

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN071320\  
 Data File : VN062507.D  
 Acq On : 13 Jul 2020 9:36  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Quant Time: Jul 13 10:38:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N071320W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jul 13 10:35:22 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.15  | 128  | 47176    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.55  | 114  | 265983   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.38 | 117  | 238891   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 7.99   | 65    | 122477   | 38.58    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 128.60% |
| 60) 4-Bromofluorobenzene  | 12.37  | 95    | 115579   | 31.88    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 106.27% |
| 63) Toluene-d8            | 10.06  | 98    | 341813   | 32.90    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 109.67% |

## Target Compounds

|                               |      |     |       |               | Qvalue |
|-------------------------------|------|-----|-------|---------------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 12640 | 5.933 ug/l    | 98     |
| 3) Chloromethane              | 2.04 | 50  | 19201 | 7.227 ug/l    | 98     |
| 4) Vinyl Chloride             | 2.16 | 62  | 16973 | 5.116 ug/l    | 93     |
| 5) Bromomethane               | 2.52 | 94  | 9271  | 4.555 ug/l    | 98     |
| 6) Chloroethane               | 2.67 | 64  | 8152  | 3.724 ug/l    | 100    |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 20684 | 4.518 ug/l    | 98     |
| 8) Diethyl Ether              | 3.37 | 74  | 9296  | 5.815 ug/l    | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 13194 | 5.284 ug/l    | 83     |
| 10) 1,1-Dichloroethene        | 3.69 | 96  | 13318 | 5.378 ug/l    | 96     |
| 11) Methyl Iodide             | 3.91 | 142 | 11745 | 3.586 ug/l    | 98     |
| 12) Methyl Acetate            | 4.28 | 43  | 17929 | 7.911 ug/l    | 100    |
| 13) Acrolein                  | 3.57 | 56  | 8001  | 24.957 ug/l # | 47     |
| 14) Acrylonitrile             | 4.93 | 53  | 38027 | 33.542 ug/l   | 88     |
| 15) Acetone                   | 3.77 | 58  | 11836 | 33.013 ug/l   | 92     |
| 16) Carbon Disulfide          | 4.00 | 76  | 43254 | 7.766 ug/l    | 99     |
| 17) Allyl chloride            | 4.27 | 41  | 27333 | 8.085 ug/l    | 97     |
| 18) Methylene Chloride        | 4.50 | 84  | 16618 | 5.724 ug/l    | 98     |
| 19) trans-1,2-Dichloroethene  | 4.99 | 96  | 14925 | 5.431 ug/l #  | 90     |
| 20) Diisopropyl ether         | 5.90 | 45  | 56714 | 7.379 ug/l    | 98     |
| 21) 1,1-Dichloroethane        | 5.79 | 63  | 30132 | 6.325 ug/l    | 99     |
| 22) cis-1,2-Dichloroethene    | 6.77 | 96  | 16324 | 5.068 ug/l    | 98     |
| 23) tert-Butyl Alcohol        | 4.73 | 59  | 12812 | 30.033 ug/l # | 100    |
| 24) Methyl tert-Butyl Ether   | 4.99 | 73  | 46747 | 5.691 ug/l #  | 74     |
| 25) Chloroform                | 7.32 | 83  | 27987 | 5.445 ug/l    | 99     |
| 26) Cyclohexane               | 7.61 | 56  | 25247 | 6.701 ug/l #  | 99     |
| 29) 1,1-Dichloropropene       | 7.75 | 75  | 20792 | 5.478 ug/l    | 98     |
| 30) 2-Butanone                | 6.78 | 43  | 53457 | 35.172 ug/l   | 99     |
| 31) 2,2-Dichloropropane       | 6.77 | 77  | 24495 | 5.518 ug/l #  | 84     |
| 32) 1,1,1-Trichloroethane     | 7.53 | 97  | 22988 | 4.899 ug/l    | 99     |
| 33) Carbon Tetrachloride      | 7.72 | 117 | 19898 | 5.122 ug/l    | 96     |
| 34) Benzene                   | 8.00 | 78  | 63277 | 5.385 ug/l #  | 67     |
| 35) Methacrylonitrile         | 7.12 | 41  | 7754  | 5.772 ug/l    | 95     |
| 36) 1,2-Dichloroethane        | 8.08 | 62  | 23576 | 6.038 ug/l    | 98     |
| 37) Trichloroethene           | 8.80 | 130 | 13876 | 4.038 ug/l    | 94     |
| 38) Methylcyclohexane         | 9.05 | 83  | 23511 | 5.552 ug/l    | 97     |
| 39) 1,2-Dichloropropane       | 9.08 | 63  | 18001 | 6.100 ug/l    | 98     |
| 40) Dibromomethane            | 9.17 | 93  | 10521 | 5.063 ug/l    | 97     |

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 Acq On : 13 Jul 2020 9:36  
 Operator : JC/MD  
 Sample : VSTDIC005  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleID :  
 VSTDIC005

Quant Time: Jul 13 10:38:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N071320W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jul 13 10:35:22 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 41) Bromodichloromethane       | 9.37  | 83   | 21649    | 5.090  | ug/l  | 98       |
| 42) Vinyl Acetate              | 5.84  | 43   | 227509   | 36.822 | ug/l  | 99       |
| 43) Ethyl Acetate              | 6.88  | 43   | 22074    | 7.211  | ug/l  | 97       |
| 44) Isopropyl Acetate          | 8.12  | 43   | 36102    | 6.780  | ug/l  | 98       |
| 45) 1,4-Dioxane                | 9.16  | 88   | 4702     | 94.239 | ug/l  | 92       |
| 46) Methyl methacrylate        | 9.17  | 41   | 16354    | 6.823  | ug/l  | 92       |
| 47) n-amyl Acetate             | 12.05 | 43   | 24964    | 5.518  | ug/l  | 99       |
| 48) t-1,3-Dichloropropene      | 10.35 | 75   | 23771    | 5.219  | ug/l  | 97       |
| 49) cis-1,3-Dichloropropene    | 9.81  | 75   | 26541    | 5.359  | ug/l  | 95       |
| 50) 1,1,2-Trichloroethane      | 10.53 | 97   | 14503    | 4.813  | ug/l  | 99       |
| 51) Ethyl methacrylate         | 10.40 | 69   | 21464    | 5.176  | ug/l  | 99       |
| 52) 1,3-Dichloropropane        | 10.68 | 76   | 26018    | 5.266  | ug/l  | 98       |
| 53) Dibromochloromethane       | 10.87 | 129  | 14719    | 4.216  | ug/l  | 99       |
| 54) 1,2-Dibromoethane          | 10.98 | 107  | 14671    | 4.712  | ug/l  | 96       |
| 55) 2-Chloroethyl vinyl ether  | 9.66  | 63   | 26968    | 17.654 | ug/l  | 99       |
| 56) Bromoform                  | 12.10 | 173  | 9557     | 3.917  | ug/l  | 96       |
| 58) 4-Methyl-2-Pentanone       | 9.95  | 43   | 103845   | 34.760 | ug/l  | 100      |
| 59) 2-Hexanone                 | 10.72 | 43   | 73502    | 33.702 | ug/l  | 99       |
| 61) Tetrachloroethene          | 10.60 | 164  | 12165    | 3.518  | ug/l  | 95       |
| 62) Toluene                    | 10.12 | 91   | 64404    | 5.145  | ug/l  | 99       |
| 64) Chlorobenzene              | 11.40 | 112  | 38093    | 4.837  | ug/l  | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 14063    | 4.690  | ug/l  | 99       |
| 66) Ethyl Benzene              | 11.48 | 91   | 68712    | 5.002  | ug/l  | 95       |
| 67) m/p-Xylenes                | 11.59 | 106  | 49851    | 9.324  | ug/l  | 100      |
| 68) o-Xylene                   | 11.92 | 106  | 23669    | 4.671  | ug/l  | 100      |
| 69) Styrene                    | 11.94 | 104  | 38491    | 4.465  | ug/l  | 98       |
| 70) Isopropylbenzene           | 12.22 | 105  | 63845    | 4.747  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 20993    | 5.609  | ug/l  | 98       |
| 72) 1,2,3-Trichloropropane     | 12.53 | 75   | 28018    | 8.019  | ug/l  | 60       |
| 73) Bromobenzene               | 12.50 | 156  | 15238    | 4.316  | ug/l  | 97       |
| 74) n-propylbenzene            | 12.56 | 91   | 73927    | 4.836  | ug/l  | 100      |
| 75) 2-Chlorotoluene            | 12.65 | 91   | 45735    | 5.025  | ug/l  | 99       |
| 76) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 53864    | 4.803  | ug/l  | 97       |
| 77) t-1,4-Dichloro-2-butene    | 12.27 | 75   | 6769     | 5.258  | ug/l  | 97       |
| 78) 4-Chlorotoluene            | 12.75 | 91   | 44364    | 4.709  | ug/l  | 99       |
| 79) tert-butylbenzene          | 12.97 | 119  | 44062    | 4.554  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 50733    | 4.510  | ug/l  | 98       |
| 81) sec-Butylbenzene           | 13.15 | 105  | 59483    | 4.758  | ug/l  | 98       |
| 82) p-Isopropyltoluene         | 13.26 | 119  | 50946    | 4.429  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene        | 13.26 | 146  | 24094    | 3.852  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene        | 13.34 | 146  | 23807    | 3.882  | ug/l  | 97       |
| 85) n-Butylbenzene             | 13.59 | 91   | 41355    | 4.357  | ug/l  | 98       |
| 86) Hexachloroethane           | 13.85 | 117  | 10244    | 5.957  | ug/l  | 92       |
| 87) 1,2-Dichlorobenzene        | 13.62 | 146  | 24034    | 4.046  | ug/l  | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.25 | 75   | 3303     | 4.714  | ug/l  | 97       |
| 89) 1,2,4-Trichlorobenzene     | 14.88 | 180  | 8470     | 2.499  | ug/l  | 93       |
| 90) Hexachlorobutadiene        | 14.98 | 225  | 6894     | 4.502  | ug/l  | 95       |
| 91) Naphthalene                | 15.10 | 128  | 23201    | 2.470  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.28 | 180  | 9258     | 2.779  | ug/l  | 97       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN071320\  
Data File : VN062507.D  
Acq On : 13 Jul 2020 9:36  
Operator : JC/MD  
Sample : VSTDICC005  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Quant Time: Jul 13 10:38:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N071320W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jul 13 10:35:22 2020  
Response via : Initial Calibration

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

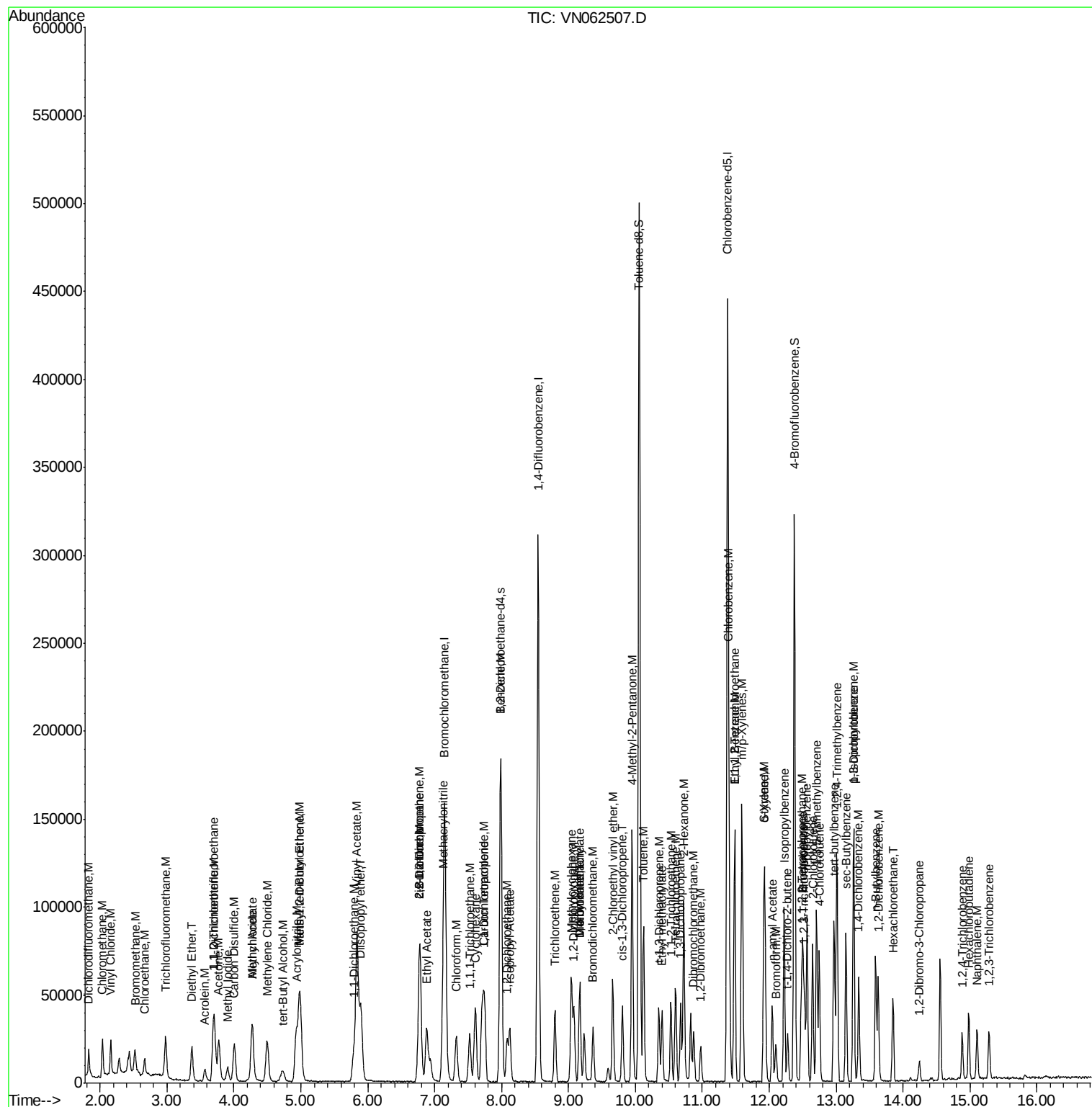
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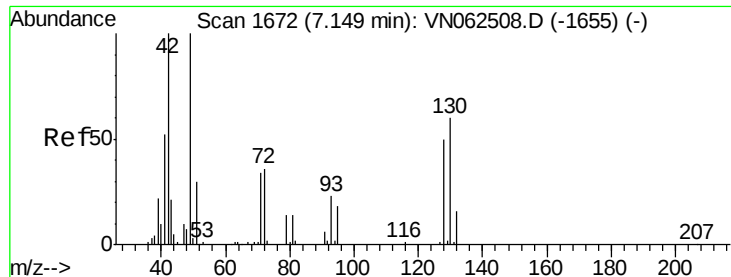
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Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN071320\  
Data File : VN062507.D  
Acq On : 13 Jul 2020 9:36  
Operator : JC/MD  
Sample : VSTDIC005  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Quant Time: Jul 13 10:38:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N071320W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jul 13 10:35:22 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

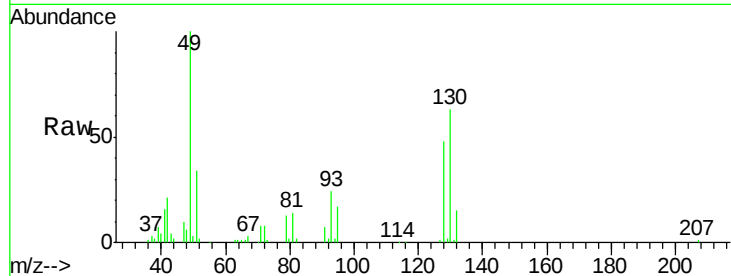
Tgt Ion:128 Resp: 47176

Ion Ratio Lower Upper

128 100

49 206.7 0.0 525.0

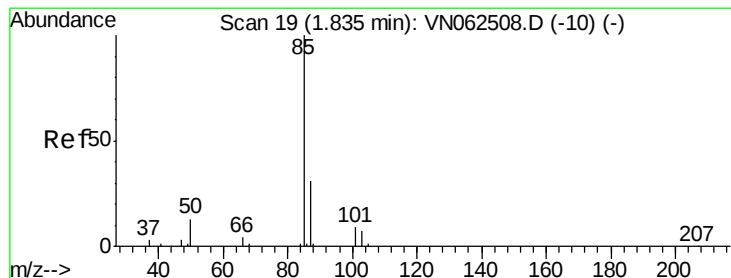
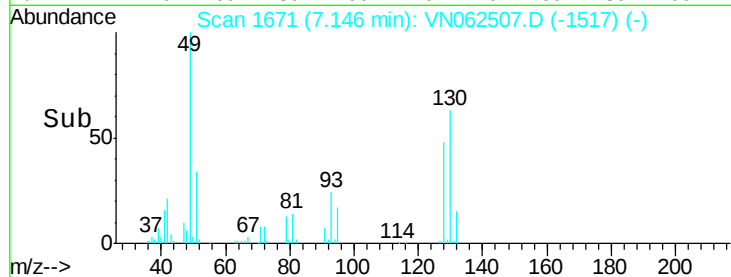
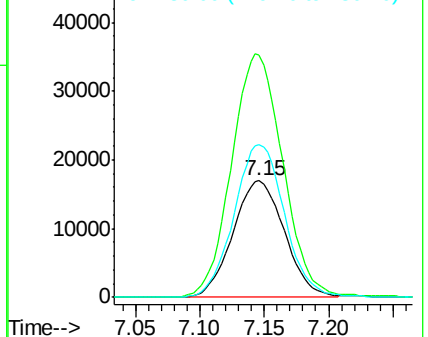
130 128.6 0.0 319.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 5.933 ug/l

RT: 1.83 min Scan# 18

Delta R.T. -0.00 min

Lab File: VN062507.D

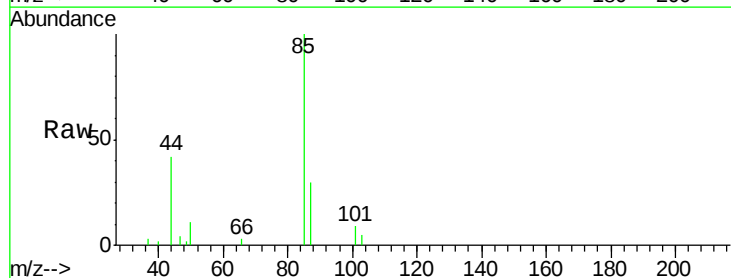
Acq: 13 Jul 2020 9:36

Tgt Ion: 85 Resp: 12640

Ion Ratio Lower Upper

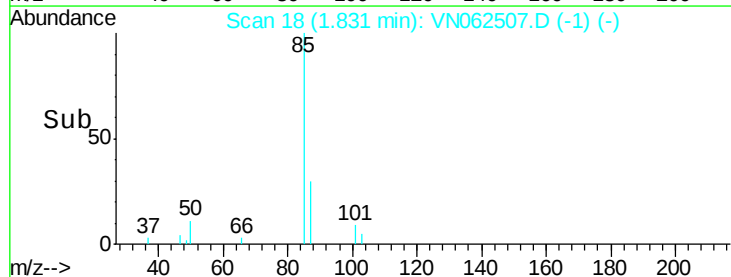
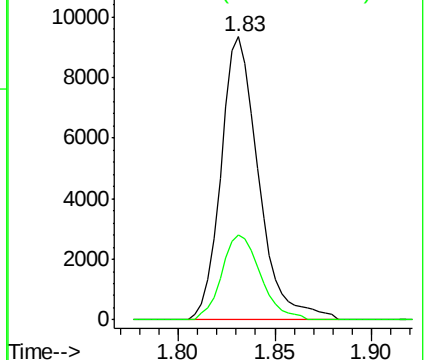
85 100

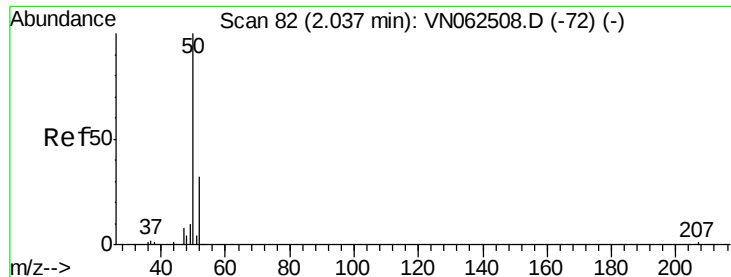
87 30.1 15.6 46.7



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 7.227 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

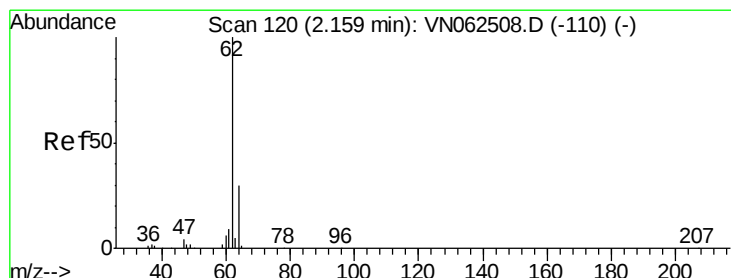
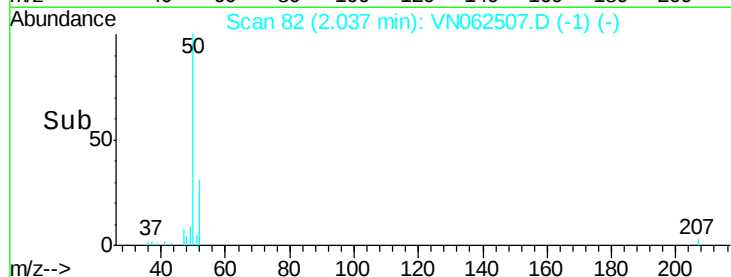
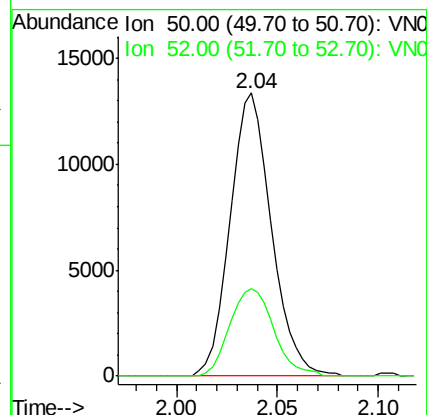
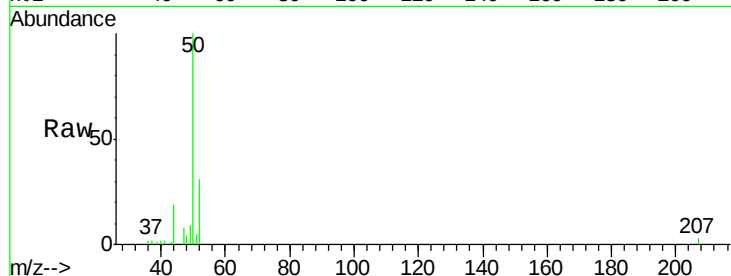
VSTDIC005

Tgt Ion: 50 Resp: 19201

Ion Ratio Lower Upper

50 100

52 30.8 25.4 38.2



#4

Vinyl Chloride

Concen: 5.116 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN062507.D

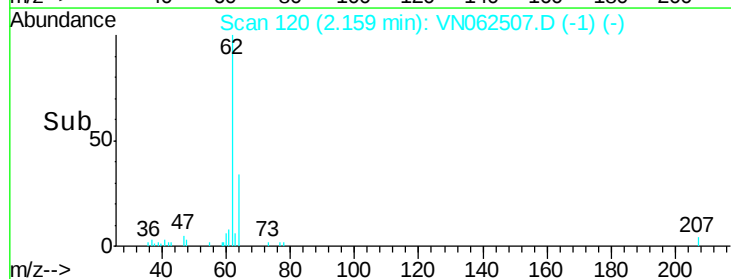
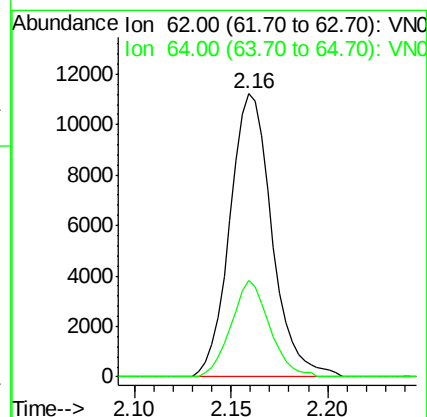
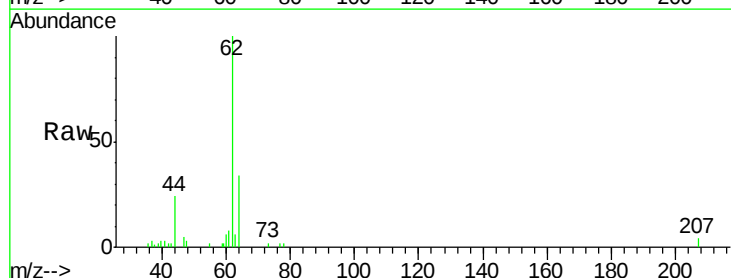
Acq: 13 Jul 2020 9:36

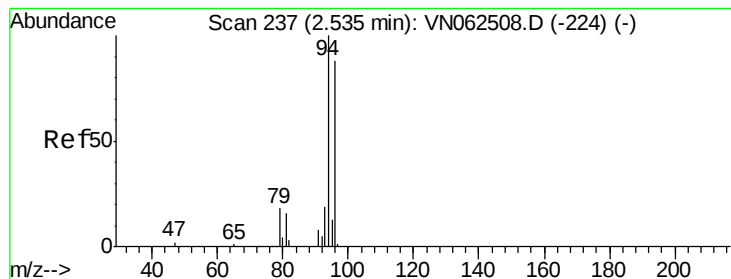
Tgt Ion: 62 Resp: 16973

Ion Ratio Lower Upper

62 100

64 34.1 24.3 36.5





#5

Bromomethane

Concen: 4.555 ug/l

RT: 2.52 min Scan# 233

Delta R.T. -0.01 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

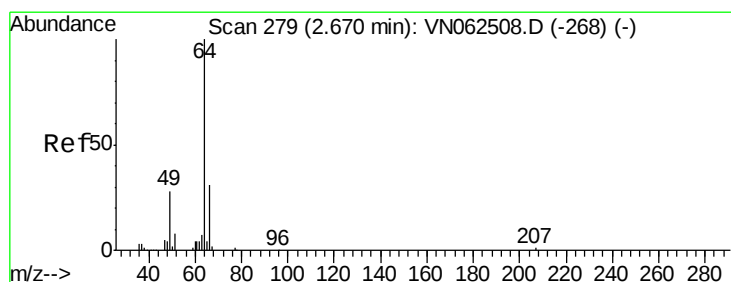
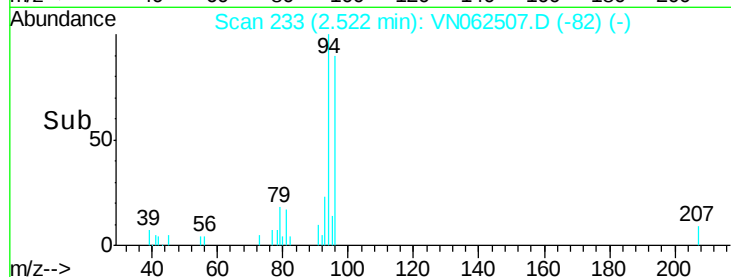
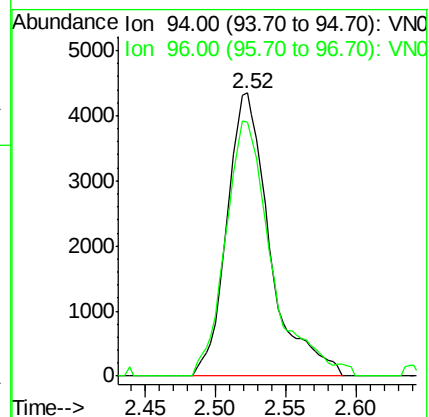
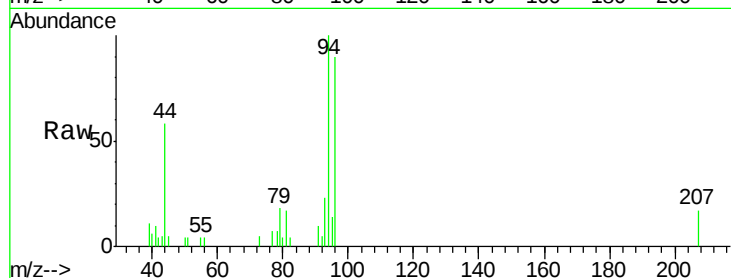
VSTDIC005

Tgt Ion: 94 Resp: 9271

Ion Ratio Lower Upper

94 100

96 89.9 70.2 105.4



#6

Chloroethane

Concen: 3.724 ug/l

RT: 2.67 min Scan# 278

Delta R.T. -0.00 min

Lab File: VN062507.D

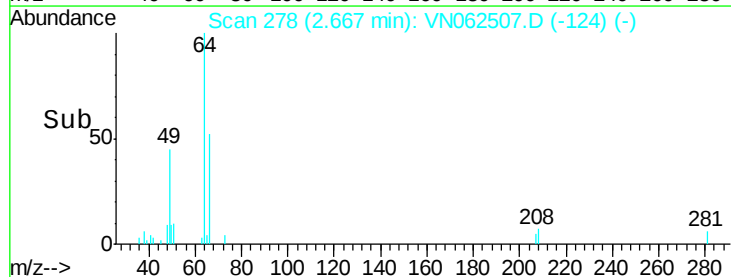
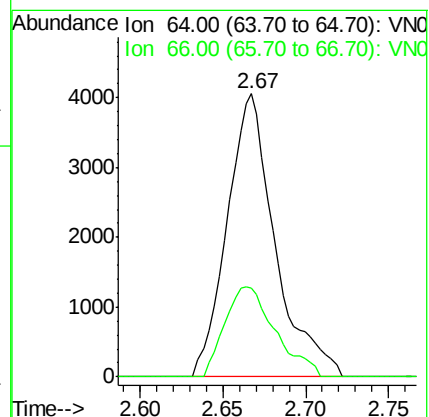
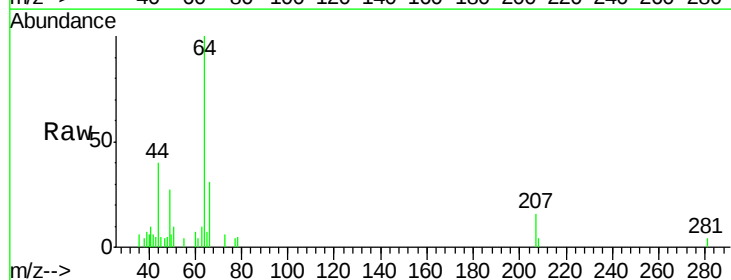
Acq: 13 Jul 2020 9:36

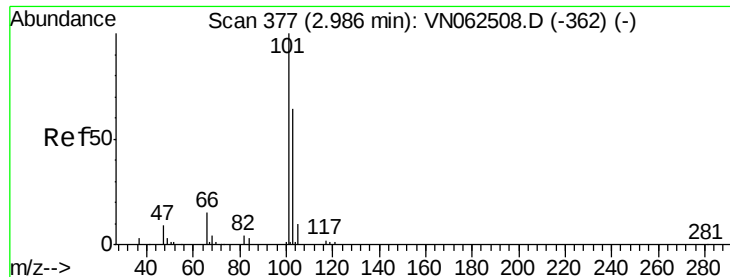
Tgt Ion: 64 Resp: 8152

Ion Ratio Lower Upper

64 100

66 31.4 24.9 37.3



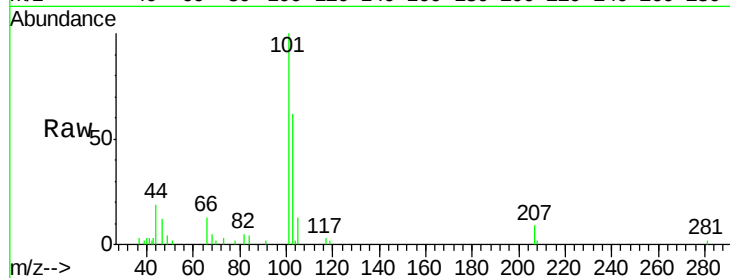


#7

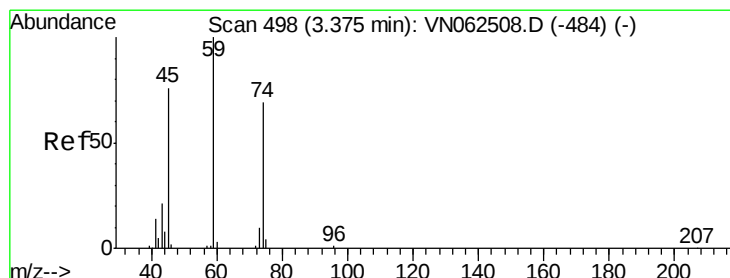
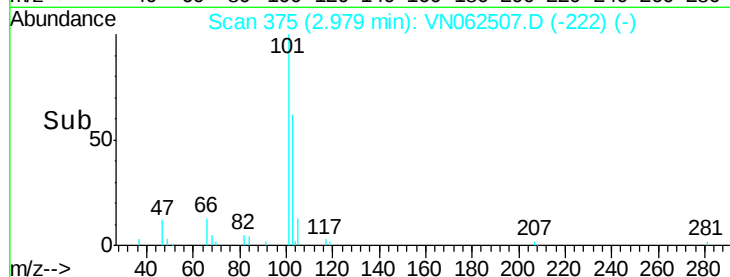
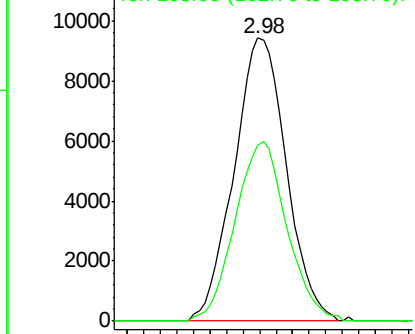
Trichlorofluoromethane  
 Concen: 4.518 ug/l  
 RT: 2.98 min Scan# 375  
 Delta R.T. -0.01 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 VSTDIC005

