

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092519\  
 Data File : VN058368.D  
 Acq On : 25 Sep 2019 15:33  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 26 01:11:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 438017   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 746868   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 673782   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 338738   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 304511   | 49.91 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.82% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 220432   | 48.55 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.10% |          |
| 50) Toluene-d8              | 10.08 | 98   | 844764   | 47.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.50% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 315884   | 48.07 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.14% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.83 | 85   | 143335   | 39.835  | ug/l  | 99     |
| 3) Chloromethane              | 2.04 | 50   | 129969   | 46.794  | ug/l  | 99     |
| 4) Vinyl Chloride             | 2.17 | 62   | 138428   | 45.561  | ug/l  | 98     |
| 5) Bromomethane               | 2.54 | 94   | 73617    | 45.913  | ug/l  | 96     |
| 6) Chloroethane               | 2.68 | 64   | 95316    | 49.027  | ug/l  | 98     |
| 7) Trichlorofluoromethane     | 3.00 | 101  | 212046   | 43.175  | ug/l  | 98     |
| 8) Diethyl Ether              | 3.39 | 74   | 102589   | 45.587  | ug/l  | 96     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101  | 163065   | 46.050  | ug/l  | 98     |
| 10) Methyl Iodide             | 3.93 | 142  | 131972   | 44.477  | ug/l  | 100    |
| 11) Tert butyl alcohol        | 4.76 | 59   | 207128   | 285.420 | ug/l  | 100    |
| 12) 1,1-Dichloroethene        | 3.72 | 96   | 126122   | 46.911  | ug/l  | 99     |
| 13) Acrolein                  | 3.59 | 56   | 20443    | 190.087 | ug/l  | 94     |
| 14) Allyl chloride            | 4.30 | 41   | 271256   | 46.814  | ug/l  | 100    |
| 15) Acrylonitrile             | 4.96 | 53   | 526469   | 272.294 | ug/l  | 99     |
| 16) Acetone                   | 3.80 | 43   | 533370   | 257.564 | ug/l  | 98     |
| 17) Carbon Disulfide          | 4.03 | 76   | 154385   | 40.865  | ug/l  | 99     |
| 18) Methyl Acetate            | 4.30 | 43   | 278283   | 51.070  | ug/l  | 99     |
| 19) Methyl tert-butyl Ether   | 5.02 | 73   | 675586   | 50.584  | ug/l  | 99     |
| 20) Methylene Chloride        | 4.53 | 84   | 184565   | 50.910  | ug/l  | 97     |
| 21) trans-1,2-Dichloroethene  | 5.01 | 96   | 138741   | 47.359  | ug/l  | 98     |
| 22) Diisopropyl ether         | 5.93 | 45   | 740329   | 50.298  | ug/l  | 97     |
| 23) Vinyl Acetate             | 5.87 | 43   | 2719641  | 270.035 | ug/l  | 100    |
| 24) 1,1-Dichloroethane        | 5.82 | 63   | 377050   | 47.997  | ug/l  | 100    |
| 25) 2-Butanone                | 6.81 | 43   | 767237   | 271.949 | ug/l  | 98     |
| 26) 2,2-Dichloropropane       | 6.80 | 77   | 320508   | 48.092  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96   | 212257   | 47.786  | ug/l  | 99     |
| 28) Bromochloromethane        | 7.17 | 49   | 188182   | 50.638  | ug/l  | 98     |
| 29) Tetrahydrofuran           | 7.19 | 42   | 453273   | 260.829 | ug/l  | 100    |
| 30) Chloroform                | 7.36 | 83   | 410632   | 48.561  | ug/l  | 99     |
| 31) Cyclohexane               | 7.64 | 56   | 234043   | 45.892  | ug/l  | 100    |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97   | 317947   | 49.391  | ug/l  | 99     |
| 36) 1,1-Dichloropropene       | 7.78 | 75   | 234950   | 43.622  | ug/l  | 99     |
| 37) Ethyl Acetate             | 6.91 | 43   | 288441   | 51.604  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 7.76 | 117  | 249519   | 46.086  | ug/l  | 98     |

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 MSVOA\_N  
 ClientSampleId :

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| -----                          |       |      |          |          |        |          |
| 39) Methylcyclohexane          | 9.07  | 83   | 235670   | 45.262   | ug/l   | 97       |
| 40) Benzene                    | 8.03  | 78   | 751835   | 45.702   | ug/l   | 100      |
| 41) Methacrylonitrile          | 7.15  | 41   | 146641   | 52.039   | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.11  | 62   | 331387   | 48.007   | ug/l   | 99       |
| 43) Isopropyl Acetate          | 8.15  | 43   | 535257   | 51.275   | ug/l   | 99       |
| 44) Trichloroethene            | 8.82  | 130  | 184112   | 45.734   | ug/l   | 98       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 239340   | 48.717   | ug/l   | 99       |
| 46) Dibromomethane             | 9.20  | 93   | 144294   | 48.309   | ug/l   | 98       |
| 47) Bromodichloromethane       | 9.39  | 83   | 322570   | 51.549   | ug/l   | 98       |
| 48) Methyl methacrylate        | 9.19  | 41   | 247433   | 52.204   | ug/l   | 100      |
| 49) 1,4-Dioxane                | 9.19  | 88   | 91684    | 1178.187 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 1644988  | 296.675  | ug/l   | 99       |
| 52) Toluene                    | 10.15 | 92   | 479330   | 46.492   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 337470   | 52.648   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 356649   | 50.396   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 233158   | 50.960   | ug/l   | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 348674   | 52.819   | ug/l   | 100      |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 391281   | 49.747   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 844053   | 268.431  | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 1197101  | 290.698  | ug/l   | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 234757   | 53.334   | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 214583   | 50.608   | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 143442   | 43.672   | ug/l   | 97       |
| 65) Chlorobenzene              | 11.43 | 112  | 568164   | 47.941   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 226522   | 52.712   | ug/l   | 98       |
| 67) Ethyl Benzene              | 11.51 | 91   | 1010732  | 49.772   | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 736709   | 96.323   | ug/l   | 97       |
| 69) o-Xylene                   | 11.95 | 106  | 369059   | 49.074   | ug/l   | 99       |
| 70) Styrene                    | 11.97 | 104  | 657779   | 50.764   | ug/l   | 99       |
| 71) Bromoform                  | 12.13 | 173  | 153119   | 48.199   | ug/l # | 100      |
| 73) Isopropylbenzene           | 12.25 | 105  | 1063945  | 50.179   | ug/l   | 99       |
| 74) N-amyl acetate             | 12.07 | 43   | 482126   | 54.355   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 367939   | 51.820   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 445879   | 73.549   | ug/l # | 100      |
| 77) Bromobenzene               | 12.53 | 156  | 248389   | 46.572   | ug/l   | 97       |
| 78) n-propylbenzene            | 12.60 | 91   | 1249181  | 51.846   | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 751786   | 49.926   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 918708   | 51.240   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 98883    | 48.714   | ug/l   | 98       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 783662   | 49.510   | ug/l   | 99       |
| 83) tert-Butylbenzene          | 13.00 | 119  | 805942   | 50.405   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene     | 13.05 | 105  | 938985   | 52.626   | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.18 | 105  | 1108830  | 53.032   | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.30 | 119  | 990136   | 53.267   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 477116   | 48.978   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.37 | 146  | 481187   | 48.384   | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.62 | 91   | 922282   | 52.334   | ug/l   | 100      |
| 90) Hexachloroethane           | 13.88 | 117  | 158067   | 48.579   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 488721   | 50.014   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 70876    | 55.446   | ug/l   | 97       |

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Sample : VSTDCCC050  
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ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration

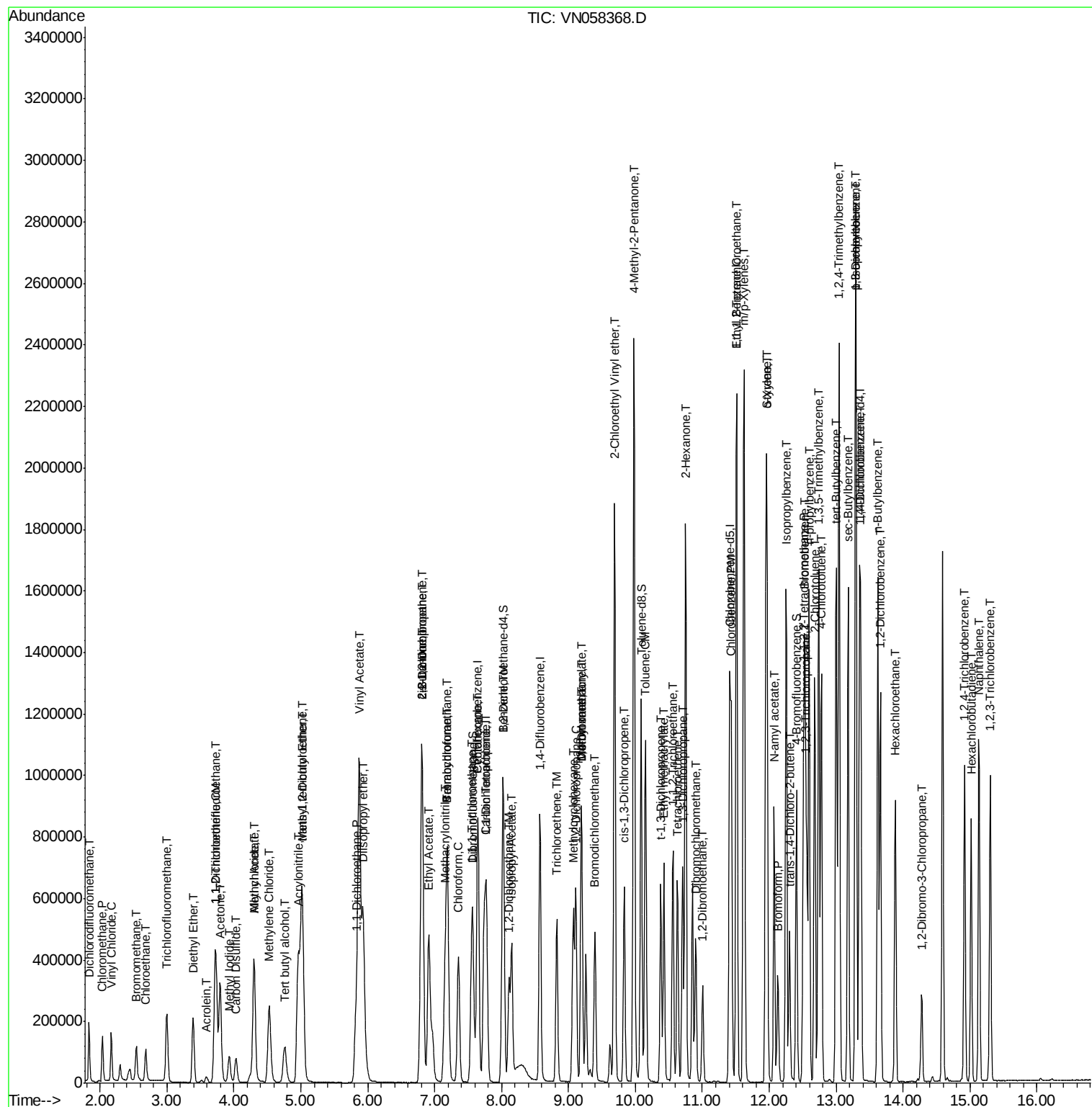
| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 14.92 | 180  | 308187   | 49.362 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 15.02 | 225  | 150054   | 49.726 | ug/l  | 96       |
| 95) Naphthalene            | 15.14 | 128  | 876726   | 54.185 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 293482   | 49.734 | ug/l  | 99       |

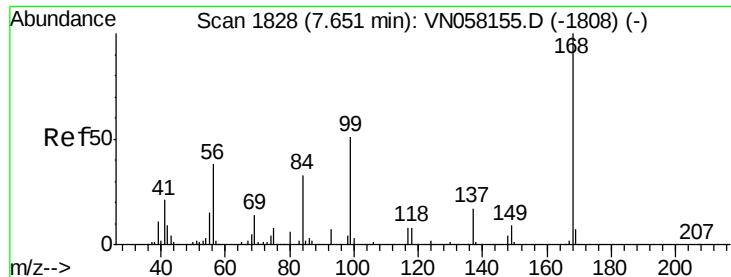
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

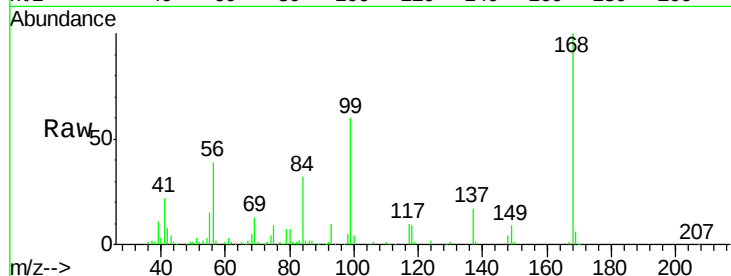
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 438017

Ion Ratio Lower Upper

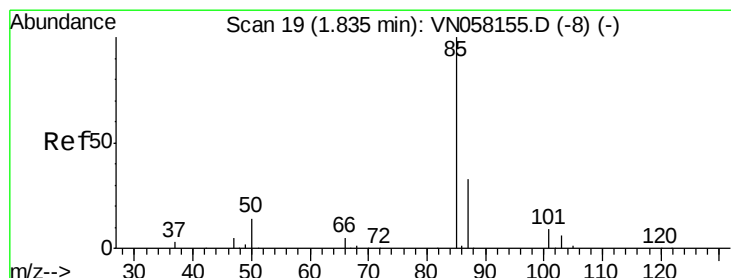
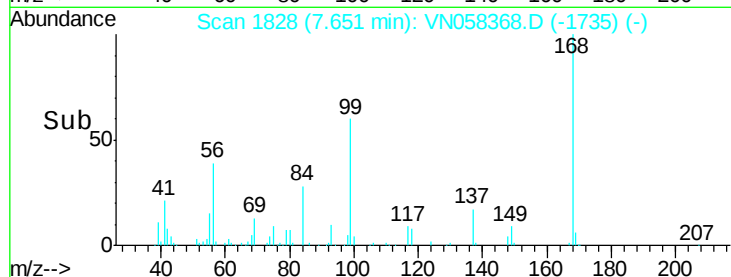
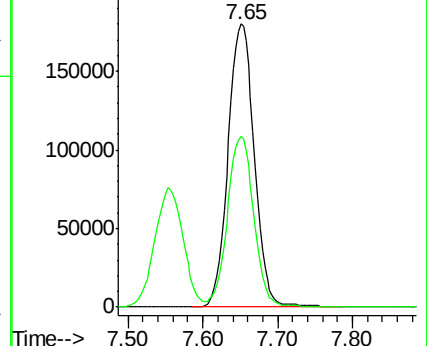
168 100

99 60.1 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 39.835 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058368.D

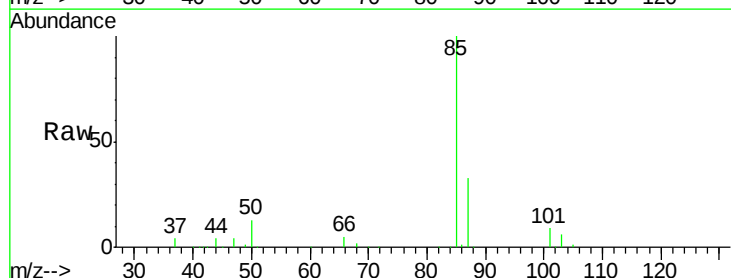
Acq: 25 Sep 2019 15:33

Tgt Ion: 85 Resp: 143335

Ion Ratio Lower Upper

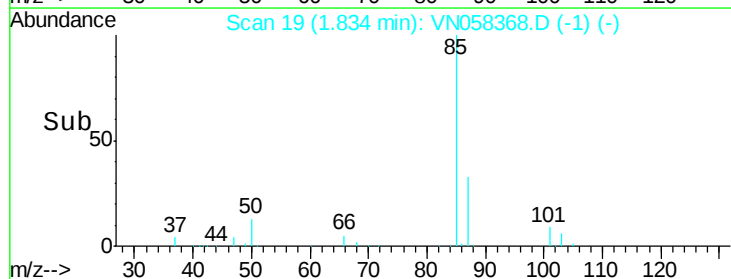
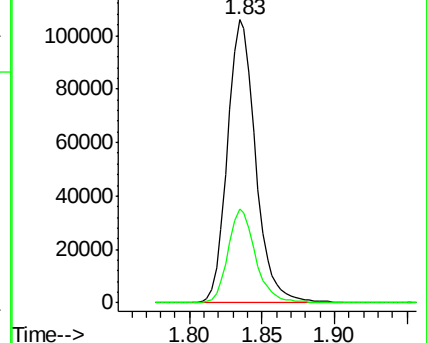
85 100

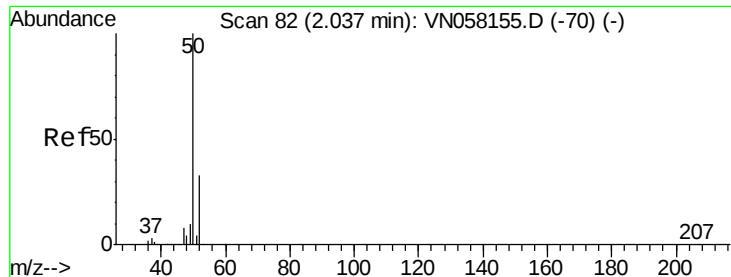
87 33.1 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 46.794 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

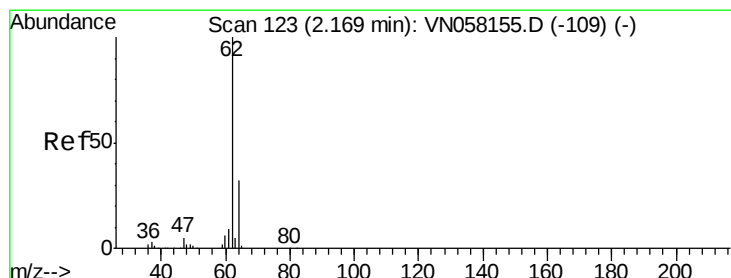
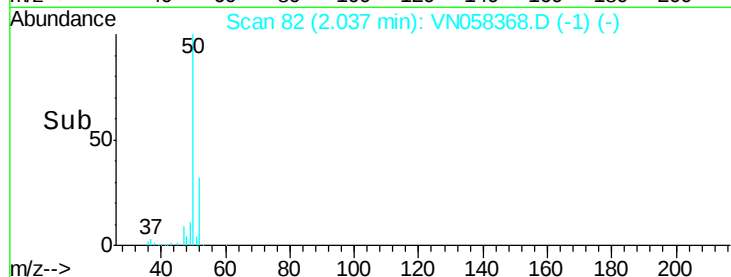
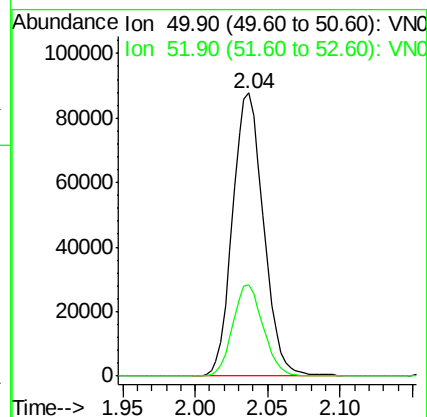
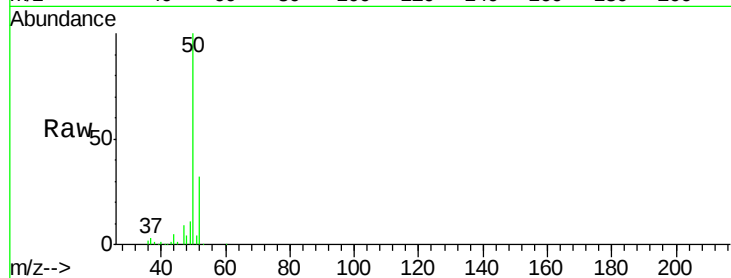
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 50 Resp: 129969

Ion Ratio Lower Upper

50 100

52 32.3 26.3 39.5



#4

Vinyl Chloride

Concen: 45.561 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058368.D

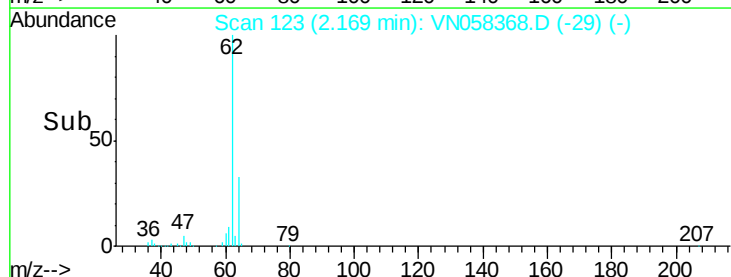
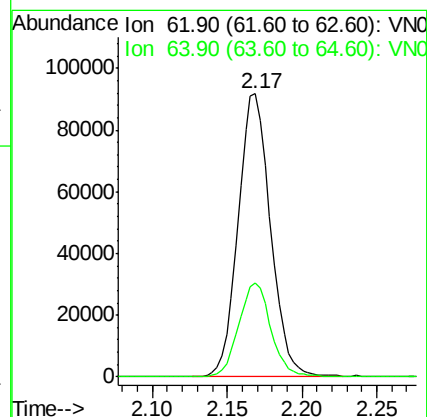
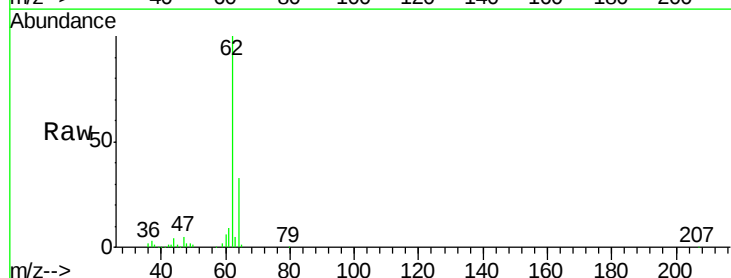
Acq: 25 Sep 2019 15:33

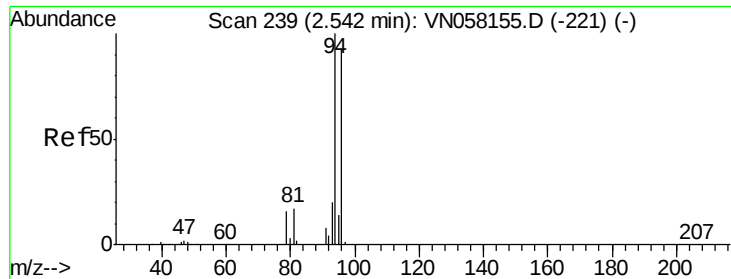
Tgt Ion: 62 Resp: 138428

Ion Ratio Lower Upper

62 100

64 33.1 25.4 38.2





#5

Bromomethane

Concen: 45.913 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

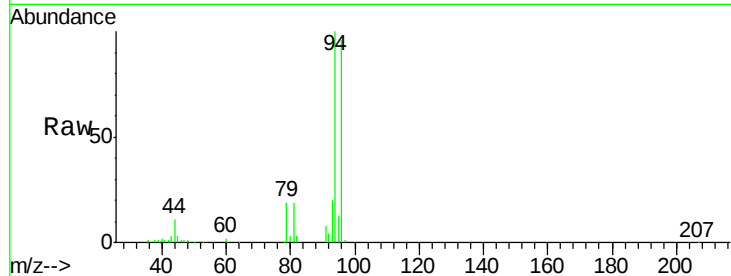
ClientSampled :

Tot Ion: 94 Resp: 73617

Ion Ratio Lower Upper

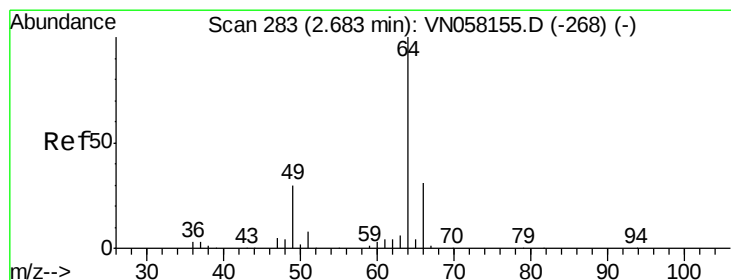
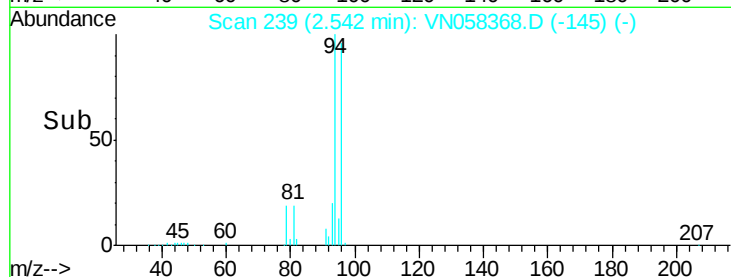
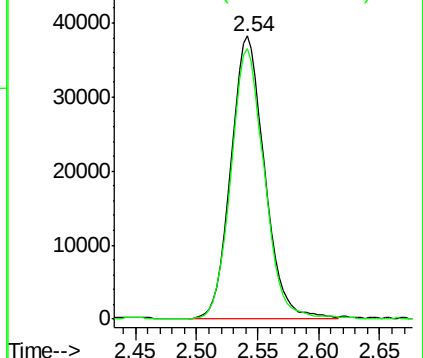
94 100

96 95.8 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 49.027 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN058368.D

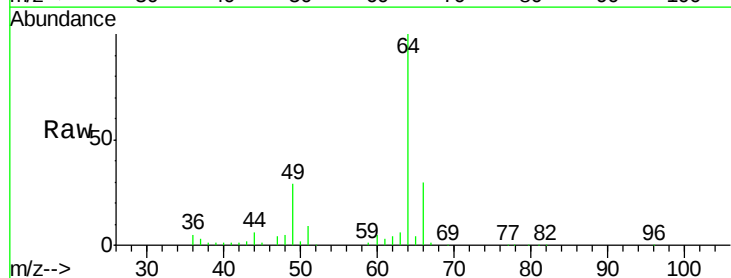
Acq: 25 Sep 2019 15:33

Tgt Ion: 64 Resp: 95316

Ion Ratio Lower Upper

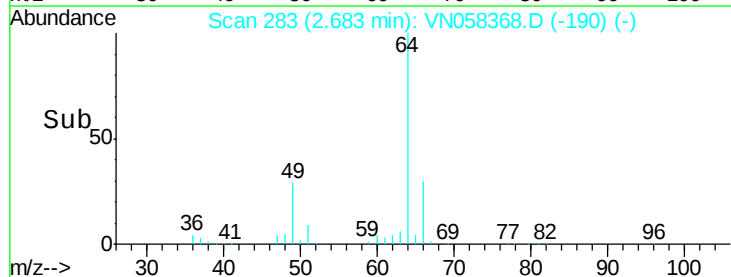
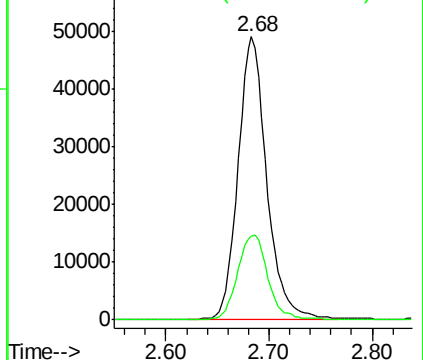
64 100

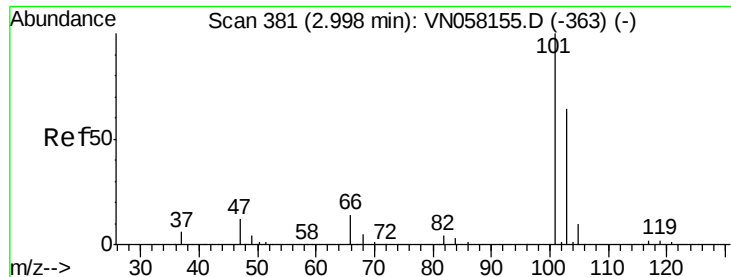
66 29.8 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



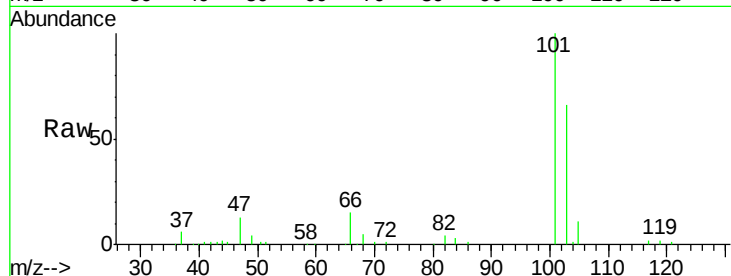


#7

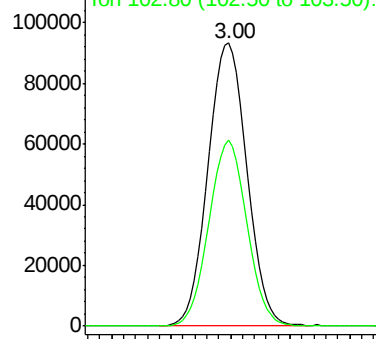
Trichlorofluoromethane  
 Concen: 43.175 ug/l  
 RT: 3.00 min Scan# 381  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Instrument :  
 MSVOA\_N  
 ClientSampled :

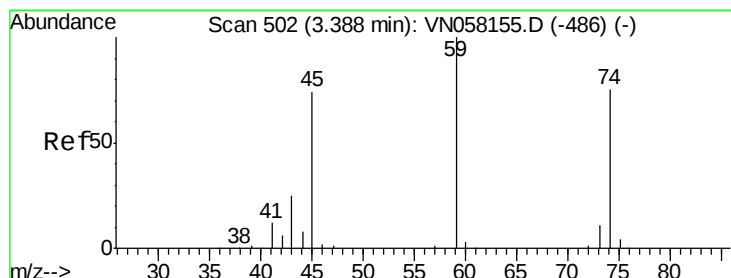
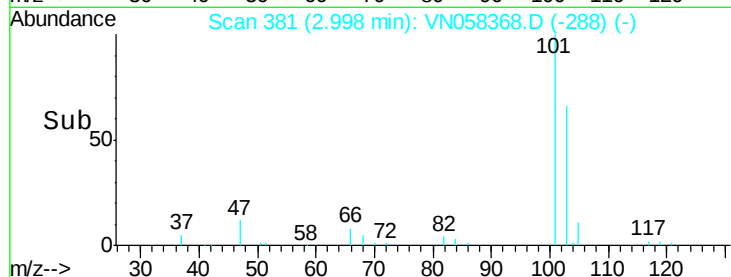
Tot Ion:101 Resp: 212046  
 Ion Ratio Lower Upper  
 101 100  
 103 65.5 51.0 76.6



Abundance Ion 100.90 (100.60 to 101.60): V  
 Ion 102.80 (102.50 to 103.50): V



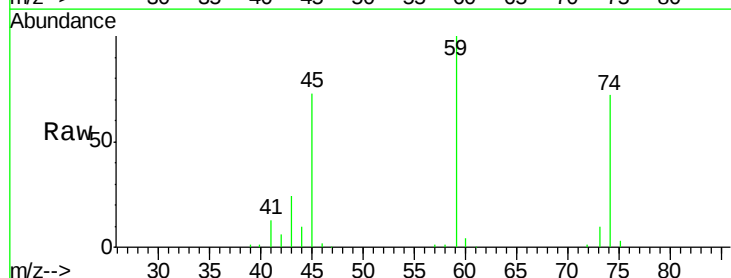
Time-->



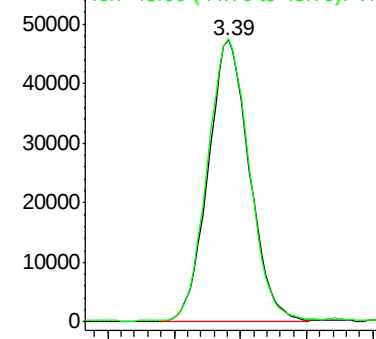
#8

Diethyl Ether  
 Concen: 45.587 ug/l  
 RT: 3.39 min Scan# 503  
 Delta R.T. 0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

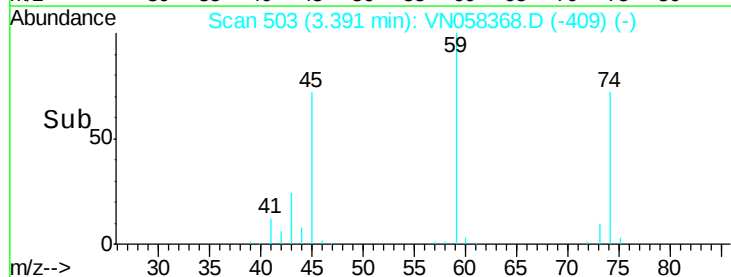
Tgt Ion: 74 Resp: 102589  
 Ion Ratio Lower Upper  
 74 100  
 45 100.5 48.5 145.5



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



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.050 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampled :

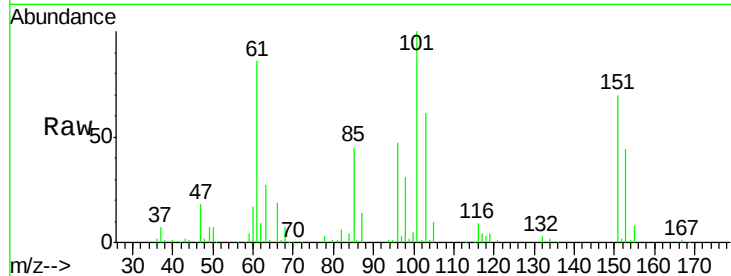
Tot Ion:101 Resp: 163065

Ion Ratio Lower Upper

101 100

85 46.3 37.3 55.9

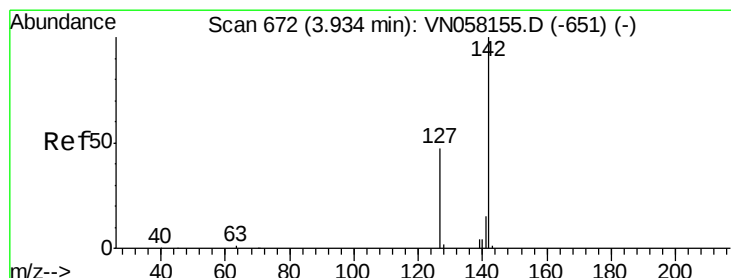
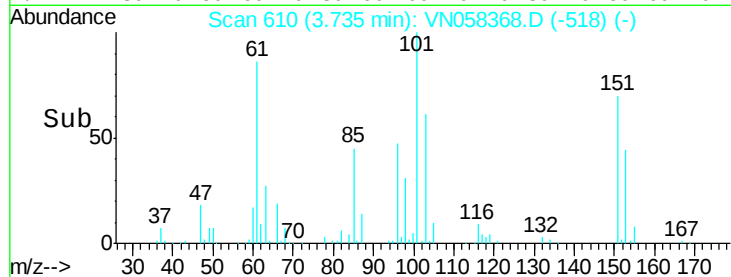
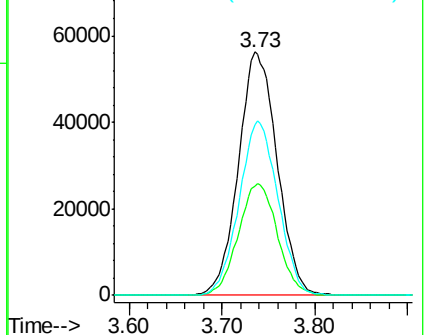
151 71.7 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 44.477 ug/l

RT: 3.93 min Scan# 671

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

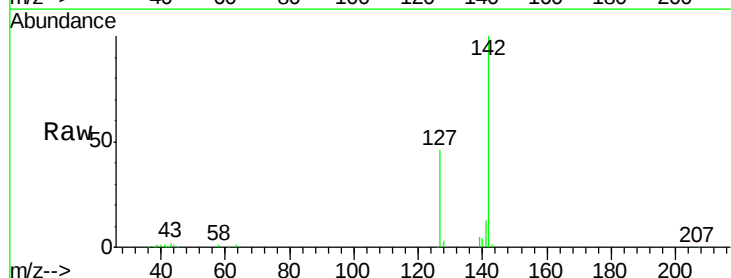
Tgt Ion:142 Resp: 131972

Ion Ratio Lower Upper

142 100

127 46.9 37.5 56.3

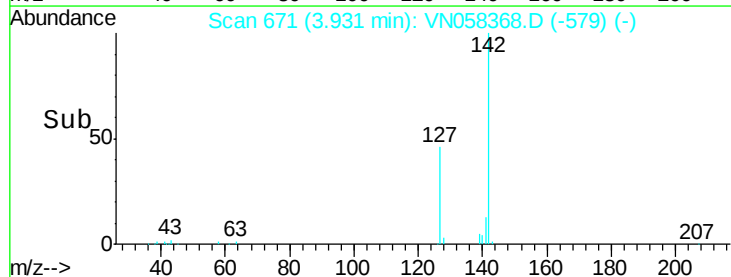
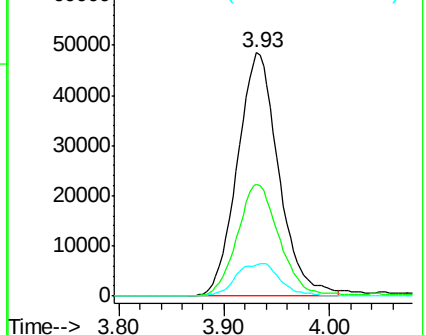
141 14.4 11.4 17.2

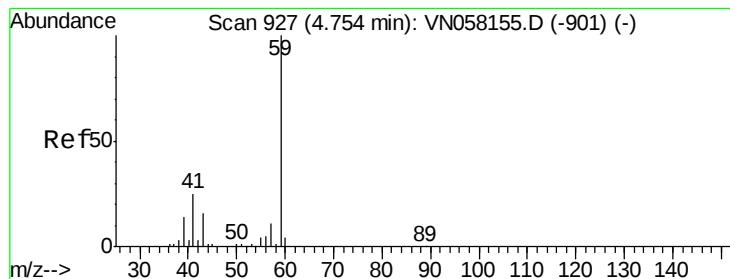


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



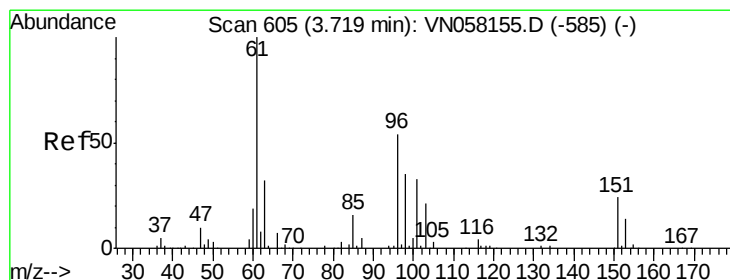
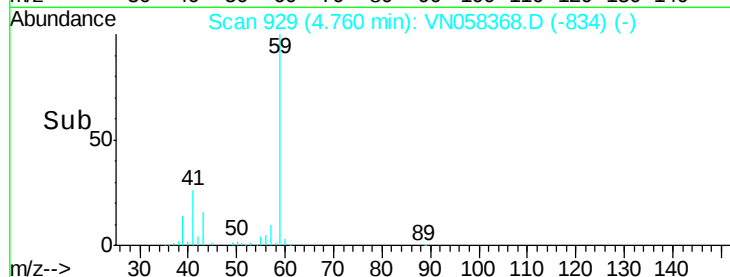
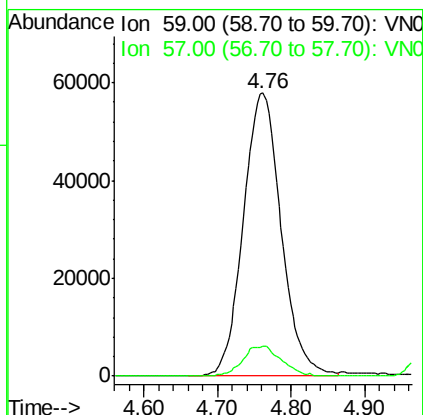
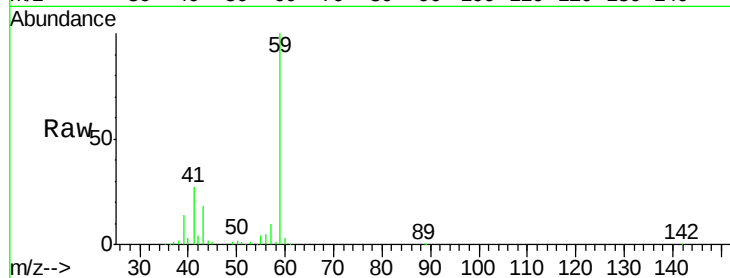


#11

Tert butyl alcohol  
 Concen: 285.420 ug/l  
 RT: 4.76 min Scan# 929  
 Delta R.T. 0.01 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Instrument :  
 MSVOA\_N  
 ClientSampled :

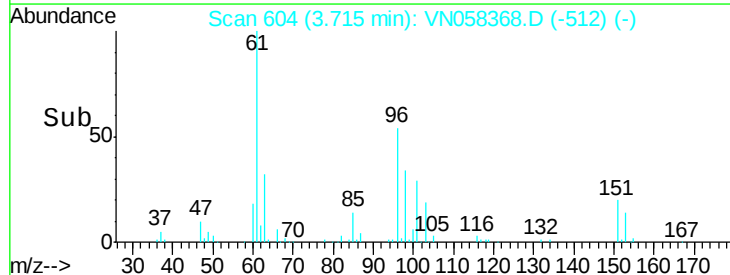
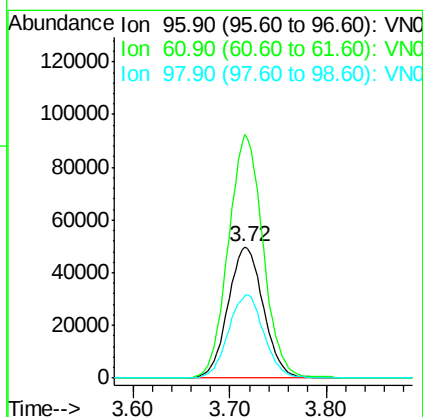
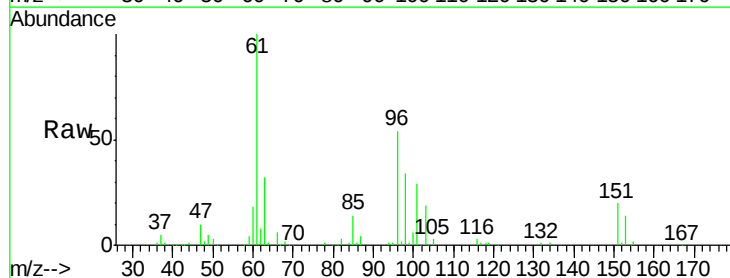
Tot Ion: 59 Resp: 207128  
 Ion Ratio Lower Upper  
 59 100  
 57 10.7 8.6 13.0

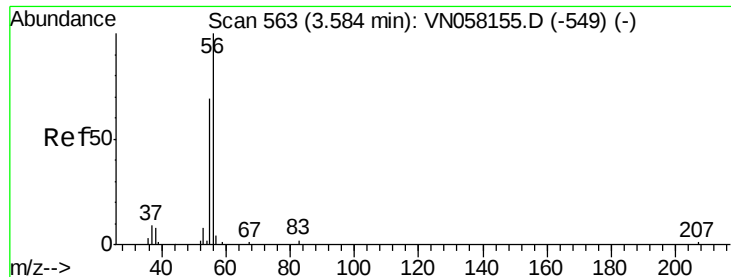


#12

1,1-Dichloroethene  
 Concen: 46.911 ug/l  
 RT: 3.72 min Scan# 604  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Tgt Ion: 96 Resp: 126122  
 Ion Ratio Lower Upper  
 96 100  
 61 185.9 149.5 224.3  
 98 62.8 52.4 78.6





#13

Acrolein

Concen: 190.087 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

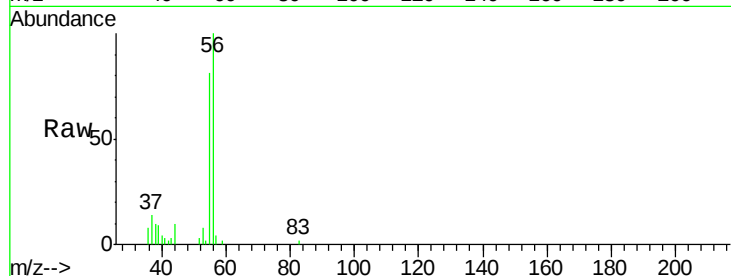
ClientSampleId :

Tot Ion: 56 Resp: 20443

Ion Ratio Lower Upper

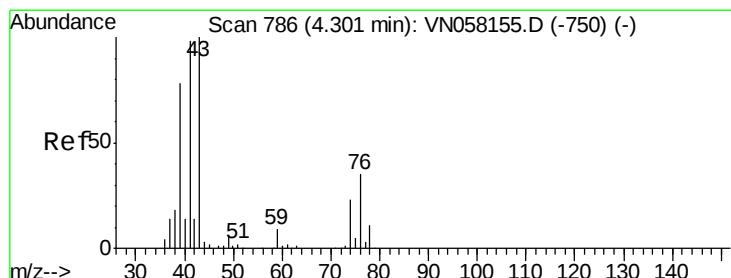
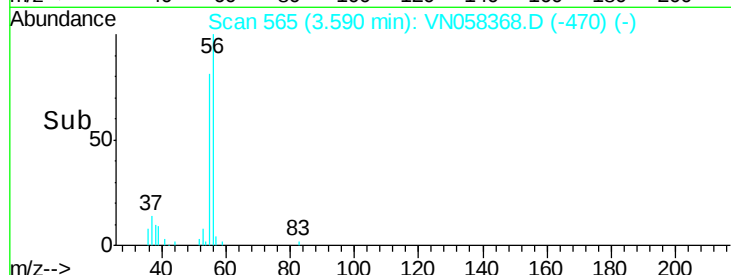
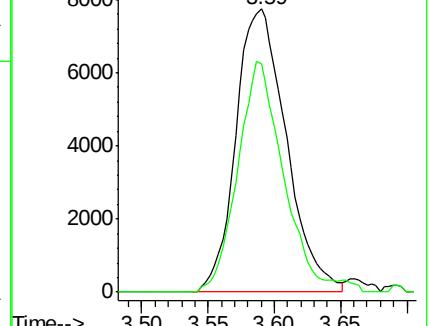
56 100

55 74.7 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 46.814 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

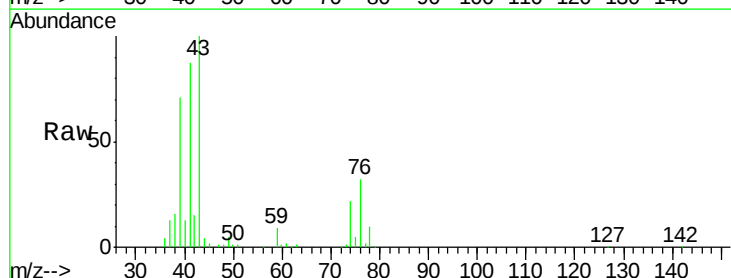
Tgt Ion: 41 Resp: 271256

Ion Ratio Lower Upper

41 100

39 74.2 59.1 88.7

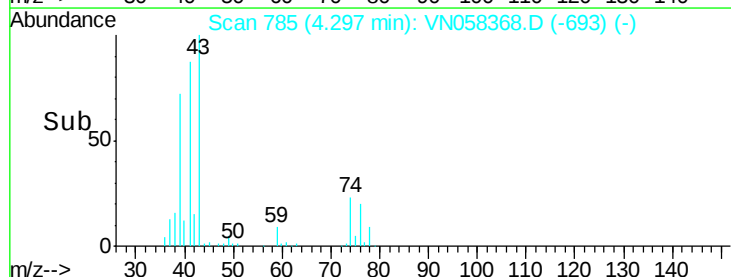
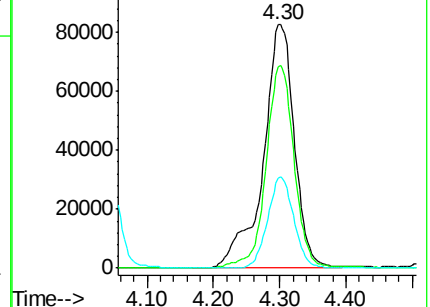
76 31.2 25.1 37.7

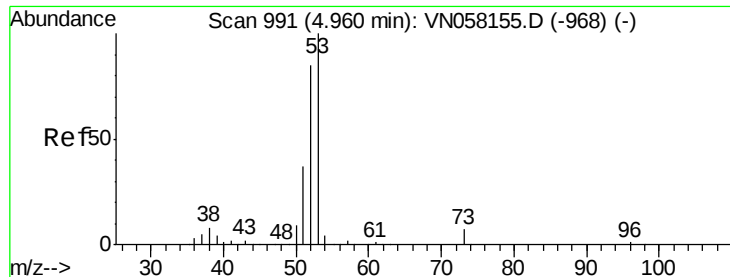


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 272.294 ug/l

RT: 4.96 min Scan# 991

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :  
MSVOA\_N  
ClientSampled :

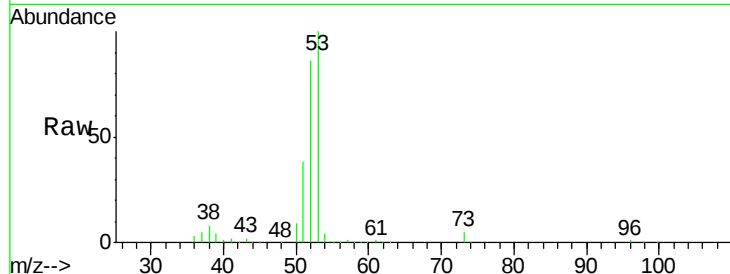
Tot Ion: 53 Resp: 526469

Ion Ratio Lower Upper

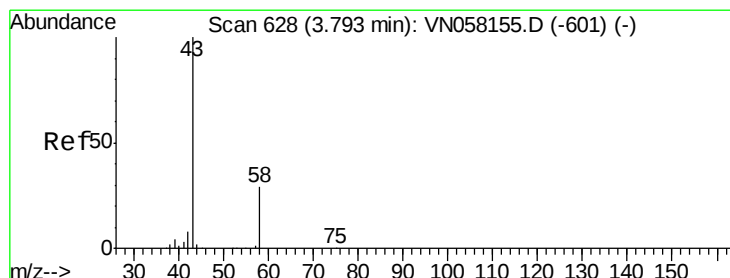
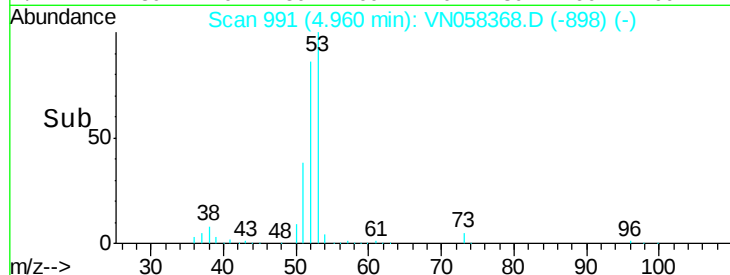
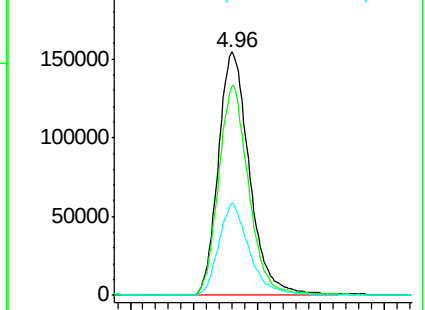
53 100

52 82.3 66.6 100.0

51 37.1 29.7 44.5



Abundance Ion 53.00 (52.70 to 53.70): VN0  
Ion 52.00 (51.70 to 52.70): VN0  
Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 257.564 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058368.D

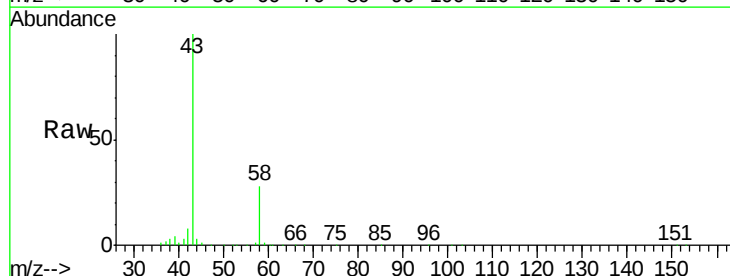
Acq: 25 Sep 2019 15:33

Tgt Ion: 43 Resp: 533370

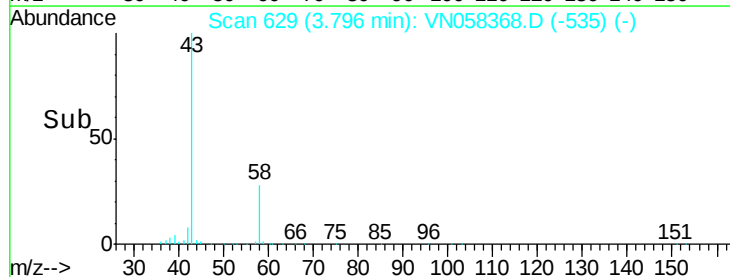
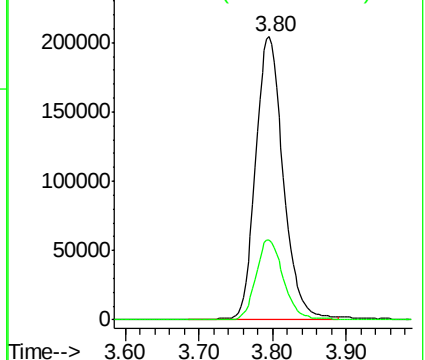
Ion Ratio Lower Upper

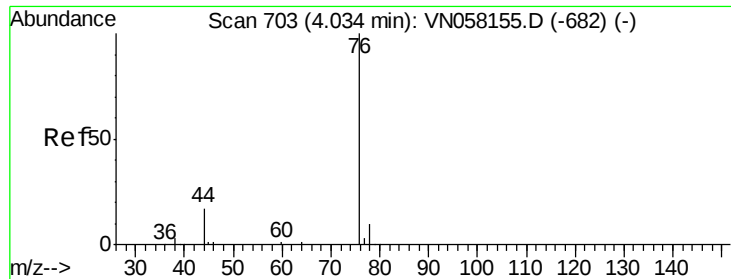
43 100

58 28.4 23.4 35.2



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

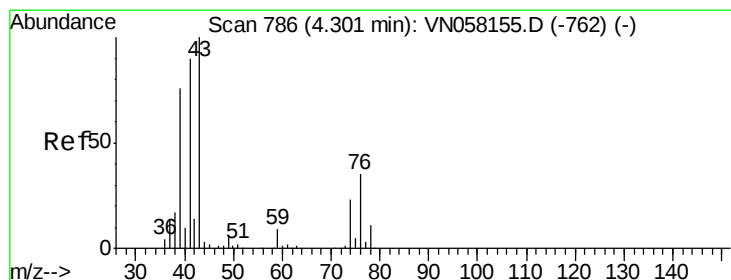
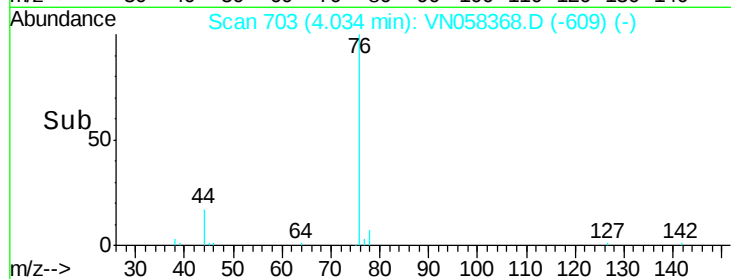
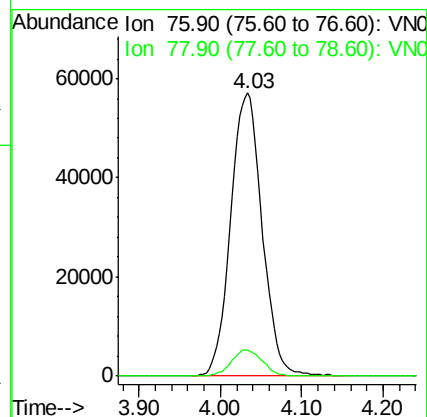
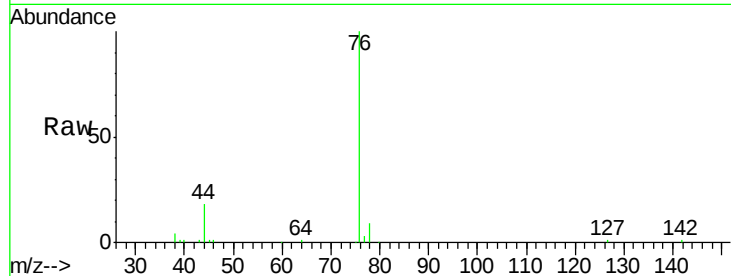




#17  
Carbon Disulfide  
Concen: 40.865 ug/l  
RT: 4.03 min Scan# 703  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

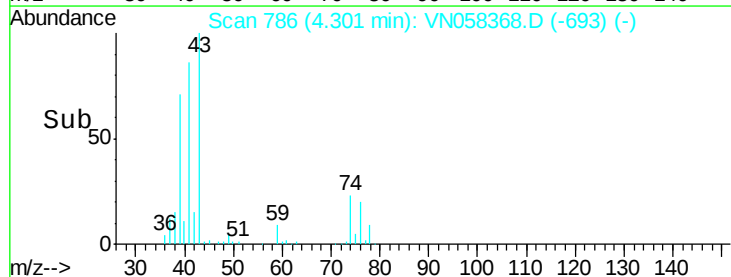
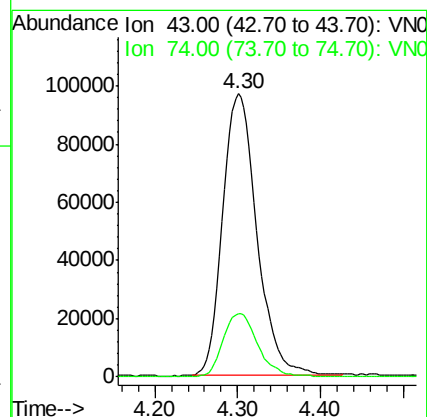
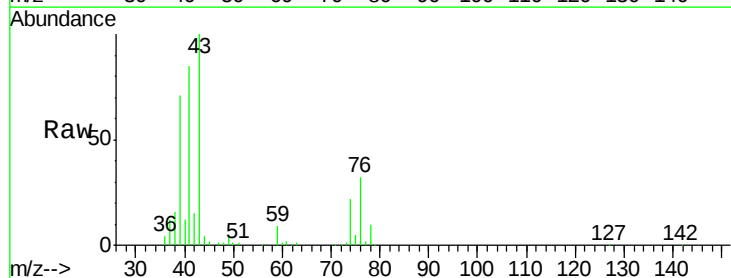
Instrument :  
MSVOA\_N  
ClientSampleId :

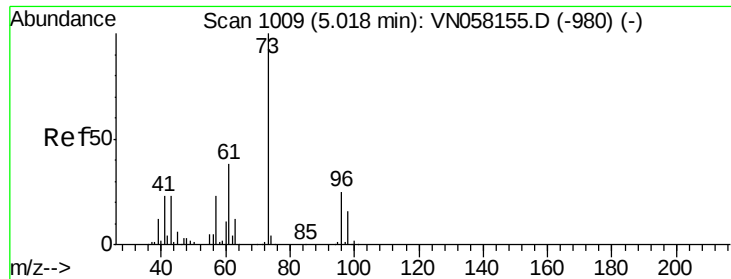
Tot Ion: 76 Resp: 154385  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.7 11.5



#18  
Methyl Acetate  
Concen: 51.070 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 43 Resp: 278283  
Ion Ratio Lower Upper  
43 100  
74 23.0 18.0 27.0

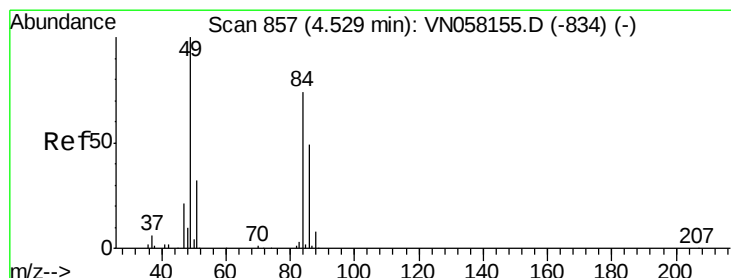
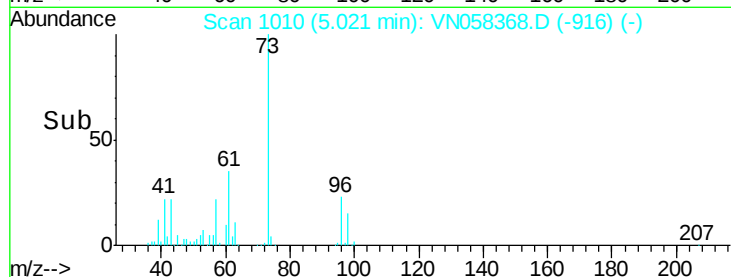
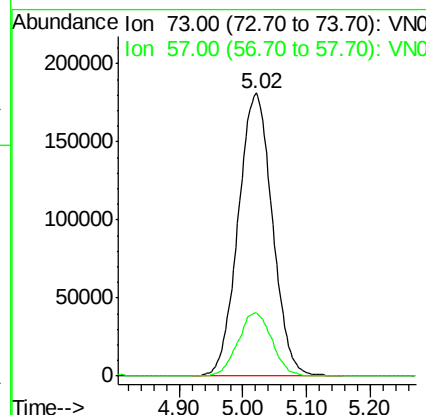
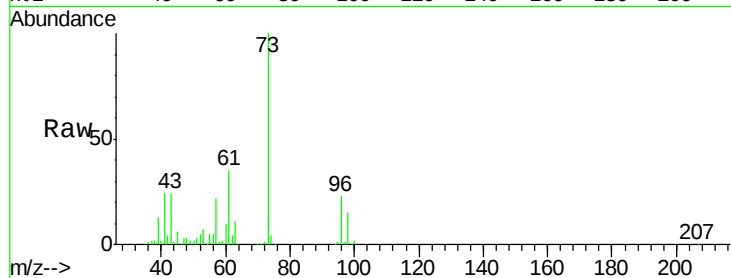




#19  
Methvl tert-butvl Ether  
Concen: 50.584 ug/l  
RT: 5.02 min Scan# 1010  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

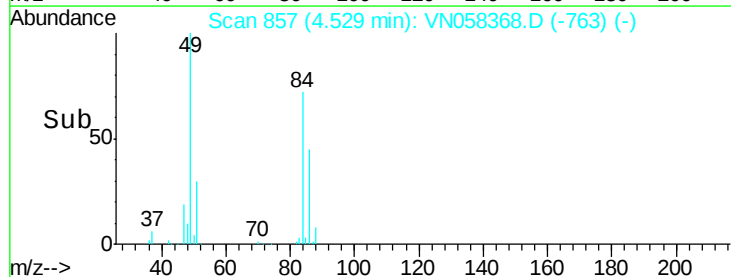
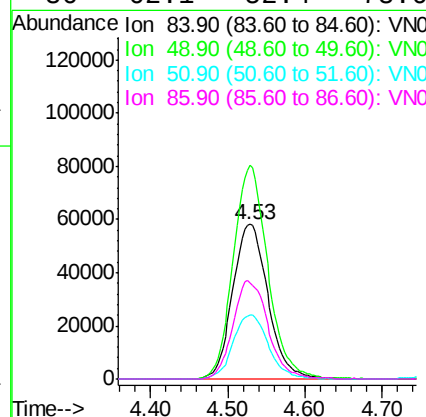
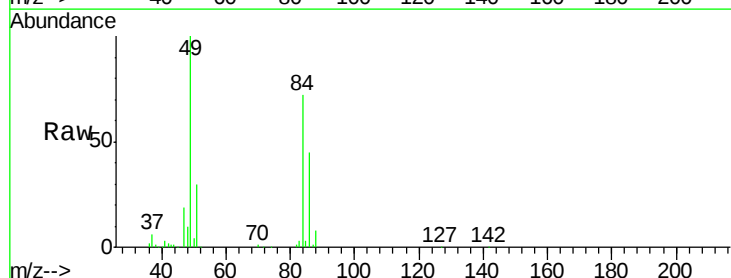
Instrument :  
MSVOA\_N  
ClientSampled :

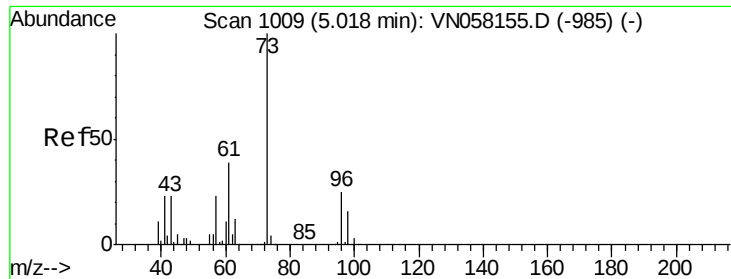
Tot Ion: 73 Resp: 675586  
Ion Ratio Lower Upper  
73 100  
57 22.2 18.1 27.1



#20  
Methylene Chloride  
Concen: 50.910 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 84 Resp: 184565  
Ion Ratio Lower Upper  
84 100  
49 138.4 107.5 161.3  
51 41.6 33.9 50.9  
86 62.1 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 47.359 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampled :

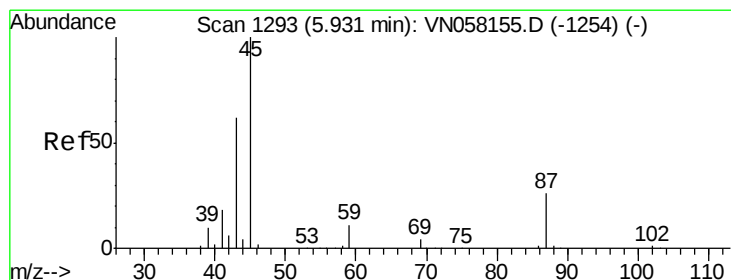
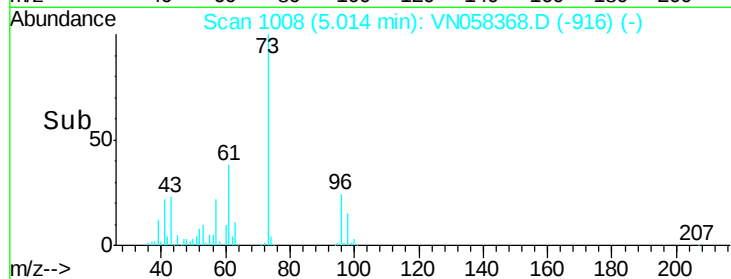
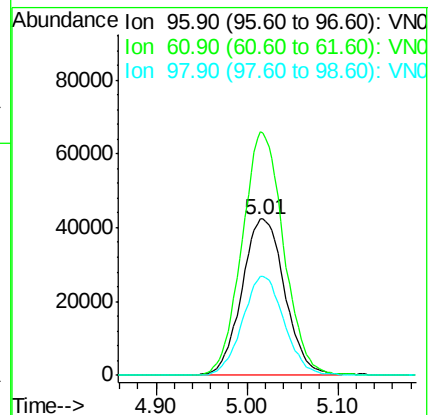
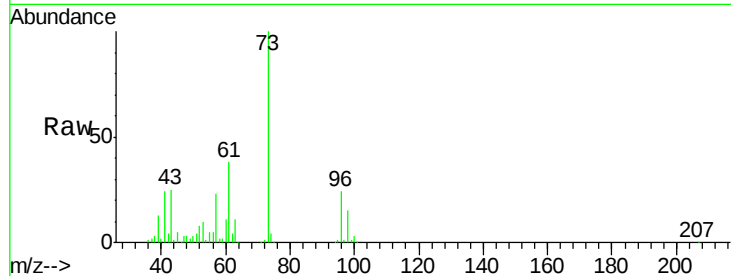
Tot Ion: 96 Resp: 138741

Ion Ratio Lower Upper

96 100

61 155.6 122.2 183.4

98 62.9 49.9 74.9



#22

Diisopropyl ether

Concen: 50.298 ug/l

RT: 5.93 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Tgt Ion: 45 Resp: 740329

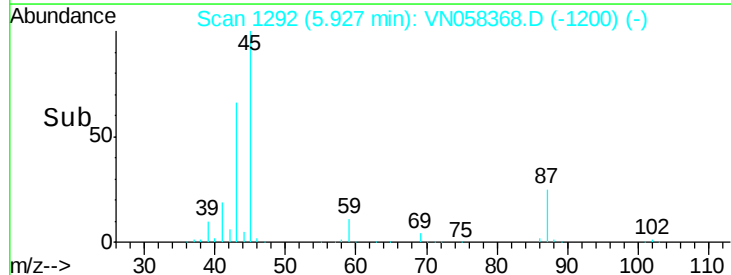
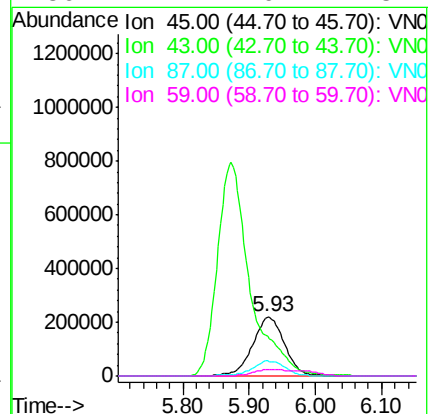
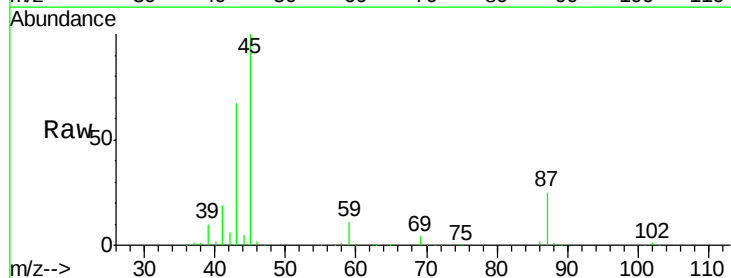
Ion Ratio Lower Upper

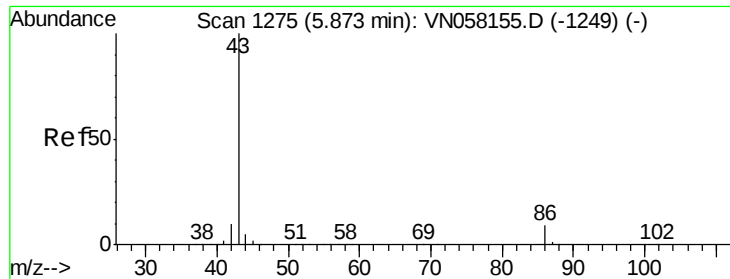
45 100

43 64.9 49.7 74.5

87 25.0 20.7 31.1

59 11.2 9.1 13.7

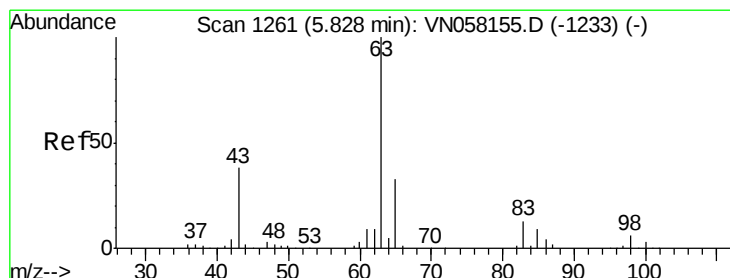
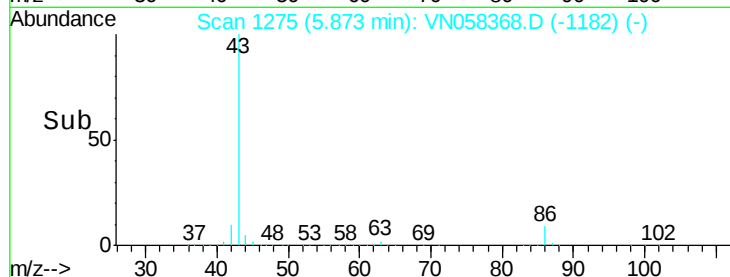
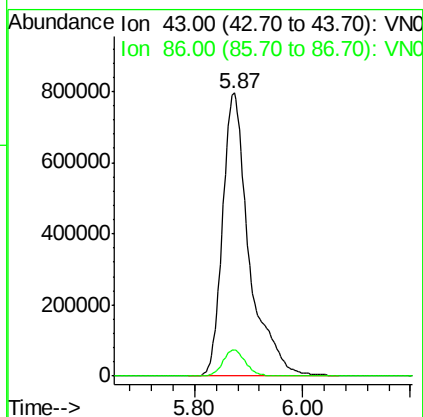
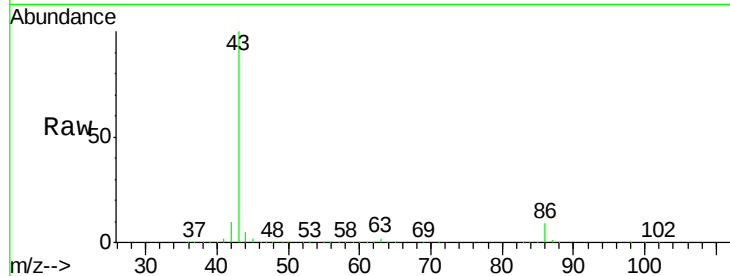




#23  
 Vinyl Acetate  
 Concen: 270.035 ug/l  
 RT: 5.87 min Scan# 1275  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

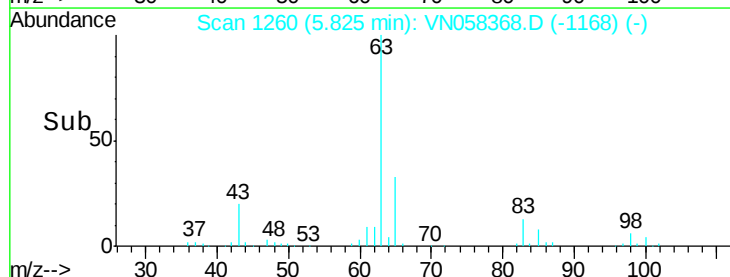
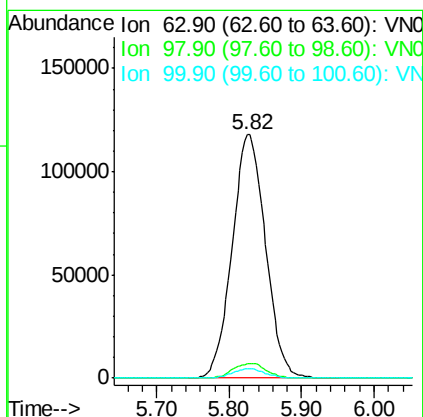
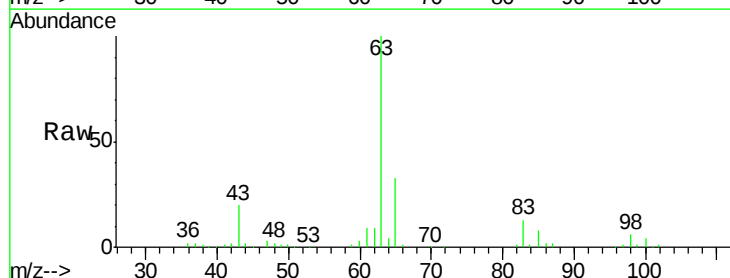
Instrument :  
 MSVOA\_N  
 ClientSampled :

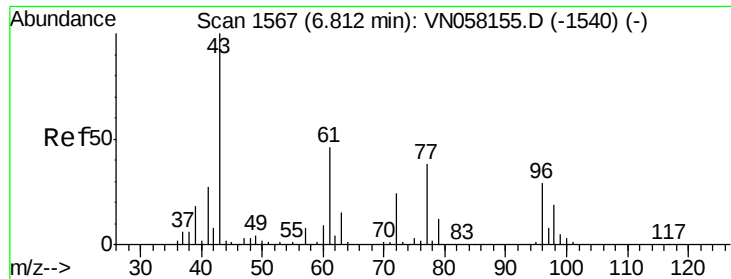
Tot Ion: 43 Resp: 2719641  
 Ion Ratio Lower Upper  
 43 100  
 86 9.3 7.4 11.2



#24  
 1,1-Dichloroethane  
 Concen: 47.997 ug/l  
 RT: 5.82 min Scan# 1260  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Tgt Ion: 63 Resp: 377050  
 Ion Ratio Lower Upper  
 63 100  
 98 5.8 2.9 8.6  
 100 3.7 1.8 5.3





#25

2-Butanone

Concen: 271.949 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

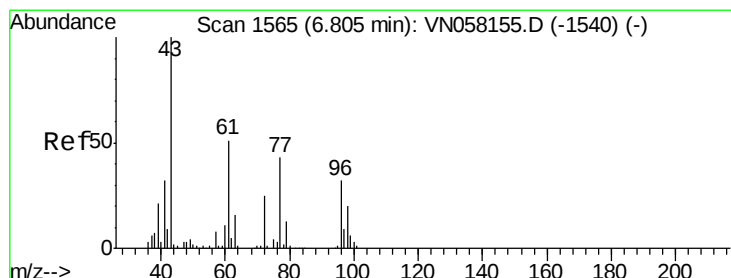
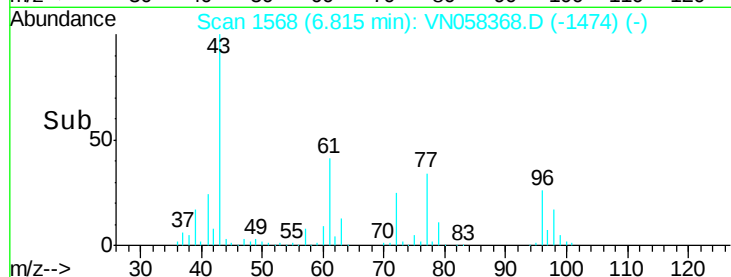
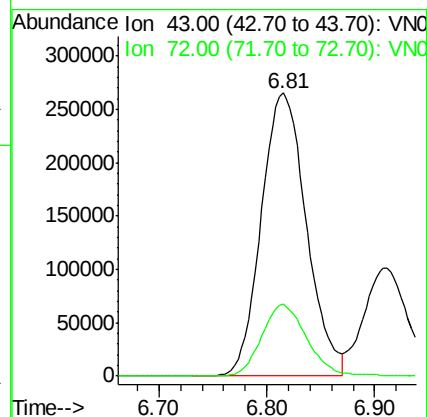
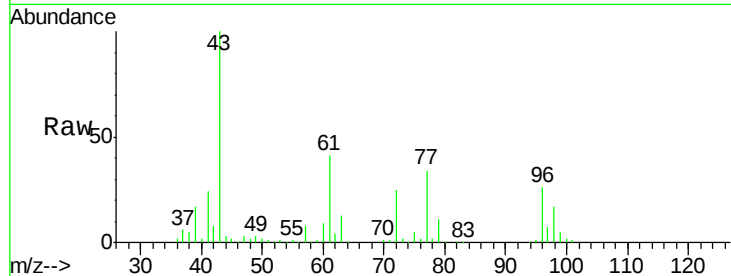
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 43 Resp: 767237

Ion Ratio Lower Upper

43 100

72 25.4 19.5 29.3



#26

2,2-Dichloropropane

Concen: 48.092 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VN058368.D

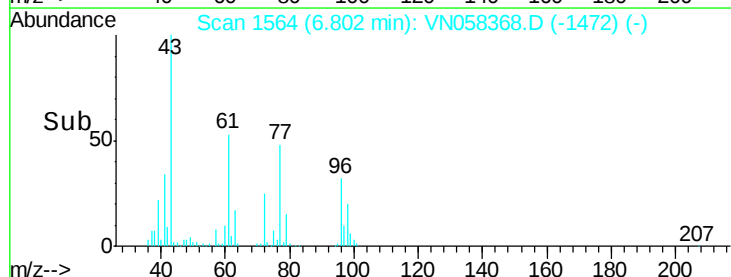
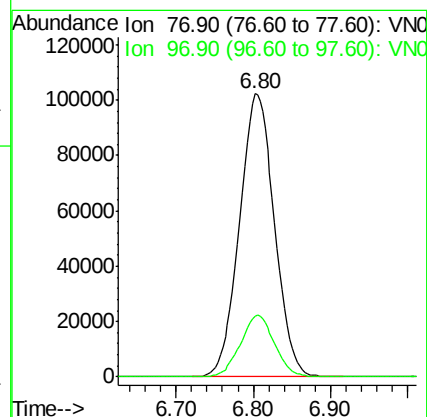
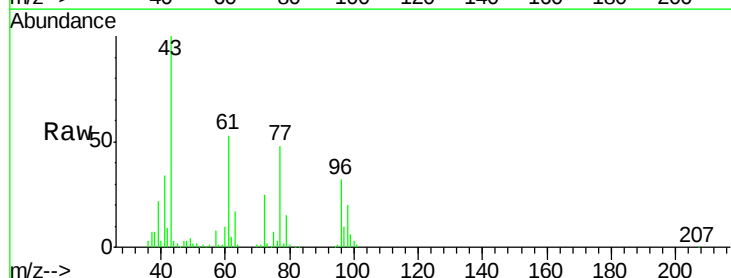
Acq: 25 Sep 2019 15:33

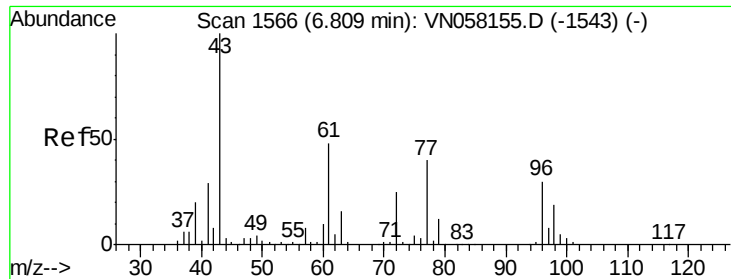
Tgt Ion: 77 Resp: 320508

Ion Ratio Lower Upper

77 100

97 21.3 10.5 31.6





#27

cis-1,2-Dichloroethene

Concen: 47.786 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

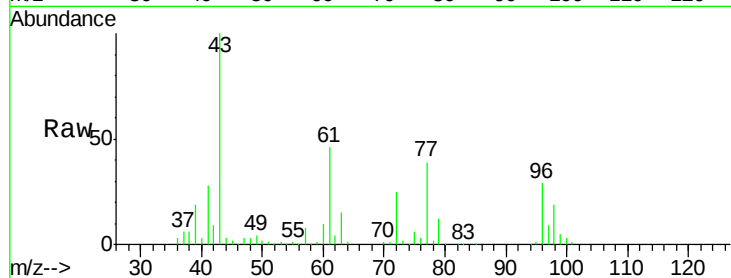
Tot Ion: 96 Resp: 212257

Ion Ratio Lower Upper

96 100

61 161.2 0.0 319.0

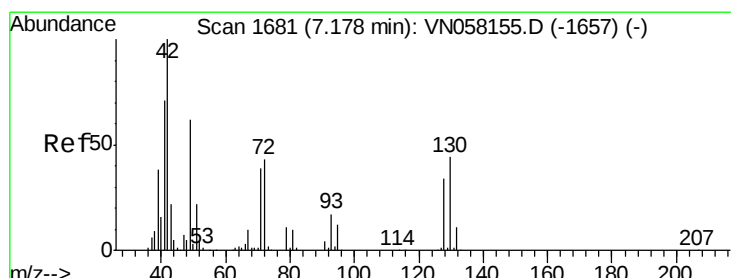
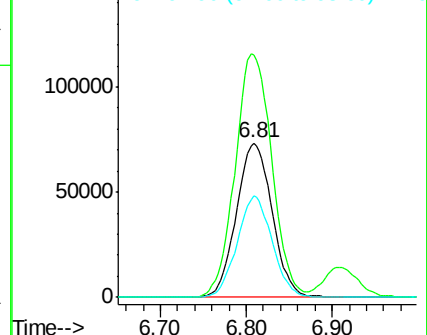
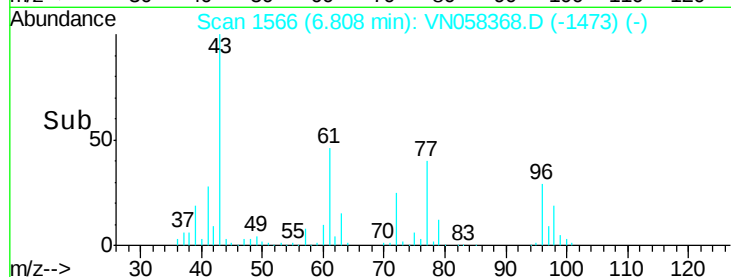
98 64.2 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 50.638 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

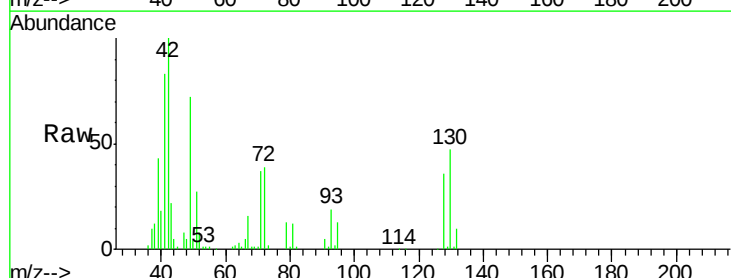
Tgt Ion: 49 Resp: 188182

Ion Ratio Lower Upper

49 100

129 1.7 0.0 1.8

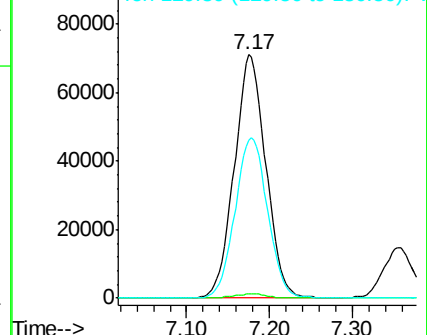
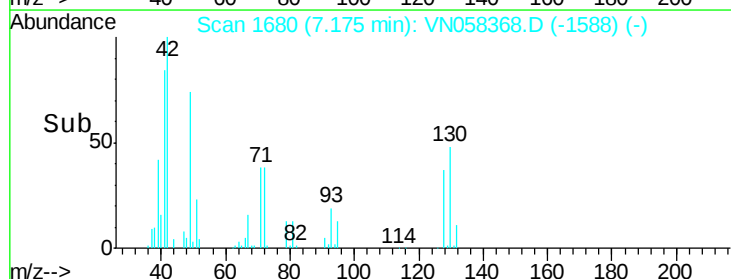
130 67.9 55.4 83.2

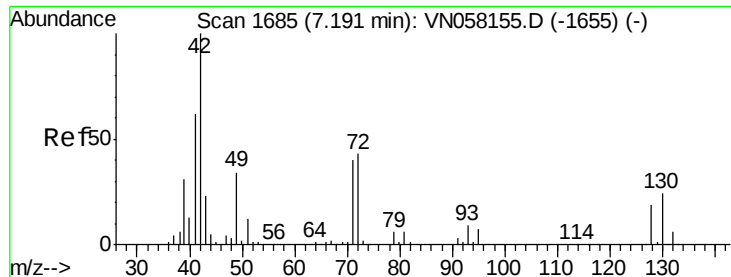


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

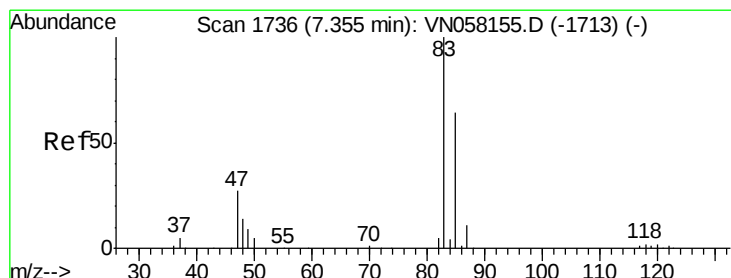
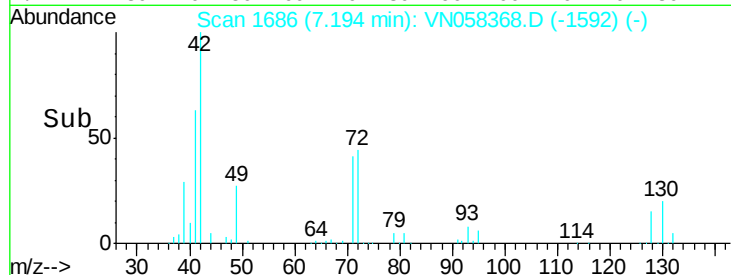
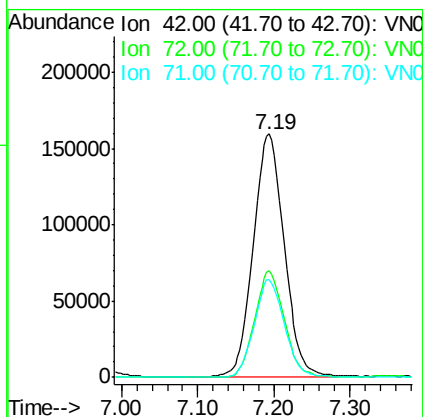
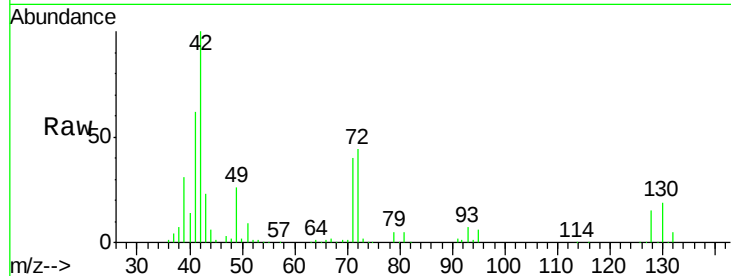




#29  
Tetrahydrofuran  
Concen: 260.829 ug/l  
RT: 7.19 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

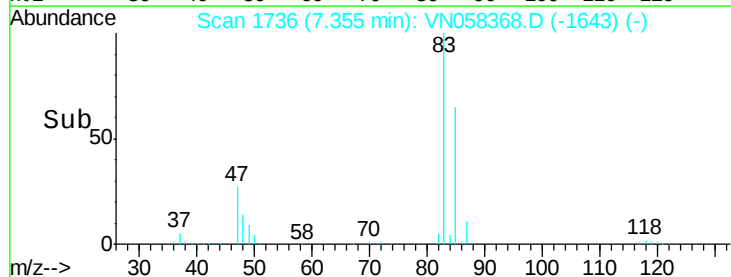
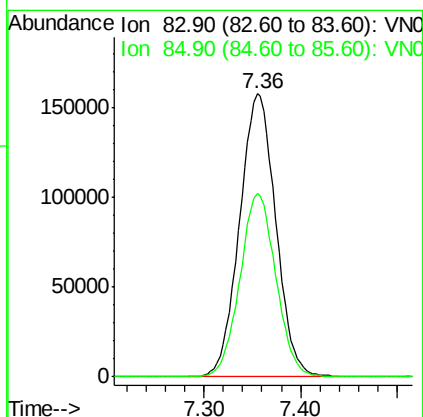
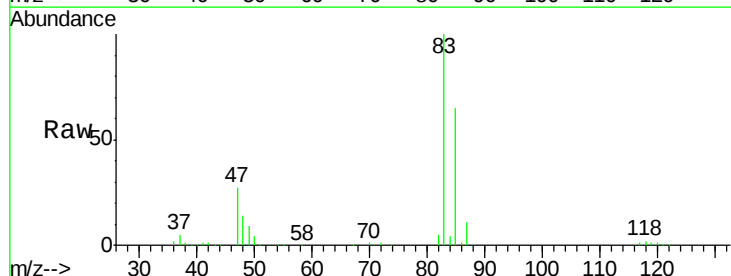
Instrument :  
MSVOA\_N  
ClientSampled :

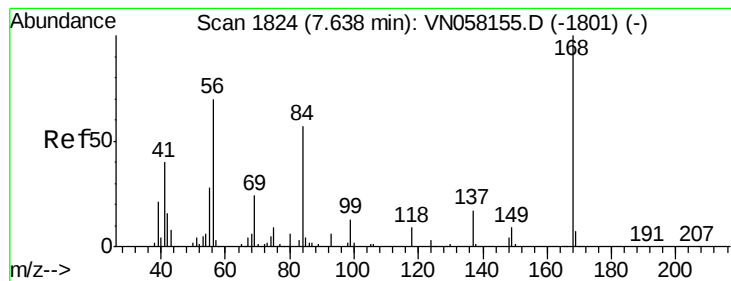
Tot Ion: 42 Resp: 453273  
Ion Ratio Lower Upper  
42 100  
72 41.7 33.8 50.6  
71 39.1 31.4 47.0



#30  
Chloroform  
Concen: 48.561 ug/l  
RT: 7.36 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 83 Resp: 410632  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.4 77.2





#31

Cyclohexane

Concen: 45.892 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :  
MSVOA\_N  
ClientSampleId :

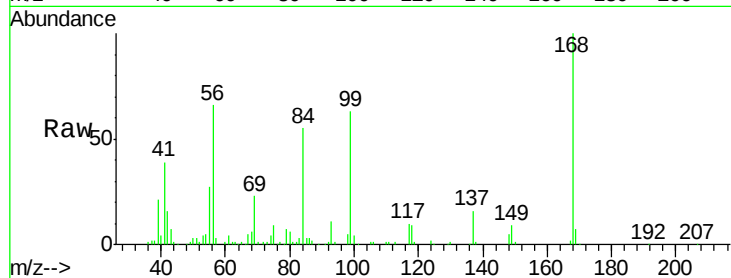
Tot Ion: 56 Resp: 234043

Ion Ratio Lower Upper

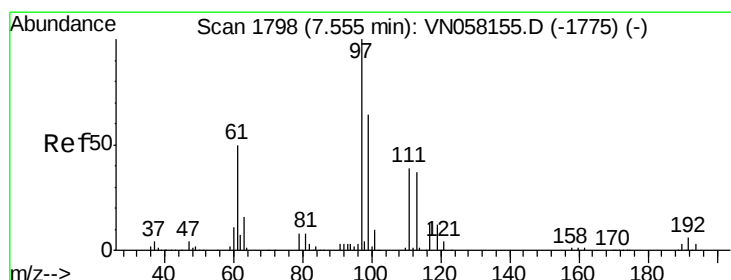
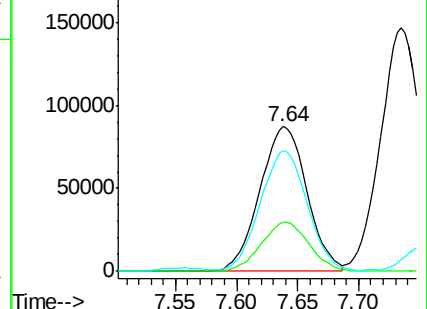
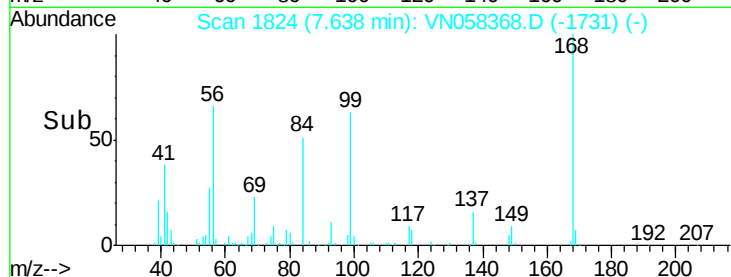
56 100

69 34.3 27.3 40.9

84 81.4 65.0 97.4



Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 49.391 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

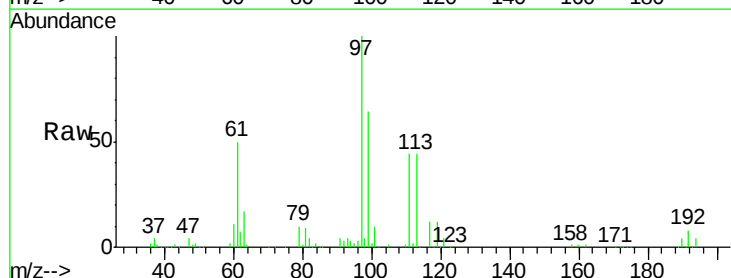
Tgt Ion: 97 Resp: 317947

Ion Ratio Lower Upper

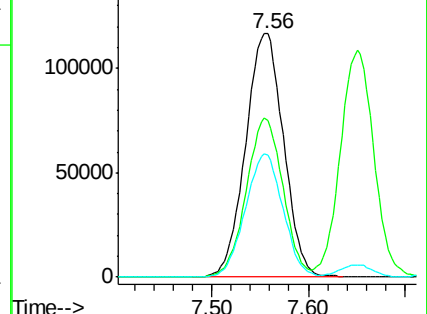
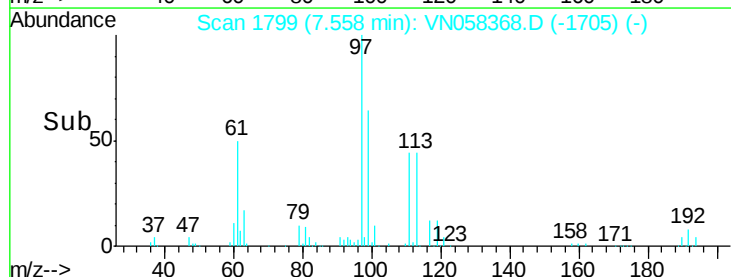
97 100

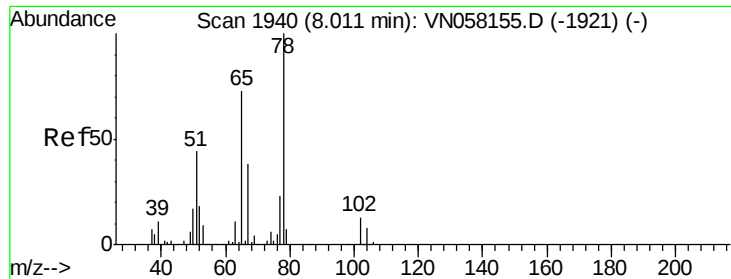
99 63.2 50.9 76.3

61 50.1 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VN0  
Ion 98.90 (98.60 to 99.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0

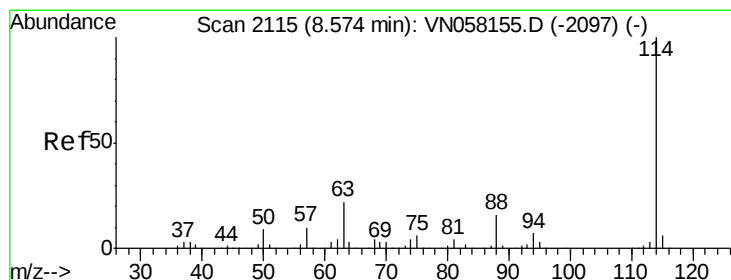
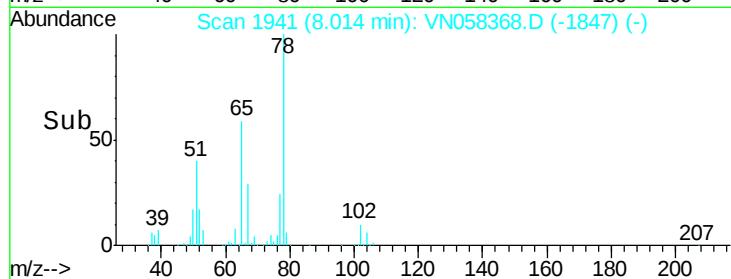
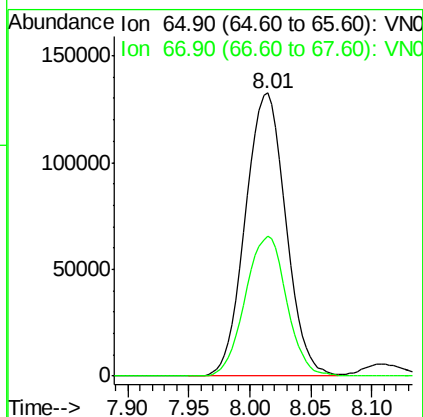
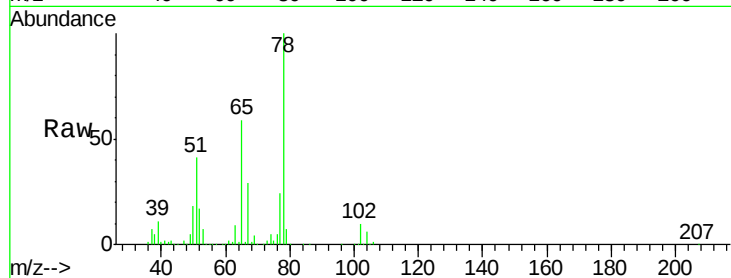




