

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\  
 Data File : VN050451.D  
 Acq On : 8 Aug 2018 11:13  
 Operator : MD\SY  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/9/2018 1:32:12 PM

Quant Time: Aug 08 14:47:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 795411   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 1145267  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 1058587  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 547823   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 487421   | 45.86 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 91.72% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 446314   | 48.57 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.14% |      |
| 50) Toluene-d8            | 10.09  | 98  | 1669713  | 48.33 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.66% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 581754   | 49.40 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.80% |      |

## Target Compounds

|                               |      |     |         |        |      | Qvalue |
|-------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 388796  | 44.03  | ug/l | 99     |
| 3) Chloromethane              | 2.06 | 50  | 463725  | 44.28  | ug/l | 99     |
| 4) Vinyl Chloride             | 2.18 | 62  | 506272  | 44.30  | ug/l | 98     |
| 5) Bromomethane               | 2.56 | 94  | 290051  | 52.34  | ug/l | 99     |
| 6) Chloroethane               | 2.70 | 64  | 313022  | 44.45  | ug/l | 99     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 671284  | 45.48  | ug/l | 100    |
| 8) Diethyl Ether              | 3.41 | 74  | 253707  | 46.87  | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 424433  | 46.53  | ug/l | 98     |
| 10) Methyl Iodide             | 3.95 | 142 | 207975  | 51.75  | ug/l | 97     |
| 11) Tert butyl alcohol        | 4.79 | 59  | 158833  | 186.05 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.73 | 96  | 390958  | 45.46  | ug/l | 98     |
| 13) Acrolein                  | 3.61 | 56  | 167224  | 156.53 | ug/l | 100    |
| 14) Allyl chloride            | 4.32 | 41  | 626547  | 45.37  | ug/l | 98     |
| 15) Acrylonitrile             | 4.99 | 53  | 731039  | 204.43 | ug/l | 99     |
| 16) Acetone                   | 3.82 | 43  | 635379  | 200.40 | ug/l | 100    |
| 17) Carbon Disulfide          | 4.05 | 76  | 1141935 | 40.84  | ug/l | 99     |
| 18) Methyl Acetate            | 4.33 | 43  | 346685  | 42.07  | ug/l | 98     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 1168614 | 47.88  | ug/l | 98     |
| 20) Methylene Chloride        | 4.55 | 84  | 450860  | 46.40  | ug/l | 98     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 431939  | 46.42  | ug/l | 98     |
| 22) Diisopropyl ether         | 5.95 | 45  | 1350471 | 47.87  | ug/l | 98     |
| 23) Vinyl Acetate             | 5.90 | 43  | 4696064 | 233.31 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 790187  | 45.65  | ug/l | 100    |
| 25) 2-Butanone                | 6.84 | 43  | 1066274 | 202.47 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.82 | 77  | 659710  | 46.23  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 497029  | 48.19  | ug/l | 98     |
| 28) Bromochloromethane        | 7.19 | 49  | 369522  | 46.37  | ug/l | 95     |
| 29) Tetrahydrofuran           | 7.21 | 42  | 553675  | 196.43 | ug/l | 98     |
| 30) Chloroform                | 7.37 | 83  | 808065  | 46.70  | ug/l | 100    |
| 31) Cyclohexane               | 7.65 | 56  | 691857  | 45.35  | ug/l | 97     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 689705  | 46.41  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.79 | 75  | 615017  | 48.87  | ug/l | 99     |
| 37) Ethyl Acetate             | 6.93 | 43  | 387097  | 42.72  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 7.77 | 117 | 606368  | 46.19  | ug/l | 98     |

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Instrument :  
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 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 8/9/2018 1:32:12 PM

Quant Time: Aug 08 14:47:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 05:22:15 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 39) Methylcyclohexane          | 9.08  | 83   | 662967   | 48.27  | ug/l   | 97       |
| 40) Benzene                    | 8.04  | 78   | 1857374  | 48.01  | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.17  | 41   | 205783   | 42.71  | ug/l # | 85       |
| 42) 1,2-Dichloroethane         | 8.12  | 62   | 587320   | 47.82  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 8.17  | 43   | 689640   | 44.08  | ug/l   | 96       |
| 44) Trichloroethene            | 8.83  | 130  | 503984   | 48.48  | ug/l   | 100      |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 486038   | 47.79  | ug/l   | 98       |
| 46) Dibromomethane             | 9.21  | 93   | 296116   | 47.15  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.40  | 83   | 629846   | 48.42  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.20  | 41   | 354099   | 45.16  | ug/l   | 97       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 95792    | 792.61 | ug/l   | 96       |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 2401383  | 213.15 | ug/l   | 99       |
| 52) Toluene                    | 10.16 | 92   | 1165775  | 50.17  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 659634   | 50.50  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 751050   | 51.52  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 427590   | 47.13  | ug/l   | 100      |
| 56) Ethyl methacrylate         | 10.43 | 69   | 570550   | 44.63  | ug/l   | 96       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 713366   | 47.91  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.70  | 63   | 1311250  | 220.03 | ug/l   | 98       |
| 59) 2-Hexanone                 | 10.75 | 43   | 1692929  | 215.32 | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.90 | 129  | 487001   | 48.73  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 427717   | 47.83  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.63 | 164  | 498406   | 50.39  | ug/l   | 99       |
| 65) Chlorobenzene              | 11.43 | 112  | 1293264  | 48.73  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 477370   | 49.42  | ug/l   | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 2204492  | 51.39  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 1694038  | 103.73 | ug/l   | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 820471   | 52.15  | ug/l   | 99       |
| 70) Styrene                    | 11.96 | 104  | 1359802  | 53.15  | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 336810   | 47.71  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.25 | 105  | 2148568  | 52.25  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 621797   | 46.65  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 519598   | 43.79  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 442225m  | 44.60  | ug/l   |          |
| 77) Bromobenzene               | 12.53 | 156  | 563249   | 51.13  | ug/l   | 97       |
| 78) n-propylbenzene            | 12.59 | 91   | 2420255  | 51.99  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 1456053  | 50.65  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1755818  | 52.60  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 138204   | 48.97  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 1487855  | 51.90  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1480618  | 50.84  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1793157  | 53.03  | ug/l   | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1963008  | 50.57  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1741219  | 52.35  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 978801   | 49.88  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 962107   | 49.10  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.62 | 91   | 1434066  | 50.64  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.88 | 117  | 268386   | 45.37  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 954033   | 48.50  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 80858    | 40.14  | ug/l   | 95       |

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Sample : VSTDCCC050  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

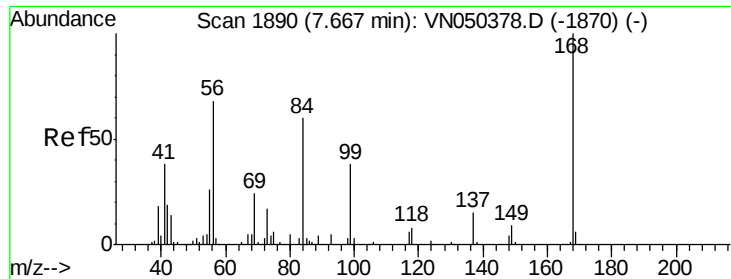
MMDadoda  
8/9/2018 1:32:12 PM

Quant Time: Aug 08 14:47:01 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N080618W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 07 05:22:15 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.91 | 180  | 533451   | 53.25 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.01 | 225  | 284710   | 52.09 | ug/l  | 100      |
| 95) Naphthalene            | 15.13 | 128  | 1235776  | 46.83 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 505472   | 49.90 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 795411

Ion Ratio Lower Upper

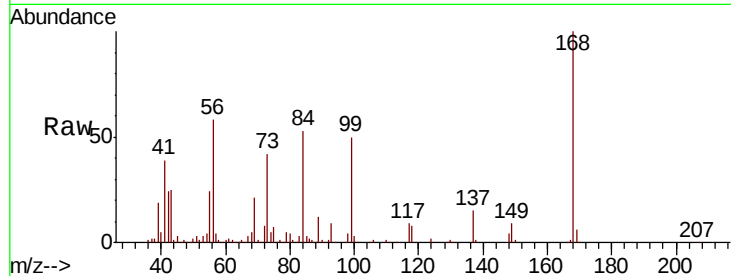
168 100

99 49.7 40.0 60.0

Manual Integrations  
APPROVED

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8/9/2018 1:32:12 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

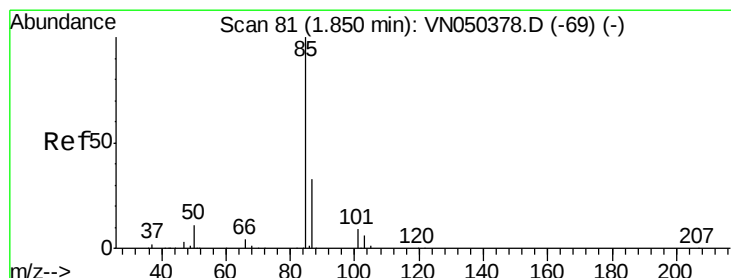
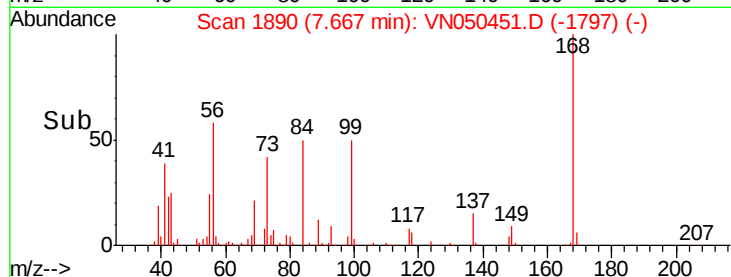
200000

100000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 44.03 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050451.D

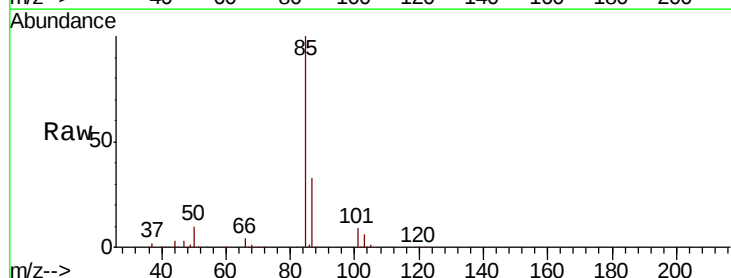
Acq: 8 Aug 2018 11:13

Tgt Ion: 85 Resp: 388796

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

250000

200000

150000

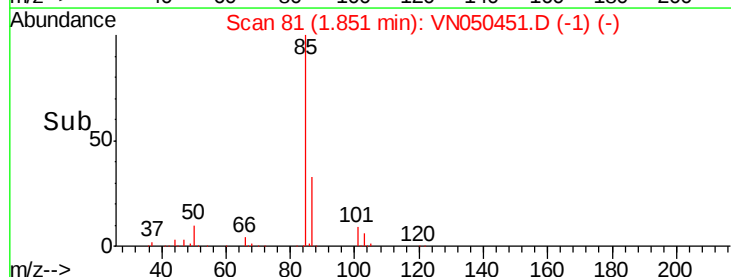
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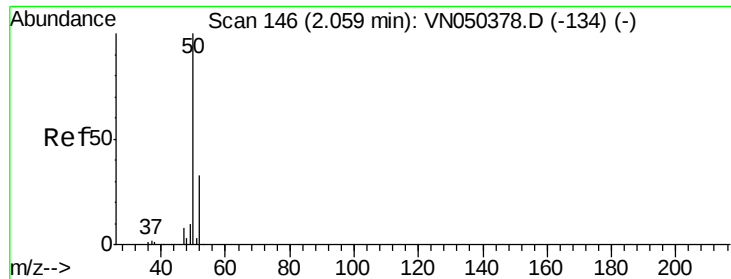
50000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 44.28 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 463725

Ion Ratio Lower Upper

50 100

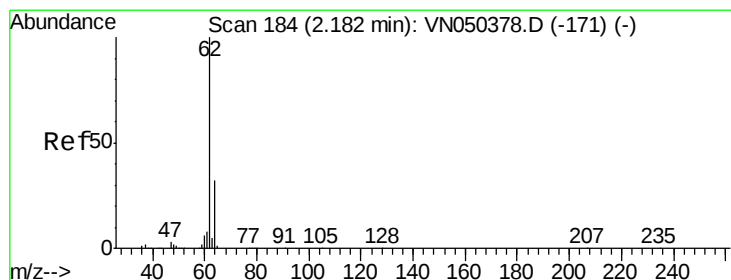
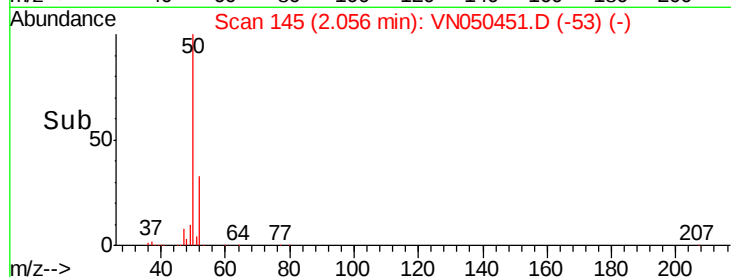
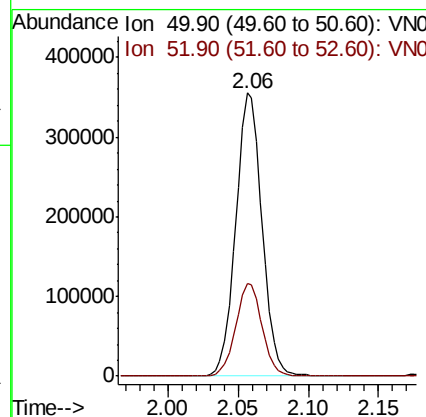
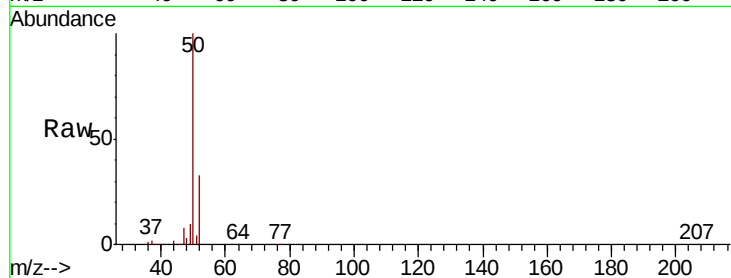
52 32.7 25.9 38.9

Manual Integrations

APPROVED

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8/9/2018 1:32:12 PM



#4

Vinyl Chloride

Concen: 44.30 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050451.D

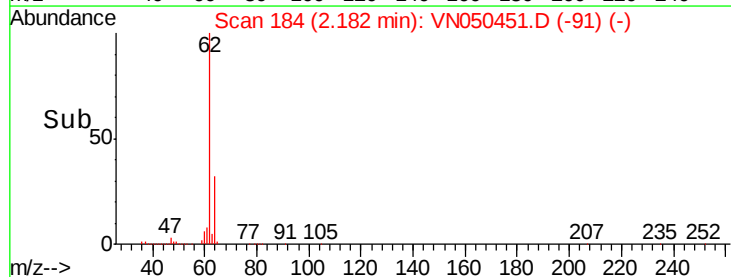
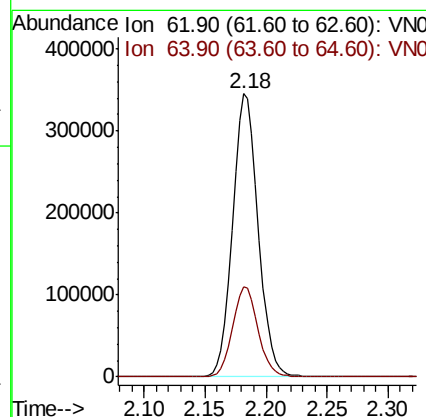
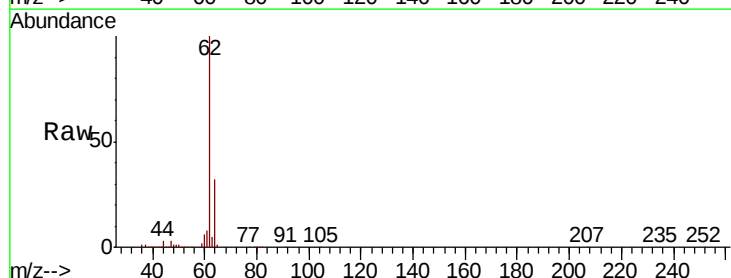
Acq: 8 Aug 2018 11:13

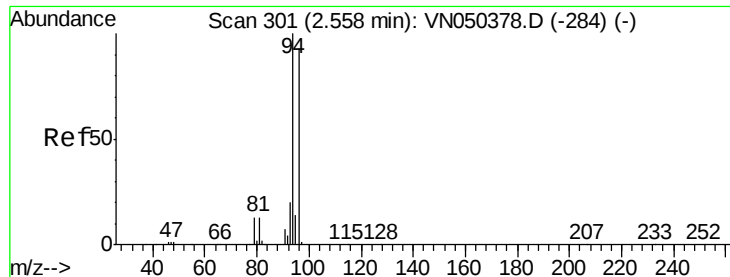
Tgt Ion: 62 Resp: 506272

Ion Ratio Lower Upper

62 100

64 31.8 24.7 37.1





#5

Bromomethane

Concen: 52.34 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 290051

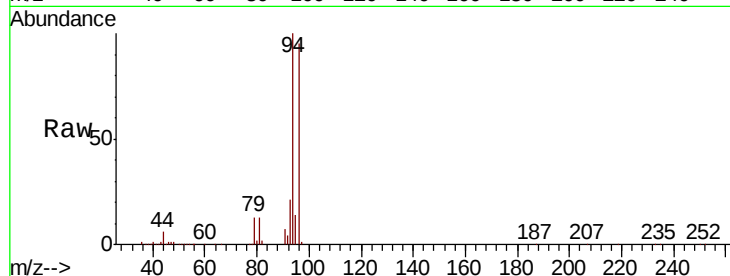
Ion Ratio Lower Upper

94 100

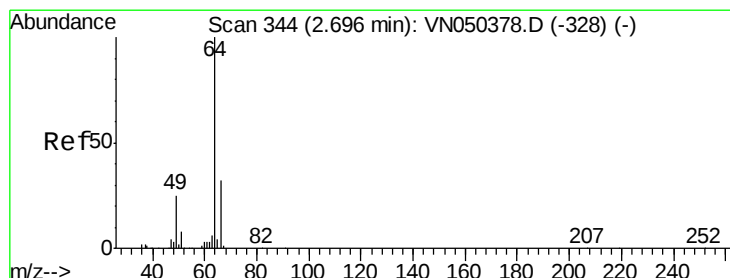
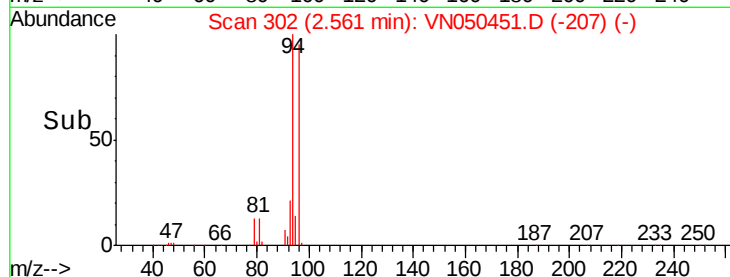
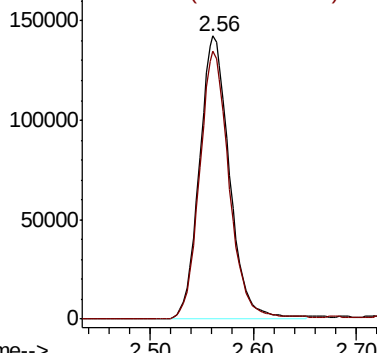
96 94.4 74.6 112.0

Manual Integrations  
APPROVED

MMDadoda  
8/9/2018 1:32:12 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO  
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 44.45 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VN050451.D

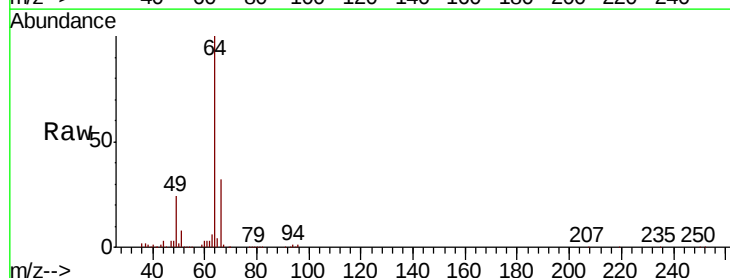
Acq: 8 Aug 2018 11:13

Tgt Ion: 64 Resp: 313022

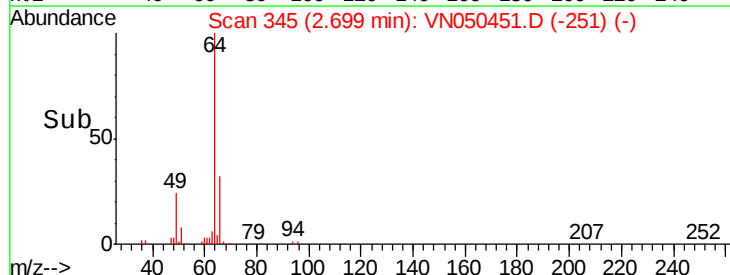
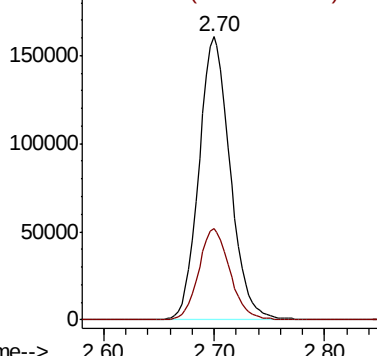
Ion Ratio Lower Upper

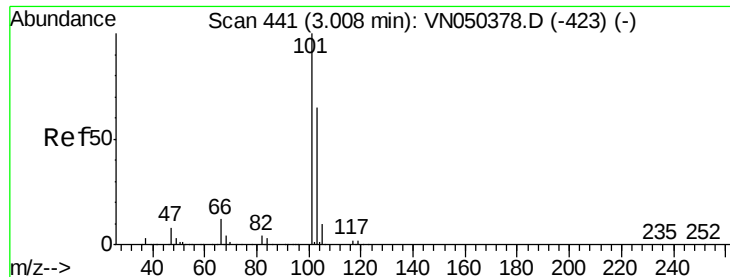
64 100

66 32.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VNO  
Ion 65.90 (65.60 to 66.60): VNO





#7

Trichlorofluoromethane

Concen: 45.48 ug/l

RT: 3.01 min Scan# 442

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion:101 Resp: 671284

Ion Ratio Lower Upper

101 100

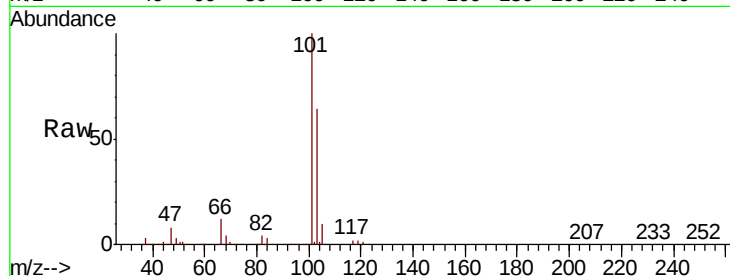
103 64.3 51.7 77.5

Manual Integrations

APPROVED

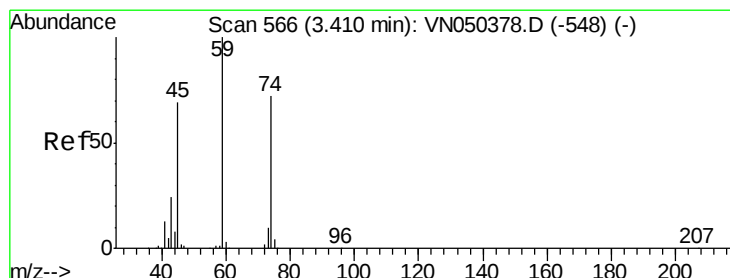
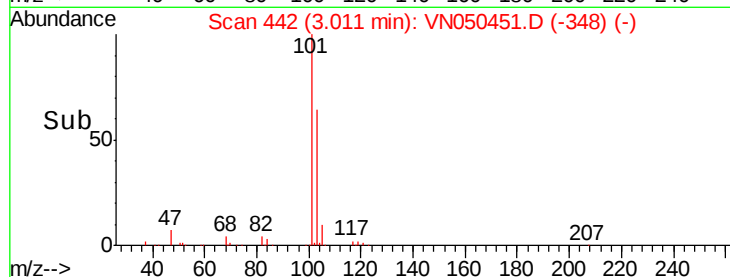
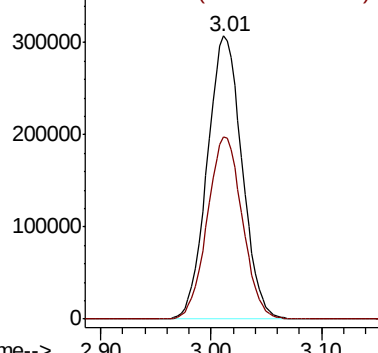
MMDadoda

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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 46.87 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN050451.D

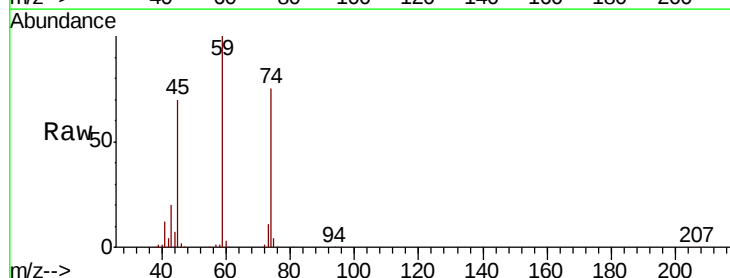
Acq: 8 Aug 2018 11:13

Tgt Ion: 74 Resp: 253707

Ion Ratio Lower Upper

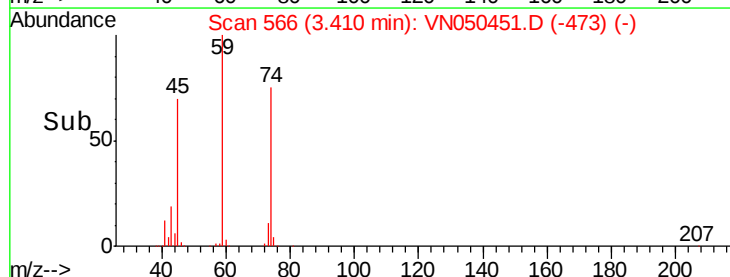
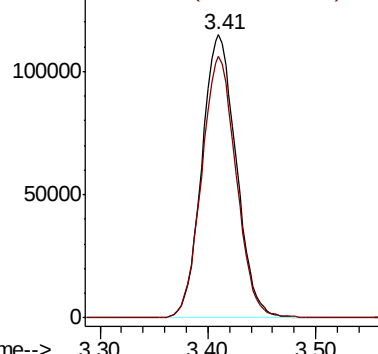
74 100

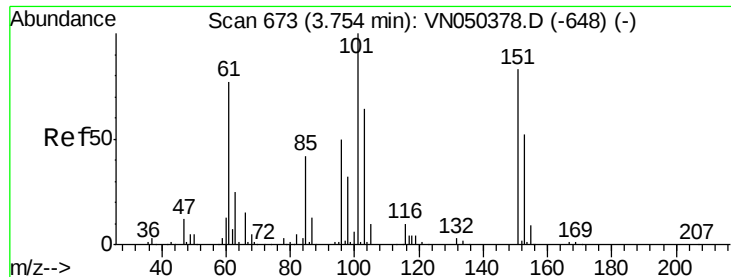
45 92.5 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.53 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

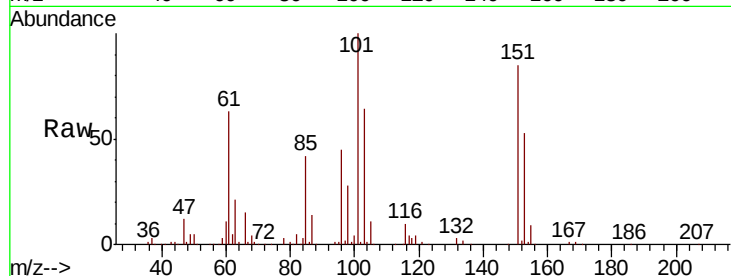
ClientSampleId :

VSTDCCC050

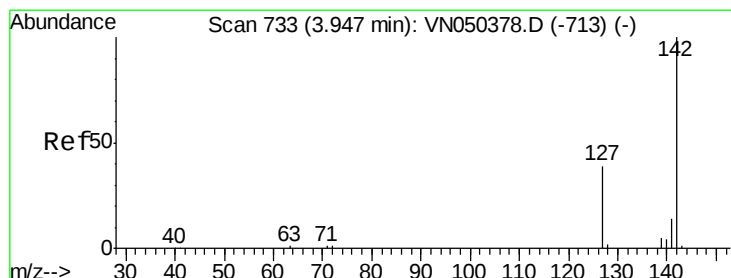
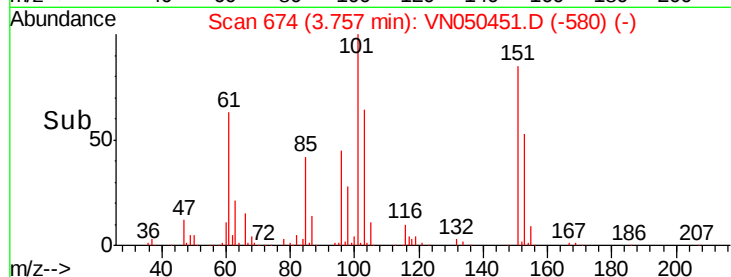
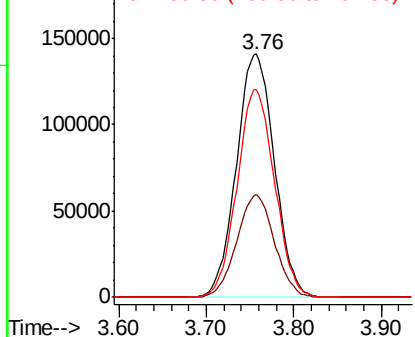
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 424433 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 41.7  | 34.2  | 51.2   |
| 151       | 84.4  | 66.3  | 99.5   |

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



#10

Methyl Iodide

Concen: 51.75 ug/l

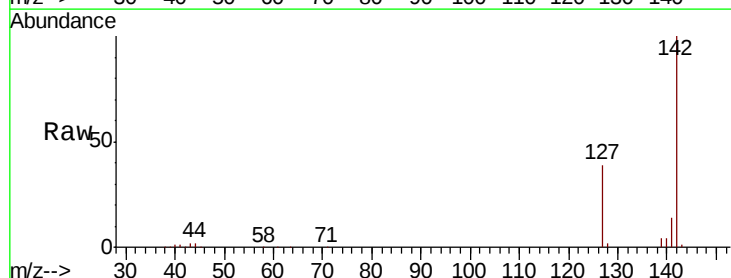
RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

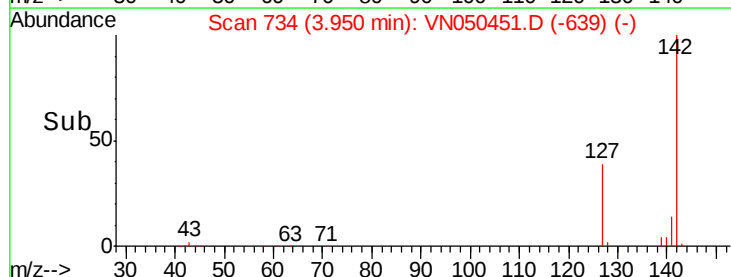
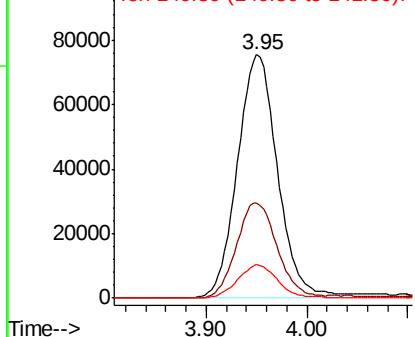
Lab File: VN050451.D

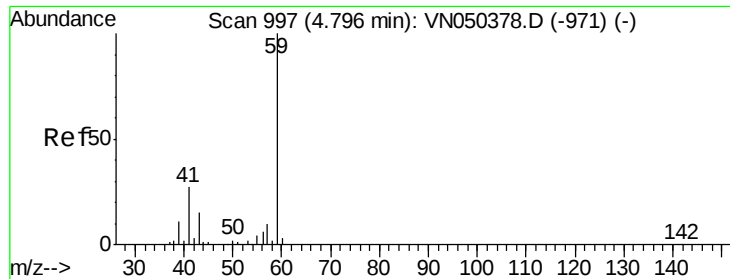
Acq: 8 Aug 2018 11:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 207975 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 39.7  | 33.4  | 50.2   |
| 141       | 13.7  | 11.6  | 17.4   |



