

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\  
 Data File : VN052781.D  
 Acq On : 11 Dec 2018 4:58  
 Operator : MD\SY  
 Sample : VN1210WBSD03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 45 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2018 12:47:05 PM

Quant Time: Dec 11 06:20:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 03 03:24:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 952106   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1505889  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1323449  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 618501   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 527890   | 50.92 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.84% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 418186   | 45.04 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.08%  |      |
| 50) Toluene-d8            | 10.09  | 98  | 1788559  | 49.49 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.98%  |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 618745   | 50.95 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 101.90% |      |

## Target Compounds

|                               |      |     |         |         |        | Qvalue |
|-------------------------------|------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 133490  | 14.974  | ug/l   | 97     |
| 3) Chloromethane              | 2.06 | 50  | 186826  | 15.876  | ug/l   | 100    |
| 4) Vinyl Chloride             | 2.19 | 62  | 196631  | 16.266  | ug/l   | 99     |
| 5) Bromomethane               | 2.58 | 94  | 111871  | 14.832  | ug/l   | 99     |
| 6) Chloroethane               | 2.71 | 64  | 124452  | 16.996  | ug/l   | 98     |
| 7) Trichlorofluoromethane     | 3.03 | 101 | 266127  | 17.922  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 103747  | 18.920  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.77 | 101 | 161719  | 17.454  | ug/l   | 98     |
| 10) Methyl Iodide             | 3.96 | 142 | 201352  | 16.316  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 4.78 | 59  | 56168   | 108.226 | ug/l # | 92     |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 157602  | 17.671  | ug/l   | 97     |
| 13) Acrolein                  | 3.61 | 56  | 30053   | 33.318  | ug/l   | 97     |
| 14) Allyl chloride            | 4.33 | 41  | 262141  | 17.054  | ug/l   | 98     |
| 15) Acrylonitrile             | 4.99 | 53  | 320143  | 97.449  | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43  | 210106  | 76.840  | ug/l   | 98     |
| 17) Carbon Disulfide          | 4.06 | 76  | 403586  | 14.379  | ug/l   | 99     |
| 18) Methyl Acetate            | 4.33 | 43  | 168931  | 21.538  | ug/l   | 100    |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 475924  | 20.056  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.56 | 84  | 195569  | 18.277  | ug/l   | 98     |
| 21) trans-1,2-Dichloroethene  | 5.05 | 96  | 171969  | 18.054  | ug/l   | 96     |
| 22) Diisopropyl ether         | 5.95 | 45  | 613315  | 18.995  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.90 | 43  | 1762181 | 87.623  | ug/l   | 98     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 345561  | 18.744  | ug/l   | 98     |
| 25) 2-Butanone                | 6.83 | 43  | 355909  | 91.833  | ug/l   | 98     |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 181497  | 14.223  | ug/l   | 96     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 205653  | 18.534  | ug/l   | 98     |
| 28) Bromochloromethane        | 7.20 | 49  | 162191  | 19.262  | ug/l   | 95     |
| 29) Tetrahydrofuran           | 7.21 | 42  | 238610  | 95.453  | ug/l   | 98     |
| 30) Chloroform                | 7.37 | 83  | 344963  | 18.755  | ug/l   | 99     |
| 31) Cyclohexane               | 7.66 | 56  | 297554  | 16.430  | ug/l   | 93     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 279728  | 19.195  | ug/l   | 99     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 250730  | 17.632  | ug/l   | 98     |
| 37) Ethyl Acetate             | 6.93 | 43  | 162204  | 18.690  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 241690  | 18.774  | ug/l   | 98     |

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 ALS Vial : 45 Sample Multiplier: 28

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 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

Manual Integrations  
 APPROVED

MMDadoda  
 12/11/2018 12:47:05 PM

Quant Time: Dec 11 06:20:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N112718W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 03 03:24:02 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 278281   | 16.100  | ug/l   | 99       |
| 40) Benzene                    | 8.04  | 78   | 779534   | 18.394  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.17  | 41   | 83170    | 17.529  | ug/l # | 89       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 243587   | 18.983  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 346853   | 23.616  | ug/l   | 92       |
| 44) Trichloroethene            | 8.84  | 130  | 208984   | 19.251  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 212747   | 18.882  | ug/l   | 98       |
| 46) Dibromomethane             | 9.21  | 93   | 119643   | 19.182  | ug/l   | 96       |
| 47) Bromodichloromethane       | 9.40  | 83   | 258595   | 19.069  | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.20  | 41   | 148701   | 19.417  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 33648    | 423.357 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 830157   | 100.742 | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 475940   | 18.902  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 239419   | 18.352  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 287337   | 18.379  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 178578   | 20.162  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 227258   | 20.176  | ug/l   | 98       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 303090   | 19.380  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 647634   | 100.769 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 548700   | 99.212  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 190016   | 19.753  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 170959   | 19.434  | ug/l   | 100      |
| 64) Tetrachloroethene          | 10.63 | 164  | 226779   | 22.101  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.43 | 112  | 527916   | 19.345  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 189253   | 19.945  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.51 | 91   | 908051   | 19.001  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 679889   | 38.216  | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 340700   | 19.721  | ug/l   | 99       |
| 70) Styrene                    | 11.96 | 104  | 548286   | 19.926  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 126202   | 20.087  | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 903743   | 18.624  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 253321   | 20.663  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 201921   | 18.292  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 189020m  | 19.818  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 229792   | 19.159  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.59 | 91   | 1008914  | 18.302  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 602404   | 18.350  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 727667   | 18.802  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 47177    | 16.519  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 614900   | 18.585  | ug/l   | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 651913   | 18.895  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 730317   | 18.830  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.17 | 105  | 865499   | 18.418  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 743942   | 18.587  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 399973   | 19.064  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 397519   | 19.236  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 604245   | 18.153  | ug/l   | 100      |
| 90) Hexachloroethane           | 13.88 | 117  | 119890   | 17.690  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 393945   | 19.654  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 31143    | 19.726  | ug/l   | 99       |

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Sample : VN1210WBSD03  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 45 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
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Quant Title : SW846 8260  
QLast Update : Mon Dec 03 03:24:02 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 200319   | 20.040 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 116356   | 18.044 | ug/l  | 99       |
| 95) Naphthalene            | 15.13 | 128  | 431544   | 20.690 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 188077   | 20.340 | ug/l  | 100      |

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

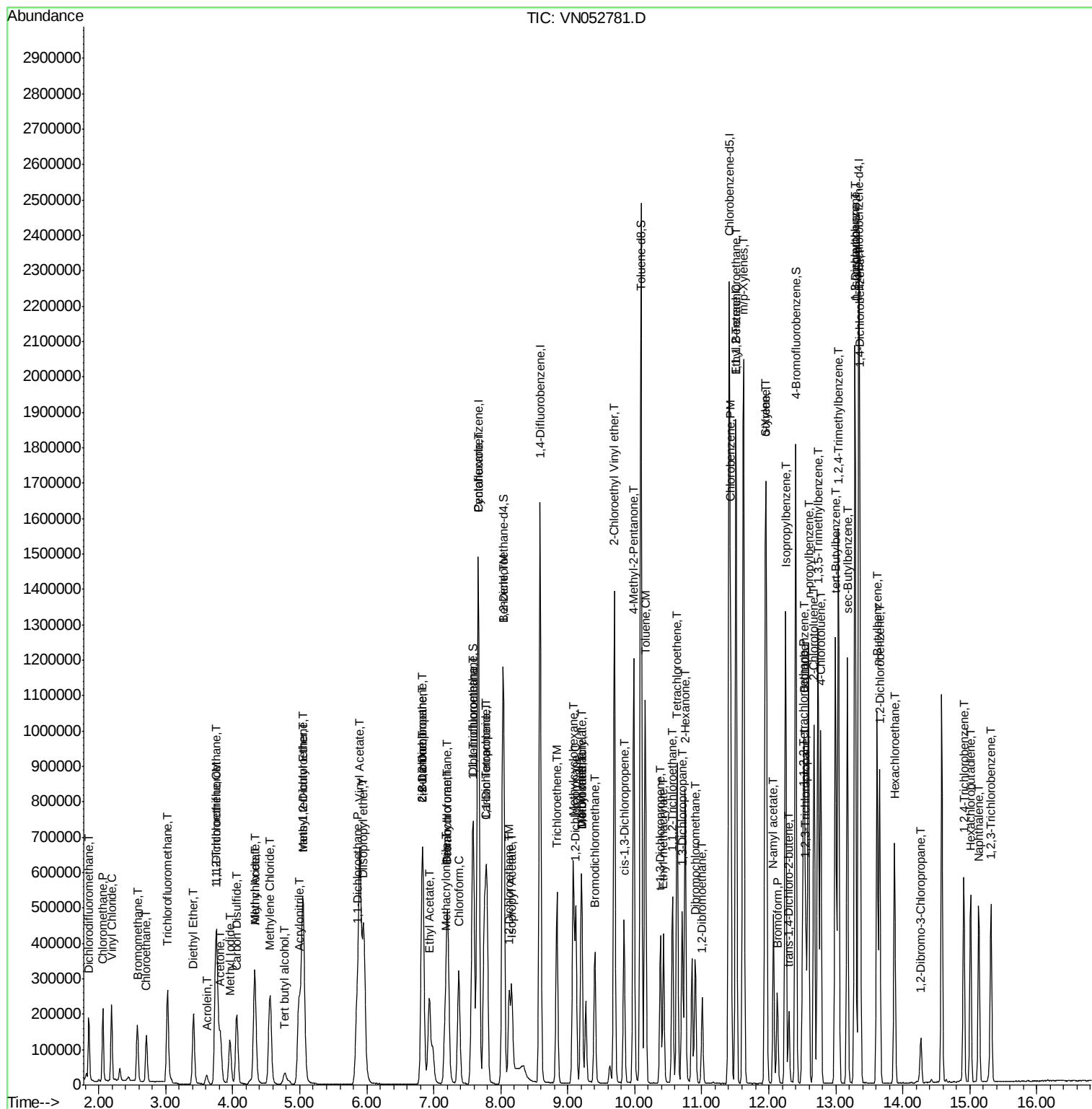
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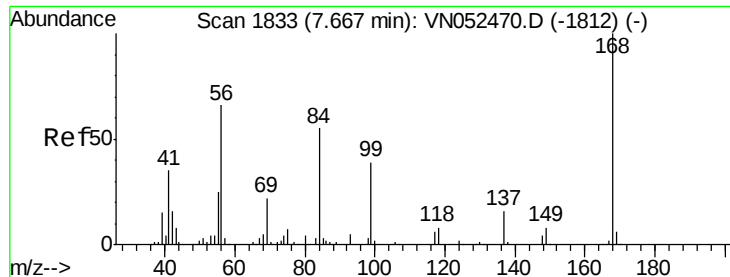
Instrument :  
MSVOA\_N  
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VN1210WBSD03

Manual Integrations  
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MMDadoda  
12/11/2018 12:47:05 PM

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Quant Title : SW846 8260  
QLast Update : Mon Dec 03 03:24:02 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Tot Ion: 168 Resp: 952106

Ion Ratio Lower Upper

168 100

99 49.7 41.7 62.5

Instrument :

MSVOA\_N

ClientSampleId :

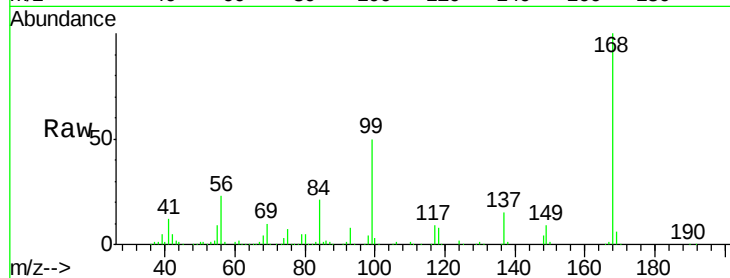
VN1210WBSD03

Manual Integrations

APPROVED

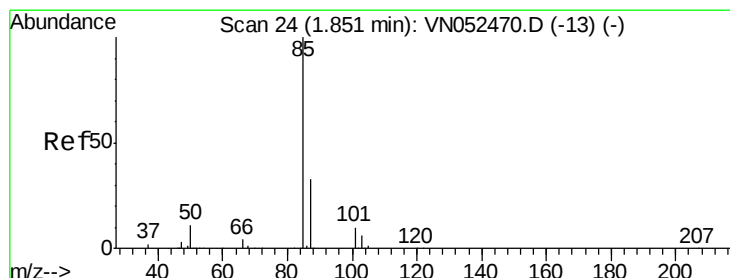
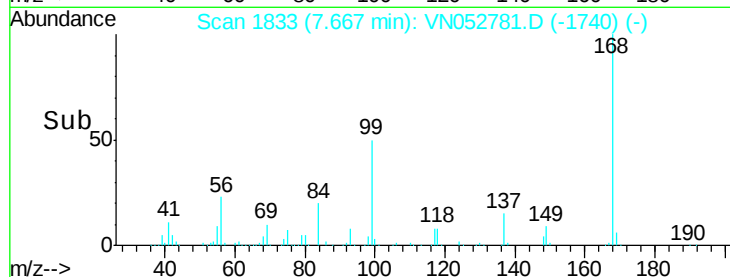
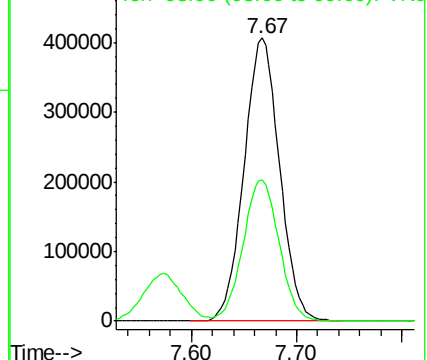
MMDadoda

12/11/2018 12:47:05 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 14.974 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN052781.D

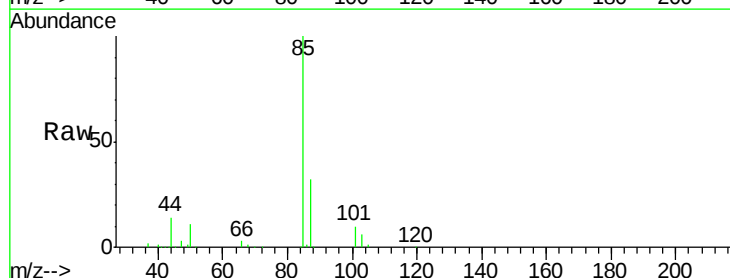
Acq: 11 Dec 2018 4:58

Tgt Ion: 85 Resp: 133490

Ion Ratio Lower Upper

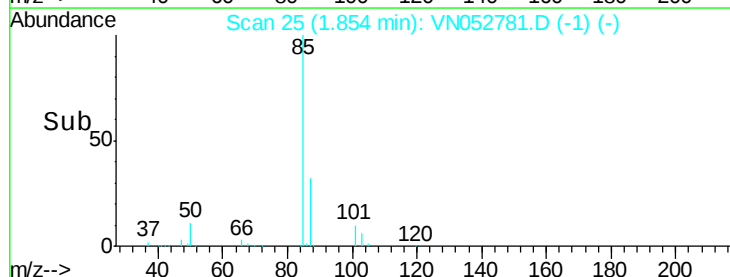
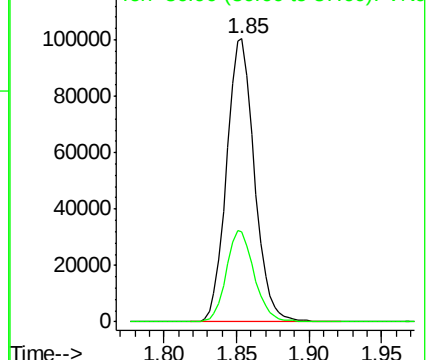
85 100

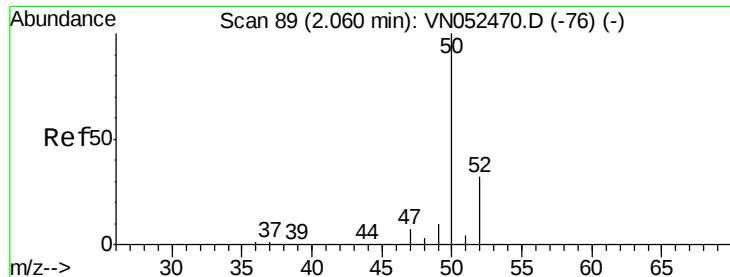
87 31.7 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 15.876 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 50 Resp: 186826

Ion Ratio Lower Upper

50 100

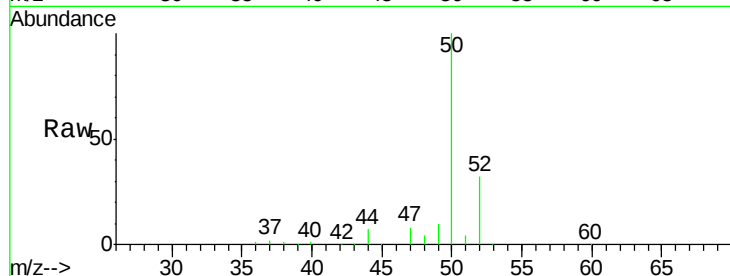
52 32.3 25.9 38.9

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

150000

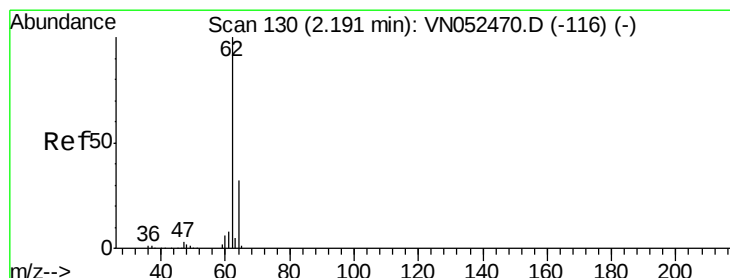
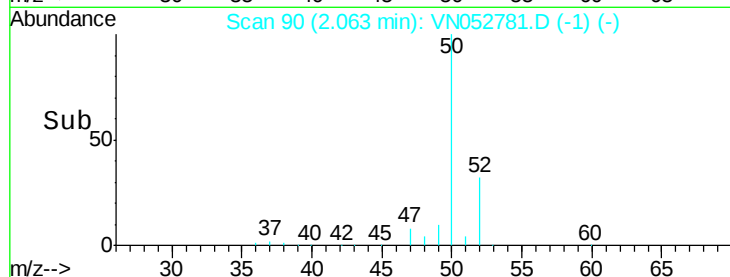
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50000

0

Time-->

2.00 2.05 2.10 2.15



#4

Vinyl Chloride

Concen: 16.266 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052781.D

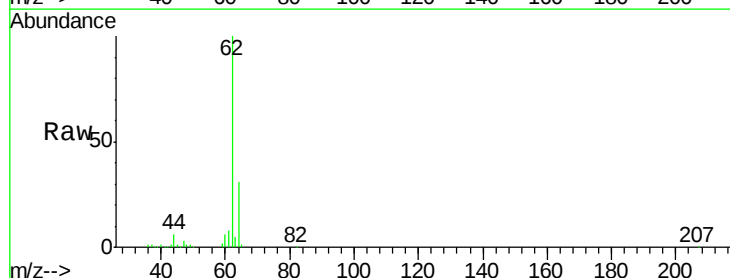
Acq: 11 Dec 2018 4:58

Tgt Ion: 62 Resp: 196631

Ion Ratio Lower Upper

62 100

64 31.2 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

150000

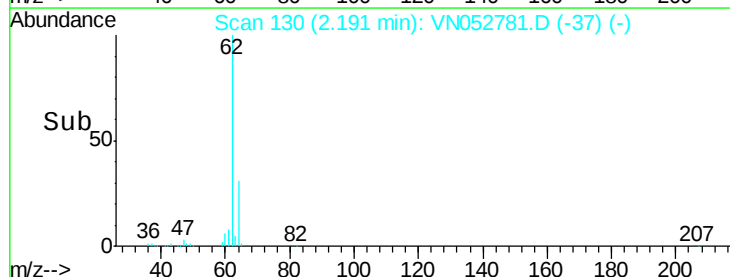
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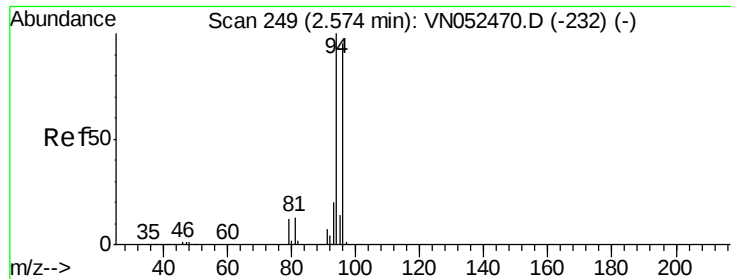
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Time-->

2.10 2.15 2.20 2.25





#5

Bromomethane

Concen: 14.832 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 94 Resp: 111871

Ion Ratio Lower Upper

94 100

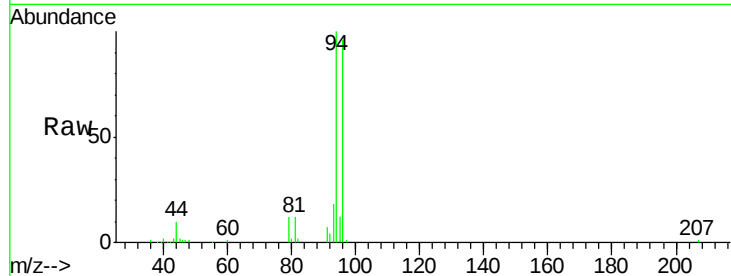
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Manual Integrations

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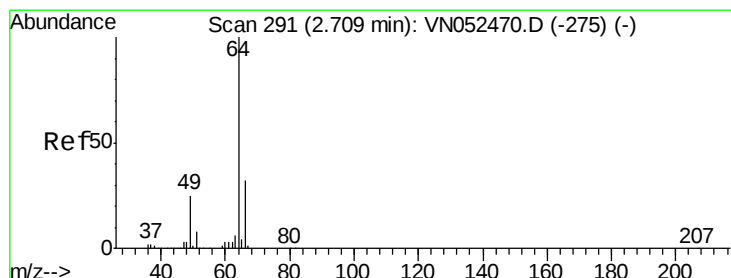
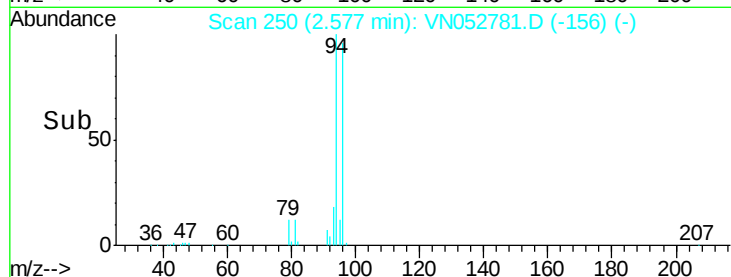
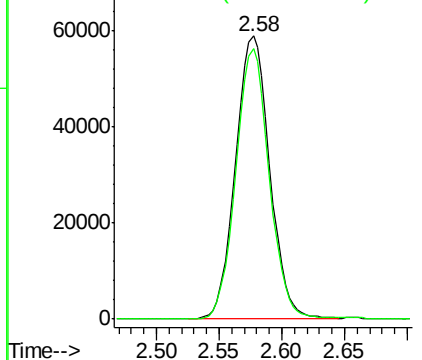
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 16.996 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052781.D

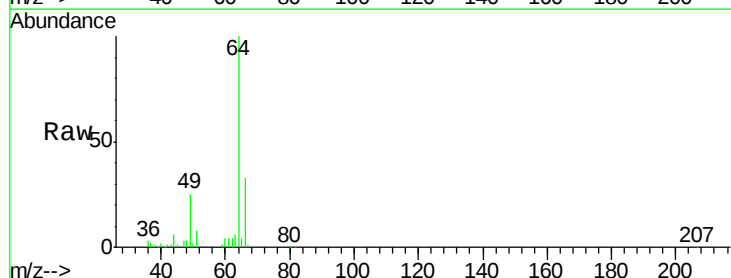
Acq: 11 Dec 2018 4:58

Tgt Ion: 64 Resp: 124452

Ion Ratio Lower Upper

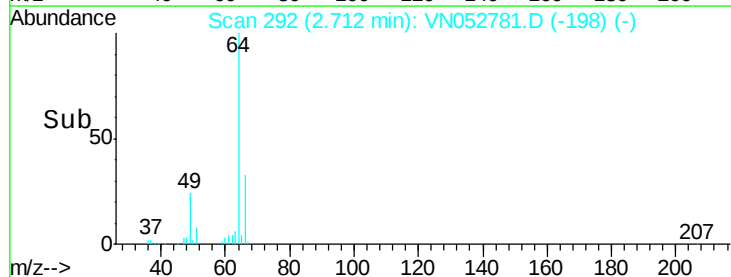
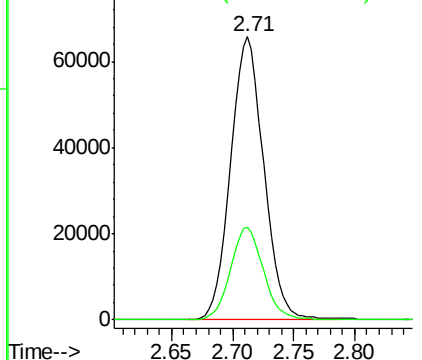
64 100

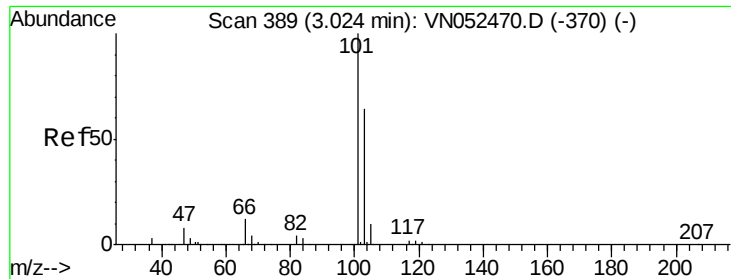
66 32.9 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

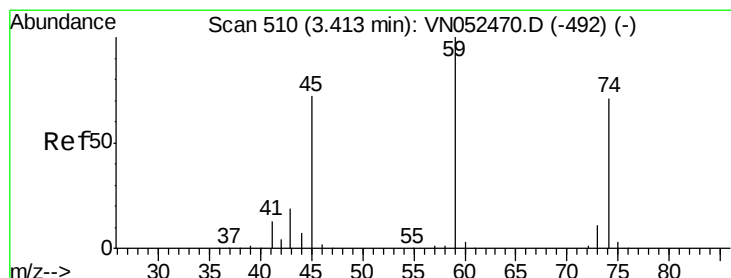
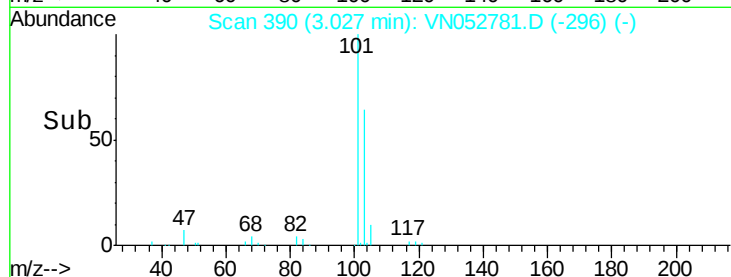
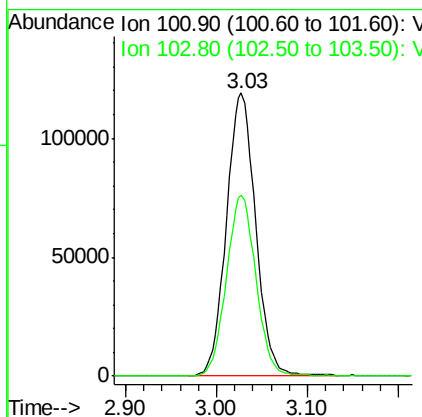
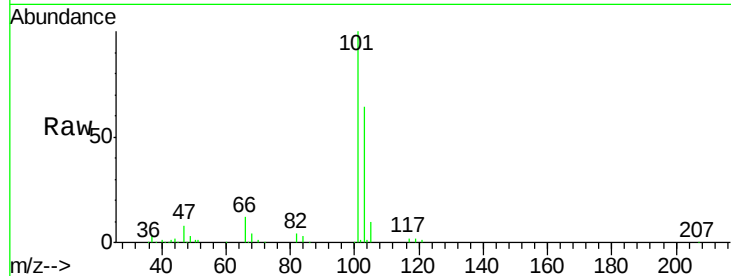
Trichlorofluoromethane  
Concen: 17.922 ug/l  
RT: 3.03 min Scan# 390  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 266127 |       |       |
| 103     | 63.9  | 51.4   | 77.2  |       |

Manual Integrations  
APPROVED

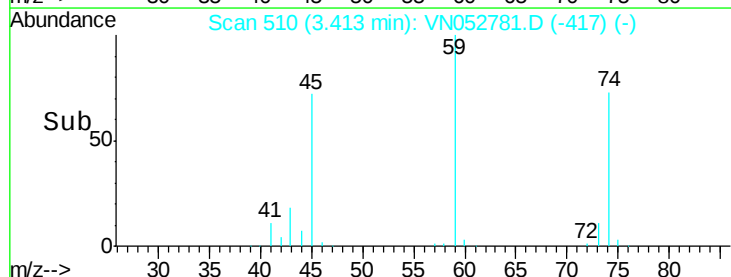
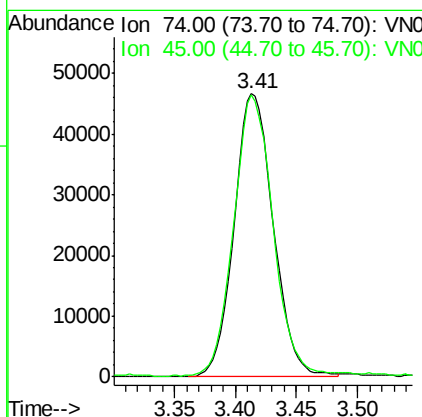
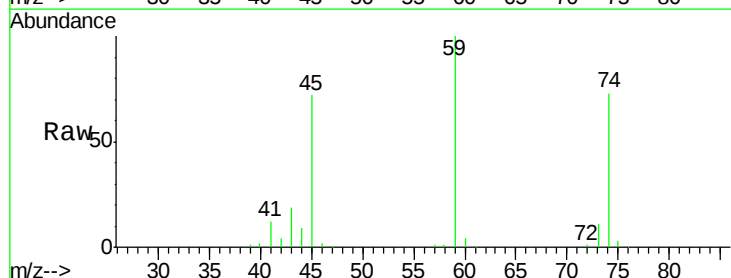
MMDadoda  
12/11/2018 12:47:05 PM



#8

Diethyl Ether  
Concen: 18.920 ug/l  
RT: 3.41 min Scan# 510  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 74      | 100   | 103747 |       |       |
| 45      | 99.1  | 50.4   | 151.3 |       |





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.454 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

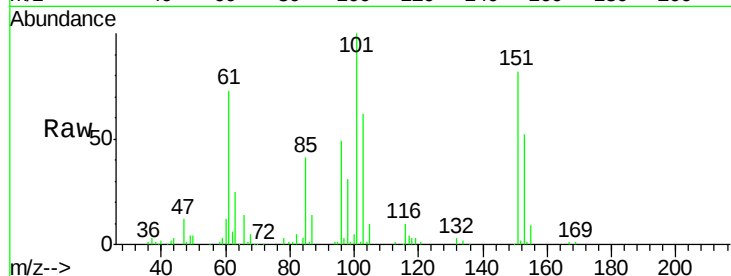
ClientSampleId :

VN1210WBSD03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 161719 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 42.4  | 34.2  | 51.4   |
| 151       | 82.7  | 64.6  | 96.8   |

Manual Integrations  
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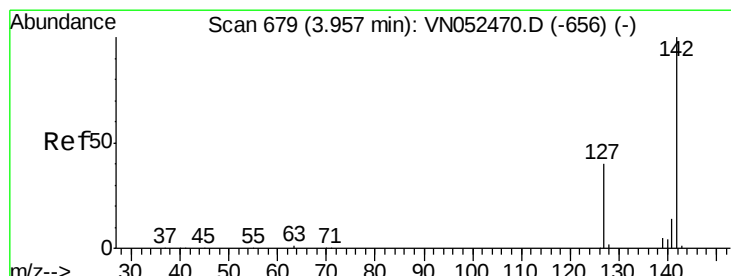
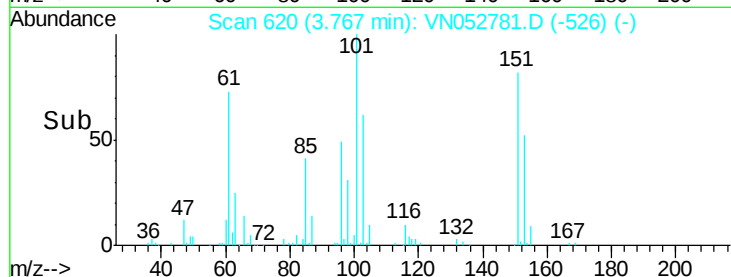
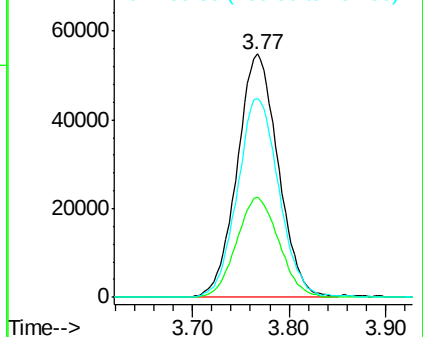
MMDadoda  
12/11/2018 12:47:05 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.316 ug/l