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.914 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. 0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

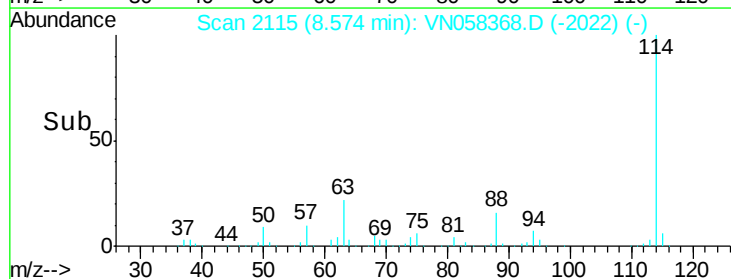
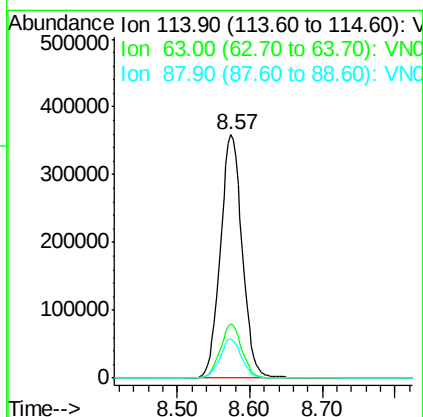
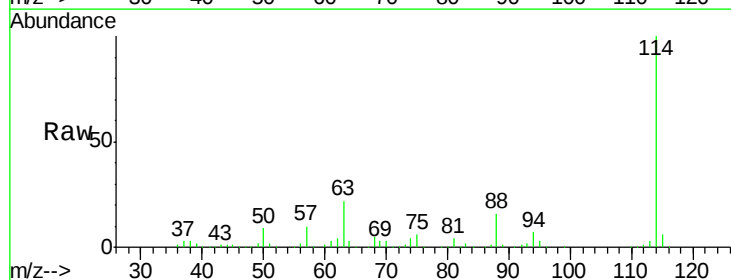
Instrument :  
 MSVOA\_N  
 ClientSampled :

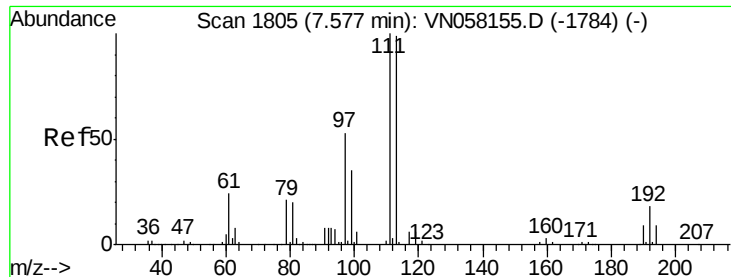
Tot Ion: 65 Resp: 304511  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Tgt Ion: 114 Resp: 746868  
 Ion Ratio Lower Upper  
 114 100  
 63 22.3 0.0 44.2  
 88 16.2 0.0 31.6

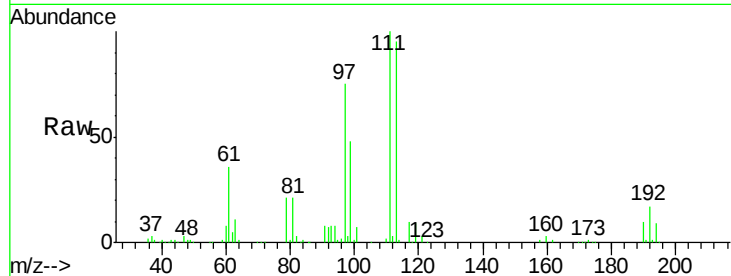




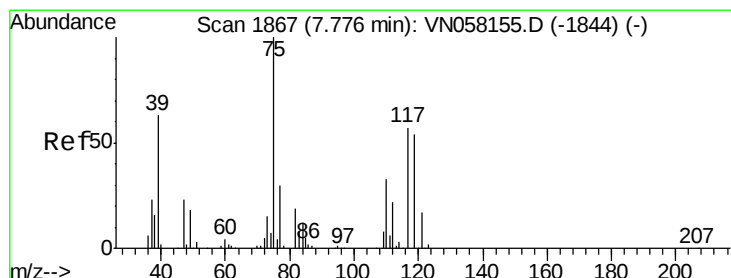
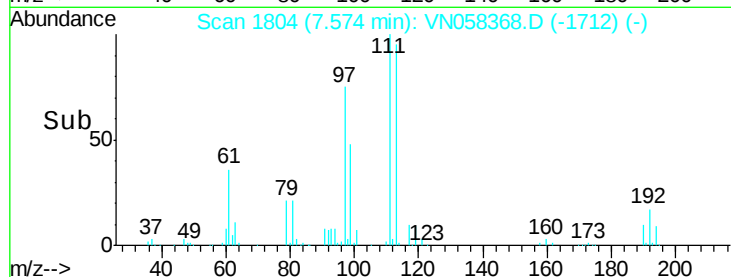
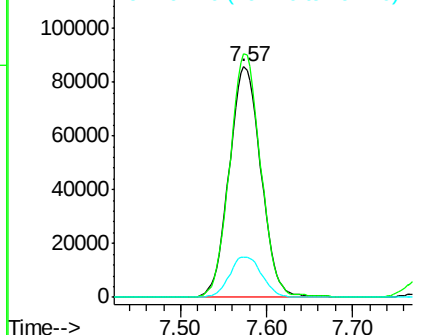
#35  
 Dibromofluoromethane  
 Concen: 48.550 ug/l  
 RT: 7.57 min Scan# 1804  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion:113 Resp: 220432  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 81.8 122.6  
 192 17.9 14.5 21.7

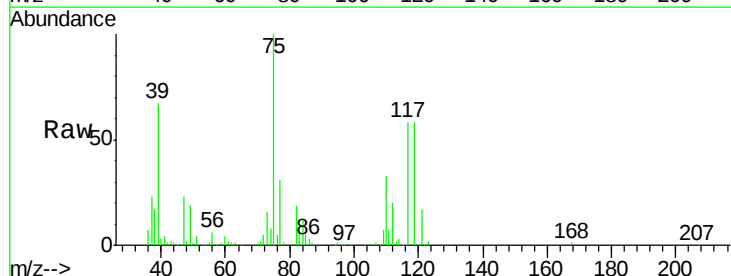


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

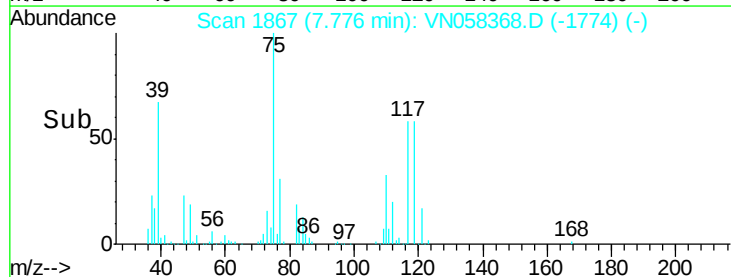
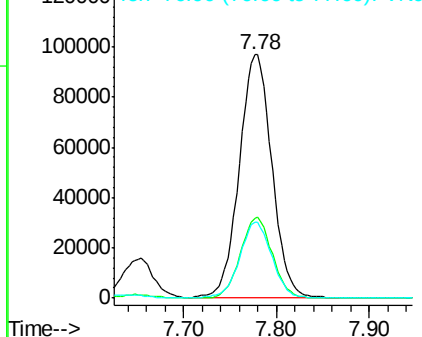


#36  
 1,1-Dichloropropene  
 Concen: 43.622 ug/l  
 RT: 7.78 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Tgt Ion: 75 Resp: 234950  
 Ion Ratio Lower Upper  
 75 100  
 110 32.6 16.6 49.7  
 77 31.0 24.3 36.5



Abundance Ion 74.90 (74.60 to 75.60): V  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): V

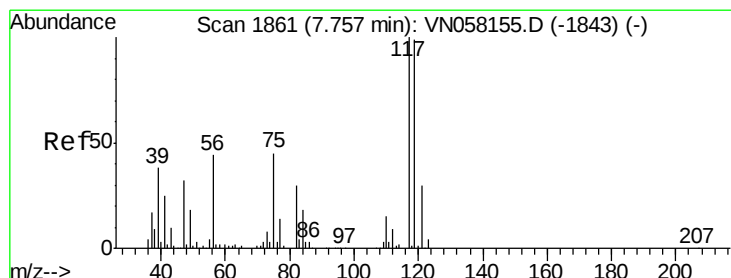
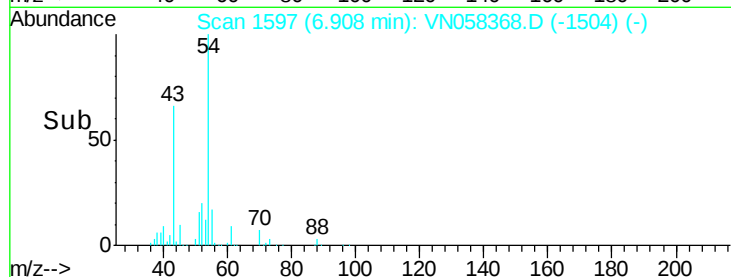
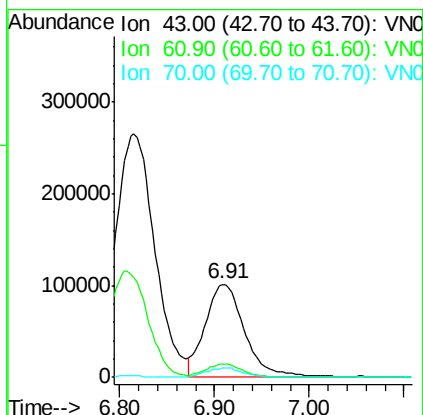
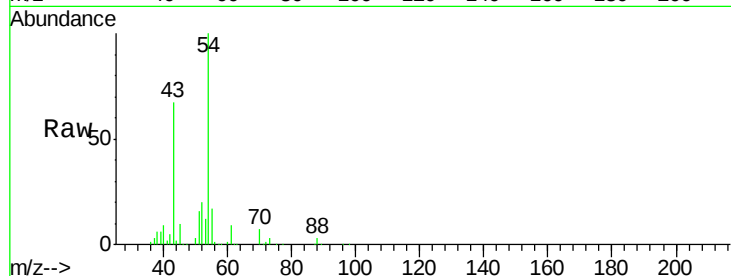




#37  
Ethyl Acetate  
Concen: 51.604 ug/l  
RT: 6.91 min Scan# 1597  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

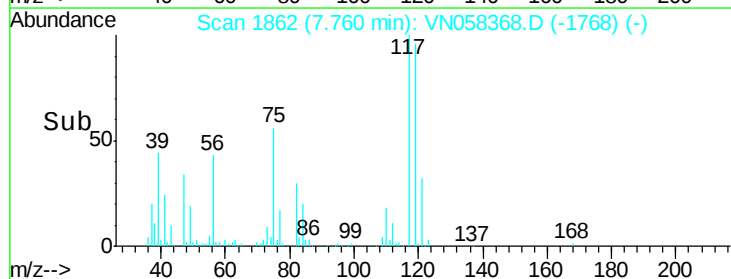
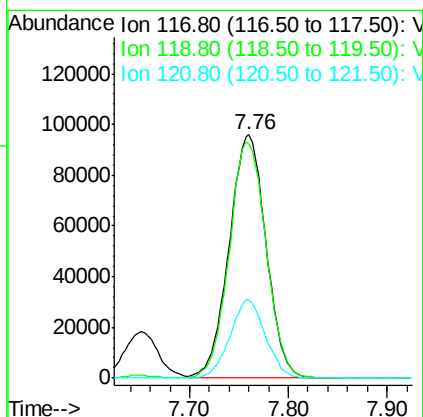
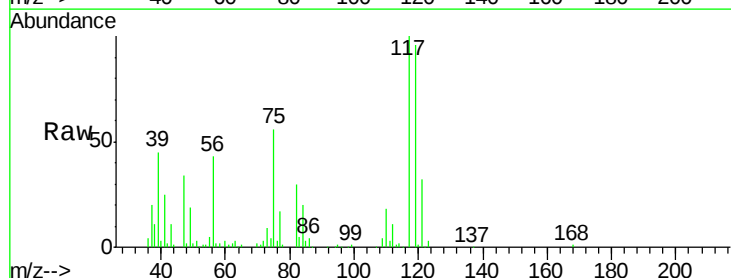
Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 43 Resp: 288441  
Ion Ratio Lower Upper  
43 100  
61 14.1 10.7 16.1  
70 9.3 7.6 11.4



#38  
Carbon Tetrachloride  
Concen: 46.086 ug/l  
RT: 7.76 min Scan# 1862  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 117 Resp: 249519  
Ion Ratio Lower Upper  
117 100  
119 96.5 78.6 117.8  
121 32.0 24.1 36.1

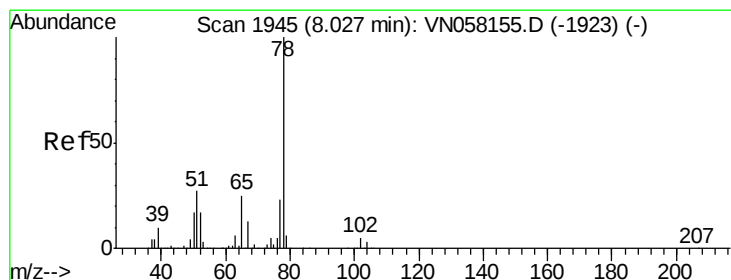
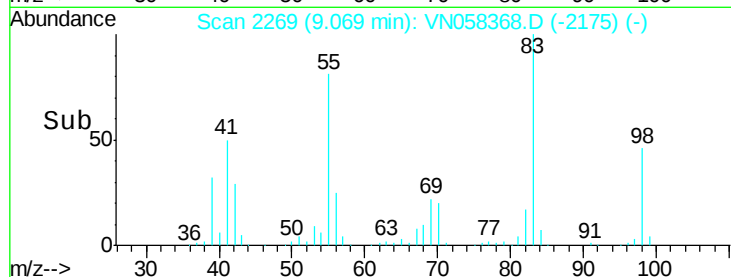
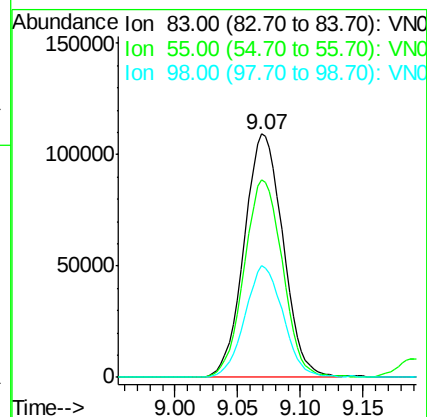
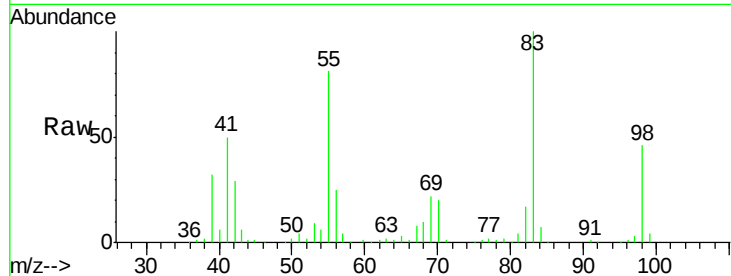




#39  
Methvlcvclohexane  
Concen: 45.262 ug/l  
RT: 9.07 min Scan# 2269  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

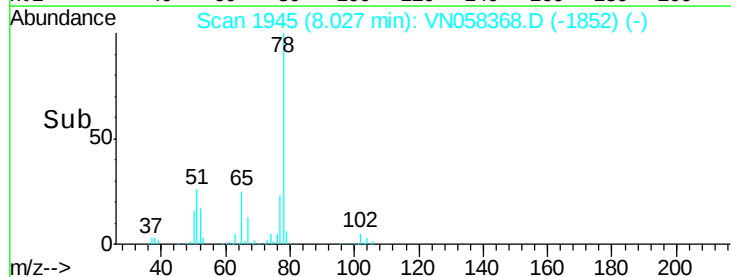
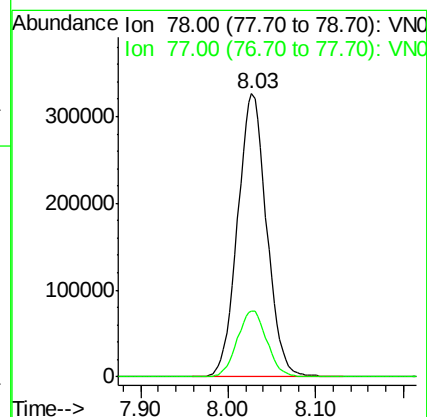
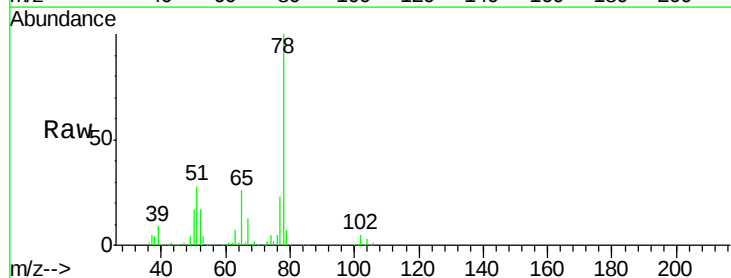
Instrument :  
MSVOA\_N  
ClientSampled :

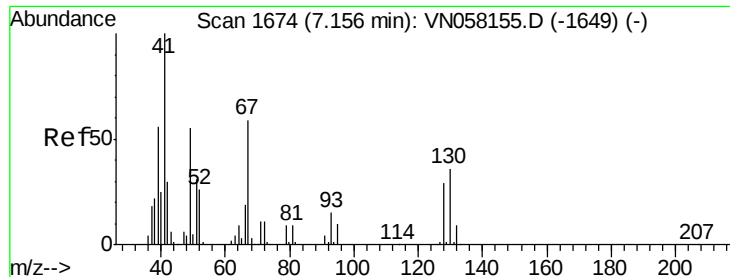
Tot Ion: 83 Resp: 235670  
Ion Ratio Lower Upper  
83 100  
55 81.1 61.9 92.9  
98 45.6 35.4 53.2



#40  
Benzene  
Concen: 45.702 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 78 Resp: 751835  
Ion Ratio Lower Upper  
78 100  
77 23.4 18.8 28.2

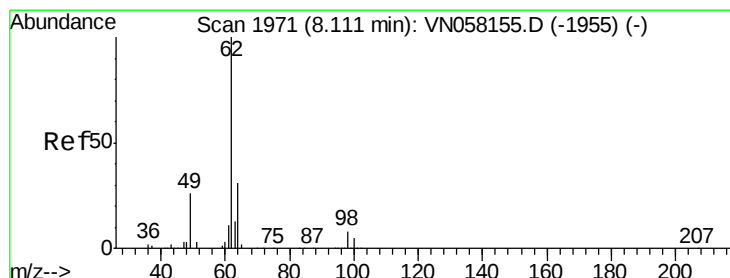
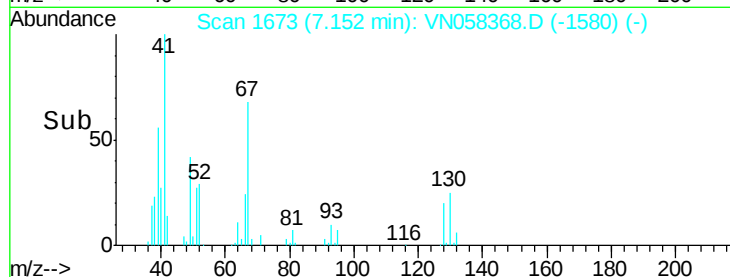
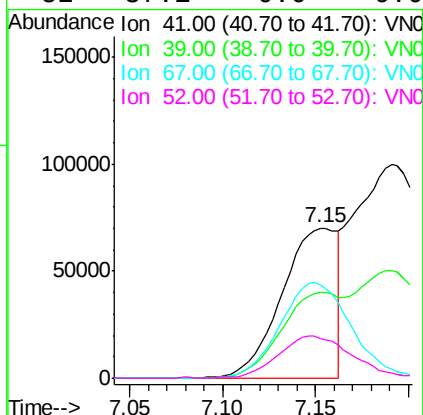
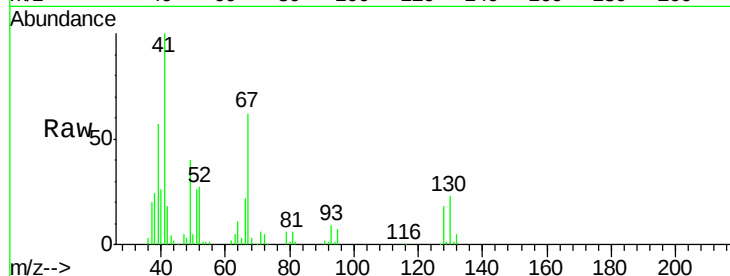




#41  
Methacrylonitrile  
Concen: 52.039 ug/l  
RT: 7.15 min Scan# 1673  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

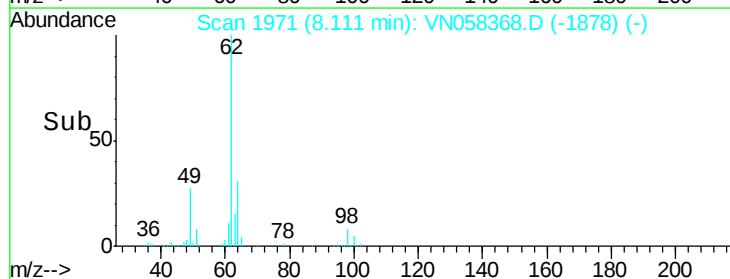
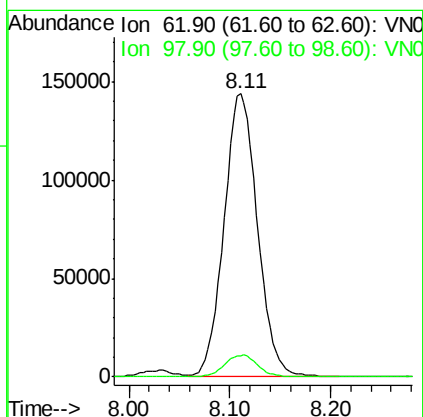
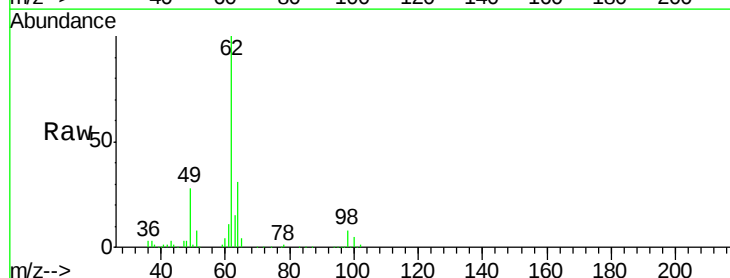
Instrument :  
MSVOA\_N  
ClientSampled :

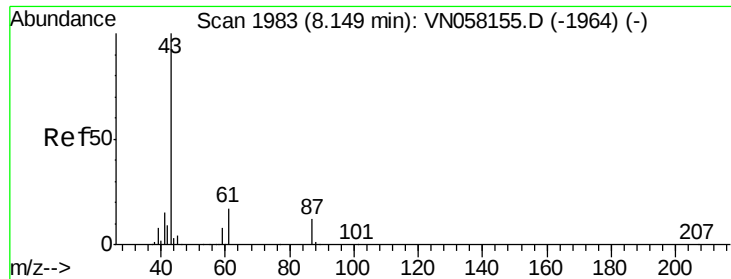
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 146641 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 39       | 61.4  | 0.0   | 0.0#   |
| 67       | 82.6  | 0.0   | 0.0#   |
| 52       | 37.1  | 0.0   | 0.0#   |



#42  
1,2-Dichloroethane  
Concen: 48.007 ug/l  
RT: 8.11 min Scan# 1971  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 331387 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 7.6   | 0.0   | 15.6   |

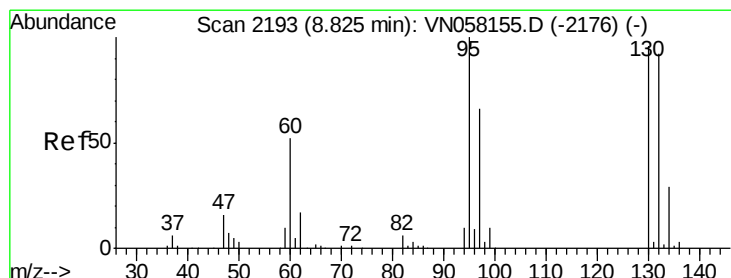
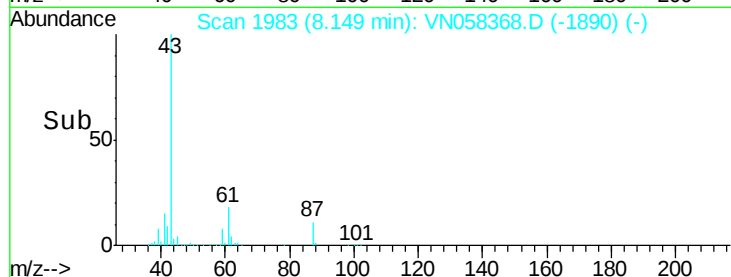
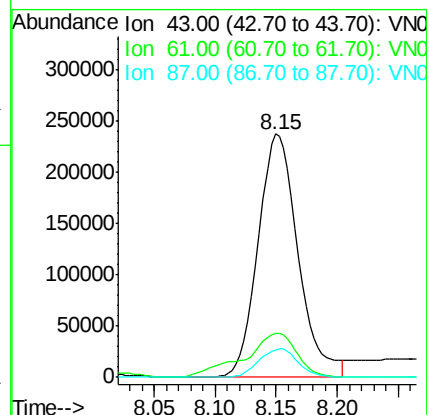
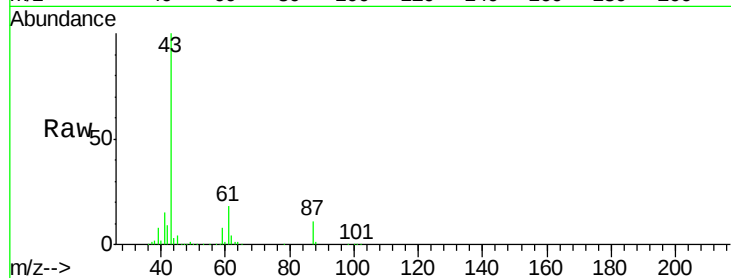




#43  
Isopropyl Acetate  
Concen: 51.275 ug/l  
RT: 8.15 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

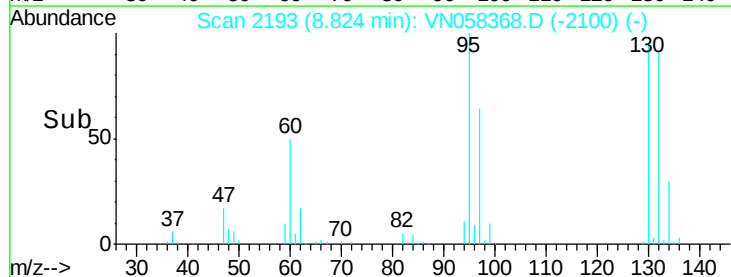
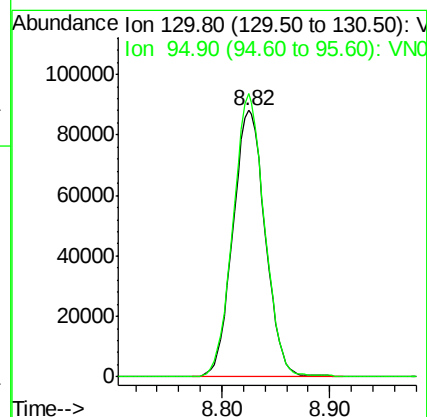
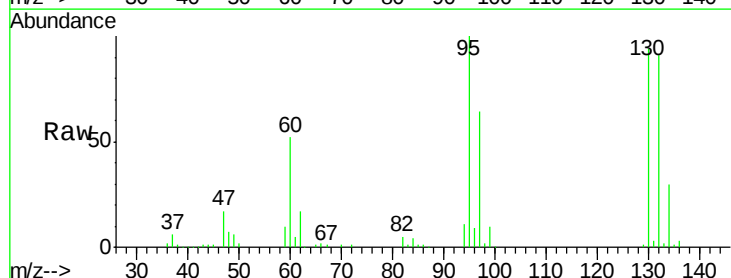
Instrument :  
MSVOA\_N  
ClientSampleId :

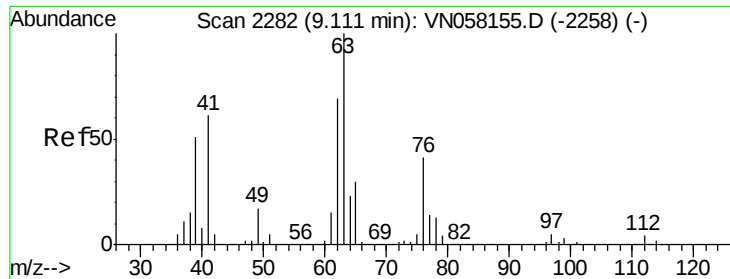
Tot Ion: 43 Resp: 535257  
Ion Ratio Lower Upper  
43 100  
61 23.9 19.7 29.5  
87 11.7 9.4 14.2



#44  
Trichloroethene  
Concen: 45.734 ug/l  
RT: 8.82 min Scan# 2193  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 130 Resp: 184112  
Ion Ratio Lower Upper  
130 100  
95 106.3 0.0 207.8

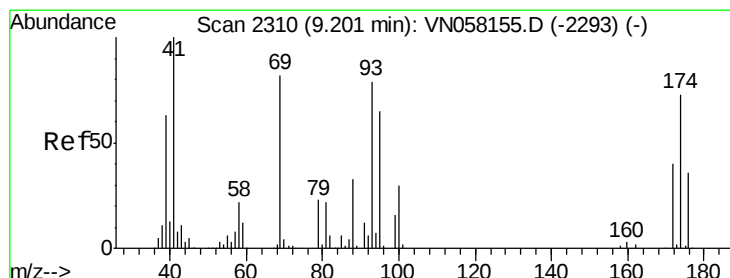
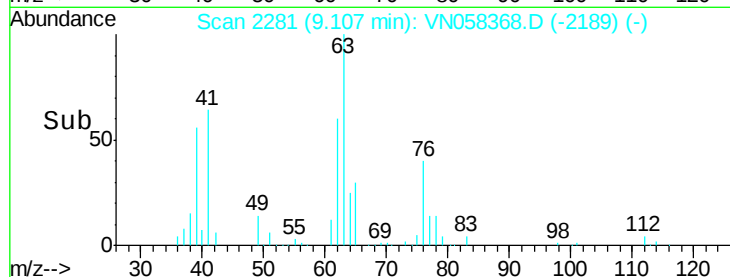
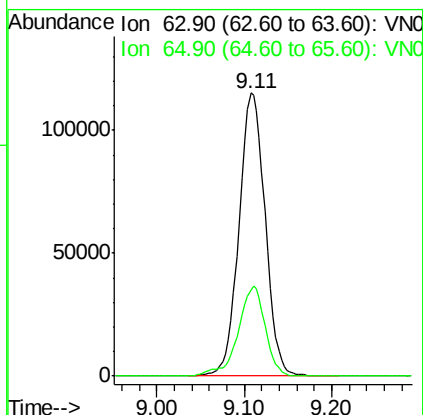
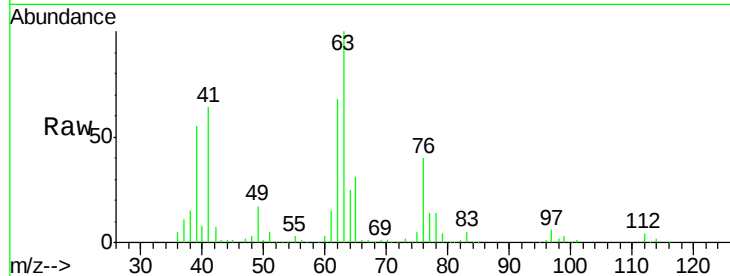




#45  
 1,2-Dichloropropane  
 Concen: 48.717 ug/l  
 RT: 9.11 min Scan# 2281  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

