

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN090519\  
 Data File : VN057697.D  
 Acq On : 5 Sep 2019 11:47  
 Operator : JC/SP  
 Sample : VN0905WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

Quant Time: Sep 06 01:29:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N090319W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Sep 04 02:08:50 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 59800    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 365238   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 306520   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.02   | 65    | 191024   | 30.05    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.17% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 148924   | 28.44    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 94.80%  |
| 63) Toluene-d8            | 10.09  | 98    | 457504   | 31.00    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 103.33% |

## Target Compounds

|                               |      |     |        |              | Qvalue |
|-------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 93153  | 21.622 ug/l  | 100    |
| 3) Chloromethane              | 2.05 | 50  | 92545  | 20.369 ug/l  | 94     |
| 4) Vinyl Chloride             | 2.18 | 62  | 78338  | 21.085 ug/l  | 95     |
| 5) Bromomethane               | 2.54 | 94  | 48045  | 20.227 ug/l  | 96     |
| 6) Chloroethane               | 2.69 | 64  | 56546  | 20.842 ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 149777 | 21.048 ug/l  | 96     |
| 8) Diethyl Ether              | 3.40 | 74  | 49483  | 21.141 ug/l  | 100    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.75 | 101 | 76171  | 20.598 ug/l  | 98     |
| 10) 1,1-Dichloroethene        | 3.73 | 96  | 71104  | 21.076 ug/l  | 98     |
| 11) Methyl Iodide             | 3.94 | 142 | 90162  | 19.299 ug/l  | 99     |
| 12) Methyl Acetate            | 4.31 | 43  | 101202 | 20.092 ug/l  | 97     |
| 13) Acrolein                  | 3.59 | 56  | 22760  | 79.636 ug/l  | 93     |
| 14) Acrylonitrile             | 4.97 | 53  | 182610 | 99.612 ug/l  | 99     |
| 15) Acetone                   | 3.80 | 58  | 51800  | 100.736 ug/l | 98     |
| 16) Carbon Disulfide          | 4.04 | 76  | 163366 | 19.276 ug/l  | 100    |
| 17) Allyl chloride            | 4.31 | 41  | 153284 | 21.274 ug/l  | 98     |
| 18) Methylene Chloride        | 4.54 | 84  | 87032  | 20.587 ug/l  | 94     |
| 19) trans-1,2-Dichloroethene  | 5.03 | 96  | 72515  | 20.320 ug/l  | 95     |
| 20) Diisopropyl ether         | 5.93 | 45  | 324353 | 20.891 ug/l  | 98     |
| 21) 1,1-Dichloroethane        | 5.84 | 63  | 164280 | 20.528 ug/l  | 99     |
| 22) cis-1,2-Dichloroethene    | 6.82 | 96  | 90717  | 20.812 ug/l  | 98     |
| 23) tert-Butyl Alcohol        | 4.75 | 59  | 33039  | 49.565 ug/l  | # 100  |
| 24) Methyl tert-Butyl Ether   | 5.02 | 73  | 269994 | 20.141 ug/l  | # 76   |
| 25) Chloroform                | 7.36 | 83  | 171078 | 20.623 ug/l  | 97     |
| 26) Cyclohexane               | 7.64 | 56  | 138836 | 20.374 ug/l  | # 99   |
| 29) 1,1-Dichloropropene       | 7.78 | 75  | 114519 | 19.635 ug/l  | 97     |
| 30) 2-Butanone                | 6.82 | 43  | 277014 | 100.544 ug/l | # 98   |
| 31) 2,2-Dichloropropane       | 6.81 | 77  | 147614 | 20.450 ug/l  | # 77   |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97  | 149117 | 20.652 ug/l  | 98     |
| 33) Carbon Tetrachloride      | 7.76 | 117 | 117502 | 20.039 ug/l  | 96     |
| 34) Benzene                   | 8.03 | 78  | 336177 | 20.066 ug/l  | 96     |
| 35) Methacrylonitrile         | 7.16 | 41  | 58246  | 23.078 ug/l  | 97     |
| 36) 1,2-Dichloroethane        | 8.11 | 62  | 149475 | 20.021 ug/l  | # 100  |
| 37) Trichloroethene           | 8.83 | 130 | 77186  | 19.403 ug/l  | 96     |
| 38) Methylcyclohexane         | 9.07 | 83  | 134484 | 20.780 ug/l  | 97     |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 92778  | 20.252 ug/l  | 96     |
| 40) Dibromomethane            | 9.20 | 93  | 60695  | 20.438 ug/l  | 99     |

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 Sample : VN0905WBS01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VN0905WBS01

Quant Time: Sep 06 01:29:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N090319W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Sep 04 02:08:50 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| -----                          |       |      |          |         |        |          |
| 41) Bromodichloromethane       | 9.40  | 83   | 125217   | 19.508  | ug/l # | 89       |
| 42) Vinyl Acetate              | 5.88  | 43   | 1294869  | 106.929 | ug/l   | 100      |
| 43) Ethyl Acetate              | 6.91  | 43   | 109889   | 19.369  | ug/l # | 78       |
| 44) Isopropyl Acetate          | 8.15  | 43   | 210595   | 19.855  | ug/l   | 99       |
| 45) 1,4-Dioxane                | 9.19  | 88   | 22469    | 329.998 | ug/l # | 91       |
| 46) Methyl methacrylate        | 9.19  | 41   | 101558   | 19.733  | ug/l   | 96       |
| 47) n-amyl Acetate             | 12.07 | 43   | 150502   | 18.296  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 130478   | 19.379  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 139617   | 19.436  | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 82239    | 20.533  | ug/l   | 97       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 124546   | 19.075  | ug/l   | 98       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 146357   | 20.530  | ug/l   | 98       |
| 53) Dibromochloromethane       | 10.90 | 129  | 80936    | 19.362  | ug/l   | 100      |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 80962    | 20.221  | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 172680   | 83.705  | ug/l   | 99       |
| 56) Bromoform                  | 12.13 | 173  | 45795    | 17.666  | ug/l # | 96       |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 596947   | 110.199 | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 391241   | 102.064 | ug/l   | 99       |
| 61) Tetrachloroethene          | 10.63 | 164  | 74575    | 21.188  | ug/l   | 98       |
| 62) Toluene                    | 10.15 | 91   | 365852   | 21.258  | ug/l   | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 209032   | 20.685  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 76818    | 20.750  | ug/l   | 98       |
| 66) Ethyl Benzene              | 11.51 | 91   | 409853   | 21.305  | ug/l   | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 276796   | 41.026  | ug/l   | 97       |
| 68) o-Xylene                   | 11.95 | 106  | 135712   | 20.201  | ug/l   | 97       |
| 69) Styrene                    | 11.96 | 104  | 207629   | 19.282  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 387052   | 21.005  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 99214    | 20.464  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 128515   | 28.185  | ug/l   | 60       |
| 73) Bromobenzene               | 12.53 | 156  | 73789    | 18.897  | ug/l   | 99       |
| 74) n-propylbenzene            | 12.59 | 91   | 409089   | 20.055  | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 254229   | 19.908  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 317604   | 20.762  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 23964    | 17.217  | ug/l   | 95       |
| 78) 4-Chlorotoluene            | 12.78 | 91   | 223554   | 18.425  | ug/l   | 98       |
| 79) tert-butylbenzene          | 12.99 | 119  | 262744   | 19.999  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 301556   | 20.980  | ug/l   | 99       |
| 81) sec-Butylbenzene           | 13.17 | 105  | 333912   | 19.722  | ug/l   | 99       |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 282179   | 19.623  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 103644   | 17.723  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.36 | 146  | 97353    | 17.634  | ug/l   | 98       |
| 85) n-Butylbenzene             | 13.62 | 91   | 247174   | 19.555  | ug/l   | 98       |
| 86) Hexachloroethane           | 13.88 | 117  | 51750    | 19.887  | ug/l   | 95       |
| 87) 1,2-Dichlorobenzene        | 13.66 | 146  | 97422    | 18.056  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 11576    | 16.287  | ug/l   | 92       |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 20329    | 10.874  | ug/l   | 96       |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 38479    | 18.557  | ug/l   | 96       |
| 91) Naphthalene                | 15.13 | 128  | 51141    | 10.533  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 18962    | 10.439  | ug/l   | 96       |
| -----                          |       |      |          |         |        |          |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN090519\  
Data File : VN057697.D  
Acq On : 5 Sep 2019 11:47  
Operator : JC/SP  
Sample : VN0905WBS01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

Quant Time: Sep 06 01:29:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N090319W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Sep 04 02:08:50 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

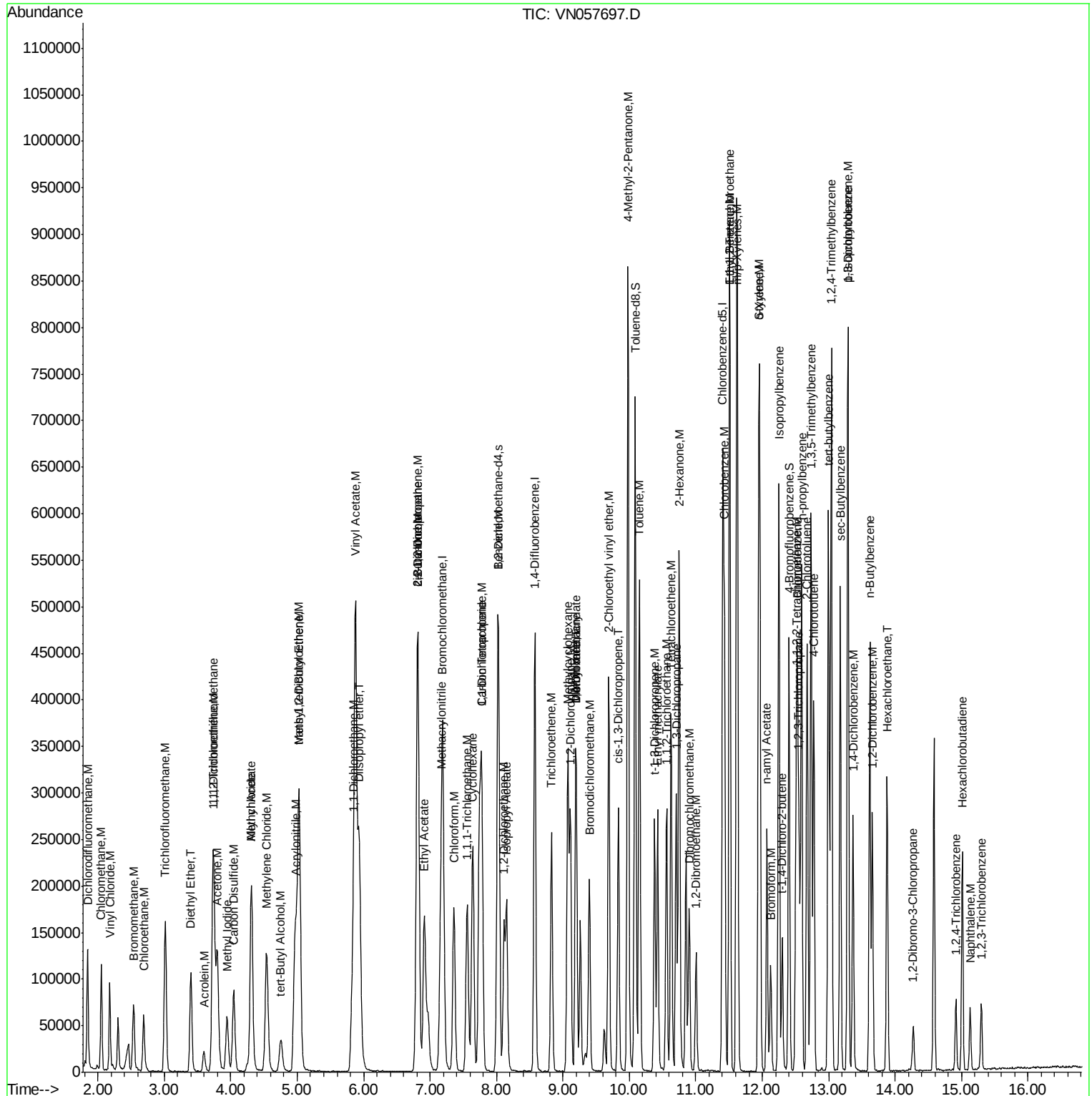
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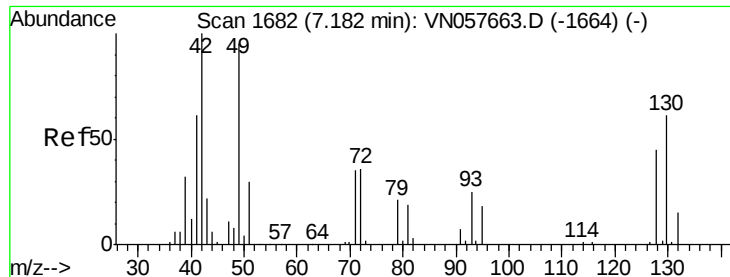
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Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN090519\  
Data File : VN057697.D  
Acq On : 5 Sep 2019 11:47  
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Sample : VN0905WBS01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
Client Sample Id :  
VN0905WBS01

Quant Time: Sep 06 01:29:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N090319W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Sep 04 02:08:50 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampled :  
VN0905WBS01

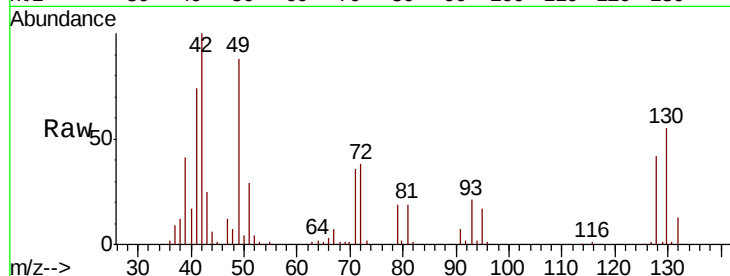
Tgt Ion:128 Resp: 59800

Ion Ratio Lower Upper

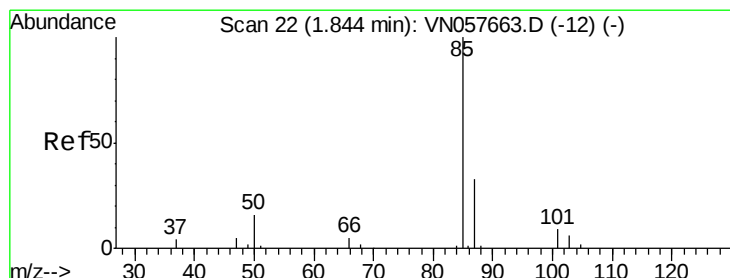
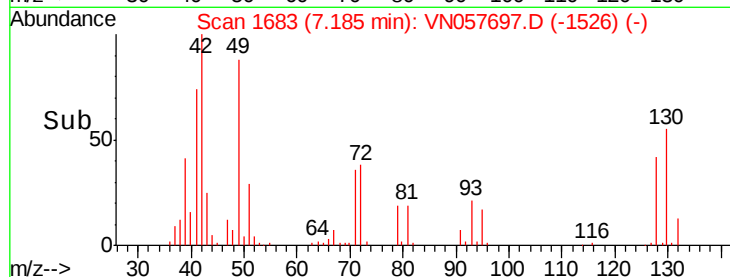
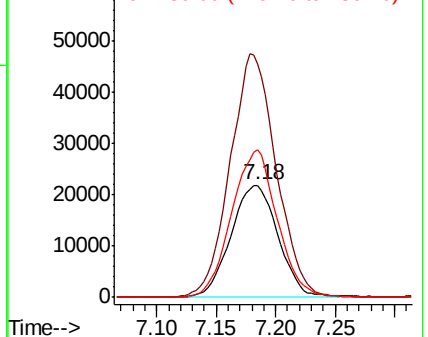
128 100

49 212.4 0.0 544.5

130 127.7 0.0 324.7



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VN  
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 21.622 ug/l

RT: 1.84 min Scan# 22

Delta R.T. 0.00 min

Lab File: VN057697.D

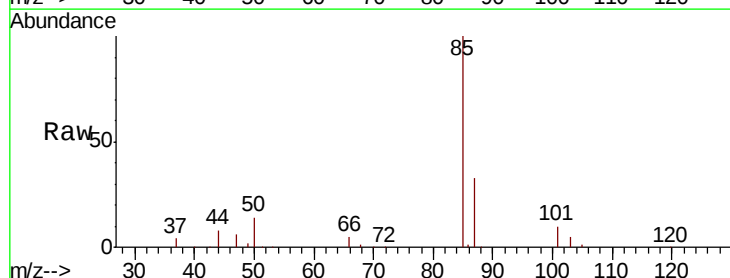
Acq: 5 Sep 2019 11:47

Tgt Ion: 85 Resp: 93153

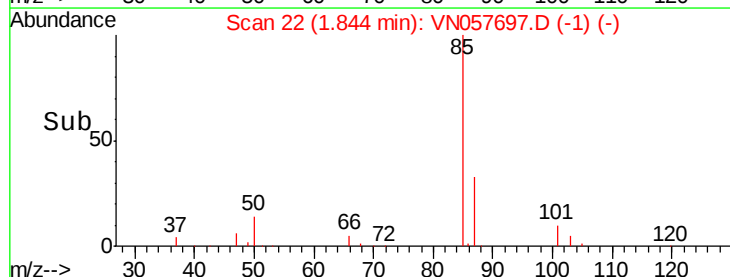
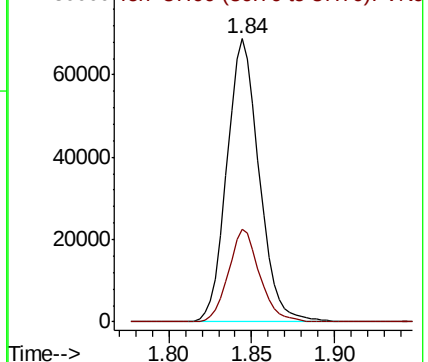
Ion Ratio Lower Upper

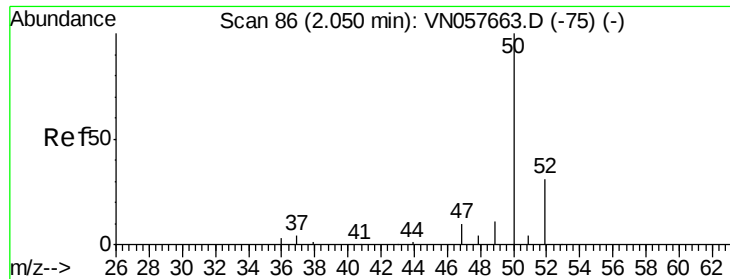
85 100

87 32.8 16.6 49.7



Abundance Ion 85.00 (84.70 to 85.70): VN  
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 20.369 ug/l

RT: 2.05 min Scan# 86

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

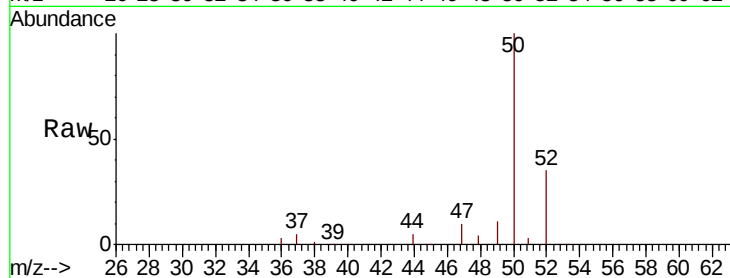
VN0905WBS01

Tgt Ion: 50 Resp: 92545

Ion Ratio Lower Upper

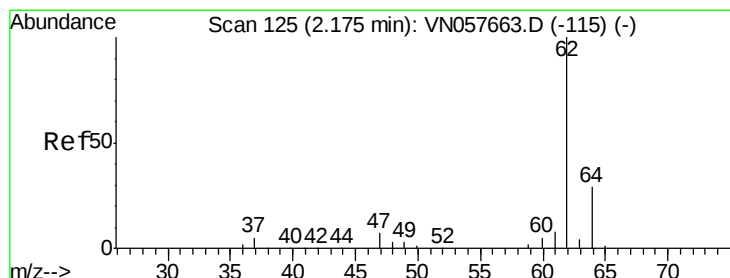
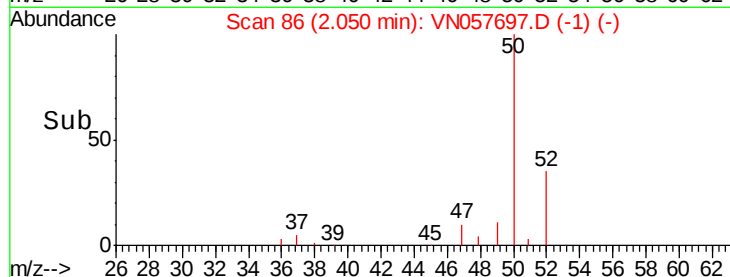
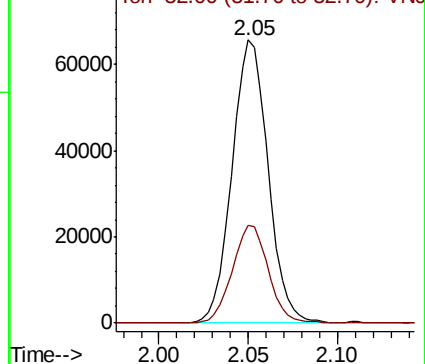
50 100

52 34.6 25.2 37.8



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 21.085 ug/l

RT: 2.18 min Scan# 126

Delta R.T. 0.00 min

Lab File: VN057697.D

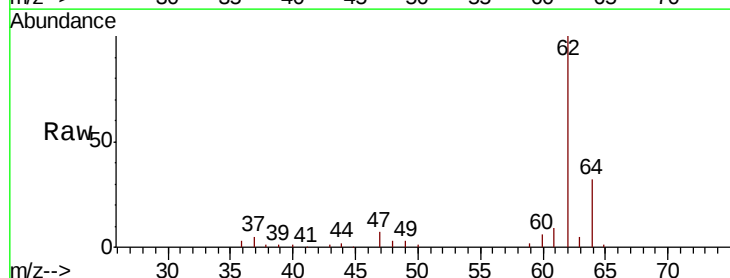
Acq: 5 Sep 2019 11:47

Tgt Ion: 62 Resp: 78338

Ion Ratio Lower Upper

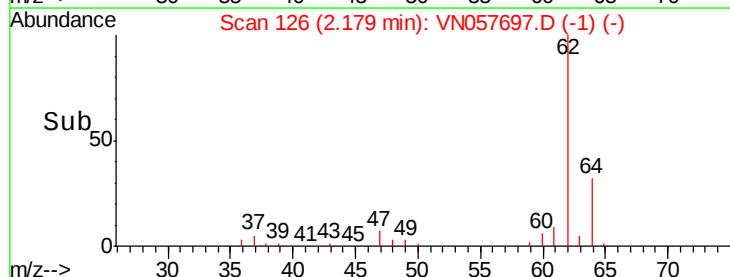
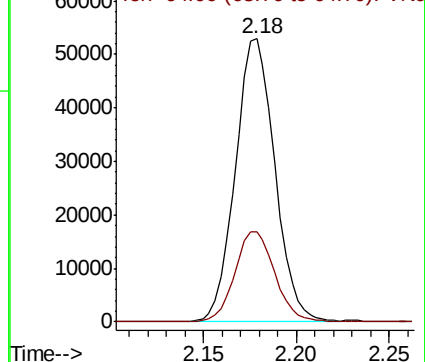
62 100

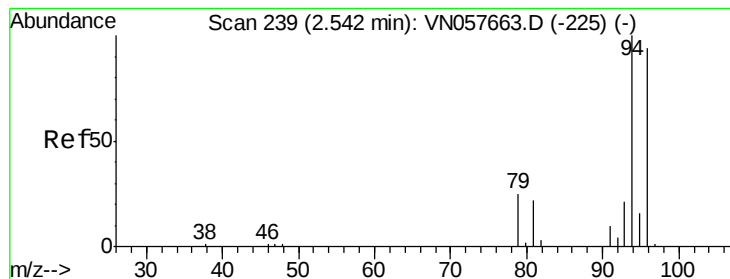
64 31.9 23.2 34.8



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 20.227 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.01 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

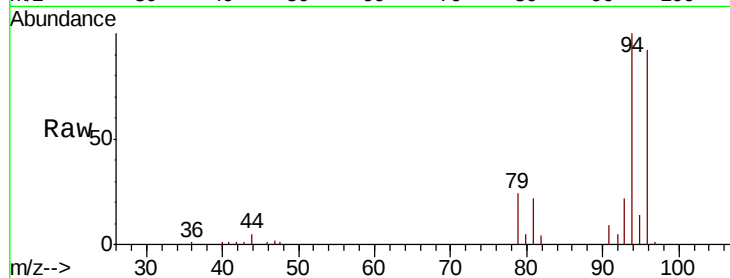
VN0905WBS01

Tgt Ion: 94 Resp: 48045

Ion Ratio Lower Upper

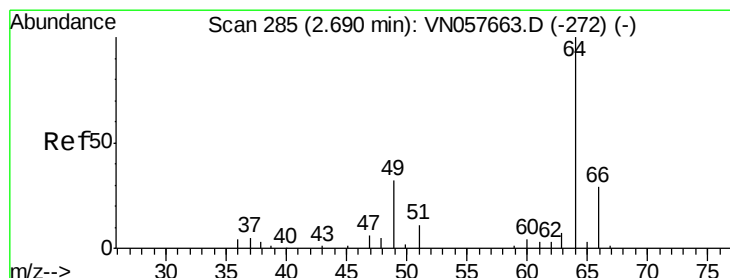
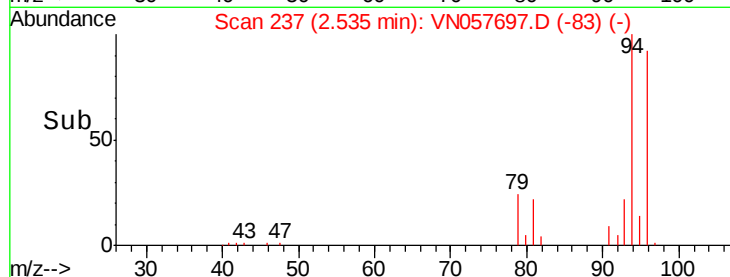
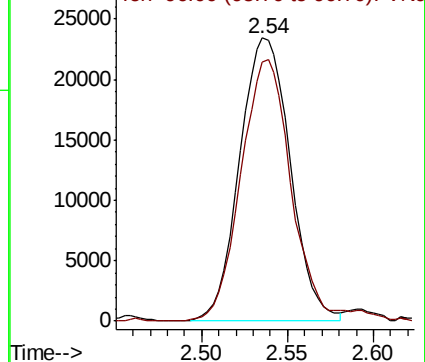
94 100

96 90.9 75.6 113.4



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.842 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN057697.D

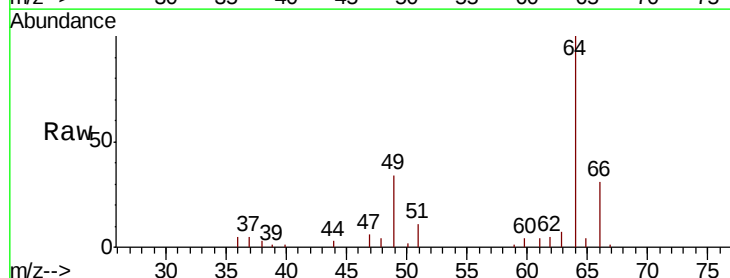
Acq: 5 Sep 2019 11:47

Tgt Ion: 64 Resp: 56546

Ion Ratio Lower Upper

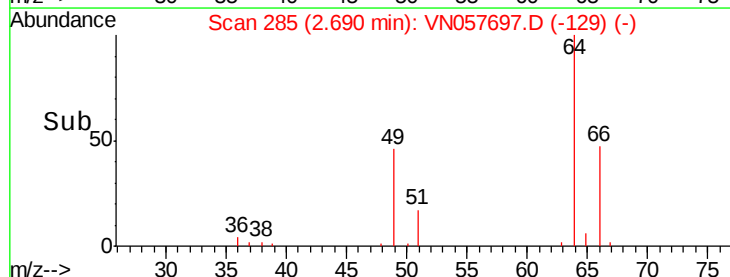
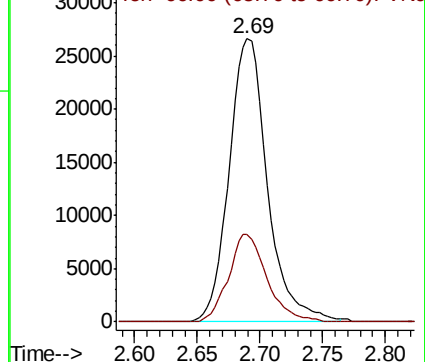
64 100

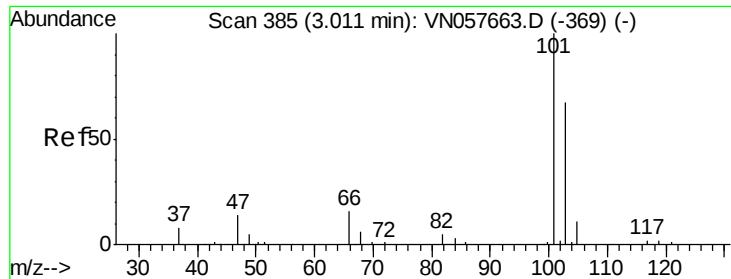
66 30.7 23.5 35.3



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



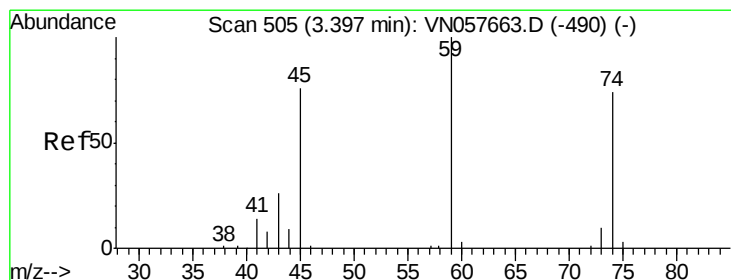
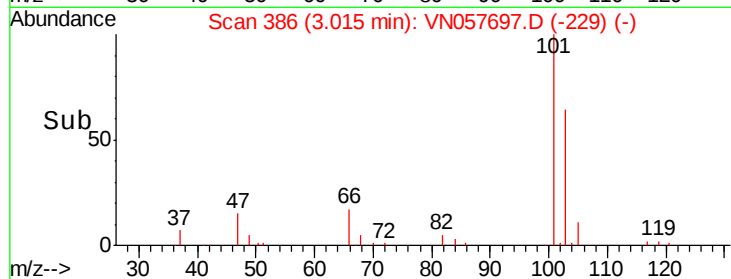
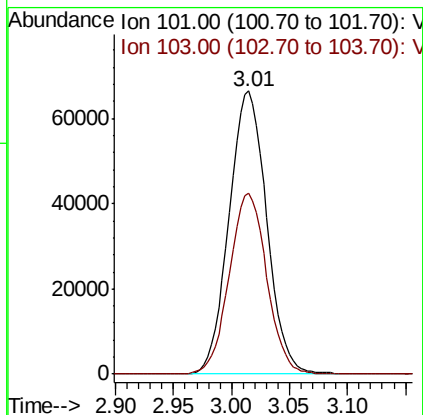
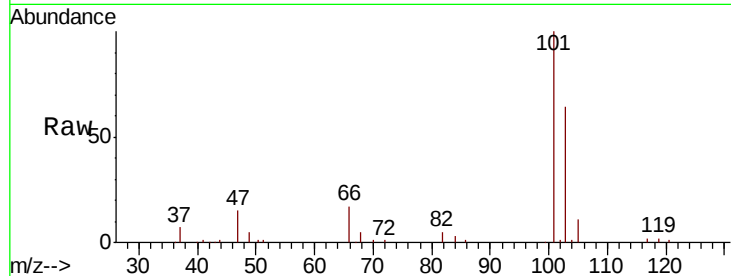


#7

Trichlorofluoromethane  
 Concen: 21.048 ug/l  
 RT: 3.01 min Scan# 386  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

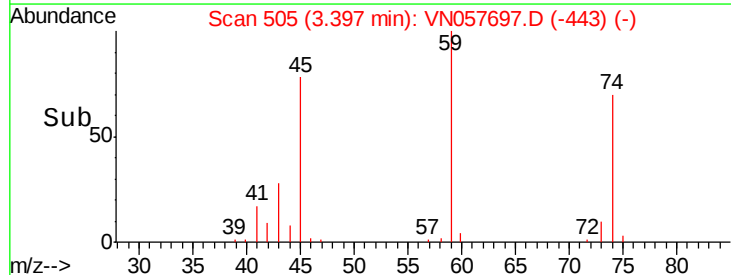
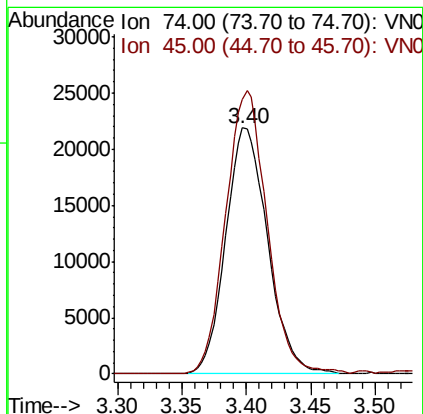
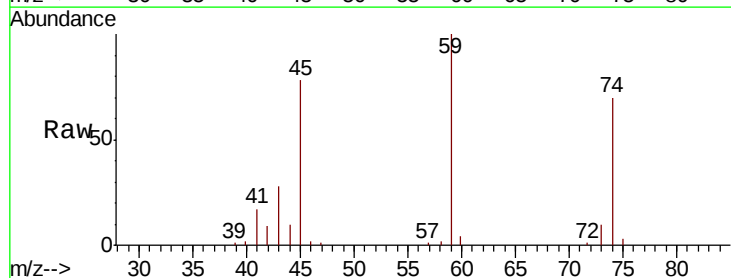
Tgt Ion: 101 Resp: 149777  
 Ion Ratio Lower Upper  
 101 100  
 103 63.9 53.6 80.4