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

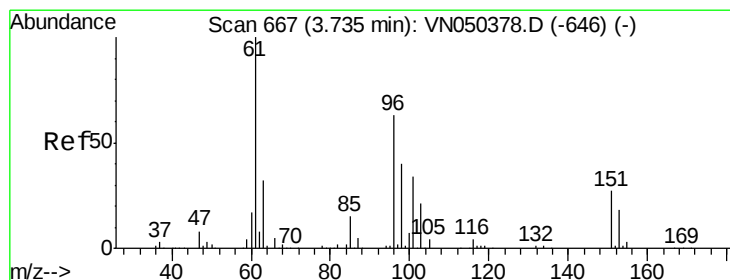
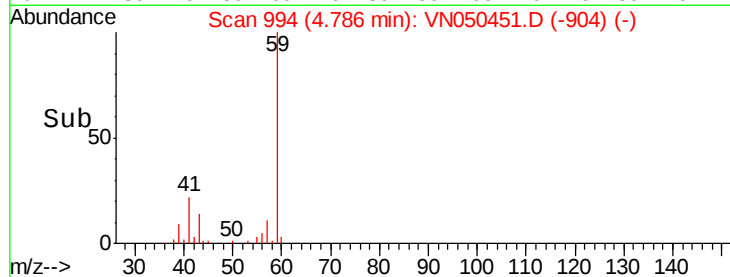
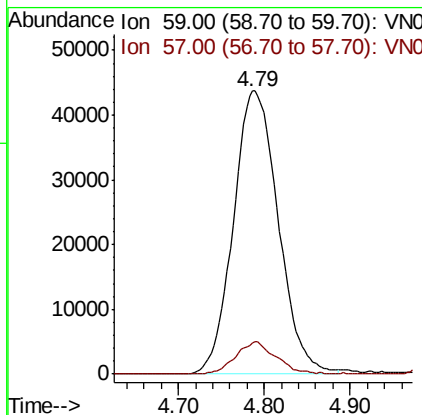
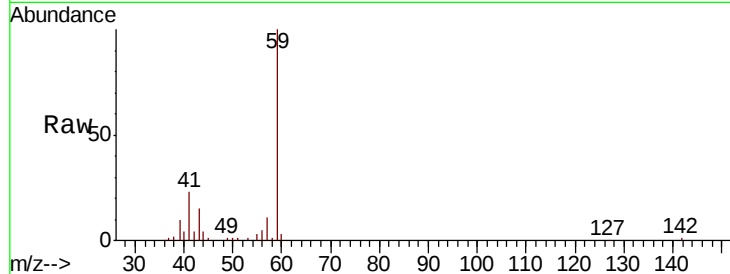
Tert butyl alcohol  
 Concen: 186.05 ug/l  
 RT: 4.79 min Scan# 994  
 Delta R.T. -0.01 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion   | 59   | Resp  | 158833 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 57        | 10.3 | 8.5   | 12.7   |

Manual Integrations  
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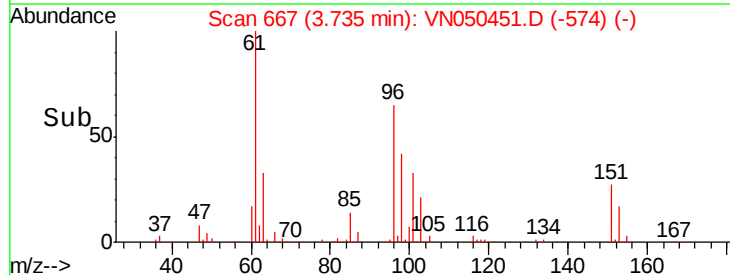
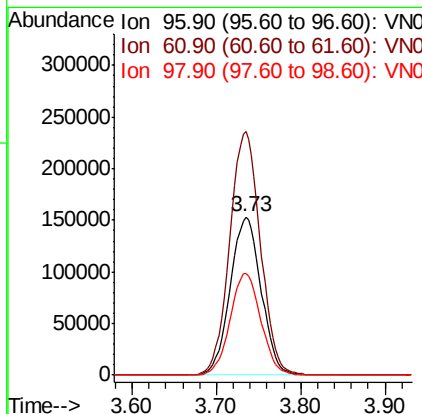
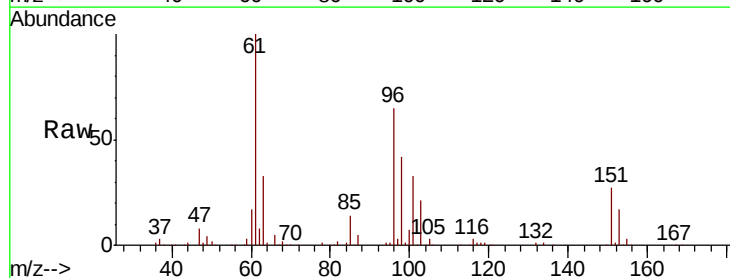
MMDadoda  
 8/9/2018 1:32:12 PM

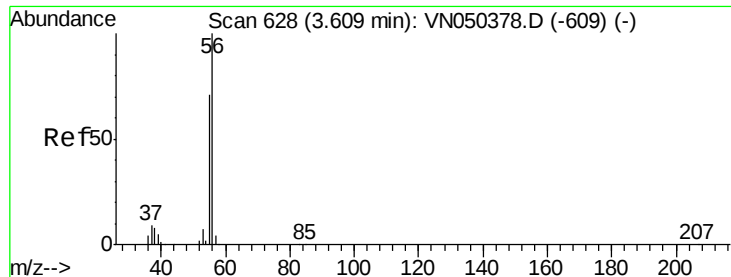


#12

1,1-Dichloroethene  
 Concen: 45.46 ug/l  
 RT: 3.73 min Scan# 667  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion   | 96    | Resp  | 390958 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 61        | 153.8 | 124.4 | 186.6  |
| 98        | 64.3  | 48.3  | 72.5   |





#13

Acrolein

Concen: 156.53 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 167224

Ion Ratio Lower Upper

56 100

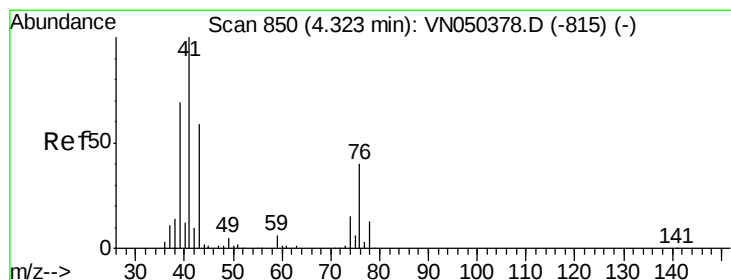
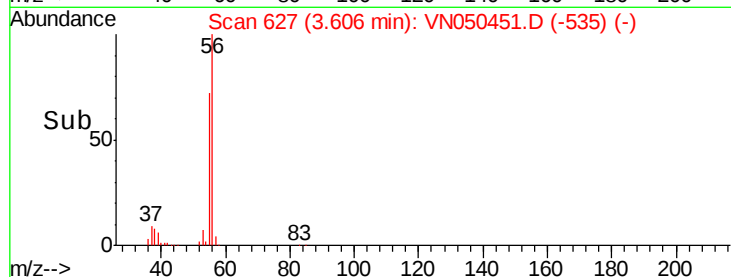
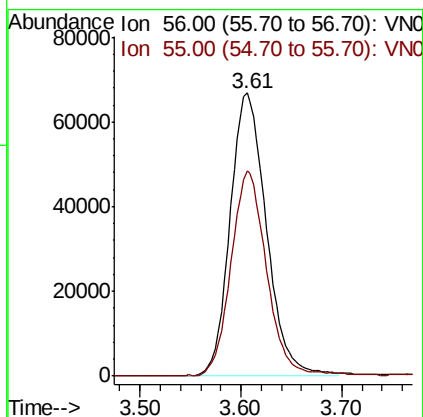
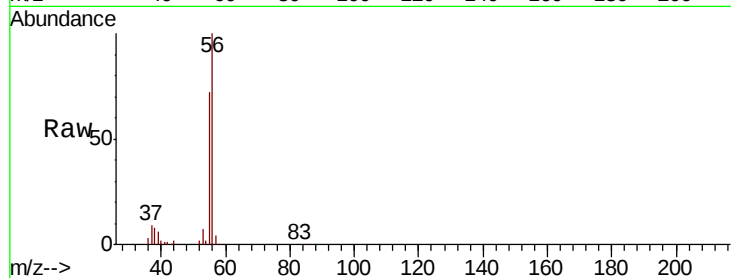
55 69.8 55.8 83.6

Manual Integrations

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#14

Allyl chloride

Concen: 45.37 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

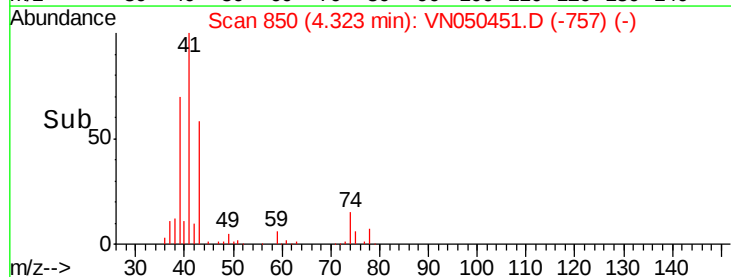
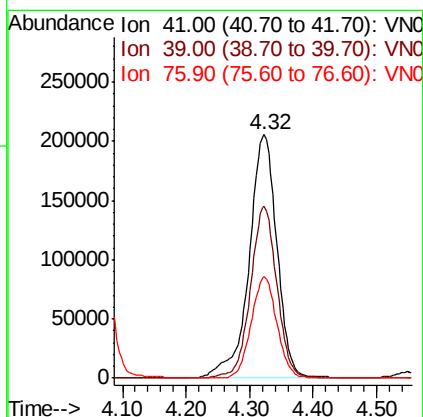
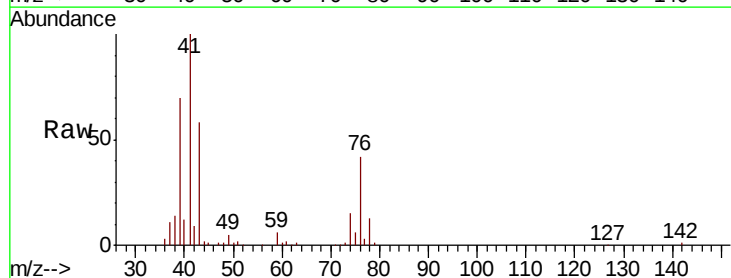
Tgt Ion: 41 Resp: 626547

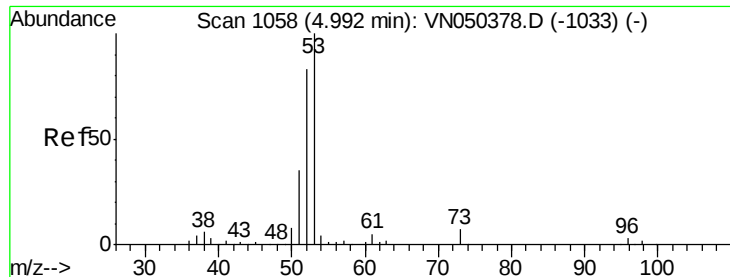
Ion Ratio Lower Upper

41 100

39 66.7 54.2 81.4

76 37.9 29.0 43.6





#15

Acrylonitrile

Concen: 204.43 ug/l

RT: 4.99 min Scan# 1057

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

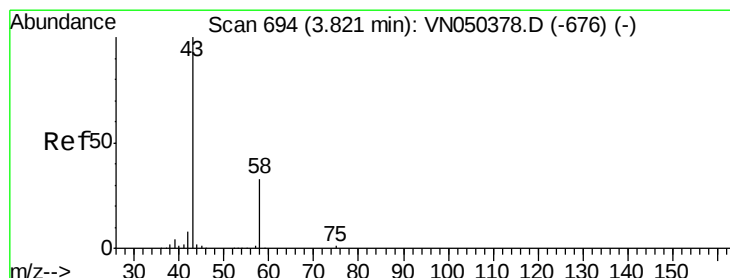
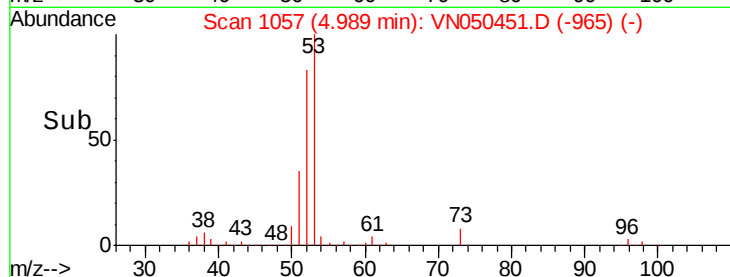
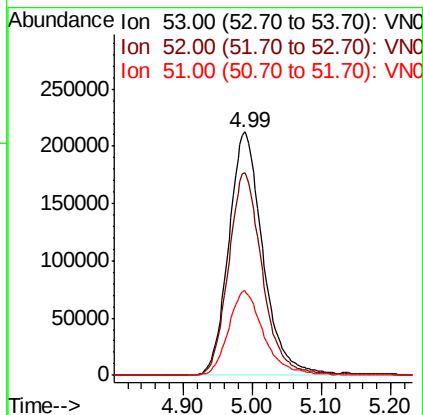
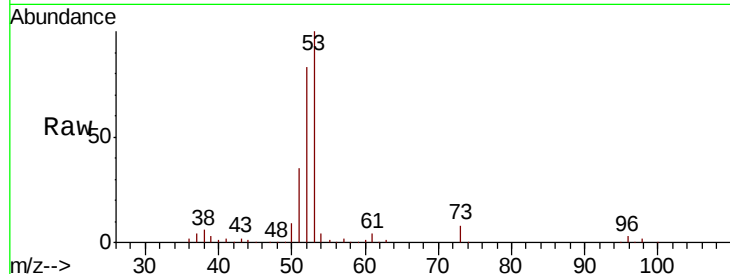
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 53    | Resp: | 731039 |
| Ion      | Ratio | Lower | Upper  |
| 53       | 100   |       |        |
| 52       | 82.2  | 66.2  | 99.2   |
| 51       | 35.9  | 29.3  | 43.9   |

Manual Integrations  
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MMDadoda  
8/9/2018 1:32:12 PM



#16

Acetone

Concen: 200.40 ug/l

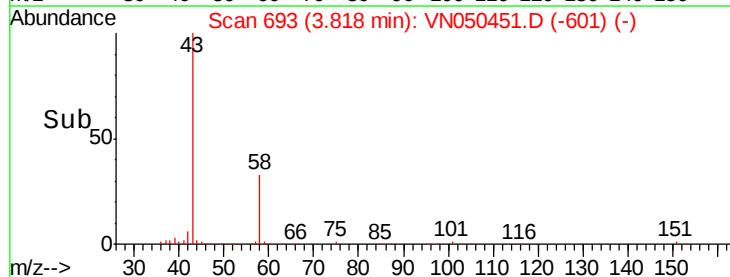
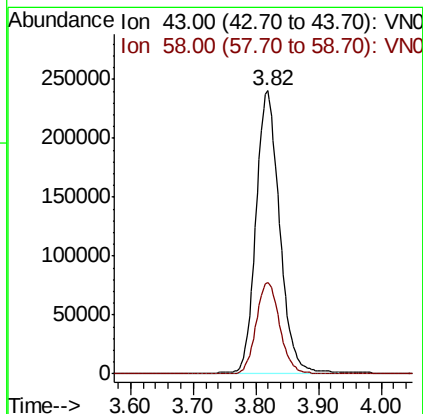
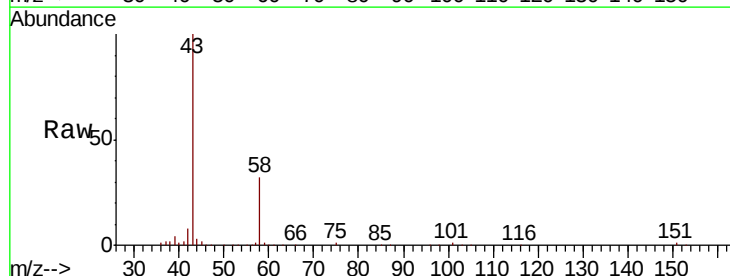
RT: 3.82 min Scan# 693

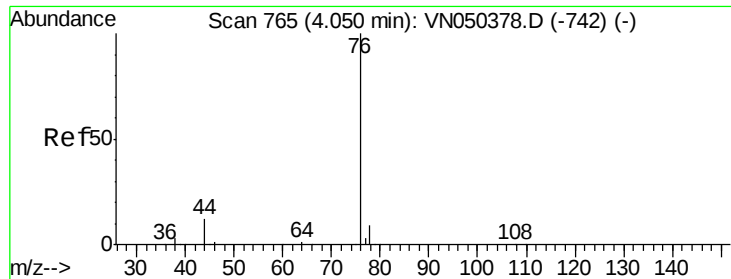
Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 635379 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 32.3  | 25.8  | 38.8   |





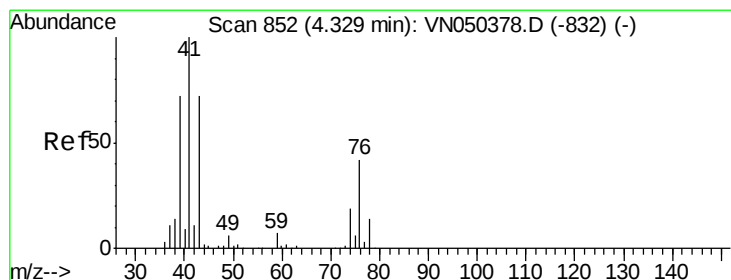
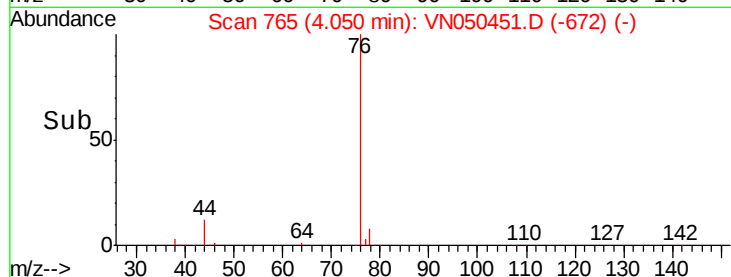
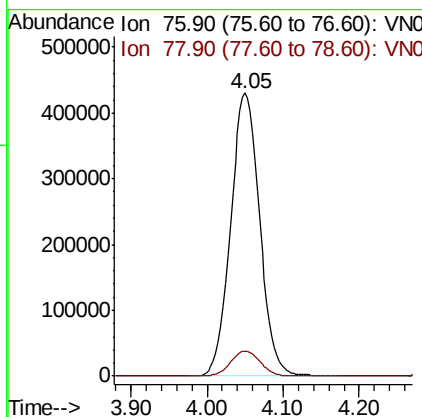
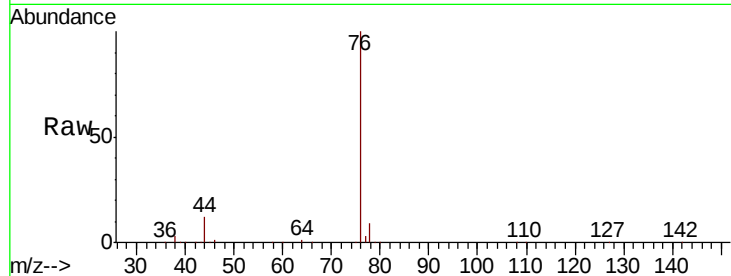
#17  
Carbon Disulfide  
Concen: 40.84 ug/l  
RT: 4.05 min Scan# 765  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Tot Ion: 76 Resp: 1141935  
Ion Ratio Lower Upper  
76 100  
78 8.8 7.3 10.9

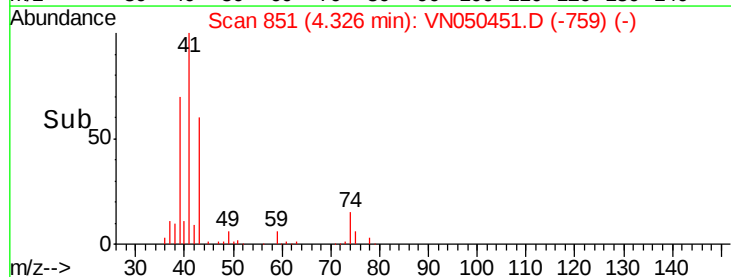
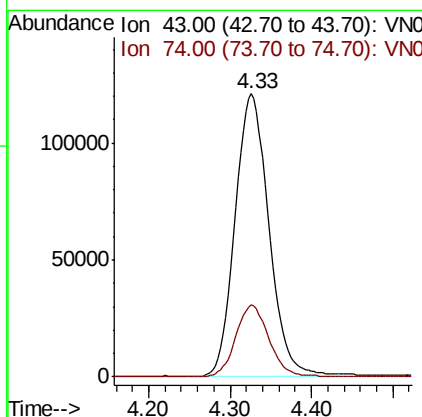
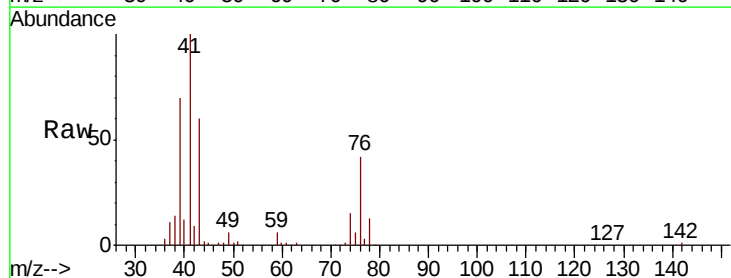
Manual Integrations  
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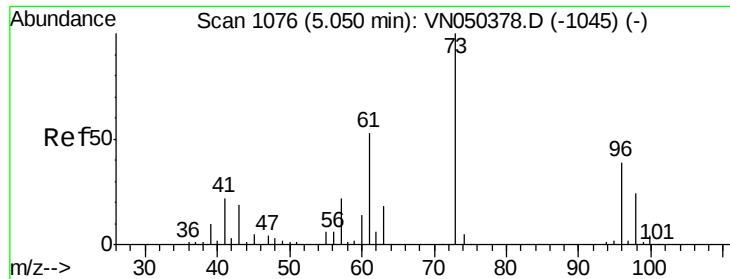
MMDadoda  
8/9/2018 1:32:12 PM



#18  
Methyl Acetate  
Concen: 42.07 ug/l  
RT: 4.33 min Scan# 851  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Tgt Ion: 43 Resp: 346685  
Ion Ratio Lower Upper  
43 100  
74 25.1 19.2 28.8





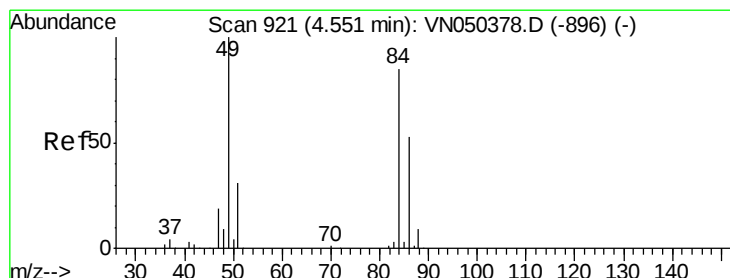
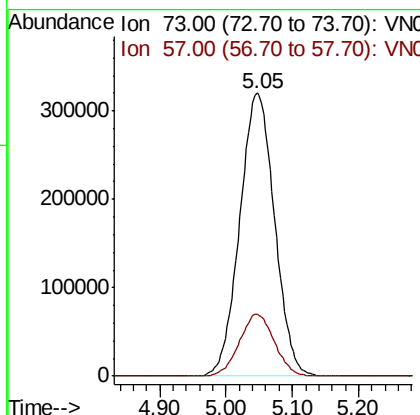
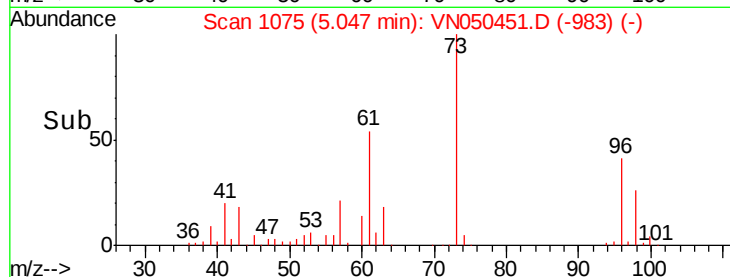
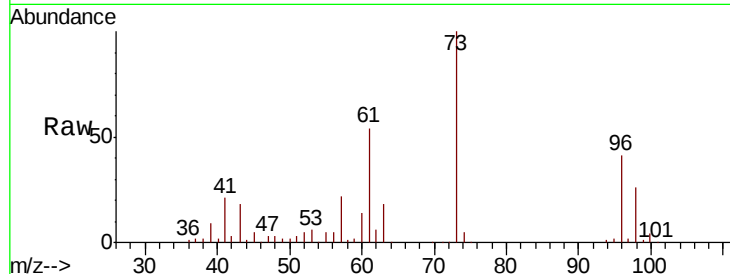
#19  
Methyl tert-butyl Ether  
Concen: 47.88 ug/l  
RT: 5.05 min Scan# 1075  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Tot Ion: 73 Resp: 1168614  
Ion Ratio Lower Upper  
73 100  
57 21.7 18.0 27.0

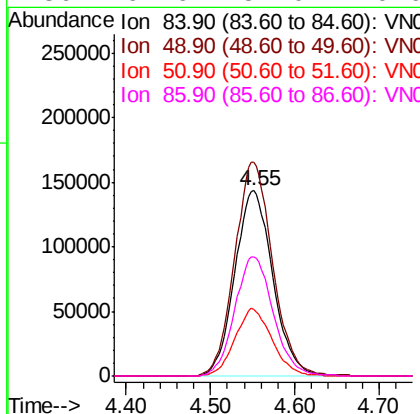
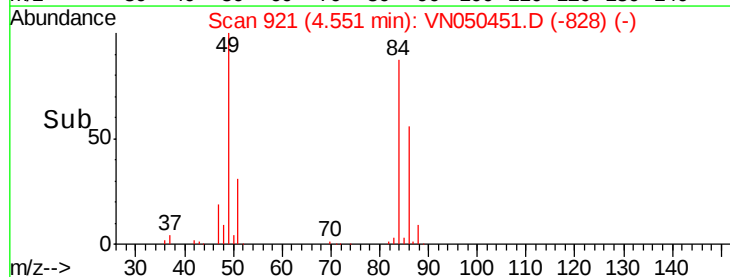
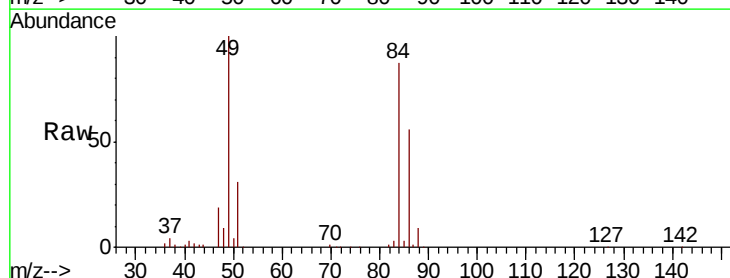
Manual Integrations  
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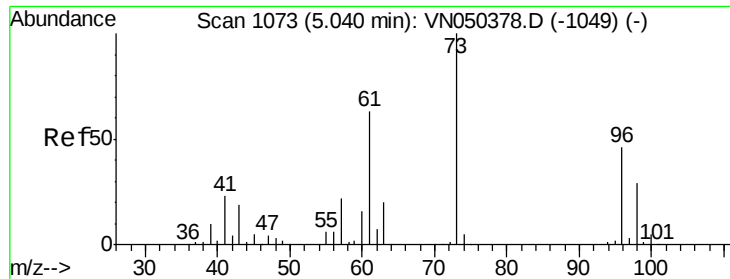
MMDadoda  
8/9/2018 1:32:12 PM



#20  
Methylene Chloride  
Concen: 46.40 ug/l  
RT: 4.55 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Tgt Ion: 84 Resp: 450860  
Ion Ratio Lower Upper  
84 100  
49 115.3 94.8 142.2  
51 35.9 28.3 42.5  
86 64.6 51.0 76.6





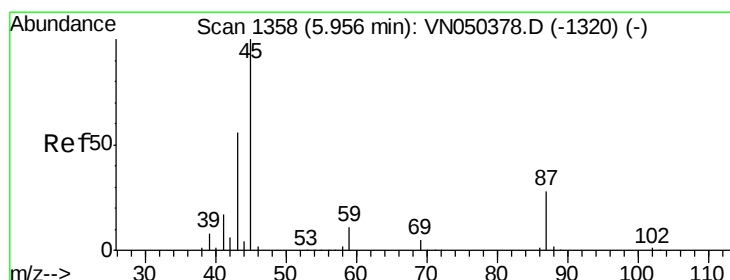
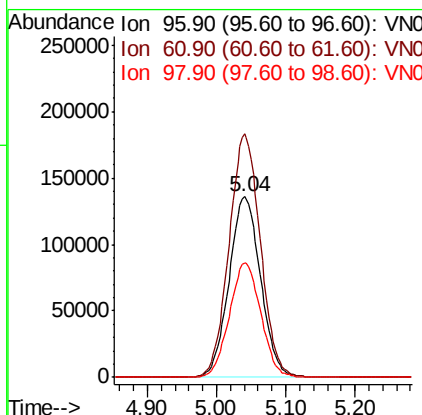
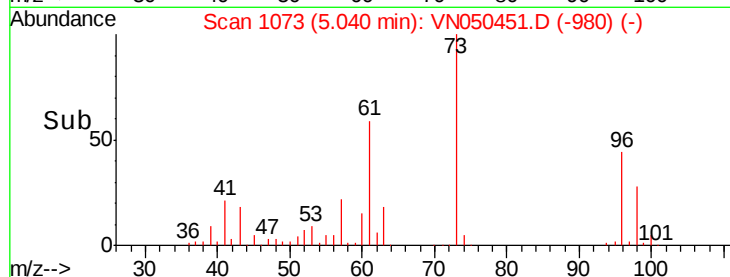
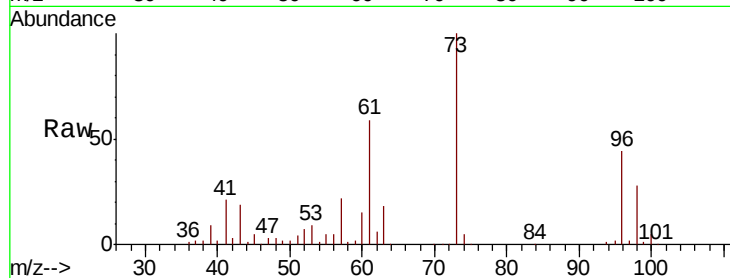
#21  
trans-1,2-Dichloroethene  
Concen: 46.42 ug/l  
RT: 5.04 min Scan# 1073  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion   | 96    | Resp  | 431939 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 134.7 | 110.7 | 166.1  |
| 98        | 63.6  | 51.6  | 77.4   |

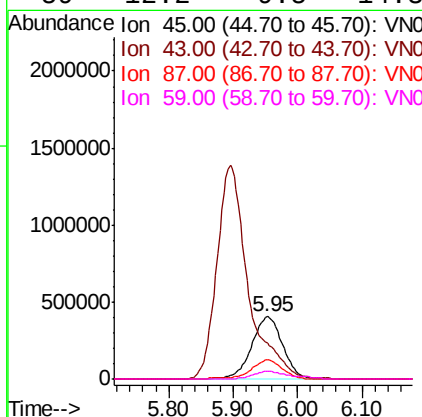
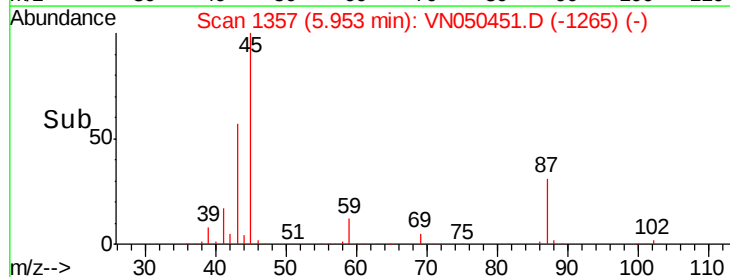
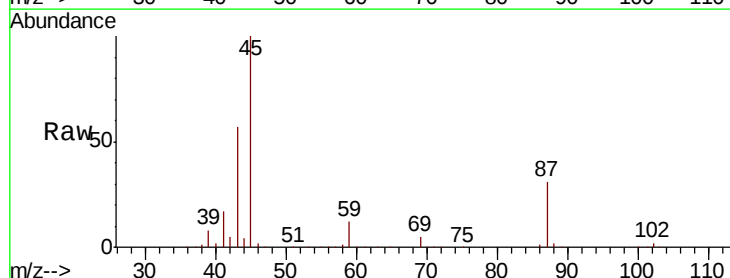
Manual Integrations  
APPROVED

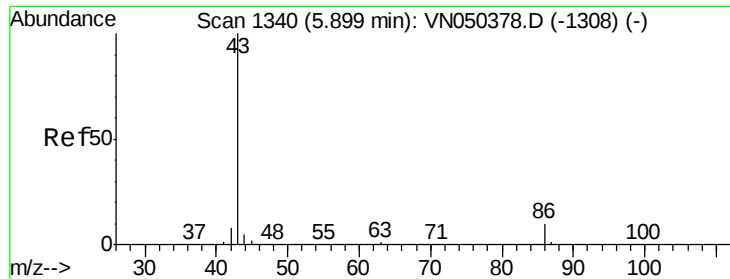
MMDadoda  
8/9/2018 1:32:12 PM



#22  
Diisopropyl ether  
Concen: 47.87 ug/l  
RT: 5.95 min Scan# 1357  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion   | 45    | Resp  | 1350471 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 45        | 100   |       |         |
| 43        | 56.2  | 45.7  | 68.5    |
| 87        | 30.5  | 22.7  | 34.1    |
| 59        | 12.2  | 9.5   | 14.3    |





