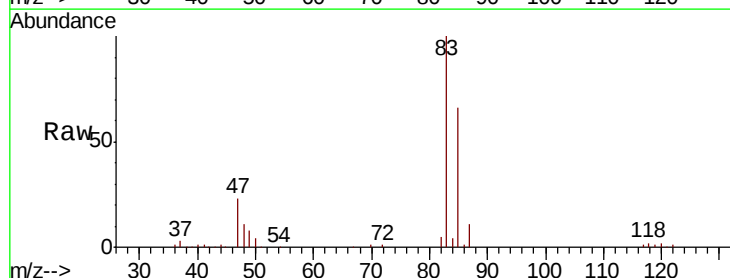
Manual Integrations  
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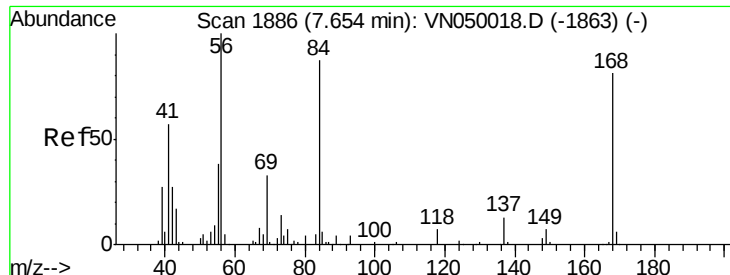
MMDadoda  
8/3/2018 9:36:36 AM



#30  
Chloroform  
Concen: 21.897 ug/l  
RT: 7.37 min Scan# 1799  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.7  | 52.5  | 78.7  |





#31

Cyclohexane

Concen: 19.863 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

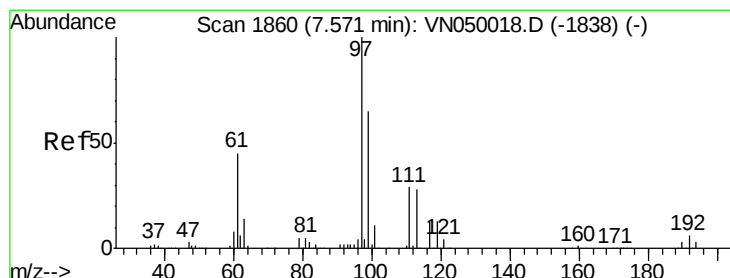
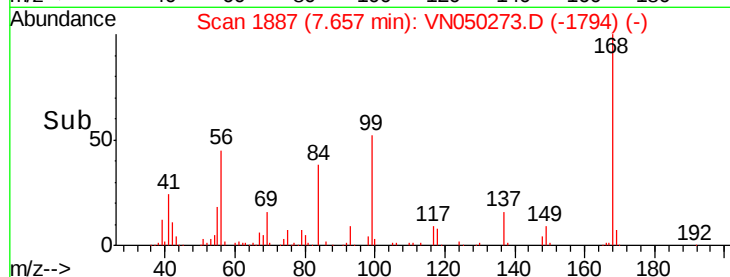
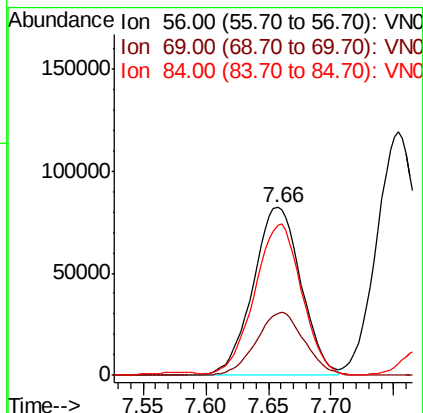
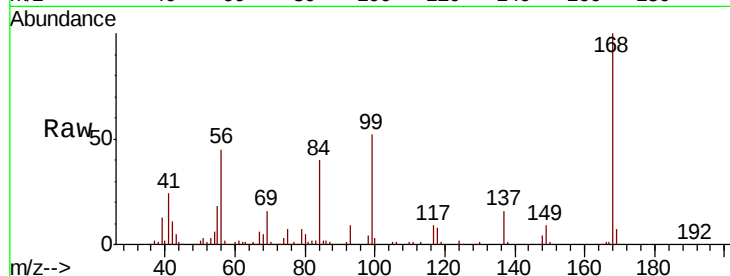
ClientSampleId :

VN0802MBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 56    | Resp: | 219143 |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 36.7  | 26.2  | 39.4   |
| 84       | 87.3  | 67.4  | 101.0  |

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#32

1,1,1-Trichloroethane

Concen: 21.403 ug/l

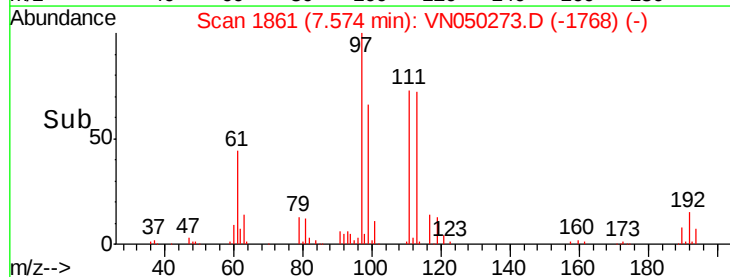
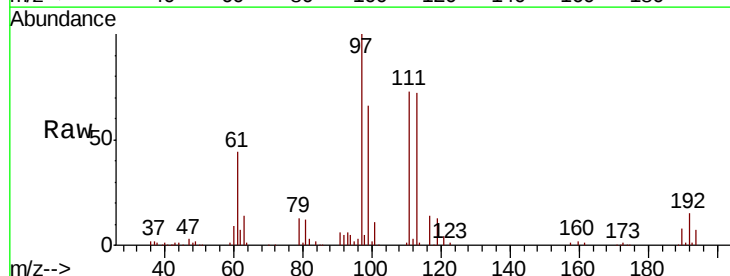
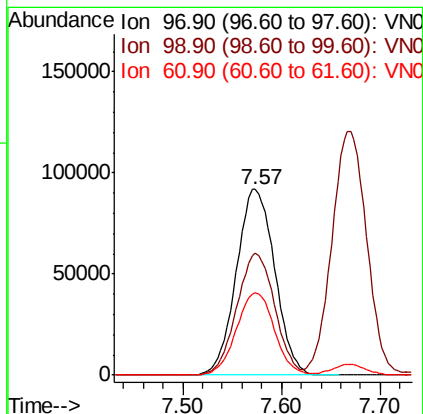
RT: 7.57 min Scan# 1861

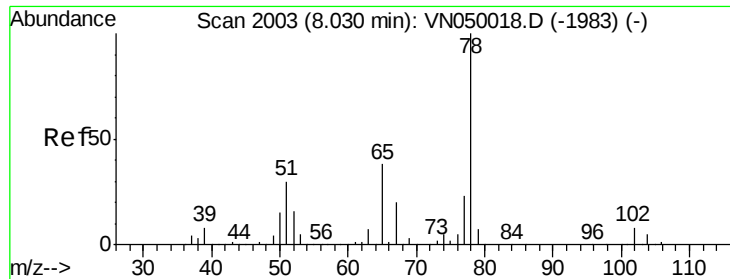
Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 248025 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 65.0  | 51.4  | 77.0   |
| 61       | 44.0  | 35.4  | 53.0   |





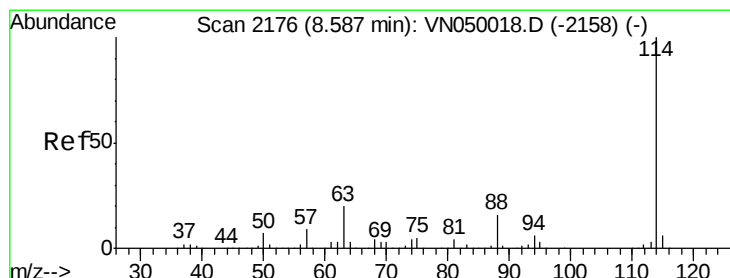
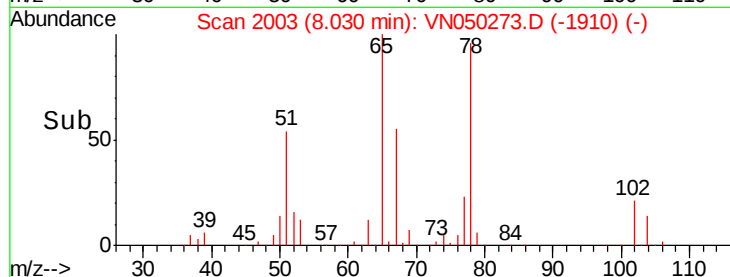
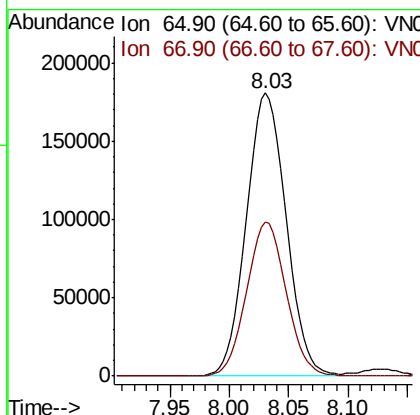
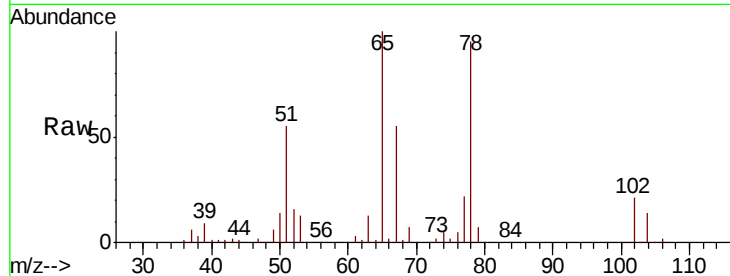
#33  
 1,2-Dichloroethane-d4  
 Concen: 52.541 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 419993 |       |       |
| 67      | 54.3  | 0.0    | 108.4 |       |

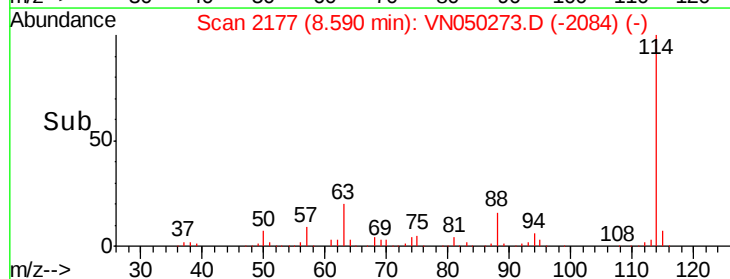
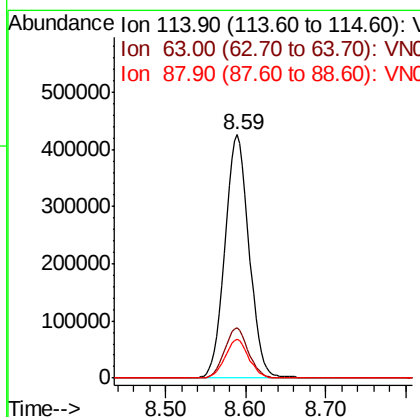
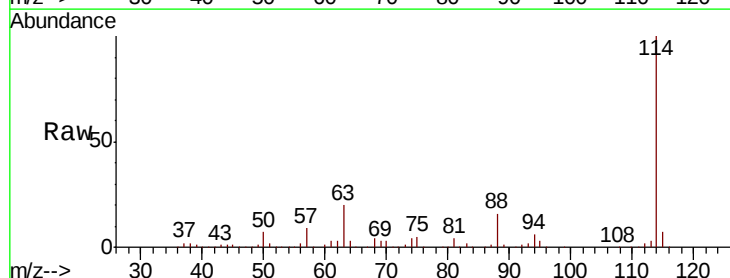
Manual Integrations  
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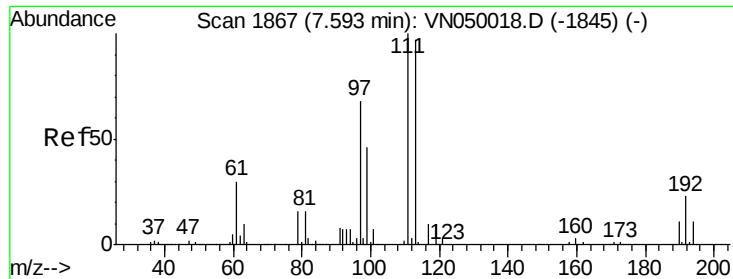
MMDadoda  
 8/3/2018 9:36:36 AM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2177  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 880294 |       |       |
| 63      | 20.4  | 0.0    | 40.0  |       |
| 88      | 15.7  | 0.0    | 31.2  |       |





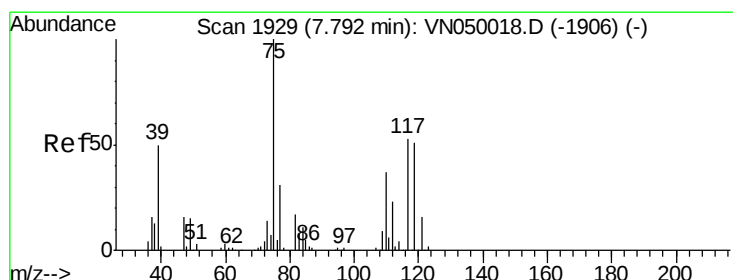
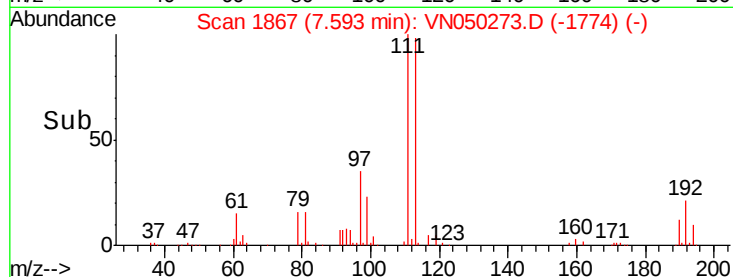
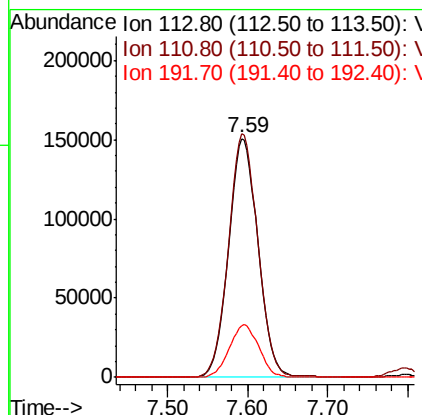
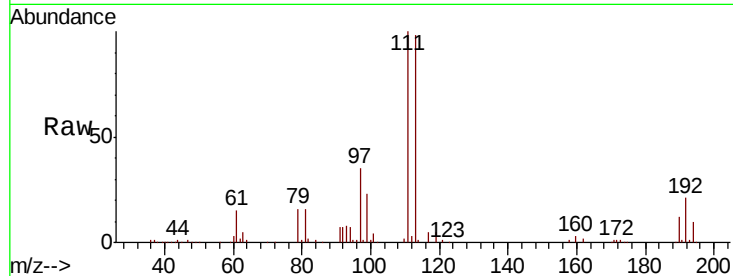
#35  
 Dibromofluoromethane  
 Concen: 52.475 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 377154 |       |       |
| 111     | 101.8 | 80.7   | 121.1 |       |
| 192     | 22.0  | 17.8   | 26.6  |       |

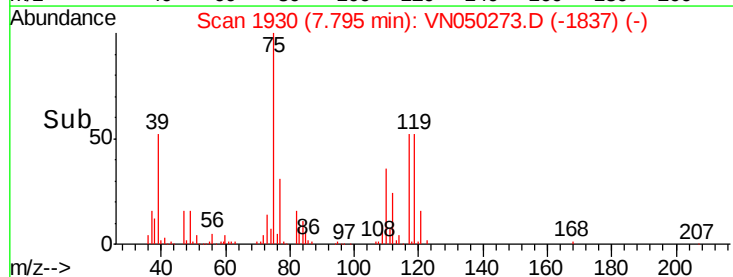
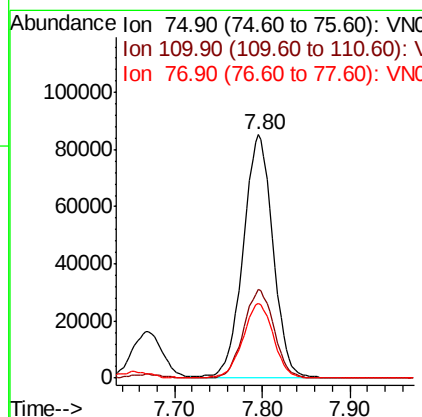
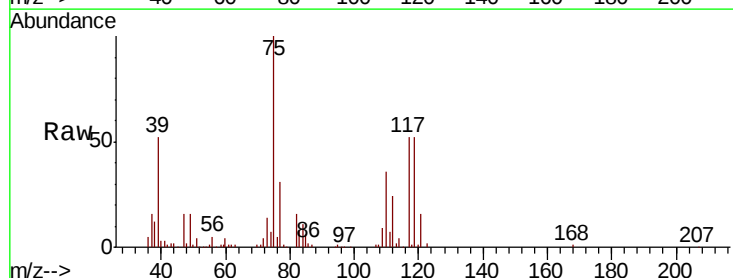
Manual Integrations  
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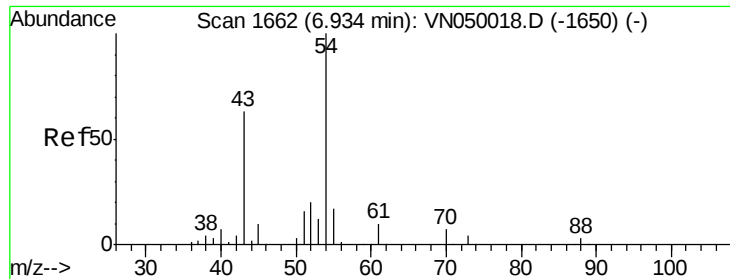
MMDadoda  
 8/3/2018 9:36:36 AM



#36  
 1,1-Dichloropropene  
 Concen: 20.233 ug/l  
 RT: 7.80 min Scan# 1930  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 200664 |       |       |
| 110     | 37.2  | 18.4   | 55.2  |       |
| 77      | 31.5  | 25.3   | 37.9  |       |





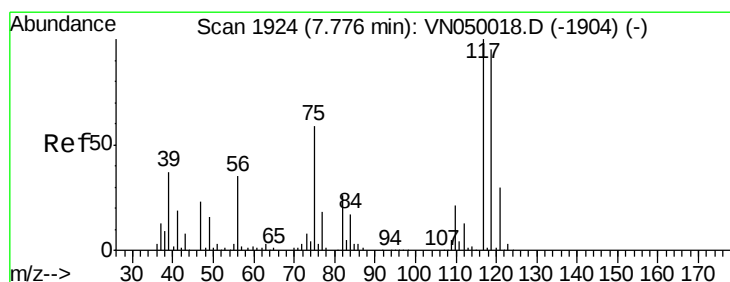
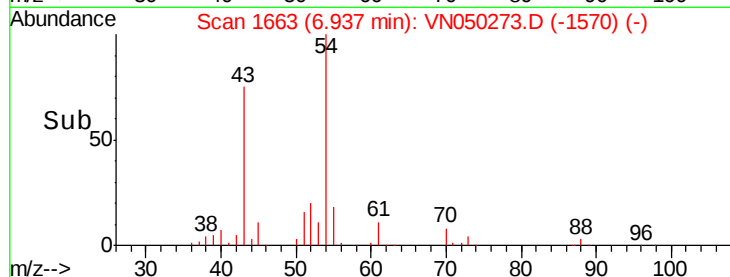
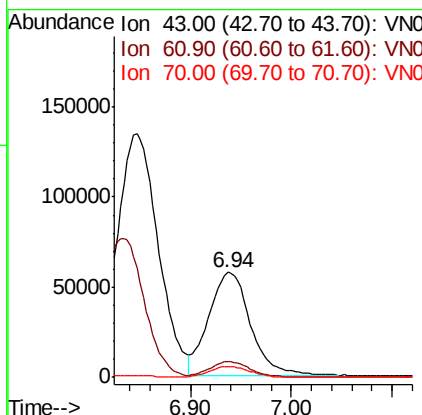
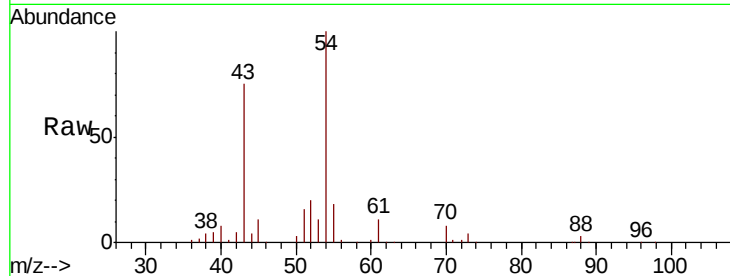
#37  
Ethyl Acetate  
Concen: 24.007 ug/l  
RT: 6.94 min Scan# 1663  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.2  | 11.8  | 17.8  |
| 70      | 10.4  | 8.4   | 12.6  |

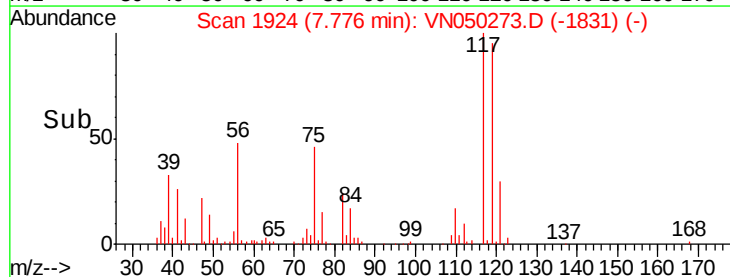
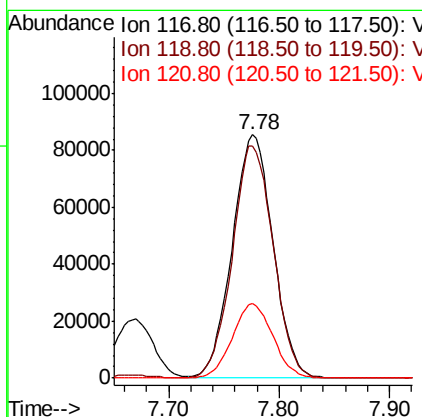
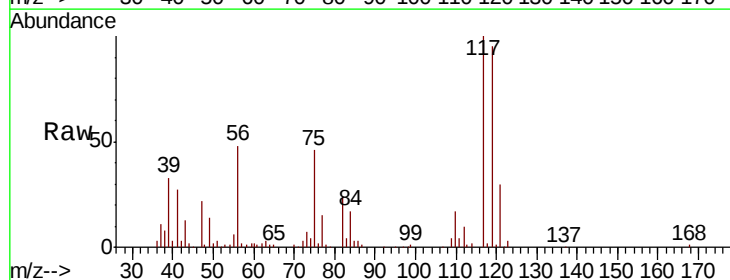
Manual Integrations  
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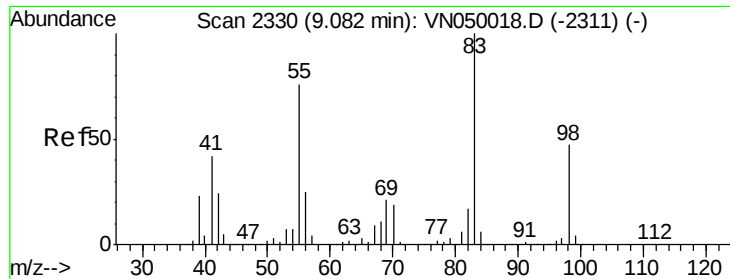
MMDadoda  
8/3/2018 9:36:36 AM



