

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\  
 Data File : VN061522.D  
 Acq On : 21 May 2020 11:52  
 Operator : JC/MD  
 Sample : VN0521WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 22 07:11:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.62  | 168  | 321879   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 564936   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 525603   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 249657   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 7.98   | 65  | 208868   | 43.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.96%  |      |
| 35) Dibromofluoromethane    | 7.54   | 113 | 155834   | 52.65 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.30% |      |
| 50) Toluene-d8              | 10.06  | 98  | 671151   | 48.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.78%  |      |
| 62) 4-Bromofluorobenzene    | 12.37  | 95  | 248101   | 48.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.76%  |      |

| Target Compounds              |      |     |        |        | Qvalue   |
|-------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 54724  | 20.447 | ug/l 98  |
| 3) Chloromethane              | 2.03 | 50  | 74171  | 16.991 | ug/l 99  |
| 4) Vinyl Chloride             | 2.16 | 62  | 106633 | 17.068 | ug/l 100 |
| 5) Bromomethane               | 2.54 | 94  | 62940  | 17.314 | ug/l 97  |
| 6) Chloroethane               | 2.67 | 64  | 70629  | 16.796 | ug/l 98  |
| 7) Trichlorofluoromethane     | 2.98 | 101 | 155929 | 20.558 | ug/l 99  |
| 8) Diethyl Ether              | 3.37 | 74  | 42855  | 19.398 | ug/l 91  |
| 9) 1,1,2-Trichlorotrifluoroet | 3.71 | 101 | 66922  | 21.217 | ug/l 97  |
| 10) Methyl Iodide             | 3.91 | 142 | 81692  | 21.324 | ug/l 98  |
| 11) Tert butyl alcohol        | 4.73 | 59  | 54498  | 98.457 | ug/l 97  |
| 12) 1,1-Dichloroethene        | 3.69 | 96  | 65007  | 19.703 | ug/l 90  |
| 13) Acrolein                  | 3.56 | 56  | 36215  | 78.479 | ug/l 97  |
| 14) Allyl chloride            | 4.27 | 41  | 90529  | 16.860 | ug/l 97  |
| 15) Acrylonitrile             | 4.92 | 53  | 142355 | 86.807 | ug/l 99  |
| 16) Acetone                   | 3.77 | 43  | 120689 | 90.922 | ug/l 96  |
| 17) Carbon Disulfide          | 4.00 | 76  | 155605 | 20.065 | ug/l 98  |
| 18) Methyl Acetate            | 4.27 | 43  | 59765  | 17.444 | ug/l 96  |
| 19) Methyl tert-butyl Ether   | 4.98 | 73  | 230873 | 18.440 | ug/l 95  |
| 20) Methylene Chloride        | 4.50 | 84  | 76309  | 19.328 | ug/l 90  |
| 21) trans-1,2-Dichloroethene  | 4.98 | 96  | 74277  | 19.524 | ug/l 94  |
| 22) Diisopropyl ether         | 5.90 | 45  | 207546 | 17.201 | ug/l 97  |
| 23) Vinyl Acetate             | 5.84 | 43  | 809485 | 84.366 | ug/l 96  |
| 24) 1,1-Dichloroethane        | 5.79 | 63  | 128965 | 18.325 | ug/l 99  |
| 25) 2-Butanone                | 6.78 | 43  | 181507 | 82.984 | ug/l 96  |
| 26) 2,2-Dichloropropane       | 6.77 | 77  | 123102 | 18.349 | ug/l 97  |
| 27) cis-1,2-Dichloroethene    | 6.77 | 96  | 87559  | 19.484 | ug/l 91  |
| 28) Bromochloromethane        | 7.14 | 49  | 57945  | 19.397 | ug/l 86  |
| 29) Tetrahydrofuran           | 7.16 | 42  | 119036 | 82.176 | ug/l 94  |
| 30) Chloroform                | 7.32 | 83  | 143638 | 19.541 | ug/l 99  |
| 31) Cyclohexane               | 7.61 | 56  | 115282 | 16.623 | ug/l 92  |
| 32) 1,1,1-Trichloroethane     | 7.52 | 97  | 130563 | 19.438 | ug/l 97  |
| 36) 1,1-Dichloropropene       | 7.75 | 75  | 103830 | 19.656 | ug/l 98  |
| 37) Ethyl Acetate             | 6.88 | 43  | 79269  | 16.547 | ug/l 99  |
| 38) Carbon Tetrachloride      | 7.73 | 117 | 98935  | 20.340 | ug/l 100 |

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 Sample : VN0521WBS01  
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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 22 07:11:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 18 13:09:55 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 9.04  | 83   | 120597   | 18.692  | ug/l   | 94       |
| 40) Benzene                    | 8.00  | 78   | 313872   | 19.717  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.16  | 41   | 110666   | 54.694  | ug/l # | 15       |
| 42) 1,2-Dichloroethane         | 8.08  | 62   | 107075   | 18.669  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.12  | 43   | 139923   | 16.747  | ug/l   | 98       |
| 44) Trichloroethene            | 8.80  | 130  | 91476    | 21.930  | ug/l   | 96       |
| 45) 1,2-Dichloropropane        | 9.08  | 63   | 75719    | 19.003  | ug/l   | 99       |
| 46) Dibromomethane             | 9.17  | 93   | 54810    | 19.622  | ug/l   | 94       |
| 47) Bromodichloromethane       | 9.37  | 83   | 114017   | 19.373  | ug/l   | 99       |
| 48) Methyl methacrylate        | 9.17  | 41   | 60681    | 15.721  | ug/l   | 94       |
| 49) 1,4-Dioxane                | 9.16  | 88   | 25396    | 610.884 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone       | 9.95  | 43   | 398028   | 87.448  | ug/l   | 99       |
| 52) Toluene                    | 10.12 | 92   | 208888   | 20.439  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene      | 10.35 | 75   | 120644   | 18.703  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene    | 9.81  | 75   | 130613   | 19.048  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane      | 10.53 | 97   | 80937    | 20.947  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.40 | 69   | 112692   | 18.655  | ug/l   | 95       |
| 57) 1,3-Dichloropropane        | 10.68 | 76   | 131269   | 19.658  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.66  | 63   | 233899   | 88.213  | ug/l   | 94       |
| 59) 2-Hexanone                 | 10.72 | 43   | 280061   | 85.047  | ug/l   | 97       |
| 60) Dibromochloromethane       | 10.87 | 129  | 88079    | 20.608  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 10.98 | 107  | 82212    | 20.236  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.60 | 164  | 90730    | 22.313  | ug/l   | 96       |
| 65) Chlorobenzene              | 11.40 | 112  | 224946   | 20.987  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.48 | 131  | 81596    | 21.235  | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.48 | 91   | 398573   | 20.372  | ug/l   | 97       |
| 68) m/p-Xylenes                | 11.59 | 106  | 311117   | 41.894  | ug/l   | 96       |
| 69) o-Xylene                   | 11.92 | 106  | 148572   | 20.674  | ug/l   | 96       |
| 70) Styrene                    | 11.94 | 104  | 244560   | 20.550  | ug/l   | 98       |
| 71) Bromoform                  | 12.10 | 173  | 54868    | 19.641  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.22 | 105  | 393047   | 19.611  | ug/l   | 98       |
| 74) N-amyl acetate             | 12.04 | 43   | 117803   | 16.058  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.48 | 83   | 103317   | 18.737  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 12.53 | 75   | 135209   | 25.240  | ug/l # | 100      |
| 77) Bromobenzene               | 12.50 | 156  | 94102    | 21.634  | ug/l   | 87       |
| 78) n-propylbenzene            | 12.56 | 91   | 440801   | 19.303  | ug/l   | 97       |
| 79) 2-Chlorotoluene            | 12.65 | 91   | 259361   | 19.215  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene     | 12.71 | 105  | 326698   | 19.908  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-buten | 12.27 | 75   | 32944    | 16.314  | ug/l   | 95       |
| 82) 4-Chlorotoluene            | 12.74 | 91   | 270460   | 19.351  | ug/l   | 97       |
| 83) tert-Butylbenzene          | 12.97 | 119  | 276206   | 19.649  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene     | 13.01 | 105  | 330111   | 20.100  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.15 | 105  | 363228   | 19.109  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.26 | 119  | 334840   | 19.838  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene        | 13.26 | 146  | 166596   | 20.928  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene        | 13.34 | 146  | 168199   | 21.098  | ug/l   | 99       |
| 89) n-Butylbenzene             | 13.59 | 91   | 280993   | 18.325  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.85 | 117  | 42995    | 18.796  | ug/l   | 97       |
| 91) 1,2-Dichlorobenzene        | 13.63 | 146  | 160787   | 21.057  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.24 | 75   | 19414    | 17.429  | ug/l   | 92       |

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Sample : VN0521WBS01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 4 Sample Multiplier: 1

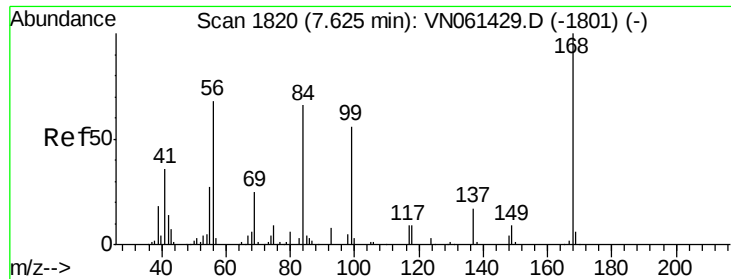
Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: May 22 07:11:22 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N051820W.M  
Quant Title : SW846 8260  
QLast Update : Mon May 18 13:09:55 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.88 | 180  | 85349    | 20.614 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 14.98 | 225  | 37013    | 20.120 | ug/l  | 99       |
| 95) Naphthalene            | 15.10 | 128  | 261779   | 19.888 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.28 | 180  | 86022    | 20.870 | ug/l  | 98       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

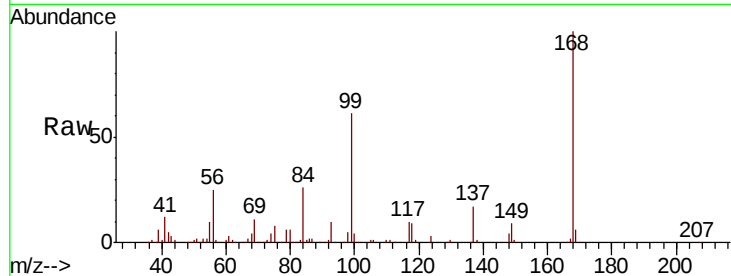
ClientSampleId :

Tot Ion:168 Resp: 321879

Ion Ratio Lower Upper

168 100

99 60.9 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

150000

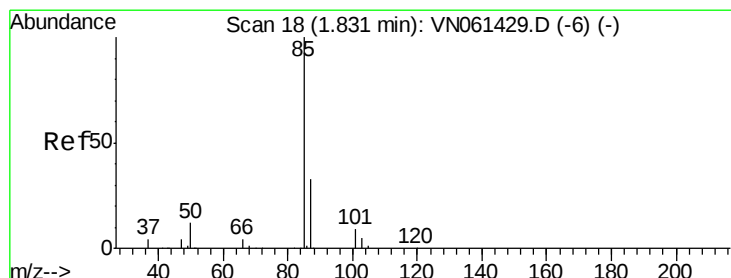
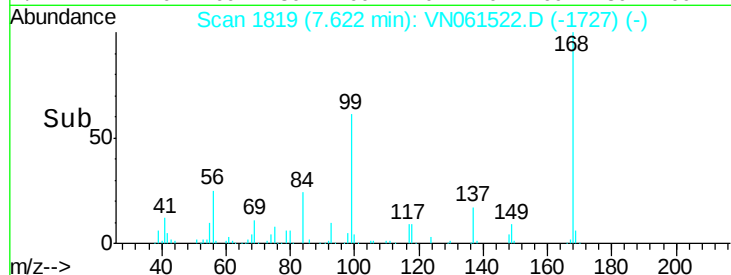
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50000

0

7.50 7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 20.447 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061522.D

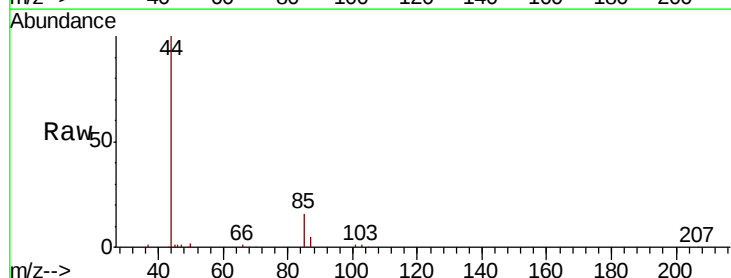
Acq: 21 May 2020 11:52

Tgt Ion: 85 Resp: 54724

Ion Ratio Lower Upper

85 100

87 33.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

40000

30000

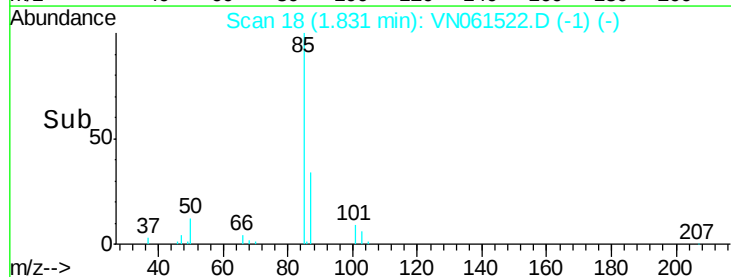
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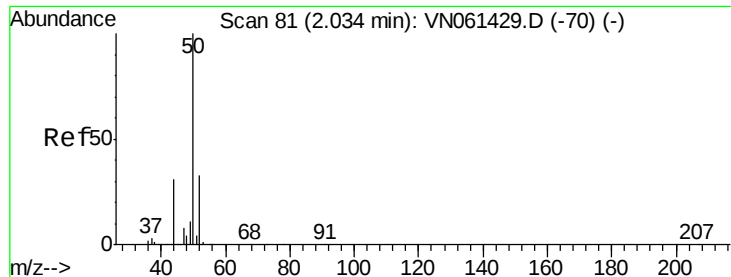
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0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 16.991 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

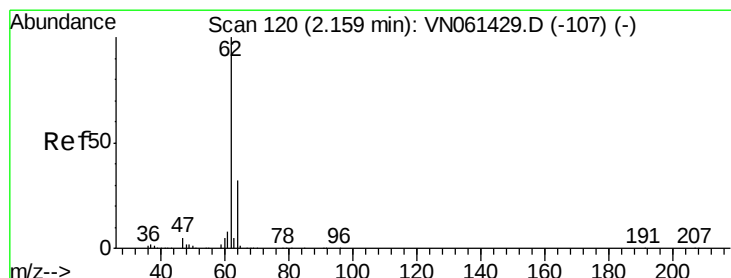
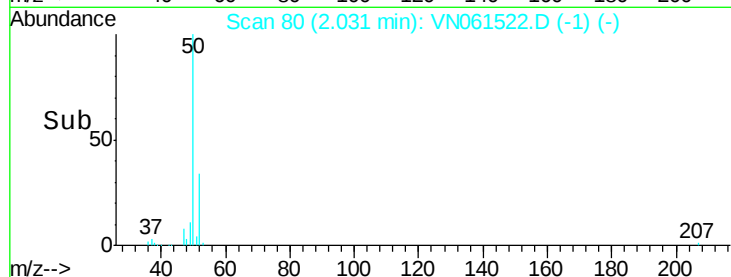
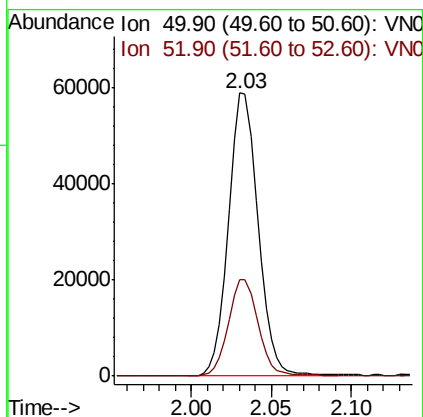
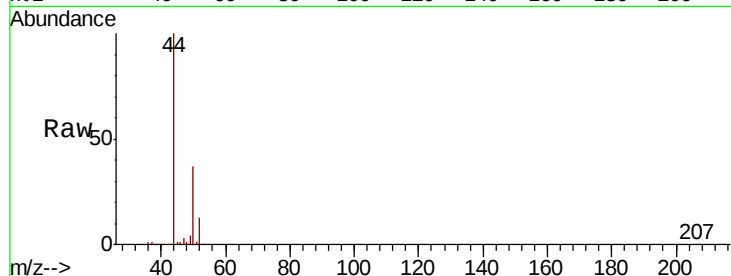
ClientSampled :

Tot Ion: 50 Resp: 74171

Ion Ratio Lower Upper

50 100

52 34.0 26.7 40.1



#4

Vinyl Chloride

Concen: 17.068 ug/l

RT: 2.16 min Scan# 119

Delta R.T. -0.00 min

Lab File: VN061522.D

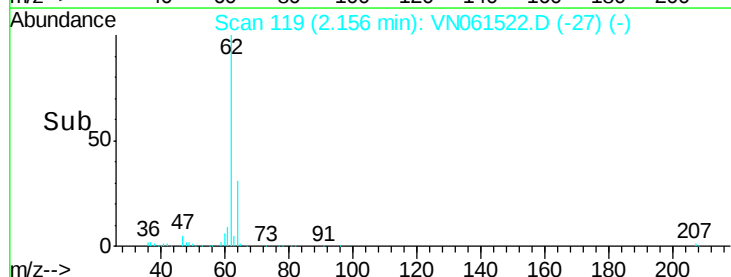
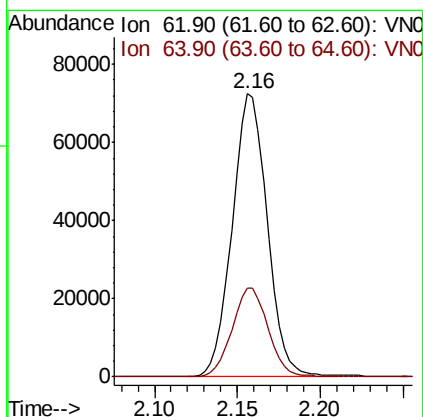
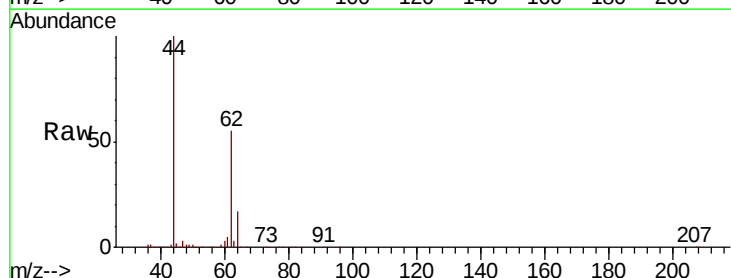
Acq: 21 May 2020 11:52

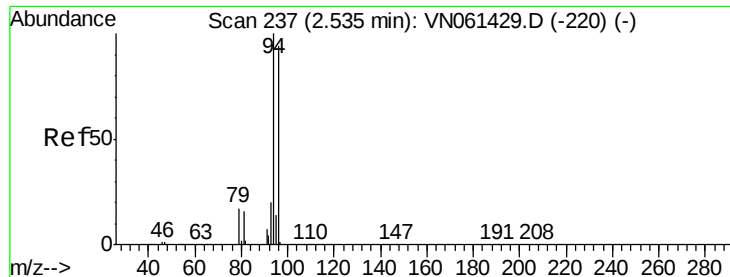
Tgt Ion: 62 Resp: 106633

Ion Ratio Lower Upper

62 100

64 31.3 25.3 37.9





#5

Bromomethane

Concen: 17.314 ug/l

RT: 2.54 min Scan# 237

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

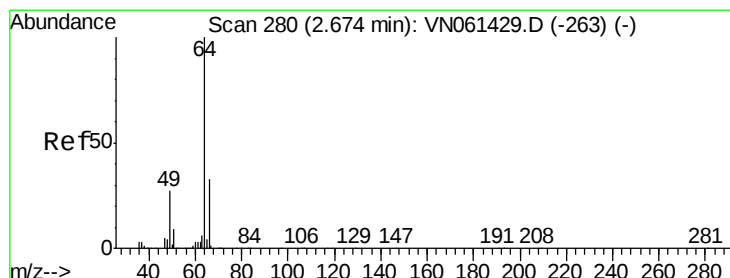
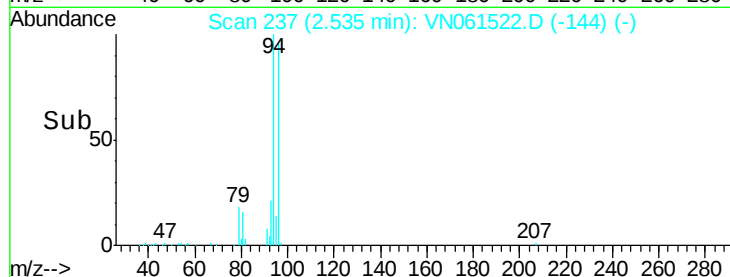
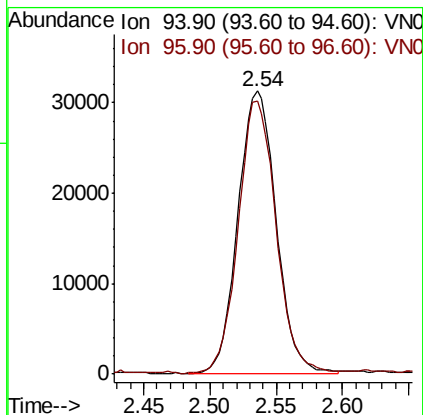
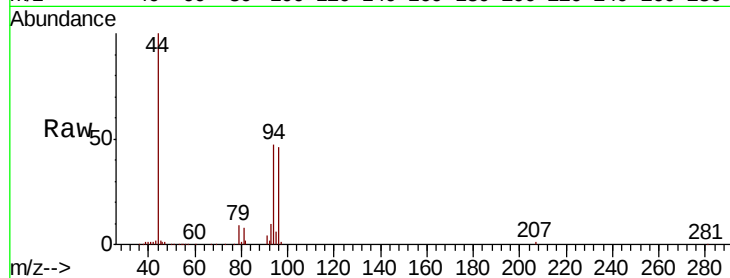
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 94 Resp: 62940

Ion Ratio Lower Upper

94 100

96 96.1 74.9 112.3



#6

Chloroethane

Concen: 16.796 ug/l

RT: 2.67 min Scan# 279

Delta R.T. -0.00 min

Lab File: VN061522.D

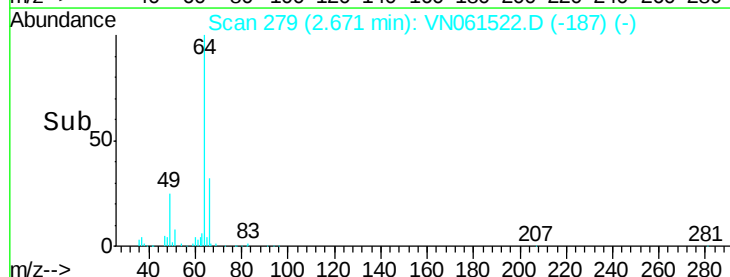
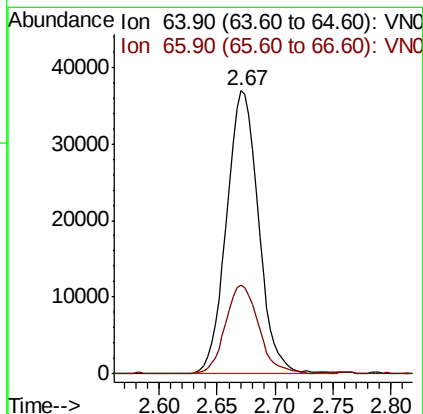
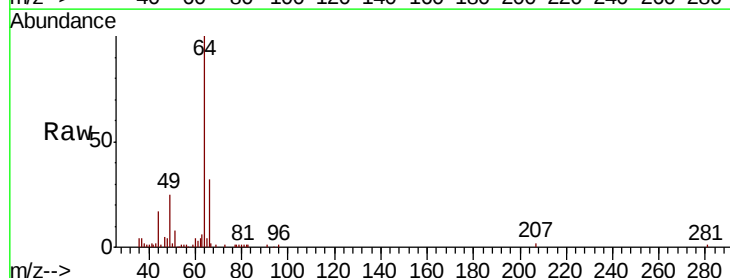
Acq: 21 May 2020 11:52

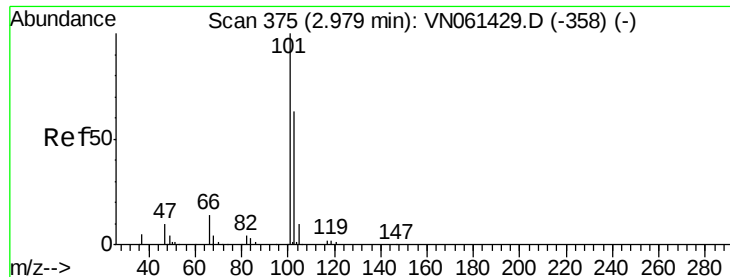
Tgt Ion: 64 Resp: 70629

Ion Ratio Lower Upper

64 100

66 31.6 26.3 39.5



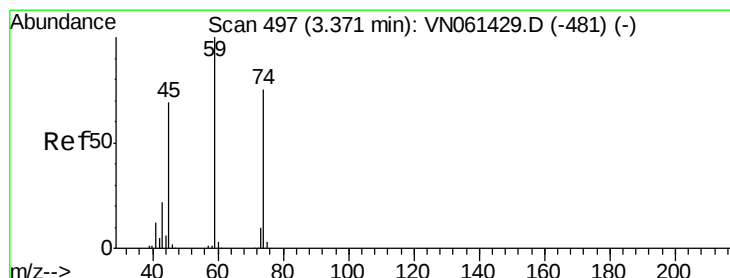
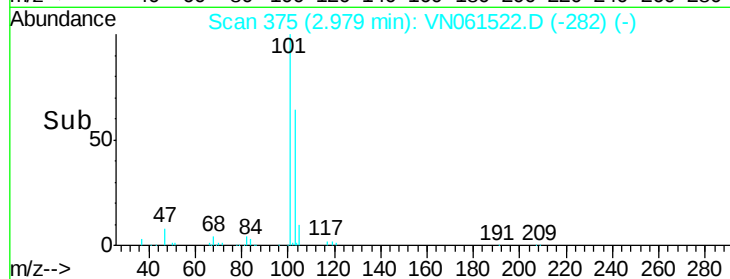
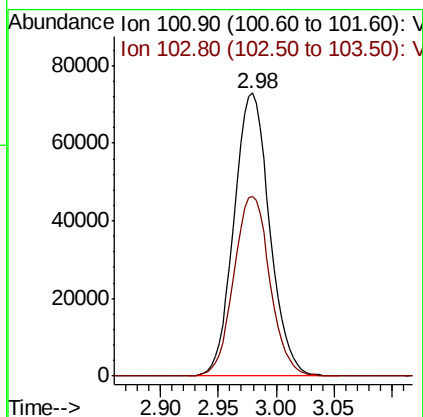
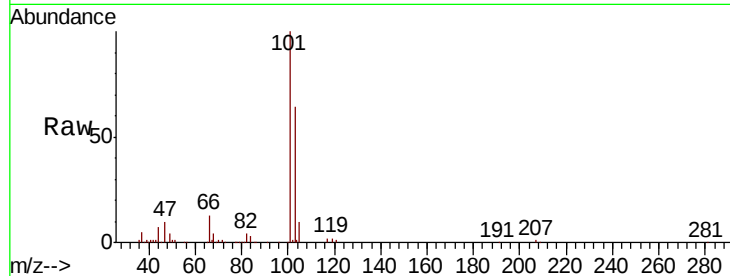


#7

Trichlorofluoromethane  
Concen: 20.558 ug/l  
RT: 2.98 min Scan# 375  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampled :

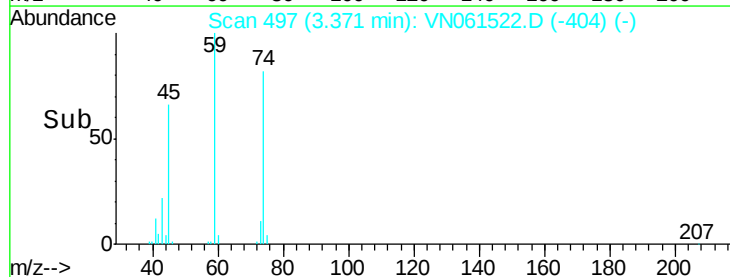
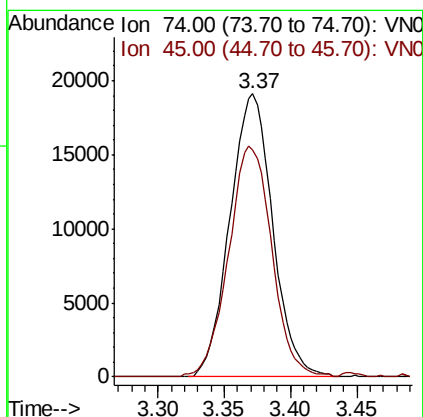
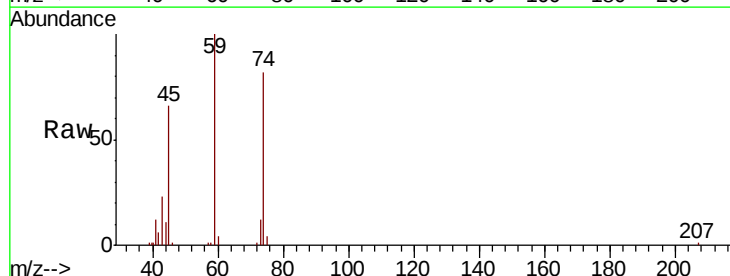
Tot Ion:101 Resp: 155929  
Ion Ratio Lower Upper  
101 100  
103 63.7 50.2 75.4

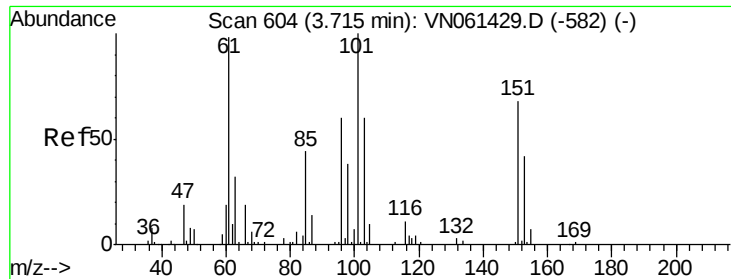


#8

Diethyl Ether  
Concen: 19.398 ug/l  
RT: 3.37 min Scan# 497  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 74 Resp: 42855  
Ion Ratio Lower Upper  
74 100  
45 82.4 45.7 137.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.217 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampled :

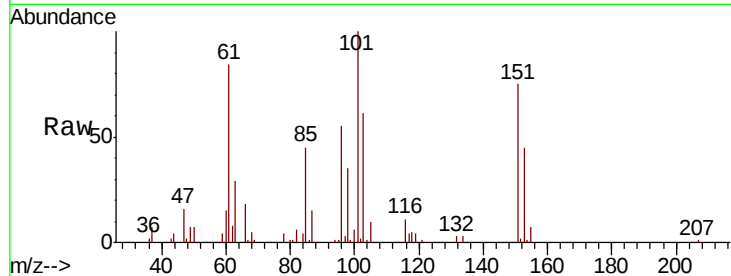
Tot Ion:101 Resp: 66922

Ion Ratio Lower Upper

101 100

85 44.6 36.6 55.0

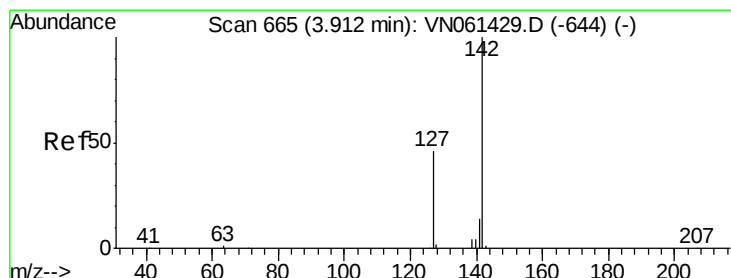
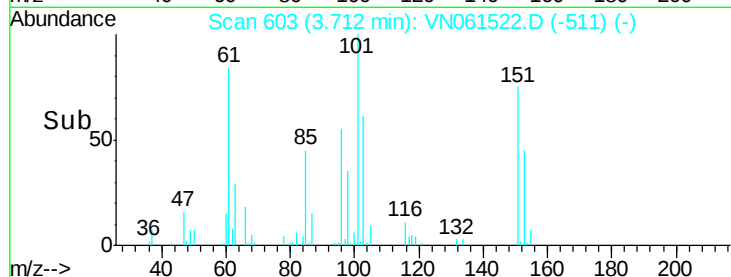
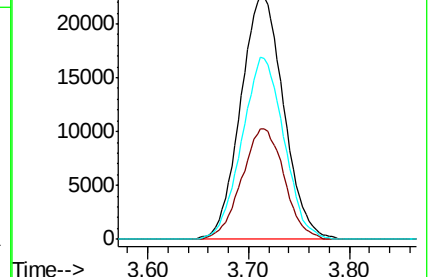
151 72.9 56.3 84.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 21.324 ug/l