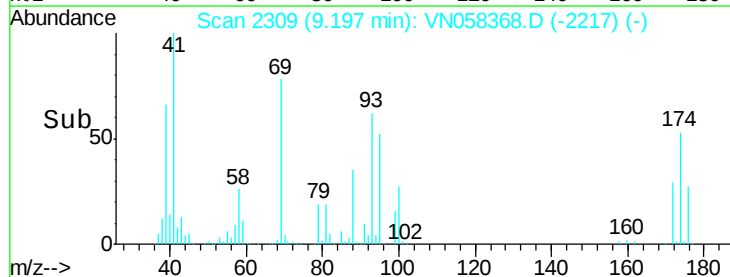
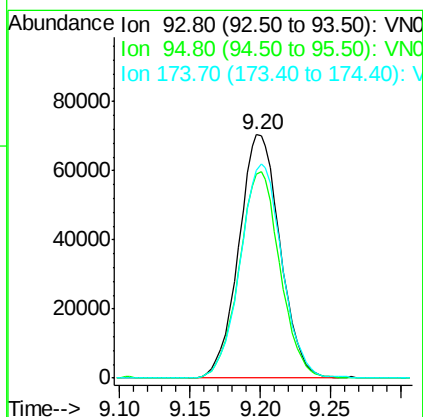
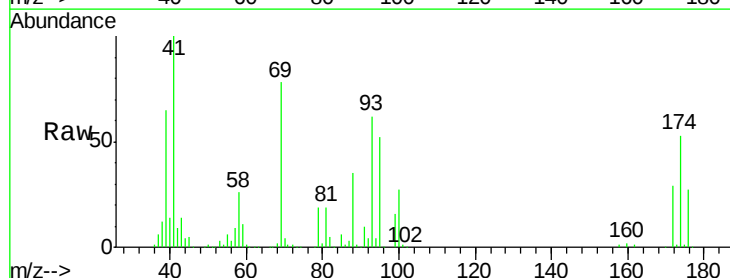
Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 63 Resp: 239340  
 Ion Ratio Lower Upper  
 63 100  
 65 30.5 23.8 35.6



#46  
 Dibromomethane  
 Concen: 48.309 ug/l  
 RT: 9.20 min Scan# 2309  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Tgt Ion: 93 Resp: 144294  
 Ion Ratio Lower Upper  
 93 100  
 95 83.7 66.8 100.2  
 174 88.9 73.8 110.8





#47

Bromodichloromethane

Concen: 51.549 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampled :

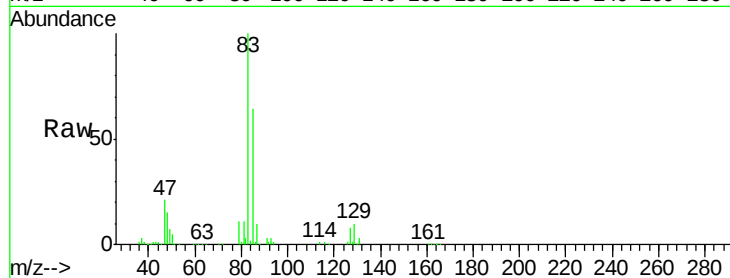
Tot Ion: 83 Resp: 322570

Ion Ratio Lower Upper

83 100

85 64.1 50.1 75.1

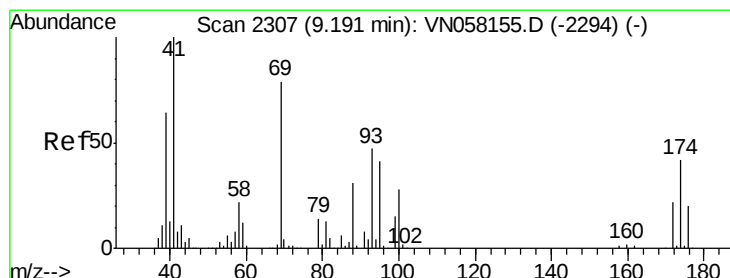
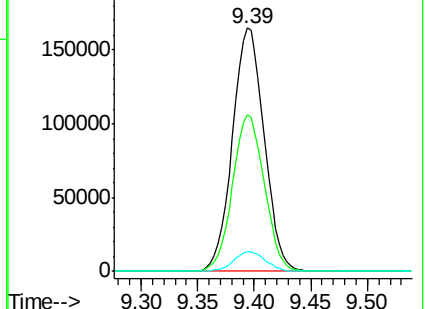
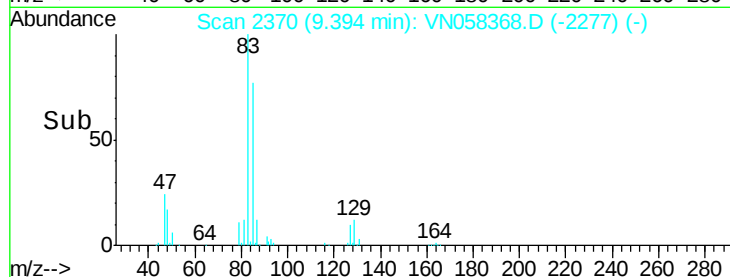
127 8.0 6.4 9.6



Abundance Ion 82.90 (82.60 to 83.60): VN058368.D (-2277) (-)

Ion 84.90 (84.60 to 85.60): VN058368.D (-2277) (-)

Ion 126.80 (126.50 to 127.50): VN058368.D (-2277) (-)



#48

Methyl methacrylate

Concen: 52.204 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

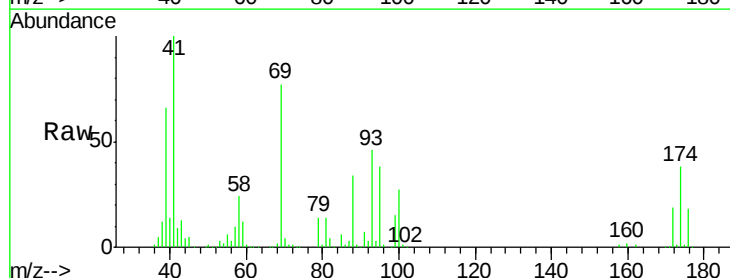
Tgt Ion: 41 Resp: 247433

Ion Ratio Lower Upper

41 100

69 78.3 62.5 93.7

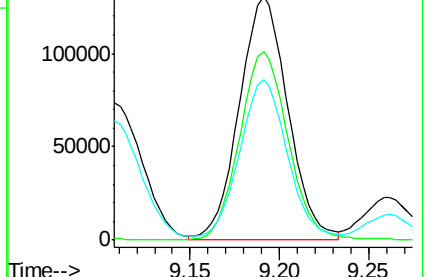
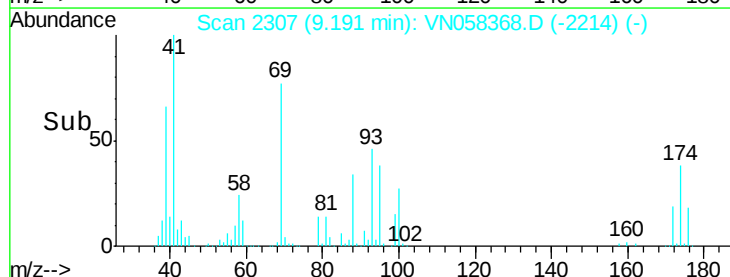
39 64.9 52.3 78.5

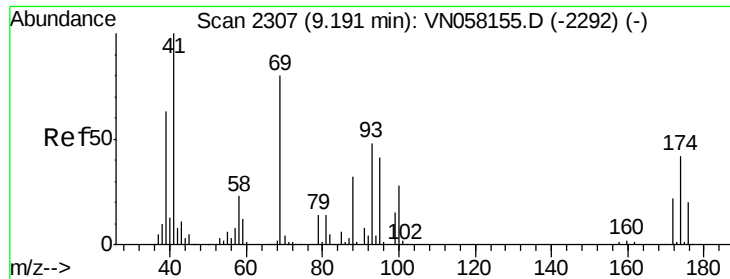


Abundance Ion 41.00 (40.70 to 41.70): VN058368.D (-2214) (-)

Ion 69.00 (68.70 to 69.70): VN058368.D (-2214) (-)

Ion 39.00 (38.70 to 39.70): VN058368.D (-2214) (-)

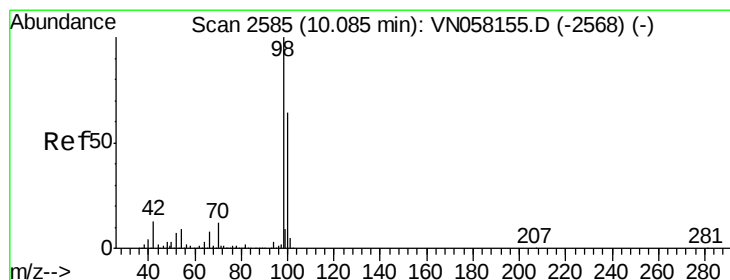
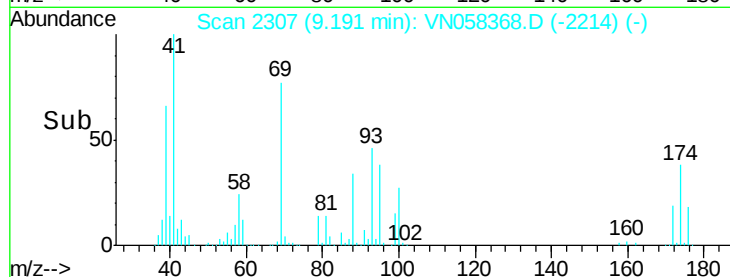
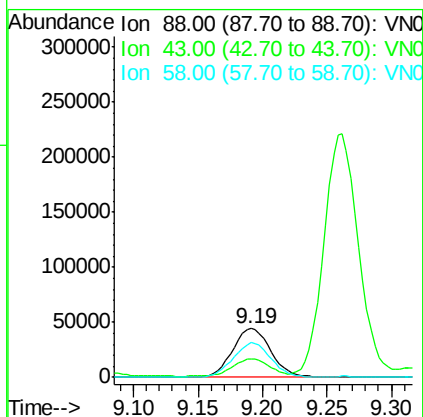
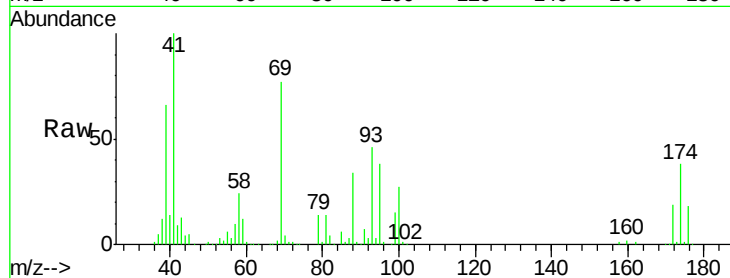




#49  
 1,4-Dioxane  
 Concen: 1178.187 ug/l  
 RT: 9.19 min Scan# 2307  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

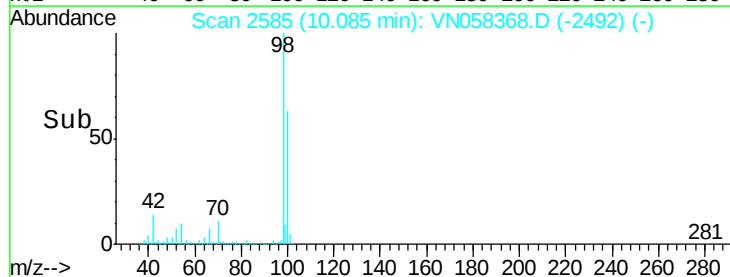
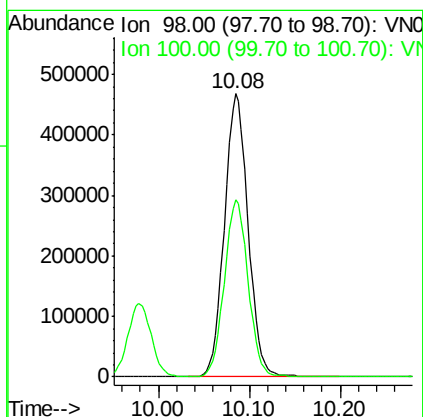
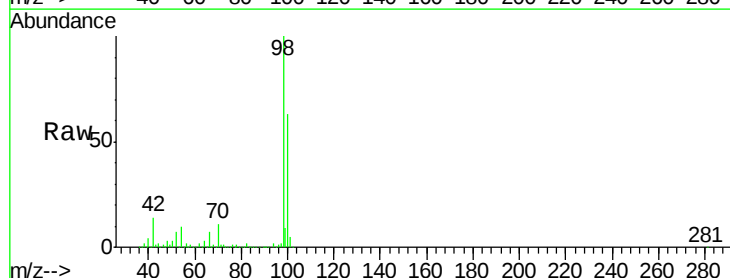
Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 88 Resp: 91684  
 Ion Ratio Lower Upper  
 88 100  
 43 34.9 27.8 41.8  
 58 70.1 55.0 82.4



#50  
 Toluene-d8  
 Concen: 47.753 ug/l  
 RT: 10.08 min Scan# 2585  
 Delta R.T. -0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

Tgt Ion: 98 Resp: 844764  
 Ion Ratio Lower Upper  
 98 100  
 100 63.2 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 296.675 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

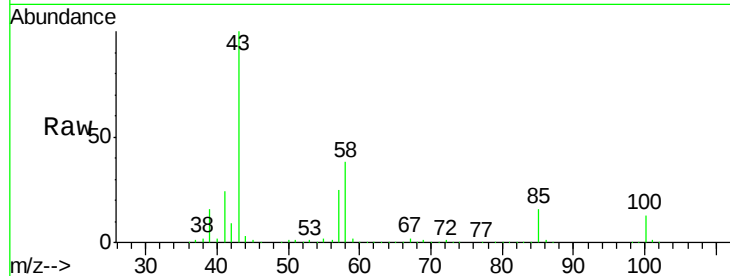
ClientSampled :

Tot Ion: 43 Resp: 1644988

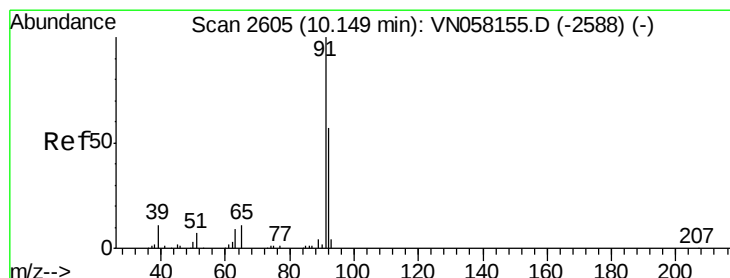
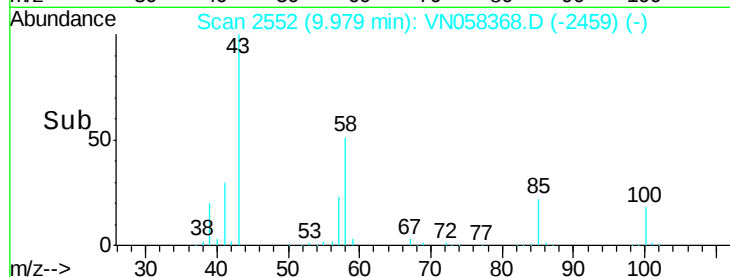
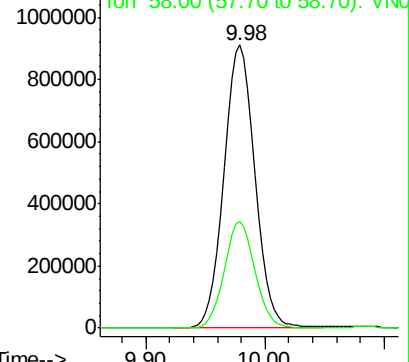
Ion Ratio Lower Upper

43 100

58 37.3 30.2 45.4



Abundance Ion 43.00 (42.70 to 43.70): VN058368.D (-2459) (-)



#52

Toluene

Concen: 46.492 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN058368.D

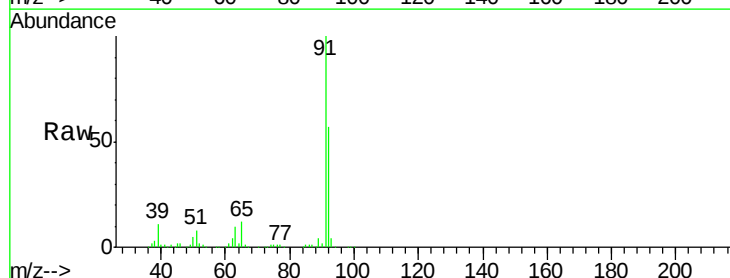
Acq: 25 Sep 2019 15:33

Tgt Ion: 92 Resp: 479330

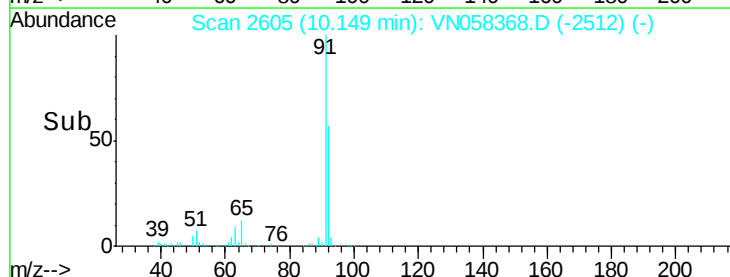
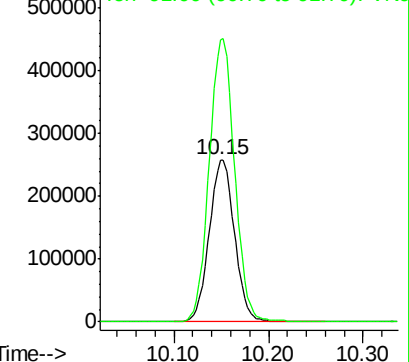
Ion Ratio Lower Upper

92 100

91 175.9 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN058368.D (-2512) (-)





#53

t-1,3-Dichloropropene

Concen: 52.648 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

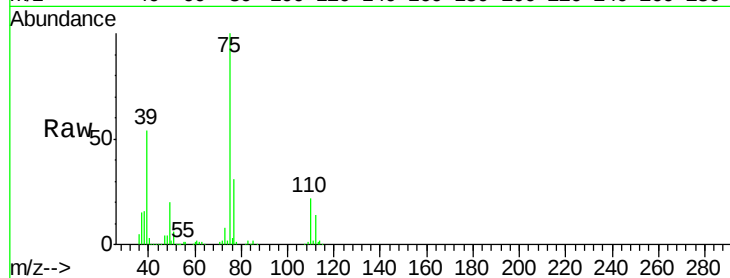
ClientSampled :

Tot Ion: 75 Resp: 337470

Ion Ratio Lower Upper

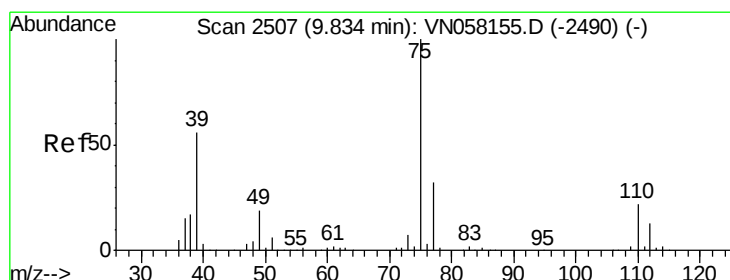
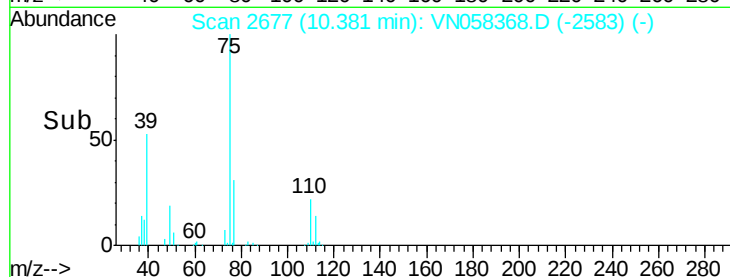
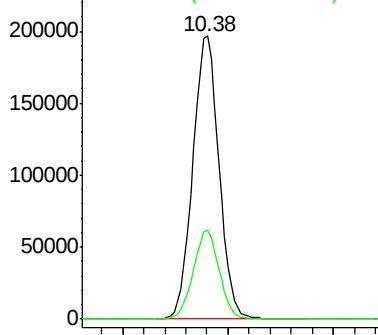
75 100

77 31.4 24.9 37.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 50.396 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

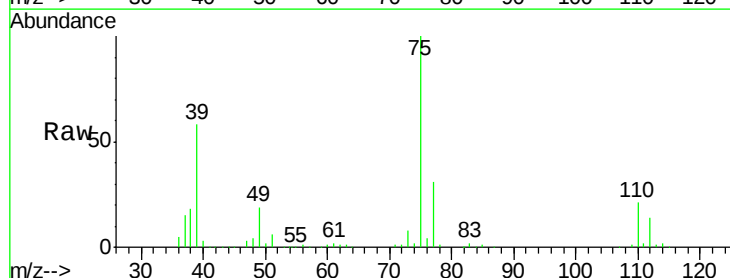
Tgt Ion: 75 Resp: 356649

Ion Ratio Lower Upper

75 100

77 30.6 25.4 38.0

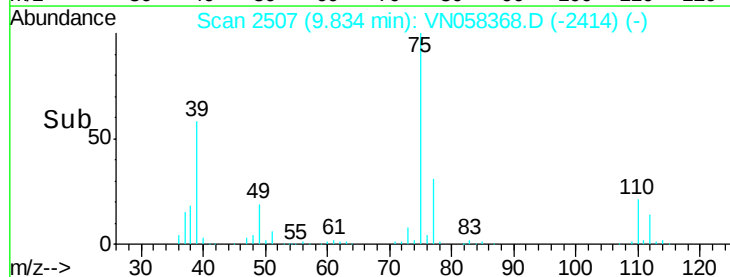
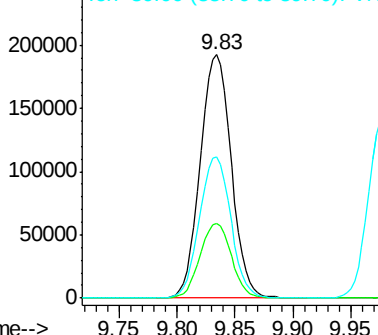
39 58.0 45.0 67.6

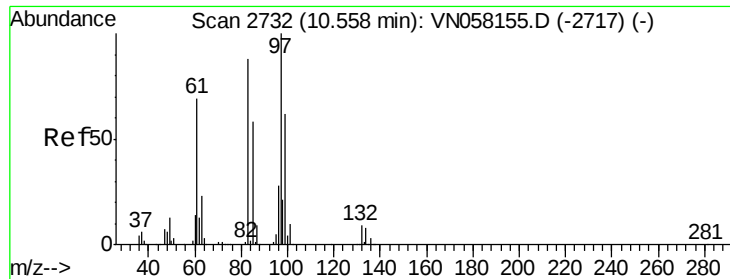


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#55

1,1,2-Trichloroethane

Concen: 50.960 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 97 Resp: 233158

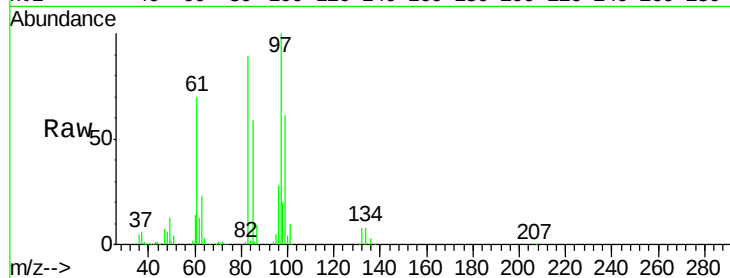
Ion Ratio Lower Upper

97 100

83 89.5 70.4 105.6

85 58.8 46.8 70.2

99 61.2 49.9 74.9

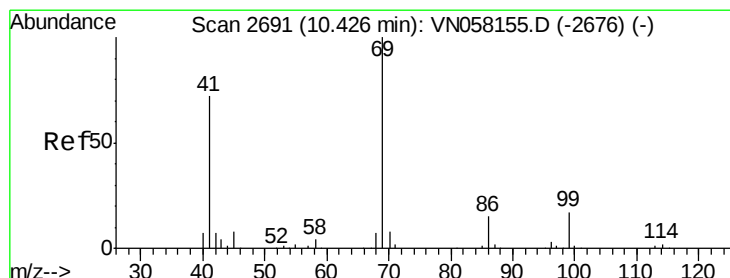
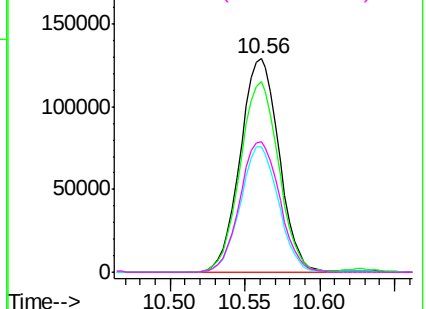
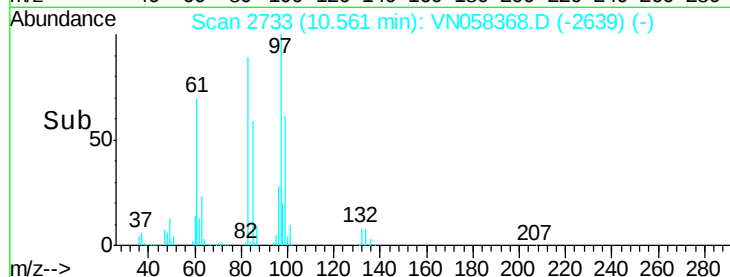


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 52.819 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

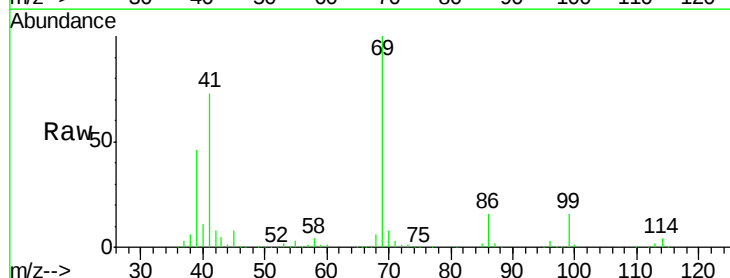
Tgt Ion: 69 Resp: 348674

Ion Ratio Lower Upper

69 100

41 72.1 57.5 86.3

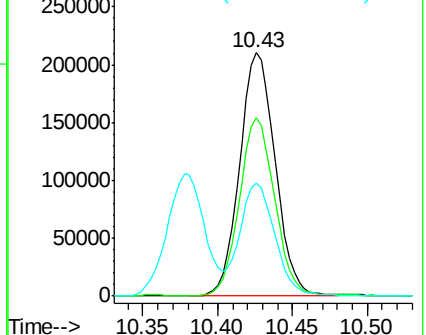
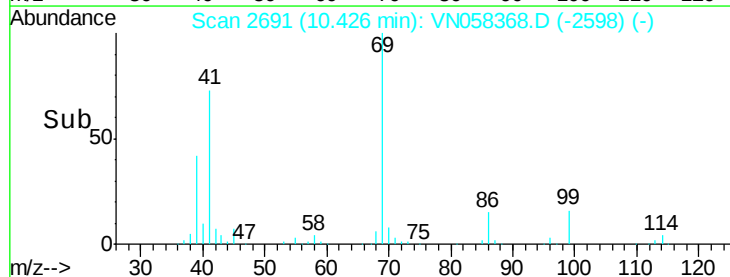
39 45.4 36.1 54.1



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 49.747 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

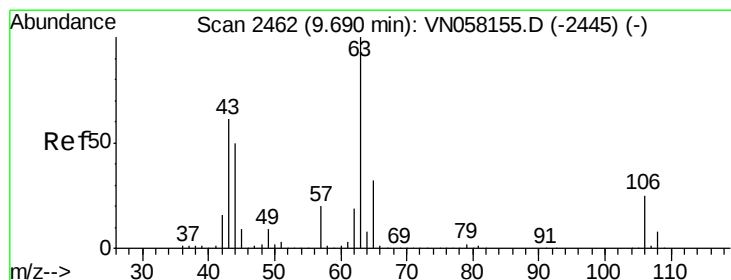
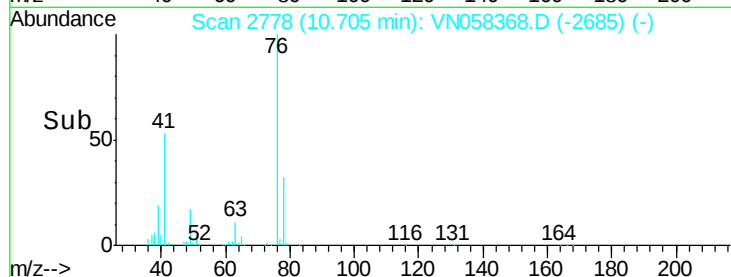
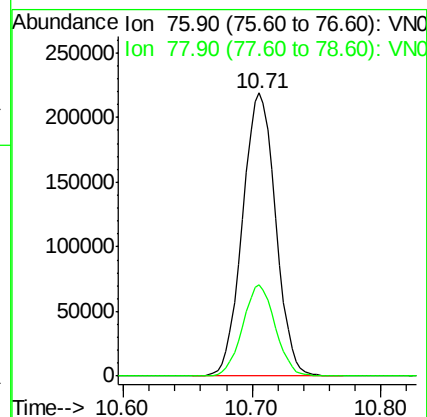
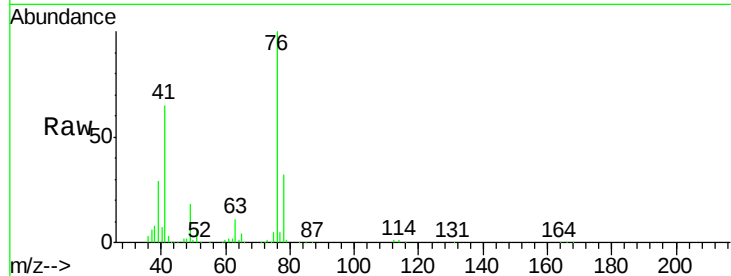
ClientSampleId :

Tot Ion: 76 Resp: 391281

Ion Ratio Lower Upper

76 100

78 31.9 25.4 38.0



#58

2-Chloroethyl Vinyl ether

Concen: 268.431 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN058368.D

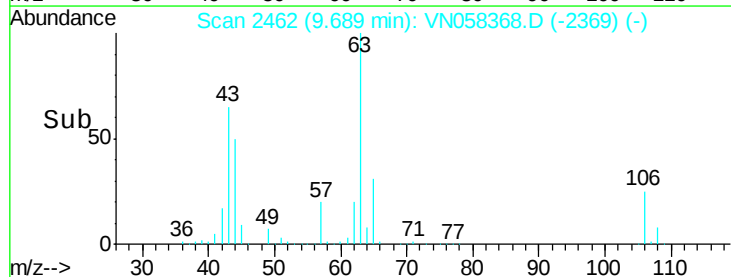
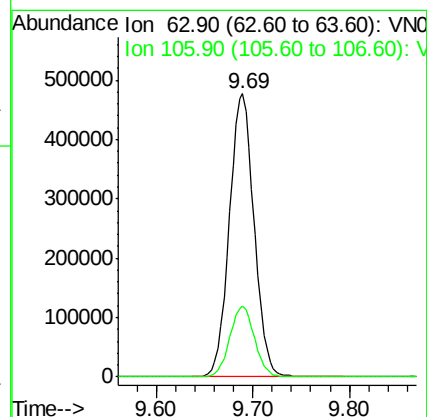
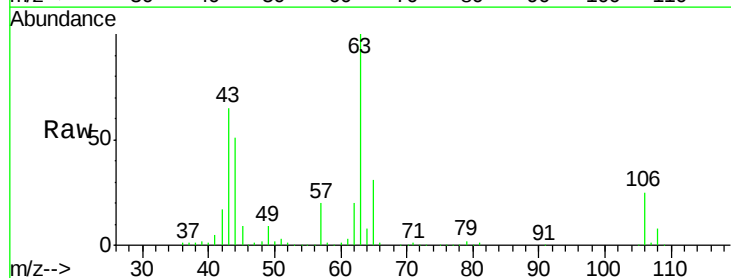
Acq: 25 Sep 2019 15:33