Tgt Ion: 101 Resp: 20684  
 Ion Ratio Lower Upper  
 101 100  
 103 62.1 50.9 76.3



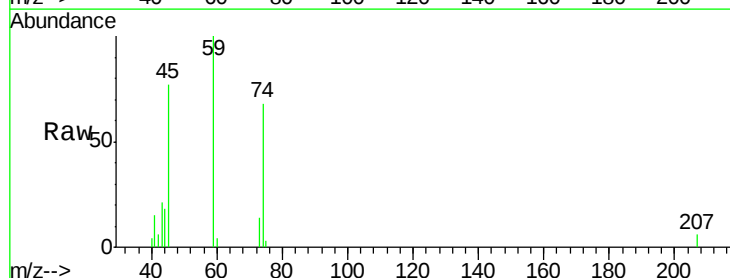
Abundance Ion 101.00 (100.70 to 101.70): V  
 Ion 103.00 (102.70 to 103.70): V



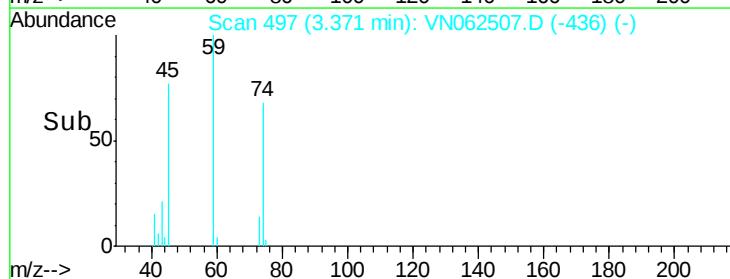
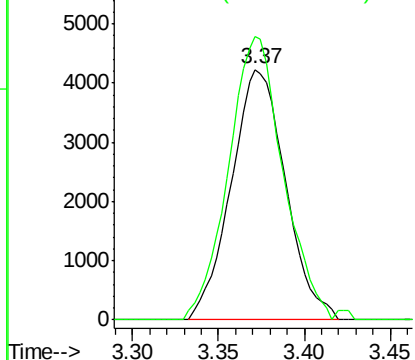
#8

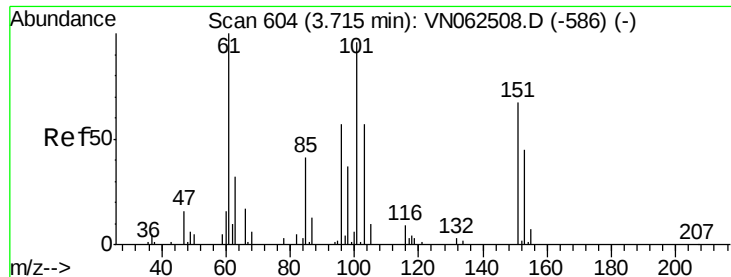
Diethyl Ether  
 Concen: 5.815 ug/l  
 RT: 3.37 min Scan# 497  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 74 Resp: 9296  
 Ion Ratio Lower Upper  
 74 100  
 45 113.5 21.8 196.6



Abundance Ion 74.00 (73.70 to 74.70): VNO  
 Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.284 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

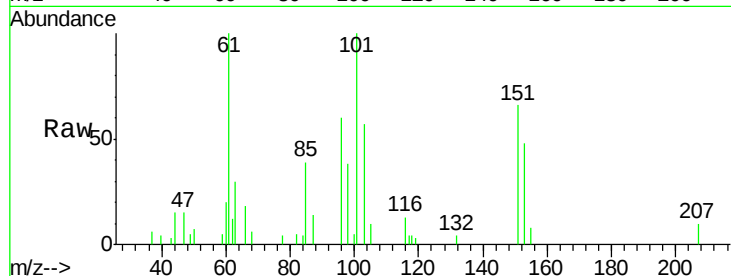
Tgt Ion: 101 Resp: 13194

Ion Ratio Lower Upper

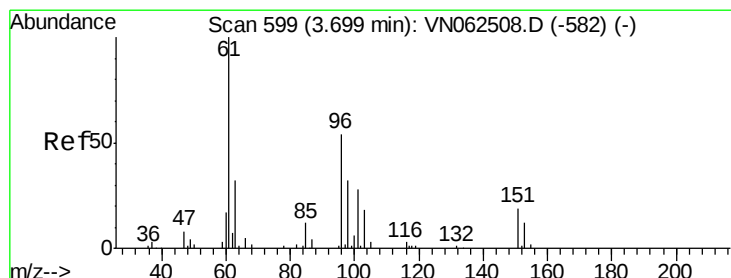
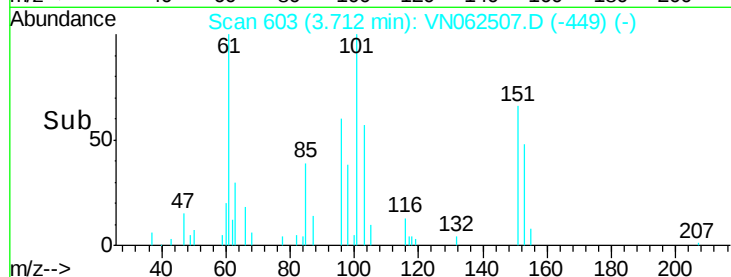
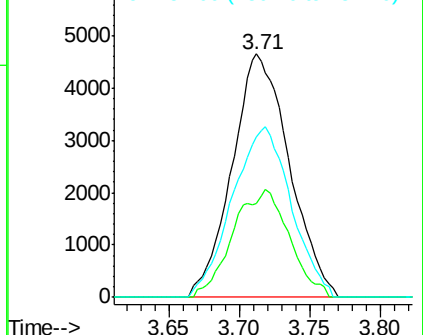
101 100

85 17.8 0.0 90.4

151 72.0 0.0 145.6



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 85.00 (84.70 to 85.70): V  
Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 5.378 ug/l

RT: 3.69 min Scan# 596

Delta R.T. -0.01 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

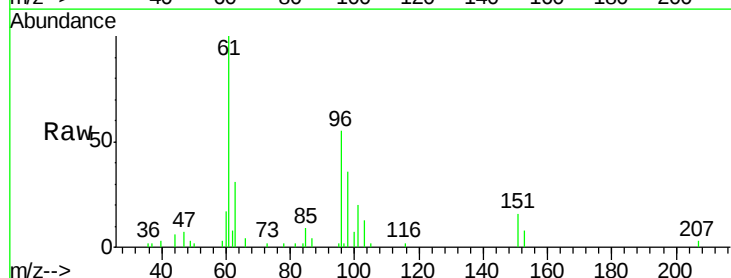
Tgt Ion: 96 Resp: 13318

Ion Ratio Lower Upper

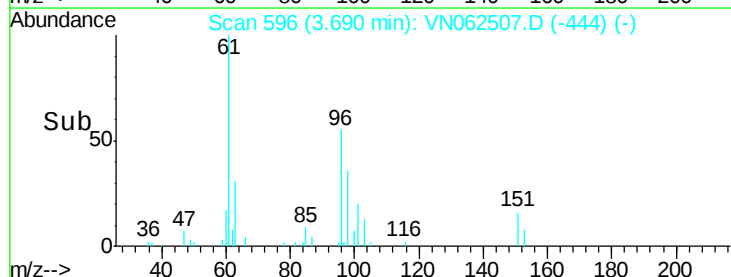
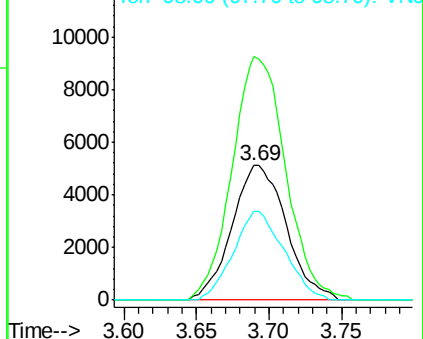
96 100

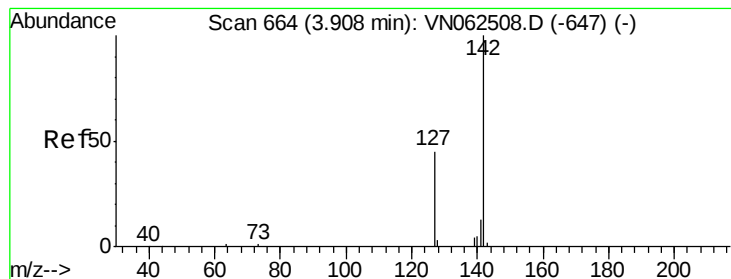
61 181.3 147.8 221.8

98 66.1 47.8 71.8



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





#11

Methyl Iodide

Concen: 3.586 ug/l

RT: 3.91 min Scan# 664

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

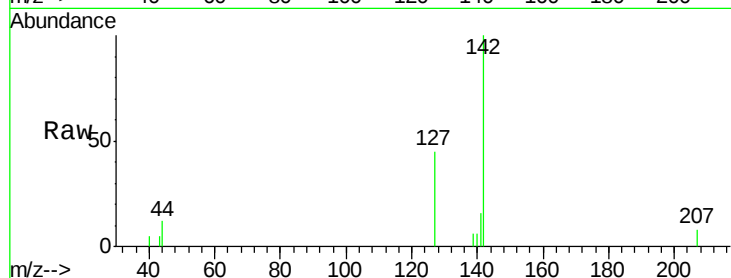
Tgt Ion:142 Resp: 11745

Ion Ratio Lower Upper

142 100

127 44.7 22.1 66.5

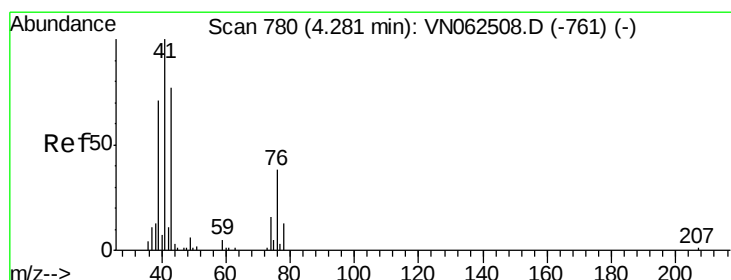
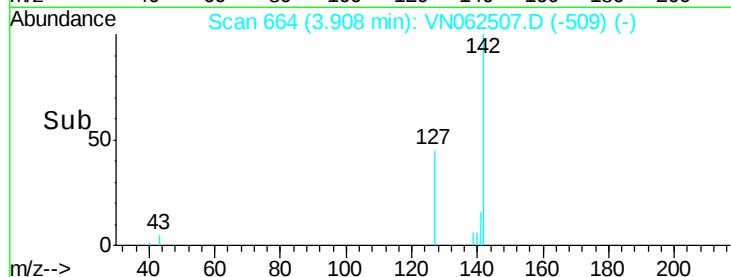
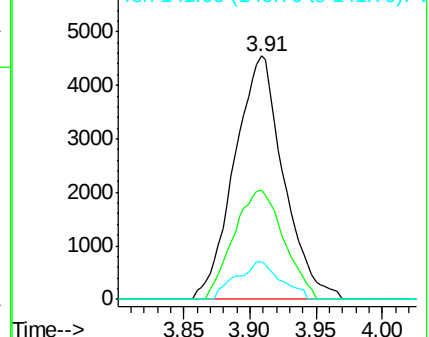
141 15.6 6.5 19.4



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#12

Methyl Acetate

Concen: 7.911 ug/l

RT: 4.28 min Scan# 780

Delta R.T. -0.00 min

Lab File: VN062507.D

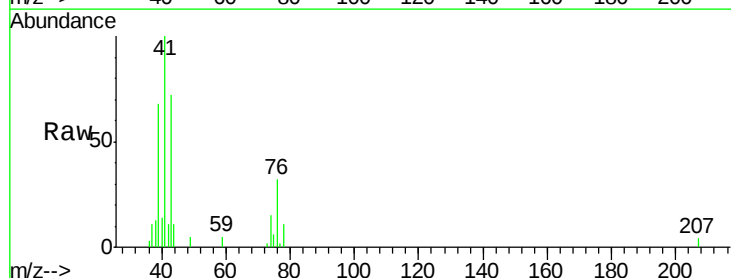
Acq: 13 Jul 2020 9:36

Tgt Ion: 43 Resp: 17929

Ion Ratio Lower Upper

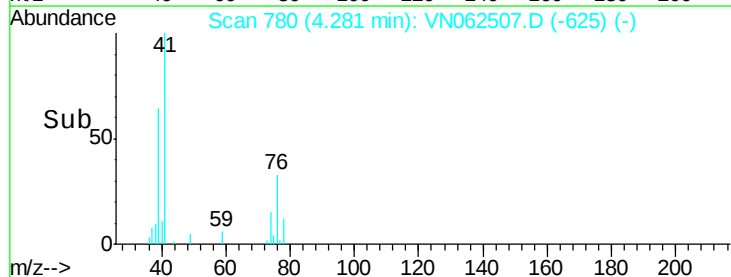
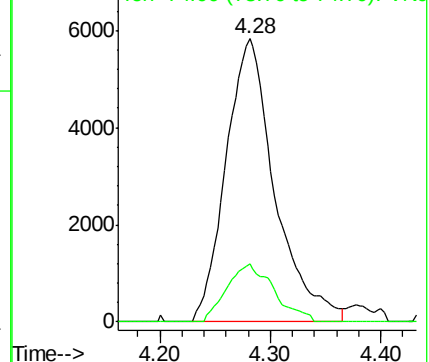
43 100

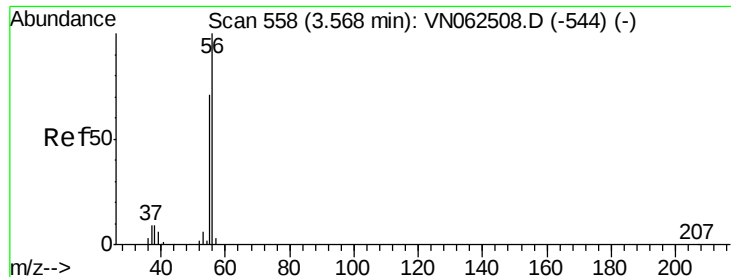
74 20.8 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 24.957 ug/l

RT: 3.57 min Scan# 559

Delta R.T. 0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

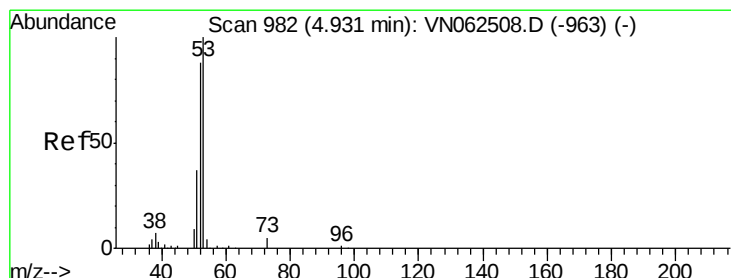
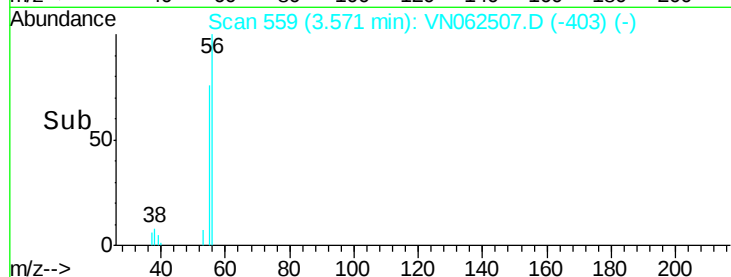
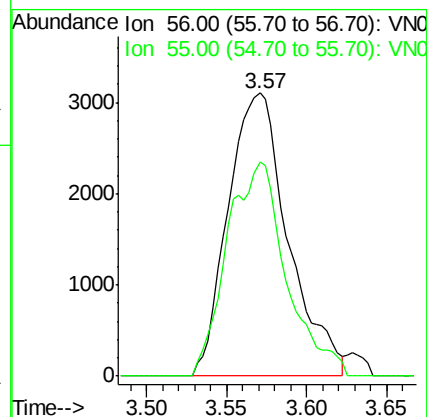
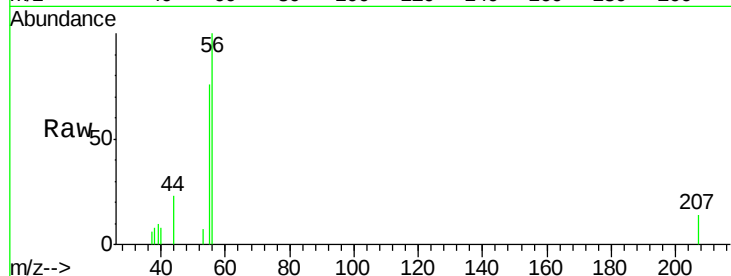
VSTDIC005

Tgt Ion: 56 Resp: 8001

Ion Ratio Lower Upper

56 100

55 26.8 56.0 84.0#



#14

Acrylonitrile

Concen: 33.542 ug/l

RT: 4.93 min Scan# 982

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

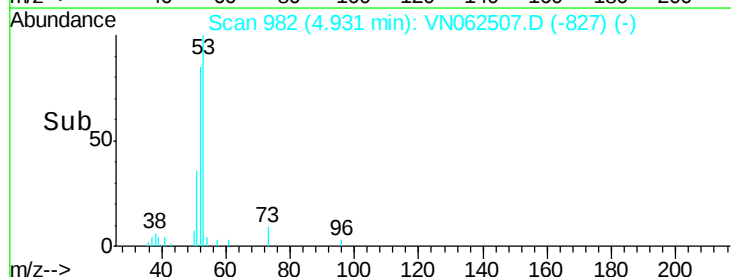
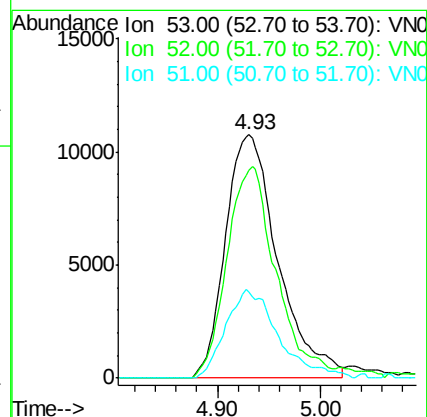
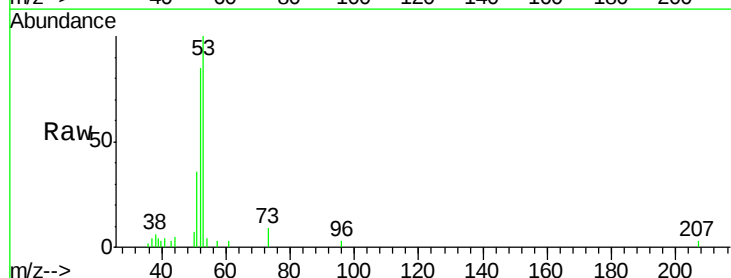
Tgt Ion: 53 Resp: 38027

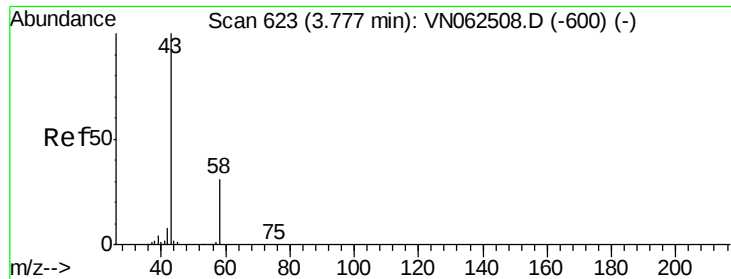
Ion Ratio Lower Upper

53 100

52 79.6 41.8 125.4

51 20.4 18.5 55.5





#15

Acetone

Concen: 33.013 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

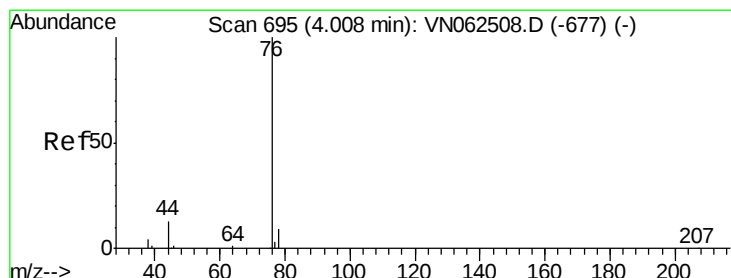
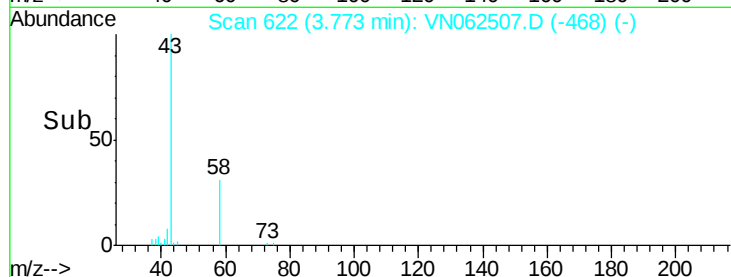
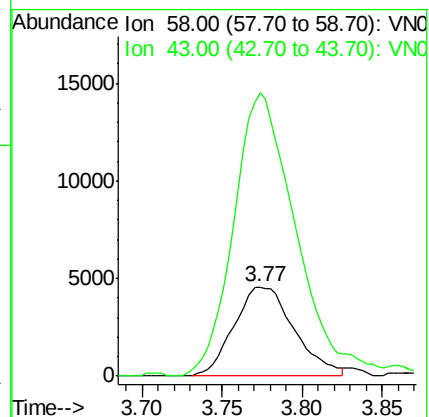
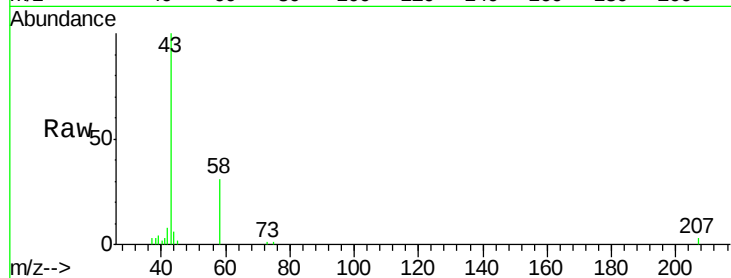
VSTDIC005

Tgt Ion: 58 Resp: 11836

Ion Ratio Lower Upper

58 100

43 310.1 261.1 391.7



#16

Carbon Disulfide

Concen: 7.766 ug/l

RT: 4.00 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN062507.D

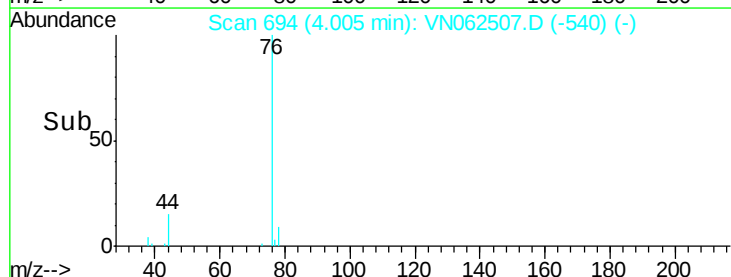
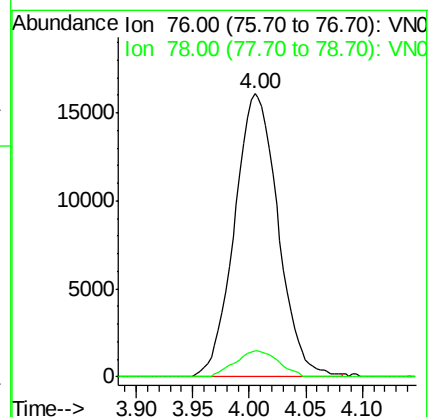
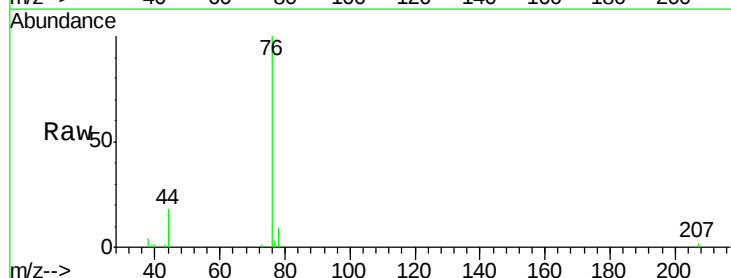
Acq: 13 Jul 2020 9:36

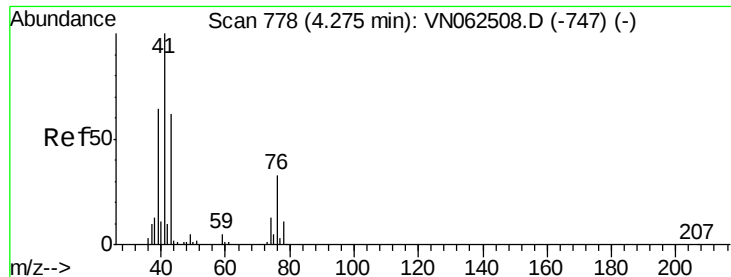
Tgt Ion: 76 Resp: 43254

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

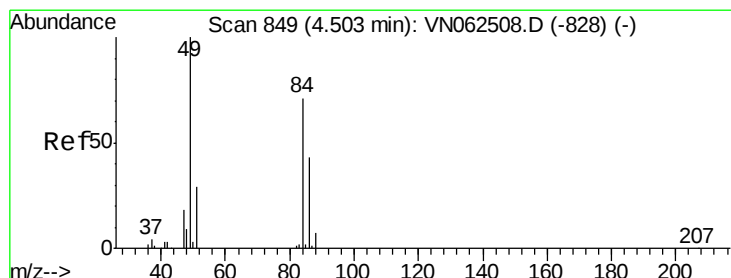
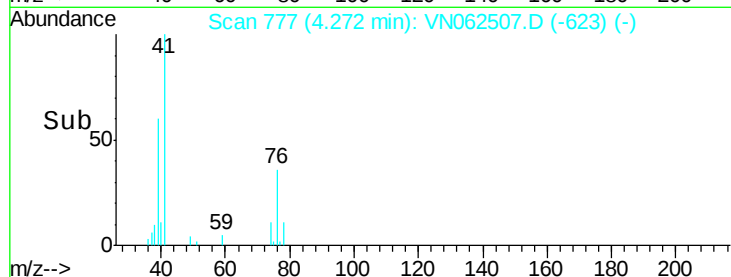
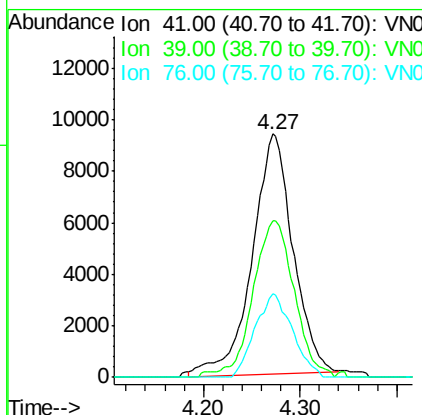
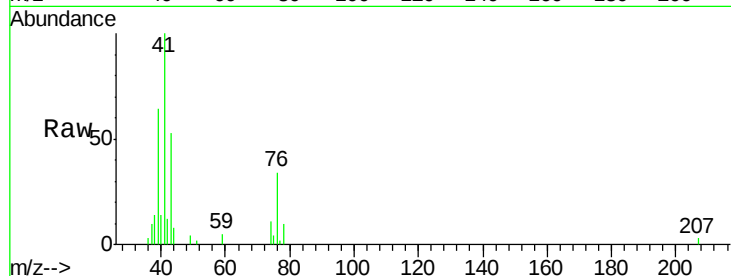




#17  
 Allyl chloride  
 Concen: 8.085 ug/l  
 RT: 4.27 min Scan# 777  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

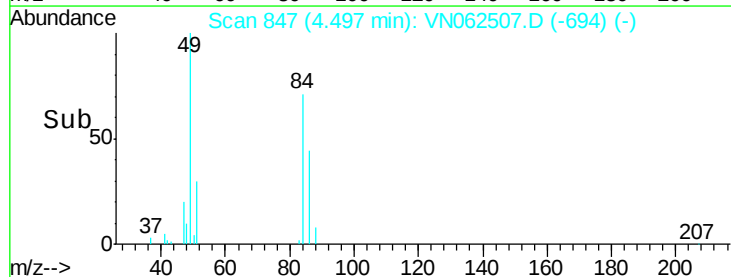
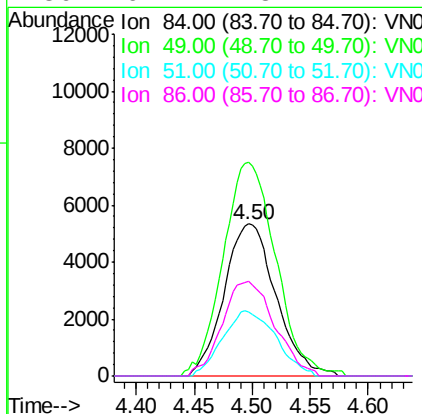
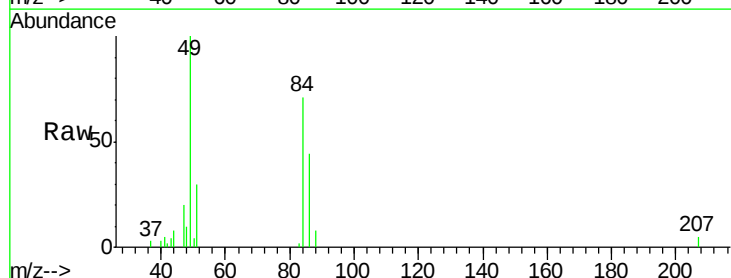
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

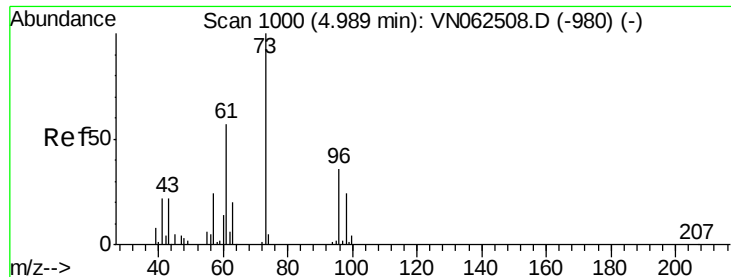
Tgt Ion: 41 Resp: 27333  
 Ion Ratio Lower Upper  
 41 100  
 39 65.9 31.9 95.5  
 76 35.3 16.6 49.8



#18  
 Methylene Chloride  
 Concen: 5.724 ug/l  
 RT: 4.50 min Scan# 847  
 Delta R.T. -0.01 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 84 Resp: 16618  
 Ion Ratio Lower Upper  
 84 100  
 49 137.6 112.1 168.1  
 51 42.4 33.0 49.4  
 86 62.1 48.2 72.4





#19

trans-1,2-Dichloroethene

Concen: 5.431 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

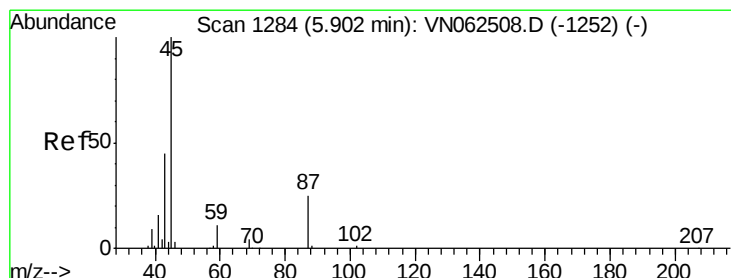
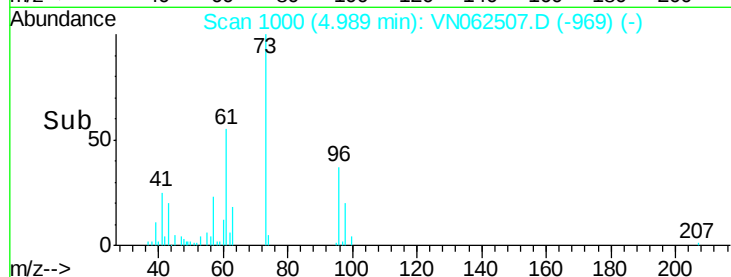
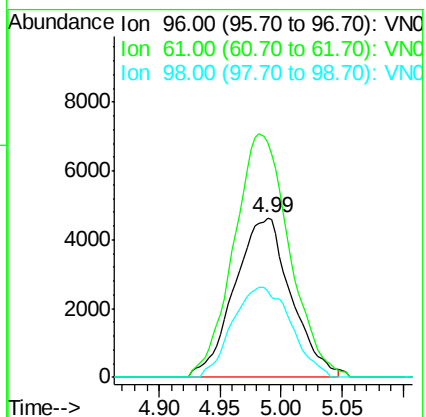
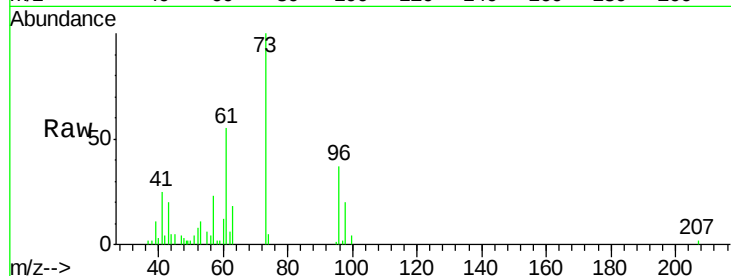
Tgt Ion: 96 Resp: 14925