RT: 3.91 min Scan# 664

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

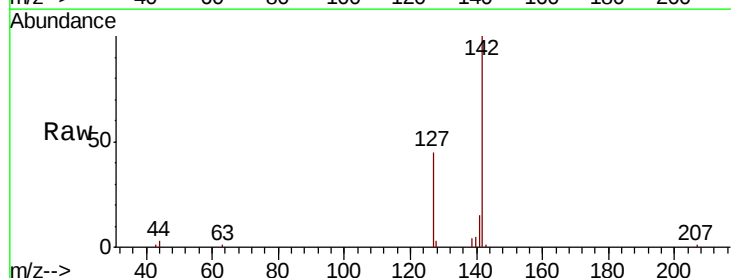
Tgt Ion:142 Resp: 81692

Ion Ratio Lower Upper

142 100

127 44.6 36.7 55.1

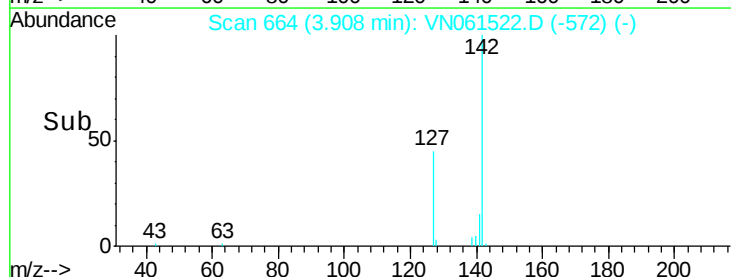
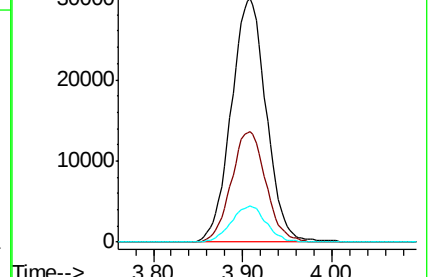
141 14.6 11.5 17.3

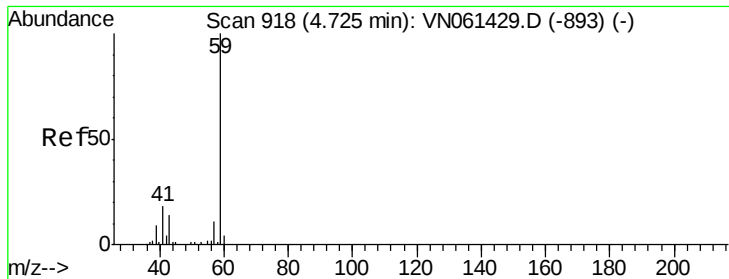


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



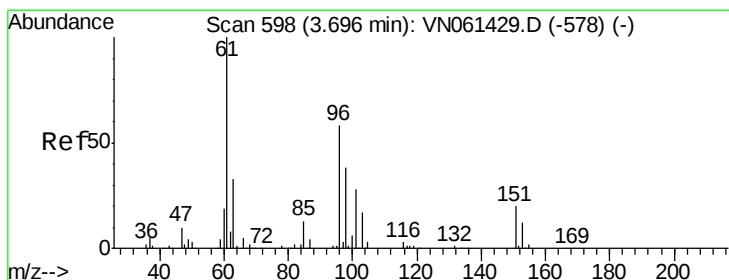
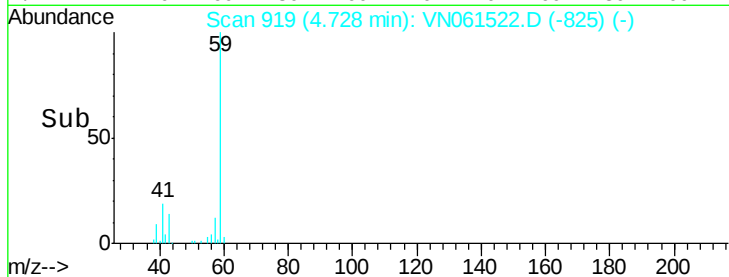
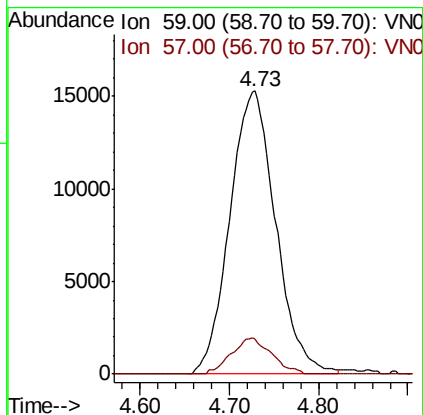
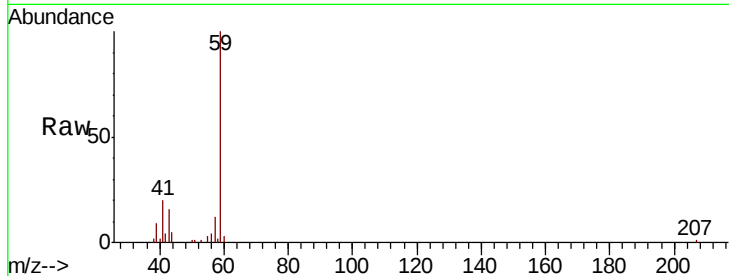


#11

Tert butyl alcohol  
Concen: 98.457 ug/l  
RT: 4.73 min Scan# 919  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampleId :

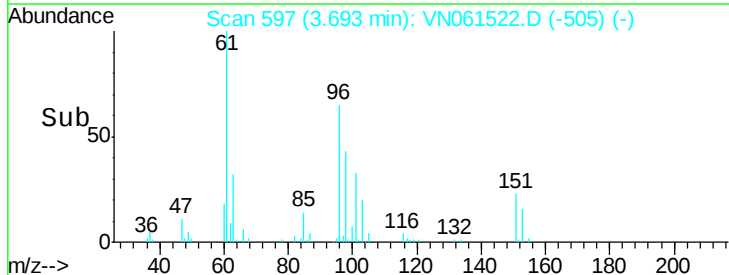
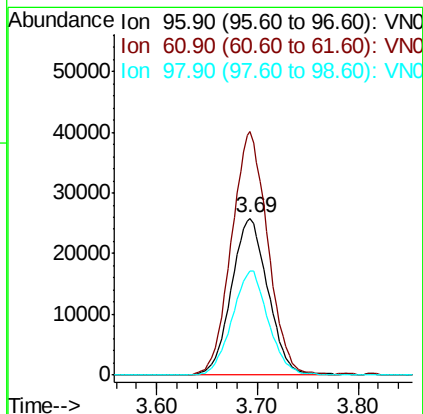
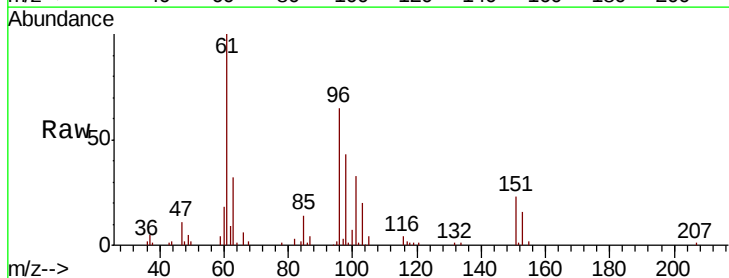
Tot Ion: 59 Resp: 54498  
Ion Ratio Lower Upper  
59 100  
57 11.3 8.2 12.2

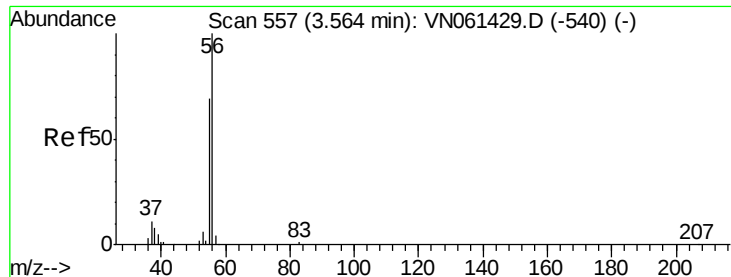


#12

1,1-Dichloroethene  
Concen: 19.703 ug/l  
RT: 3.69 min Scan# 597  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 96 Resp: 65007  
Ion Ratio Lower Upper  
96 100  
61 154.9 138.7 208.1  
98 66.6 53.0 79.6





#13

Acrolein

Concen: 78.479 ug/l

RT: 3.56 min Scan# 556

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

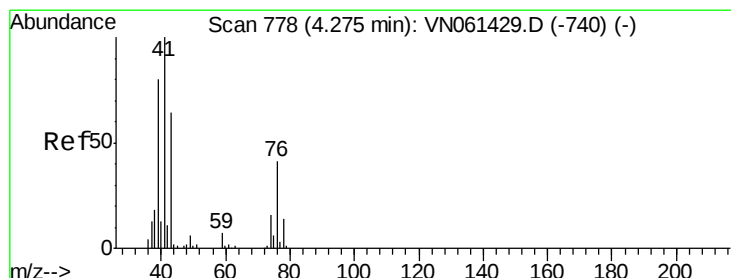
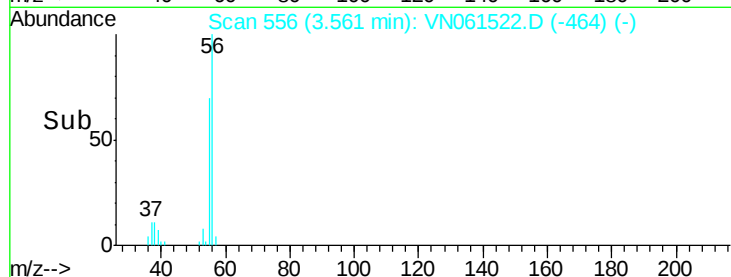
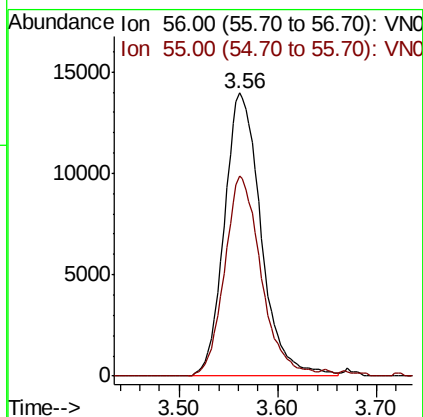
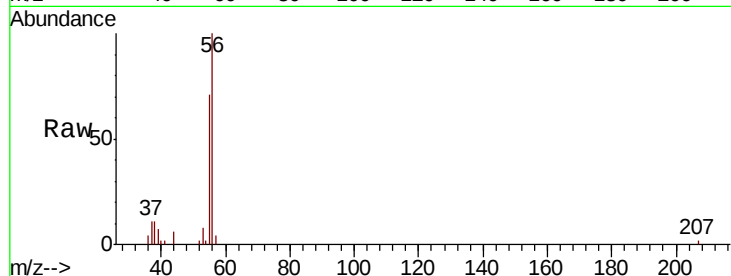
ClientSampled :

Tot Ion: 56 Resp: 36215

Ion Ratio Lower Upper

56 100

55 70.6 54.8 82.2



#14

Allyl chloride

Concen: 16.860 ug/l

RT: 4.27 min Scan# 777

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

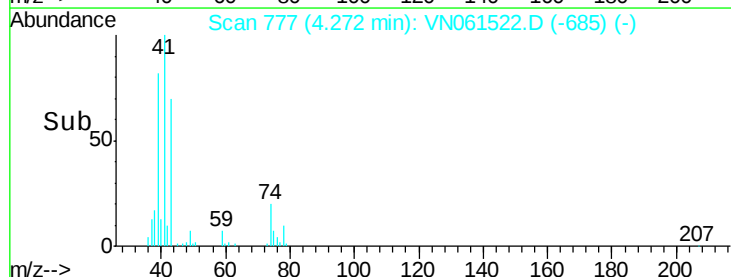
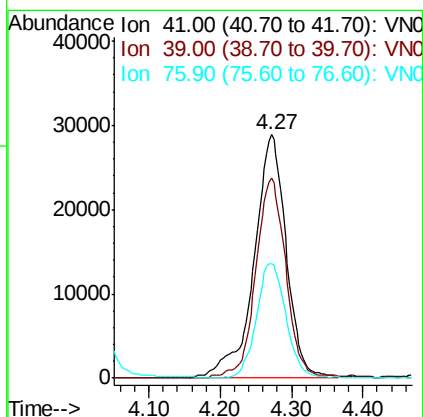
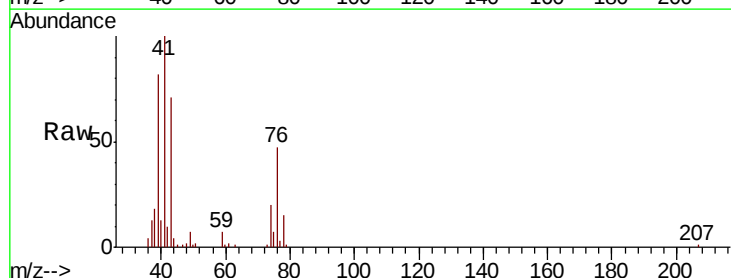
Tgt Ion: 41 Resp: 90529

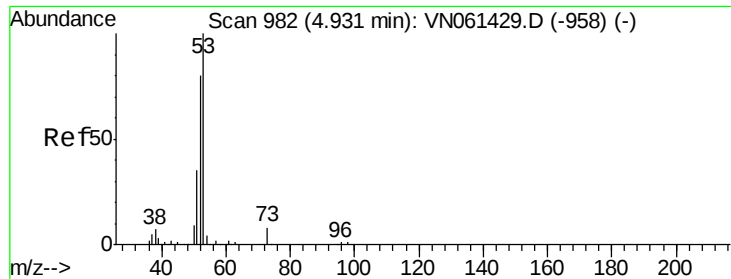
Ion Ratio Lower Upper

41 100

39 76.2 61.2 91.8

76 43.1 29.9 44.9





#15

Acrylonitrile

Concen: 86.807 ug/l

RT: 4.92 min Scan# 980

Delta R.T. -0.01 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampled :

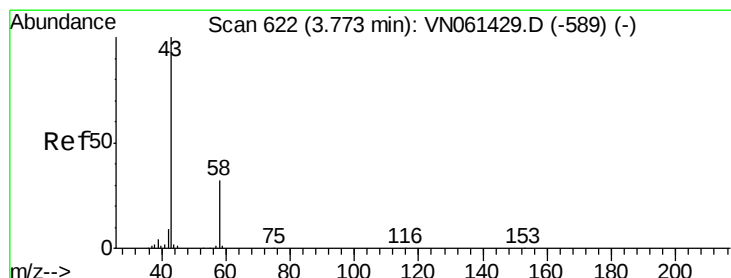
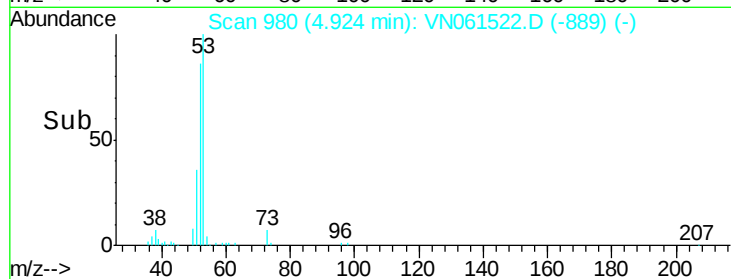
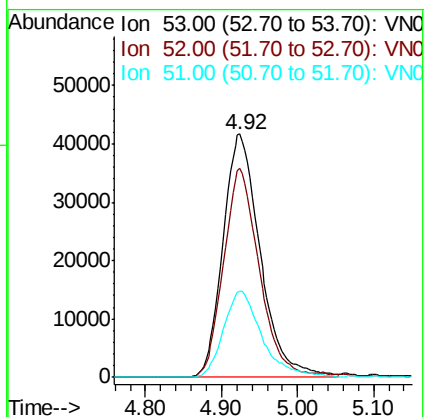
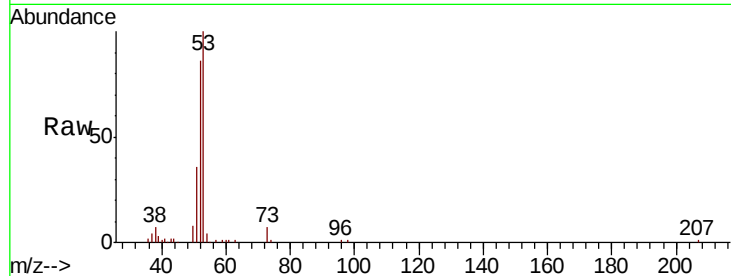
Tot Ion: 53 Resp: 142355

Ion Ratio Lower Upper

53 100

52 81.9 64.7 97.1

51 36.5 29.5 44.3



#16

Acetone

Concen: 90.922 ug/l

RT: 3.77 min Scan# 621

Delta R.T. -0.00 min

Lab File: VN061522.D

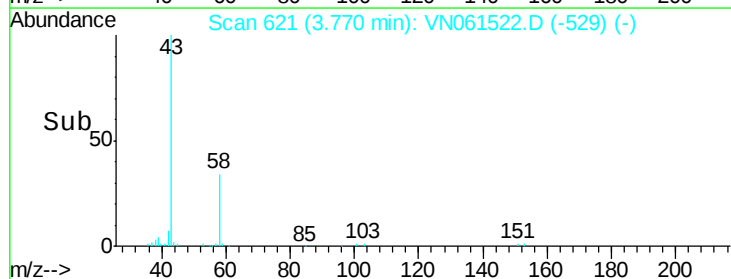
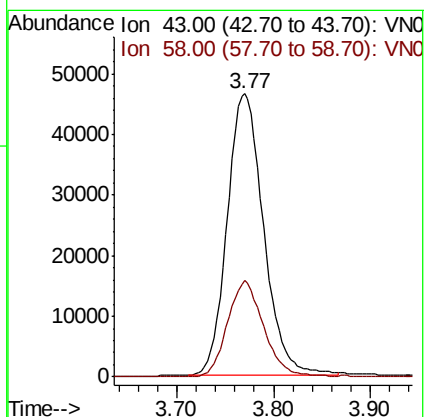
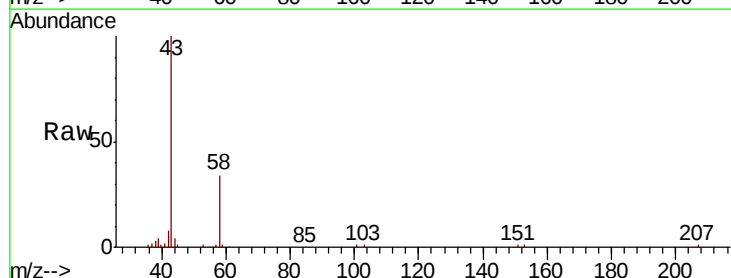
Acq: 21 May 2020 11:52

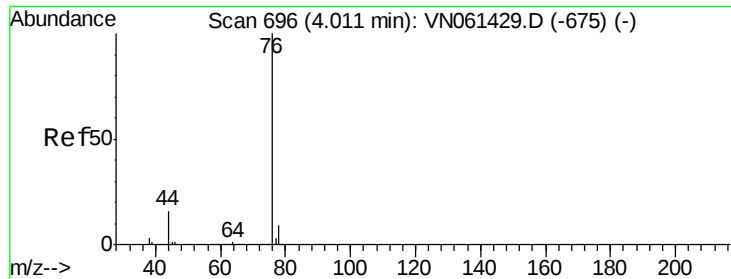
Tgt Ion: 43 Resp: 120689

Ion Ratio Lower Upper

43 100

58 34.2 25.6 38.4

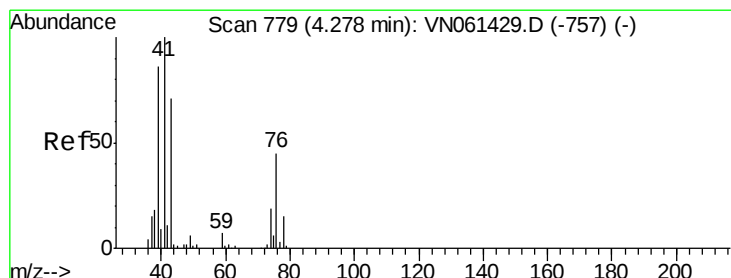
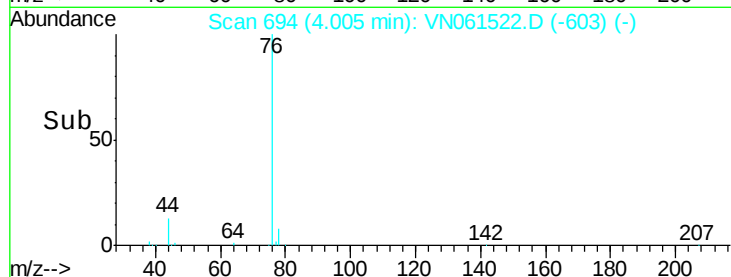
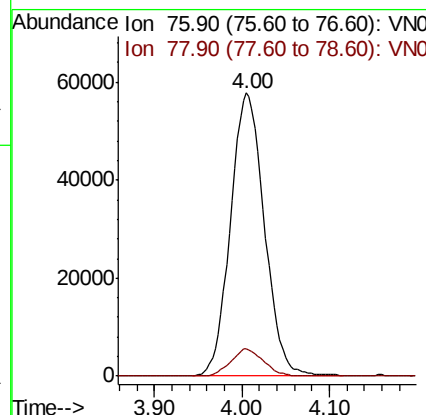
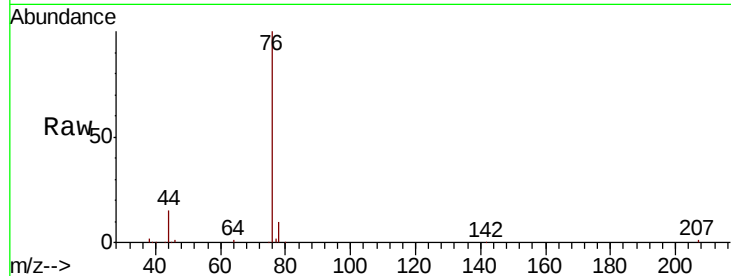




#17  
Carbon Disulfide  
Concen: 20.065 ug/l  
RT: 4.00 min Scan# 694  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

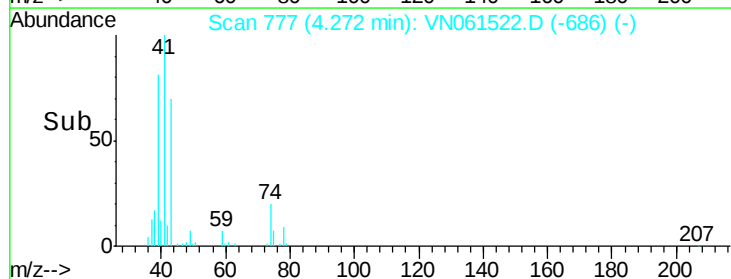
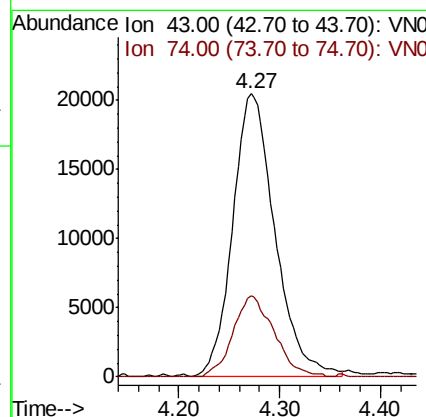
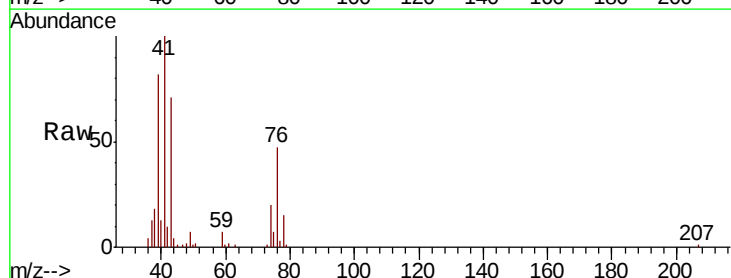
Instrument :  
MSVOA\_N  
ClientSampleId :

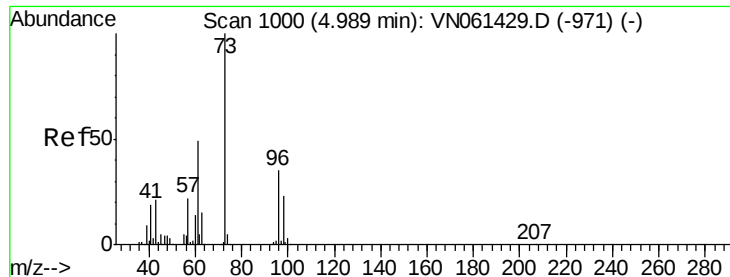
Tot Ion: 76 Resp: 155605  
Ion Ratio Lower Upper  
76 100  
78 9.9 7.4 11.0



#18  
Methyl Acetate  
Concen: 17.444 ug/l  
RT: 4.27 min Scan# 777  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 43 Resp: 59765  
Ion Ratio Lower Upper  
43 100  
74 27.9 20.8 31.2

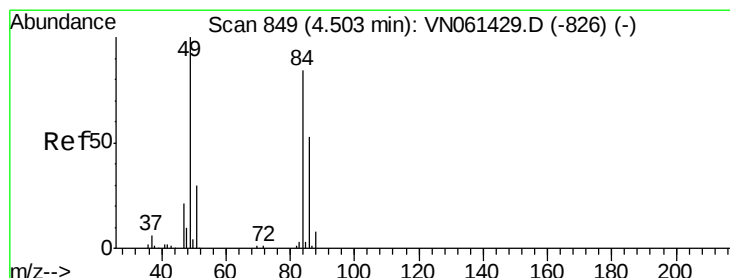
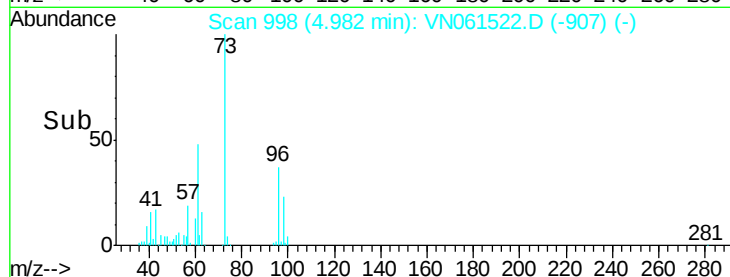
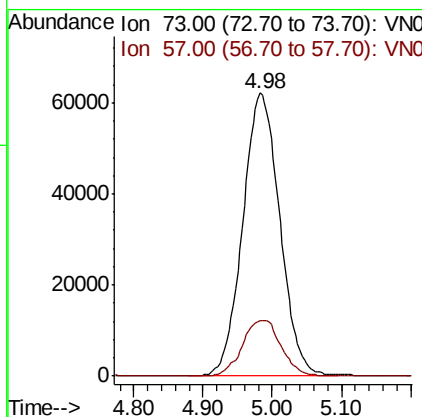
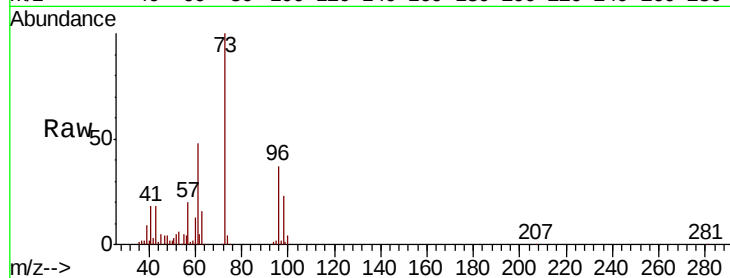




#19  
Methvl tert-butvl Ether  
Concen: 18.440 ug/l  
RT: 4.98 min Scan# 998  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

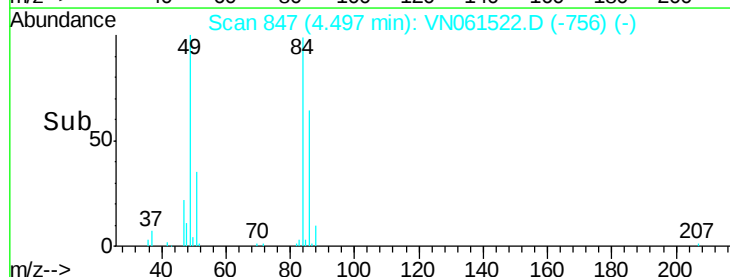
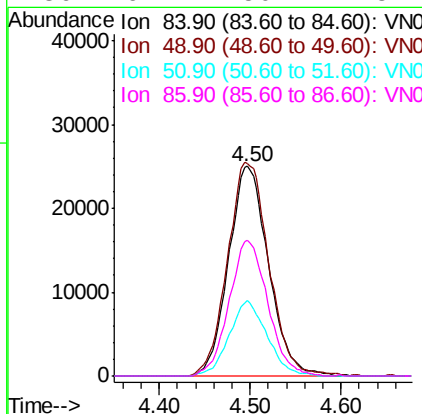
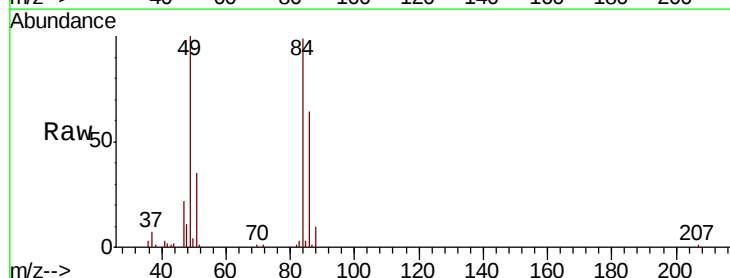
Instrument :  
MSVOA\_N  
ClientSampleId :

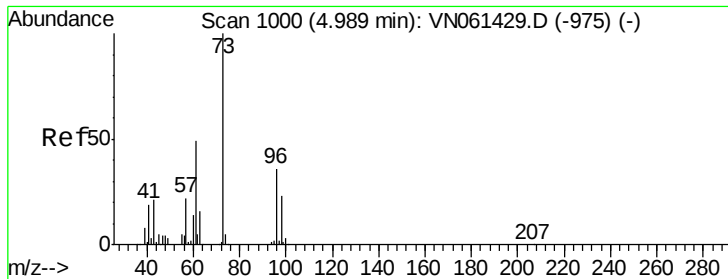
Tot Ion: 73 Resp: 230873  
Ion Ratio Lower Upper  
73 100  
57 19.5 17.4 26.0



#20  
Methylene Chloride  
Concen: 19.328 ug/l  
RT: 4.50 min Scan# 847  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 84 Resp: 76309  
Ion Ratio Lower Upper  
84 100  
49 101.1 95.3 142.9  
51 35.8 29.0 43.6  
86 64.7 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 19.524 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.01 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampled :

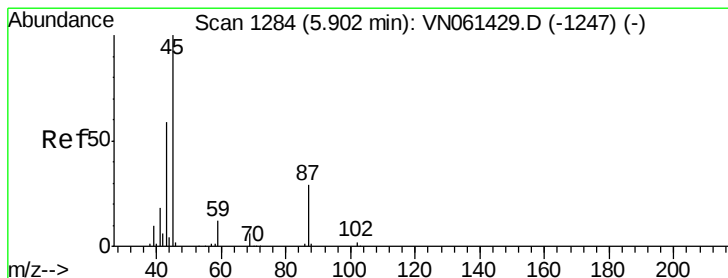
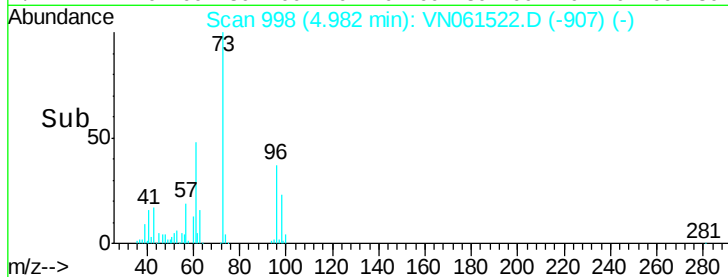
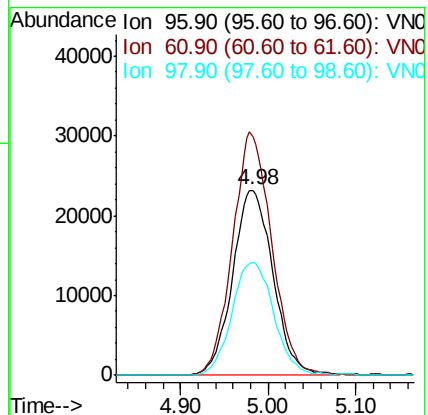
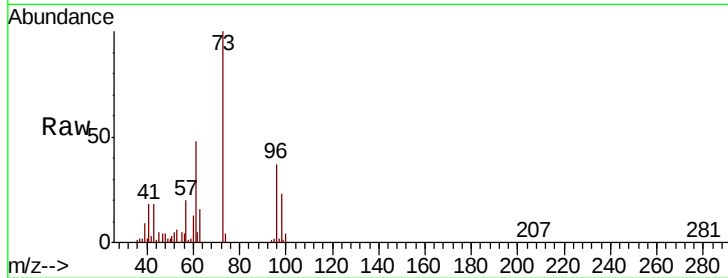
Tot Ion: 96 Resp: 74277

Ion Ratio Lower Upper

96 100

61 129.4 109.8 164.6

98 61.0 52.4 78.6



#22

Diisopropyl ether

Concen: 17.201 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Tgt Ion: 45 Resp: 207546