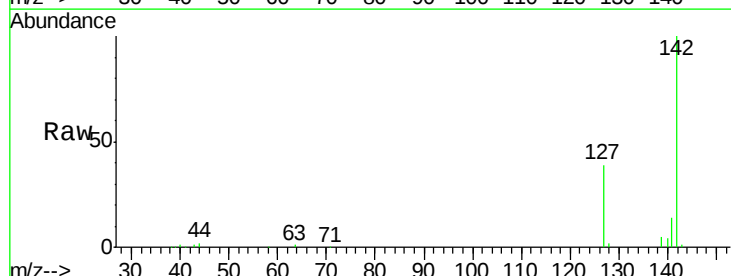
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

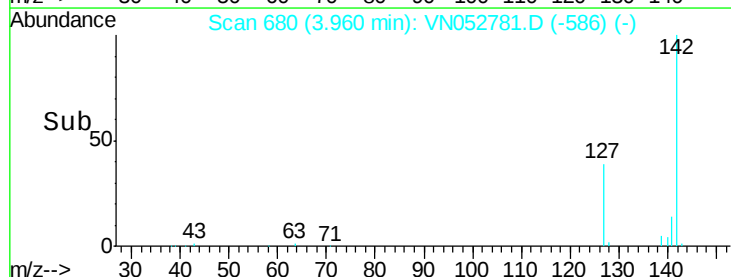
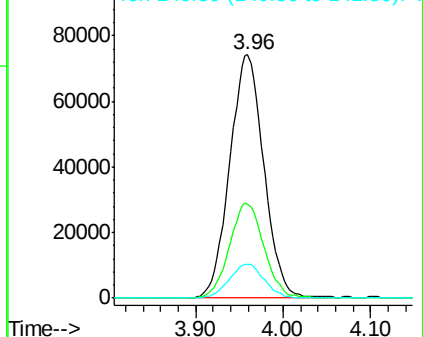
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 201352 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 39.4  | 31.8  | 47.6   |
| 141       | 14.1  | 11.4  | 17.0   |

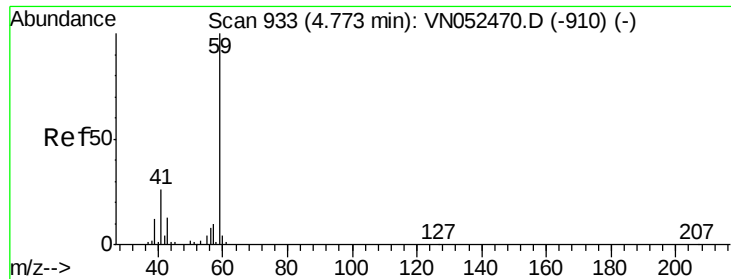


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





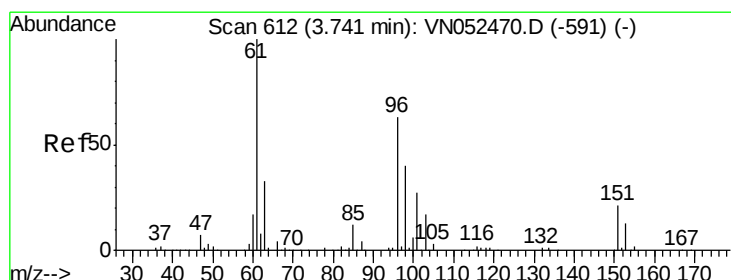
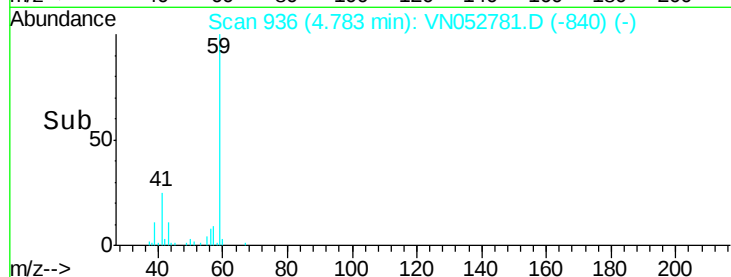
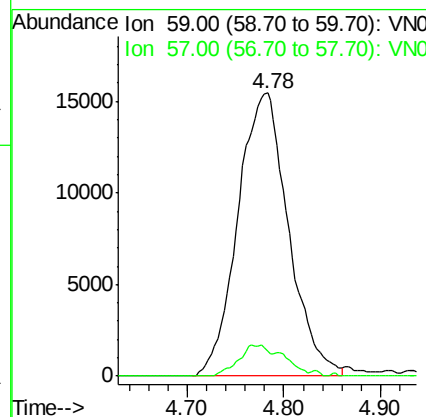
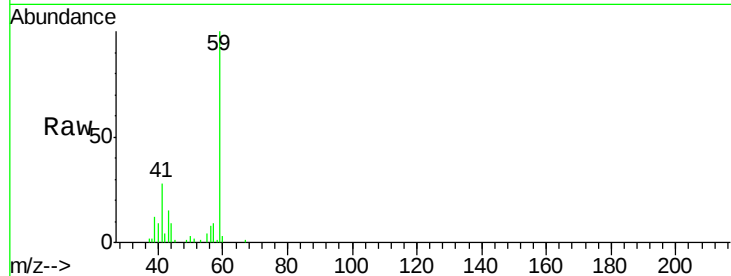
#11  
Tert butyl alcohol  
Concen: 108.226 ug/l  
RT: 4.78 min Scan# 936  
Delta R.T. 0.01 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

Tot Ion: 59 Resp: 56168  
Ion Ratio Lower Upper  
59 100  
57 6.8 7.9 11.9#

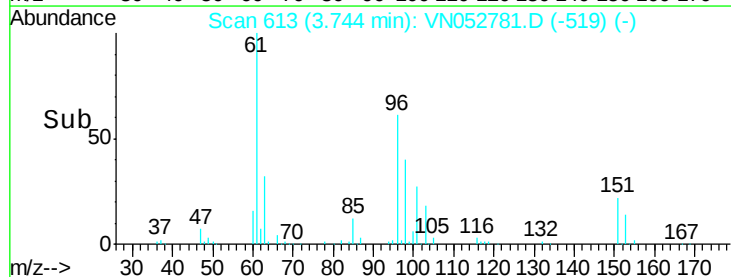
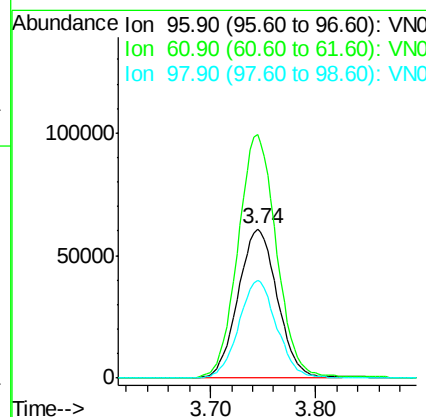
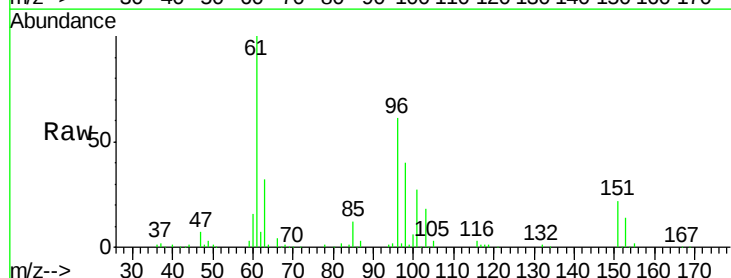
Manual Integrations  
APPROVED

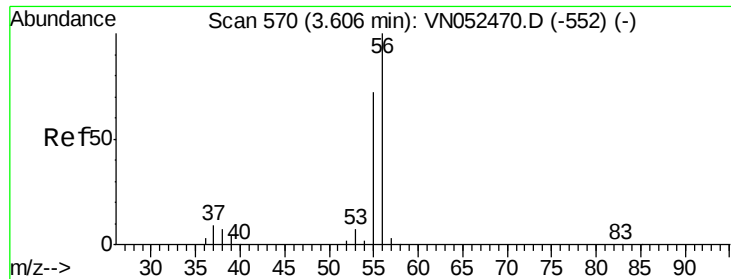
MMDadoda  
12/11/2018 12:47:05 PM



#12  
1,1-Dichloroethene  
Concen: 17.671 ug/l  
RT: 3.74 min Scan# 613  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Tgt Ion: 96 Resp: 157602  
Ion Ratio Lower Upper  
96 100  
61 163.1 127.0 190.6  
98 65.3 50.3 75.5





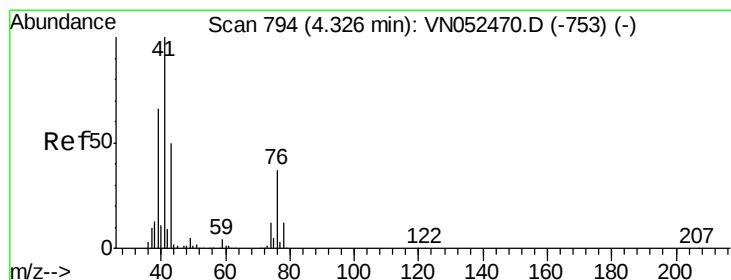
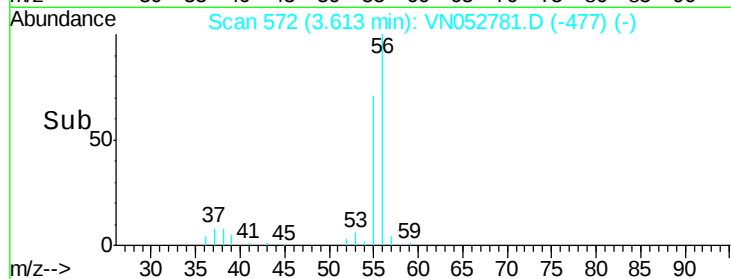
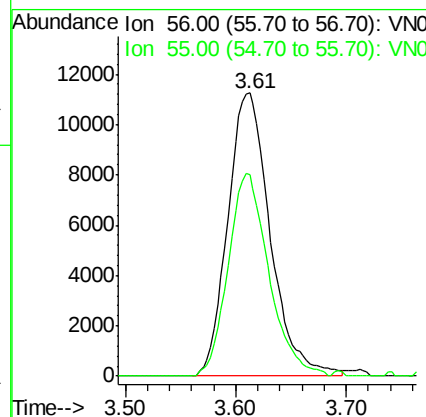
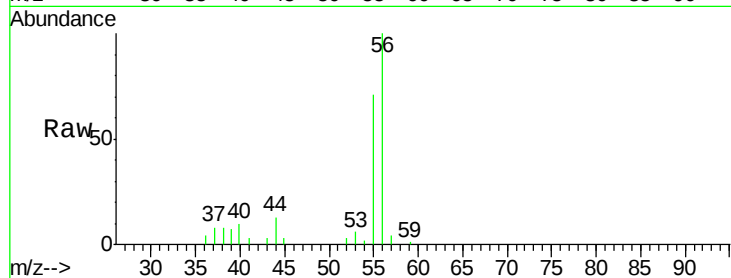
#13  
Acrolein  
Concen: 33.318 ug/l  
RT: 3.61 min Scan# 572  
Delta R.T. 0.01 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion   | 56   | Resp  | 30053 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 55        | 68.6 | 56.8  | 85.2  |

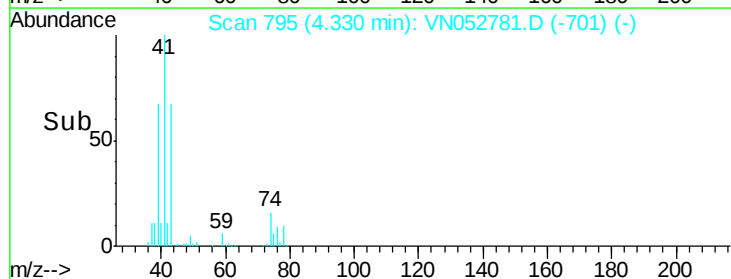
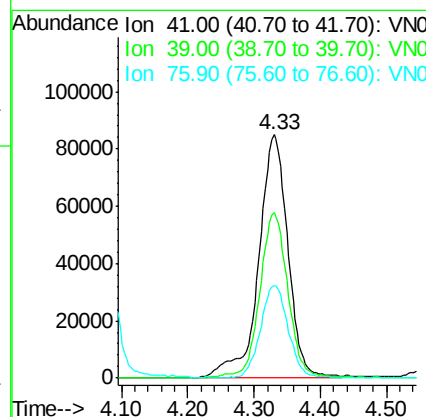
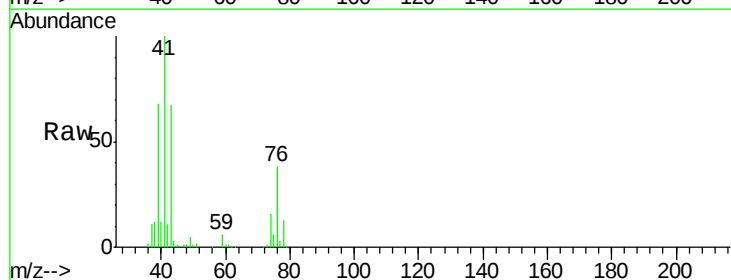
Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 12:47:05 PM



#14  
Allyl chloride  
Concen: 17.054 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion   | 41   | Resp  | 262141 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 39        | 65.3 | 50.6  | 76.0   |
| 76        | 35.4 | 27.4  | 41.2   |





#15

Acrylonitrile

Concen: 97.449 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

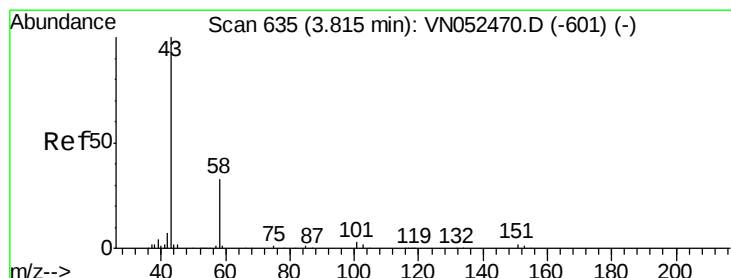
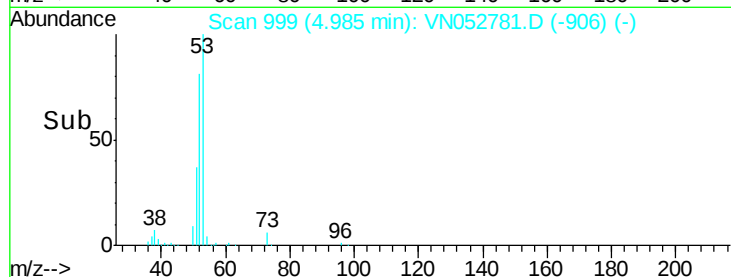
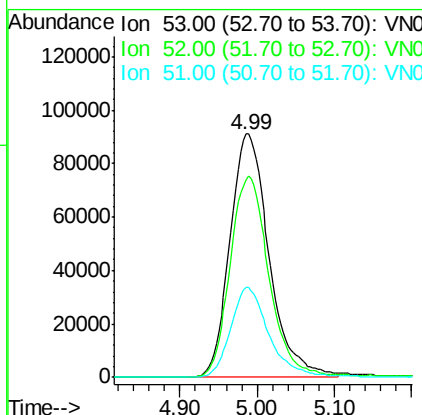
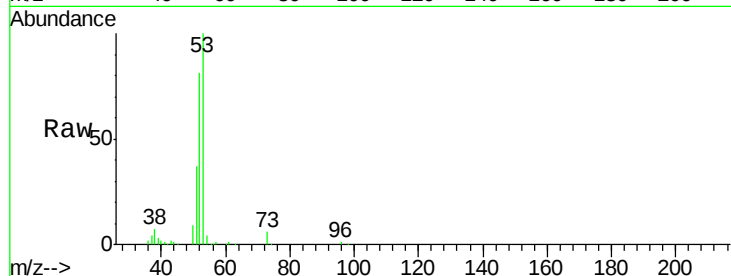
ClientSampleId :

VN1210WBSD03

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 320143 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 81.7  | 66.2  | 99.2   |
| 51       | 36.1  | 28.1  | 42.1   |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 12:47:05 PM



#16

Acetone

Concen: 76.840 ug/l

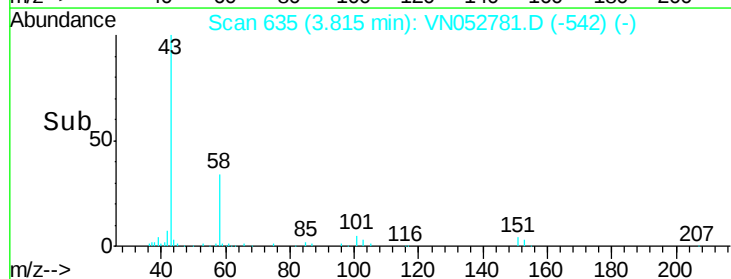
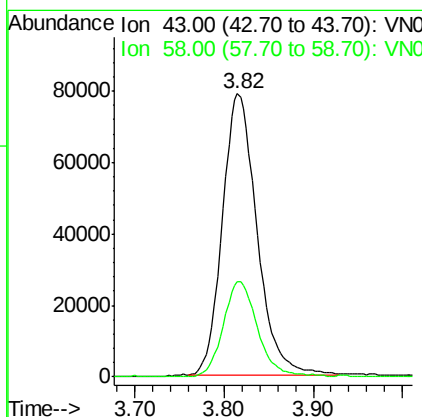
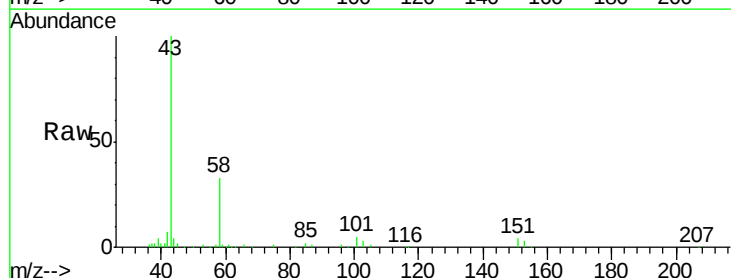
RT: 3.82 min Scan# 635

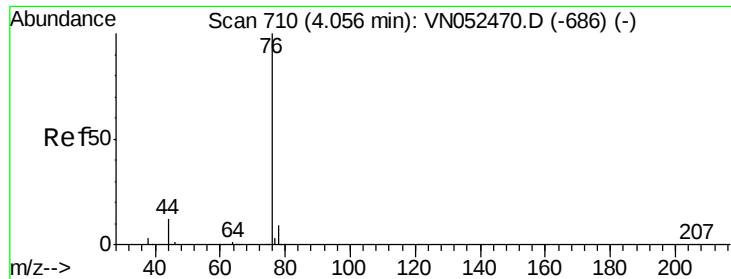
Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 210106 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 33.4  | 26.0  | 39.0   |





#17

Carbon Disulfide

Concen: 14.379 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 76 Resp: 403586

Ion Ratio Lower Upper

76 100

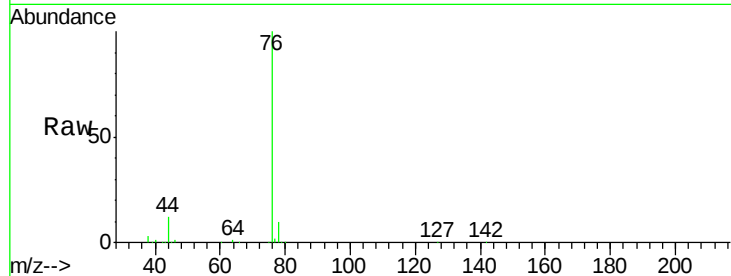
78 9.5 7.4 11.0

Manual Integrations

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12/11/2018 12:47:05 PM



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

4.06

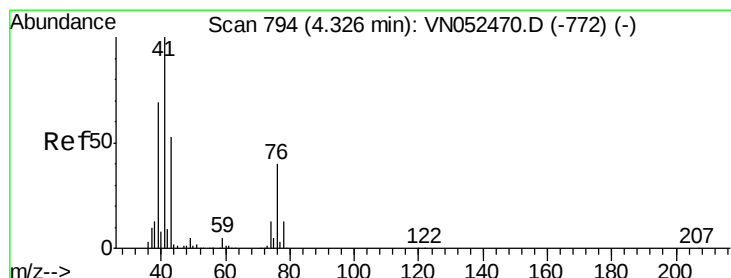
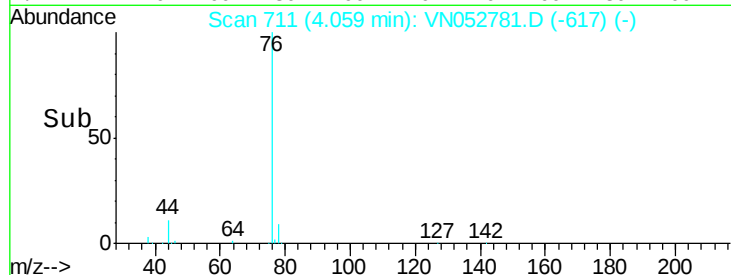
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 21.538 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052781.D

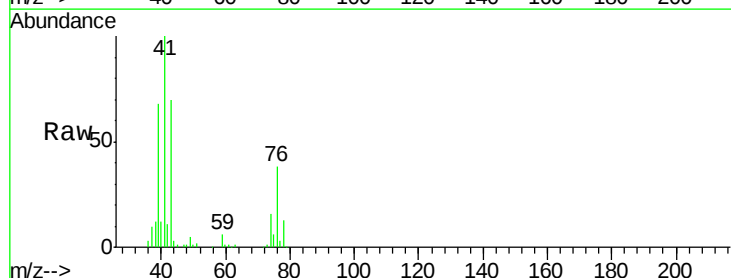
Acq: 11 Dec 2018 4:58

Tgt Ion: 43 Resp: 168931

Ion Ratio Lower Upper

43 100

74 23.2 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.33

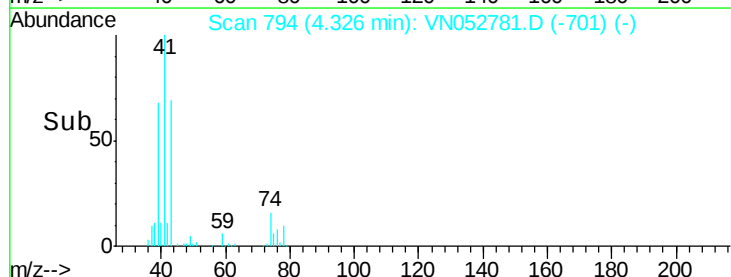
60000

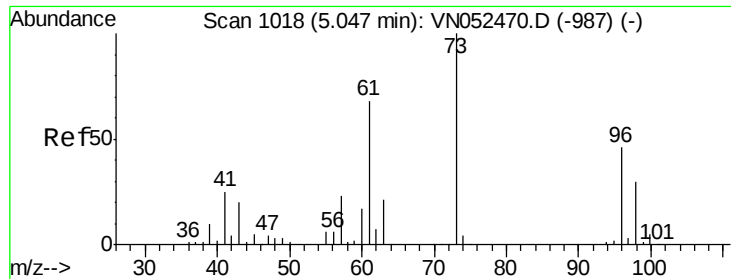
40000

20000

0

Time-->





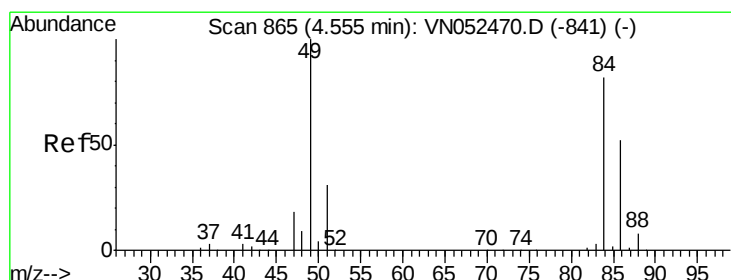
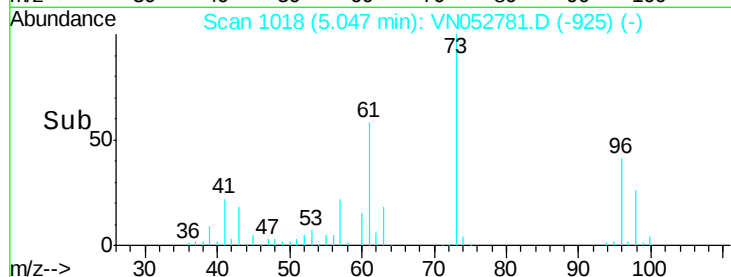
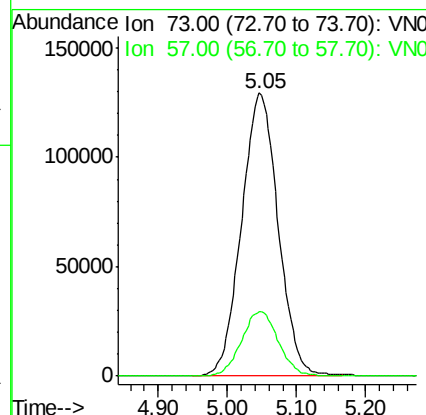
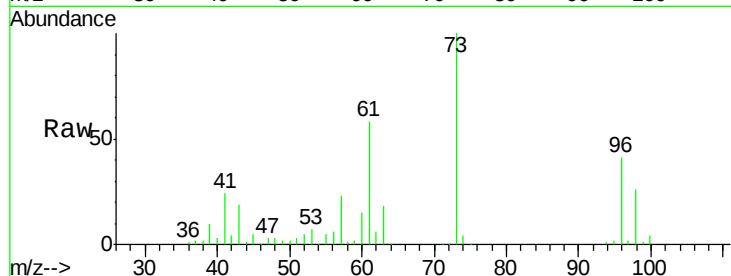
#19  
Methyl tert-butyl Ether  
Concen: 20.056 ug/l  
RT: 5.05 min Scan# 1018  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

Tot Ion: 73 Resp: 475924  
Ion Ratio Lower Upper  
73 100  
57 22.8 18.2 27.2

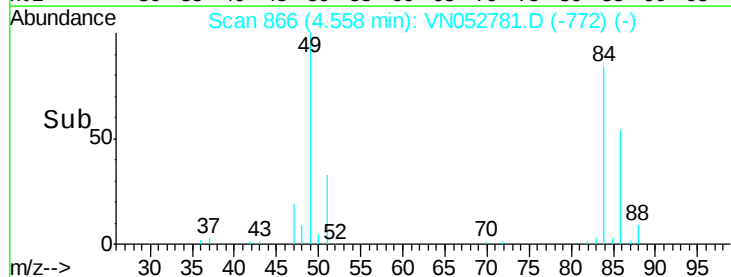
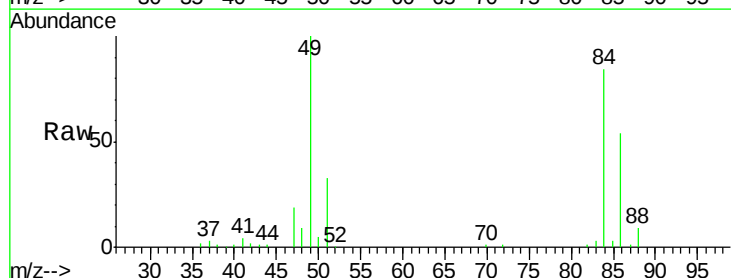
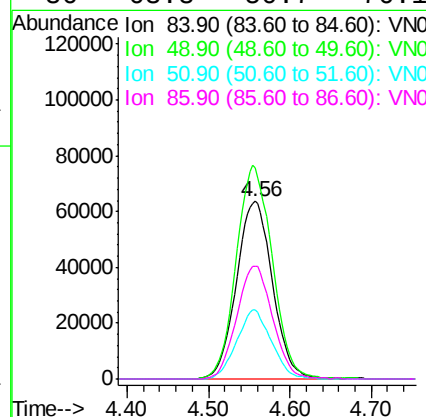
Manual Integrations  
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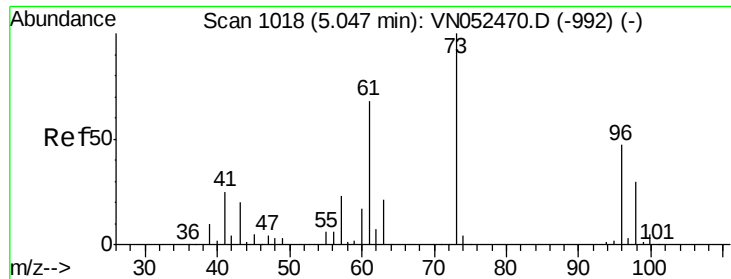
MMDadoda  
12/11/2018 12:47:05 PM



#20  
Methylene Chloride  
Concen: 18.277 ug/l  
RT: 4.56 min Scan# 866  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Tgt Ion: 84 Resp: 195569  
Ion Ratio Lower Upper  
84 100  
49 119.1 98.0 147.0  
51 39.1 30.1 45.1  
86 63.8 50.7 76.1





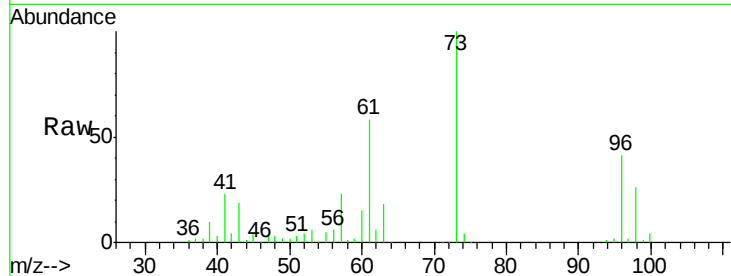
#21  
trans-1,2-Dichloroethene  
Concen: 18.054 ug/l  
RT: 5.05 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.4 | 117.0 | 175.4 |
| 98      | 62.9  | 51.8  | 77.6  |

Manual Integrations  
APPROVED

MMDadoda  
12/11/2018 12:47:05 PM

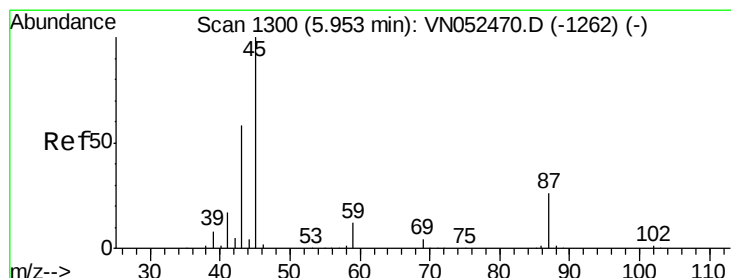
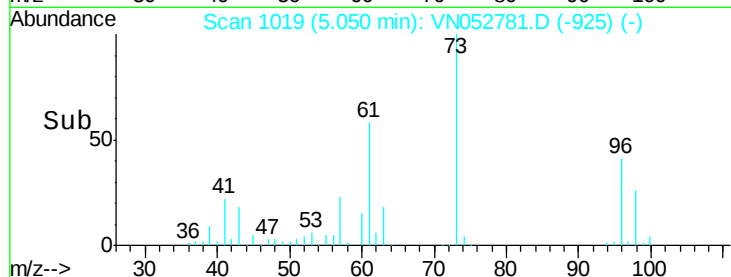
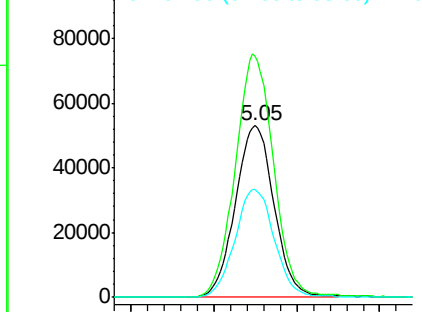


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22  
Diisopropyl ether  
Concen: 18.995 ug/l  
RT: 5.95 min Scan# 1300  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 43      | 57.9  | 46.1  | 69.1  |
| 87      | 27.2  | 21.3  | 31.9  |
| 59      | 11.6  | 9.5   | 14.3  |