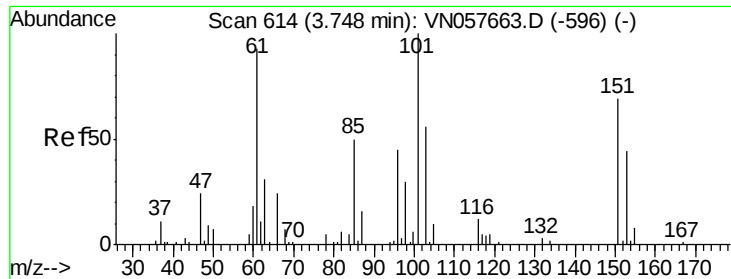


#8

Diethyl Ether  
 Concen: 21.141 ug/l  
 RT: 3.40 min Scan# 505  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 74 Resp: 49483  
 Ion Ratio Lower Upper  
 74 100  
 45 113.8 22.9 205.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.598 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

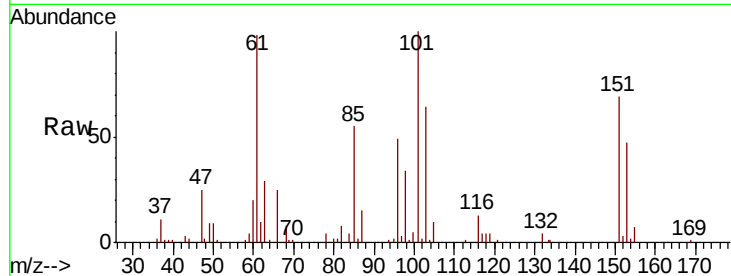
Tgt Ion:101 Resp: 76171

Ion Ratio Lower Upper

101 100

85 52.8 0.0 100.2

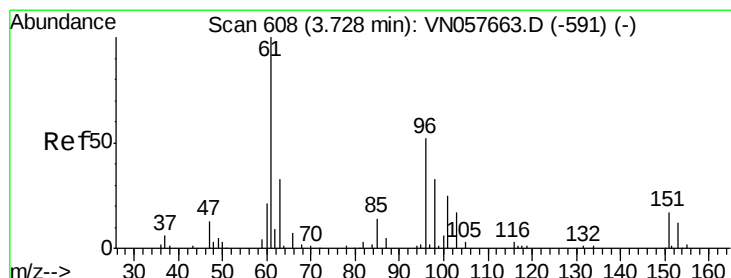
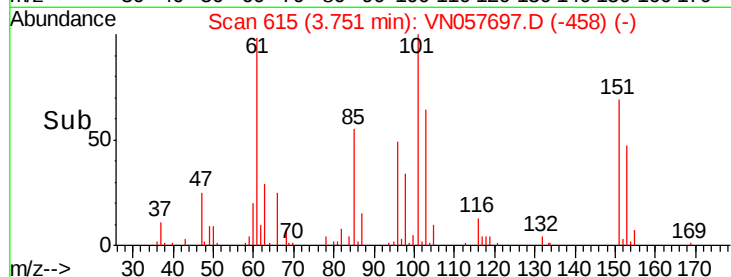
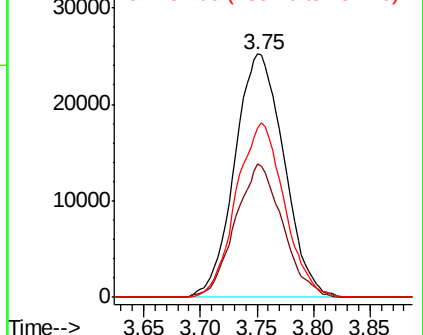
151 69.9 0.0 140.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 21.076 ug/l

RT: 3.73 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

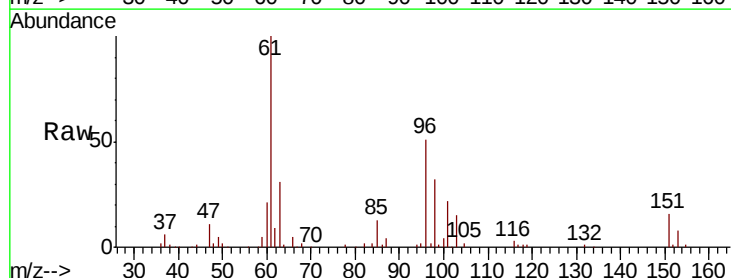
Tgt Ion: 96 Resp: 71104

Ion Ratio Lower Upper

96 100

61 194.6 152.9 229.3

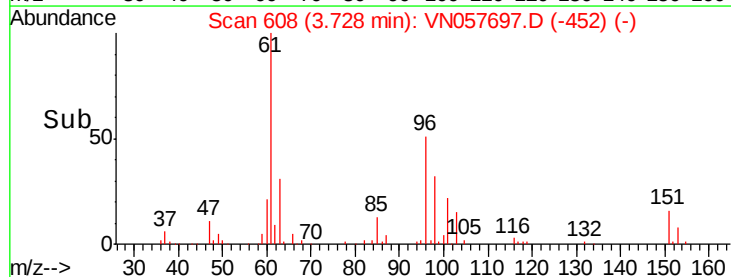
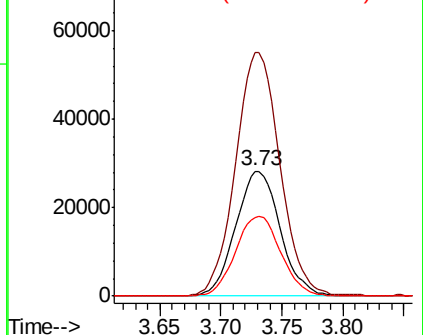
98 63.1 51.0 76.4

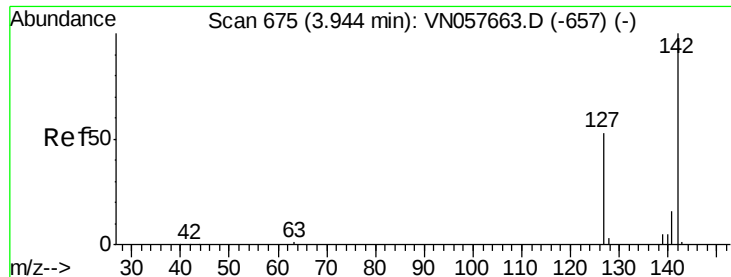


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

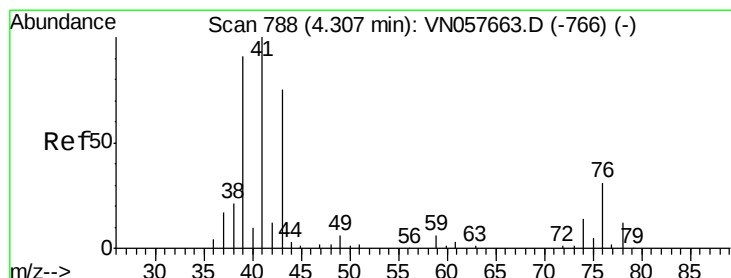
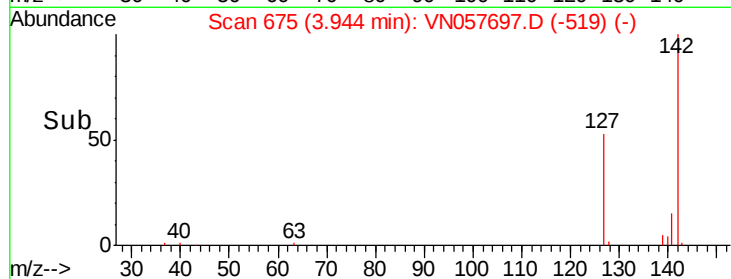
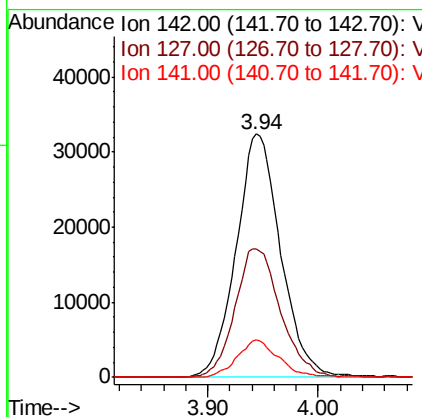
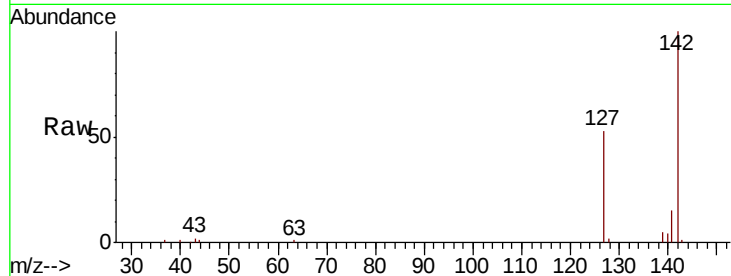




#11  
Methyl Iodide  
Concen: 19.299 ug/l  
RT: 3.94 min Scan# 675  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

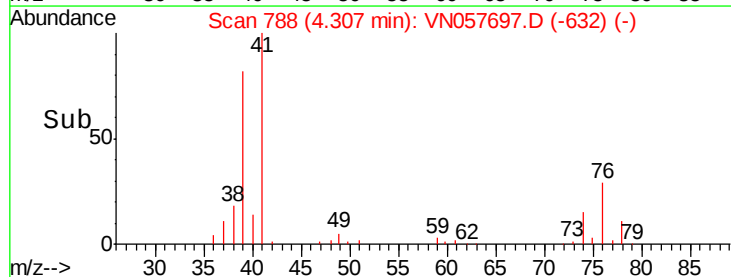
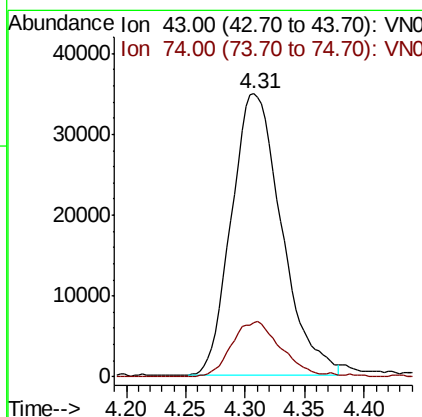
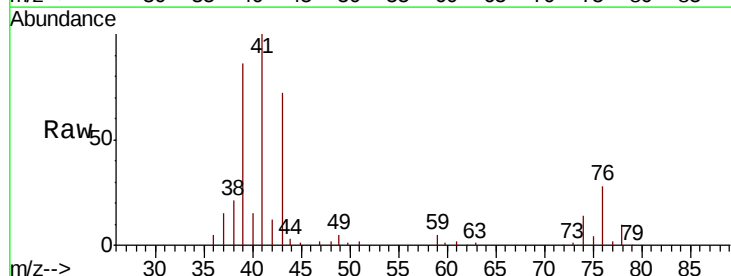
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

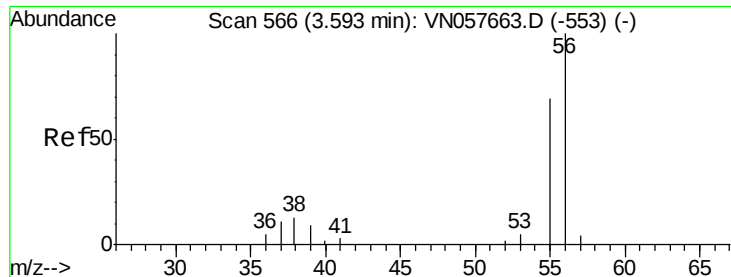
Tgt Ion:142 Resp: 90162  
Ion Ratio Lower Upper  
142 100  
127 52.8 26.2 78.5  
141 15.5 7.6 22.9



#12  
Methyl Acetate  
Concen: 20.092 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 43 Resp: 101202  
Ion Ratio Lower Upper  
43 100  
74 19.5 14.6 22.0





#13

Acrolein

Concen: 79.636 ug/l

RT: 3.59 min Scan# 565

Delta R.T. -0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

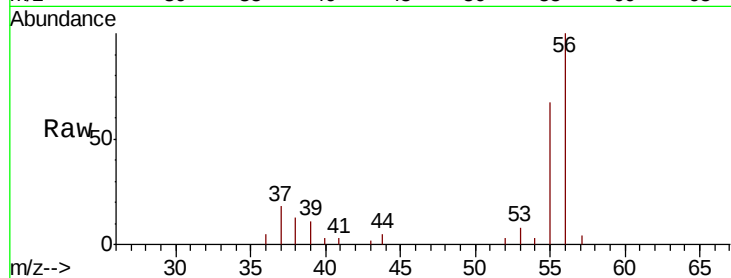
VN0905WBS01

Tgt Ion: 56 Resp: 22760

Ion Ratio Lower Upper

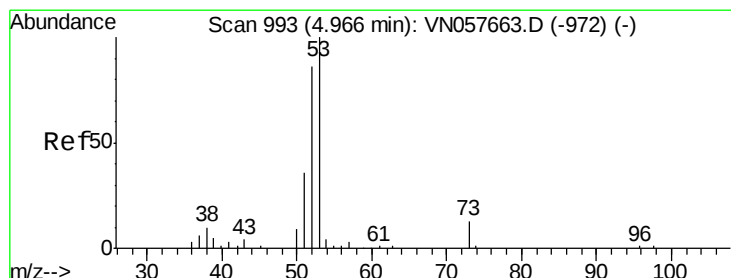
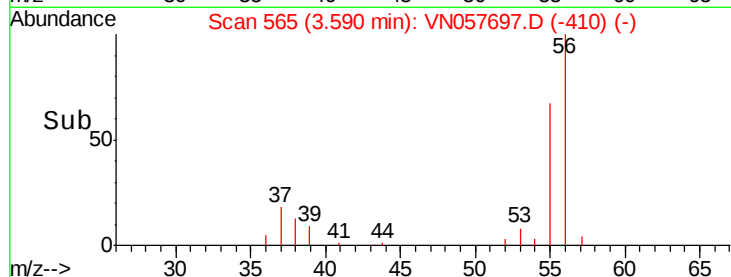
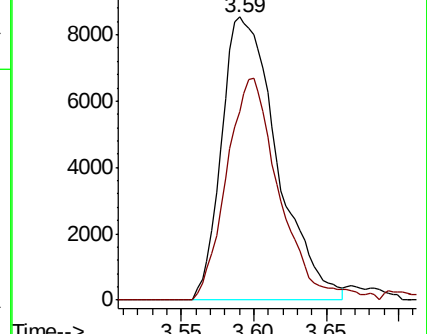
56 100

55 73.0 54.2 81.4



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 99.612 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

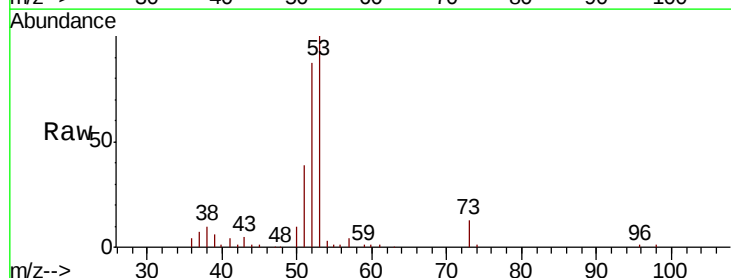
Tgt Ion: 53 Resp: 182610

Ion Ratio Lower Upper

53 100

52 84.9 41.9 125.7

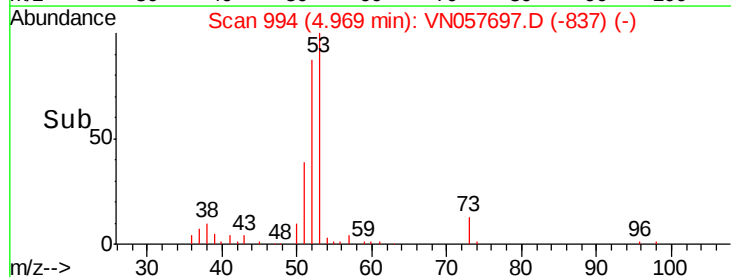
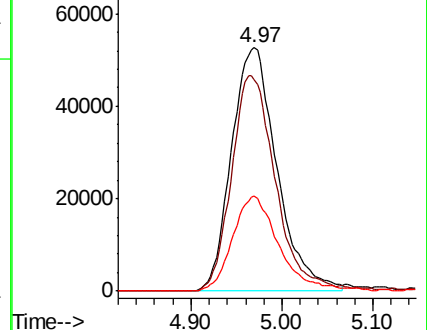
51 38.7 19.4 58.2

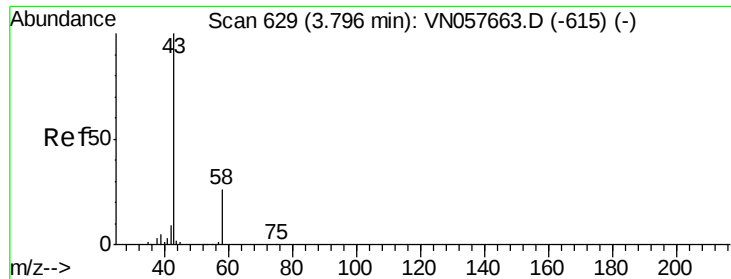


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

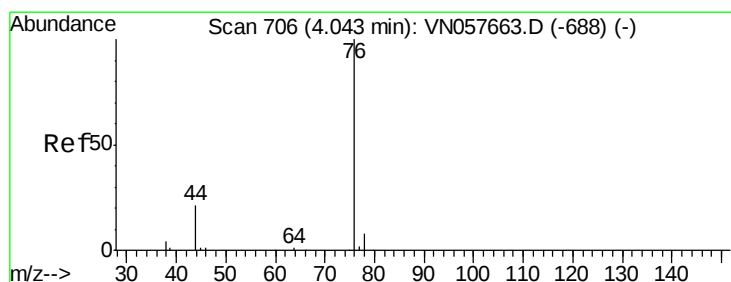
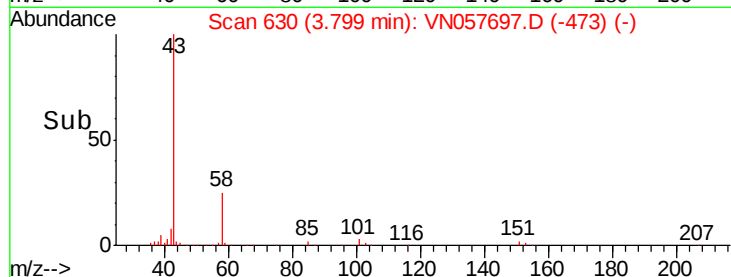
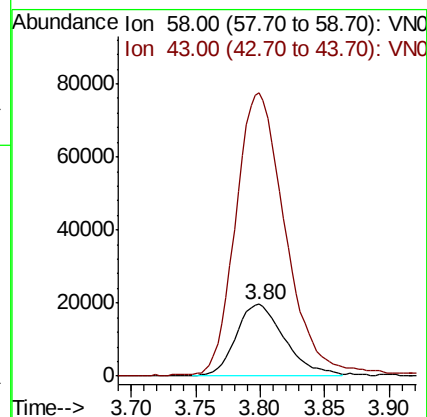
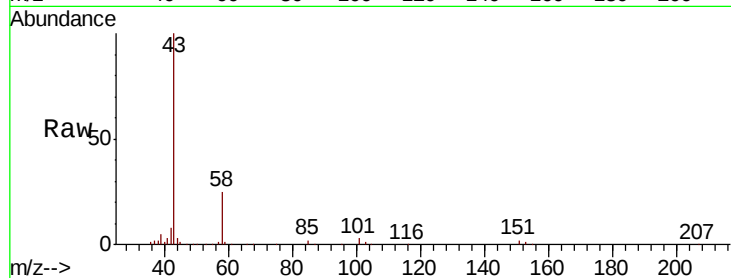




#15  
Acetone  
Concen: 100.736 ug/l  
RT: 3.80 min Scan# 630  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

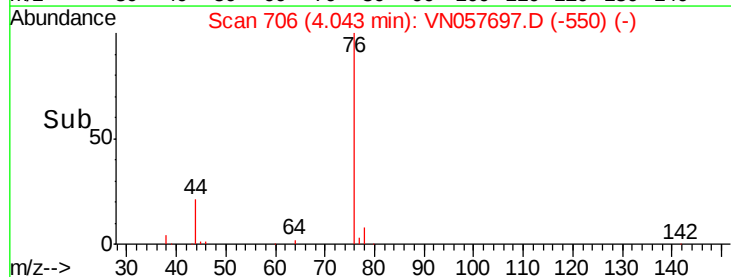
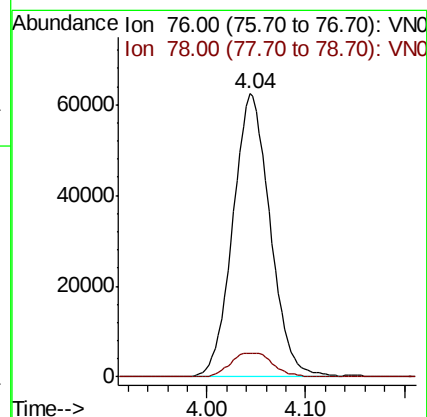
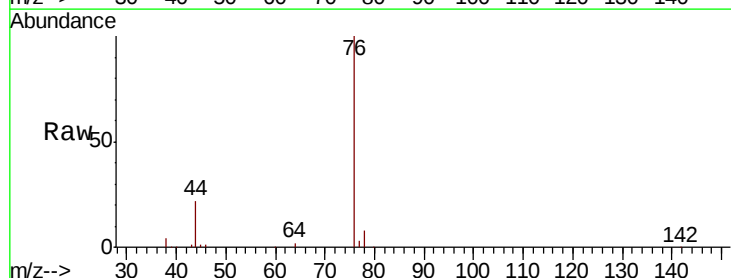
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

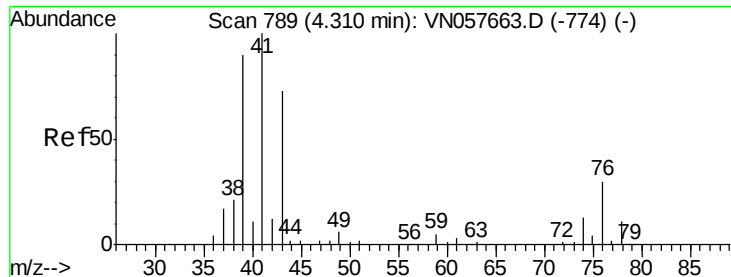
Tgt Ion: 58 Resp: 51800  
Ion Ratio Lower Upper  
58 100  
43 390.9 308.8 463.2



#16  
Carbon Disulfide  
Concen: 19.276 ug/l  
RT: 4.04 min Scan# 706  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 76 Resp: 163366  
Ion Ratio Lower Upper  
76 100  
78 8.3 6.8 10.2

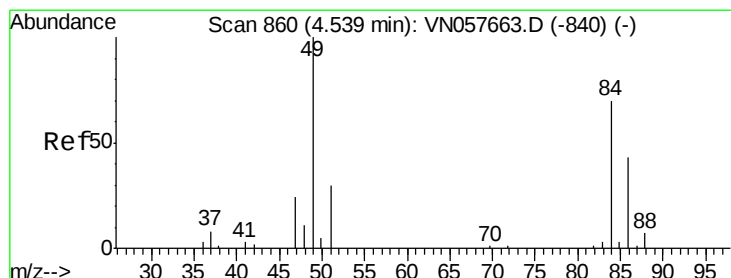
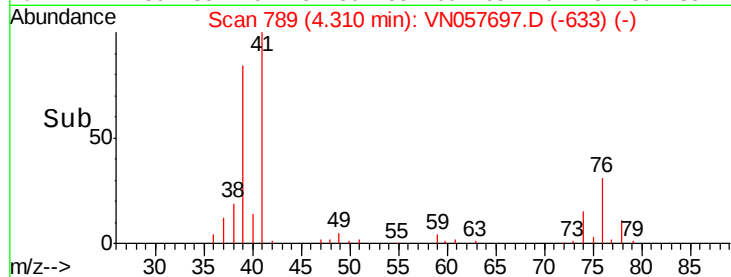
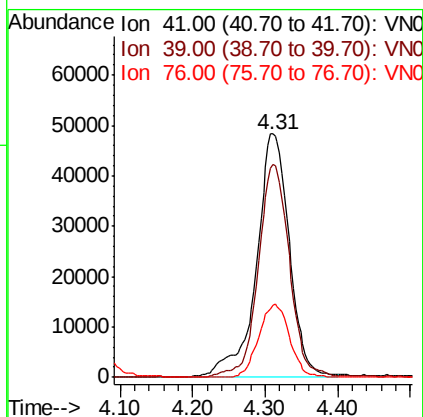
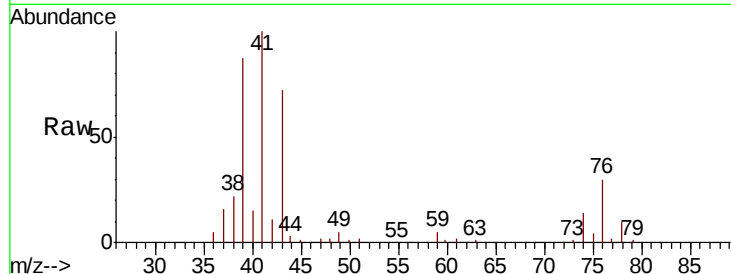




#17  
 Allyl chloride  
 Concen: 21.274 ug/l  
 RT: 4.31 min Scan# 789  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

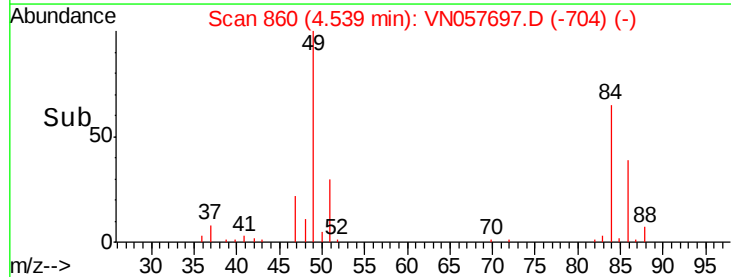
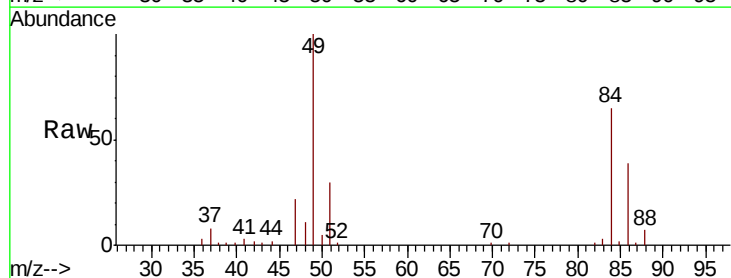
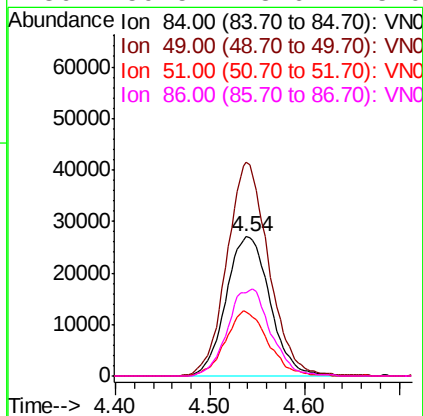
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

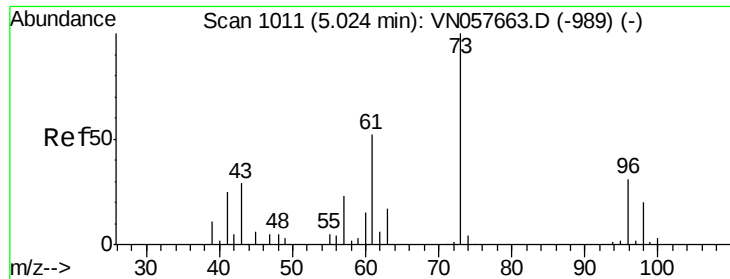
Tgt Ion: 41 Resp: 153284  
 Ion Ratio Lower Upper  
 41 100  
 39 87.3 43.0 128.8  
 76 29.8 14.2 42.8



#18  
 Methylene Chloride  
 Concen: 20.587 ug/l  
 RT: 4.54 min Scan# 860  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 84 Resp: 87032  
 Ion Ratio Lower Upper  
 84 100  
 49 152.4 113.7 170.5  
 51 45.7 34.5 51.7  
 86 59.5 48.6 73.0

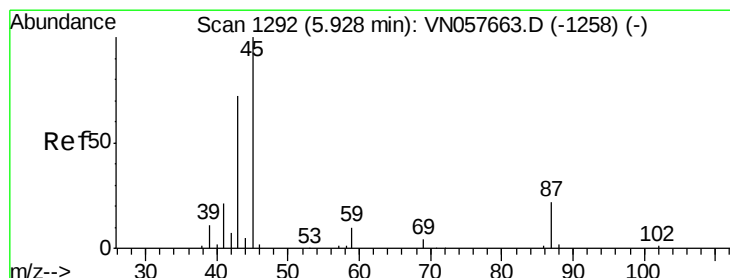
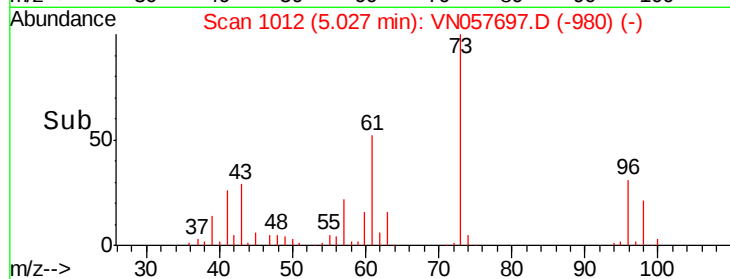
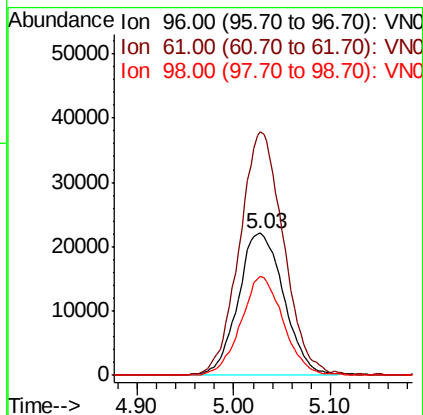
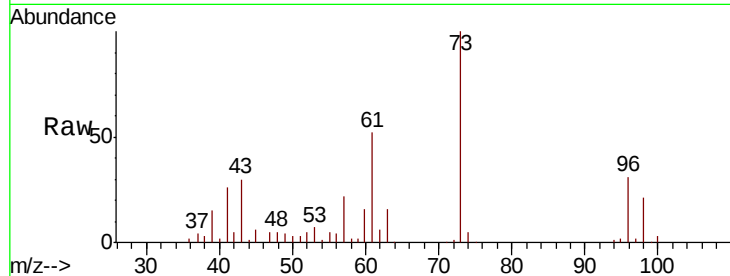




#19  
trans-1,2-Dichloroethene  
Concen: 20.320 ug/l  
RT: 5.03 min Scan# 1012  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

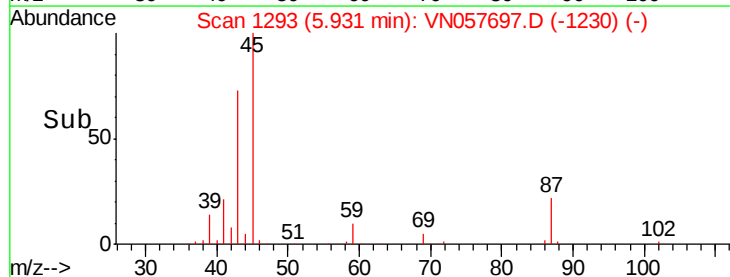
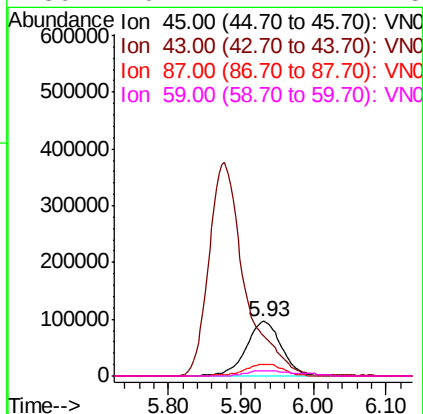
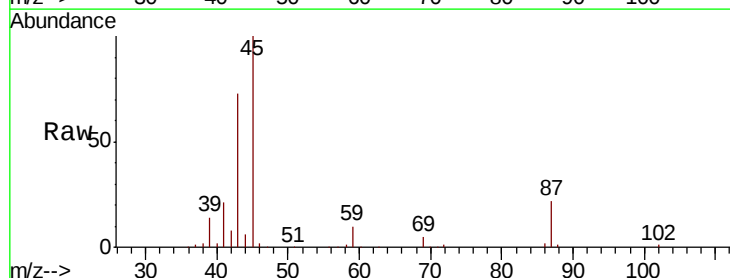
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