#38  
Carbon Tetrachloride  
Concen: 20.823 ug/l  
RT: 7.78 min Scan# 1924  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 95.1  | 77.4  | 116.0 |
| 121     | 30.5  | 23.9  | 35.9  |





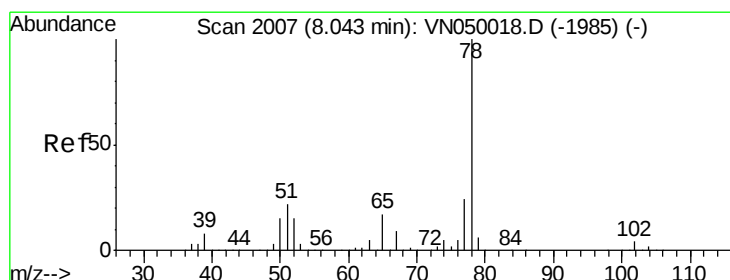
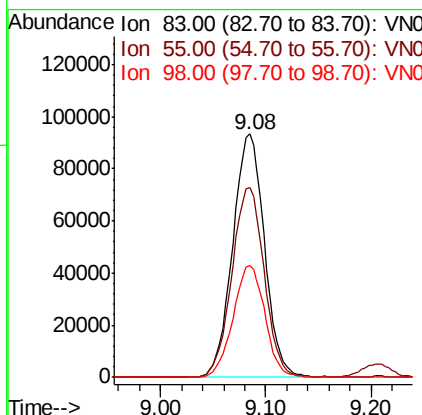
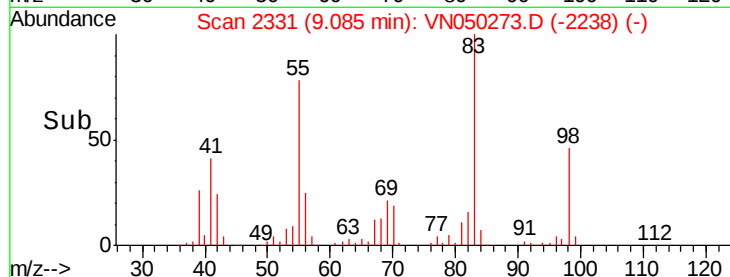
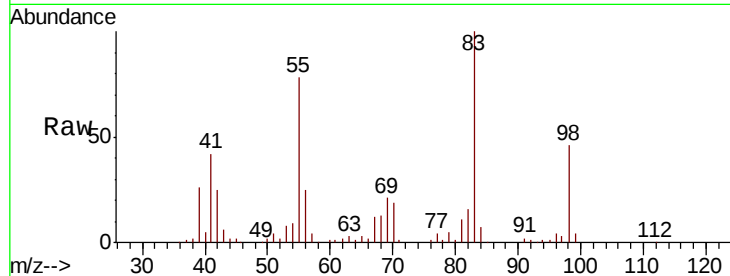
#39  
Methvlcvclohexane  
Concen: 19.090 ug/l  
RT: 9.08 min Scan# 2331  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion   | 83.00 | Resp  | 194773 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 83        | 100   |       |        |
| 55        | 78.1  | 61.8  | 92.8   |
| 98        | 46.1  | 36.5  | 54.7   |

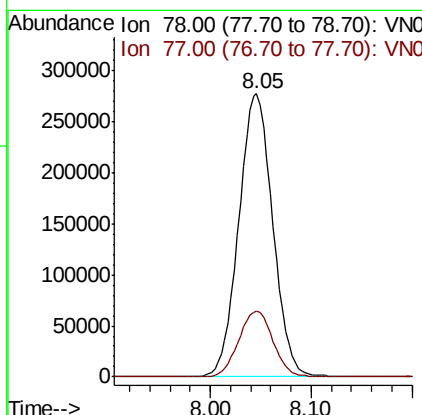
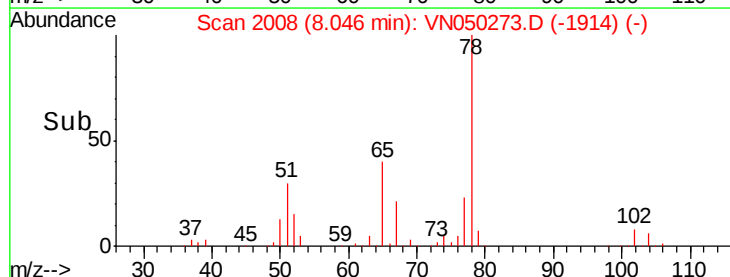
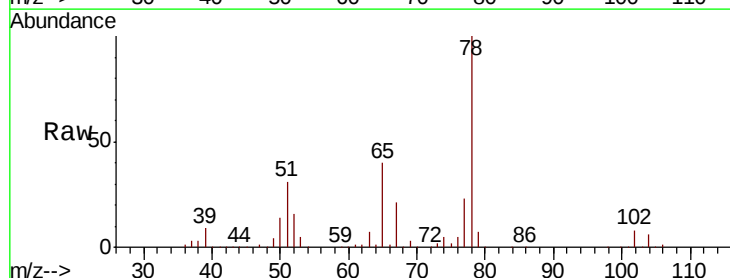
Manual Integrations  
APPROVED

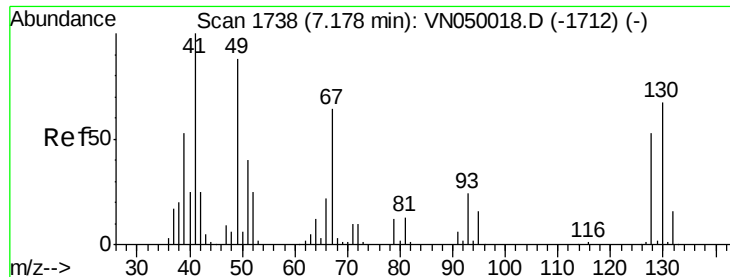
MMDadoda  
8/3/2018 9:36:36 AM



#40  
Benzene  
Concen: 21.405 ug/l  
RT: 8.05 min Scan# 2008  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion   | 78.00 | Resp  | 645980 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 78        | 100   |       |        |
| 77        | 23.4  | 18.7  | 28.1   |





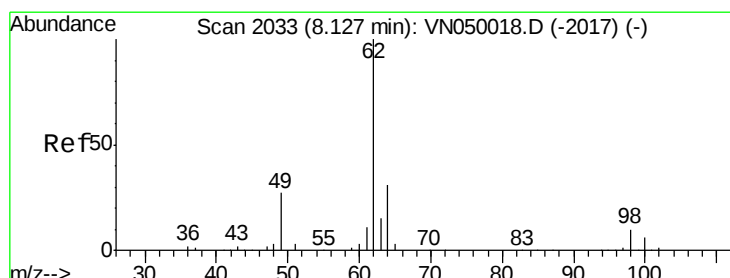
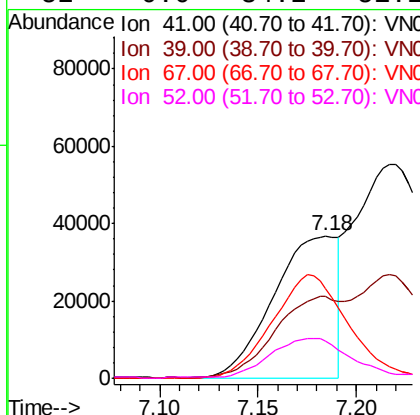
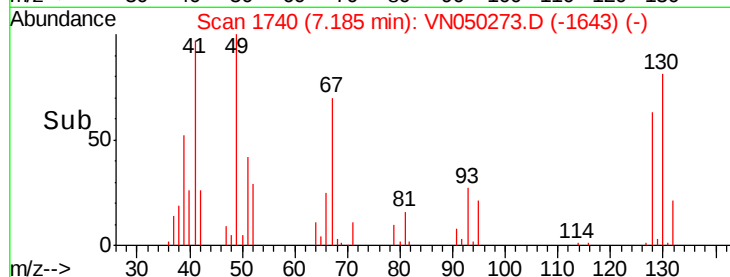
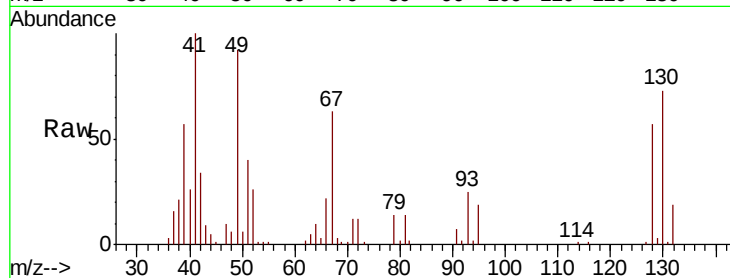
#41  
Methacrylonitrile  
Concen: 24.968 ug/l m  
RT: 7.18 min Scan# 1740  
Delta R.T. 0.01 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0802MBS01

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 41      | 100   |       |        |
| 39      | 0.0   | 55.8  | 83.6#  |
| 67      | 0.0   | 84.3  | 126.5# |
| 52      | 0.0   | 34.2  | 51.2#  |

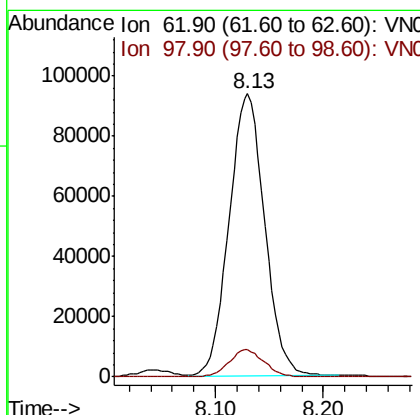
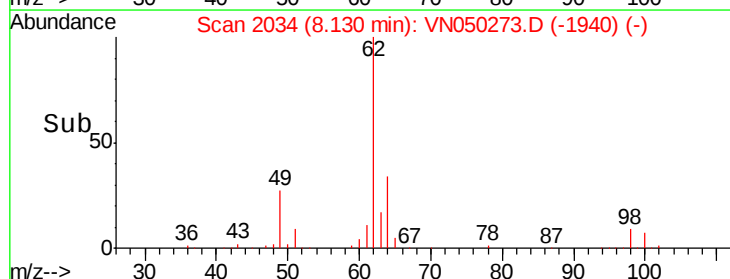
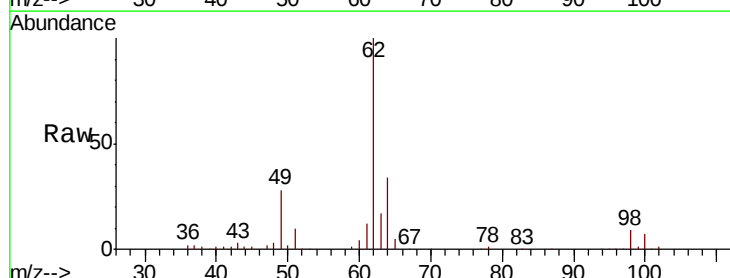
Manual Integrations  
APPROVED

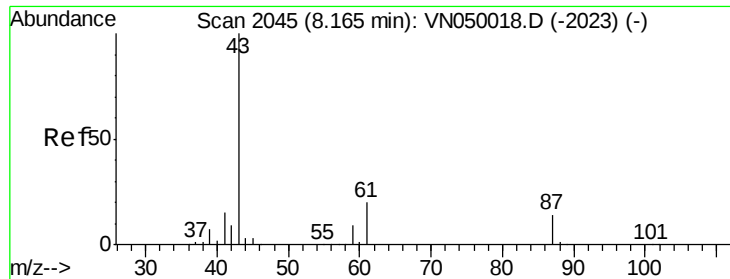
MMDadoda  
8/3/2018 9:36:36 AM



#42  
1,2-Dichloroethane  
Concen: 21.413 ug/l  
RT: 8.13 min Scan# 2034  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 9.4   | 0.0   | 18.8  |





#43

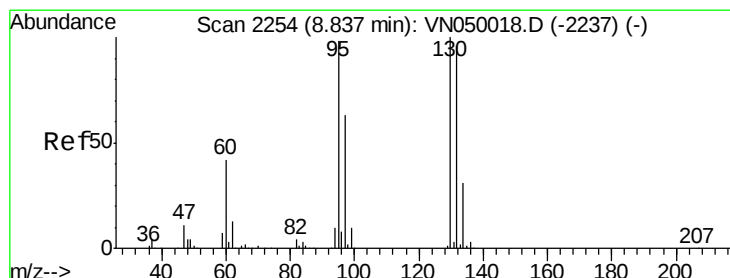
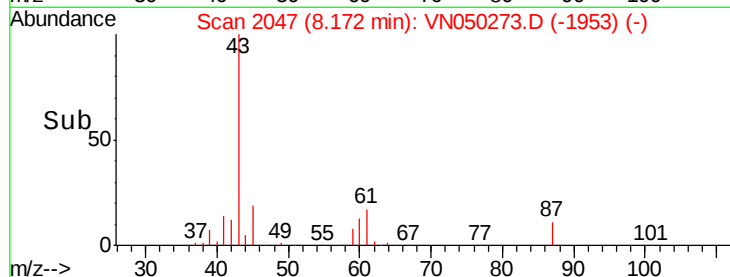
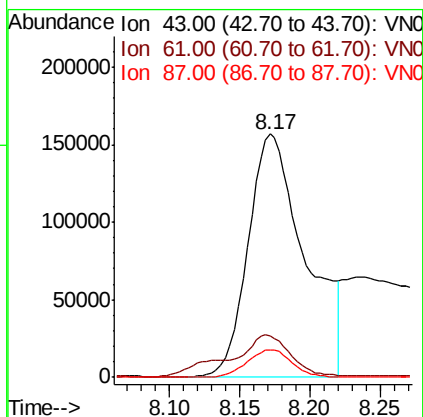
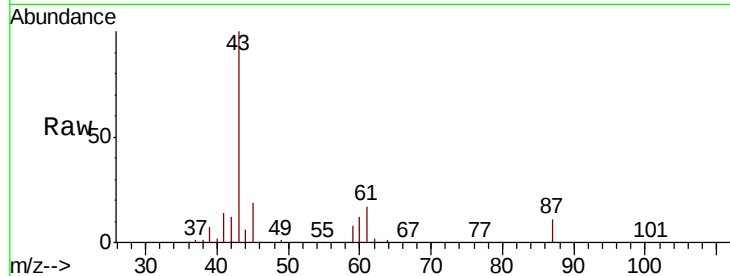
Isopropyl Acetate  
 Concen: 33.548 ug/l  
 RT: 8.17 min Scan# 2047  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 12.7  | 15.8  | 23.6# |
| 87      | 8.9   | 10.3  | 15.5# |

Manual Integrations  
 APPROVED

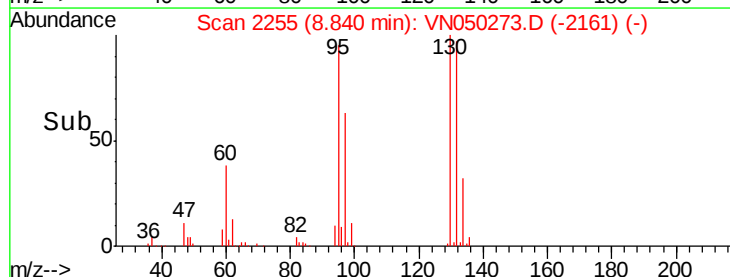
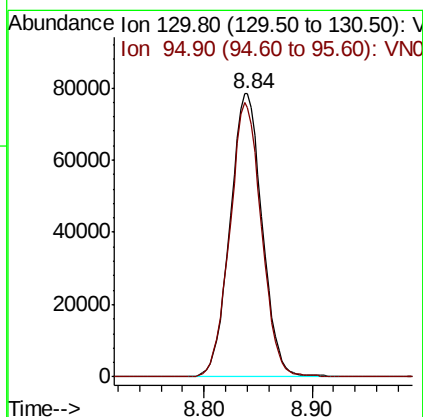
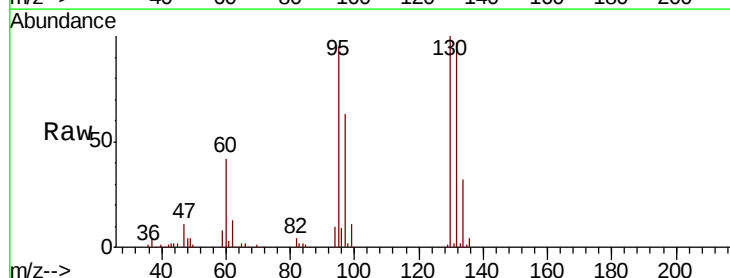
MMDadoda  
 8/3/2018 9:36:36 AM

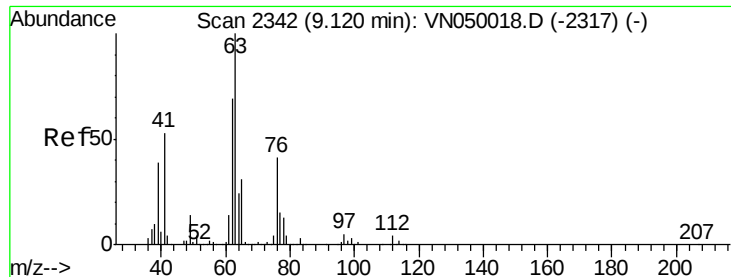


#44

Trichloroethene  
 Concen: 20.064 ug/l  
 RT: 8.84 min Scan# 2255  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 95.4  | 0.0   | 194.6 |





#45

1,2-Dichloropropane

Concen: 21.748 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 63 Resp: 173846

Ion Ratio Lower Upper

63 100

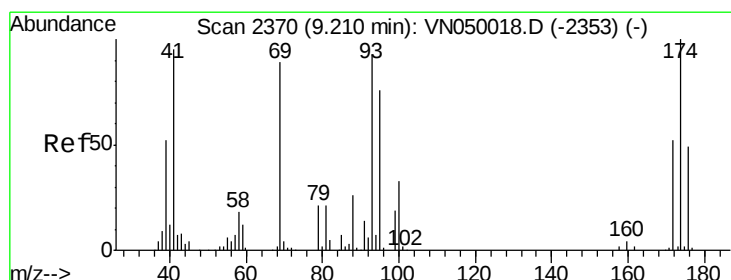
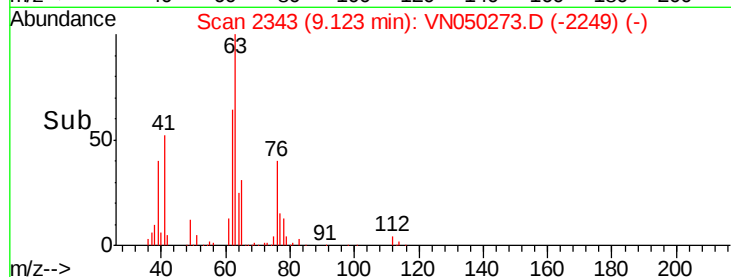
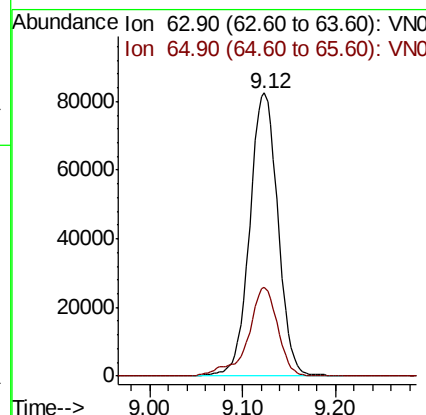
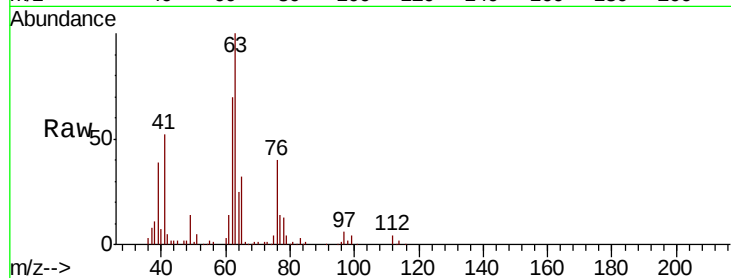
65 31.6 25.5 38.3

Manual Integrations

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MMDadoda

8/3/2018 9:36:36 AM



#46

Dibromomethane

Concen: 22.228 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

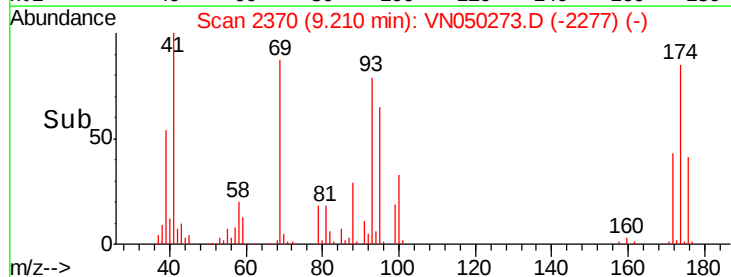
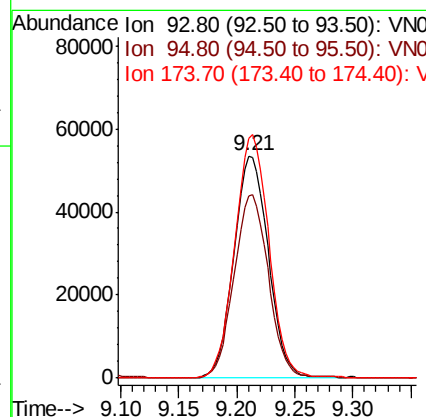
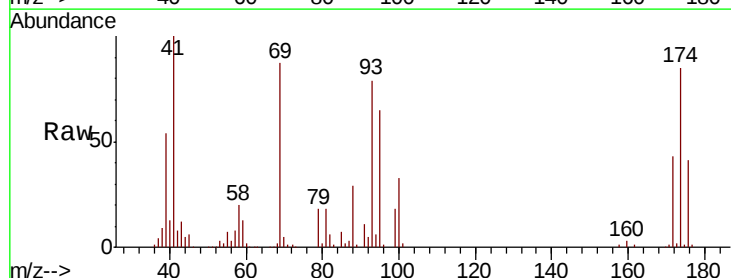
Tgt Ion: 93 Resp: 110325