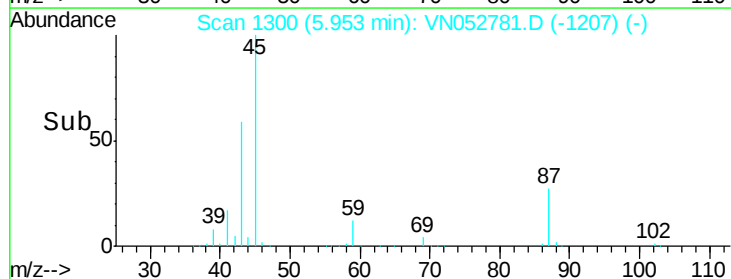
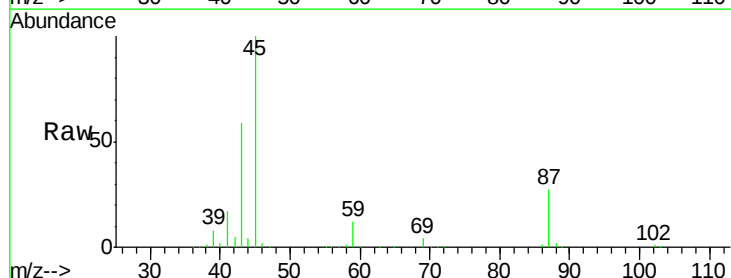
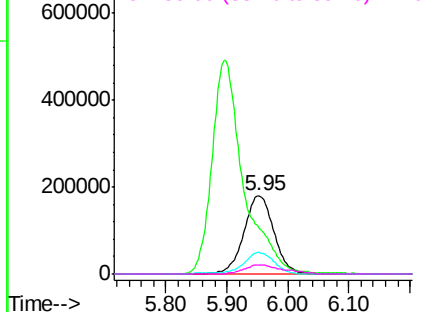
Abundance

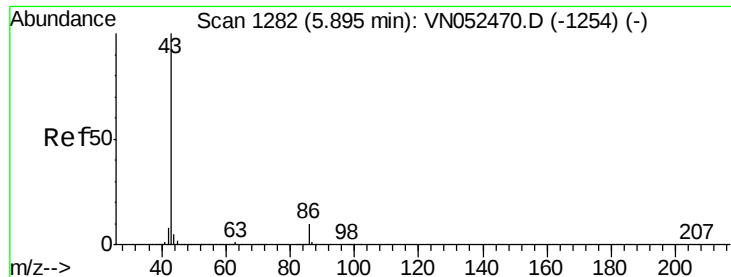
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 87.623 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 43 Resp: 1762181

Ion Ratio Lower Upper

43 100

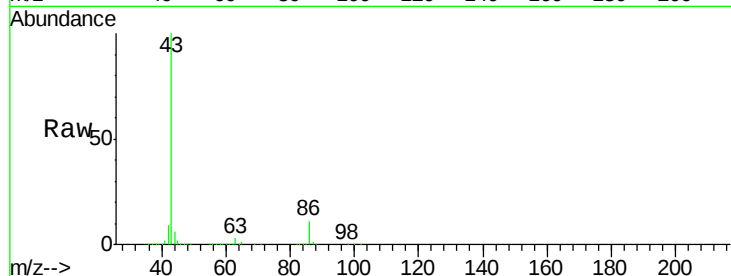
86 10.5 7.8 11.8

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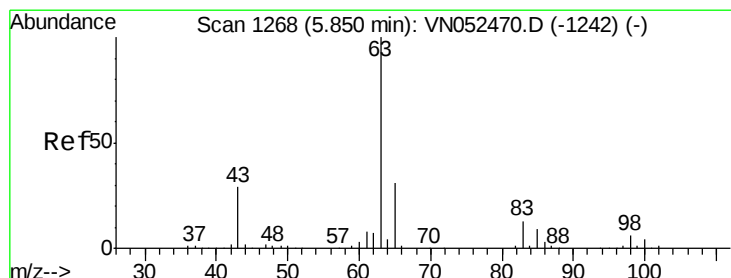
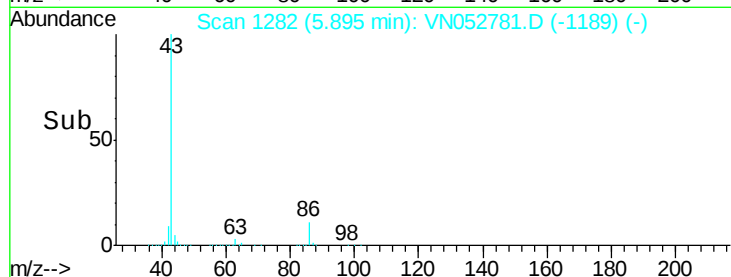
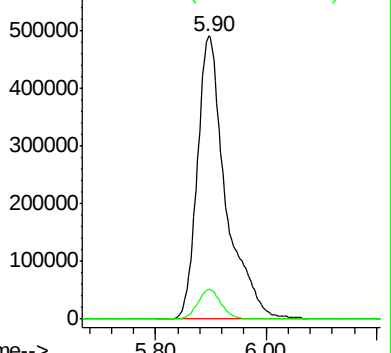
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 18.744 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

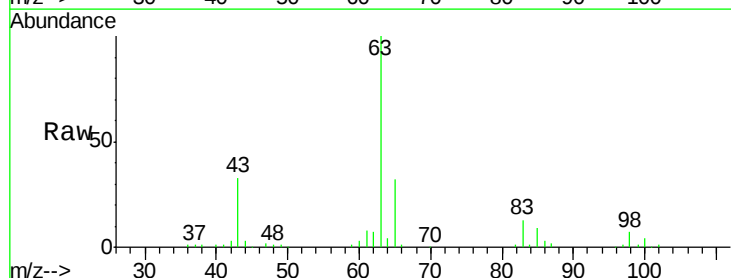
Tgt Ion: 63 Resp: 345561

Ion Ratio Lower Upper

63 100

98 6.6 3.0 9.2

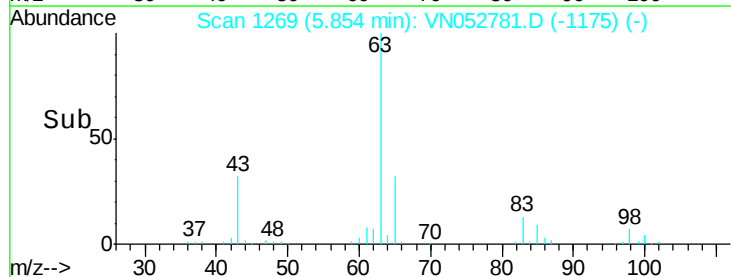
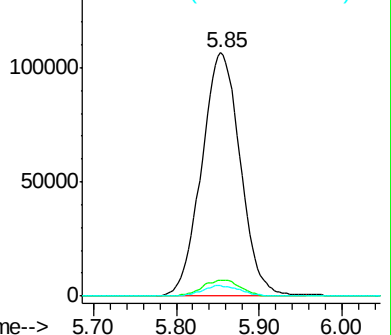
100 4.4 2.0 5.8



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: 91.833 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 43 Resp: 355909

Ion Ratio Lower Upper

43 100

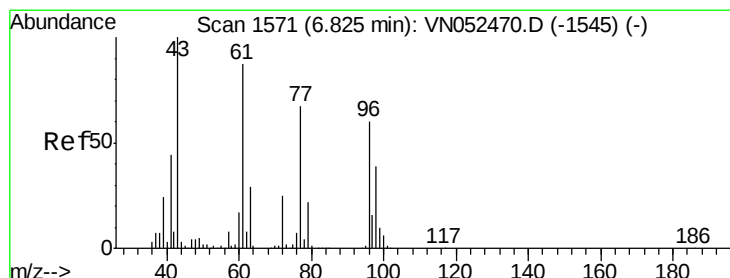
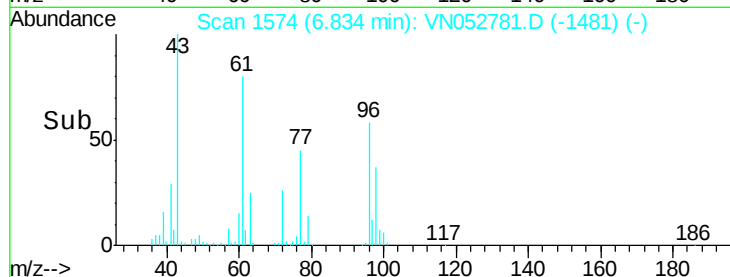
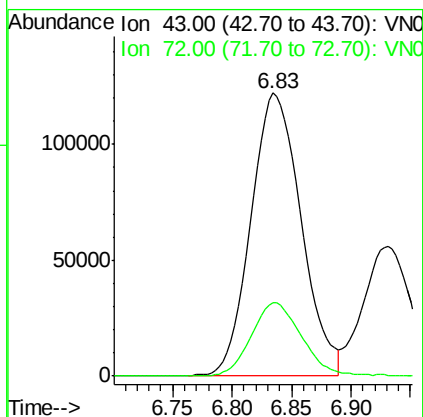
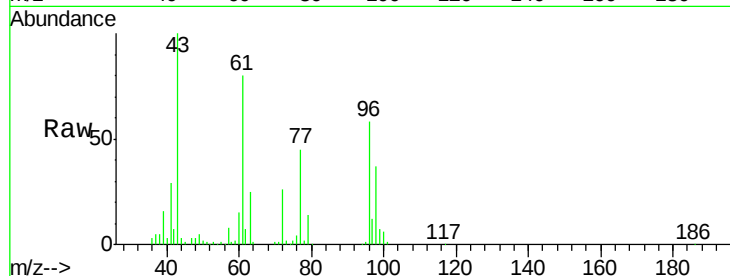
72 25.9 20.1 30.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 14.223 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN052781.D

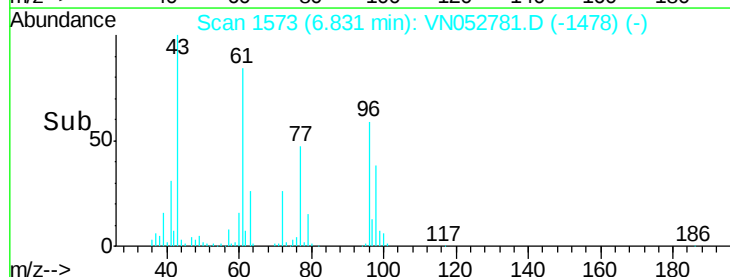
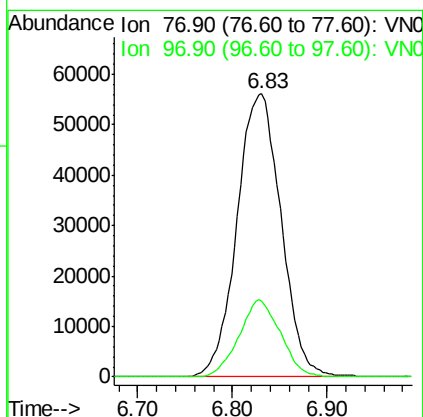
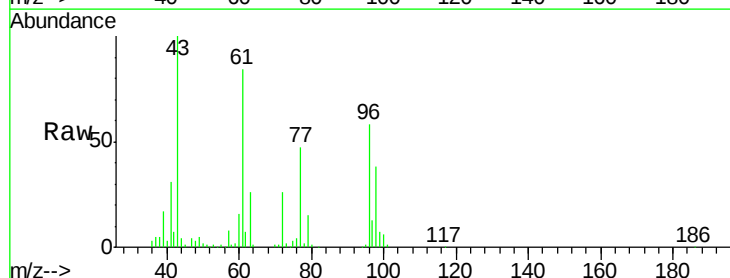
Acq: 11 Dec 2018 4:58

Tgt Ion: 77 Resp: 181497

Ion Ratio Lower Upper

77 100

97 25.7 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 18.534 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

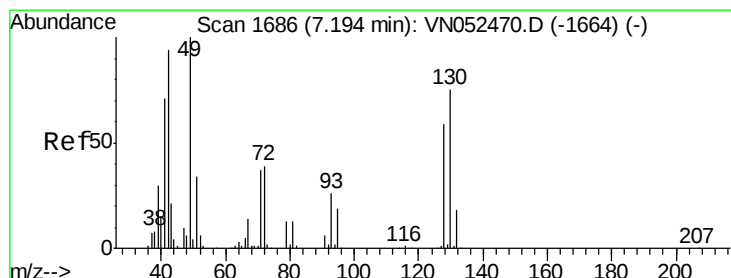
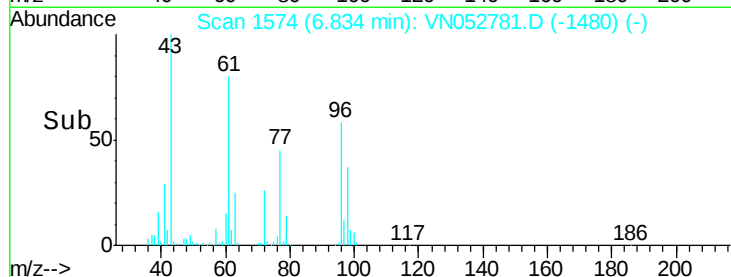
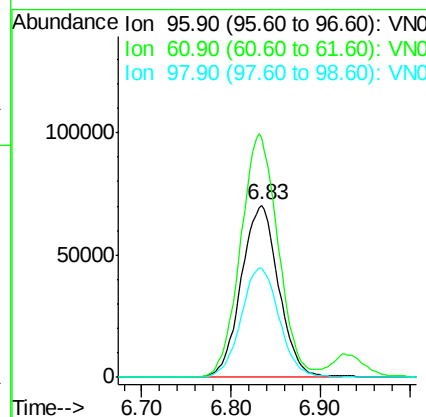
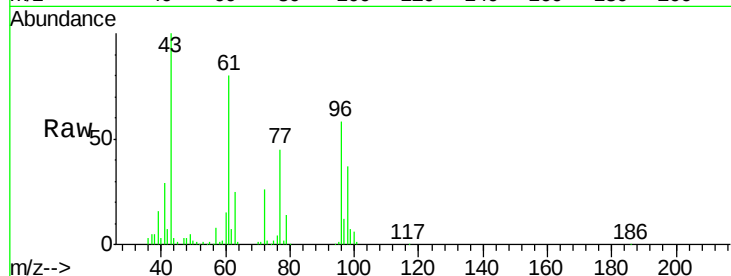
ClientSampleId :

VN1210WBSD03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 96    | Resp: | 205653 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 141.4 | 0.0   | 291.0  |
| 98        | 64.7  | 0.0   | 130.0  |

Manual Integrations  
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#28

Bromochloromethane

Concen: 19.262 ug/l

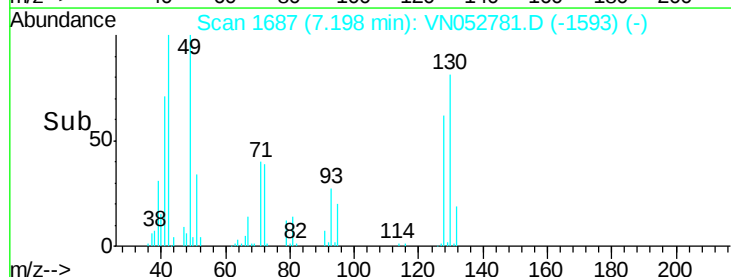
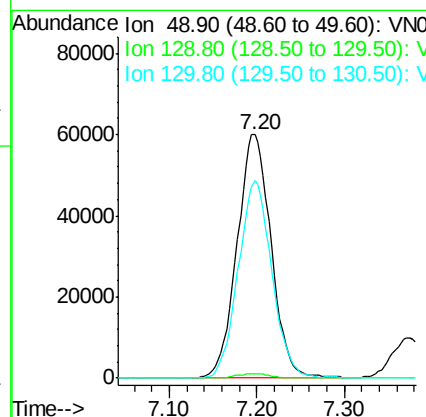
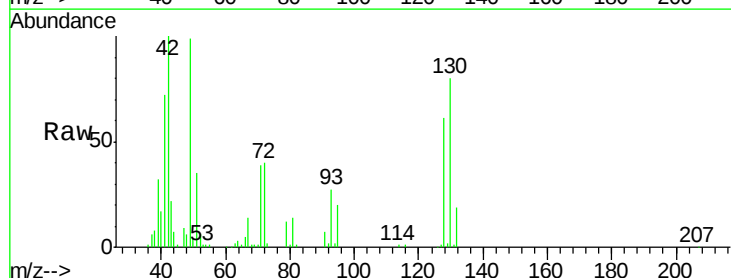
RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 49    | Resp: | 162191 |
| Ion Ratio | Lower | Upper |        |
| 49        | 100   |       |        |
| 129       | 1.7   | 0.0   | 3.8    |
| 130       | 79.9  | 60.2  | 90.2   |





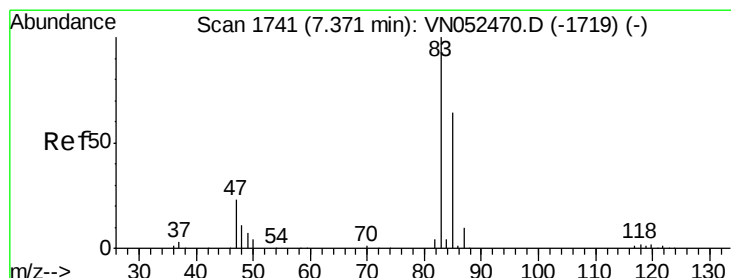
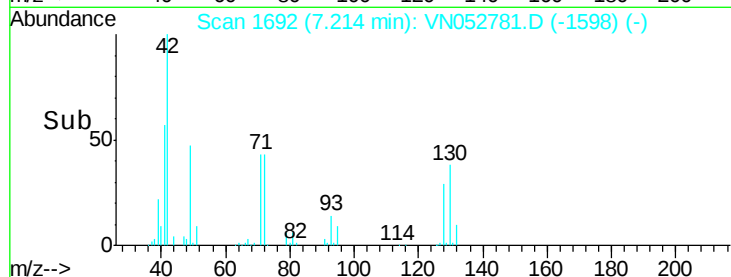
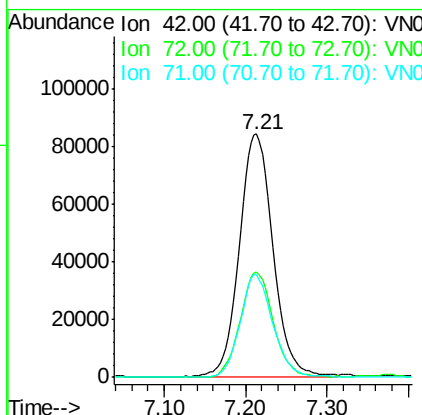
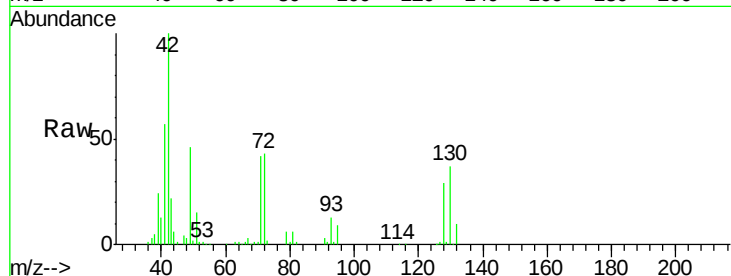
#29  
Tetrahydrofuran  
Concen: 95.453 ug/l  
RT: 7.21 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 42.9  | 33.3  | 49.9  |
| 71      | 41.3  | 32.0  | 48.0  |

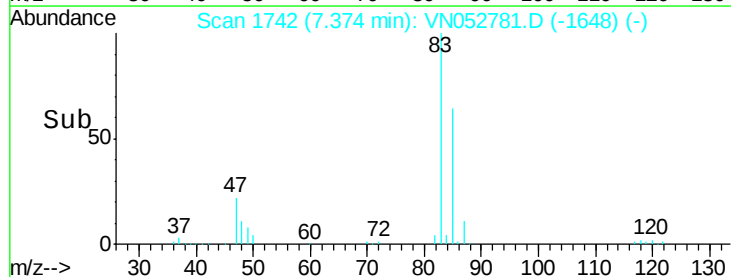
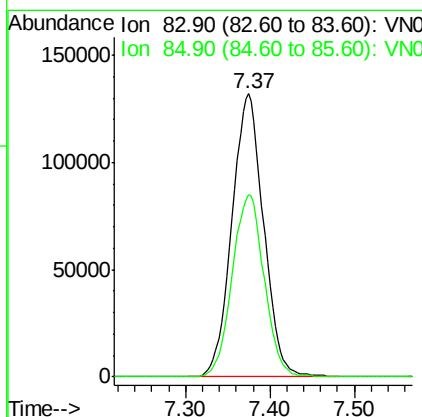
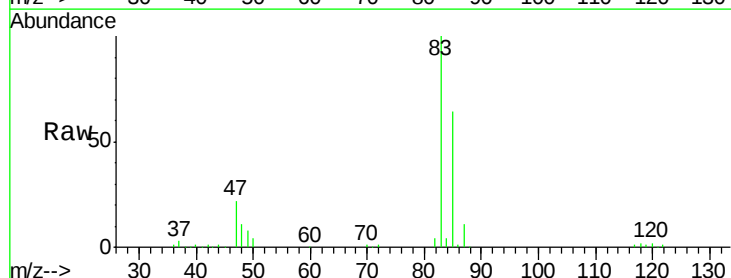
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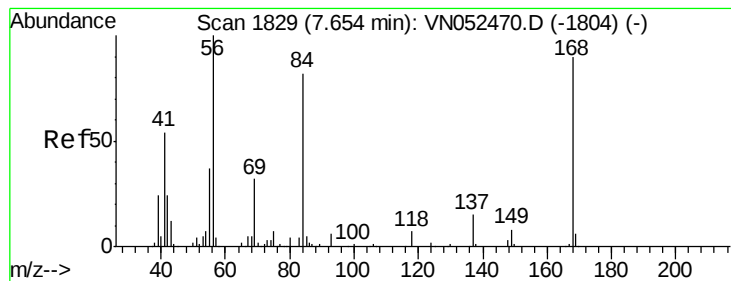
MMDadoda  
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#30  
Chloroform  
Concen: 18.755 ug/l  
RT: 7.37 min Scan# 1742  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.4  | 51.0  | 76.4  |





#31

Cyclohexane

Concen: 16.430 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

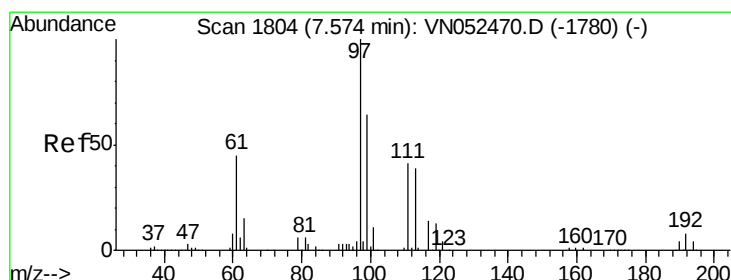
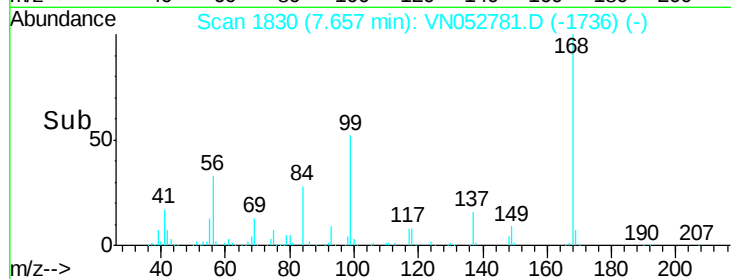
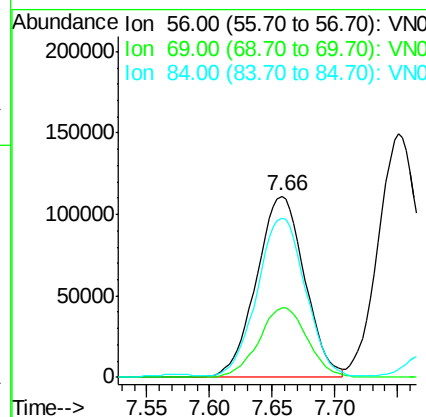
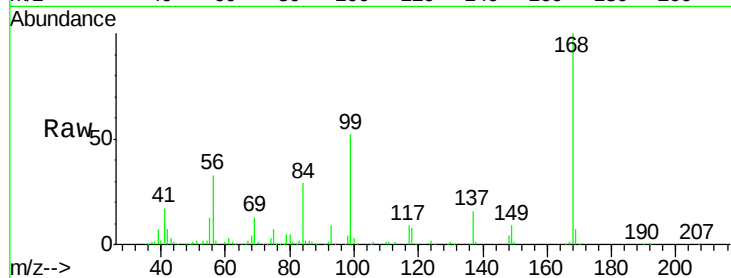
ClientSampleId :

VN1210WBSD03

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 297554  | 56  | 100   |       |       |
|         | 69  | 38.2  | 25.8  | 38.6  |
|         | 84  | 86.4  | 65.3  | 97.9  |

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#32

1,1,1-Trichloroethane

Concen: 19.195 ug/l

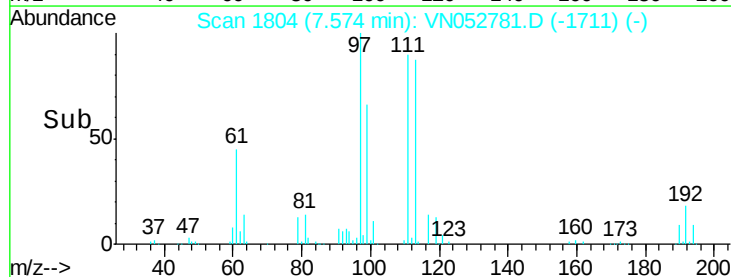
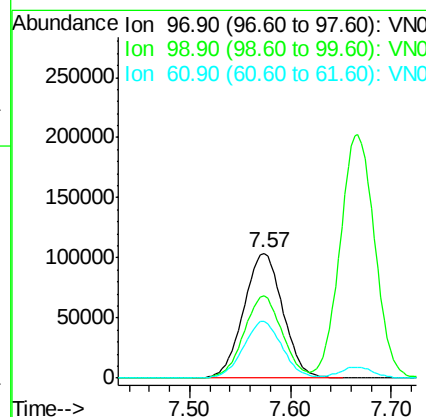
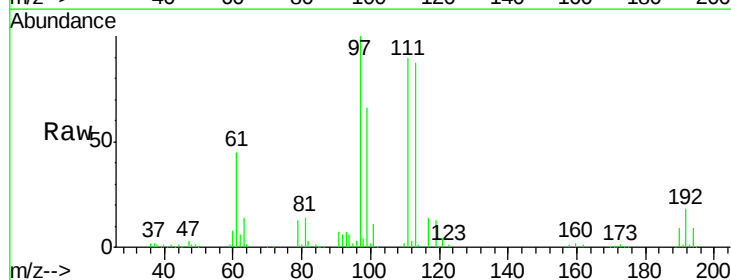
RT: 7.57 min Scan# 1804

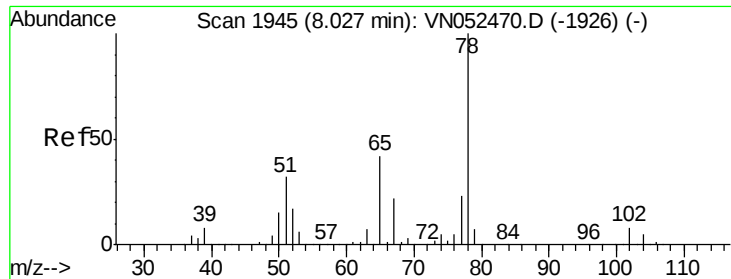
Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 279728  | 97  | 100   |       |       |
|         | 99  | 64.2  | 51.7  | 77.5  |
|         | 61  | 44.7  | 36.8  | 55.2  |





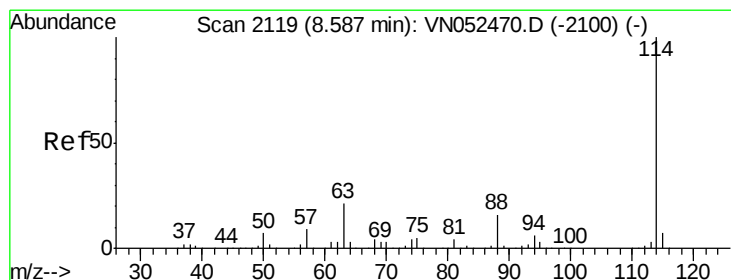
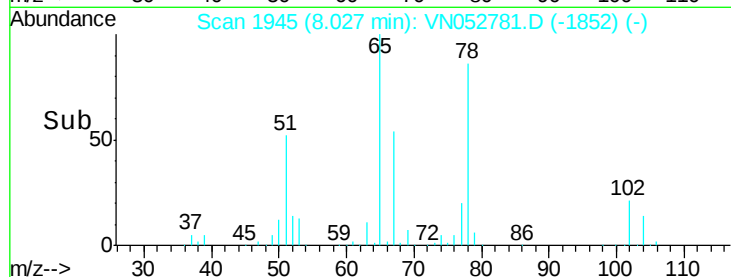
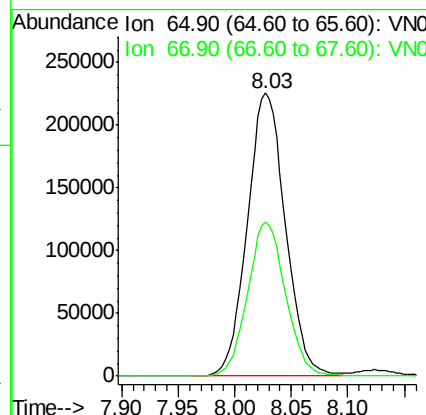
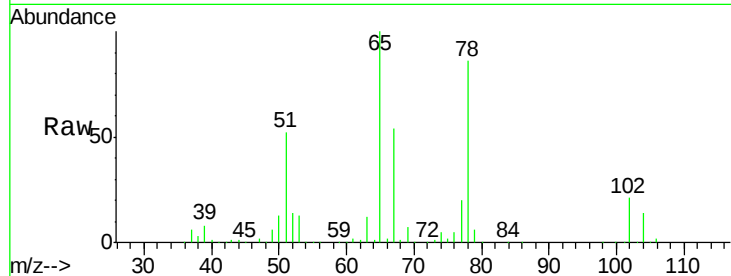
#33  
 1,2-Dichloroethane-d4  
 Concen: 19.195 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 527890 |       |       |
| 67      | 54.4  | 0.0    | 109.8 |       |

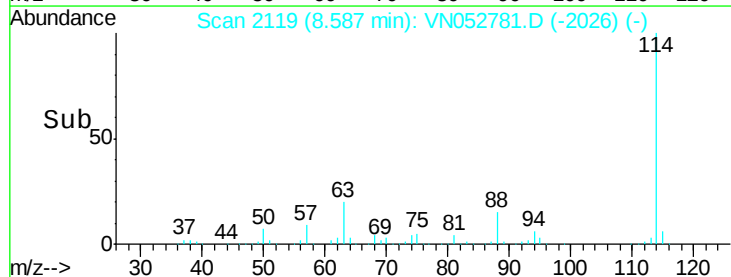
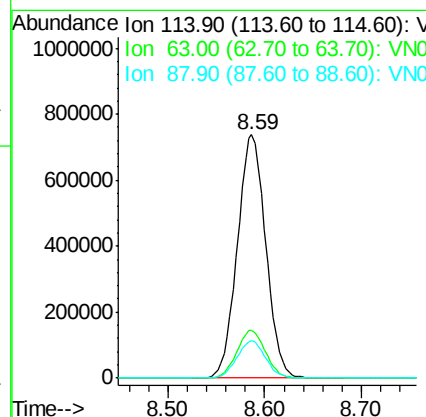
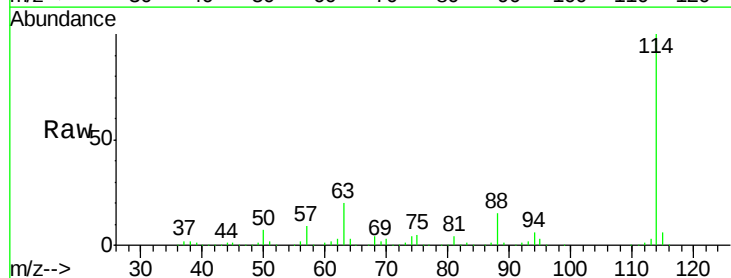
Manual Integrations  
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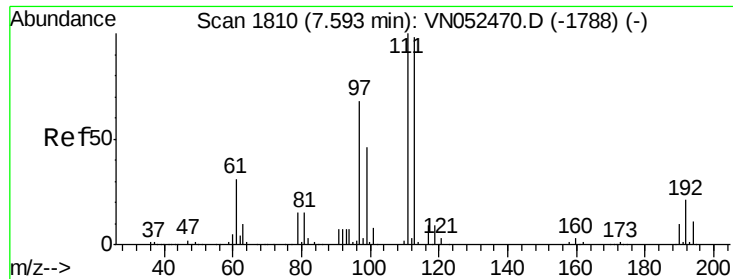
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 114     | 100   | 1505889 |       |       |
| 63      | 19.7  | 0.0     | 41.8  |       |
| 88      | 15.4  | 0.0     | 31.6  |       |