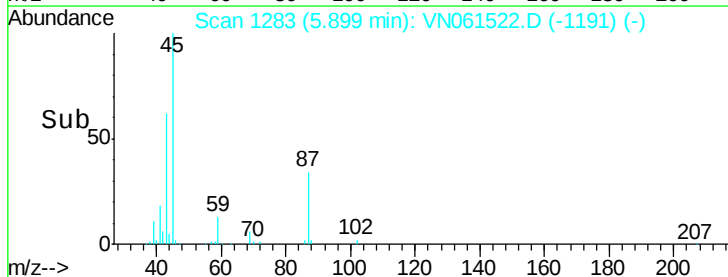
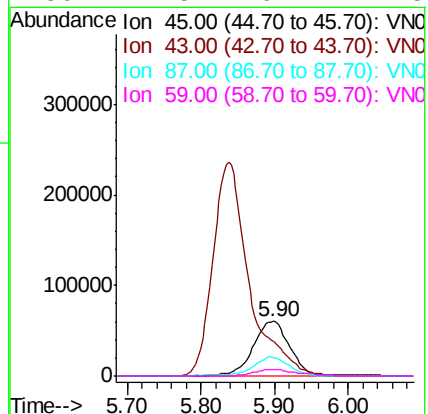
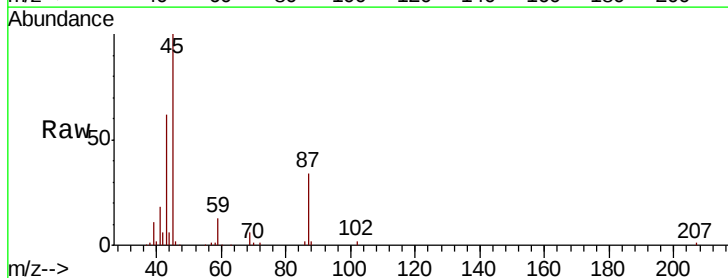
Ion Ratio Lower Upper

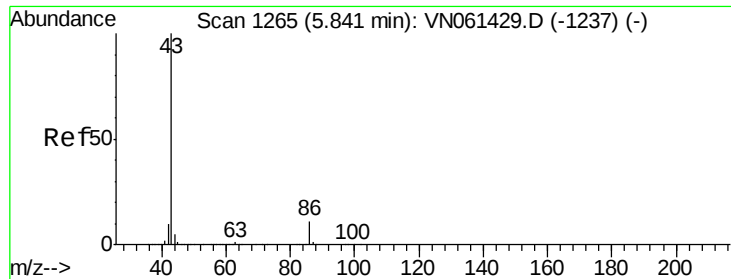
45 100

43 60.4 47.9 71.9

87 33.8 24.0 36.0

59 12.5 9.7 14.5





#23

Vinyl Acetate

Concen: 84.366 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

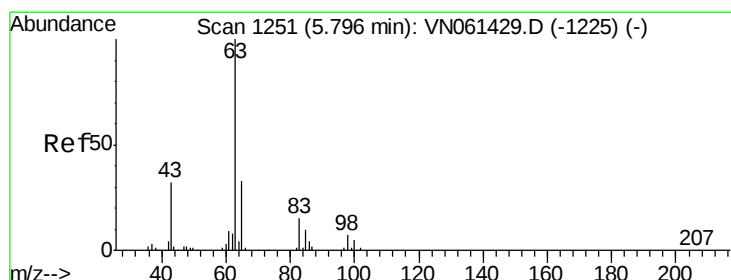
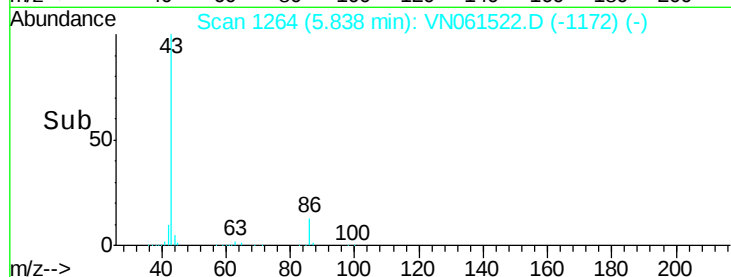
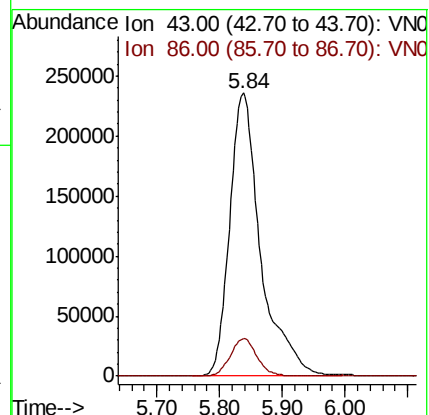
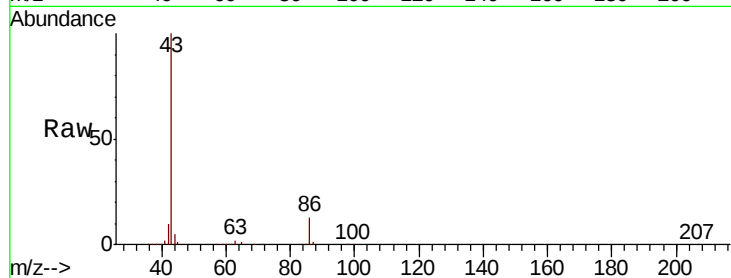
ClientSampled :

Tot Ion: 43 Resp: 809485

Ion Ratio Lower Upper

43 100

86 13.1 9.1 13.7



#24

1,1-Dichloroethane

Concen: 18.325 ug/l

RT: 5.79 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

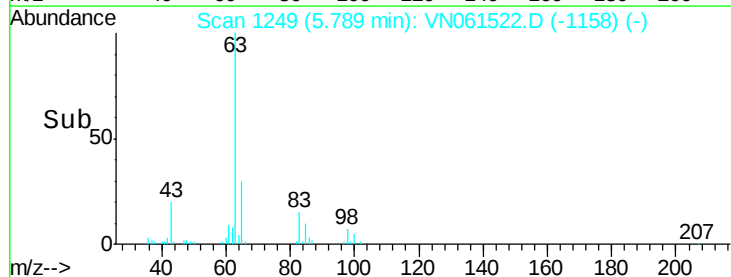
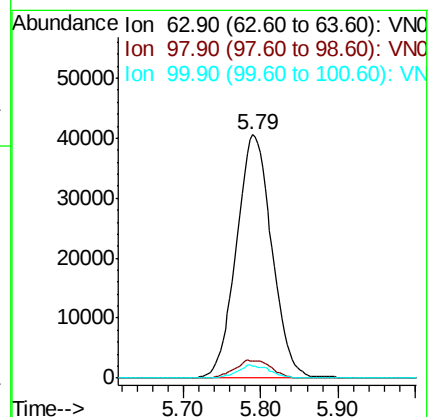
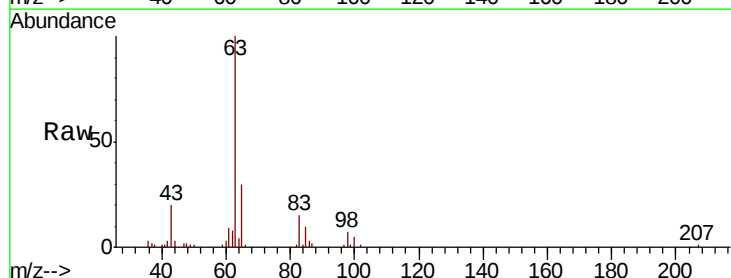
Tgt Ion: 63 Resp: 128965

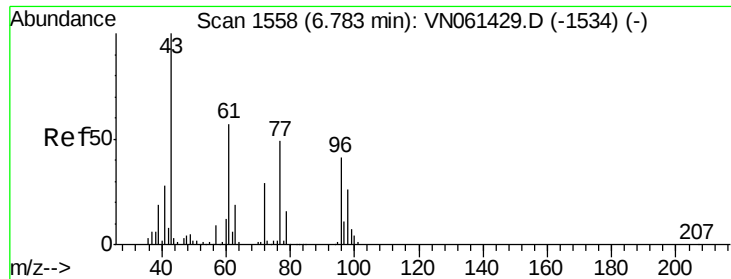
Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.5

100 5.1 2.3 6.9





#25

2-Butanone

Concen: 82.984 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

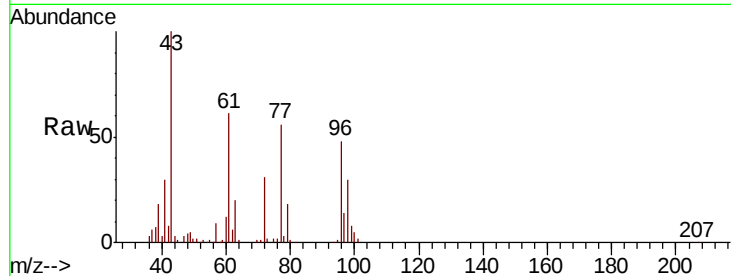
ClientSampled :

Tot Ion: 43 Resp: 181507

Ion Ratio Lower Upper

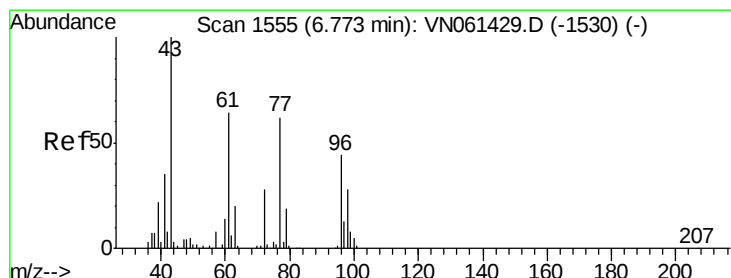
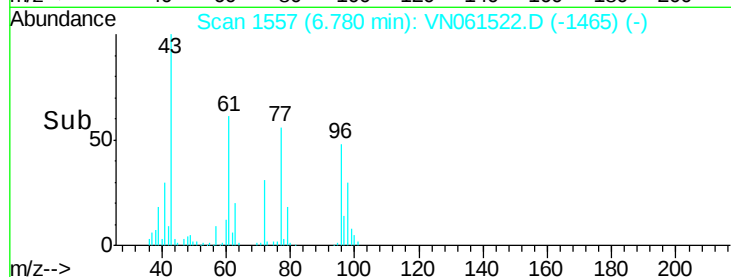
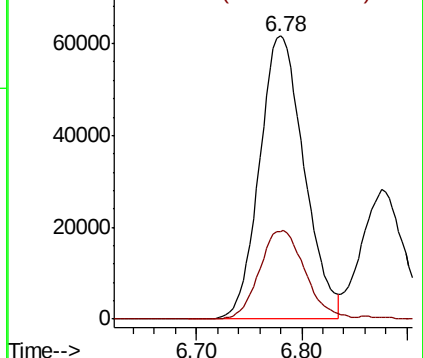
43 100

72 31.1 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 18.349 ug/l

RT: 6.77 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VN061522.D

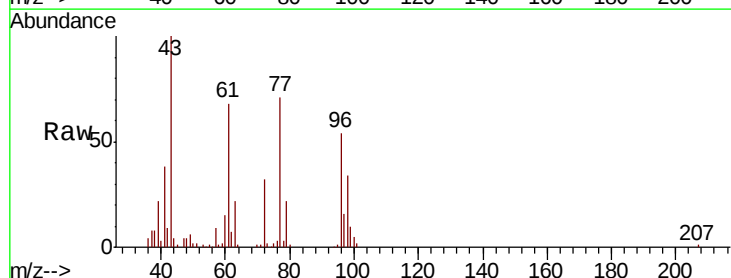
Acq: 21 May 2020 11:52

Tgt Ion: 77 Resp: 123102

Ion Ratio Lower Upper

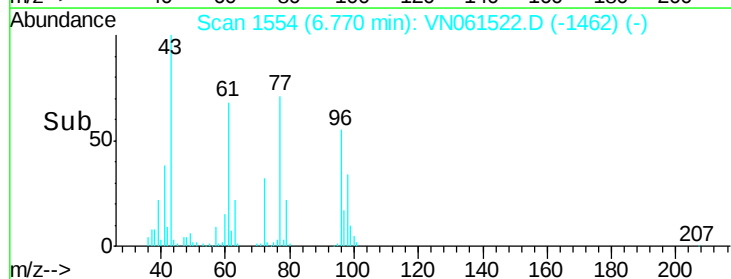
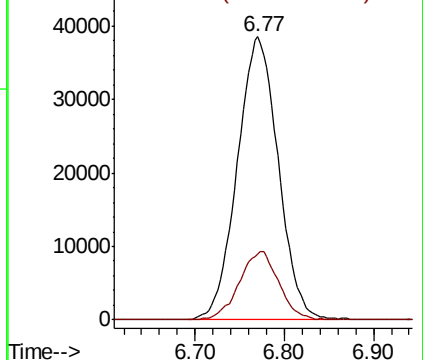
77 100

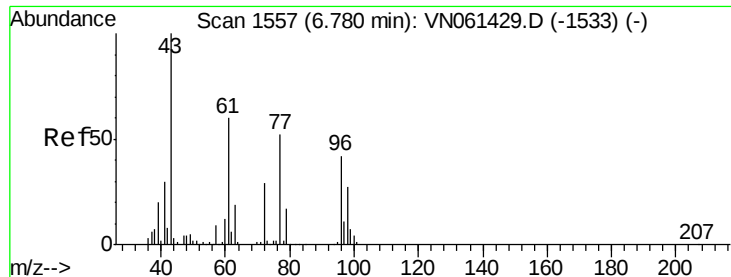
97 23.2 10.9 32.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

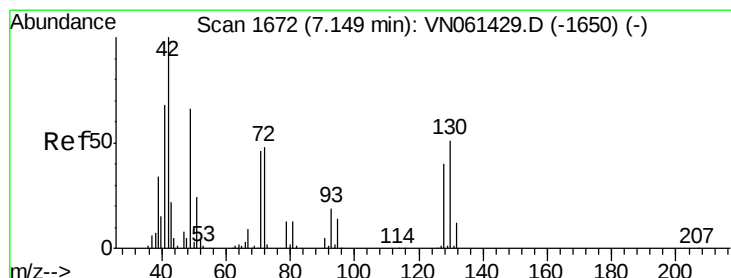
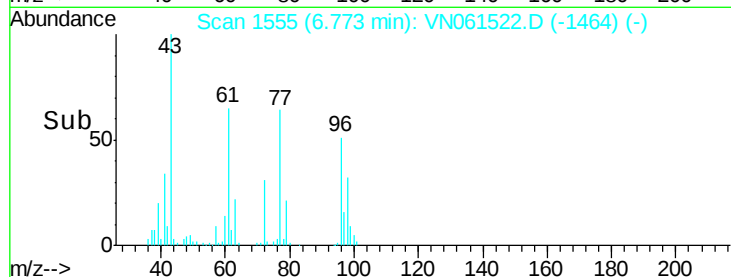
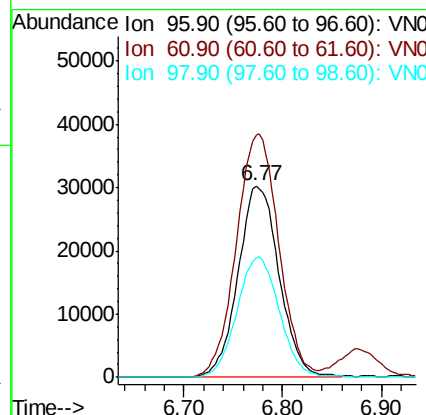
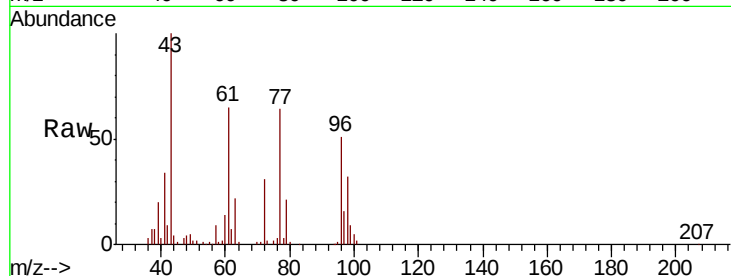




#27  
 cis-1,2-Dichloroethene  
 Concen: 19.484 ug/l  
 RT: 6.77 min Scan# 1555  
 Delta R.T. -0.01 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

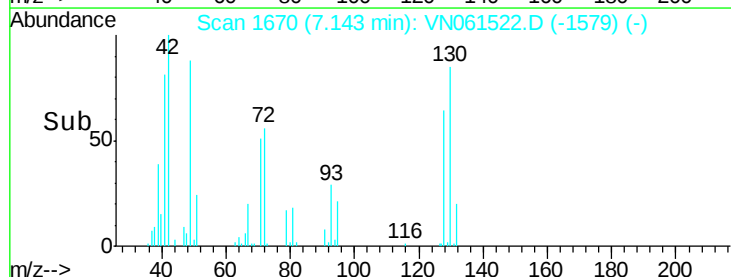
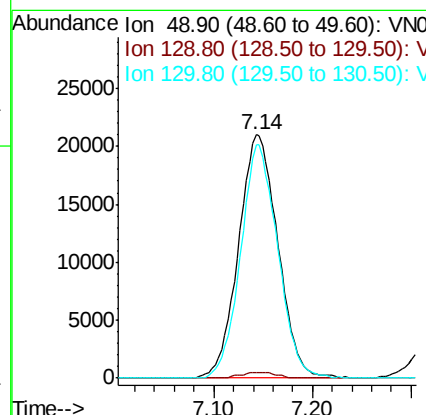
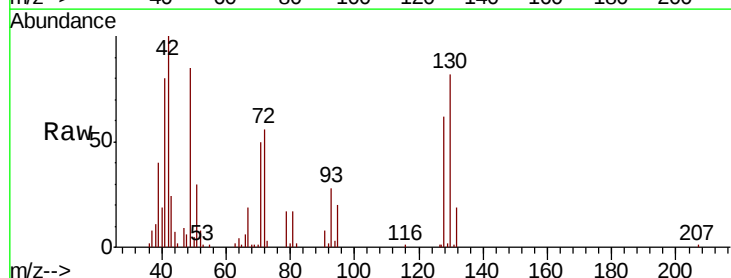
Instrument :  
 MSVOA\_N  
 ClientSampleId :

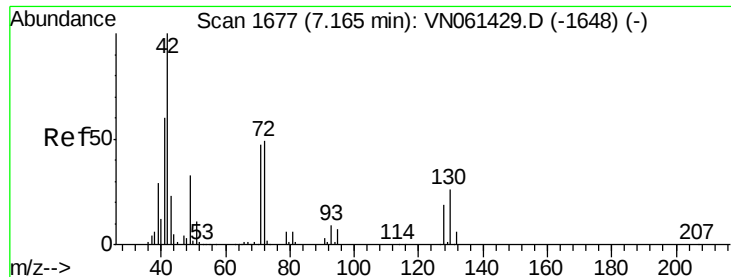
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 131.3 | 0.0   | 294.2 |
| 98      | 64.8  | 0.0   | 128.2 |



#28  
 Bromochloromethane  
 Concen: 19.397 ug/l  
 RT: 7.14 min Scan# 1670  
 Delta R.T. -0.01 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 2.0   | 0.0   | 4.6   |
| 130     | 90.6  | 62.2  | 93.2  |

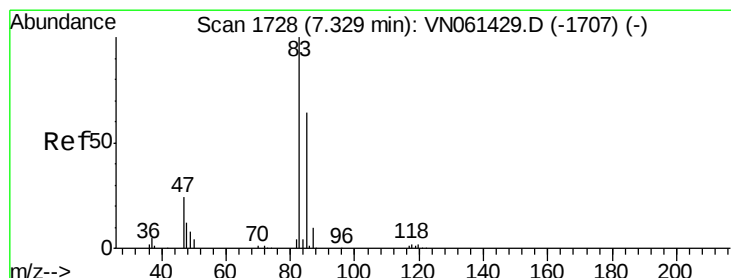
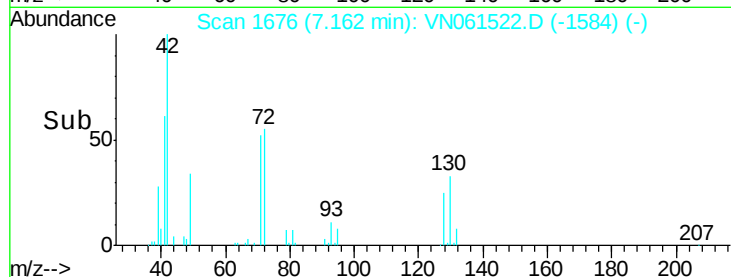
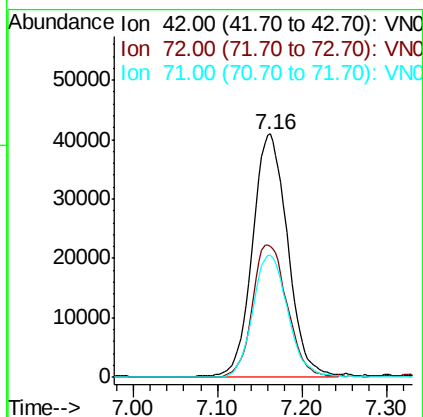
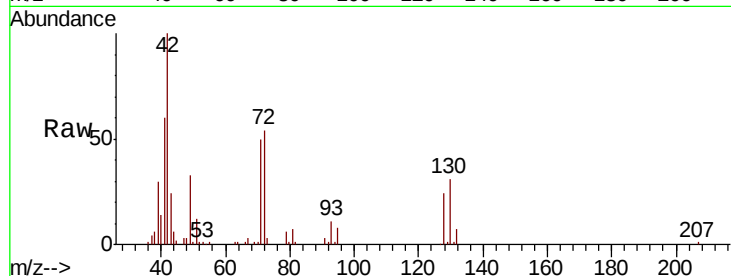




#29  
Tetrahydrofuran  
Concen: 82.176 ug/l  
RT: 7.16 min Scan# 1676  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

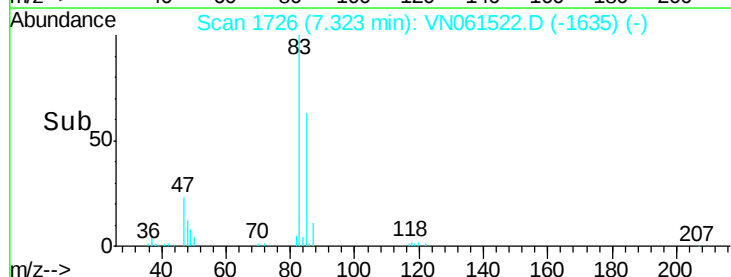
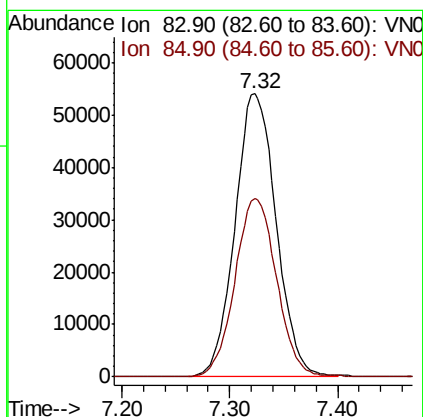
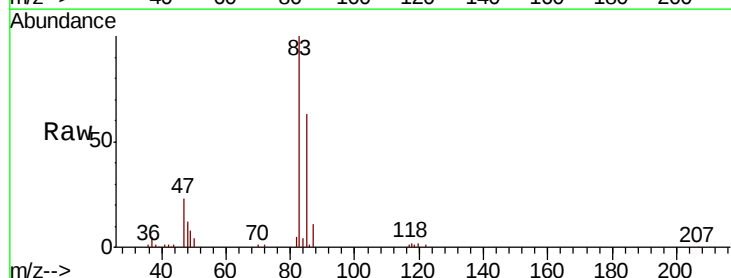
Instrument :  
MSVOA\_N  
ClientSampleId :

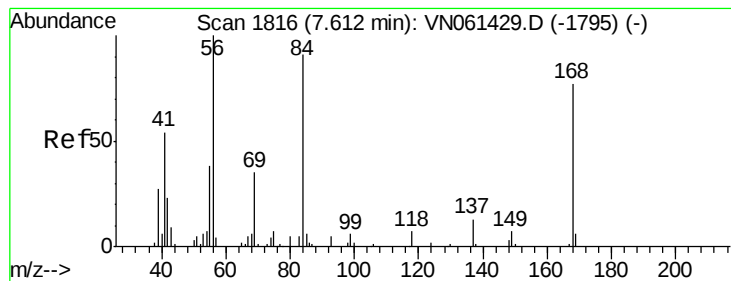
Tot Ion: 42 Resp: 119036  
Ion Ratio Lower Upper  
42 100  
72 53.9 39.0 58.6  
71 49.6 36.9 55.3



#30  
Chloroform  
Concen: 19.541 ug/l  
RT: 7.32 min Scan# 1726  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 83 Resp: 143638  
Ion Ratio Lower Upper  
83 100  
85 63.1 51.0 76.4





#31

Cyclohexane

Concen: 16.623 ug/l

RT: 7.61 min Scan# 1815

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampled :

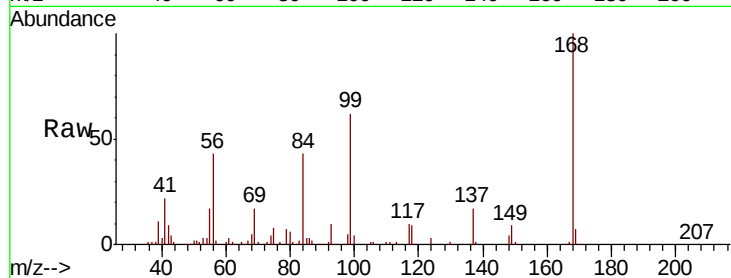
Tot Ion: 56 Resp: 115282

Ion Ratio Lower Upper

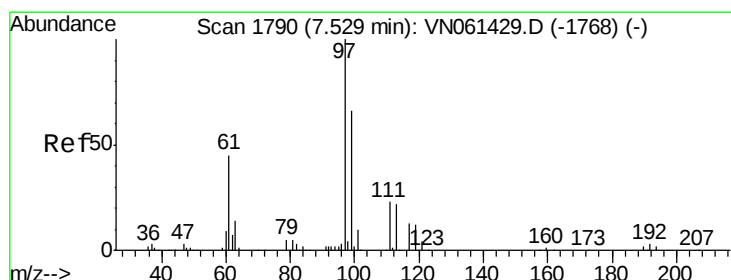
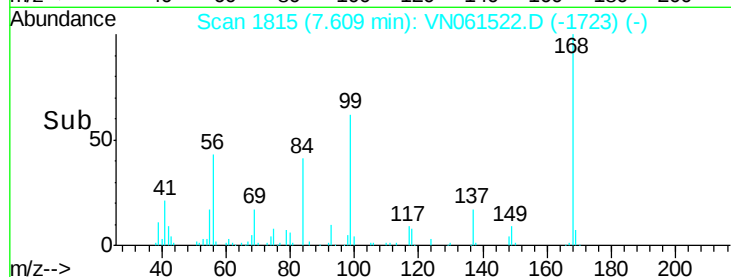
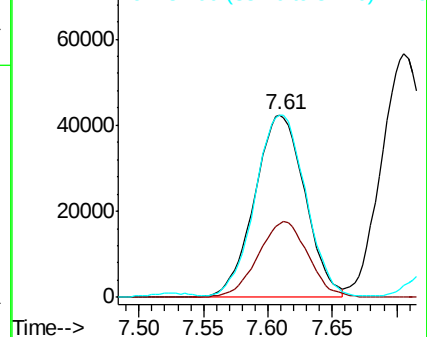
56 100

69 39.9 27.8 41.6

84 98.1 72.7 109.1



Abundance Ion 56.00 (55.70 to 56.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 19.438 ug/l

RT: 7.52 min Scan# 1788

Delta R.T. -0.01 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

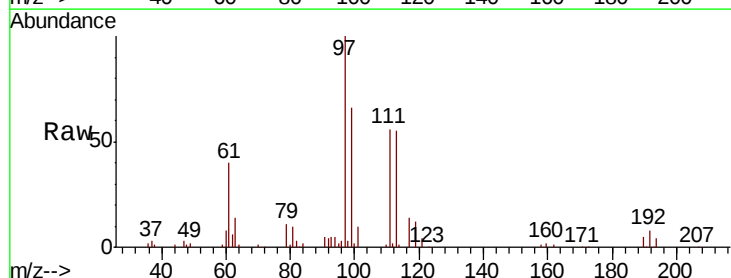
Tgt Ion: 97 Resp: 130563

Ion Ratio Lower Upper

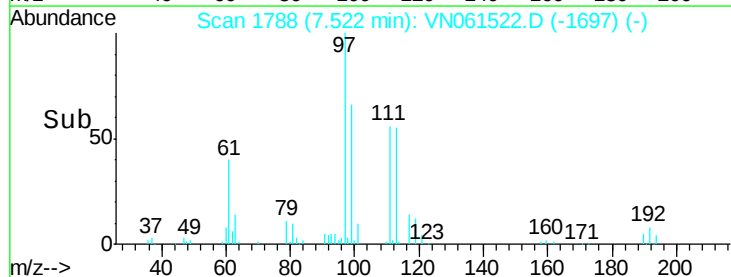
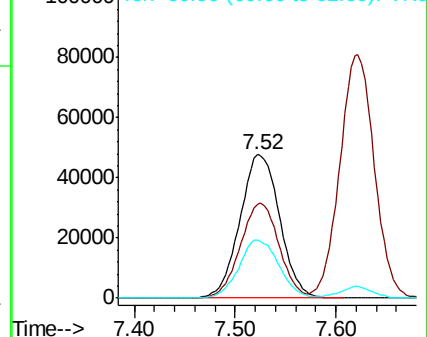
97 100

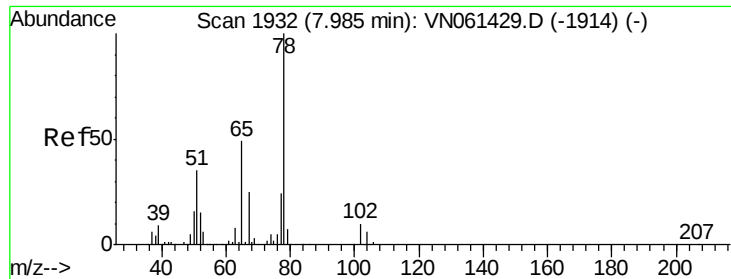
99 64.3 51.5 77.3

61 40.7 35.8 53.6



Abundance Ion 96.90 (96.60 to 97.60): VNO  
Ion 98.90 (98.60 to 99.60): VNO  
Ion 60.90 (60.60 to 61.60): VNO





#33

1,2-Dichloroethane-d4

Concen: 43.479 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

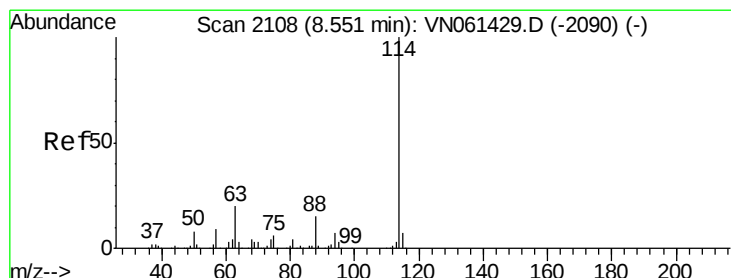
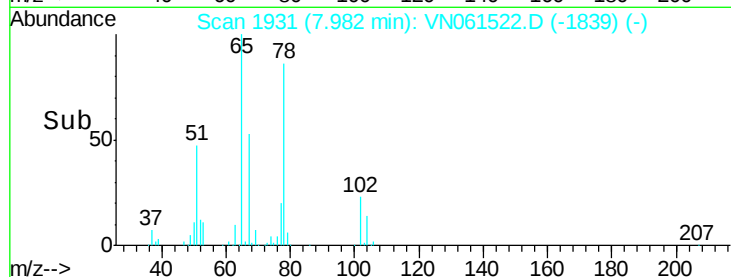
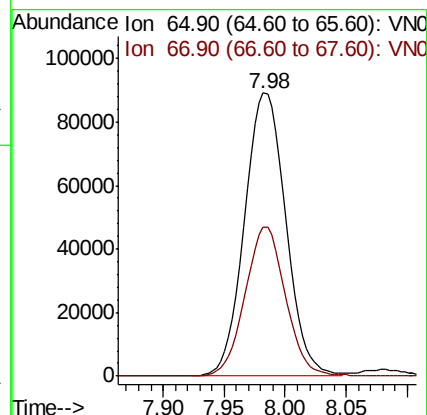
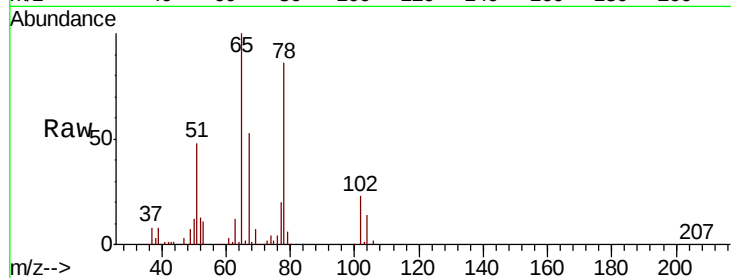
ClientSampleId :