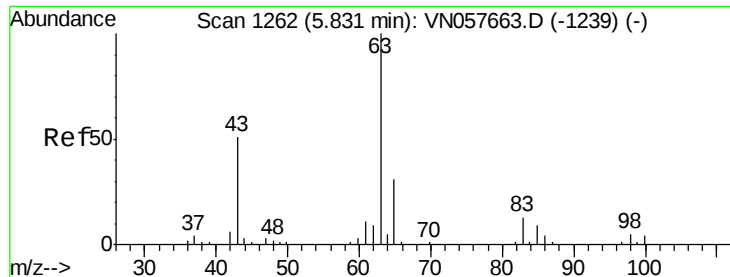
Tgt Ion: 96 Resp: 72515  
Ion Ratio Lower Upper  
96 100  
61 171.0 133.4 200.0  
98 69.4 50.4 75.6



#20  
Diisopropyl ether  
Concen: 20.891 ug/l  
RT: 5.93 min Scan# 1293  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 45 Resp: 324353  
Ion Ratio Lower Upper  
45 100  
43 71.2 58.3 87.5  
87 21.7 18.5 27.7  
59 10.1 7.7 11.5

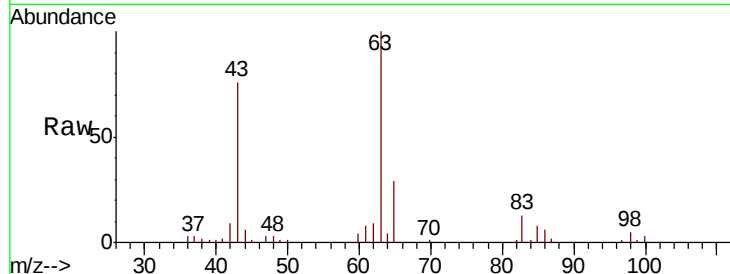




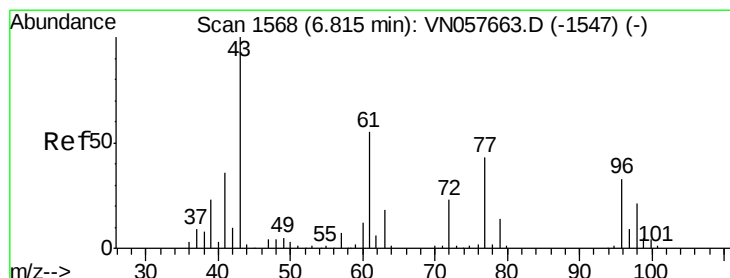
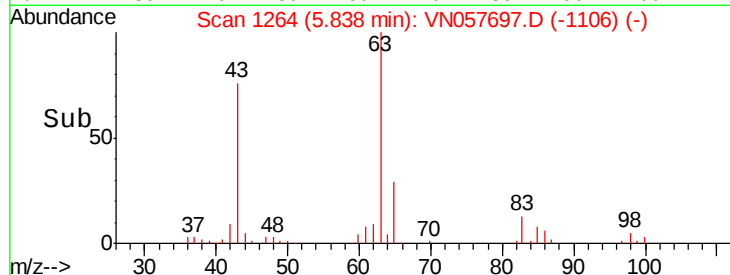
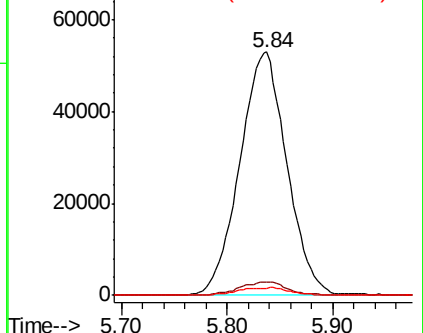
#21  
 1,1-Dichloroethane  
 Concen: 20.528 ug/l  
 RT: 5.84 min Scan# 1264  
 Delta R.T. 0.01 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

Tgt Ion: 63 Resp: 164280  
 Ion Ratio Lower Upper  
 63 100  
 98 5.3 2.6 7.8  
 100 3.1 1.8 5.5

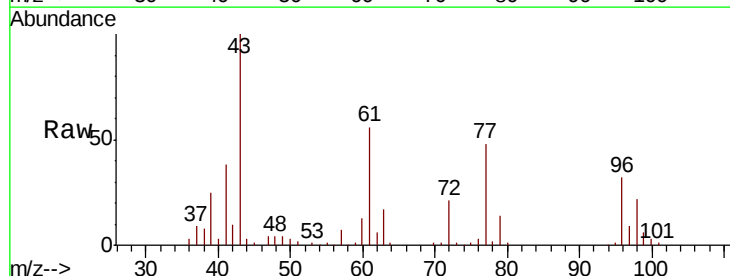


Abundance Ion 63.00 (62.70 to 63.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0  
 Ion 100.00 (99.70 to 100.70): VN0

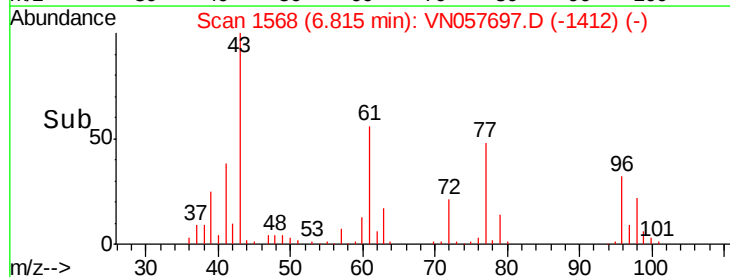
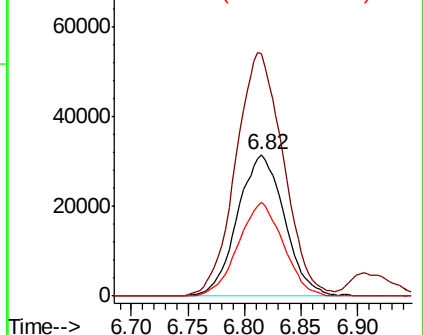


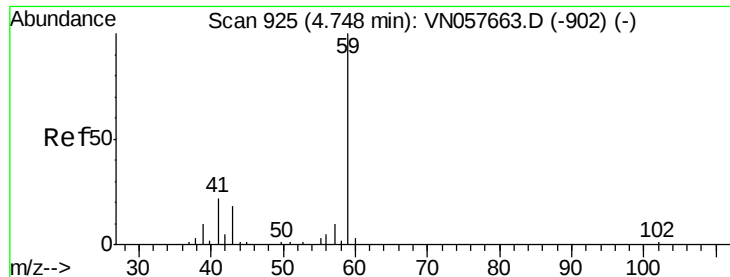
#22  
 cis-1,2-Dichloroethene  
 Concen: 20.812 ug/l  
 RT: 6.82 min Scan# 1568  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 96 Resp: 90717  
 Ion Ratio Lower Upper  
 96 100  
 61 175.3 137.2 205.8  
 98 63.5 50.5 75.7



Abundance Ion 96.00 (95.70 to 96.70): VN0  
 Ion 61.00 (60.70 to 61.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0

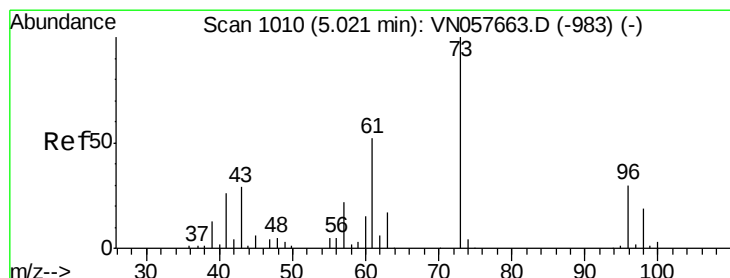
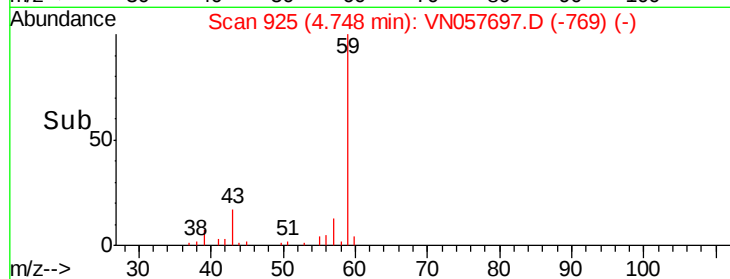
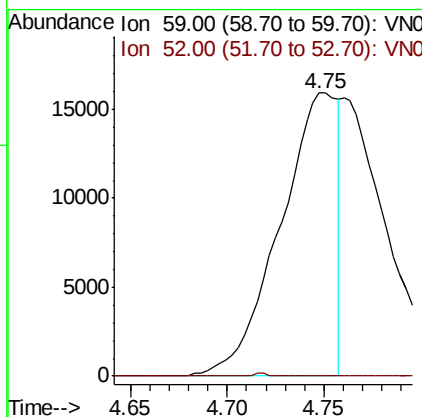
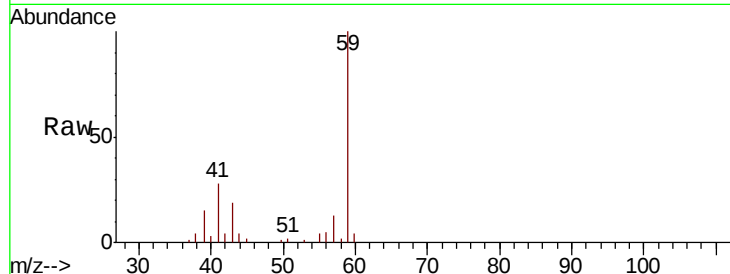




#23  
 tert-Butyl Alcohol  
 Concen: 49.565 ug/l  
 RT: 4.75 min Scan# 925  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

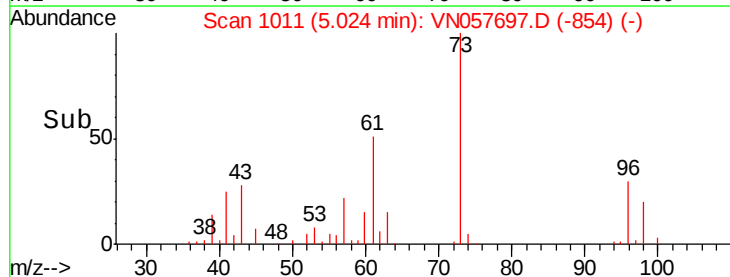
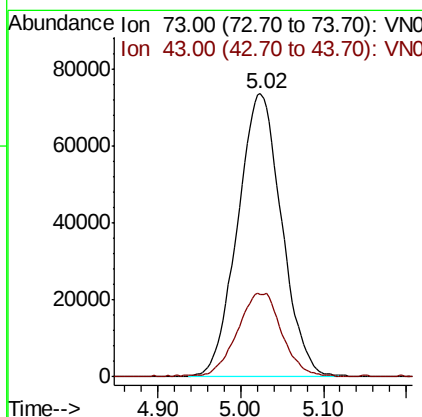
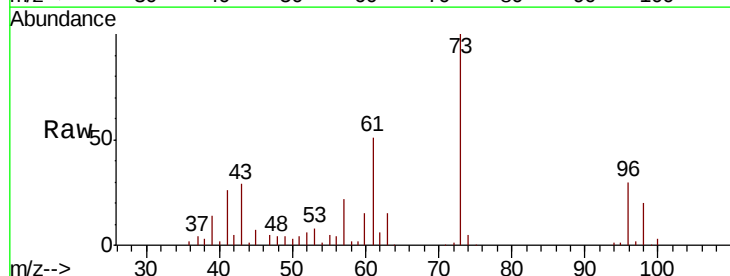
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

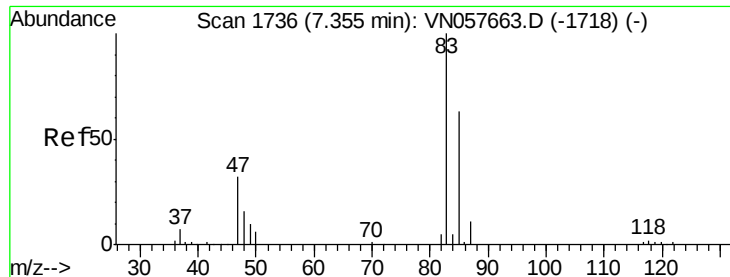
Tgt Ion: 59 Resp: 33039  
 Ion Ratio Lower Upper  
 59 100  
 52 0.2 0.0 0.0#



#24  
 Methyl tert-Butyl Ether  
 Concen: 20.141 ug/l  
 RT: 5.02 min Scan# 1011  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 73 Resp: 269994  
 Ion Ratio Lower Upper  
 73 100  
 43 15.9 23.2 34.8#

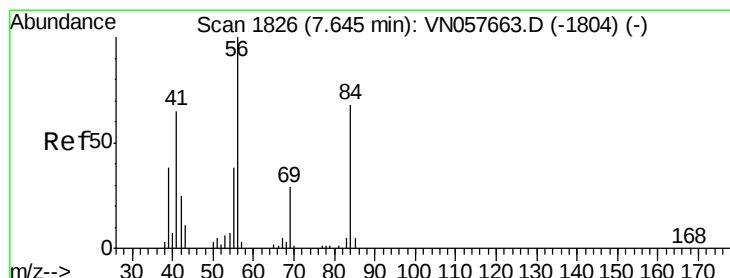
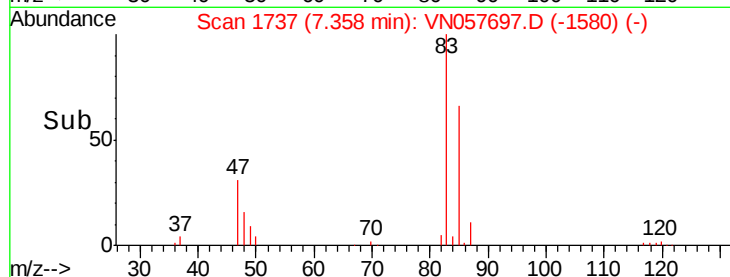
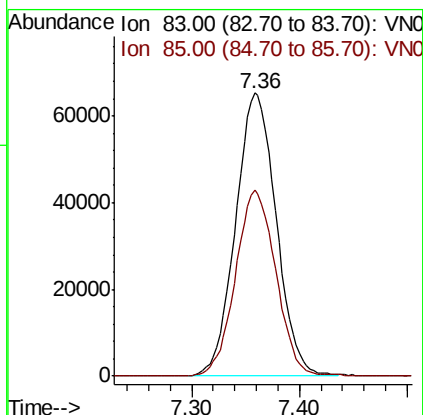
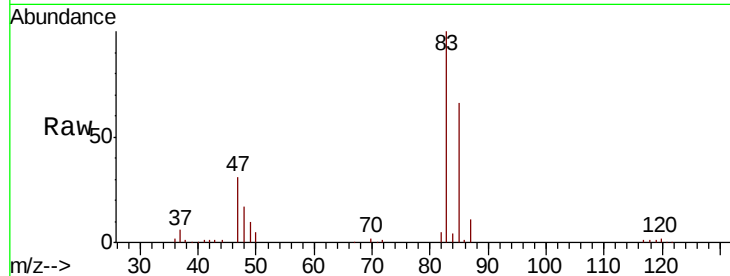




#25  
Chloroform  
Concen: 20.623 ug/l  
RT: 7.36 min Scan# 1737  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

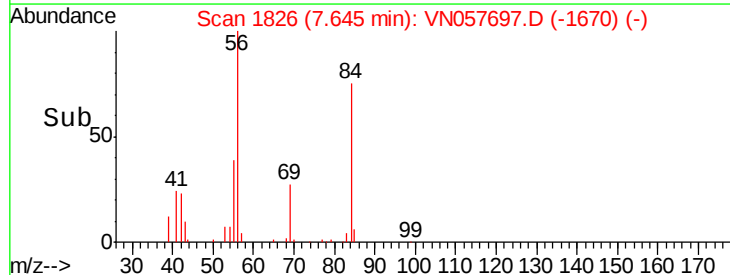
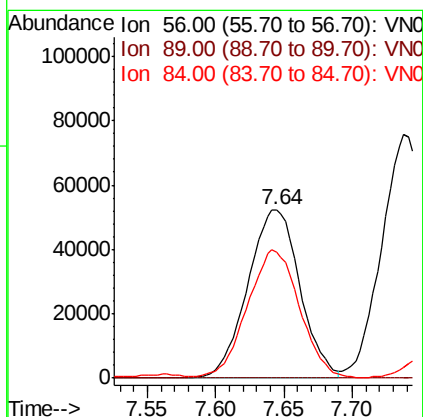
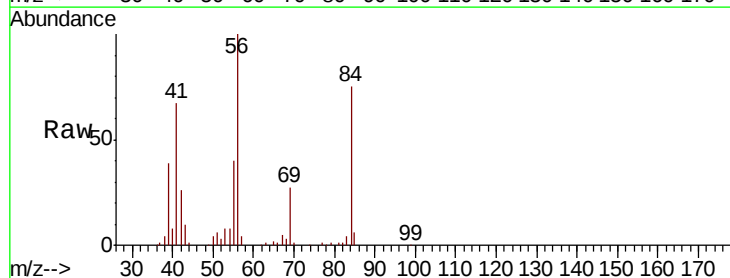
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0905WBS01

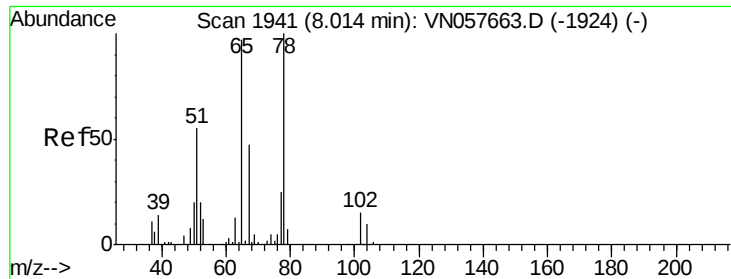
Tgt Ion: 83 Resp: 171078  
Ion Ratio Lower Upper  
83 100  
85 65.7 50.8 76.2



#26  
Cyclohexane  
Concen: 20.374 ug/l  
RT: 7.64 min Scan# 1826  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 56 Resp: 138836  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.0 0.0  
84 76.7 60.4 90.6





#27

1,2-Dichloroethane-d4

Concen: 30.049 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

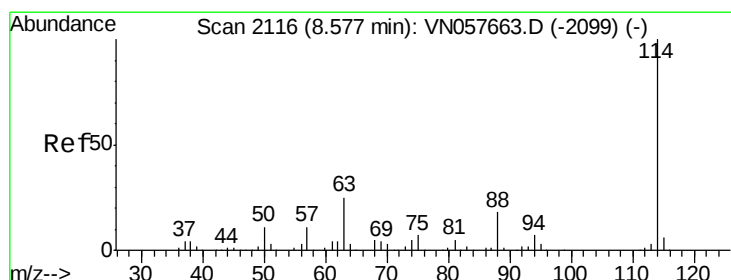
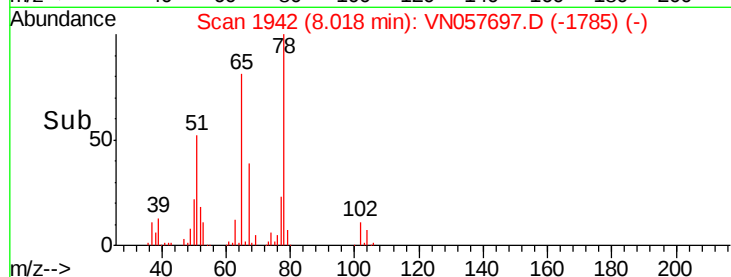
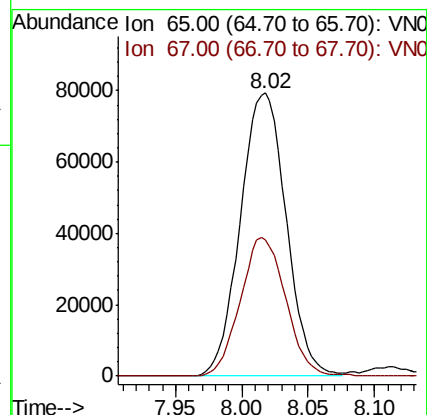
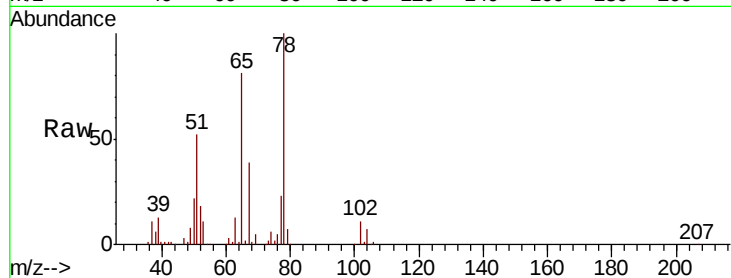
VN0905WBS01

Tgt Ion: 65 Resp: 191024

Ion Ratio Lower Upper

65 100

67 48.4 38.6 57.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

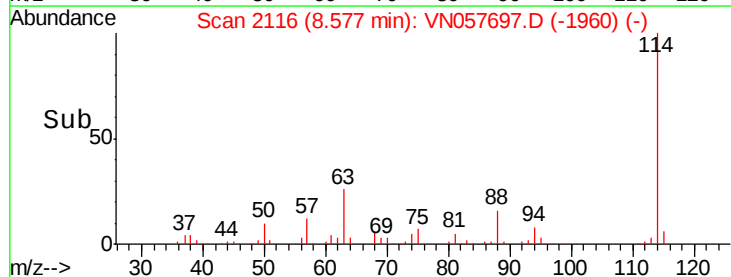
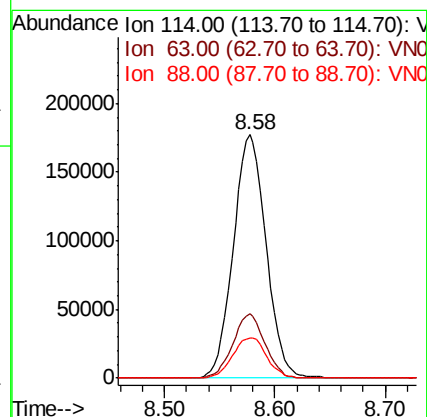
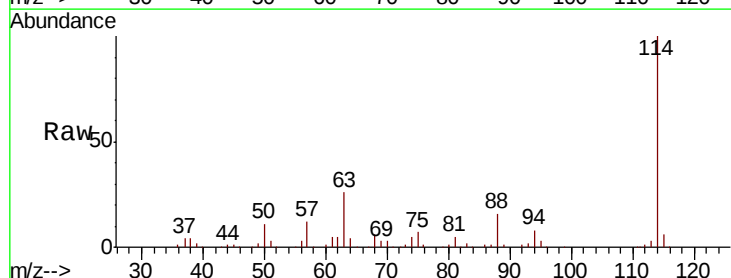
Tgt Ion: 114 Resp: 365238

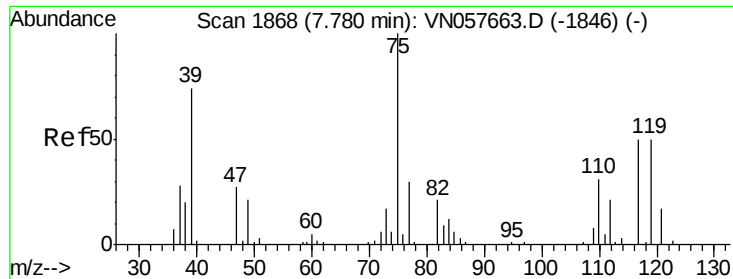
Ion Ratio Lower Upper

114 100

63 25.7 20.6 30.8

88 17.3 14.3 21.5

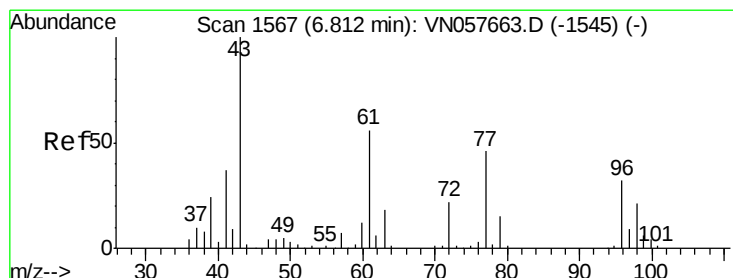
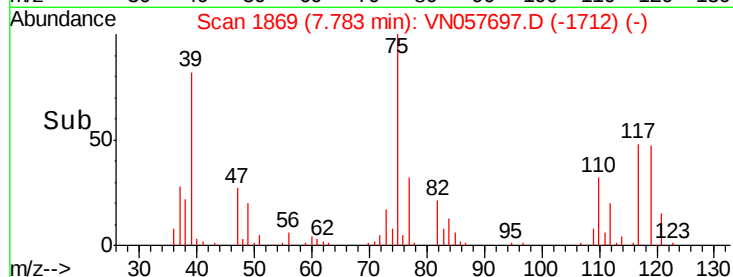
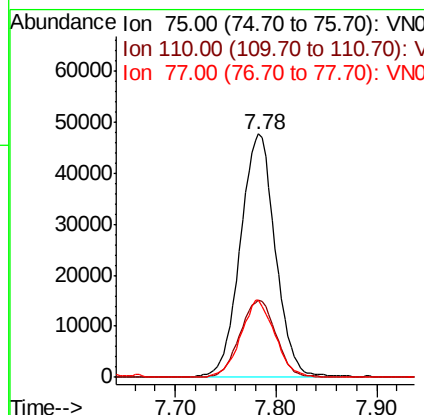
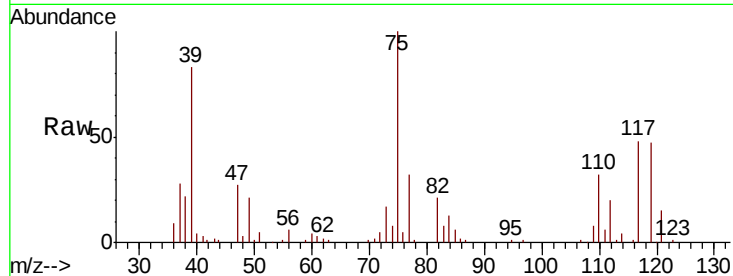




#29  
 1,1-Dichloropropene  
 Concen: 19.635 ug/l  
 RT: 7.78 min Scan# 1869  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

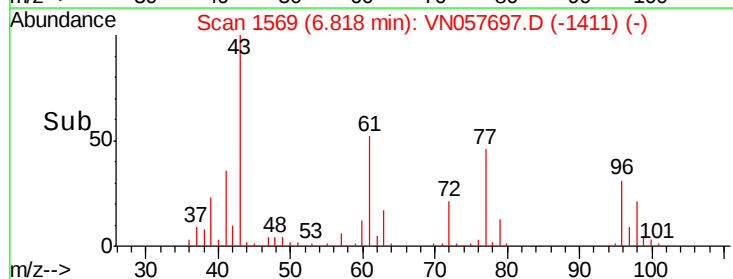
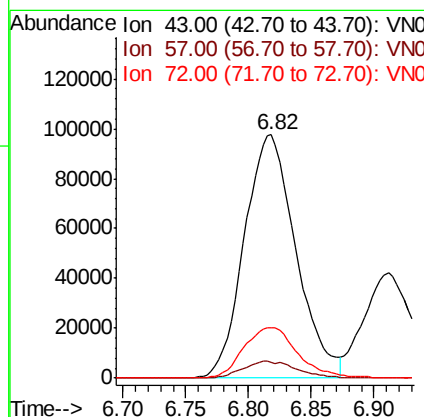
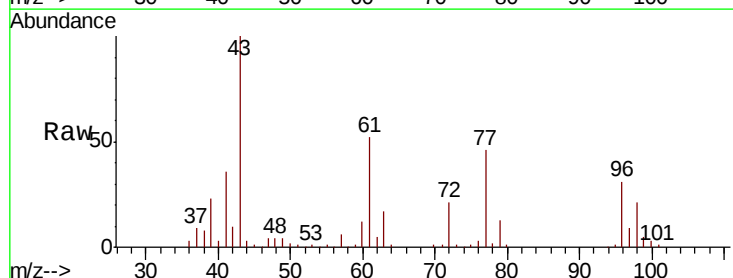
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

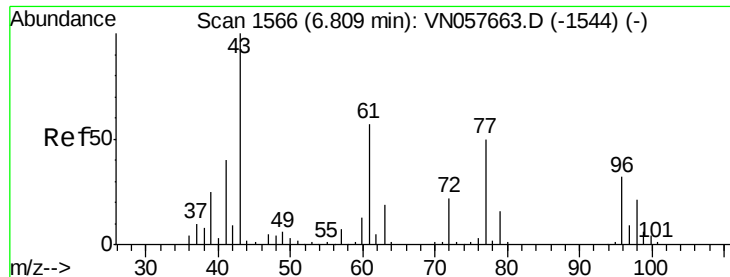
Tgt Ion: 75 Resp: 114519  
 Ion Ratio Lower Upper  
 75 100  
 110 32.6 0.0 62.8  
 77 31.0 0.0 57.8



#30  
 2-Butanone  
 Concen: 100.544 ug/l  
 RT: 6.82 min Scan# 1569  
 Delta R.T. 0.01 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 43 Resp: 277014  
 Ion Ratio Lower Upper  
 43 100  
 57 4.4 2.6 3.8#  
 72 21.7 18.1 27.1





#31

2,2-Dichloropropane

Concen: 20.450 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampled :

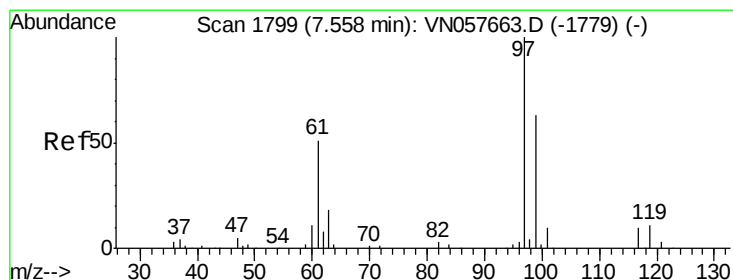
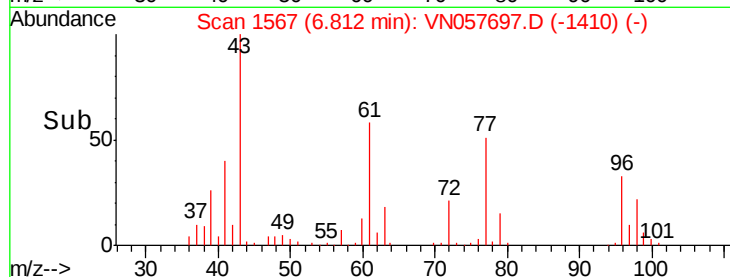
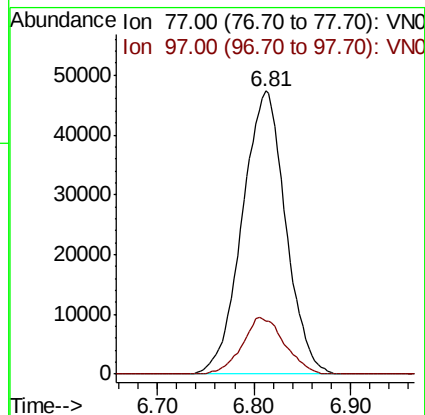
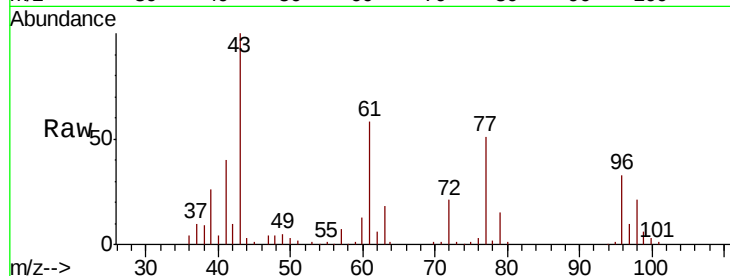
VN0905WBS01