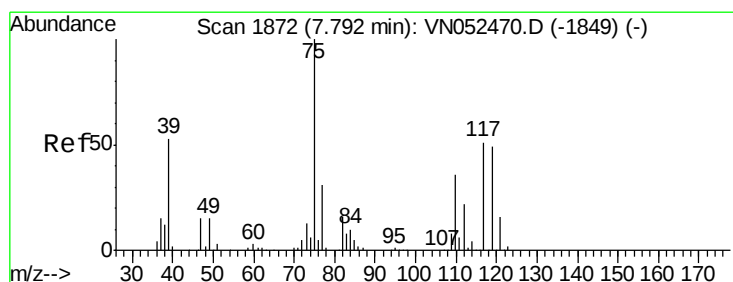
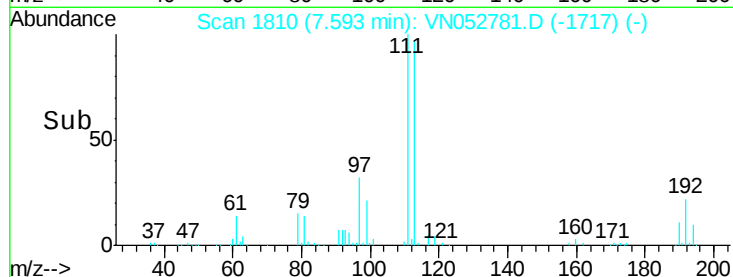
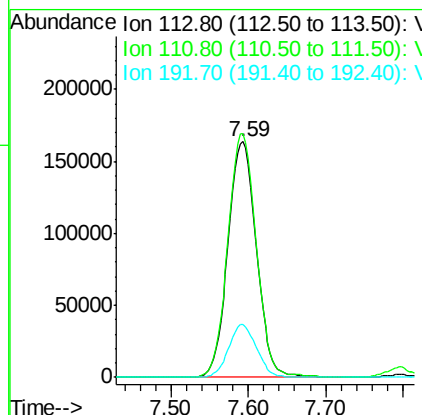
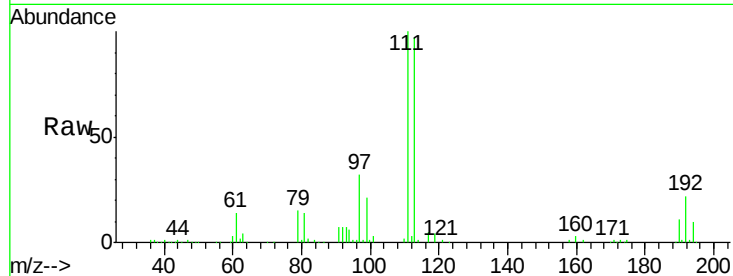
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 7.59 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 113     | 100   |      |       |       |
| 111     | 103.1 | 82.0 | 123.0 |       |
| 192     | 21.9  | 17.0 | 25.6  |       |

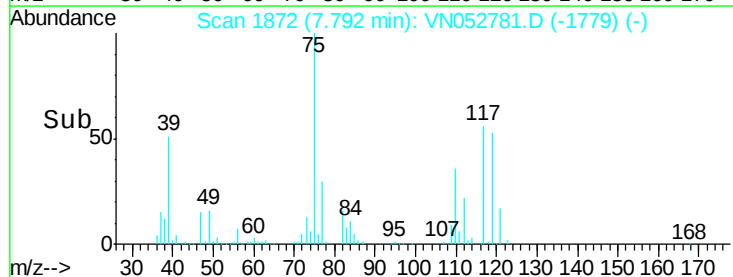
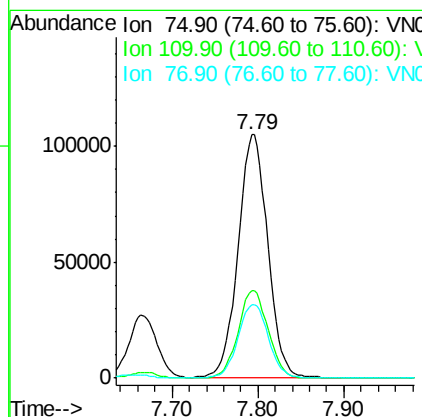
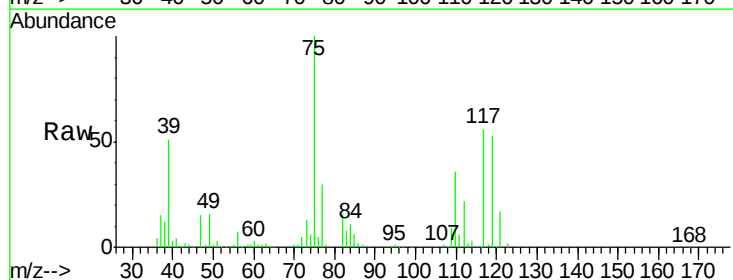
Manual Integrations  
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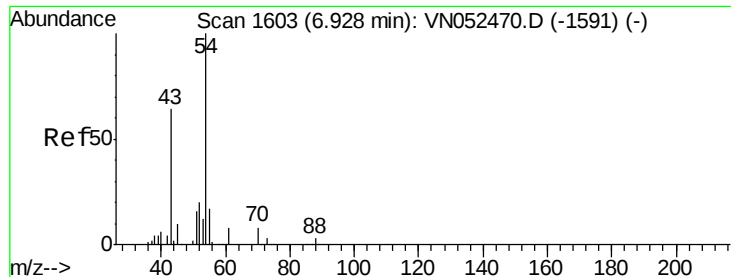
MMDadoda  
12/11/2018 12:47:05 PM



#36  
1,1-Dichloropropene  
Concen: 17.632 ug/l  
RT: 7.79 min Scan# 1872  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 75      | 100   |      |       |       |
| 110     | 36.3  | 17.5 | 52.6  |       |
| 77      | 31.3  | 24.5 | 36.7  |       |





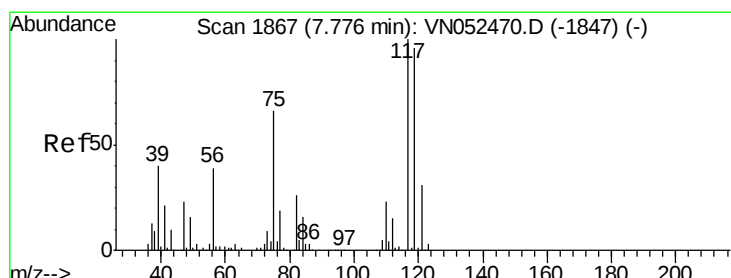
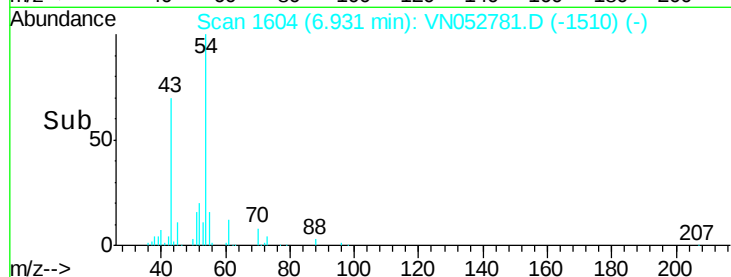
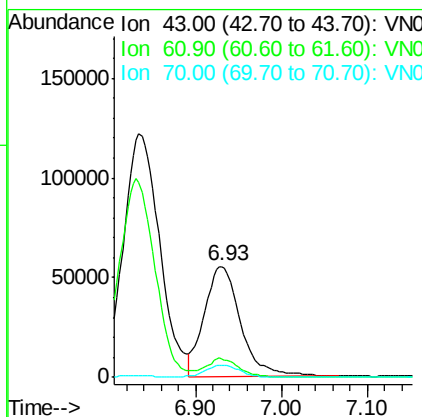
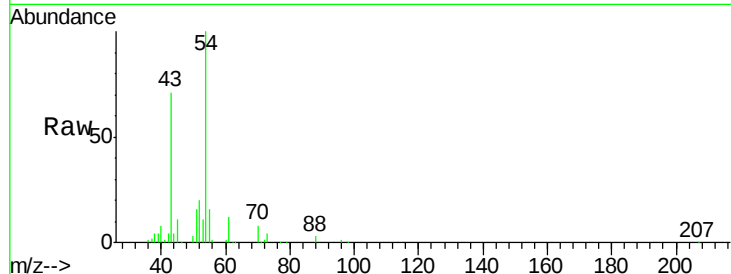
#37  
Ethyl Acetate  
Concen: 18.690 ug/l  
RT: 6.93 min Scan# 1604  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 15.1  | 11.8  | 17.8  |
| 70      | 10.6  | 7.8   | 11.8  |

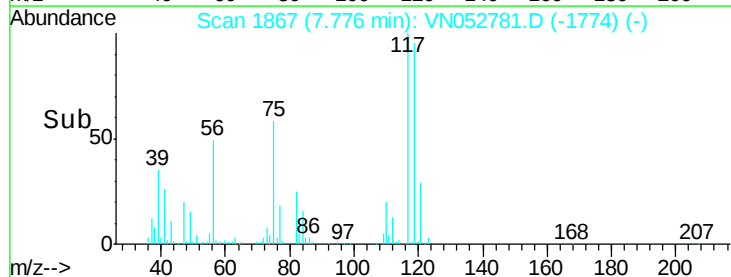
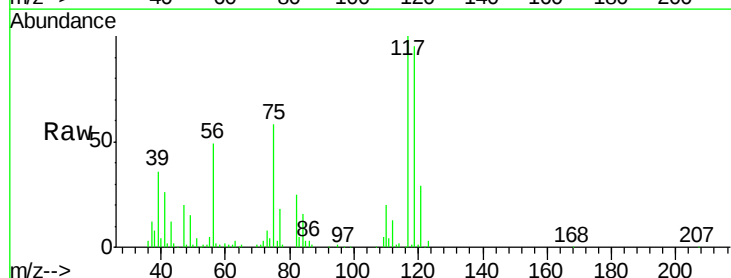
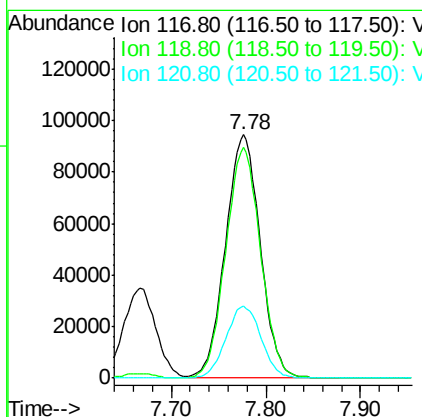
Manual Integrations  
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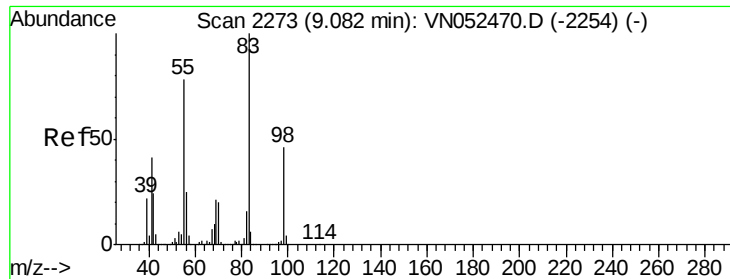
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#38  
Carbon Tetrachloride  
Concen: 18.774 ug/l  
RT: 7.78 min Scan# 1867  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 94.9  | 76.8  | 115.2 |
| 121     | 29.5  | 24.9  | 37.3  |





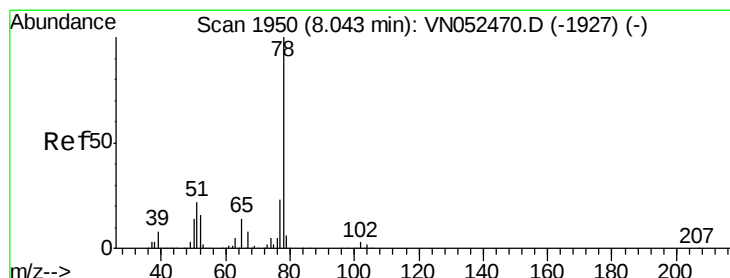
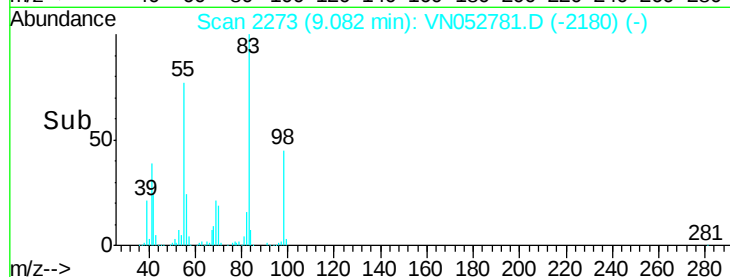
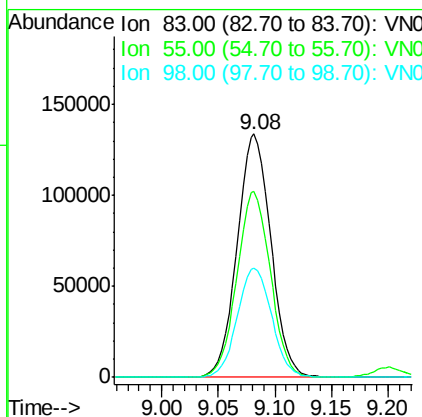
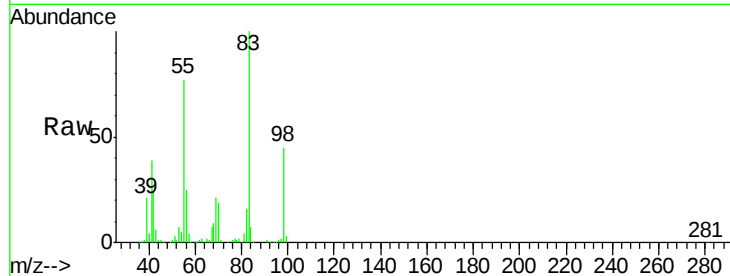
#39  
Methvlcvclohexane  
Concen: 16.100 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 76.6  | 62.2  | 93.2  |
| 98      | 45.1  | 36.4  | 54.6  |

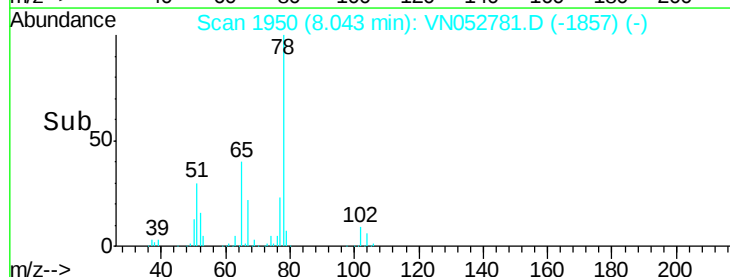
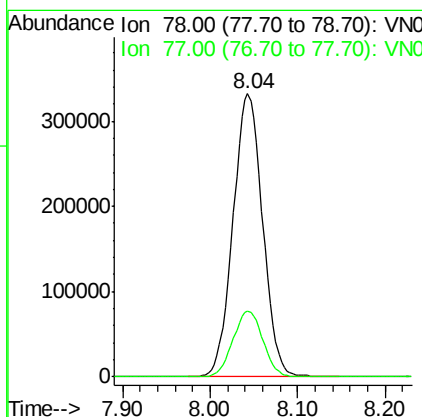
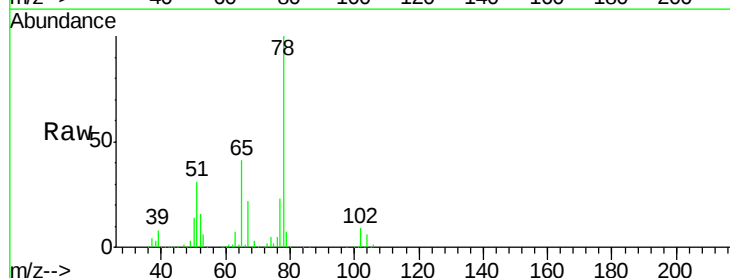
Manual Integrations  
APPROVED

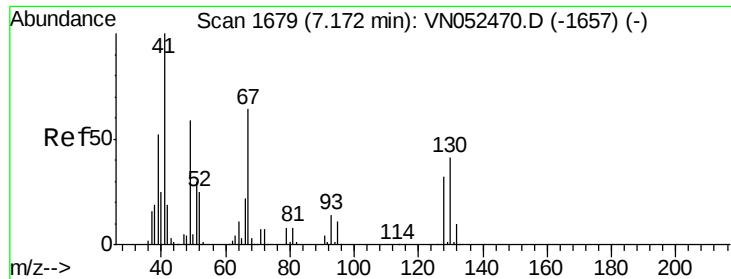
MMDadoda  
12/11/2018 12:47:05 PM



#40  
Benzene  
Concen: 18.394 ug/l  
RT: 8.04 min Scan# 1950  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.1  | 18.8  | 28.2  |





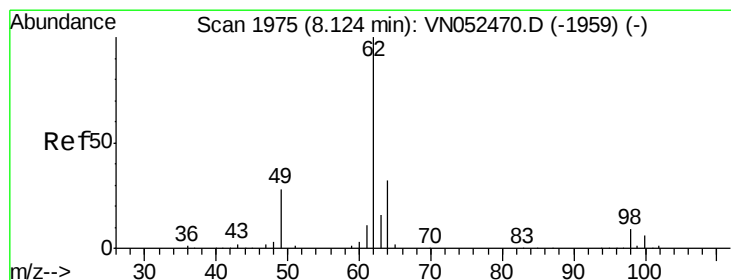
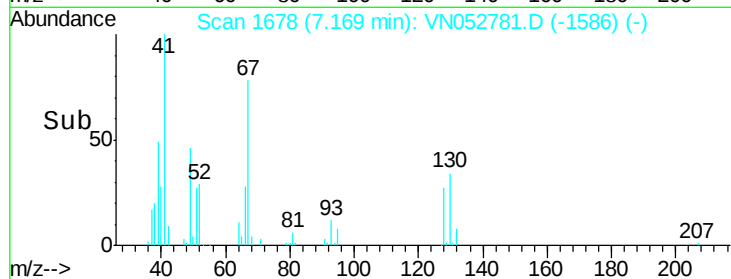
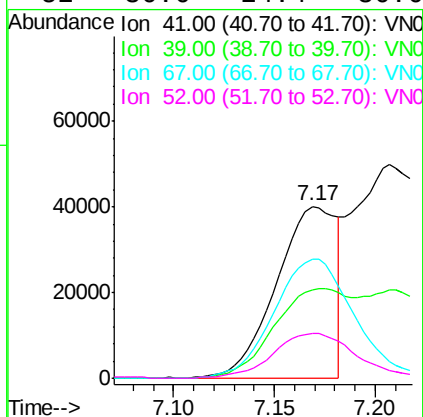
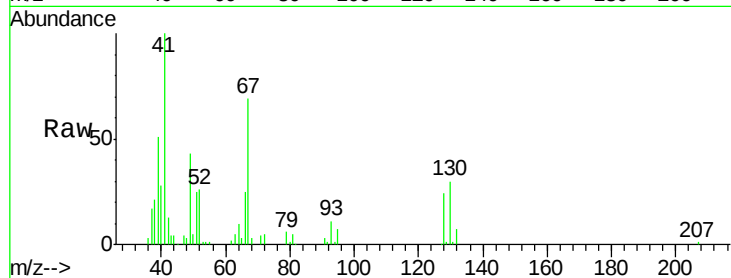
#41  
Methacrylonitrile  
Concen: 17.529 ug/l  
RT: 7.17 min Scan# 1678  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion   | 41    | Resp  | 83170 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 39        | 67.5  | 50.9  | 76.3  |
| 67        | 92.8  | 63.6  | 95.4  |
| 52        | 36.6  | 24.4  | 36.6# |

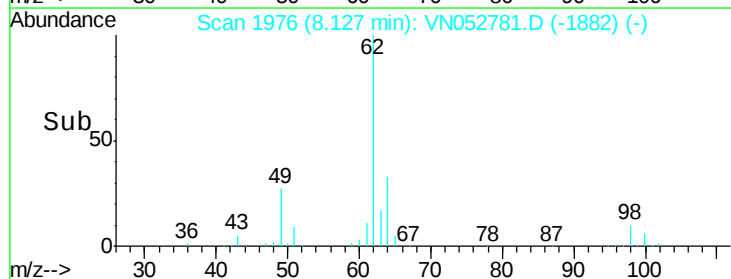
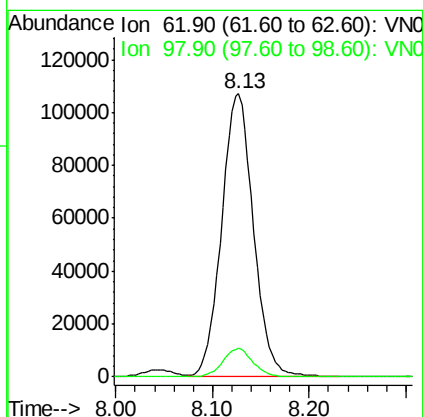
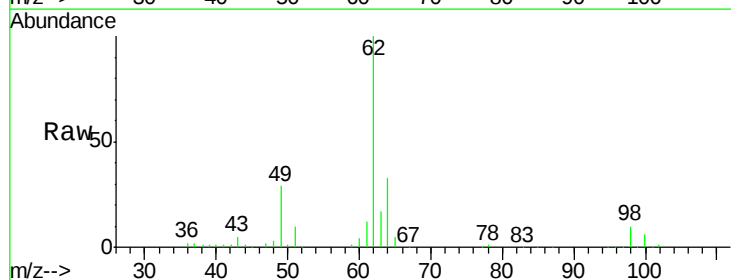
Manual Integrations  
APPROVED

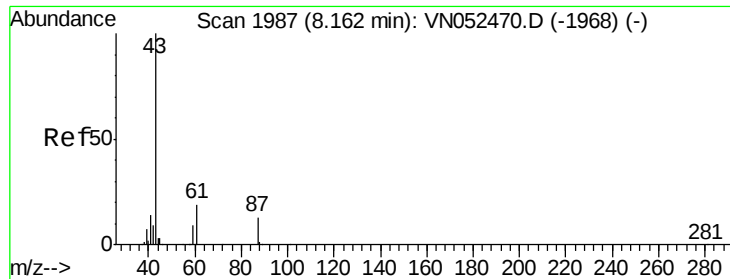
MMDadoda  
12/11/2018 12:47:05 PM



#42  
1,2-Dichloroethane  
Concen: 18.983 ug/l  
RT: 8.13 min Scan# 1976  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion   | 62    | Resp  | 243587 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 62        | 100   |       |        |
| 98        | 9.4   | 0.0   | 18.6   |





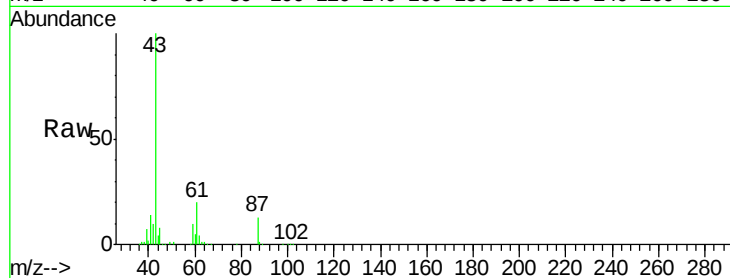
#43  
Isopropyl Acetate  
Concen: 23.616 ug/l  
RT: 8.17 min Scan# 1988  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 25.1  | 24.1  | 36.1  |
| 87      | 11.4  | 10.6  | 15.8  |

Manual Integrations  
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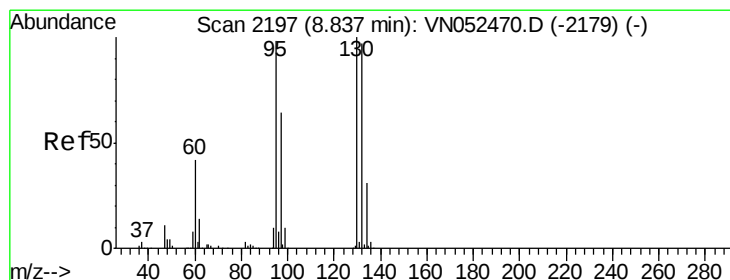
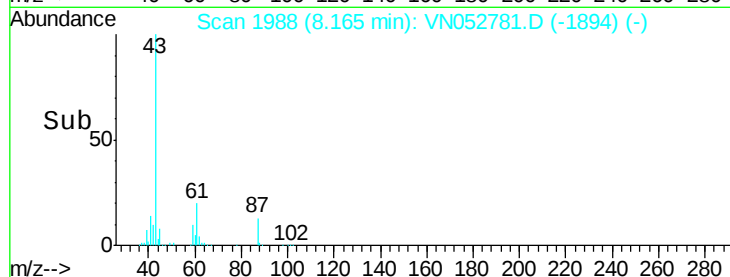
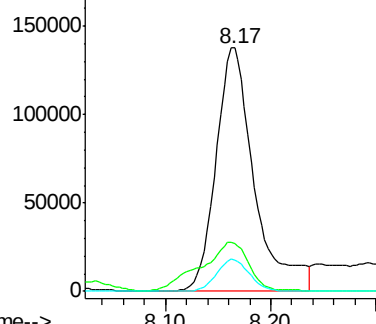
MMDadoda  
12/11/2018 12:47:05 PM



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-1968) (-)

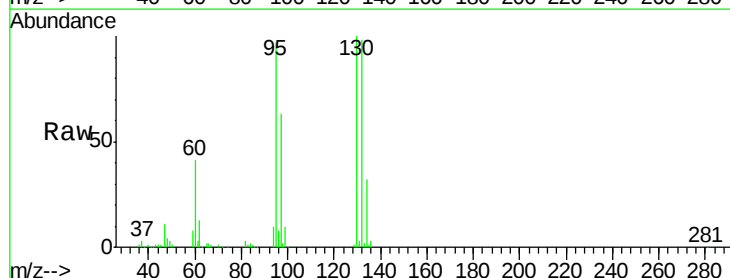
Ion 61.00 (60.70 to 61.70): VN052470.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052470.D (-1968) (-)



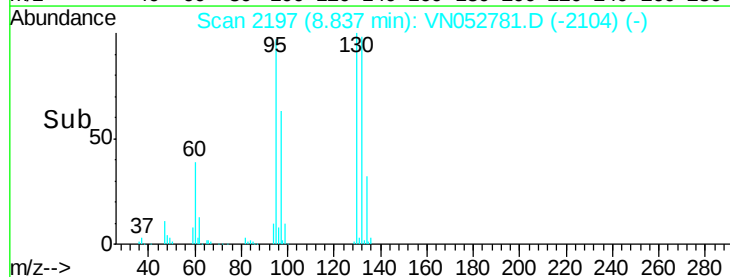
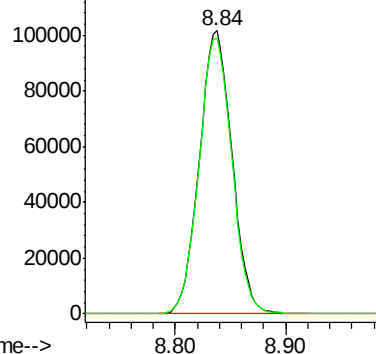
#44  
Trichloroethene  
Concen: 19.251 ug/l  
RT: 8.84 min Scan# 2197  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

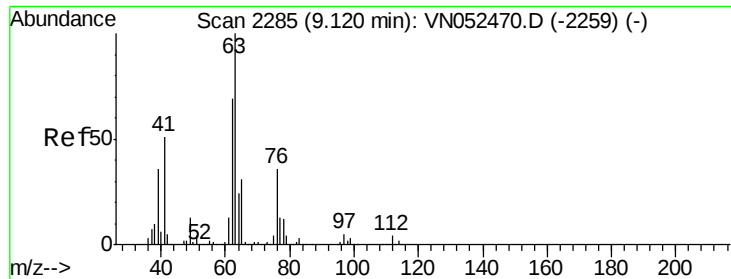
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 97.3  | 0.0   | 195.6 |



Abundance Ion 129.80 (129.50 to 130.50): VN052470.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN052470.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 18.882 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 63 Resp: 212747

Ion Ratio Lower Upper

63 100

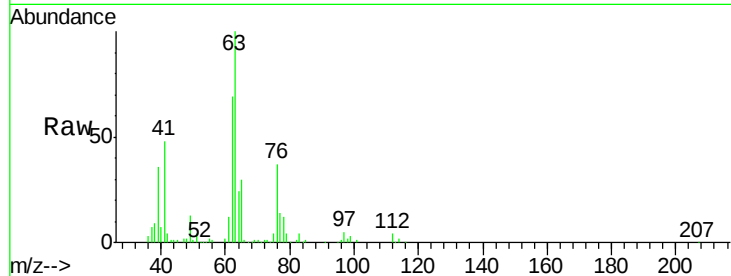
65 30.3 25.0 37.6

Manual Integrations

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

120000

100000

80000

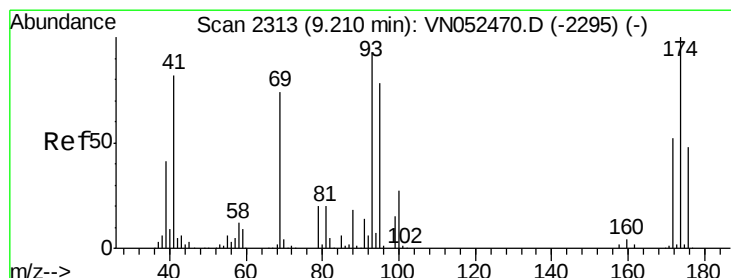
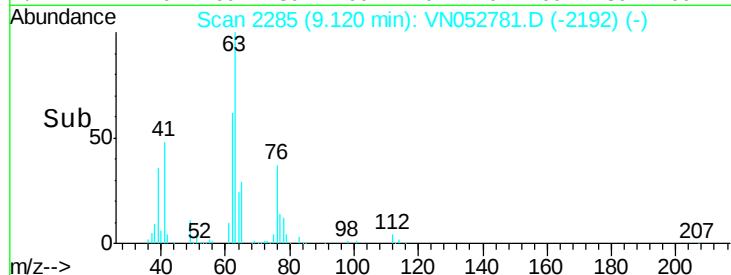
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 19.182 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

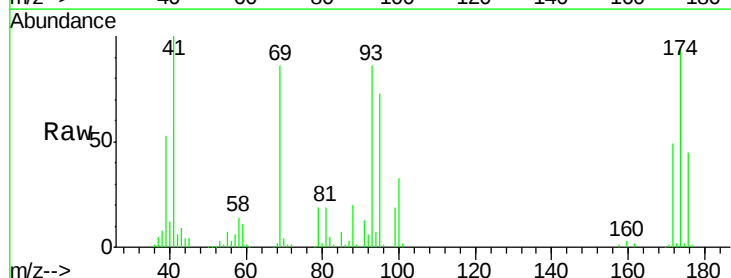
Tgt Ion: 93 Resp: 119643

Ion Ratio Lower Upper

93 100

95 85.7 67.1 100.7

174 112.4 85.8 128.8



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

80000

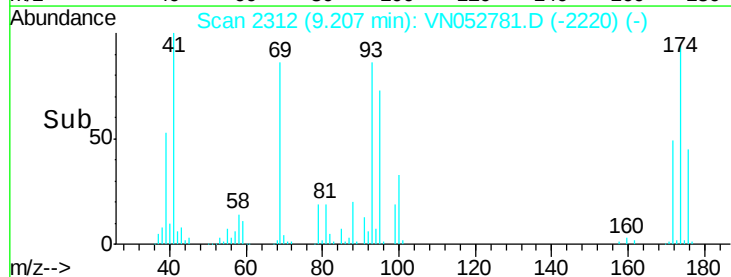
60000

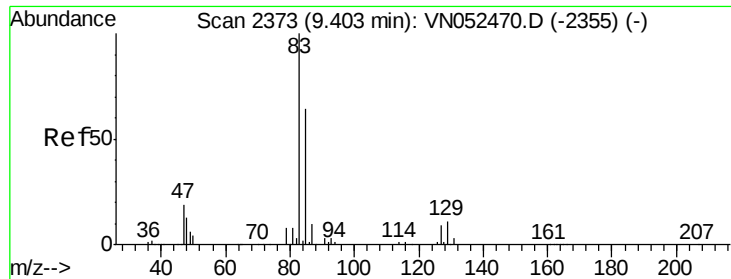
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 19.069 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