Tot Ion: 65 Resp: 208868

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

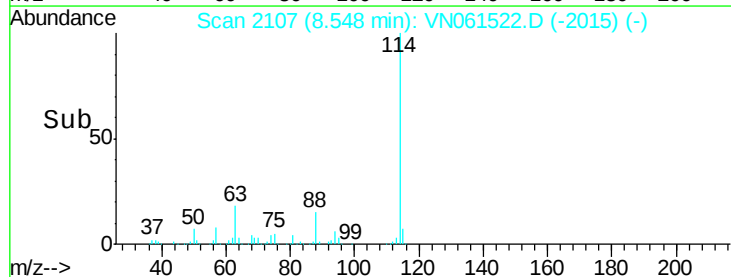
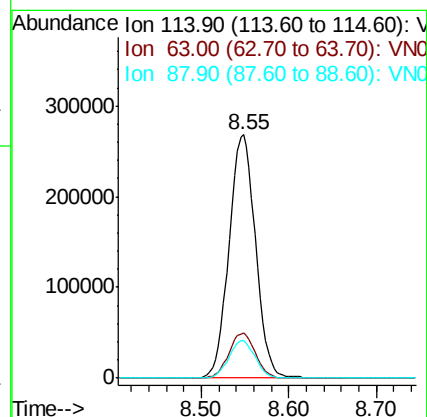
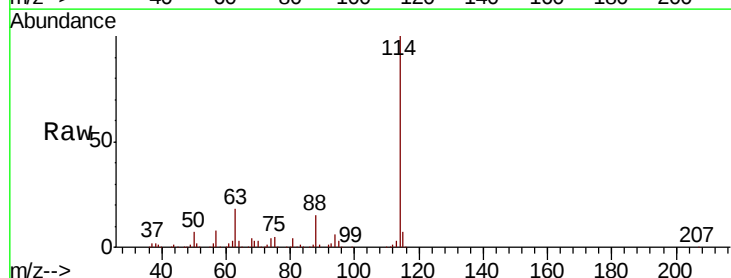
Tgt Ion: 114 Resp: 564936

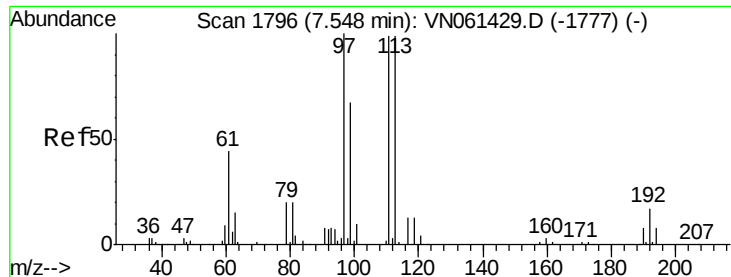
Ion Ratio Lower Upper

114 100

63 18.3 0.0 40.8

88 15.2 0.0 30.8

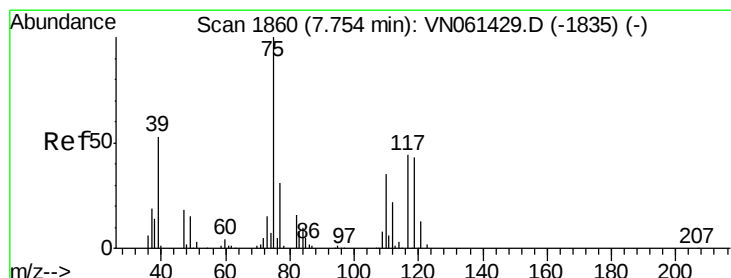
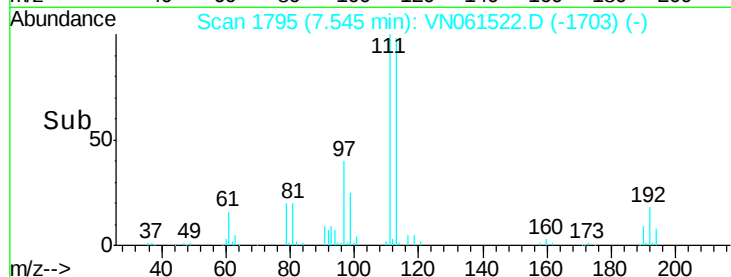
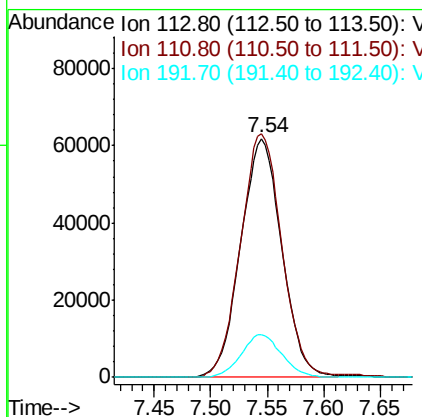
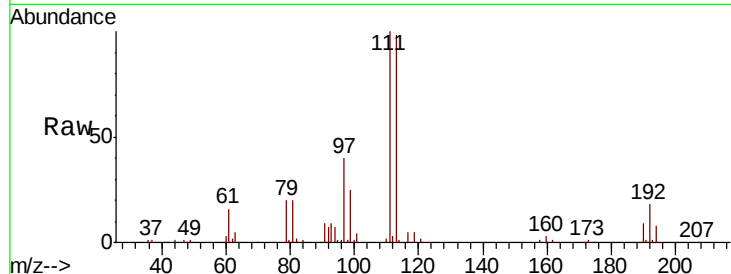




#35  
 Dibromofluoromethane  
 Concen: 52.655 ug/l  
 RT: 7.54 min Scan# 1795  
 Delta R.T. -0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

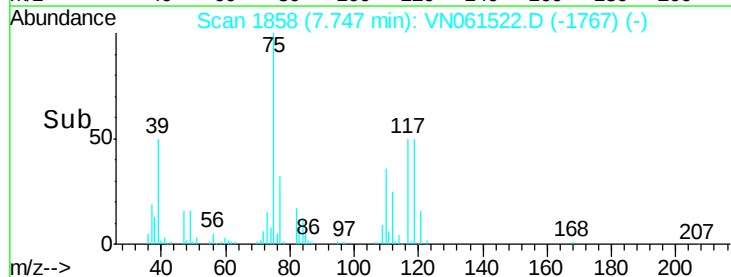
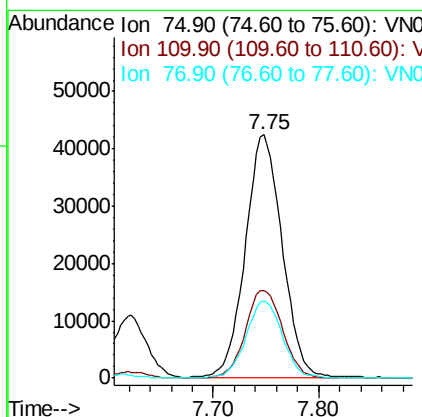
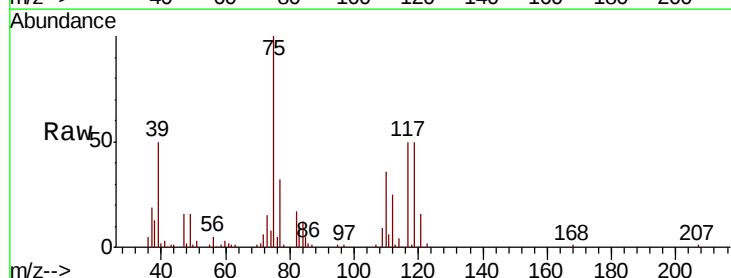
Instrument :  
 MSVOA\_N  
 ClientSampleId :

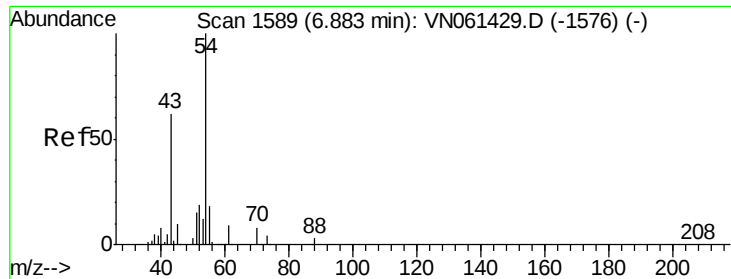
Tot Ion:113 Resp: 155834  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 80.6 121.0  
 192 17.6 13.2 19.8



#36  
 1,1-Dichloropropene  
 Concen: 19.656 ug/l  
 RT: 7.75 min Scan# 1858  
 Delta R.T. -0.01 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

Tgt Ion: 75 Resp: 103830  
 Ion Ratio Lower Upper  
 75 100  
 110 36.2 17.3 51.9  
 77 31.3 24.9 37.3

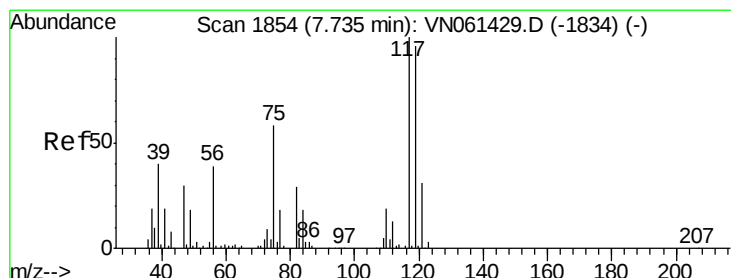
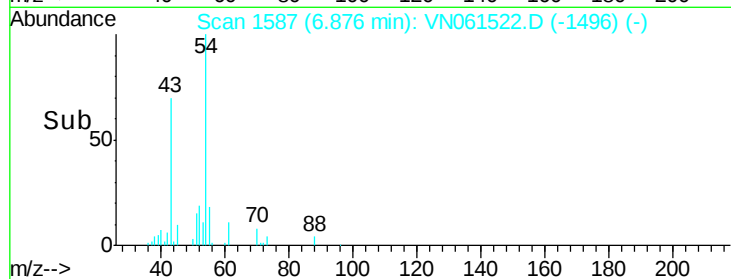
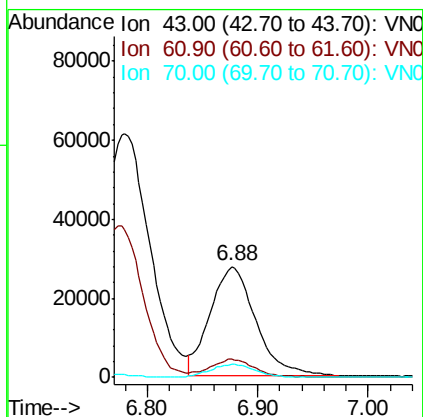
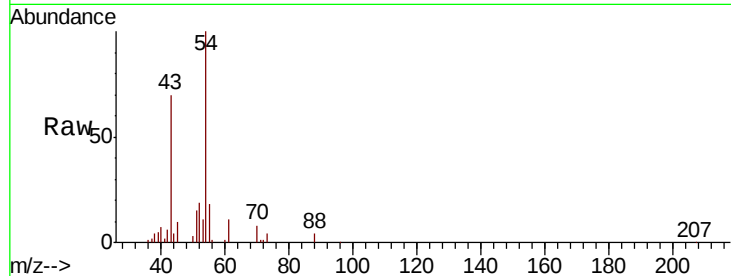




#37  
Ethyl Acetate  
Concen: 16.547 ug/l  
RT: 6.88 min Scan# 1587  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

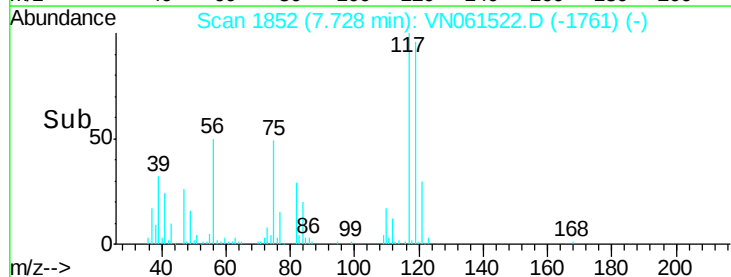
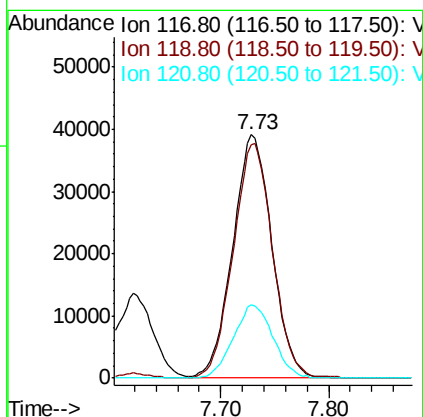
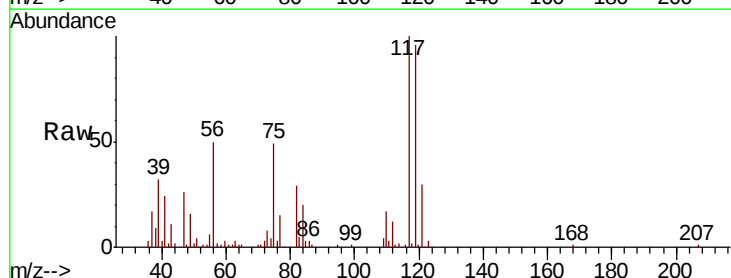
Instrument :  
MSVOA\_N  
ClientSampled :

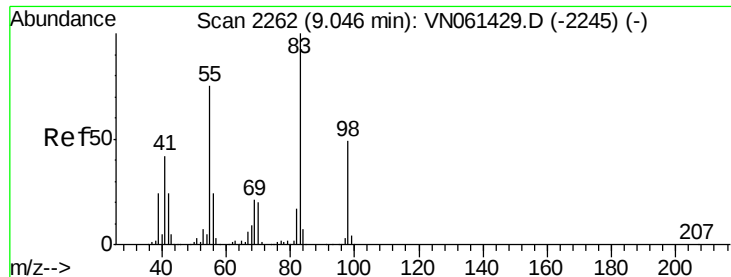
Tot Ion: 43 Resp: 79269  
Ion Ratio Lower Upper  
43 100  
61 14.9 11.7 17.5  
70 11.7 9.2 13.8



#38  
Carbon Tetrachloride  
Concen: 20.340 ug/l  
RT: 7.73 min Scan# 1852  
Delta R.T. -0.01 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 117 Resp: 98935  
Ion Ratio Lower Upper  
117 100  
119 96.1 77.0 115.6  
121 30.2 24.7 37.1

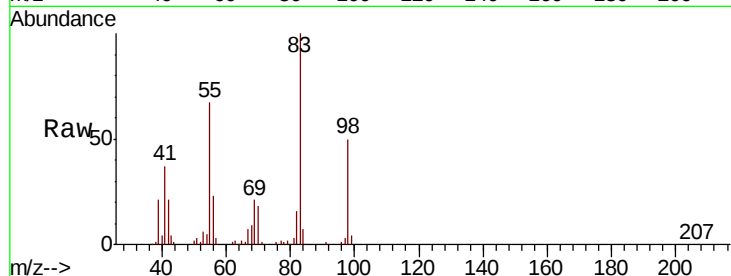




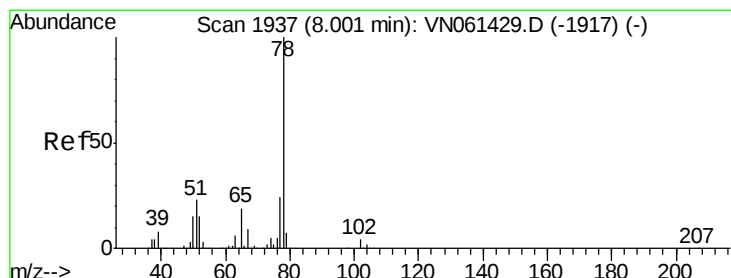
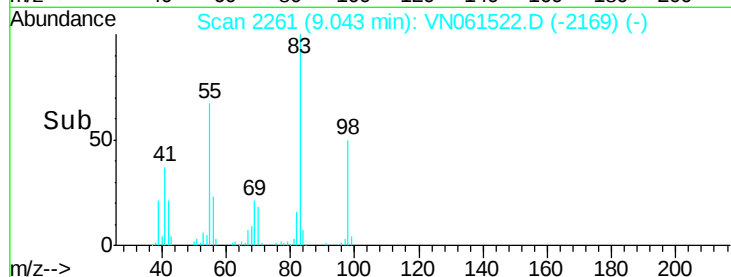
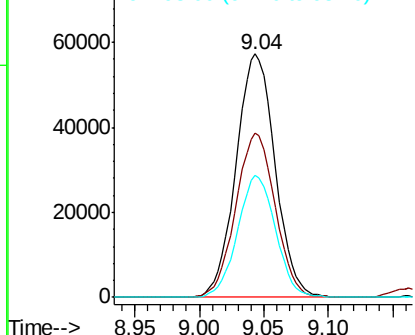
#39  
Methvlcvclohexane  
Concen: 18.692 ug/l  
RT: 9.04 min Scan# 2261  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampled :

| Tot Ion | 83    | Resp  | 120597 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 83      | 100   |       |        |
| 55      | 67.4  | 59.7  | 89.5   |
| 98      | 50.2  | 38.9  | 58.3   |

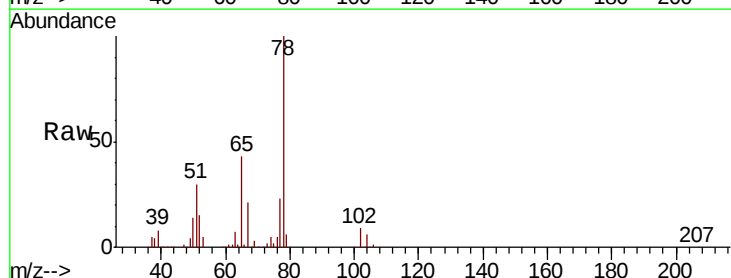


Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 55.00 (54.70 to 55.70): VN0  
Ion 98.00 (97.70 to 98.70): VN0

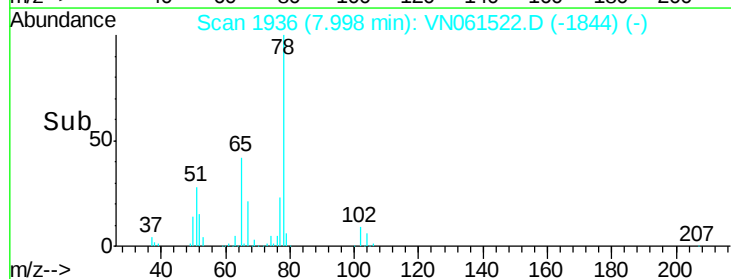
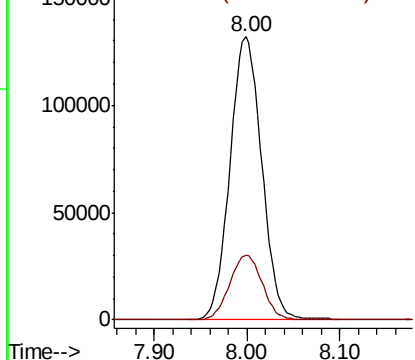


#40  
Benzene  
Concen: 19.717 ug/l  
RT: 8.00 min Scan# 1936  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

| Tgt Ion | 78    | Resp  | 313872 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 78      | 100   |       |        |
| 77      | 22.9  | 19.1  | 28.7   |



Abundance Ion 78.00 (77.70 to 78.70): VN0  
Ion 77.00 (76.70 to 77.70): VN0

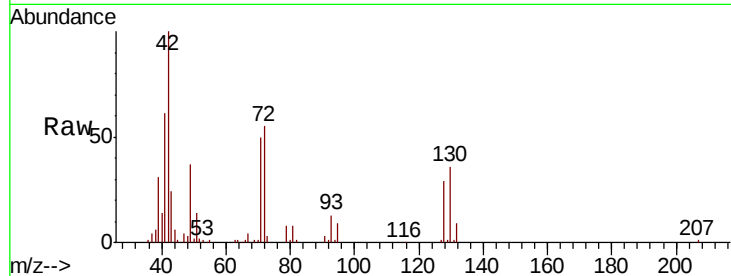




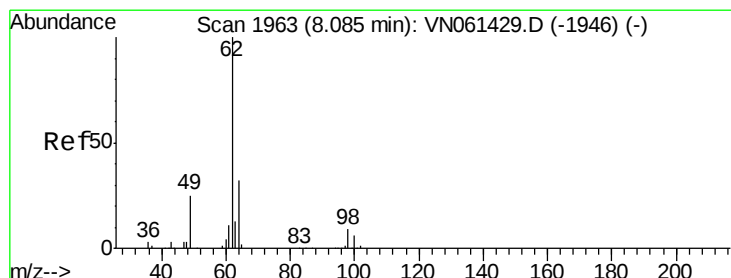
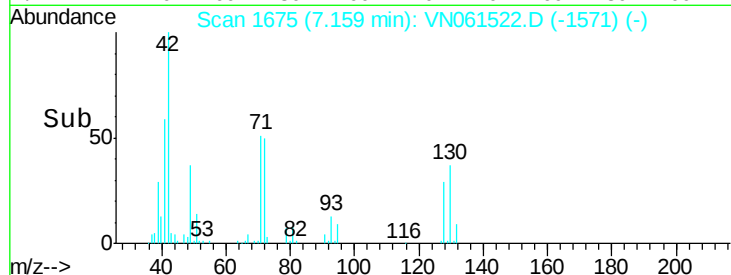
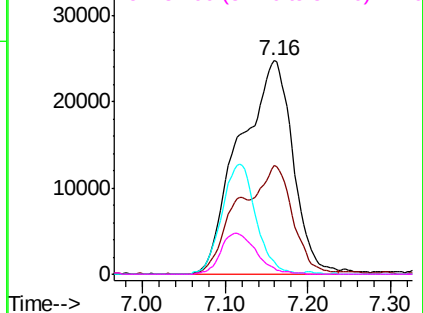
#41  
Methacrylonitrile  
Concen: 54.694 ug/l  
RT: 7.16 min Scan# 1675  
Delta R.T. 0.03 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 41 Resp: 110666  
Ion Ratio Lower Upper  
41 100  
39 0.0 48.3 72.5#  
67 0.0 74.2 111.4#  
52 0.0 30.8 46.2#

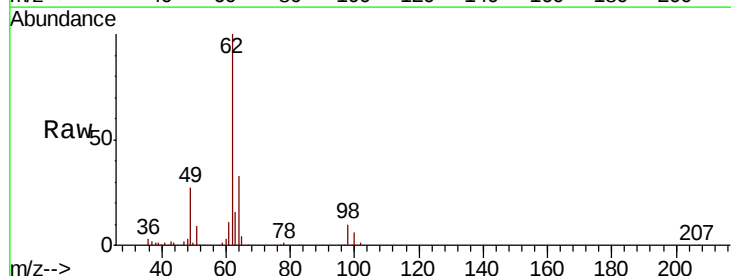


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0  
Ion 67.00 (66.70 to 67.70): VN0  
Ion 52.00 (51.70 to 52.70): VN0

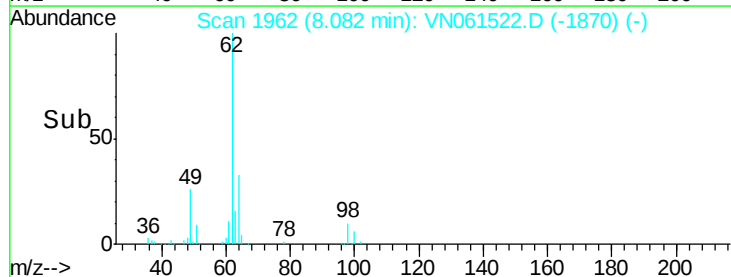
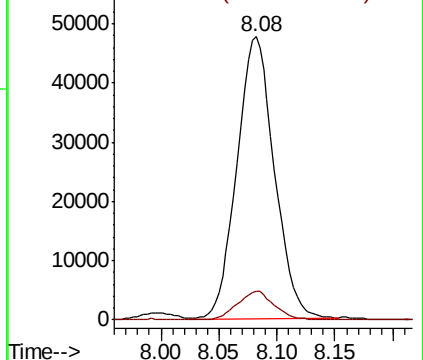


#42  
1,2-Dichloroethane  
Concen: 18.669 ug/l  
RT: 8.08 min Scan# 1962  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 62 Resp: 107075  
Ion Ratio Lower Upper  
62 100  
98 9.9 0.0 18.4



Abundance Ion 61.90 (61.60 to 62.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 16.747 ug/l

RT: 8.12 min Scan# 1974

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

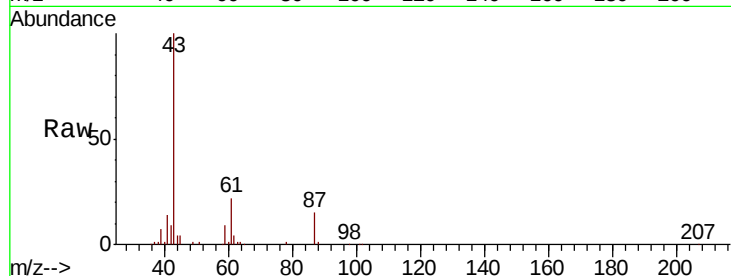
Tot Ion: 43 Resp: 139923

Ion Ratio Lower Upper

43 100

61 30.0 23.0 34.4

87 15.4 11.6 17.4

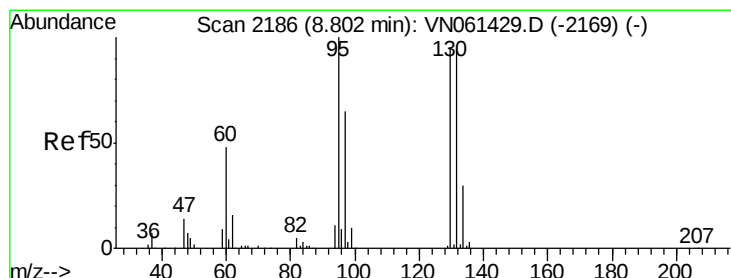
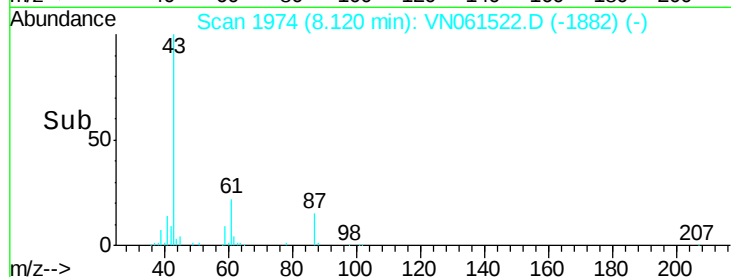


Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-1956) (-)

Ion 61.00 (60.70 to 61.70): VN061429.D (-1956) (-)

Ion 87.00 (86.70 to 87.70): VN061429.D (-1956) (-)

Time-->



#44

Trichloroethene

Concen: 21.930 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN061522.D

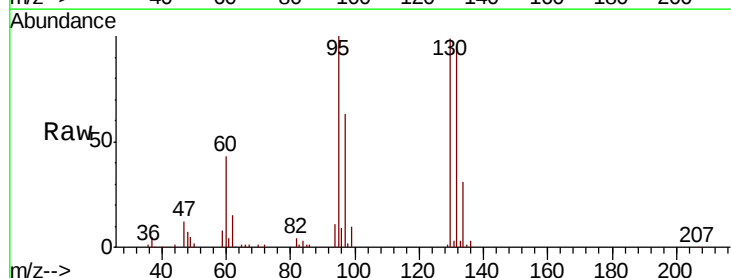
Acq: 21 May 2020 11:52

Tgt Ion: 130 Resp: 91476

Ion Ratio Lower Upper

130 100

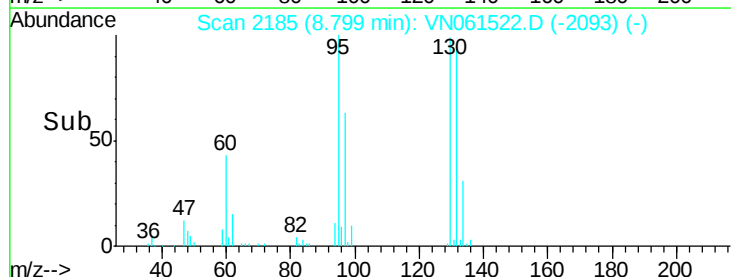
95 101.2 0.0 209.8

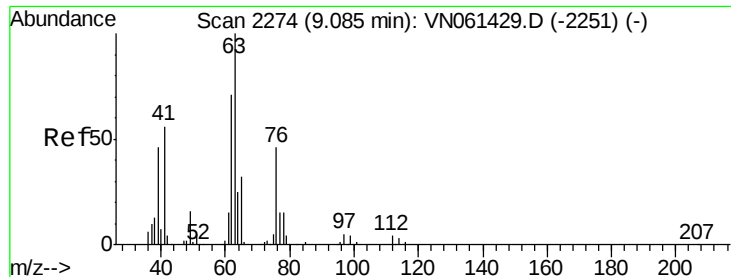


Abundance Ion 129.80 (129.50 to 130.50): VN061429.D (-2169) (-)

Ion 94.90 (94.60 to 95.60): VN061429.D (-2169) (-)

Time-->





#45

1,2-Dichloropropane

Concen: 19.003 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

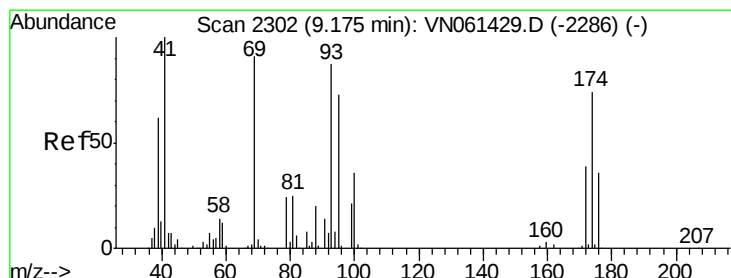
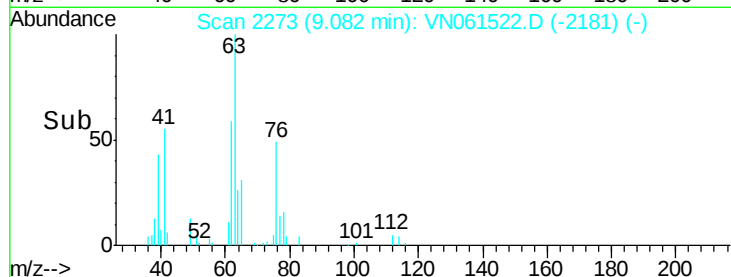
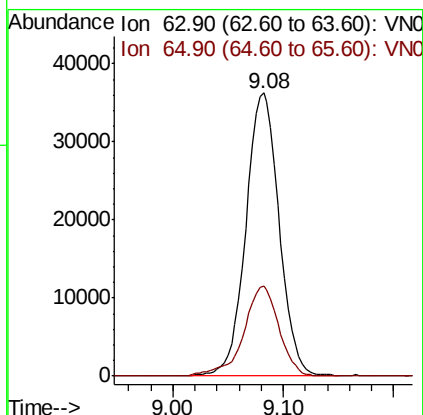
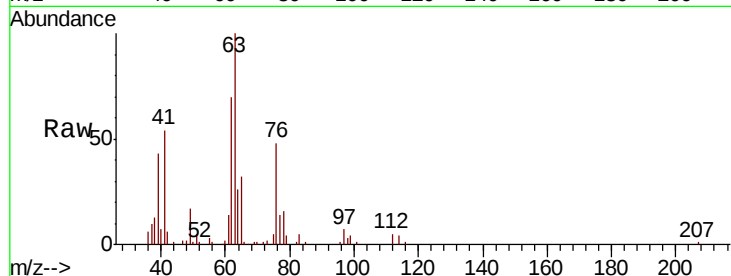
ClientSampled :

Tot Ion: 63 Resp: 75719

Ion Ratio Lower Upper

63 100

65 31.9 25.2 37.8



#46

Dibromomethane

Concen: 19.622 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

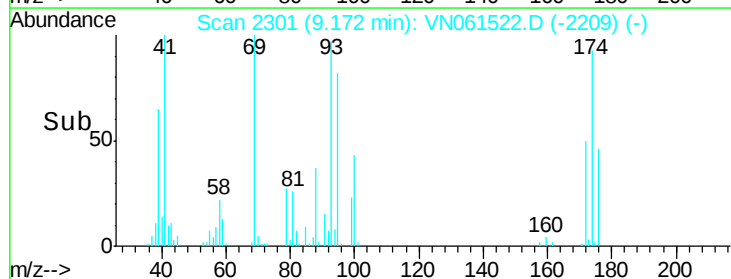
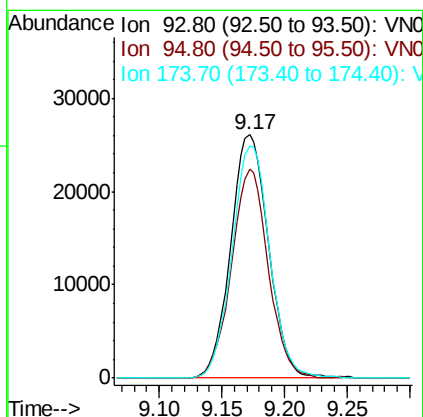
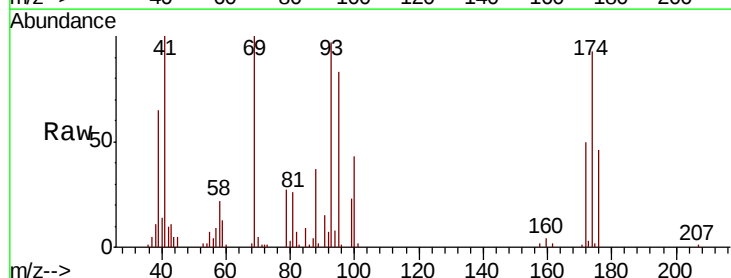
Tgt Ion: 93 Resp: 54810