Ion Ratio Lower Upper

96 100

61 147.3 125.7 188.5

98 53.8 54.1 81.1#



#20

Diisopropyl ether

Concen: 7.379 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Tgt Ion: 45 Resp: 56714

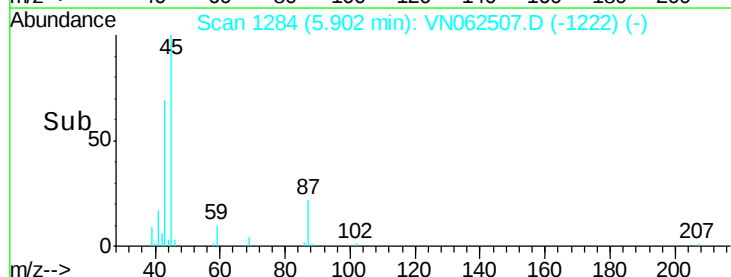
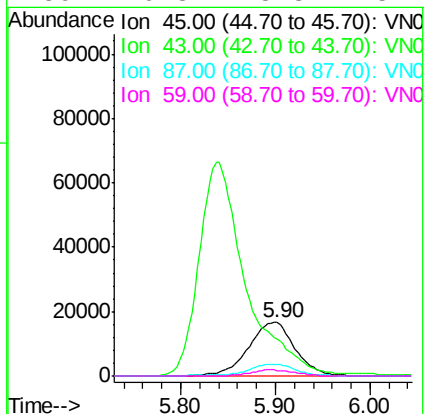
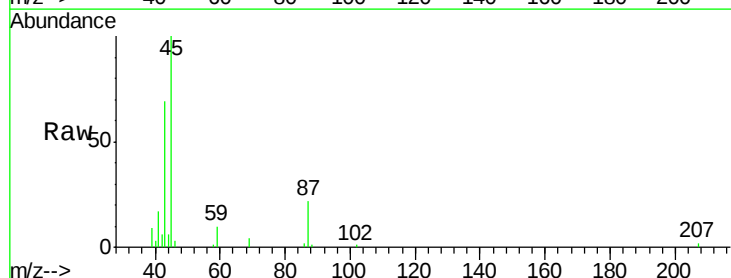
Ion Ratio Lower Upper

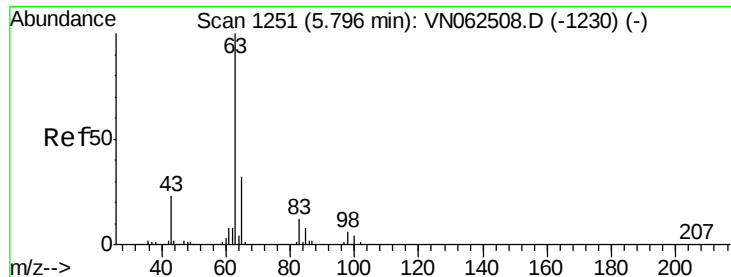
45 100

43 63.4 51.3 76.9

87 22.0 19.8 29.6

59 10.3 8.8 13.2





#21

1,1-Dichloroethane

Concen: 6.325 ug/l

RT: 5.79 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

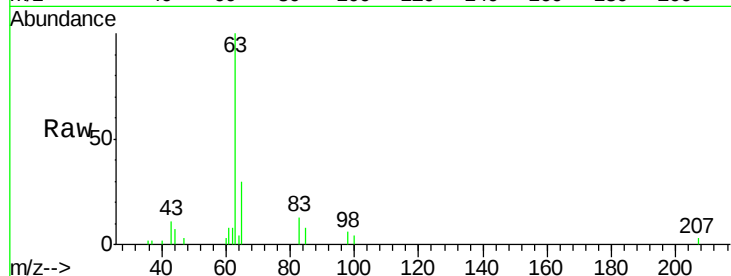
Tgt Ion: 63 Resp: 30132

Ion Ratio Lower Upper

63 100

98 5.8 2.8 8.4

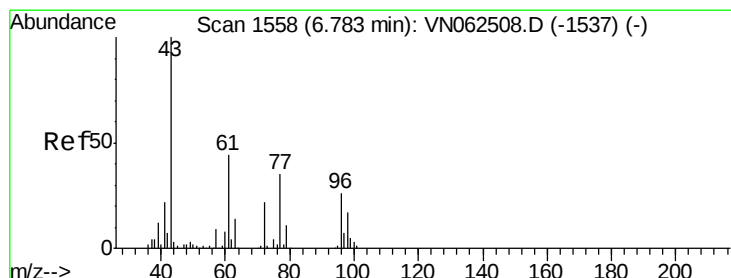
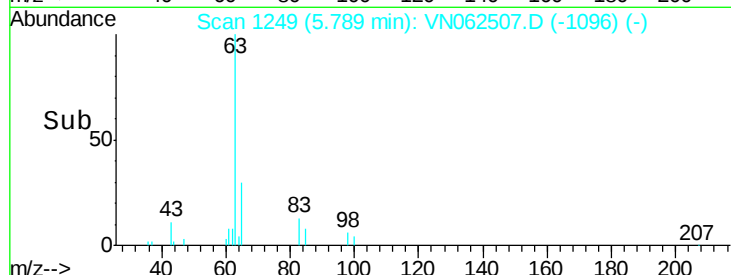
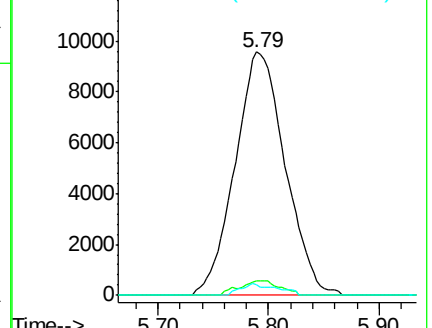
100 4.3 2.0 5.8



Abundance Ion 63.00 (62.70 to 63.70): VN062507.D (-1096) (-)

Ion 98.00 (97.70 to 98.70): VN062507.D (-1096) (-)

Ion 100.00 (99.70 to 100.70): VN062507.D (-1096) (-)



#22

cis-1,2-Dichloroethene

Concen: 5.068 ug/l

RT: 6.77 min Scan# 1555

Delta R.T. -0.01 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

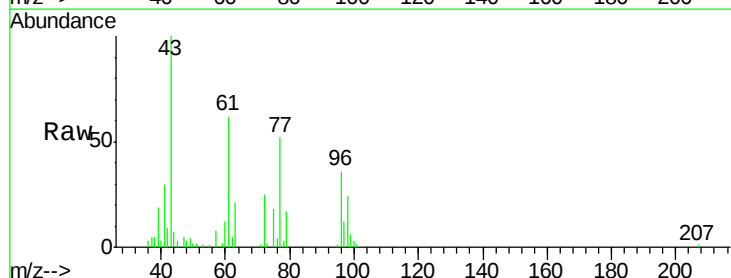
Tgt Ion: 96 Resp: 16324

Ion Ratio Lower Upper

96 100

61 171.2 134.9 202.3

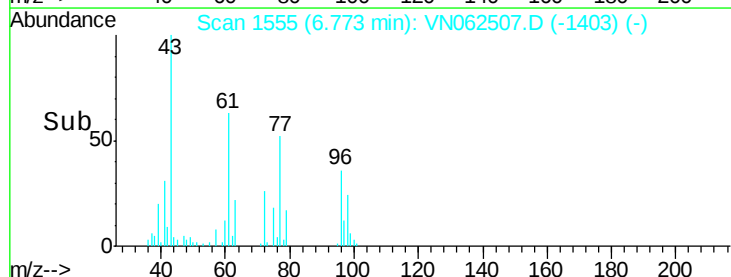
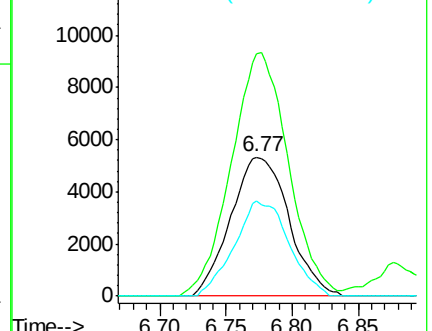
98 63.8 51.5 77.3

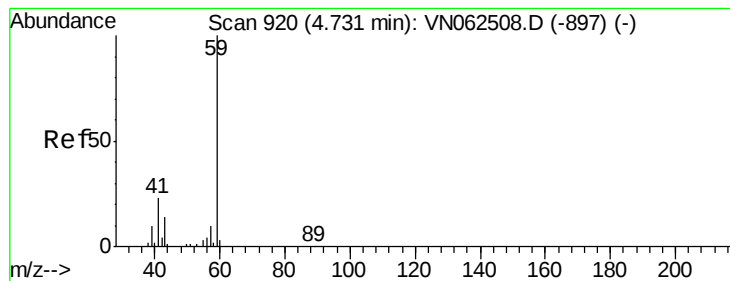


Abundance Ion 96.00 (95.70 to 96.70): VN062507.D (-1403) (-)

Ion 61.00 (60.70 to 61.70): VN062507.D (-1403) (-)

Ion 98.00 (97.70 to 98.70): VN062507.D (-1403) (-)





#23

tert-Butyl Alcohol

Concen: 30.033 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

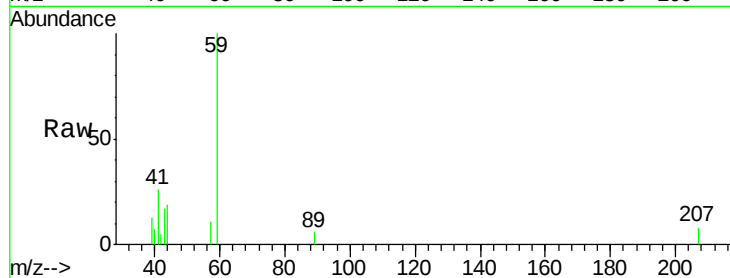
VSTDIC005

Tgt Ion: 59 Resp: 12812

Ion Ratio Lower Upper

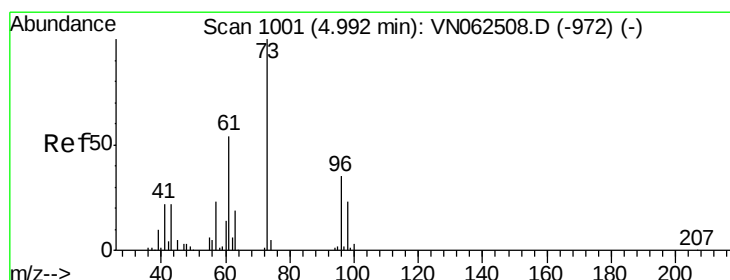
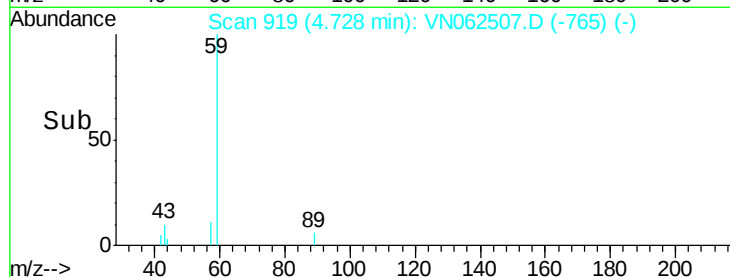
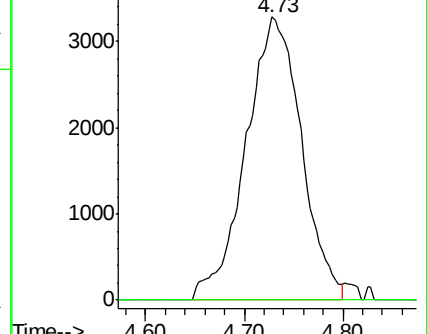
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN062508.D (-897) (-)

Ion 52.00 (51.70 to 52.70): VN062508.D (-897) (-)



#24

Methyl tert-Butyl Ether

Concen: 5.691 ug/l

RT: 4.99 min Scan# 999

Delta R.T. -0.01 min

Lab File: VN062507.D

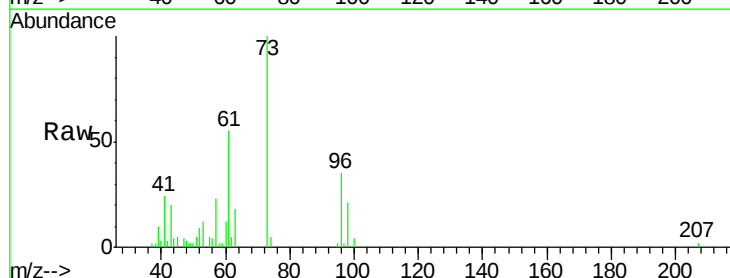
Acq: 13 Jul 2020 9:36

Tgt Ion: 73 Resp: 46747

Ion Ratio Lower Upper

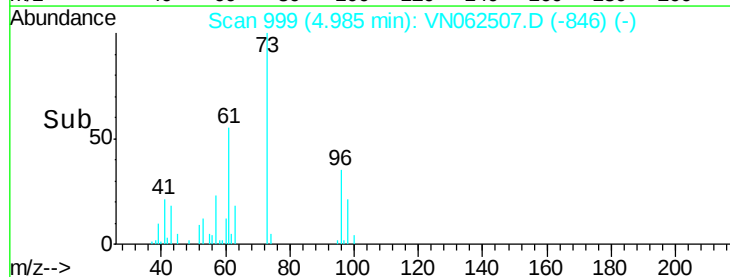
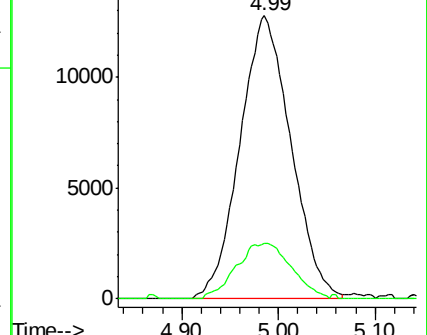
73 100

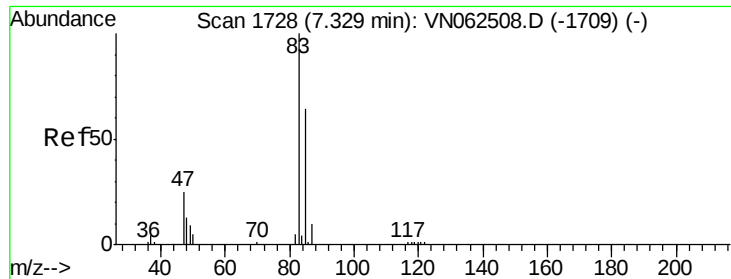
43 9.1 16.9 25.3#



Abundance Ion 73.00 (72.70 to 73.70): VN062508.D (-972) (-)

Ion 43.00 (42.70 to 43.70): VN062508.D (-972) (-)





#25

Chloroform

Concen: 5.445 ug/l

RT: 7.32 min Scan# 1726

Delta R.T. -0.01 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

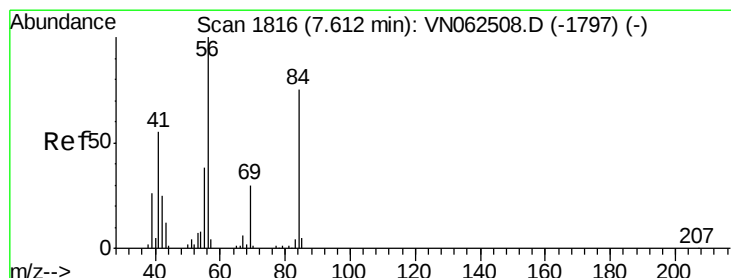
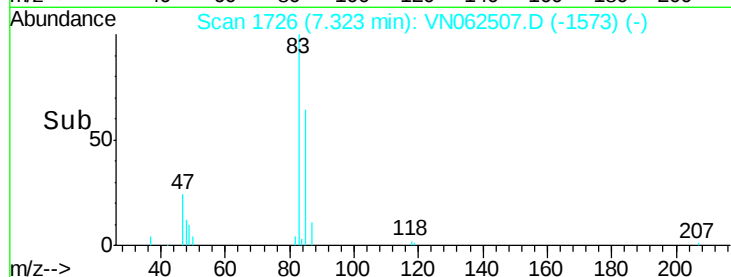
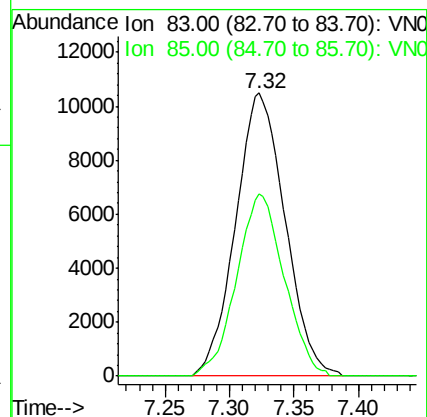
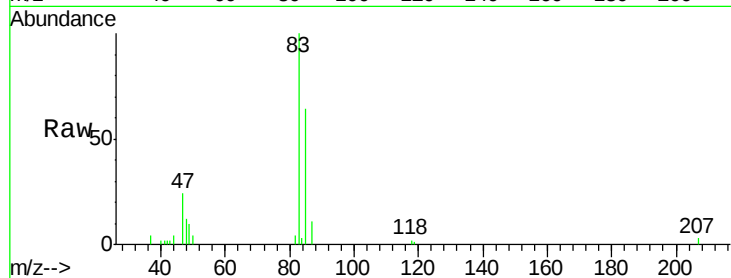
VSTDIC005

Tgt Ion: 83 Resp: 27987

Ion Ratio Lower Upper

83 100

85 64.3 51.0 76.4



#26

Cyclohexane

Concen: 6.701 ug/l

RT: 7.61 min Scan# 1815

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

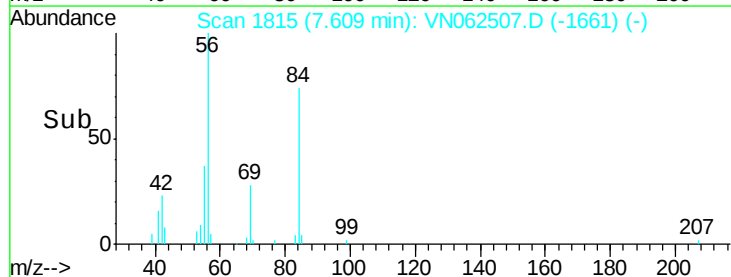
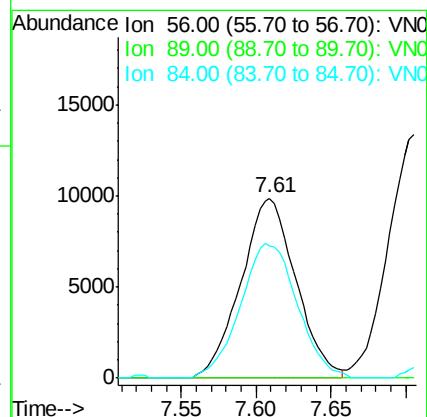
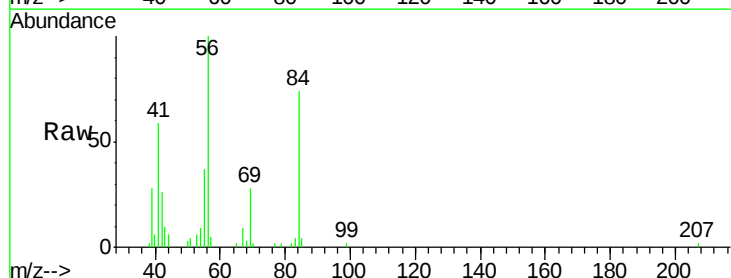
Tgt Ion: 56 Resp: 25247

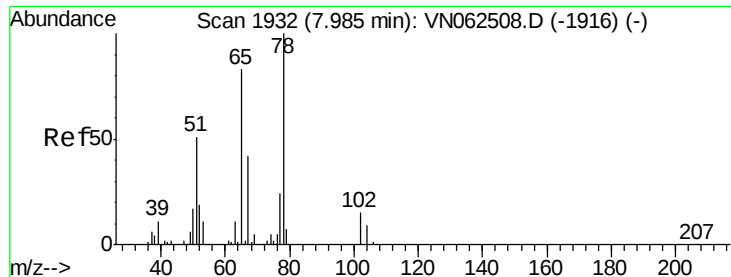
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 77.6 61.1 91.7

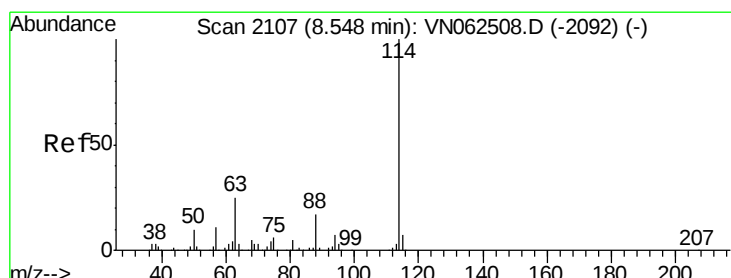
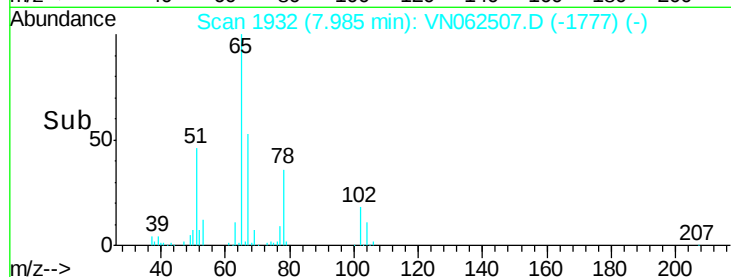
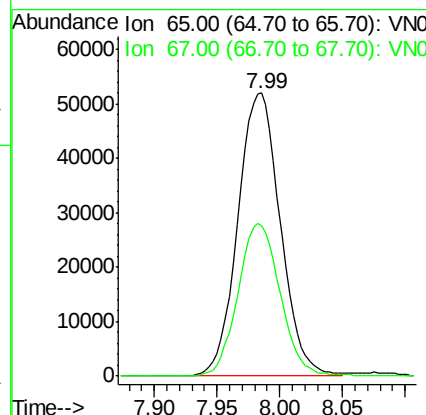
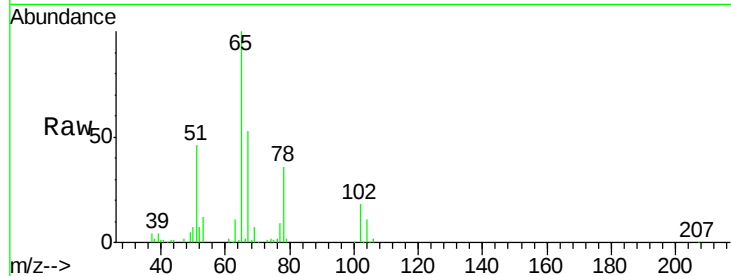




#27  
 1,2-Dichloroethane-d4  
 Concen: 38.580 ug/l  
 RT: 7.99 min Scan# 1932  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

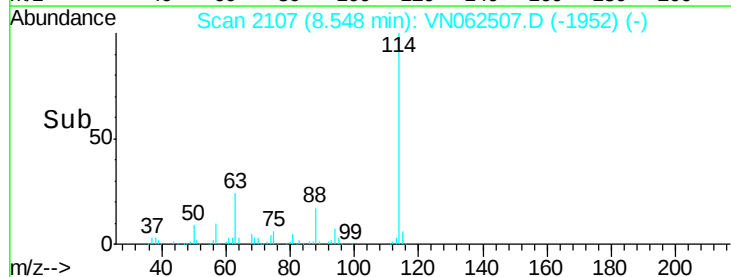
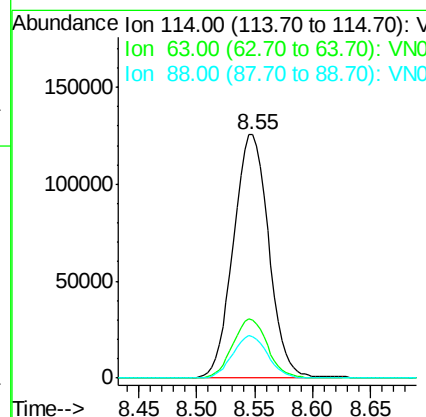
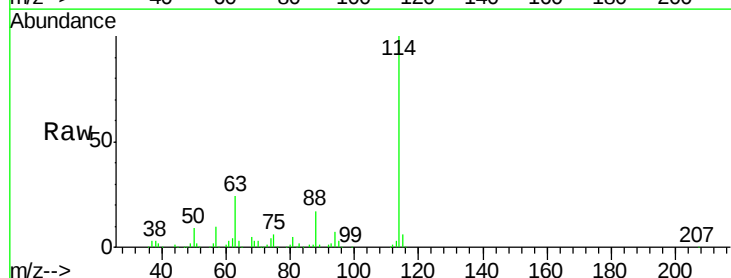
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

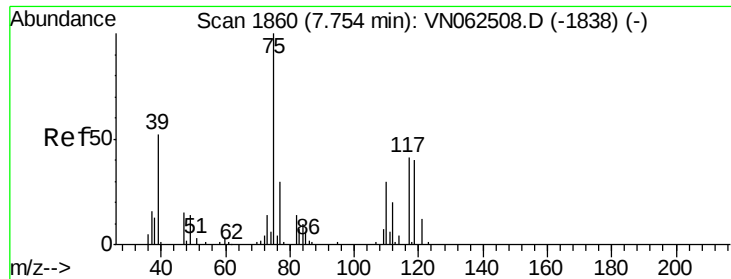
Tgt Ion: 65 Resp: 122477  
 Ion Ratio Lower Upper  
 65 100  
 67 53.3 41.7 62.5



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.55 min Scan# 2107  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 114 Resp: 265983  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 19.4 29.0  
 88 17.2 13.5 20.3

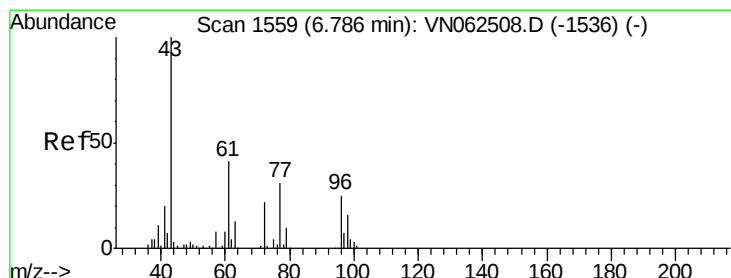
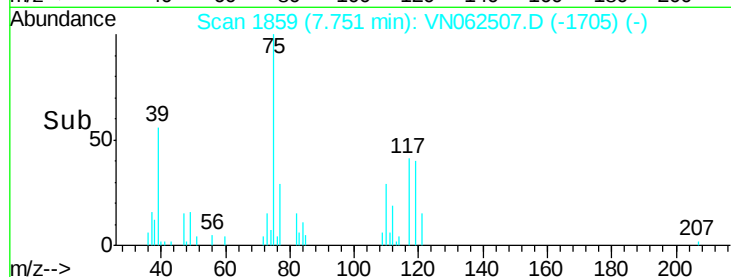
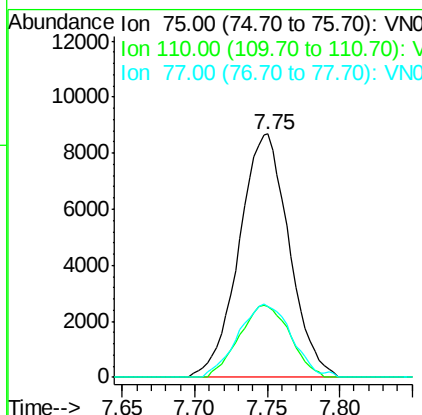
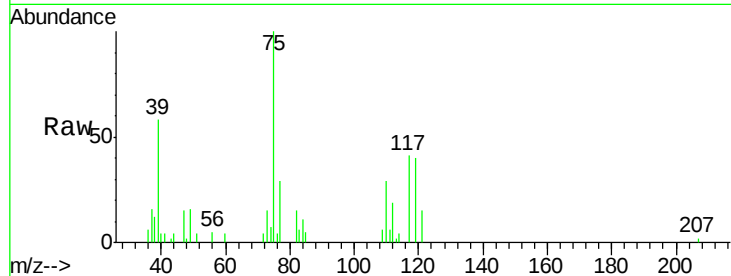




#29  
 1,1-Dichloropropene  
 Concen: 5.478 ug/l  
 RT: 7.75 min Scan# 1859  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

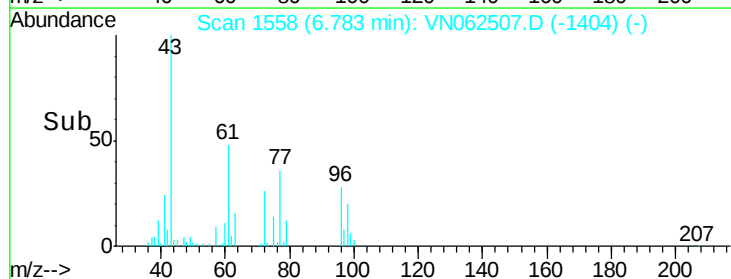
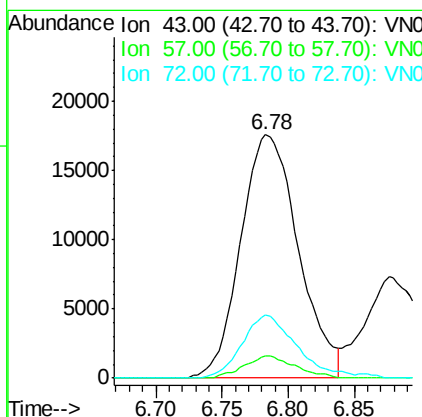
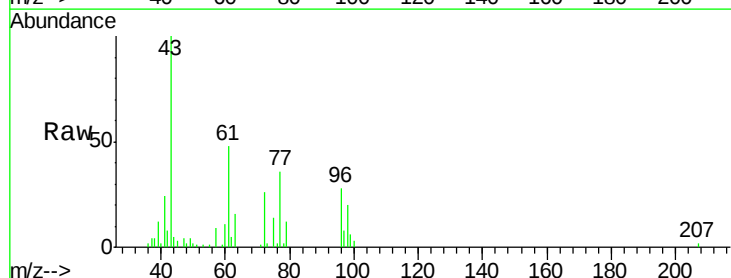
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

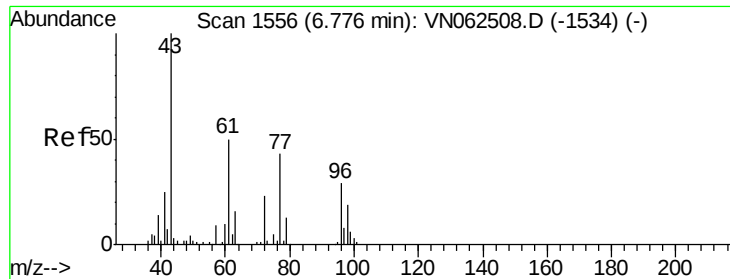
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 29.9  | 0.0   | 62.4  |
| 77      | 31.9  | 0.0   | 62.8  |



#30  
 2-Butanone  
 Concen: 35.172 ug/l  
 RT: 6.78 min Scan# 1558  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.0   | 6.6   | 9.8   |
| 72      | 23.6  | 18.5  | 27.7  |

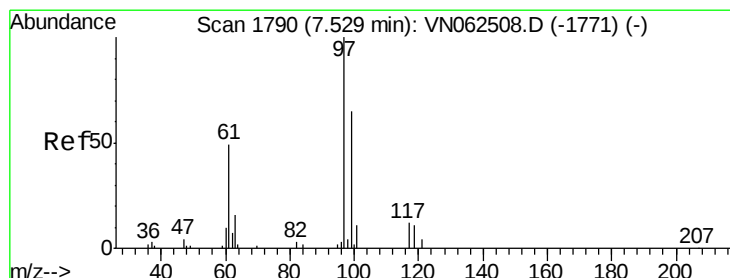
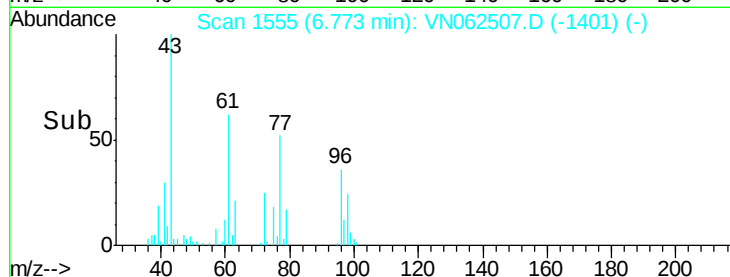
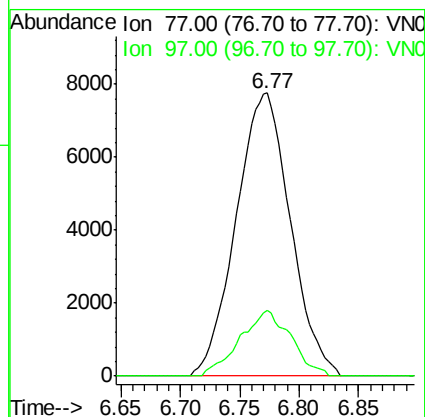
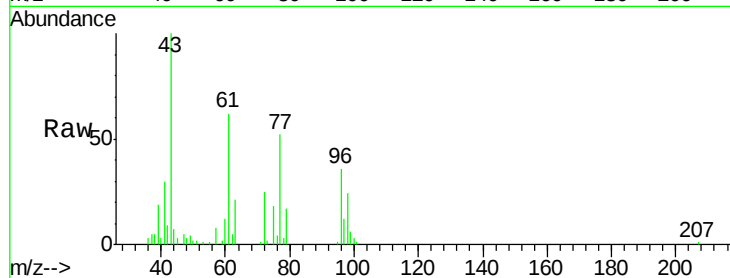