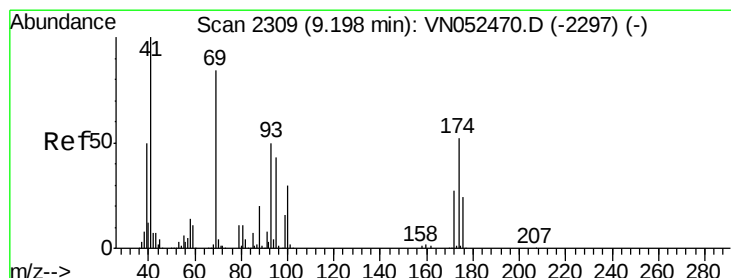
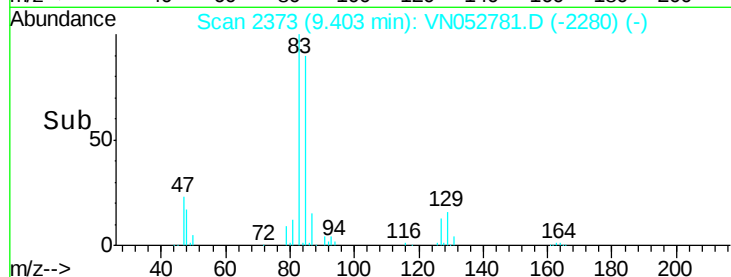
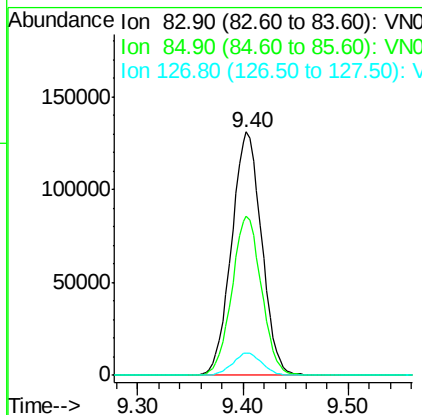
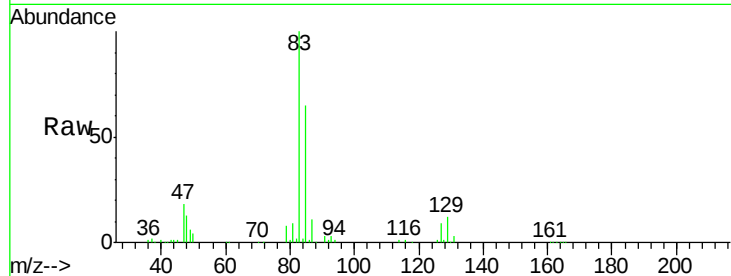
ClientSampleId :

VN1210WBSD03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 258595 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 65.5  | 51.3  | 76.9   |
| 127       | 9.3   | 6.9   | 10.3   |

Manual Integrations  
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12/11/2018 12:47:05 PM



#48

Methyl methacrylate

Concen: 19.417 ug/l

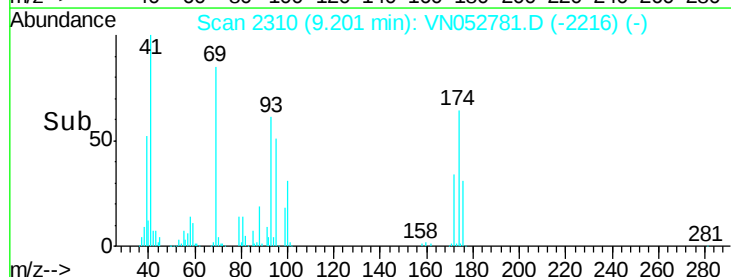
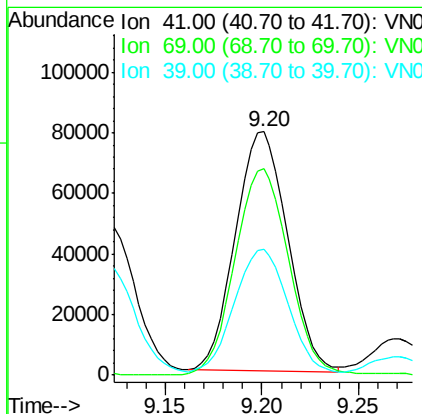
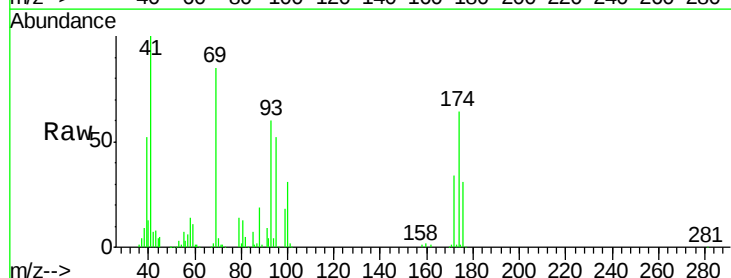
RT: 9.20 min Scan# 2310

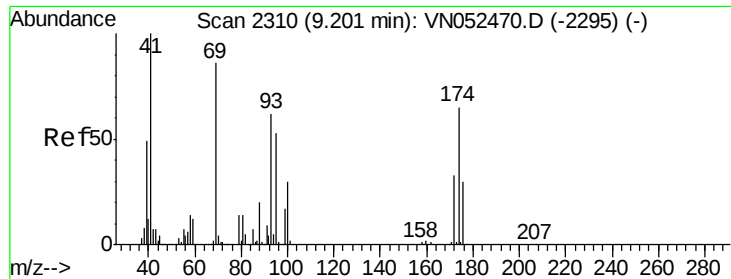
Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 148701 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 69        | 88.9  | 70.0  | 105.0  |
| 39        | 54.5  | 42.6  | 64.0   |





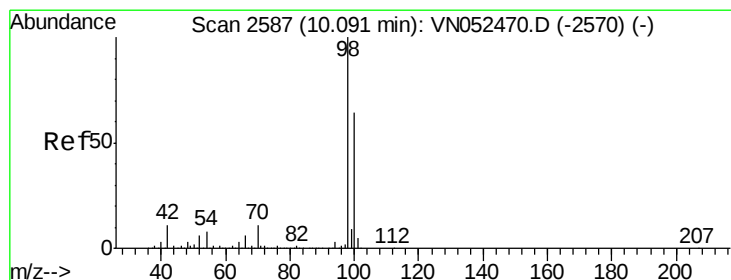
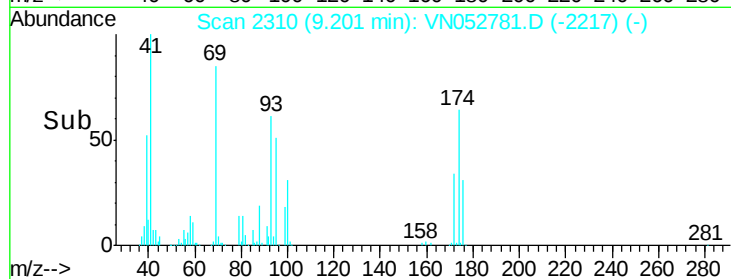
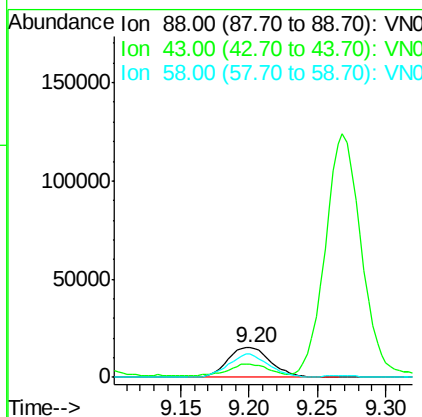
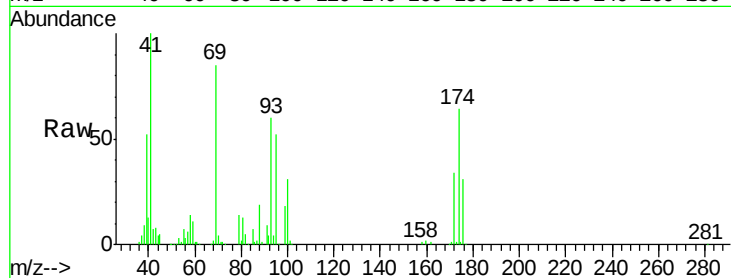
#49  
1,4-Dioxane  
Concen: 423.357 ug/l  
RT: 9.20 min Scan# 2310  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | 88    | Resp  | 33648 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 35.0  | 26.4  | 39.6  |
| 58      | 72.9  | 55.4  | 83.0  |

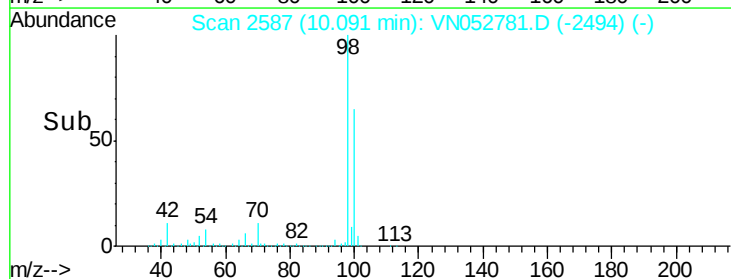
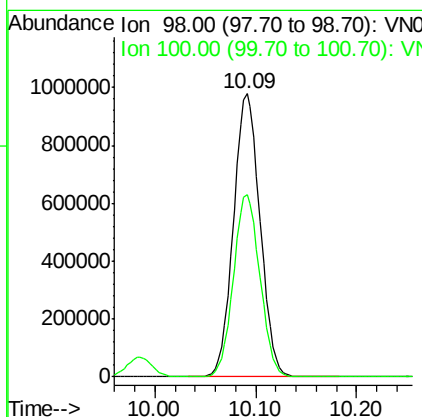
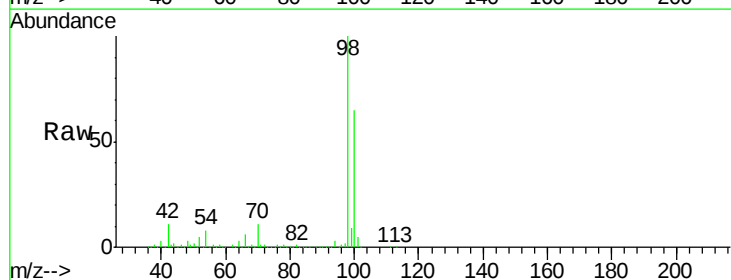
Manual Integrations  
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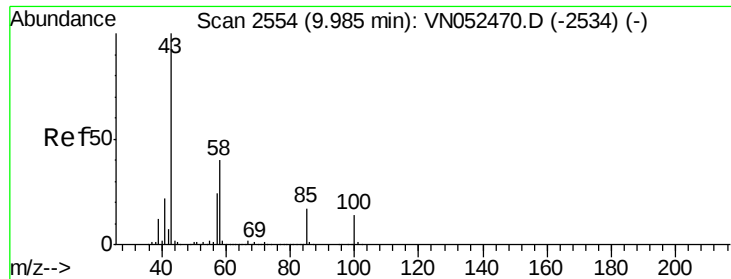
MMDadoda  
12/11/2018 12:47:05 PM



#50  
Toluene-d8  
Concen: 423.357 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | 98    | Resp  | 1788559 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 98      | 100   |       |         |
| 100     | 64.0  | 51.3  | 76.9    |





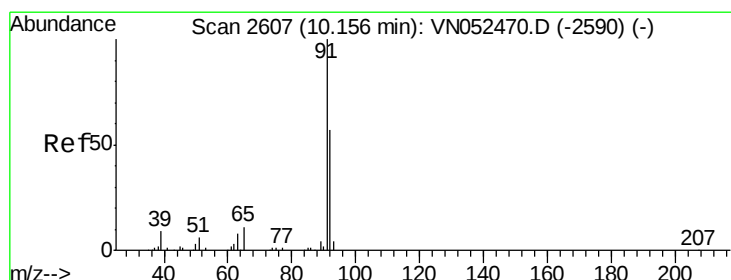
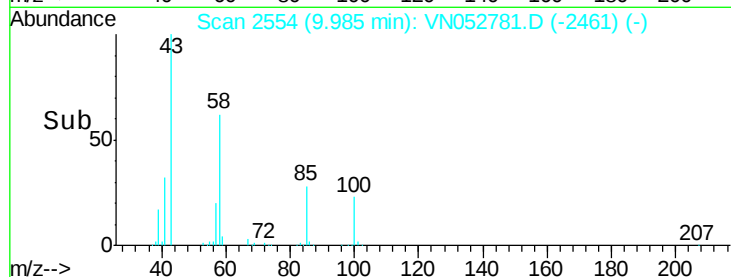
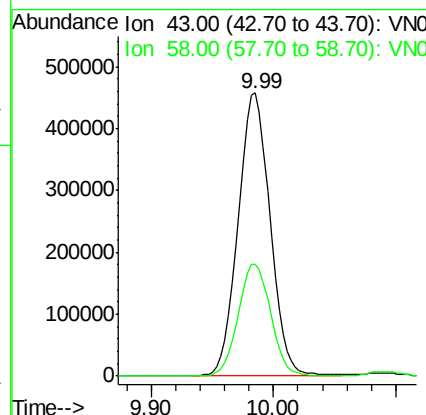
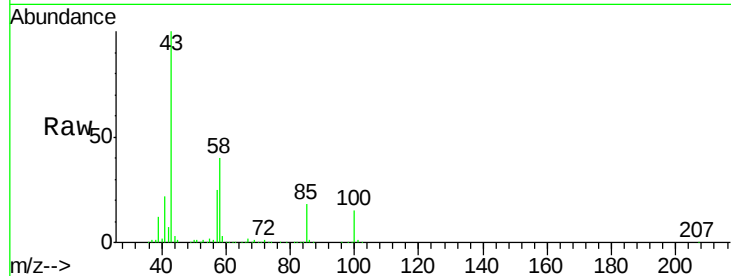
#51  
 4-Methyl-2-Pentanone  
 Concen: 100.742 ug/l  
 RT: 9.99 min Scan# 2554  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 40.2  | 31.5  | 47.3  |

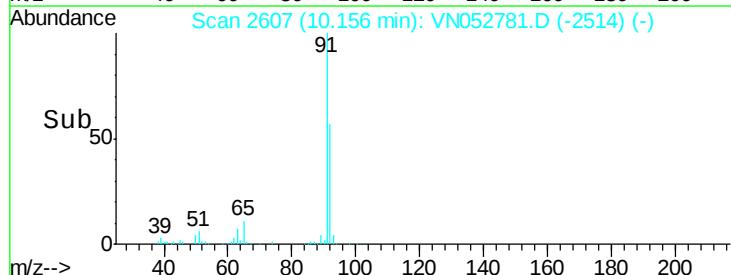
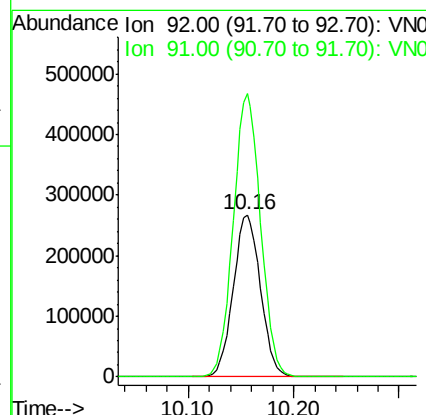
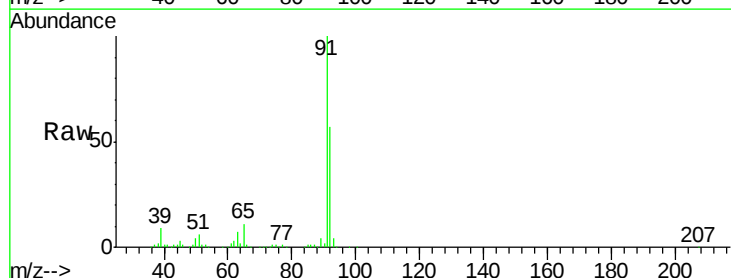
Manual Integrations  
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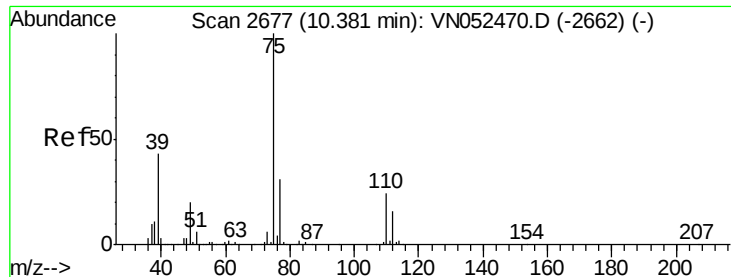
MMDadoda  
 12/11/2018 12:47:05 PM



#52  
 Toluene  
 Concen: 18.902 ug/l  
 RT: 10.16 min Scan# 2607  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 175.2 | 141.0 | 211.4 |





#53

t-1,3-Dichloropropene

Concen: 18.352 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 75 Resp: 239419

Ion Ratio Lower Upper

75 100

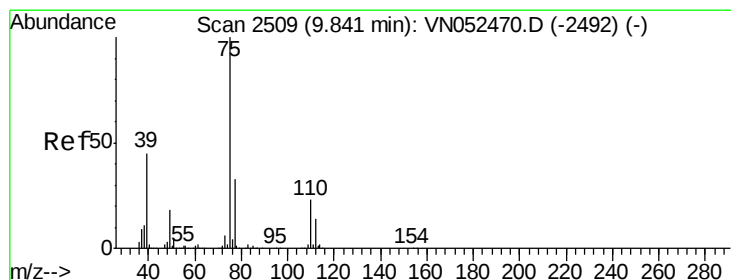
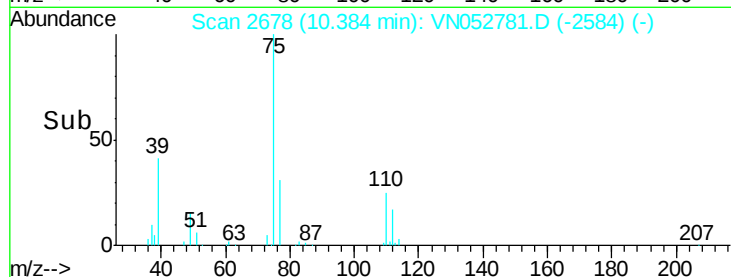
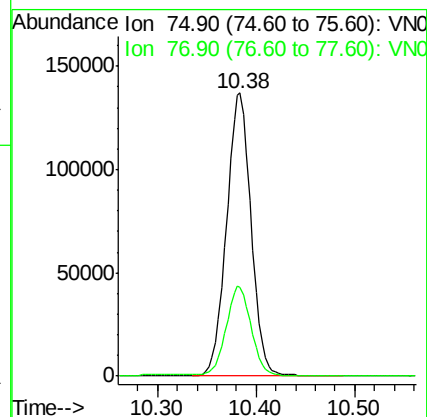
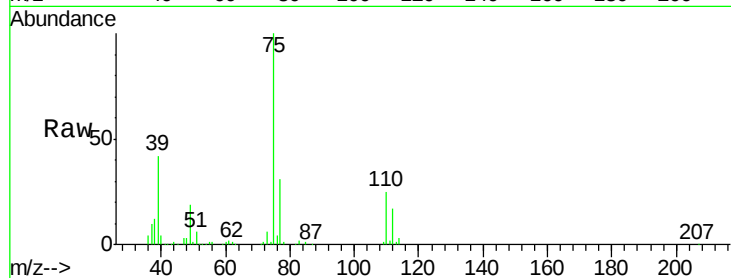
77 31.2 25.0 37.4

Manual Integrations

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12/11/2018 12:47:05 PM



#54

cis-1,3-Dichloropropene

Concen: 18.379 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

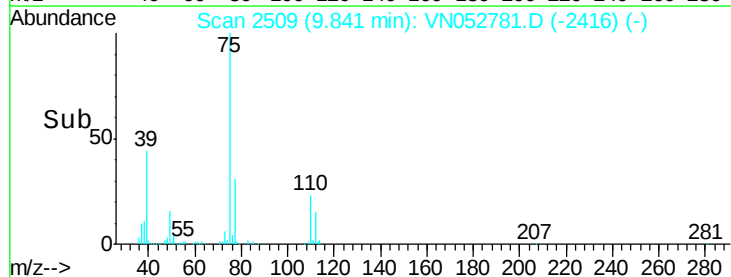
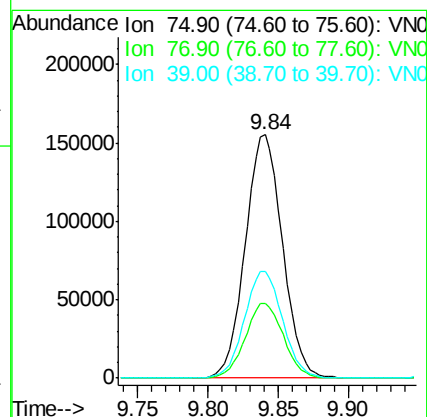
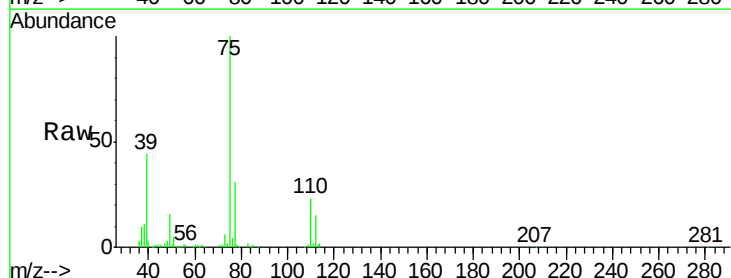
Tgt Ion: 75 Resp: 287337

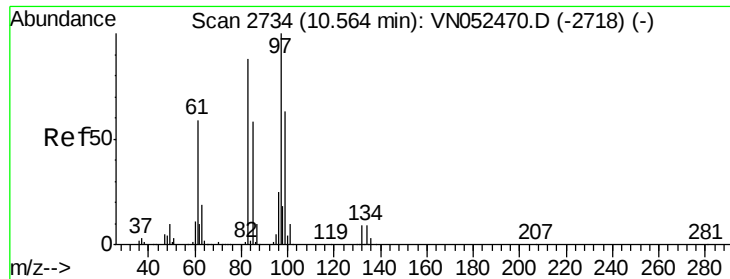
Ion Ratio Lower Upper

75 100

77 30.7 26.2 39.2

39 43.8 36.0 54.0





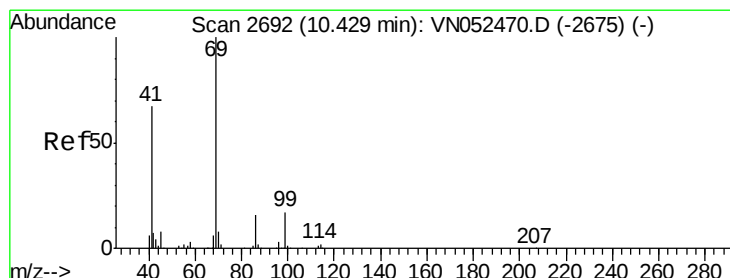
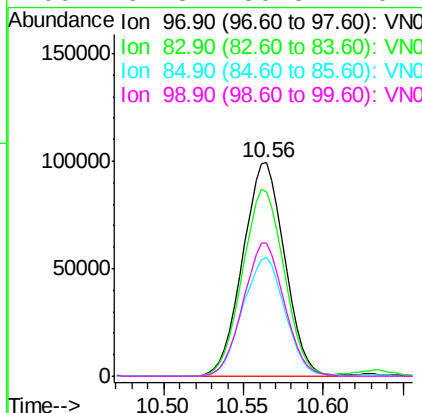
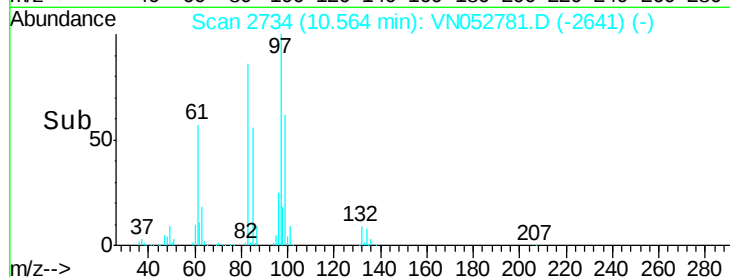
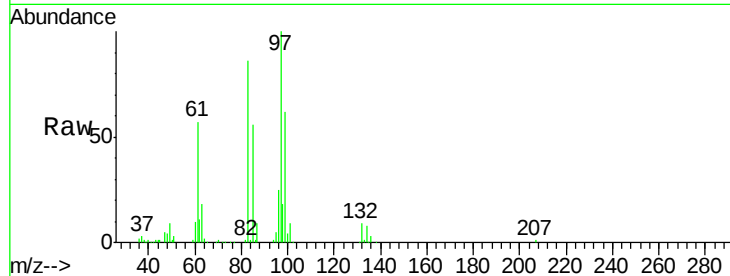
#55  
 1,1,2-Trichloroethane  
 Concen: 20.162 ug/l  
 RT: 10.56 min Scan# 2734  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.1  | 70.7  | 106.1 |
| 85      | 55.8  | 46.1  | 69.1  |
| 99      | 62.3  | 50.8  | 76.2  |

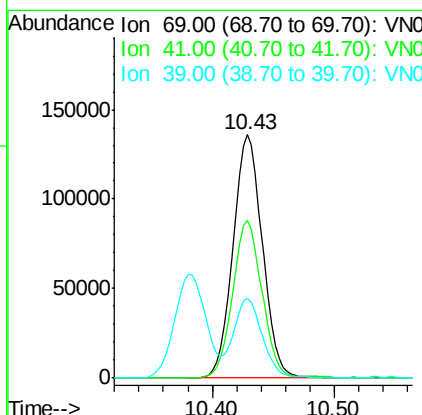
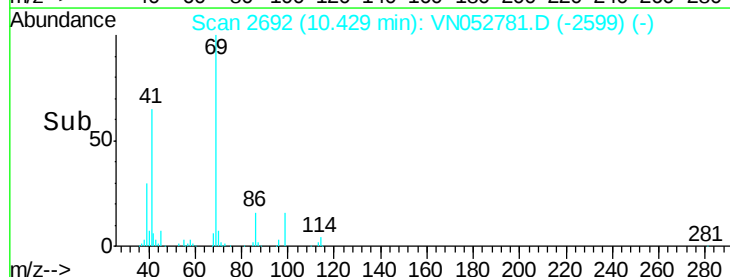
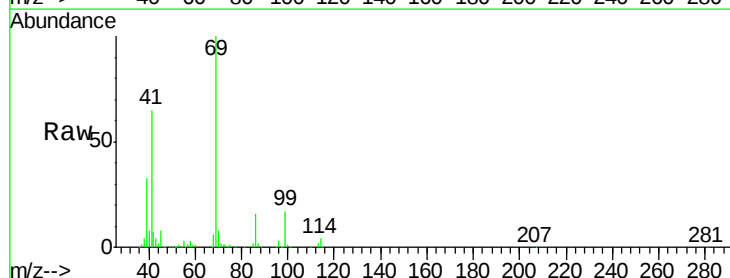
Manual Integrations  
 APPROVED

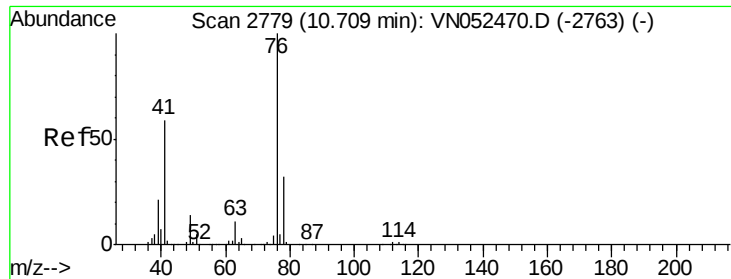
MMDadoda  
 12/11/2018 12:47:05 PM



#56  
 Ethyl methacrylate  
 Concen: 20.176 ug/l  
 RT: 10.43 min Scan# 2692  
 Delta R.T. 0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 63.5  | 52.6  | 79.0  |
| 39      | 31.9  | 25.9  | 38.9  |





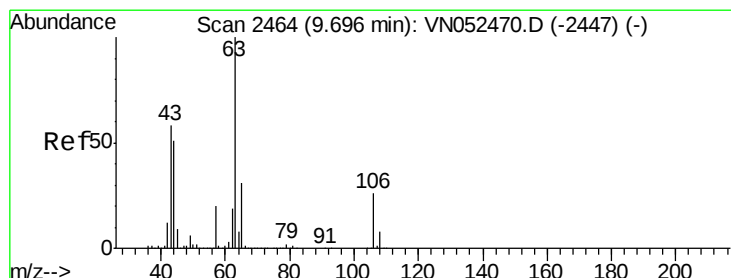
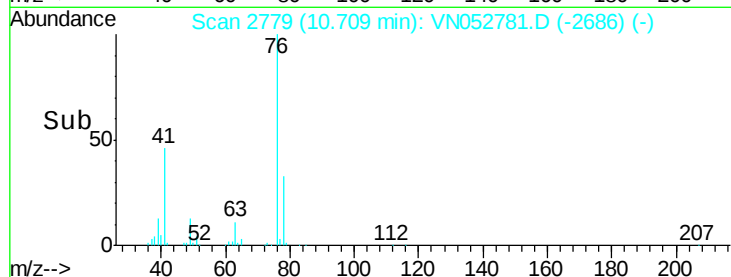
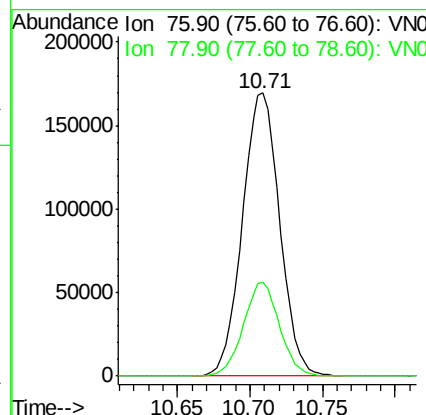
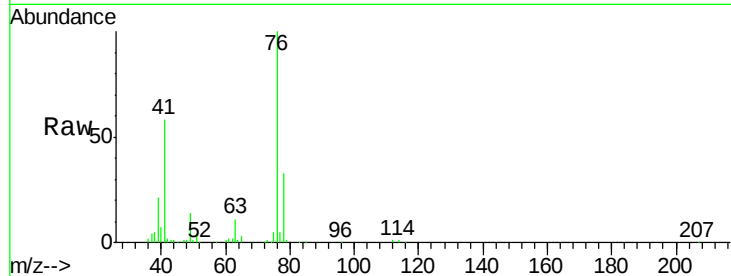
#57  
 1,3-Dichloropropane  
 Concen: 19.380 ug/l  
 RT: 10.71 min Scan# 2779  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.1  | 25.6  | 38.4  |

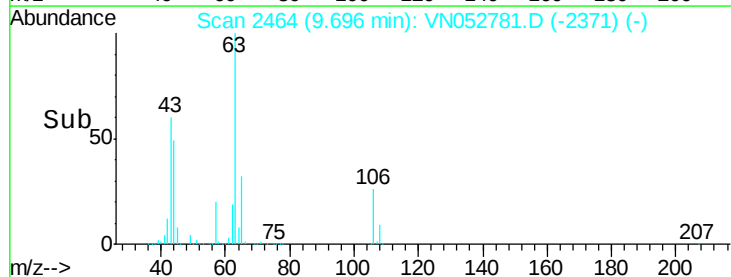
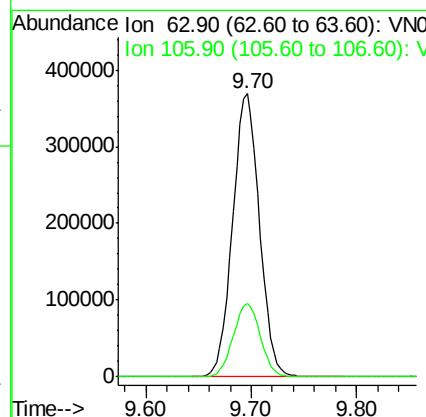
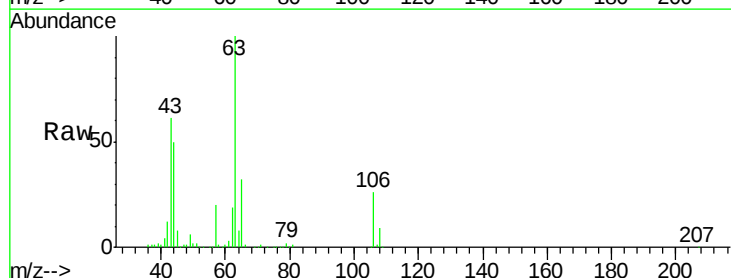
Manual Integrations  
 APPROVED