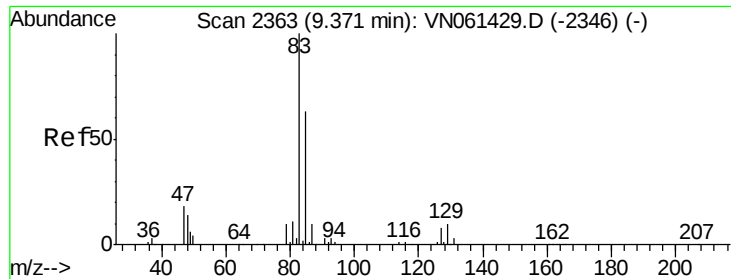
Ion Ratio Lower Upper

93 100

95 83.3 65.6 98.4

174 95.3 68.0 102.0





#47

Bromodichloromethane

Concen: 19.373 ug/l

RT: 9.37 min Scan# 2362

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

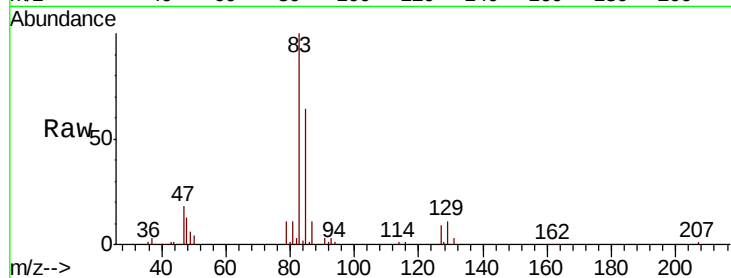
Tot Ion: 83 Resp: 114017

Ion Ratio Lower Upper

83 100

85 64.2 50.6 76.0

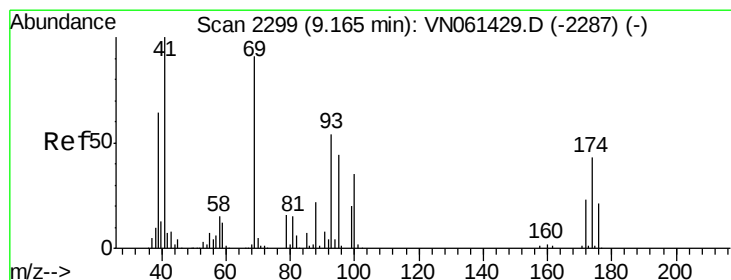
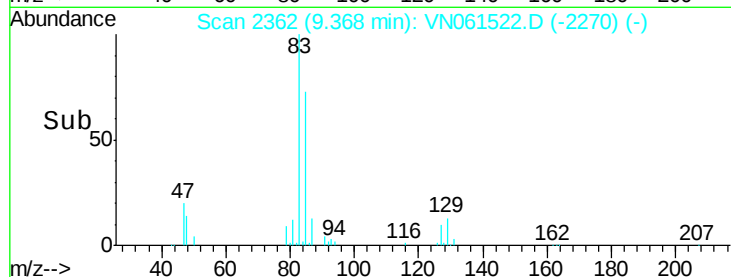
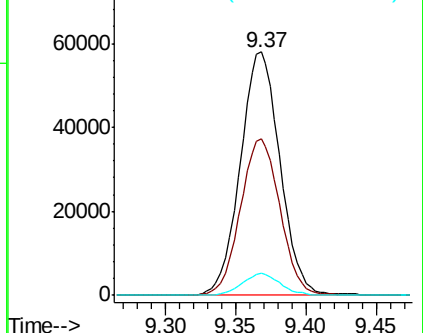
127 9.1 6.1 9.1



Abundance Ion 82.90 (82.60 to 83.60): VN061522.D (-2270) (-)

Ion 84.90 (84.60 to 85.60): VN061522.D (-2270) (-)

Ion 126.80 (126.50 to 127.50): VN061522.D (-2270) (-)



#48

Methyl methacrylate

Concen: 15.721 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

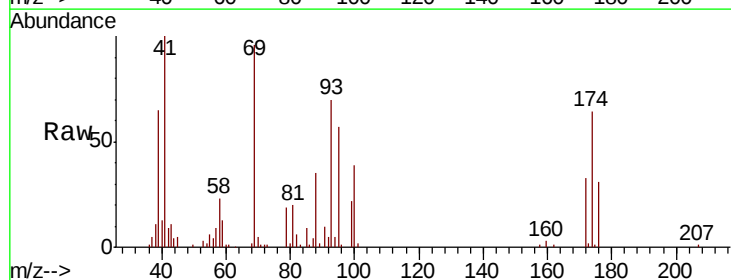
Tgt Ion: 41 Resp: 60681

Ion Ratio Lower Upper

41 100

69 103.2 75.3 112.9

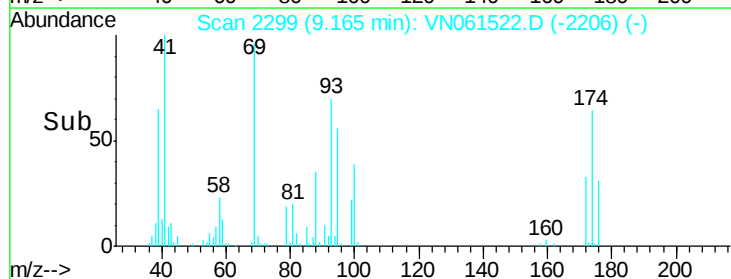
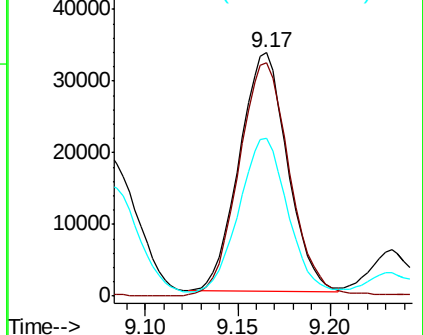
39 65.4 52.6 79.0

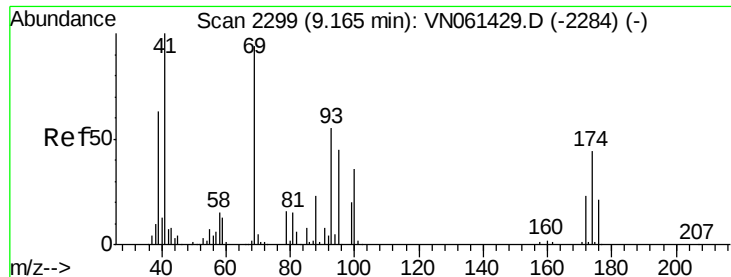


Abundance Ion 41.00 (40.70 to 41.70): VN061522.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN061522.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN061522.D (-2206) (-)

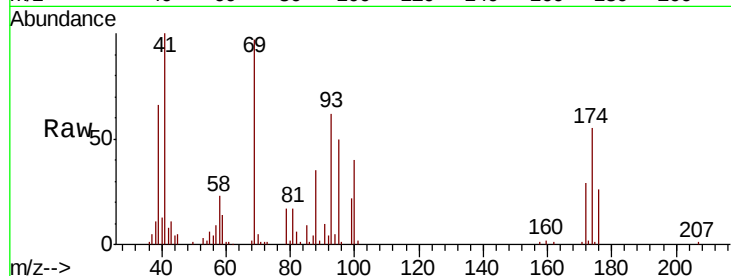




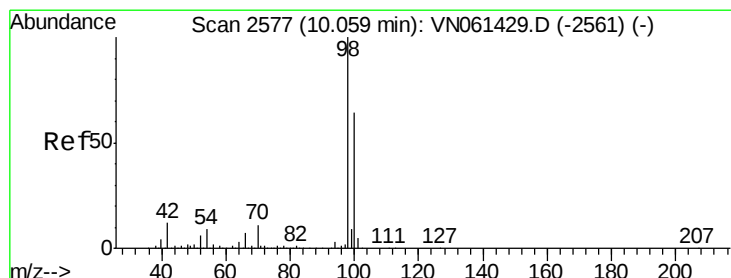
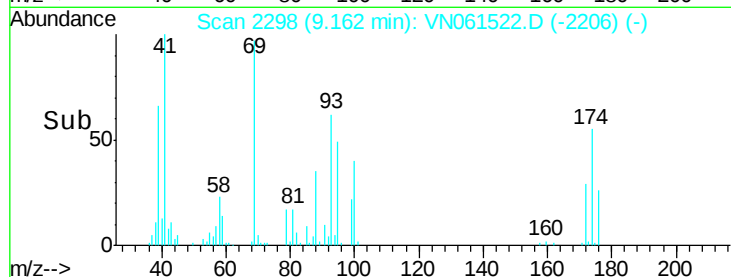
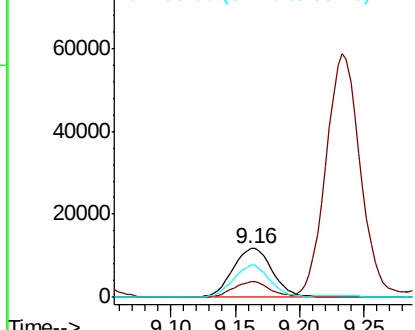
#49  
1,4-Dioxane  
Concen: 610.884 ug/l  
RT: 9.16 min Scan# 2298  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 88 Resp: 25396  
Ion Ratio Lower Upper  
88 100  
43 30.1 26.3 39.5  
58 60.3 54.1 81.1

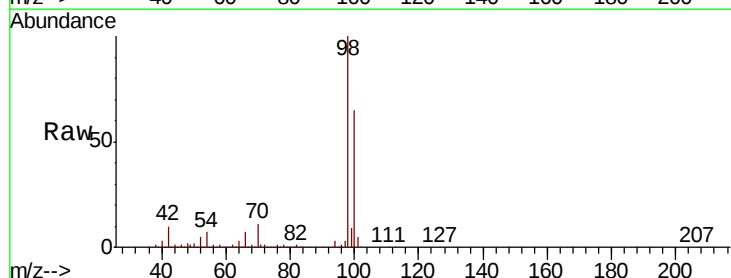


Abundance Ion 88.00 (87.70 to 88.70): VN0  
Ion 43.00 (42.70 to 43.70): VN0  
Ion 58.00 (57.70 to 58.70): VN0

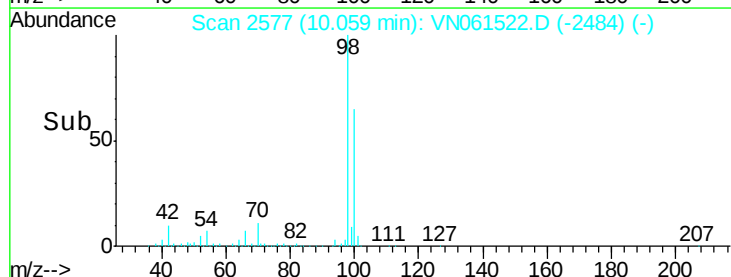
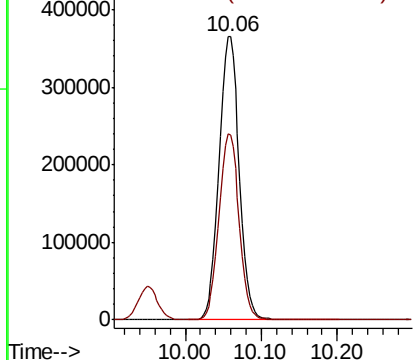


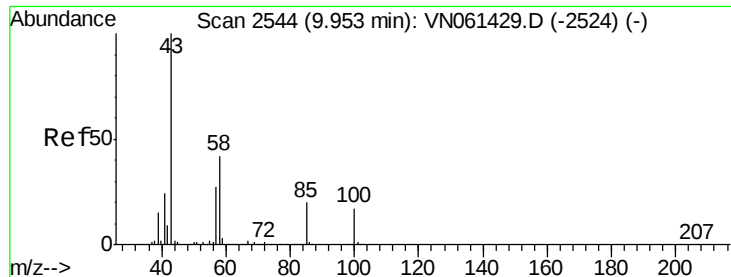
#50  
Toluene-d8  
Concen: 48.893 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 98 Resp: 671151  
Ion Ratio Lower Upper  
98 100  
100 65.5 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 87.448 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

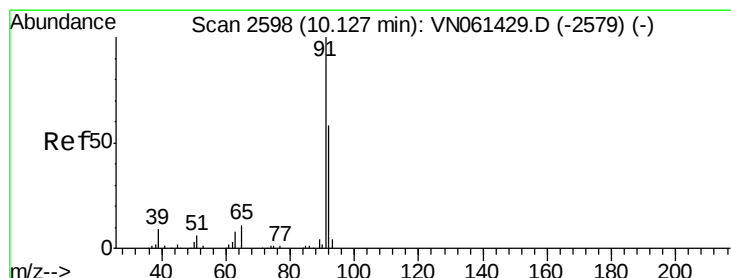
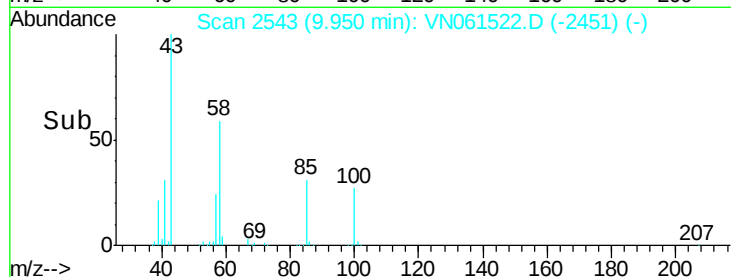
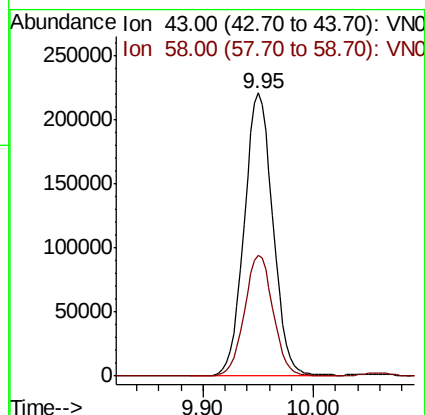
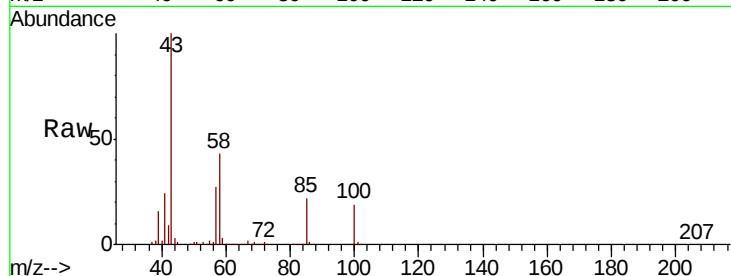
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 43 Resp: 398028

Ion Ratio Lower Upper

43 100

58 42.7 33.4 50.2



#52

Toluene

Concen: 20.439 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN061522.D

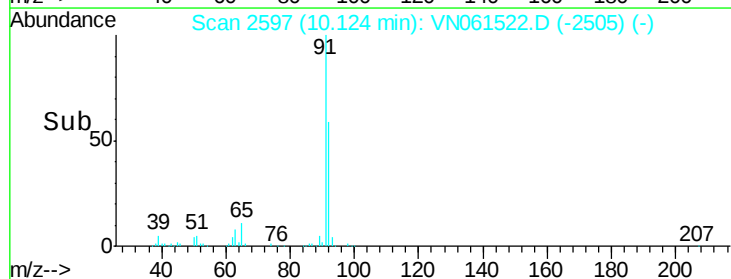
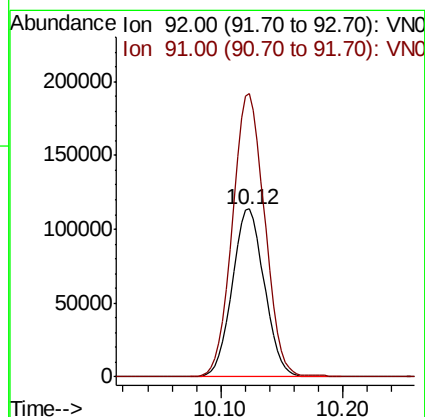
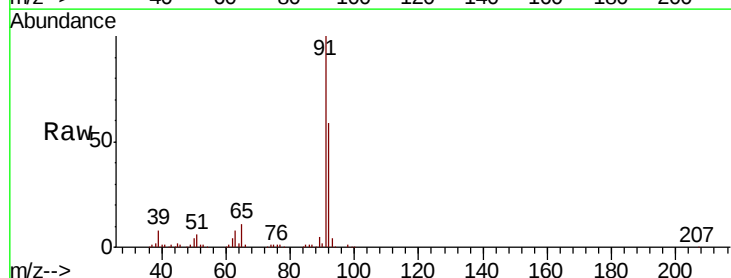
Acq: 21 May 2020 11:52

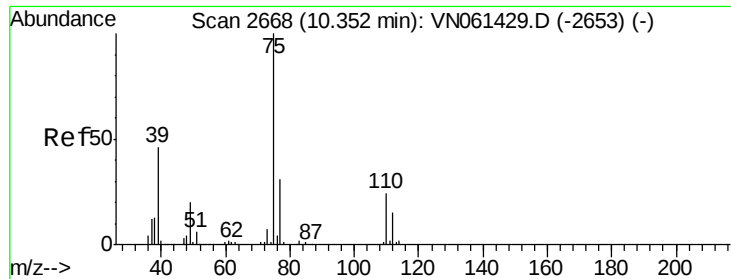
Tgt Ion: 92 Resp: 208888

Ion Ratio Lower Upper

92 100

91 169.1 138.0 207.0





#53

t-1,3-Dichloropropene

Concen: 18.703 ug/l

RT: 10.35 min Scan# 2668

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

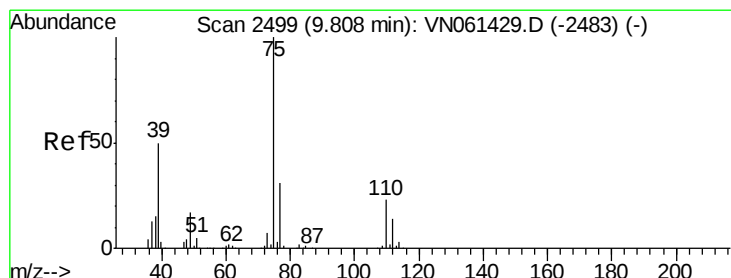
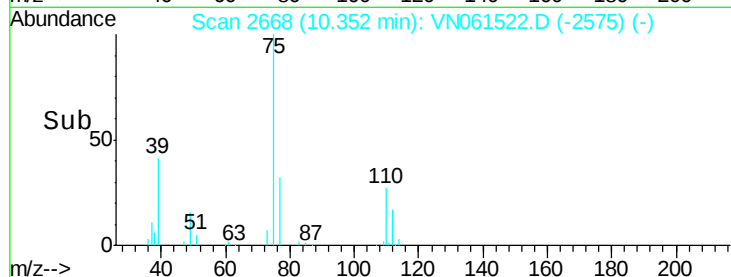
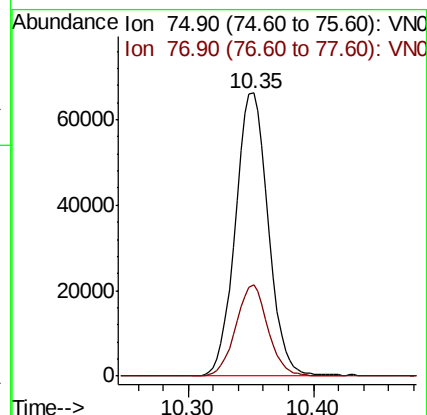
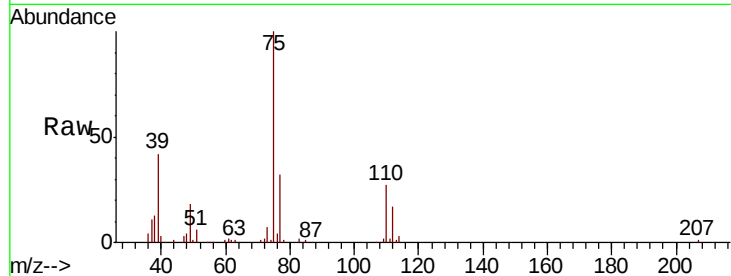
ClientSampleId :

Tot Ion: 75 Resp: 120644

Ion Ratio Lower Upper

75 100

77 32.2 24.8 37.2



#54

cis-1,3-Dichloropropene

Concen: 19.048 ug/l

RT: 9.81 min Scan# 2498

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

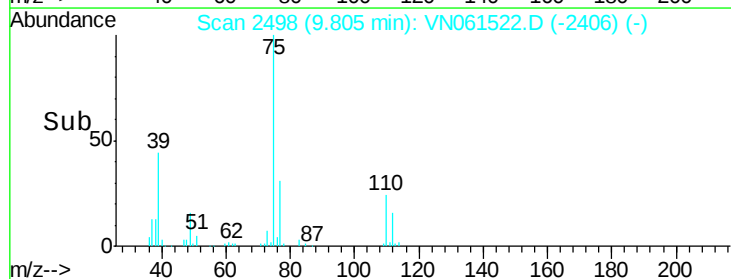
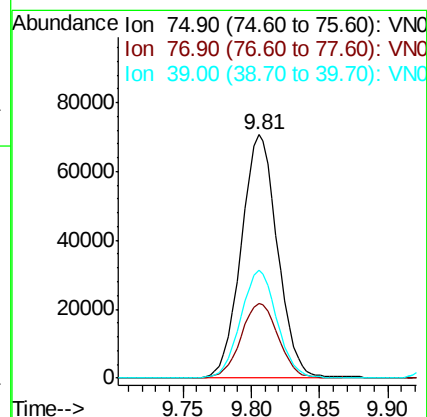
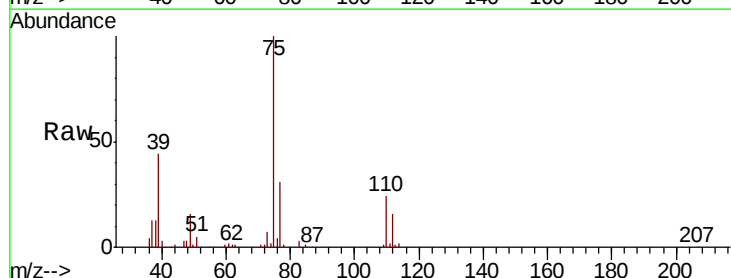
Tgt Ion: 75 Resp: 130613

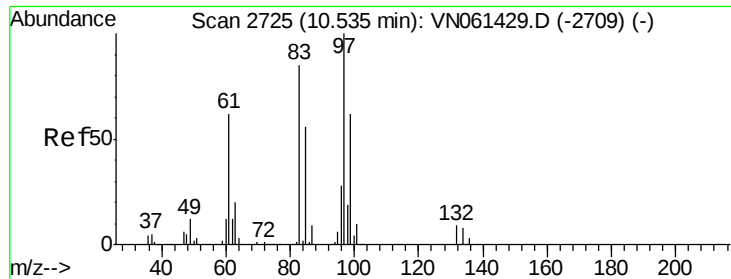
Ion Ratio Lower Upper

75 100

77 30.7 24.8 37.2

39 44.3 39.8 59.6

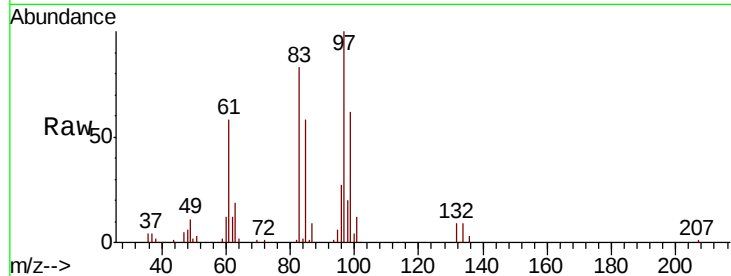




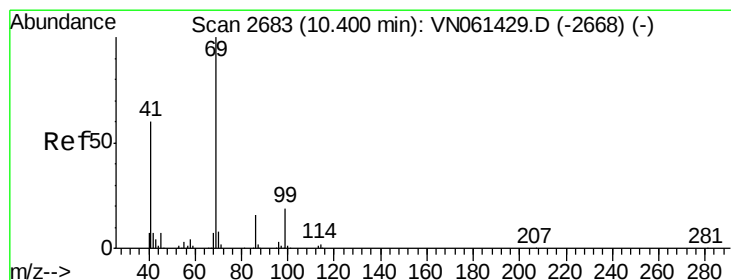
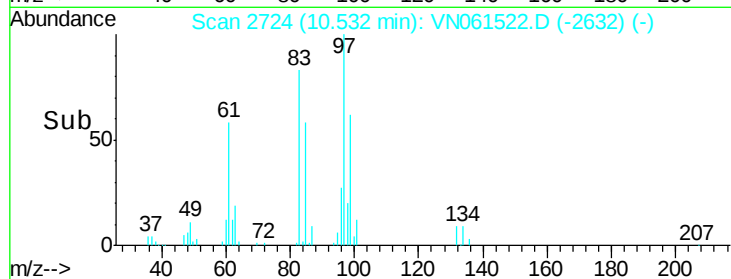
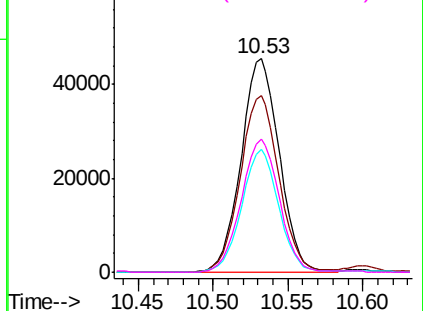
#55  
 1,1,2-Trichloroethane  
 Concen: 20.947 ug/l  
 RT: 10.53 min Scan# 2724  
 Delta R.T. -0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

Instrument :  
 MSVOA\_N  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 80937 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 82.6  | 68.2  | 102.4 |
| 85       | 57.5  | 44.6  | 67.0  |
| 99       | 62.5  | 49.5  | 74.3  |

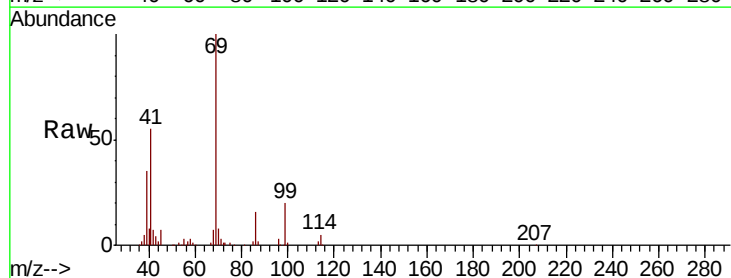


Abundance Ion 96.90 (96.60 to 97.60): VNO  
 Ion 82.90 (82.60 to 83.60): VNO  
 Ion 84.90 (84.60 to 85.60): VNO  
 Ion 98.90 (98.60 to 99.60): VNO

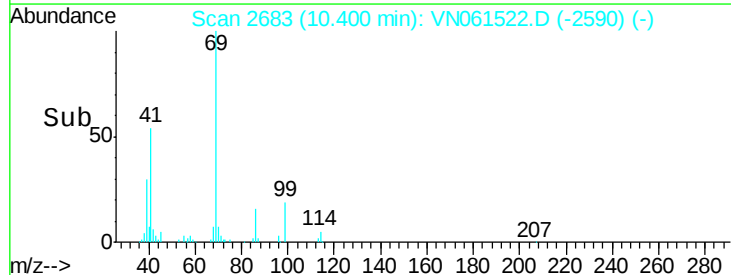
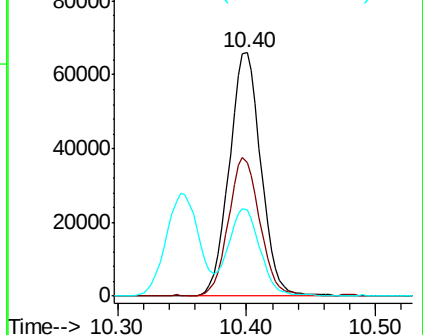


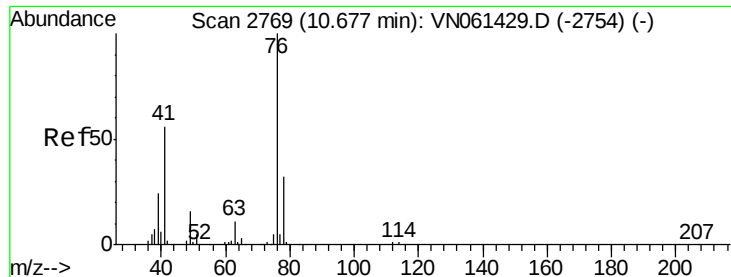
#56  
 Ethyl methacrylate  
 Concen: 18.655 ug/l  
 RT: 10.40 min Scan# 2683  
 Delta R.T. 0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 112692 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 55.6  | 48.3  | 72.5   |
| 39       | 35.7  | 30.2  | 45.2   |



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

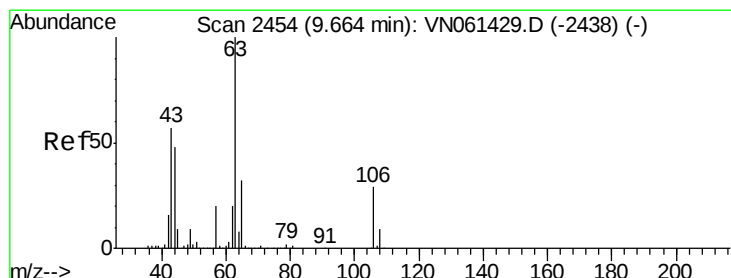
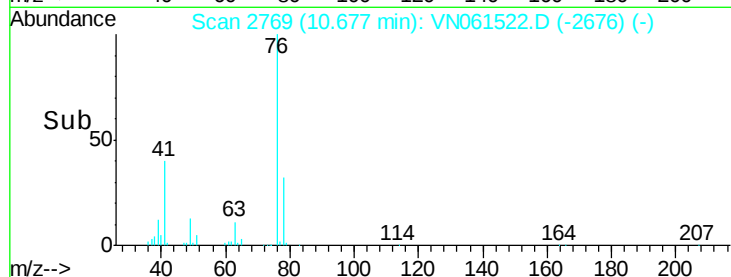
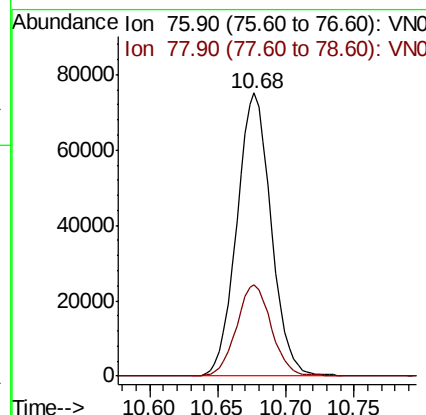
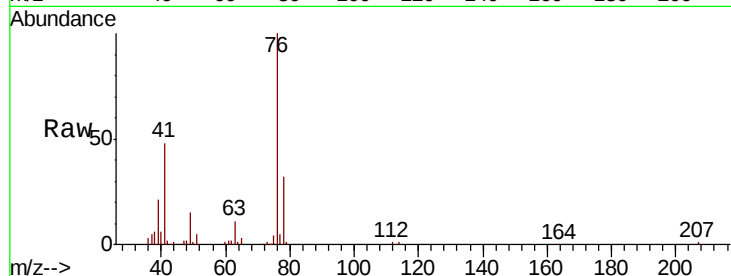




#57  
 1,3-Dichloropropane  
 Concen: 19.658 ug/l  
 RT: 10.68 min Scan# 2769  
 Delta R.T. 0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

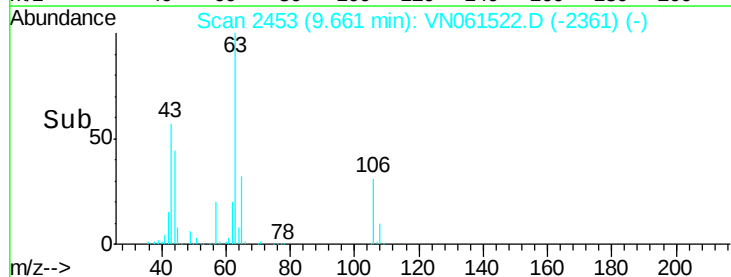
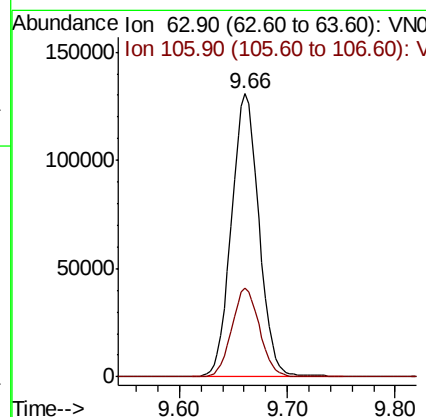
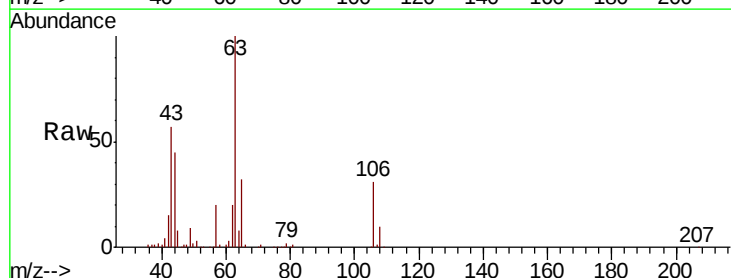
Instrument :  
 MSVOA\_N  
 ClientSampled :