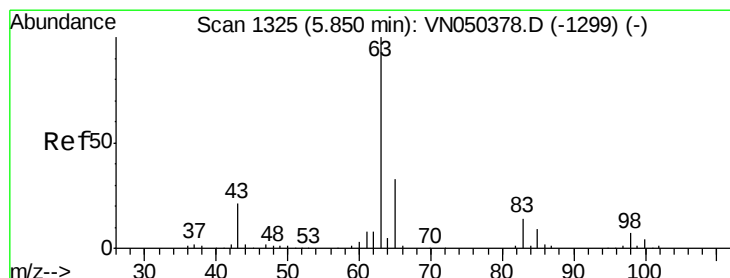
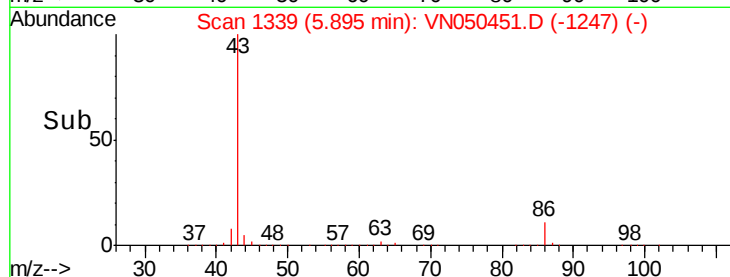
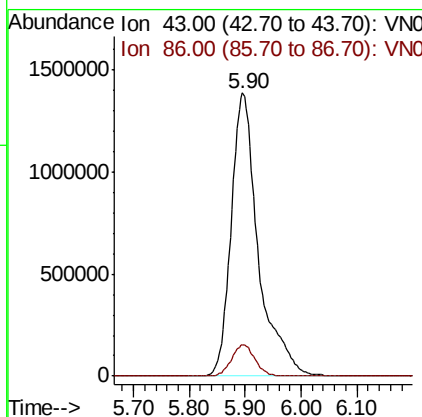
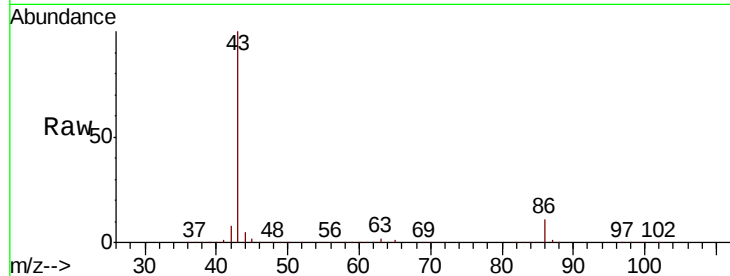
#23  
 Vinyl Acetate  
 Concen: 233.31 ug/l  
 RT: 5.90 min Scan# 1339  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Tot Ion: 43 Resp: 4696064  
 Ion Ratio Lower Upper  
 43 100  
 86 11.2 8.6 13.0

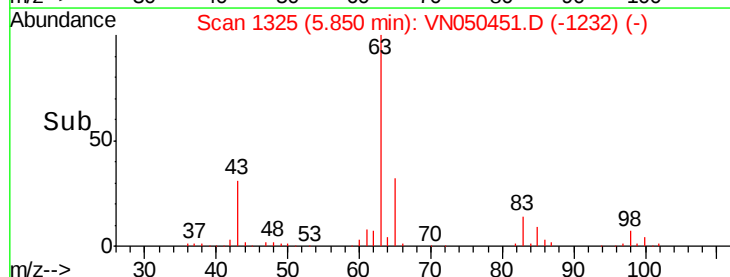
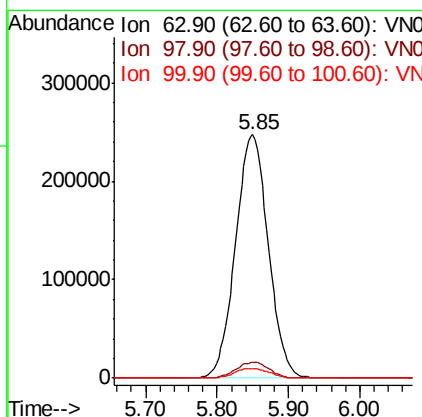
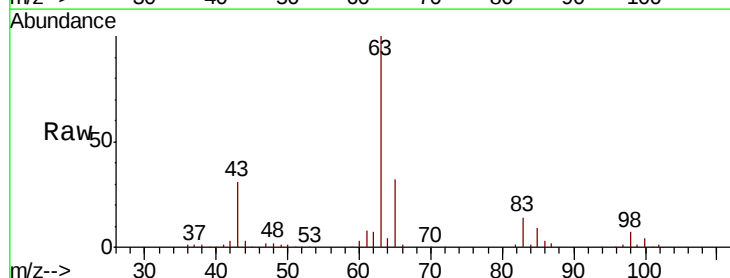
Manual Integrations  
 APPROVED

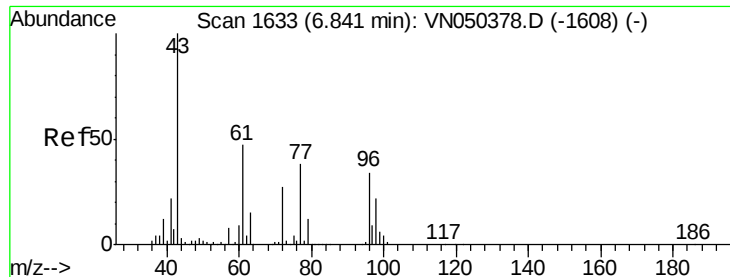
MMDadoda  
 8/9/2018 1:32:12 PM



#24  
 1,1-Dichloroethane  
 Concen: 45.65 ug/l  
 RT: 5.85 min Scan# 1325  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Tgt Ion: 63 Resp: 790187  
 Ion Ratio Lower Upper  
 63 100  
 98 6.5 3.3 9.8  
 100 4.0 2.1 6.3





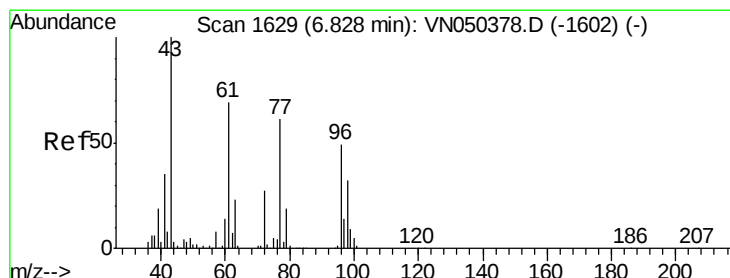
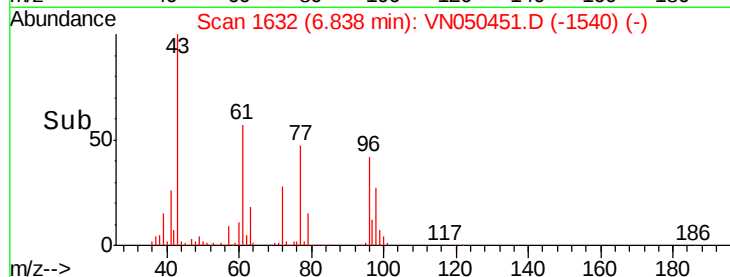
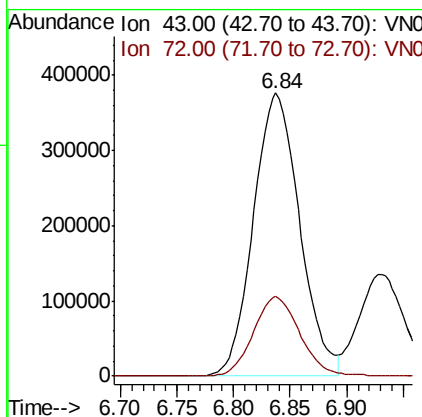
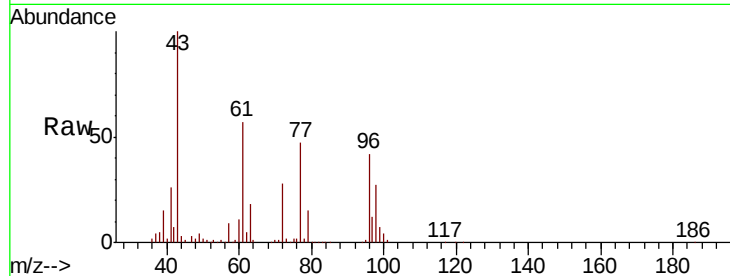
#25  
2-Butanone  
Concen: 202.47 ug/l  
RT: 6.84 min Scan# 1632  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Tot Ion: 43 Resp: 1066274  
Ion Ratio Lower Upper  
43 100  
72 28.0 21.5 32.3

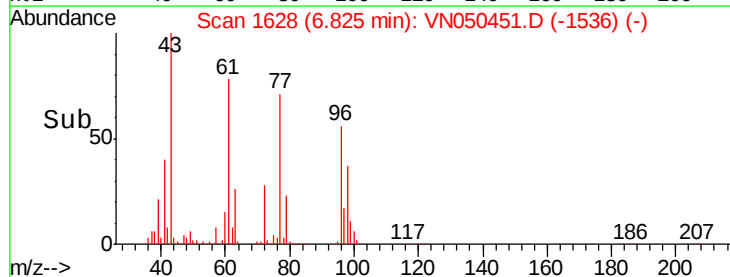
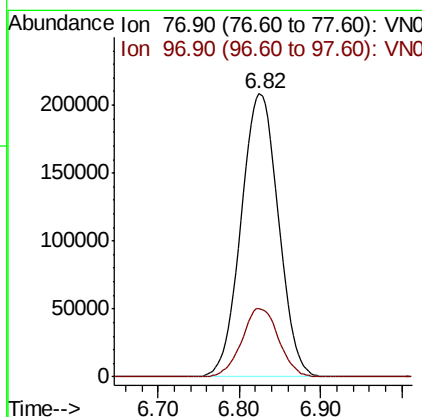
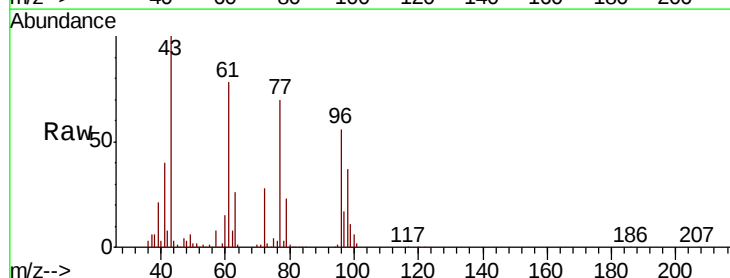
Manual Integrations  
APPROVED

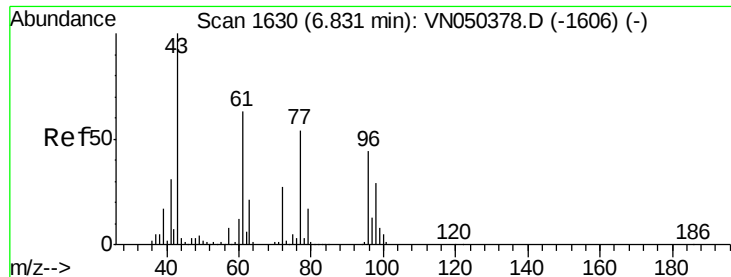
MMDadoda  
8/9/2018 1:32:12 PM



#26  
2,2-Dichloropropane  
Concen: 46.23 ug/l  
RT: 6.82 min Scan# 1628  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Tgt Ion: 77 Resp: 659710  
Ion Ratio Lower Upper  
77 100  
97 23.9 11.8 35.3





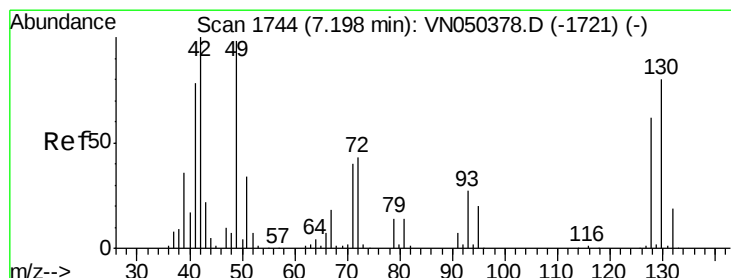
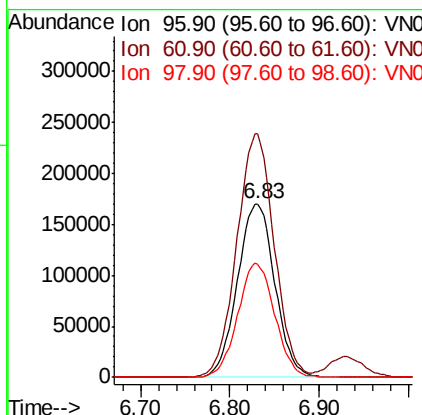
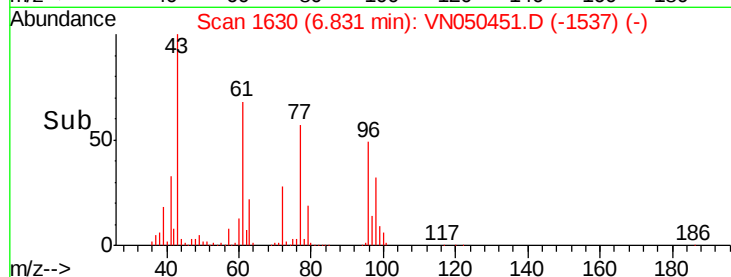
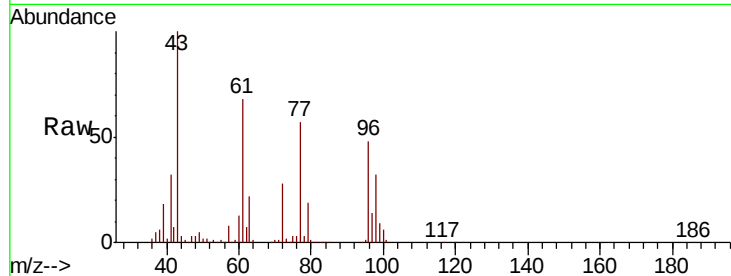
#27  
 cis-1,2-Dichloroethene  
 Concen: 48.19 ug/l  
 RT: 6.83 min Scan# 1630  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 96      | 100   | 497029 |       |       |
| 61      | 140.3 | 0.0    | 285.0 |       |
| 98      | 65.3  | 0.0    | 129.2 |       |

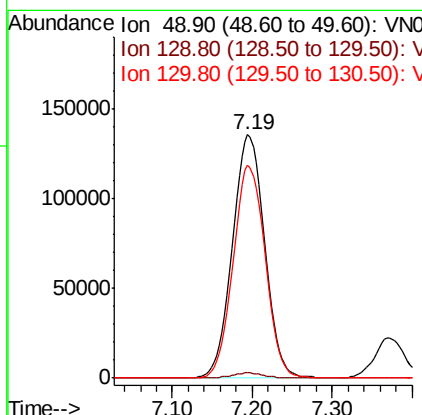
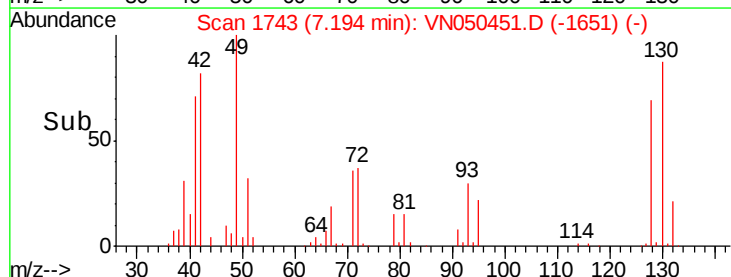
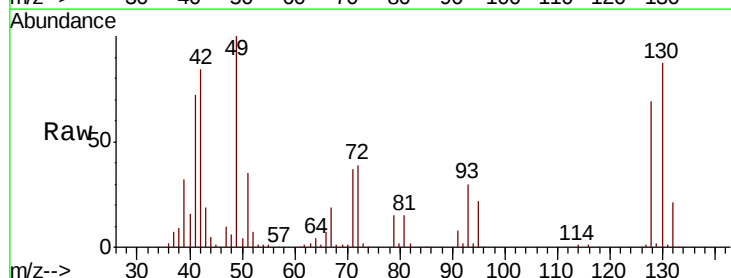
Manual Integrations  
 APPROVED

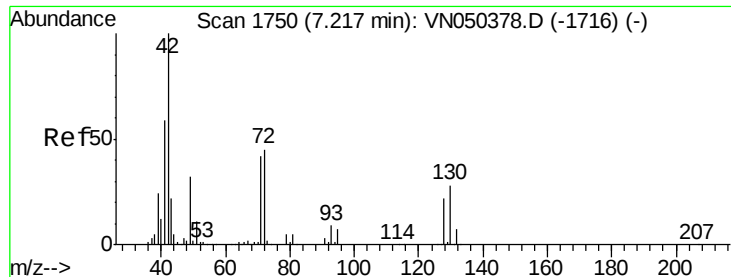
MMDadoda  
 8/9/2018 1:32:12 PM



#28  
 Bromochloromethane  
 Concen: 46.37 ug/l  
 RT: 7.19 min Scan# 1743  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 49      | 100   | 369522 |       |       |
| 129     | 2.0   | 0.0    | 4.0   |       |
| 130     | 87.1  | 66.3   | 99.5  |       |





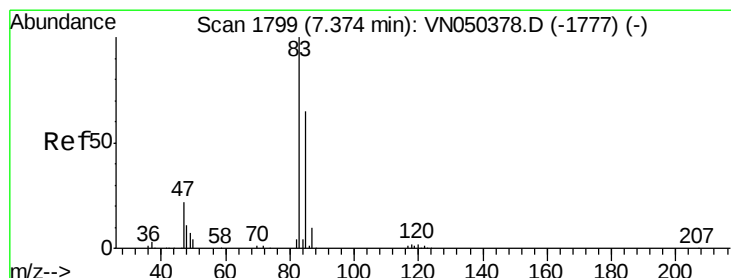
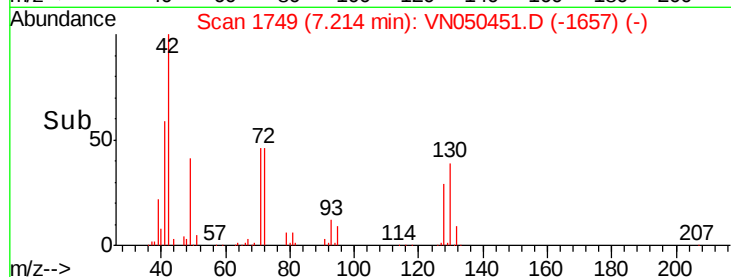
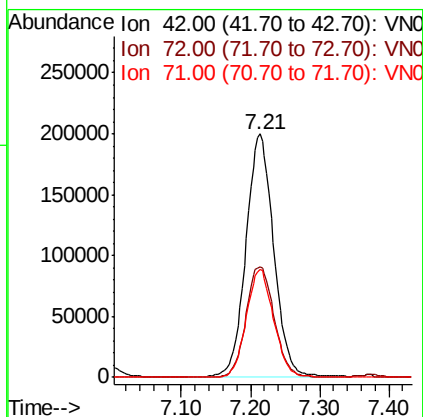
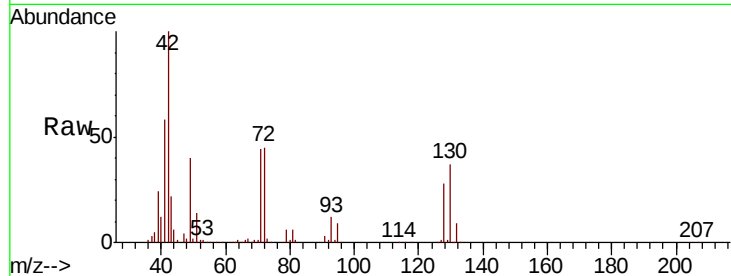
#29  
Tetrahydrofuran  
Concen: 196.43 ug/l  
RT: 7.21 min Scan# 1749  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 46.3  | 35.9  | 53.9  |
| 71      | 43.7  | 33.7  | 50.5  |

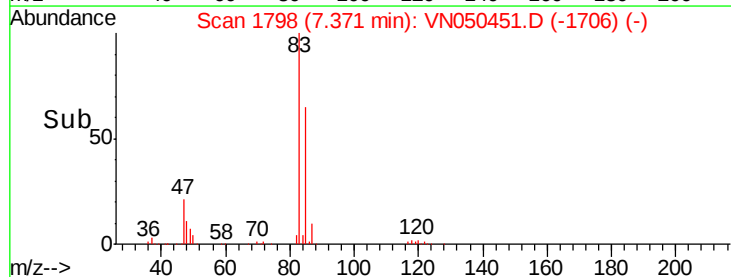
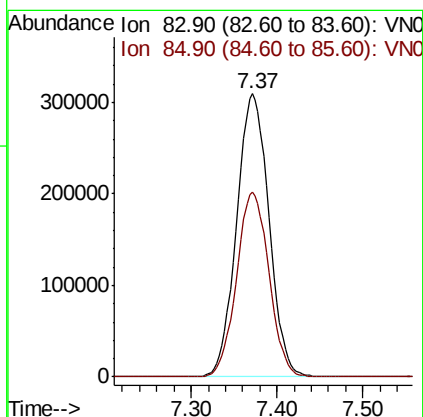
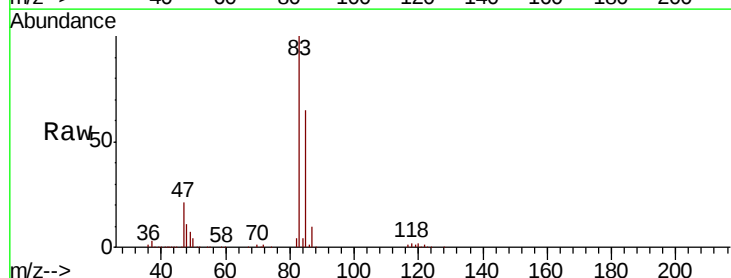
Manual Integrations  
APPROVED

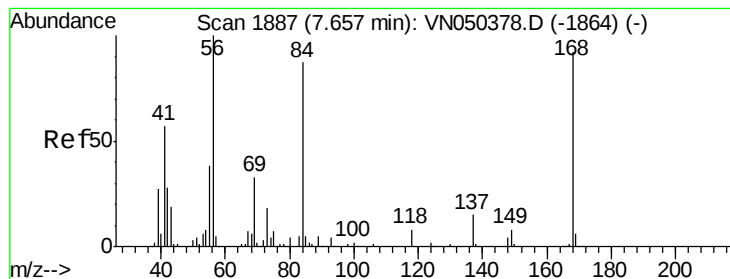
MMDadoda  
8/9/2018 1:32:12 PM



#30  
Chloroform  
Concen: 46.70 ug/l  
RT: 7.37 min Scan# 1798  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 65.2  | 52.5  | 78.7  |





#31

Cyclohexane

Concen: 45.35 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 691857

Ion Ratio Lower Upper

56 100

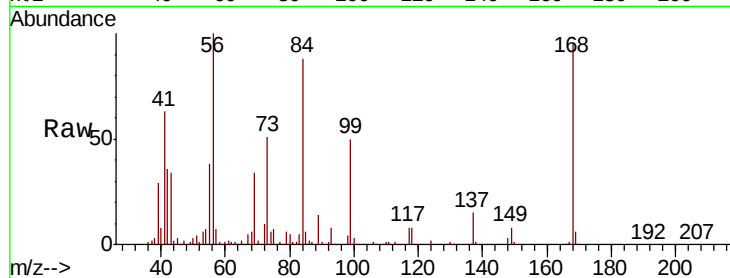
69 33.7 26.2 39.4

84 87.0 67.4 101.0

Manual Integrations  
APPROVED

MMDadoda

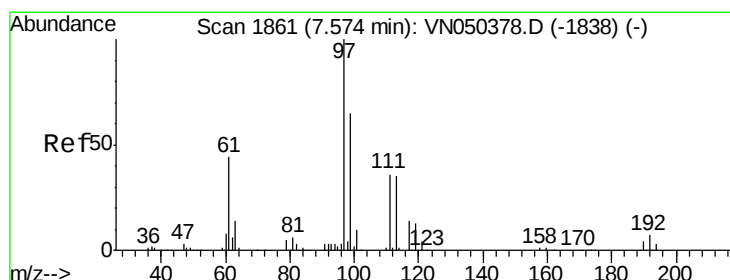
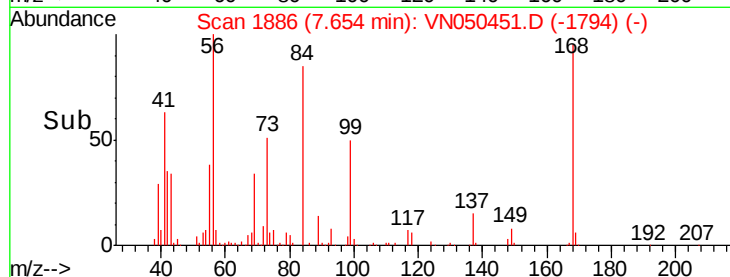
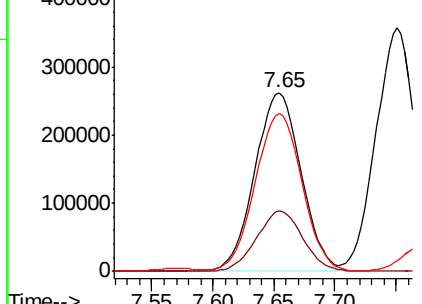
8/9/2018 1:32:12 PM



Abundance Ion 56.00 (55.70 to 56.70): VN050378.D (-1864) (-)

Ion 69.00 (68.70 to 69.70): VN050378.D (-1864) (-)

Ion 84.00 (83.70 to 84.70): VN050378.D (-1864) (-)



#32

1,1,1-Trichloroethane

Concen: 46.41 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

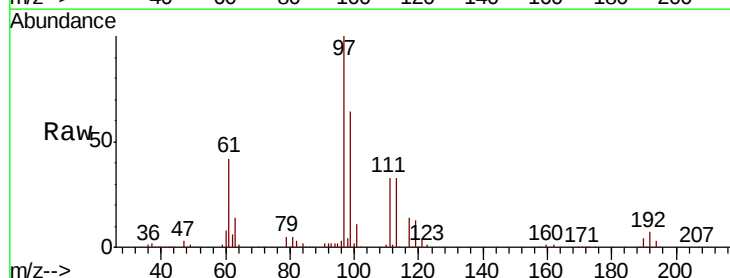
Tgt Ion: 97 Resp: 689705

Ion Ratio Lower Upper

97 100

99 64.5 51.4 77.0

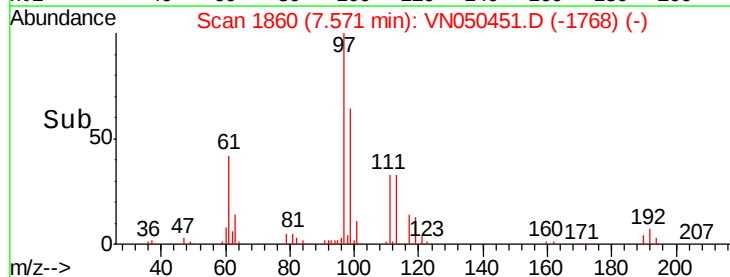
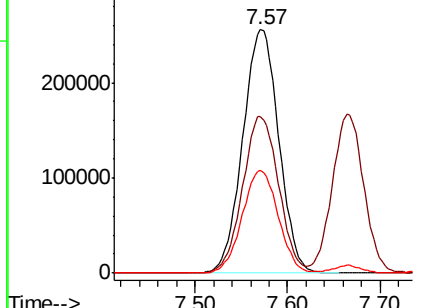
61 42.3 35.4 53.0

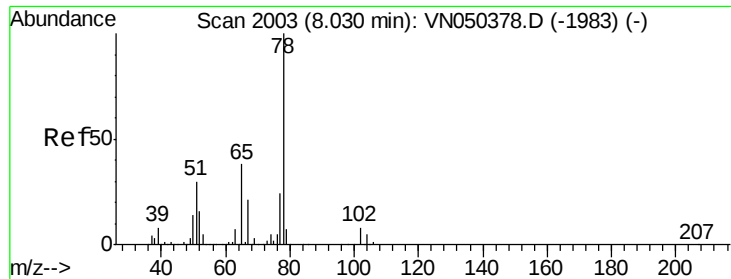


Abundance Ion 96.90 (96.60 to 97.60): VN050378.D (-1838) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1838) (-)

Ion 60.90 (60.60 to 61.60): VN050378.D (-1838) (-)





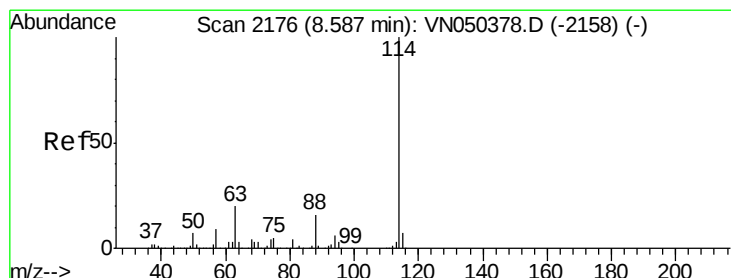
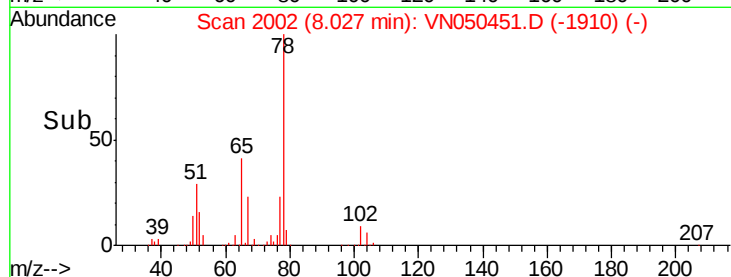
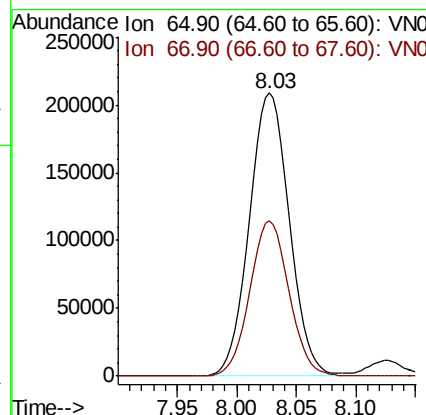
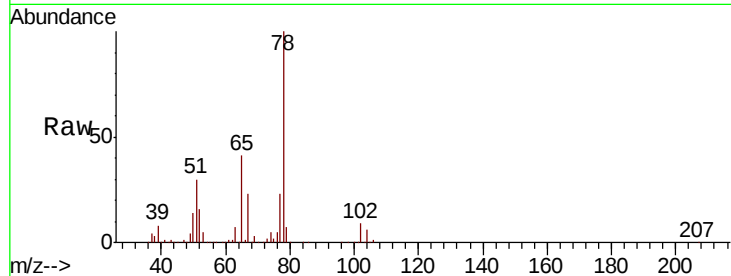
#33  
 1,2-Dichloroethane-d4  
 Concen: 45.86 ug/l  
 RT: 8.03 min Scan# 2002  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.7  | 0.0   | 108.4 |

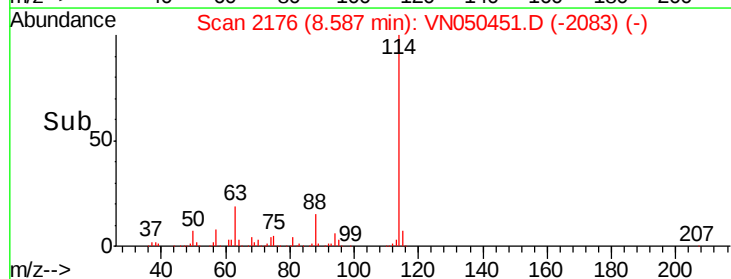
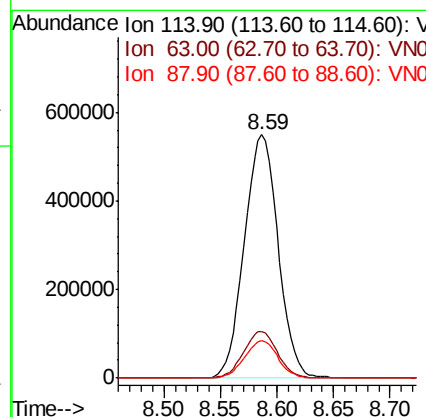
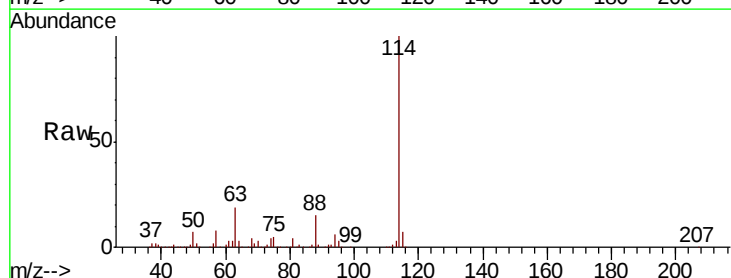
Manual Integrations  
 APPROVED