Tgt Ion: 77 Resp: 147614

Ion Ratio Lower Upper

77 100

97 19.6 8.8 13.2#



#32

1,1,1-Trichloroethane

Concen: 20.652 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

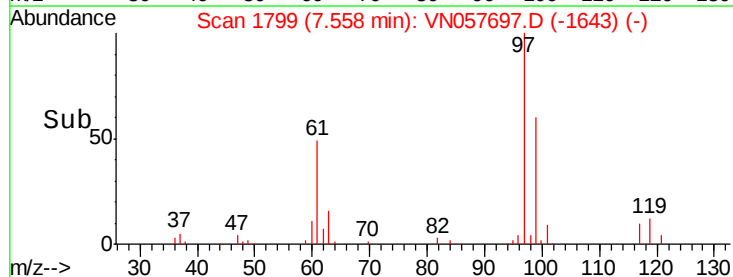
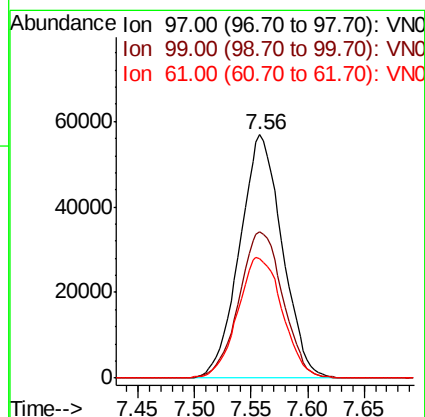
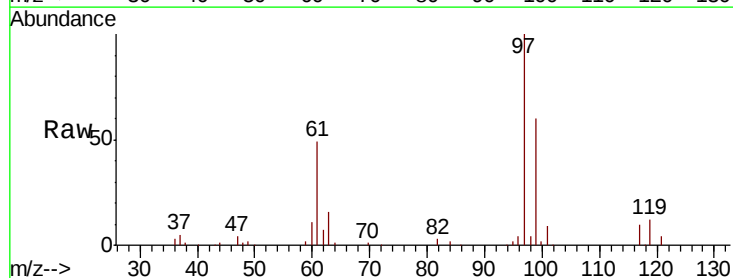
Tgt Ion: 97 Resp: 149117

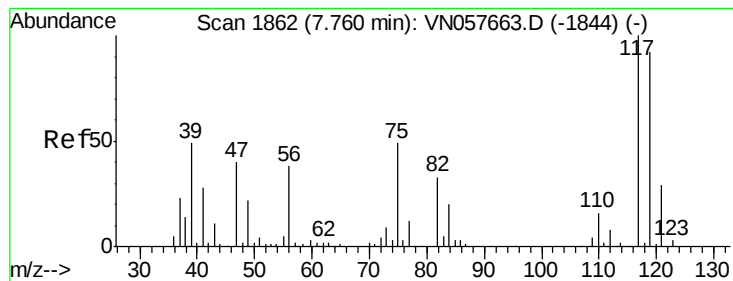
Ion Ratio Lower Upper

97 100

99 61.9 51.9 77.9

61 52.0 41.4 62.0





#33

Carbon Tetrachloride

Concen: 20.039 ug/l

RT: 7.76 min Scan# 1863

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

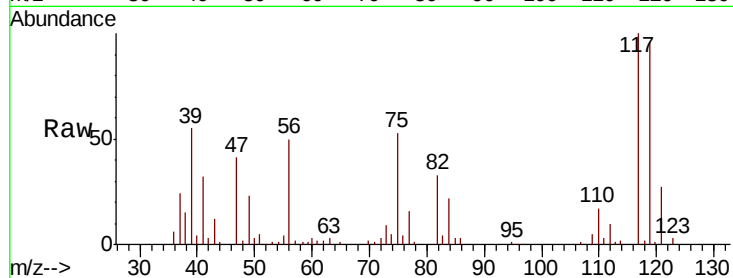
Tgt Ion:117 Resp: 117502

Ion Ratio Lower Upper

117 100

119 95.8 73.3 109.9

121 27.5 23.3 34.9

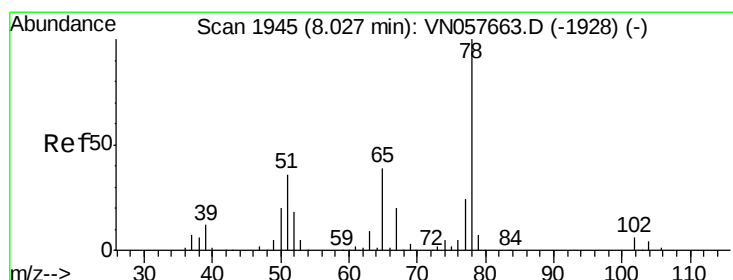
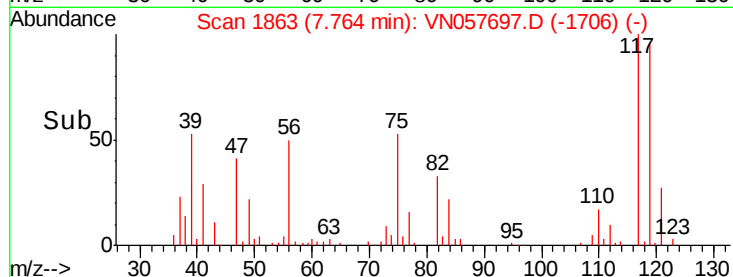
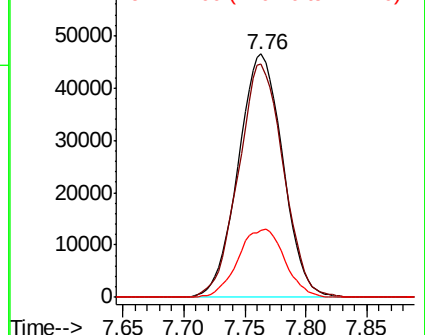


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 20.066 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

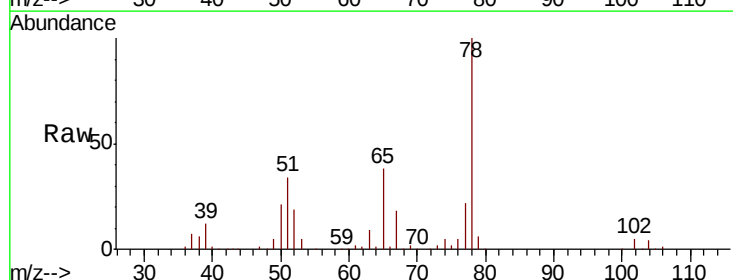
Tgt Ion: 78 Resp: 336177

Ion Ratio Lower Upper

78 100

77 22.2 18.8 28.2

51 33.6 29.0 43.6

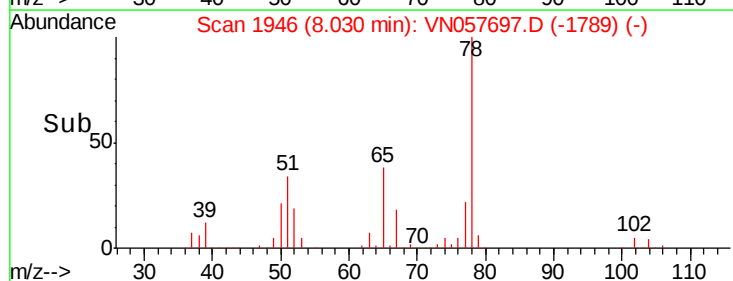
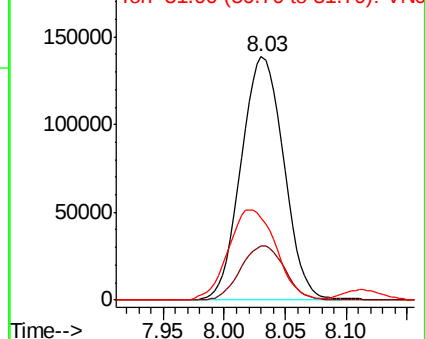


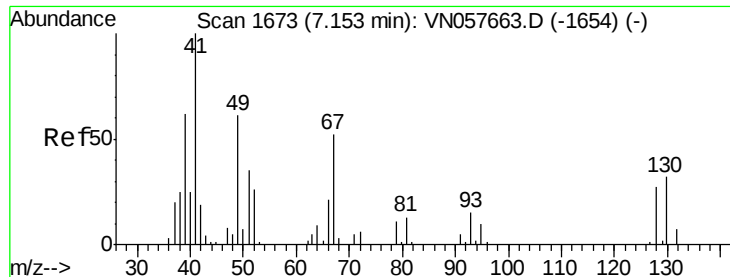
Abundance

Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

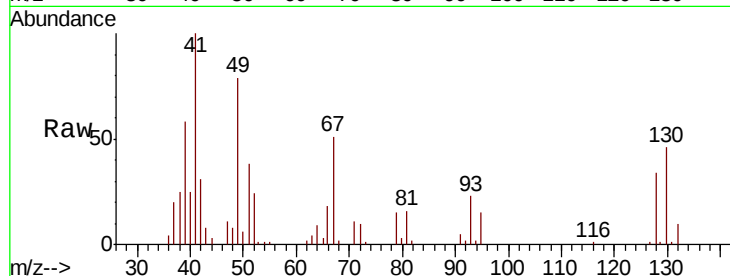




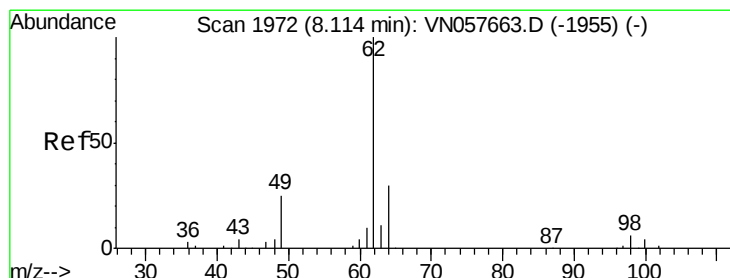
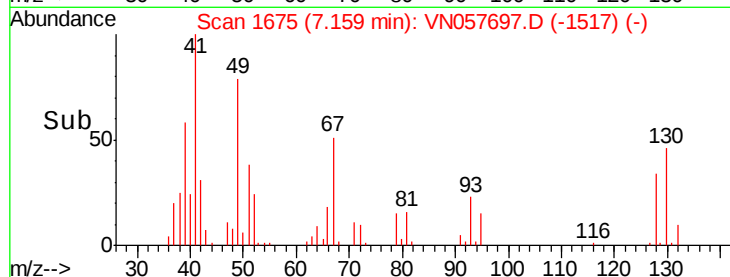
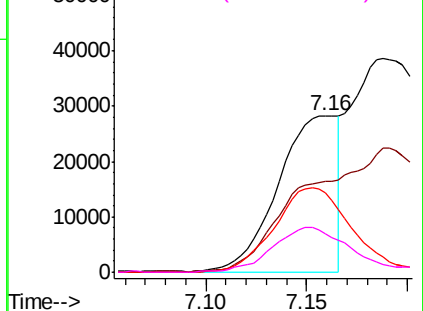
#35  
Methacrylonitrile  
Concen: 23.078 ug/l  
RT: 7.16 min Scan# 1675  
Delta R.T. 0.01 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 58246 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 58.3  | 31.0  | 93.0  |
| 67       | 50.7  | 25.9  | 77.7  |
| 52       | 24.5  | 12.9  | 38.7  |

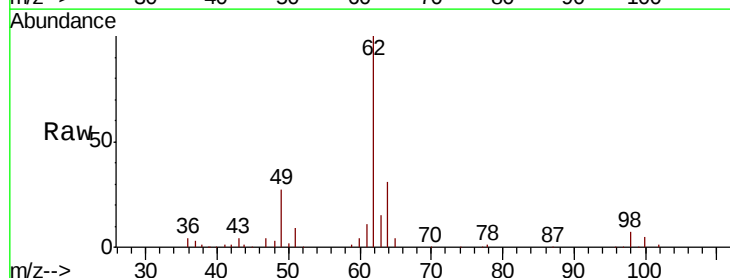


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO  
Ion 67.00 (66.70 to 67.70): VNO  
Ion 52.00 (51.70 to 52.70): VNO

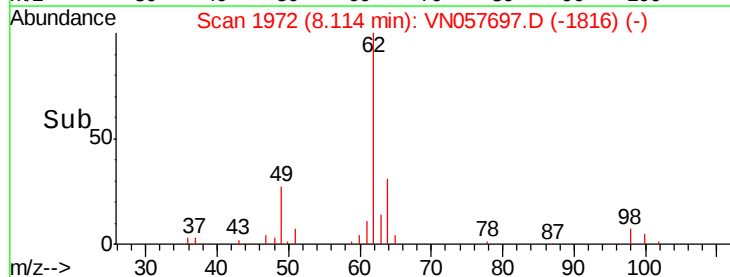
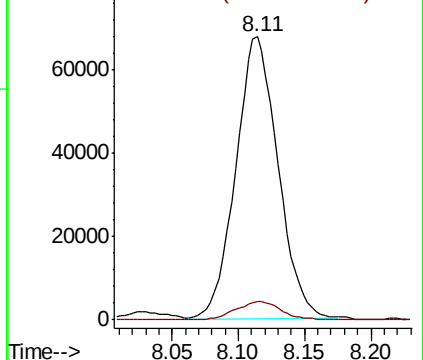


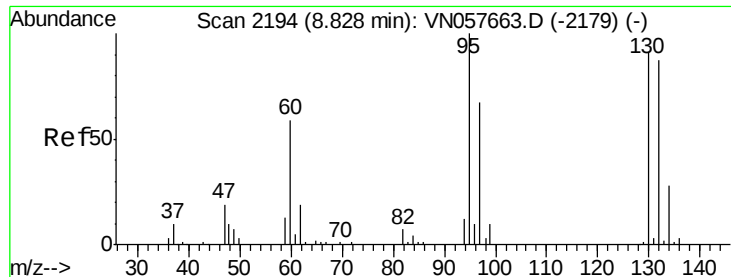
#36  
1,2-Dichloroethane  
Concen: 20.021 ug/l  
RT: 8.11 min Scan# 1972  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 149475 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 6.9   | 0.0   | 0.0#   |



Abundance Ion 62.00 (61.70 to 62.70): VNO  
Ion 98.00 (97.70 to 98.70): VNO

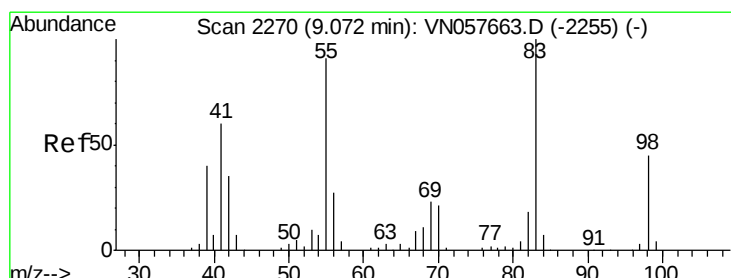
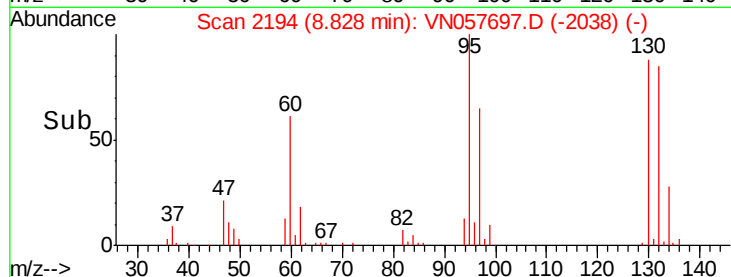
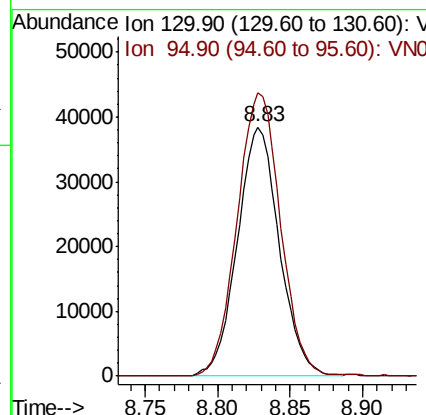
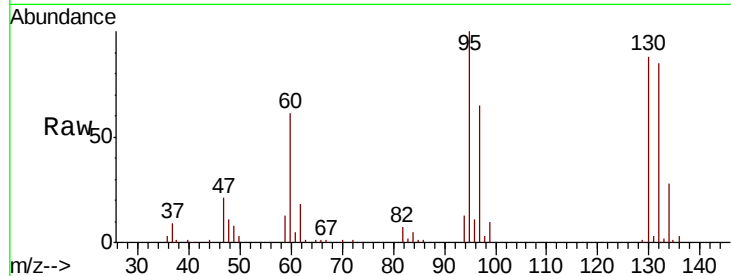




#37  
 Trichloroethene  
 Concen: 19.403 ug/l  
 RT: 8.83 min Scan# 2194  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

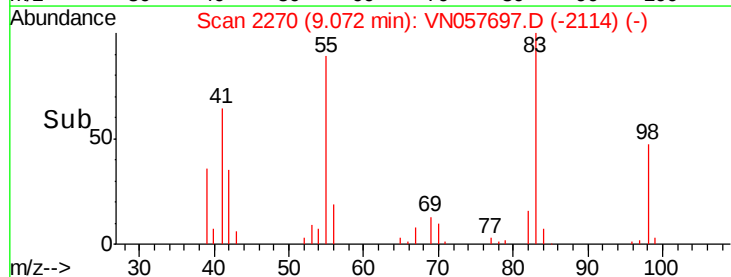
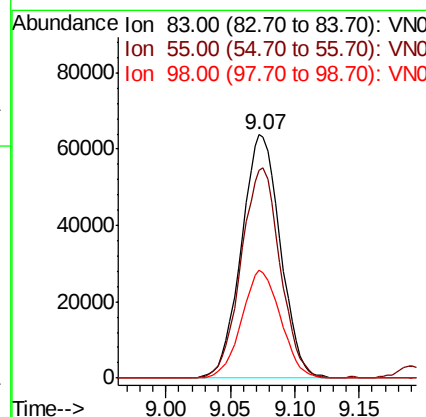
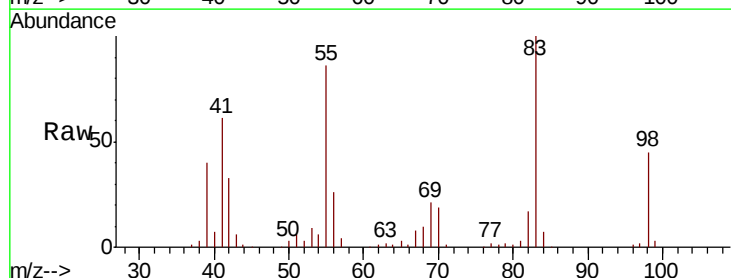
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

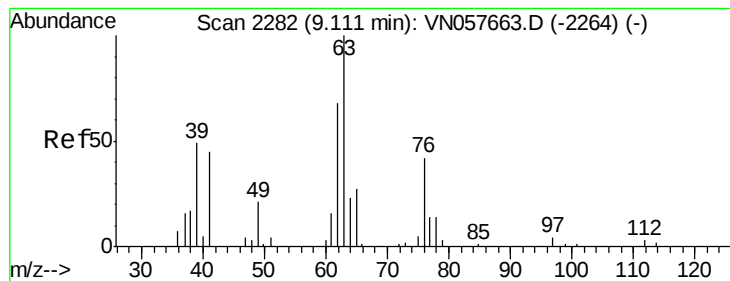
Tgt Ion: 130 Resp: 77186  
 Ion Ratio Lower Upper  
 130 100  
 95 113.6 87.5 131.3



#38  
 Methylcyclohexane  
 Concen: 20.780 ug/l  
 RT: 9.07 min Scan# 2270  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 83 Resp: 134484  
 Ion Ratio Lower Upper  
 83 100  
 55 86.3 45.1 135.3  
 98 44.1 22.5 67.5





#39

1,2-Dichloropropane

Concen: 20.252 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

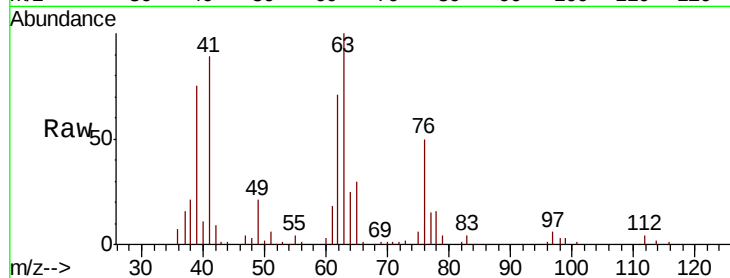
VN0905WBS01

Tgt Ion: 63 Resp: 92778

Ion Ratio Lower Upper

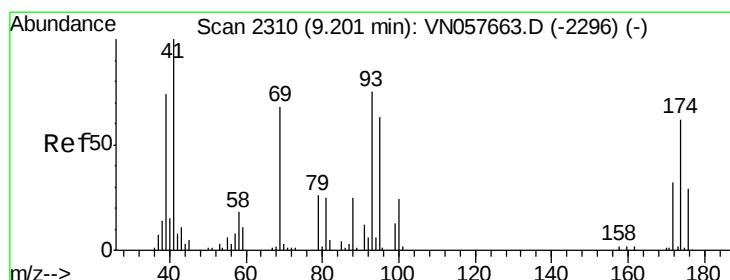
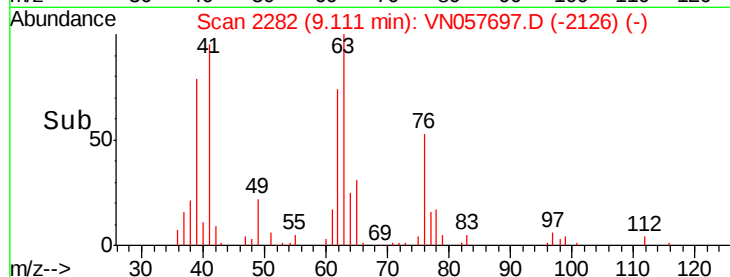
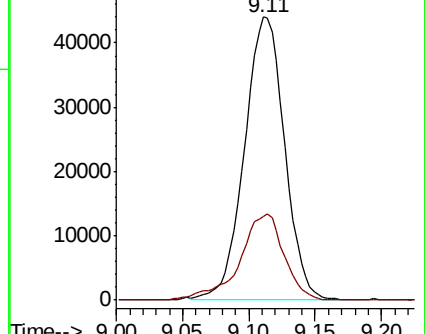
63 100

65 29.6 22.2 33.2



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 20.438 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

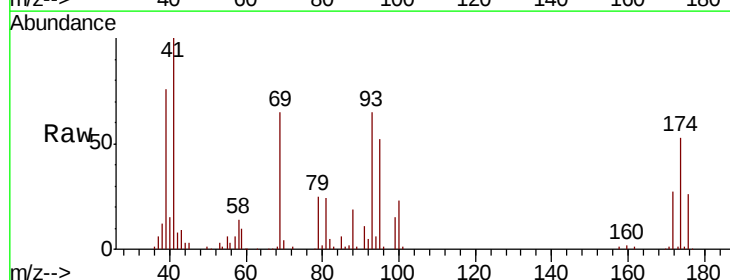
Tgt Ion: 93 Resp: 60695

Ion Ratio Lower Upper

93 100

95 82.2 0.0 168.2

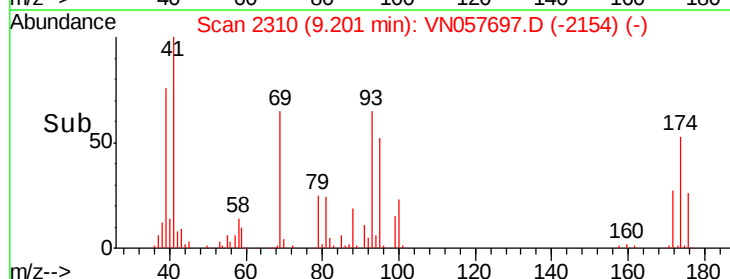
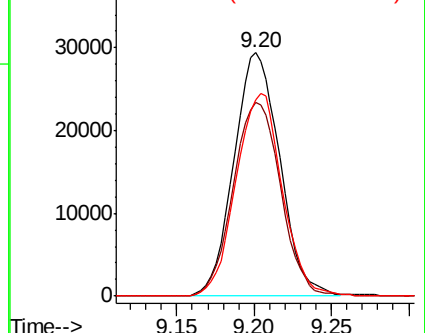
174 83.8 0.0 169.2

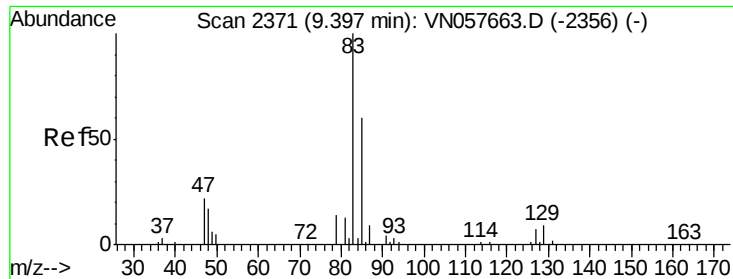


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 19.508 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

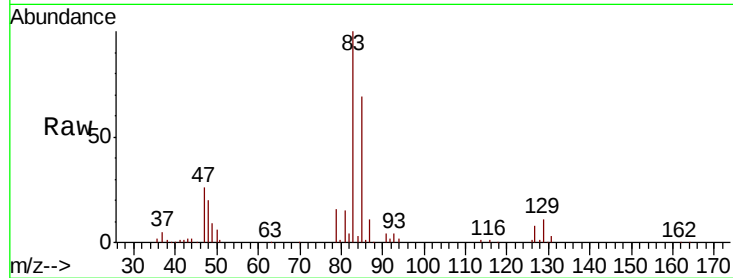
Tgt Ion: 83 Resp: 125217

Ion Ratio Lower Upper

83 100

85 68.7 48.2 72.4

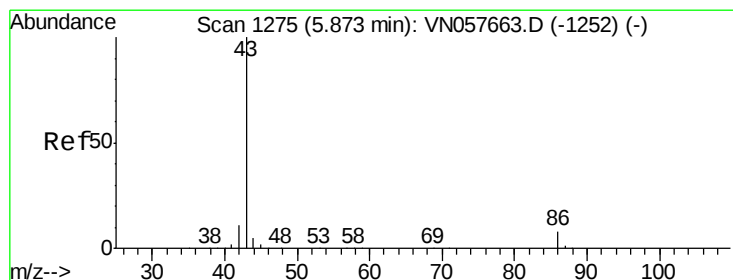
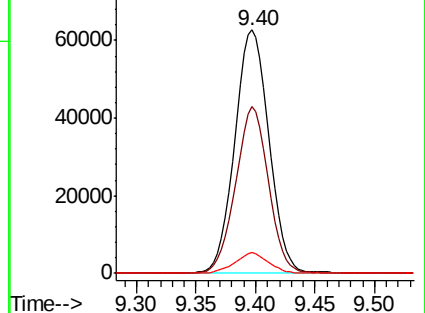
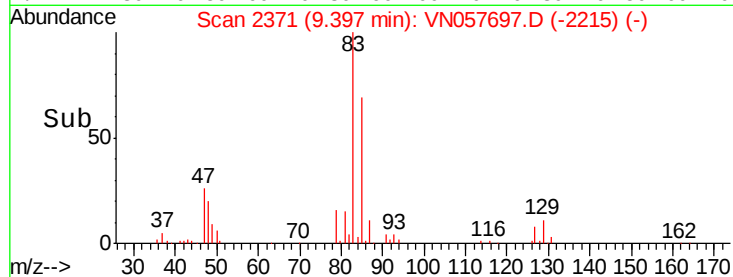
127 8.4 5.3 7.9#



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 106.929 ug/l

RT: 5.88 min Scan# 1276

Delta R.T. 0.00 min

Lab File: VN057697.D

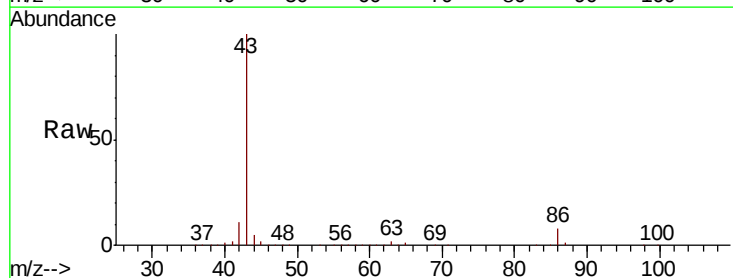
Acq: 5 Sep 2019 11:47

Tgt Ion: 43 Resp: 1294869

Ion Ratio Lower Upper

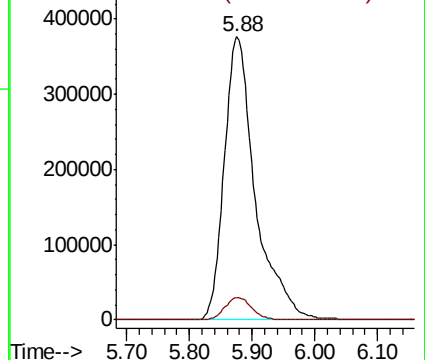
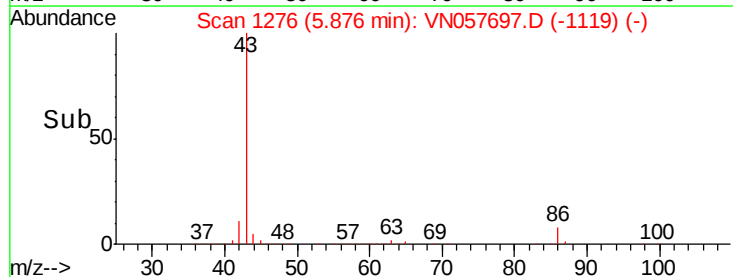
43 100

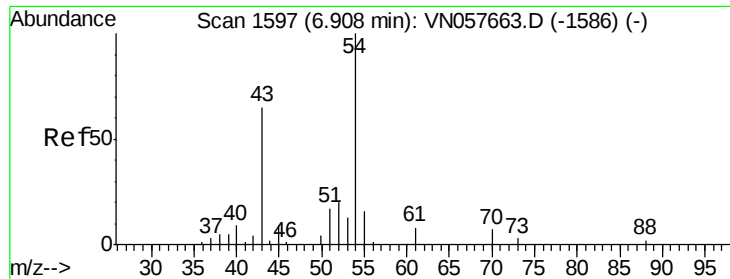
86 6.8 5.4 8.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 19.369 ug/l

RT: 6.91 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampled :

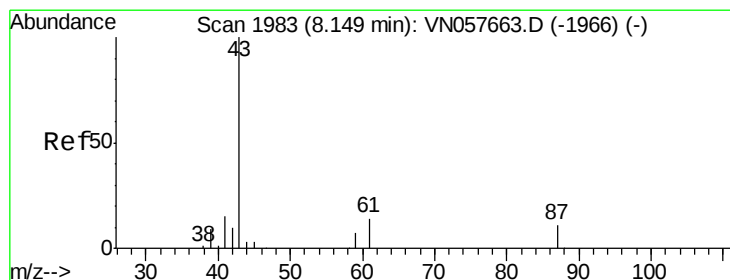
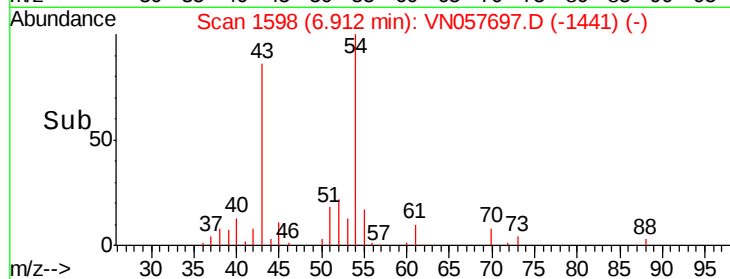
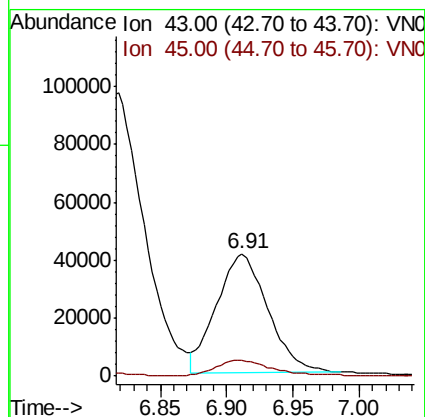
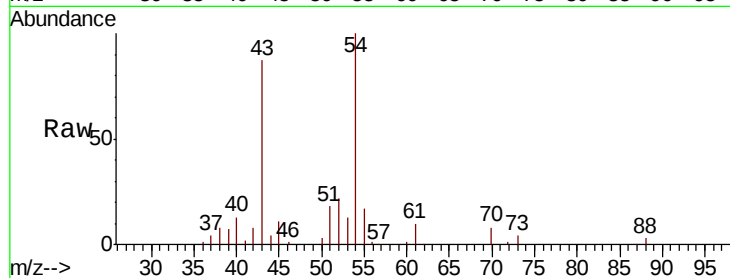
VN0905WBS01