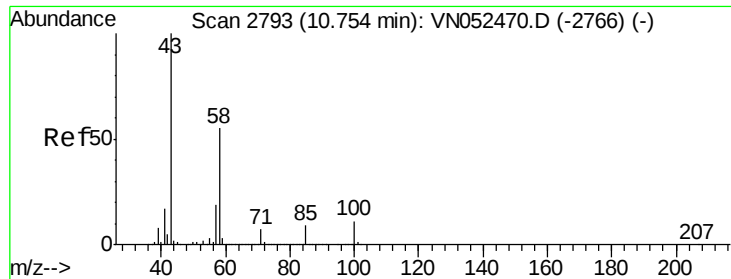
MMDadoda  
 12/11/2018 12:47:05 PM



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 100.769 ug/l  
 RT: 9.70 min Scan# 2464  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 106     | 26.2  | 20.6  | 30.8  |





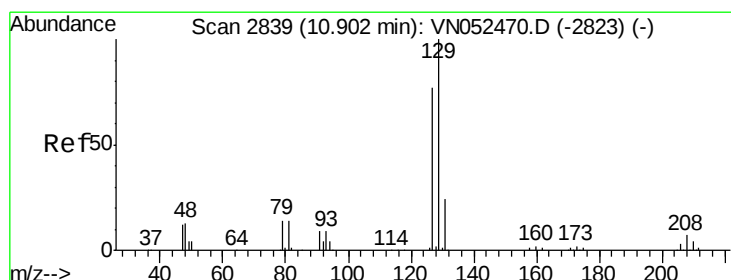
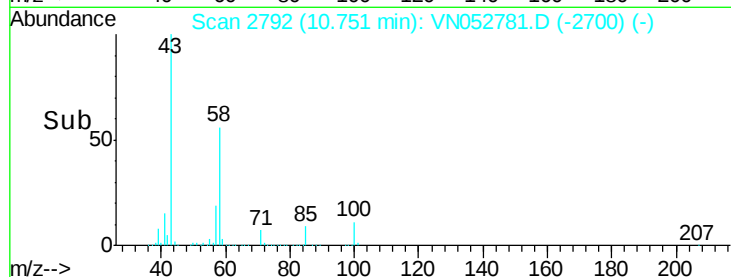
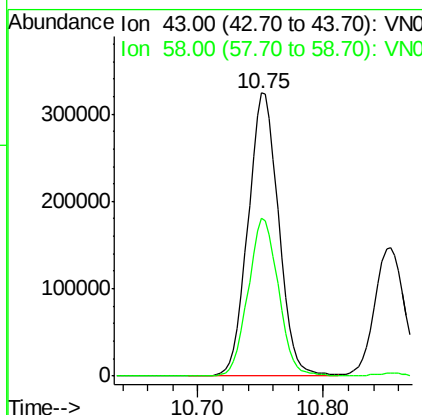
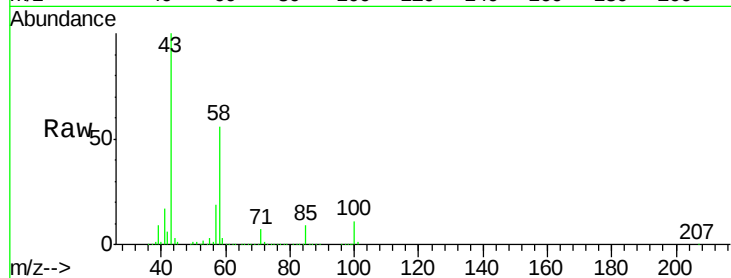
#59  
2-Hexanone  
Concen: 99.212 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

Tot Ion: 43 Resp: 548700  
Ion Ratio Lower Upper  
43 100  
58 55.5 27.4 82.0

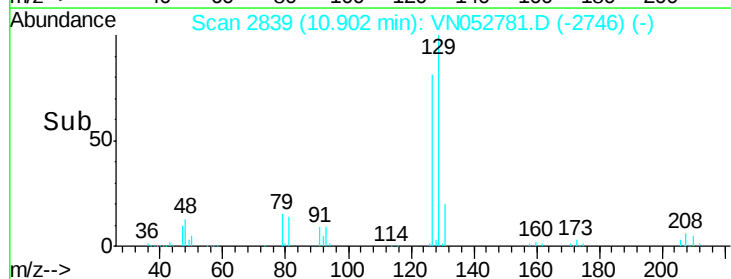
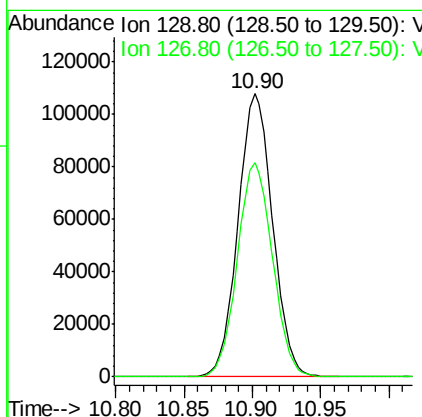
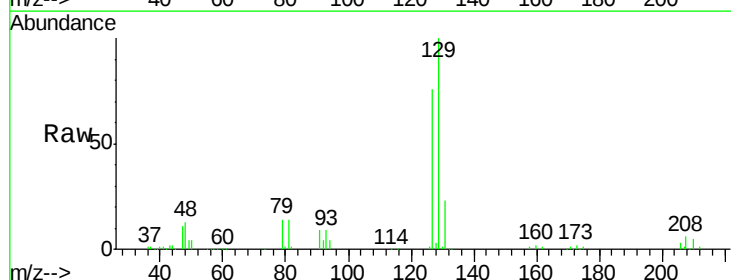
Manual Integrations  
APPROVED

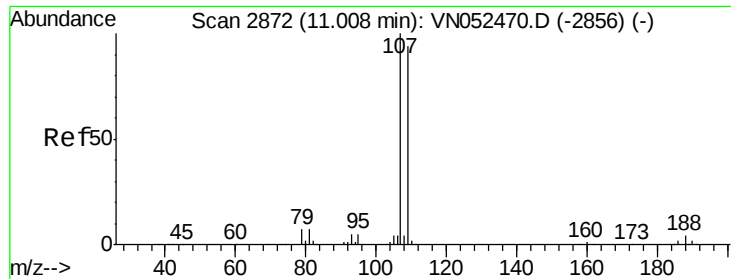
MMDadoda  
12/11/2018 12:47:05 PM



#60  
Dibromochloromethane  
Concen: 19.753 ug/l  
RT: 10.90 min Scan# 2839  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Tgt Ion: 129 Resp: 190016  
Ion Ratio Lower Upper  
129 100  
127 77.0 38.9 116.6





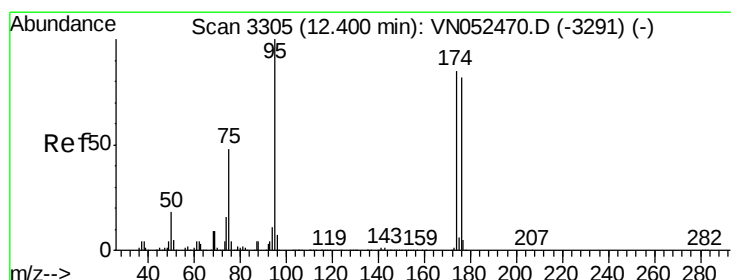
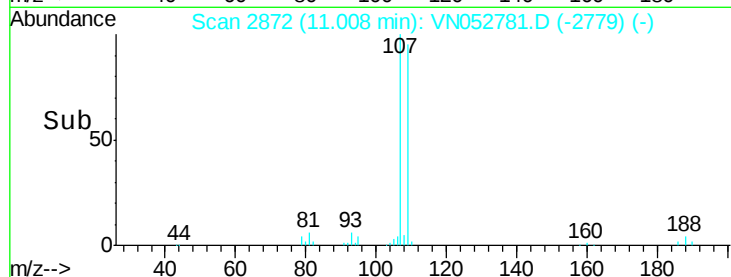
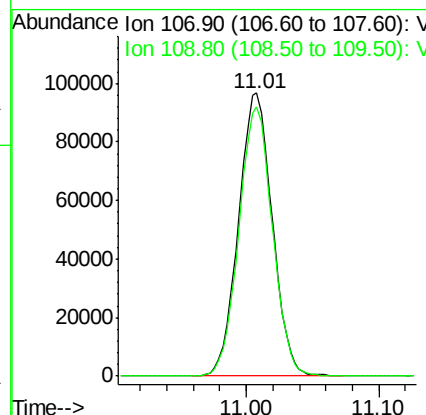
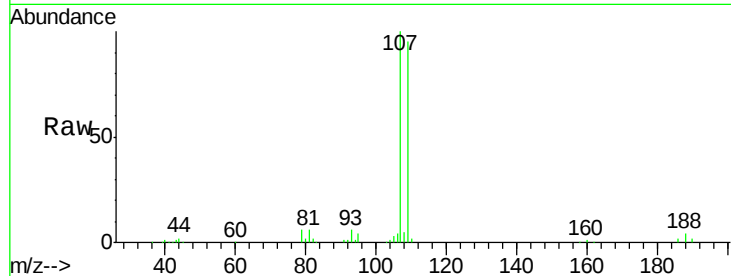
#61  
 1,2-Dibromoethane  
 Concen: 19.434 ug/l  
 RT: 11.01 min Scan# 2872  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.8  | 75.6  | 113.4 |

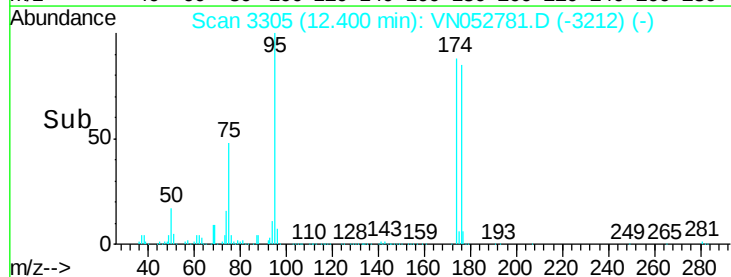
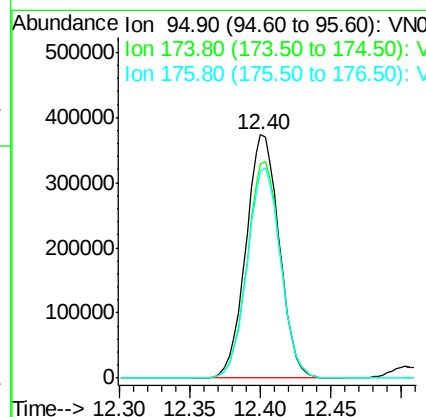
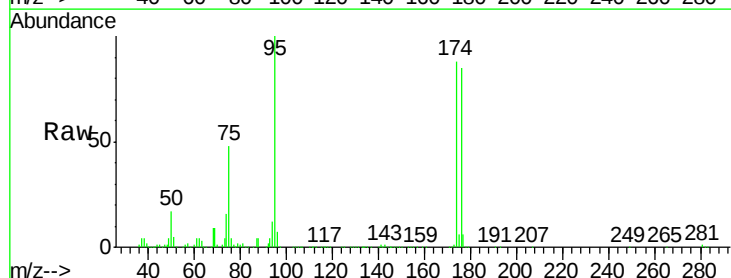
Manual Integrations  
 APPROVED

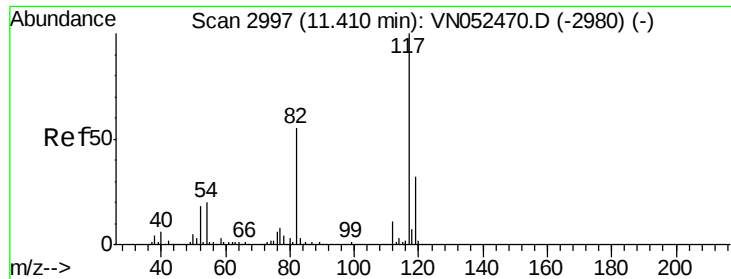
MMDadoda  
 12/11/2018 12:47:05 PM



#62  
 4-Bromofluorobenzene  
 Concen: 19.434 ug/l  
 RT: 12.40 min Scan# 3305  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 88.9  | 0.0   | 173.0 |
| 176     | 86.5  | 0.0   | 166.2 |





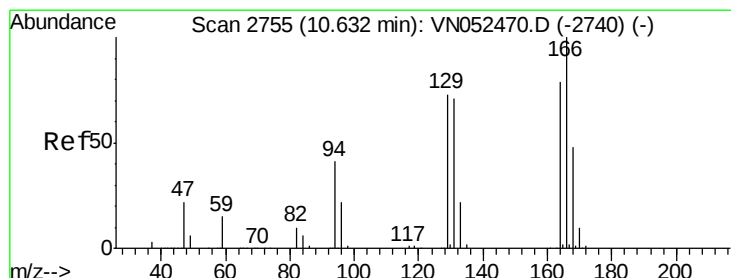
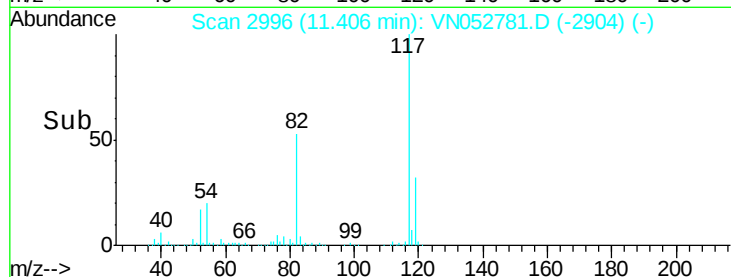
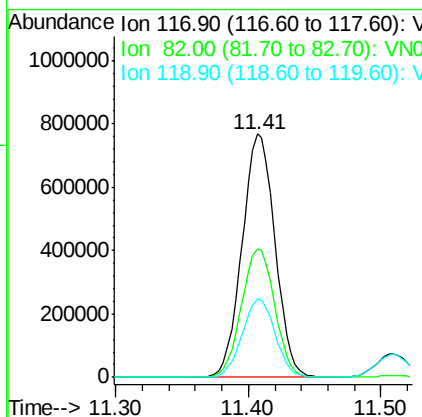
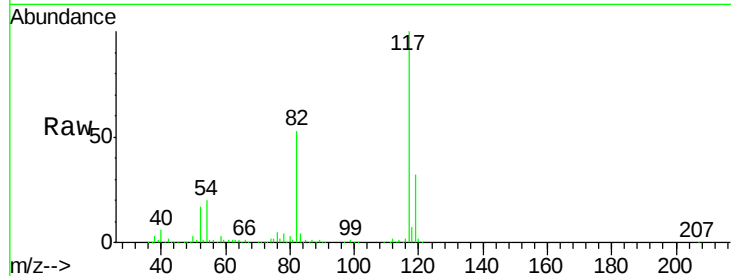
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

Tot Ion:117 Resp: 1323449  
Ion Ratio Lower Upper  
117 100  
82 52.9 43.6 65.4  
119 32.1 25.4 38.2

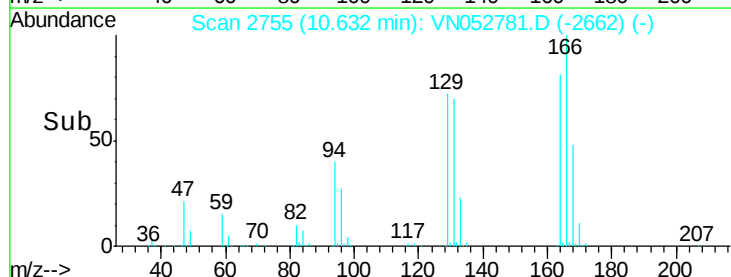
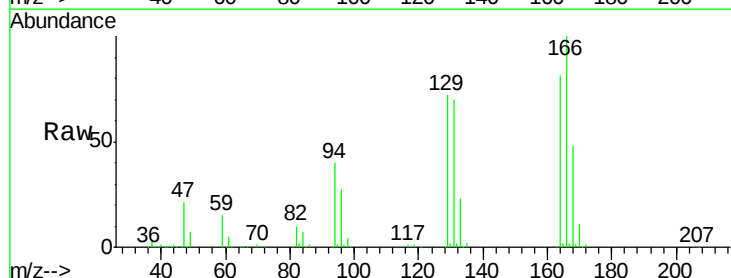
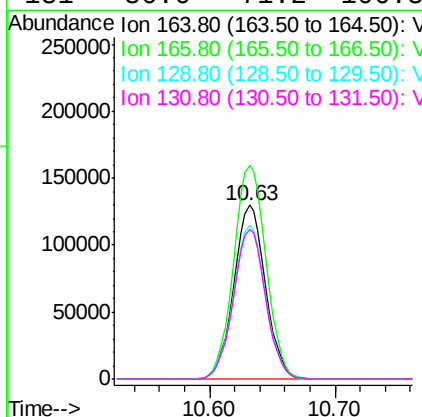
Manual Integrations  
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#64  
Tetrachloroethene  
Concen: 22.101 ug/l  
RT: 10.63 min Scan# 2755  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Tgt Ion:164 Resp: 226779  
Ion Ratio Lower Upper  
164 100  
166 123.0 101.0 151.4  
129 88.4 73.8 110.6  
131 86.6 71.2 106.8





#65

Chlorobenzene

Concen: 19.345 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion:112 Resp: 527916

Ion Ratio Lower Upper

112 100

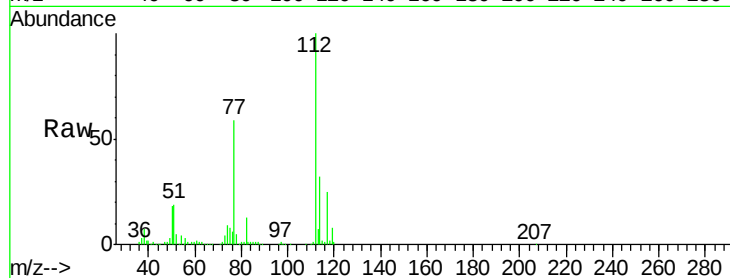
114 31.7 25.8 38.6

Manual Integrations

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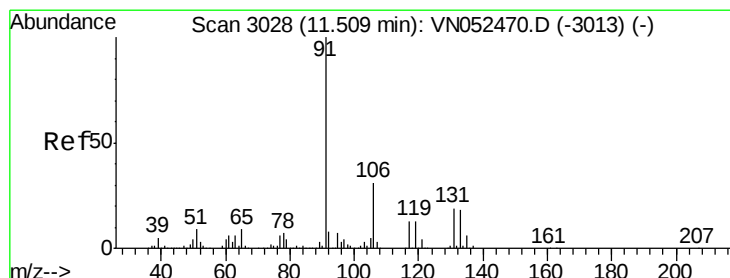
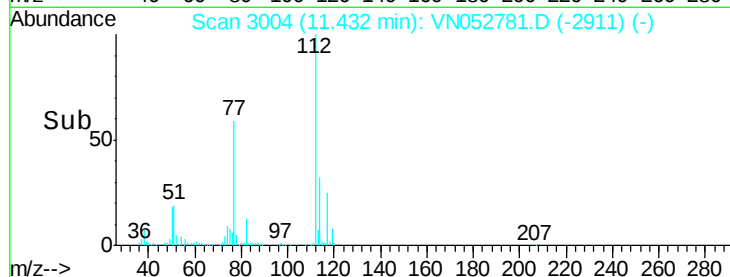
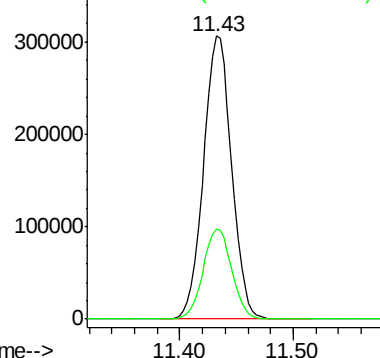
MMDadoda

12/11/2018 12:47:05 PM



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: 19.945 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

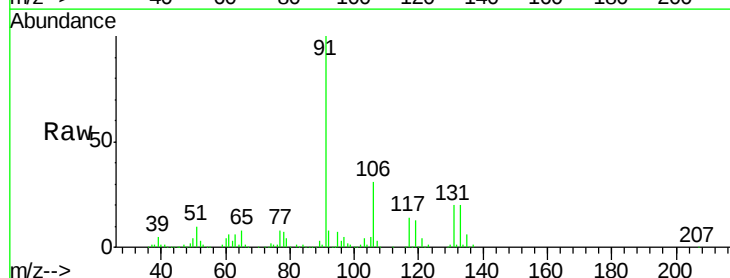
Tgt Ion:131 Resp: 189253

Ion Ratio Lower Upper

131 100

133 95.9 47.6 142.8

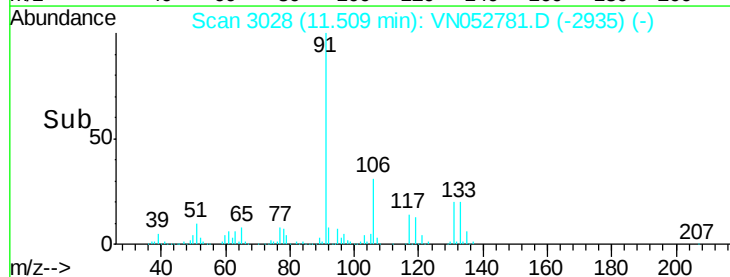
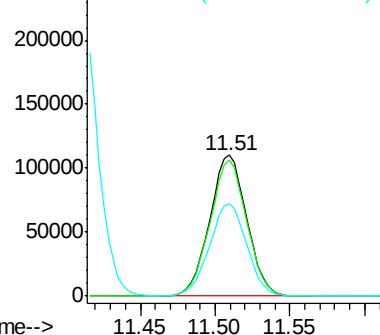
119 66.1 33.2 99.6

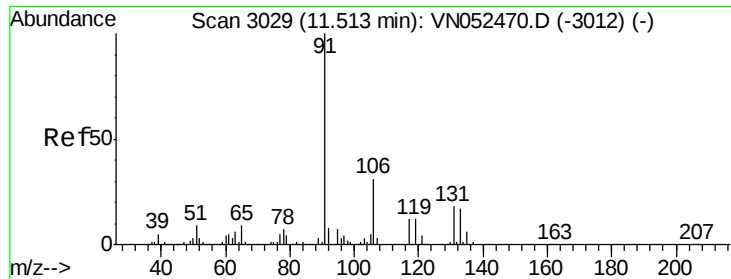


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





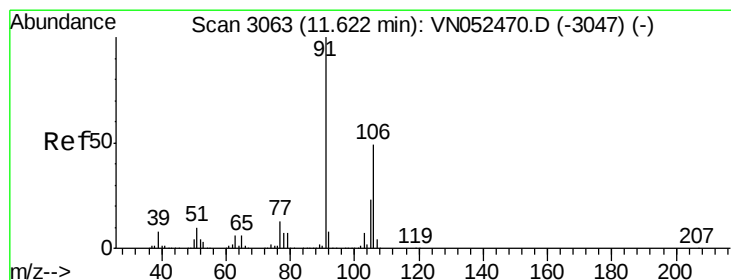
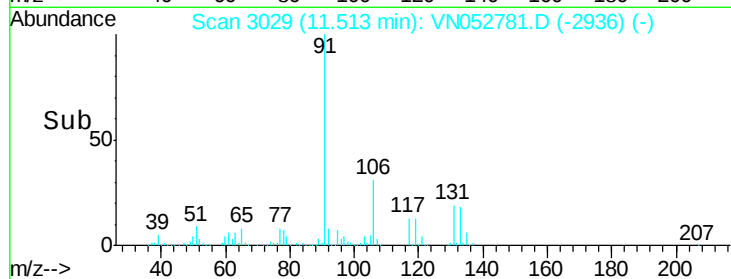
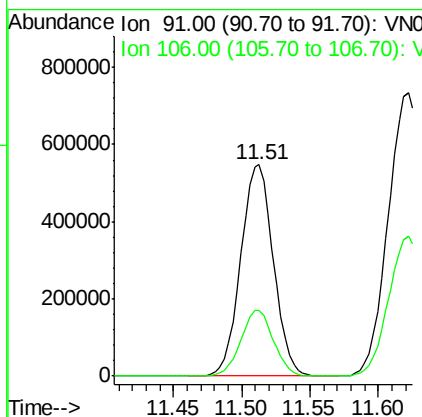
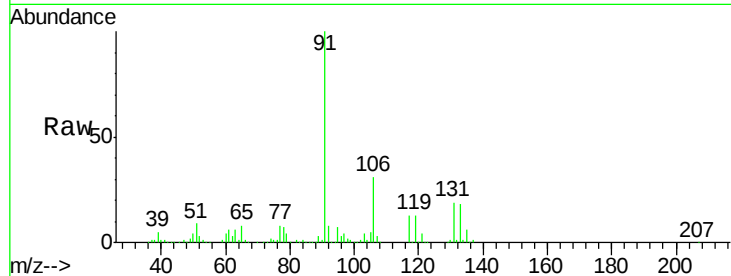
#67  
Ethyl Benzene  
Concen: 19.001 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.2  | 24.9  | 37.3  |

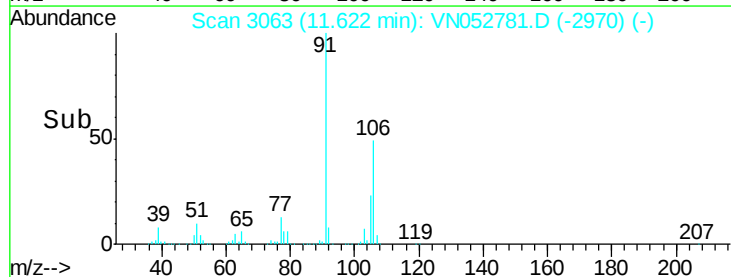
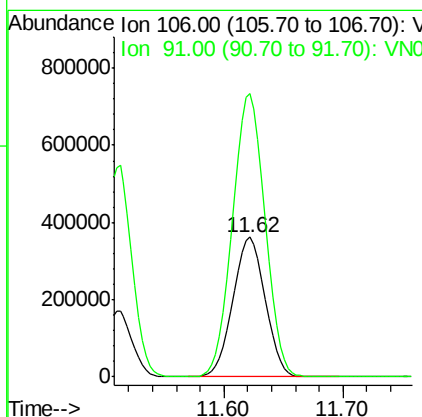
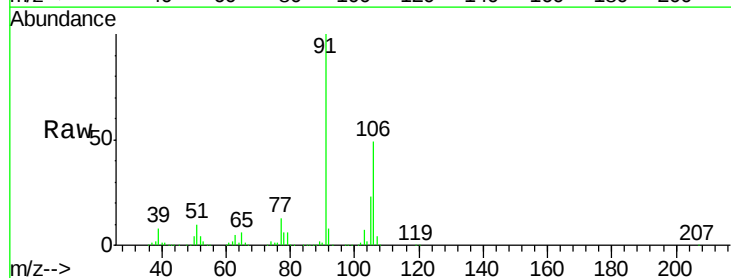
Manual Integrations  
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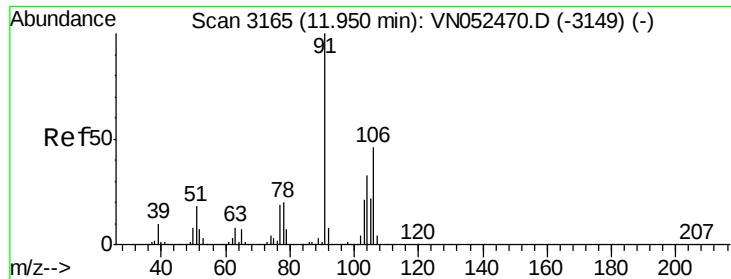
MMDadoda  
12/11/2018 12:47:05 PM



#68  
m/p-Xylenes  
Concen: 38.216 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 204.0 | 163.2 | 244.8 |





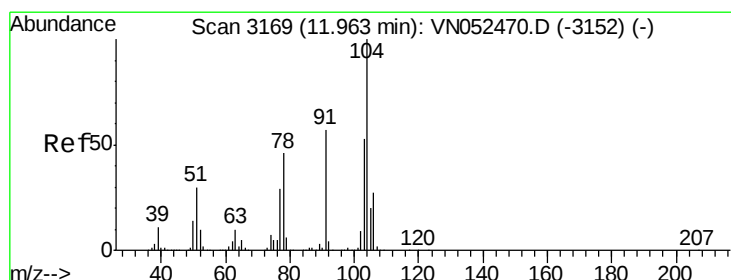
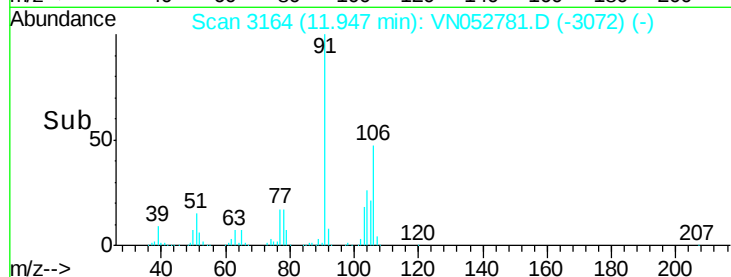
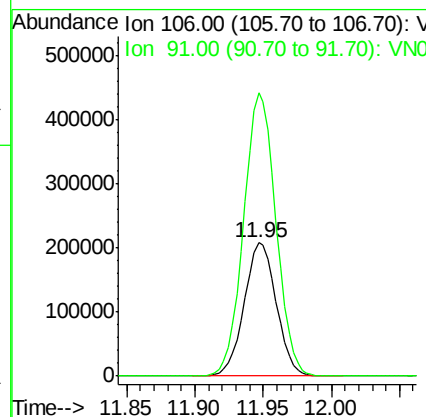
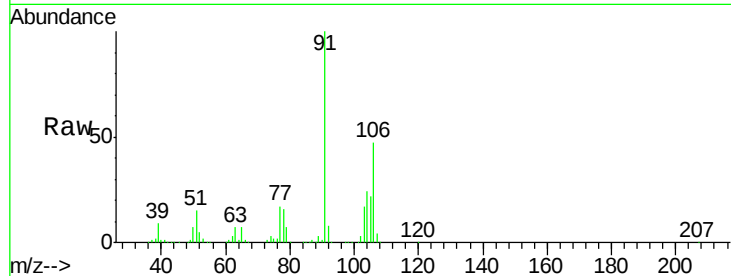
#69  
o-Xylene  
Concen: 19.721 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

Tot Ion:106 Resp: 340700  
Ion Ratio Lower Upper  
106 100  
91 213.1 107.7 323.1

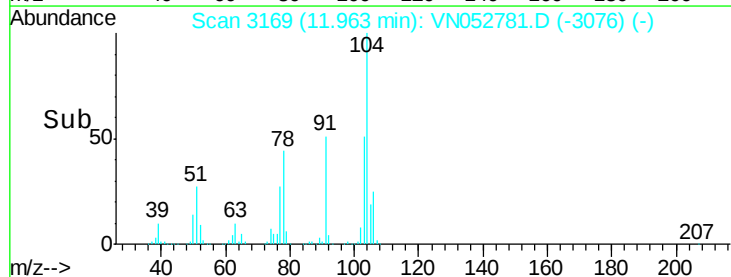
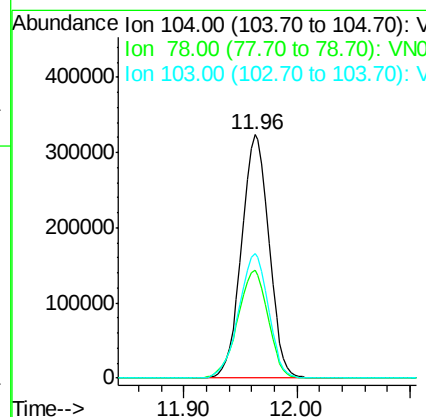
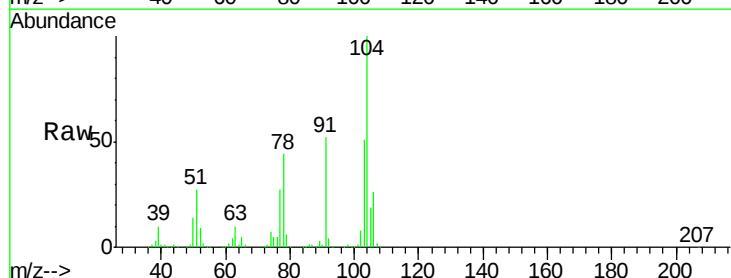
Manual Integrations  
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12/11/2018 12:47:05 PM



#70  
Styrene  
Concen: 19.926 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Tgt Ion:104 Resp: 548286  
Ion Ratio Lower Upper  
104 100  
78 49.0 39.4 59.2  
103 55.3 44.9 67.3





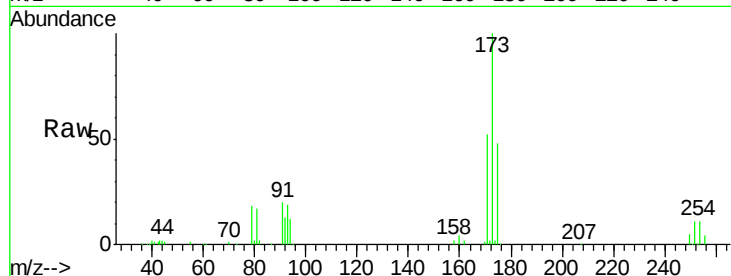
#71  
Bromoform  
Concen: 20.087 ug/l  
RT: 12.13 min Scan# 3220  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