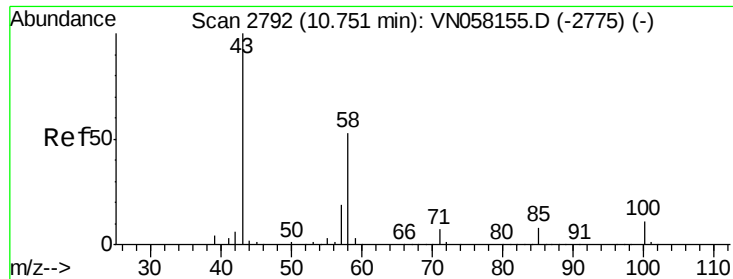
Tgt Ion: 63 Resp: 844053

Ion Ratio Lower Upper

63 100

106 25.0 19.9 29.9

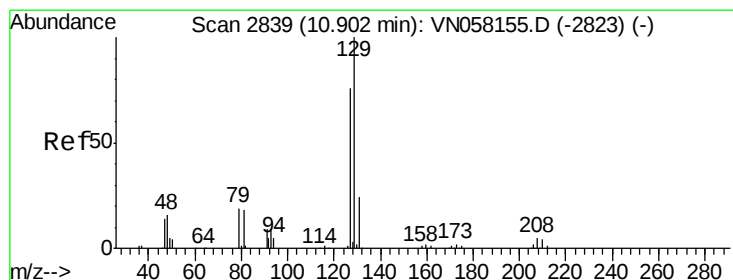
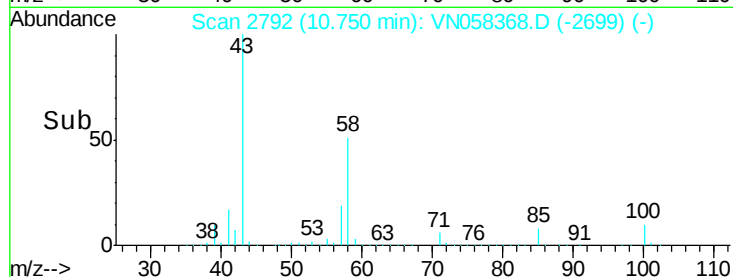
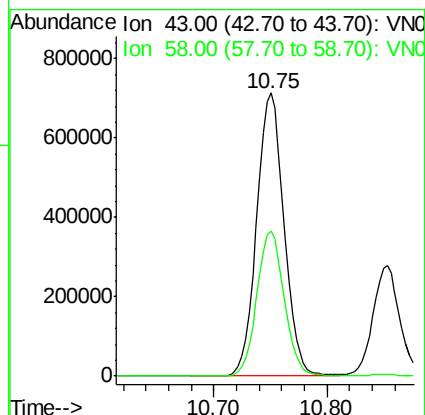
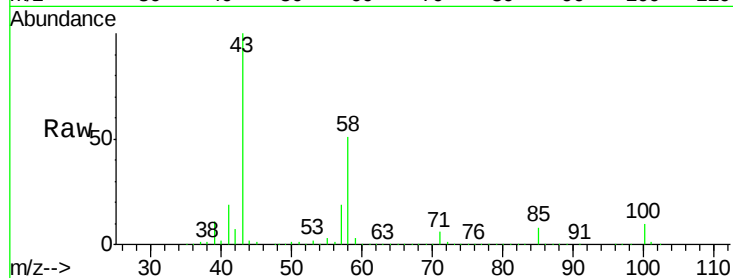




#59  
2-Hexanone  
Concen: 290.698 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

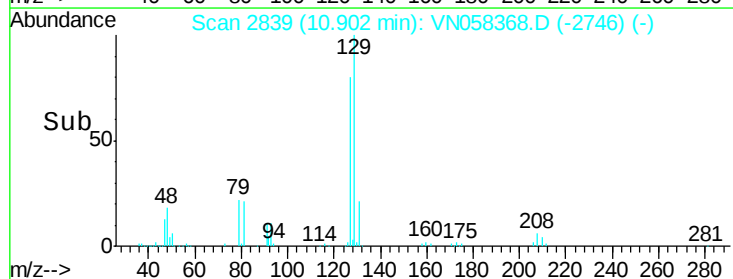
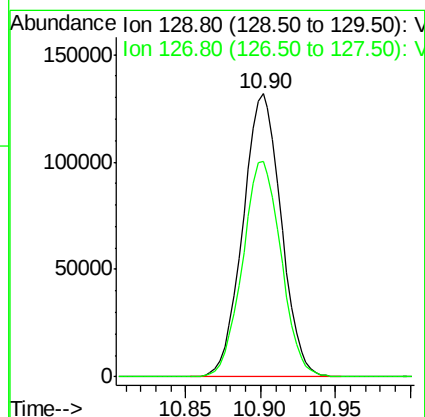
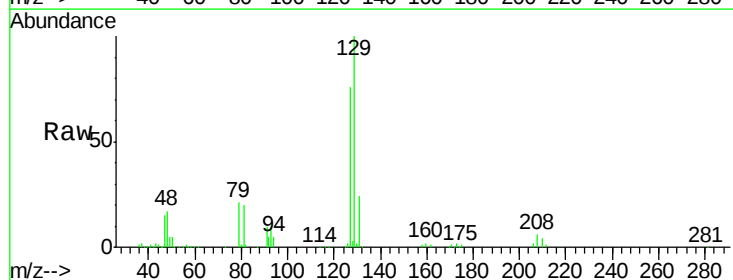
Instrument :  
MSVOA\_N  
ClientSampled :

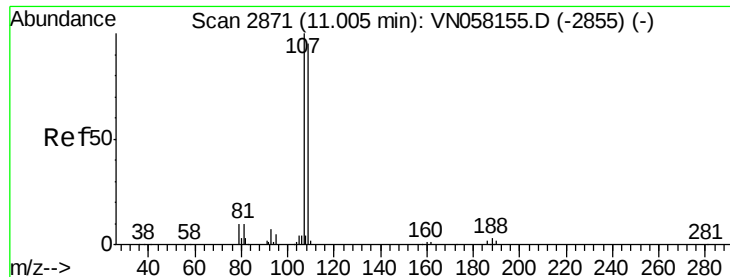
Tot Ion: 43 Resp: 1197101  
Ion Ratio Lower Upper  
43 100  
58 51.4 26.0 78.0



#60  
Dibromochloromethane  
Concen: 53.334 ug/l  
RT: 10.90 min Scan# 2839  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 129 Resp: 234757  
Ion Ratio Lower Upper  
129 100  
127 76.7 38.7 116.1





#61

1,2-Dibromoethane

Concen: 50.608 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

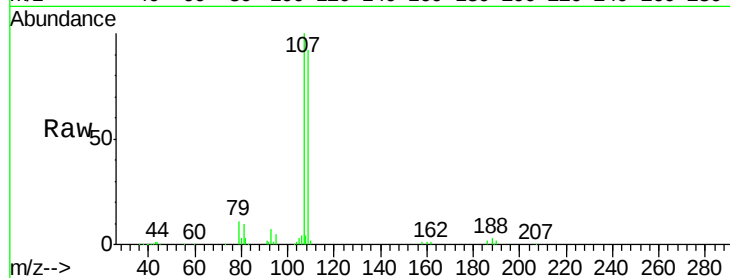
ClientSampled :

Tot Ion: 107 Resp: 214583

Ion Ratio Lower Upper

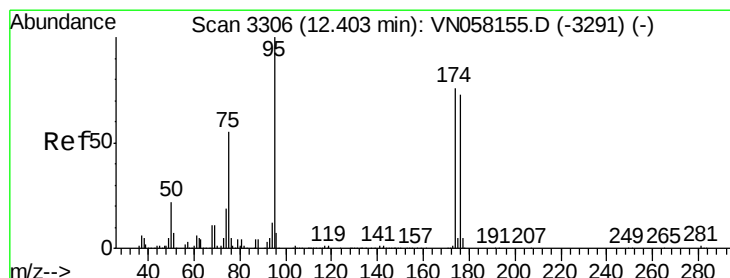
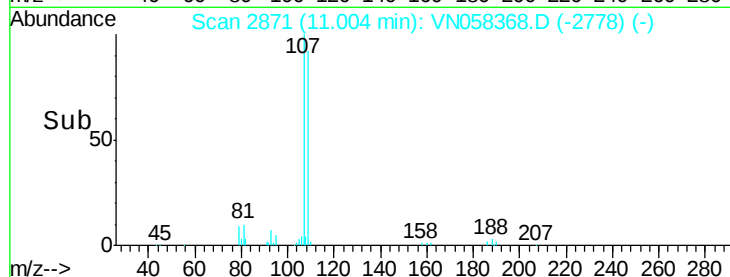
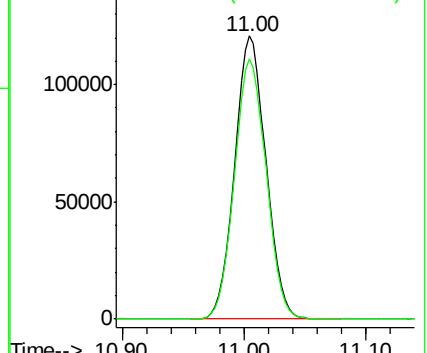
107 100

109 93.3 75.4 113.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.071 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

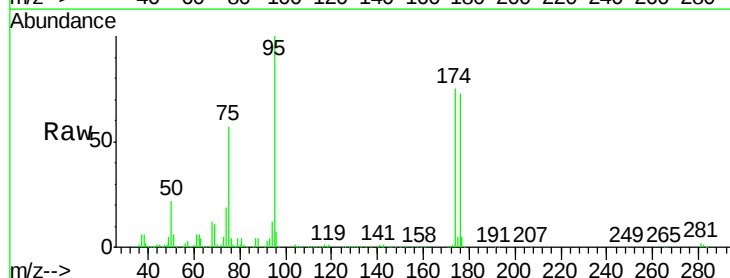
Tgt Ion: 95 Resp: 315884

Ion Ratio Lower Upper

95 100

174 74.7 0.0 152.2

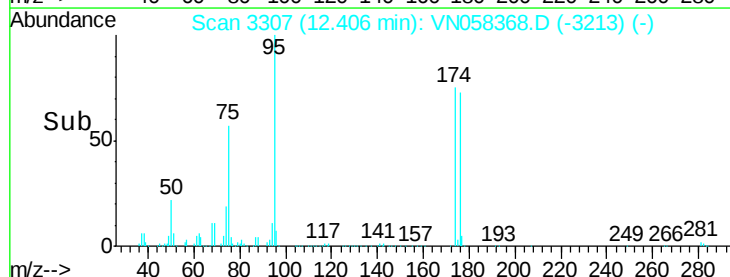
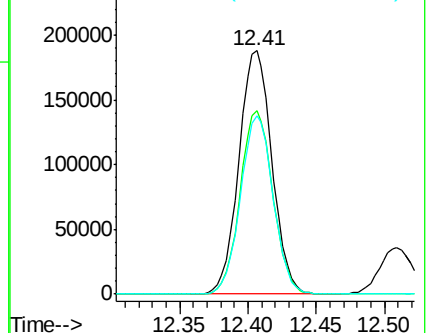
176 72.2 0.0 148.0

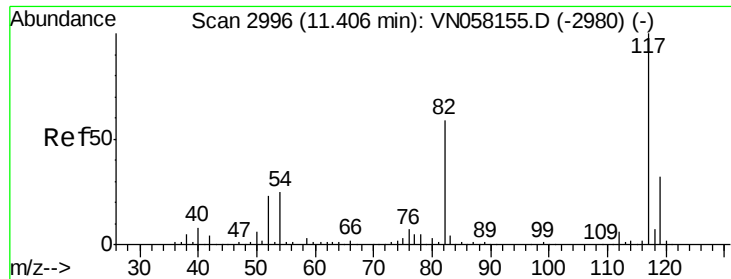


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

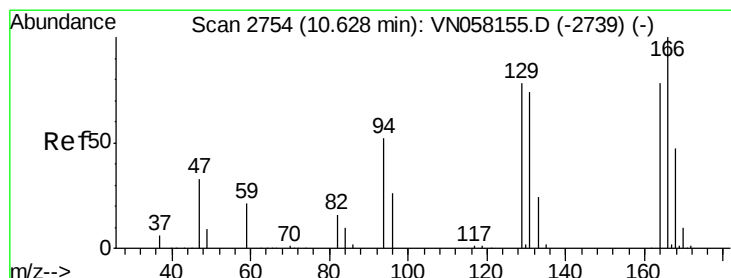
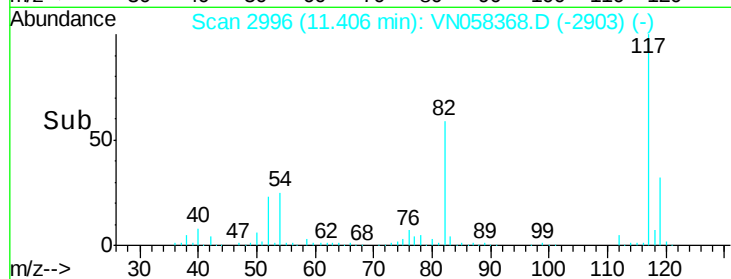
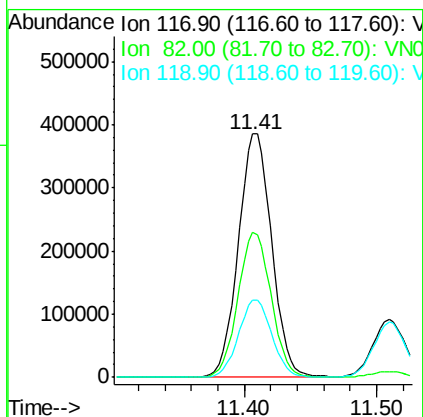
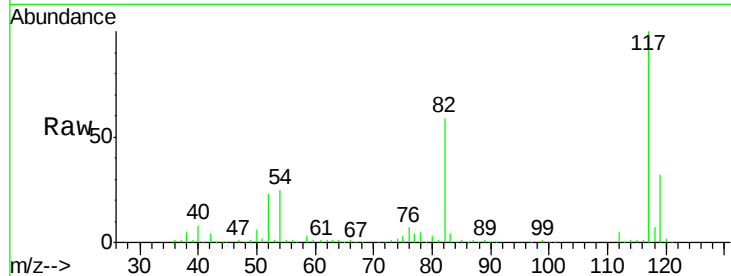




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

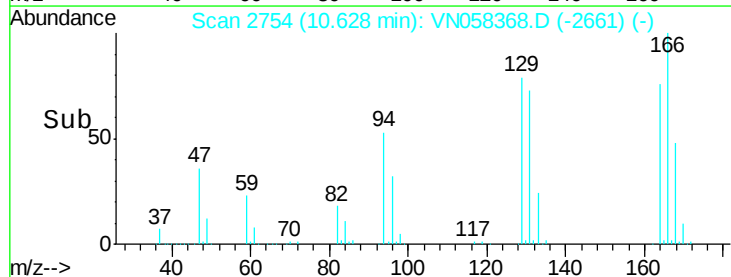
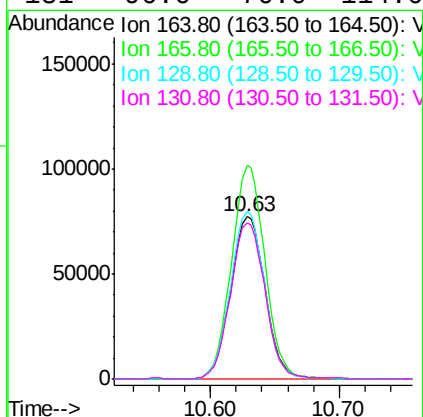
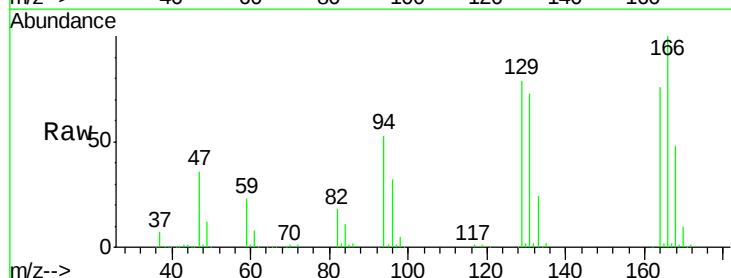
Instrument :  
MSVOA\_N  
ClientSampleId :

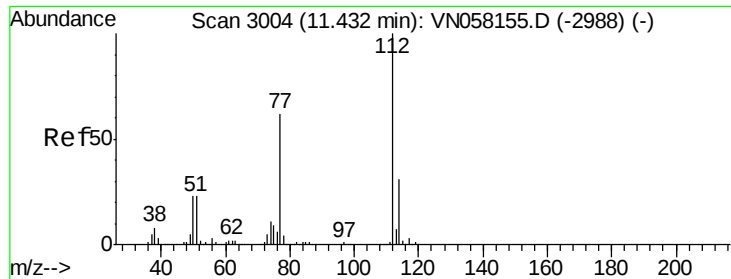
Tot Ion:117 Resp: 673782  
Ion Ratio Lower Upper  
117 100  
82 59.4 46.9 70.3  
119 31.8 25.3 37.9



#64  
Tetrachloroethene  
Concen: 43.672 ug/l  
RT: 10.63 min Scan# 2754  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion:164 Resp: 143442  
Ion Ratio Lower Upper  
164 100  
166 131.7 102.2 153.4  
129 103.6 79.6 119.4  
131 96.6 76.0 114.0

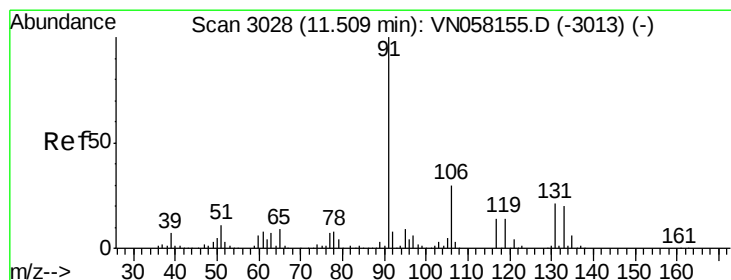
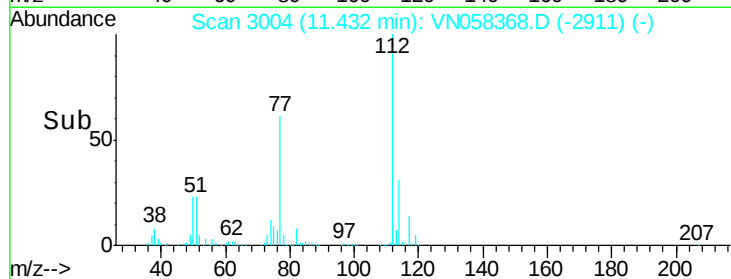
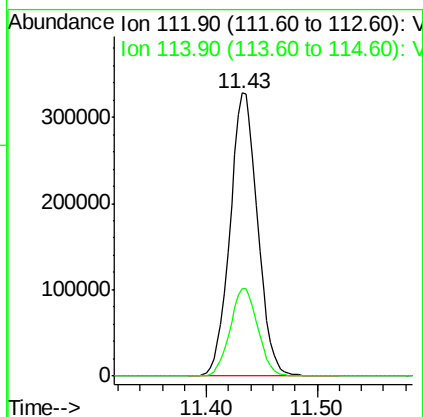
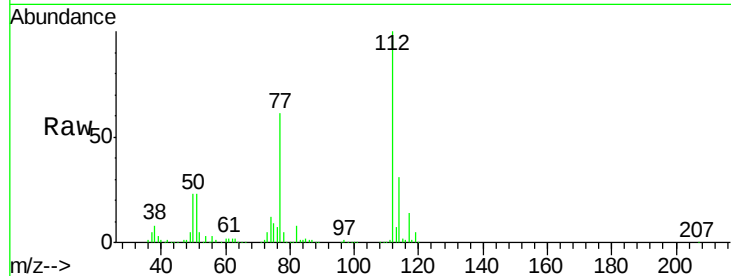




#65  
Chlorobenzene  
Concen: 47.941 ug/l  
RT: 11.43 min Scan# 3004  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

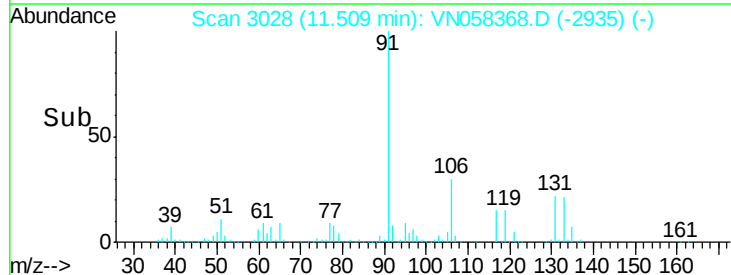
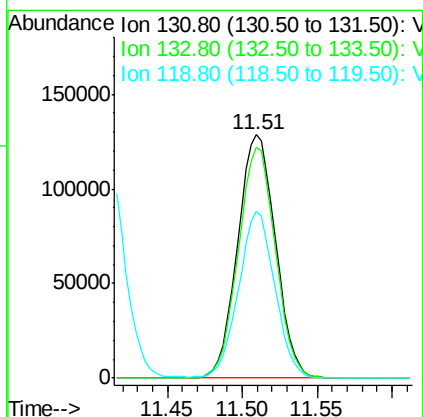
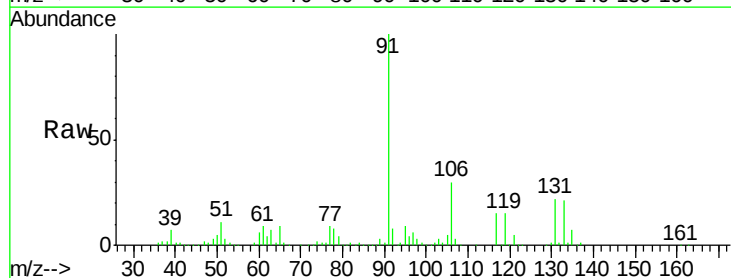
Instrument :  
MSVOA\_N  
ClientSampleId :

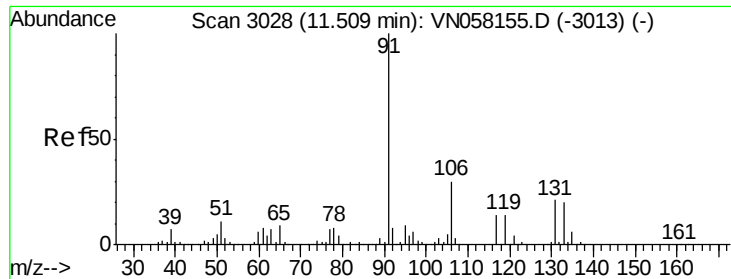
Tot Ion:112 Resp: 568164  
Ion Ratio Lower Upper  
112 100  
114 31.1 25.1 37.7



#66  
1,1,1,2-Tetrachloroethane  
Concen: 52.712 ug/l  
RT: 11.51 min Scan# 3028  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion:131 Resp: 226522  
Ion Ratio Lower Upper  
131 100  
133 93.2 47.8 143.3  
119 65.8 33.1 99.3

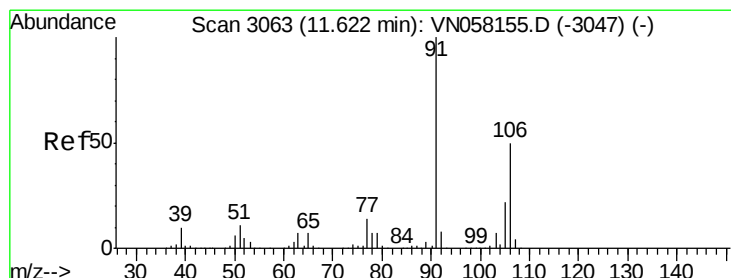
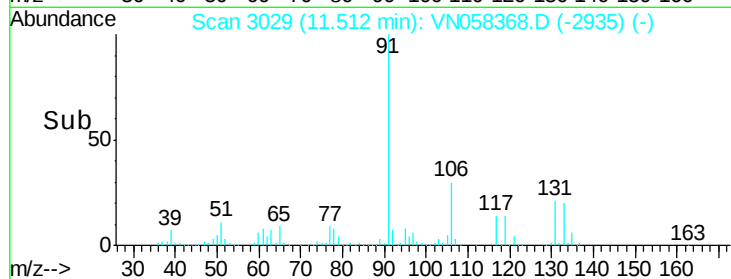
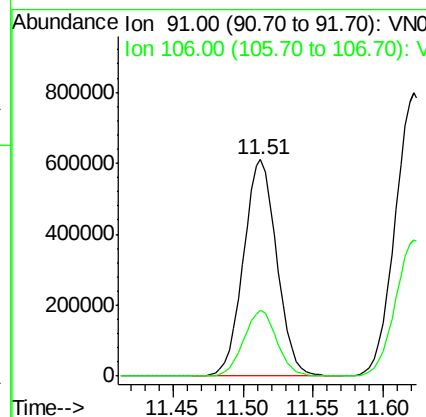
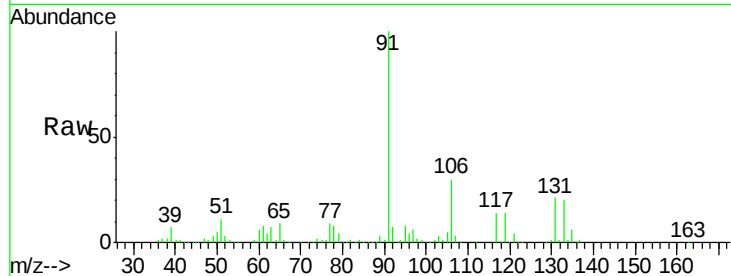




#67  
Ethyl Benzene  
Concen: 49.772 ug/l  
RT: 11.51 min Scan# 3029  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

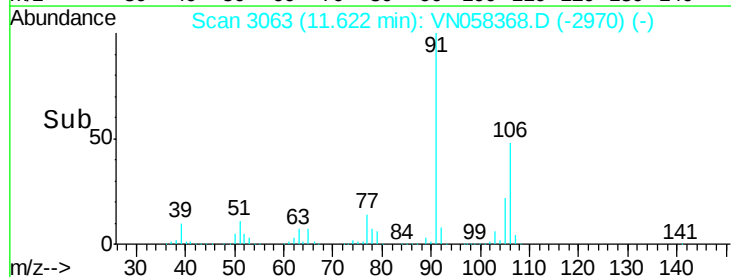
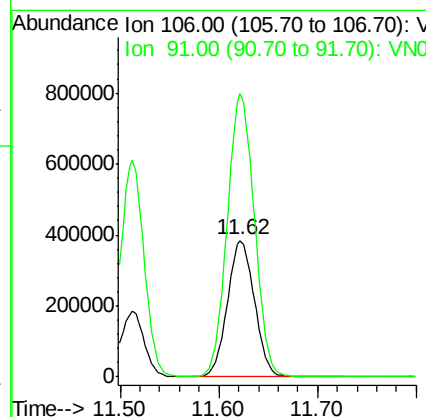
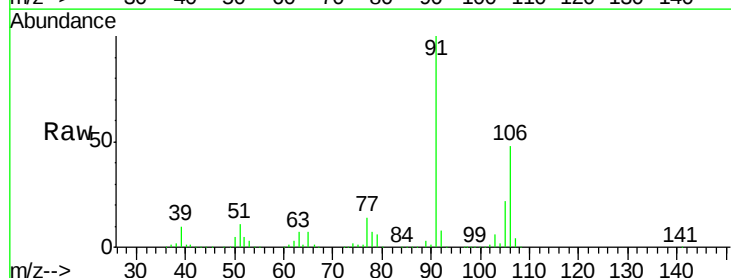
Instrument :  
MSVOA\_N  
ClientSampled :

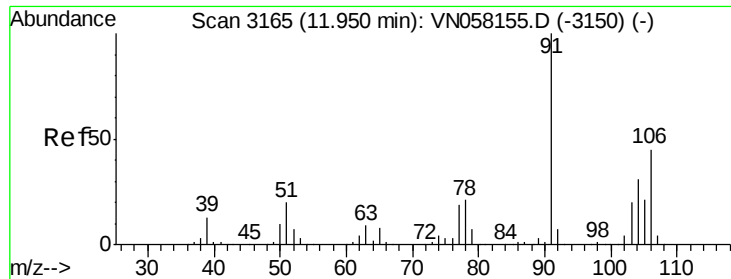
Tot Ion: 91 Resp: 1010732  
Ion Ratio Lower Upper  
91 100  
106 30.3 24.0 36.0



#68  
m/p-Xylenes  
Concen: 96.323 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion: 106 Resp: 736709  
Ion Ratio Lower Upper  
106 100  
91 208.8 163.6 245.4

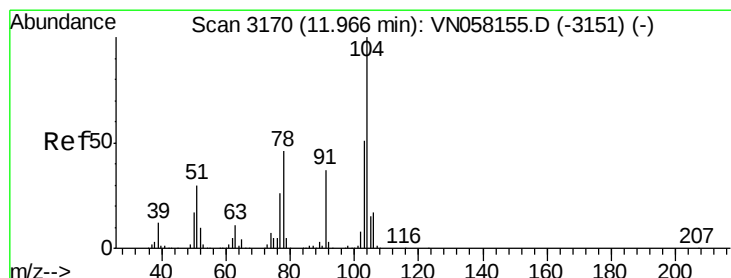
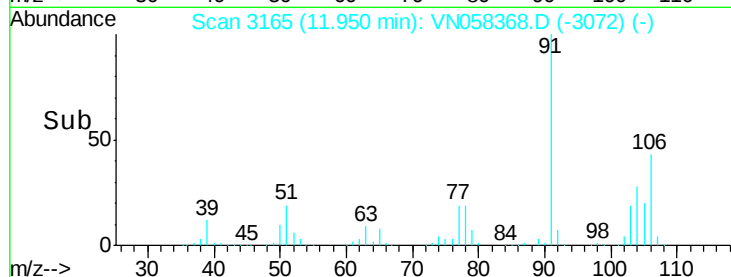
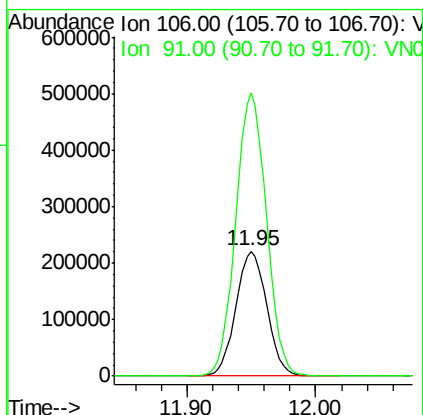
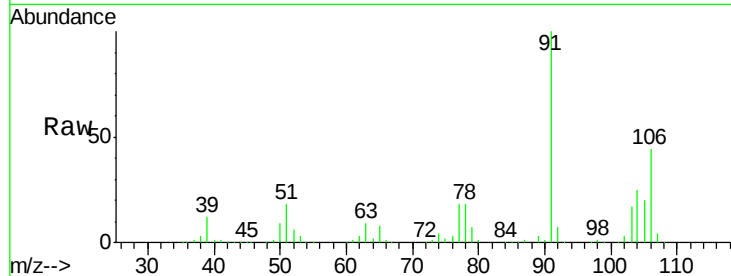




#69  
o-Xylene  
Concen: 49.074 ug/l  
RT: 11.95 min Scan# 3165  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

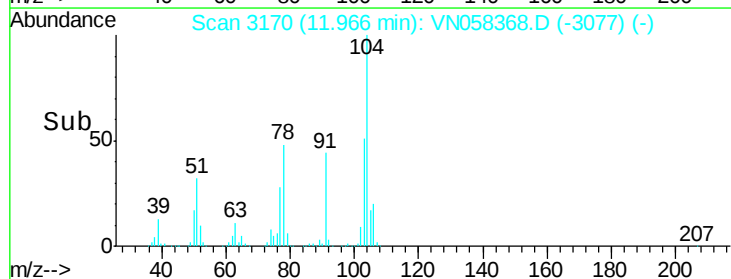
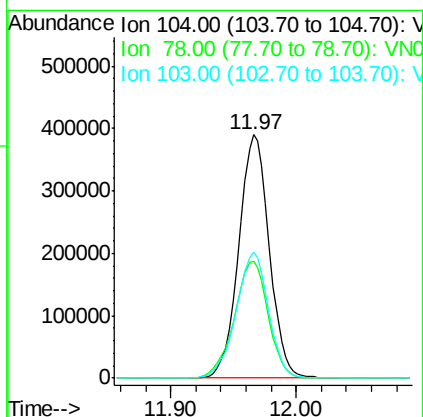
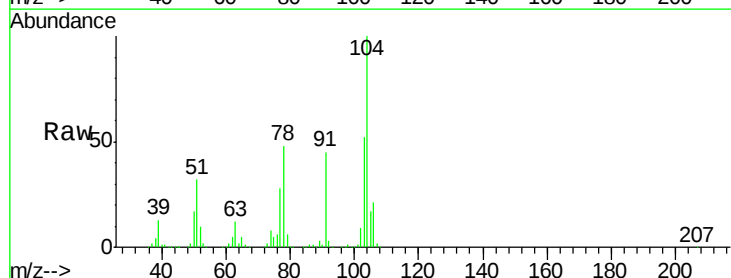
Instrument :  
MSVOA\_N  
ClientSampleId :

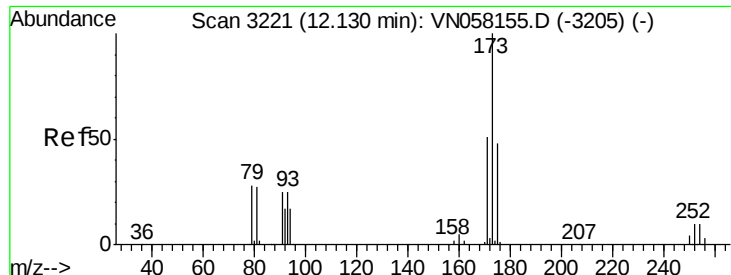
Tot Ion:106 Resp: 369059  
Ion Ratio Lower Upper  
106 100  
91 225.1 111.8 335.3



#70  
Styrene  
Concen: 50.764 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. -0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion:104 Resp: 657779  
Ion Ratio Lower Upper  
104 100  
78 53.3 41.8 62.8  
103 55.1 44.2 66.2





#71

Bromoform

Concen: 48.199 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampled :

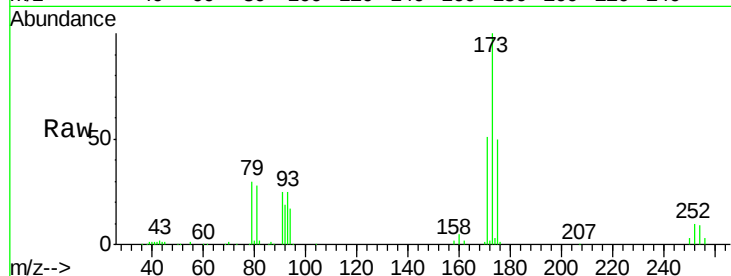
Tot Ion:173 Resp: 153119

Ion Ratio Lower Upper

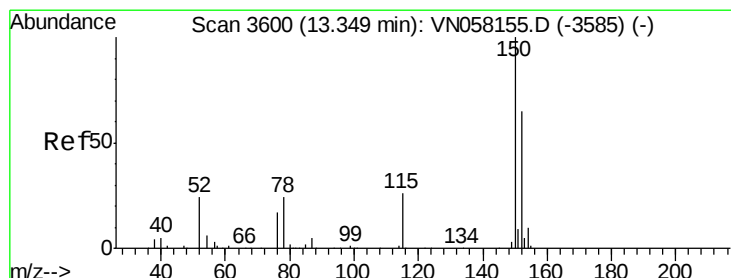
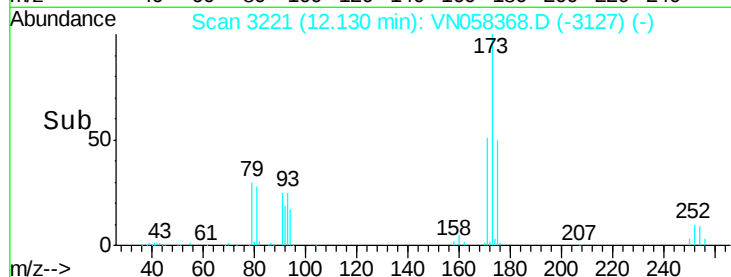
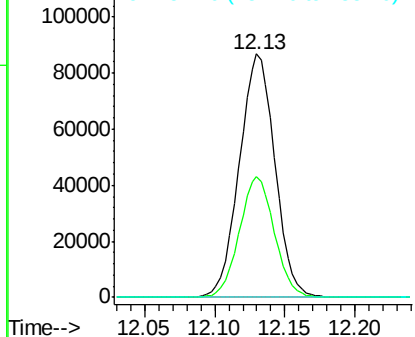
173 100

175 48.7 24.2 72.6

254 0.1 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

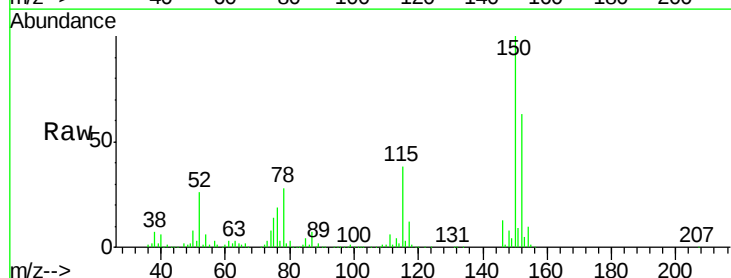
Tgt Ion:152 Resp: 338738

Ion Ratio Lower Upper

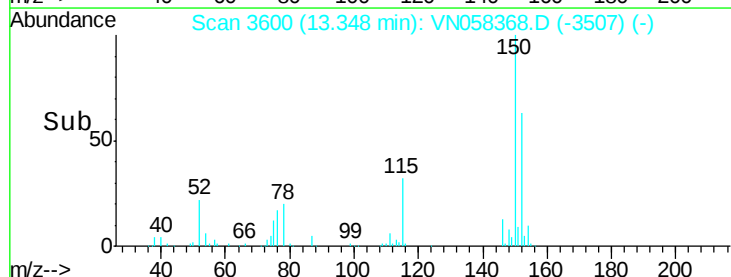
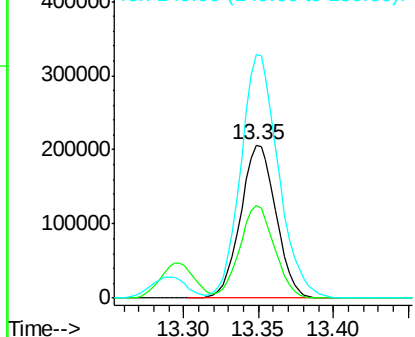
152 100

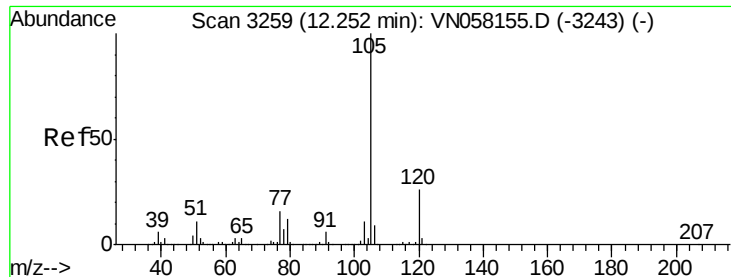
115 59.5 30.1 90.3

150 169.3 0.0 346.4



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: 50.179 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

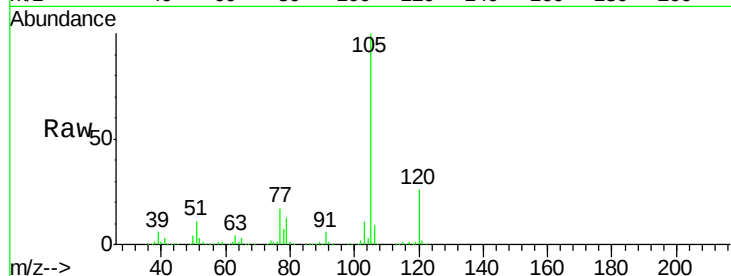
ClientSampleId :

Tot Ion:105 Resp: 1063945

Ion Ratio Lower Upper

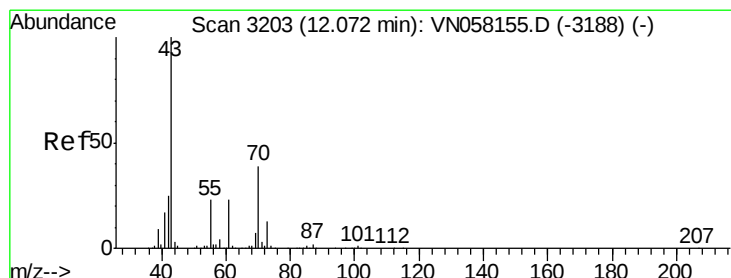
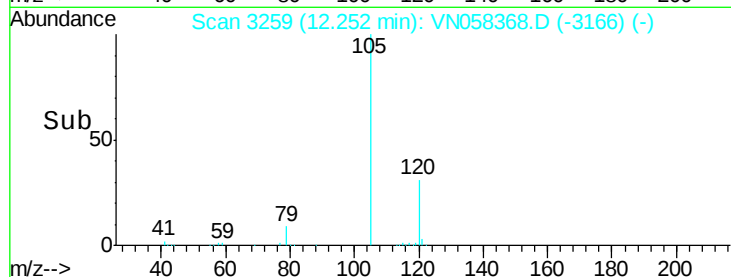
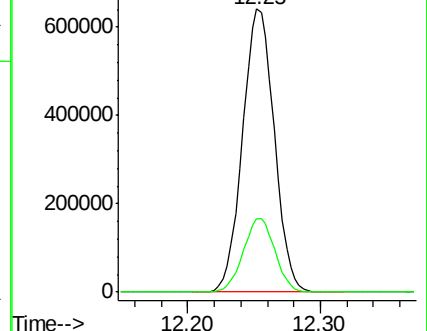
105 100

120 25.9 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 54.355 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Tgt Ion: 43 Resp: 482126

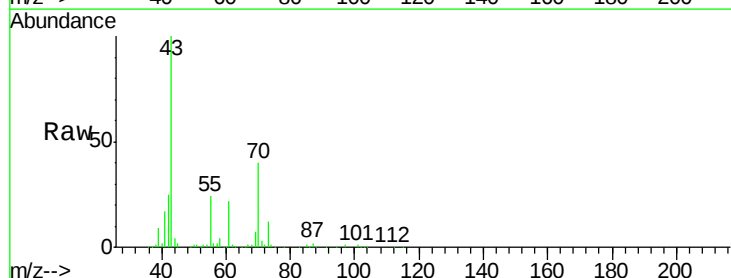
Ion Ratio Lower Upper

43 100

70 39.7 31.0 46.6

55 23.9 18.5 27.7

61 22.5 18.2 27.2

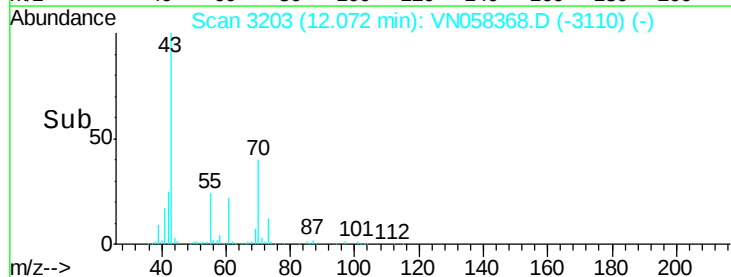
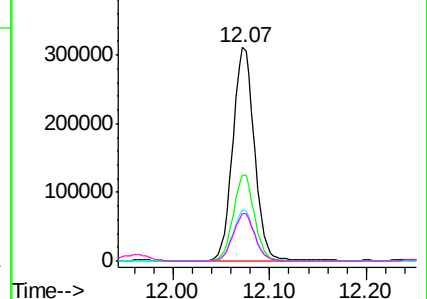


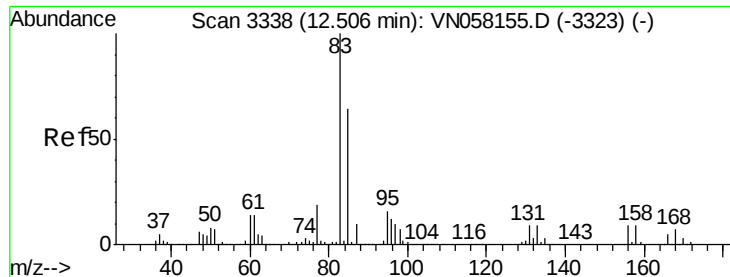
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 51.820 ug/l

RT: 12.51 min Scan# 3339

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

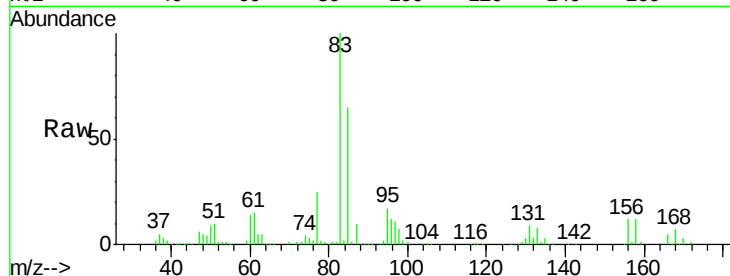
Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 83 Resp: 367939

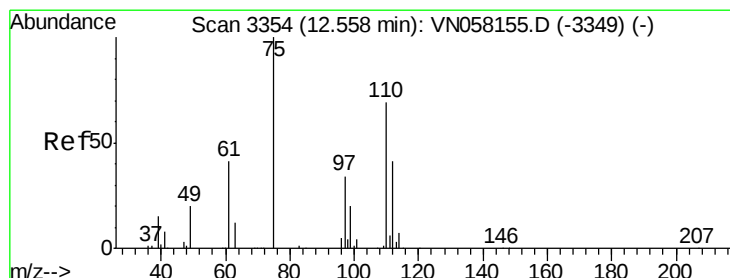
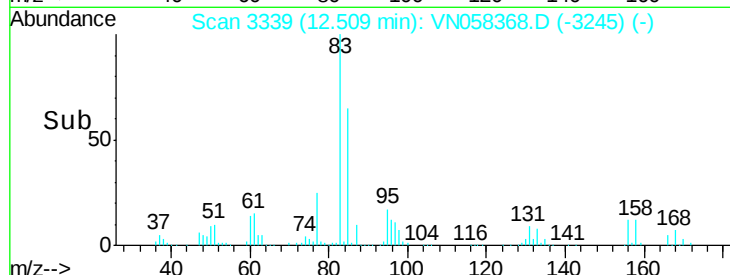
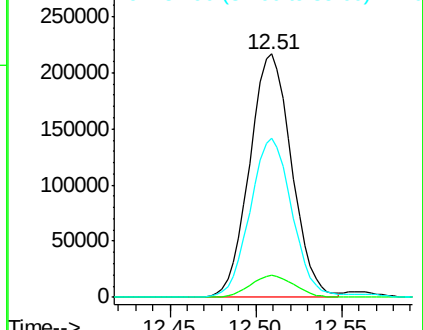
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 9.4   | 4.8   | 14.3  |
| 85  | 65.3  | 31.9  | 95.5  |



Abundance Ion 82.90 (82.60 to 83.60): VN058368.D (-3339) (-)

Ion 130.80 (130.50 to 131.50): VN058368.D (-3339) (-)

Ion 84.90 (84.60 to 85.60): VN058368.D (-3339) (-)



#76

1,2,3-Trichloropropane

Concen: 73.549 ug/l

RT: 12.56 min Scan# 3354

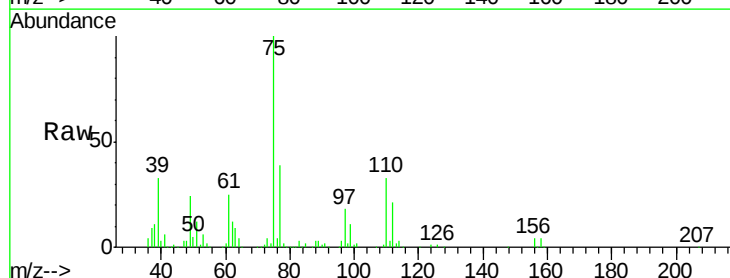
Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

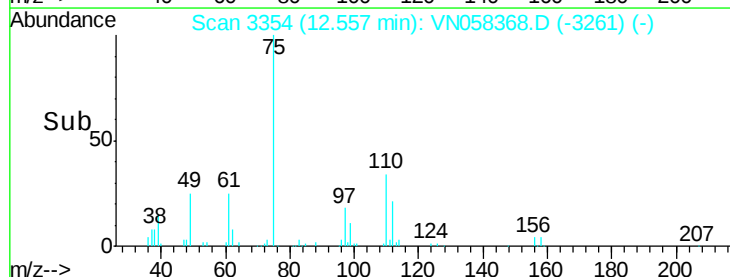
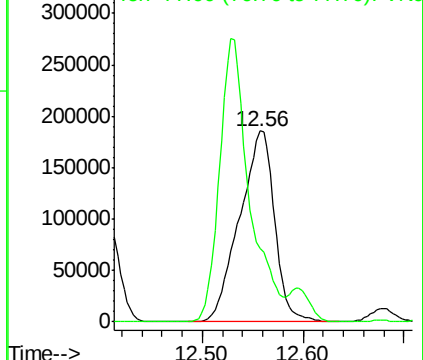
Tgt Ion: 75 Resp: 445879

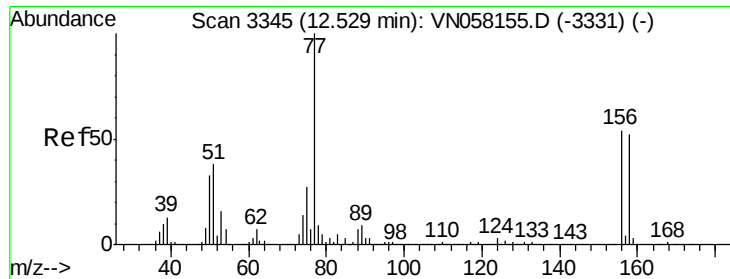
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 0.0   | 0.0   | 0.0   |



Abundance Ion 74.90 (74.60 to 75.60): VN058368.D (-3354) (-)

Ion 77.00 (76.70 to 77.70): VN058368.D (-3354) (-)





#77

Bromobenzene

Concen: 46.572 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

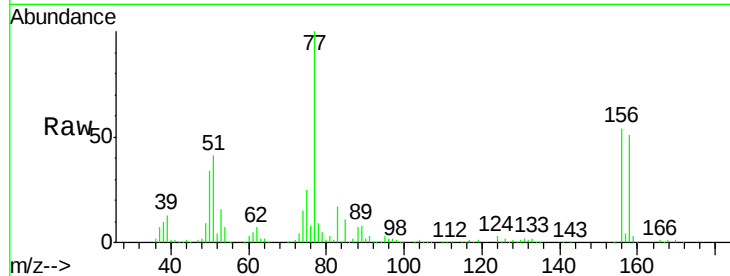
Tot Ion:156 Resp: 248389

Ion Ratio Lower Upper

156 100

77 229.4 111.7 335.1

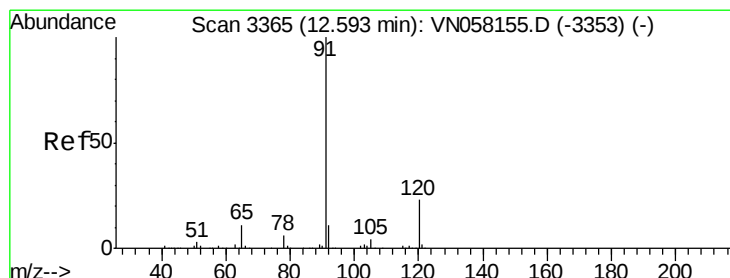
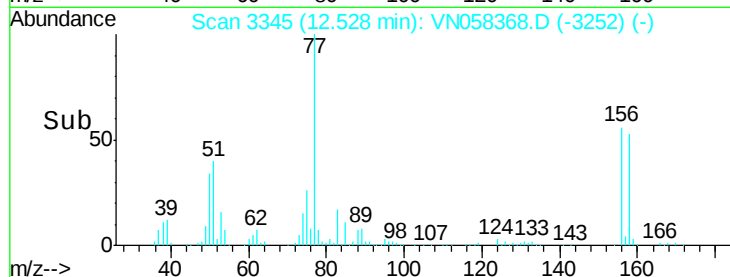
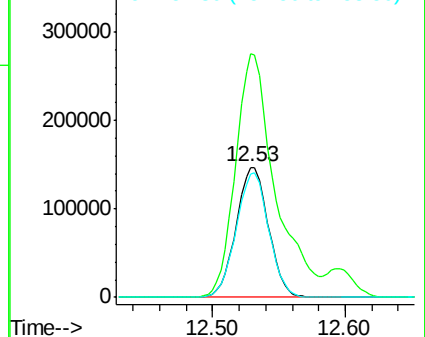
158 96.4 47.9 143.8



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: 51.846 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058368.D

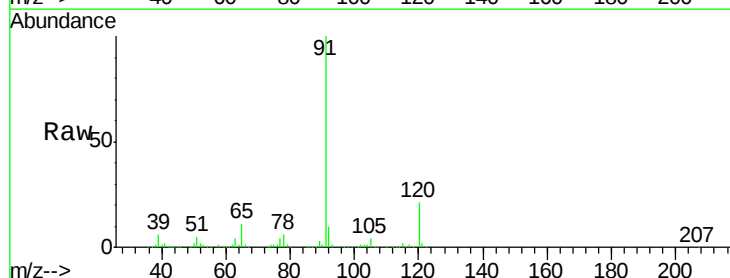
Acq: 25 Sep 2019 15:33

Tgt Ion: 91 Resp: 1249181

Ion Ratio Lower Upper

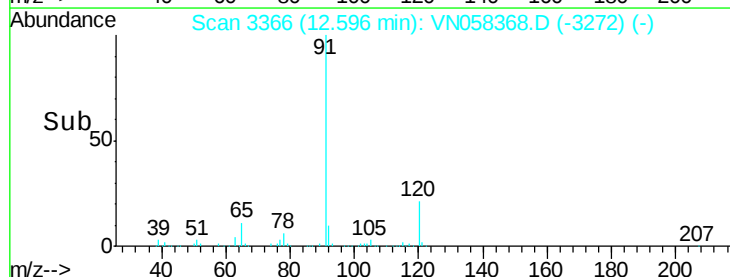
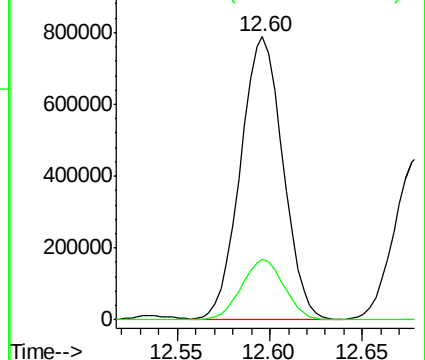
91 100

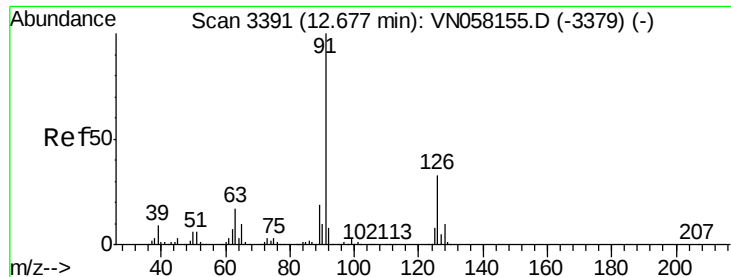
120 21.6 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.926 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

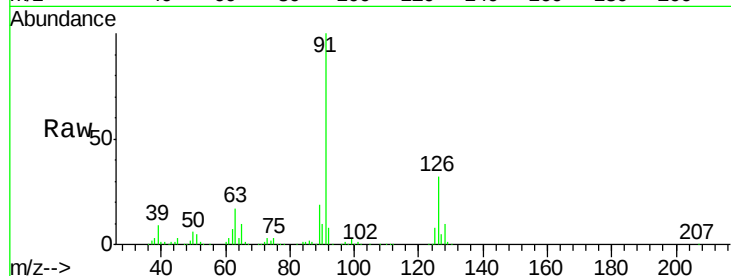
ClientSampled :

Tot Ion: 91 Resp: 751786

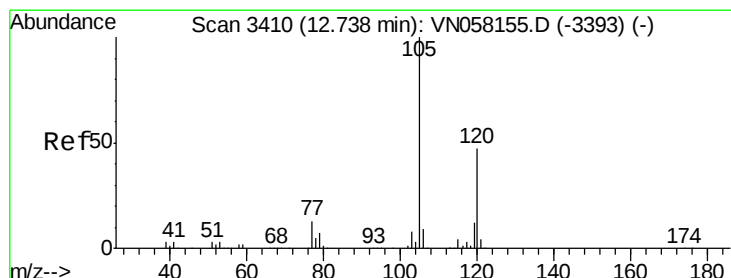
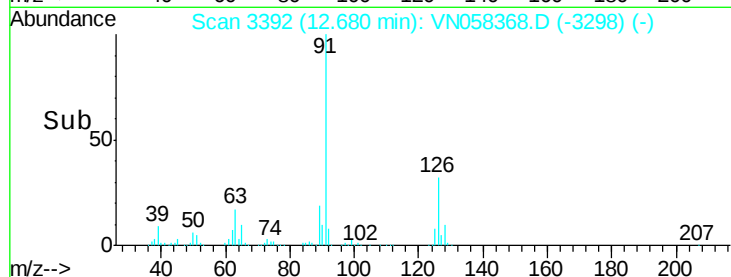
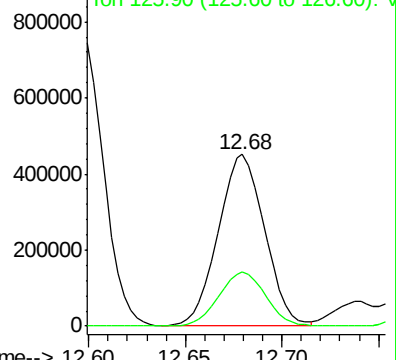
Ion Ratio Lower Upper

91 100

126 32.2 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VN058155.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 51.240 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN058368.D

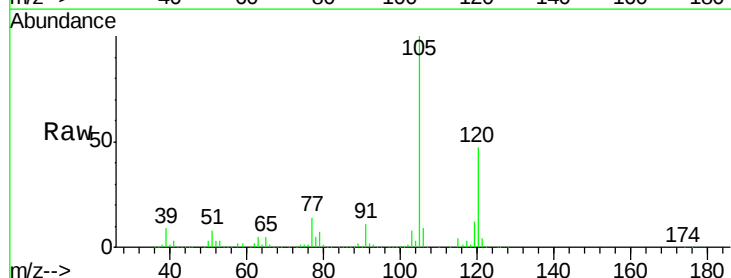
Acq: 25 Sep 2019 15:33

Tgt Ion: 105 Resp: 918708

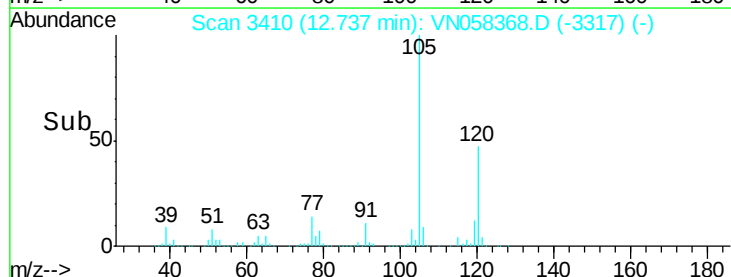
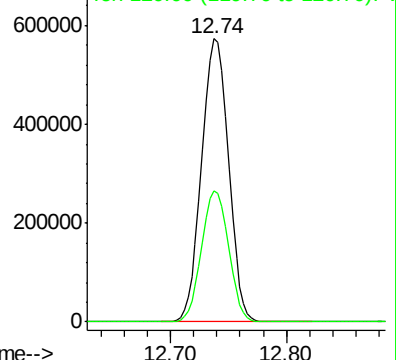
Ion Ratio Lower Upper

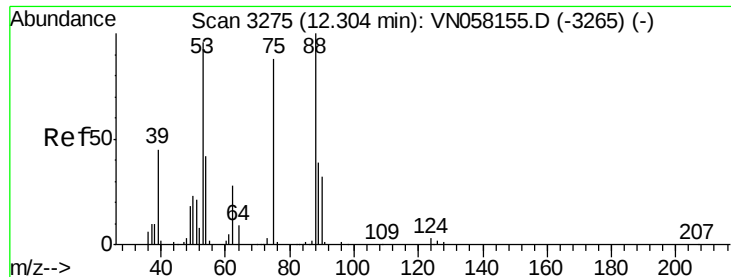
105 100

120 46.5 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN058155.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 48.714 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampled :

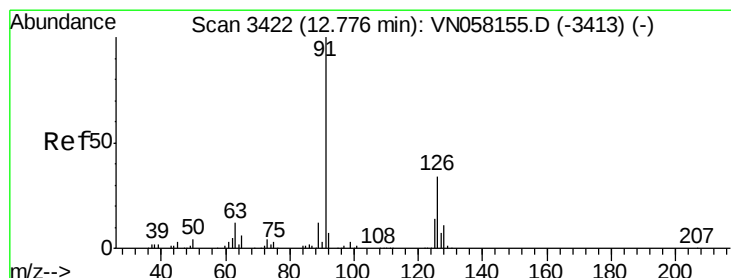
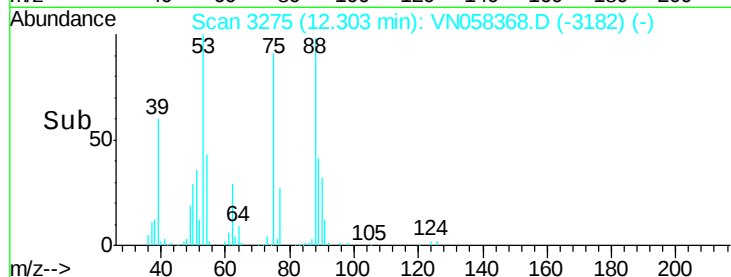
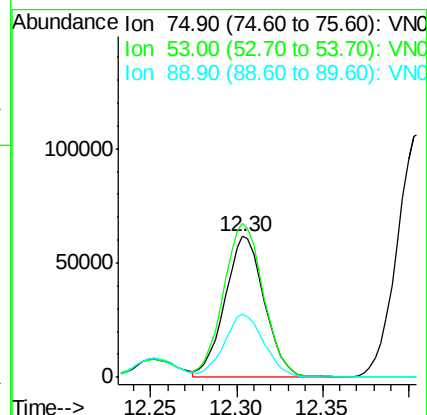
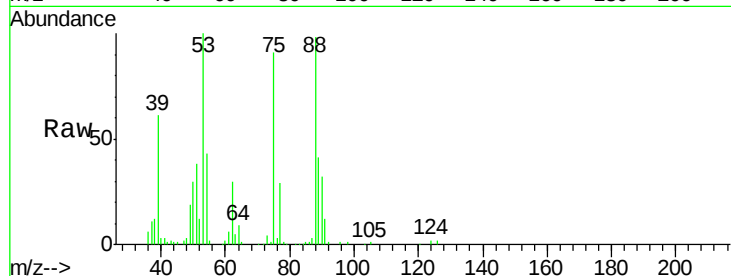
Tot Ion: 75 Resp: 98883

Ion Ratio Lower Upper

75 100

53 109.7 90.1 135.1

89 45.6 36.2 54.2



#82

4-Chlorotoluene

Concen: 49.510 ug/l

RT: 12.78 min Scan# 3423

Delta R.T. 0.00 min

Lab File: VN058368.D

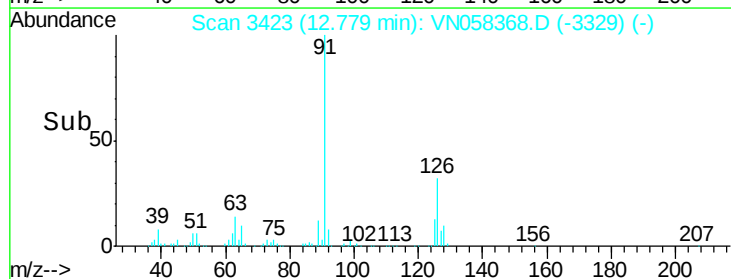
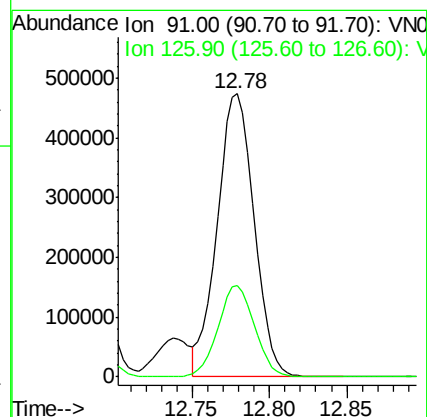
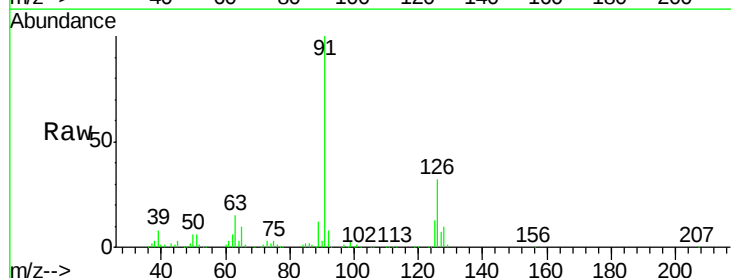
Acq: 25 Sep 2019 15:33

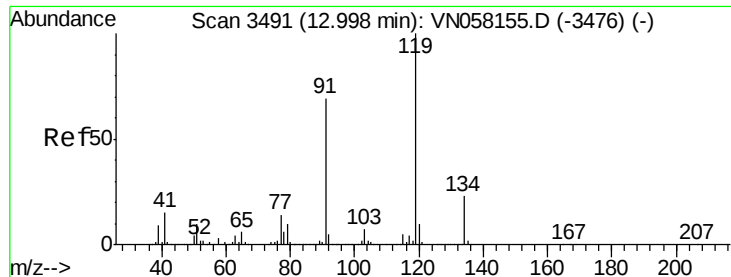
Tgt Ion: 91 Resp: 783662

Ion Ratio Lower Upper

91 100

126 32.0 15.7 47.1

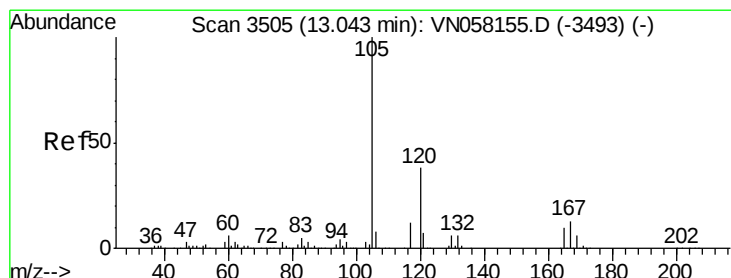
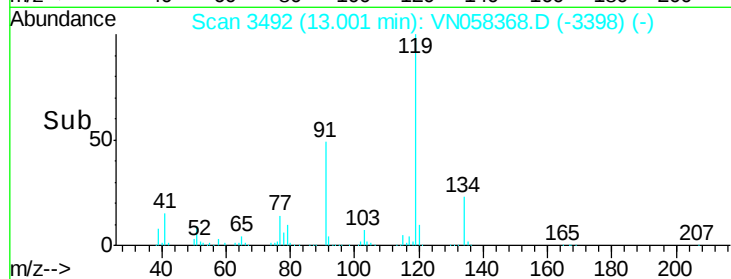
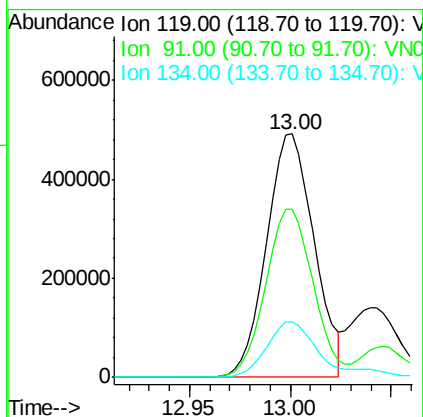
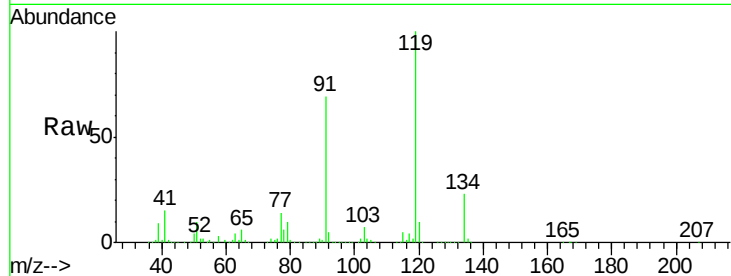