Tgt Ion: 43 Resp: 109889

Ion Ratio Lower Upper

43 100

45 13.8 5.0 7.6#



#44

Isopropyl Acetate

Concen: 19.855 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN057697.D

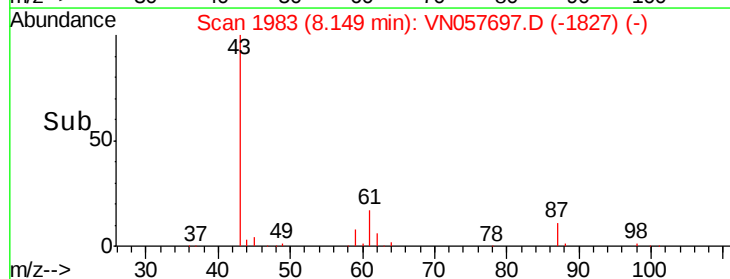
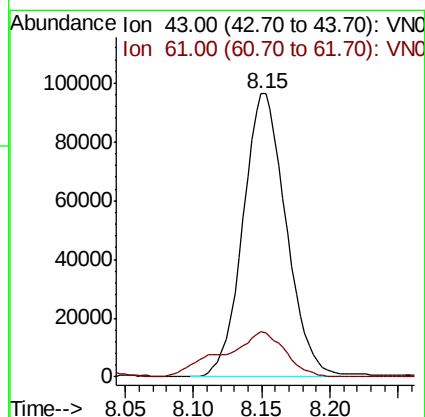
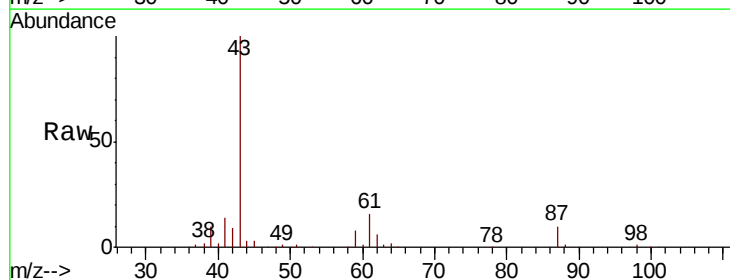
Acq: 5 Sep 2019 11:47

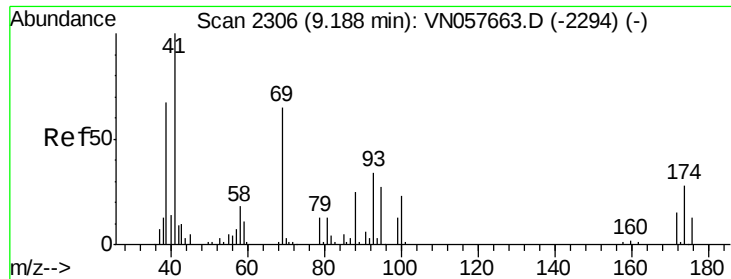
Tgt Ion: 43 Resp: 210595

Ion Ratio Lower Upper

43 100

61 16.1 12.6 18.8

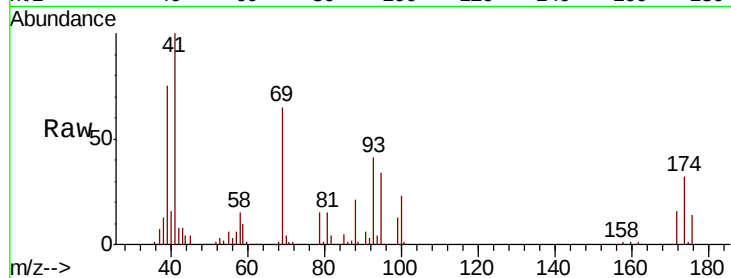




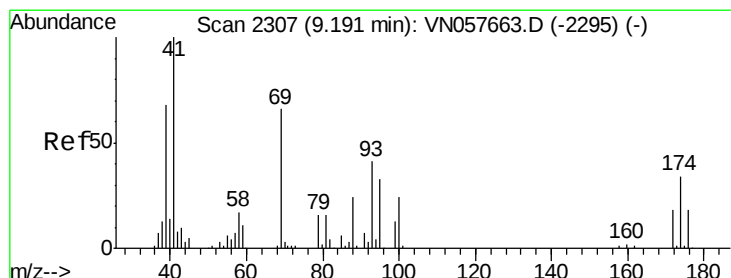
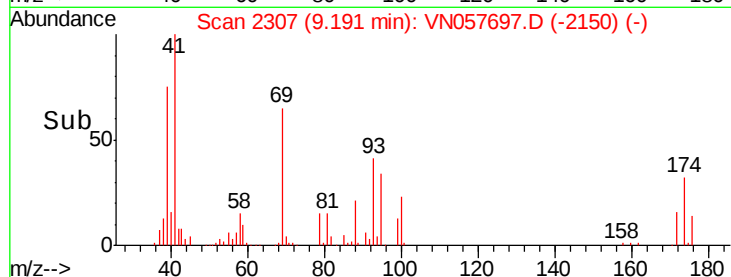
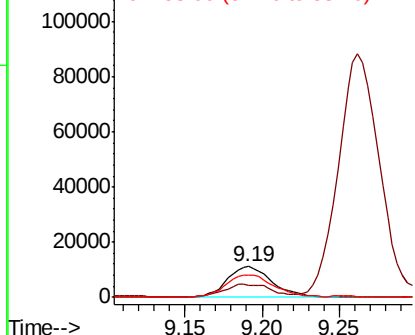
#45  
1,4-Dioxane  
Concen: 329.998 ug/l  
RT: 9.19 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

Tgt Ion: 88 Resp: 22469  
Ion Ratio Lower Upper  
88 100  
43 29.7 31.0 46.4#  
58 77.9 58.2 87.2

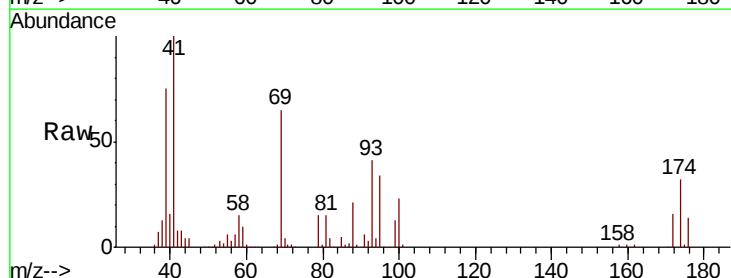


Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0

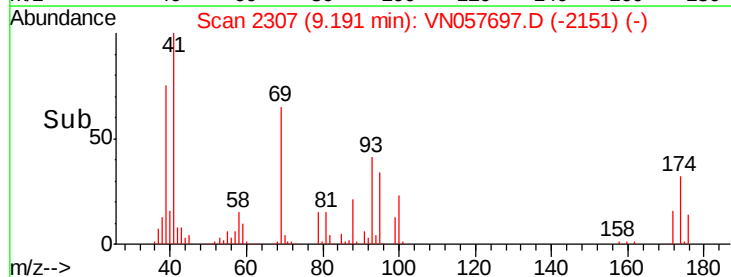
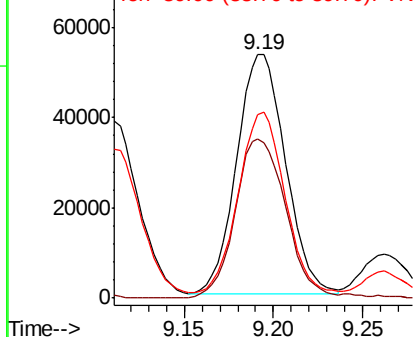


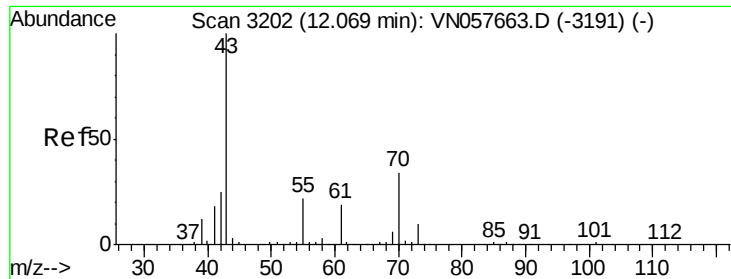
#46  
Methyl methacrylate  
Concen: 19.733 ug/l  
RT: 9.19 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 41 Resp: 101558  
Ion Ratio Lower Upper  
41 100  
69 66.4 33.1 99.2  
39 74.4 34.0 102.0



Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

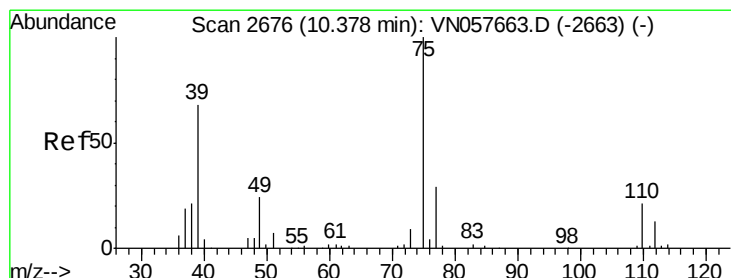
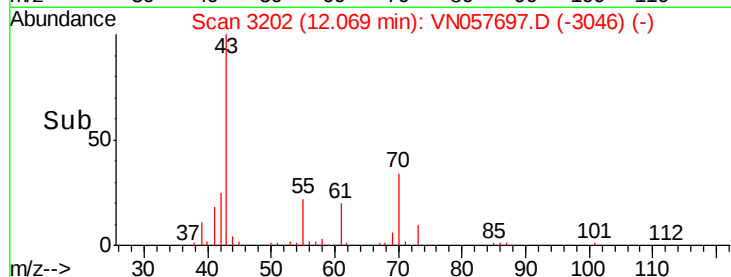
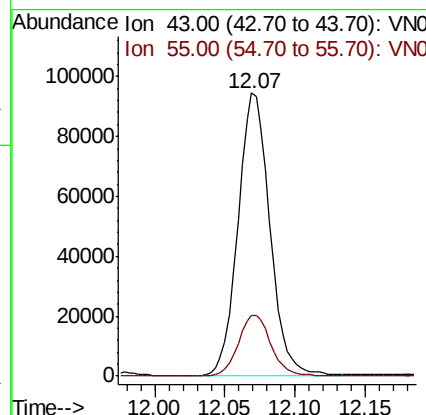
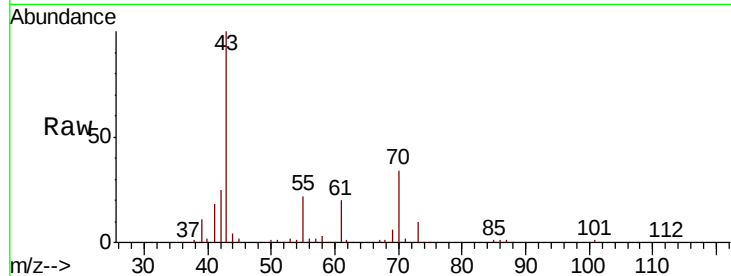




#47  
n-amyl Acetate  
Concen: 18.296 ug/l  
RT: 12.07 min Scan# 3202  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

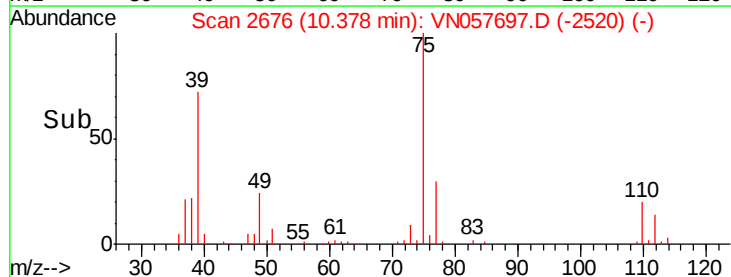
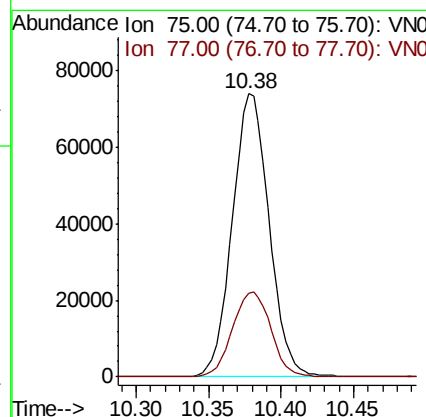
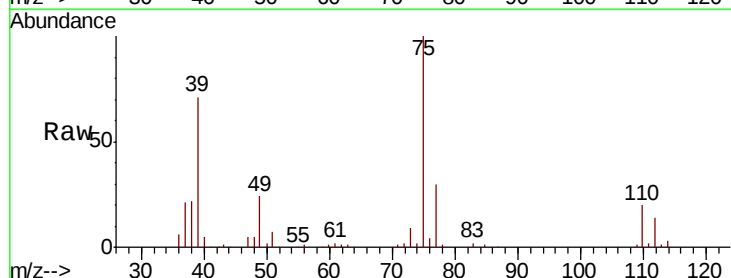
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0905WBS01

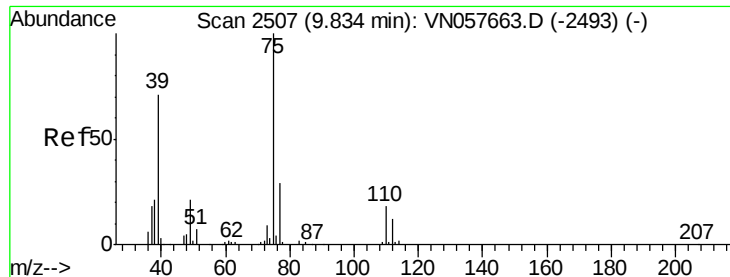
Tgt Ion: 43 Resp: 150502  
Ion Ratio Lower Upper  
43 100  
55 22.1 17.5 26.3



#48  
t-1,3-Dichloropropene  
Concen: 19.379 ug/l  
RT: 10.38 min Scan# 2676  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 75 Resp: 130478  
Ion Ratio Lower Upper  
75 100  
77 29.6 23.1 34.7



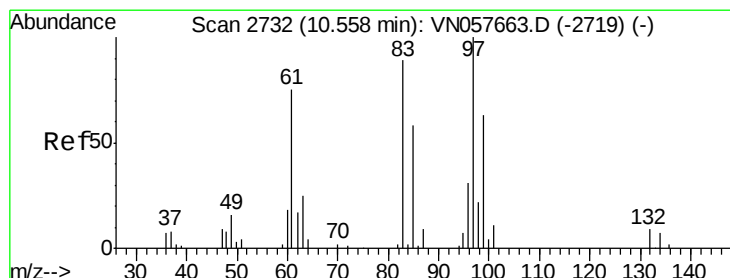
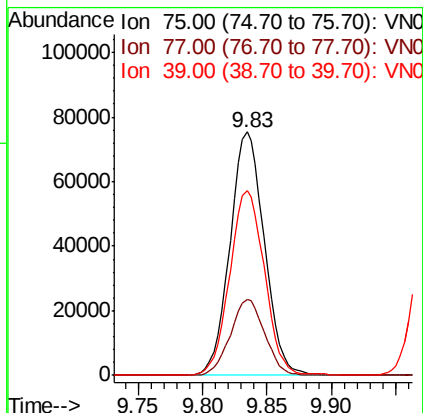
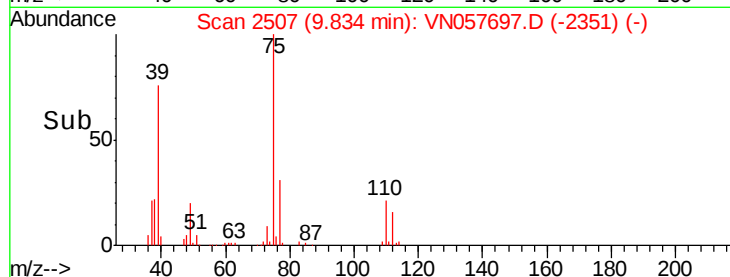
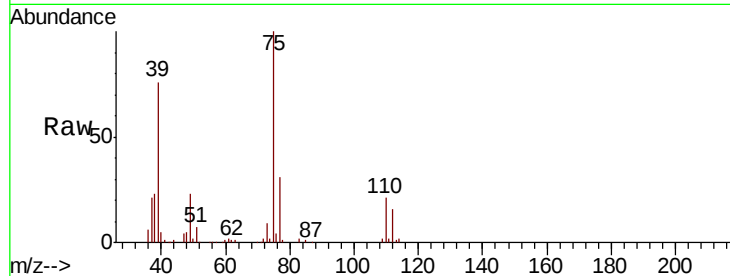


#49

cis-1,3-Dichloropropene  
Concen: 19.436 ug/l  
RT: 9.83 min Scan# 2507  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

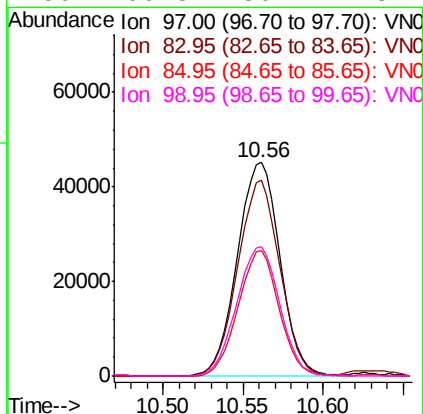
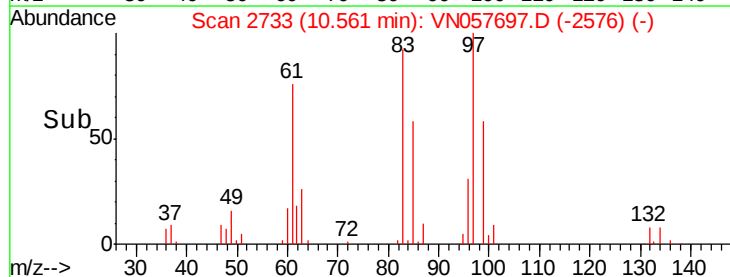
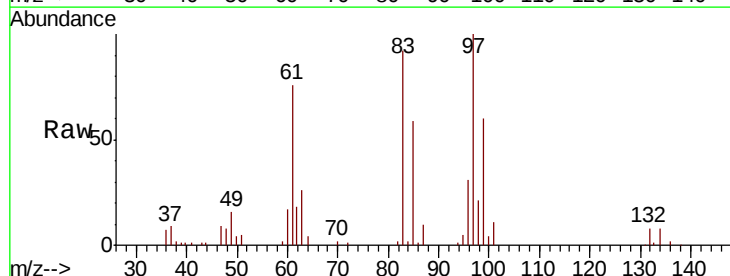
Tgt Ion: 75 Resp: 139617  
Ion Ratio Lower Upper  
75 100  
77 31.0 23.4 35.2  
39 75.8 56.6 85.0

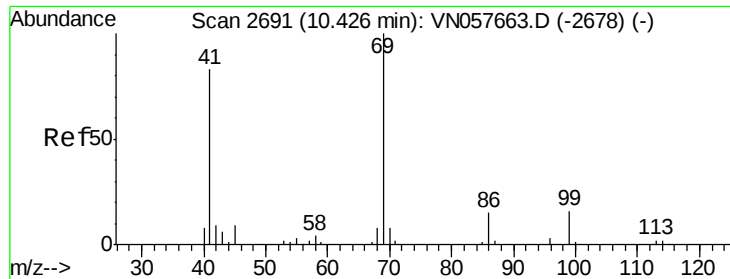


#50

1,1,2-Trichloroethane  
Concen: 20.533 ug/l  
RT: 10.56 min Scan# 2733  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 97 Resp: 82239  
Ion Ratio Lower Upper  
97 100  
83 91.6 71.4 107.2  
85 58.9 46.0 69.0  
99 60.3 50.2 75.2

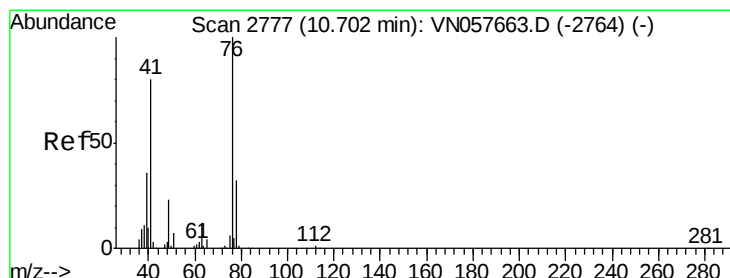
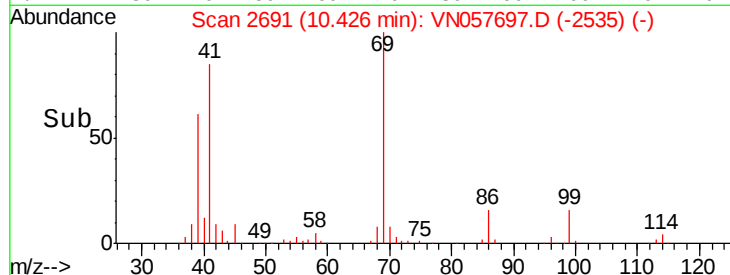
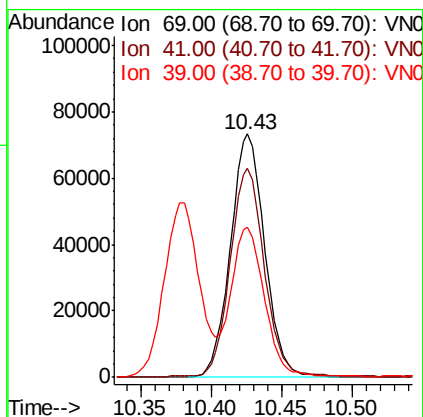
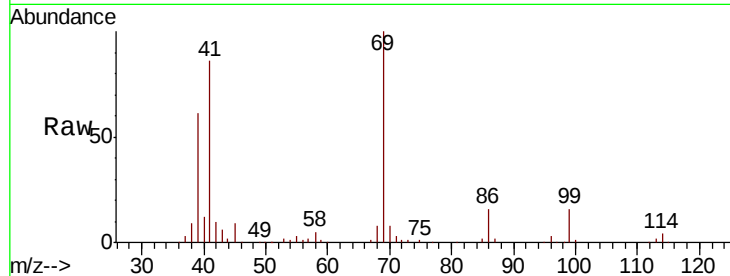




#51  
Ethyl methacrylate  
Concen: 19.075 ug/l  
RT: 10.43 min Scan# 2691  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

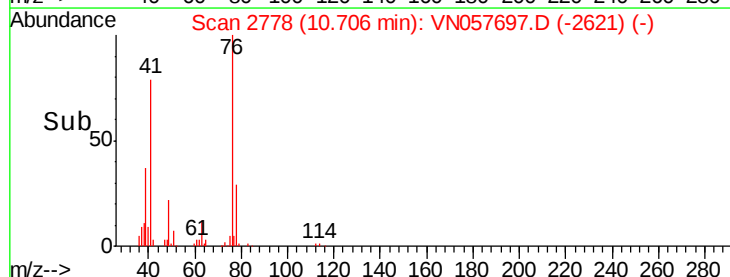
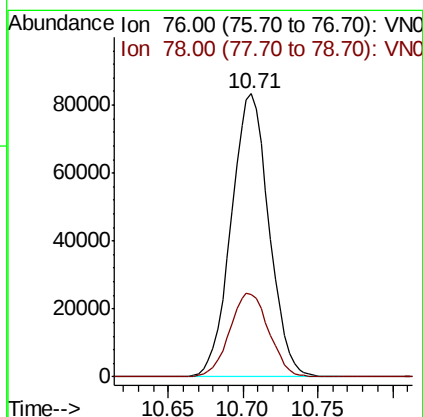
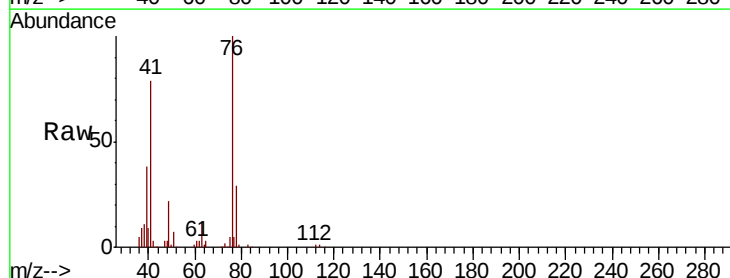
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

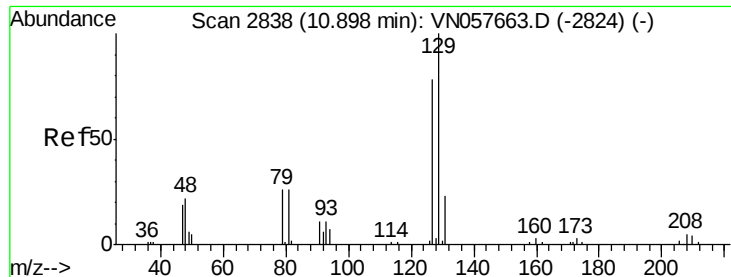
Tgt Ion: 69 Resp: 124546  
Ion Ratio Lower Upper  
69 100  
41 85.3 41.5 124.5  
39 61.0 29.6 88.9



#52  
1,3-Dichloropropane  
Concen: 20.530 ug/l  
RT: 10.71 min Scan# 2778  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 76 Resp: 146357  
Ion Ratio Lower Upper  
76 100  
78 30.7 0.0 63.8





#53

Dibromochloromethane

Concen: 19.362 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

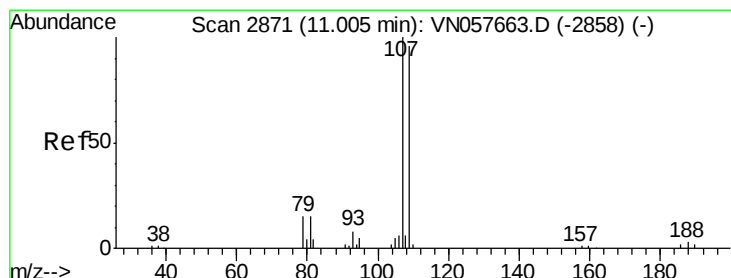
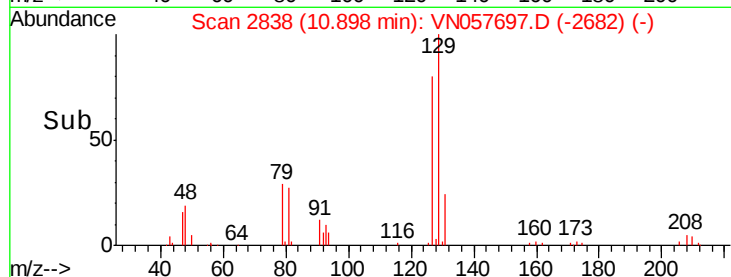
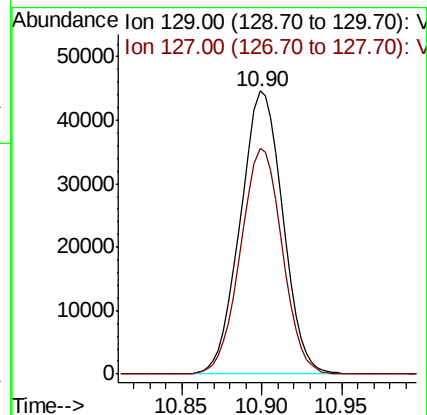
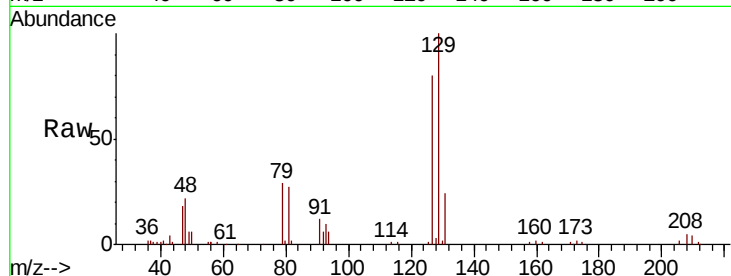
VN0905WBS01

Tgt Ion:129 Resp: 80936

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.3



#54

1,2-Dibromoethane

Concen: 20.221 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057697.D

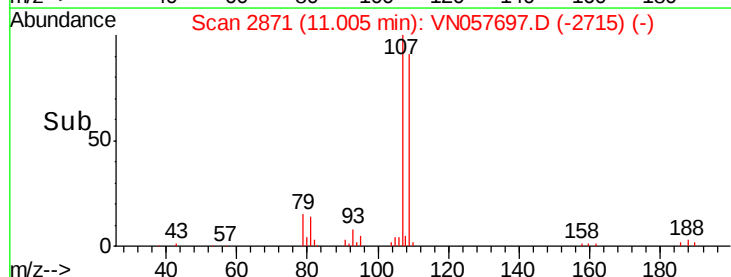
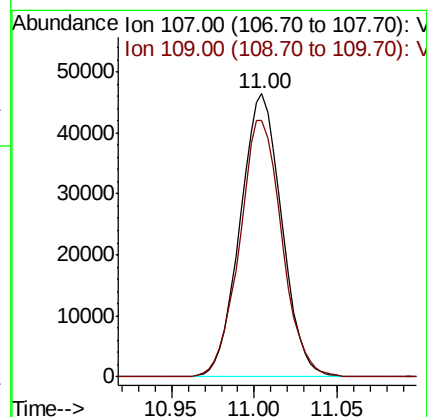
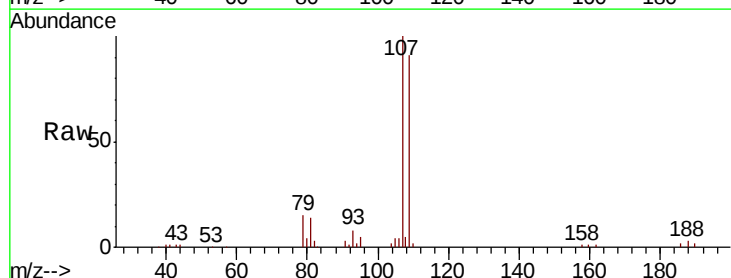
Acq: 5 Sep 2019 11:47

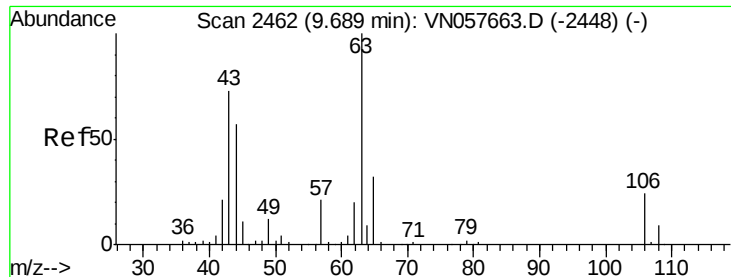
Tgt Ion:107 Resp: 80962

Ion Ratio Lower Upper

107 100

109 92.4 76.2 114.4

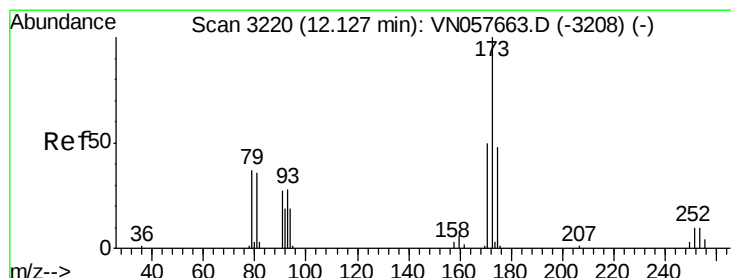
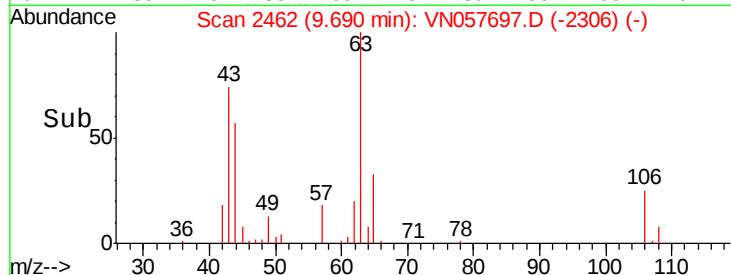
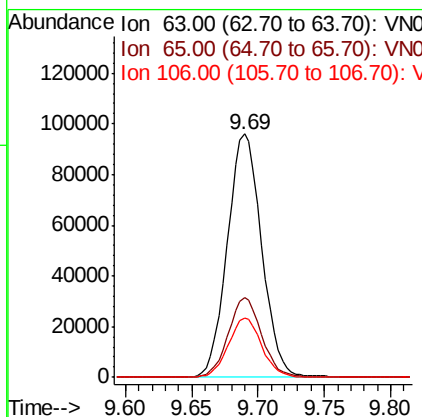
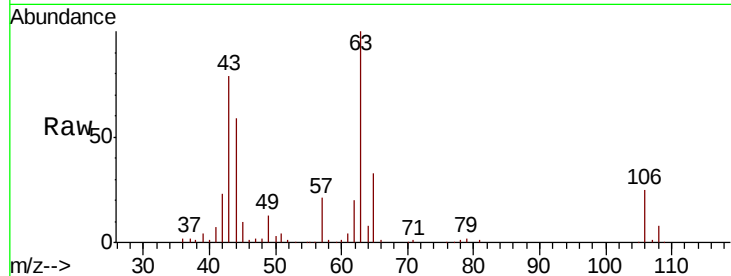