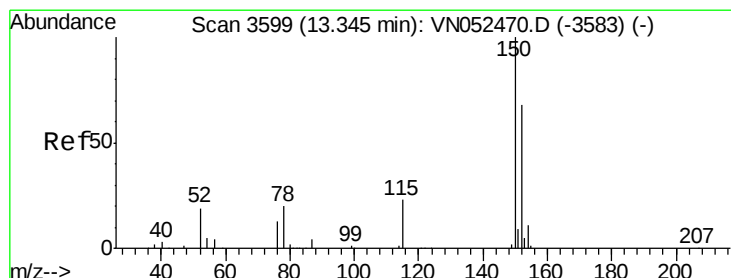
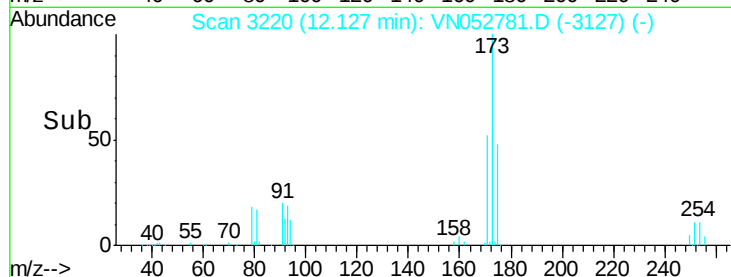
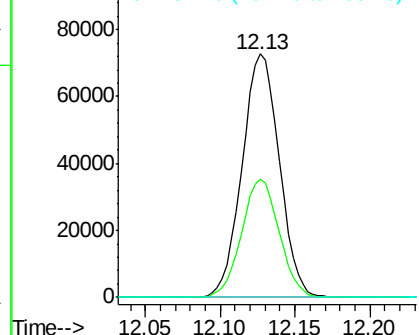
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.9  | 24.4  | 73.2  |
| 254     | 0.0   | 0.1   | 0.1#  |

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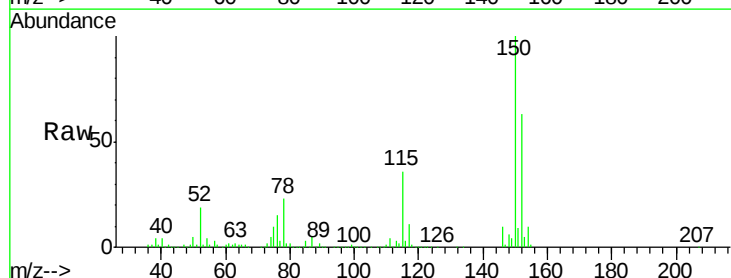


Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V

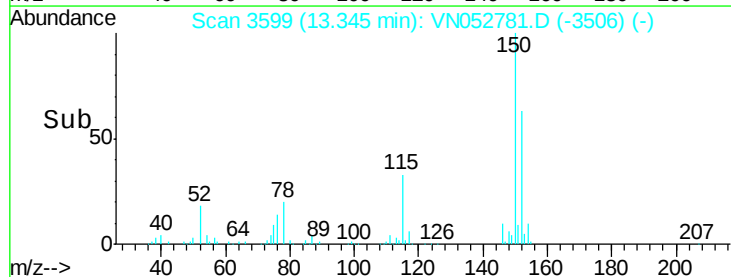
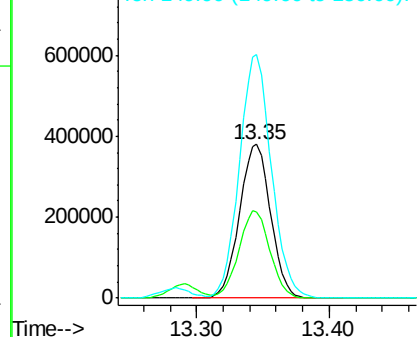


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.8  | 28.4  | 85.2  |
| 150     | 163.3 | 0.0   | 346.0 |



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: 18.624 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 105 Resp: 903743

Ion Ratio Lower Upper

105 100

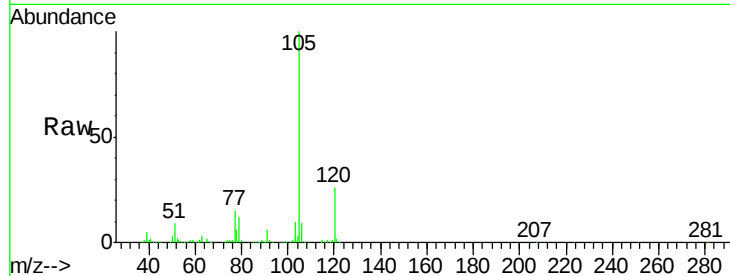
120 26.2 13.1 39.3

Manual Integrations

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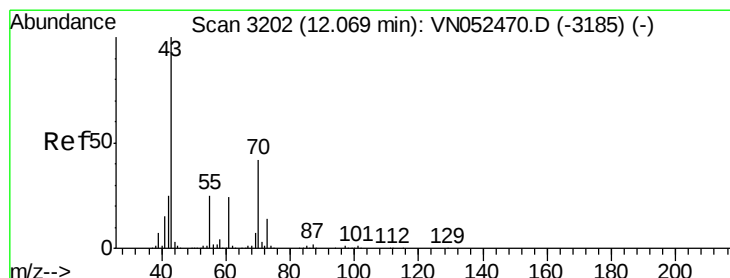
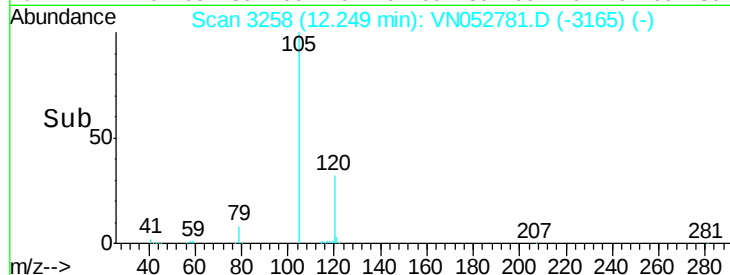
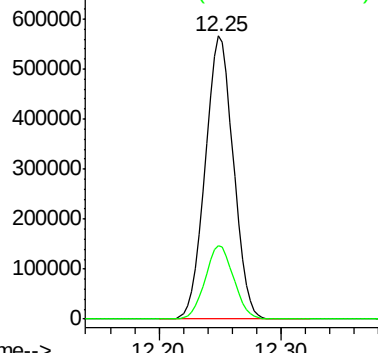
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.663 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Tgt Ion: 43 Resp: 253321

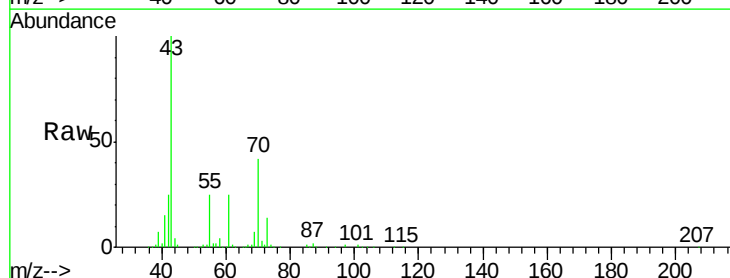
Ion Ratio Lower Upper

43 100

70 43.2 33.8 50.8

55 25.1 20.0 30.0

61 25.5 19.7 29.5

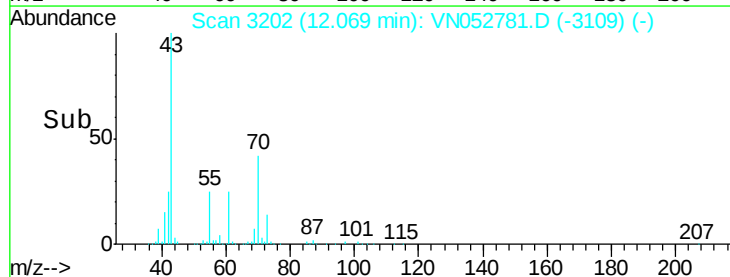
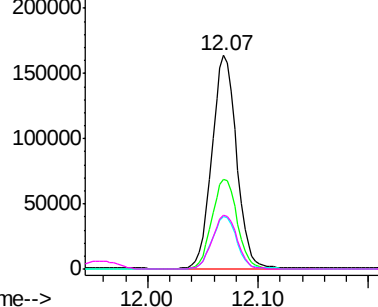


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 18.292 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

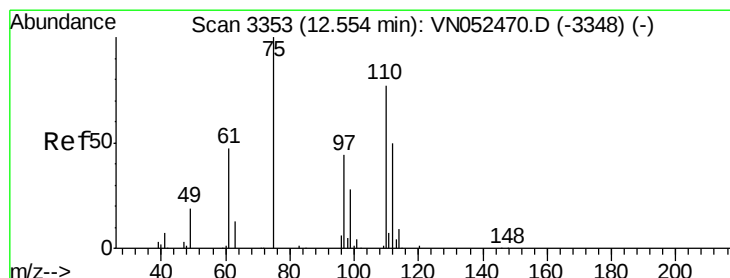
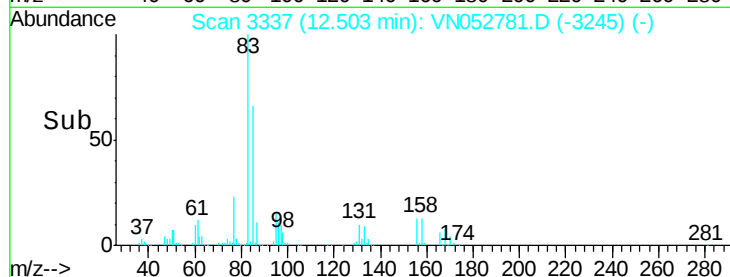
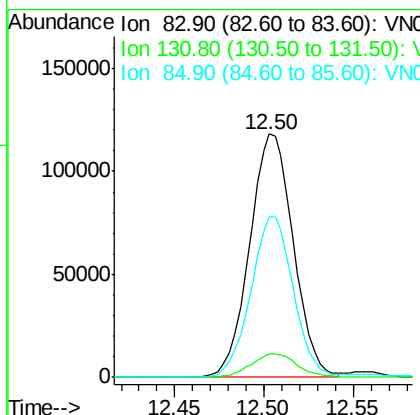
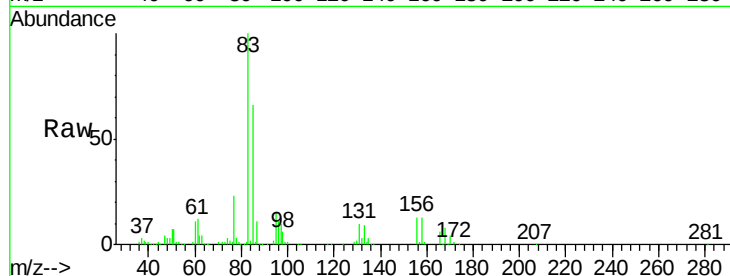
ClientSampleId :

VN1210WBSD03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 201921 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.4  | 5.0   | 15.0   |
| 85        | 64.4  | 31.9  | 95.9   |

Manual Integrations  
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#76

1,2,3-Trichloropropane

Concen: 19.818 ug/l m

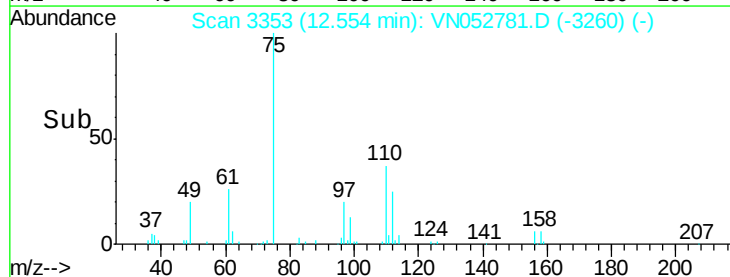
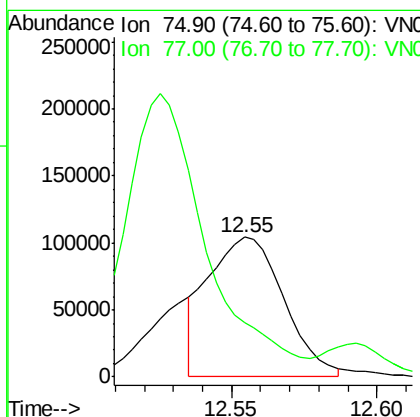
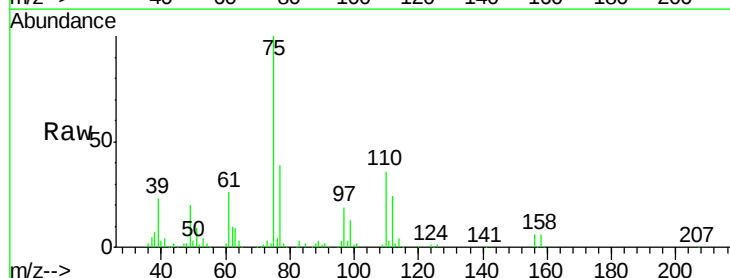
RT: 12.55 min Scan# 3353

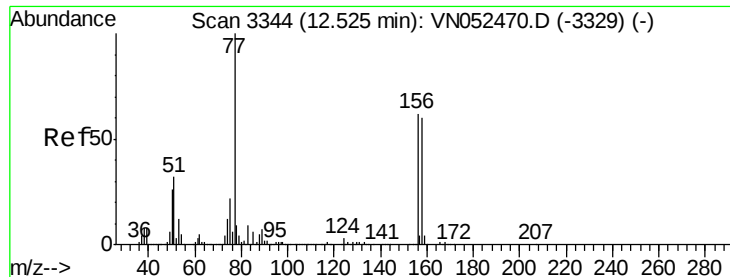
Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 189020 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 0.0   | 0.0   | 0.0    |





#77

Bromobenzene

Concen: 19.159 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

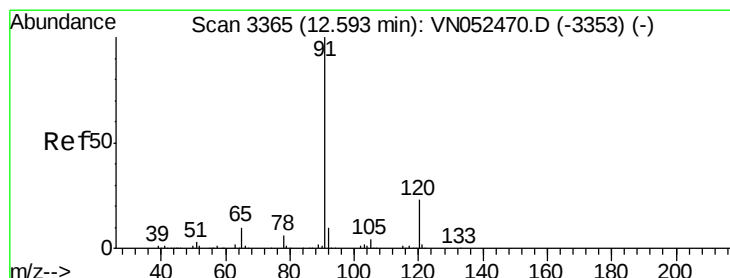
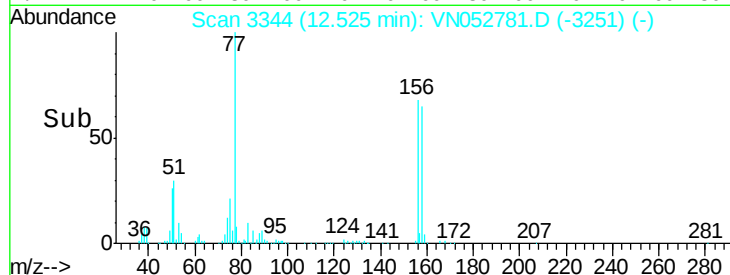
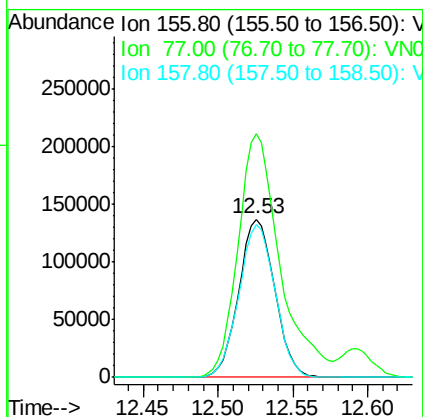
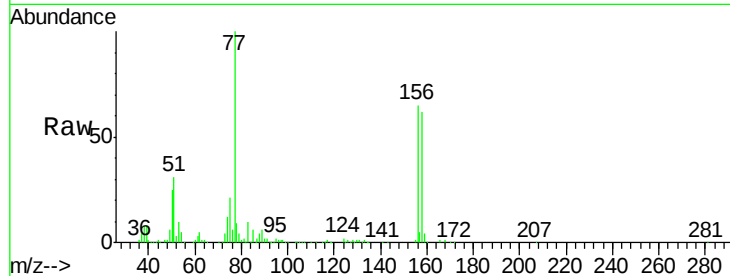
ClientSampleId :

VN1210WBSD03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 156   | Resp: | 229792 |
| Ion Ratio | Lower | Upper |        |
| 156       | 100   |       |        |
| 77        | 180.5 | 93.5  | 280.4  |
| 158       | 97.0  | 48.3  | 144.9  |

Manual Integrations  
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#78

n-propylbenzene

Concen: 18.302 ug/l

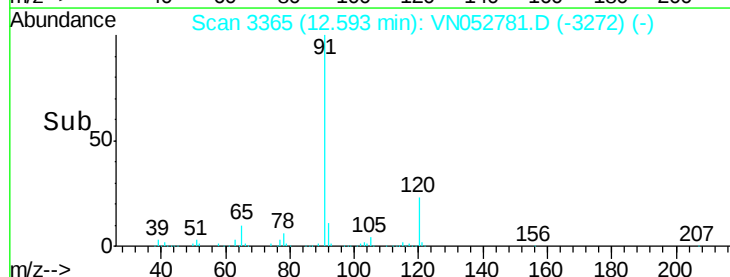
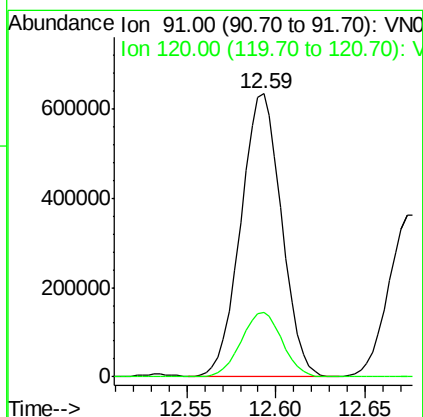
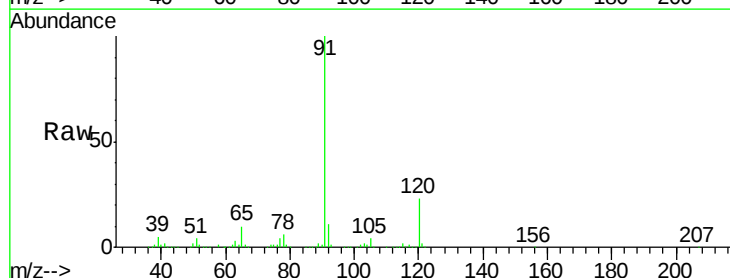
RT: 12.59 min Scan# 3365

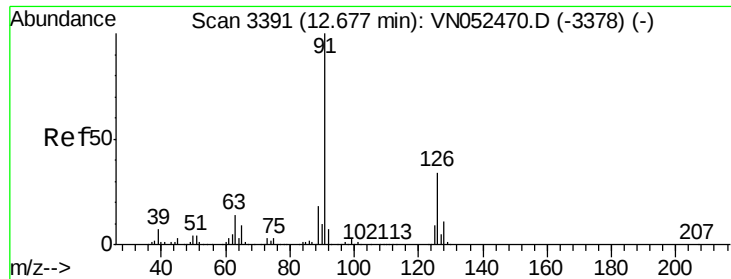
Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1008914 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 120       | 22.9  | 11.3  | 33.9    |





#79

2-Chlorotoluene

Concen: 18.350 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 91 Resp: 602404

Ion Ratio Lower Upper

91 100

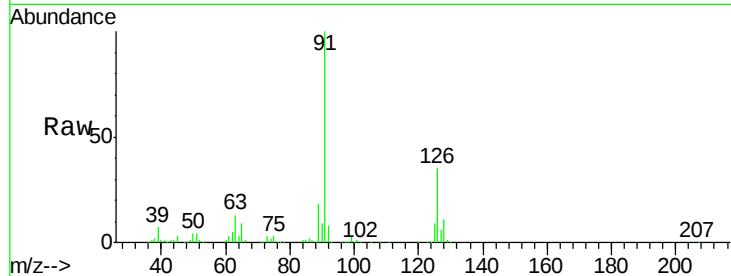
126 35.2 17.2 51.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052781.D (-3391) (-)

Ion 125.90 (125.60 to 126.60): VN052781.D (-3391) (-)

600000

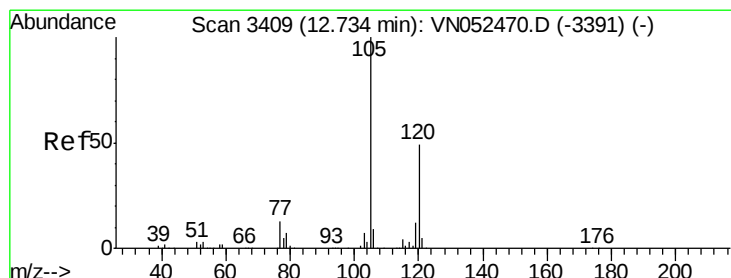
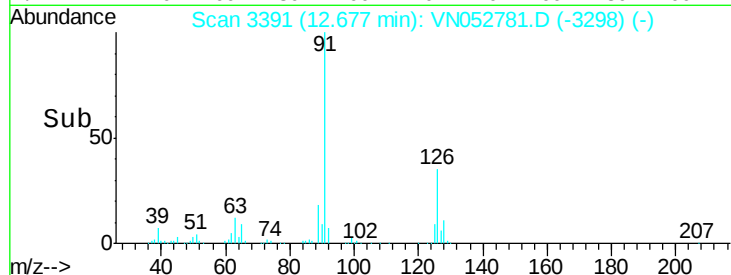
400000

200000

0

12.68

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 18.802 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN052781.D

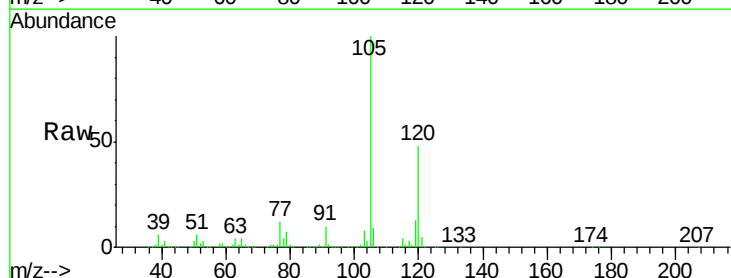
Acq: 11 Dec 2018 4:58

Tgt Ion: 105 Resp: 727667

Ion Ratio Lower Upper

105 100

120 48.5 24.3 73.0



Abundance Ion 105.00 (104.70 to 105.70): VN052781.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN052781.D (-3316) (-)

500000

400000

300000

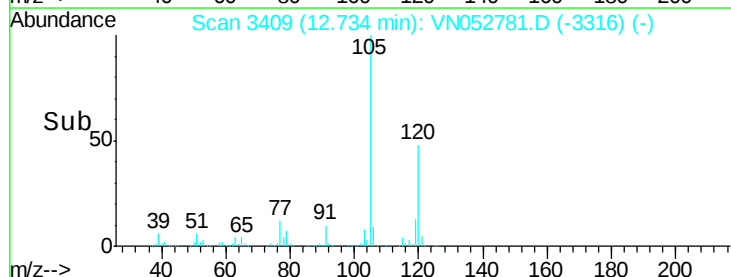
200000

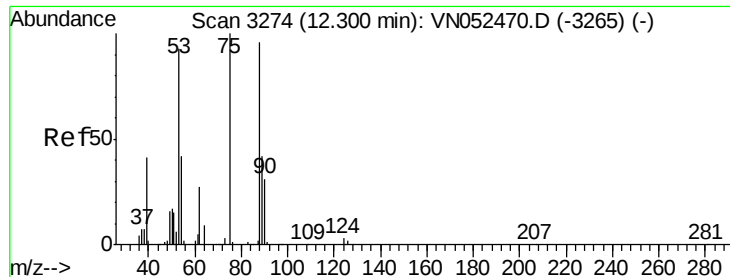
100000

0

12.73

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 16.519 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion: 75 Resp: 47177

Ion Ratio Lower Upper

75 100

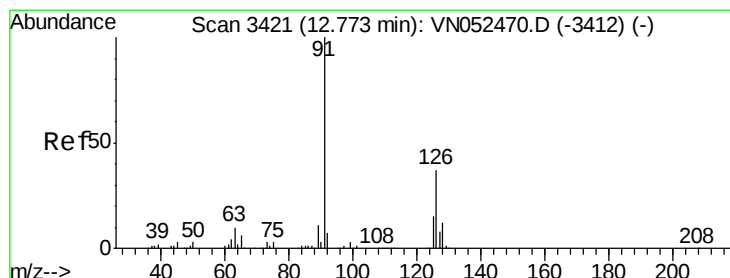
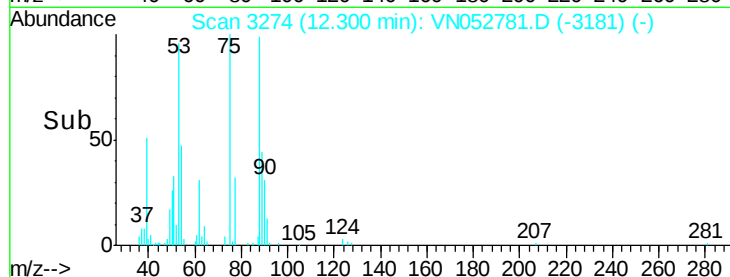
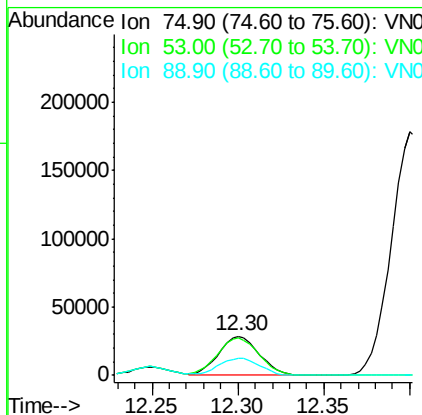
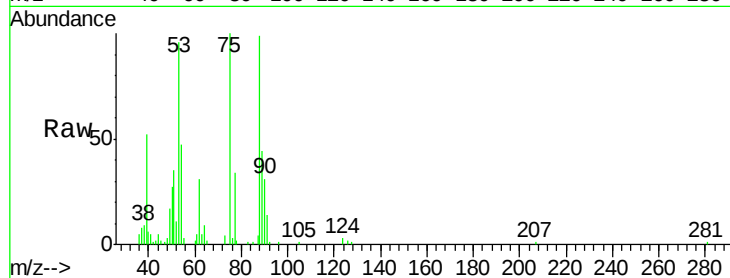
53 98.5 77.4 116.0

89 44.1 35.4 53.2

Manual Integrations  
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#82

4-Chlorotoluene

Concen: 18.585 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052781.D

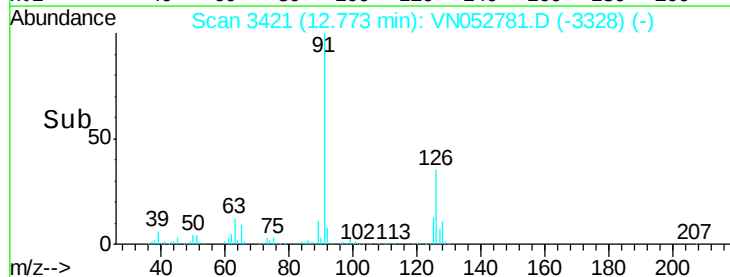
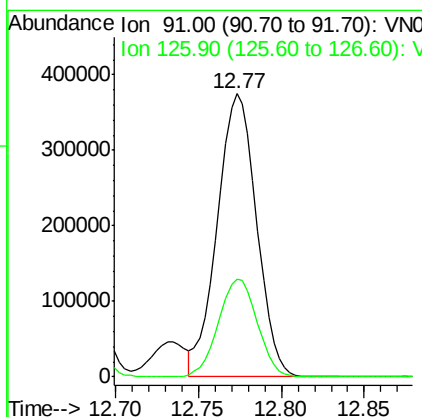
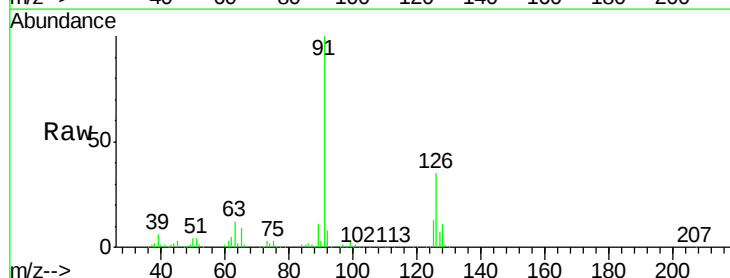
Acq: 11 Dec 2018 4:58

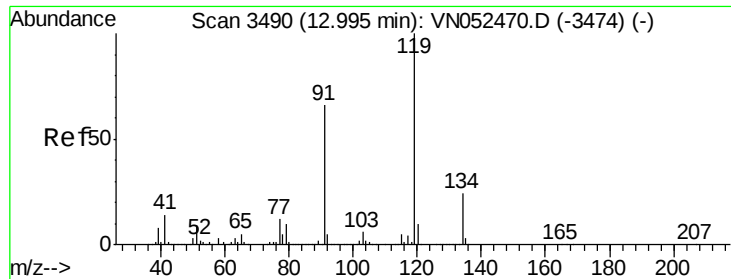
Tgt Ion: 91 Resp: 614900

Ion Ratio Lower Upper

91 100

126 34.4 16.9 50.6





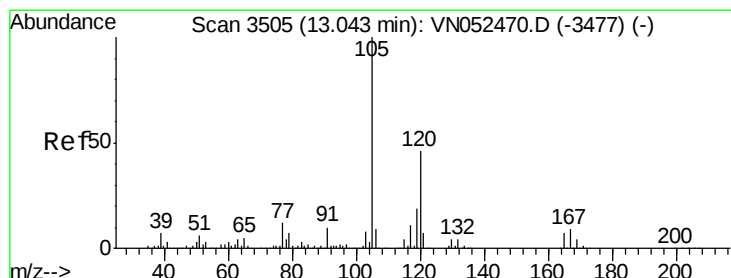
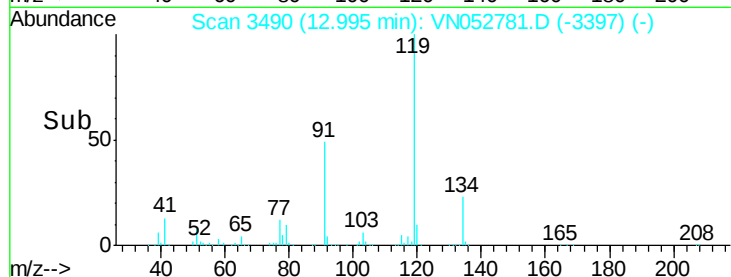
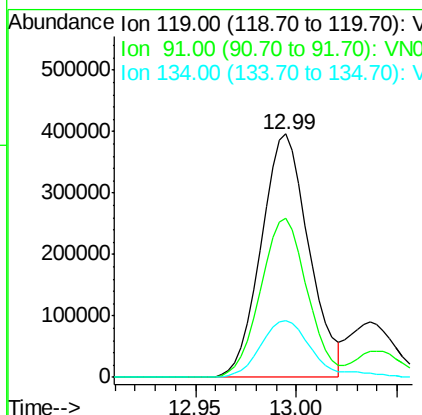
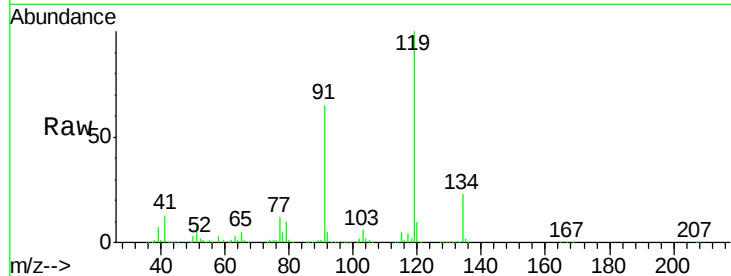
#83  
 tert-Butylbenzene  
 Concen: 18.895 ug/l  
 RT: 12.99 min Scan# 3490  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 651913 |       |       |
| 91      | 64.3  |        | 32.3  | 96.9  |
| 134     | 25.3  |        | 13.0  | 38.9  |