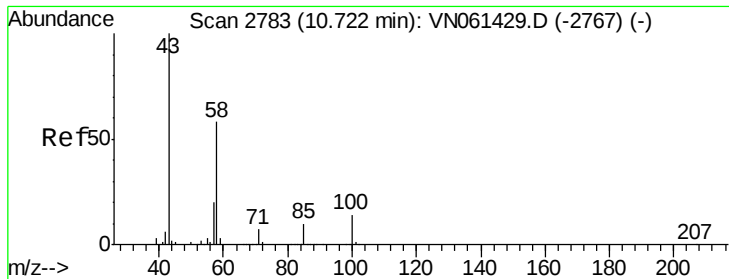
Tot Ion: 76 Resp: 131269  
 Ion Ratio Lower Upper  
 76 100  
 78 32.8 26.0 39.0



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 88.213 ug/l  
 RT: 9.66 min Scan# 2453  
 Delta R.T. -0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

Tgt Ion: 63 Resp: 233899  
 Ion Ratio Lower Upper  
 63 100  
 106 31.5 22.7 34.1

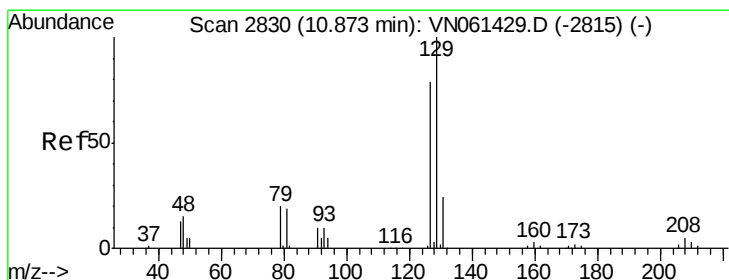
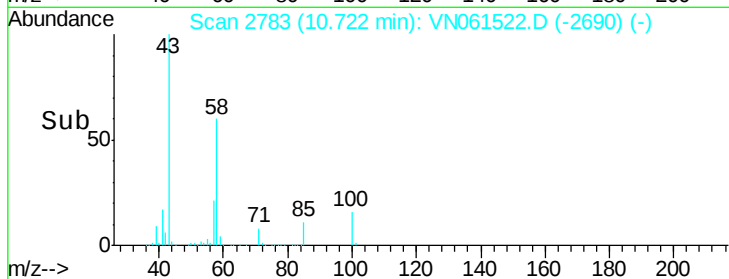
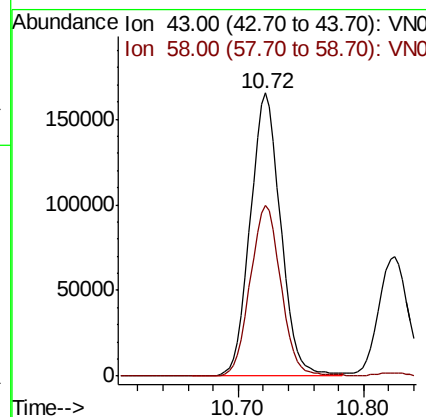
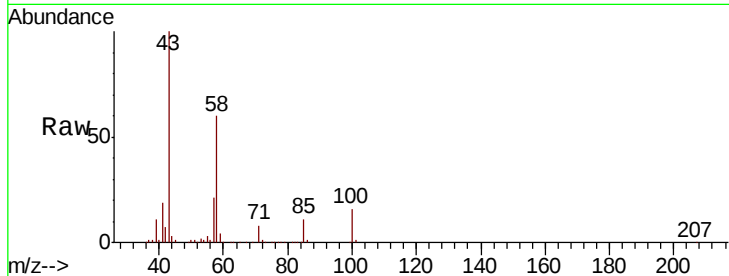




#59  
2-Hexanone  
Concen: 85.047 ug/l  
RT: 10.72 min Scan# 2783  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

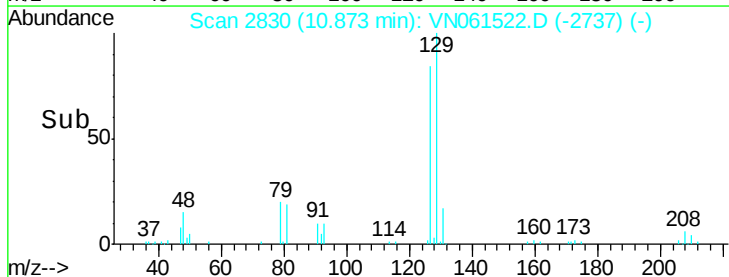
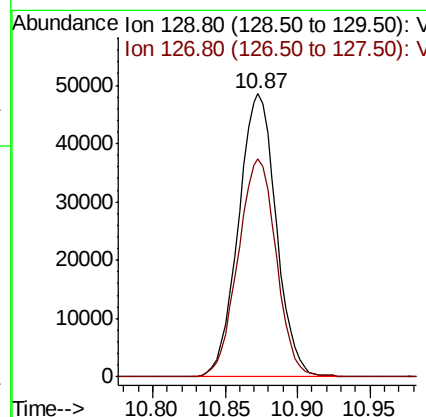
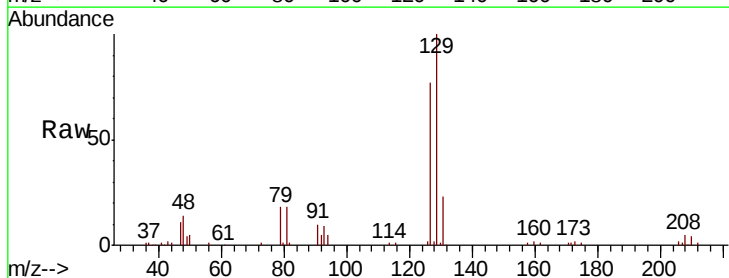
Instrument :  
MSVOA\_N  
ClientSampleId :

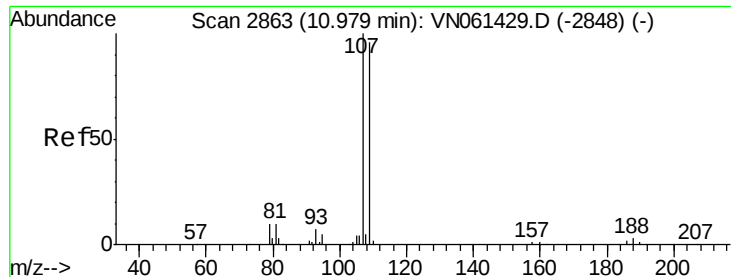
Tot Ion: 43 Resp: 280061  
Ion Ratio Lower Upper  
43 100  
58 60.9 29.2 87.6



#60  
Dibromochloromethane  
Concen: 20.608 ug/l  
RT: 10.87 min Scan# 2830  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion: 129 Resp: 88079  
Ion Ratio Lower Upper  
129 100  
127 77.6 38.8 116.3

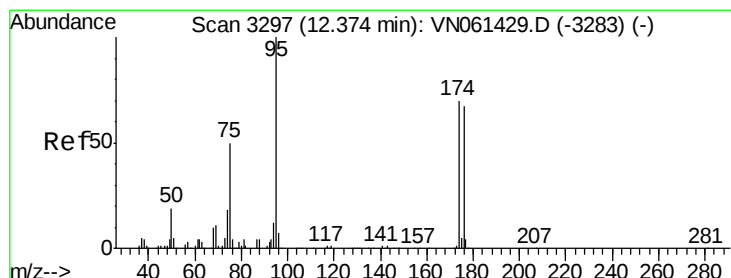
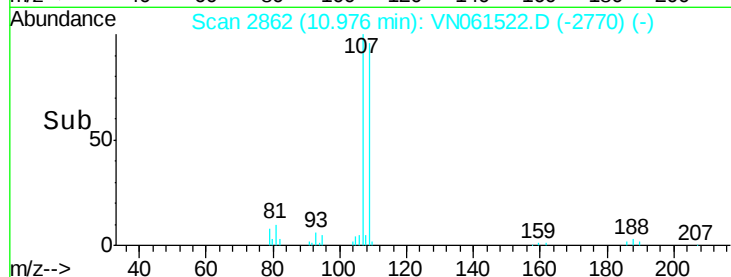
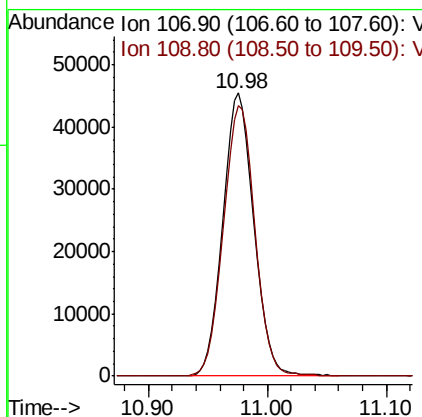
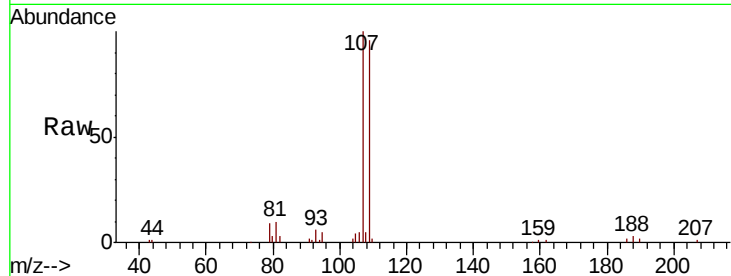




#61  
 1,2-Dibromoethane  
 Concen: 20.236 ug/l  
 RT: 10.98 min Scan# 2862  
 Delta R.T. -0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

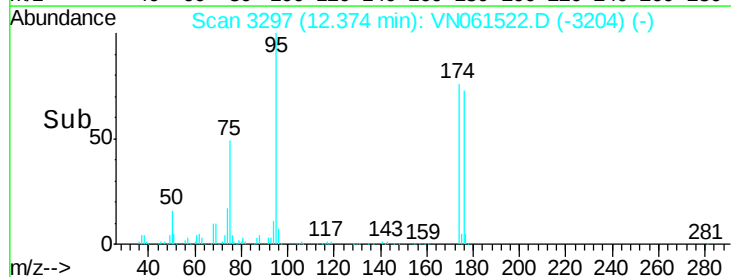
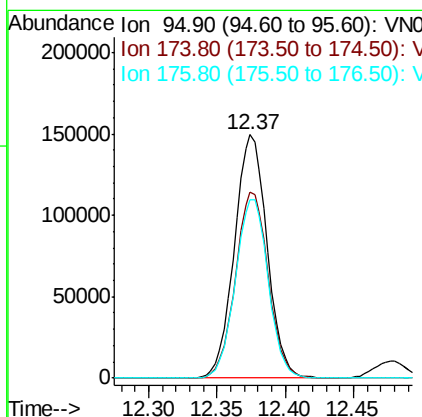
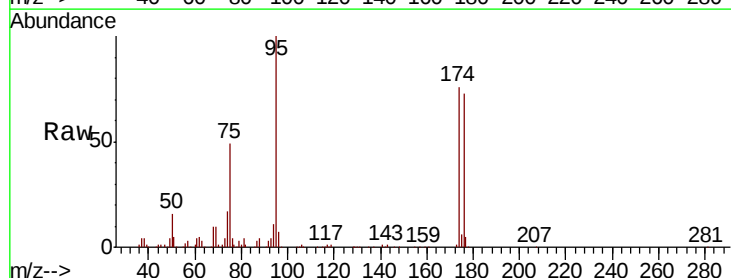
Instrument :  
 MSVOA\_N  
 ClientSampled :

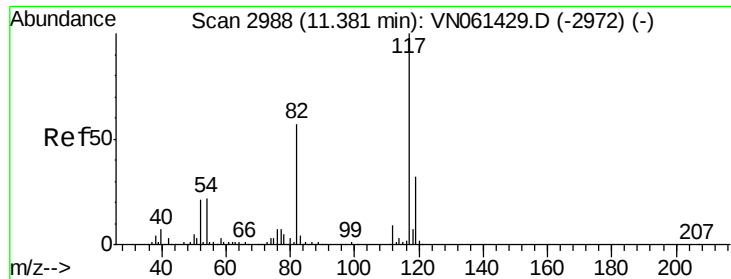
Tot Ion:107 Resp: 82212  
 Ion Ratio Lower Upper  
 107 100  
 109 97.2 75.7 113.5



#62  
 4-Bromofluorobenzene  
 Concen: 48.377 ug/l  
 RT: 12.37 min Scan# 3297  
 Delta R.T. 0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

Tgt Ion: 95 Resp: 248101  
 Ion Ratio Lower Upper  
 95 100  
 174 76.8 0.0 141.2  
 176 74.1 0.0 137.6

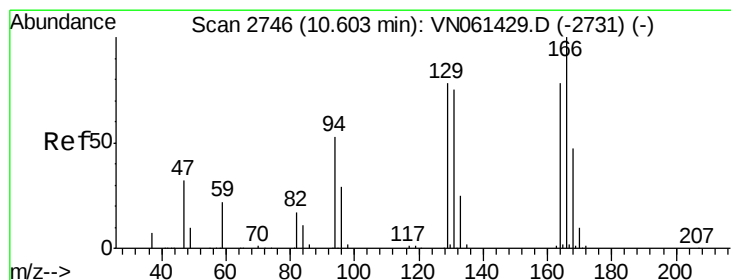
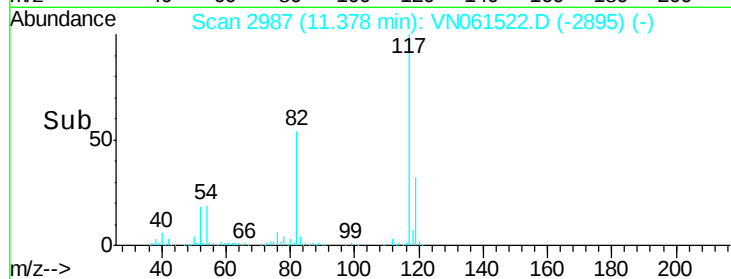
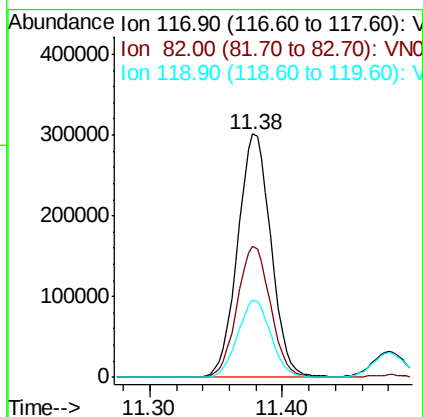
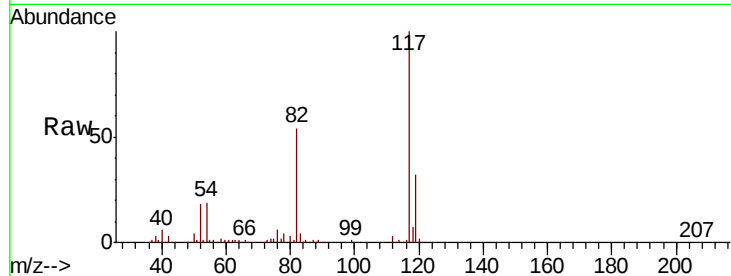




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2987  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

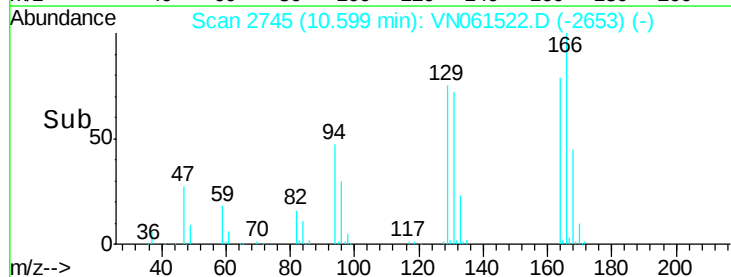
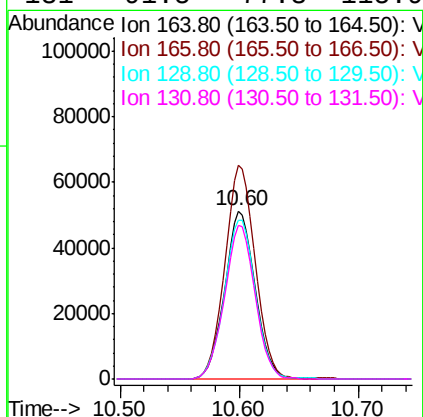
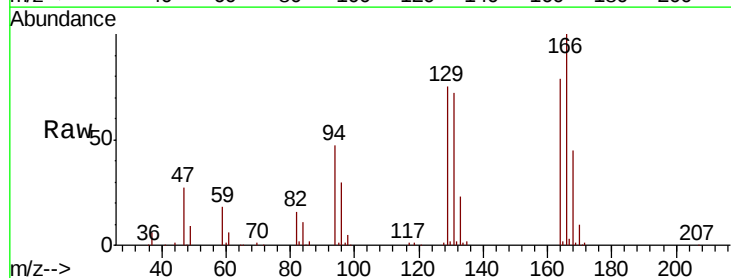
Instrument :  
MSVOA\_N  
ClientSampleId :

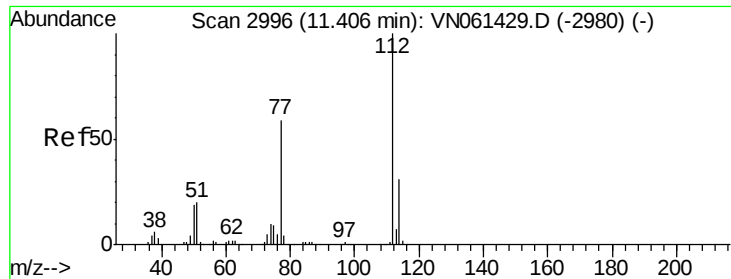
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.0  | 45.2  | 67.8  |
| 119     | 31.6  | 25.3  | 37.9  |



#64  
Tetrachloroethene  
Concen: 22.313 ug/l  
RT: 10.60 min Scan# 2745  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 127.3 | 103.2 | 154.8 |
| 129     | 95.0  | 81.0  | 121.4 |
| 131     | 91.5  | 77.3  | 115.9 |





#65

Chlorobenzene

Concen: 20.987 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

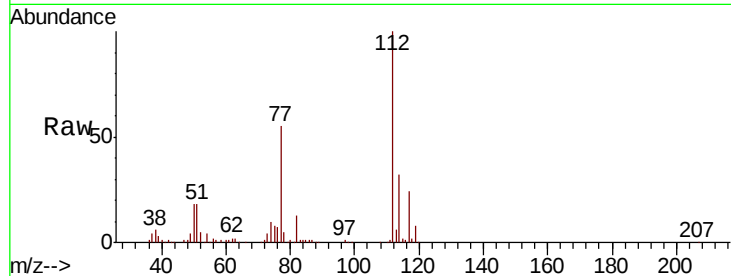
ClientSampled :

Tot Ion:112 Resp: 224946

Ion Ratio Lower Upper

112 100

114 32.1 25.0 37.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.40

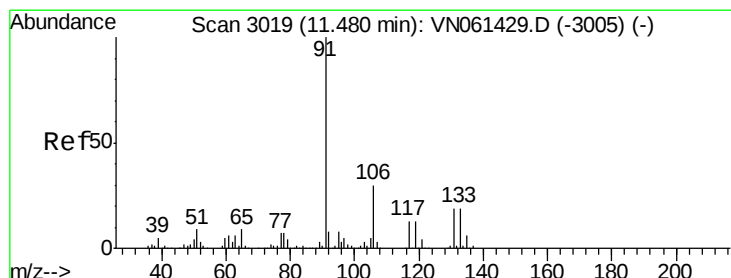
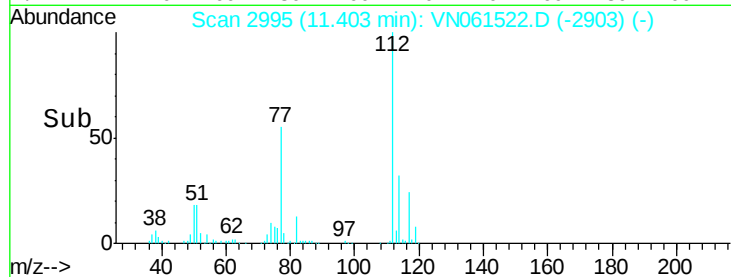
150000

100000

50000

0

Time--> 11.30 11.40 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 21.235 ug/l

RT: 11.48 min Scan# 3019

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

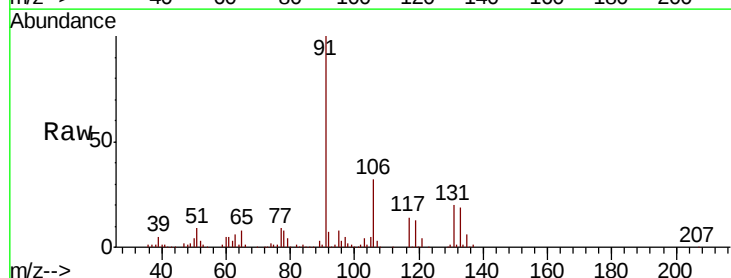
Tgt Ion:131 Resp: 81596

Ion Ratio Lower Upper

131 100

133 94.8 48.7 146.1

119 65.8 33.8 101.3



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

100000

80000

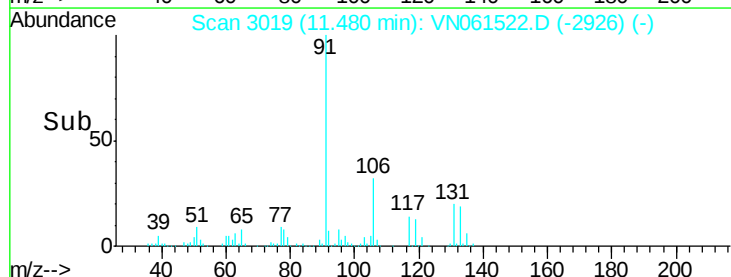
60000

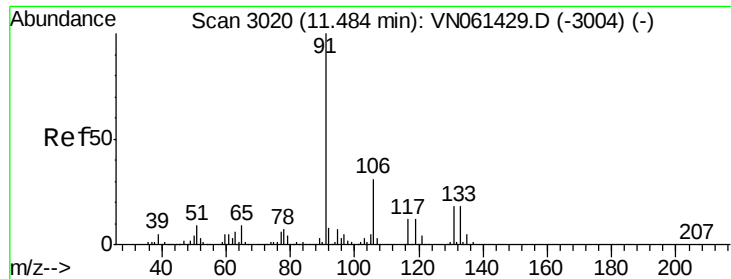
40000

20000

0

Time--> 11.40 11.45 11.50 11.55





#67

Ethyl Benzene

Concen: 20.372 ug/l

RT: 11.48 min Scan# 3020

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

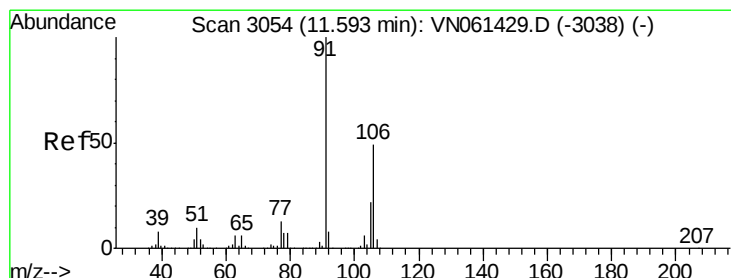
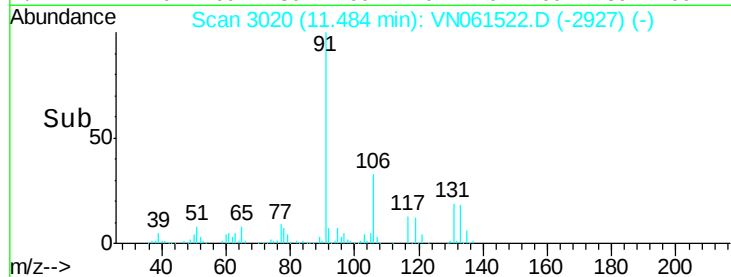
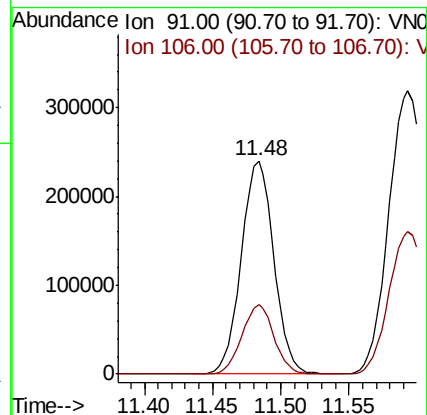
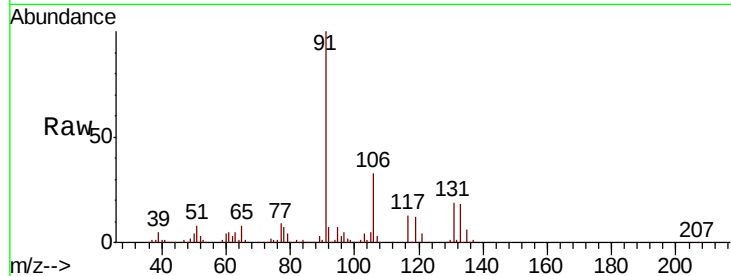
ClientSampled :

Tot Ion: 91 Resp: 398573

Ion Ratio Lower Upper

91 100

106 32.5 24.6 36.8



#68

m/p-Xylenes

Concen: 41.894 ug/l

RT: 11.59 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN061522.D

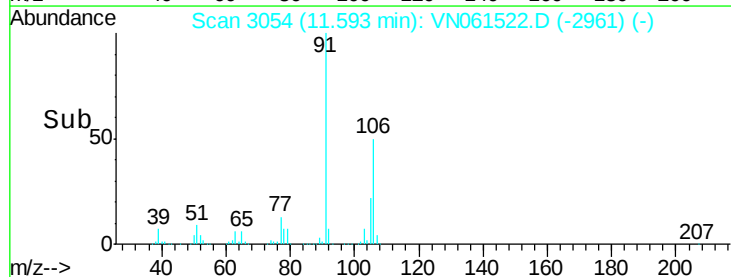
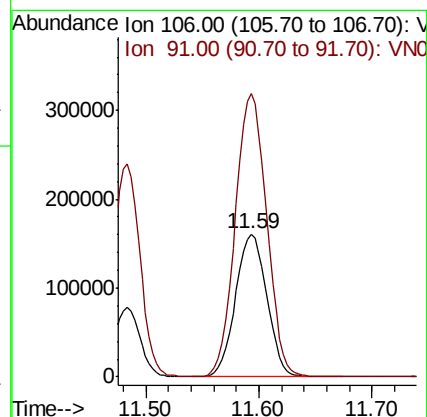
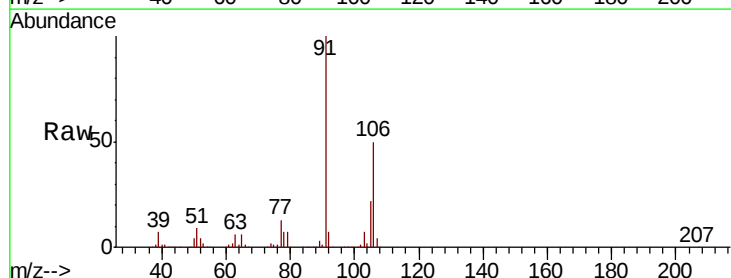
Acq: 21 May 2020 11:52

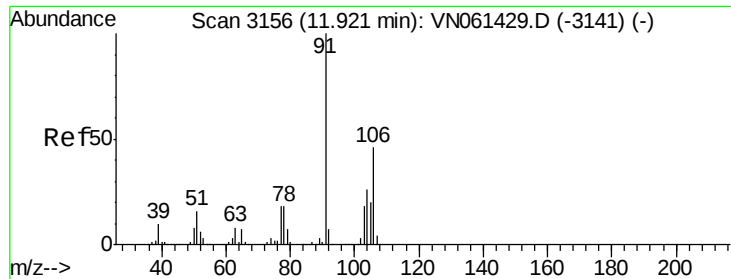
Tgt Ion: 106 Resp: 311117

Ion Ratio Lower Upper

106 100

91 198.0 163.0 244.6

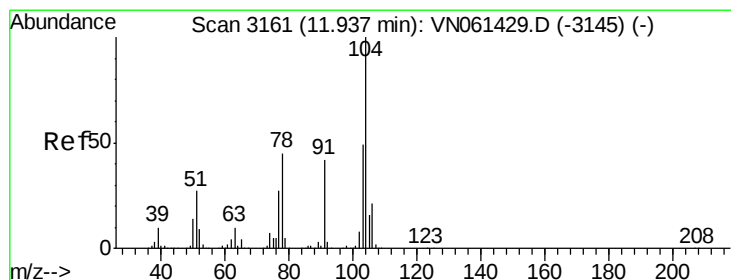
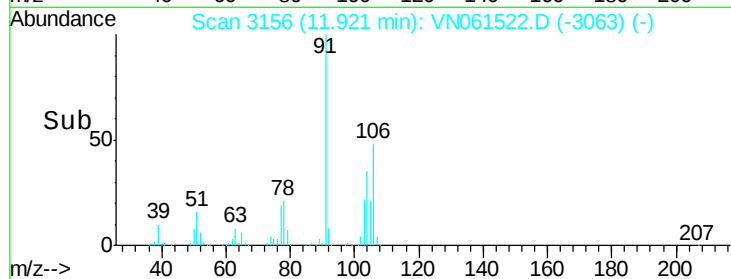
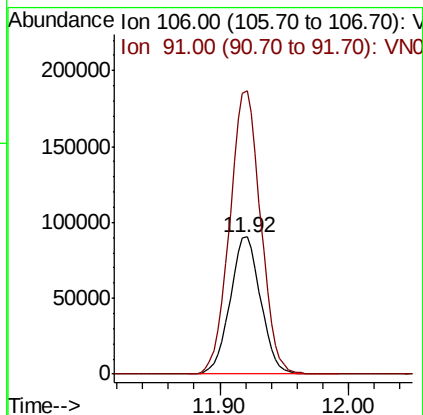
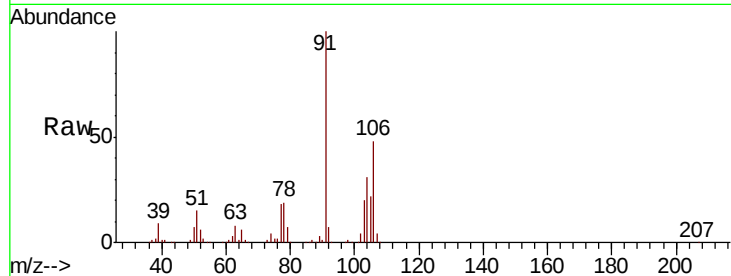




#69  
o-Xylene  
Concen: 20.674 ug/l  
RT: 11.92 min Scan# 3156  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

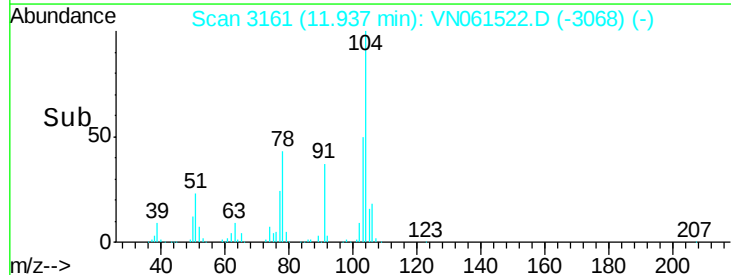
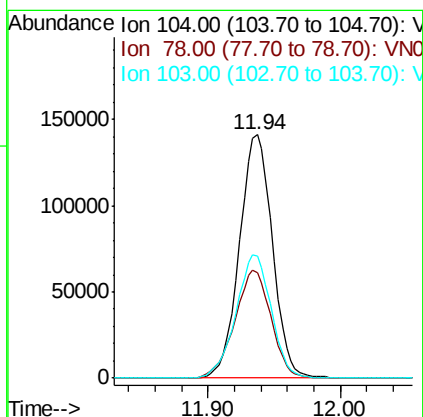
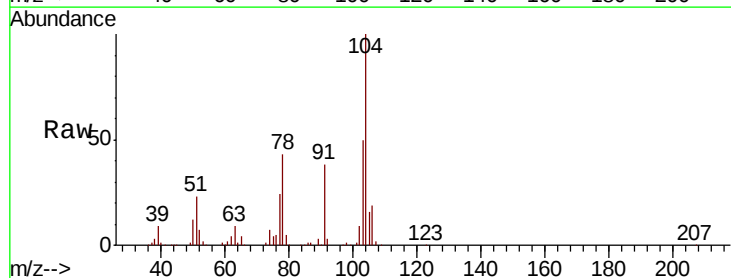
Instrument :  
MSVOA\_N  
ClientSampled :

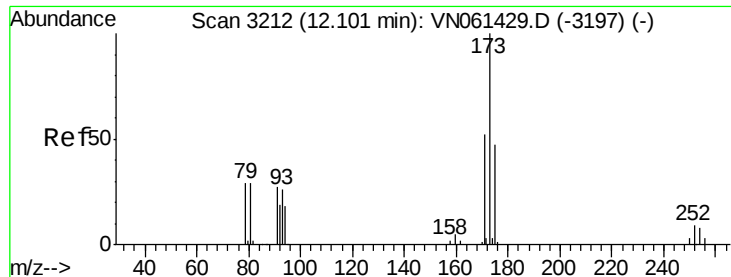
Tot Ion:106 Resp: 148572  
Ion Ratio Lower Upper  
106 100  
91 209.2 107.9 323.7



#70  
Styrene  
Concen: 20.550 ug/l  
RT: 11.94 min Scan# 3161  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion:104 Resp: 244560  
Ion Ratio Lower Upper  
104 100  
78 48.7 40.7 61.1  
103 54.4 43.0 64.4