#31  
 2,2-Dichloropropane  
 Concen: 5.518 ug/l  
 RT: 6.77 min Scan# 1555  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

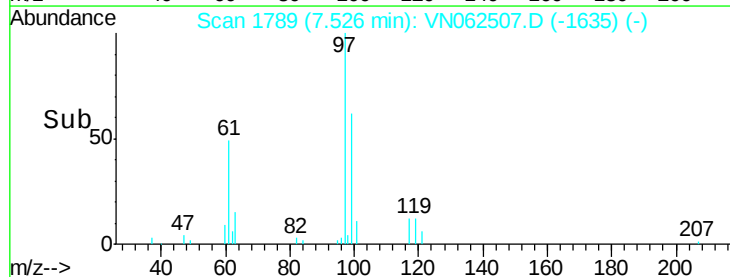
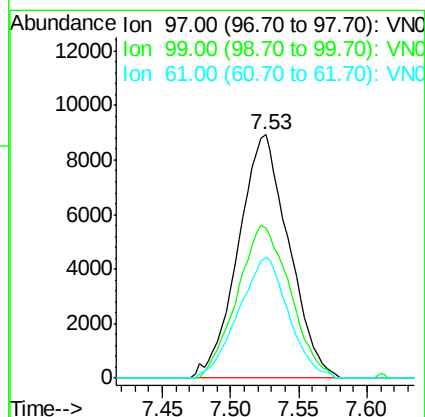
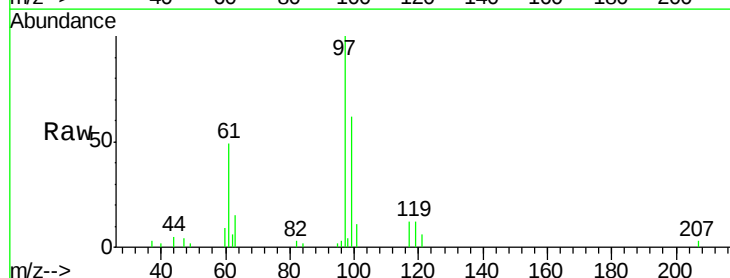
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

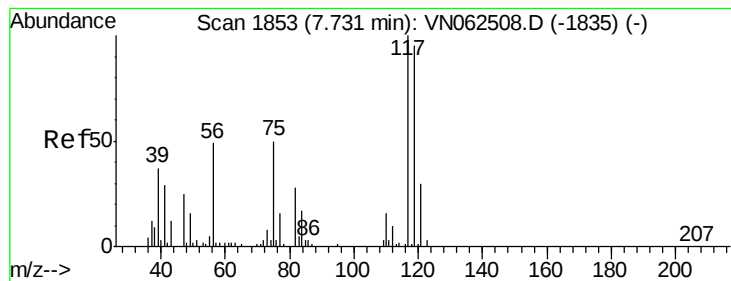
Tgt Ion: 77 Resp: 24495  
 Ion Ratio Lower Upper  
 77 100  
 97 16.8 8.6 12.8#



#32  
 1,1,1-Trichloroethane  
 Concen: 4.899 ug/l  
 RT: 7.53 min Scan# 1789  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 97 Resp: 22988  
 Ion Ratio Lower Upper  
 97 100  
 99 65.4 51.8 77.8  
 61 48.9 39.4 59.0





#33

Carbon Tetrachloride

Concen: 5.122 ug/l

RT: 7.72 min Scan# 1851

Delta R.T. -0.01 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

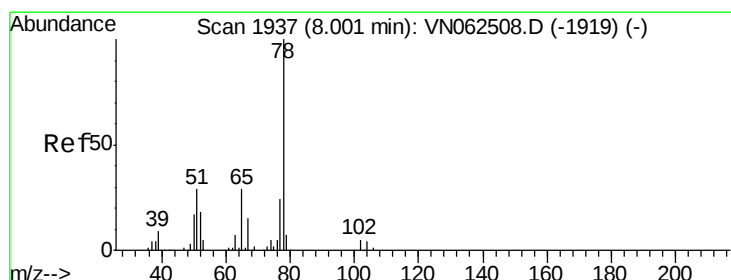
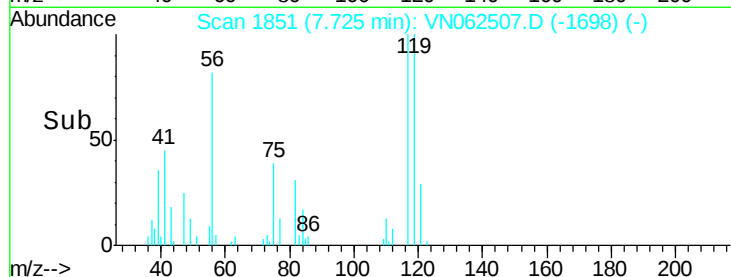
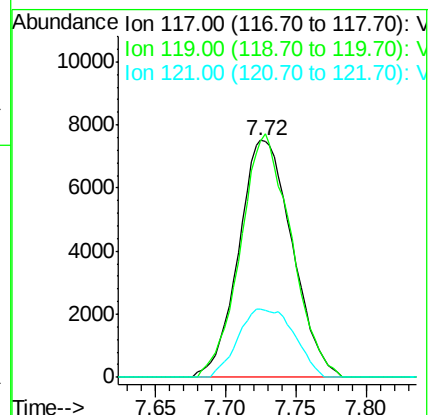
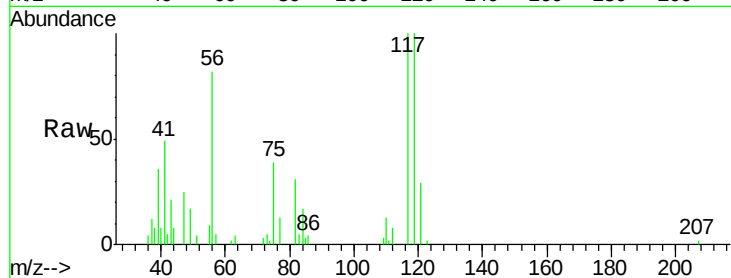
Tgt Ion: 117 Resp: 19898

Ion Ratio Lower Upper

117 100

119 99.9 76.2 114.4

121 29.0 23.8 35.6



#34

Benzene

Concen: 5.385 ug/l

RT: 8.00 min Scan# 1936

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

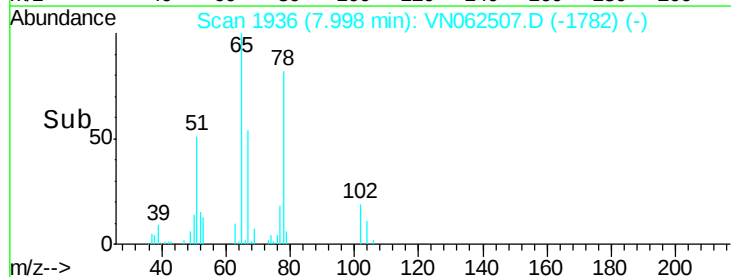
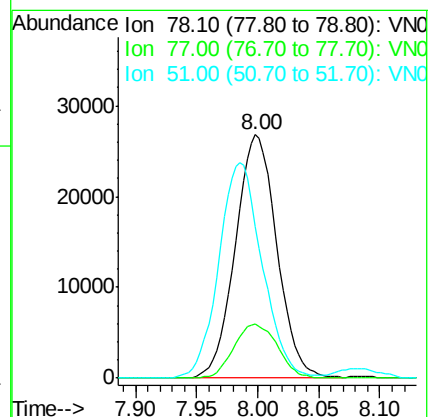
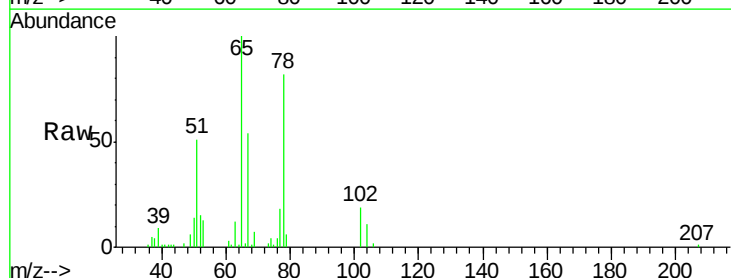
Tgt Ion: 78 Resp: 63277

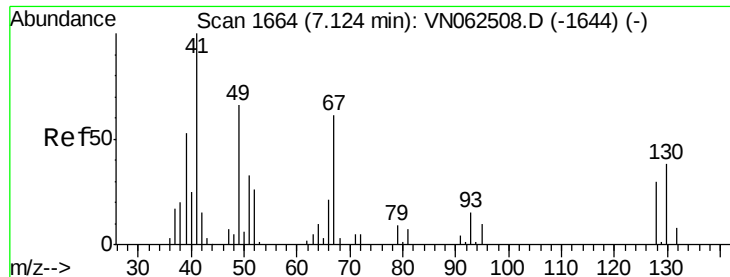
Ion Ratio Lower Upper

78 100

77 22.1 18.9 28.3

51 59.3 23.1 34.7#

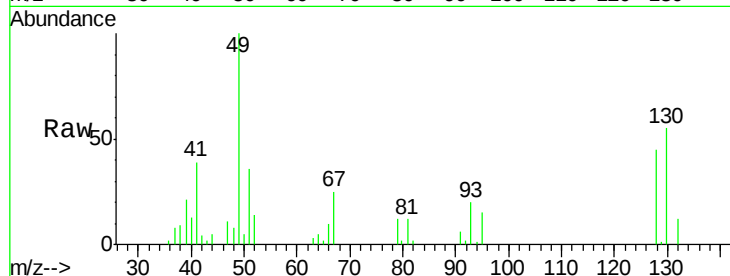




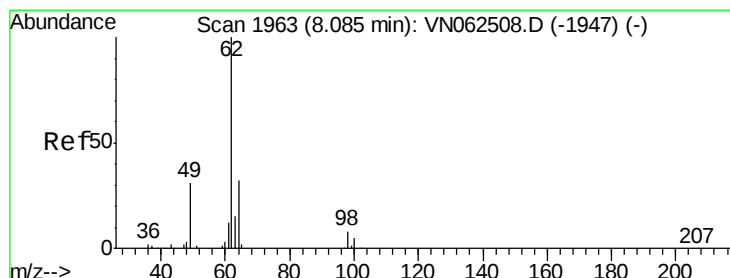
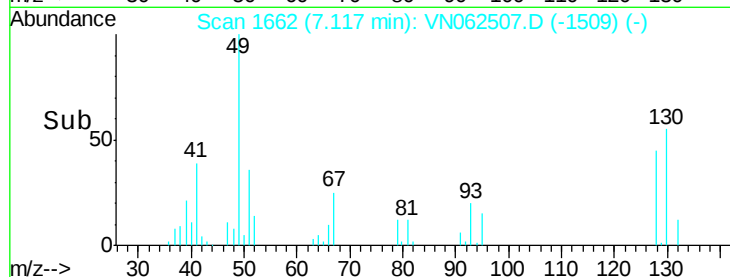
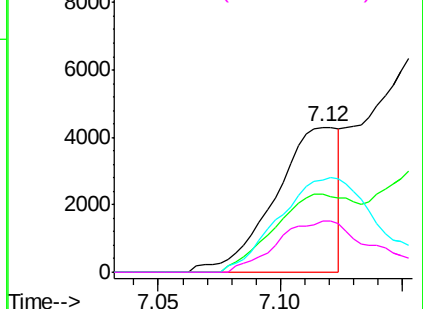
#35  
Methacrylonitrile  
Concen: 5.772 ug/l  
RT: 7.12 min Scan# 1662  
Delta R.T. -0.01 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 7754  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 53.4  | 26.5  | 79.5  |
| 67       | 63.9  | 30.7  | 92.1  |
| 52       | 35.1  | 13.0  | 39.0  |

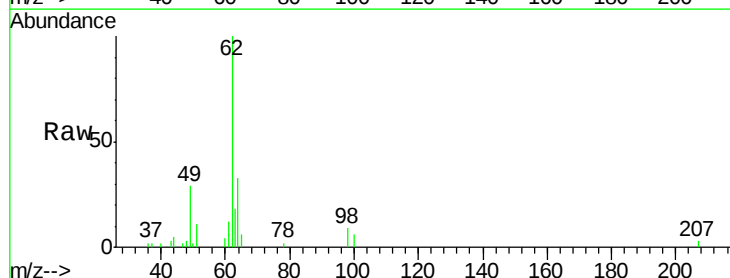


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0  
Ion 67.00 (66.70 to 67.70): VN0  
Ion 52.00 (51.70 to 52.70): VN0

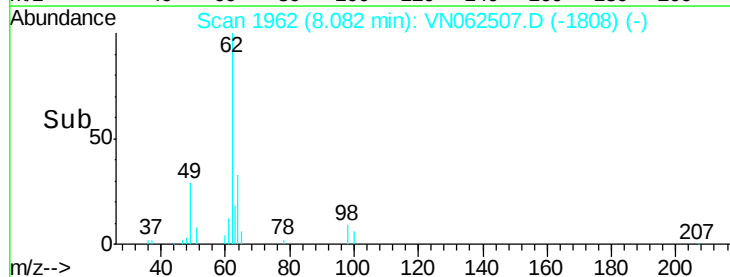
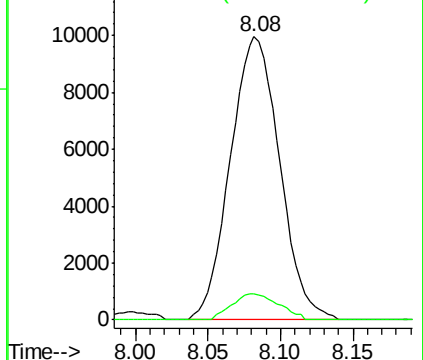


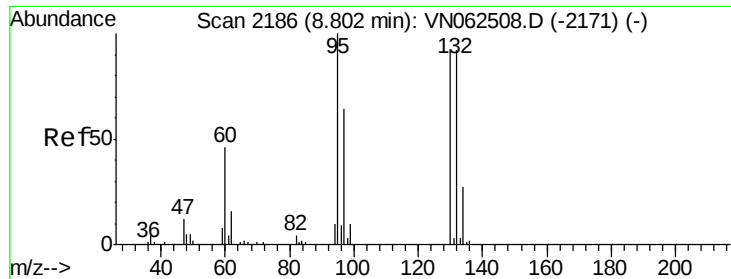
#36  
1,2-Dichloroethane  
Concen: 6.038 ug/l  
RT: 8.08 min Scan# 1962  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 23576 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.8   | 6.6   | 9.8   |



Abundance Ion 62.00 (61.70 to 62.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

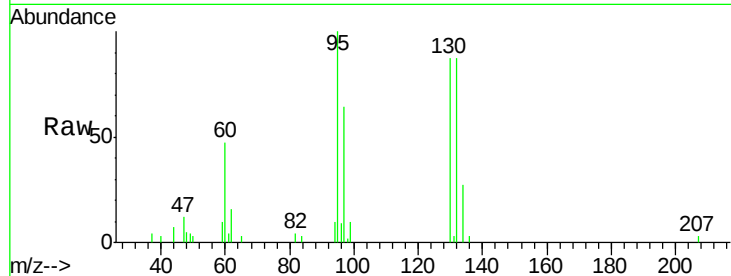




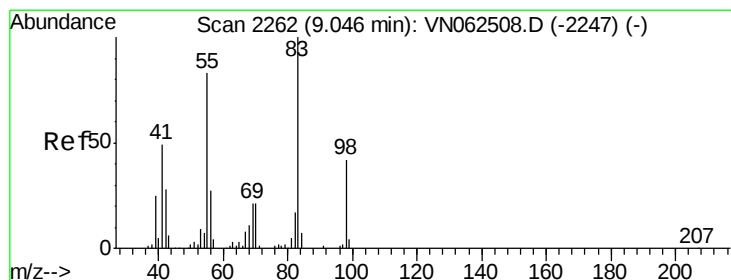
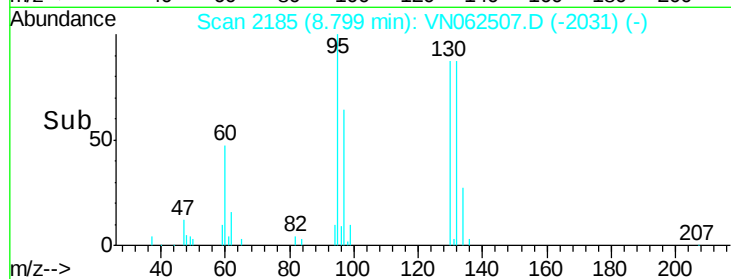
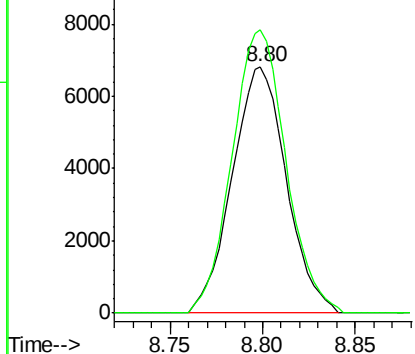
#37  
 Trichloroethene  
 Concen: 4.038 ug/l  
 RT: 8.80 min Scan# 2185  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Tgt Ion: 130 Resp: 13876  
 Ion Ratio Lower Upper  
 130 100  
 95 114.7 86.5 129.7

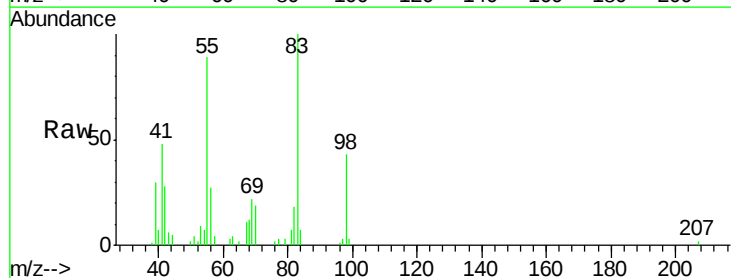


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VN0

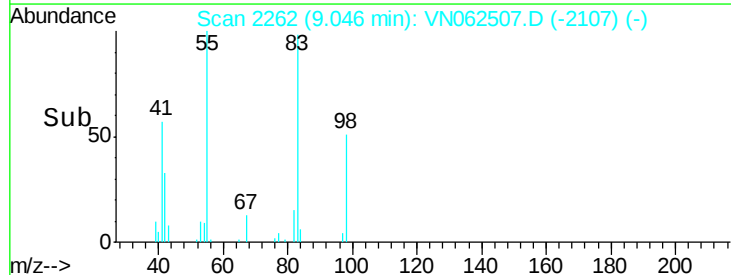
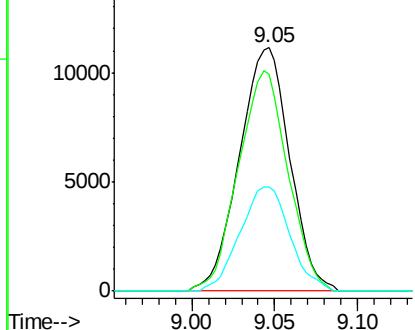


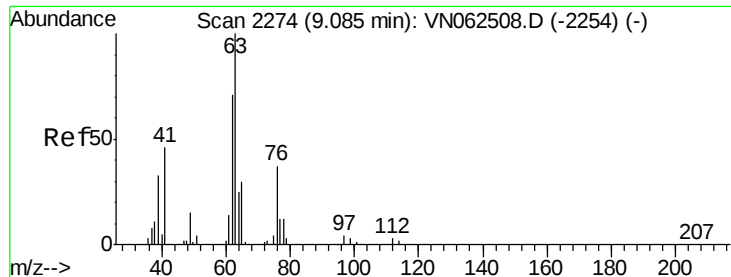
#38  
 Methylcyclohexane  
 Concen: 5.552 ug/l  
 RT: 9.05 min Scan# 2262  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 83 Resp: 23511  
 Ion Ratio Lower Upper  
 83 100  
 55 88.9 42.8 128.3  
 98 42.6 21.9 65.7



Abundance Ion 83.00 (82.70 to 83.70): VN0  
 Ion 55.00 (54.70 to 55.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0

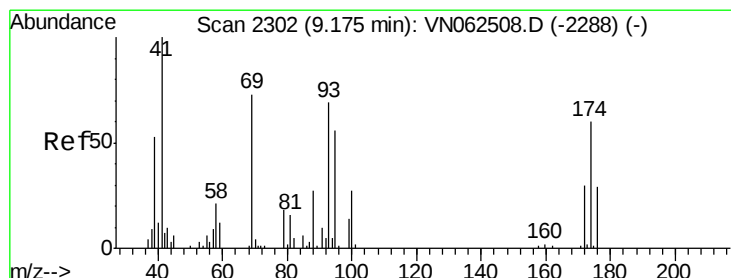
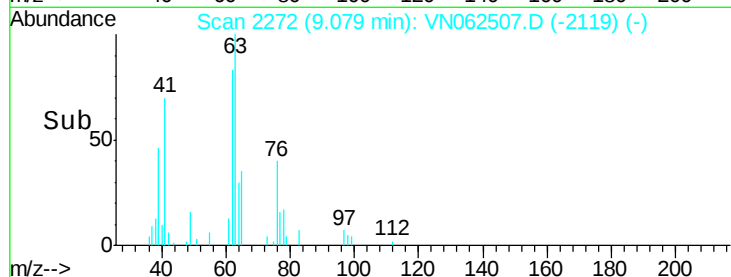
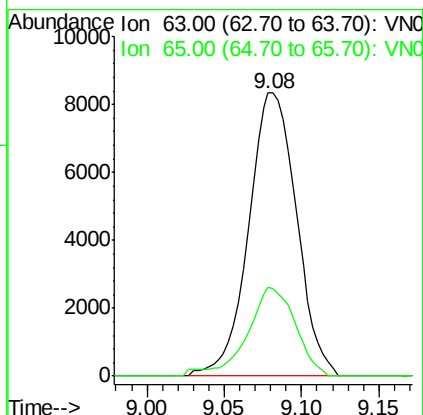
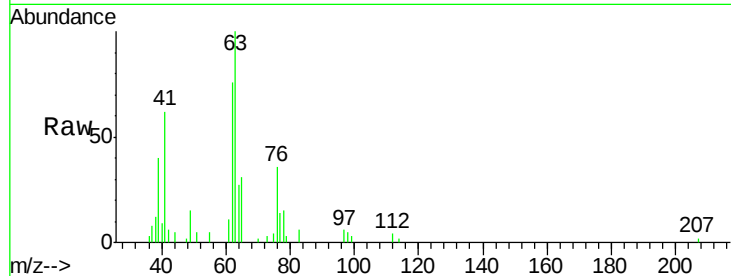




#39  
 1,2-Dichloropropane  
 Concen: 6.100 ug/l  
 RT: 9.08 min Scan# 2272  
 Delta R.T. -0.01 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

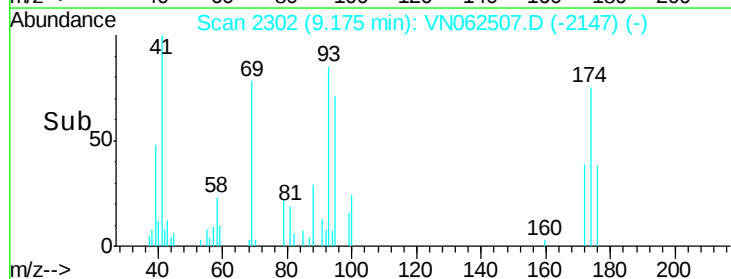
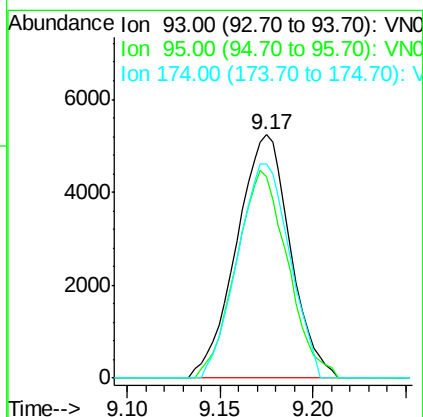
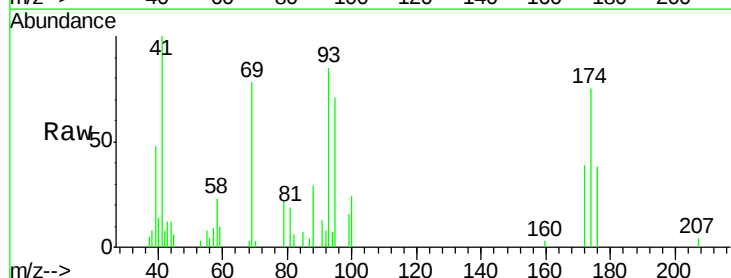
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

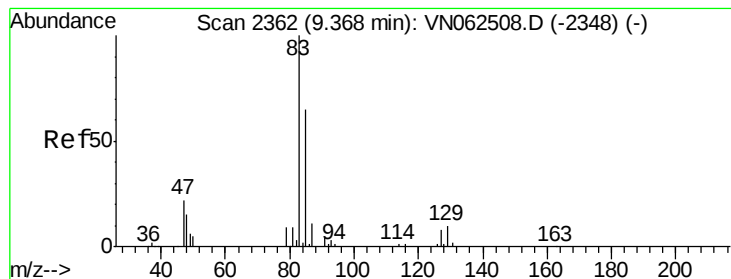
Tgt Ion: 63 Resp: 18001  
 Ion Ratio Lower Upper  
 63 100  
 65 31.5 24.2 36.4



#40  
 Dibromomethane  
 Concen: 5.063 ug/l  
 RT: 9.17 min Scan# 2302  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 93 Resp: 10521  
 Ion Ratio Lower Upper  
 93 100  
 95 81.9 0.0 161.2  
 174 85.6 0.0 178.0





#41

Bromodichloromethane

Concen: 5.090 ug/l

RT: 9.37 min Scan# 2362

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC005

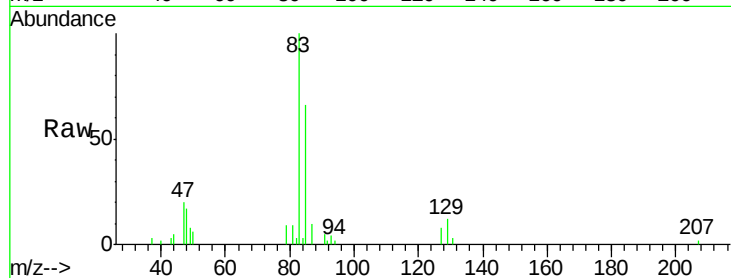
Tgt Ion: 83 Resp: 21649

Ion Ratio Lower Upper

83 100

85 66.4 51.6 77.4

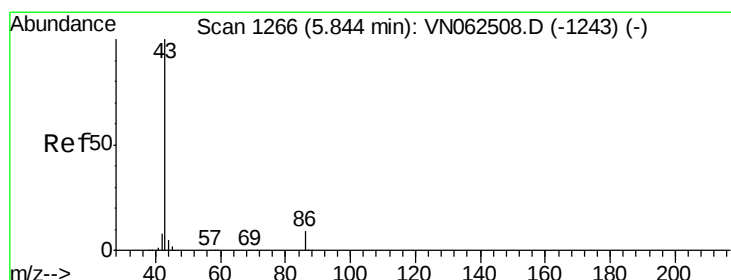
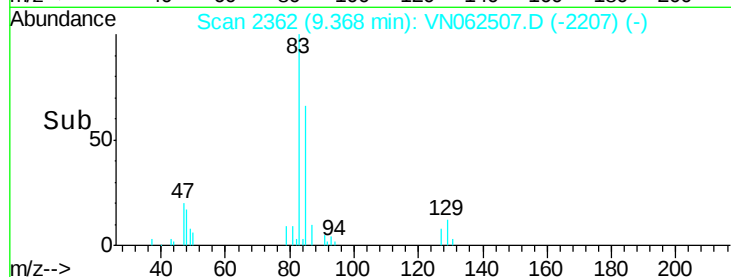
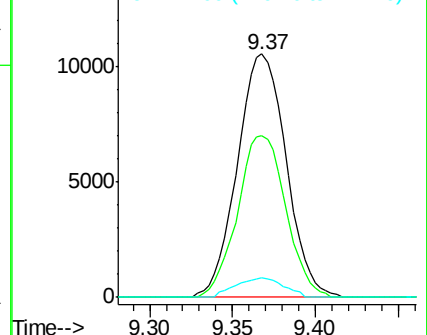
127 7.8 6.3 9.5



Abundance Ion 83.00 (82.70 to 83.70): VN062507.D (-2207) (-)

Ion 85.00 (84.70 to 85.70): VN062507.D (-2207) (-)

Ion 127.00 (126.70 to 127.70): VN062507.D (-2207) (-)



#42

Vinyl Acetate

Concen: 36.822 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VN062507.D

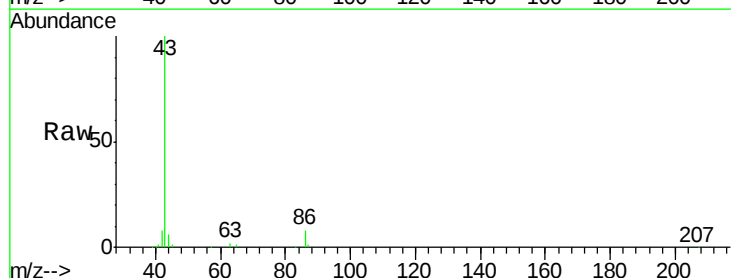
Acq: 13 Jul 2020 9:36

Tgt Ion: 43 Resp: 227509

Ion Ratio Lower Upper

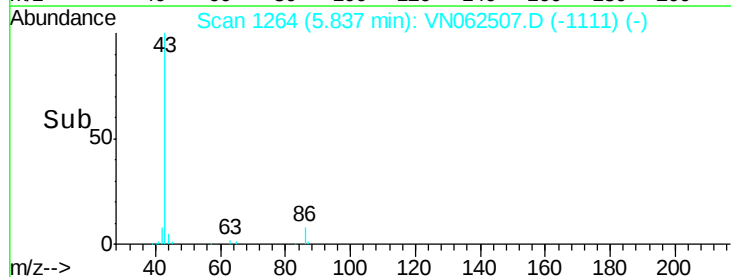
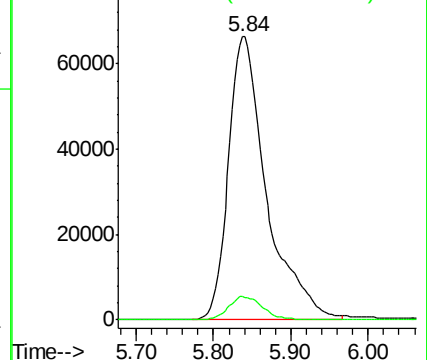
43 100

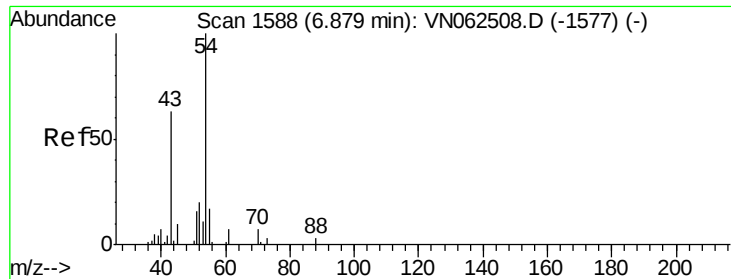
86 7.4 6.1 9.1



Abundance Ion 43.00 (42.70 to 43.70): VN062507.D (-1111) (-)

Ion 86.00 (85.70 to 86.70): VN062507.D (-1111) (-)





#43

Ethyl Acetate

Concen: 7.211 ug/l

RT: 6.88 min Scan# 1587

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

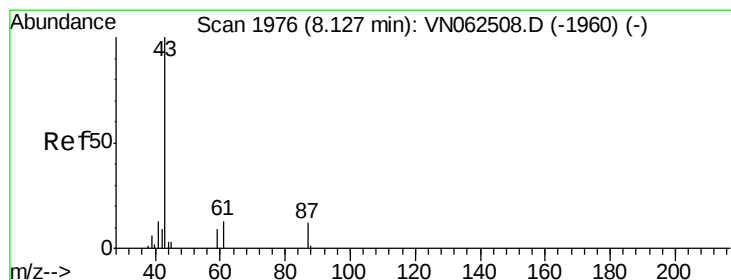
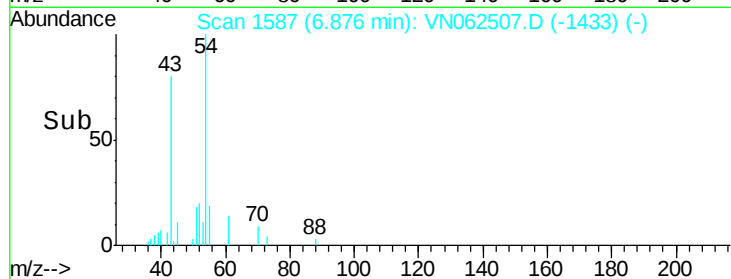
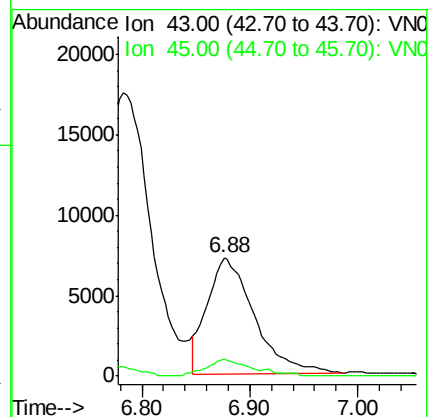
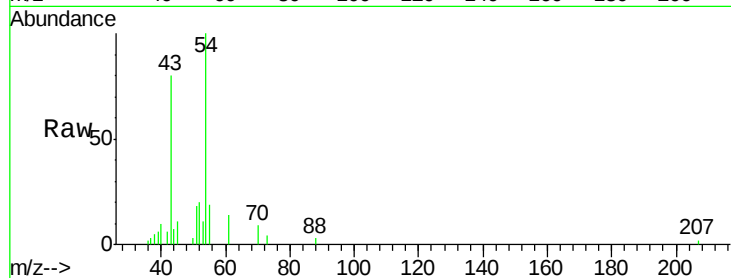
VSTDIC005