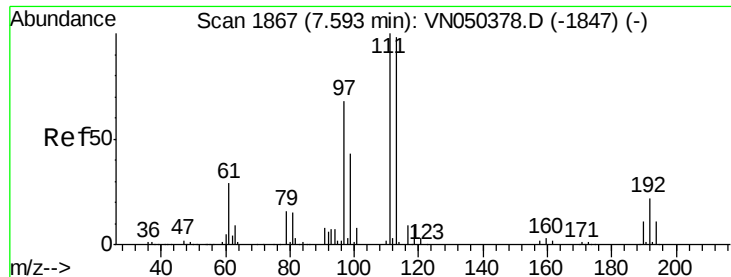
MMDadoda  
 8/9/2018 1:32:12 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.3  | 0.0   | 40.0  |
| 88      | 15.3  | 0.0   | 31.2  |





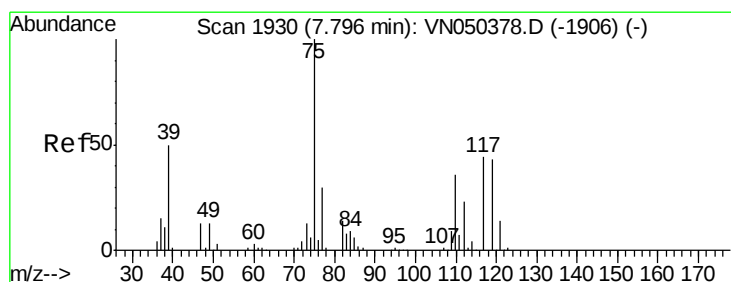
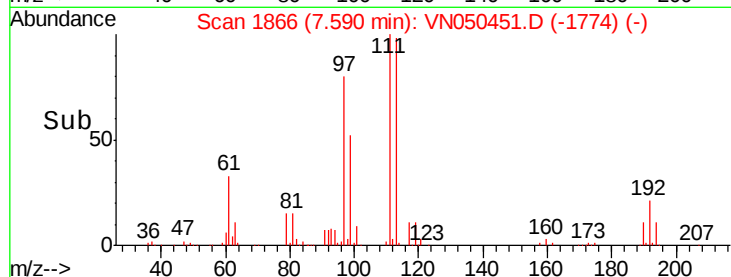
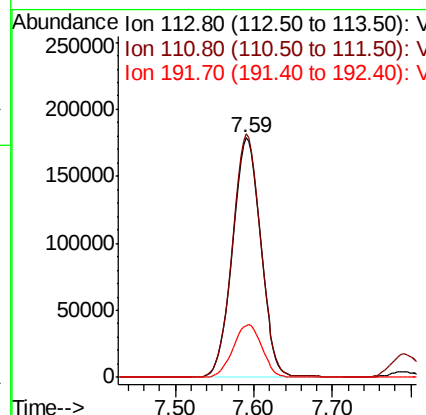
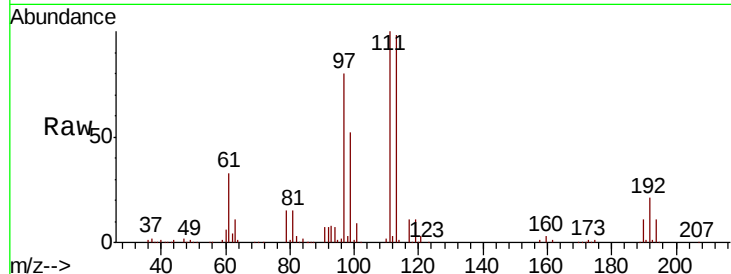
#35  
 Dibromofluoromethane  
 Concen: 48.57 ug/l  
 RT: 7.59 min Scan# 1866  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 446314 |       |       |
| 111     | 101.4 | 80.7   | 121.1 |       |
| 192     | 22.5  | 17.8   | 26.6  |       |

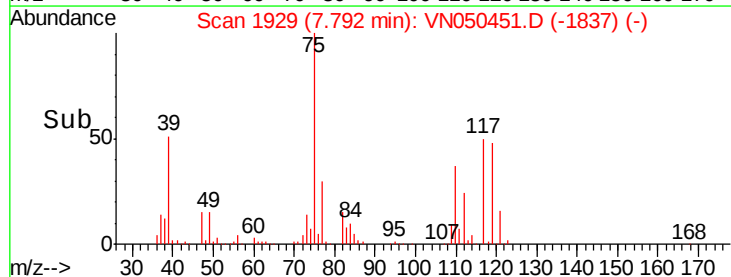
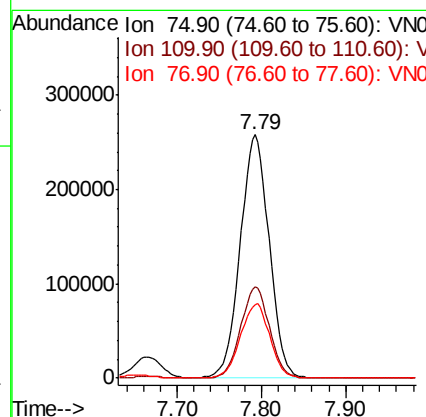
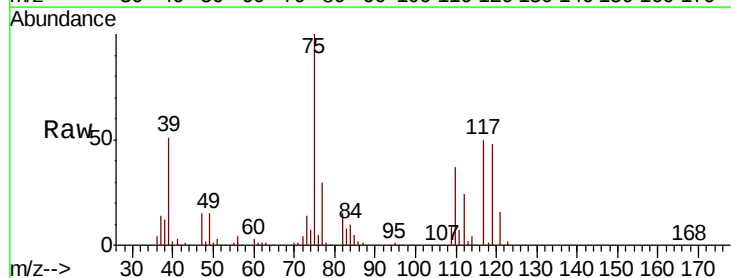
Manual Integrations  
 APPROVED

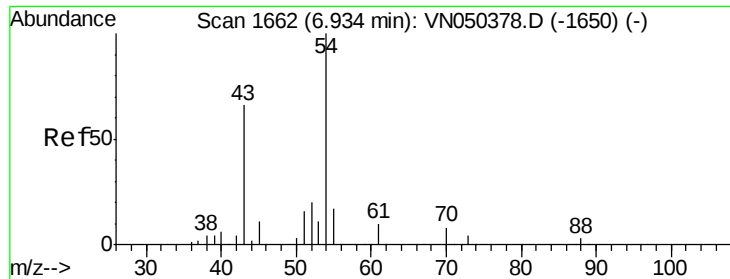
MMDadoda  
 8/9/2018 1:32:12 PM



#36  
 1,1-Dichloropropene  
 Concen: 48.87 ug/l  
 RT: 7.79 min Scan# 1929  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 615017 |       |       |
| 110     | 37.2  | 18.4   | 55.2  |       |
| 77      | 31.2  | 25.3   | 37.9  |       |





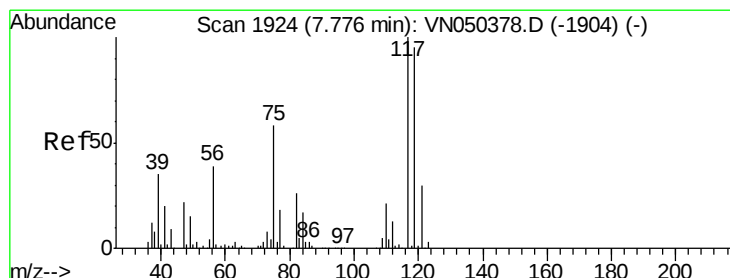
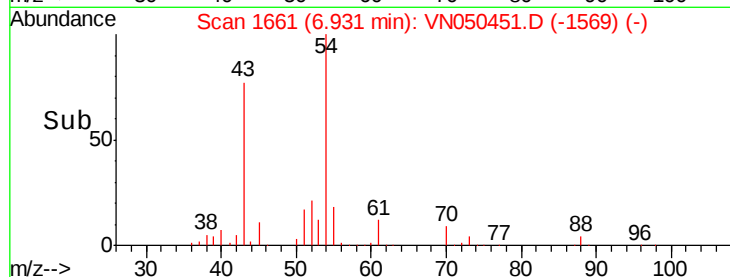
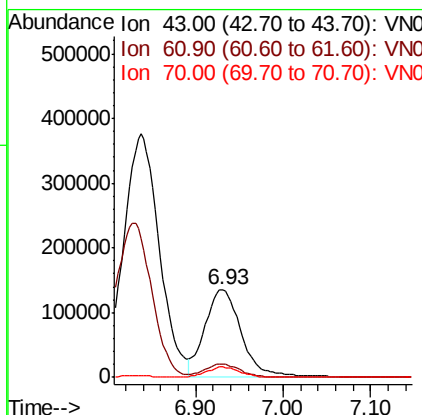
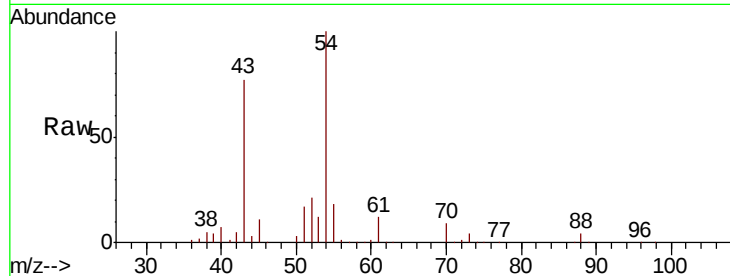
#37  
Ethyl Acetate  
Concen: 42.72 ug/l  
RT: 6.93 min Scan# 1661  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 14.7  | 11.8  | 17.8  |
| 70      | 11.2  | 8.4   | 12.6  |

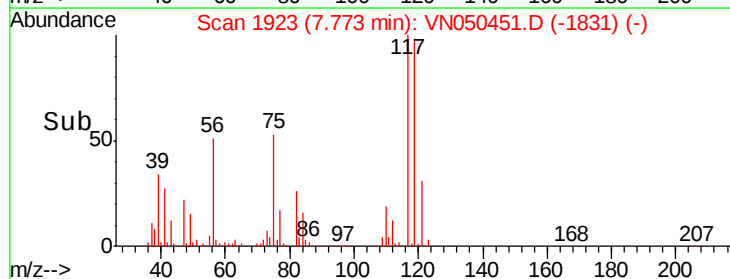
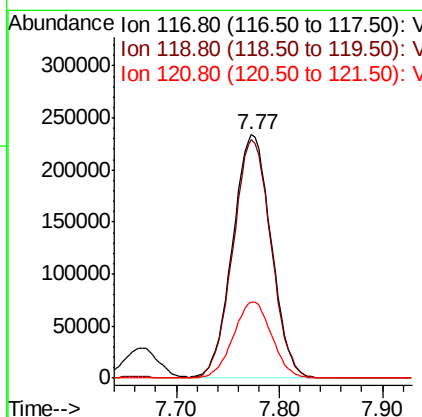
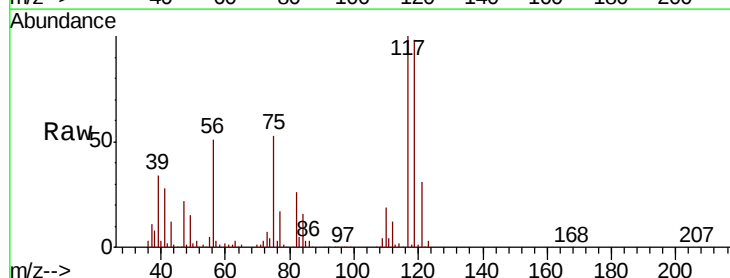
Manual Integrations  
APPROVED

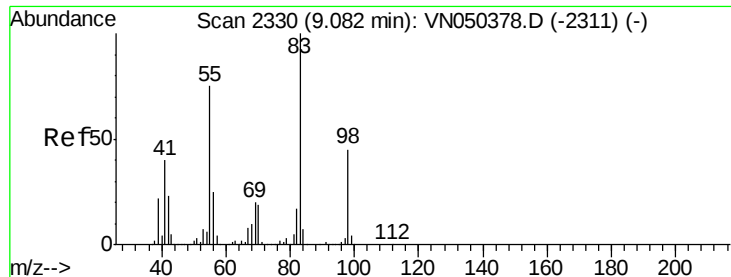
MMDadoda  
8/9/2018 1:32:12 PM



#38  
Carbon Tetrachloride  
Concen: 46.19 ug/l  
RT: 7.77 min Scan# 1923  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 97.8  | 77.4  | 116.0 |
| 121     | 31.4  | 23.9  | 35.9  |





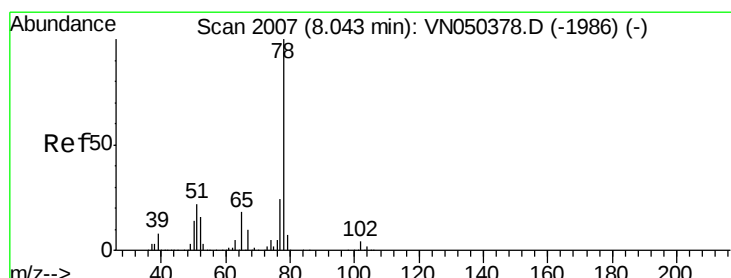
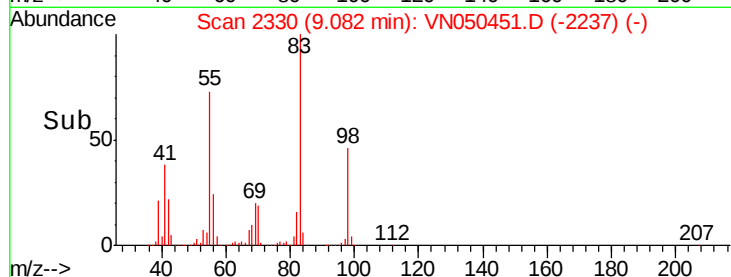
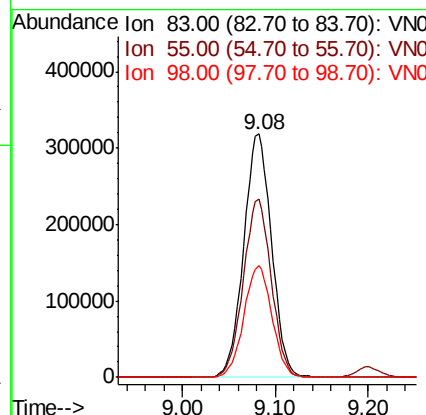
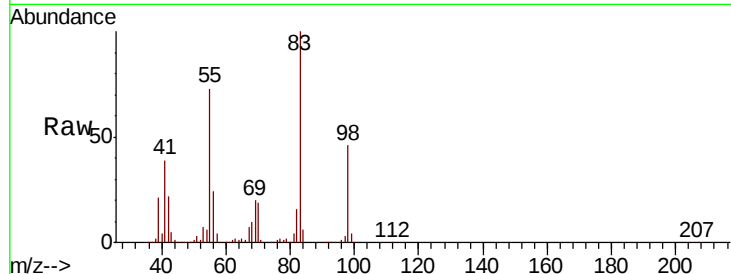
#39  
Methvlcvclohexane  
Concen: 48.27 ug/l  
RT: 9.08 min Scan# 2330  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 73.1  | 61.8  | 92.8  |
| 98      | 45.7  | 36.5  | 54.7  |

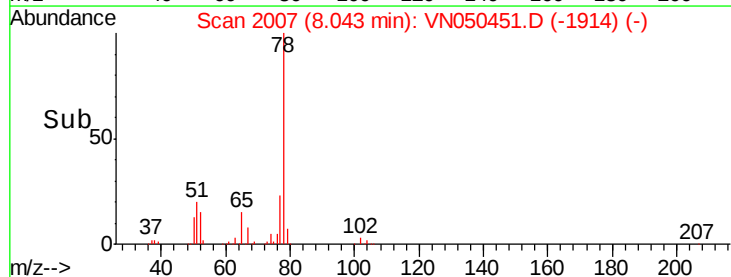
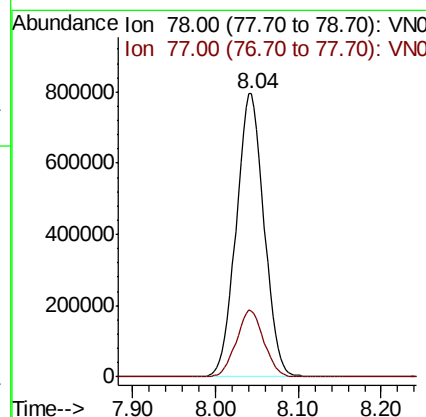
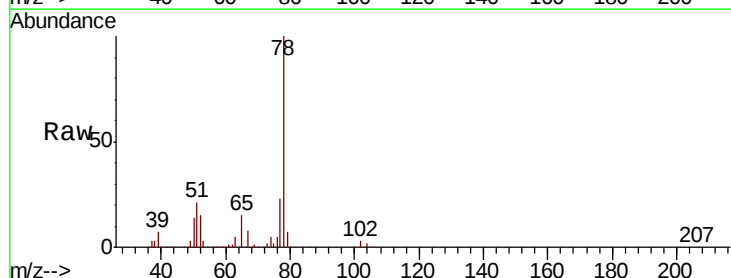
Manual Integrations  
APPROVED

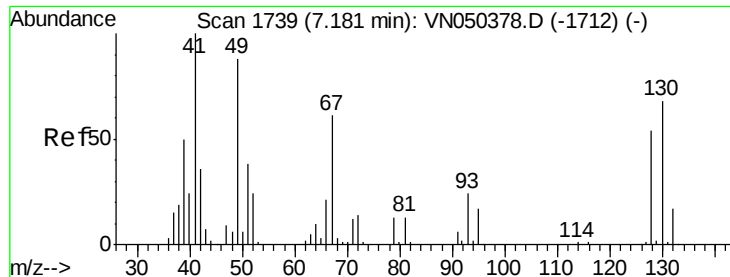
MMDadoda  
8/9/2018 1:32:12 PM



#40  
Benzene  
Concen: 48.01 ug/l  
RT: 8.04 min Scan# 2007  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

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





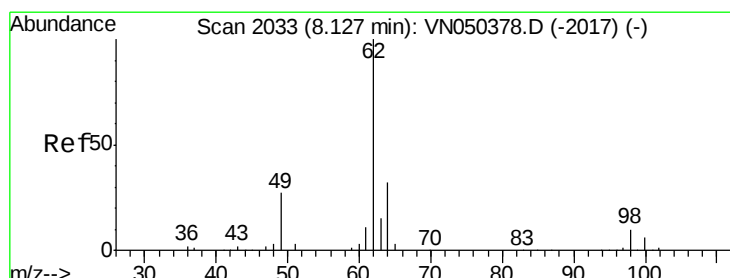
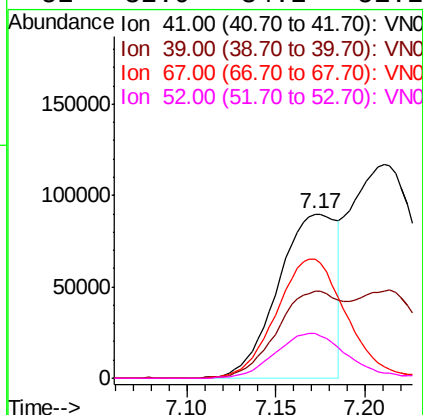
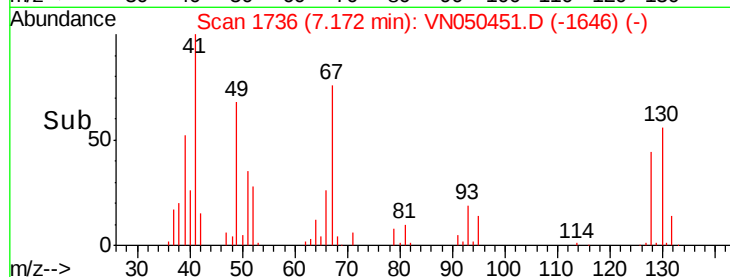
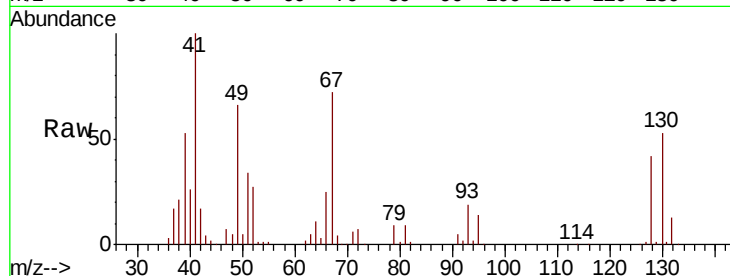
#41  
Methacrylonitrile  
Concen: 42.71 ug/l  
RT: 7.17 min Scan# 1736  
Delta R.T. -0.01 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 60.3  | 55.8  | 83.6  |
| 67      | 86.7  | 84.3  | 126.5 |
| 52      | 32.9  | 34.2  | 51.2# |

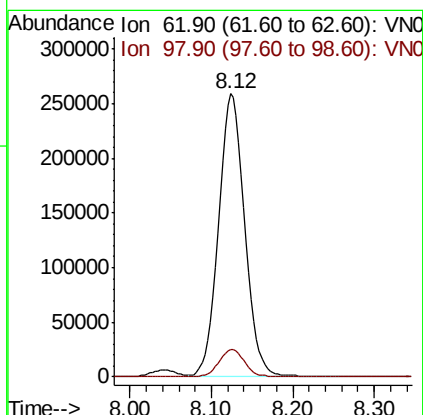
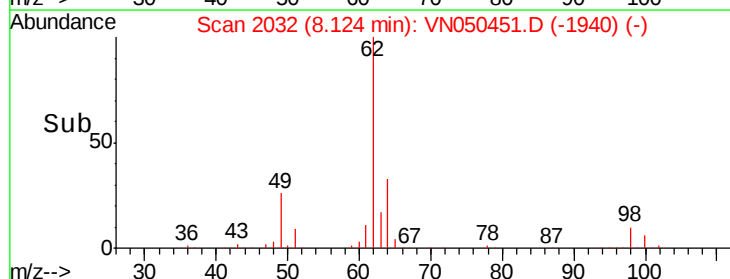
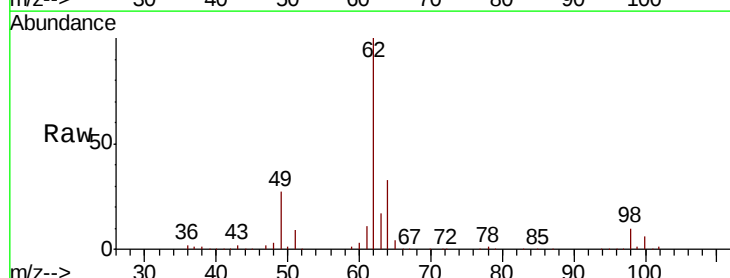
Manual Integrations  
APPROVED

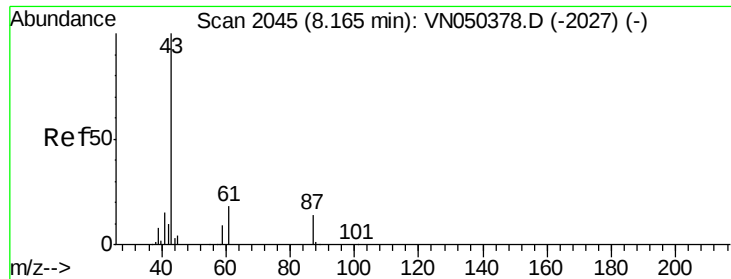
MMDadoda  
8/9/2018 1:32:12 PM



#42  
1,2-Dichloroethane  
Concen: 47.82 ug/l  
RT: 8.12 min Scan# 2032  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 9.5   | 0.0   | 18.8  |





#43

Isopropyl Acetate

Concen: 44.08 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

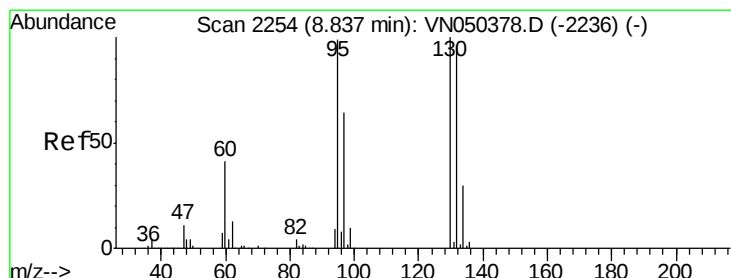
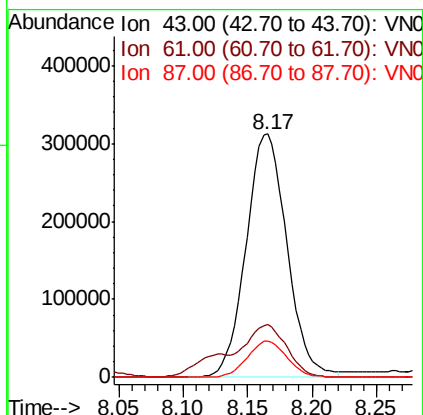
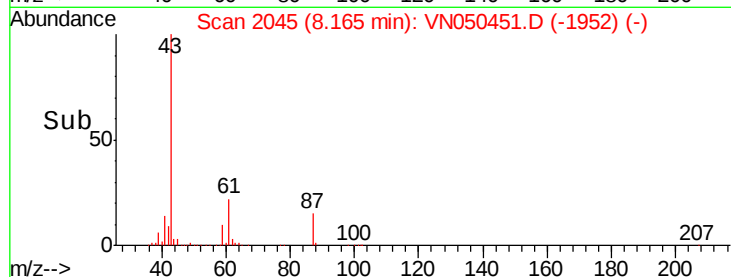
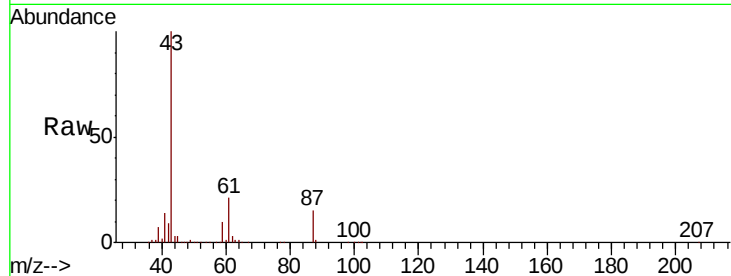
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 689640 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 21.3  | 15.8  | 23.6   |
| 87       | 14.7  | 10.3  | 15.5   |

Manual Integrations  
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#44

Trichloroethene

Concen: 48.48 ug/l

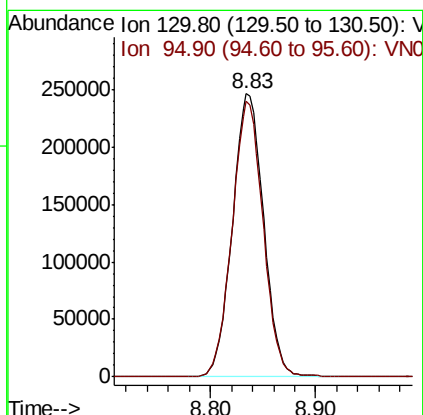
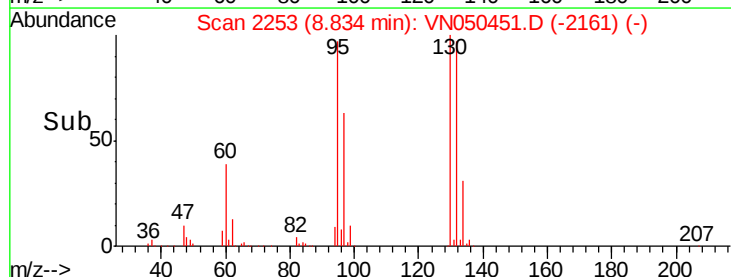
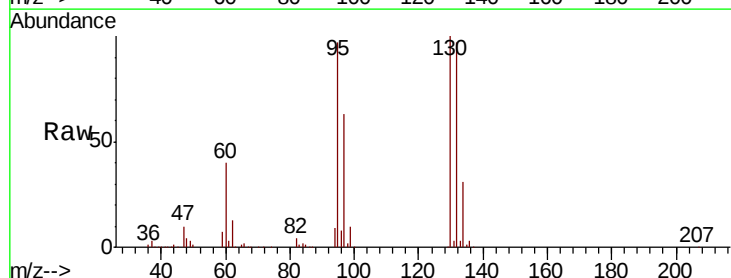
RT: 8.83 min Scan# 2253

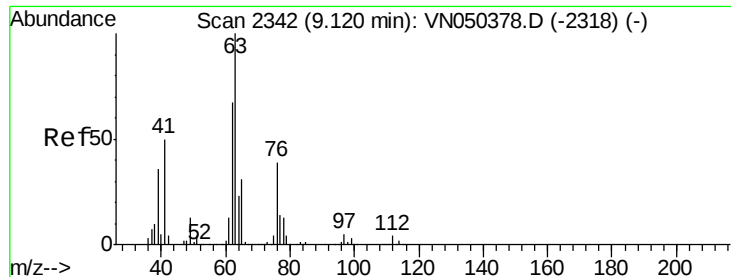
Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 503984 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 97.2  | 0.0   | 194.6  |





#45

1,2-Dichloropropane

Concen: 47.79 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 486038

Ion Ratio Lower Upper

63 100

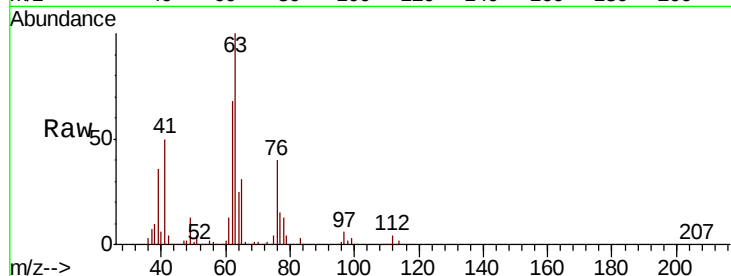
65 30.9 25.5 38.3

Manual Integrations

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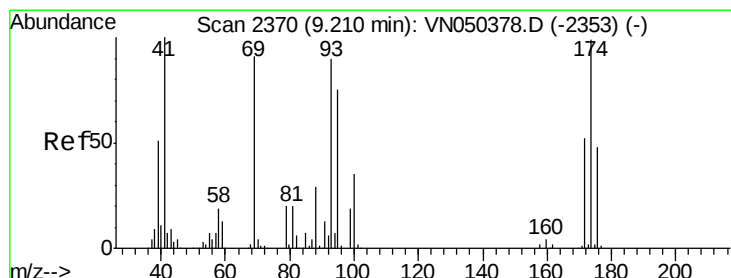
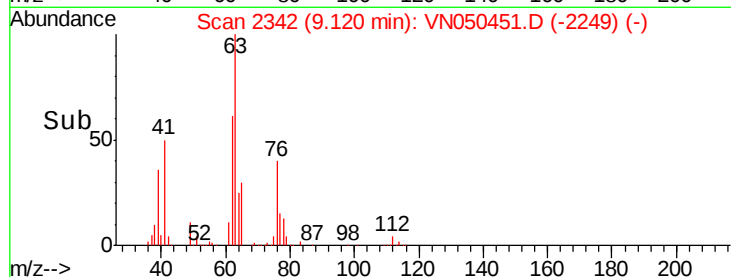
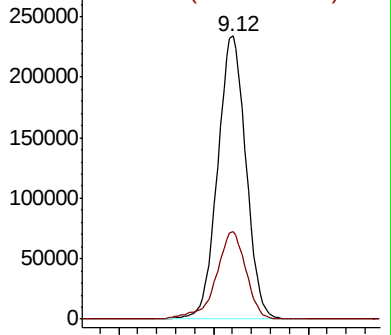
MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 47.15 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

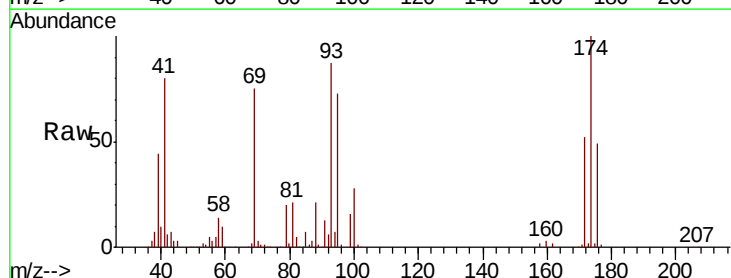
Tgt Ion: 93 Resp: 296116

Ion Ratio Lower Upper

93 100

95 83.3 66.6 100.0

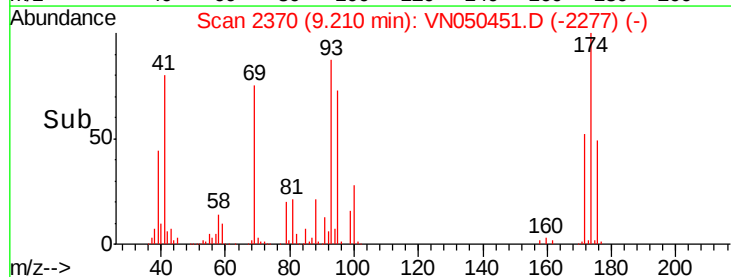
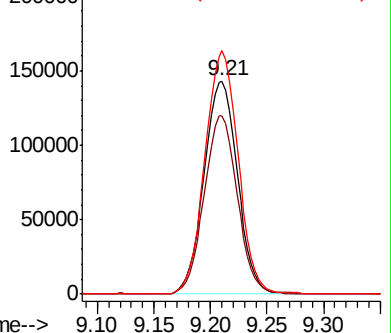
174 113.7 87.1 130.7