#71

Bromoform

Concen: 19.641 ug/l

RT: 12.10 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampled :

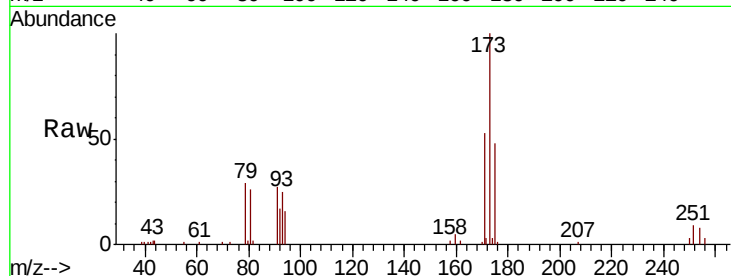
Tot Ion:173 Resp: 54868

Ion Ratio Lower Upper

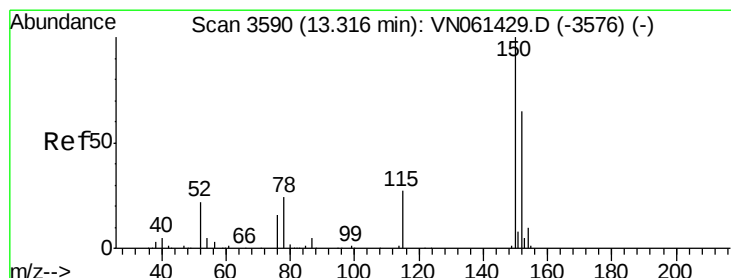
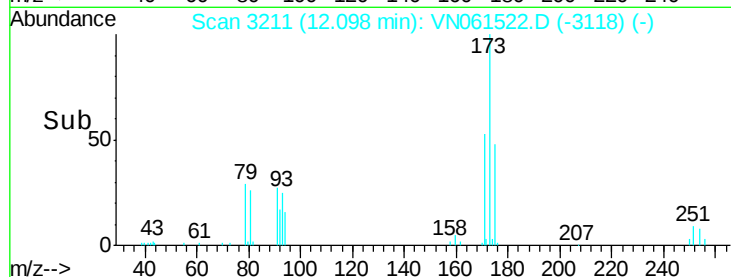
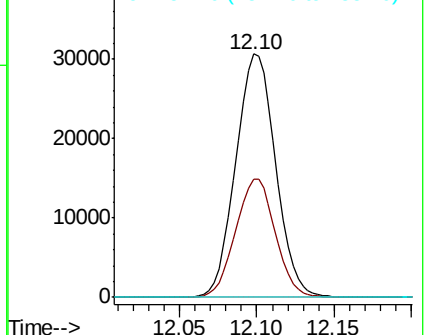
173 100

175 48.5 23.9 71.8

254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

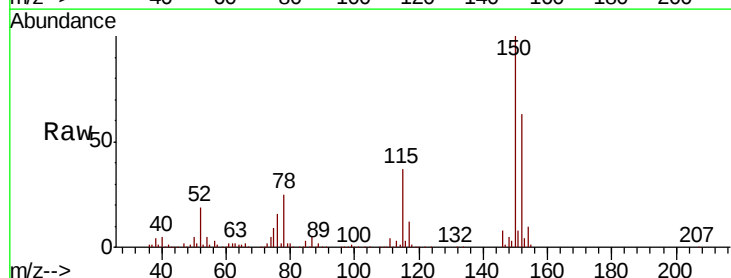
Tgt Ion:152 Resp: 249657

Ion Ratio Lower Upper

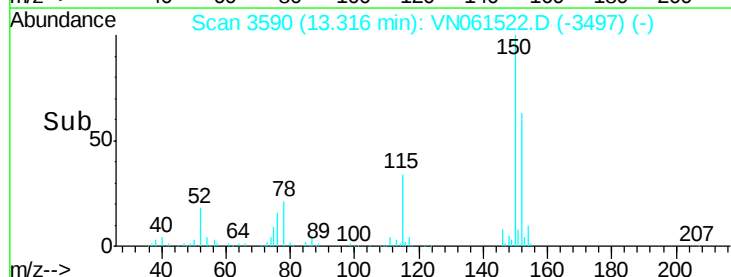
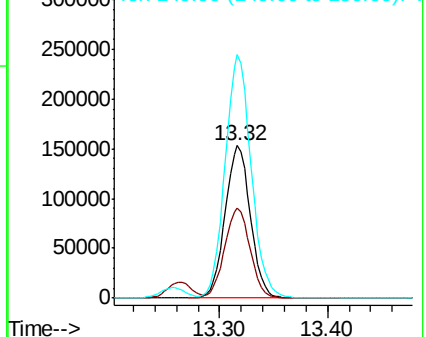
152 100

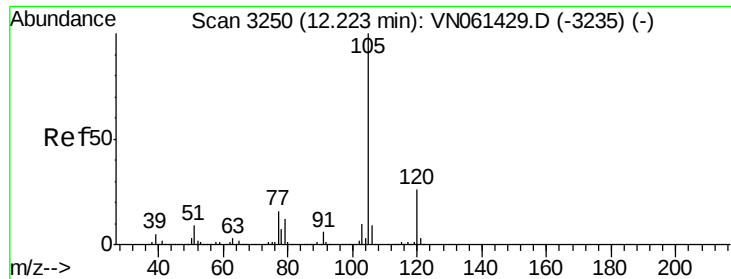
115 59.6 30.9 92.5

150 164.6 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.611 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

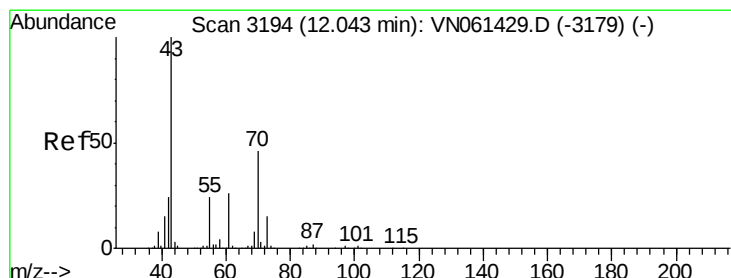
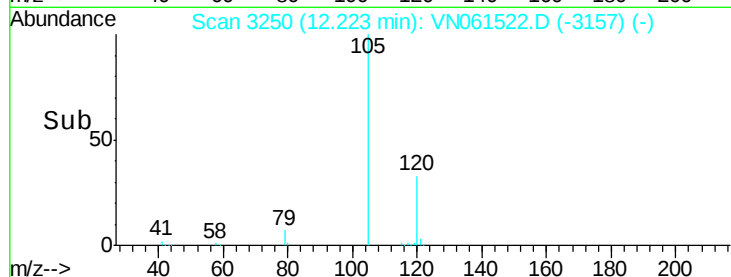
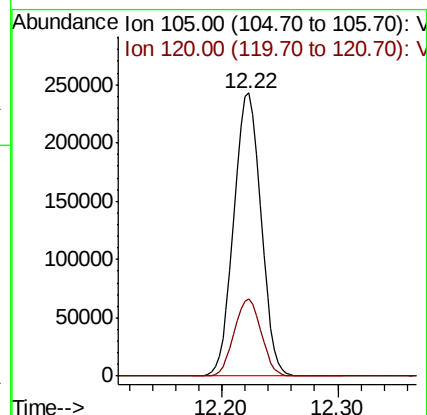
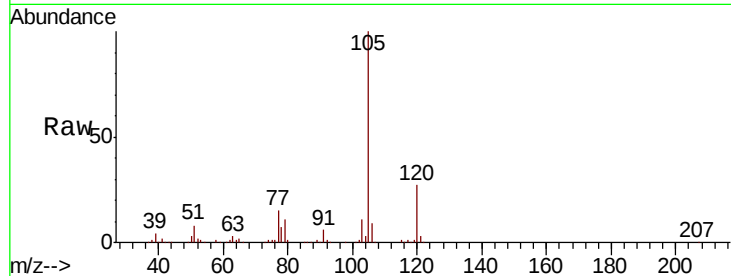
ClientSampled :

Tot Ion:105 Resp: 393047

Ion Ratio Lower Upper

105 100

120 27.0 13.0 39.0



#74

N-ethyl acetate

Concen: 16.058 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Tgt Ion: 43 Resp: 117803

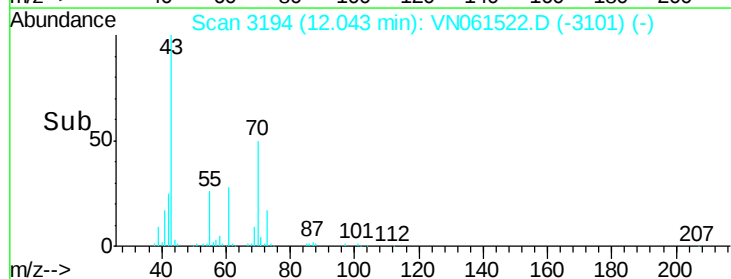
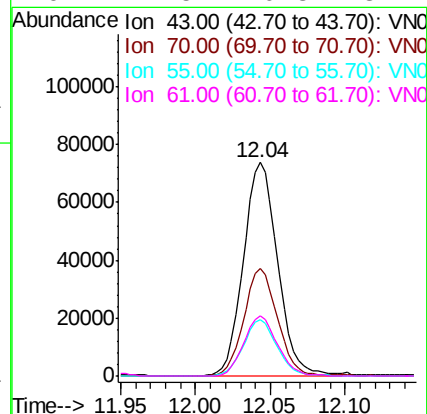
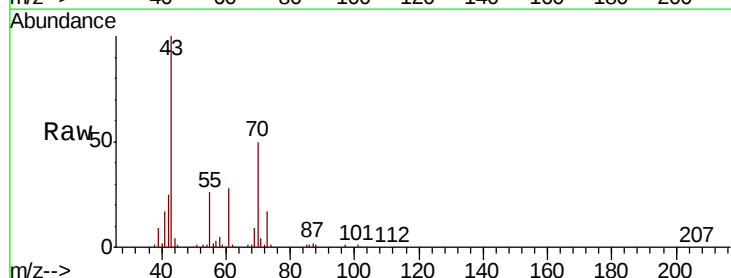
Ion Ratio Lower Upper

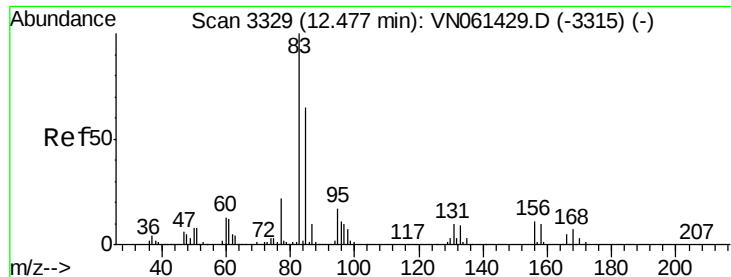
43 100

70 49.0 37.0 55.4

55 26.0 19.5 29.3

61 27.5 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 18.737 ug/l

RT: 12.48 min Scan# 3329

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

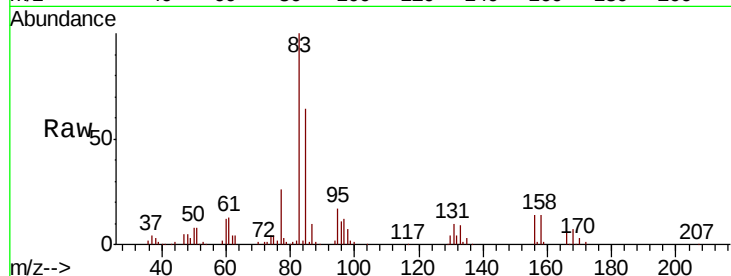
Tot Ion: 83 Resp: 103317

Ion Ratio Lower Upper

83 100

131 10.5 4.8 14.4

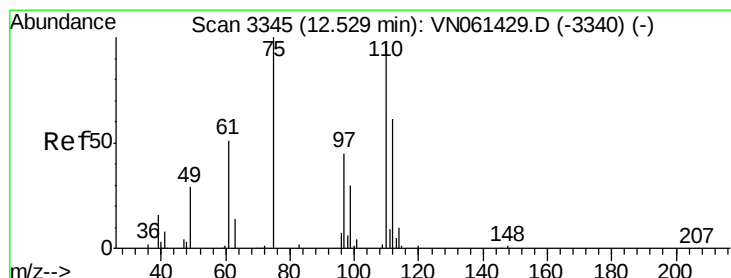
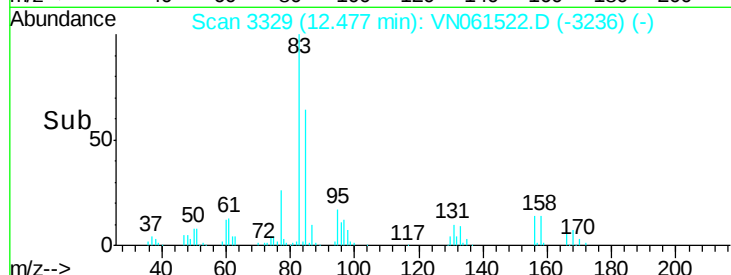
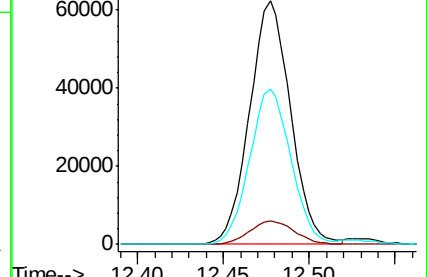
85 64.2 32.1 96.5



Abundance Ion 82.90 (82.60 to 83.60): VN061522.D (-3236) (-)

Ion 130.80 (130.50 to 131.50): VN061522.D (-3236) (-)

Ion 84.90 (84.60 to 85.60): VN061522.D (-3236) (-)



#76

1,2,3-Trichloropropane

Concen: 25.240 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN061522.D

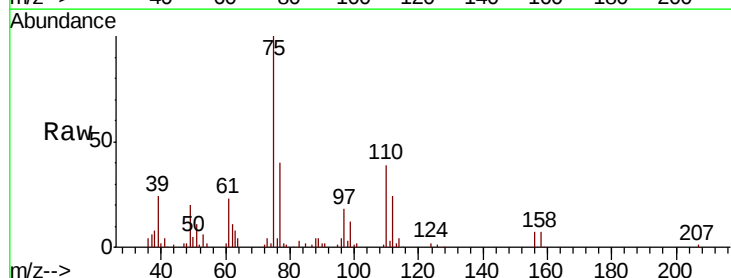
Acq: 21 May 2020 11:52

Tgt Ion: 75 Resp: 135209

Ion Ratio Lower Upper

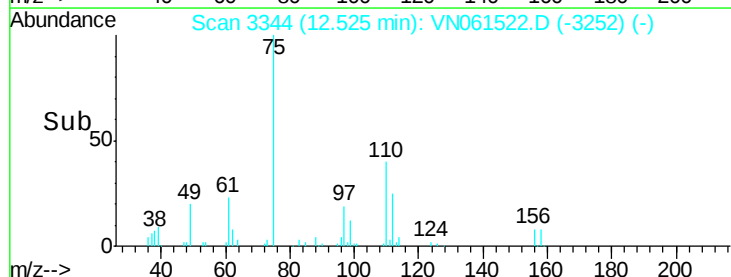
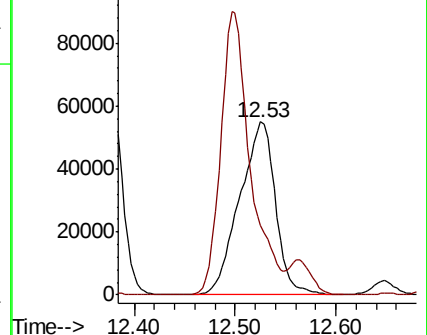
75 100

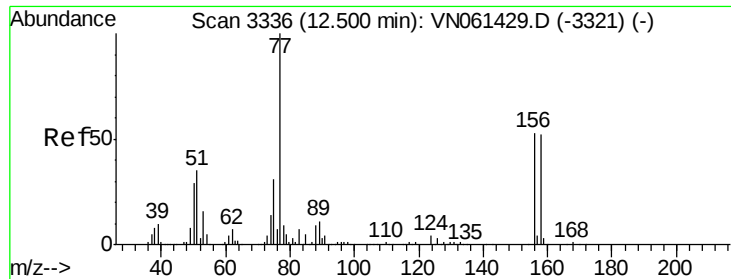
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN061522.D (-3252) (-)

Ion 77.00 (76.70 to 77.70): VN061522.D (-3252) (-)





#77

Bromobenzene

Concen: 21.634 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampled :

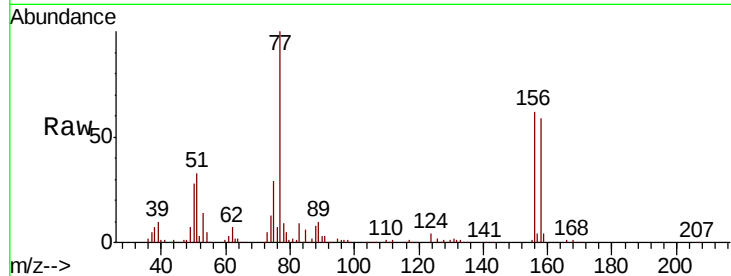
Tot Ion:156 Resp: 94102

Ion Ratio Lower Upper

156 100

77 195.2 112.3 336.9

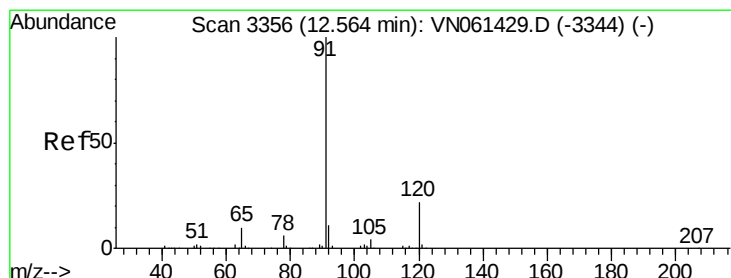
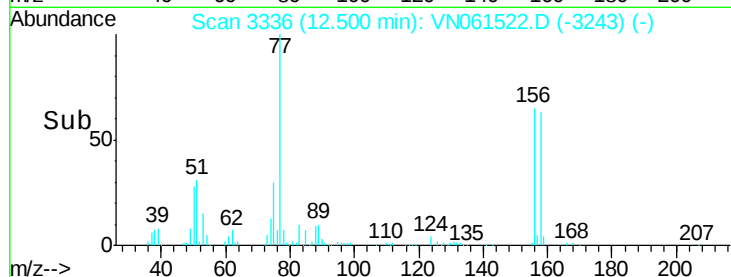
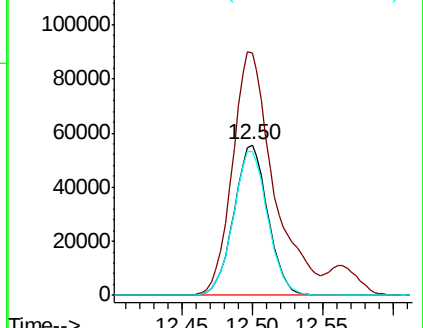
158 96.9 47.9 143.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.303 ug/l

RT: 12.56 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VN061522.D

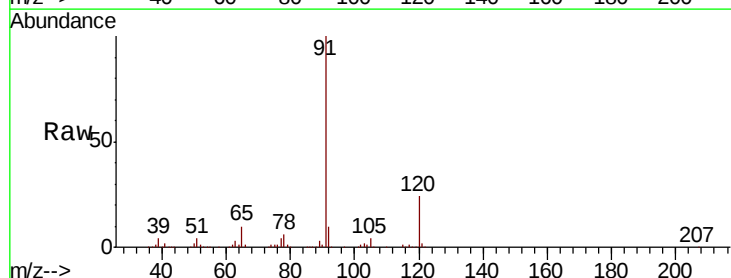
Acq: 21 May 2020 11:52

Tgt Ion: 91 Resp: 440801

Ion Ratio Lower Upper

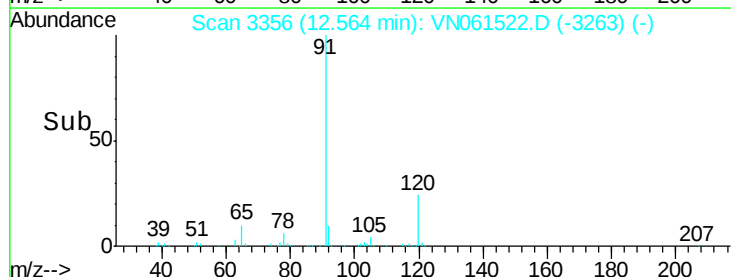
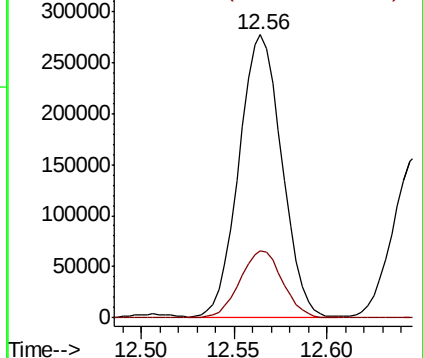
91 100

120 23.8 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

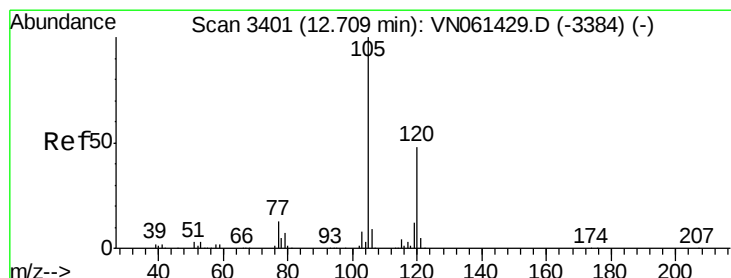
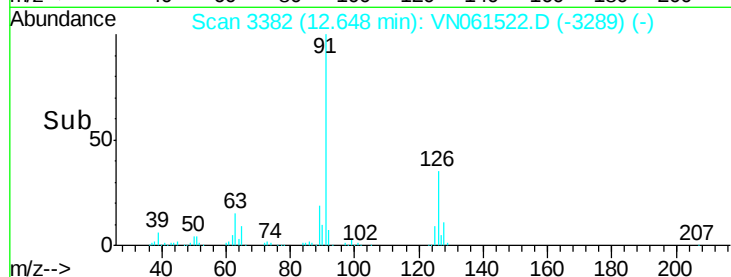
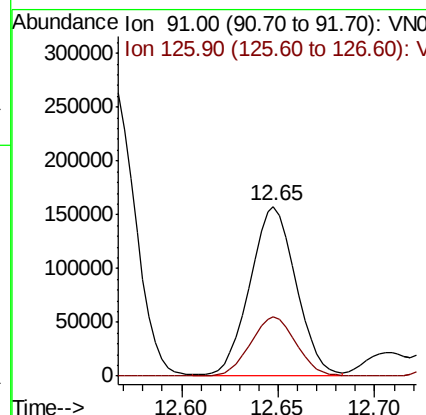
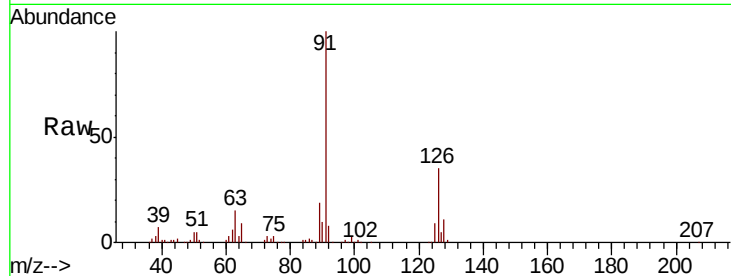




#79  
 2-Chlorotoluene  
 Concen: 19.215 ug/l  
 RT: 12.65 min Scan# 3382  
 Delta R.T. 0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

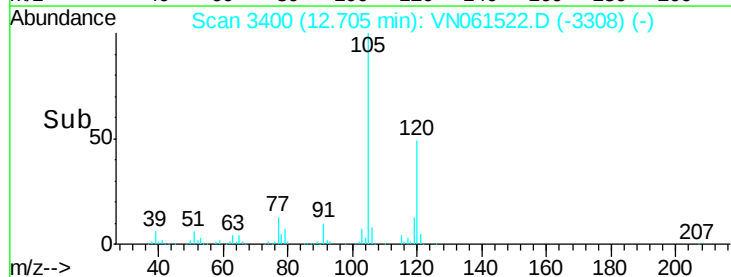
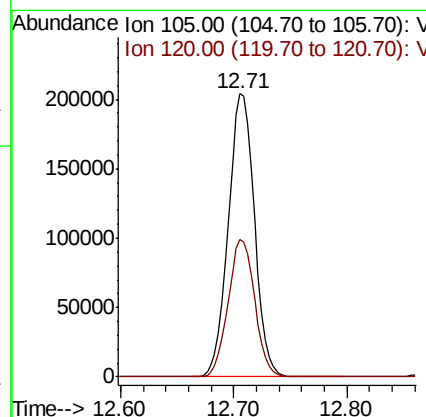
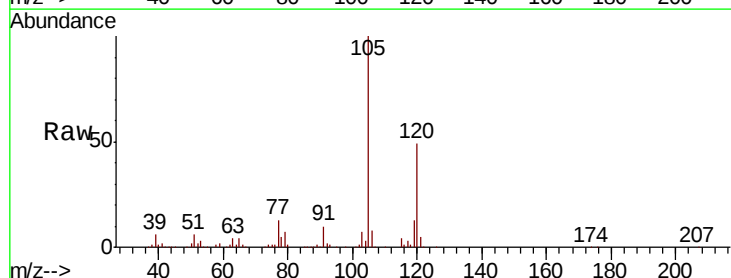
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tot Ion: 91 Resp: 259361  
 Ion Ratio Lower Upper  
 91 100  
 126 35.1 16.3 48.9



#80  
 1,3,5-Trimethylbenzene  
 Concen: 19.908 ug/l  
 RT: 12.71 min Scan# 3400  
 Delta R.T. -0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

Tgt Ion: 105 Resp: 326698  
 Ion Ratio Lower Upper  
 105 100  
 120 49.6 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 16.314 ug/l

RT: 12.27 min Scan# 3266

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

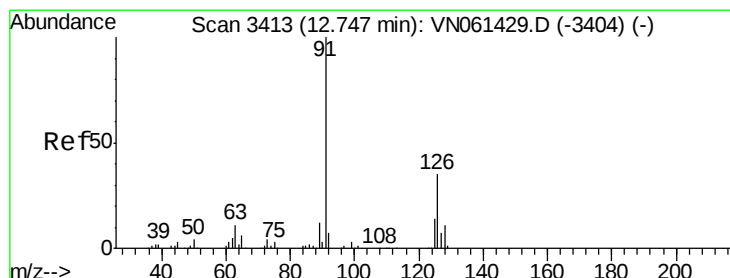
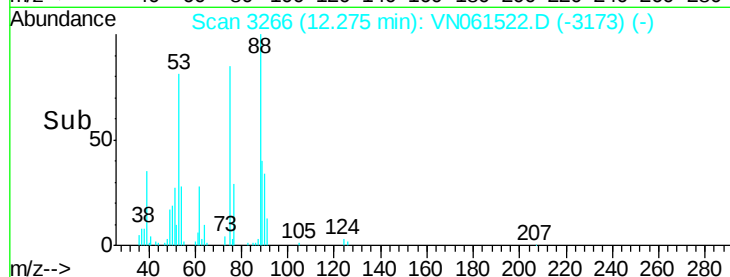
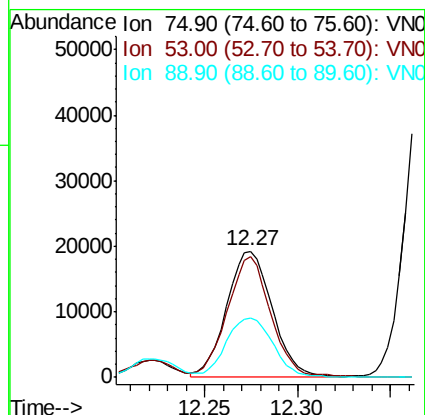
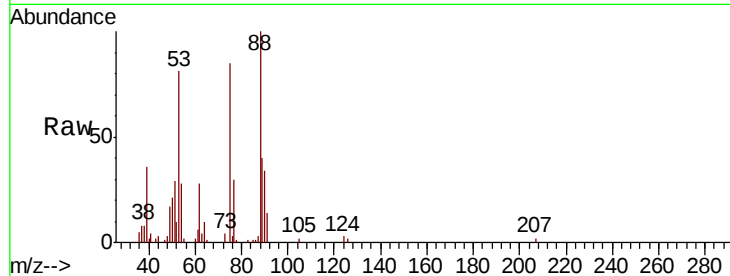
Tot Ion: 75 Resp: 32944

Ion Ratio Lower Upper

75 100

53 87.6 75.2 112.8

89 48.1 38.2 57.4



#82

4-Chlorotoluene

Concen: 19.351 ug/l

RT: 12.74 min Scan# 3412

Delta R.T. -0.00 min

Lab File: VN061522.D

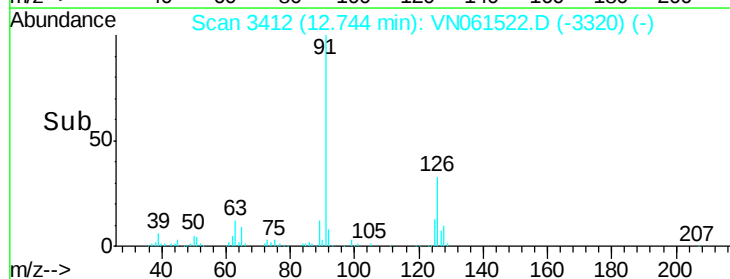
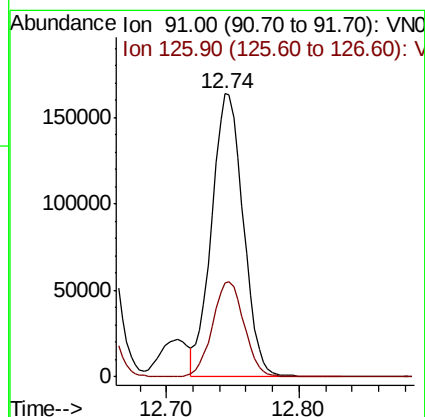
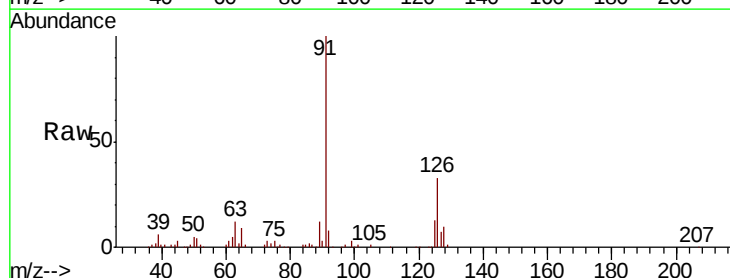
Acq: 21 May 2020 11:52

Tgt Ion: 91 Resp: 270460

Ion Ratio Lower Upper

91 100

126 33.9 16.1 48.2

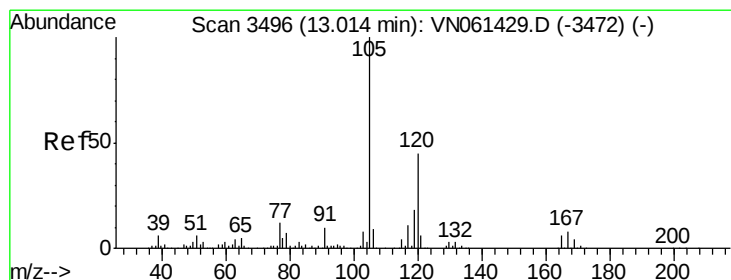
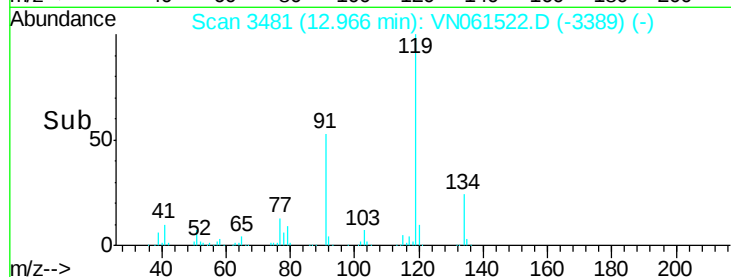
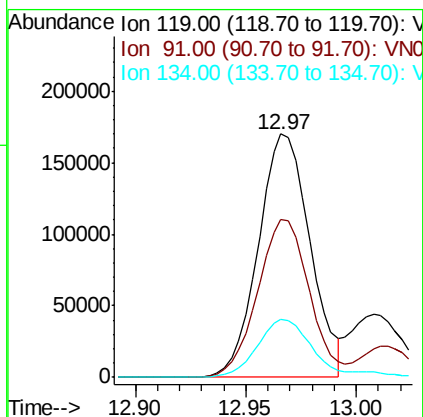
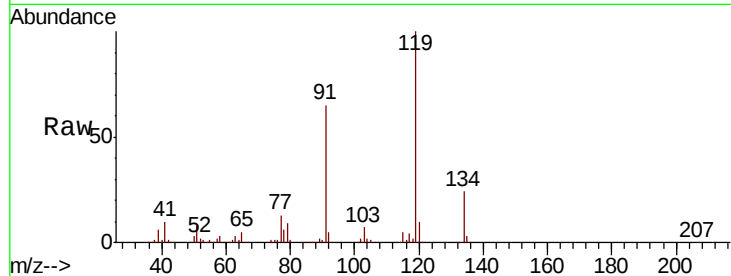