Tgt Ion: 43 Resp: 22074

Ion Ratio Lower Upper

43 100

45 11.7 10.2 15.4



#44

Isopropyl Acetate

Concen: 6.780 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN062507.D

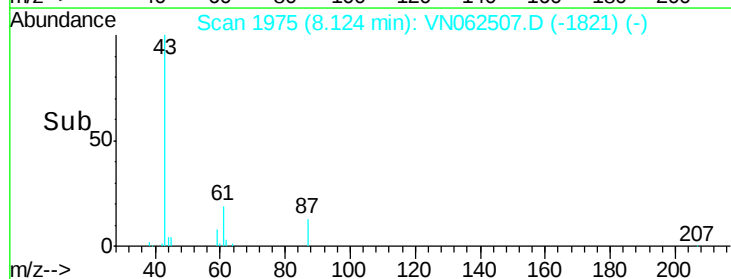
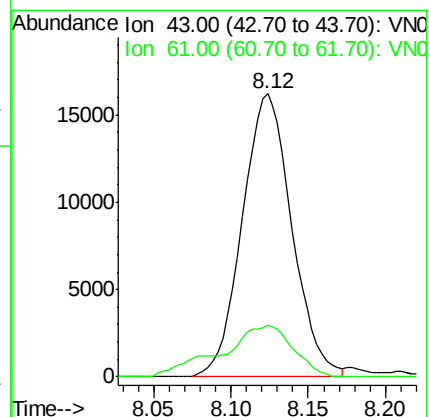
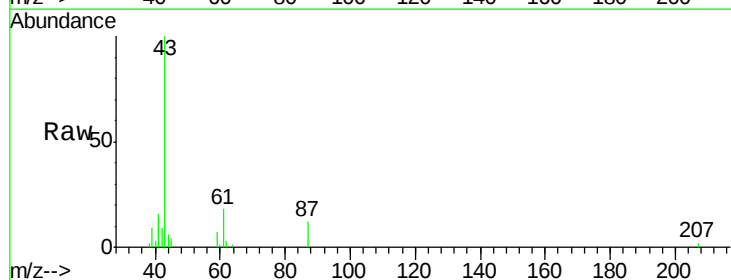
Acq: 13 Jul 2020 9:36

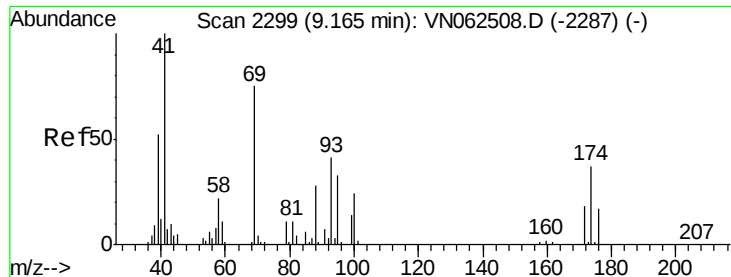
Tgt Ion: 43 Resp: 36102

Ion Ratio Lower Upper

43 100

61 19.2 14.7 22.1

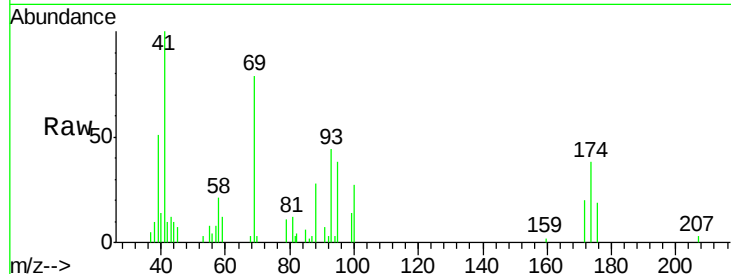




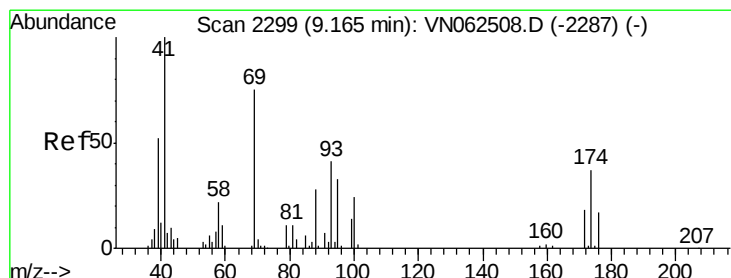
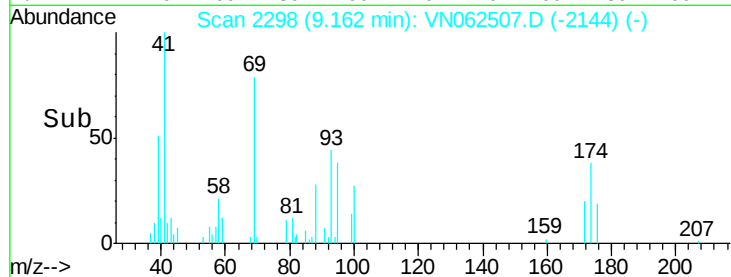
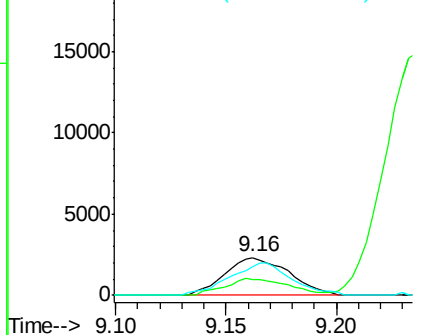
#45  
 1,4-Dioxane  
 Concen: 94.239 ug/l  
 RT: 9.16 min Scan# 2298  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

Tgt Ion: 88 Resp: 4702  
 Ion Ratio Lower Upper  
 88 100  
 43 43.2 29.2 43.8  
 58 82.8 62.2 93.4

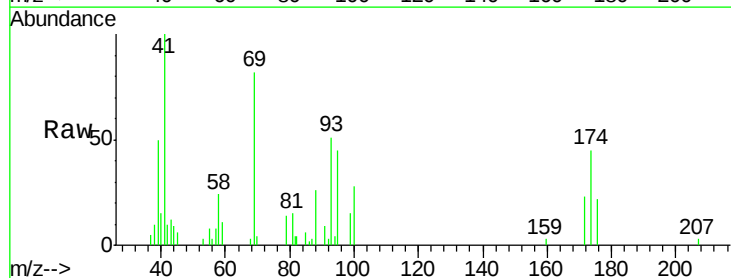


Abundance Ion 88.00 (87.70 to 88.70): VN0  
 Ion 43.00 (42.70 to 43.70): VN0  
 Ion 58.00 (57.70 to 58.70): VN0

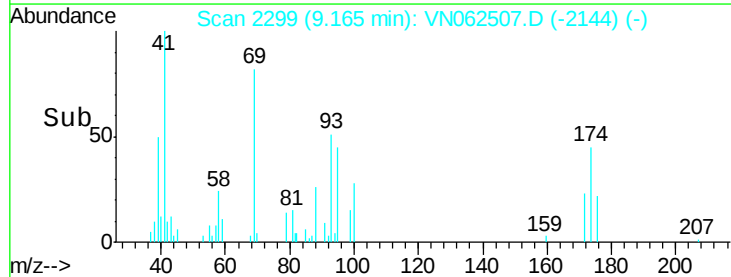
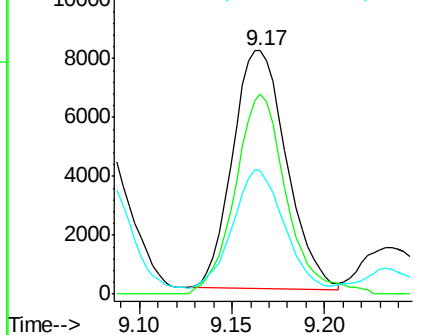


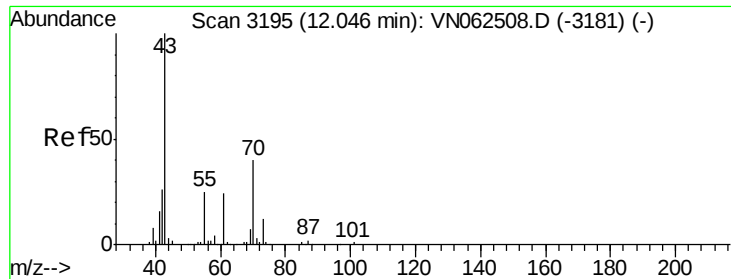
#46  
 Methyl methacrylate  
 Concen: 6.823 ug/l  
 RT: 9.17 min Scan# 2299  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 41 Resp: 16354  
 Ion Ratio Lower Upper  
 41 100  
 69 84.7 37.4 112.2  
 39 49.6 25.9 77.6



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

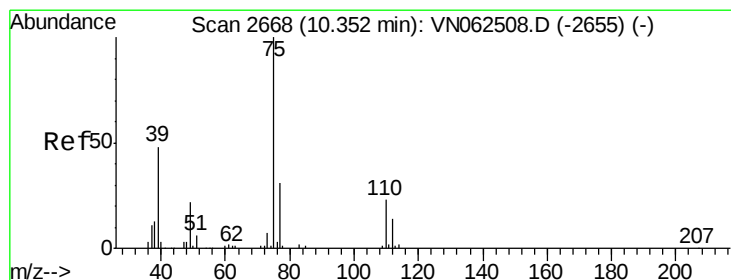
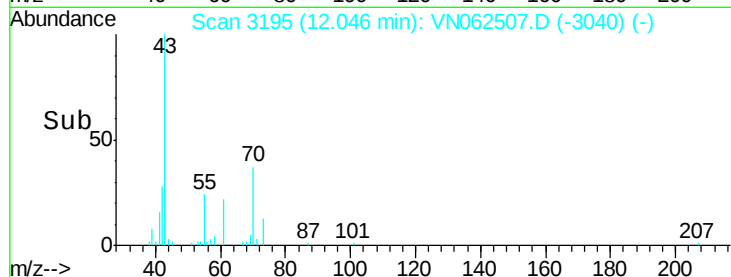
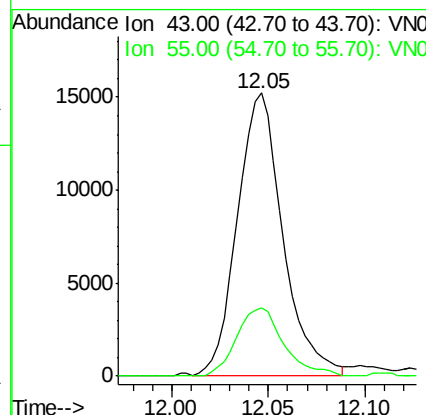
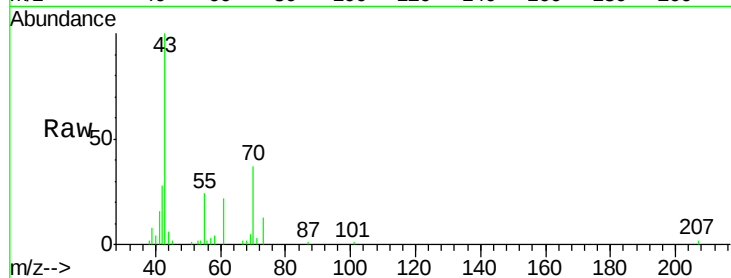




#47  
n-amyl Acetate  
Concen: 5.518 ug/l  
RT: 12.05 min Scan# 3195  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

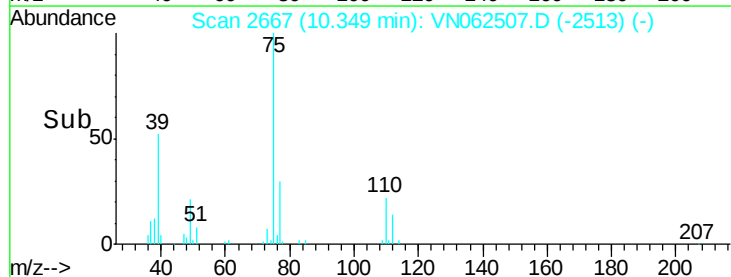
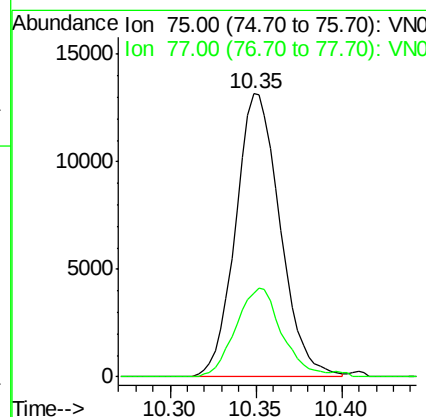
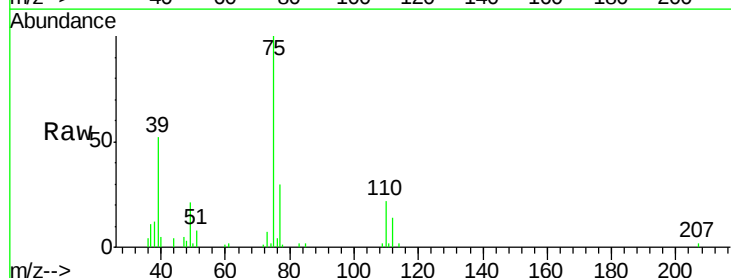
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

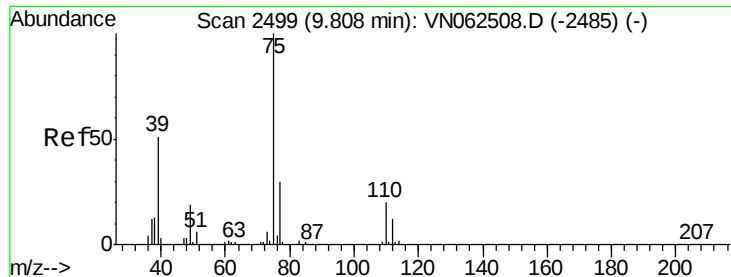
Tgt Ion: 43 Resp: 24964  
Ion Ratio Lower Upper  
43 100  
55 25.0 20.4 30.6



#48  
t-1,3-Dichloropropene  
Concen: 5.219 ug/l  
RT: 10.35 min Scan# 2667  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Tgt Ion: 75 Resp: 23771  
Ion Ratio Lower Upper  
75 100  
77 29.5 25.0 37.4

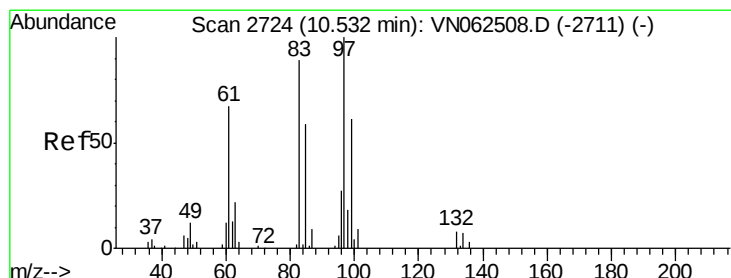
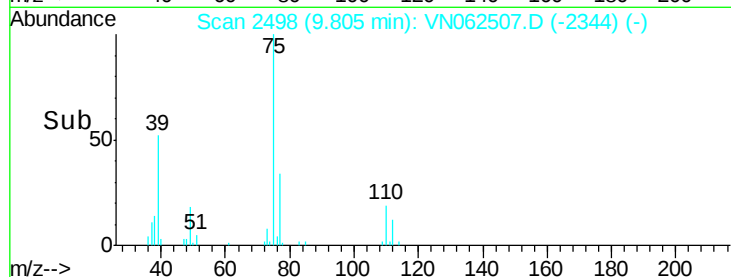
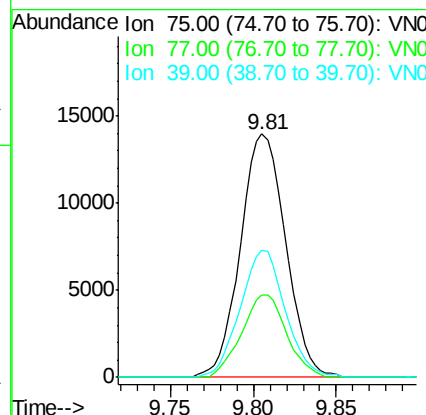
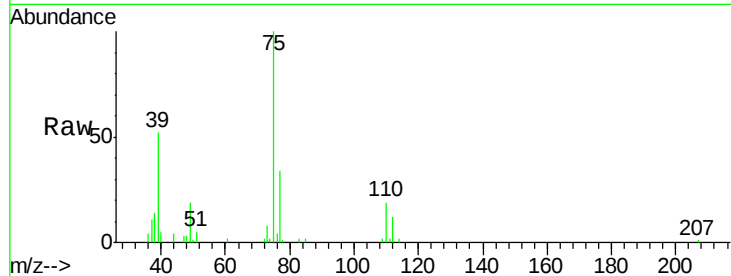




#49  
 cis-1,3-Dichloropropene  
 Concen: 5.359 ug/l  
 RT: 9.81 min Scan# 2498  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

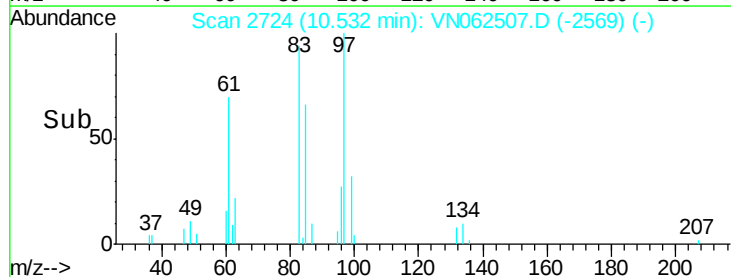
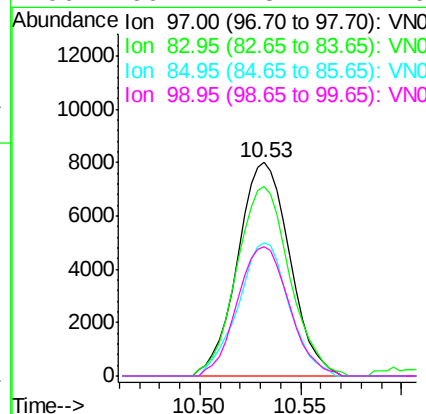
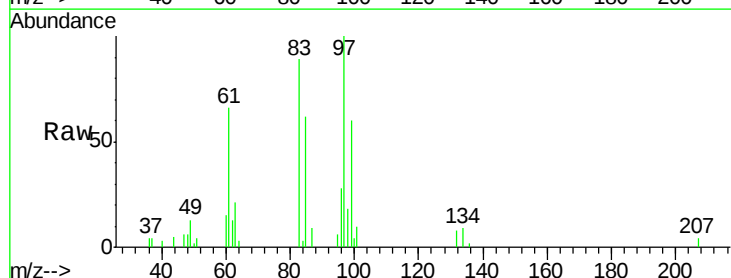
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

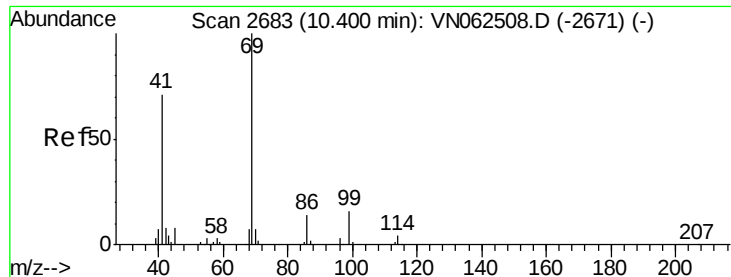
Tgt Ion: 75 Resp: 26541  
 Ion Ratio Lower Upper  
 75 100  
 77 33.9 23.7 35.5  
 39 52.4 40.5 60.7



#50  
 1,1,2-Trichloroethane  
 Concen: 4.813 ug/l  
 RT: 10.53 min Scan# 2724  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 97 Resp: 14503  
 Ion Ratio Lower Upper  
 97 100  
 83 89.0 71.3 106.9  
 85 62.4 47.2 70.8  
 99 60.4 48.4 72.6





#51

Ethyl methacrylate

Concen: 5.176 ug/l

RT: 10.40 min Scan# 2683

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

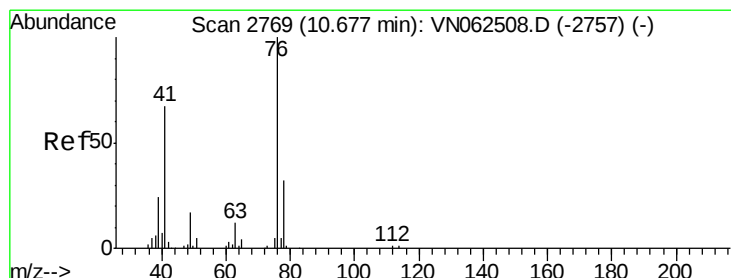
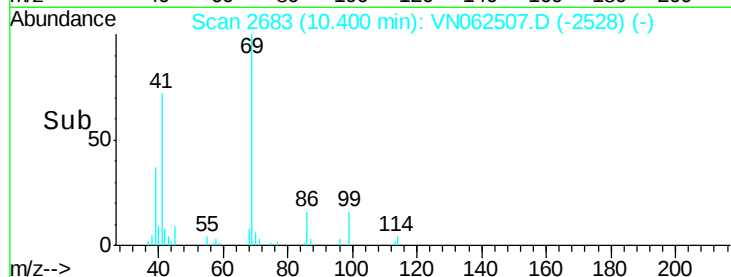
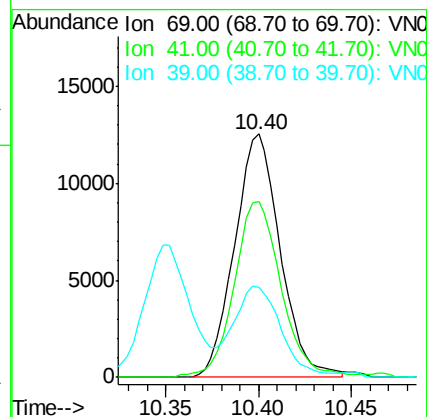
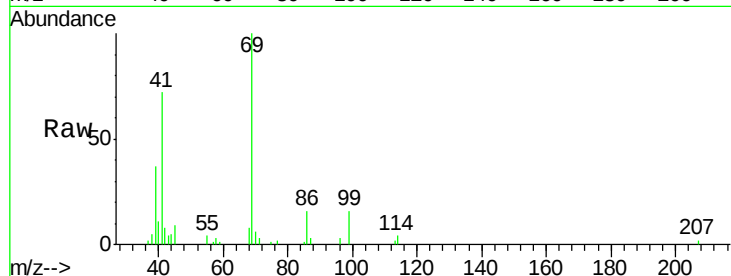
Tgt Ion: 69 Resp: 21464

Ion Ratio Lower Upper

69 100

41 70.9 35.6 106.8

39 35.1 17.2 51.5



#52

1,3-Dichloropropane

Concen: 5.266 ug/l

RT: 10.68 min Scan# 2769

Delta R.T. -0.00 min

Lab File: VN062507.D

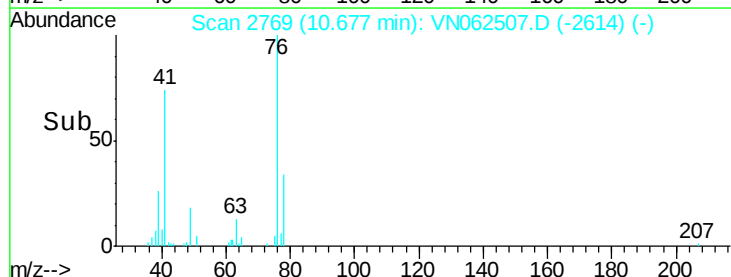
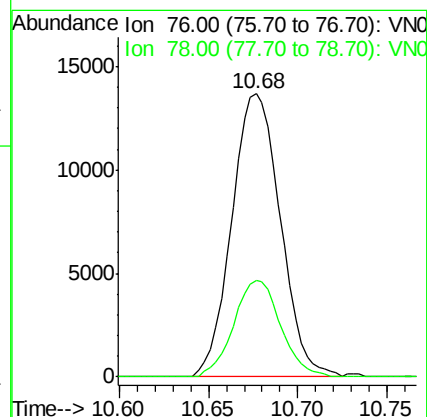
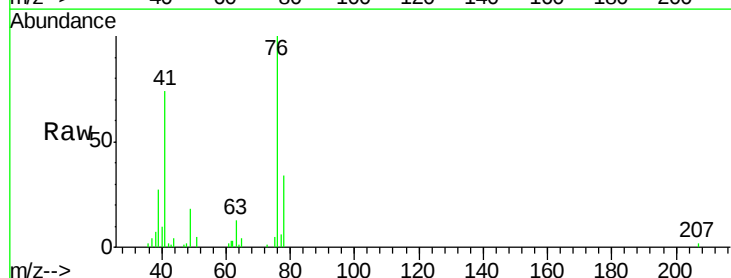
Acq: 13 Jul 2020 9:36

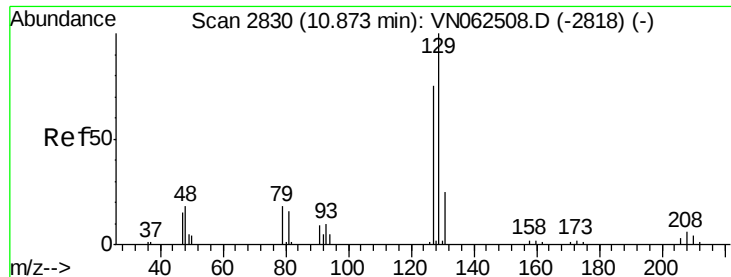
Tgt Ion: 76 Resp: 26018

Ion Ratio Lower Upper

76 100

78 32.9 0.0 63.6

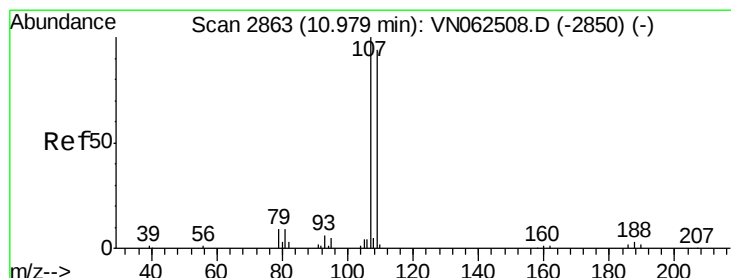
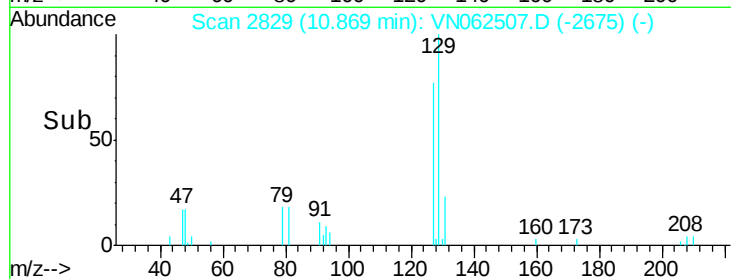
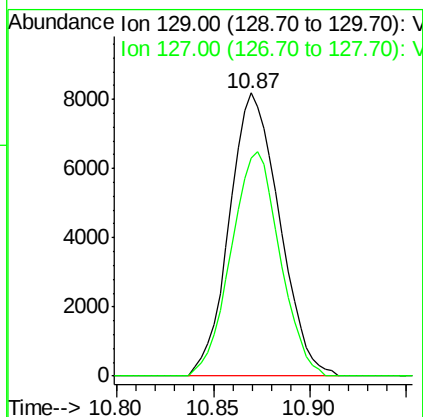
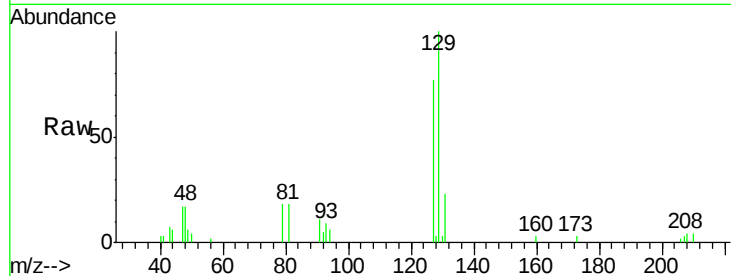




#53  
 Dibromochloromethane  
 Concen: 4.216 ug/l  
 RT: 10.87 min Scan# 2829  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

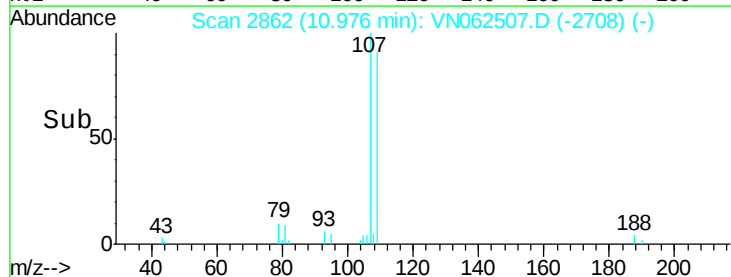
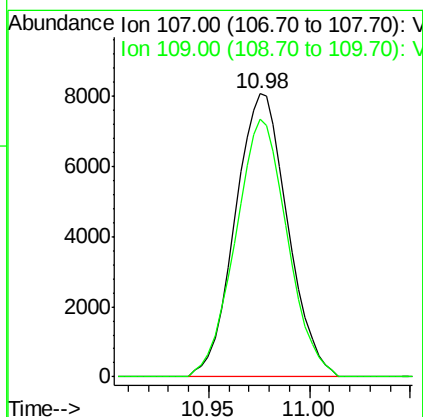
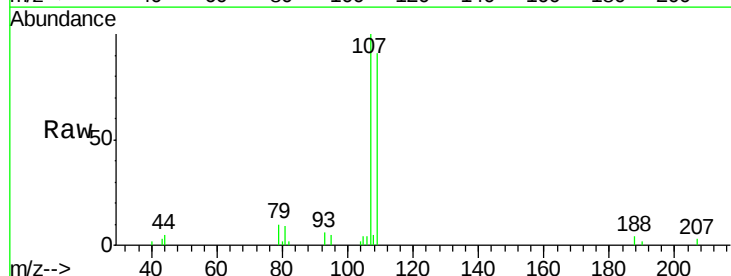
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

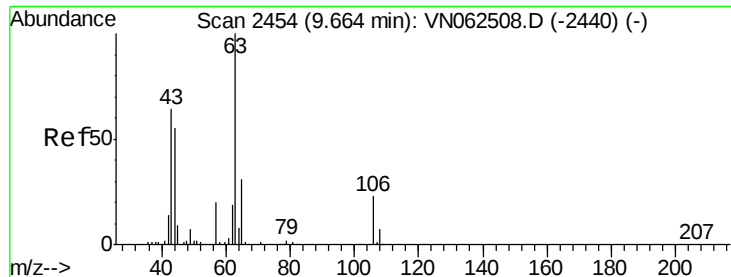
Tgt Ion:129 Resp: 14719  
 Ion Ratio Lower Upper  
 129 100  
 127 77.3 38.1 114.5



#54  
 1,2-Dibromoethane  
 Concen: 4.712 ug/l  
 RT: 10.98 min Scan# 2862  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion:107 Resp: 14671  
 Ion Ratio Lower Upper  
 107 100  
 109 90.0 74.8 112.2





#55

2-Chloroethyl vinyl ether

Concen: 17.654 ug/l

RT: 9.66 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

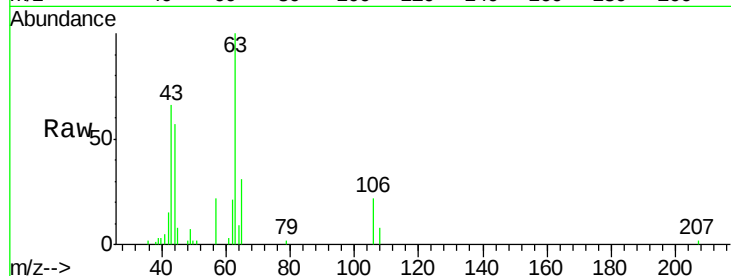
Tgt Ion: 63 Resp: 26968

Ion Ratio Lower Upper

63 100

65 31.0 25.4 38.2

106 23.0 18.4 27.6

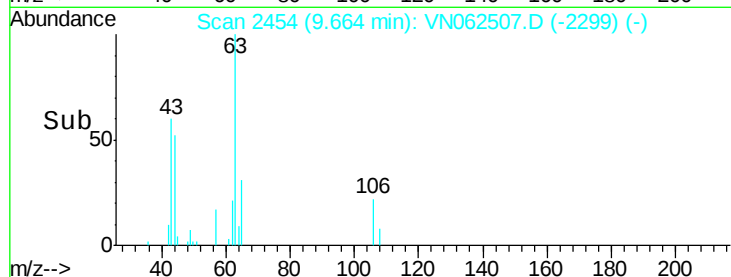


Abundance Ion 63.00 (62.70 to 63.70): VN062508.D (-2440) (-)