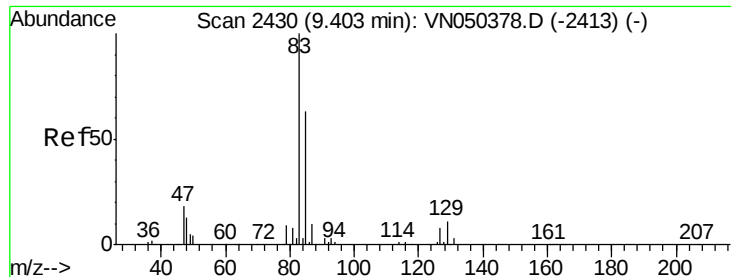


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





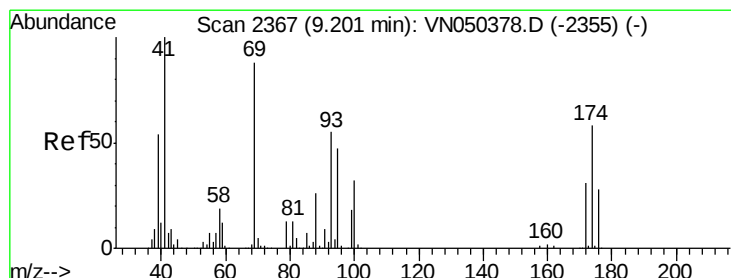
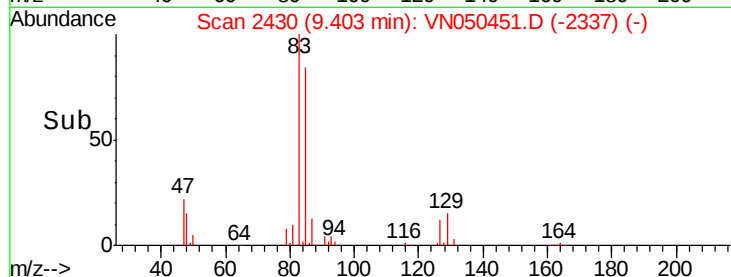
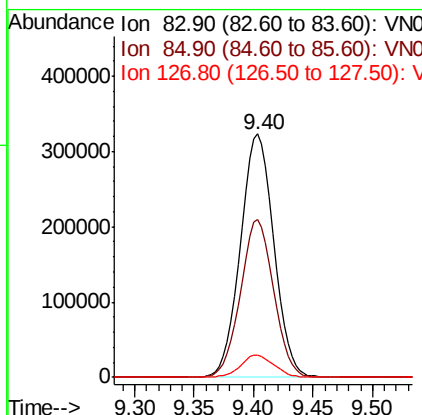
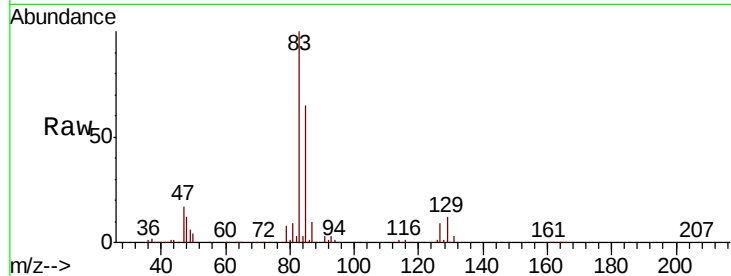
#47  
Bromodichloromethane  
Concen: 48.42 ug/l  
RT: 9.40 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 83      | 100   |      |       |       |
| 85      | 64.8  | 51.1 | 76.7  |       |
| 127     | 9.3   | 7.0  | 10.4  |       |

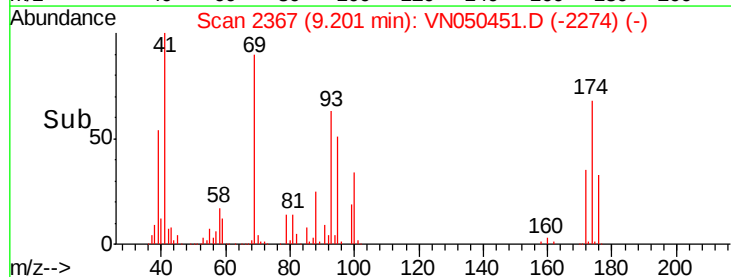
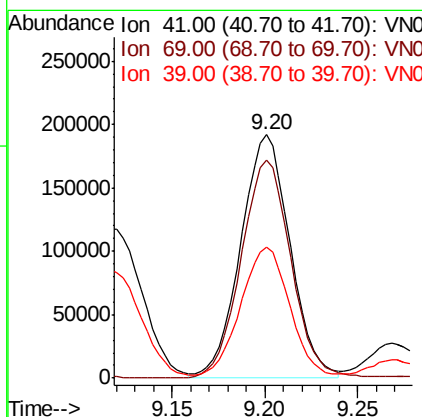
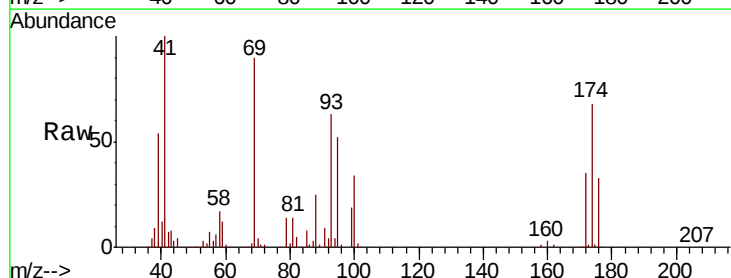
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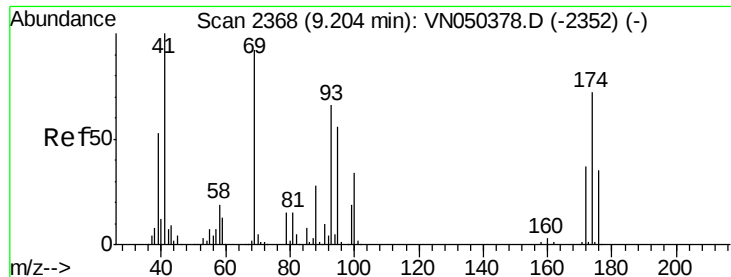
MMDadoda  
8/9/2018 1:32:12 PM



#48  
Methyl methacrylate  
Concen: 45.16 ug/l  
RT: 9.20 min Scan# 2367  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 41      | 100   |      |       |       |
| 69      | 91.7  | 70.6 | 105.8 |       |
| 39      | 53.9  | 43.9 | 65.9  |       |





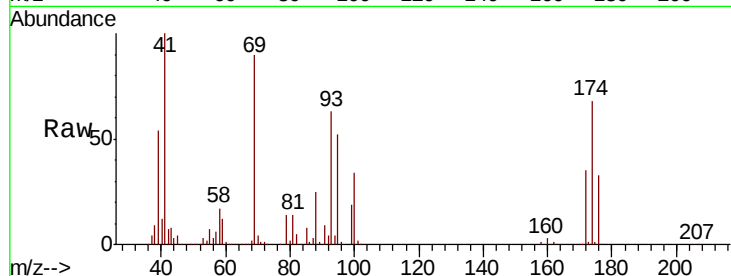
#49  
1,4-Dioxane  
Concen: 792.61 ug/l  
RT: 9.20 min Scan# 2367  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

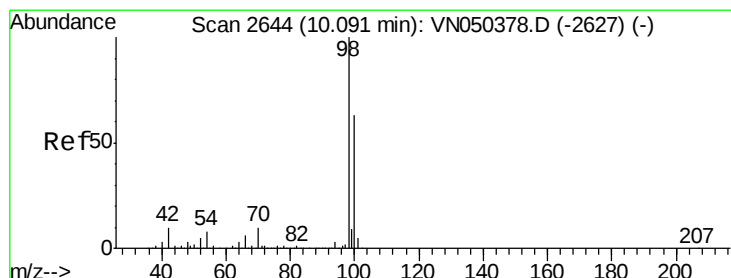
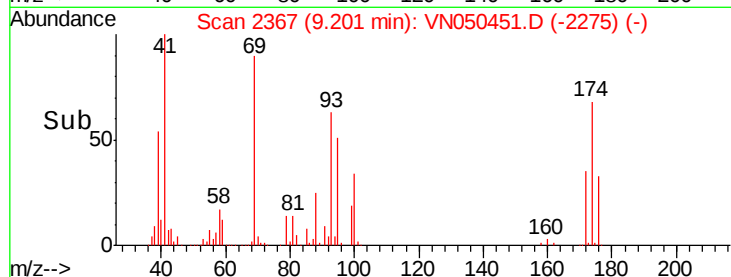
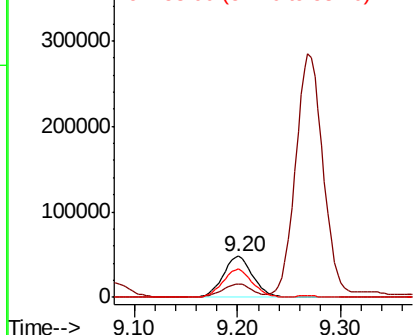
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 31.5  | 26.9  | 40.3  |
| 58      | 67.9  | 57.3  | 85.9  |

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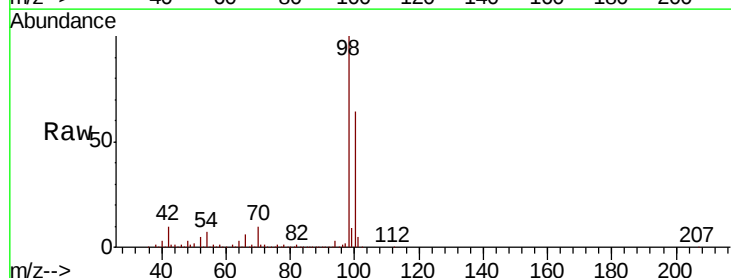


Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0

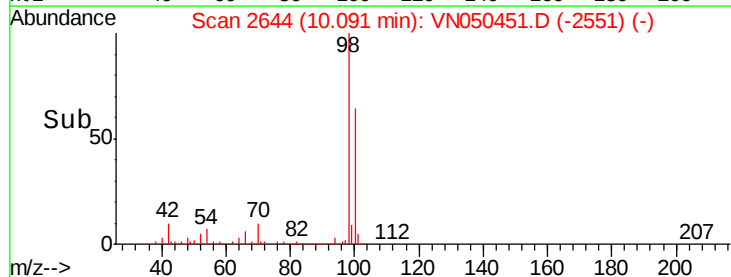
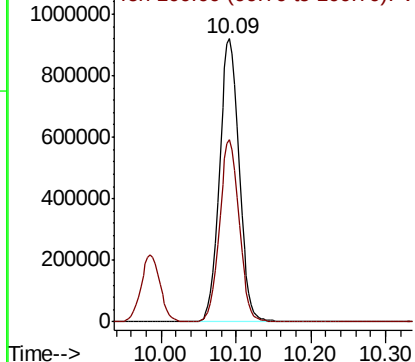


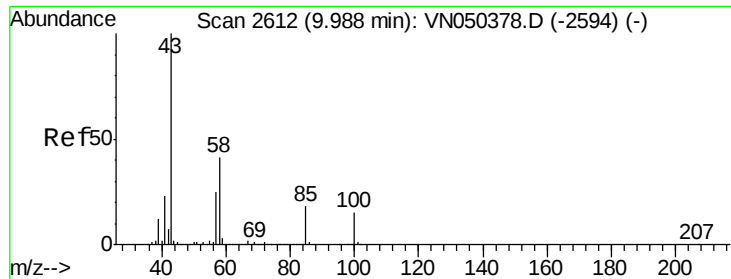
#50  
Toluene-d8  
Concen: 48.33 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.0  | 50.7  | 76.1  |



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 213.15 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 2401383

Ion Ratio Lower Upper

43 100

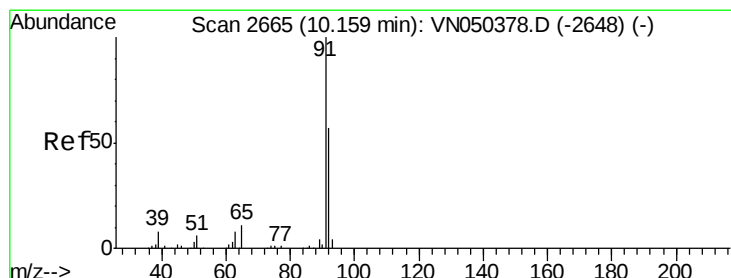
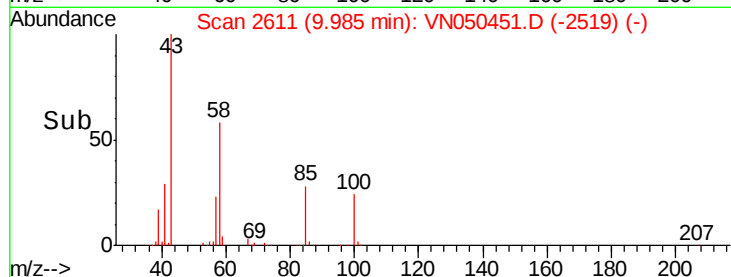
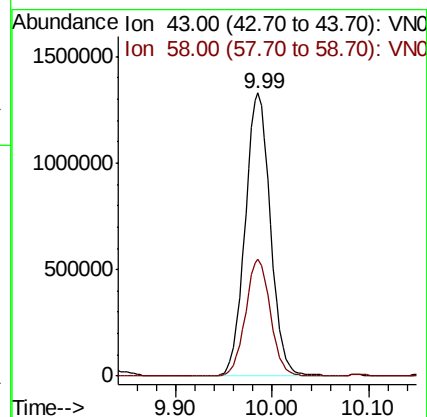
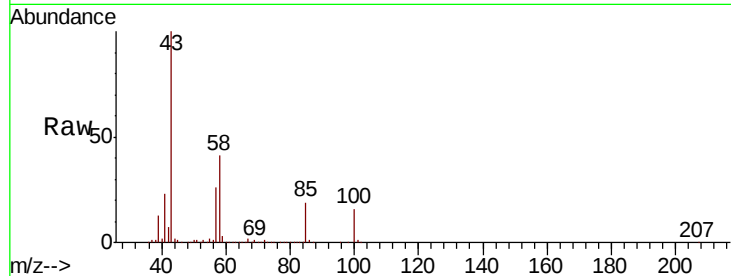
58 40.8 31.9 47.9

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#52

Toluene

Concen: 50.17 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050451.D

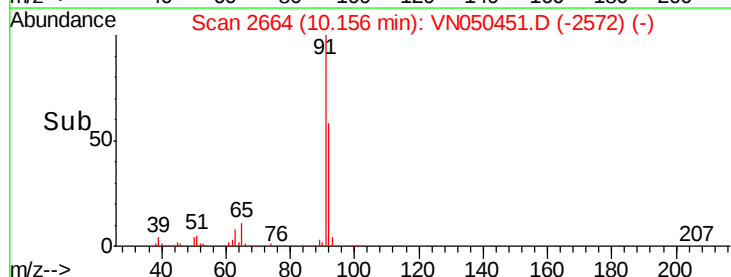
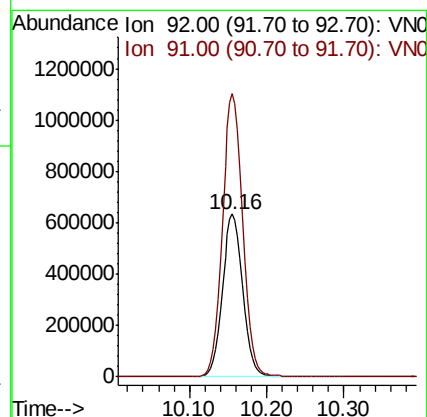
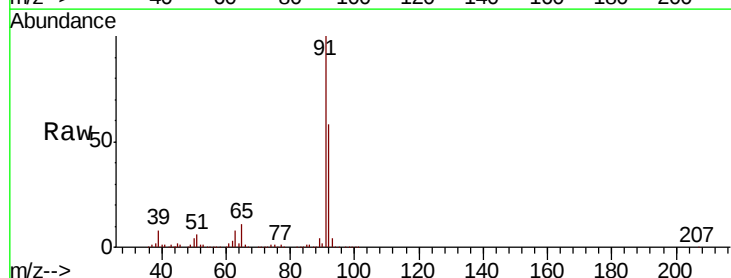
Acq: 8 Aug 2018 11:13

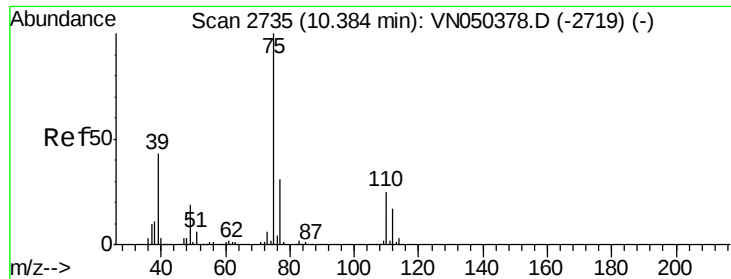
Tgt Ion: 92 Resp: 1165775

Ion Ratio Lower Upper

92 100

91 174.1 140.3 210.5





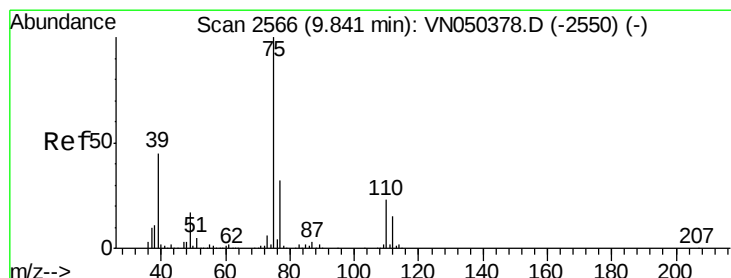
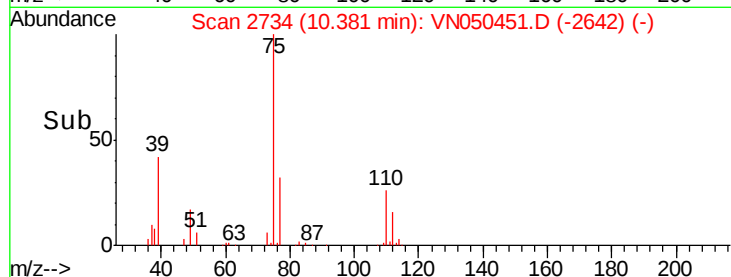
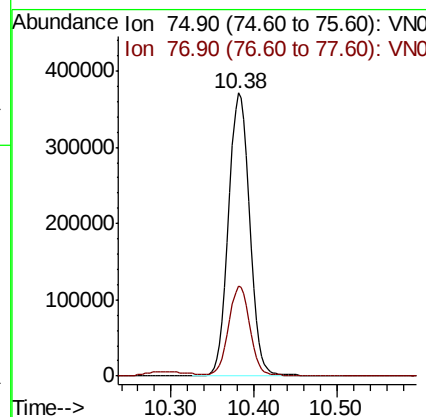
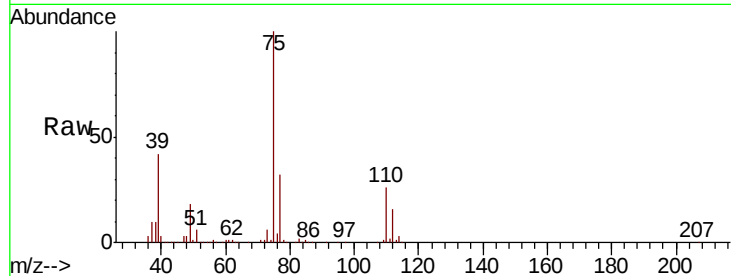
#53  
t-1,3-Dichloropropene  
Concen: 50.50 ug/l  
RT: 10.38 min Scan# 2734  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.7  | 24.9  | 37.3  |

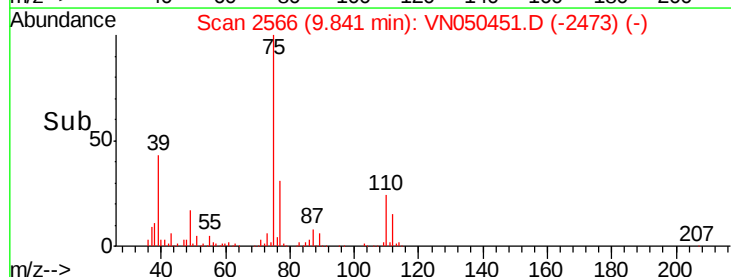
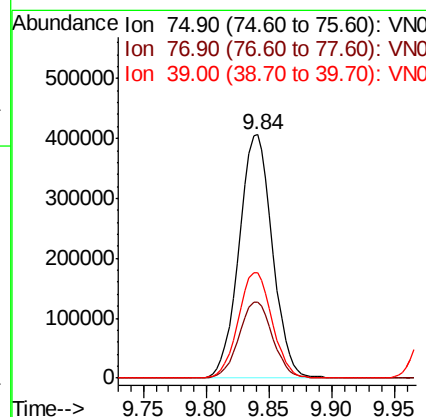
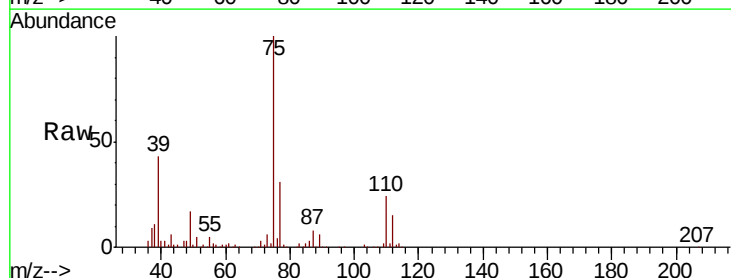
Manual Integrations  
APPROVED

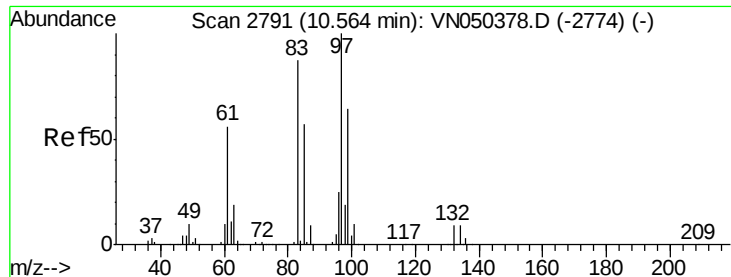
MMDadoda  
8/9/2018 1:32:12 PM



#54  
cis-1,3-Dichloropropene  
Concen: 51.52 ug/l  
RT: 9.84 min Scan# 2566  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.5  | 25.5  | 38.3  |
| 39      | 43.2  | 36.6  | 55.0  |





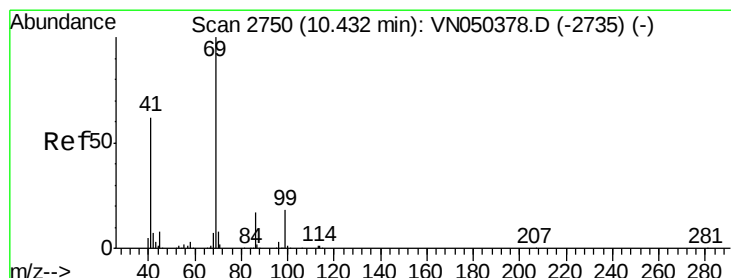
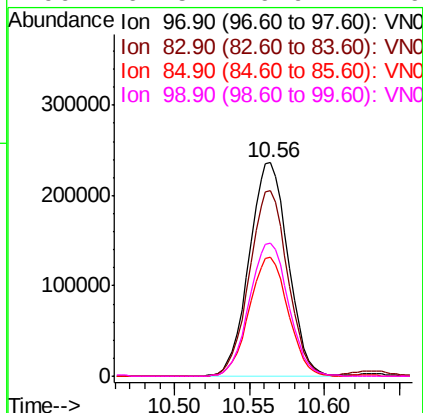
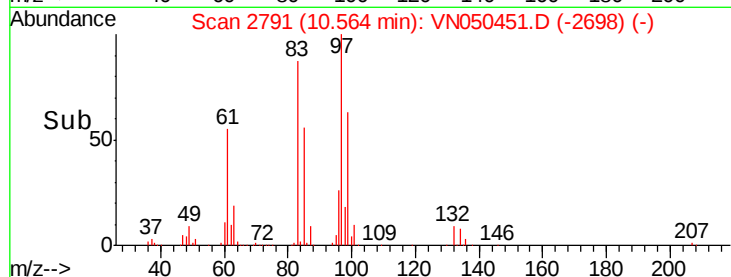
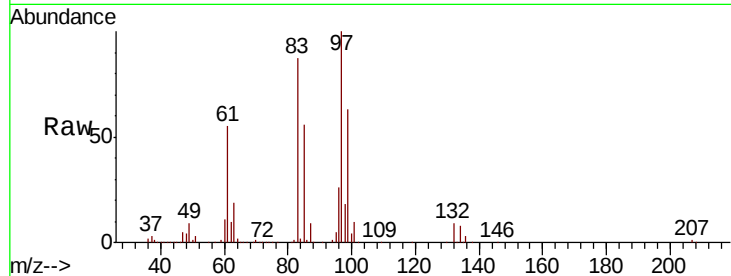
#55  
 1,1,2-Trichloroethane  
 Concen: 47.13 ug/l  
 RT: 10.56 min Scan# 2791  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | 97    | Resp  | 427590 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 97      | 100   |       |        |
| 83      | 86.7  | 69.2  | 103.8  |
| 85      | 55.6  | 44.0  | 66.0   |
| 99      | 62.5  | 49.9  | 74.9   |

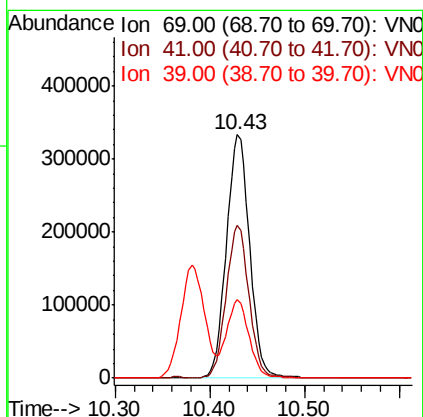
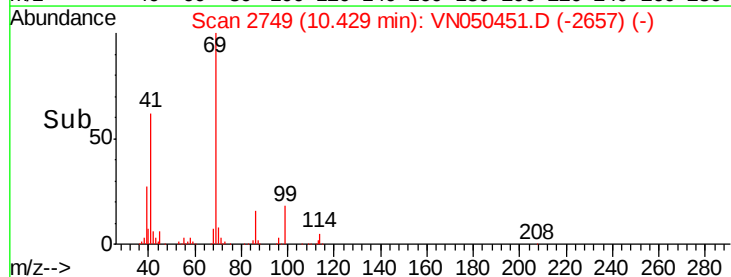
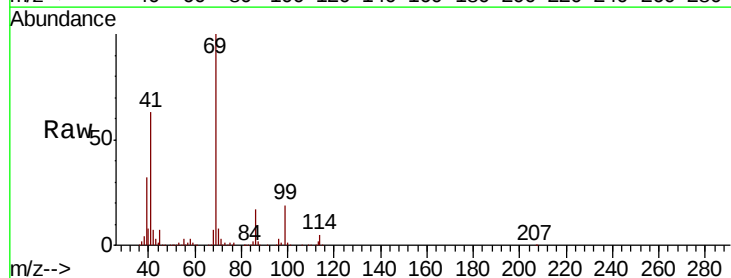
Manual Integrations  
 APPROVED

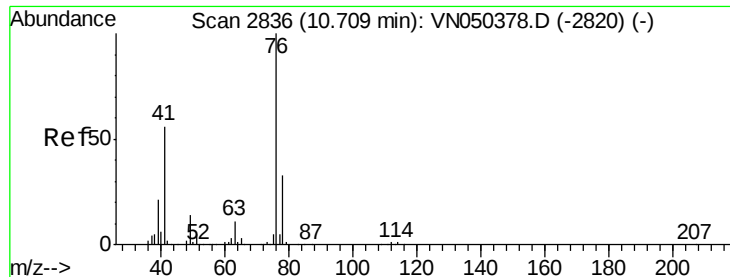
MMDadoda  
 8/9/2018 1:32:12 PM



#56  
 Ethyl methacrylate  
 Concen: 44.63 ug/l  
 RT: 10.43 min Scan# 2749  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | 69    | Resp  | 570550 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 69      | 100   |       |        |
| 41      | 60.9  | 51.0  | 76.4   |
| 39      | 31.2  | 26.6  | 40.0   |





#57

1,3-Dichloropropane

Concen: 47.91 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 713366

Ion Ratio Lower Upper

76 100

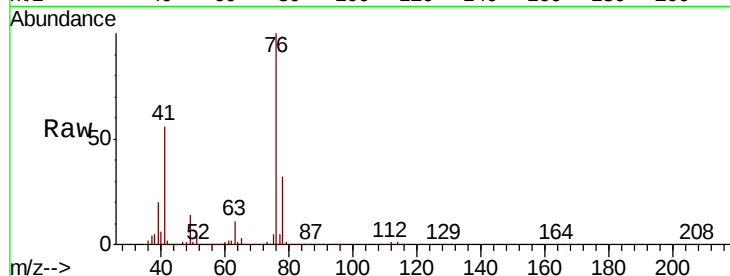
78 32.3 25.7 38.5

Manual Integrations

APPROVED

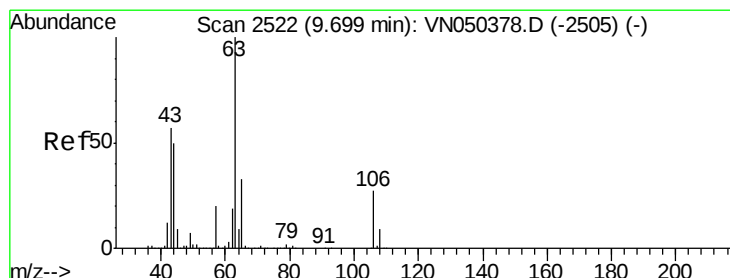
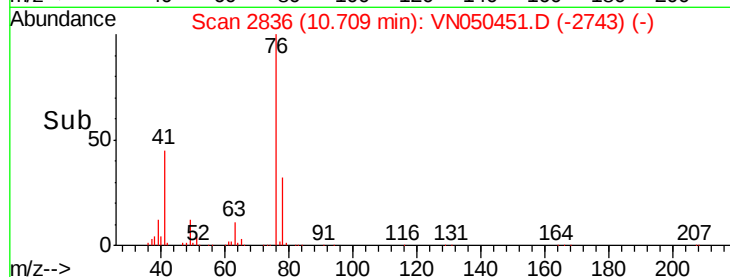
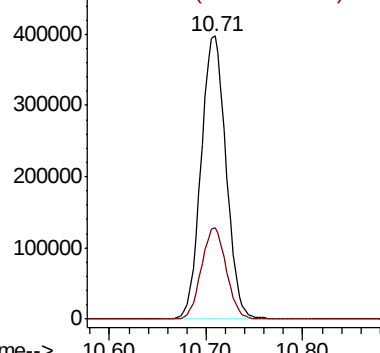
MMDadoda

8/9/2018 1:32:12 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 220.03 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VN050451.D

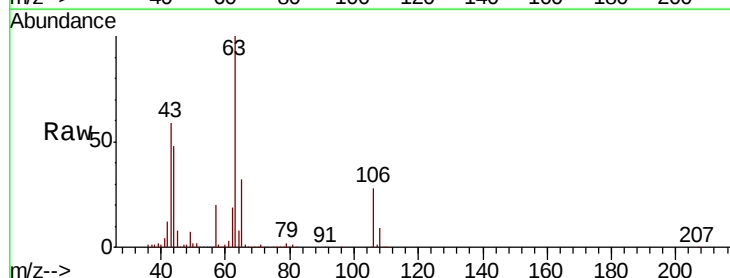
Acq: 8 Aug 2018 11:13

Tgt Ion: 63 Resp: 1311250

Ion Ratio Lower Upper

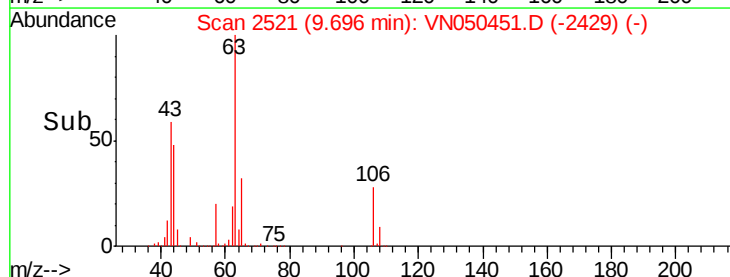
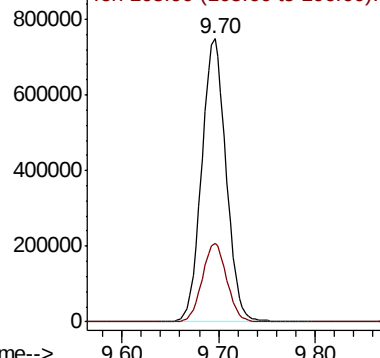
63 100

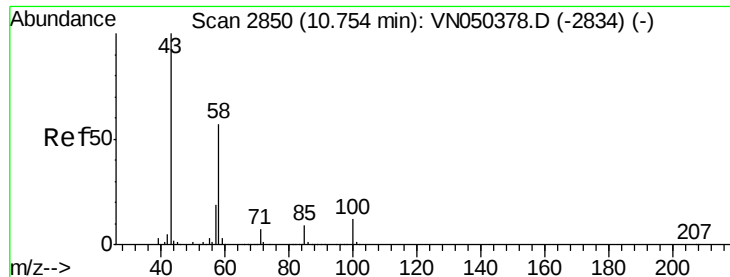
106 28.0 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 215.32 ug/l