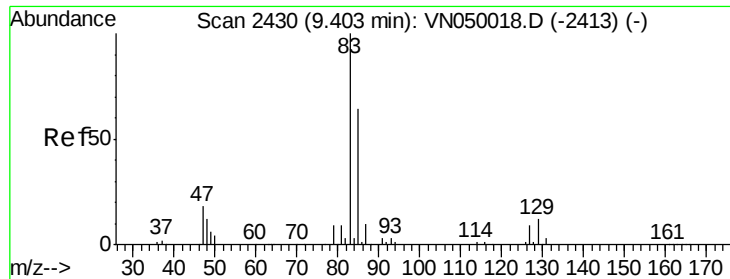
Ion Ratio Lower Upper

93 100

95 82.7 66.6 100.0

174 108.2 87.1 130.7





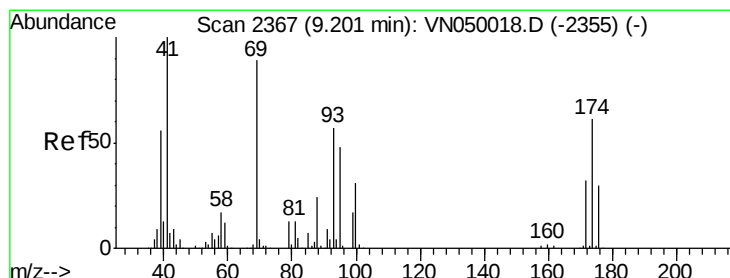
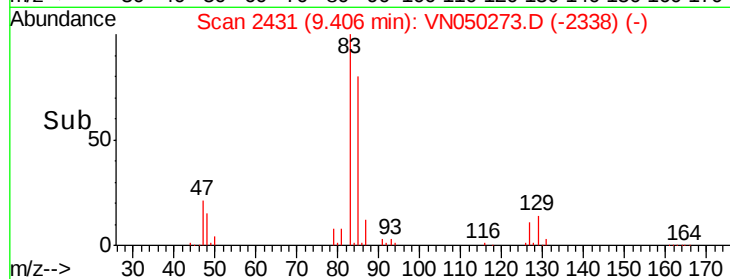
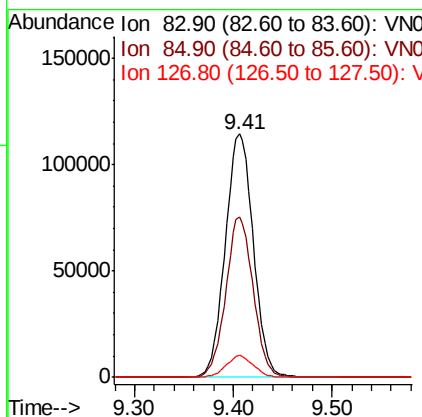
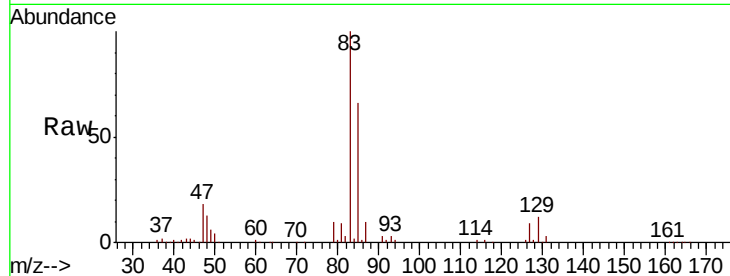
#47  
Bromodichloromethane  
Concen: 21.783 ug/l  
RT: 9.41 min Scan# 2431  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 228190 |       |       |
| 85      | 65.8  | 51.1   | 76.7  |       |
| 127     | 8.9   | 7.0    | 10.4  |       |

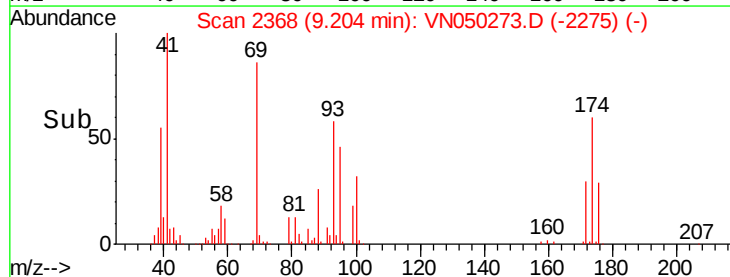
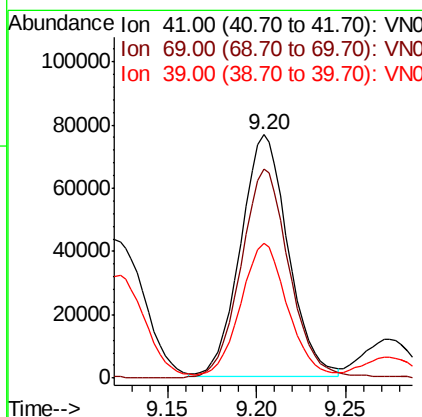
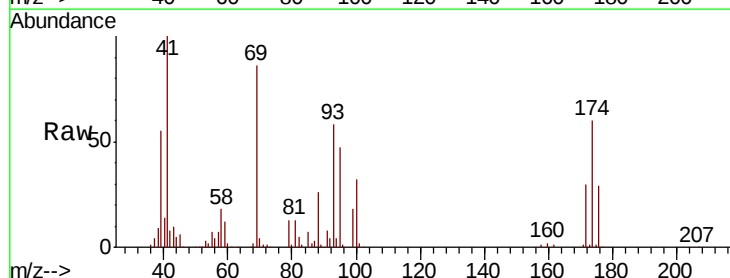
Manual Integrations  
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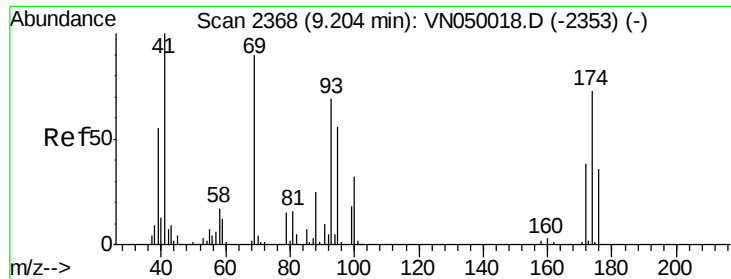
MMDadoda  
8/3/2018 9:36:36 AM



#48  
Methyl methacrylate  
Concen: 24.094 ug/l  
RT: 9.20 min Scan# 2368  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 41      | 100   | 143485 |       |       |
| 69      | 88.1  | 70.6   | 105.8 |       |
| 39      | 54.8  | 43.9   | 65.9  |       |





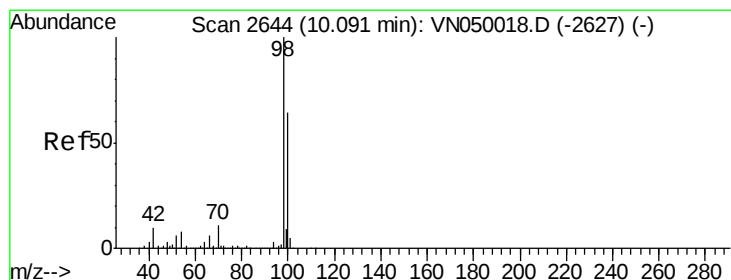
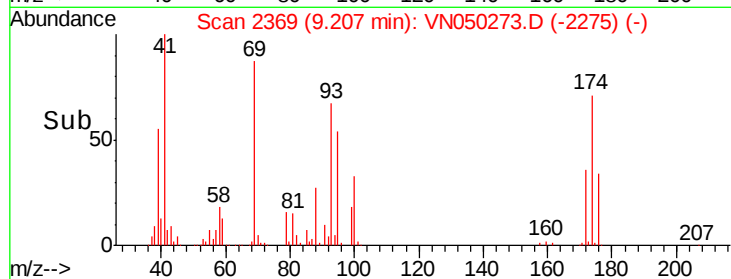
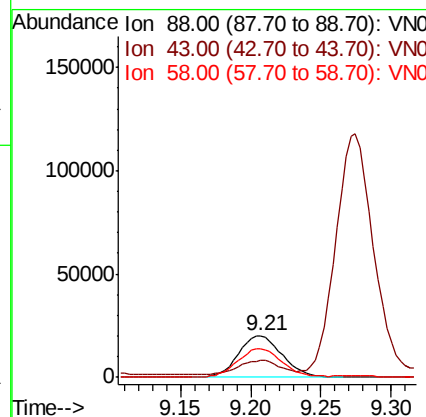
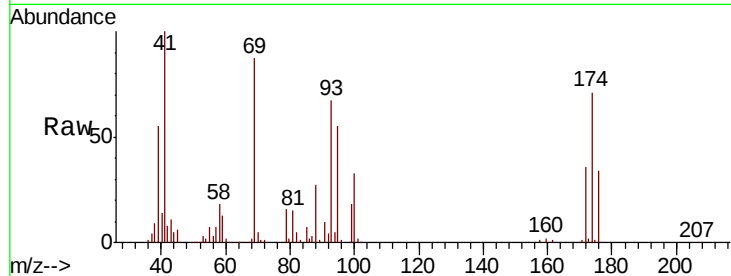
#49  
1,4-Dioxane  
Concen: 541.577 ug/l  
RT: 9.21 min Scan# 2369  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 33.6  | 26.9  | 40.3  |
| 58      | 69.9  | 57.3  | 85.9  |

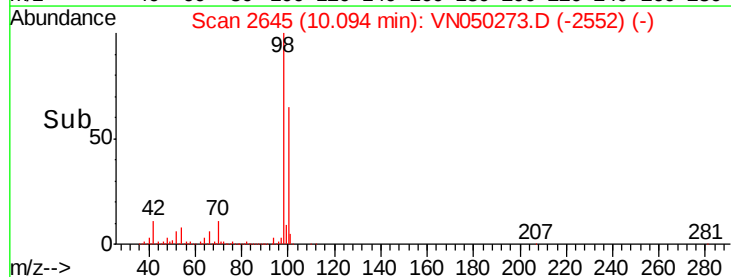
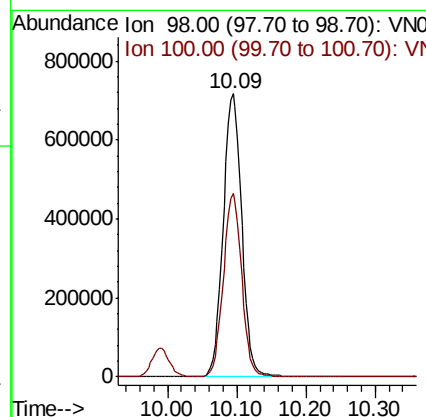
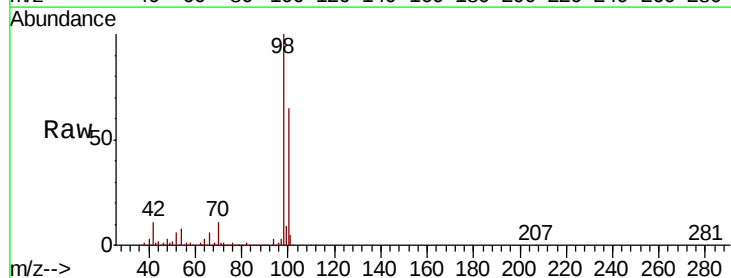
Manual Integrations  
APPROVED

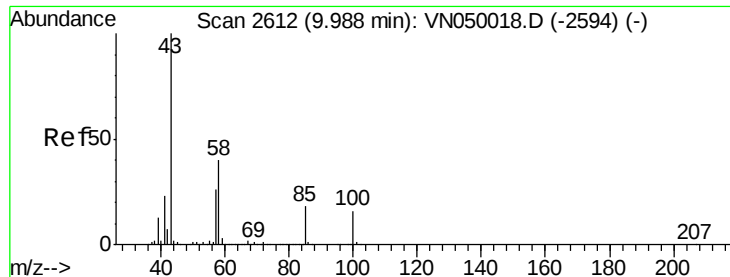
MMDadoda  
8/3/2018 9:36:36 AM



#50  
Toluene-d8  
Concen: 50.547 ug/l  
RT: 10.09 min Scan# 2645  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.6  | 50.7  | 76.1  |





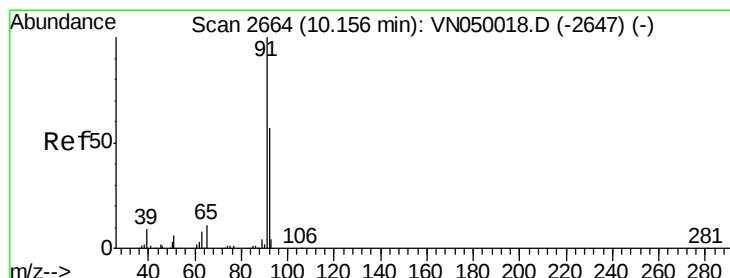
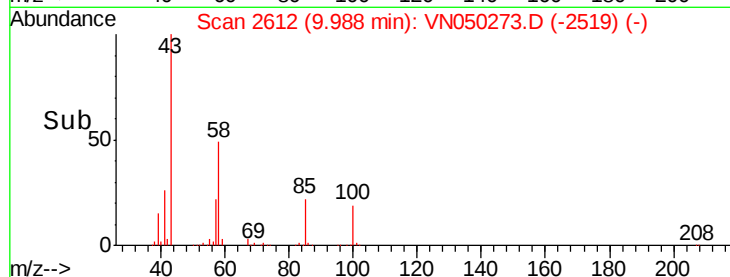
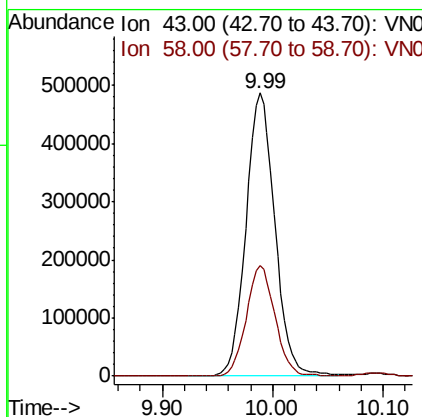
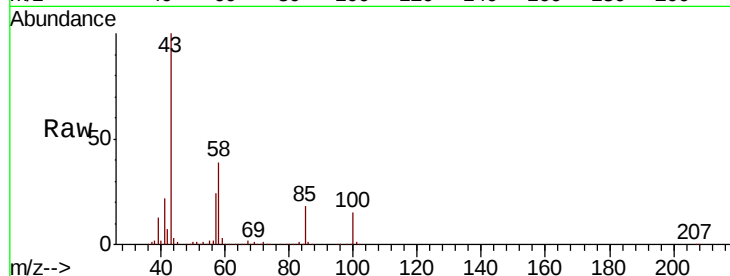
#51  
4-Methyl-2-Pentanone  
Concen: 129.023 ug/l  
RT: 9.99 min Scan# 2612  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 39.0  | 31.9  | 47.9  |

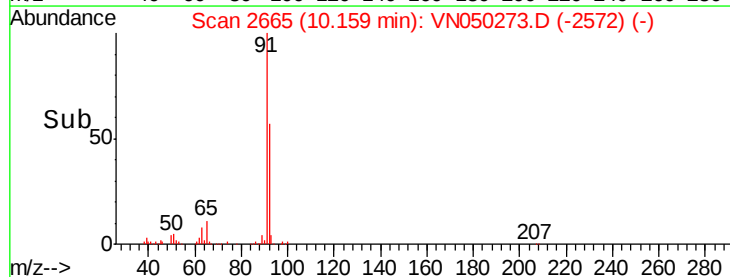
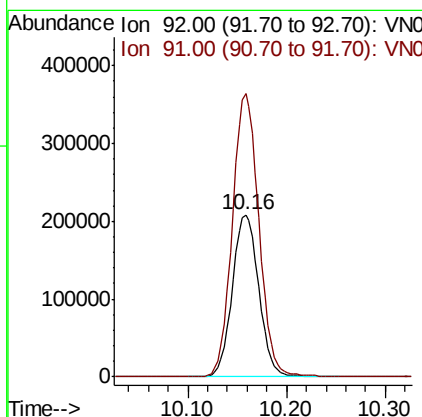
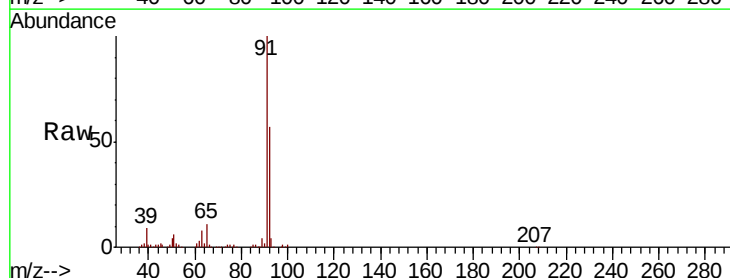
Manual Integrations  
APPROVED

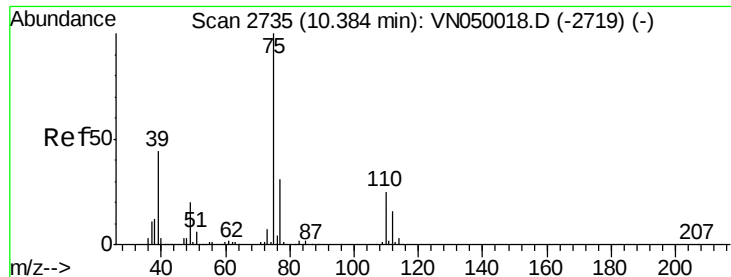
MMDadoda  
8/3/2018 9:36:36 AM



#52  
Toluene  
Concen: 21.912 ug/l  
RT: 10.16 min Scan# 2665  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 175.0 | 140.3 | 210.5 |





#53

t-1,3-Dichloropropene

Concen: 21.386 ug/l

RT: 10.39 min Scan# 2736

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 75 Resp: 211399

Ion Ratio Lower Upper

75 100

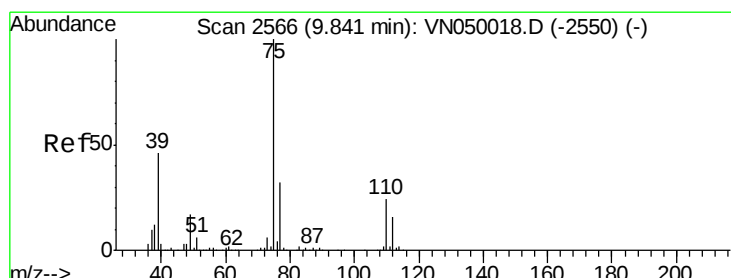
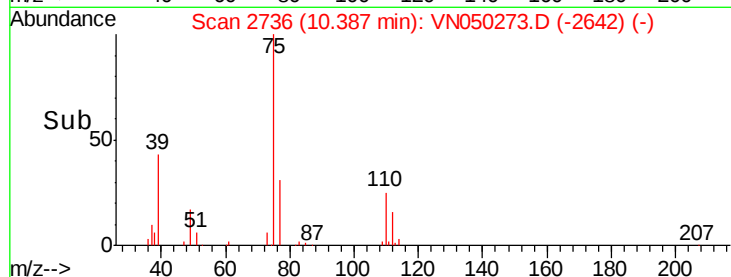
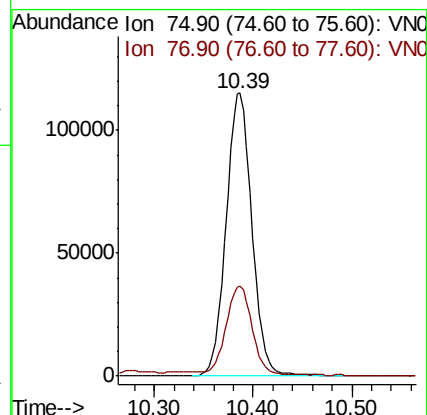
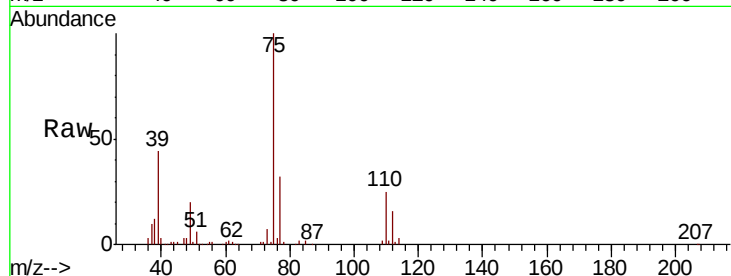
77 31.6 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

8/3/2018 9:36:36 AM



#54

cis-1,3-Dichloropropene

Concen: 21.077 ug/l

RT: 9.84 min Scan# 2567

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

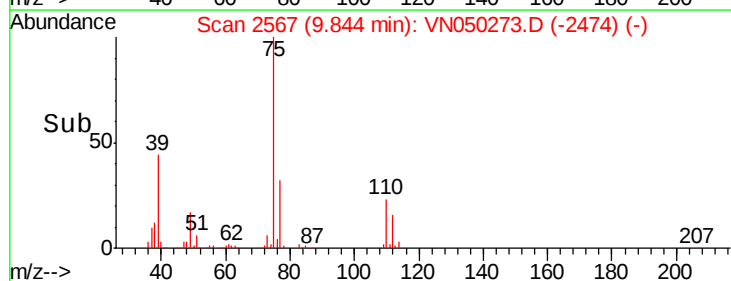
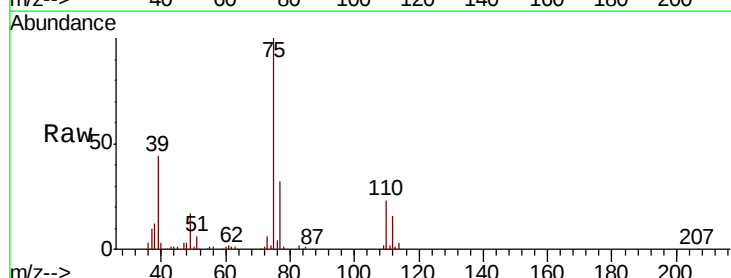
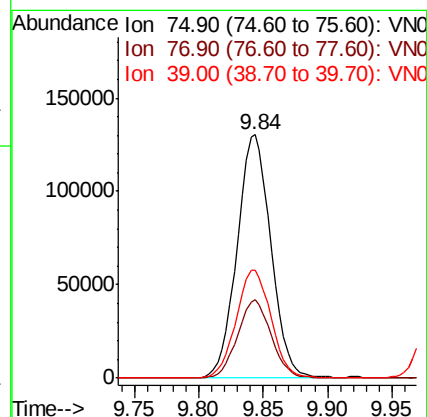
Tgt Ion: 75 Resp: 238114