#83  
tert-Butylbenzene  
Concen: 50.405 ug/l  
RT: 13.00 min Scan# 3492  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

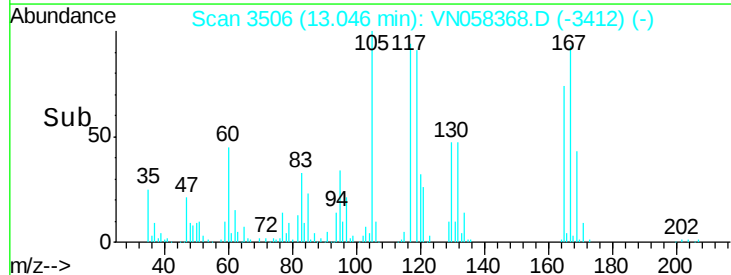
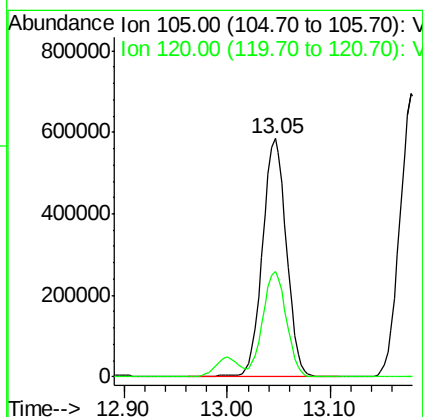
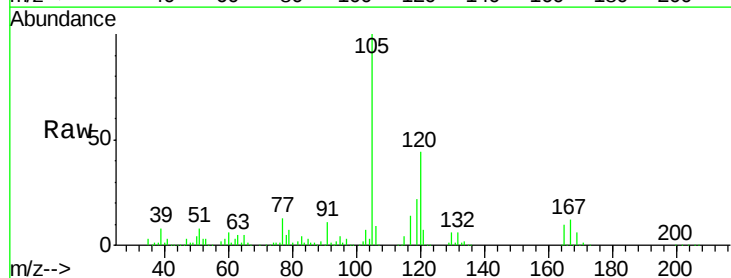
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:119 Resp: 805942  
Ion Ratio Lower Upper  
119 100  
91 68.7 33.8 101.3  
134 23.1 11.6 34.8



#84  
1,2,4-Trimethylbenzene  
Concen: 52.626 ug/l  
RT: 13.05 min Scan# 3506  
Delta R.T. 0.00 min  
Lab File: VN058368.D  
Acq: 25 Sep 2019 15:33

Tgt Ion:105 Resp: 938985  
Ion Ratio Lower Upper  
105 100  
120 43.8 22.1 66.5





#85

sec-Butylbenzene

Concen: 53.032 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

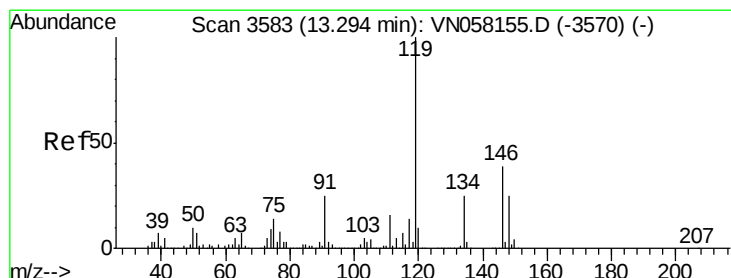
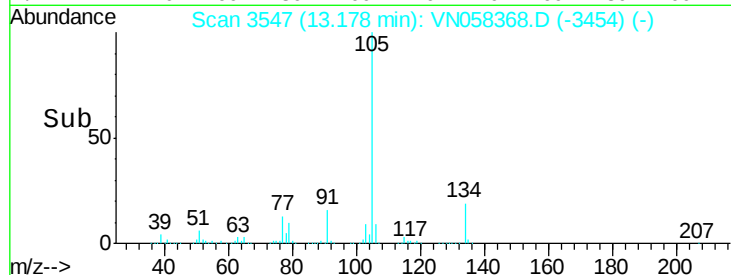
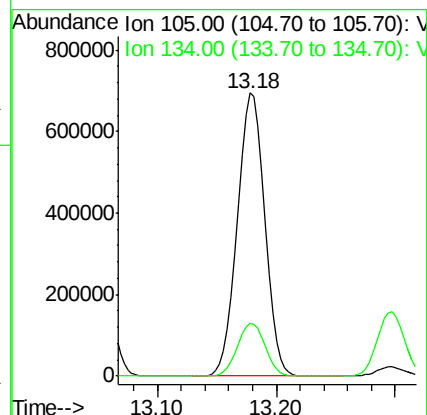
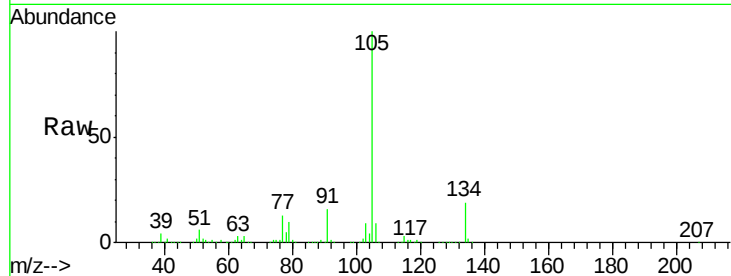
ClientSampled :

Tot Ion:105 Resp: 1108830

Ion Ratio Lower Upper

105 100

134 18.9 9.5 28.5



#86

p-Isopropyltoluene

Concen: 53.267 ug/l

RT: 13.30 min Scan# 3584

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

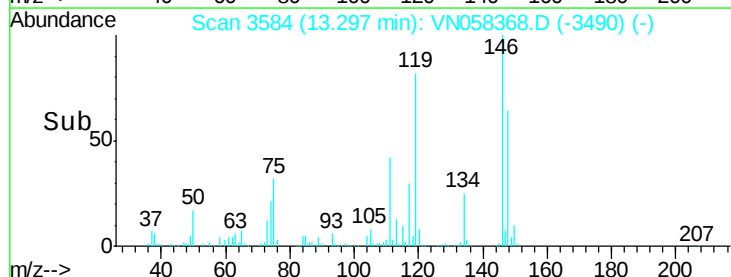
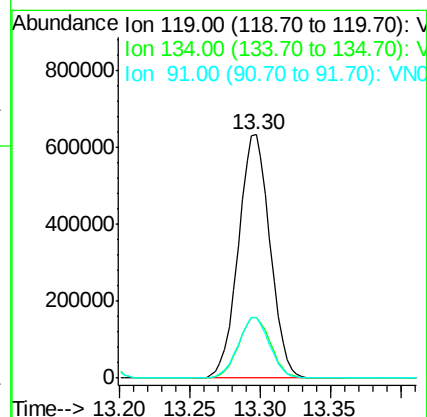
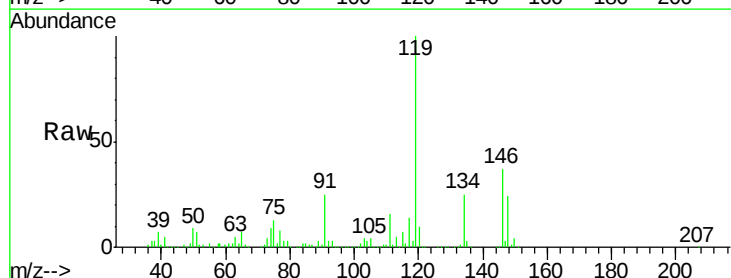
Tgt Ion:119 Resp: 990136

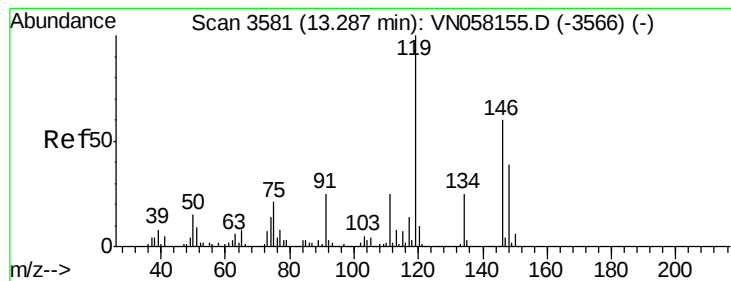
Ion Ratio Lower Upper

119 100

134 25.4 12.7 38.0

91 24.8 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 48.978 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

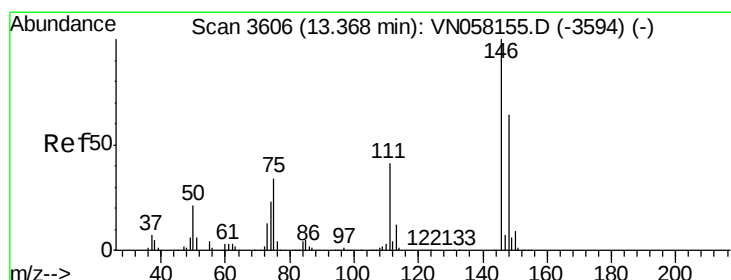
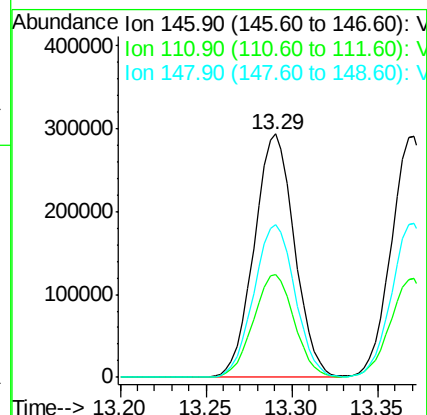
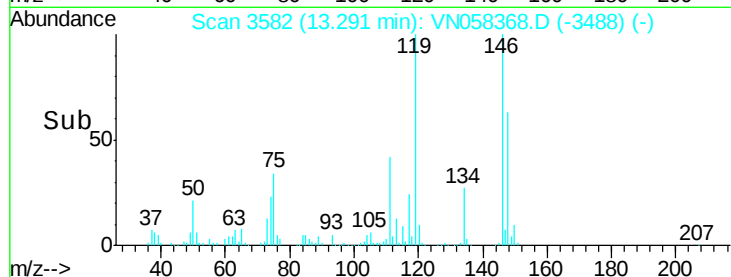
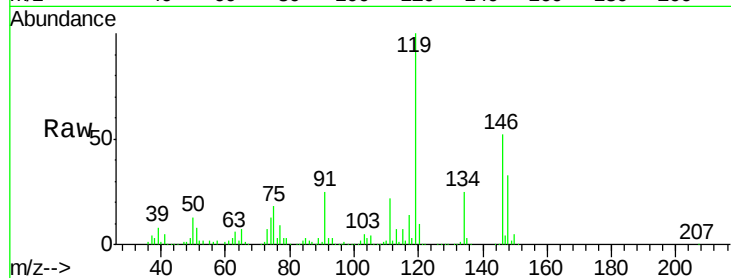
Tot Ion:146 Resp: 477116

Ion Ratio Lower Upper

146 100

111 42.9 20.9 62.8

148 64.2 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 48.384 ug/l

RT: 13.37 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

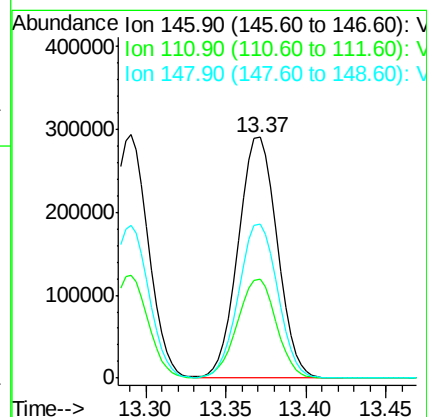
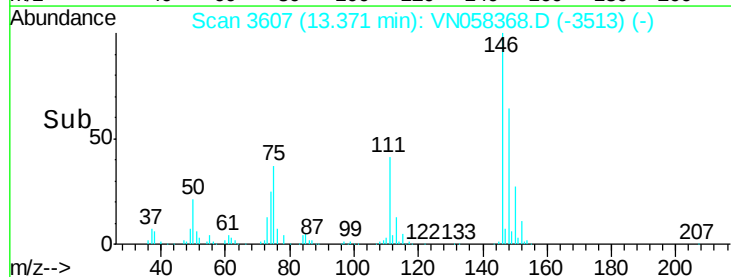
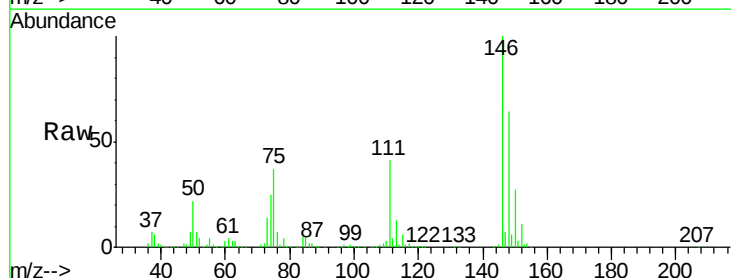
Tgt Ion:146 Resp: 481187

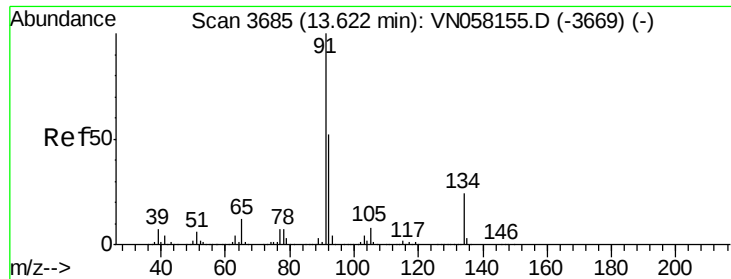
Ion Ratio Lower Upper

146 100

111 41.0 20.5 61.5

148 64.2 31.9 95.5





#89

n-Butylbenzene

Concen: 52.334 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

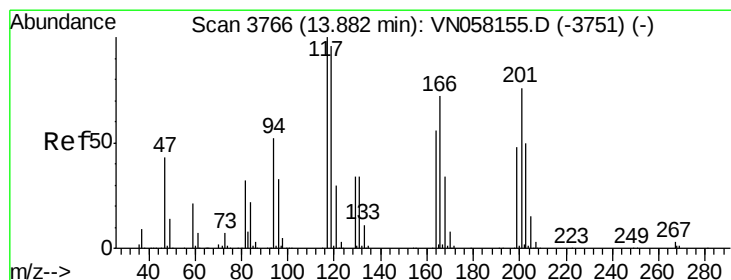
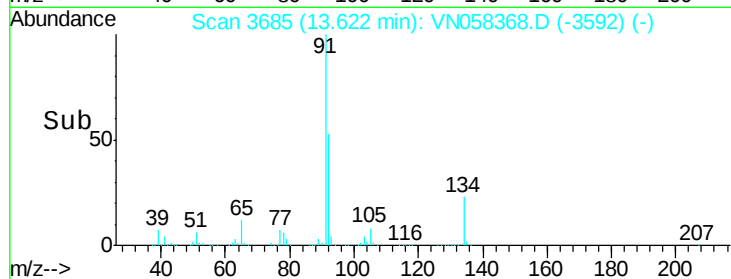
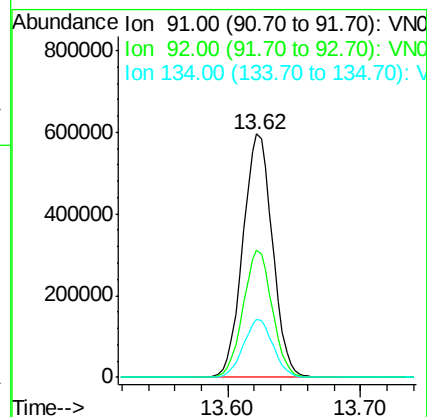
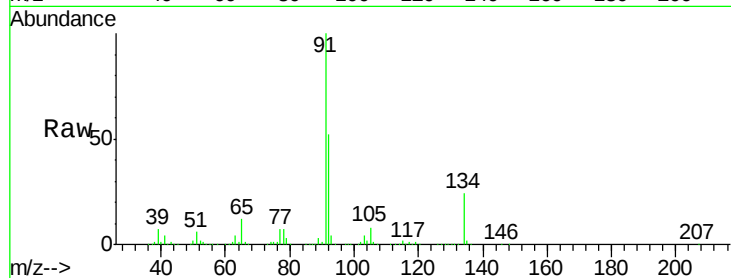
Tot Ion: 91 Resp: 922282

Ion Ratio Lower Upper

91 100

92 51.5 25.7 77.0

134 24.0 11.8 35.4



#90

Hexachloroethane

Concen: 48.579 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058368.D

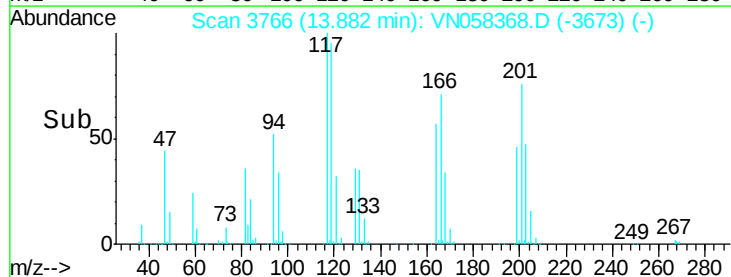
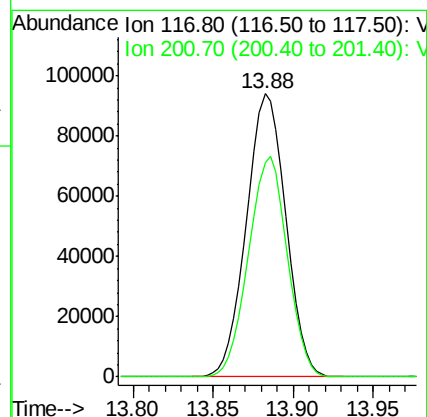
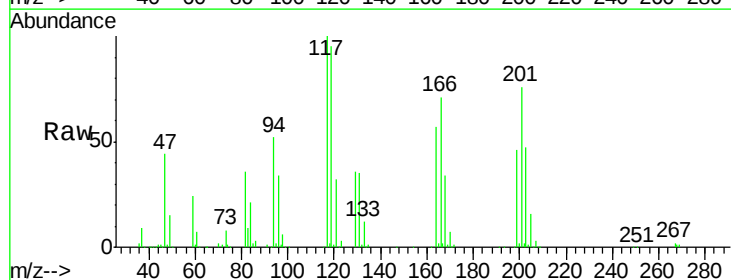
Acq: 25 Sep 2019 15:33

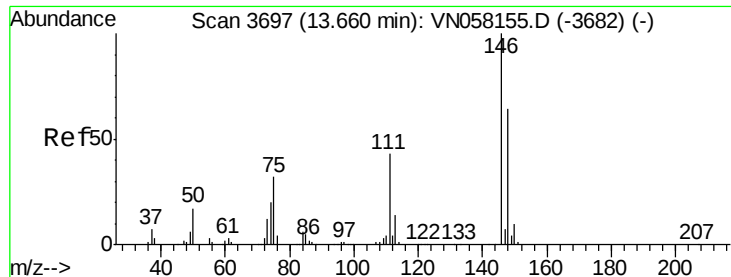
Tgt Ion: 117 Resp: 158067

Ion Ratio Lower Upper

117 100

201 76.4 37.5 112.5





#91

1,2-Dichlorobenzene

Concen: 50.014 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

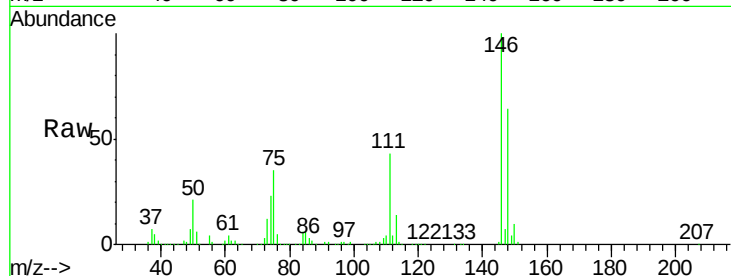
Tot Ion:146 Resp: 488721

Ion Ratio Lower Upper

146 100

111 42.8 21.1 63.1

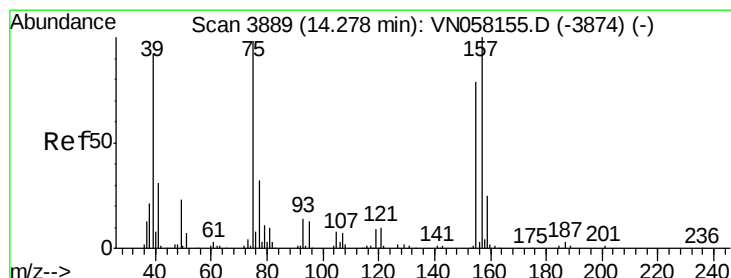
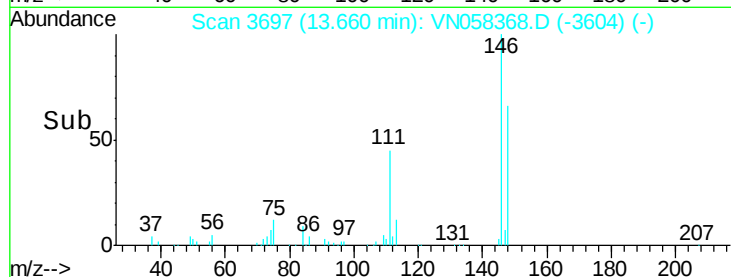
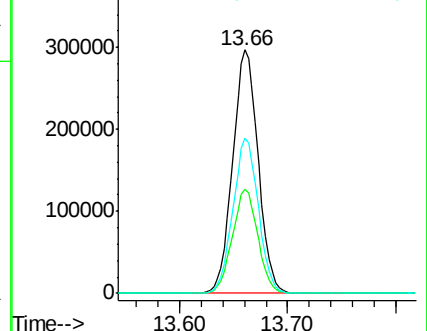
148 63.6 31.8 95.4



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: 55.446 ug/l

RT: 14.28 min Scan# 3890

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

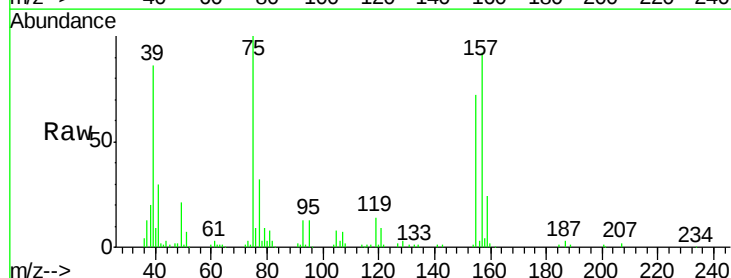
Tgt Ion: 75 Resp: 70876

Ion Ratio Lower Upper

75 100

155 73.9 38.3 114.8

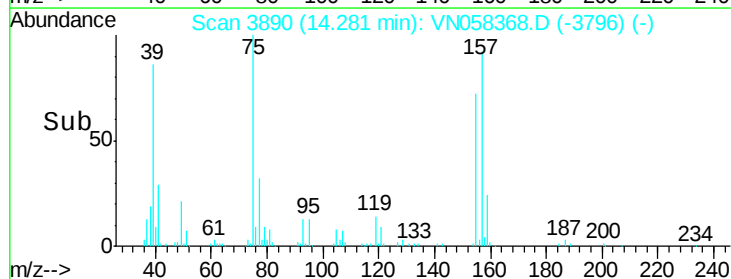
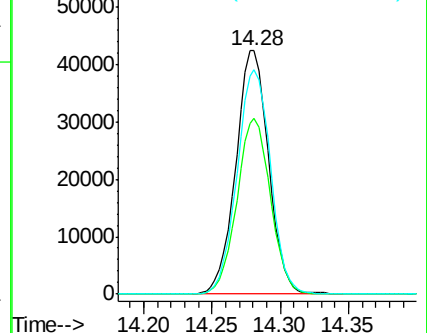
157 93.8 48.0 144.0



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

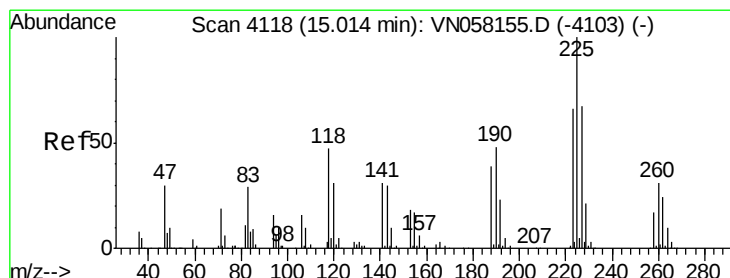
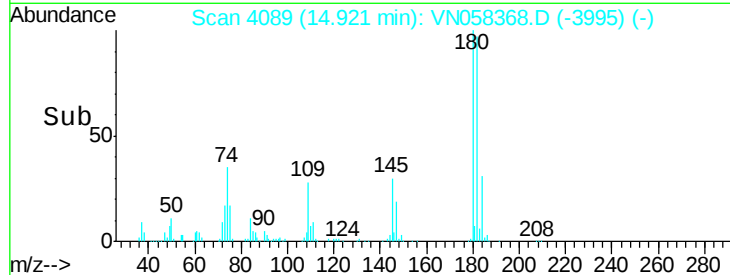
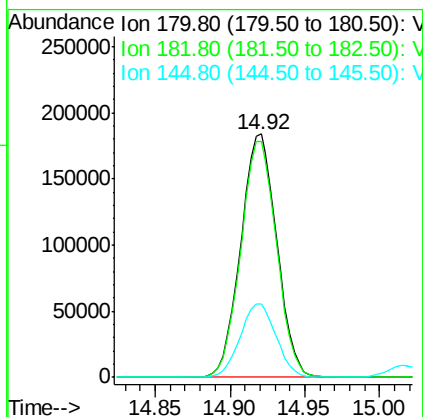
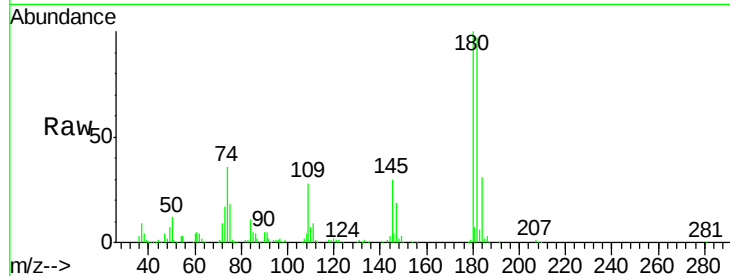




#93  
 1,2,4-Trichlorobenzene  
 Concen: 49.362 ug/l  
 RT: 14.92 min Scan# 4089  
 Delta R.T. 0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

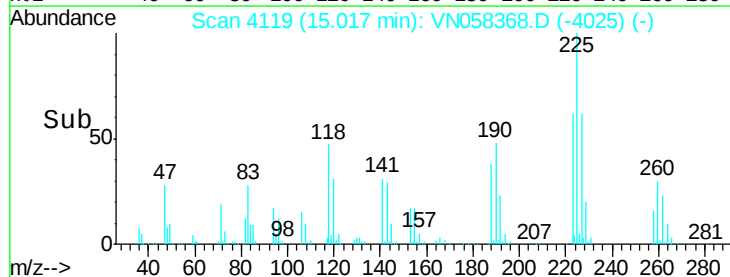
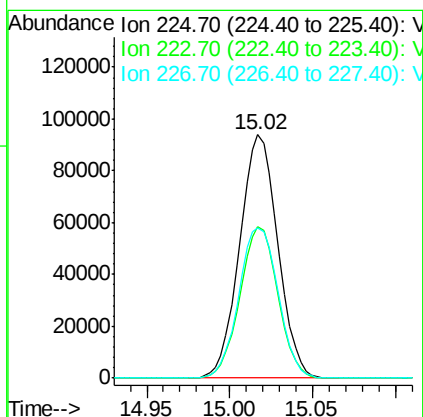
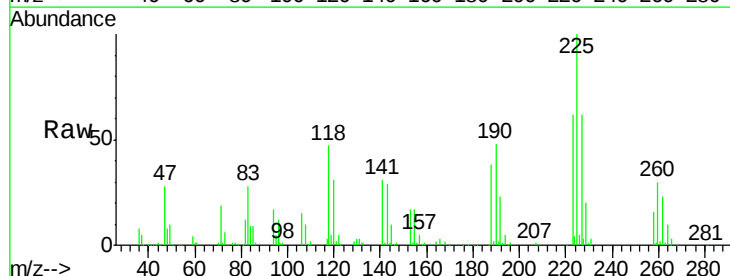
Instrument :  
 MSVOA\_N  
 ClientSampled :

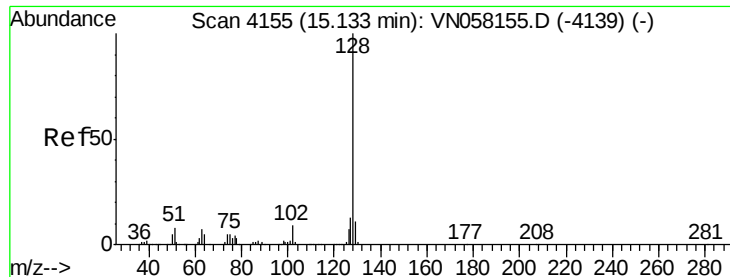
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.5  | 47.8  | 143.3 |
| 145     | 30.2  | 15.4  | 46.4  |



#94  
 Hexachlorobutadiene  
 Concen: 49.726 ug/l  
 RT: 15.02 min Scan# 4119  
 Delta R.T. 0.00 min  
 Lab File: VN058368.D  
 Acq: 25 Sep 2019 15:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.7  | 32.6  | 97.7  |
| 227     | 63.8  | 33.0  | 99.0  |





#95

Naphthalene

Concen: 54.185 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

Instrument :

MSVOA\_N

ClientSampleId :

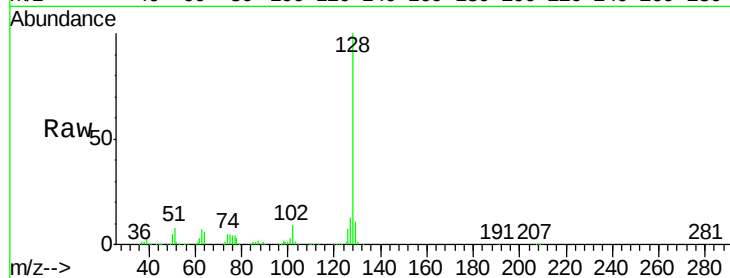
Tot Ion:128 Resp: 876726

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

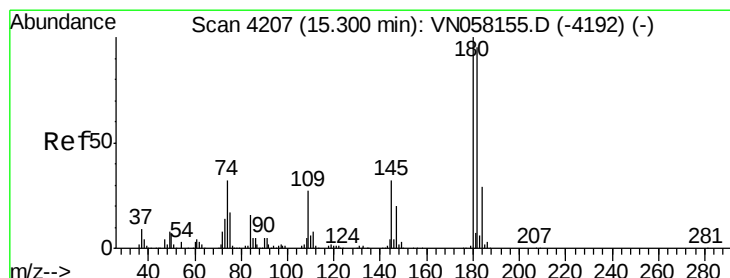
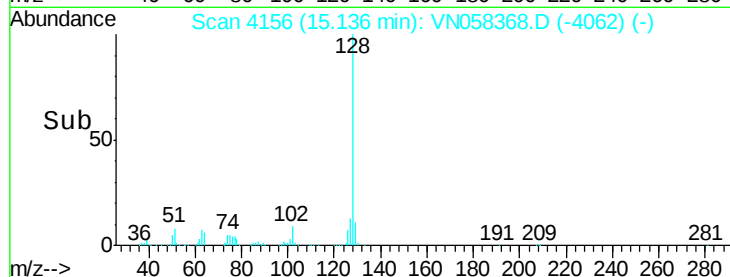
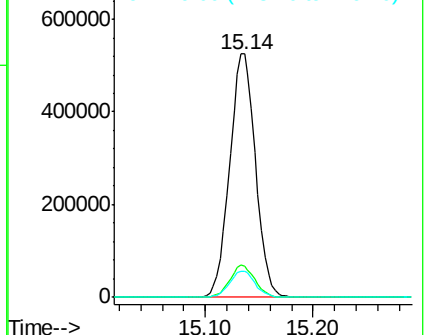
129 10.7 8.6 12.8



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: 49.734 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058368.D

Acq: 25 Sep 2019 15:33

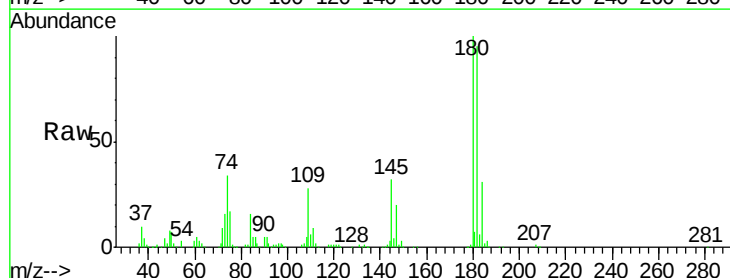
Tgt Ion:180 Resp: 293482

Ion Ratio Lower Upper

180 100

182 95.5 47.4 142.2

145 32.3 16.1 48.2



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