#55  
 2-Chloroethyl vinyl ether  
 Concen: 83.705 ug/l  
 RT: 9.69 min Scan# 2462  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

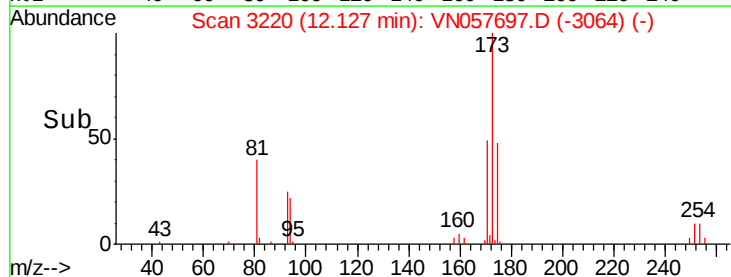
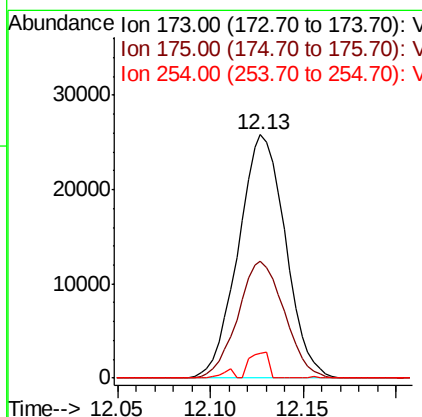
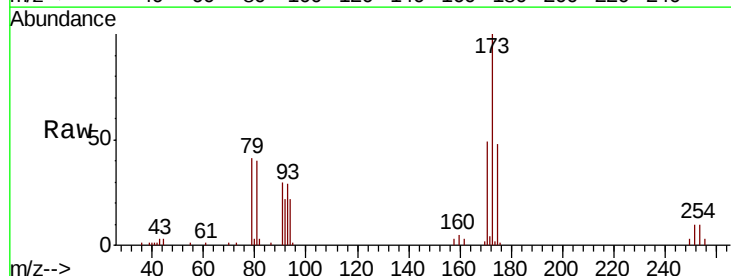
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

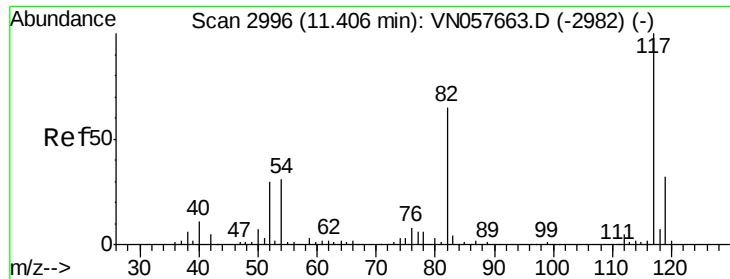
Tgt Ion: 63 Resp: 172680  
 Ion Ratio Lower Upper  
 63 100  
 65 31.9 25.6 38.4  
 106 23.6 19.5 29.3



#56  
 Bromoform  
 Concen: 17.666 ug/l  
 RT: 12.13 min Scan# 3220  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 173 Resp: 45795  
 Ion Ratio Lower Upper  
 173 100  
 175 47.1 38.8 58.2  
 254 4.2 7.2 10.8#

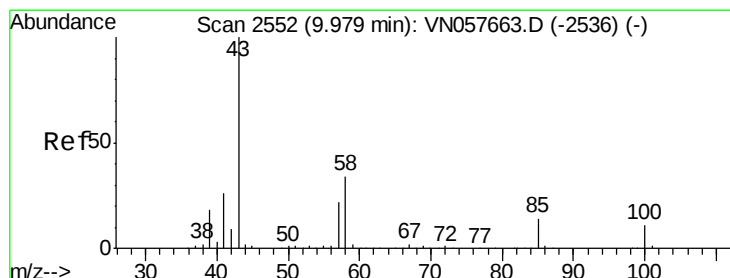
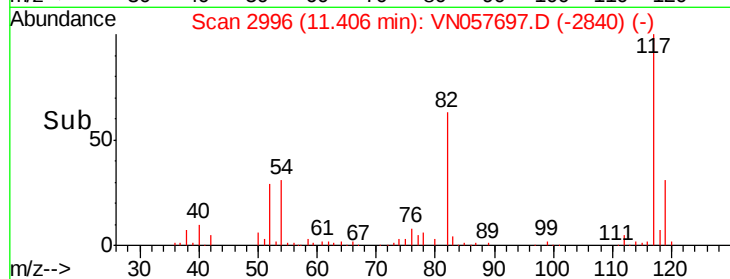
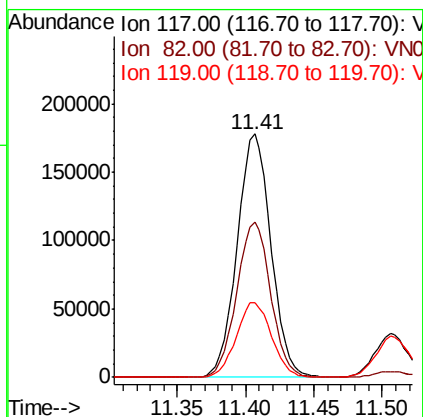
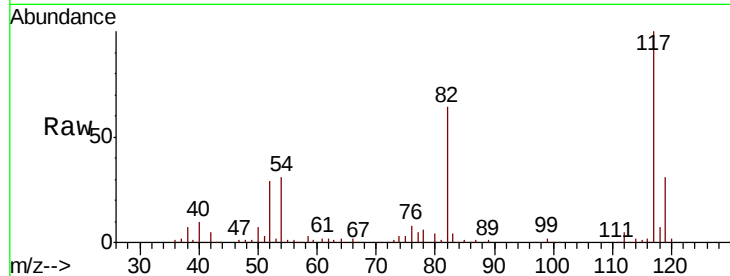




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

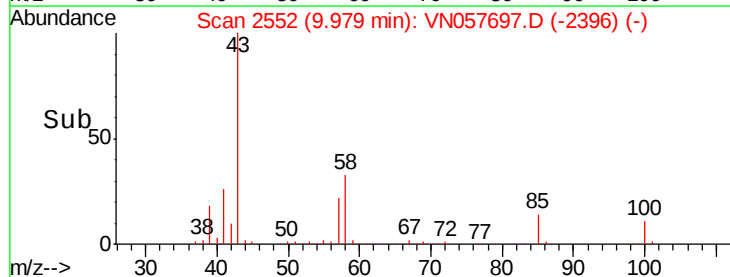
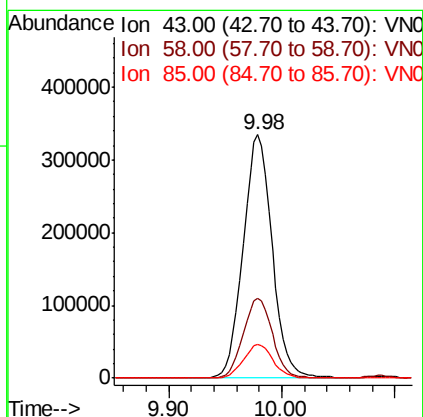
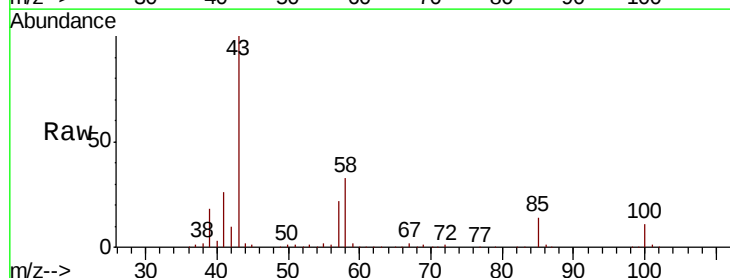
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

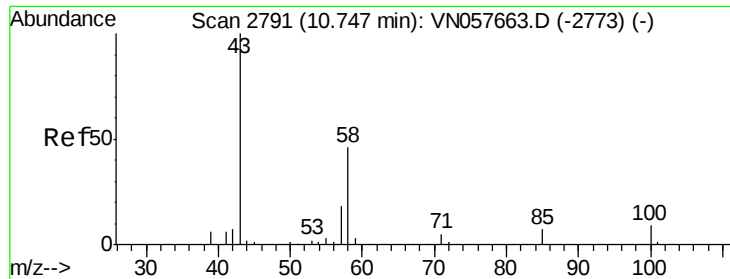
Tgt Ion: 117 Resp: 306520  
Ion Ratio Lower Upper  
117 100  
82 64.0 51.2 76.8  
119 31.9 25.8 38.6



#58  
4-Methyl-2-Pentanone  
Concen: 110.199 ug/l  
RT: 9.98 min Scan# 2552  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 43 Resp: 596947  
Ion Ratio Lower Upper  
43 100  
58 33.1 26.7 40.1  
85 14.2 11.2 16.8

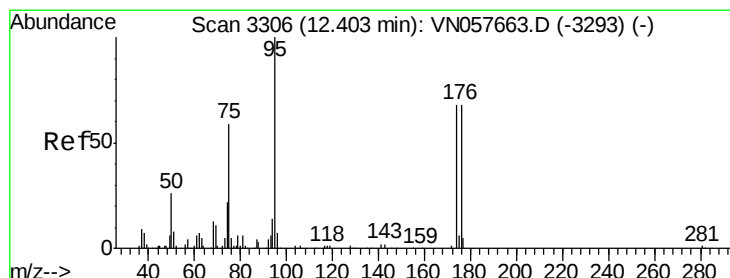
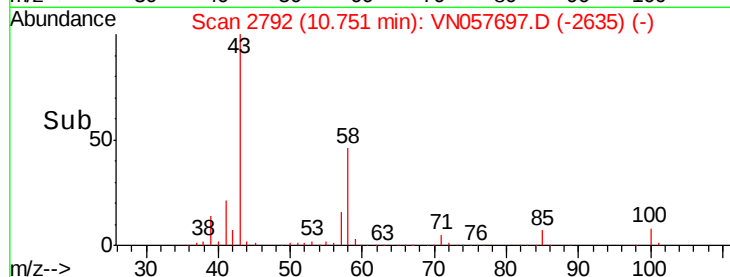
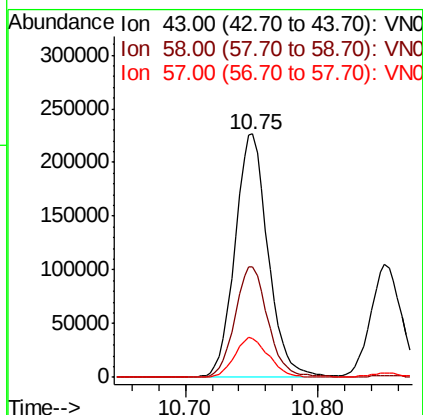
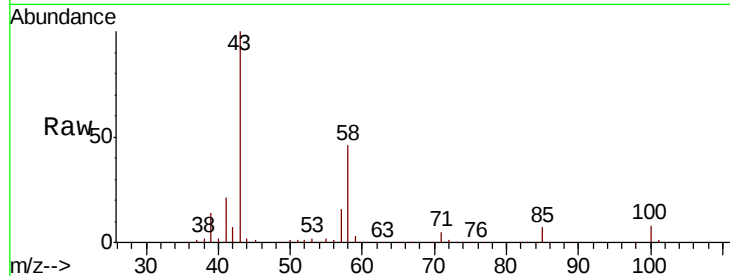




#59  
2-Hexanone  
Concen: 102.064 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

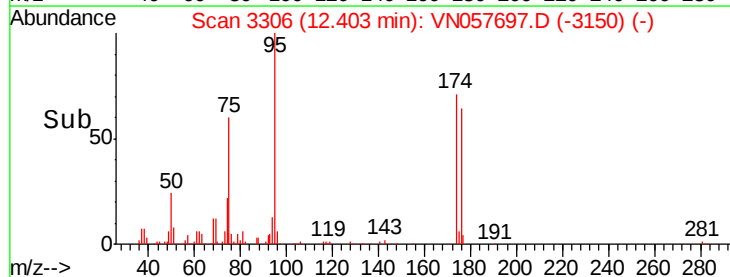
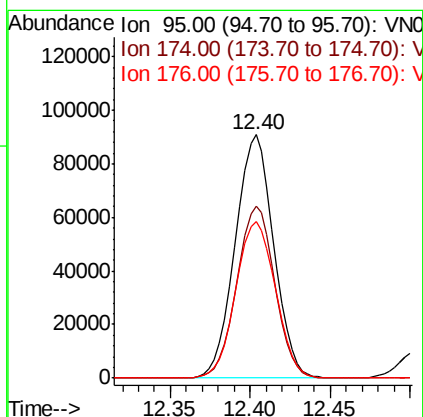
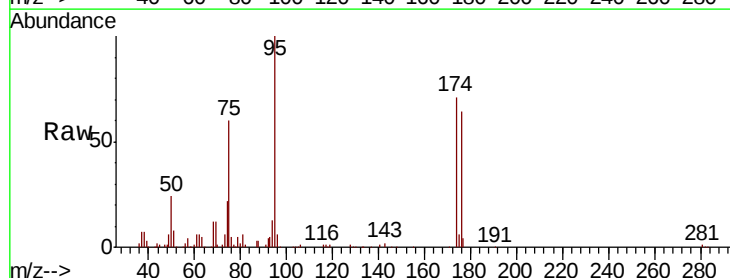
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

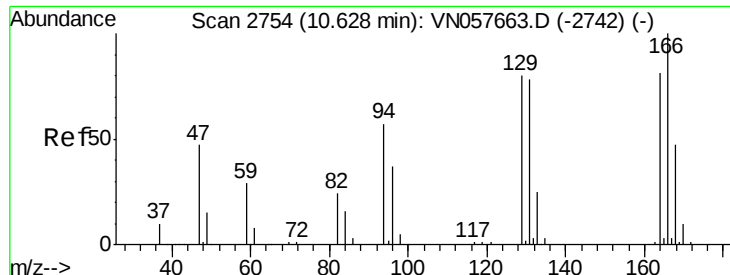
Tgt Ion: 43 Resp: 391241  
Ion Ratio Lower Upper  
43 100  
58 45.6 36.1 54.1  
57 16.8 14.1 21.1



#60  
4-Bromofluorobenzene  
Concen: 28.439 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 95 Resp: 148924  
Ion Ratio Lower Upper  
95 100  
174 69.8 55.0 82.6  
176 66.5 53.7 80.5





#61

Tetrachloroethene

Concen: 21.188 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

Tgt Ion:164 Resp: 74575

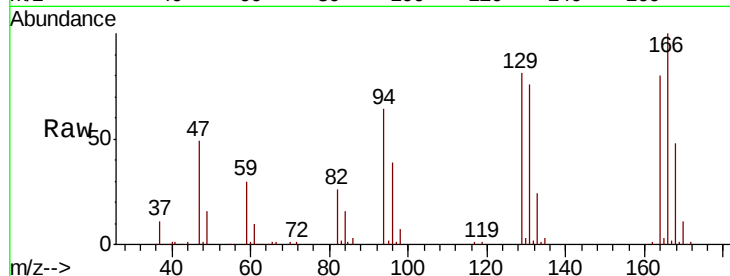
Ion Ratio Lower Upper

164 100

166 125.4 99.4 149.2

129 101.0 78.8 118.2

131 95.7 78.2 117.2

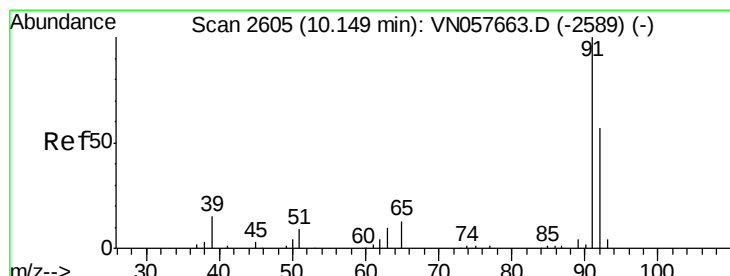
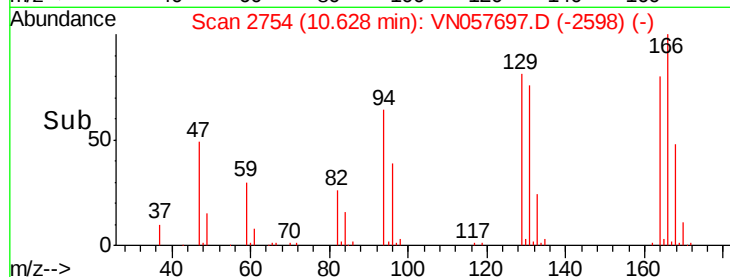
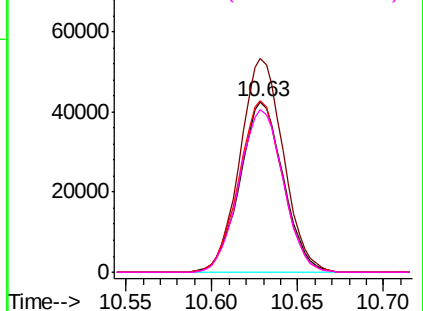


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 21.258 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057697.D

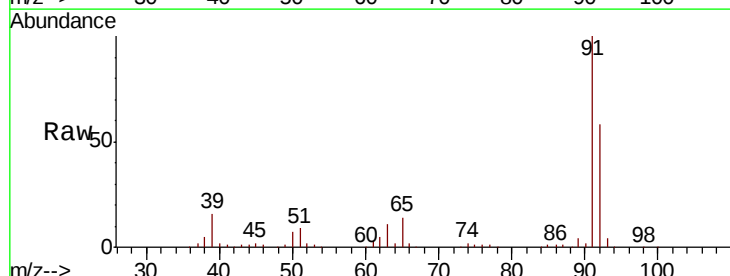
Acq: 5 Sep 2019 11:47

Tgt Ion: 91 Resp: 365852

Ion Ratio Lower Upper

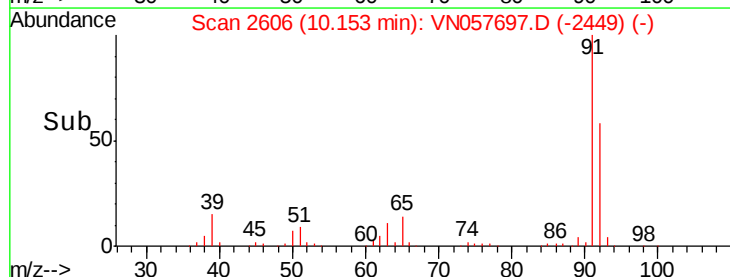
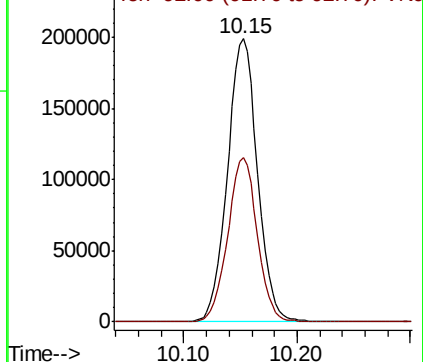
91 100

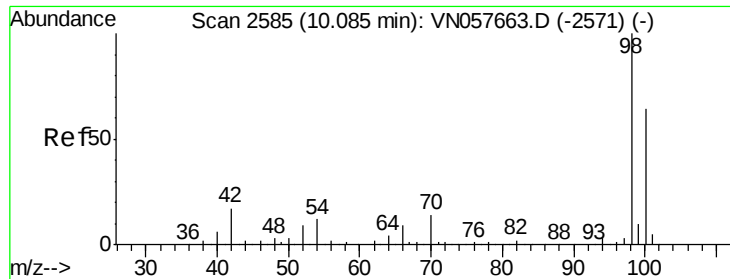
92 57.2 46.1 69.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 30.996 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampled :

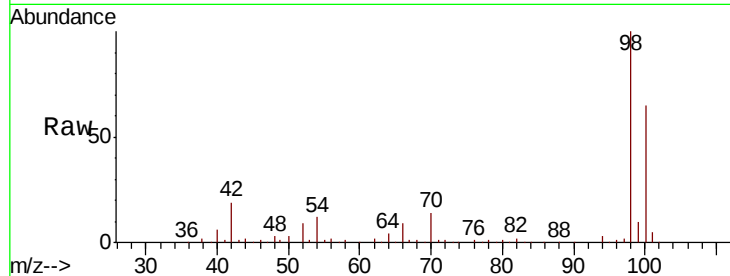
VN0905WBS01

Tgt Ion: 98 Resp: 457504

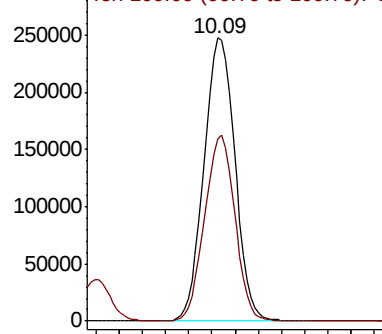
Ion Ratio Lower Upper

98 100

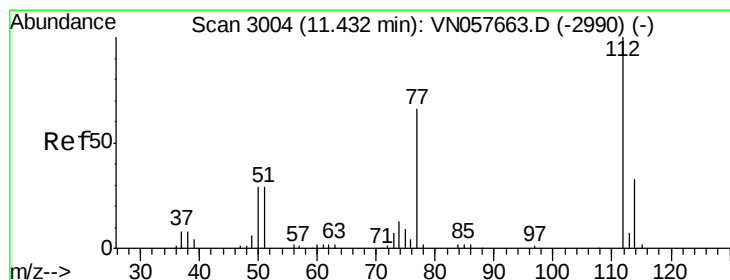
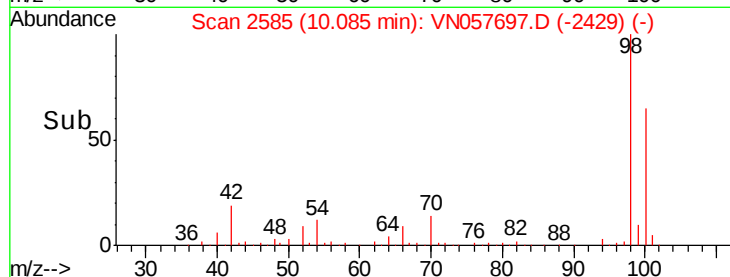
100 64.3 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN057663.D (-2571) (-)



Time-->



#64

Chlorobenzene

Concen: 20.685 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN057697.D

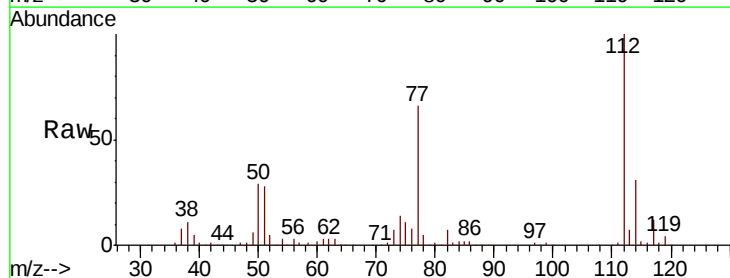
Acq: 5 Sep 2019 11:47

Tgt Ion: 112 Resp: 209032

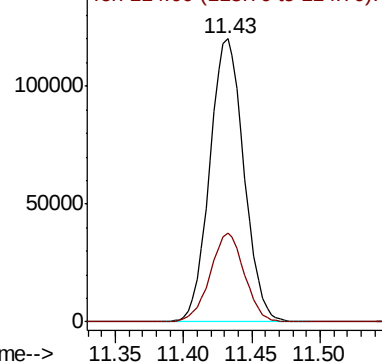
Ion Ratio Lower Upper

112 100

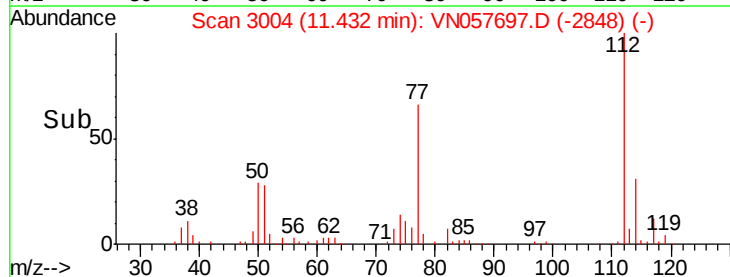
114 31.5 26.2 39.4

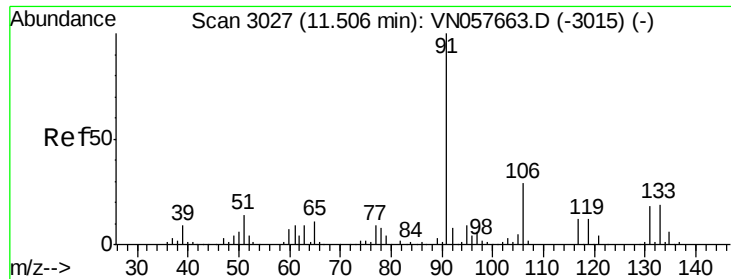


Abundance Ion 112.00 (111.70 to 112.70): VN057663.D (-2990) (-)



Time-->

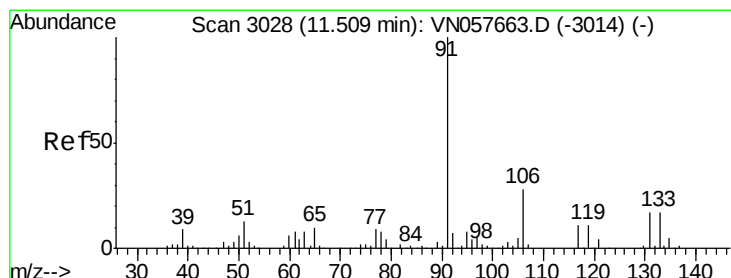
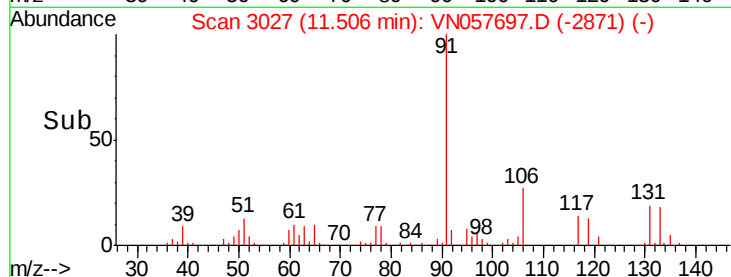
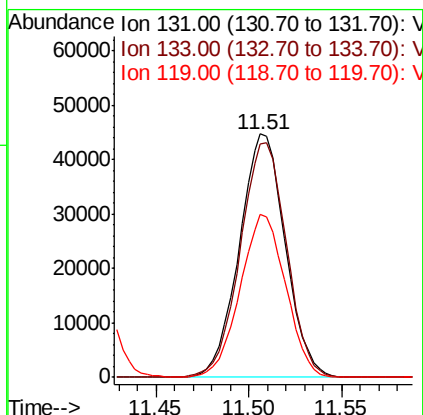
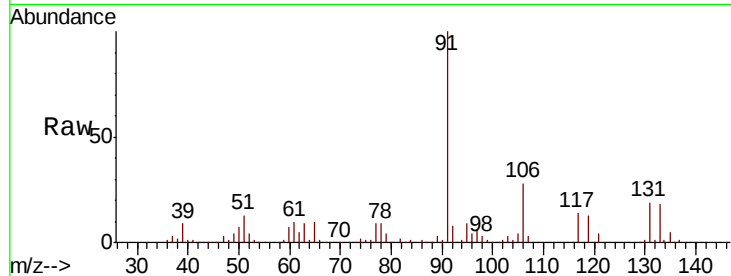




#65  
 1,1,1,2-Tetrachloroethane  
 Concen: 20.750 ug/l  
 RT: 11.51 min Scan# 3027  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

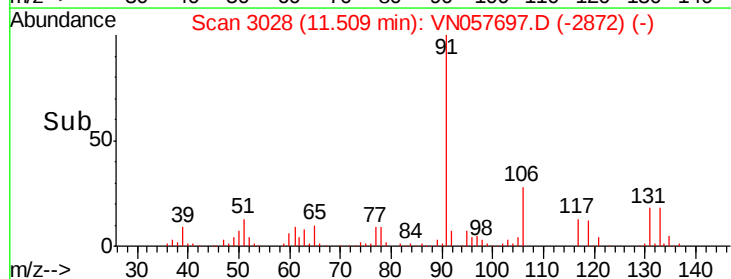
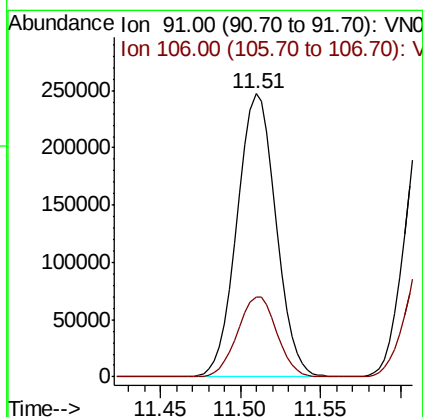
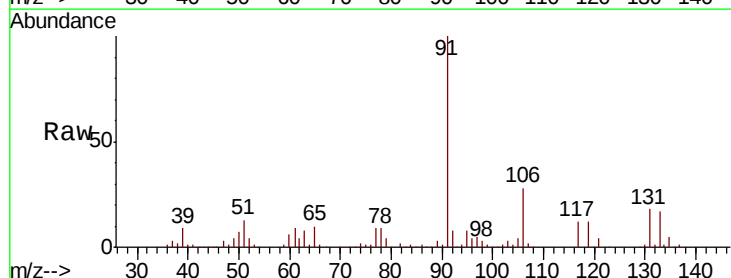
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

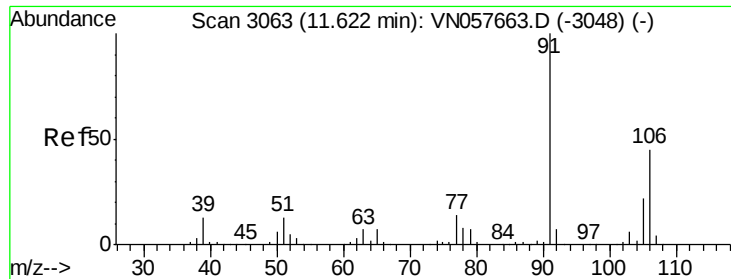
Tgt Ion: 131 Resp: 76818  
 Ion Ratio Lower Upper  
 131 100  
 133 97.1 0.0 198.0  
 119 66.3 0.0 129.8



#66  
 Ethyl Benzene  
 Concen: 21.305 ug/l  
 RT: 11.51 min Scan# 3028  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 91 Resp: 409853  
 Ion Ratio Lower Upper  
 91 100  
 106 28.4 22.7 34.1

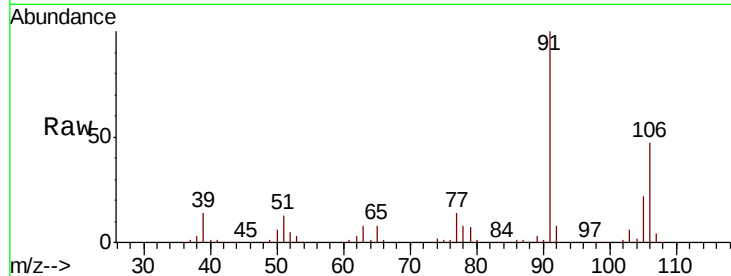




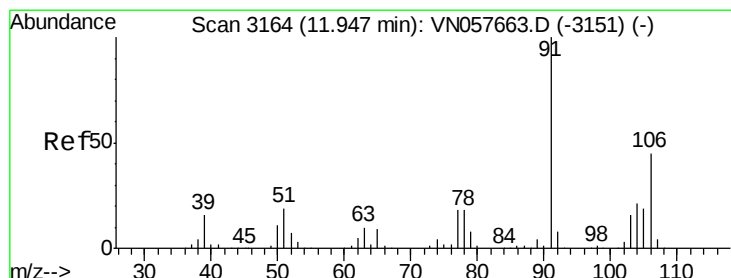
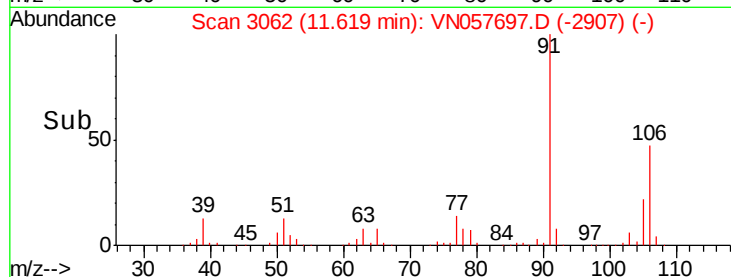
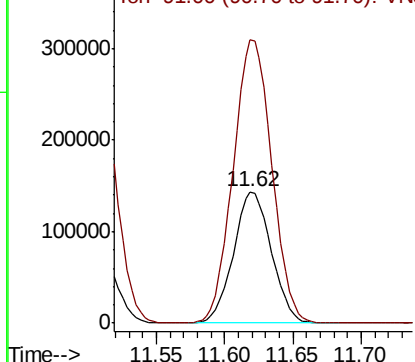
#67  
m/p-Xylenes  
Concen: 41.026 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