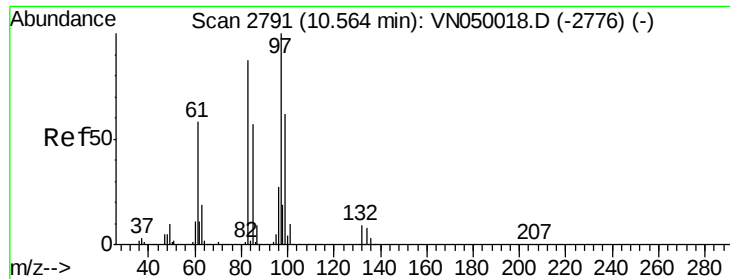
Ion Ratio Lower Upper

75 100

77 32.0 25.5 38.3

39 44.0 36.6 55.0





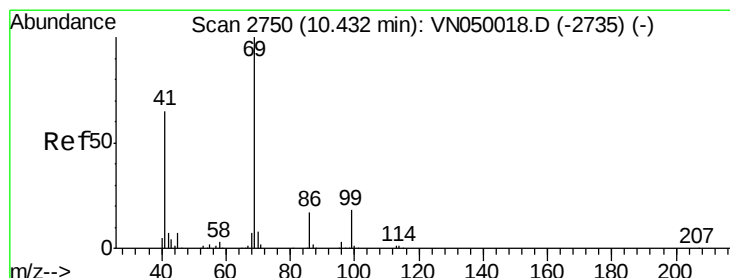
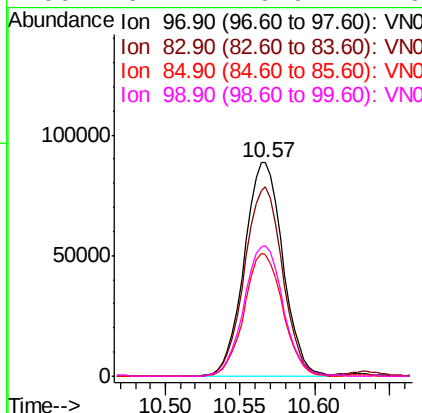
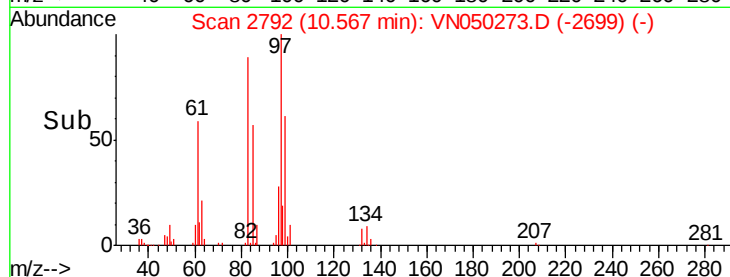
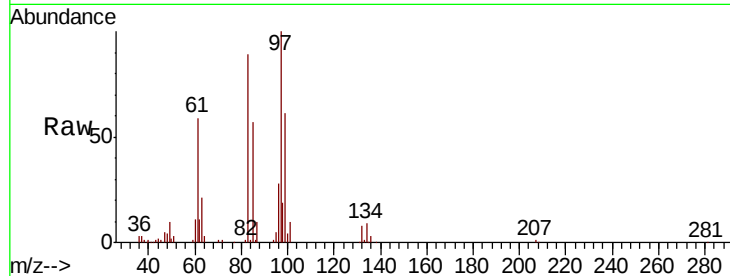
#55  
 1,1,2-Trichloroethane  
 Concen: 22.564 ug/l  
 RT: 10.57 min Scan# 2792  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 159438 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 88.6  | 69.2  | 103.8  |
| 85       | 57.0  | 44.0  | 66.0   |
| 99       | 61.1  | 49.9  | 74.9   |

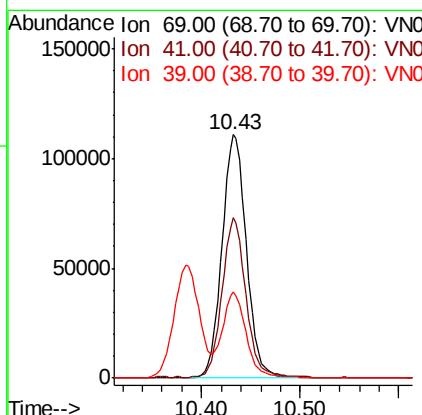
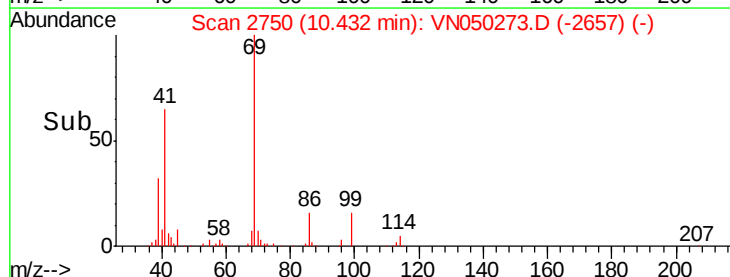
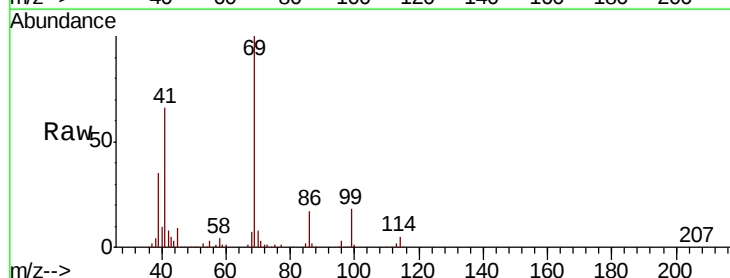
Manual Integrations  
 APPROVED

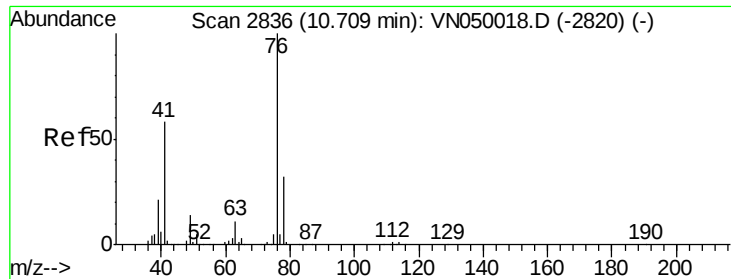
MMDadoda  
 8/3/2018 9:36:36 AM



#56  
 Ethyl methacrylate  
 Concen: 21.419 ug/l  
 RT: 10.43 min Scan# 2750  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 193436 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 63.9  | 51.0  | 76.4   |
| 39       | 34.4  | 26.6  | 40.0   |





#57

1,3-Dichloropropane

Concen: 22.525 ug/l

RT: 10.71 min Scan# 2837

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 76 Resp: 259176

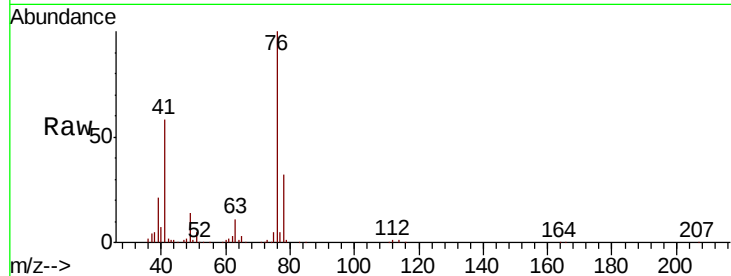
Ion Ratio Lower Upper

76 100

78 31.7 25.7 38.5

Manual Integrations  
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8/3/2018 9:36:36 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

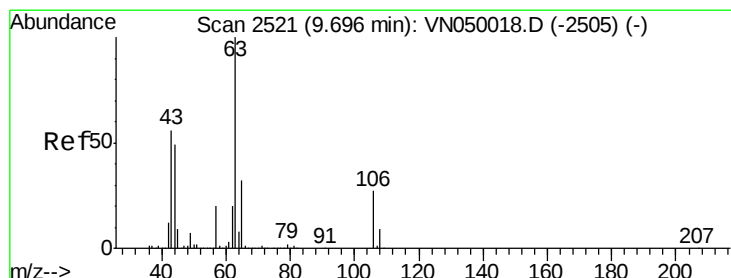
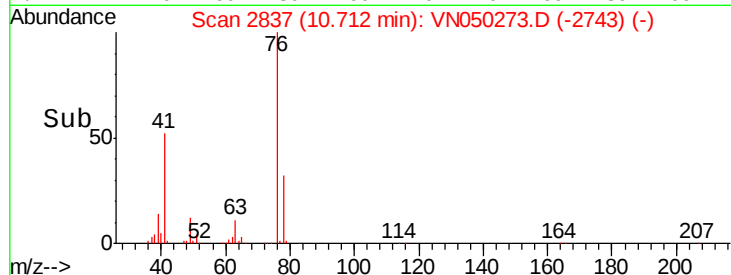
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 96.012 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN050273.D

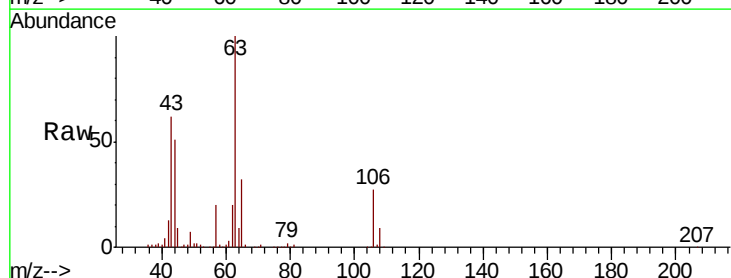
Acq: 2 Aug 2018 19:04

Tgt Ion: 63 Resp: 405045

Ion Ratio Lower Upper

63 100

106 27.0 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

250000

200000

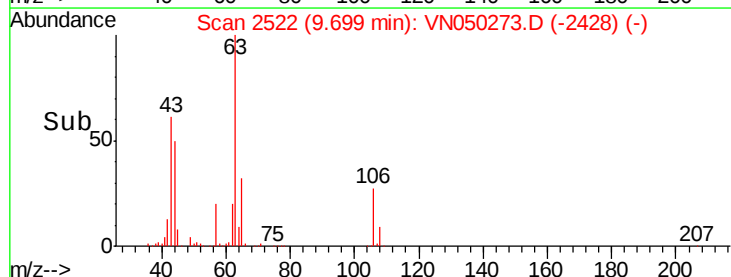
150000

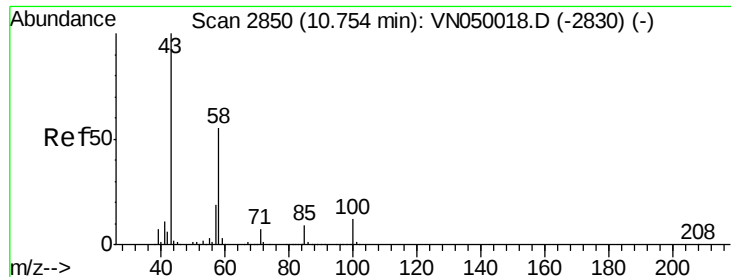
100000

50000

0

Time-->





#59

2-Hexanone

Concen: 120.194 ug/l

RT: 10.76 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 43 Resp: 586654

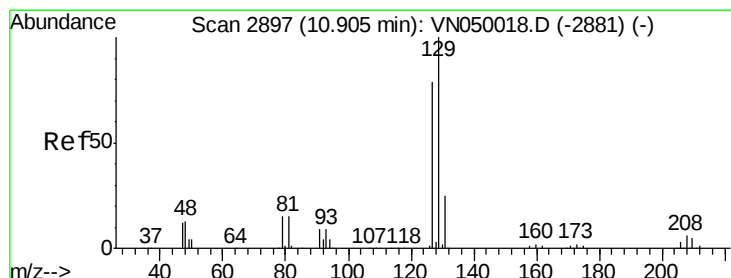
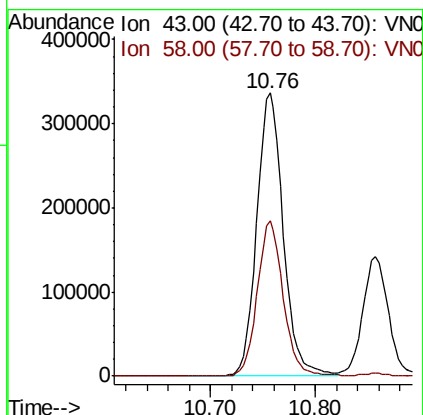
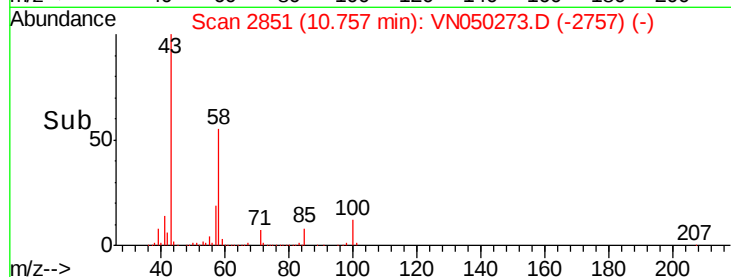
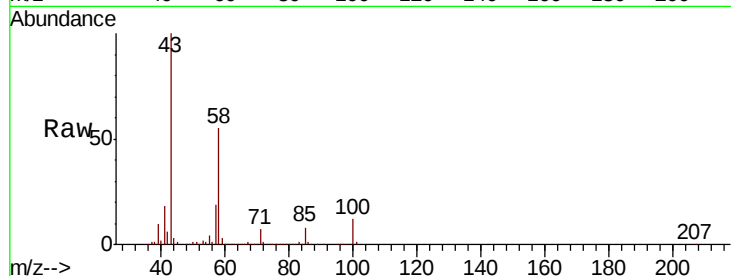
Ion Ratio Lower Upper

43 100

58 54.1 27.6 82.7

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8/3/2018 9:36:36 AM



#60

Dibromochloromethane

Concen: 22.517 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. -0.00 min

Lab File: VN050273.D

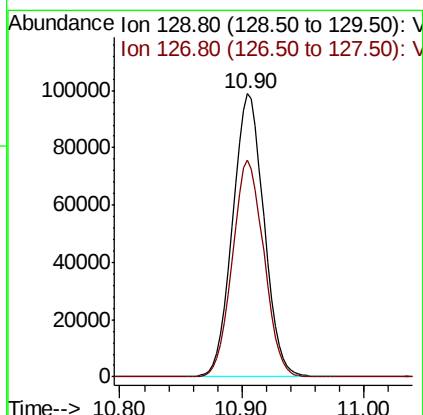
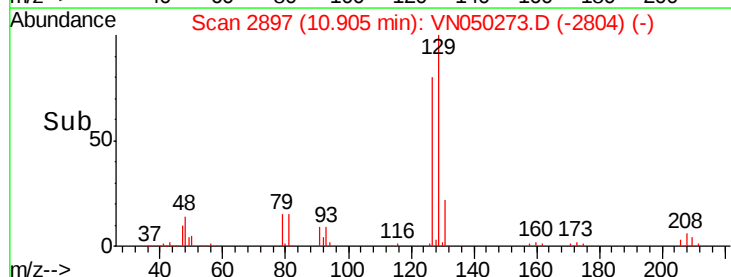
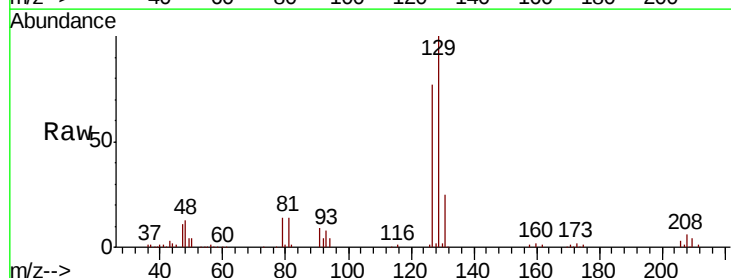
Acq: 2 Aug 2018 19:04

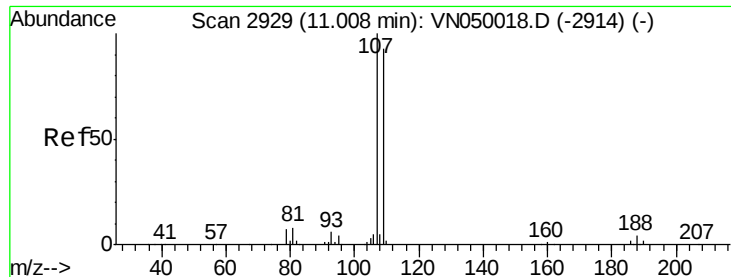
Tgt Ion: 129 Resp: 176154

Ion Ratio Lower Upper

129 100

127 76.9 38.0 113.9





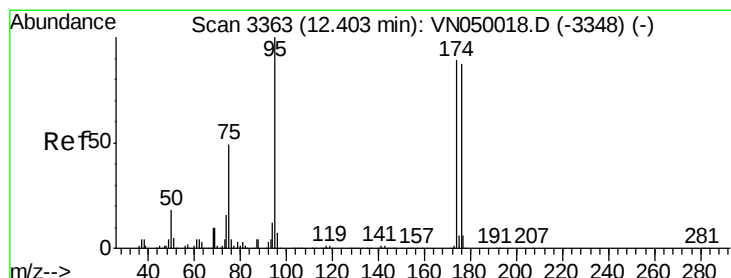
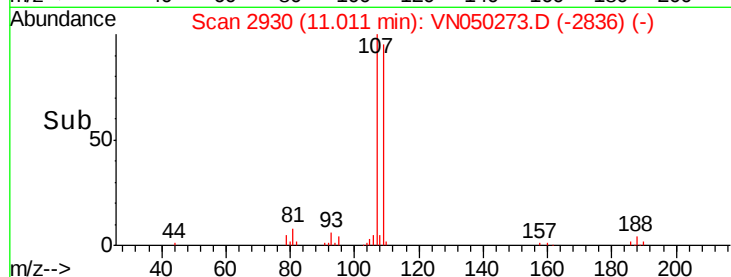
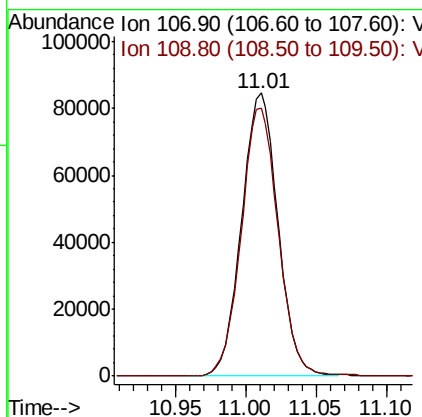
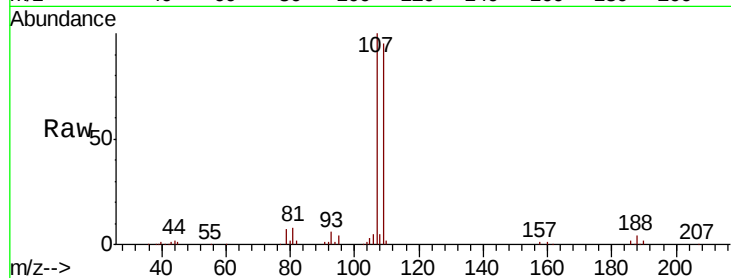
#61  
 1,2-Dibromoethane  
 Concen: 21.822 ug/l  
 RT: 11.01 min Scan# 2930  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 96.3  | 74.6  | 112.0 |

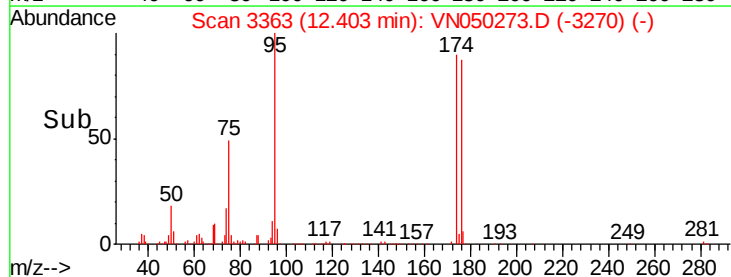
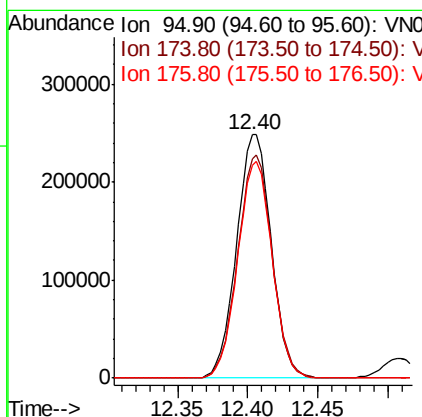
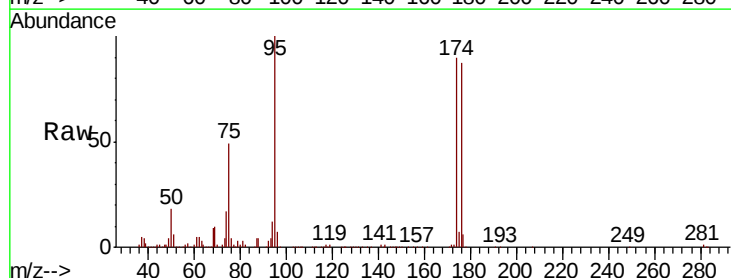
Manual Integrations  
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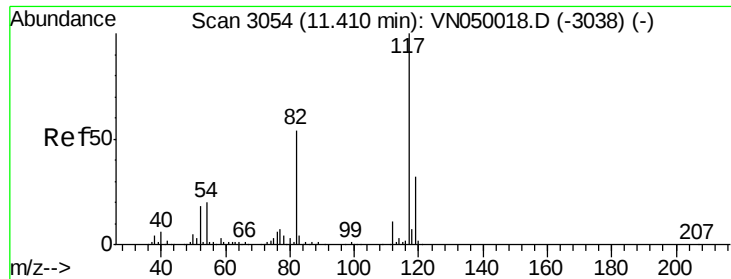
MMDadoda  
 8/3/2018 9:36:36 AM