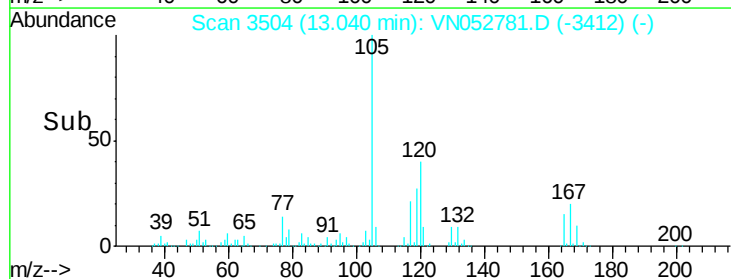
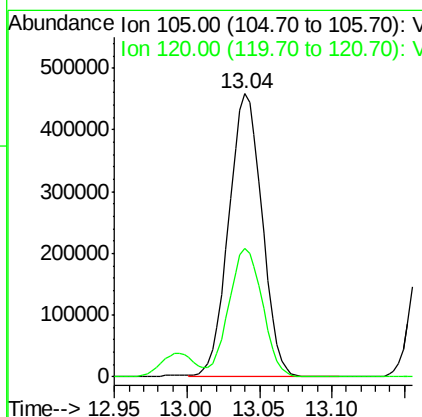
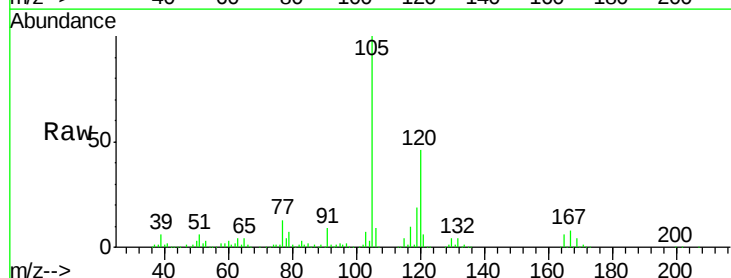
Manual Integrations  
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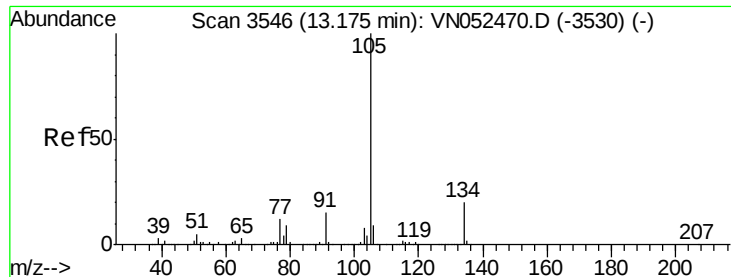
MMDadoda  
 12/11/2018 12:47:05 PM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 18.830 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 730317 |       |       |
| 120     | 46.0  |        | 22.8  | 68.4  |





#85

sec-Butylbenzene

Concen: 18.418 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

ClientSampleId :

VN1210WBSD03

Tot Ion:105 Resp: 865499

Ion Ratio Lower Upper

105 100

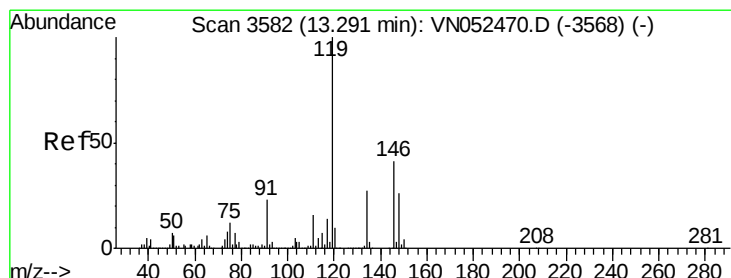
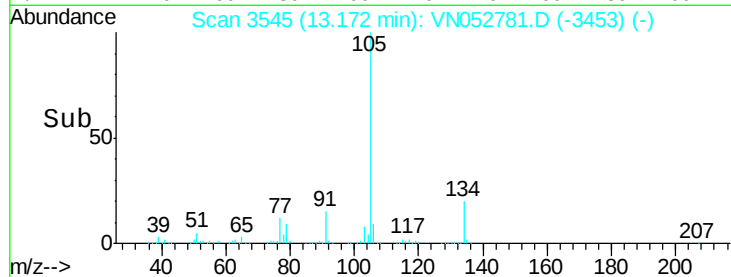
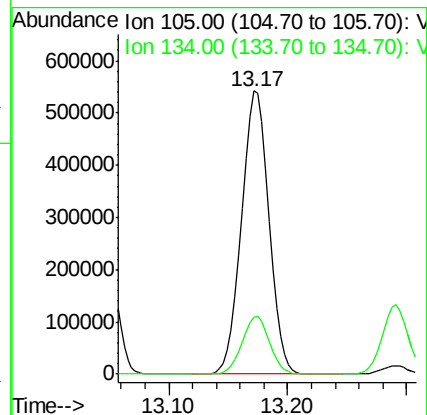
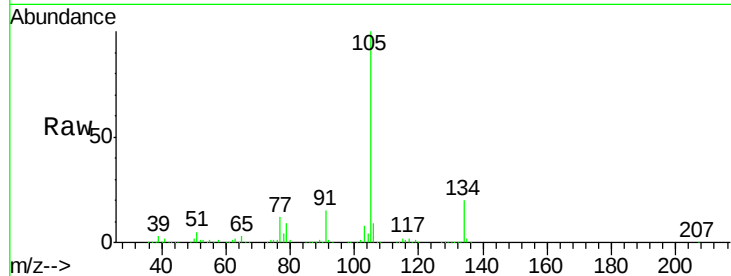
134 20.3 9.9 29.7

Manual Integrations

APPROVED

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#86

p-Isopropyltoluene

Concen: 18.587 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

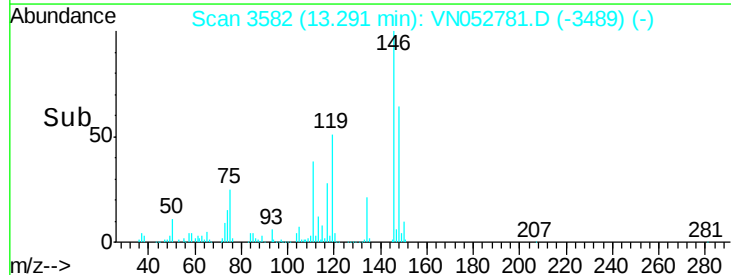
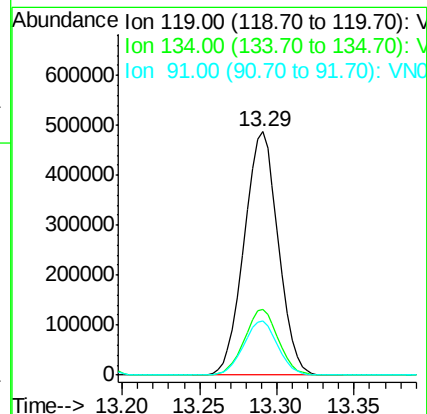
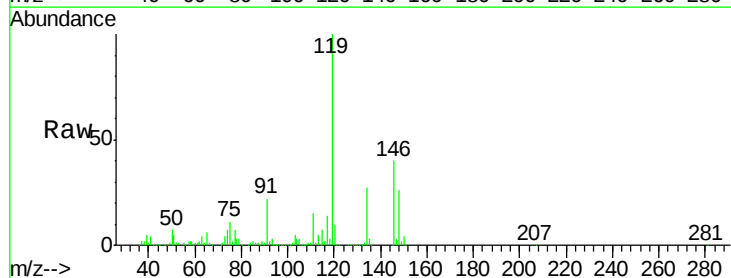
Tgt Ion:119 Resp: 743942

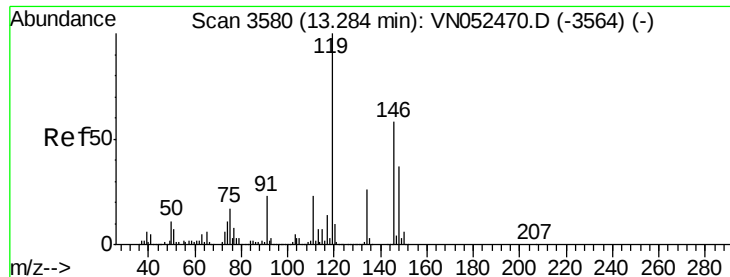
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.2

91 22.1 11.4 34.2





#87

1,3-Dichlorobenzene

Concen: 19.064 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

Instrument :

MSVOA\_N

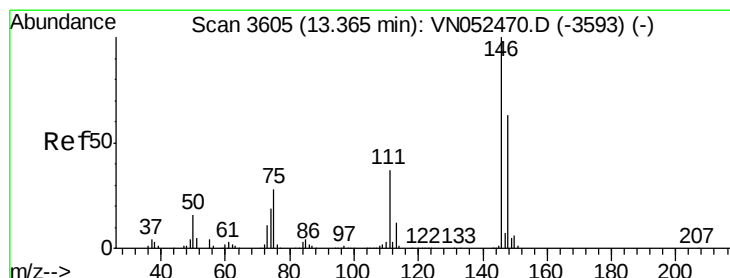
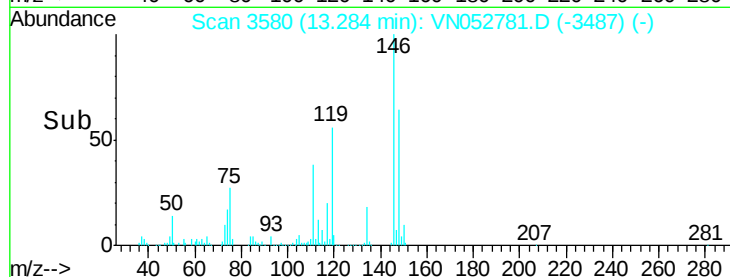
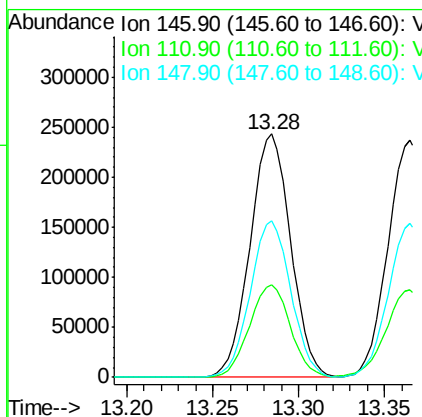
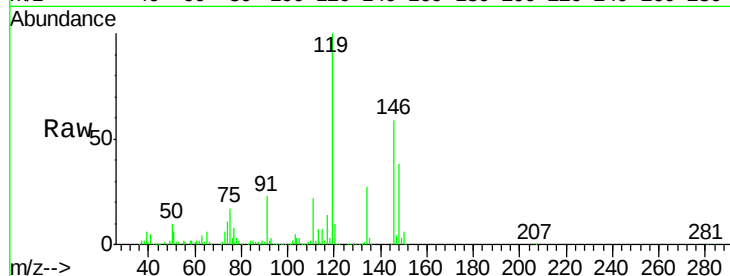
ClientSampleId :

VN1210WBSD03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 399973 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 38.3  | 19.4  | 58.4   |
| 148       | 64.0  | 31.8  | 95.4   |

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#88

1,4-Dichlorobenzene

Concen: 19.236 ug/l

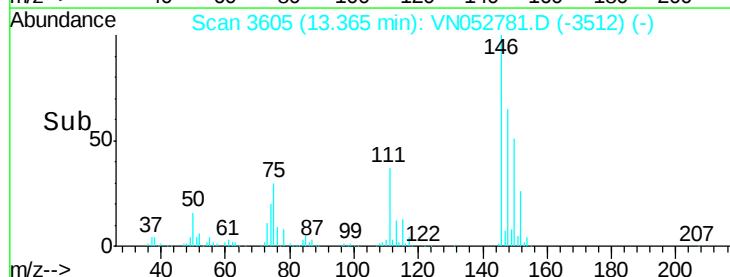
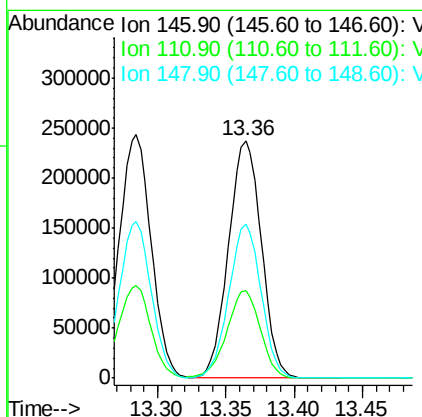
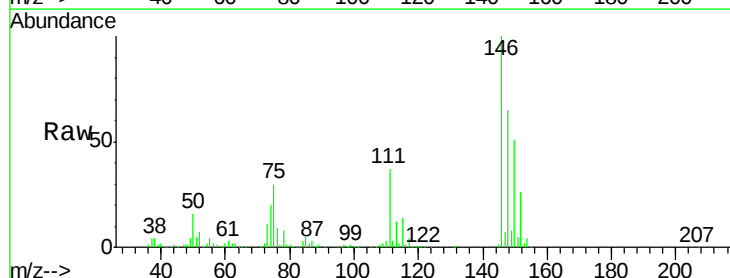
RT: 13.36 min Scan# 3605

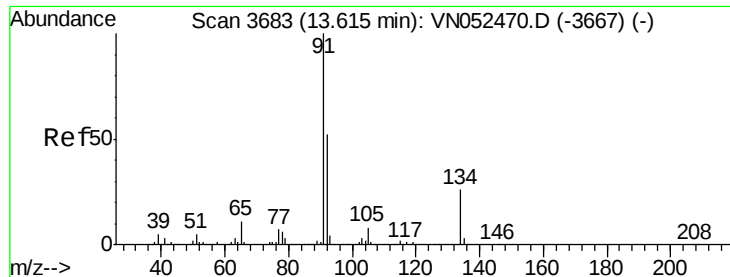
Delta R.T. -0.00 min

Lab File: VN052781.D

Acq: 11 Dec 2018 4:58

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 397519 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 37.7  | 18.6  | 56.0   |
| 148       | 63.6  | 31.9  | 95.9   |





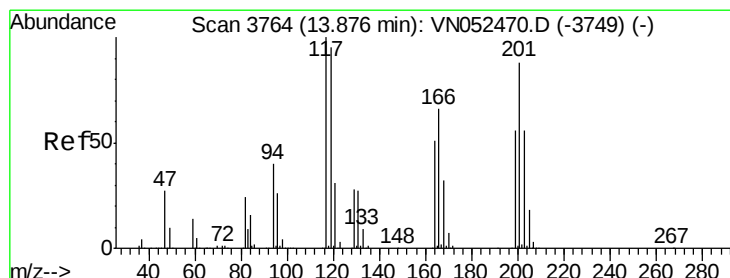
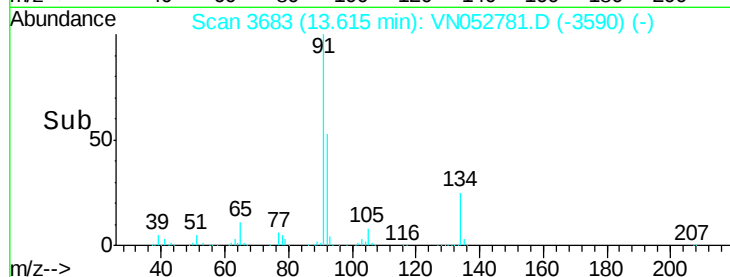
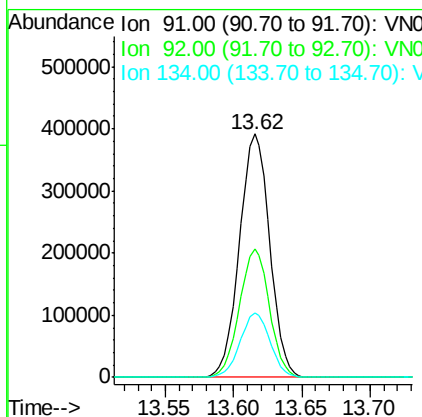
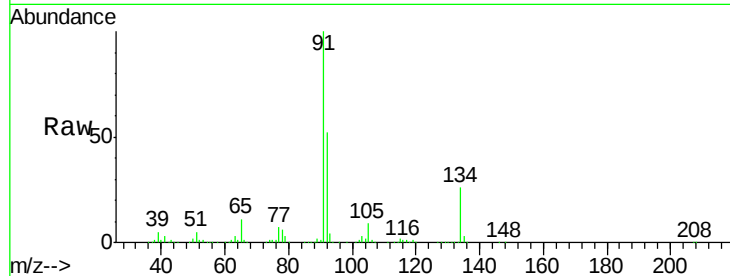
#89  
n-Butylbenzene  
Concen: 18.153 ug/l  
RT: 13.62 min Scan# 3683  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.1  | 26.1  | 78.3  |
| 134     | 26.1  | 13.0  | 38.9  |

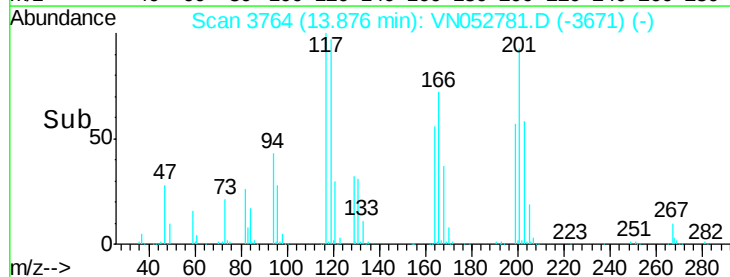
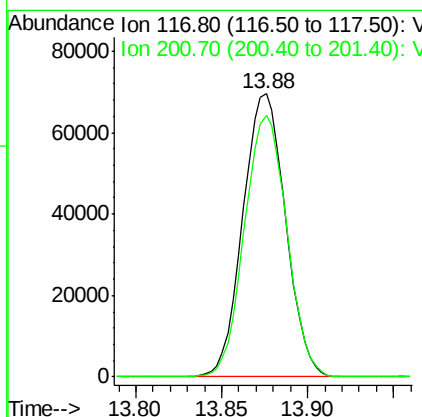
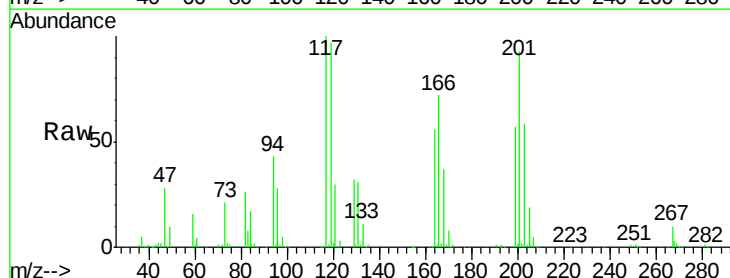
Manual Integrations  
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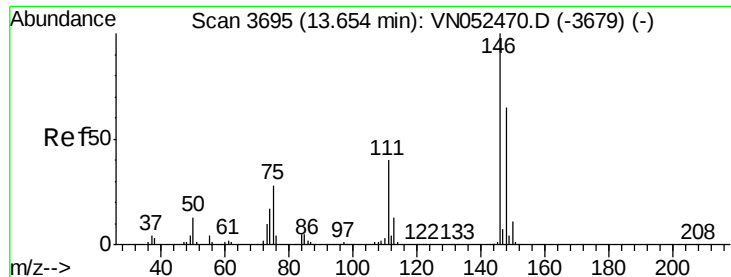
MMDadoda  
12/11/2018 12:47:05 PM



#90  
Hexachloroethane  
Concen: 17.690 ug/l  
RT: 13.88 min Scan# 3764  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 91.8  | 43.6  | 130.9 |





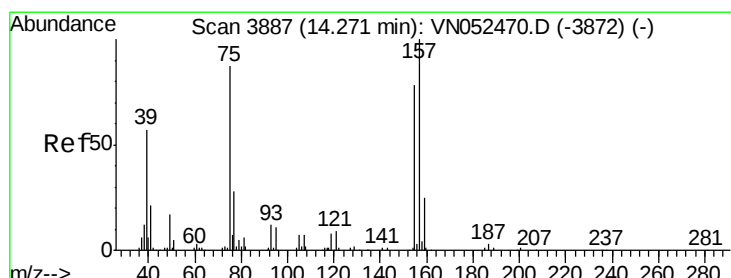
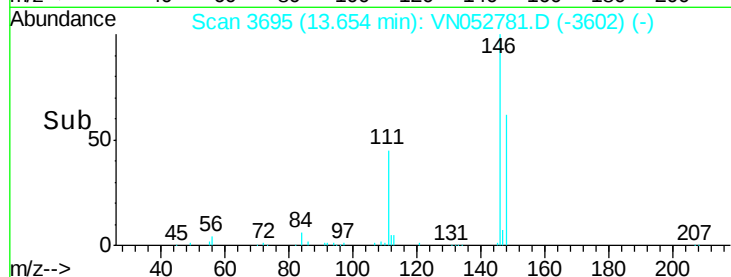
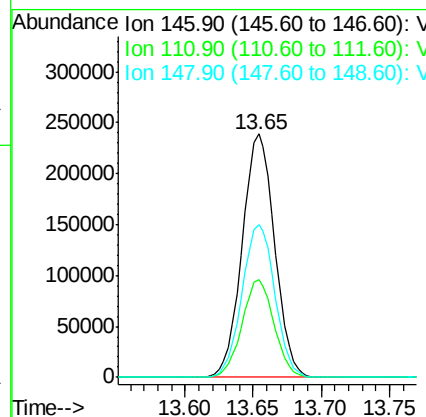
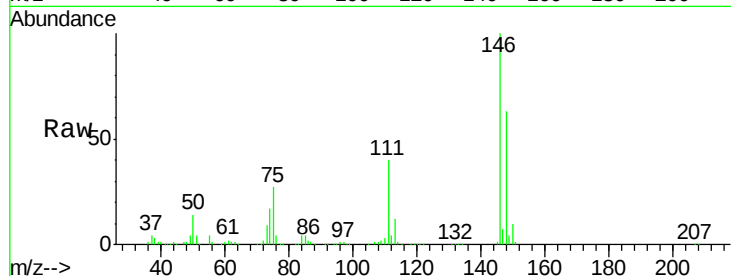
#91  
 1,2-Dichlorobenzene  
 Concen: 19.654 ug/l  
 RT: 13.65 min Scan# 3695  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.7  | 20.0  | 60.0  |
| 148     | 63.4  | 32.0  | 96.2  |

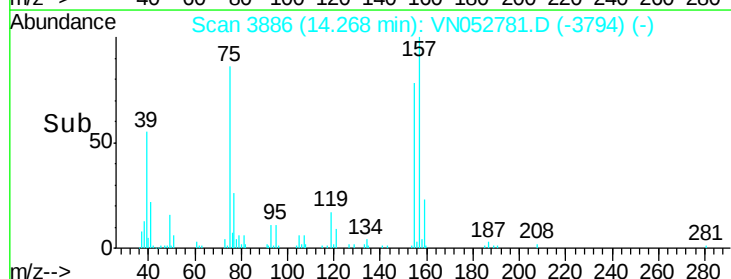
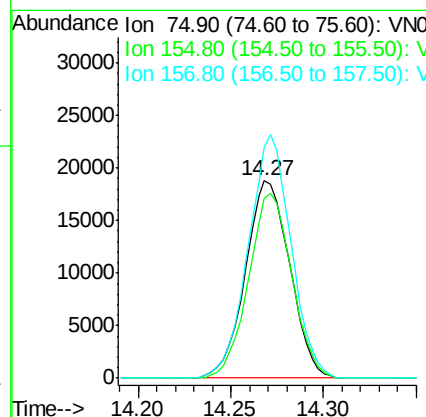
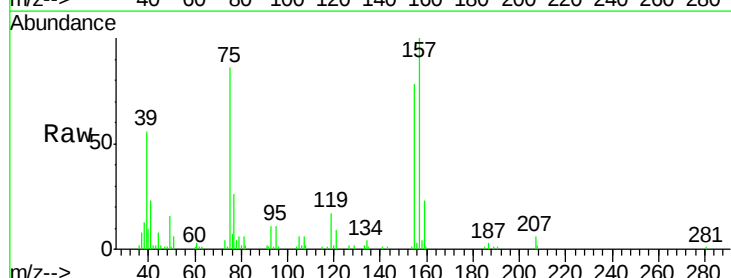
Manual Integrations  
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#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.726 ug/l  
 RT: 14.27 min Scan# 3886  
 Delta R.T. -0.00 min  
 Lab File: VN052781.D  
 Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 91.2  | 45.3  | 135.9 |
| 157     | 118.4 | 58.1  | 174.2 |





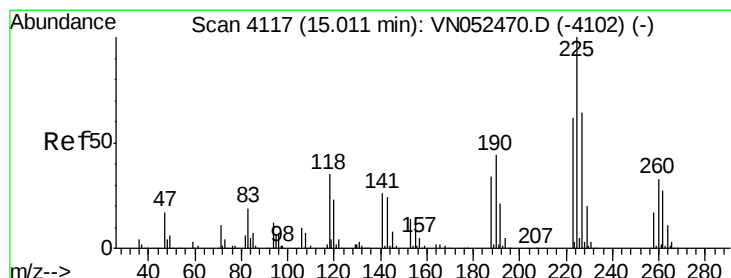
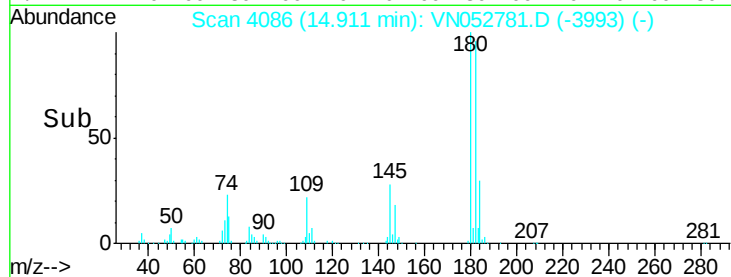
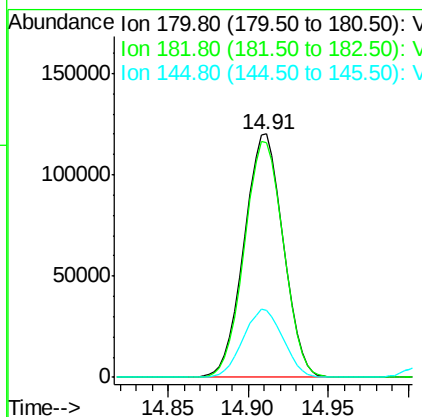
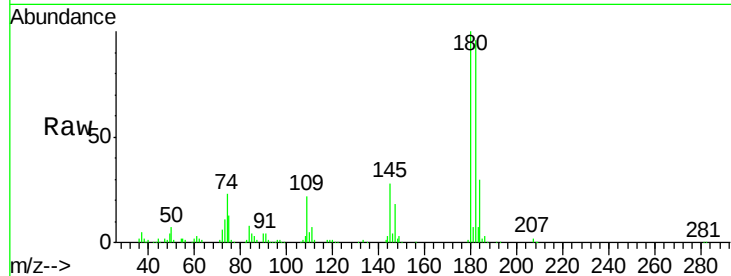
#93  
1,2,4-Trichlorobenzene  
Concen: 20.040 ug/l  
RT: 14.91 min Scan# 4086  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 200319 |       |       |
| 182     | 96.9  |        | 47.8  | 143.4 |
| 145     | 28.6  |        | 14.1  | 42.3  |

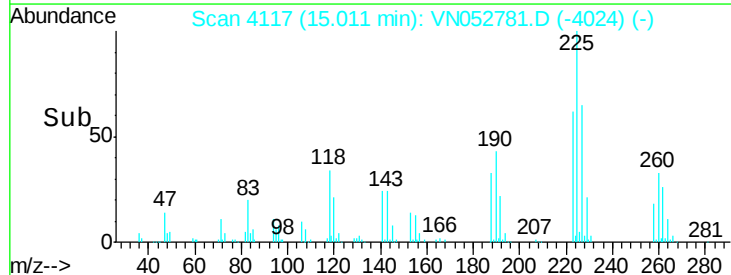
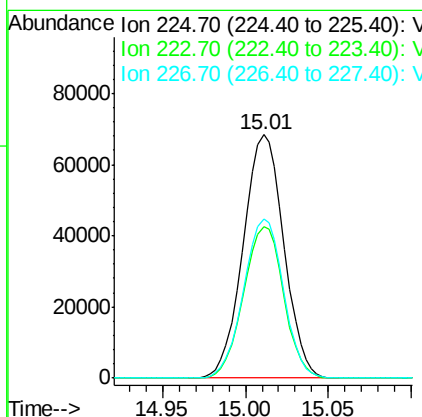
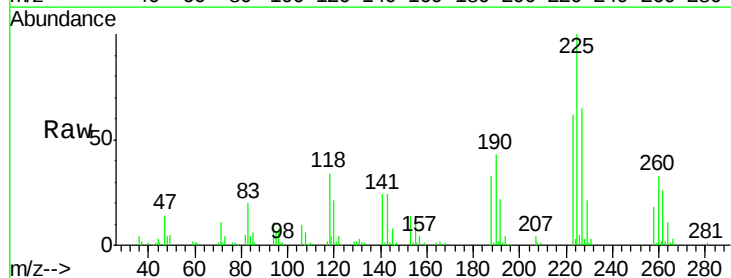
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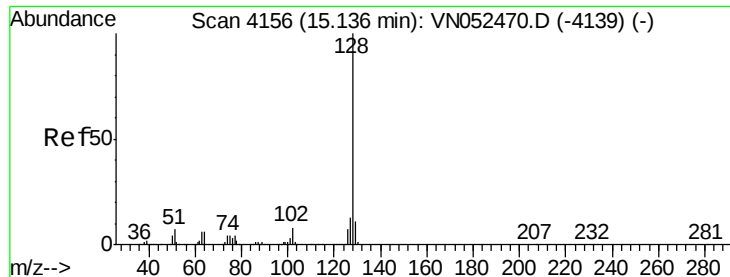
MMDadoda  
12/11/2018 12:47:05 PM



#94  
Hexachlorobutadiene  
Concen: 18.044 ug/l  
RT: 15.01 min Scan# 4117  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 225     | 100   | 116356 |       |       |
| 223     | 61.5  |        | 31.4  | 94.2  |
| 227     | 64.2  |        | 32.5  | 97.4  |





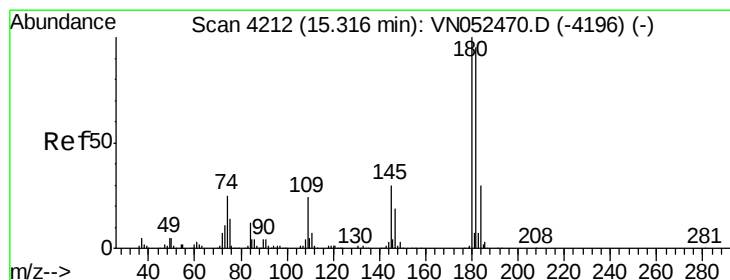
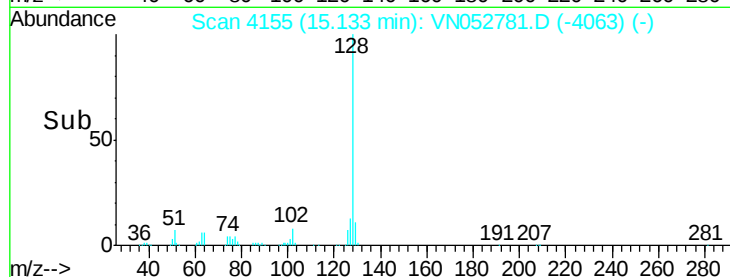
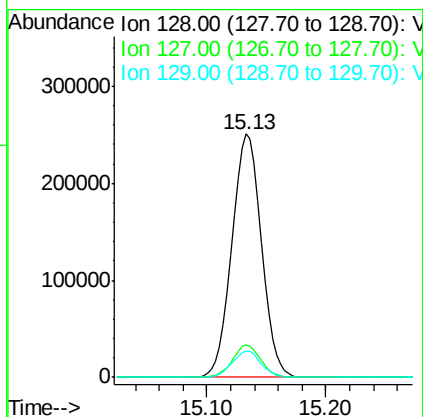
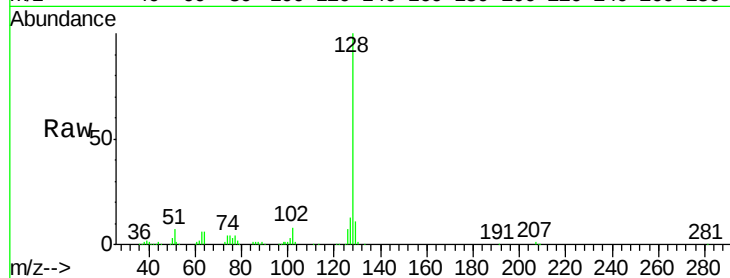
#95  
Naphthalene  
Concen: 20.690 ug/l  
RT: 15.13 min Scan# 4155  
Delta R.T. -0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN1210WBSD03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.2  | 15.2  |
| 129     | 10.6  | 8.7   | 13.1  |

Manual Integrations  
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#96  
1,2,3-Trichlorobenzene  
Concen: 20.340 ug/l  
RT: 15.32 min Scan# 4212  
Delta R.T. 0.00 min  
Lab File: VN052781.D  
Acq: 11 Dec 2018 4:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.8  | 47.8  | 143.3 |
| 145     | 30.3  | 15.2  | 45.5  |