Tgt Ion:106 Resp: 276796  
Ion Ratio Lower Upper  
106 100  
91 219.5 178.9 268.3

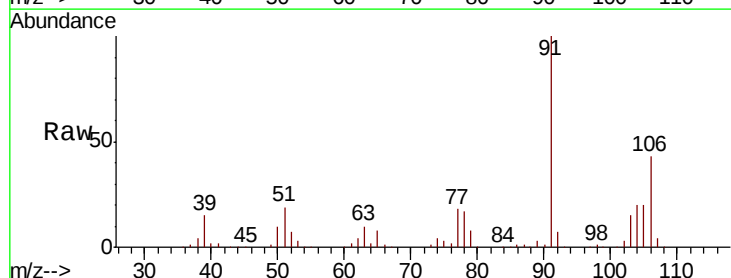


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

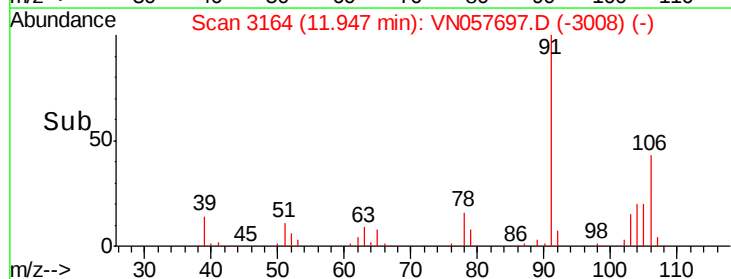
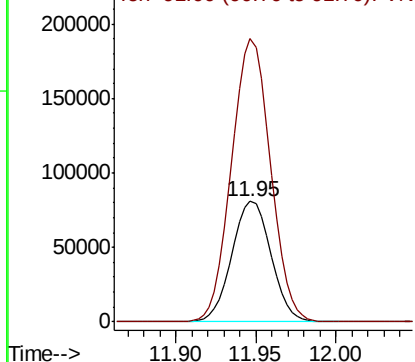


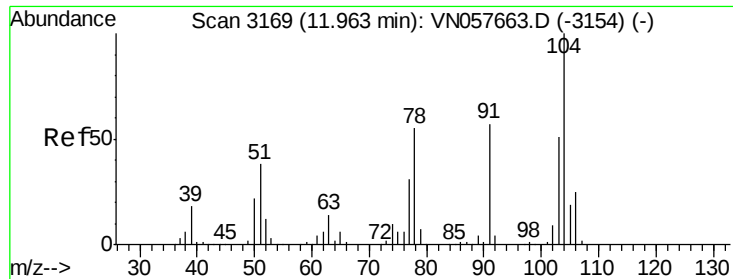
#68  
o-Xylene  
Concen: 20.201 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion:106 Resp: 135712  
Ion Ratio Lower Upper  
106 100  
91 232.6 114.0 342.0



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

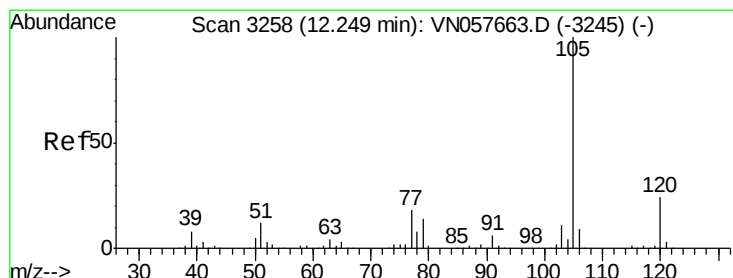
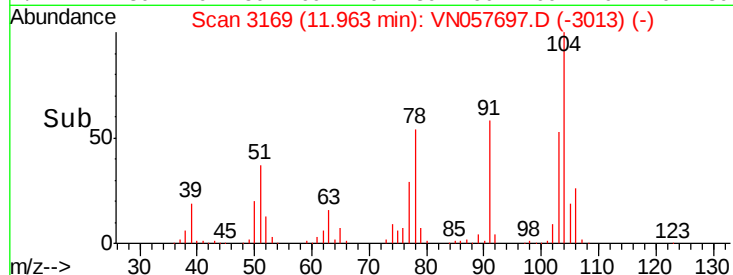
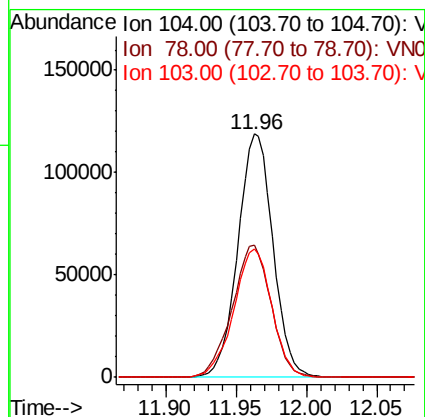
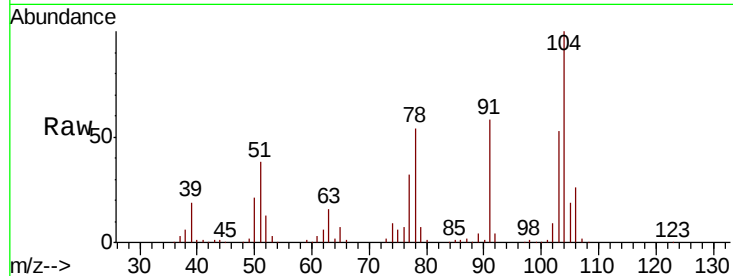




#69  
Styrene  
Concen: 19.282 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

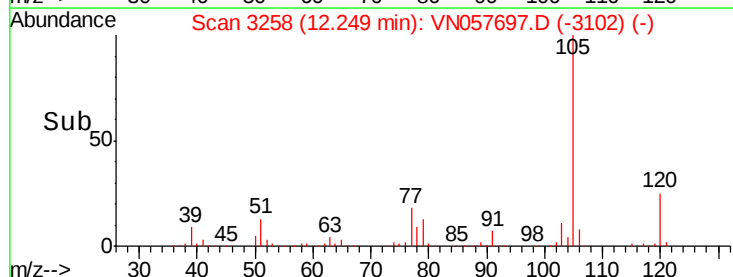
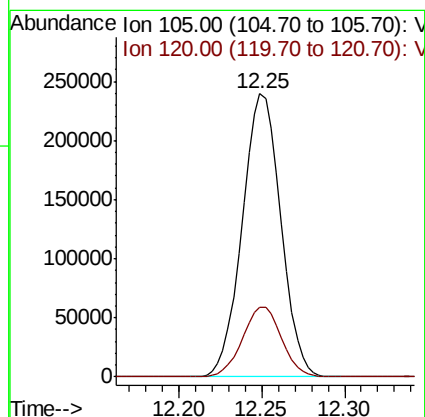
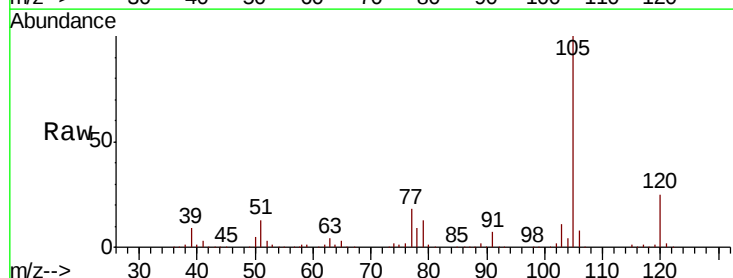
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

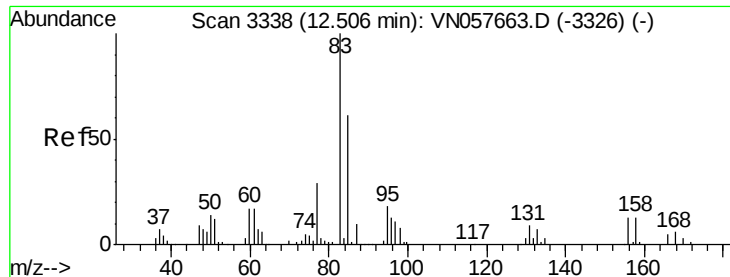
Tgt Ion:104 Resp: 207629  
Ion Ratio Lower Upper  
104 100  
78 59.9 49.0 73.6  
103 56.8 44.9 67.3



#70  
Isopropylbenzene  
Concen: 21.005 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion:105 Resp: 387052  
Ion Ratio Lower Upper  
105 100  
120 24.9 17.2 32.0

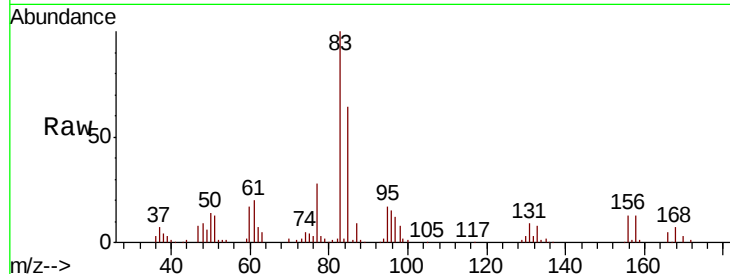




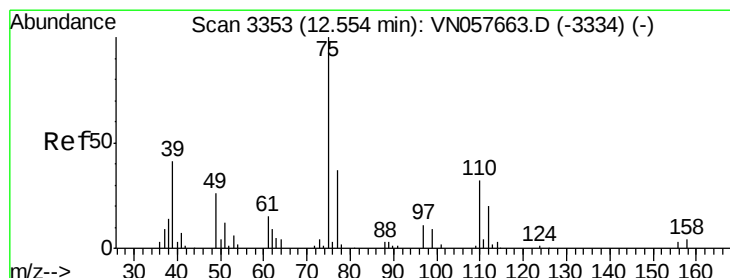
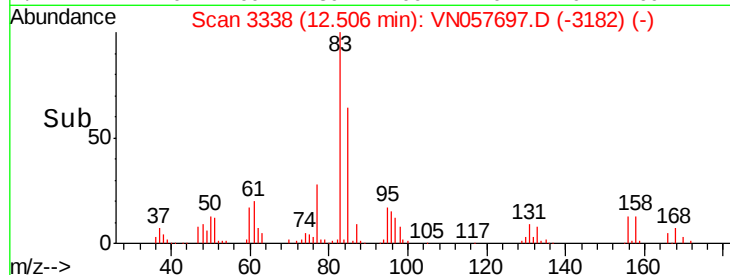
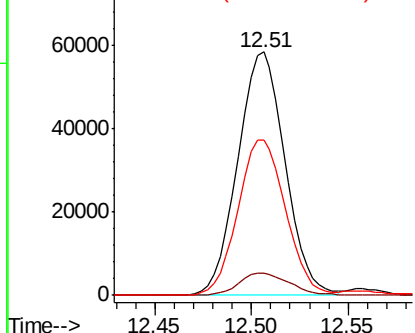
#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.464 ug/l  
 RT: 12.51 min Scan# 3338  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

Tgt Ion: 83 Resp: 99214  
 Ion Ratio Lower Upper  
 83 100  
 131 9.8 5.0 14.9  
 85 64.3 31.7 95.1

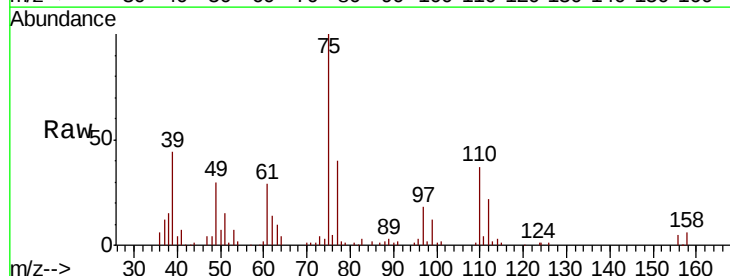


Abundance Ion 83.00 (82.70 to 83.70): VN0  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 85.00 (84.70 to 85.70): VN0

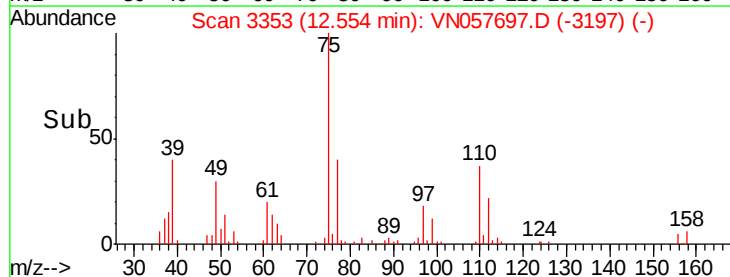
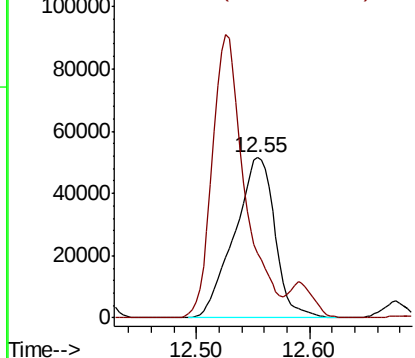


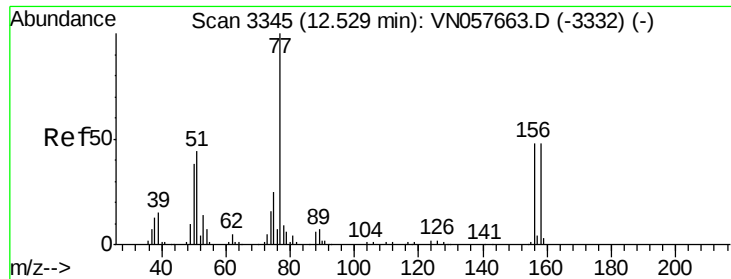
#72  
 1,2,3-Trichloropropane  
 Concen: 28.185 ug/l  
 RT: 12.55 min Scan# 3353  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 75 Resp: 128515  
 Ion Ratio Lower Upper  
 75 100  
 77 141.9 0.0 405.6



Abundance Ion 75.00 (74.70 to 75.70): VN0  
 Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 18.897 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

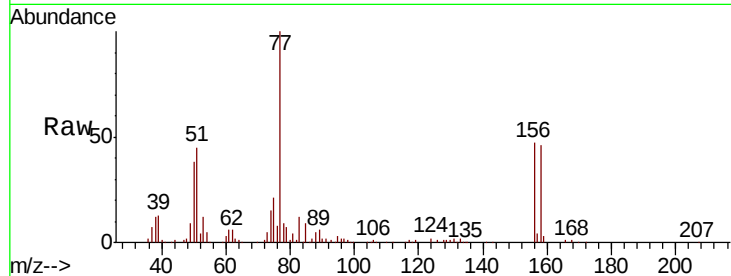
Tgt Ion:156 Resp: 73789

Ion Ratio Lower Upper

156 100

77 247.1 0.0 495.6

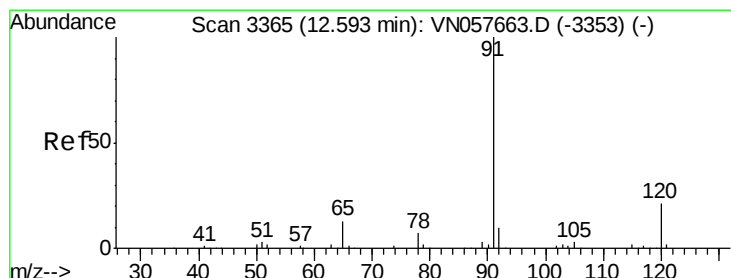
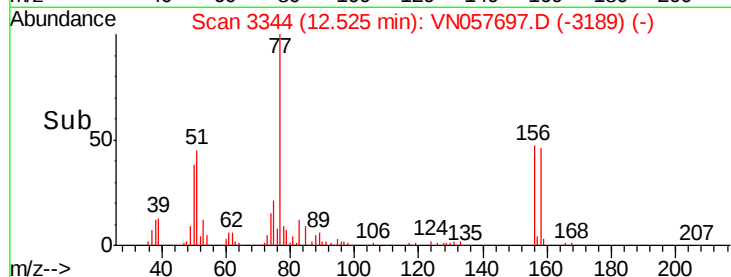
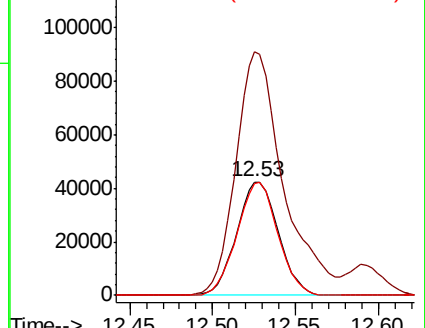
158 97.9 0.0 197.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.055 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN057697.D

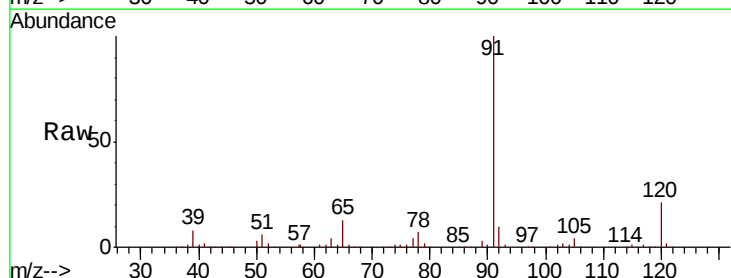
Acq: 5 Sep 2019 11:47

Tgt Ion: 91 Resp: 409089

Ion Ratio Lower Upper

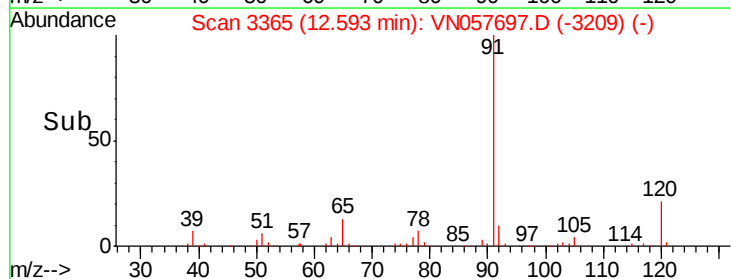
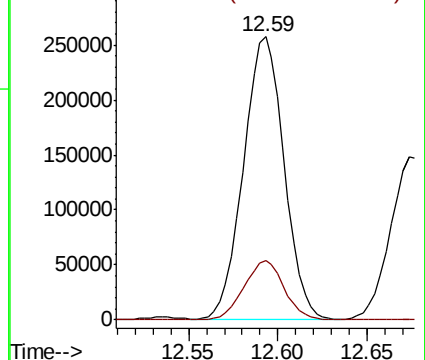
91 100

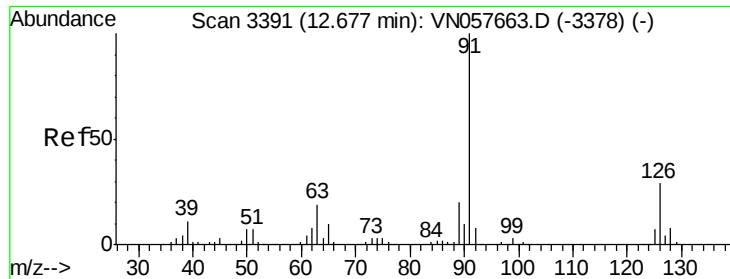
120 20.6 0.0 40.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.908 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampled :

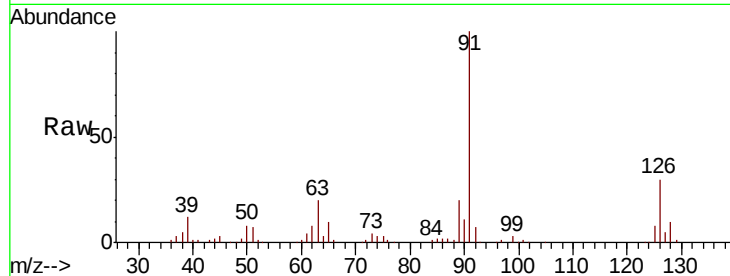
VN0905WBS01

Tgt Ion: 91 Resp: 254229

Ion Ratio Lower Upper

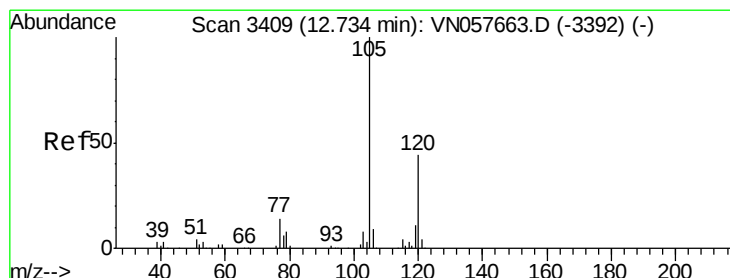
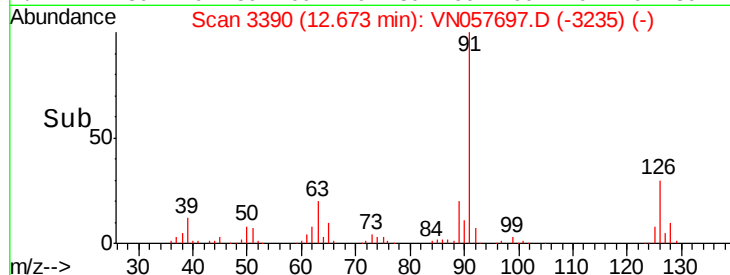
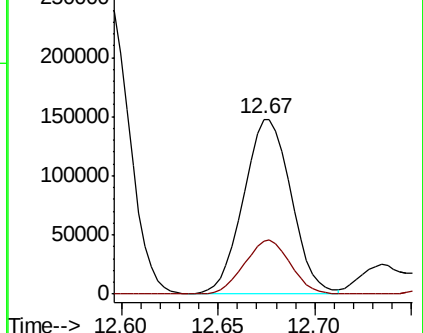
91 100

126 30.0 0.0 59.2



Abundance Ion 91.00 (90.70 to 91.70): VN057663.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN057663.D (-3378) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.762 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057697.D

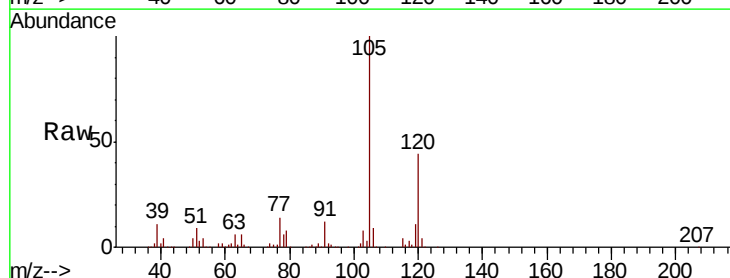
Acq: 5 Sep 2019 11:47

Tgt Ion: 105 Resp: 317604

Ion Ratio Lower Upper

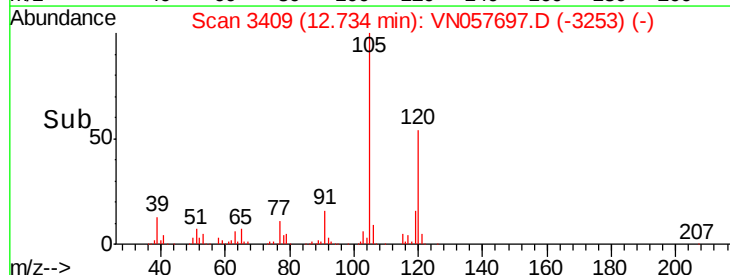
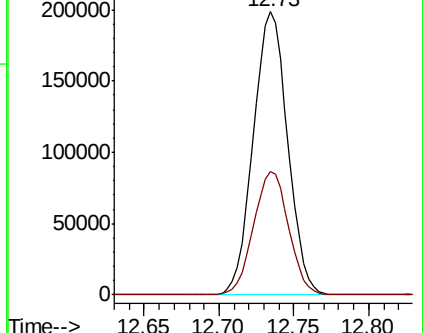
105 100

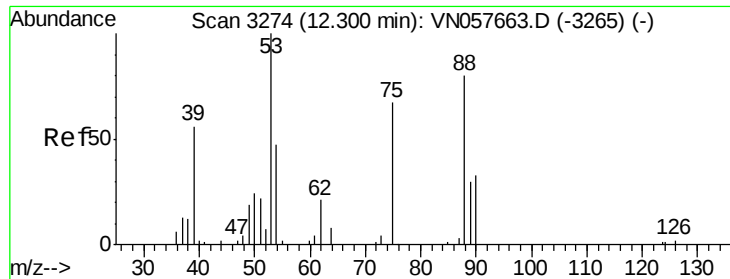
120 44.4 0.0 91.0



Abundance Ion 105.00 (104.70 to 105.70): VN057663.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN057663.D (-3392) (-)

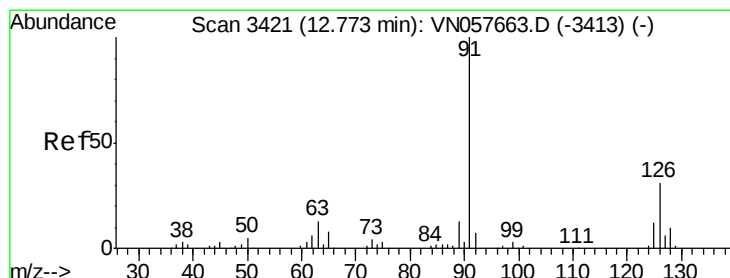
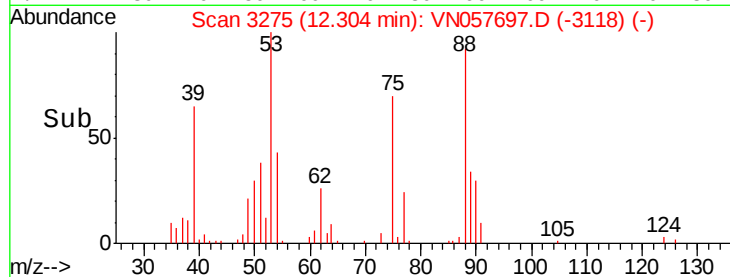
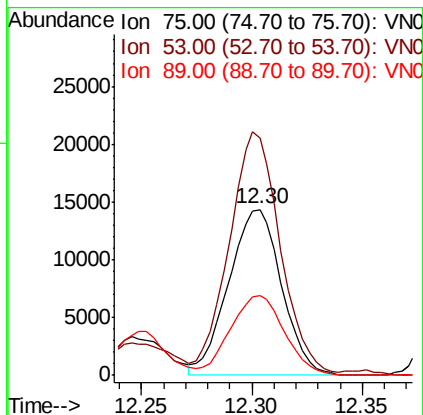
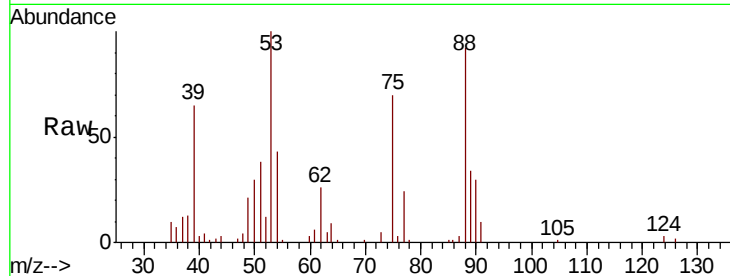




#77  
t-1,4-Dichloro-2-butene  
Concen: 17.217 ug/l  
RT: 12.30 min Scan# 3275  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

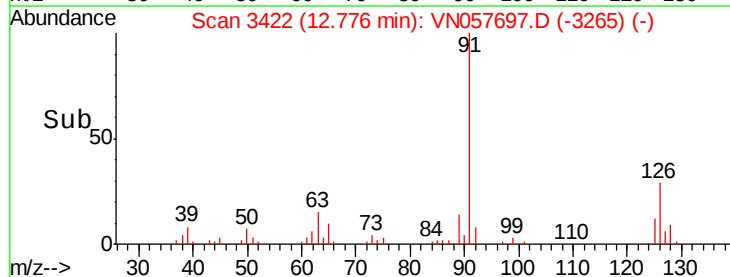
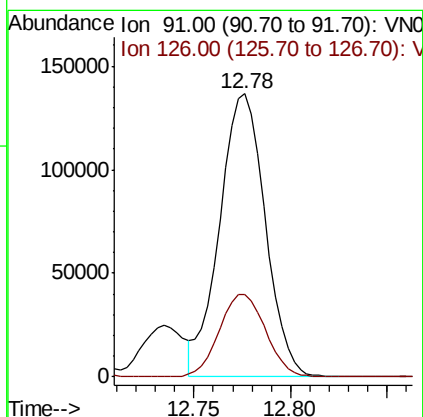
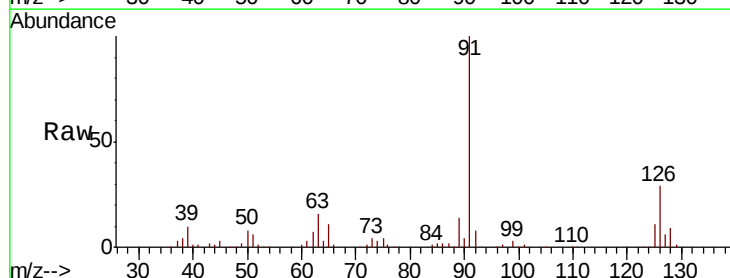
Instrument :  
MSVOA\_N  
ClientSampled :  
VN0905WBS01

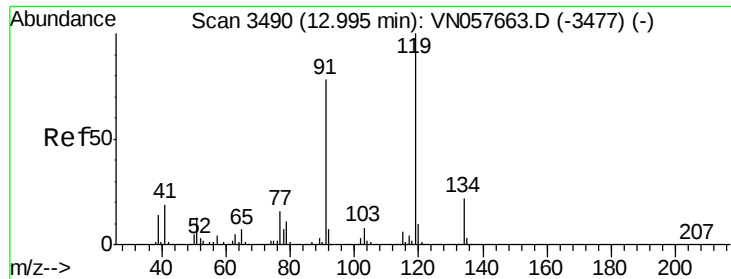
Tgt Ion: 75 Resp: 23964  
Ion Ratio Lower Upper  
75 100  
53 140.7 74.2 222.6  
89 48.1 23.3 69.9



#78  
4-Chlorotoluene  
Concen: 18.425 ug/l  
RT: 12.78 min Scan# 3422  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion: 91 Resp: 223554  
Ion Ratio Lower Upper  
91 100  
126 29.9 0.0 57.8

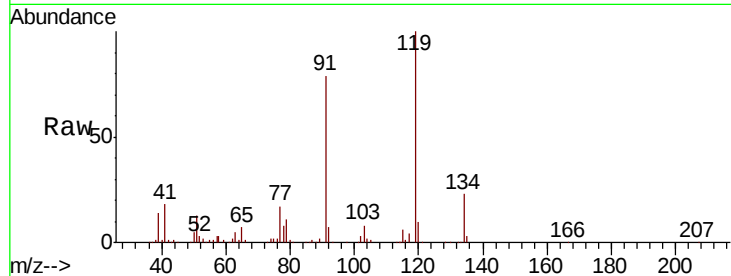




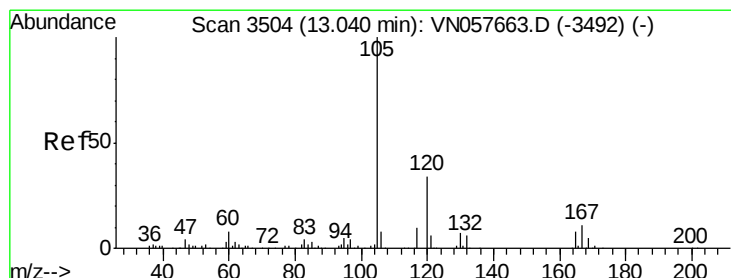
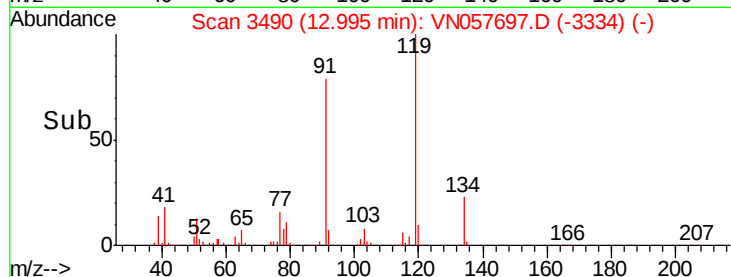
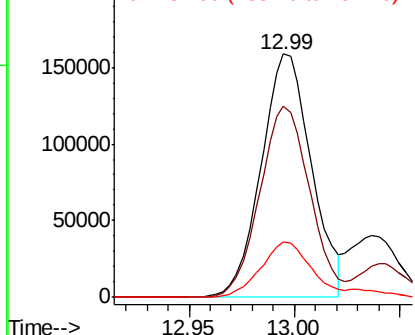
#79  
tert-butylbenzene  
Concen: 19.999 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

Tgt Ion:119 Resp: 262744  
Ion Ratio Lower Upper  
119 100  
91 78.3 0.0 155.6  
134 22.9 0.0 48.2