#62  
 4-Bromofluorobenzene  
 Concen: 49.149 ug/l  
 RT: 12.40 min Scan# 3363  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 91.1  | 0.0   | 178.2 |
| 176     | 88.4  | 0.0   | 173.4 |





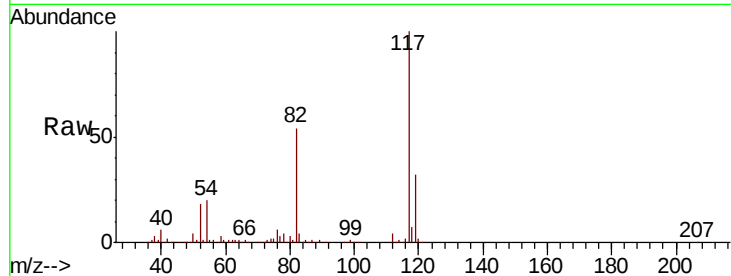
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 3054  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.7  | 43.7  | 65.5  |
| 119     | 32.0  | 26.1  | 39.1  |

Manual Integrations  
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MMDadoda  
8/3/2018 9:36:36 AM

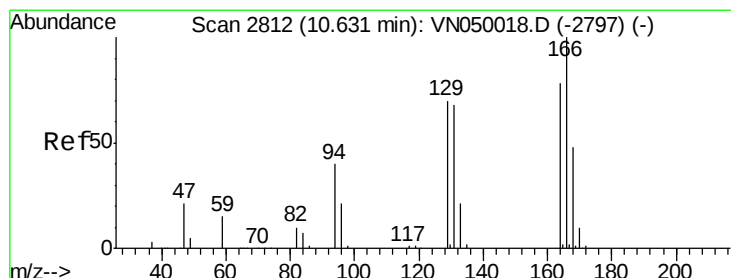
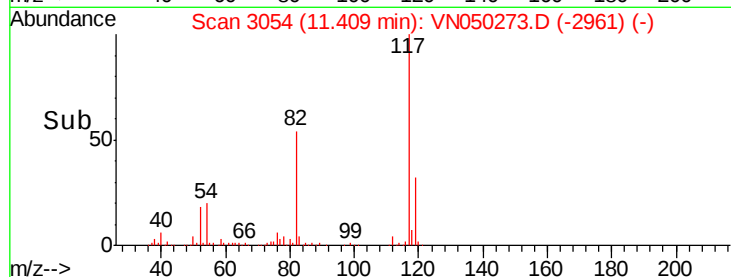
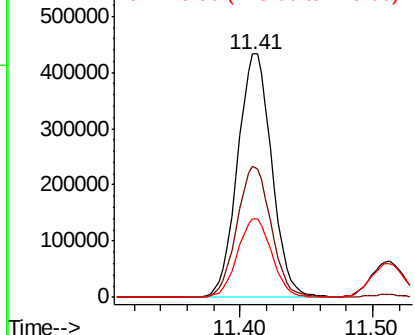


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64  
Tetrachloroethene  
Concen: 19.430 ug/l  
RT: 10.63 min Scan# 2813  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 128.2 | 102.1 | 153.1 |
| 129     | 90.2  | 73.2  | 109.8 |
| 131     | 90.6  | 70.6  | 106.0 |

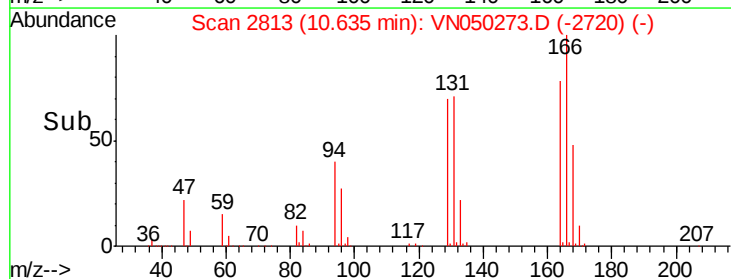
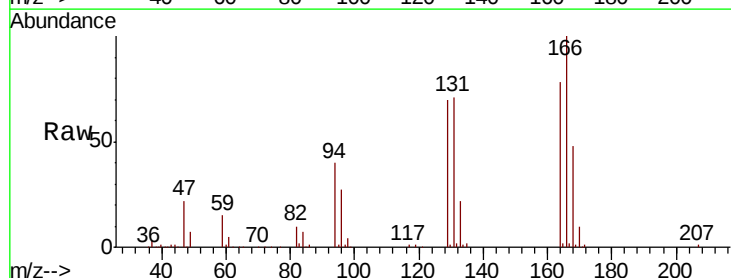
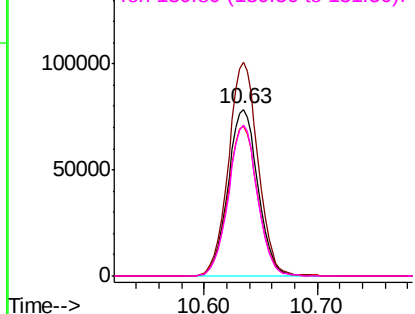
Abundance

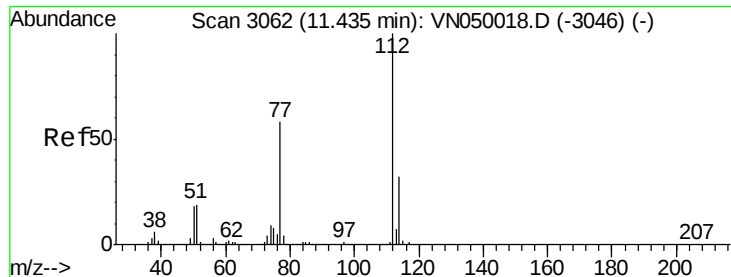
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 21.286 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion:112 Resp: 416419

Ion Ratio Lower Upper

112 100

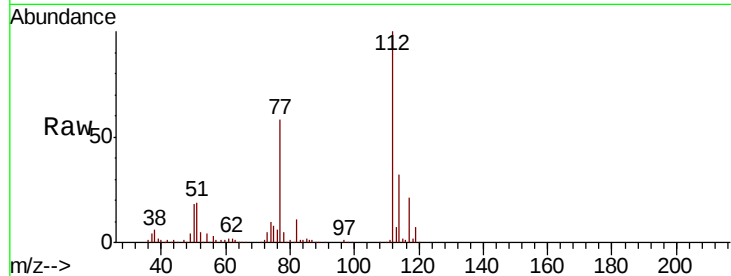
114 32.2 25.6 38.4

Manual Integrations

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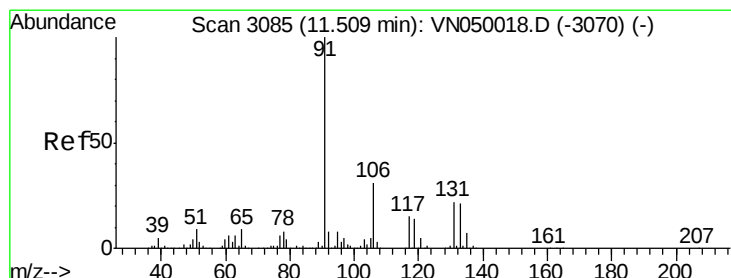
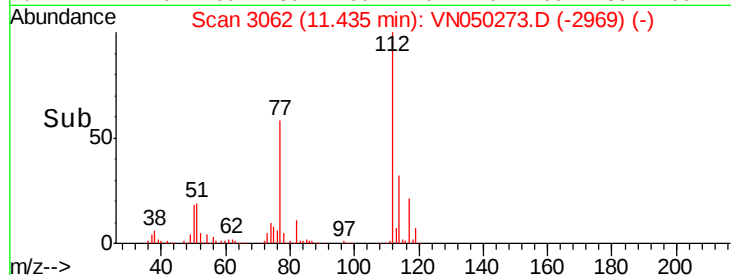
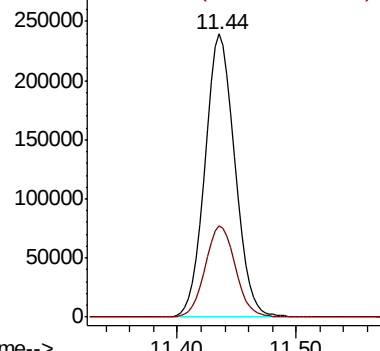
MMDadoda

8/3/2018 9:36:36 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.042 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

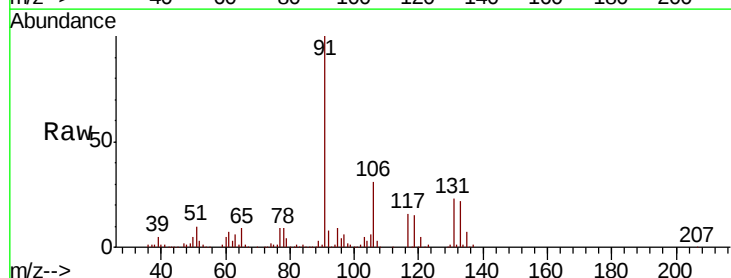
Tgt Ion:131 Resp: 165684

Ion Ratio Lower Upper

131 100

133 95.2 47.3 141.9

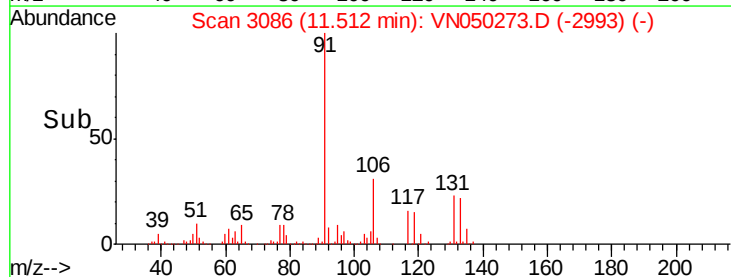
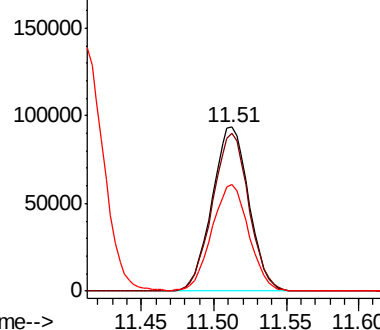
119 65.3 32.9 98.7

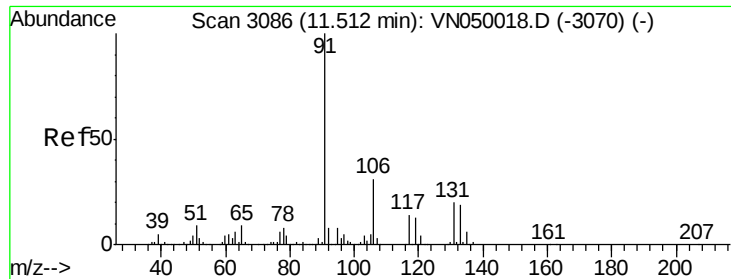


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





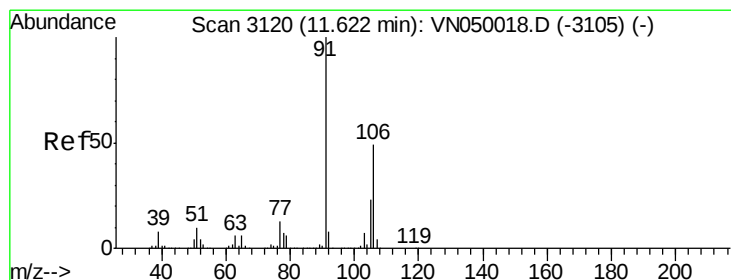
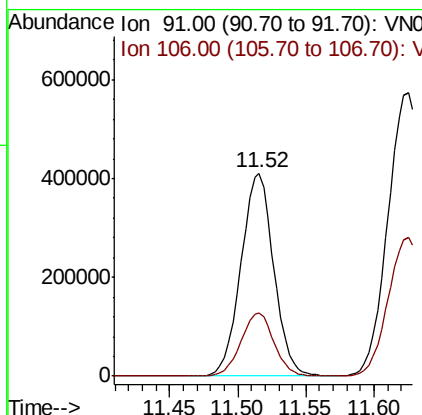
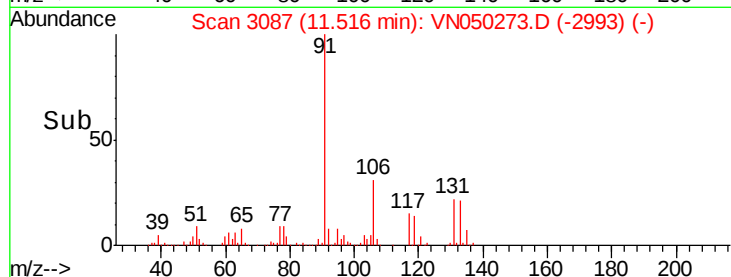
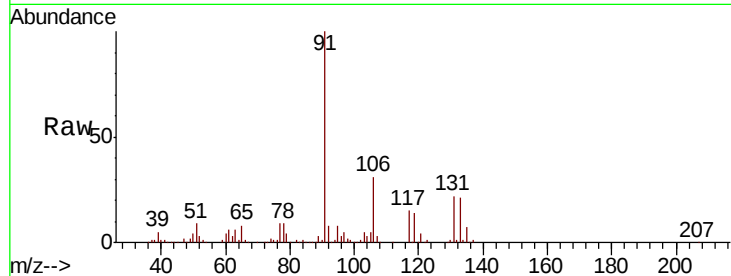
#67  
Ethyl Benzene  
Concen: 21.769 ug/l  
RT: 11.52 min Scan# 3087  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

Tot Ion: 91 Resp: 684100  
Ion Ratio Lower Upper  
91 100  
106 31.4 25.0 37.4

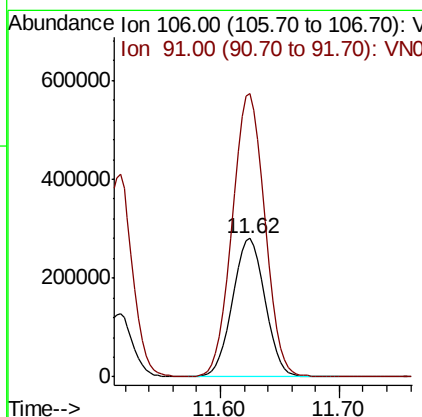
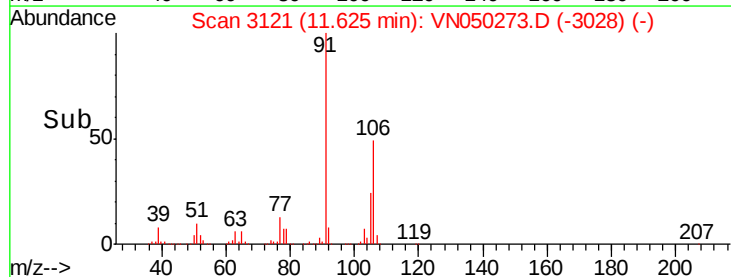
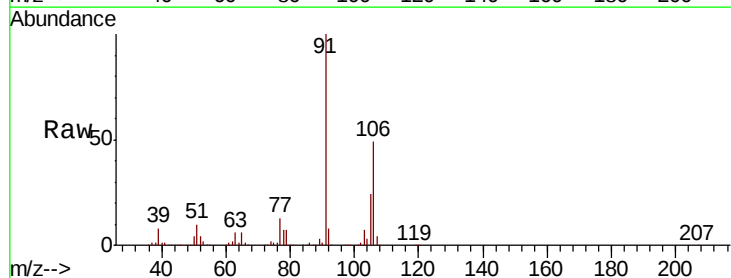
Manual Integrations  
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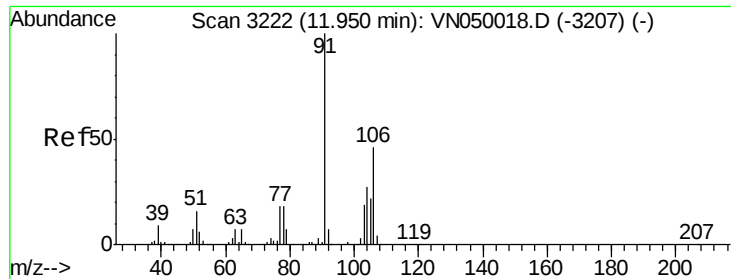
MMDadoda  
8/3/2018 9:36:36 AM



#68  
m/p-Xylenes  
Concen: 44.770 ug/l  
RT: 11.62 min Scan# 3121  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Tgt Ion: 106 Resp: 532151  
Ion Ratio Lower Upper  
106 100  
91 204.7 162.2 243.2





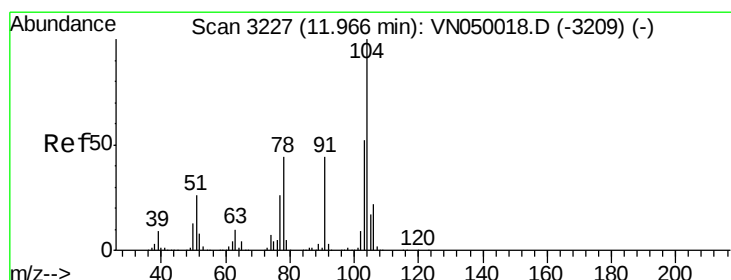
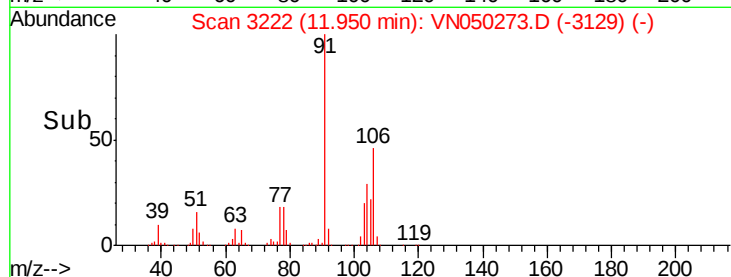
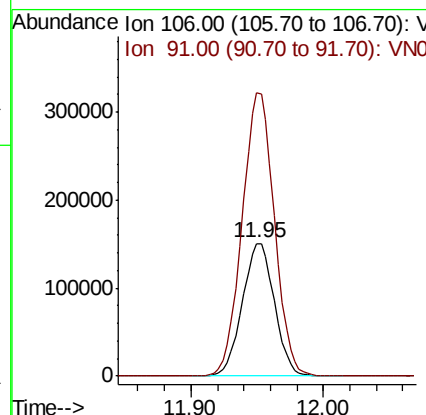
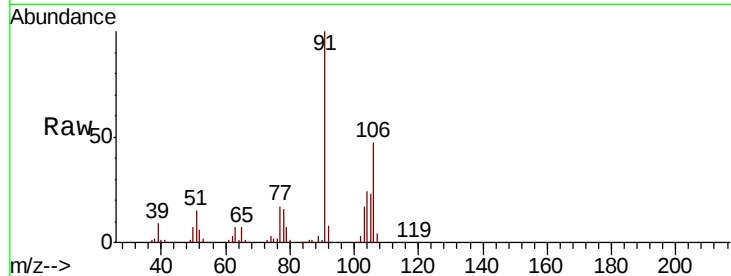
#69  
o-Xylene  
Concen: 22.336 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 106     | 106 | 100   | 253088 |       |       |
| 91      | 91  | 215.1 | 107.7  | 323.1 |       |

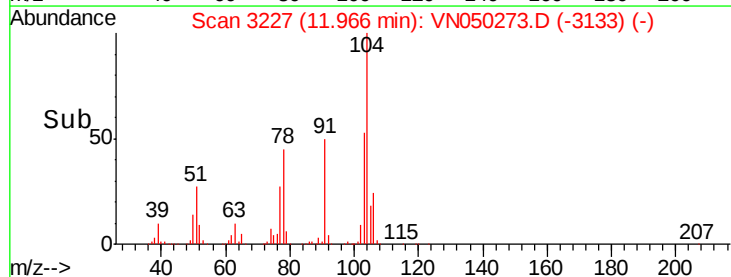
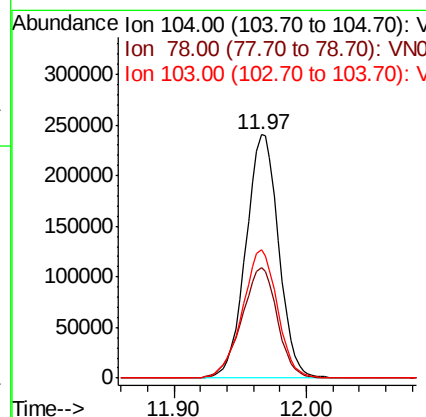
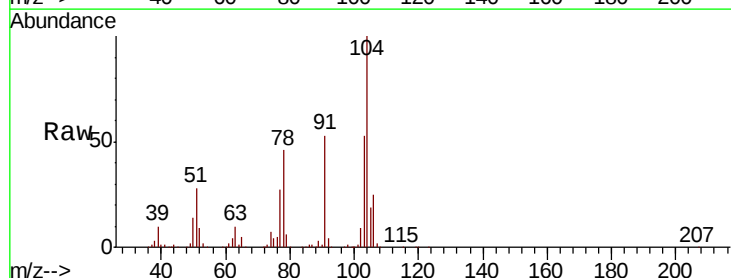
Manual Integrations  
APPROVED

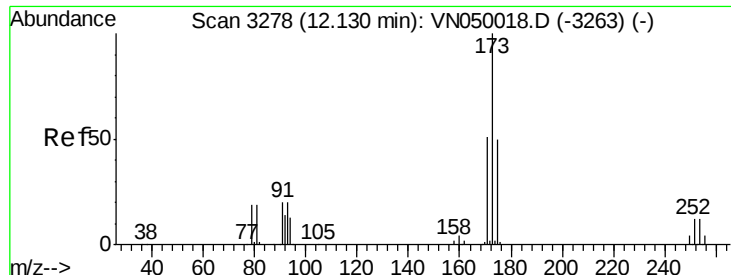
MMDadoda  
8/3/2018 9:36:36 AM



#70  
Styrene  
Concen: 21.025 ug/l  
RT: 11.97 min Scan# 3227  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 104     | 104 | 100   | 412729 |       |       |
| 78      | 78  | 49.4  | 39.3   | 58.9  |       |
| 103     | 103 | 56.1  | 45.0   | 67.6  |       |





#71

Bromoform

Concen: 23.145 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

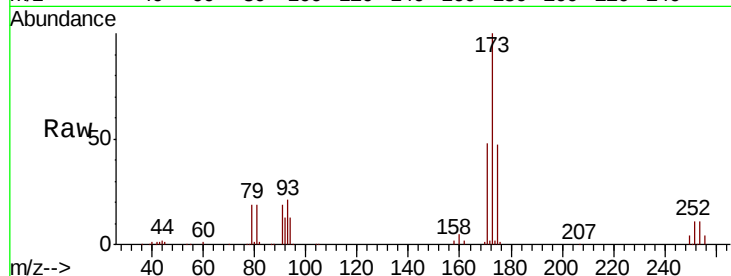
ClientSampleId :

VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.3  | 24.1  | 72.2  |
| 254     | 0.0   | 0.2   | 0.2   |

Manual Integrations  
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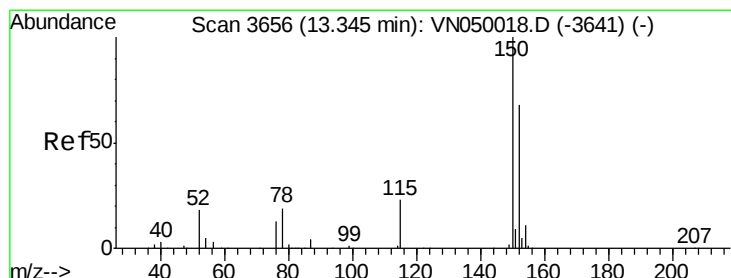
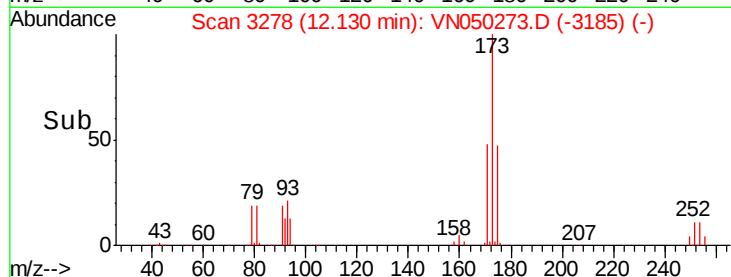
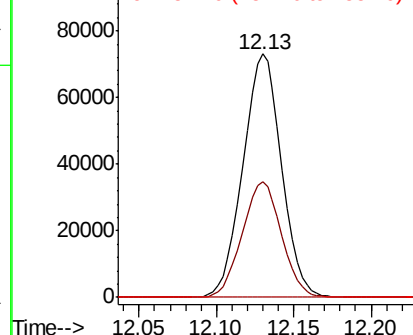


Abundance

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

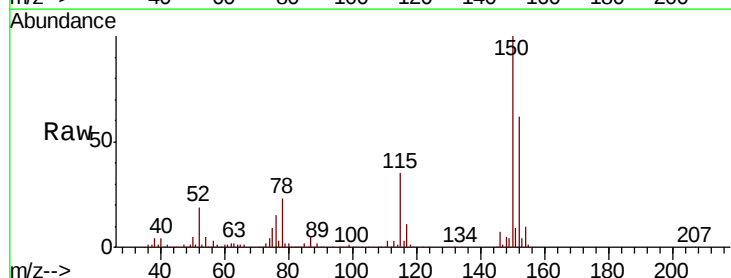
RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.0  | 27.8  | 83.3  |
| 150     | 164.7 | 0.0   | 348.6 |

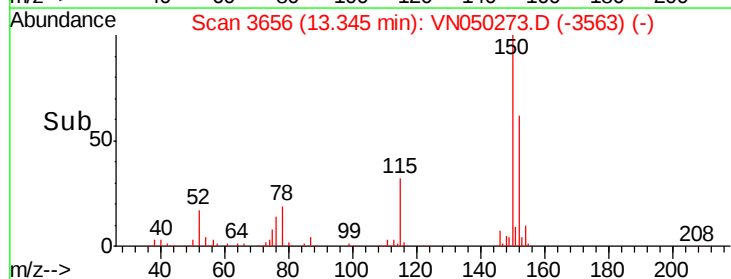
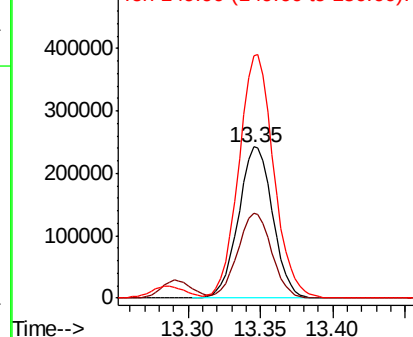


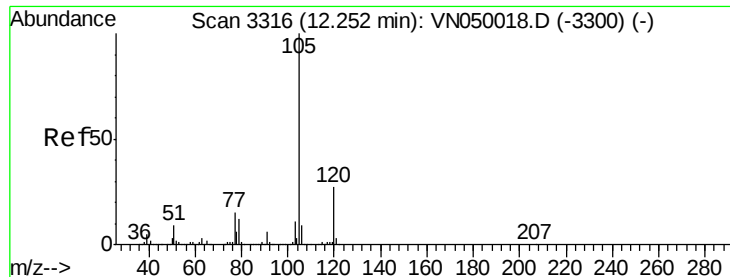
Abundance

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: 22.008 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion: 105 Resp: 676755

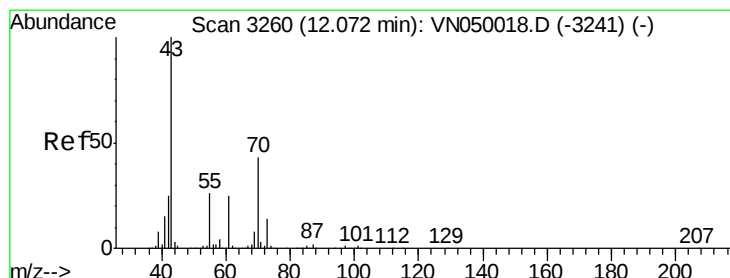
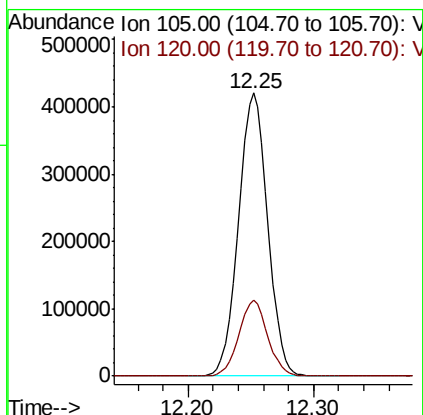
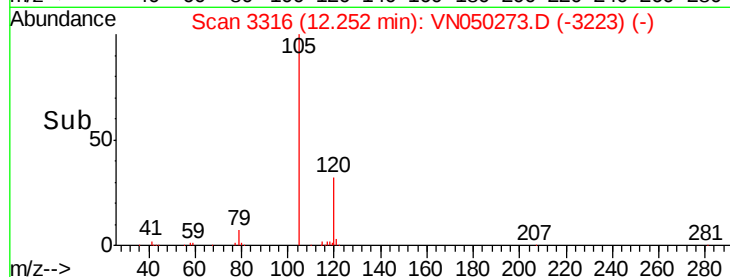
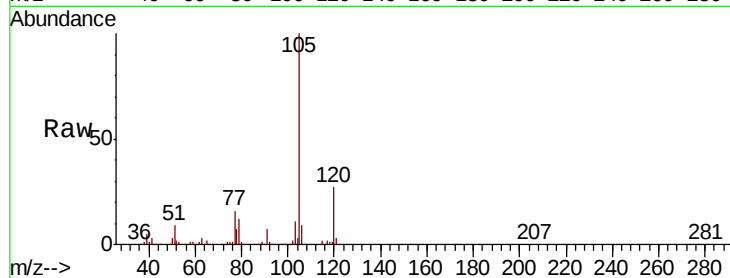
Ion Ratio Lower Upper

105 100

120 26.4 13.3 39.8

Manual Integrations  
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MMDadoda  
8/3/2018 9:36:36 AM



#74

N-ethyl acetate

Concen: 23.412 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Tgt Ion: 43 Resp: 220034

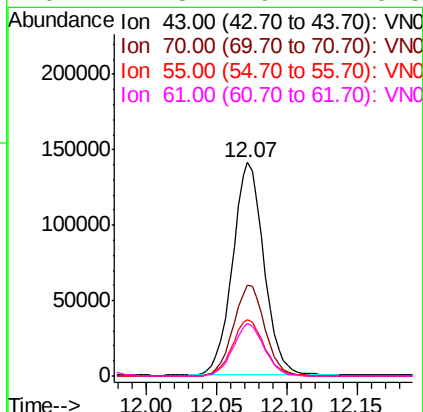
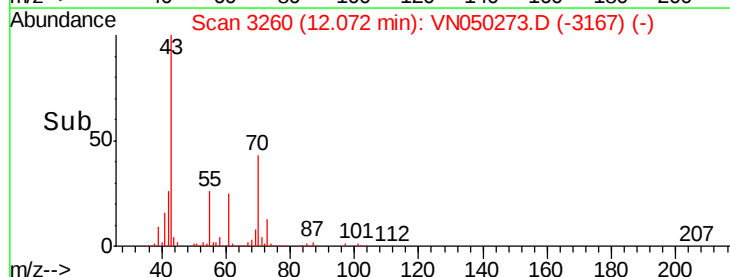
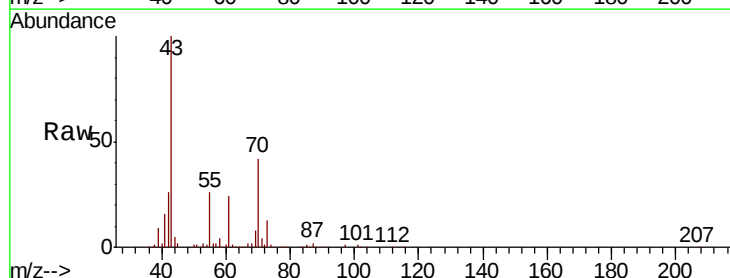
Ion Ratio Lower Upper

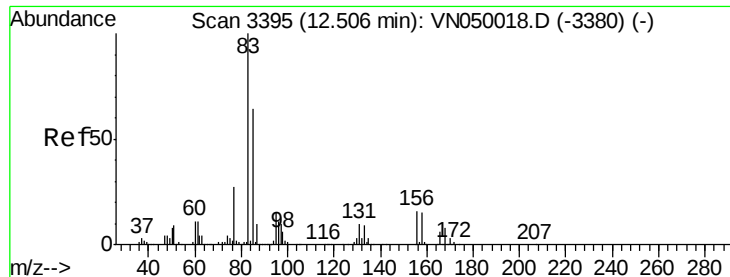
43 100

70 43.1 34.4 51.6

55 27.1 20.8 31.2

61 24.3 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 25.959 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampled :

VN0802MBSD01

Tot Ion: 83 Resp: 220188

Ion Ratio Lower Upper

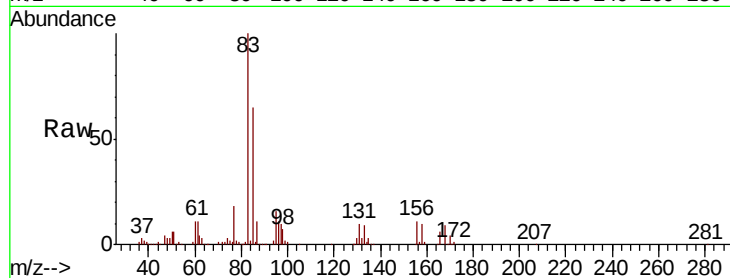
83 100

131 10.3 5.1 15.3

85 64.5 32.3 96.8

Manual Integrations  
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Abundance Ion 82.90 (82.60 to 83.60): VN050018.D (-3380) (-)

Ion 130.80 (130.50 to 131.50): VN050018.D (-3380) (-)

Ion 84.90 (84.60 to 85.60): VN050018.D (-3380) (-)

150000

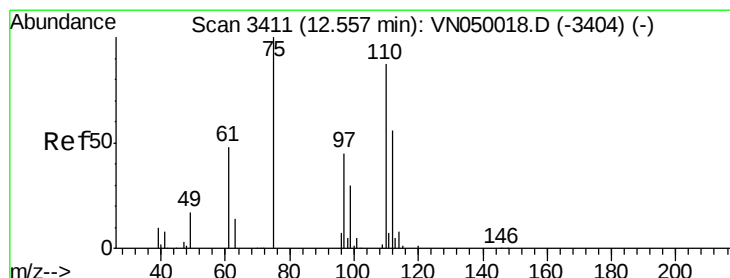
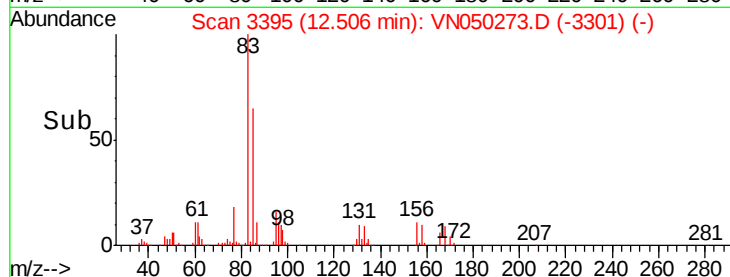
100000

50000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.471 ug/l m

RT: 12.56 min Scan# 3411

Delta R.T. -0.00 min

Lab File: VN050273.D

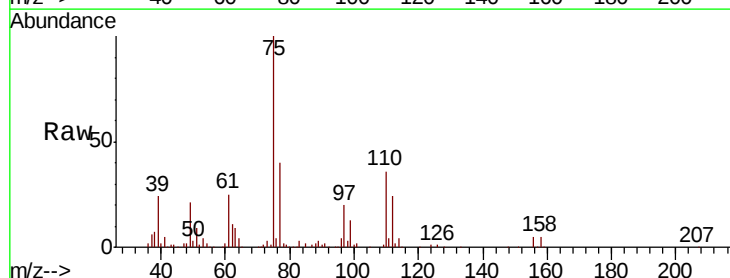
Acq: 2 Aug 2018 19:04

Tgt Ion: 75 Resp: 172949

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3404) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3404) (-)

150000

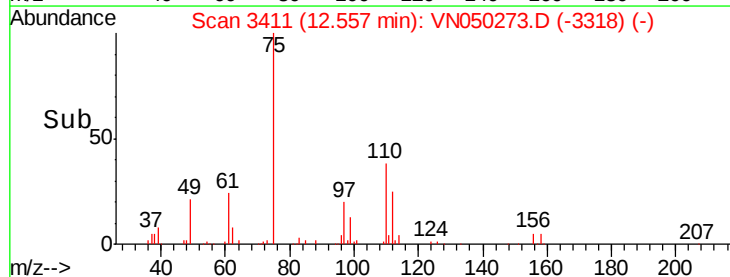
100000

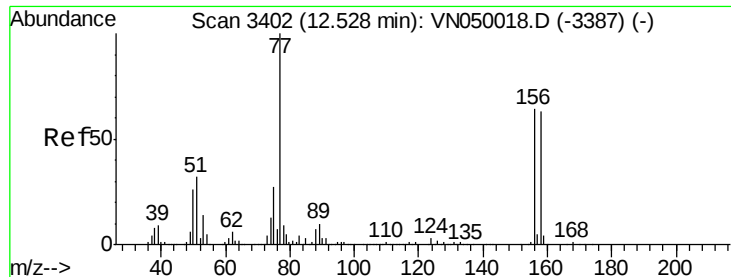
50000

0

12.55 12.60

Time-->





#77

Bromobenzene

Concen: 21.133 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

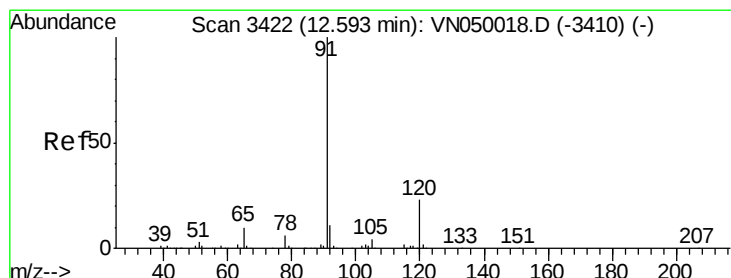
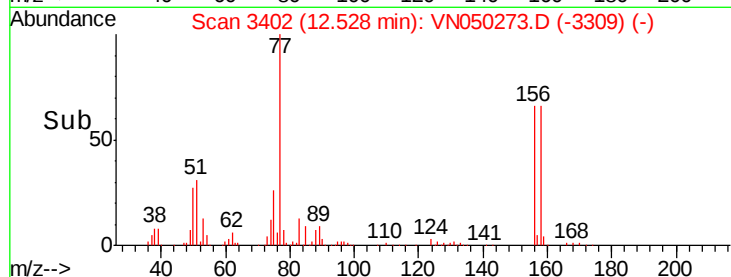
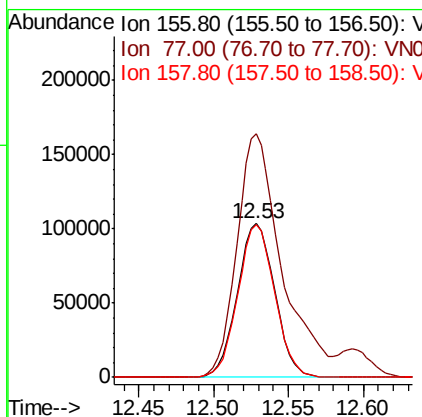
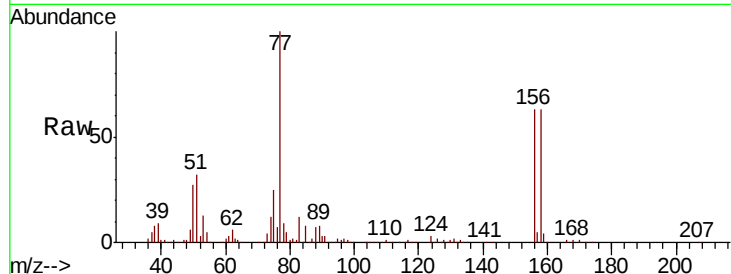
ClientSampleId :

VN0802MBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 180108 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 190.3 | 91.7  | 275.1  |
| 158       | 98.0  | 48.9  | 146.6  |

Manual Integrations  
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#78

n-propylbenzene

Concen: 22.142 ug/l

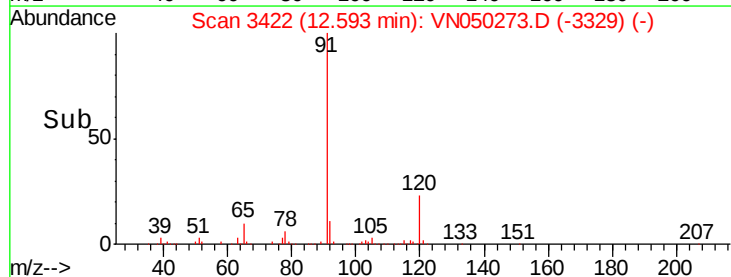
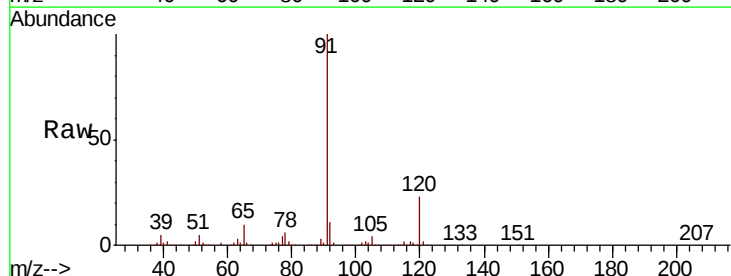
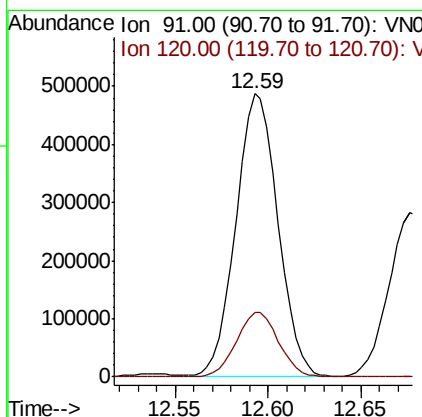
RT: 12.59 min Scan# 3422

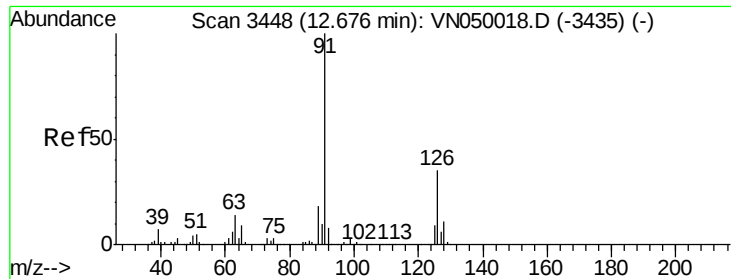
Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 761040 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 120       | 23.0  | 11.6  | 34.7   |





#79

2-Chlorotoluene

Concen: 22.169 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampled :

VN0802MBSD01

Tot Ion: 91 Resp: 472268

Ion Ratio Lower Upper

91 100

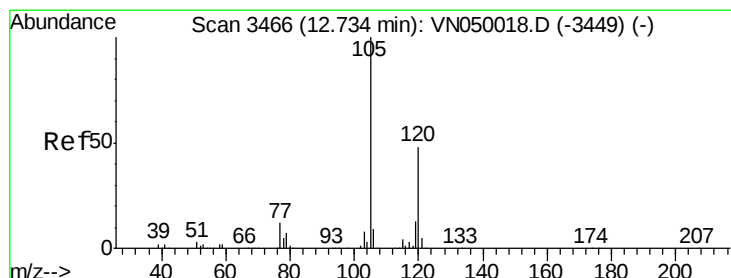
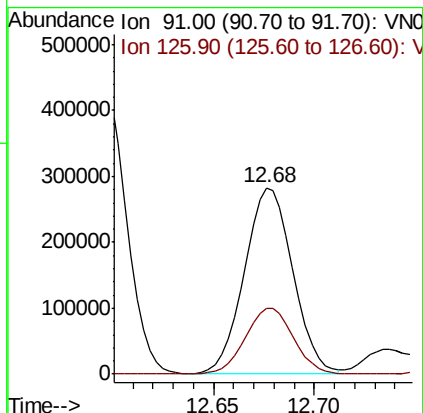
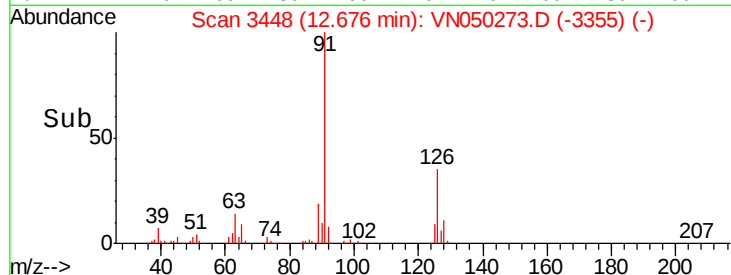
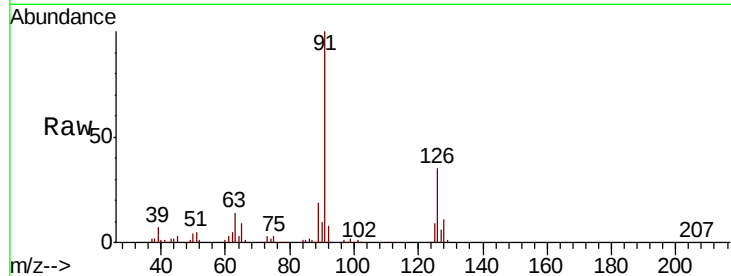
126 35.4 17.6 52.8