#83  
tert-Butylbenzene  
Concen: 19.649 ug/l  
RT: 12.97 min Scan# 3481  
Delta R.T. -0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

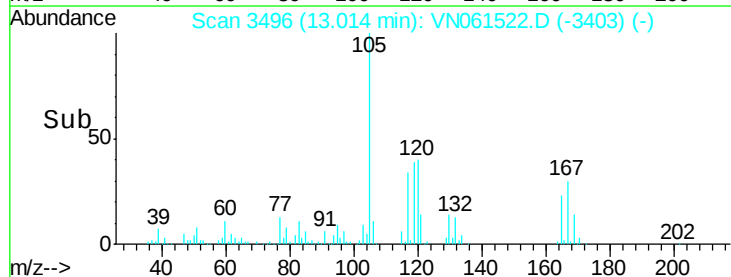
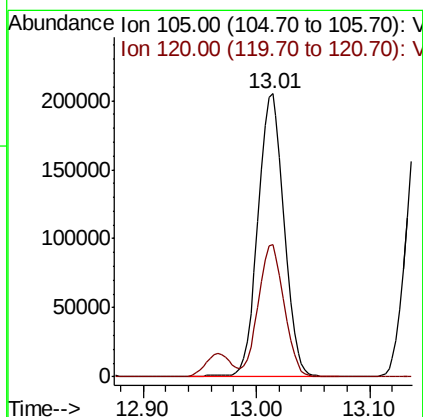
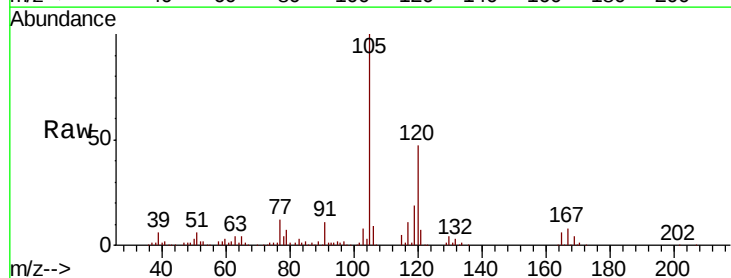
Instrument :  
MSVOA\_N  
ClientSampled :

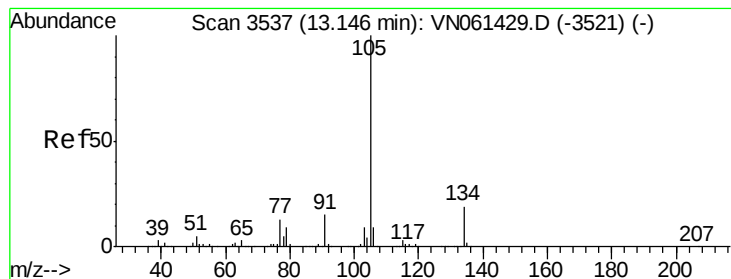
Tot Ion:119 Resp: 276206  
Ion Ratio Lower Upper  
119 100  
91 64.9 33.7 101.0  
134 26.2 12.8 38.3



#84  
1,2,4-Trimethylbenzene  
Concen: 20.100 ug/l  
RT: 13.01 min Scan# 3496  
Delta R.T. 0.00 min  
Lab File: VN061522.D  
Acq: 21 May 2020 11:52

Tgt Ion:105 Resp: 330111  
Ion Ratio Lower Upper  
105 100  
120 46.2 22.4 67.3





#85

sec-Butylbenzene

Concen: 19.109 ug/l

RT: 13.15 min Scan# 3537

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

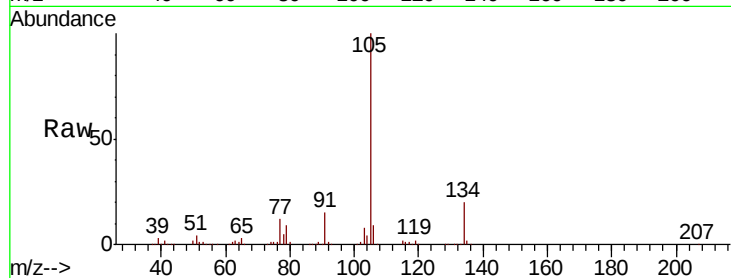
ClientSampled :

Tot Ion:105 Resp: 363228

Ion Ratio Lower Upper

105 100

134 20.7 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.15

250000

200000

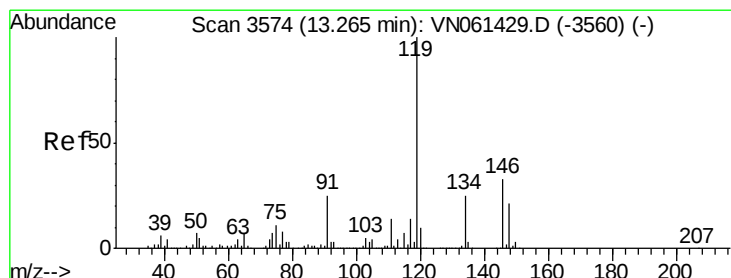
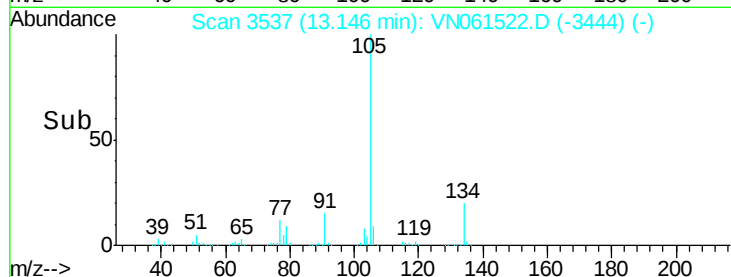
150000

100000

50000

0

Time--> 13.05 13.10 13.15 13.20



#86

p-Isopropyltoluene

Concen: 19.838 ug/l

RT: 13.26 min Scan# 3573

Delta R.T. -0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

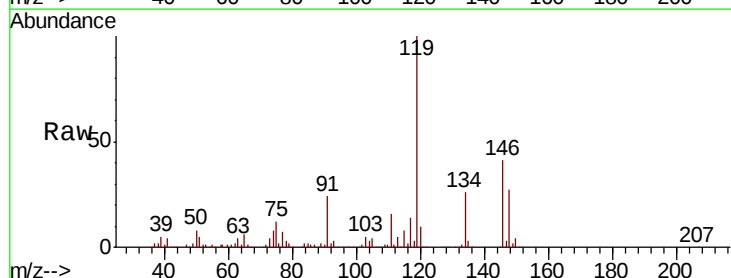
Tgt Ion:119 Resp: 334840

Ion Ratio Lower Upper

119 100

134 25.8 12.7 38.1

91 23.3 12.6 37.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.26

300000

250000

200000

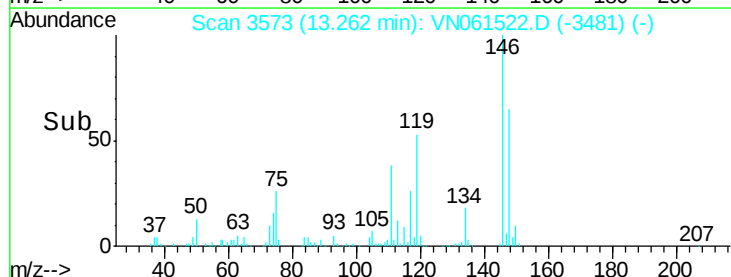
150000

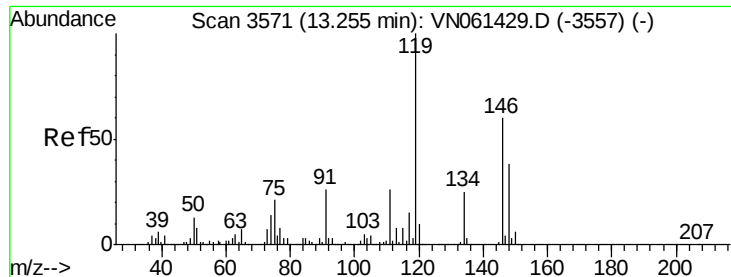
100000

50000

0

Time--> 13.20 13.30 13.40





#87

1,3-Dichlorobenzene

Concen: 20.928 ug/l

RT: 13.26 min Scan# 3572

Delta R.T. 0.00 min

Lab File: VN061522.D

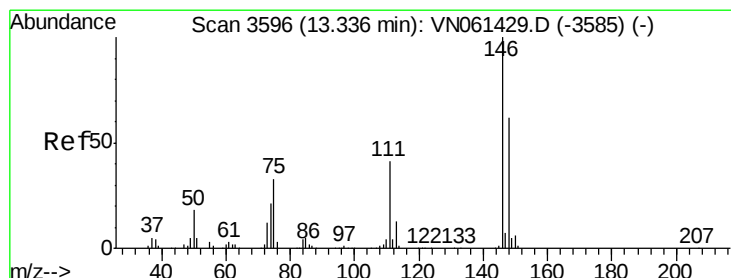
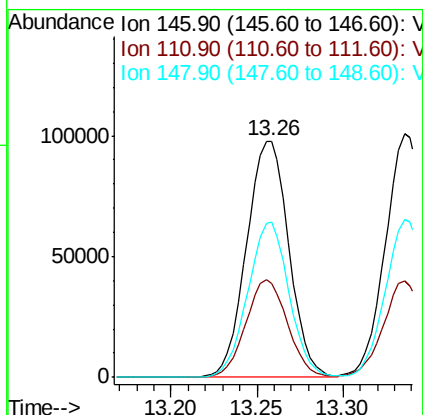
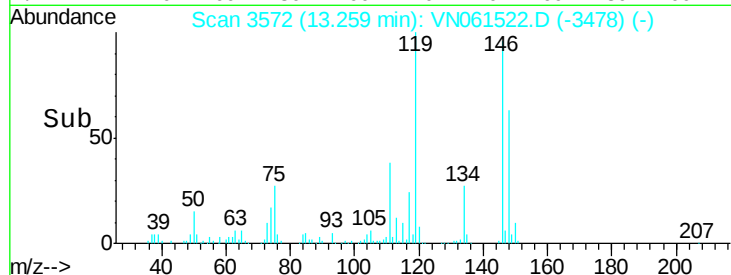
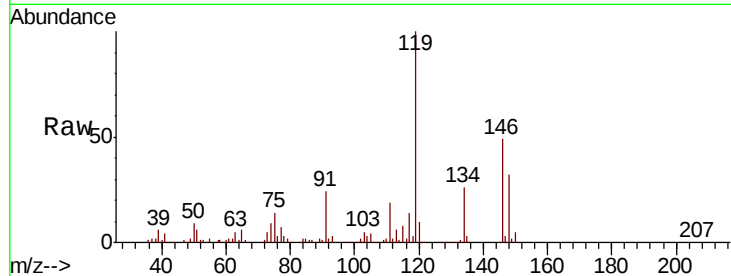
Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampled :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:146 | Resp: | 166596    |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 40.6  | 21.5 64.5 |
| 148         | 64.1  | 31.8 95.3 |



#88

1,4-Dichlorobenzene

Concen: 21.098 ug/l

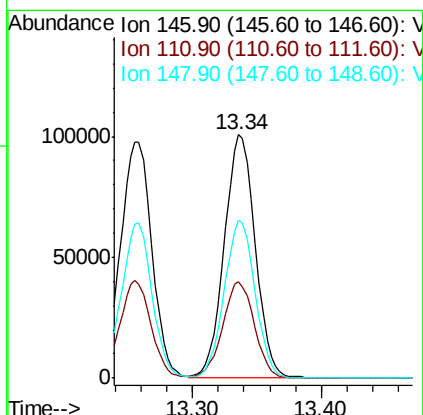
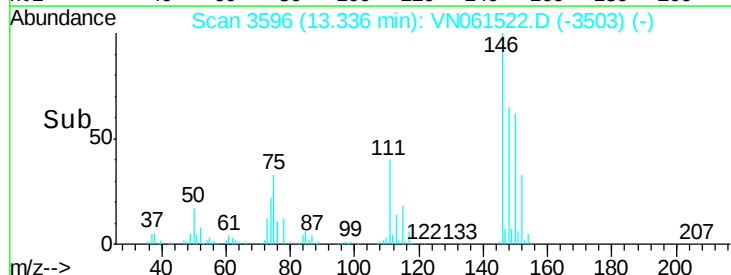
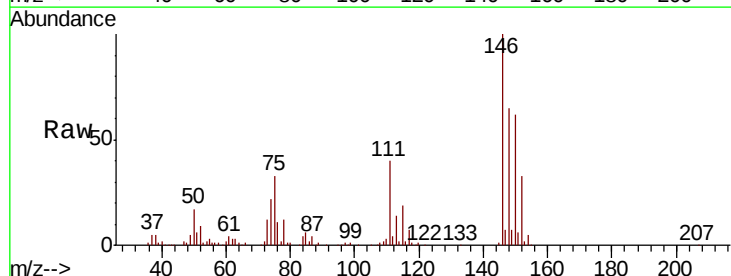
RT: 13.34 min Scan# 3596

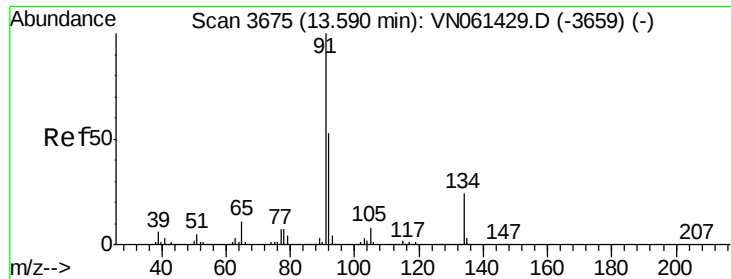
Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 168199    |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 40.7  | 20.8 62.5 |
| 148         | 63.9  | 31.6 94.8 |





#89

n-Butylbenzene

Concen: 18.325 ug/l

RT: 13.59 min Scan# 3675

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

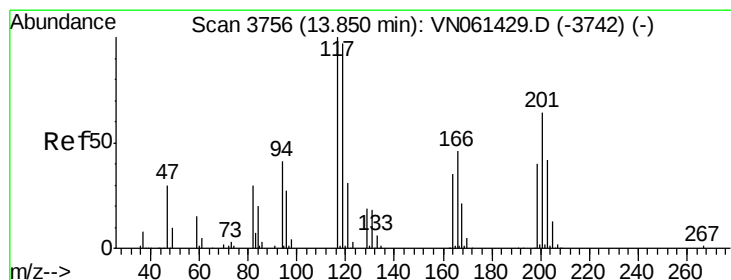
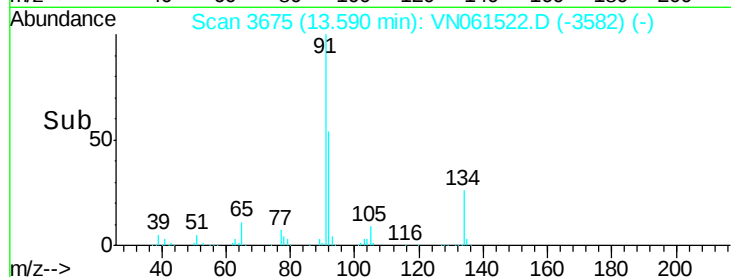
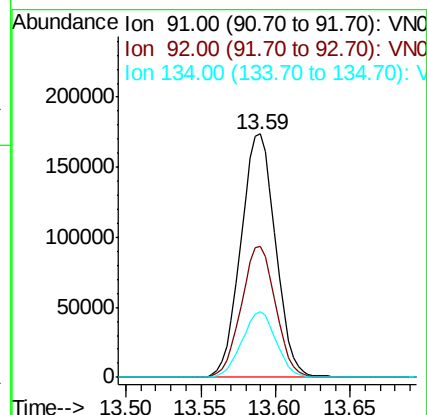
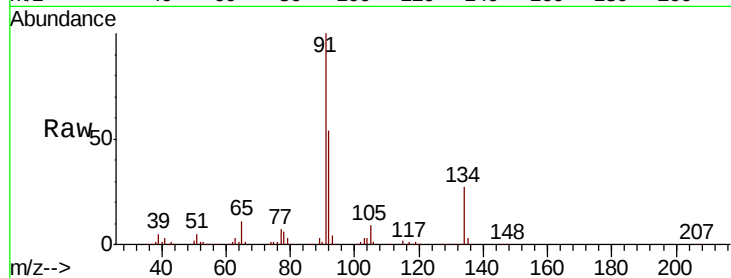
Tot Ion: 91 Resp: 280993

Ion Ratio Lower Upper

91 100

92 53.4 26.8 80.3

134 26.8 12.4 37.4



#90

Hexachloroethane

Concen: 18.796 ug/l

RT: 13.85 min Scan# 3755

Delta R.T. -0.00 min

Lab File: VN061522.D

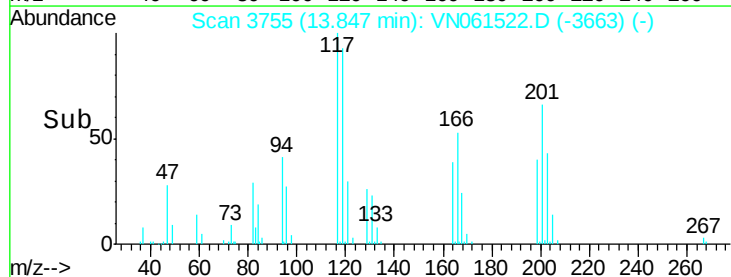
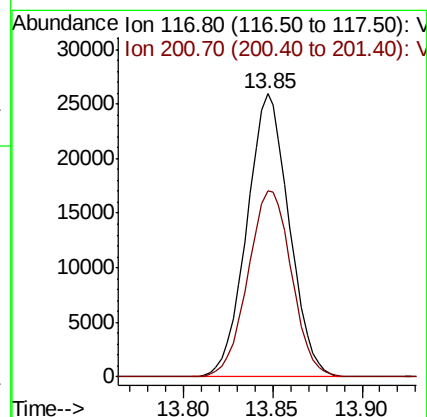
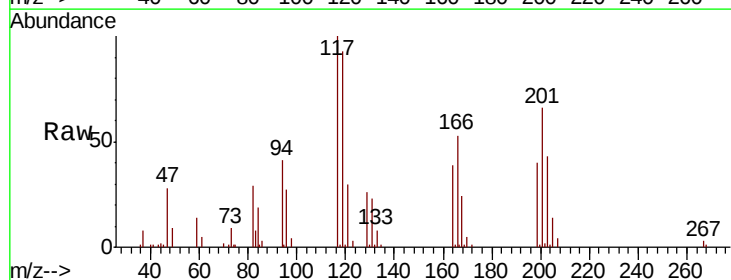
Acq: 21 May 2020 11:52

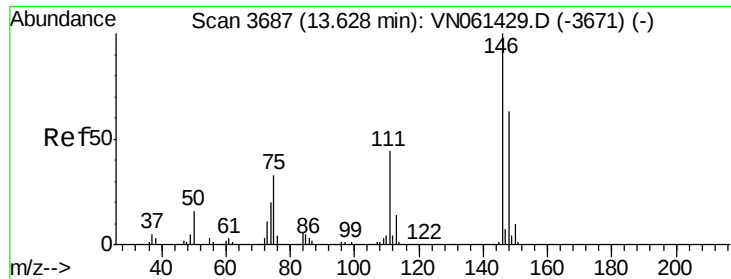
Tgt Ion: 117 Resp: 42995

Ion Ratio Lower Upper

117 100

201 67.8 32.9 98.7





#91

1,2-Dichlorobenzene

Concen: 21.057 ug/l

RT: 13.63 min Scan# 3687

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

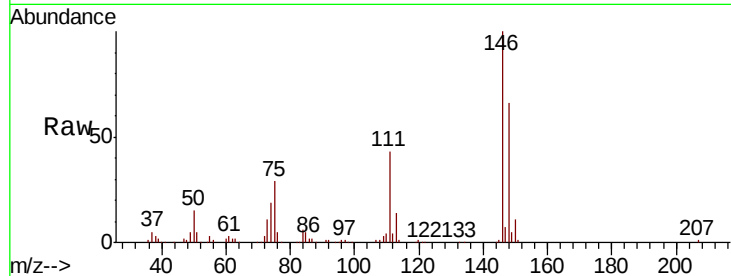
Tot Ion:146 Resp: 160787

Ion Ratio Lower Upper

146 100

111 42.7 21.9 65.7

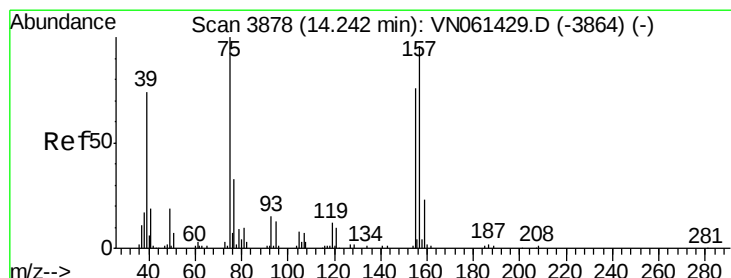
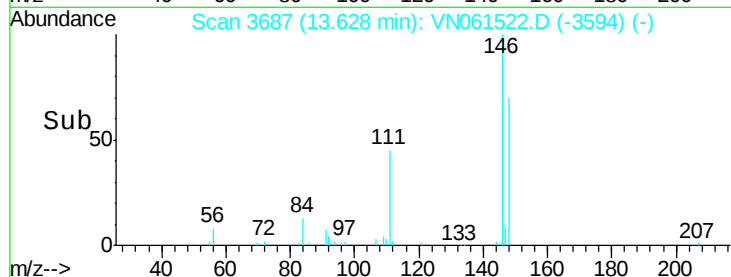
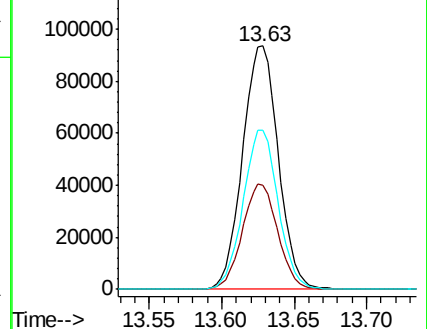
148 64.2 31.6 94.7



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 17.429 ug/l

RT: 14.24 min Scan# 3878

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

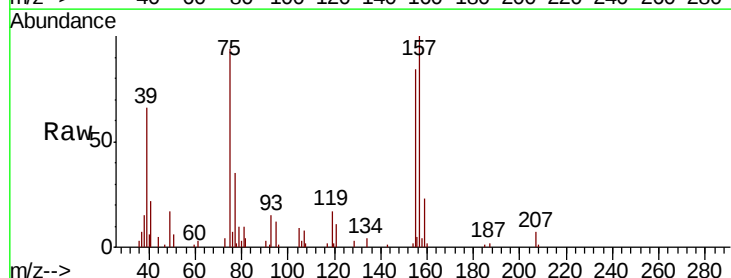
Tgt Ion: 75 Resp: 19414

Ion Ratio Lower Upper

75 100

155 82.9 38.9 116.7

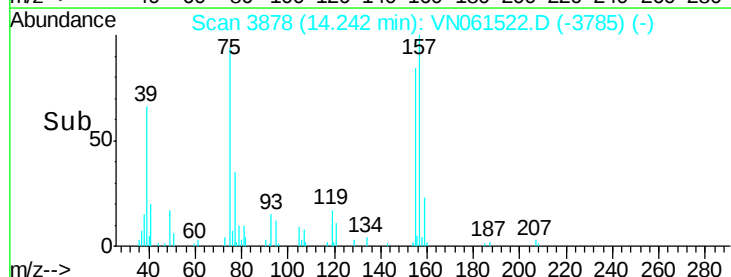
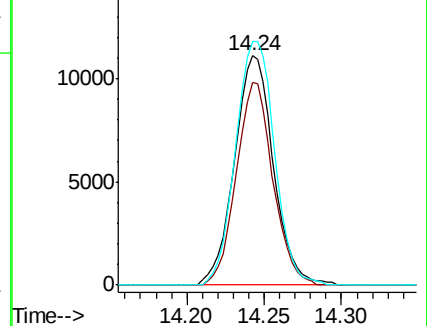
157 106.3 48.6 145.8



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

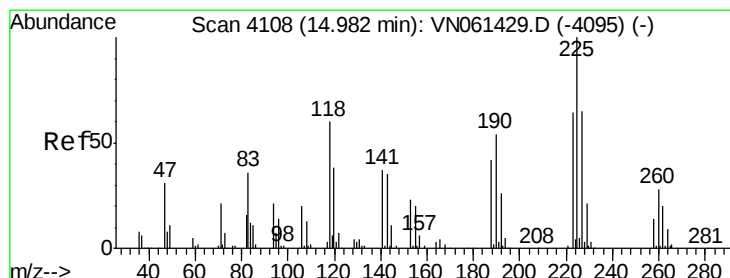
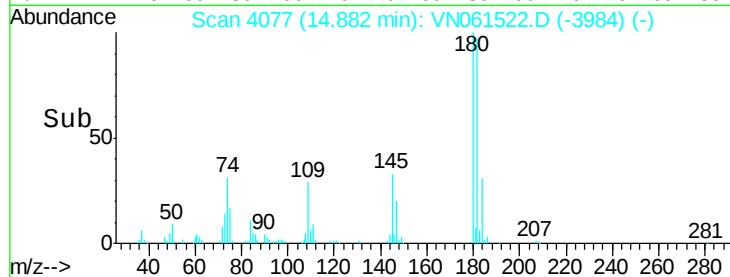
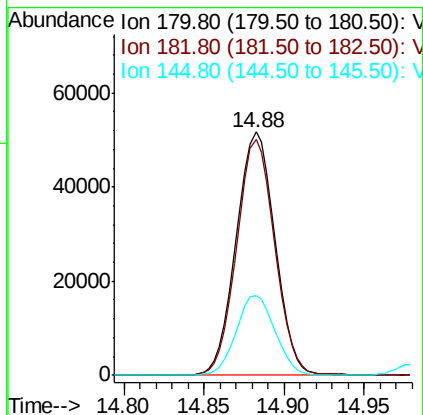
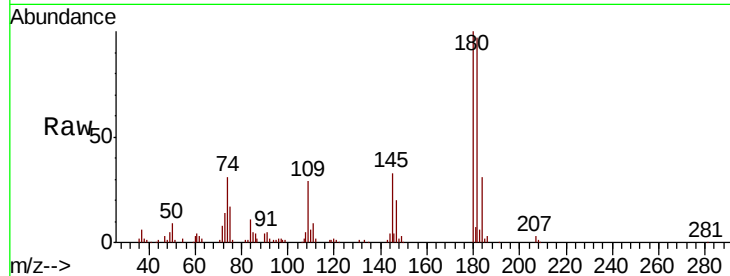




#93  
 1,2,4-Trichlorobenzene  
 Concen: 20.614 ug/l  
 RT: 14.88 min Scan# 4077  
 Delta R.T. 0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

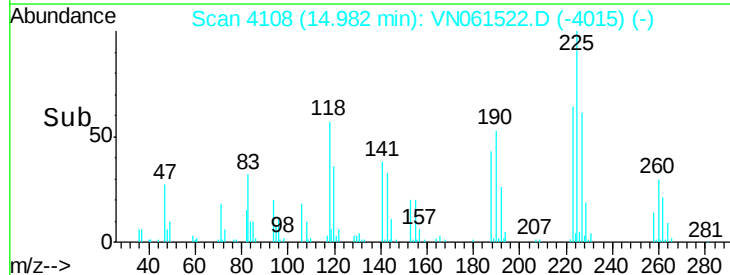
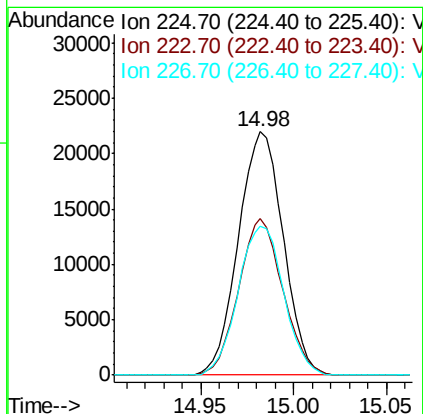
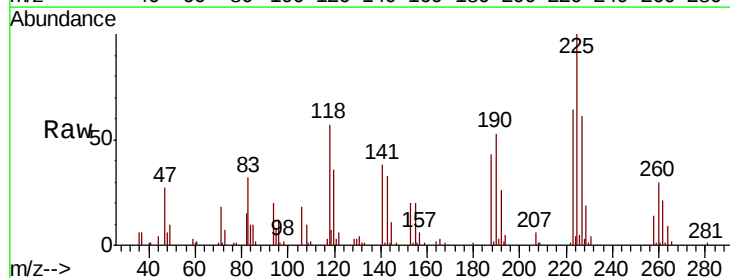
Instrument :  
 MSVOA\_N  
 ClientSampleId :

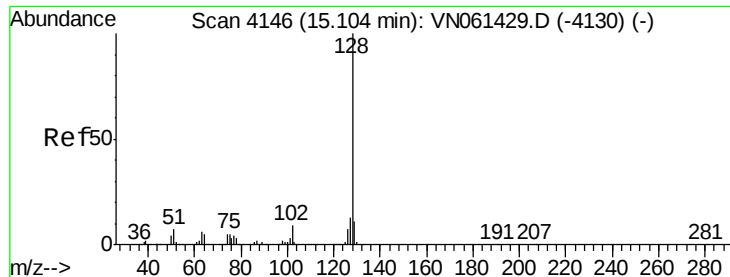
Tot Ion:180 Resp: 85349  
 Ion Ratio Lower Upper  
 180 100  
 182 95.0 47.0 141.0  
 145 32.8 16.7 50.0



#94  
 Hexachlorobutadiene  
 Concen: 20.120 ug/l  
 RT: 14.98 min Scan# 4108  
 Delta R.T. 0.00 min  
 Lab File: VN061522.D  
 Acq: 21 May 2020 11:52

Tgt Ion:225 Resp: 37013  
 Ion Ratio Lower Upper  
 225 100  
 223 63.4 31.9 95.7  
 227 62.1 31.5 94.5





#95

Naphthalene

Concen: 19.888 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

Instrument :

MSVOA\_N

ClientSampleId :

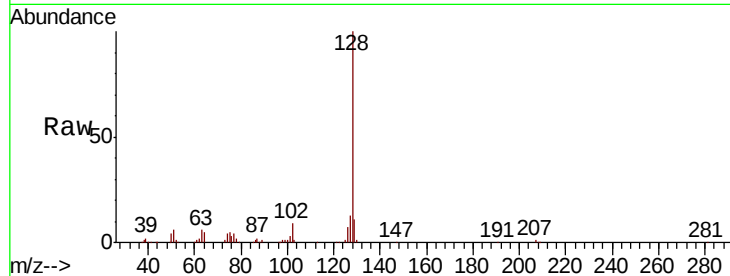
Tot Ion:128 Resp: 261779

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

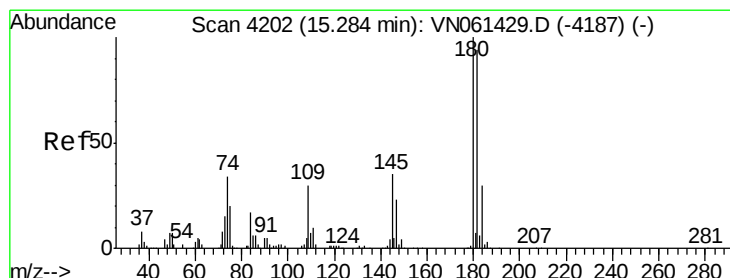
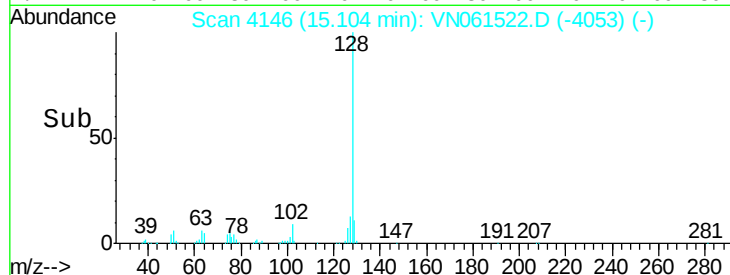
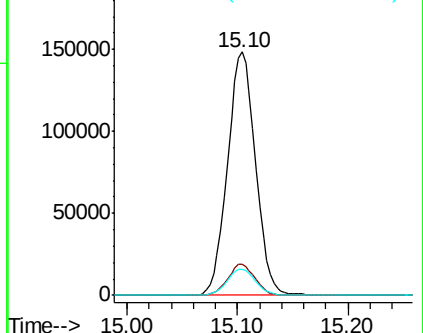
129 11.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.870 ug/l

RT: 15.28 min Scan# 4202

Delta R.T. 0.00 min

Lab File: VN061522.D

Acq: 21 May 2020 11:52

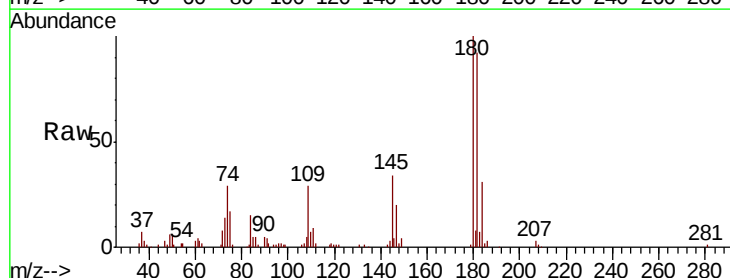
Tgt Ion:180 Resp: 86022

Ion Ratio Lower Upper

180 100

182 92.8 47.8 143.3

145 34.1 17.3 51.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