Ion 65.00 (64.70 to 65.70): VN062508.D (-2440) (-)

Ion 106.00 (105.70 to 106.70): VN062508.D (-2440) (-)

Time-->

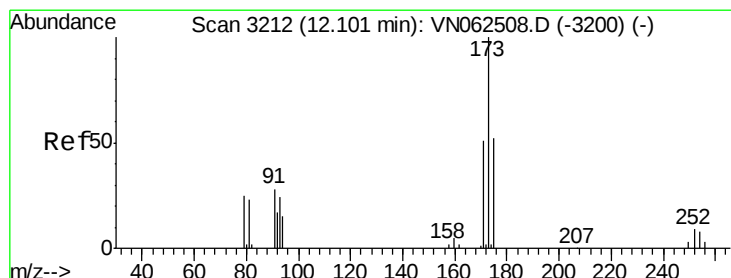


Abundance Ion 63.00 (62.70 to 63.70): VN062507.D (-2299) (-)

Ion 65.00 (64.70 to 65.70): VN062507.D (-2299) (-)

Ion 106.00 (105.70 to 106.70): VN062507.D (-2299) (-)

Time-->



#56

Bromoform

Concen: 3.917 ug/l

RT: 12.10 min Scan# 3212

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

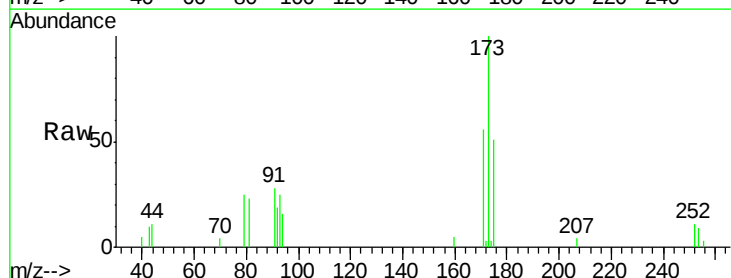
Tgt Ion: 173 Resp: 9557

Ion Ratio Lower Upper

173 100

175 50.5 38.1 57.1

254 7.8 6.2 9.2

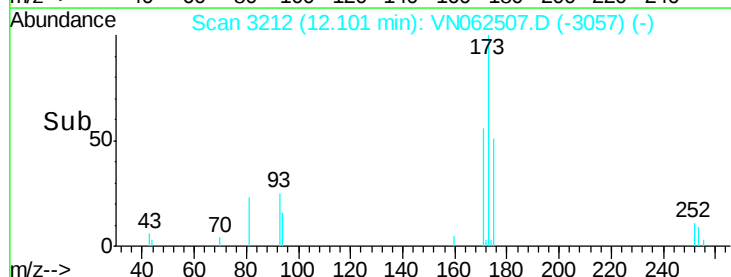


Abundance Ion 173.00 (172.70 to 173.70): VN062508.D (-3200) (-)

Ion 175.00 (174.70 to 175.70): VN062508.D (-3200) (-)

Ion 254.00 (253.70 to 254.70): VN062508.D (-3200) (-)

Time-->

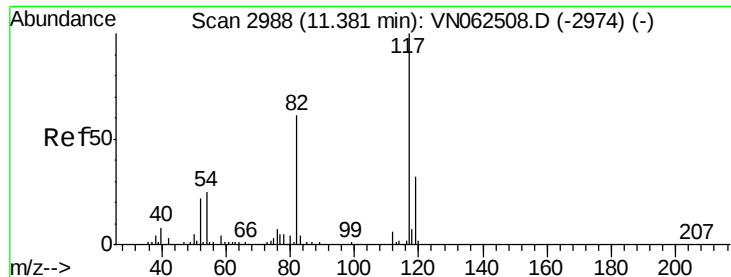


Abundance Ion 173.00 (172.70 to 173.70): VN062507.D (-3057) (-)

Ion 175.00 (174.70 to 175.70): VN062507.D (-3057) (-)

Ion 254.00 (253.70 to 254.70): VN062507.D (-3057) (-)

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2987

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

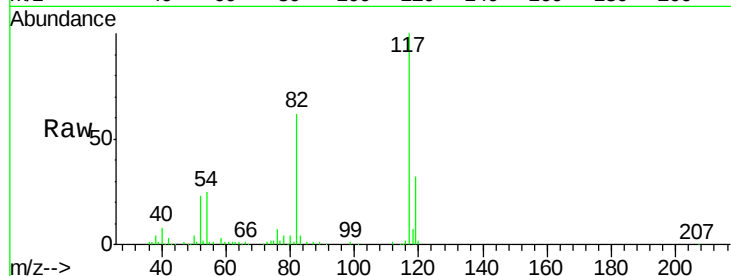
Tgt Ion: 117 Resp: 238891

Ion Ratio Lower Upper

117 100

82 61.5 49.0 73.6

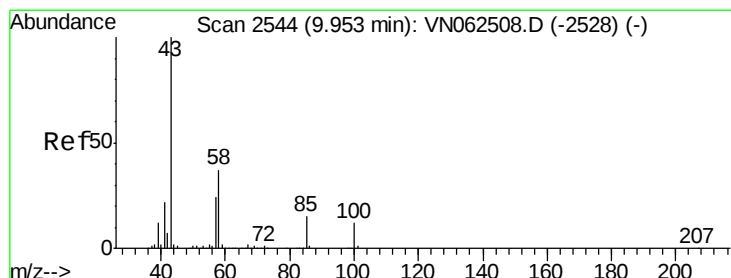
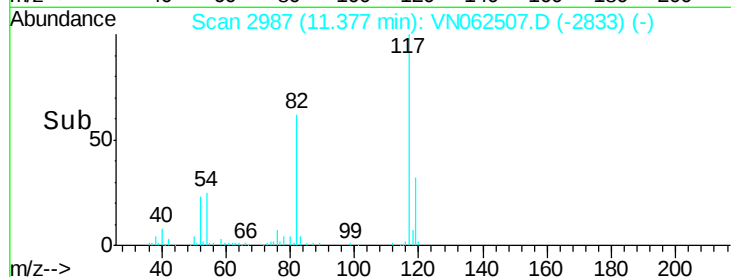
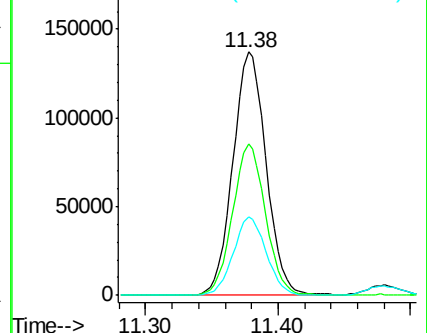
119 32.0 25.6 38.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 34.760 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

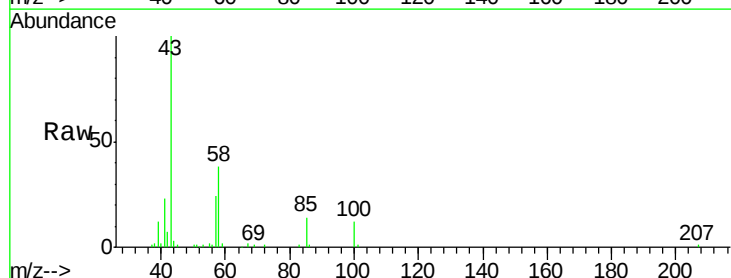
Tgt Ion: 43 Resp: 103845

Ion Ratio Lower Upper

43 100

58 37.0 29.6 44.4

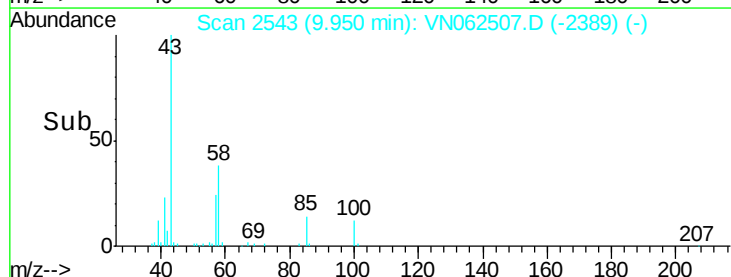
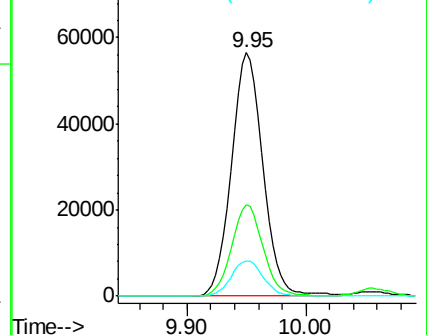
85 14.6 12.0 18.0

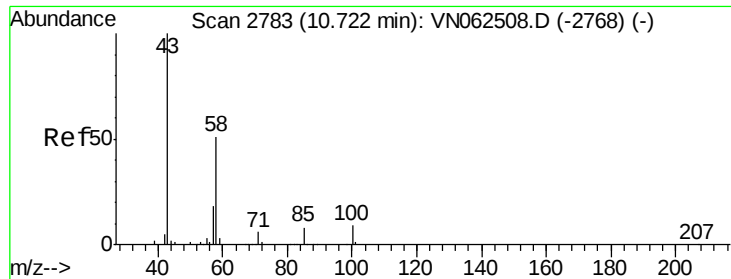


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V





#59

2-Hexanone

Concen: 33.702 ug/l

RT: 10.72 min Scan# 2783

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC005

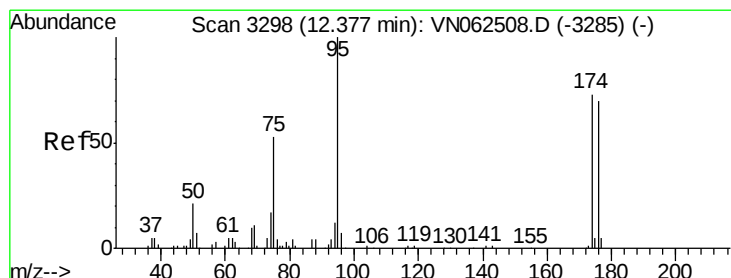
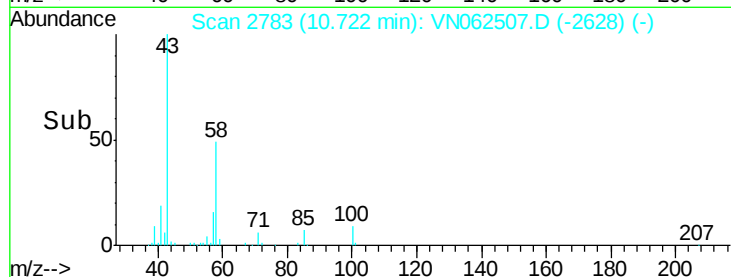
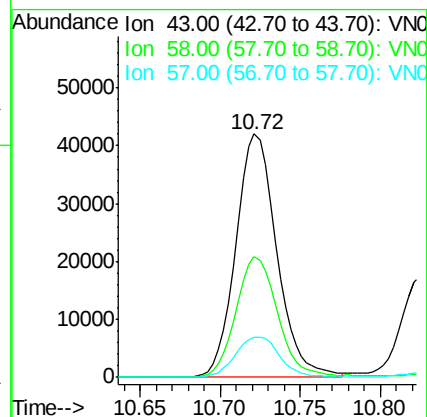
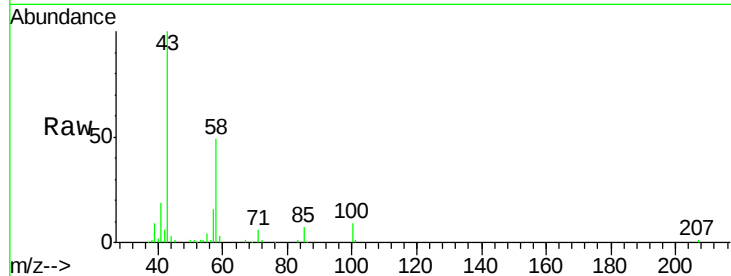
Tgt Ion: 43 Resp: 73502

Ion Ratio Lower Upper

43 100

58 50.2 41.2 61.8

57 17.9 14.4 21.6



#60

4-Bromofluorobenzene

Concen: 31.881 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

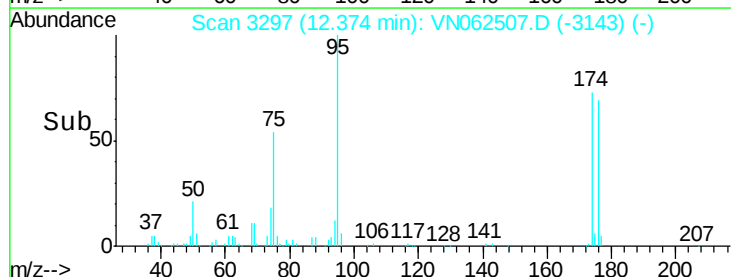
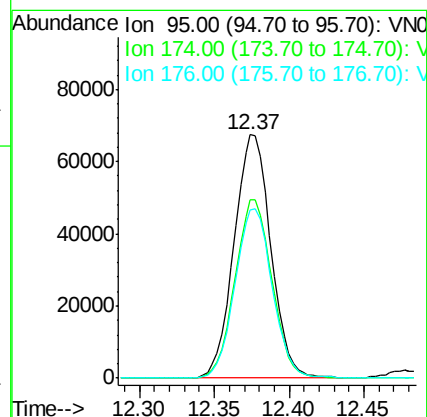
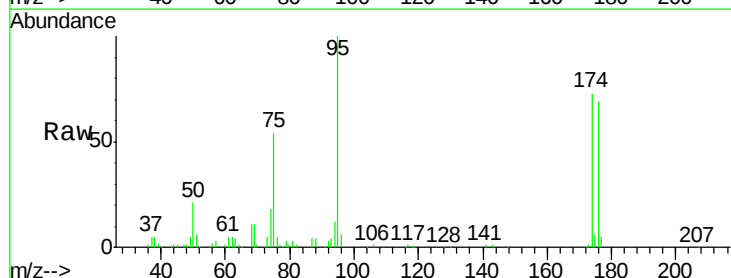
Tgt Ion: 95 Resp: 115579

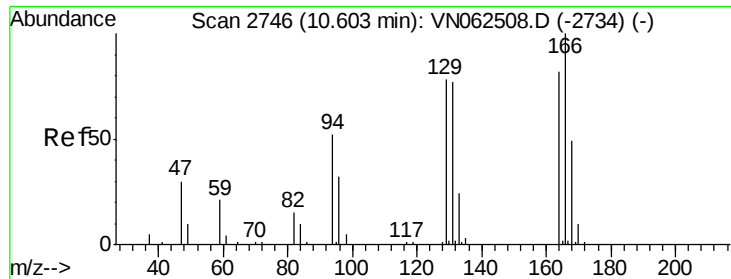
Ion Ratio Lower Upper

95 100

174 73.4 57.5 86.3

176 70.5 56.3 84.5

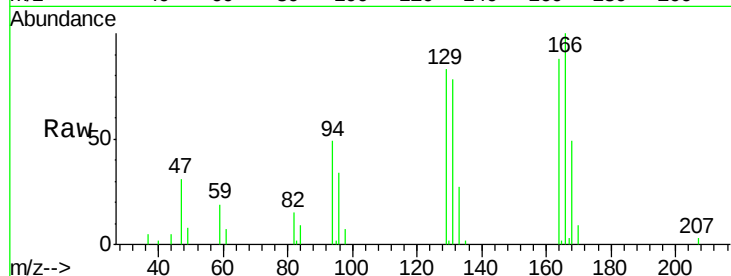




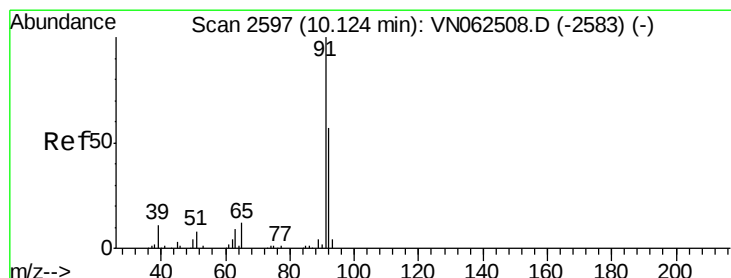
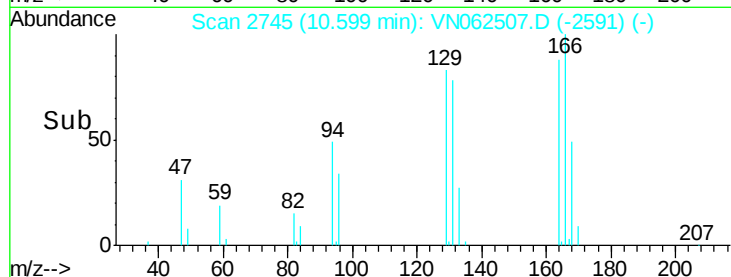
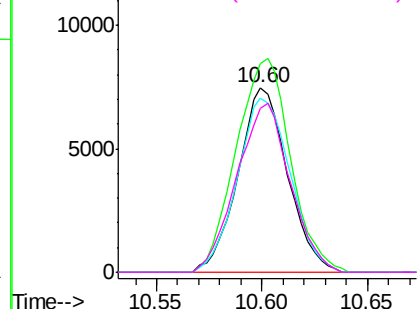
#61  
Tetrachloroethene  
Concen: 3.518 ug/l  
RT: 10.60 min Scan# 2745  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDIC005

Tgt Ion:164 Resp: 12165  
Ion Ratio Lower Upper  
164 100  
166 113.2 97.7 146.5  
129 94.4 77.0 115.4  
131 88.5 75.0 112.6

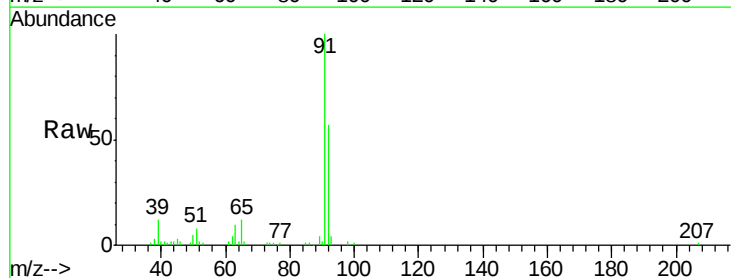


Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

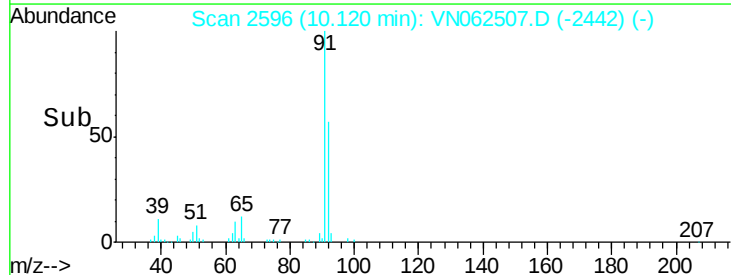
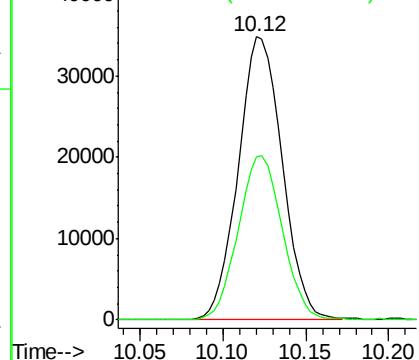


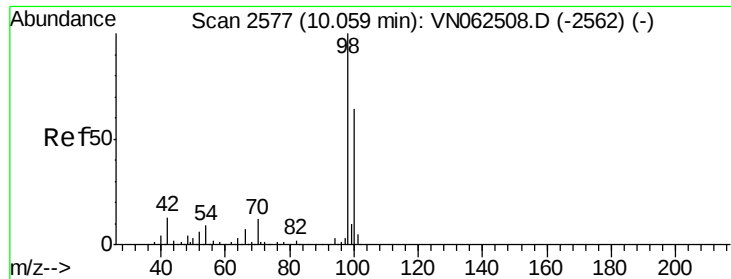
#62  
Toluene  
Concen: 5.145 ug/l  
RT: 10.12 min Scan# 2596  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Tgt Ion: 91 Resp: 64404  
Ion Ratio Lower Upper  
91 100  
92 57.8 45.8 68.6



Abundance Ion 91.00 (90.70 to 91.70): V  
Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 32.898 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

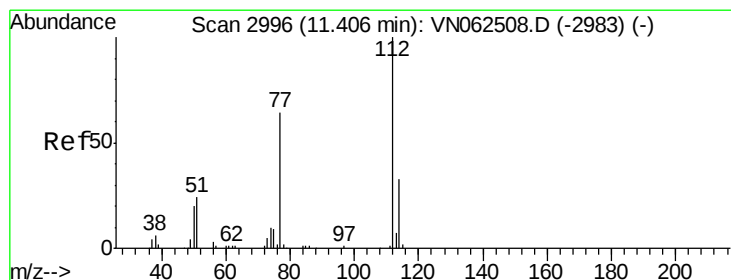
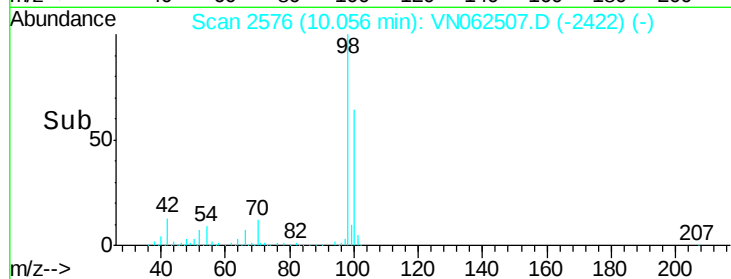
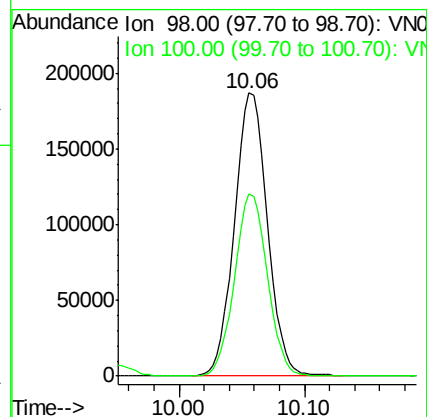
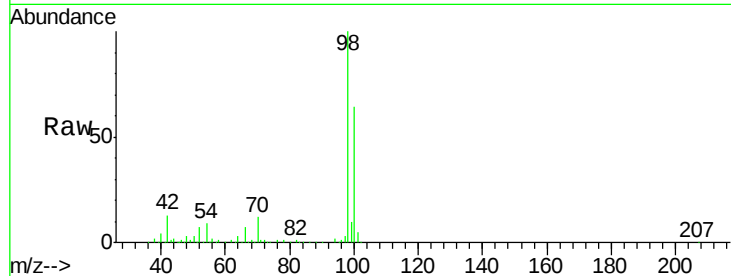
VSTDIC005

Tgt Ion: 98 Resp: 341813

Ion Ratio Lower Upper

98 100

100 64.3 50.4 75.6



#64

Chlorobenzene

Concen: 4.837 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN062507.D

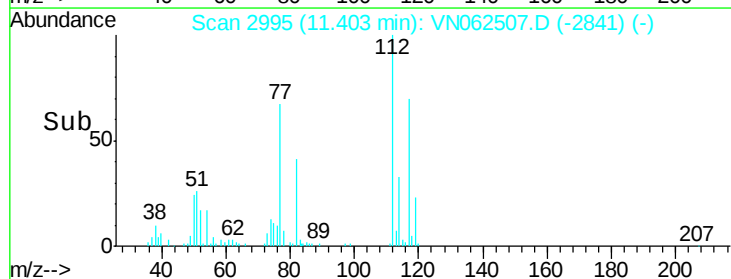
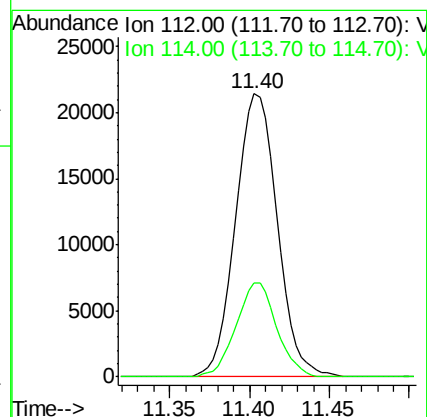
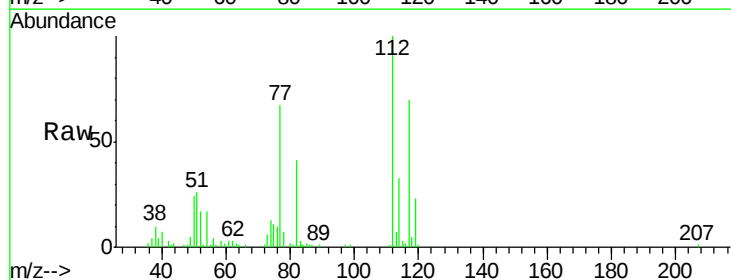
Acq: 13 Jul 2020 9:36

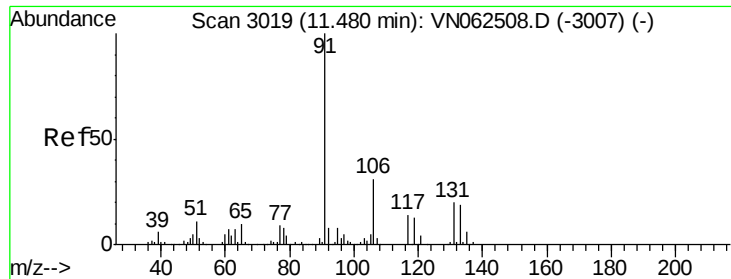
Tgt Ion: 112 Resp: 38093

Ion Ratio Lower Upper

112 100

114 33.3 26.0 39.0





#65

1,1,1,2-Tetrachloroethane

Concen: 4.690 ug/l

RT: 11.48 min Scan# 3018

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

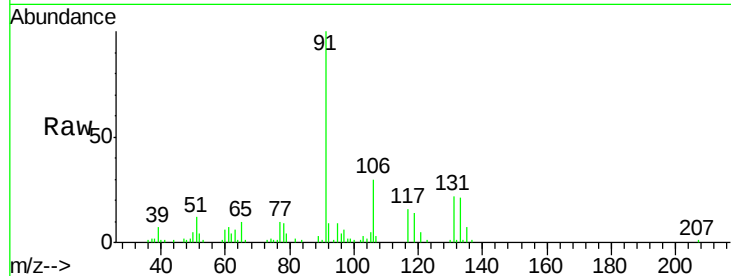
Tgt Ion:131 Resp: 14063

Ion Ratio Lower Upper

131 100

133 96.9 0.0 191.4

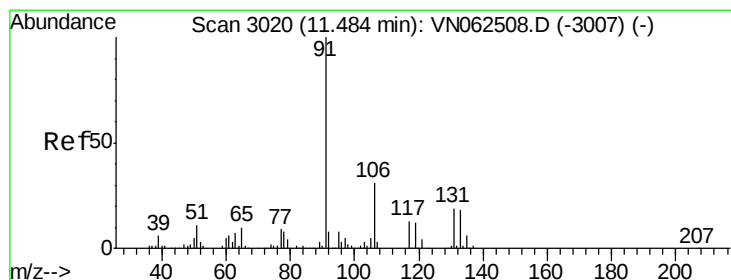
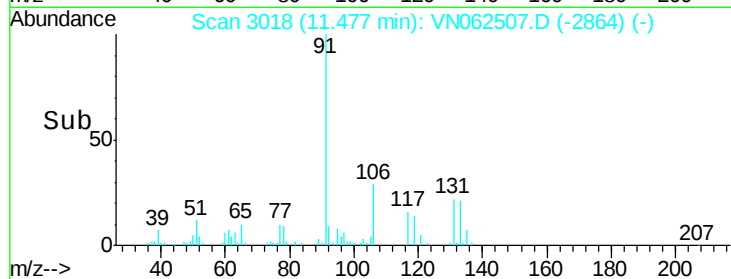
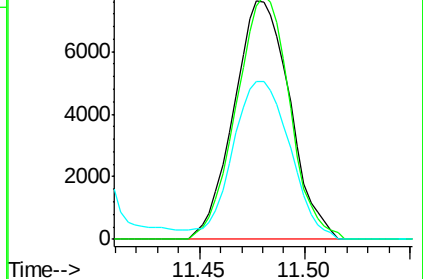
119 67.7 0.0 136.2



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 5.002 ug/l

RT: 11.48 min Scan# 3020

Delta R.T. -0.00 min

Lab File: VN062507.D

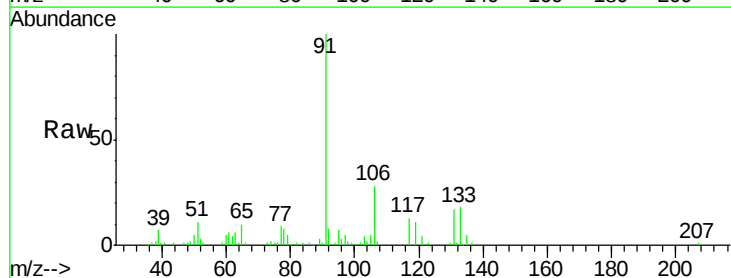
Acq: 13 Jul 2020 9:36

Tgt Ion: 91 Resp: 68712

Ion Ratio Lower Upper

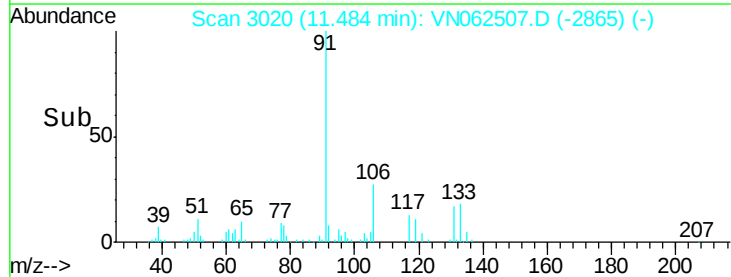
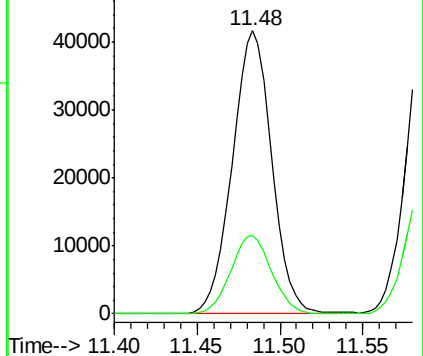
91 100

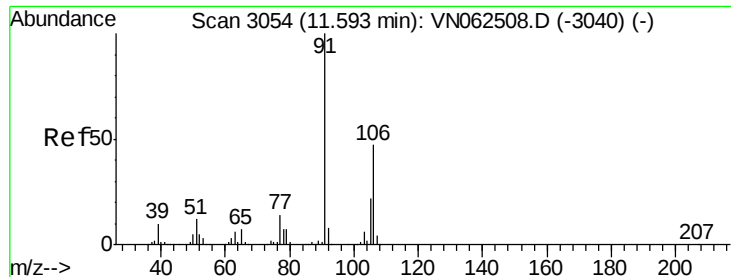
106 27.9 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 9.324 ug/l

RT: 11.59 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

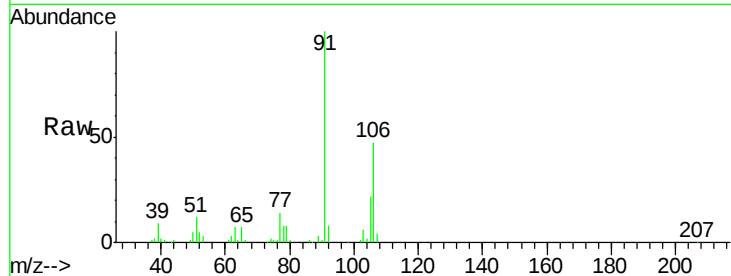
VSTDIC005

Tgt Ion:106 Resp: 49851

Ion Ratio Lower Upper

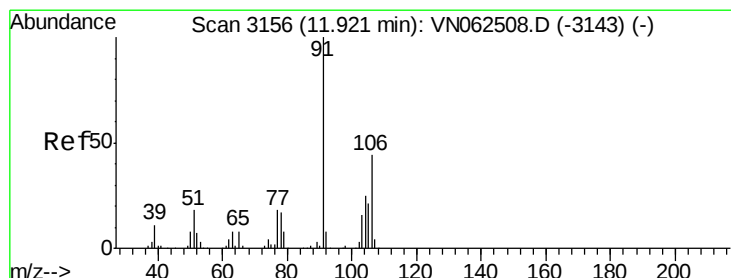
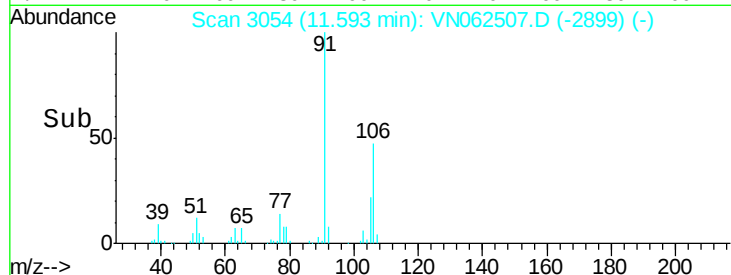
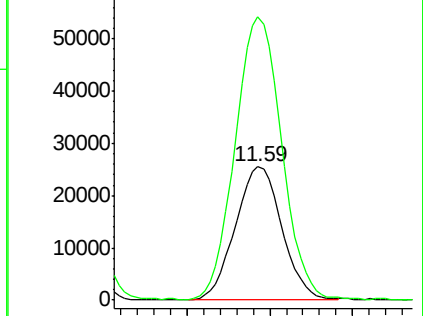
106 100

91 212.8 170.7 256.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 4.671 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VN062507.D