Manual Integrations

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8/3/2018 9:36:36 AM



#80

1,3,5-Trimethylbenzene

Concen: 23.011 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050273.D

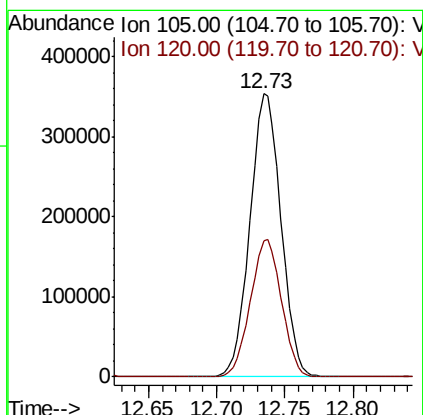
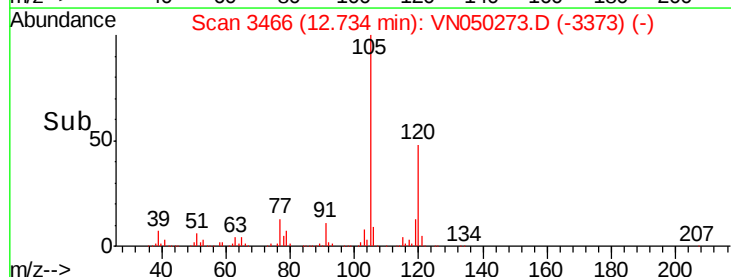
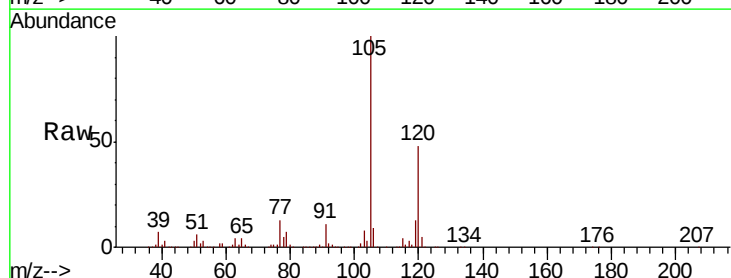
Acq: 2 Aug 2018 19:04

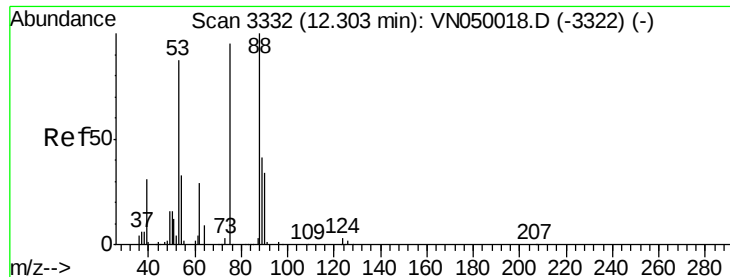
Tgt Ion: 105 Resp: 556597

Ion Ratio Lower Upper

105 100

120 48.6 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 22.525 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

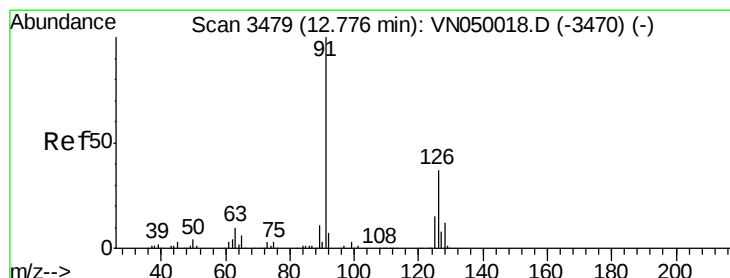
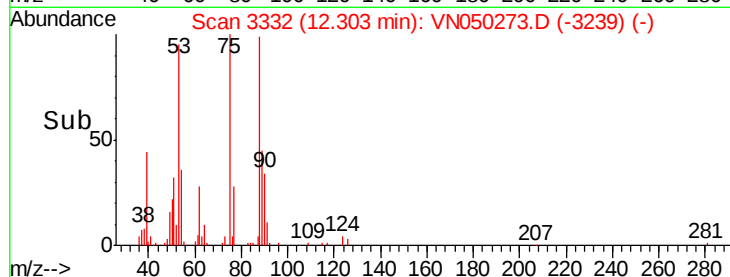
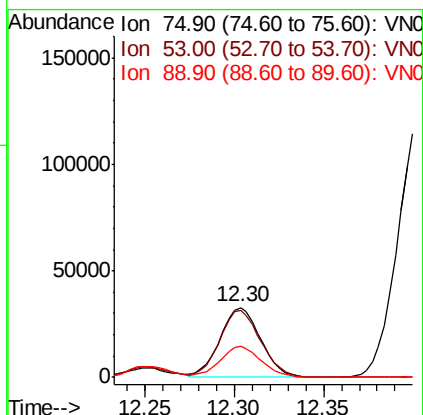
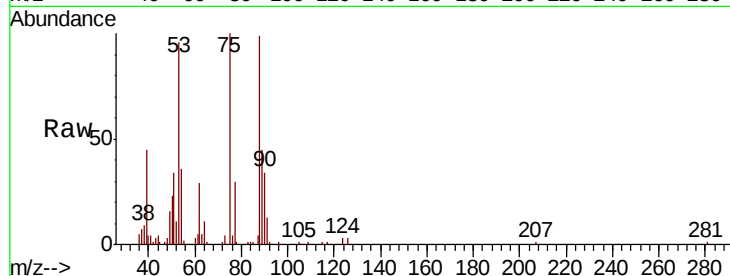
ClientSampleId :

VN0802MBSD01

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 52328 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 96.3  | 73.5  | 110.3 |
| 89       | 44.8  | 36.0  | 54.0  |

Manual Integrations  
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8/3/2018 9:36:36 AM



#82

4-Chlorotoluene

Concen: 22.153 ug/l

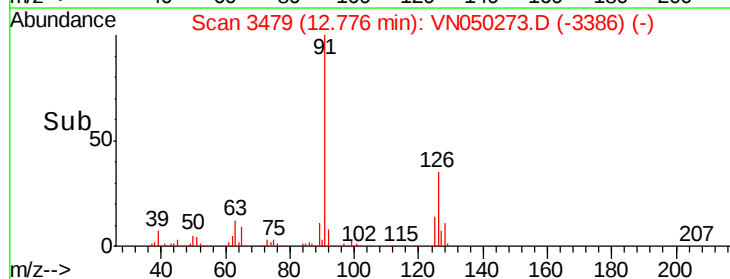
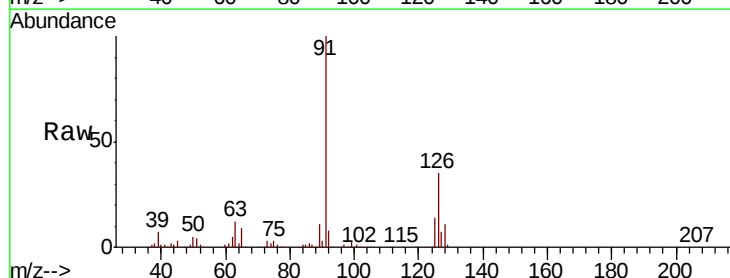
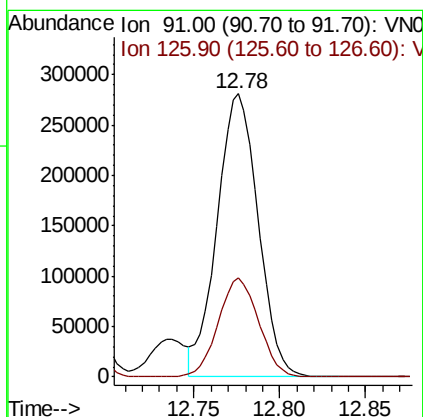
RT: 12.78 min Scan# 3479

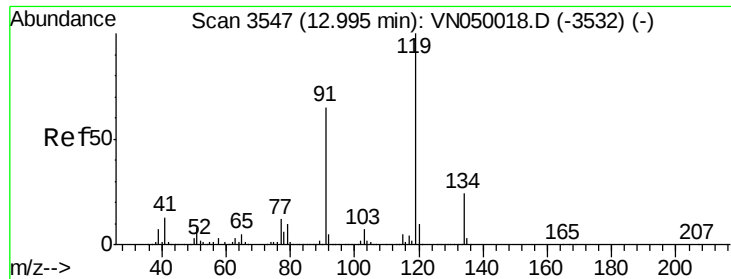
Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 467347 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 126      | 34.4  | 17.0  | 51.0   |





#83

tert-Butylbenzene

Concen: 22.346 ug/l

RT: 13.00 min Scan# 3548

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

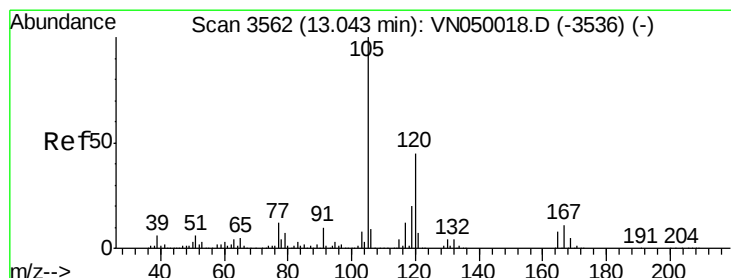
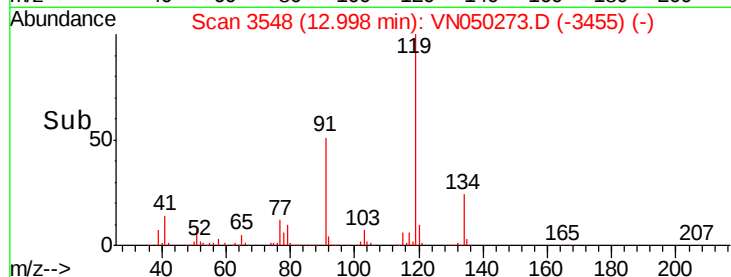
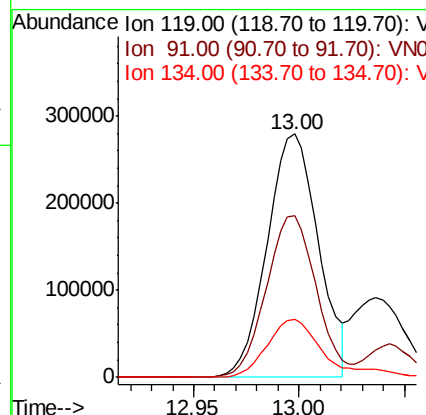
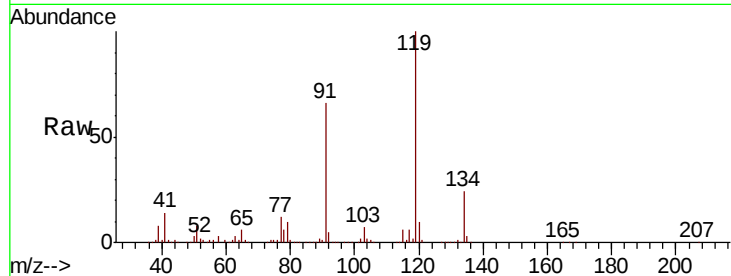
ClientSampleId :

VN0802MBSD01

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 119  | Resp: | 471695 |
| Ion Ratio |      | Lower | Upper  |
| 119       | 100  |       |        |
| 91        | 64.7 | 32.1  | 96.3   |
| 134       | 26.8 | 13.2  | 39.5   |

Manual Integrations  
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8/3/2018 9:36:36 AM



#84

1,2,4-Trimethylbenzene

Concen: 23.408 ug/l

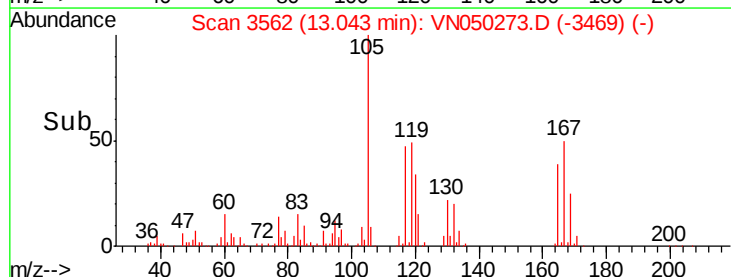
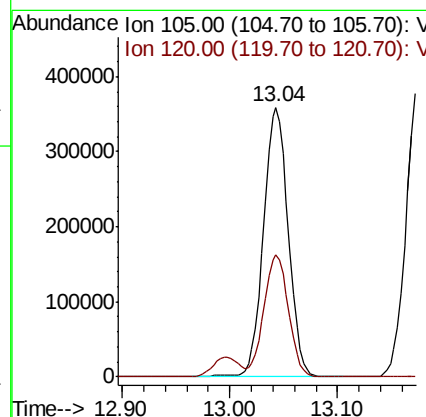
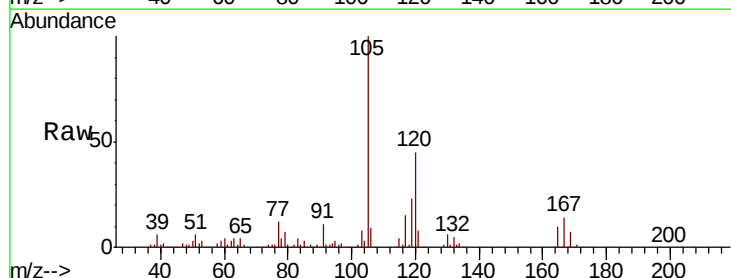
RT: 13.04 min Scan# 3562

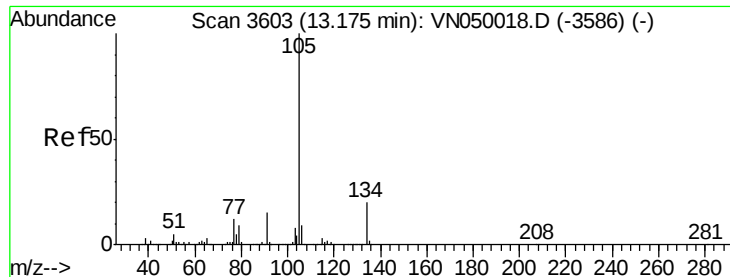
Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 105  | Resp: | 570687 |
| Ion Ratio |      | Lower | Upper  |
| 105       | 100  |       |        |
| 120       | 45.3 | 22.9  | 68.7   |





#85

sec-Butylbenzene

Concen: 22.399 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

Instrument :

MSVOA\_N

ClientSampleId :

VN0802MBSD01

Tot Ion:105 Resp: 631759

Ion Ratio Lower Upper

105 100

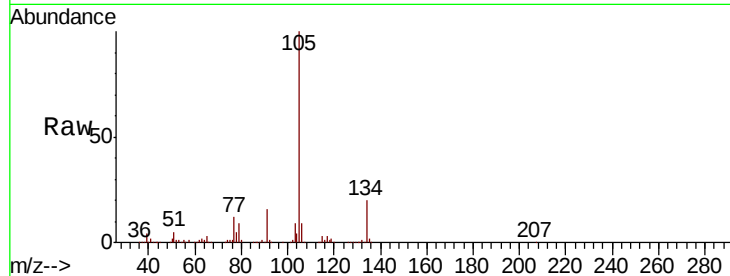
134 20.1 10.1 30.1

Manual Integrations

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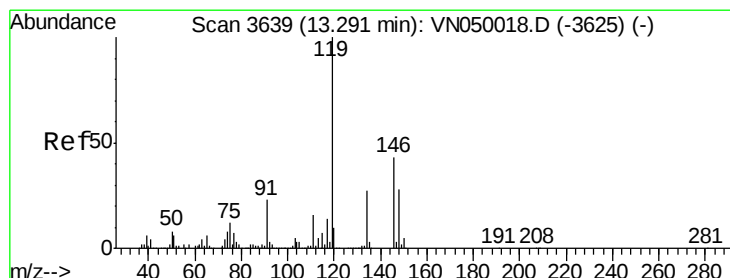
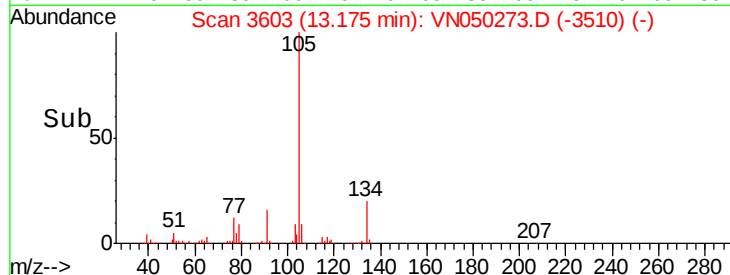
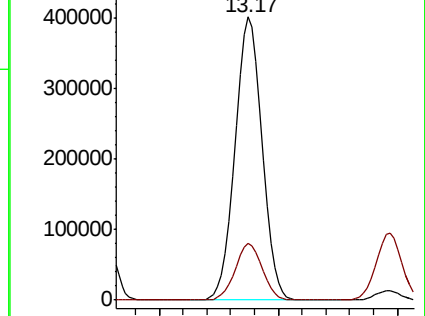
MMDadoda

8/3/2018 9:36:36 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.447 ug/l

RT: 13.29 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VN050273.D

Acq: 2 Aug 2018 19:04

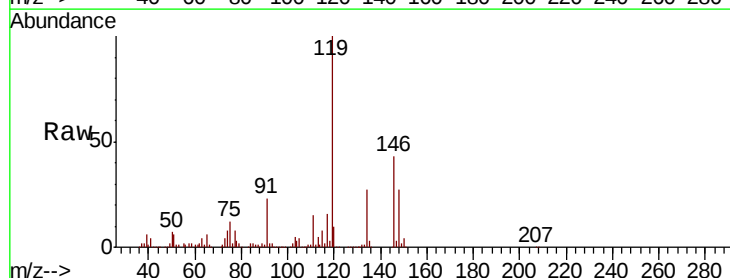
Tgt Ion:119 Resp: 533474

Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.8

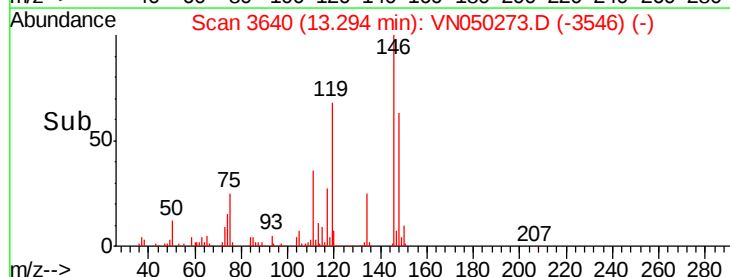
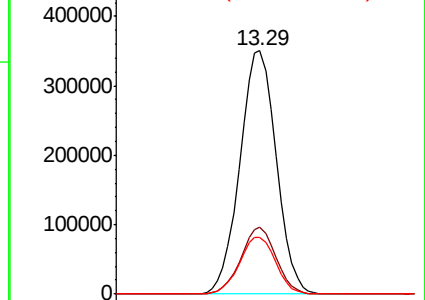
91 23.3 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





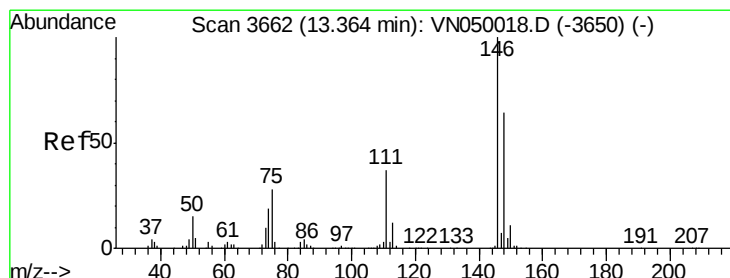
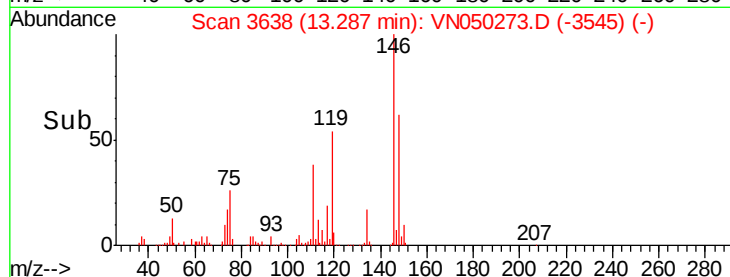
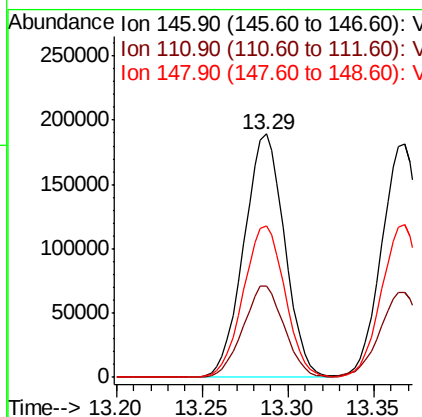
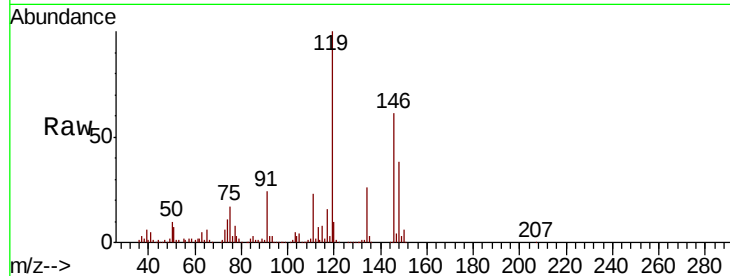
#87  
 1,3-Dichlorobenzene  
 Concen: 21.504 ug/l  
 RT: 13.29 min Scan# 3638  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0802MBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 310687 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 38.0  | 18.8  | 56.4   |
| 148       | 63.6  | 31.9  | 95.9   |