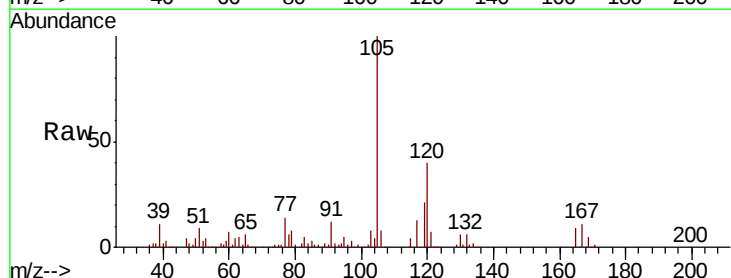


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VN  
Ion 134.00 (133.70 to 134.70): V

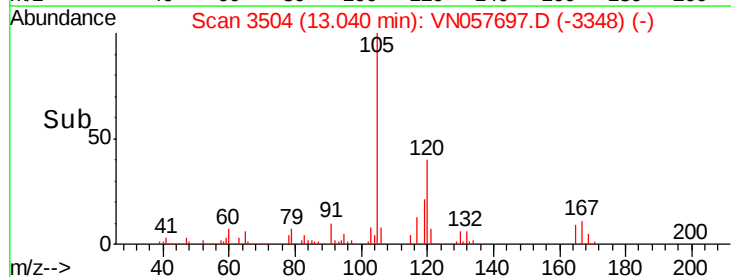
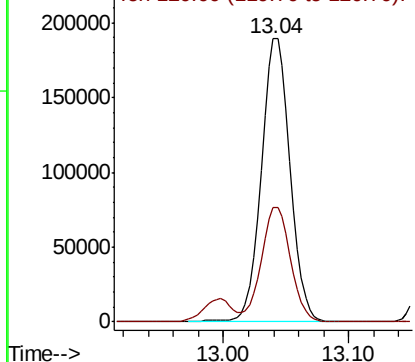


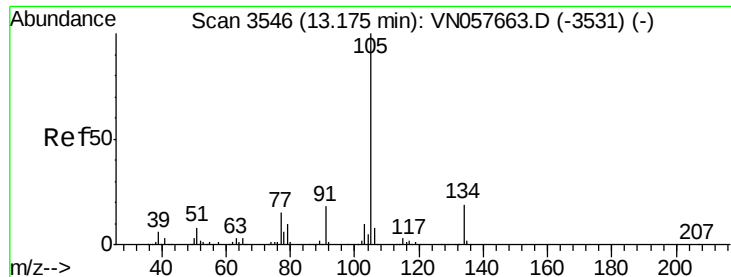
#80  
1,2,4-Trimethylbenzene  
Concen: 20.980 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion:105 Resp: 301556  
Ion Ratio Lower Upper  
105 100  
120 41.1 0.0 83.4



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 19.722 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

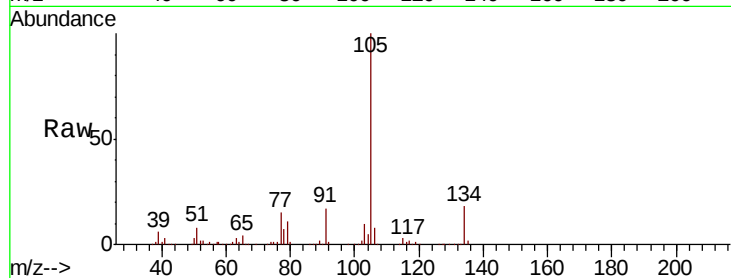
VN0905WBS01

Tgt Ion:105 Resp: 333912

Ion Ratio Lower Upper

105 100

134 18.4 0.0 36.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

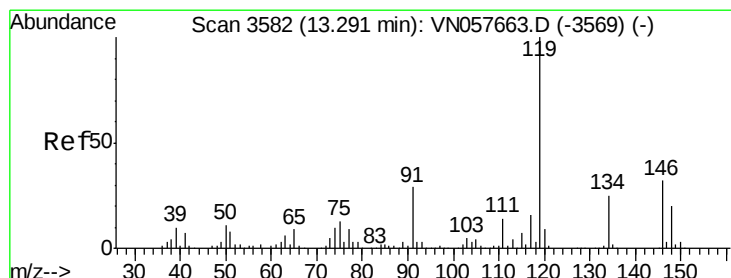
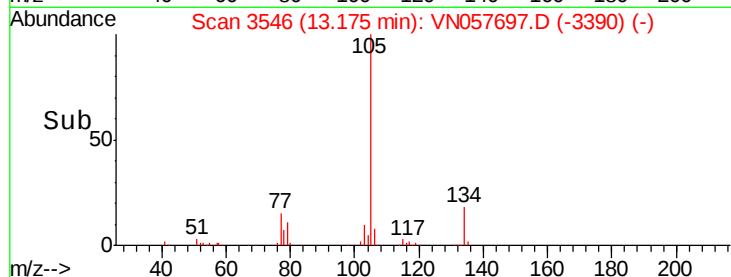
100000

50000

0

13.10 13.15 13.20 13.25

Time-->



#82

p-Isopropyltoluene

Concen: 19.623 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

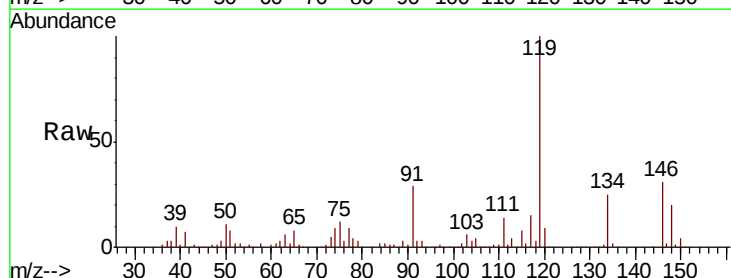
Tgt Ion:119 Resp: 282179

Ion Ratio Lower Upper

119 100

134 24.8 0.0 49.6

91 29.0 0.0 56.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

250000

200000

150000

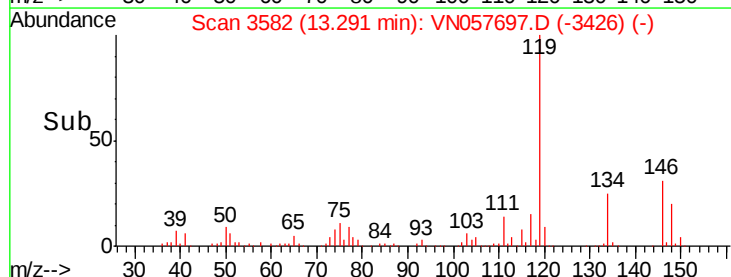
100000

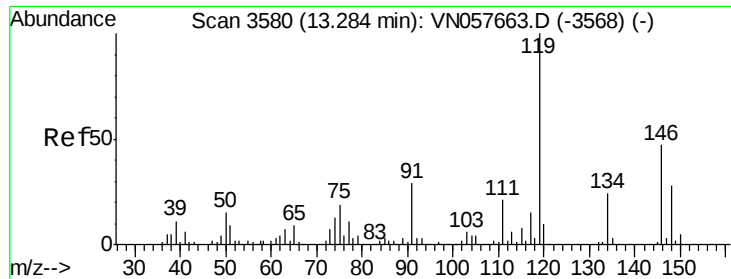
50000

0

13.25 13.30 13.35

Time-->





#83

1,3-Dichlorobenzene

Concen: 17.723 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

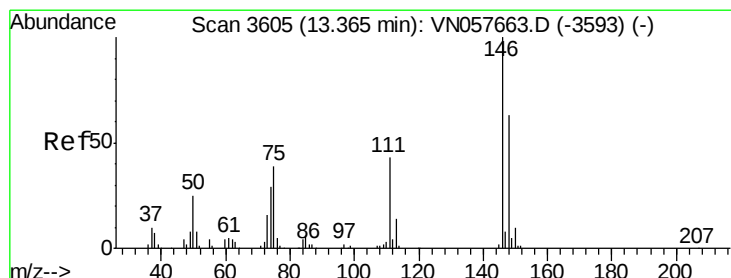
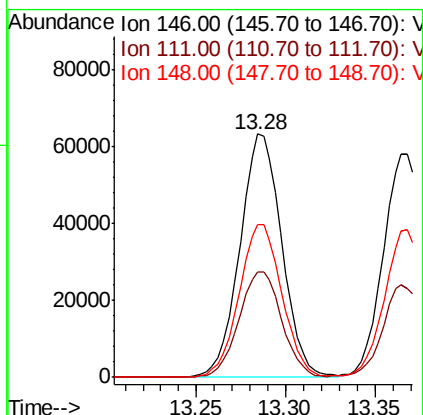
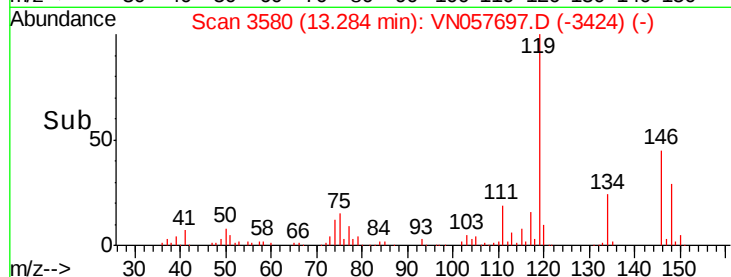
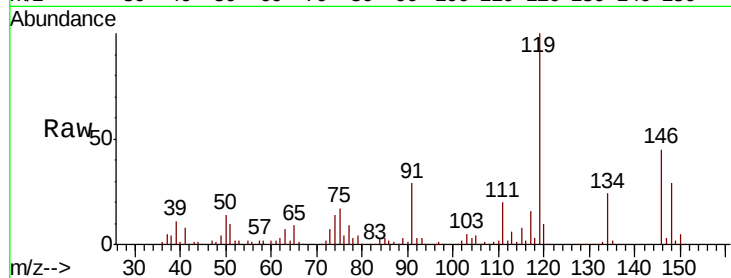
Tgt Ion:146 Resp: 103644

Ion Ratio Lower Upper

146 100

111 44.2 22.1 66.3

148 64.1 31.3 93.9



#84

1,4-Dichlorobenzene

Concen: 17.634 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

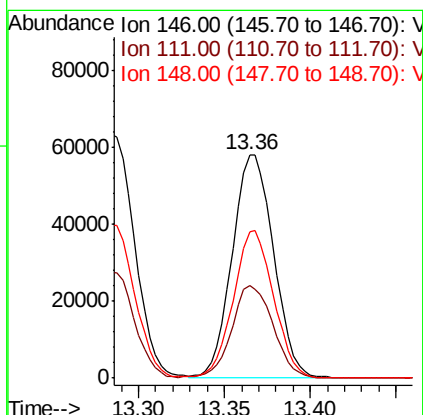
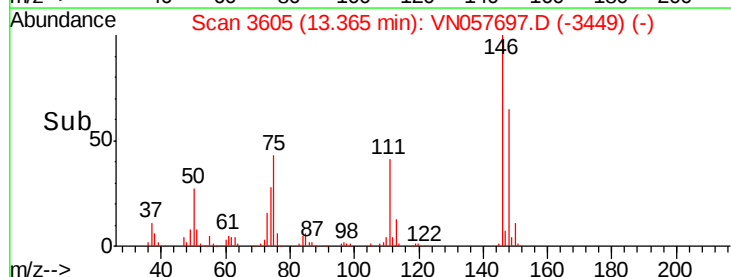
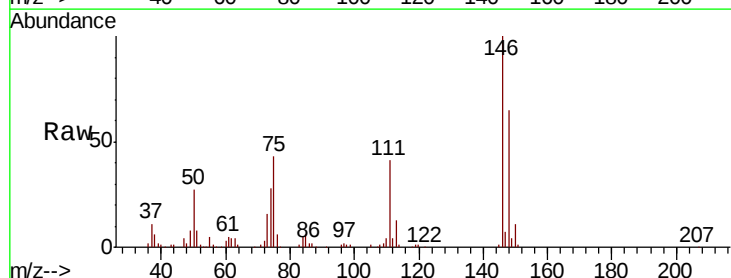
Tgt Ion:146 Resp: 97353

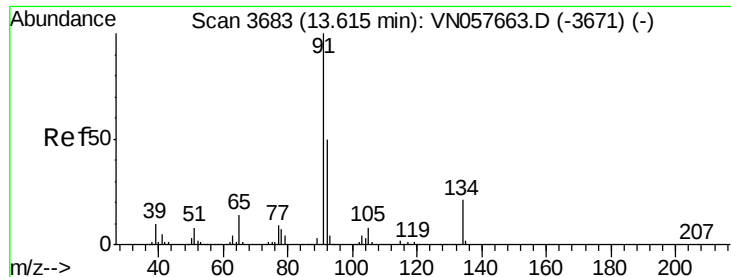
Ion Ratio Lower Upper

146 100

111 41.1 21.3 63.9

148 63.9 31.0 93.0





#85

n-Butylbenzene

Concen: 19.555 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN057697.D

Acq: 5 Sep 2019 11:47

Instrument :

MSVOA\_N

ClientSampleId :

VN0905WBS01

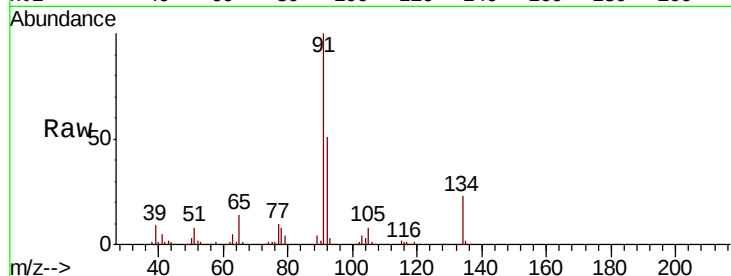
Tgt Ion: 91 Resp: 247174

Ion Ratio Lower Upper

91 100

92 51.2 0.0 100.2

134 22.7 0.0 43.8



Abundance Ion 91.00 (90.70 to 91.70): VN057663.D (-3671) (-)

Ion 92.00 (91.70 to 92.70): VN057663.D (-3671) (-)

Ion 134.00 (133.70 to 134.70): VN057663.D (-3671) (-)

13.62

150000

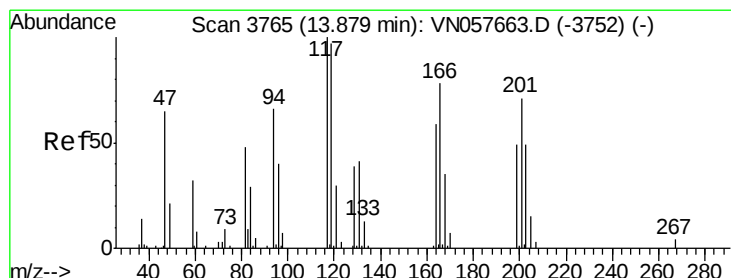
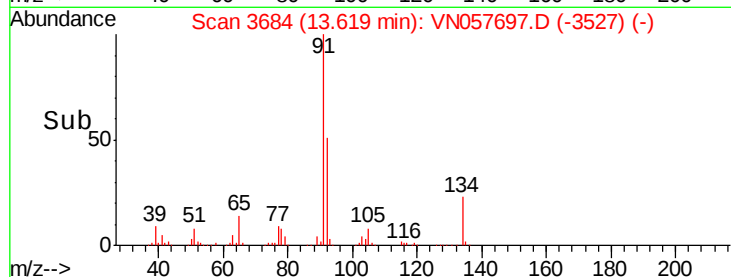
100000

50000

0

13.55 13.60 13.65 13.70

Time-->



#86

Hexachloroethane

Concen: 19.887 ug/l

RT: 13.88 min Scan# 3765

Delta R.T. 0.00 min

Lab File: VN057697.D

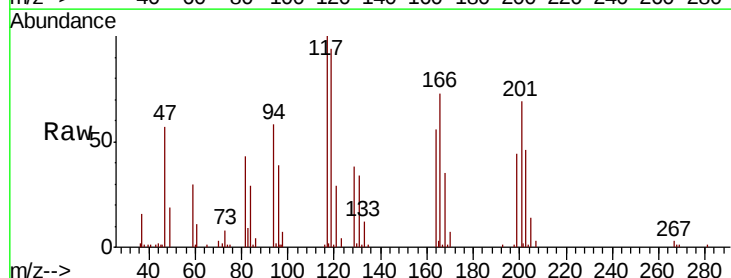
Acq: 5 Sep 2019 11:47

Tgt Ion: 117 Resp: 51750

Ion Ratio Lower Upper

117 100

201 72.3 34.1 102.2



Abundance Ion 117.00 (116.70 to 117.70): VN057663.D (-3752) (-)

Ion 201.00 (200.70 to 201.70): VN057663.D (-3752) (-)

13.88

30000

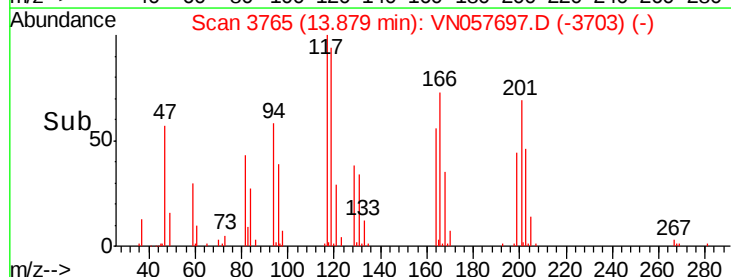
20000

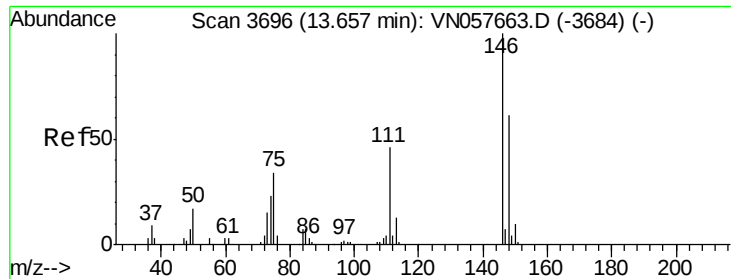
10000

0

13.80 13.85 13.90

Time-->

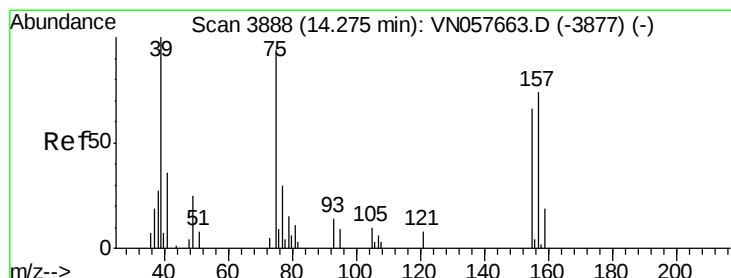
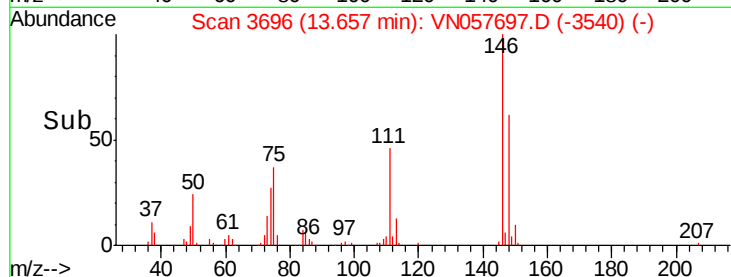
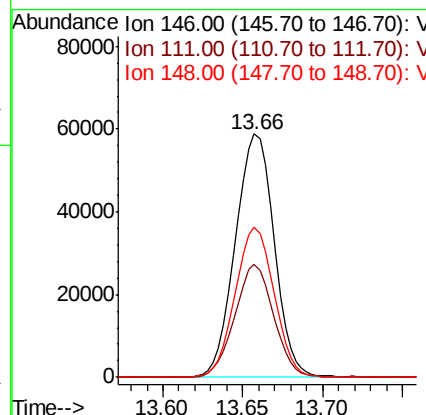
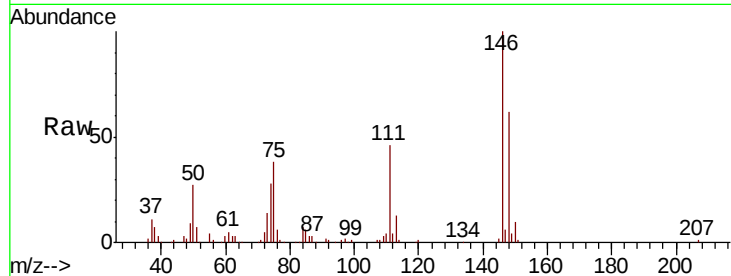




#87  
 1,2-Dichlorobenzene  
 Concen: 18.056 ug/l  
 RT: 13.66 min Scan# 3696  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

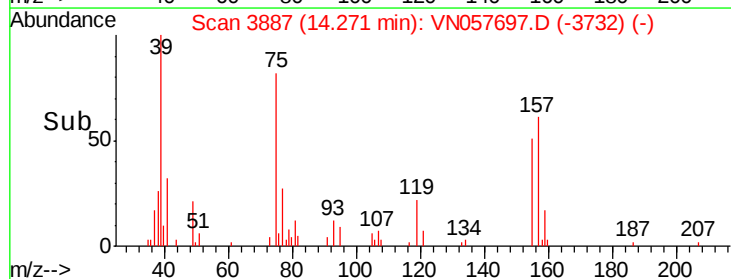
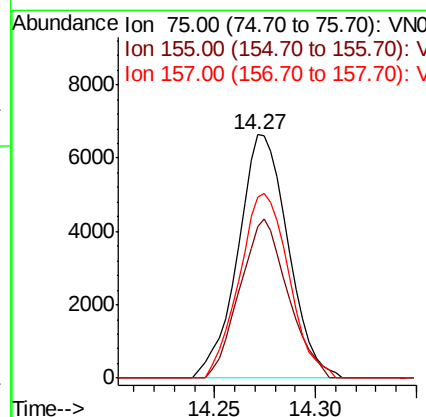
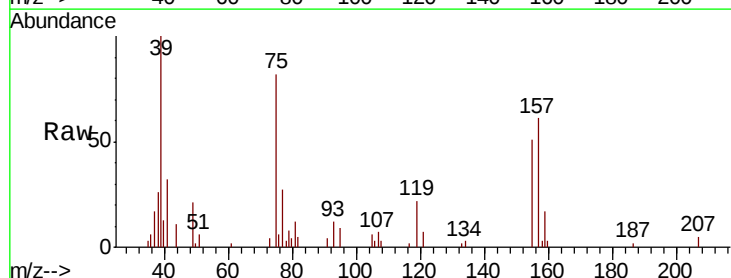
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

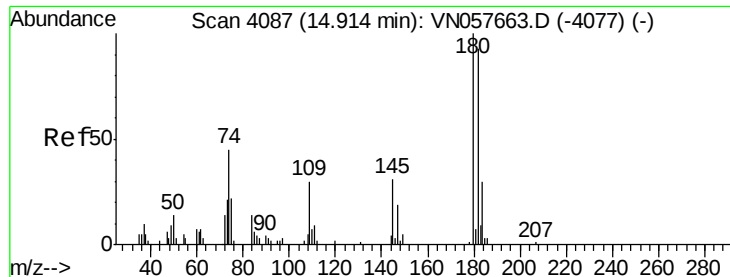
Tgt Ion: 146 Resp: 97422  
 Ion Ratio Lower Upper  
 146 100  
 111 46.3 22.6 67.7  
 148 61.8 31.3 93.9



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 16.287 ug/l  
 RT: 14.27 min Scan# 3887  
 Delta R.T. -0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion: 75 Resp: 11576  
 Ion Ratio Lower Upper  
 75 100  
 155 62.2 54.6 82.0  
 157 74.9 65.5 98.3

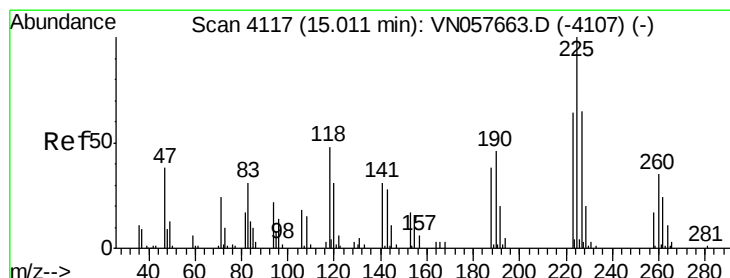
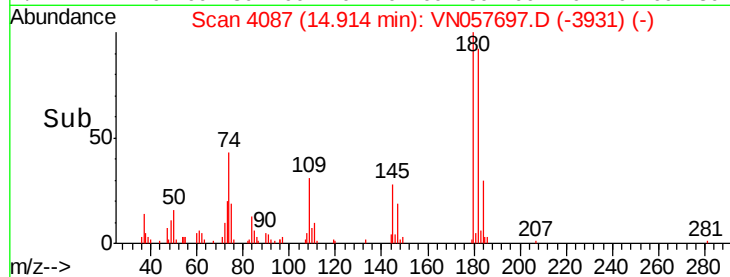
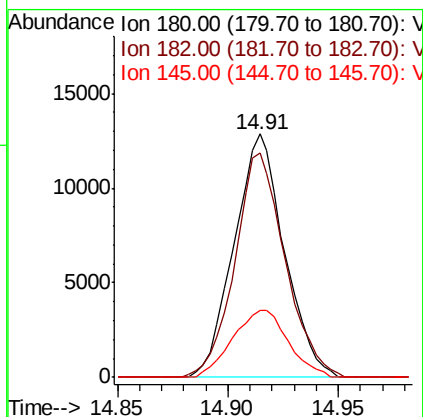
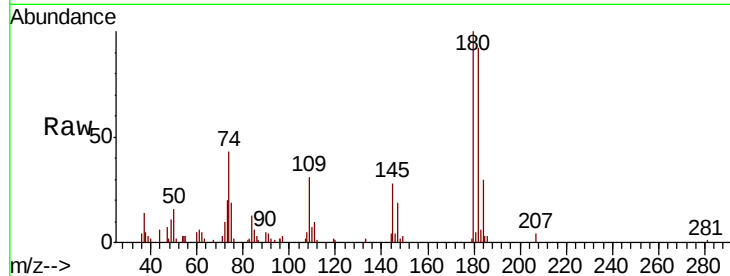




#89  
 1,2,4-Trichlorobenzene  
 Concen: 10.874 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

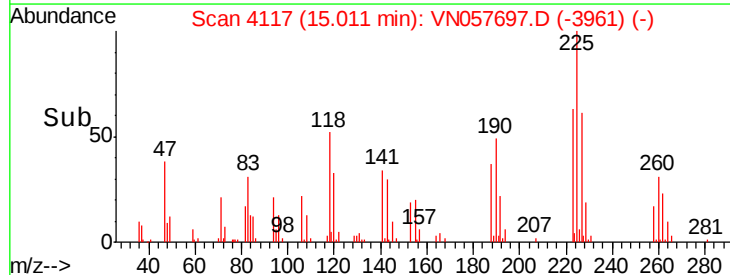
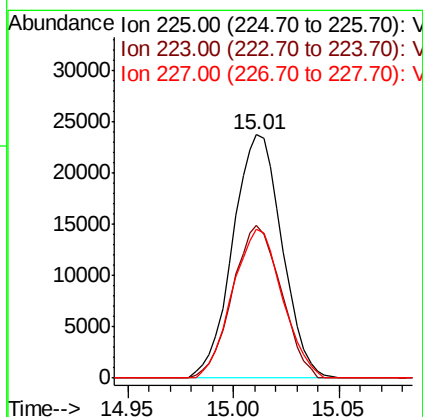
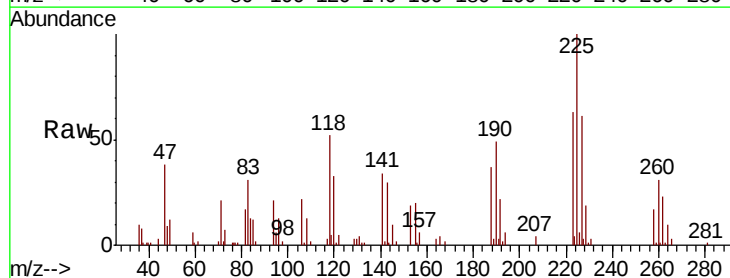
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0905WBS01

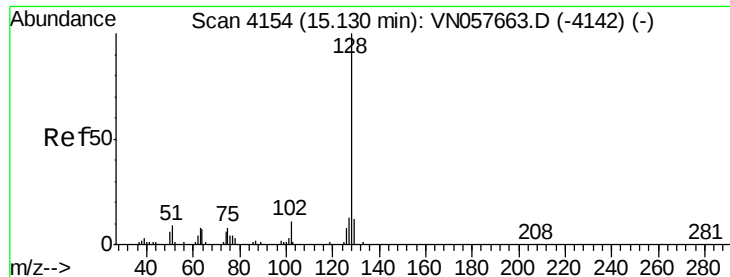
Tgt Ion:180 Resp: 20329  
 Ion Ratio Lower Upper  
 180 100  
 182 92.4 77.4 116.2  
 145 30.5 25.1 37.7



#90  
 Hexachlorobutadiene  
 Concen: 18.557 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN057697.D  
 Acq: 5 Sep 2019 11:47

Tgt Ion:225 Resp: 38479  
 Ion Ratio Lower Upper  
 225 100  
 223 62.0 0.0 131.0  
 227 61.9 0.0 128.6

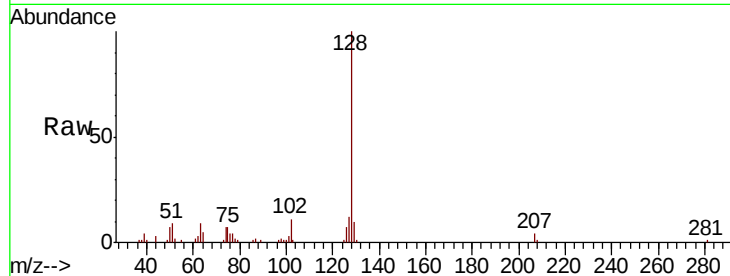




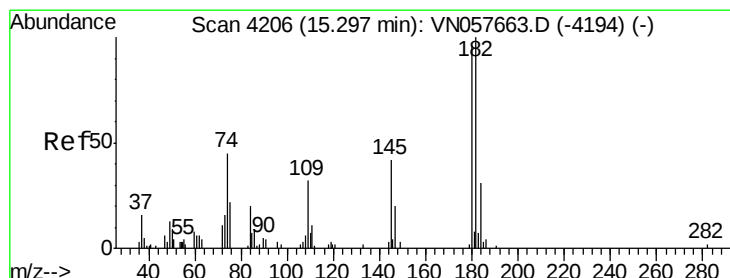
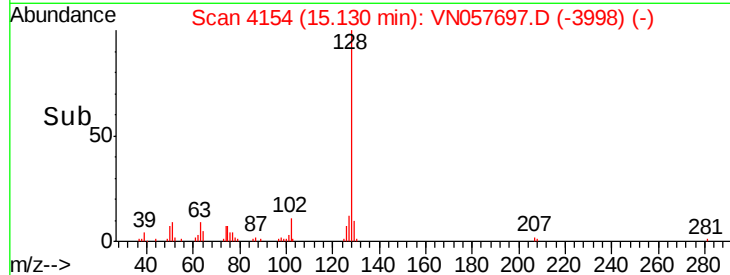
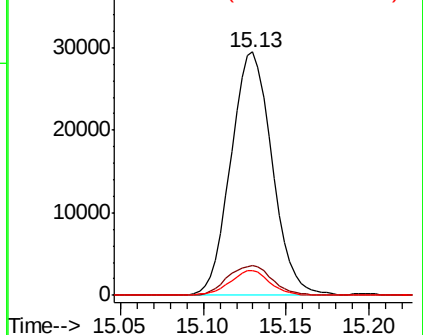
#91  
Naphthalene  
Concen: 10.533 ug/l  
RT: 15.13 min Scan# 4154  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0905WBS01

Tgt Ion:128 Resp: 51141  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.3 15.5  
129 9.7 9.1 13.7

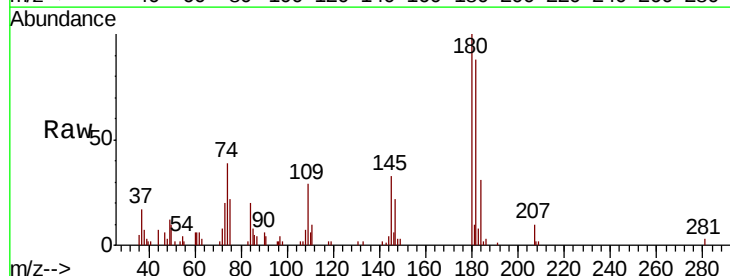


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#92  
1,2,3-Trichlorobenzene  
Concen: 10.439 ug/l  
RT: 15.30 min Scan# 4207  
Delta R.T. 0.00 min  
Lab File: VN057697.D  
Acq: 5 Sep 2019 11:47

Tgt Ion:180 Resp: 18962  
Ion Ratio Lower Upper  
180 100  
182 96.7 0.0 199.4  
145 33.1 0.0 73.2



Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