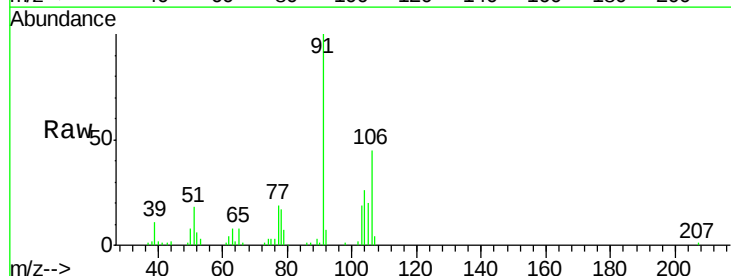
Acq: 13 Jul 2020 9:36

Tgt Ion:106 Resp: 23669

Ion Ratio Lower Upper

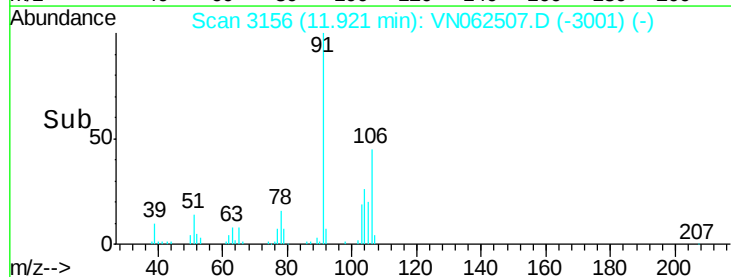
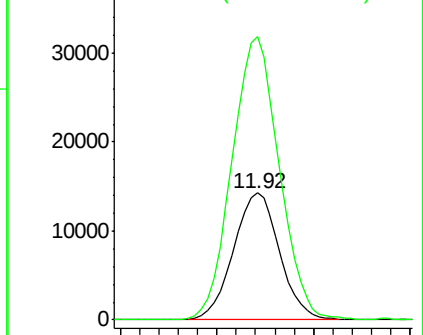
106 100

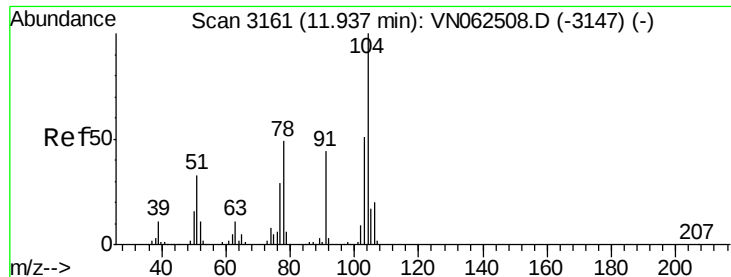
91 228.4 113.9 341.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

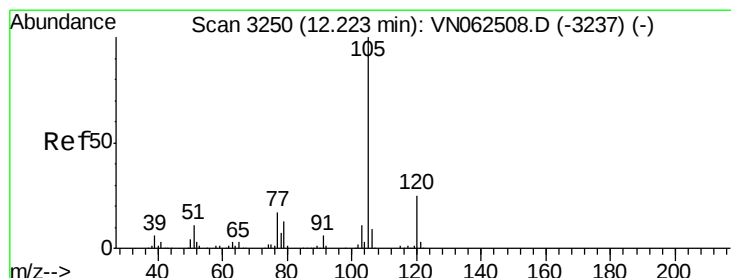
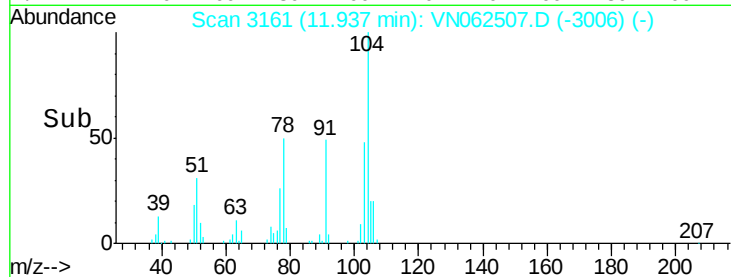
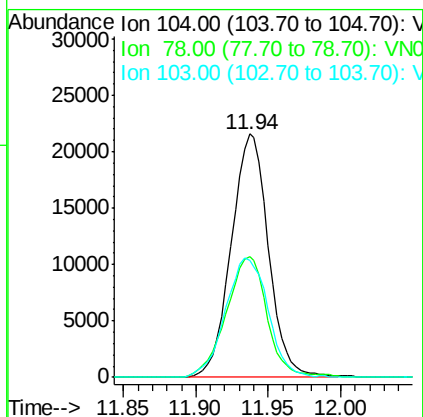
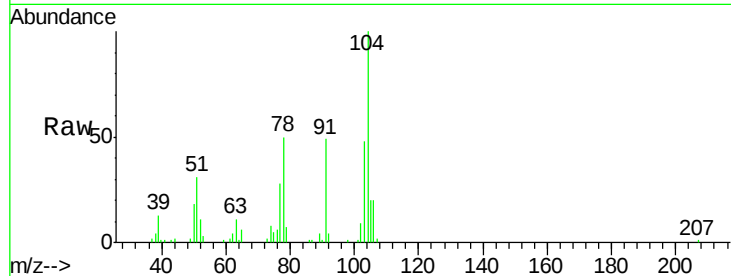




#69  
 Styrene  
 Concen: 4.465 ug/l  
 RT: 11.94 min Scan# 3161  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

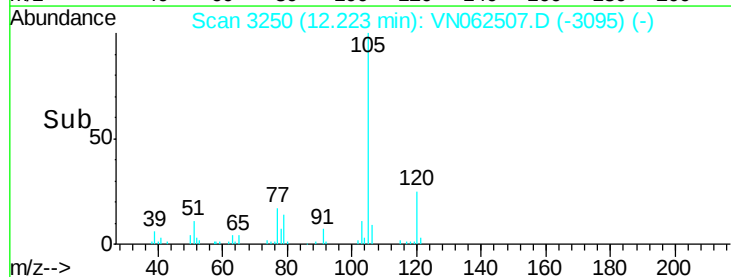
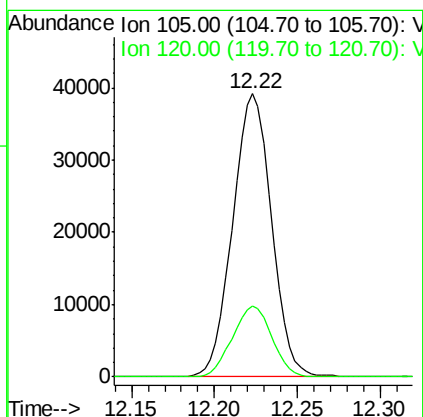
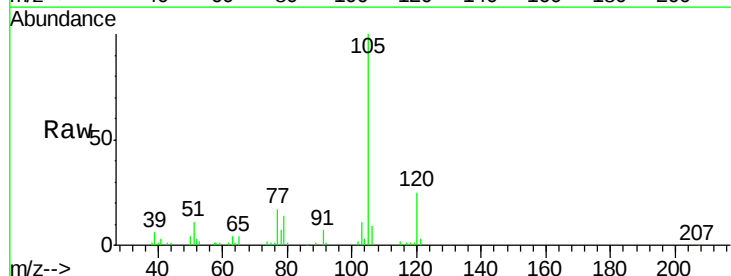
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

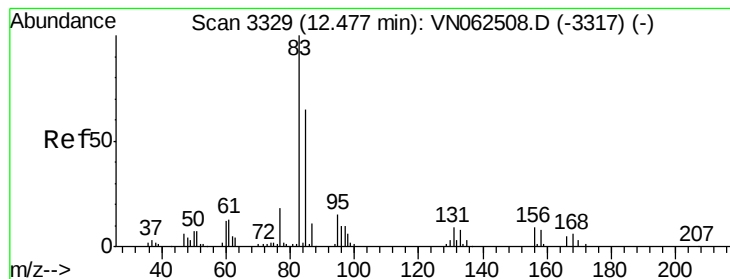
Tgt Ion:104 Resp: 38491  
 Ion Ratio Lower Upper  
 104 100  
 78 54.0 43.9 65.9  
 103 56.3 43.8 65.6



#70  
 Isopropylbenzene  
 Concen: 4.747 ug/l  
 RT: 12.22 min Scan# 3250  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion:105 Resp: 63845  
 Ion Ratio Lower Upper  
 105 100  
 120 25.3 17.6 32.8





#71

1,1,2,2-Tetrachloroethane

Concen: 5.609 ug/l

RT: 12.48 min Scan# 3329

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

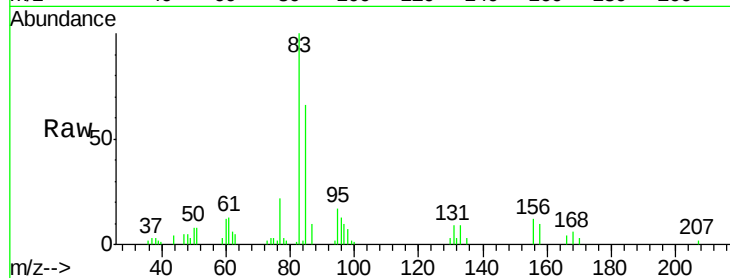
Tgt Ion: 83 Resp: 20993

Ion Ratio Lower Upper

83 100

131 8.5 4.5 13.7

85 63.1 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VN062507.D (-3174) (-)

Ion 131.00 (130.70 to 131.70): VN062507.D (-3174) (-)

Ion 85.00 (84.70 to 85.70): VN062507.D (-3174) (-)

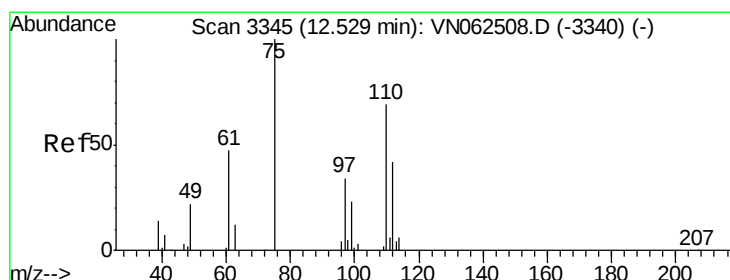
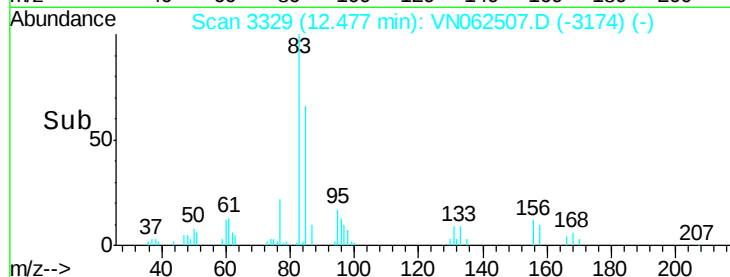
12.48

10000

5000

0

Time--> 12.40 12.45 12.50 12.55



#72

1,2,3-Trichloropropane

Concen: 8.019 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN062507.D

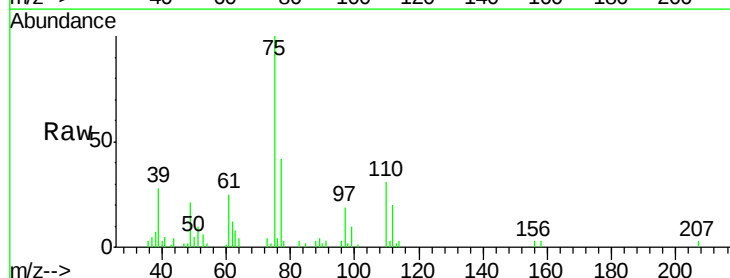
Acq: 13 Jul 2020 9:36

Tgt Ion: 75 Resp: 28018

Ion Ratio Lower Upper

75 100

77 129.5 0.0 376.2



Abundance Ion 75.00 (74.70 to 75.70): VN062507.D (-3190) (-)

Ion 77.00 (76.70 to 77.70): VN062507.D (-3190) (-)

12.53

20000

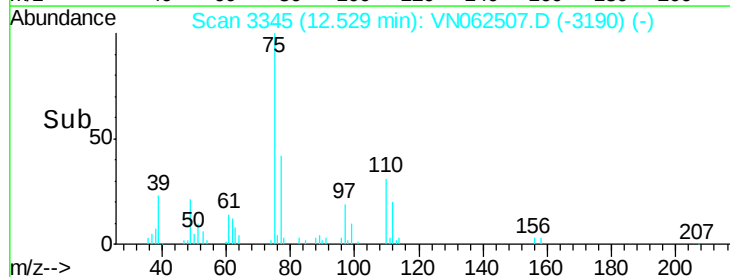
15000

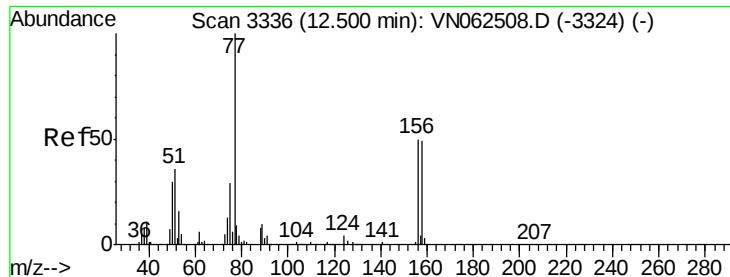
10000

5000

0

Time--> 12.50 12.60





#73

Bromobenzene

Concen: 4.316 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampled :

VSTDIC005

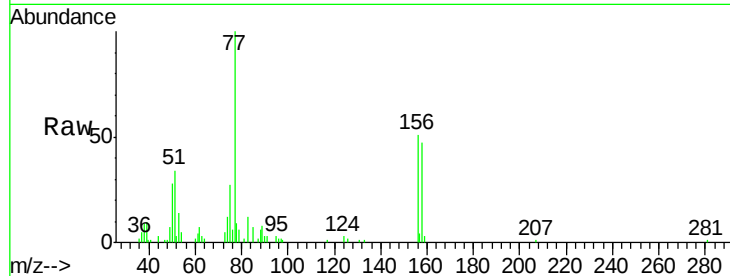
Tgt Ion: 156 Resp: 15238

Ion Ratio Lower Upper

156 100

77 238.0 0.0 485.0

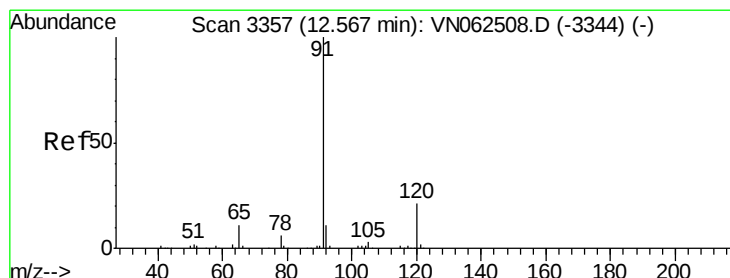
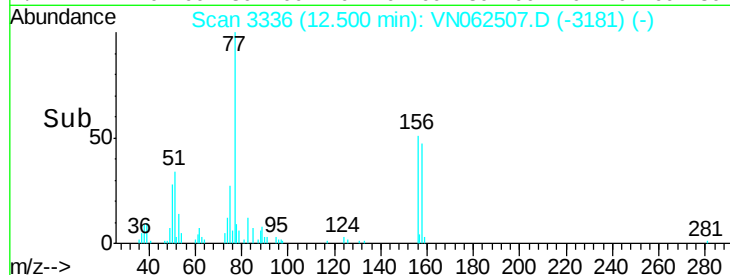
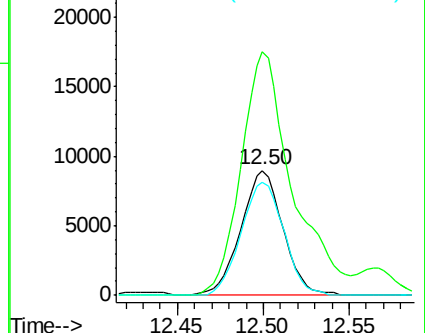
158 91.6 0.0 192.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.836 ug/l

RT: 12.56 min Scan# 3356

Delta R.T. -0.00 min

Lab File: VN062507.D

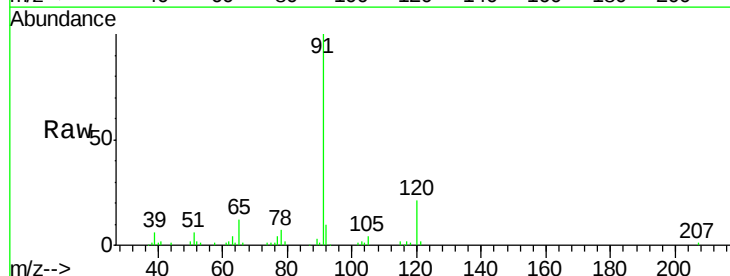
Acq: 13 Jul 2020 9:36

Tgt Ion: 91 Resp: 73927

Ion Ratio Lower Upper

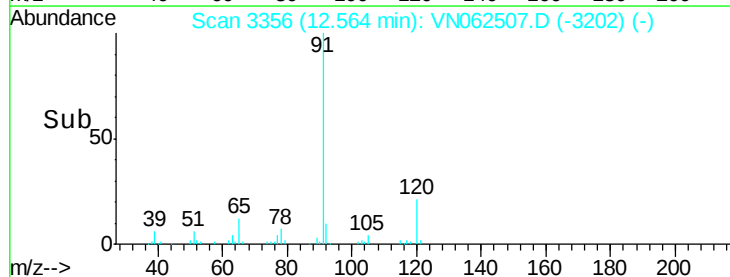
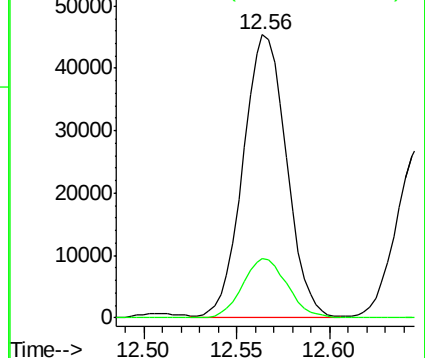
91 100

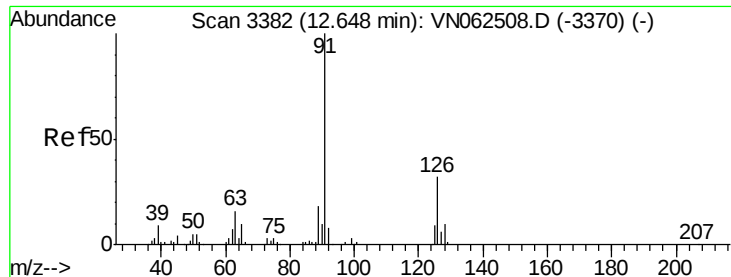
120 21.5 0.0 42.8



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 5.025 ug/l

RT: 12.65 min Scan# 3382

Delta R.T. -0.00 min

Lab File: VN062507.D

Acq: 13 Jul 2020 9:36

Instrument :

MSVOA\_N

ClientSampleId :

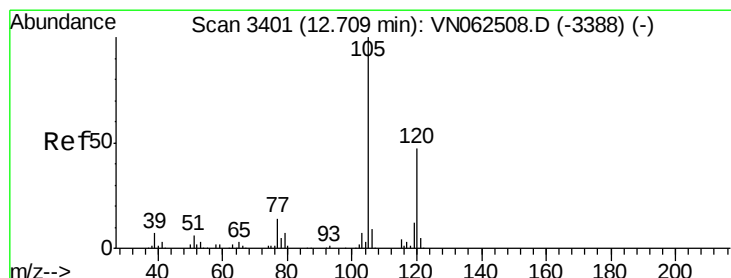
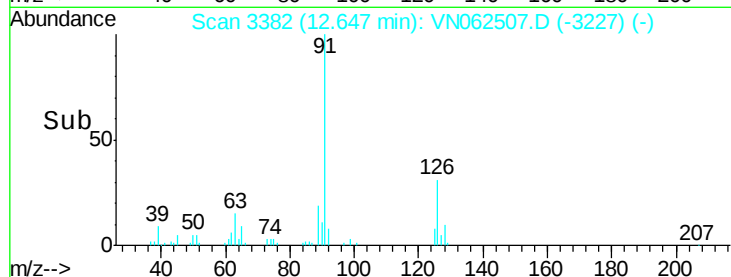
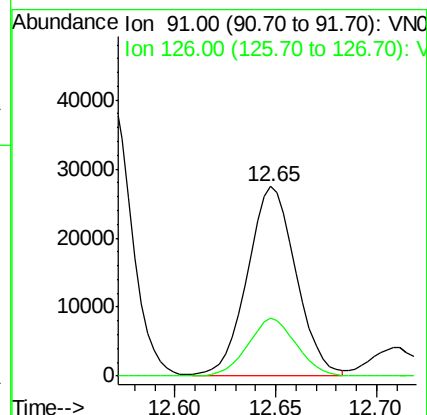
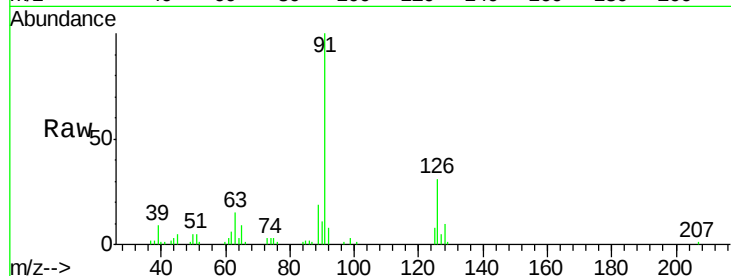
VSTDIC005

Tgt Ion: 91 Resp: 45735

Ion Ratio Lower Upper

91 100

126 30.6 0.0 62.2



#76

1,3,5-Trimethylbenzene

Concen: 4.803 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN062507.D

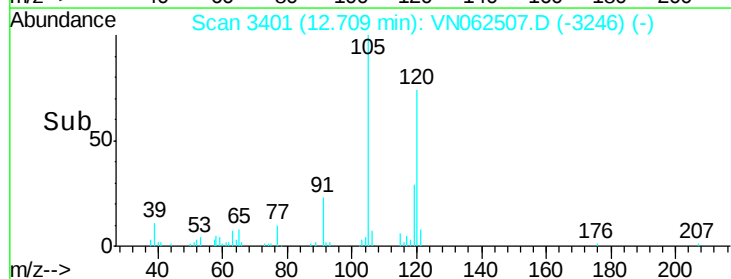
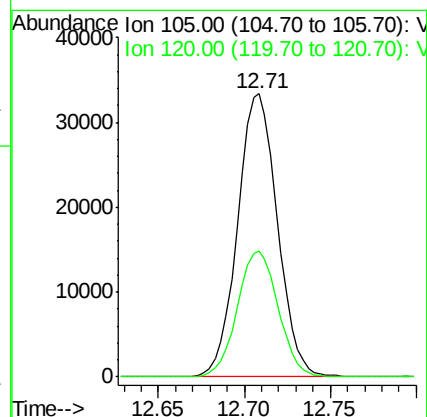
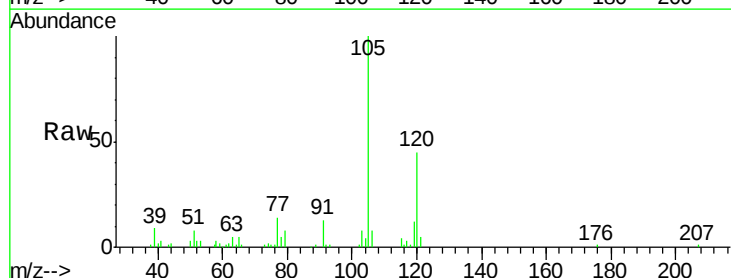
Acq: 13 Jul 2020 9:36

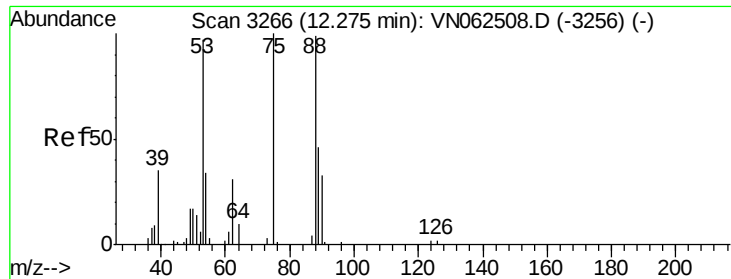
Tgt Ion: 105 Resp: 53864

Ion Ratio Lower Upper

105 100

120 45.5 0.0 95.0

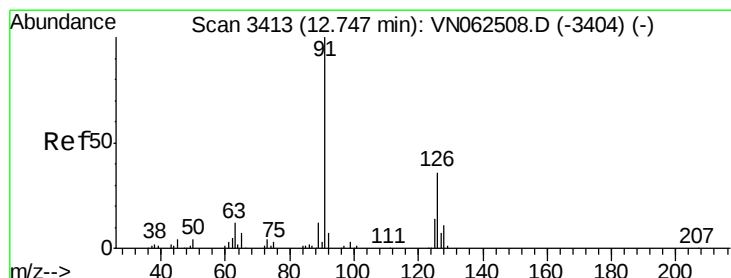
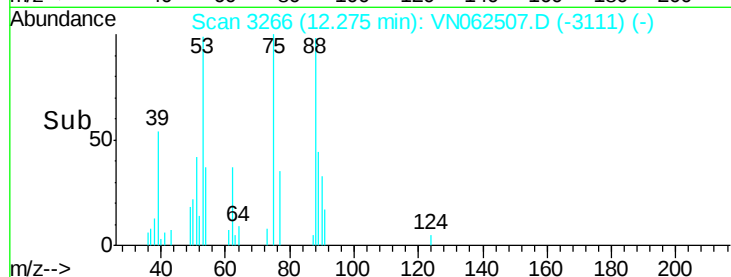
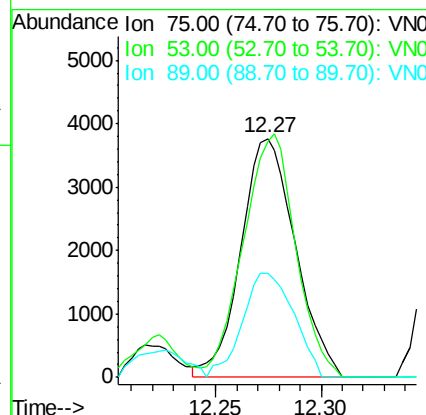
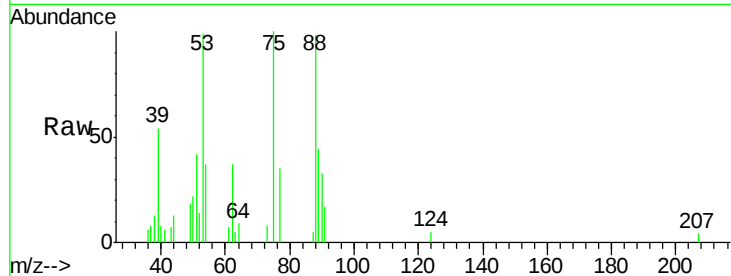




#77  
t-1,4-Dichloro-2-butene  
Concen: 5.258 ug/l  
RT: 12.27 min Scan# 3266  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

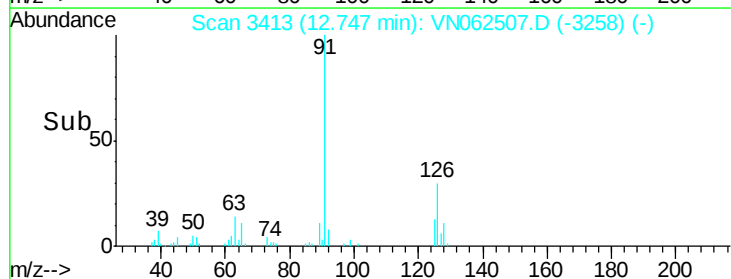
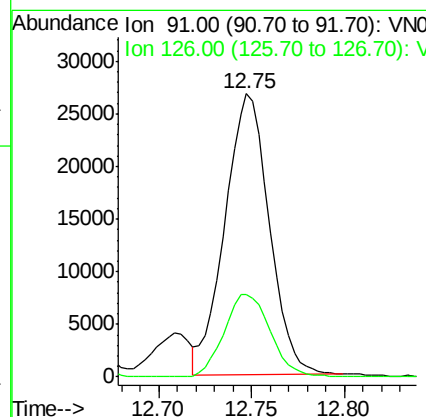
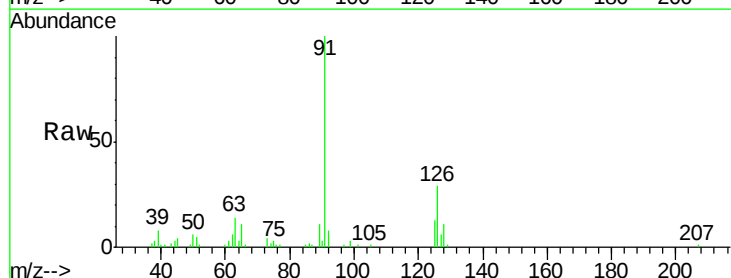
Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDIC005

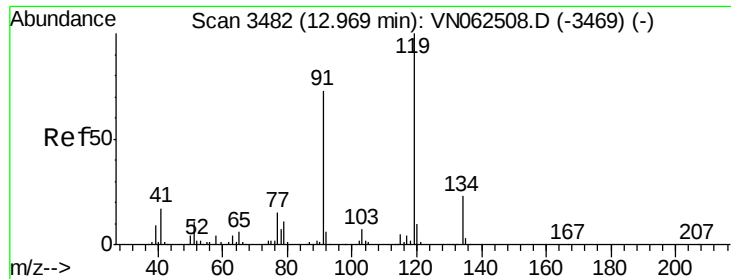
Tgt Ion: 75 Resp: 6769  
Ion Ratio Lower Upper  
75 100  
53 98.9 48.3 144.8  
89 43.7 23.3 69.8



#78  
4-Chlorotoluene  
Concen: 4.709 ug/l  
RT: 12.75 min Scan# 3413  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Tgt Ion: 91 Resp: 44364  
Ion Ratio Lower Upper  
91 100  
126 30.5 0.0 62.2

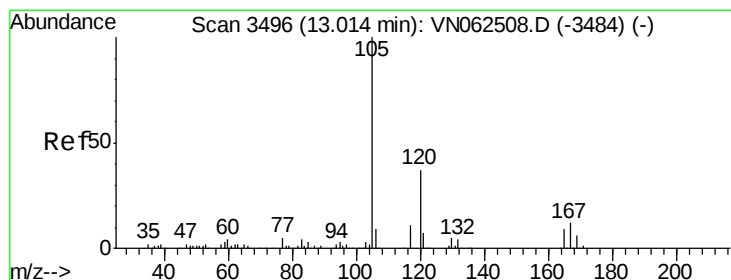
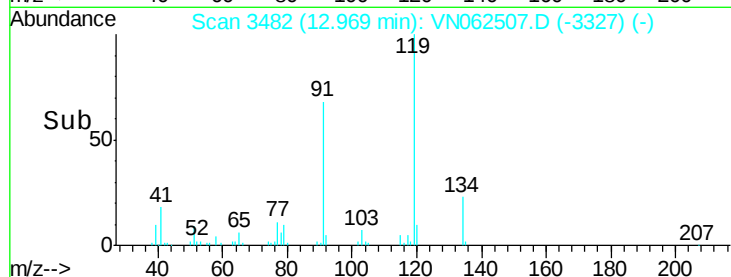
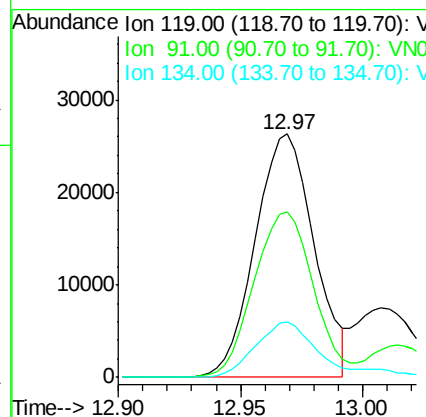
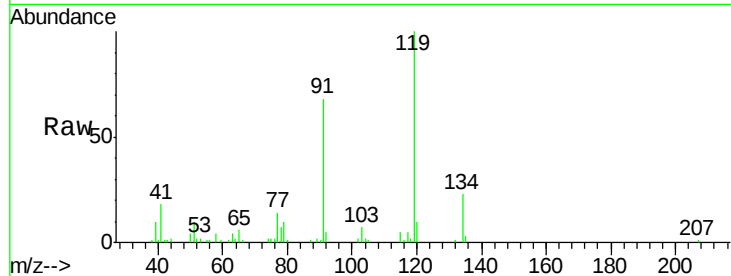




#79  
tert-butylbenzene  
Concen: 4.554 ug/l  
RT: 12.97 min Scan# 3482  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

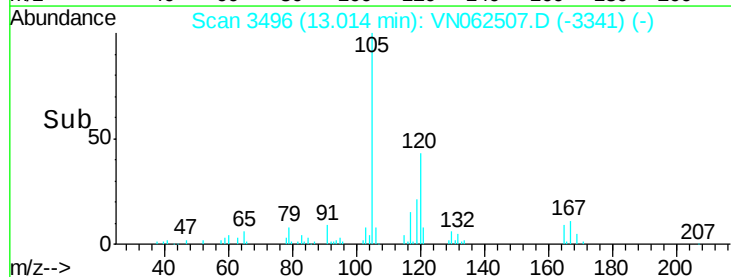
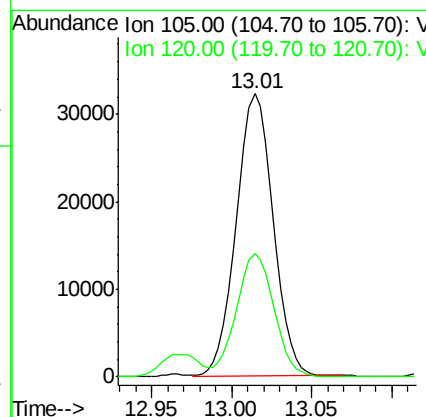
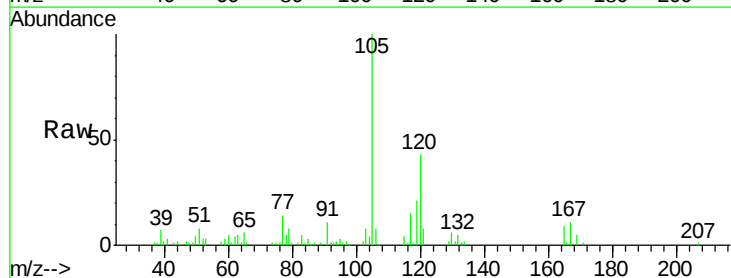
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