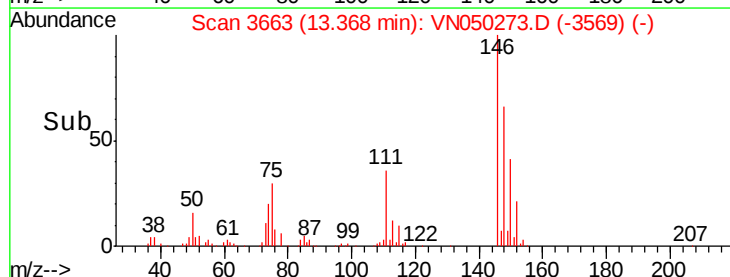
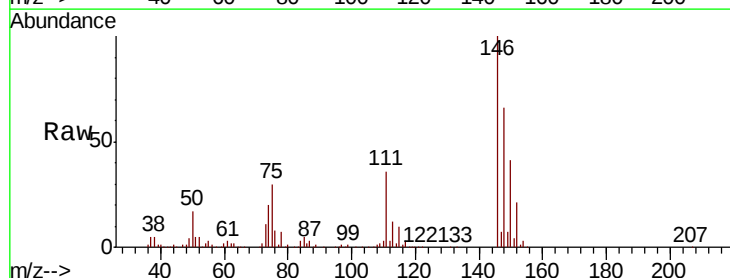
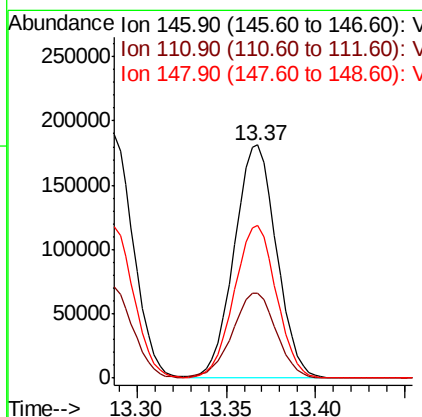
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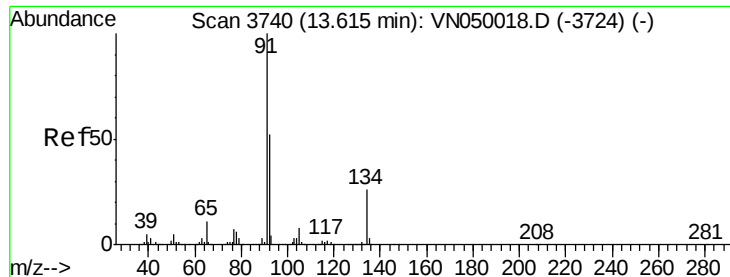
MMDadoda  
 8/3/2018 9:36:36 AM



#88  
 1,4-Dichlorobenzene  
 Concen: 21.343 ug/l  
 RT: 13.37 min Scan# 3663  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 300554 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 37.8  | 18.3  | 54.9   |
| 148       | 65.4  | 31.9  | 95.9   |





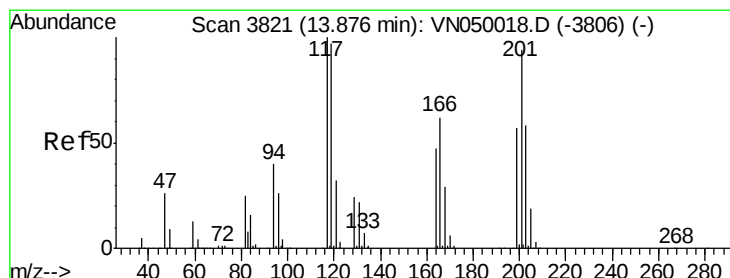
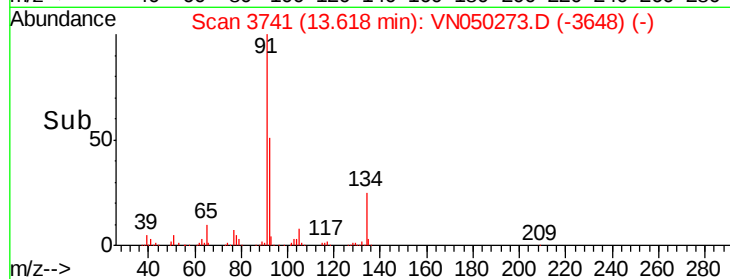
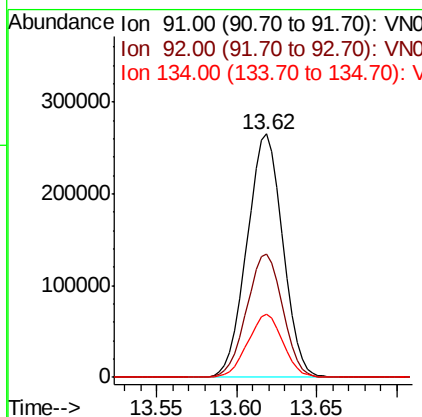
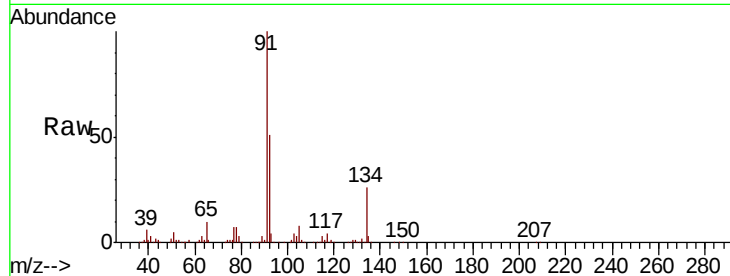
#89  
n-Butylbenzene  
Concen: 20.882 ug/l  
RT: 13.62 min Scan# 3741  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0802MBSD01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 50.8  | 25.8  | 77.4  |
| 134     | 25.5  | 12.8  | 38.4  |

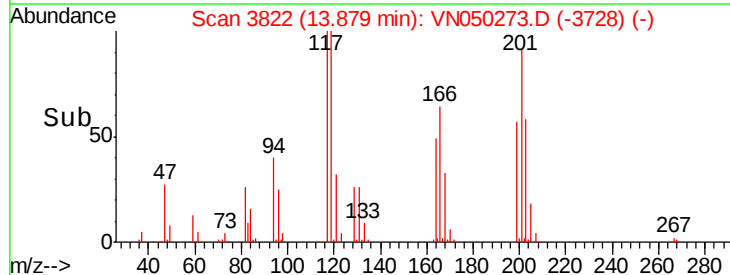
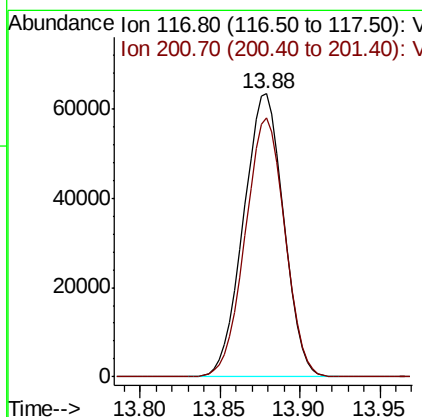
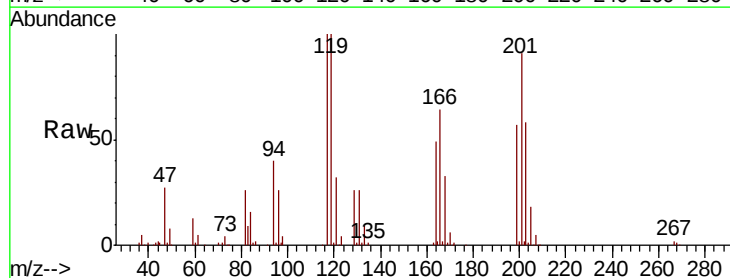
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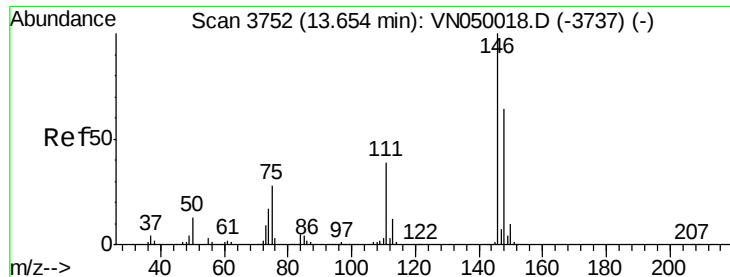
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8/3/2018 9:36:36 AM



#90  
Hexachloroethane  
Concen: 20.648 ug/l  
RT: 13.88 min Scan# 3822  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 90.3  | 45.6  | 136.8 |





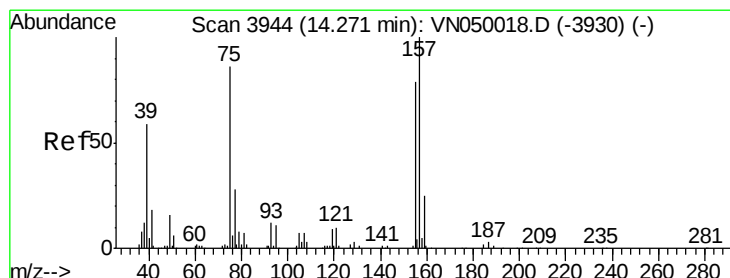
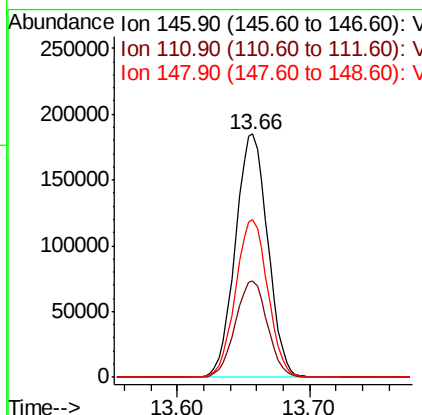
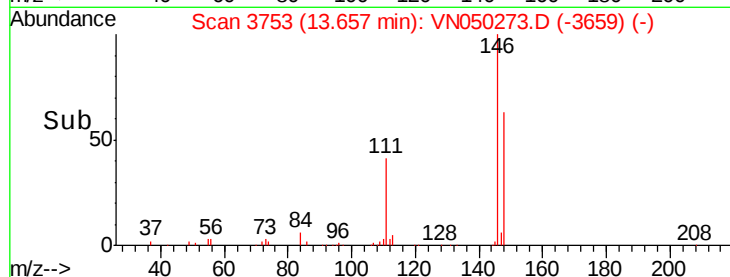
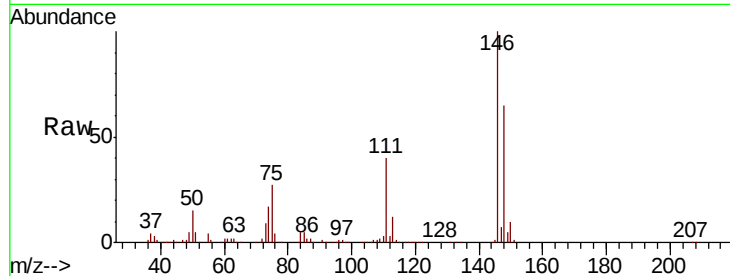
#91  
 1,2-Dichlorobenzene  
 Concen: 21.684 ug/l  
 RT: 13.66 min Scan# 3753  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0802MBSD01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 313173 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 39.3  | 19.6  | 58.7   |
| 148       | 64.6  | 32.1  | 96.3   |

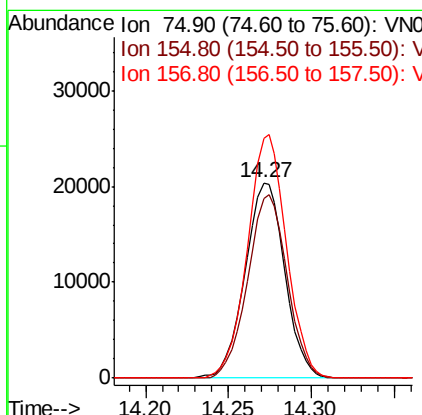
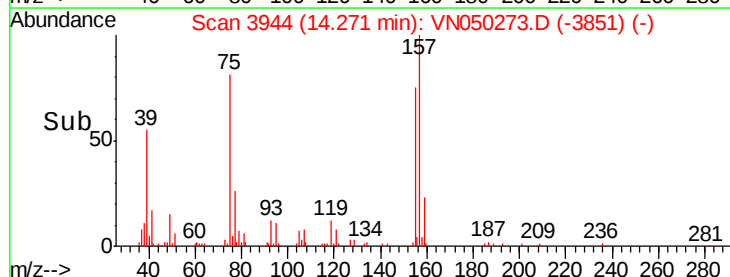
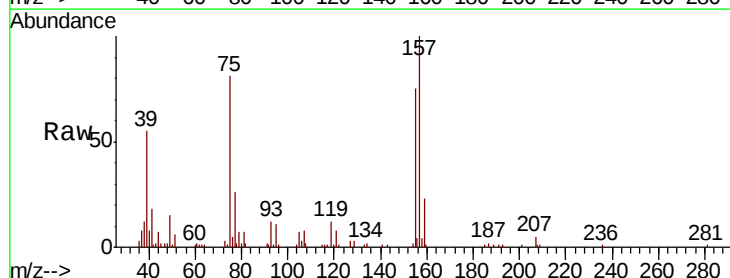
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 24.440 ug/l  
 RT: 14.27 min Scan# 3944  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 34054 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 93.0  | 44.8  | 134.4 |
| 157       | 122.1 | 57.2  | 171.6 |





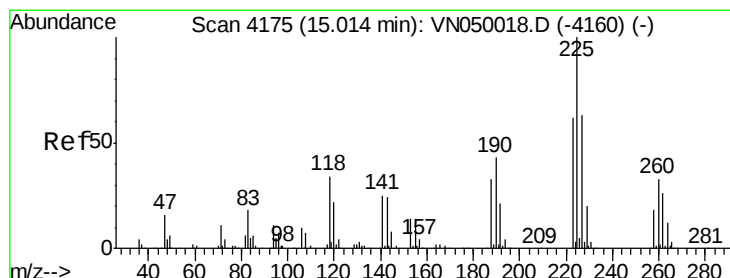
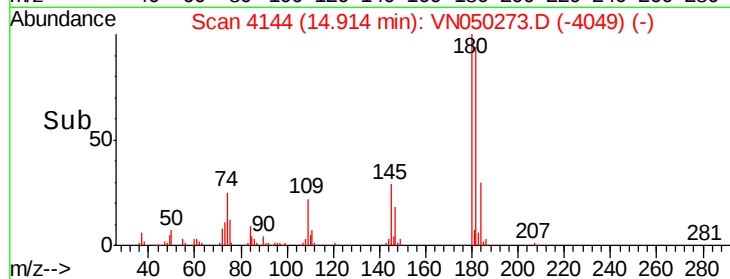
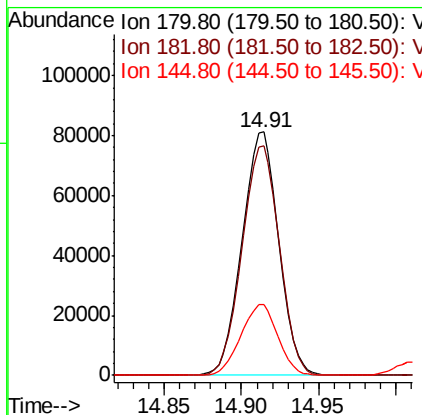
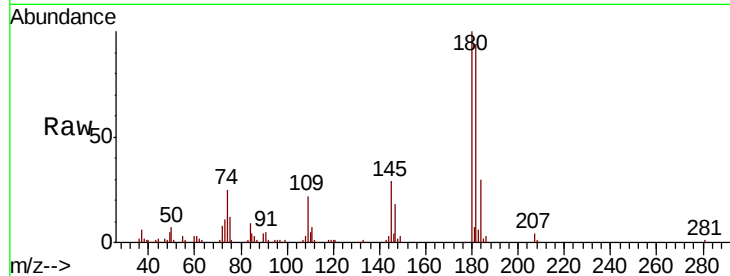
#93  
 1,2,4-Trichlorobenzene  
 Concen: 19.476 ug/l  
 RT: 14.91 min Scan# 4144  
 Delta R.T. 0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VN0802MBSD01

Manual Integrations  
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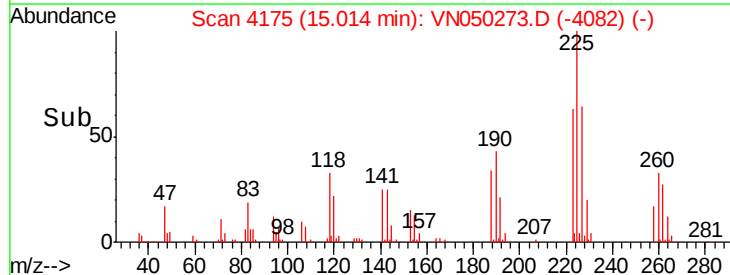
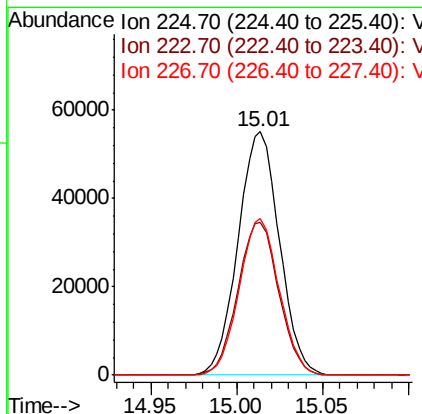
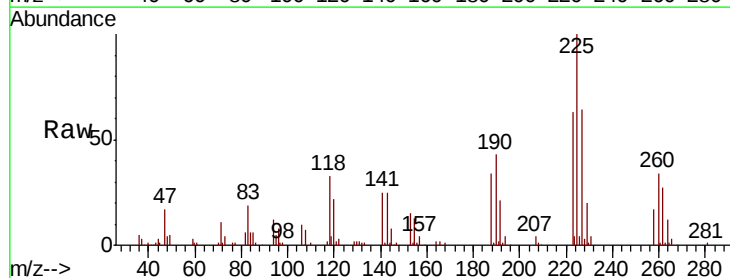
MMDadoda  
 8/3/2018 9:36:36 AM

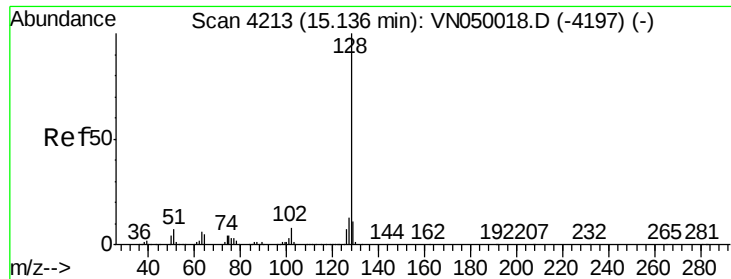
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 133797 |       |       |
| 182     | 96.2  | 46.7   | 140.1 |       |
| 145     | 29.3  | 13.8   | 41.4  |       |



#94  
 Hexachlorobutadiene  
 Concen: 20.801 ug/l  
 RT: 15.01 min Scan# 4175  
 Delta R.T. -0.00 min  
 Lab File: VN050273.D  
 Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 225     | 100   | 91971 |       |       |
| 223     | 62.1  | 31.4  | 94.2  |       |
| 227     | 62.2  | 32.1  | 96.5  |       |





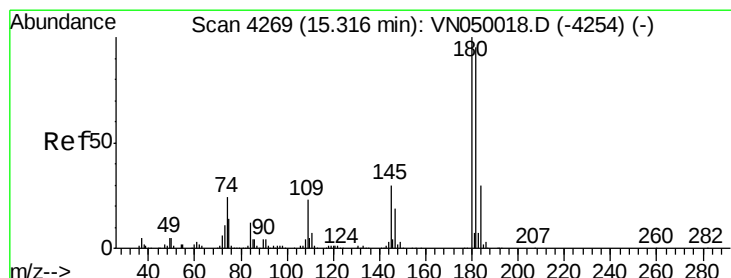
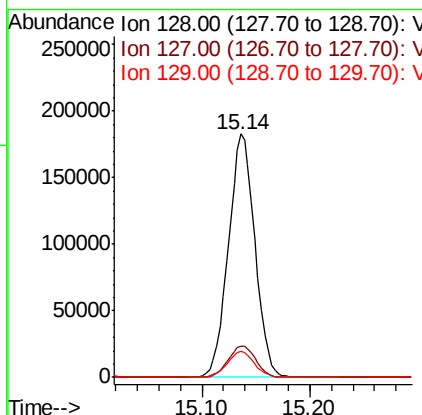
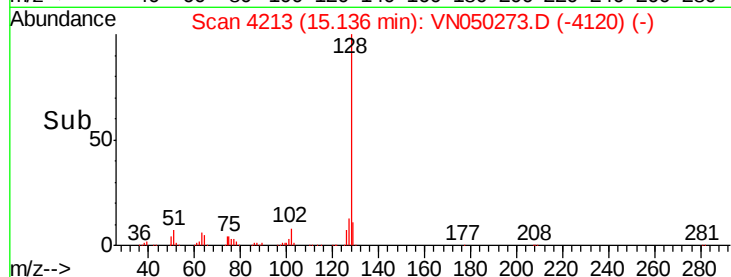
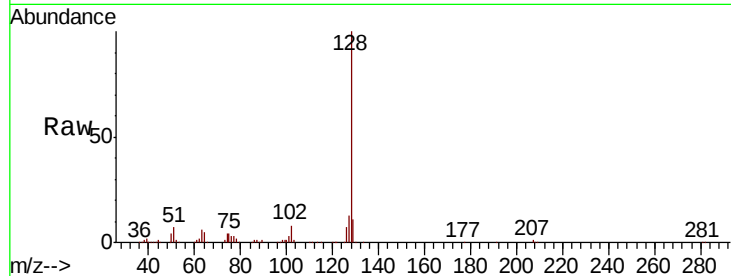
#95  
Naphthalene  
Concen: 20.159 ug/l  
RT: 15.14 min Scan# 4213  
Delta R.T. 0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0802MBSD01

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 312698 |       |       |
| 127     | 13.3  | 10.4   | 15.6  |       |
| 129     | 10.8  | 8.8    | 13.2  |       |

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8/3/2018 9:36:36 AM



#96  
1,2,3-Trichlorobenzene  
Concen: 20.600 ug/l  
RT: 15.32 min Scan# 4269  
Delta R.T. -0.00 min  
Lab File: VN050273.D  
Acq: 2 Aug 2018 19:04

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 143562 |       |       |
| 182     | 97.8  | 48.1   | 144.4 |       |
| 145     | 31.1  | 15.3   | 45.9  |       |