RT: 10.75 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1692929

Ion Ratio Lower Upper

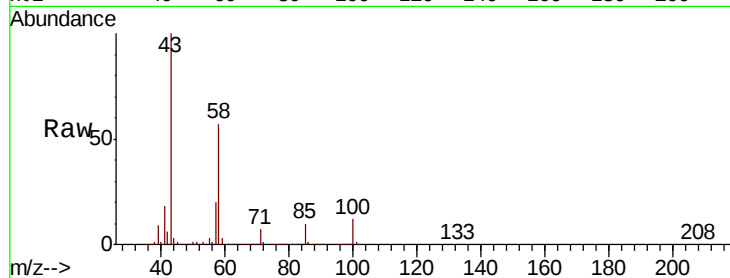
43 100

58 57.0 27.6 82.7

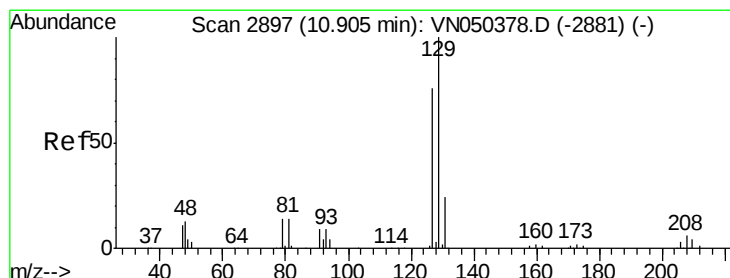
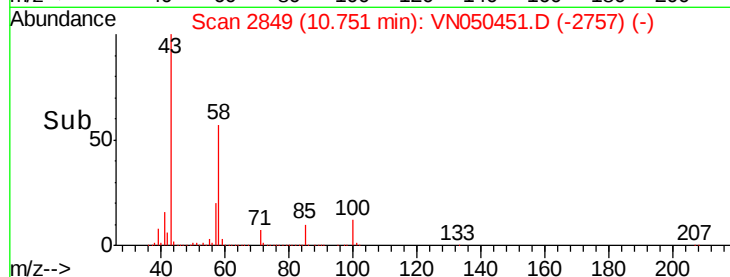
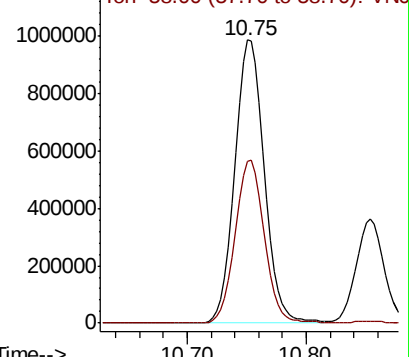
Manual Integrations  
APPROVED

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Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2834) (-)



#60

Dibromochloromethane

Concen: 48.73 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VN050451.D

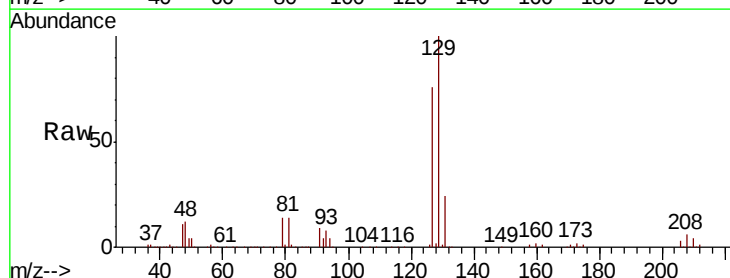
Acq: 8 Aug 2018 11:13

Tgt Ion: 129 Resp: 487001

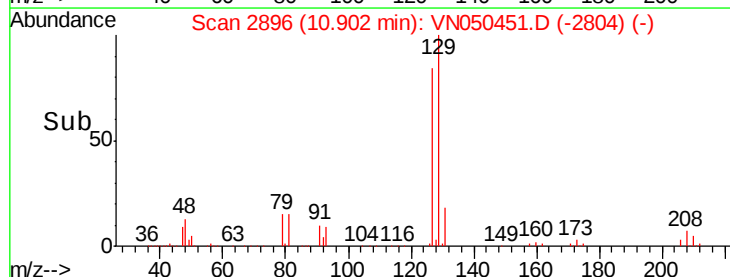
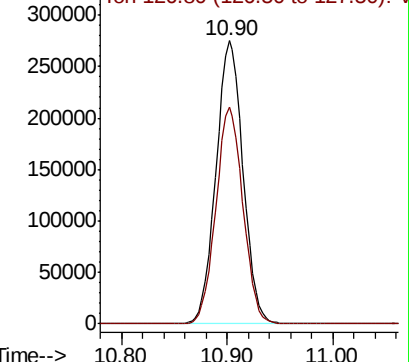
Ion Ratio Lower Upper

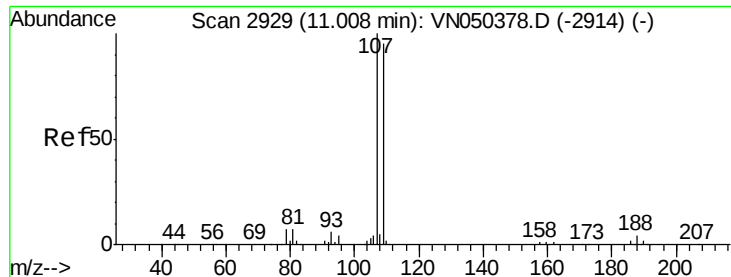
129 100

127 76.8 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): VN050378.D (-2881) (-)





#61

1,2-Dibromoethane

Concen: 47.83 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 427717

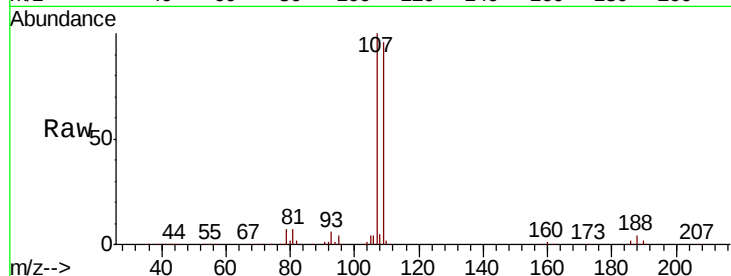
Ion Ratio Lower Upper

107 100

109 95.9 74.6 112.0

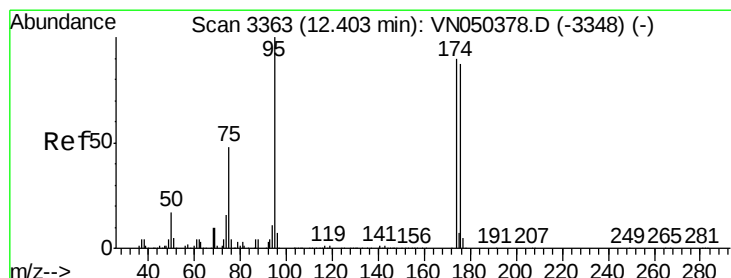
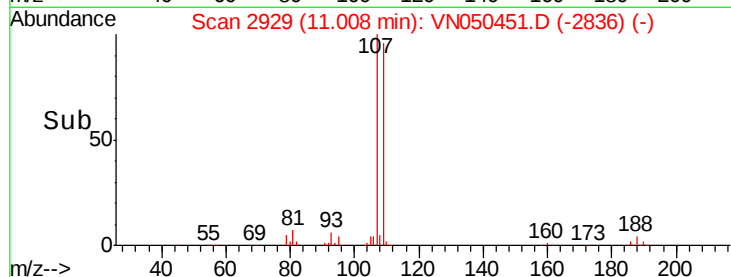
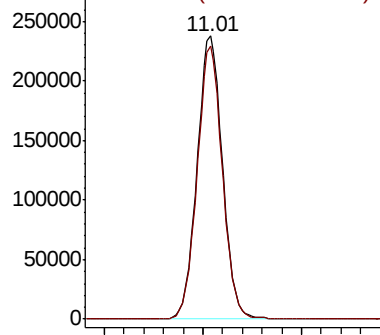
Manual Integrations  
APPROVED

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8/9/2018 1:32:12 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

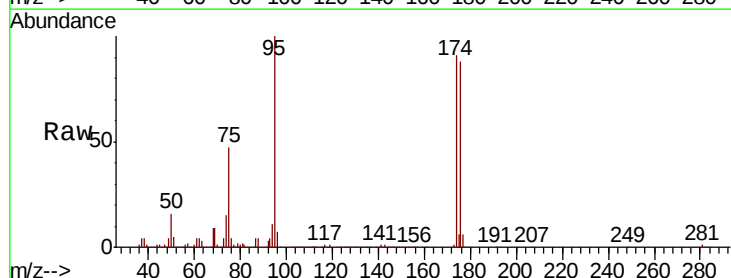
Tgt Ion: 95 Resp: 581754

Ion Ratio Lower Upper

95 100

174 90.7 0.0 178.2

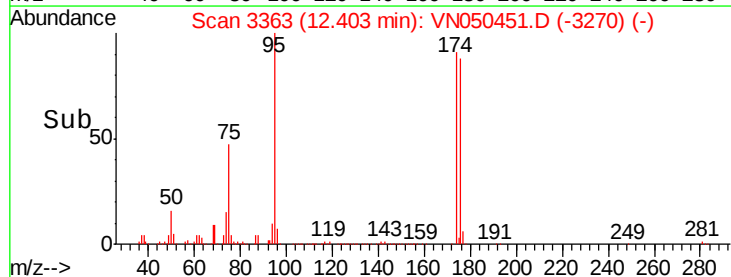
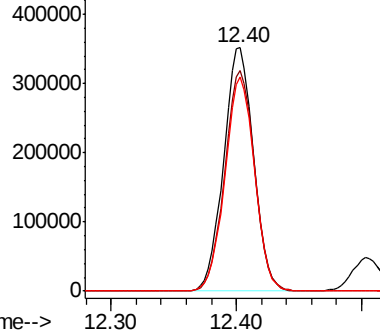
176 87.2 0.0 173.4

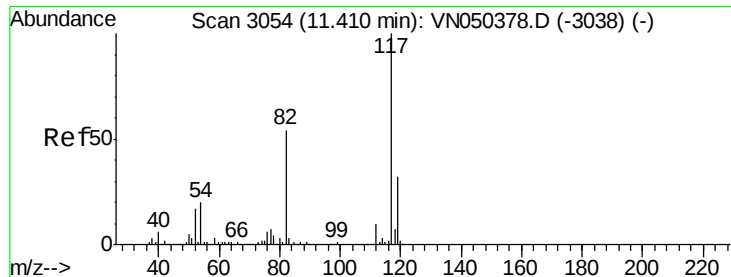


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





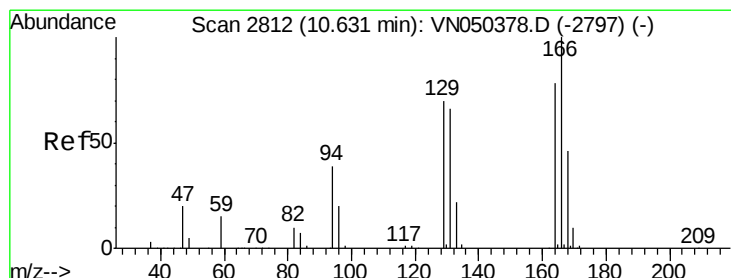
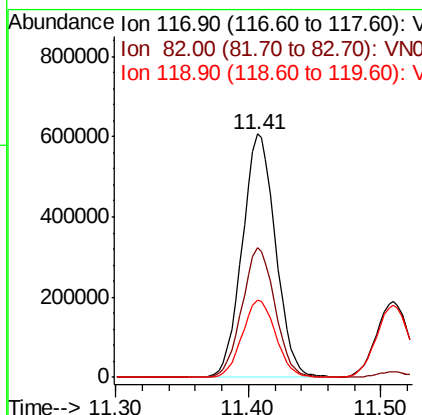
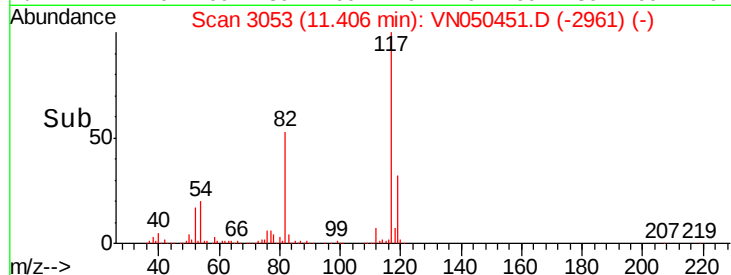
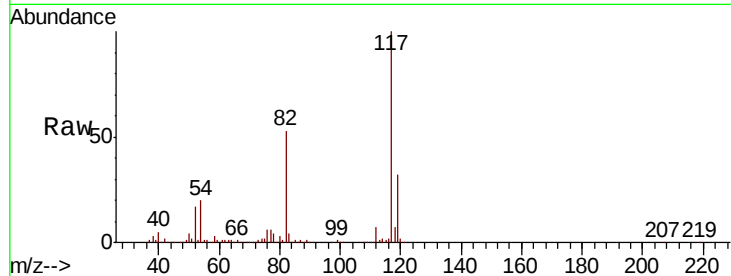
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 3053  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.0  | 43.7  | 65.5  |
| 119     | 31.9  | 26.1  | 39.1  |

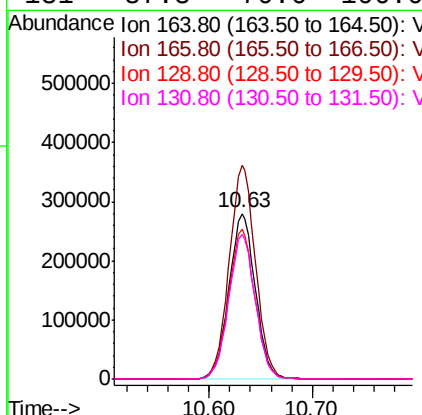
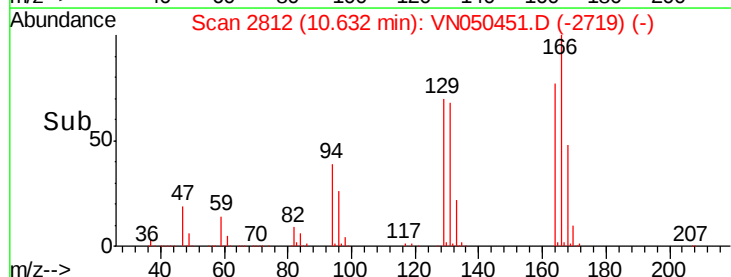
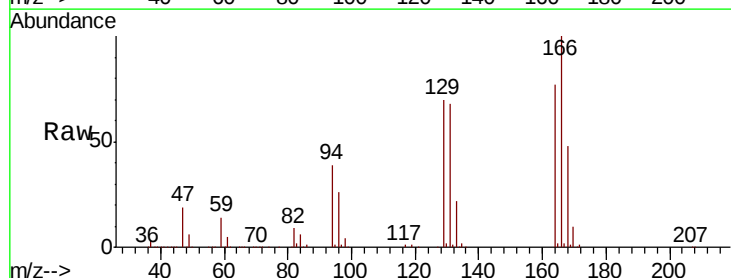
Manual Integrations  
APPROVED

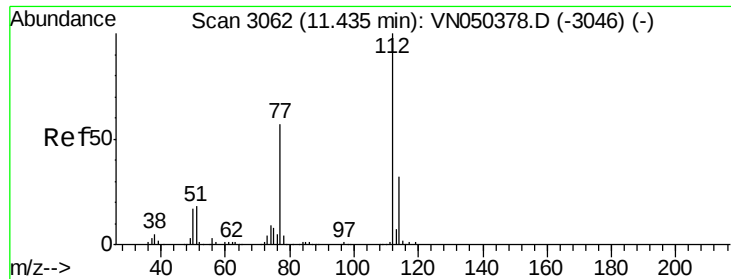
MMDadoda  
8/9/2018 1:32:12 PM



#64  
Tetrachloroethene  
Concen: 50.39 ug/l  
RT: 10.63 min Scan# 2812  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 129.3 | 102.1 | 153.1 |
| 129     | 90.9  | 73.2  | 109.8 |
| 131     | 87.8  | 70.6  | 106.0 |





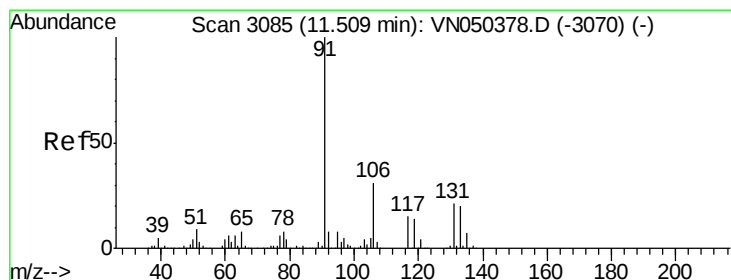
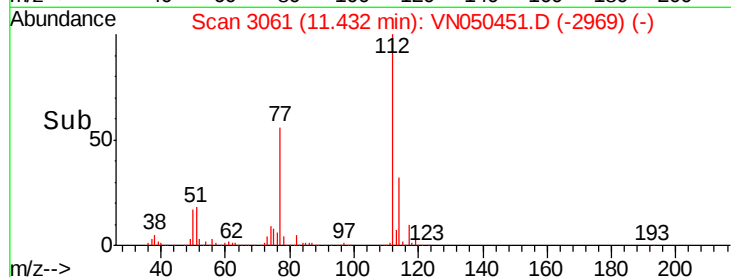
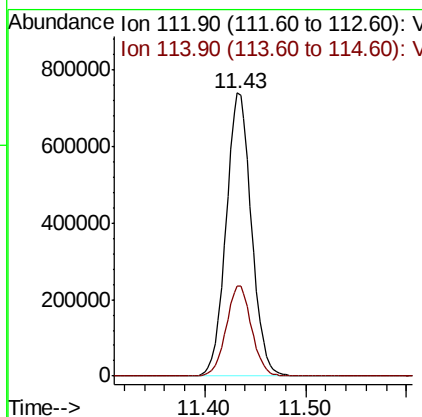
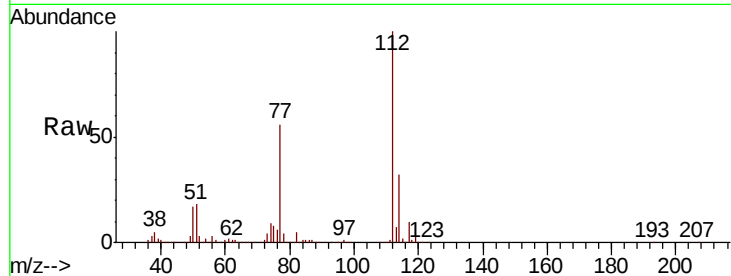
#65  
Chlorobenzene  
Concen: 48.73 ug/l  
RT: 11.43 min Scan# 3061  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Tot Ion:112 Resp: 1293264  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.6 38.4

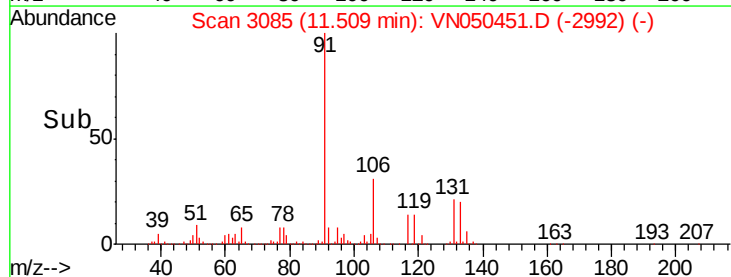
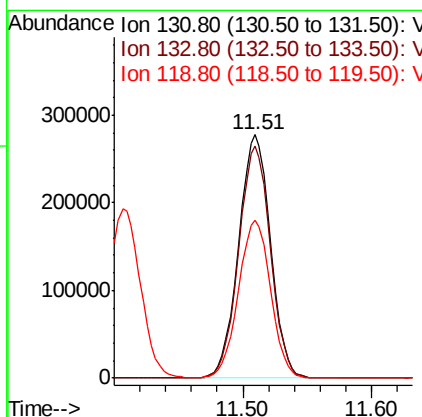
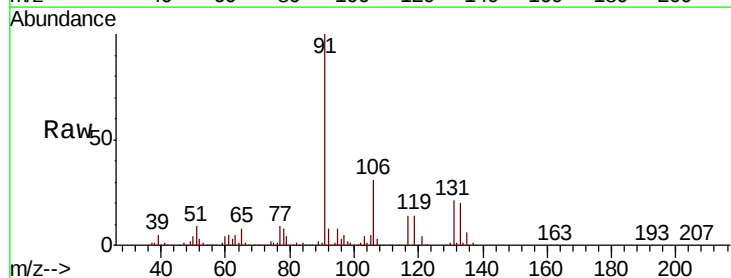
Manual Integrations  
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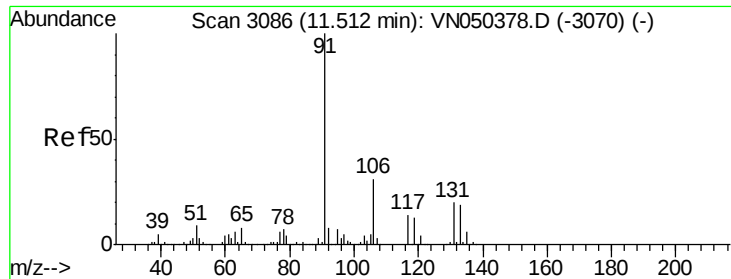
MMDadoda  
8/9/2018 1:32:12 PM



#66  
1,1,1,2-Tetrachloroethane  
Concen: 49.42 ug/l  
RT: 11.51 min Scan# 3085  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Tgt Ion:131 Resp: 477370  
Ion Ratio Lower Upper  
131 100  
133 95.1 47.3 141.9  
119 65.5 32.9 98.7





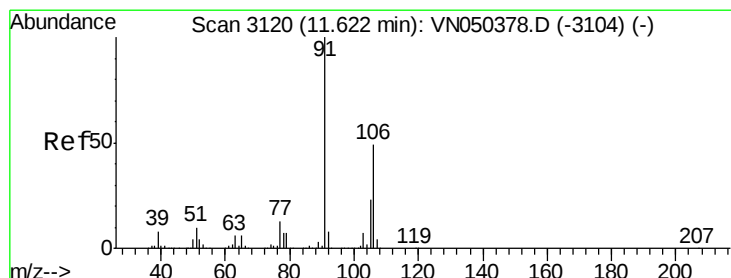
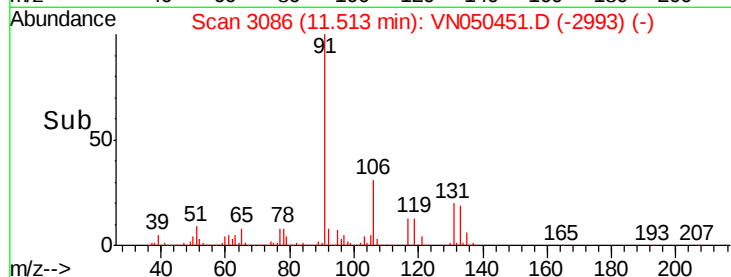
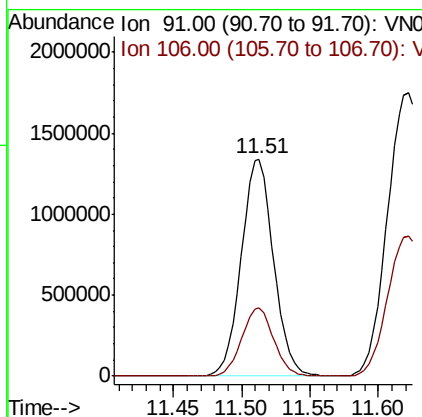
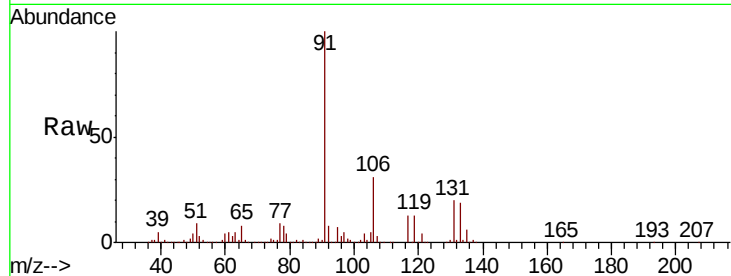
#67  
Ethyl Benzene  
Concen: 51.39 ug/l  
RT: 11.51 min Scan# 3086  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

Tot Ion: 91 Resp: 2204492  
Ion Ratio Lower Upper  
91 100  
106 31.3 25.0 37.4

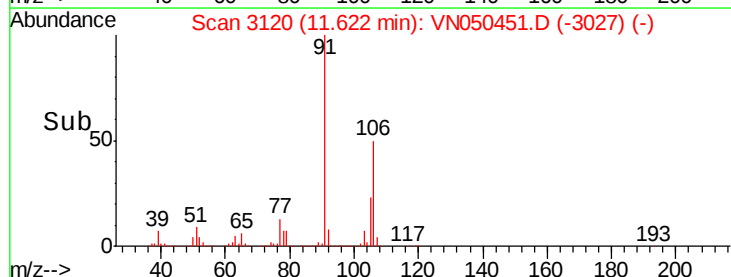
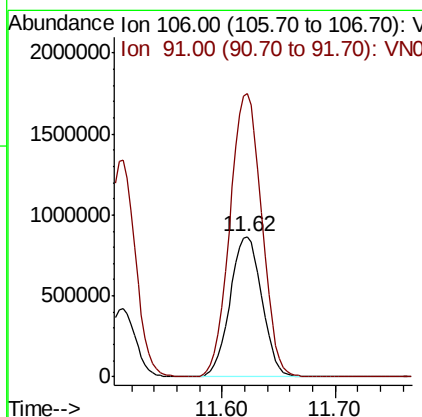
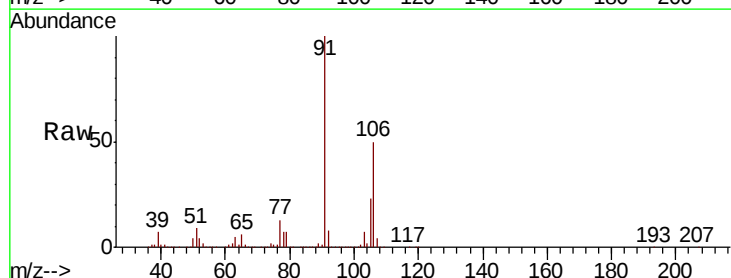
Manual Integrations  
APPROVED

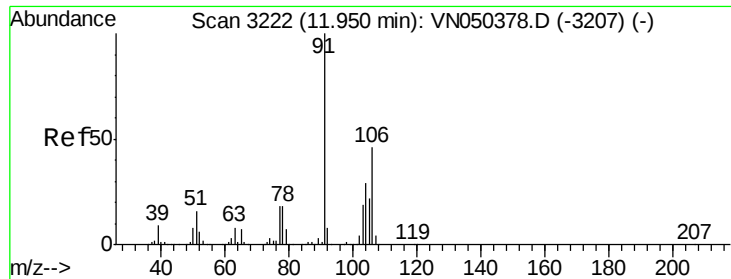
MMDadoda  
8/9/2018 1:32:12 PM



#68  
m/p-Xylenes  
Concen: 103.73 ug/l  
RT: 11.62 min Scan# 3120  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Tgt Ion: 106 Resp: 1694038  
Ion Ratio Lower Upper  
106 100  
91 202.2 162.2 243.2





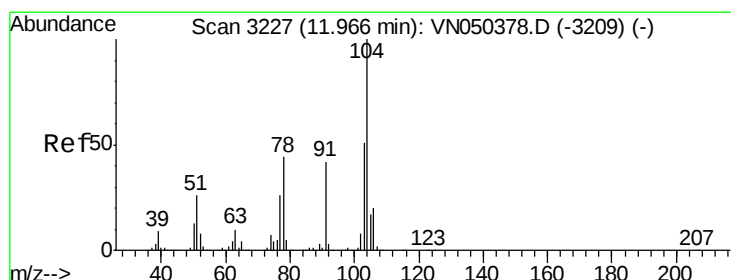
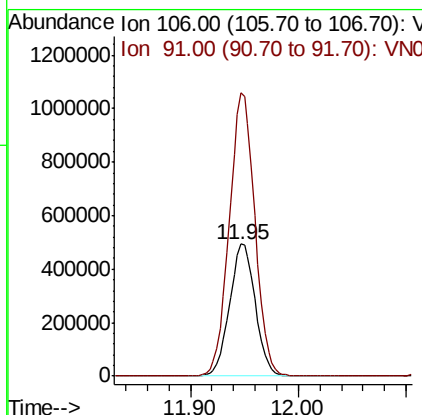
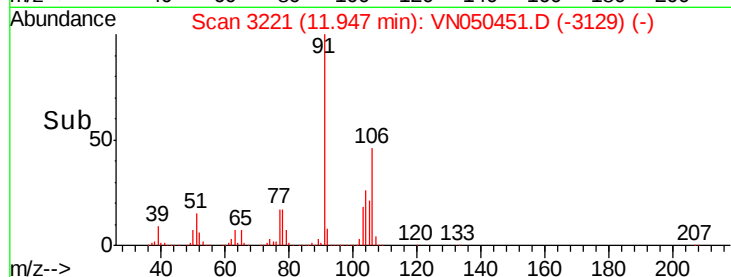
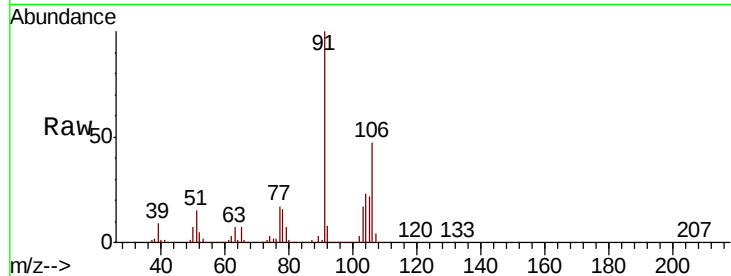
#69  
o-Xylene  
Concen: 52.15 ug/l  
RT: 11.95 min Scan# 3221  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 820471  | 106 | 100   |       |       |
|         | 91  | 213.1 | 107.7 | 323.1 |

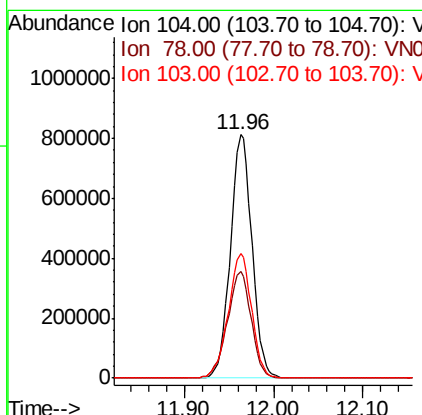
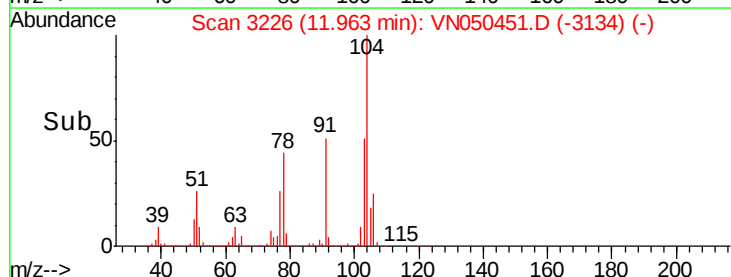
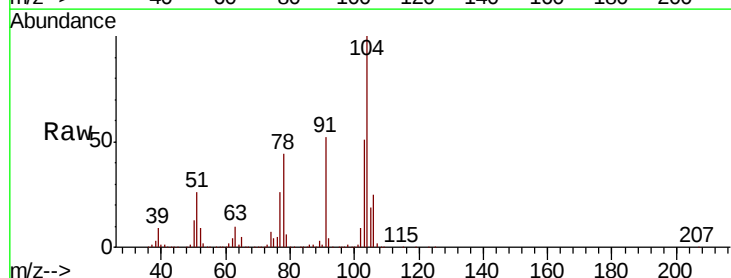
Manual Integrations  
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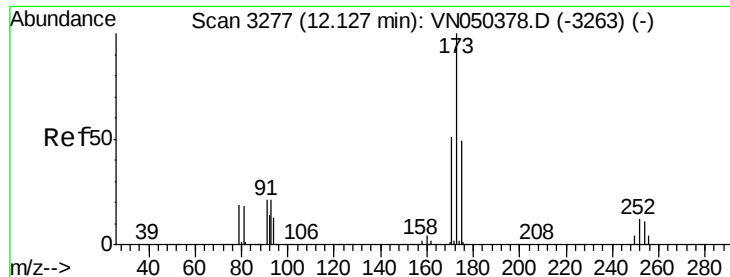
MMDadoda  
8/9/2018 1:32:12 PM



#70  
Styrene  
Concen: 53.15 ug/l  
RT: 11.96 min Scan# 3226  
Delta R.T. -0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 1359802 | 104 | 100   |       |       |
|         | 78  | 48.2  | 39.3  | 58.9  |
|         | 103 | 55.3  | 45.0  | 67.6  |





#71

Bromoform

Concen: 47.71 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

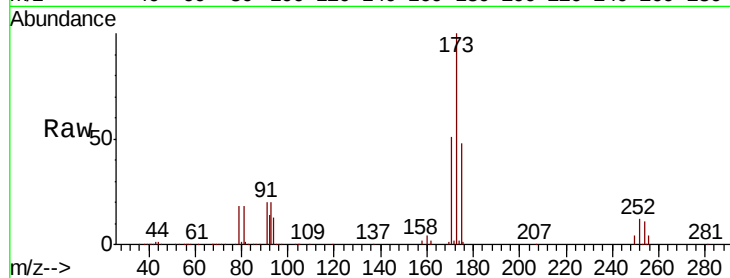
ClientSampleId :

VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 47.7  | 24.1  | 72.2  |
| 254     | 0.1   | 0.2   | 0.2#  |

Manual Integrations  
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8/9/2018 1:32:12 PM

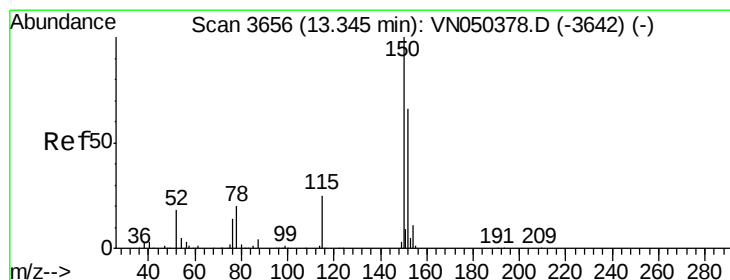
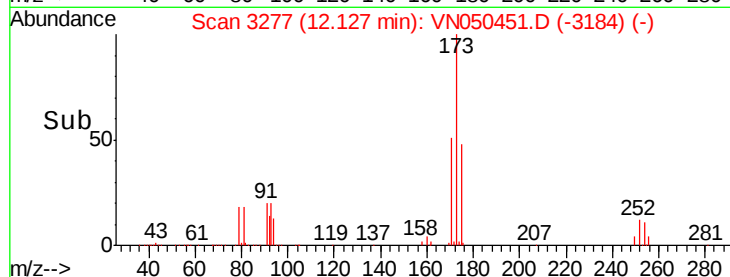
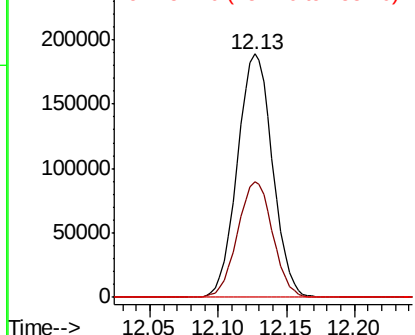


Abundance

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: 50.00 ug/l

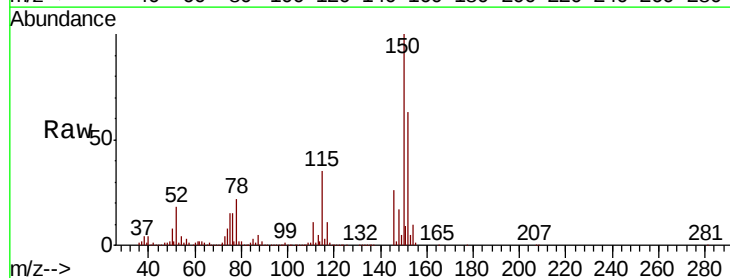
RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.3  | 27.8  | 83.3  |
| 150     | 174.4 | 0.0   | 348.6 |

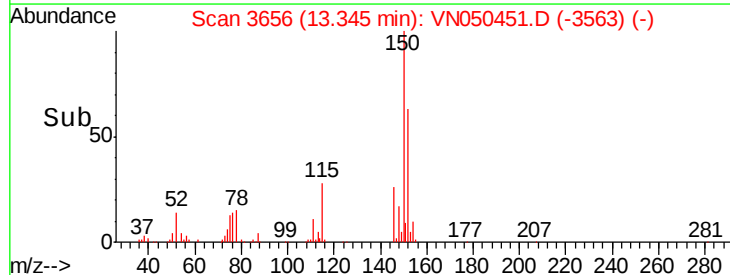
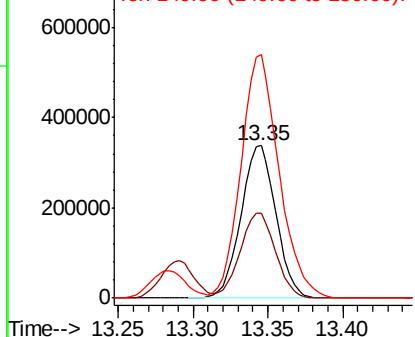


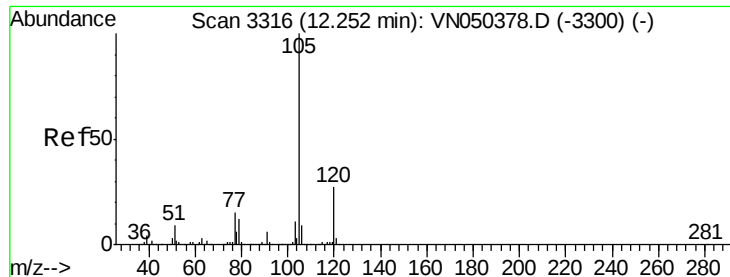
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.25 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 2148568

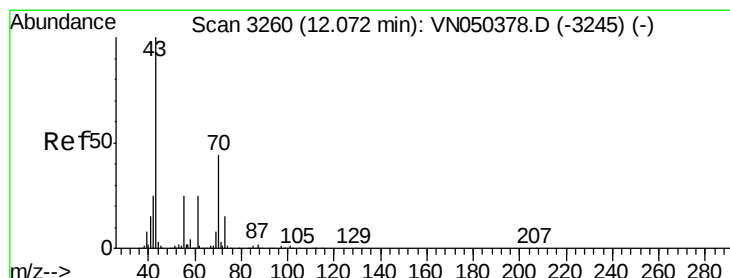
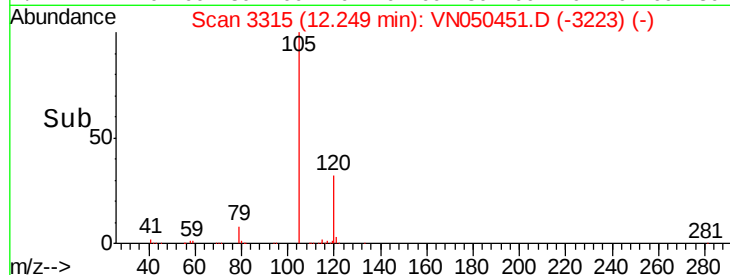
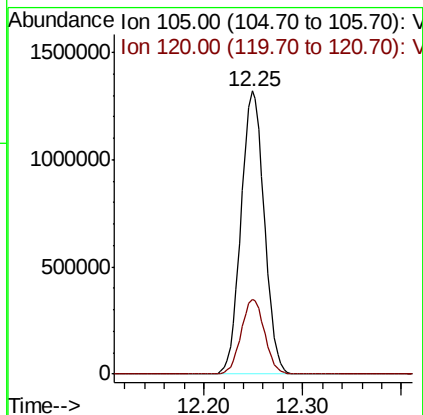
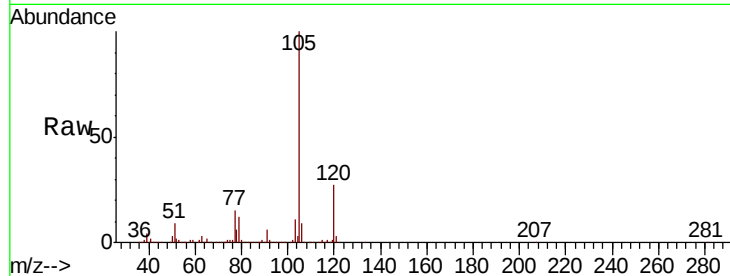
Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.8

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#74

N-ethyl acetate

Concen: 46.65 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Tgt Ion: 43 Resp: 621797

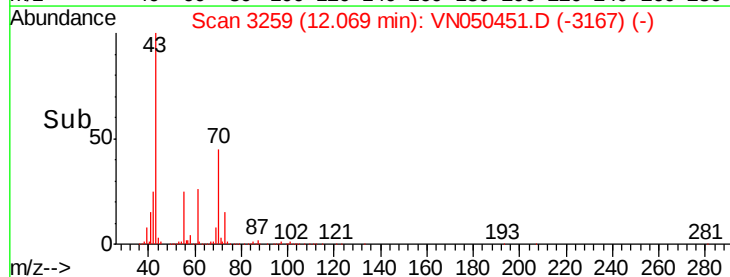
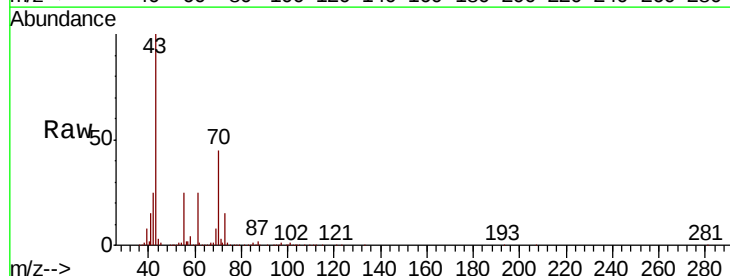
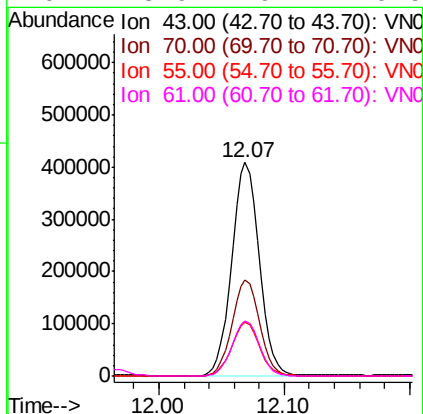
Ion Ratio Lower Upper

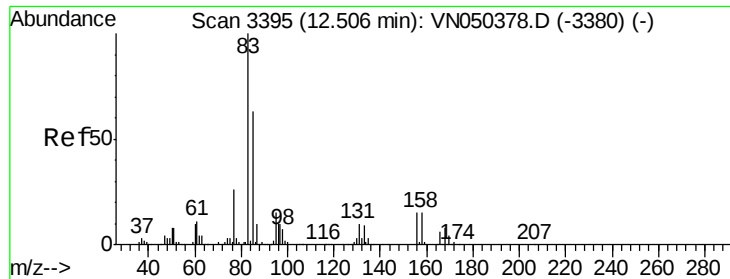
43 100

70 45.3 34.4 51.6

55 25.4 20.8 31.2

61 25.9 19.7 29.5





#75

1,1,2,2-Tetrachloroethane

Concen: 43.79 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

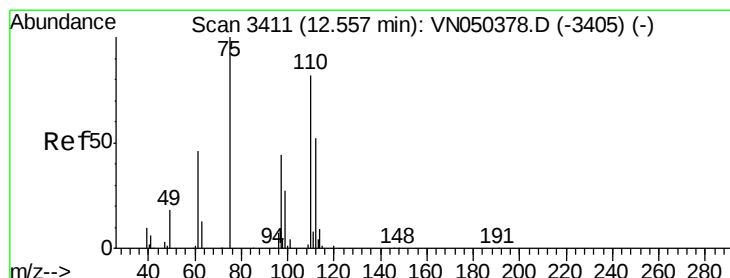
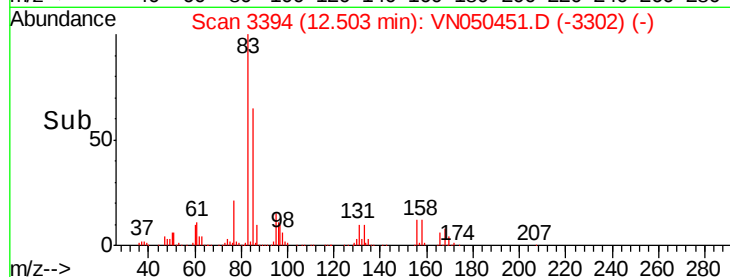
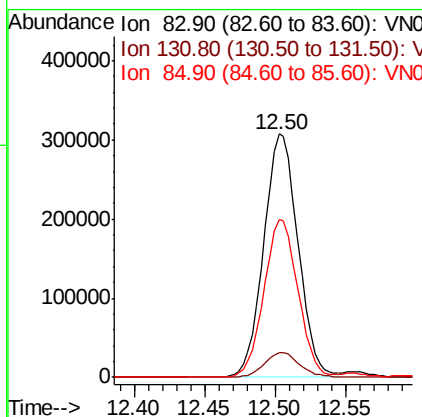
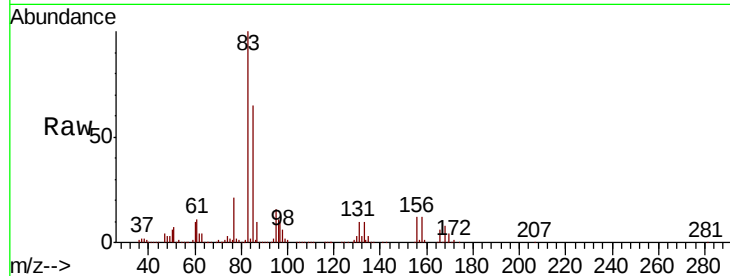
ClientSampleId :

VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 519598 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 10.5  | 5.1   | 15.3   |
| 85        | 64.4  | 32.3  | 96.8   |

Manual Integrations  
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#76

1,2,3-Trichloropropane

Concen: 44.60 ug/l m

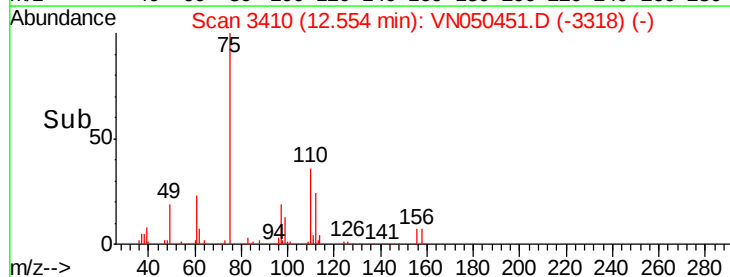
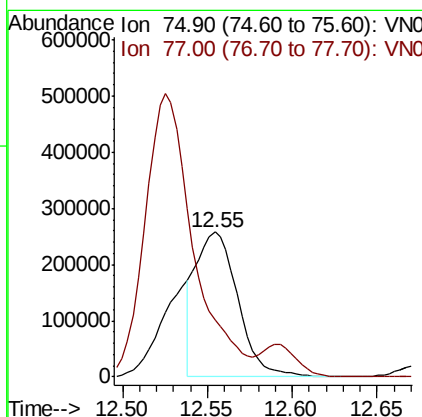
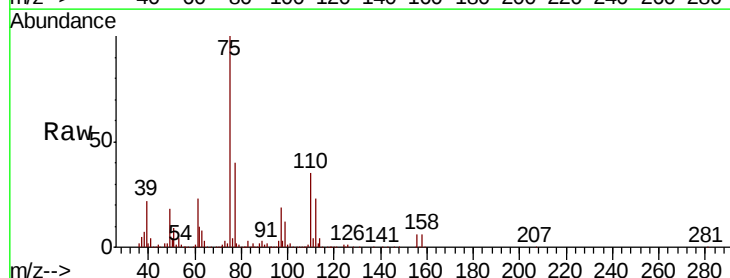
RT: 12.55 min Scan# 3410

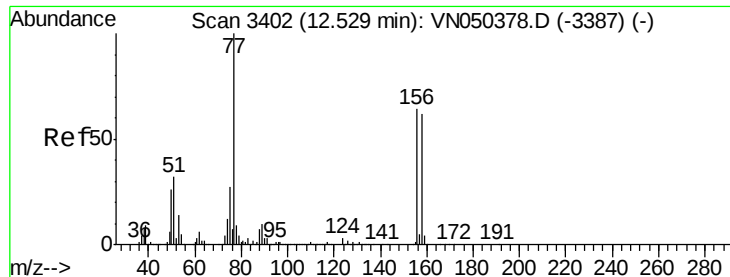
Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 442225 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 0.0   | 0.0   | 0.0    |





#77

Bromobenzene

Concen: 51.13 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 563249

Ion Ratio Lower Upper

156 100

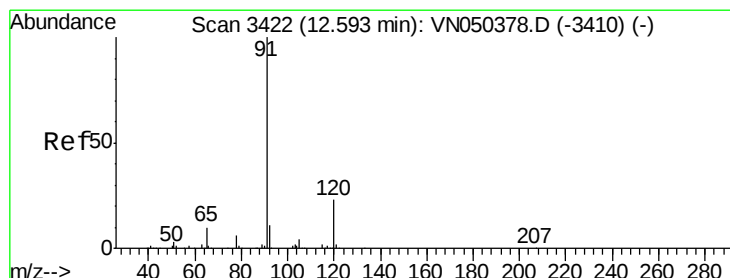
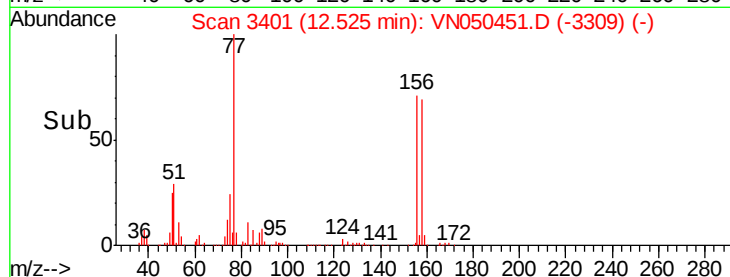
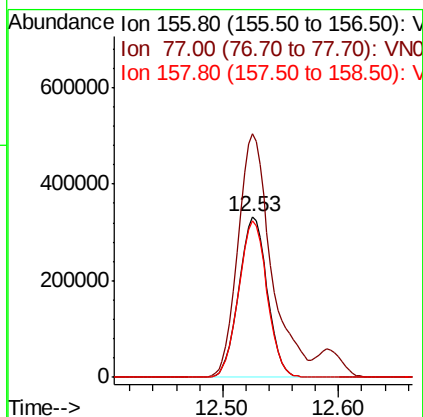
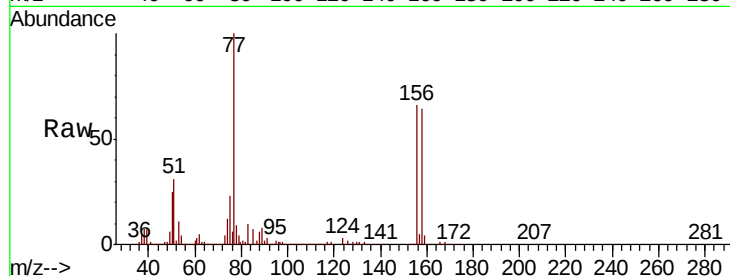
77 177.8 91.7 275.1

158 97.6 48.9 146.6

Manual Integrations  
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#78

n-propylbenzene

Concen: 51.99 ug/l

RT: 12.59 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN050451.D

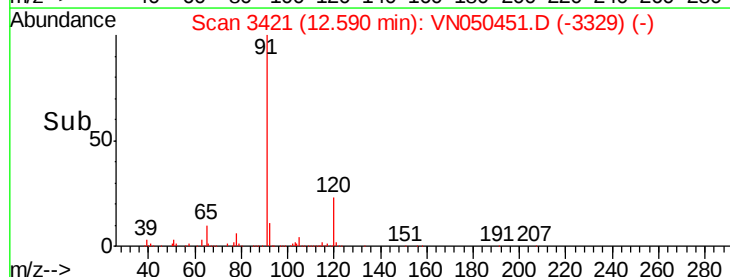
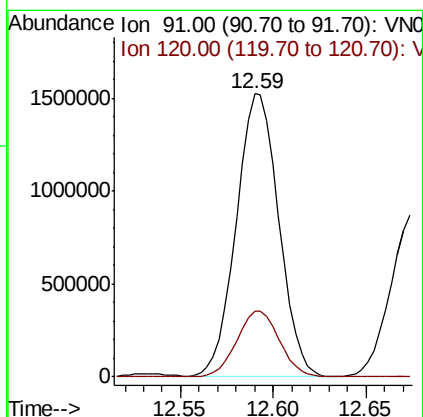
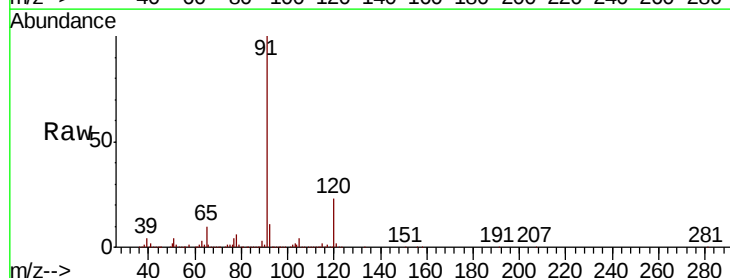
Acq: 8 Aug 2018 11:13

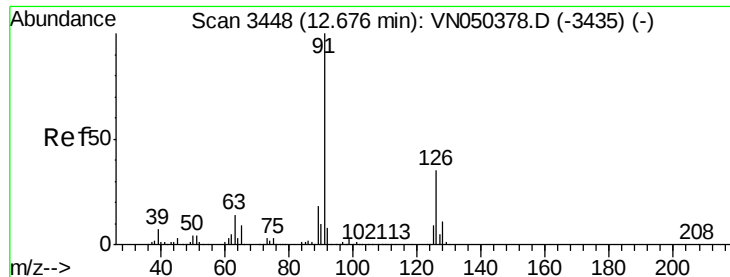
Tgt Ion: 91 Resp: 2420255

Ion Ratio Lower Upper

91 100

120 23.3 11.6 34.7





#79

2-Chlorotoluene

Concen: 50.65 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1456053

Ion Ratio Lower Upper

91 100

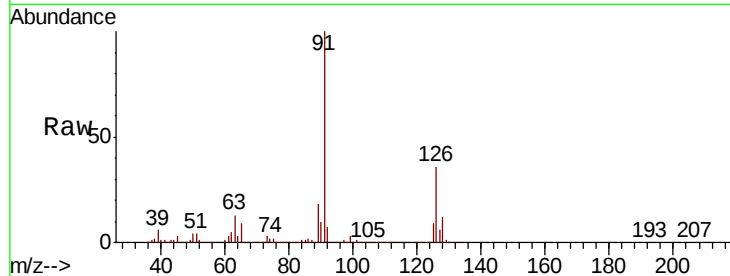
126 35.6 17.6 52.8

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN050378.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN050378.D (-3435) (-)

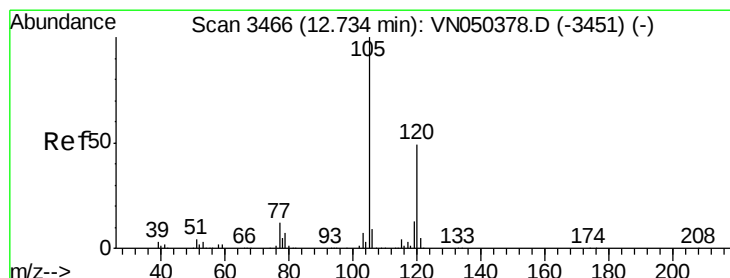
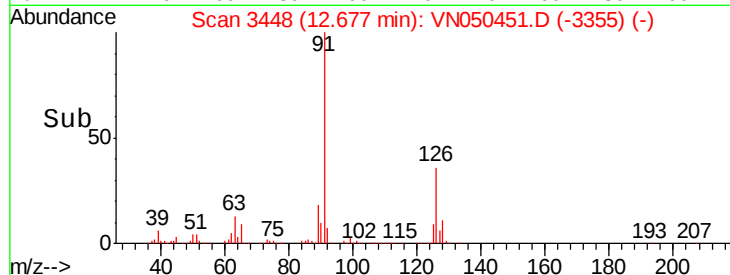
1000000

500000

0

12.68

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 52.60 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050451.D

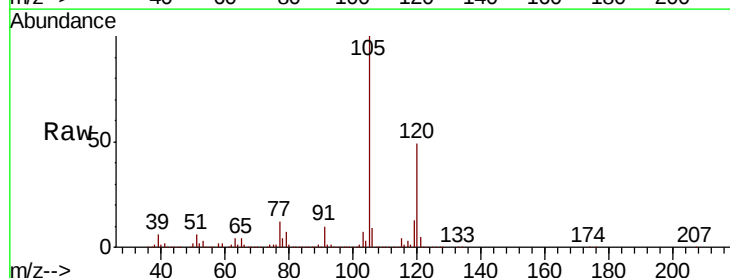
Acq: 8 Aug 2018 11:13

Tgt Ion:105 Resp: 1755818

Ion Ratio Lower Upper

105 100

120 48.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050378.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN050378.D (-3451) (-)

1200000

1000000

800000

600000

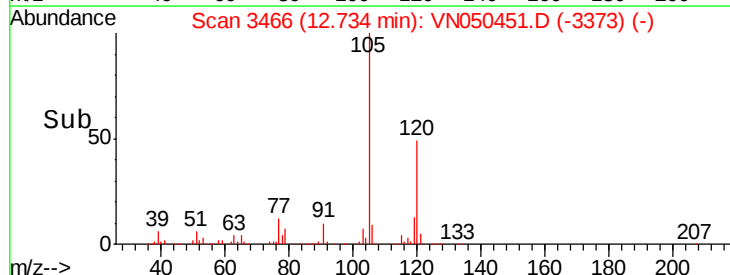
400000

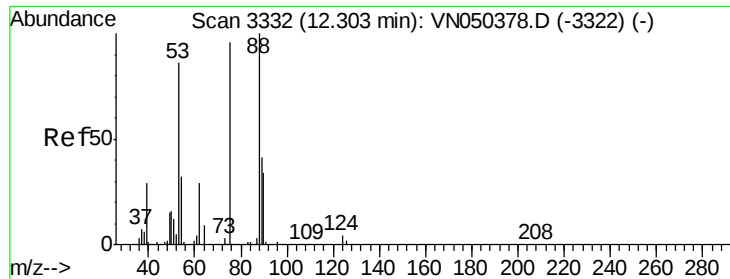
200000

0

12.73

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 48.97 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

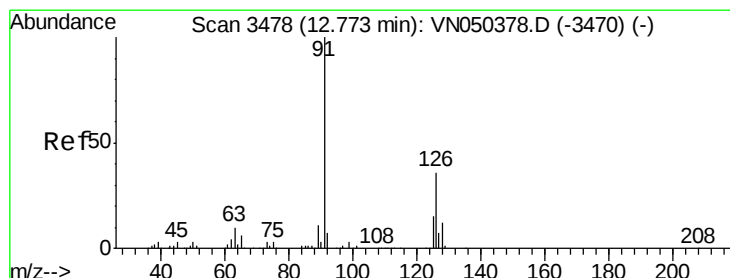
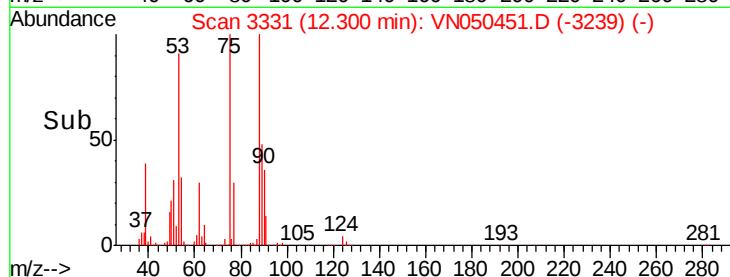
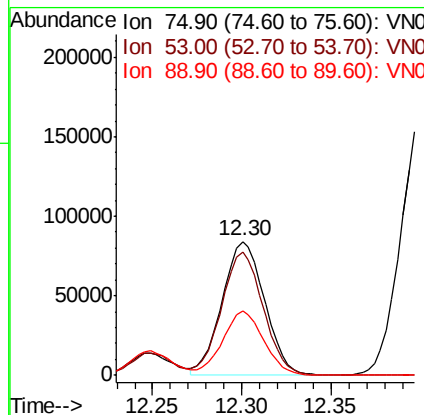
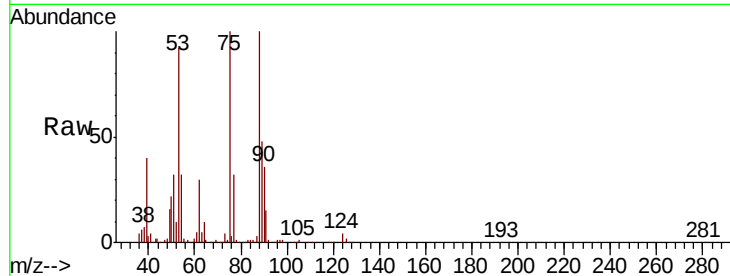
ClientSampleId :

VSTDCCC050

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 75    | Resp: | 138204 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 89.7  | 73.5  | 110.3  |
| 89       | 47.1  | 36.0  | 54.0   |

Manual Integrations  
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#82

4-Chlorotoluene

Concen: 51.90 ug/l

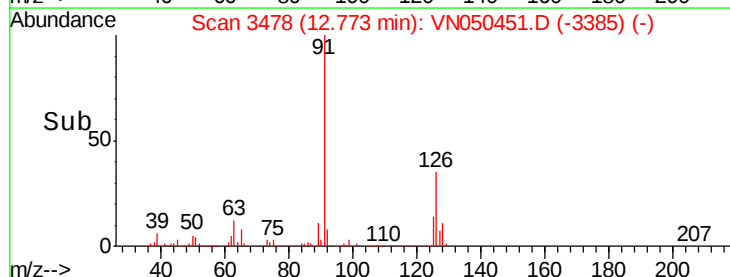
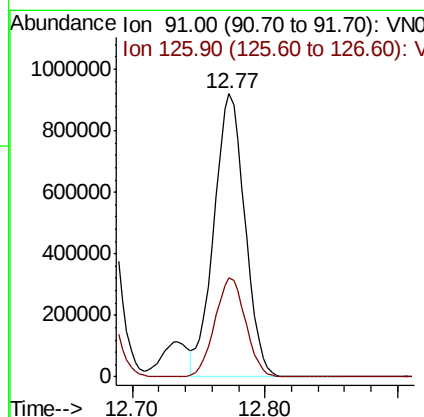
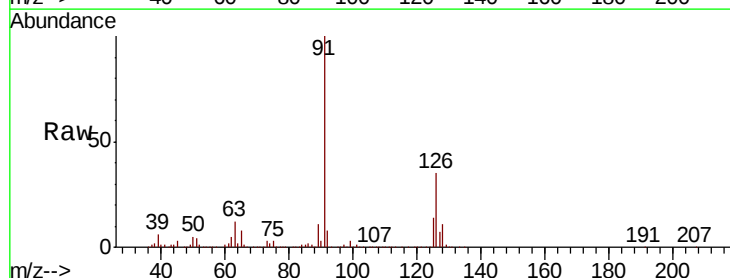
RT: 12.77 min Scan# 3478

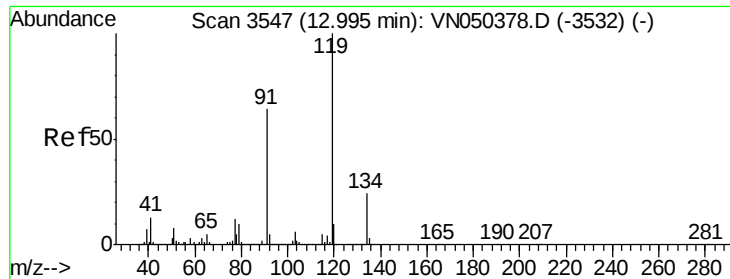
Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 1487855 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 126      | 34.9  | 17.0  | 51.0    |





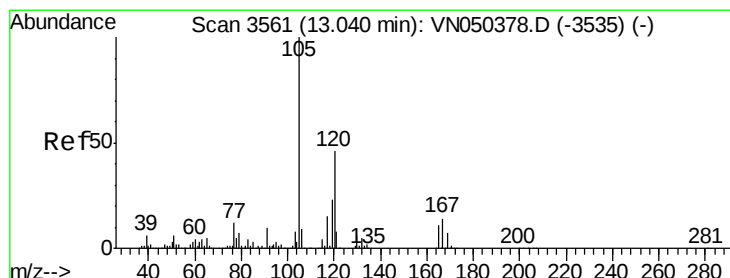
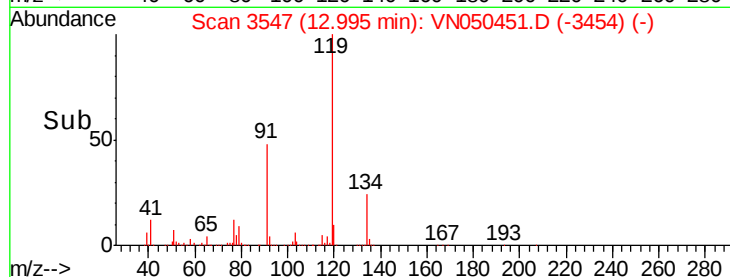
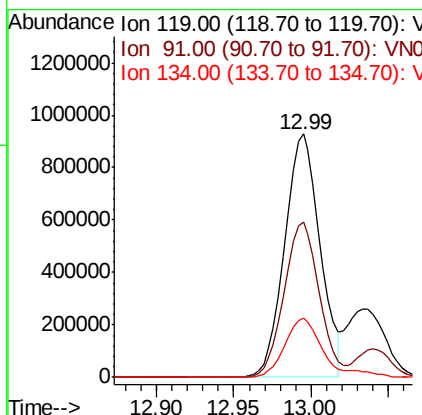
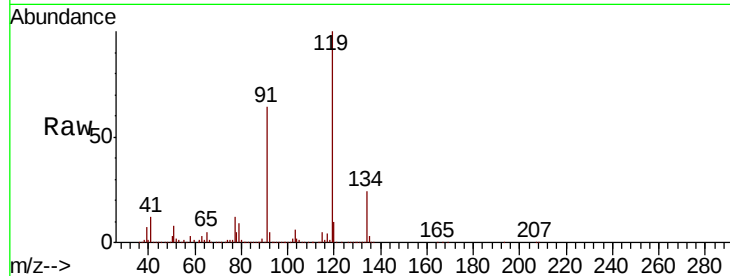
#83  
 tert-Butylbenzene  
 Concen: 50.84 ug/l  
 RT: 12.99 min Scan# 3547  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 63.3  | 32.1  | 96.3  |
| 134     | 24.6  | 13.2  | 39.5  |