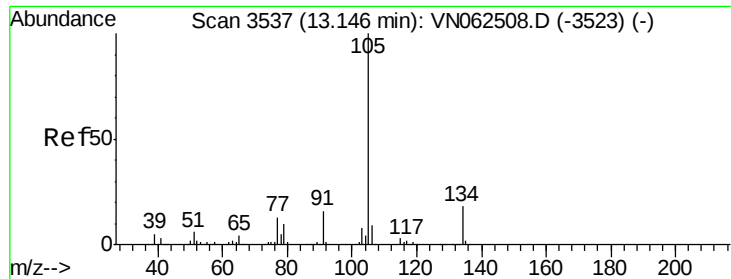
Tgt Ion:119 Resp: 44062  
Ion Ratio Lower Upper  
119 100  
91 68.2 0.0 139.8  
134 22.8 0.0 45.0



#80  
1,2,4-Trimethylbenzene  
Concen: 4.510 ug/l  
RT: 13.01 min Scan# 3496  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Tgt Ion:105 Resp: 50733  
Ion Ratio Lower Upper  
105 100  
120 44.5 0.0 86.6

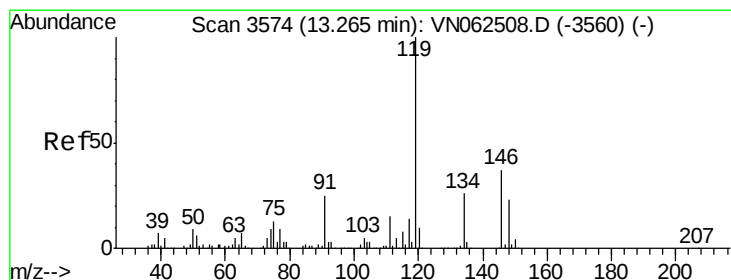
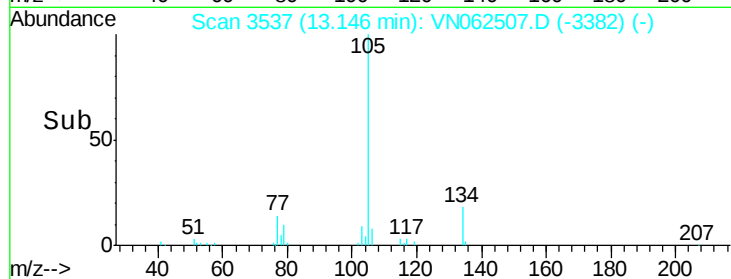
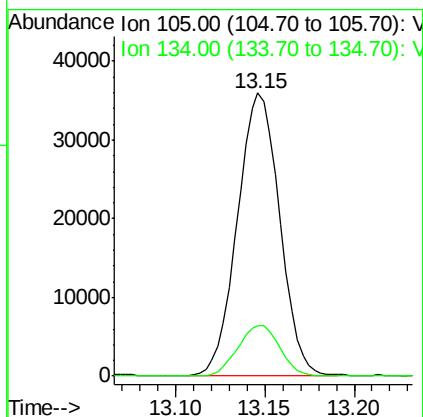
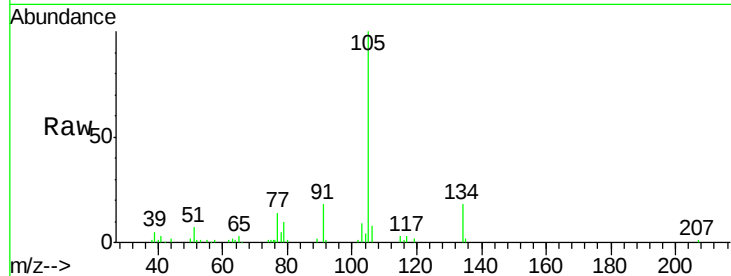




#81  
 sec-Butylbenzene  
 Concen: 4.758 ug/l  
 RT: 13.15 min Scan# 3537  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

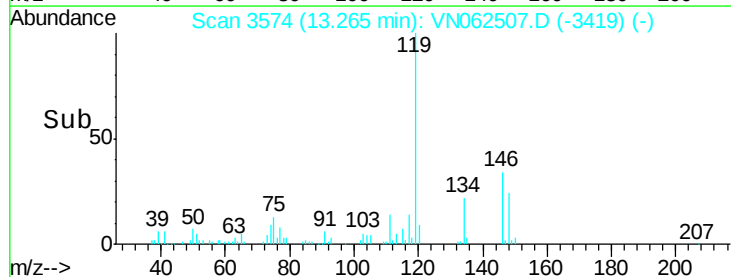
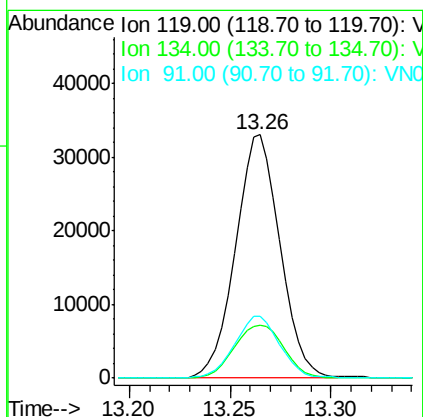
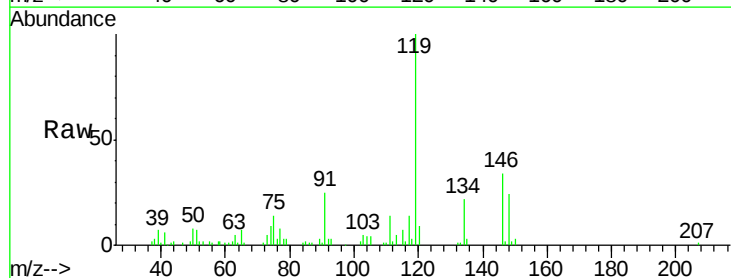
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

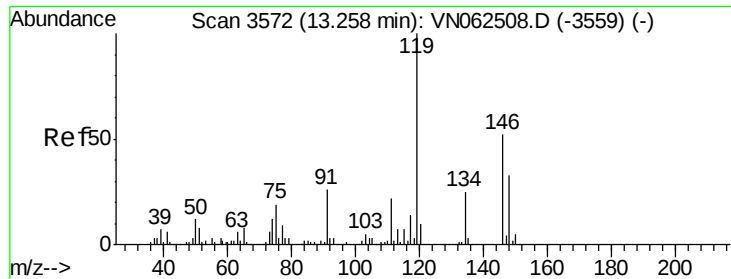
Tgt Ion:105 Resp: 59483  
 Ion Ratio Lower Upper  
 105 100  
 134 17.7 0.0 37.2



#82  
 p-Isopropyltoluene  
 Concen: 4.429 ug/l  
 RT: 13.26 min Scan# 3574  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion:119 Resp: 50946  
 Ion Ratio Lower Upper  
 119 100  
 134 24.4 0.0 50.8  
 91 25.7 0.0 51.2

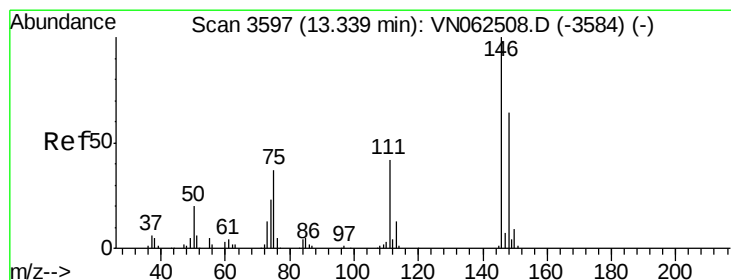
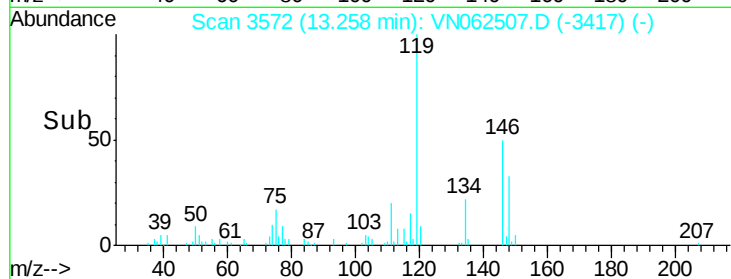
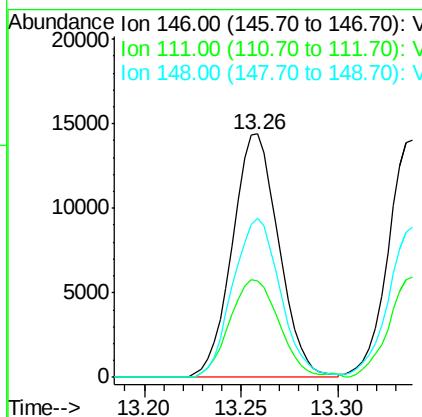
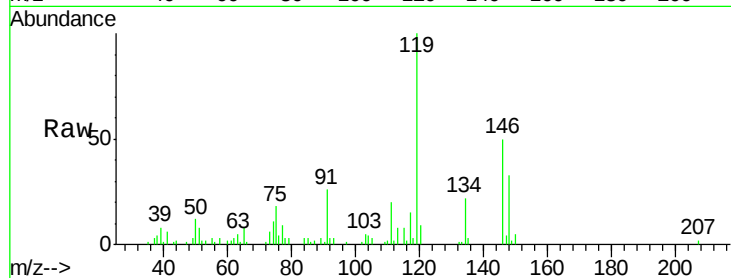




#83  
 1,3-Dichlorobenzene  
 Concen: 3.852 ug/l  
 RT: 13.26 min Scan# 3572  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

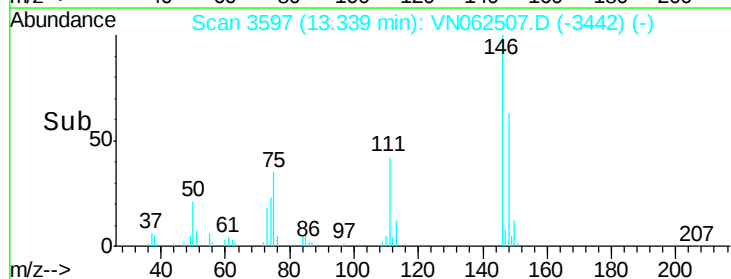
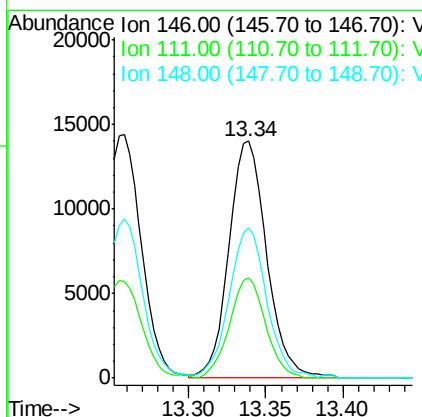
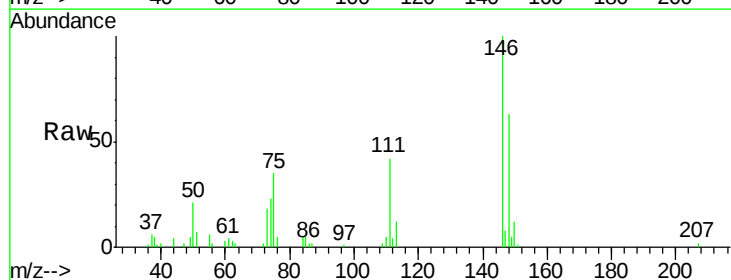
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

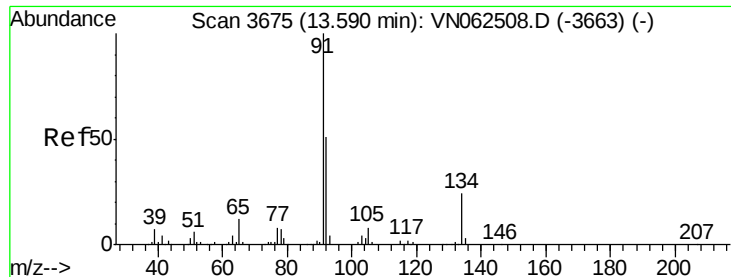
Tgt Ion:146 Resp: 24094  
 Ion Ratio Lower Upper  
 146 100  
 111 42.7 21.0 63.0  
 148 66.8 31.7 95.1



#84  
 1,4-Dichlorobenzene  
 Concen: 3.882 ug/l  
 RT: 13.34 min Scan# 3597  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion:146 Resp: 23807  
 Ion Ratio Lower Upper  
 146 100  
 111 40.1 21.4 64.2  
 148 63.1 32.4 97.2

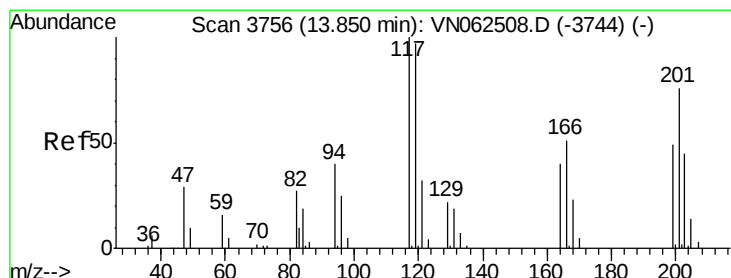
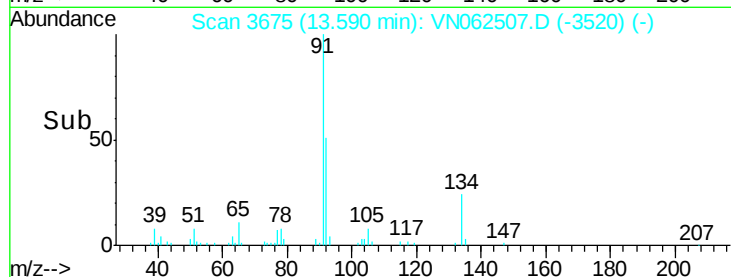
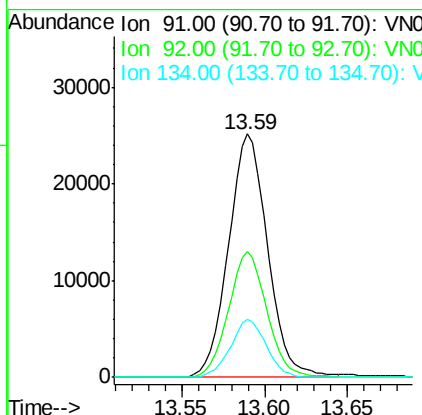
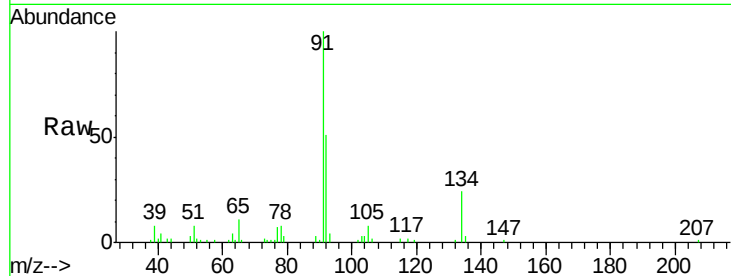




#85  
n-Butylbenzene  
Concen: 4.357 ug/l  
RT: 13.59 min Scan# 3675  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

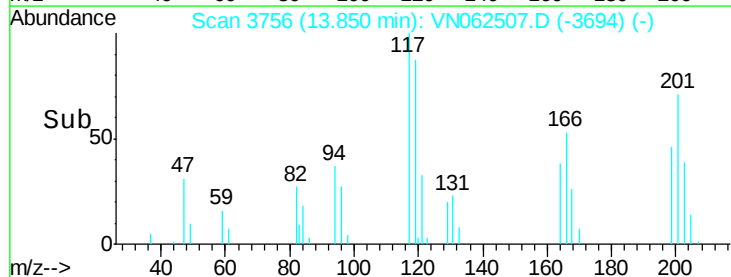
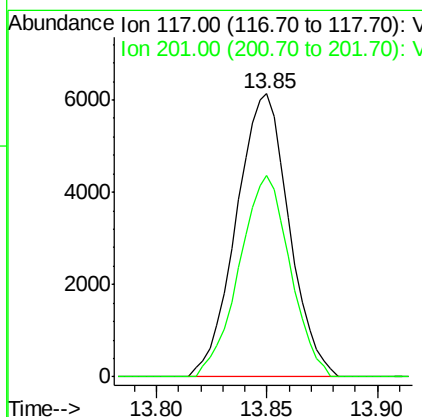
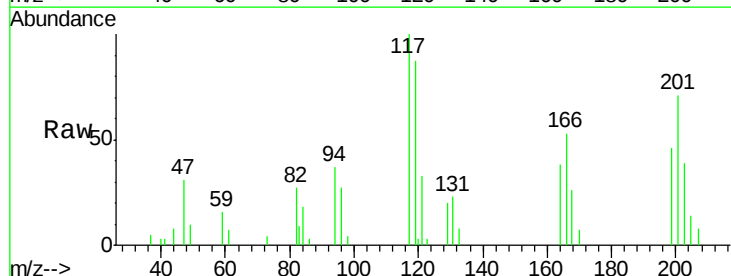
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

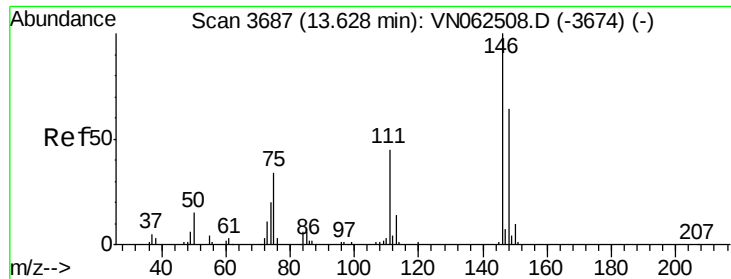
Tgt Ion: 91 Resp: 41355  
Ion Ratio Lower Upper  
91 100  
92 50.4 0.0 102.4  
134 21.5 0.0 46.6



#86  
Hexachloroethane  
Concen: 5.957 ug/l  
RT: 13.85 min Scan# 3756  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Tgt Ion: 117 Resp: 10244  
Ion Ratio Lower Upper  
117 100  
201 68.1 37.4 112.2

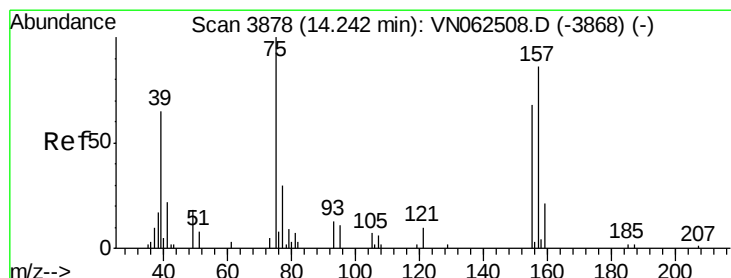
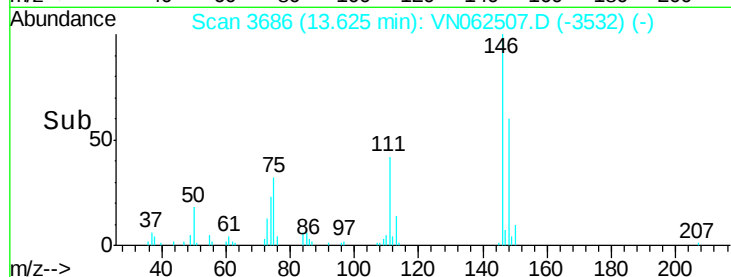
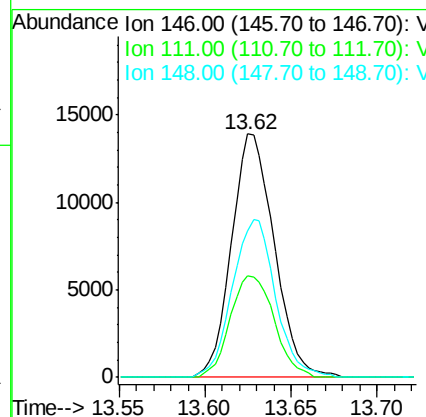
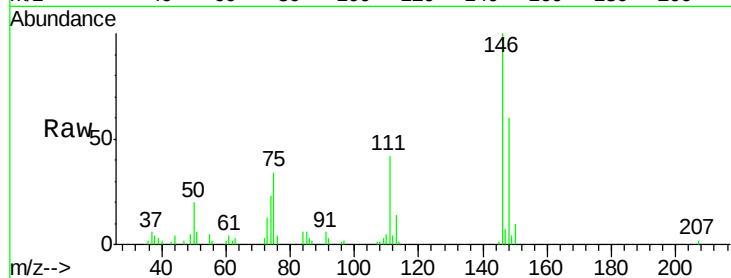




#87  
 1,2-Dichlorobenzene  
 Concen: 4.046 ug/l  
 RT: 13.62 min Scan# 3686  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

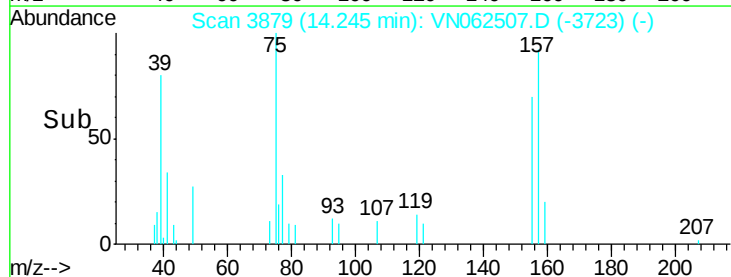
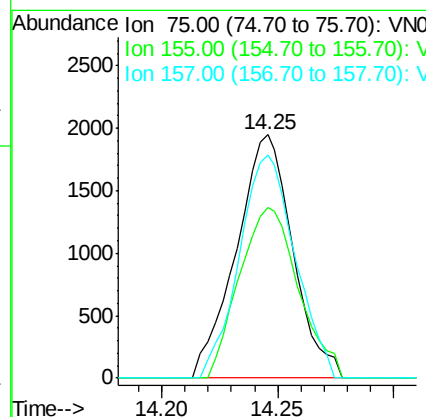
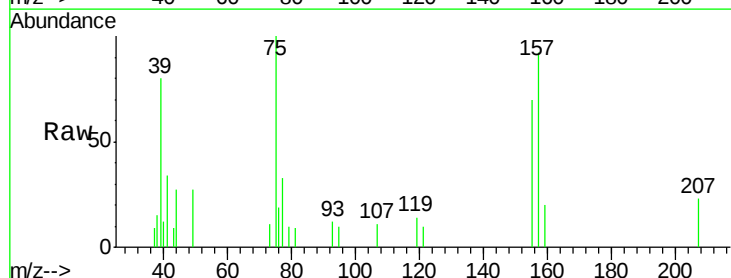
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

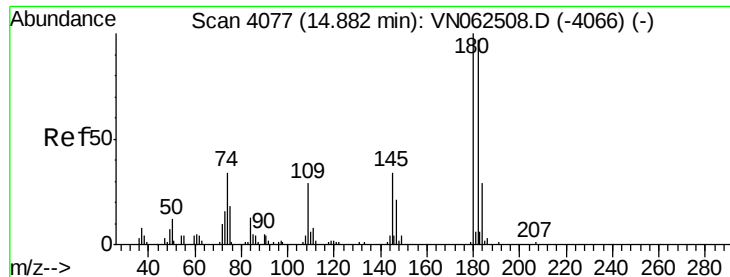
Tgt Ion: 146 Resp: 24034  
 Ion Ratio Lower Upper  
 146 100  
 111 42.8 22.4 67.0  
 148 65.3 32.1 96.3



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 4.714 ug/l  
 RT: 14.25 min Scan# 3879  
 Delta R.T. 0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion: 75 Resp: 3303  
 Ion Ratio Lower Upper  
 75 100  
 155 73.2 55.7 83.5  
 157 90.3 71.0 106.6

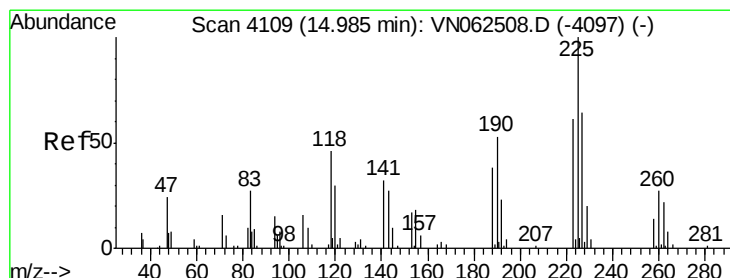
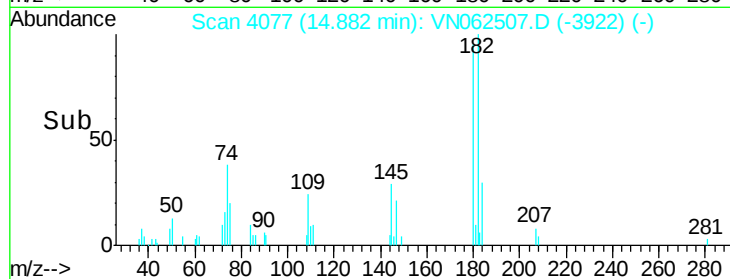
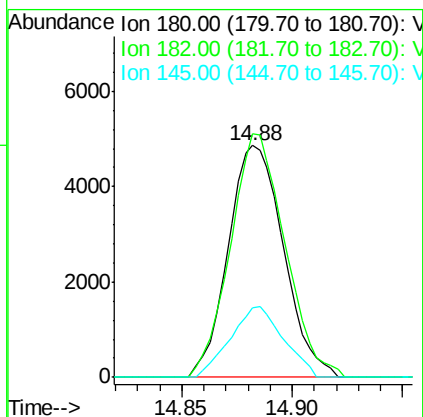
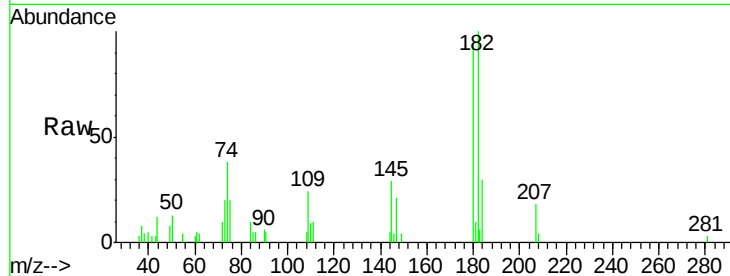




#89  
 1,2,4-Trichlorobenzene  
 Concen: 2.499 ug/l  
 RT: 14.88 min Scan# 4077  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

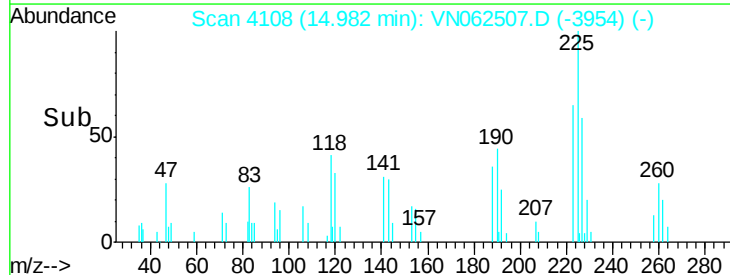
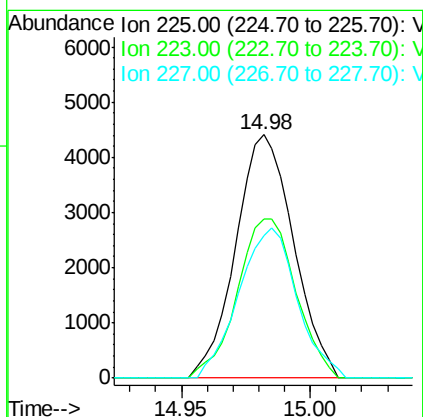
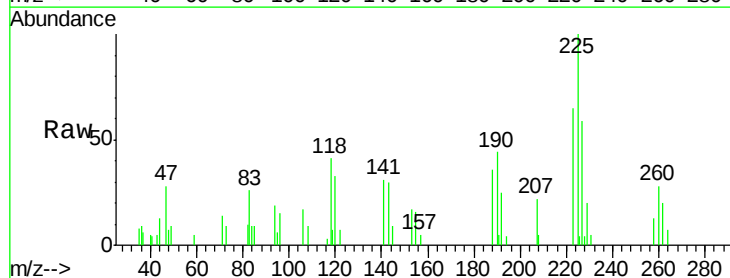
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005

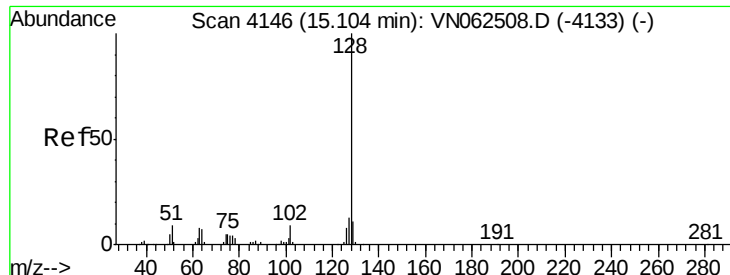
Tgt Ion:180 Resp: 8470  
 Ion Ratio Lower Upper  
 180 100  
 182 103.6 77.5 116.3  
 145 29.3 26.1 39.1



#90  
 Hexachlorobutadiene  
 Concen: 4.502 ug/l  
 RT: 14.98 min Scan# 4108  
 Delta R.T. -0.00 min  
 Lab File: VN062507.D  
 Acq: 13 Jul 2020 9:36

Tgt Ion:225 Resp: 6894  
 Ion Ratio Lower Upper  
 225 100  
 223 66.1 0.0 120.4  
 227 62.2 0.0 129.6

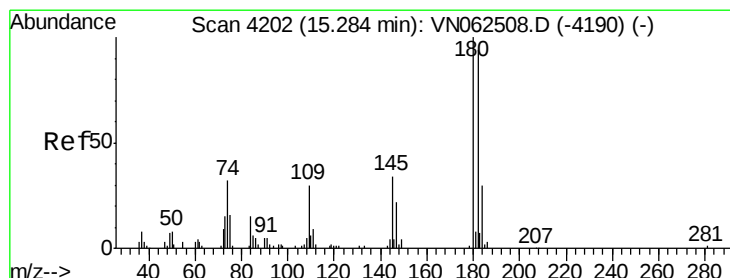
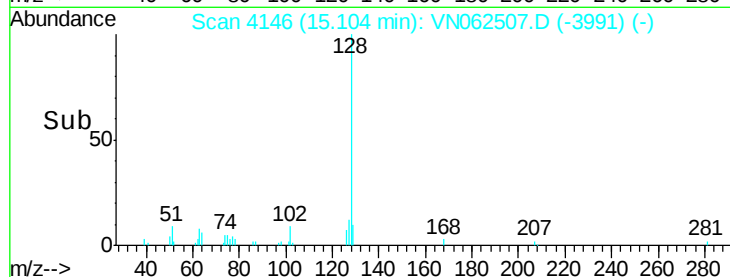
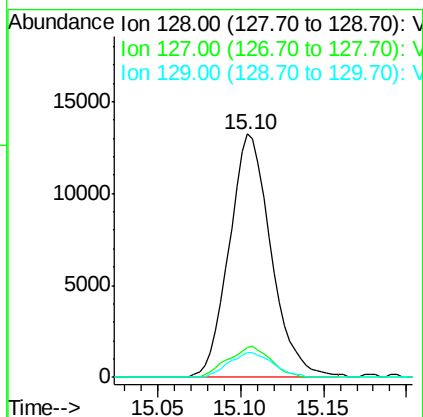
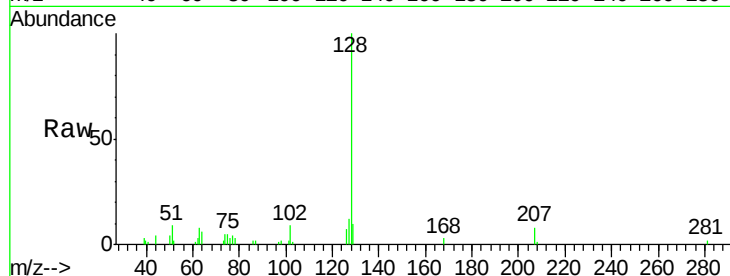




#91  
Naphthalene  
Concen: 2.470 ug/l  
RT: 15.10 min Scan# 4146  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:128 Resp: 23201  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.0 15.0  
129 10.7 8.8 13.2



#92  
1,2,3-Trichlorobenzene  
Concen: 2.779 ug/l  
RT: 15.28 min Scan# 4202  
Delta R.T. -0.00 min  
Lab File: VN062507.D  
Acq: 13 Jul 2020 9:36

Tgt Ion:180 Resp: 9258  
Ion Ratio Lower Upper  
180 100  
182 96.4 0.0 187.2  
145 32.1 0.0 67.8