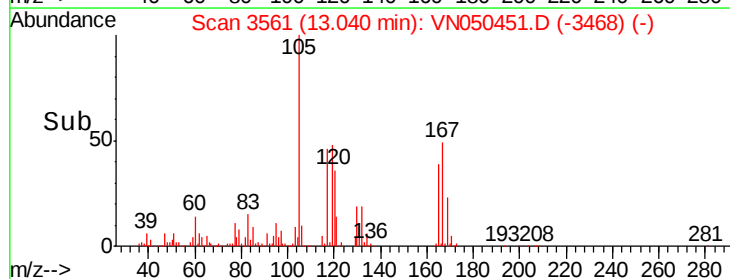
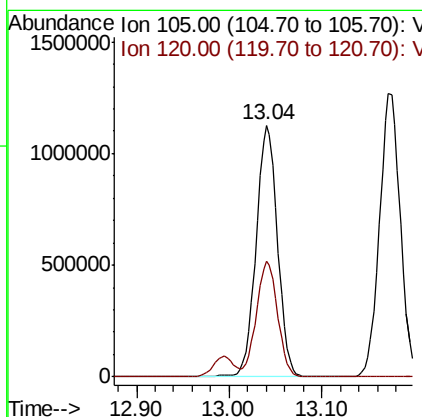
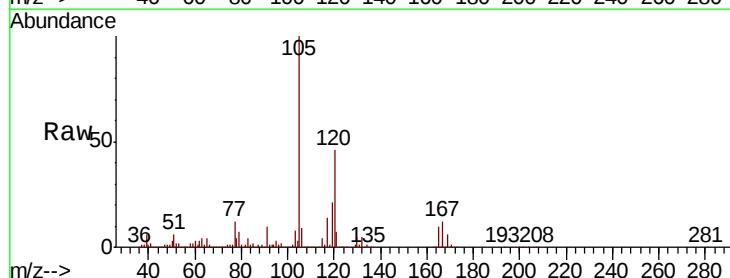
Manual Integrations  
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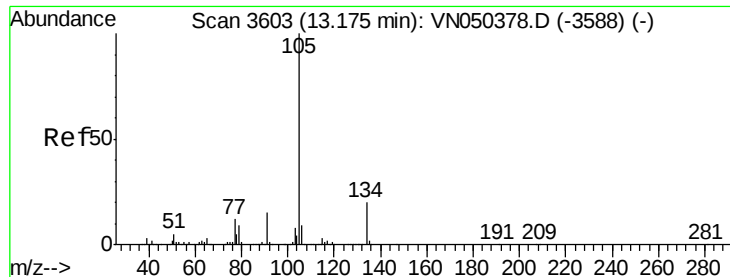
MMDadoda  
 8/9/2018 1:32:12 PM



#84  
 1,2,4-Trimethylbenzene  
 Concen: 53.03 ug/l  
 RT: 13.04 min Scan# 3561  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 45.9  | 22.9  | 68.7  |





#85

sec-Butylbenzene

Concen: 50.57 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 1963008

Ion Ratio Lower Upper

105 100

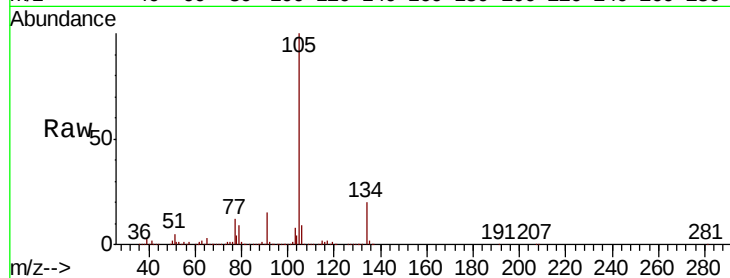
134 20.2 10.1 30.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

1500000 Ion 134.00 (133.70 to 134.70): V

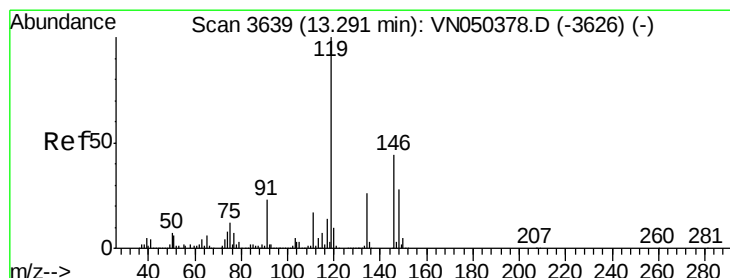
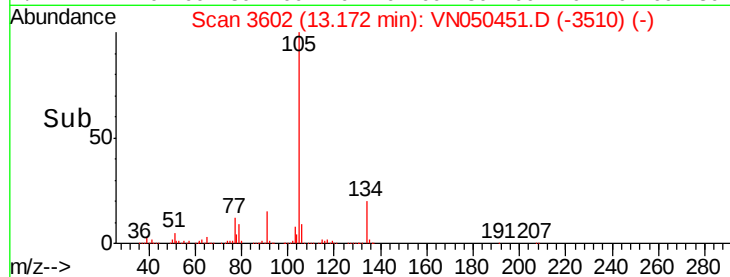
13.17

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 52.35 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

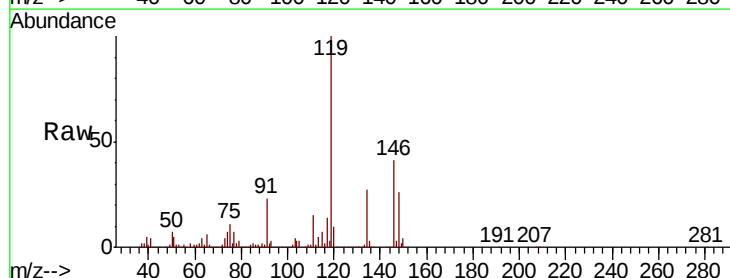
Tgt Ion:119 Resp: 1741219

Ion Ratio Lower Upper

119 100

134 26.8 13.3 39.8

91 22.5 11.4 34.2



Abundance Ion 119.00 (118.70 to 119.70): V

1500000 Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

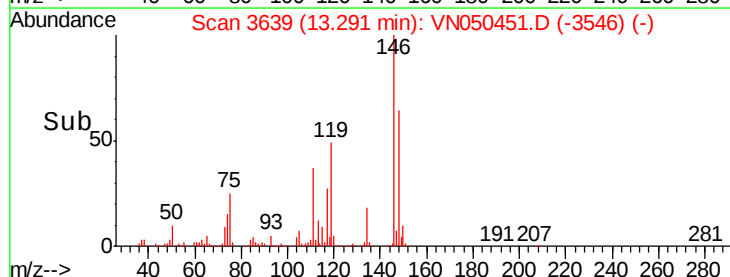
13.29

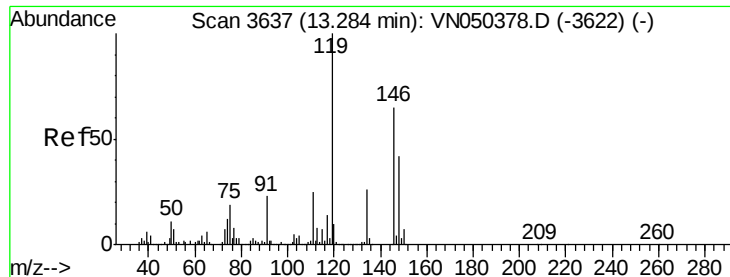
1000000

500000

0

Time-->





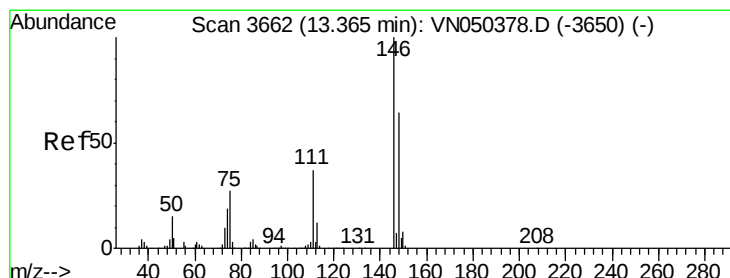
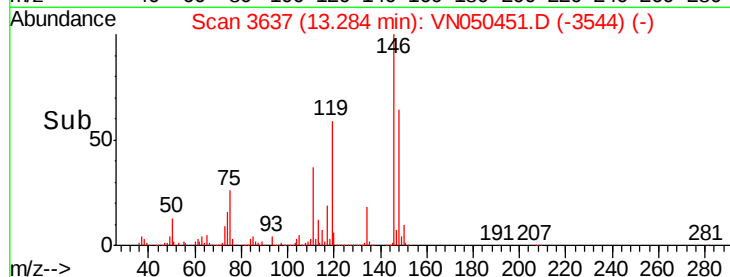
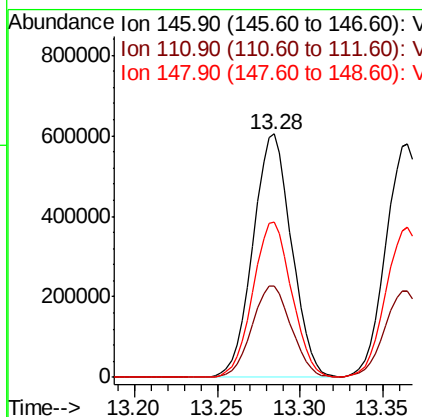
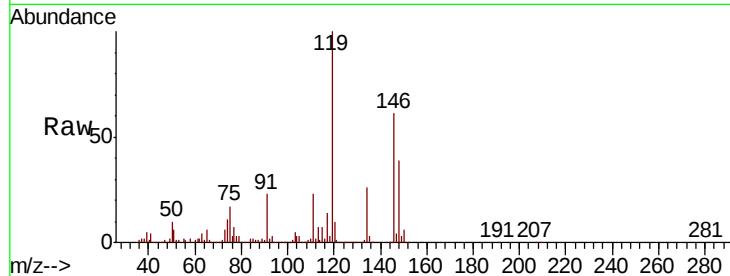
#87  
 1,3-Dichlorobenzene  
 Concen: 49.88 ug/l  
 RT: 13.28 min Scan# 3637  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 978801 |       |       |
| 111     | 38.1  | 18.8   | 56.4  |       |
| 148     | 64.1  | 31.9   | 95.9  |       |

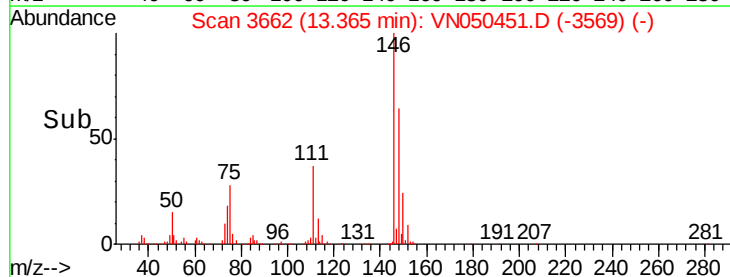
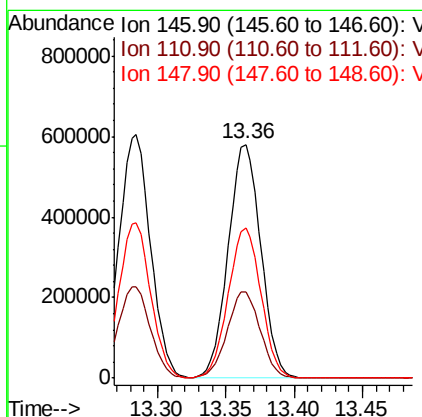
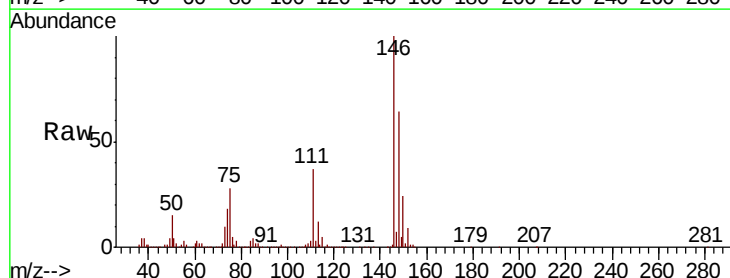
Manual Integrations  
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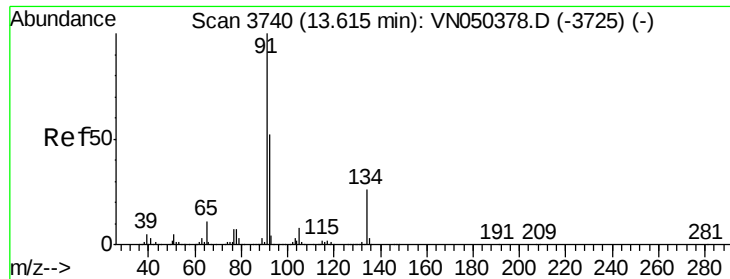
MMDadoda  
 8/9/2018 1:32:12 PM



#88  
 1,4-Dichlorobenzene  
 Concen: 49.10 ug/l  
 RT: 13.36 min Scan# 3662  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 962107 |       |       |
| 111     | 37.3  | 18.3   | 54.9  |       |
| 148     | 64.6  | 31.9   | 95.9  |       |





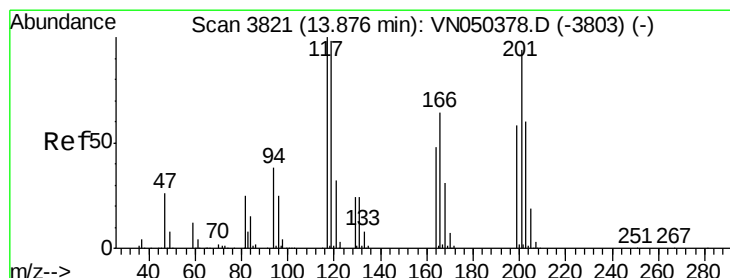
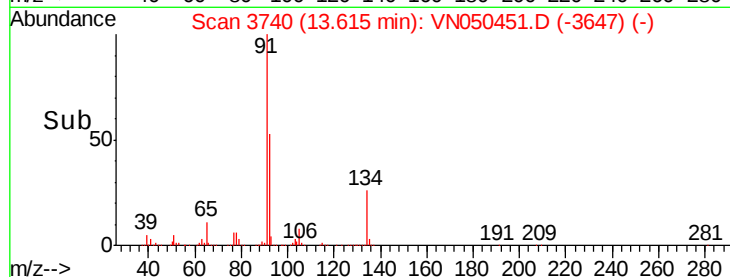
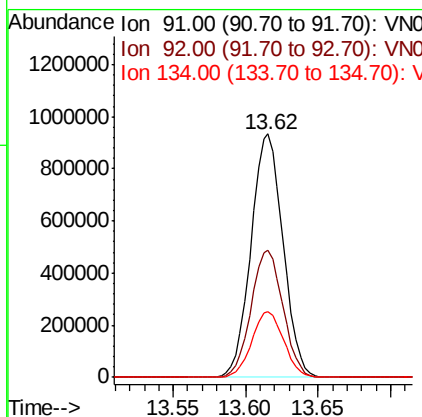
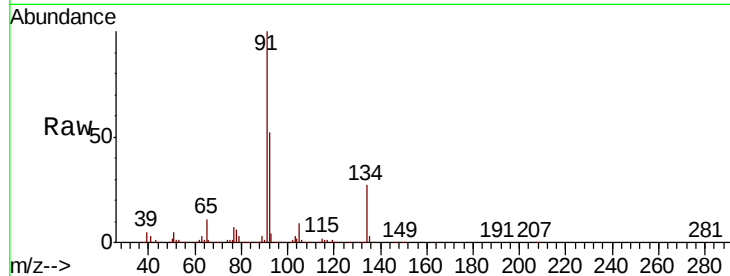
#89  
n-Butylbenzene  
Concen: 50.64 ug/l  
RT: 13.62 min Scan# 3740  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDCCC050

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 52.1  | 25.8  | 77.4  |
| 134     | 26.9  | 12.8  | 38.4  |

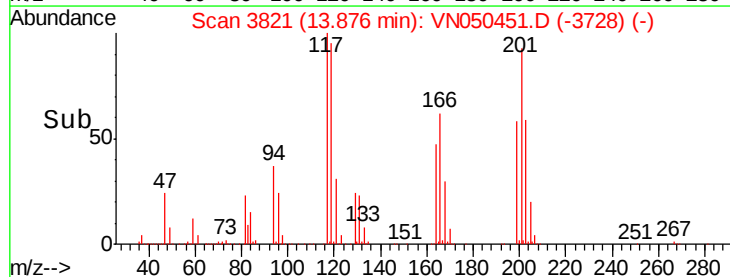
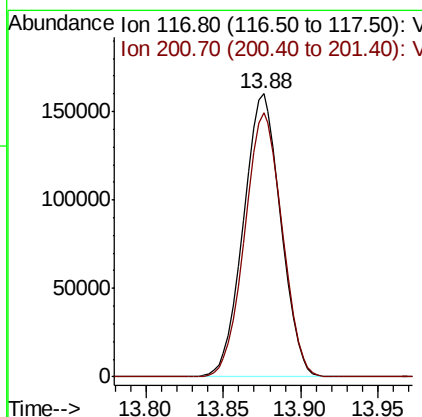
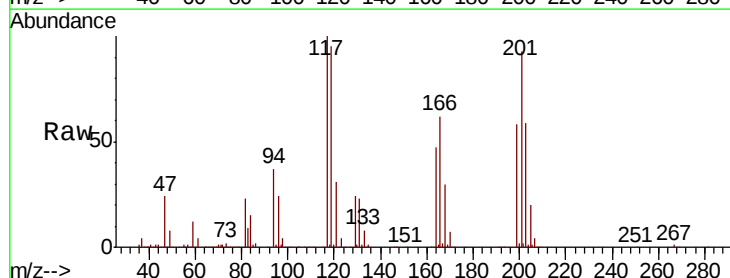
Manual Integrations  
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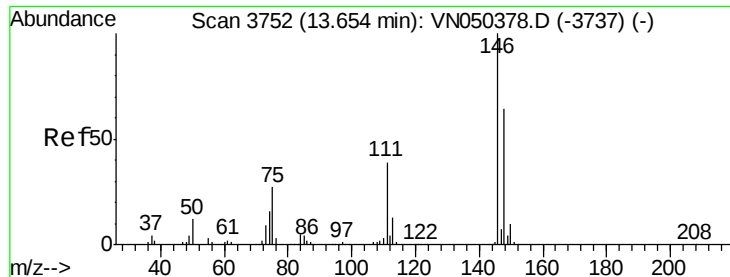
MMDadoda  
8/9/2018 1:32:12 PM



#90  
Hexachloroethane  
Concen: 45.37 ug/l  
RT: 13.88 min Scan# 3821  
Delta R.T. 0.00 min  
Lab File: VN050451.D  
Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 93.7  | 45.6  | 136.8 |





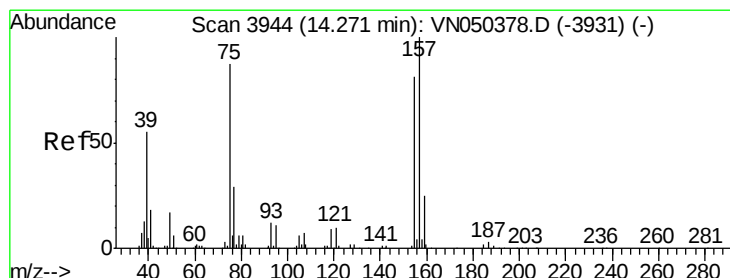
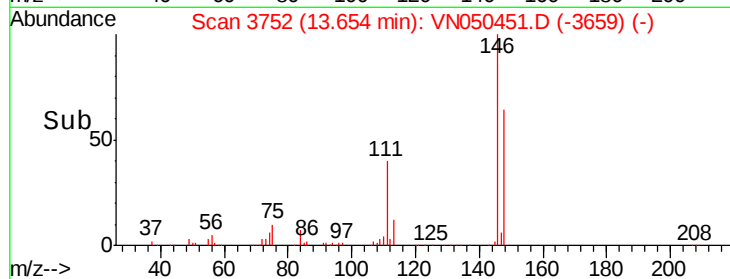
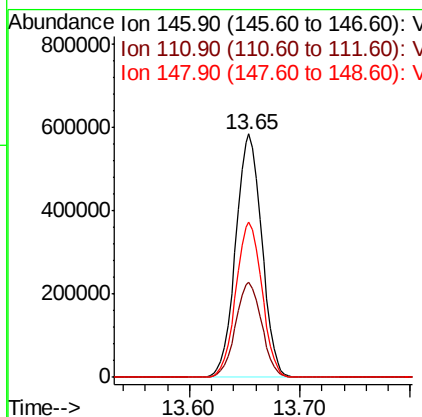
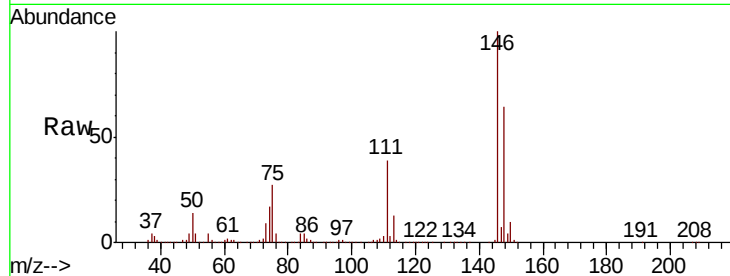
#91  
 1,2-Dichlorobenzene  
 Concen: 48.50 ug/l  
 RT: 13.65 min Scan# 3752  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 954033 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 39.0  | 19.6  | 58.7   |
| 148       | 63.8  | 32.1  | 96.3   |

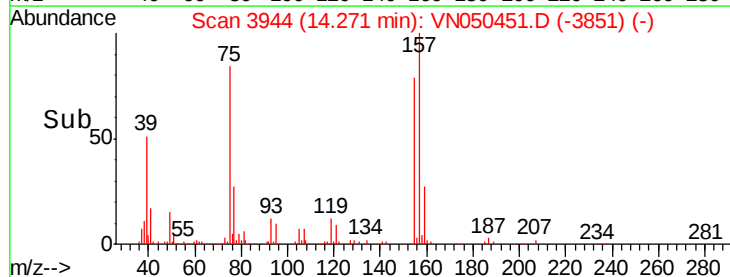
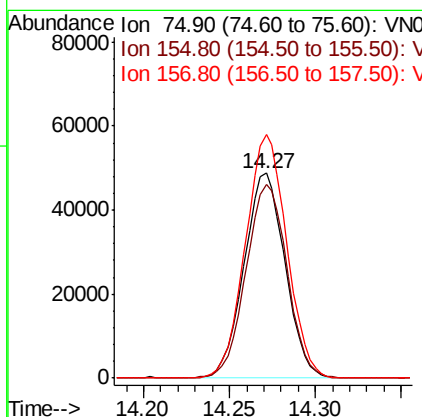
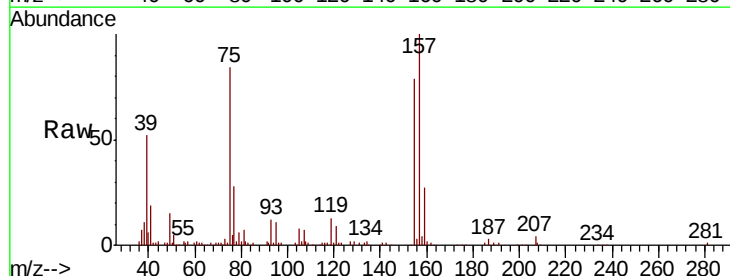
Manual Integrations  
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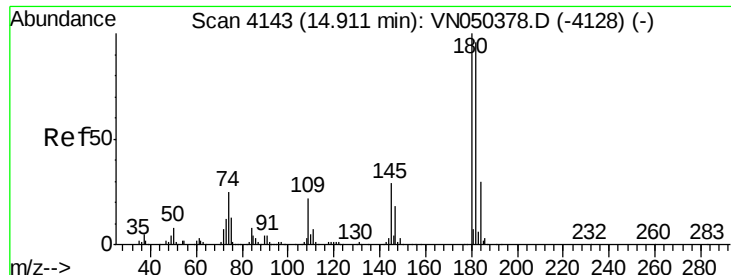
MMDadoda  
 8/9/2018 1:32:12 PM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 40.14 ug/l  
 RT: 14.27 min Scan# 3944  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 80858 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 94.6  | 44.8  | 134.4 |
| 157       | 119.3 | 57.2  | 171.6 |





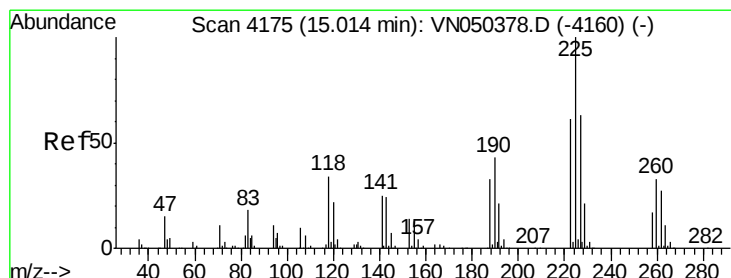
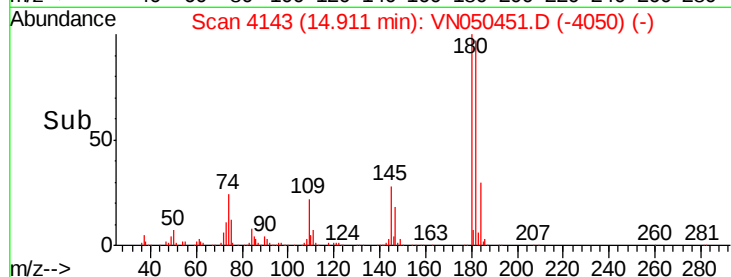
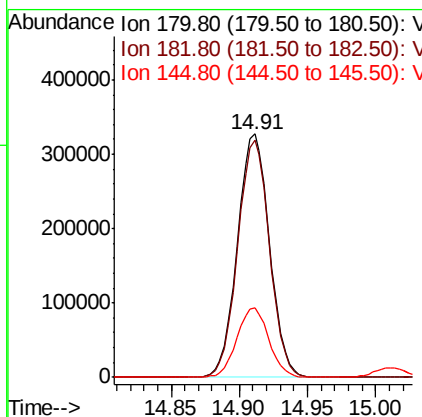
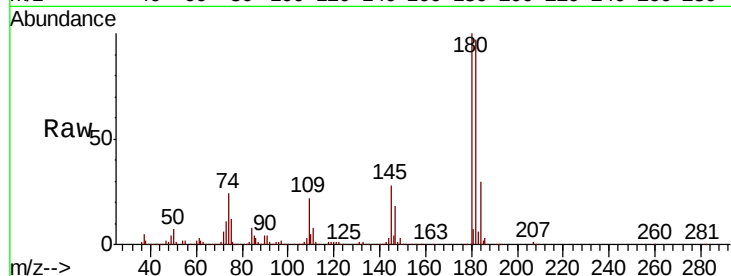
#93  
 1,2,4-Trichlorobenzene  
 Concen: 53.25 ug/l  
 RT: 14.91 min Scan# 4143  
 Delta R.T. 0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   |      |       |       |
| 182     | 96.4  | 46.7 | 140.1 |       |
| 145     | 28.5  | 13.8 | 41.4  |       |

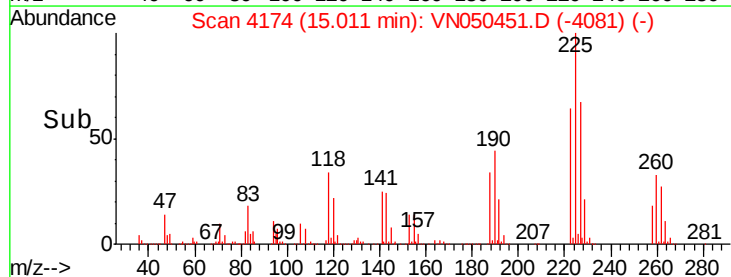
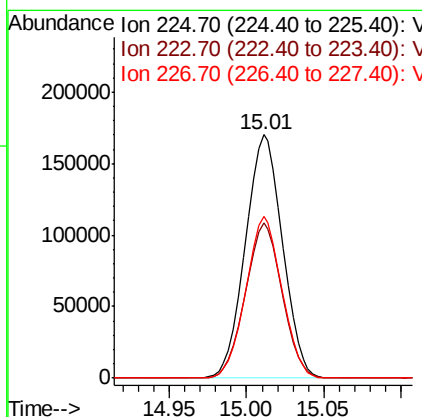
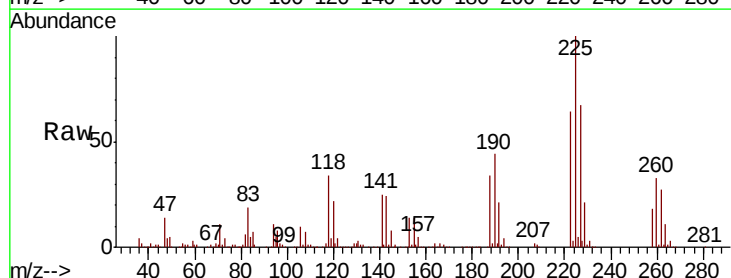
Manual Integrations  
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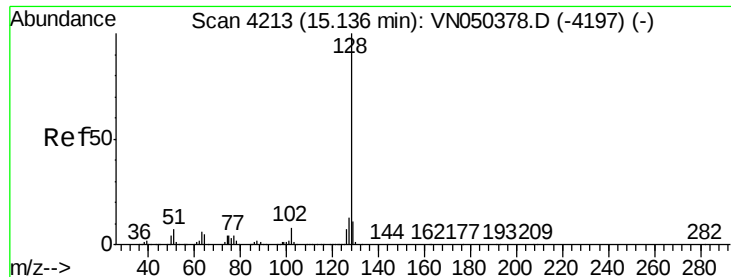
MMDadoda  
 8/9/2018 1:32:12 PM



#94  
 Hexachlorobutadiene  
 Concen: 52.09 ug/l  
 RT: 15.01 min Scan# 4174  
 Delta R.T. -0.00 min  
 Lab File: VN050451.D  
 Acq: 8 Aug 2018 11:13

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   |      |       |       |
| 223     | 62.7  | 31.4 | 94.2  |       |
| 227     | 64.3  | 32.1 | 96.5  |       |





#95

Naphthalene

Concen: 46.83 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

Instrument :

MSVOA\_N

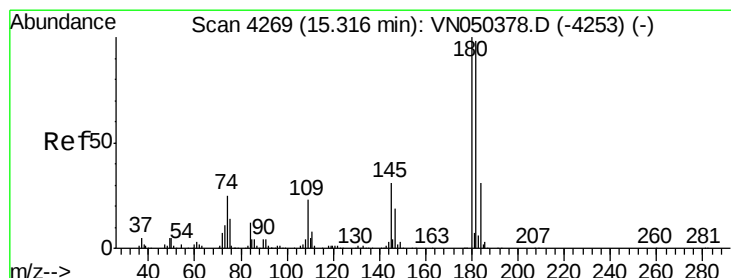
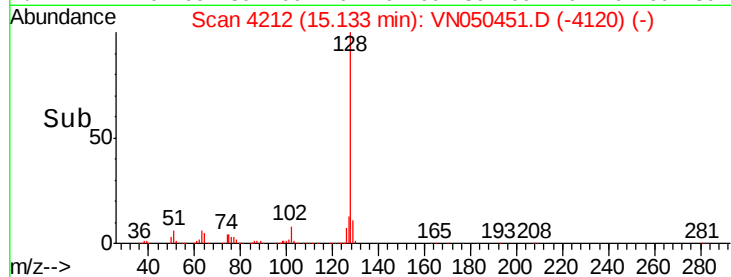
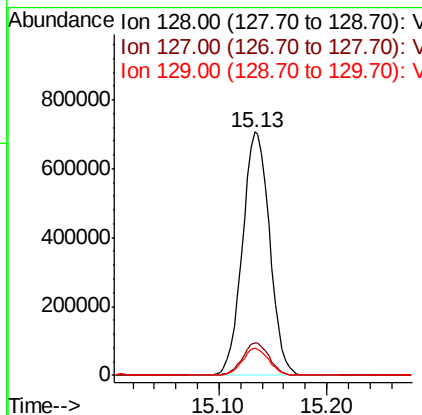
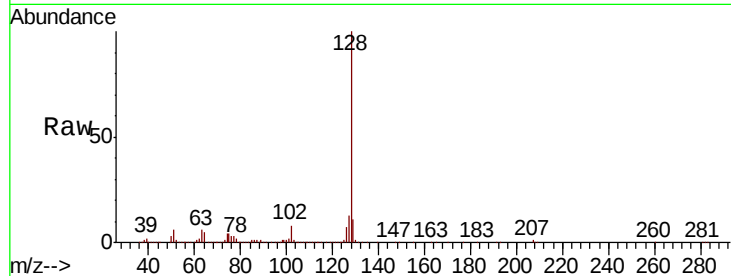
ClientSampleId :

VSTDCCC050

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 128   | Resp: | 1235776 |
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 13.2  | 10.4  | 15.6    |
| 129      | 11.0  | 8.8   | 13.2    |

Manual Integrations  
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8/9/2018 1:32:12 PM



#96

1,2,3-Trichlorobenzene

Concen: 49.90 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050451.D

Acq: 8 Aug 2018 11:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 505472 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.4  | 48.1  | 144.4  |
| 145      | 30.3  | 15.3  | 45.9   |

