

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN082319\  
 Data File : VN057463.D  
 Acq On : 23 Aug 2019 9:37  
 Operator : JC/SP  
 Sample : VSTDICCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Quant Time: Aug 23 22:56:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N082319W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 23 22:53:43 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 66780    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 392757   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.40 | 117  | 321641   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.01   | 65    | 197913   | 41.67    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 138.90% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 150926   | 31.35    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 104.50% |
| 63) Toluene-d8            | 10.08  | 98    | 500738   | 33.66    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 112.20% |

## Target Compounds

|                               |      |     |        |         | Qvalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.84 | 85  | 71869  | 20.984  | ug/l 100   |
| 3) Chloromethane              | 2.05 | 50  | 107269 | 25.285  | ug/l 100   |
| 4) Vinyl Chloride             | 2.17 | 62  | 141582 | 31.918  | ug/l 100   |
| 5) Bromomethane               | 2.55 | 94  | 90022  | 27.719  | ug/l 100   |
| 6) Chloroethane               | 2.69 | 64  | 92290  | 30.788  | ug/l 100   |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 220335 | 31.287  | ug/l 100   |
| 8) Diethyl Ether              | 3.39 | 74  | 84194  | 31.966  | ug/l 100   |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73 | 101 | 124711 | 30.218  | ug/l 100   |
| 10) 1,1-Dichloroethene        | 3.71 | 96  | 116556 | 28.852  | ug/l 100   |
| 11) Methyl Iodide             | 3.92 | 142 | 89288  | 15.507  | ug/l 100   |
| 12) Methyl Acetate            | 4.30 | 43  | 112353 | 25.288  | ug/l 100   |
| 13) Acrolein                  | 3.58 | 56  | 76324  | 163.514 | ug/l 100   |
| 14) Acrylonitrile             | 4.97 | 53  | 202382 | 117.518 | ug/l 100   |
| 15) Acetone                   | 3.80 | 58  | 108098 | 180.857 | ug/l 100   |
| 16) Carbon Disulfide          | 4.02 | 76  | 203927 | 20.528  | ug/l 100   |
| 17) Allyl chloride            | 4.29 | 41  | 157740 | 27.170  | ug/l 100   |
| 18) Methylene Chloride        | 4.52 | 84  | 85014  | 20.548  | ug/l 100   |
| 19) trans-1,2-Dichloroethene  | 5.01 | 96  | 77845  | 19.963  | ug/l 100   |
| 20) Diisopropyl ether         | 5.93 | 45  | 341616 | 28.120  | ug/l 100   |
| 21) 1,1-Dichloroethane        | 5.82 | 63  | 177719 | 24.799  | ug/l 100   |
| 22) cis-1,2-Dichloroethene    | 6.81 | 96  | 98130  | 21.387  | ug/l 100   |
| 23) tert-Butyl Alcohol        | 4.78 | 59  | 72903  | 118.061 | ug/l 100   |
| 24) Methyl tert-Butyl Ether   | 5.02 | 73  | 269665 | 23.389  | ug/l 100   |
| 25) Chloroform                | 7.36 | 83  | 173154 | 23.487  | ug/l 100   |
| 26) Cyclohexane               | 7.63 | 56  | 155379 | 25.749  | ug/l # 100 |
| 29) 1,1-Dichloropropene       | 7.78 | 75  | 128737 | 22.032  | ug/l 100   |
| 30) 2-Butanone                | 6.82 | 43  | 321679 | 131.874 | ug/l 100   |
| 31) 2,2-Dichloropropane       | 6.80 | 77  | 149556 | 23.118  | ug/l 100   |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 148254 | 21.669  | ug/l 100   |
| 33) Carbon Tetrachloride      | 7.76 | 117 | 121704 | 20.230  | ug/l 100   |
| 34) Benzene                   | 8.03 | 78  | 384335 | 21.786  | ug/l 100   |
| 35) Methacrylonitrile         | 7.16 | 41  | 66509  | 20.935  | ug/l 100   |
| 36) 1,2-Dichloroethane        | 8.11 | 62  | 147806 | 24.684  | ug/l 100   |
| 37) Trichloroethene           | 8.82 | 130 | 88139  | 17.976  | ug/l 100   |
| 38) Methylcyclohexane         | 9.07 | 83  | 143133 | 20.997  | ug/l 100   |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 108990 | 23.609  | ug/l 100   |
| 40) Dibromomethane            | 9.20 | 93  | 65999  | 21.950  | ug/l 100   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN082319\  
 Data File : VN057463.D  
 Acq On : 23 Aug 2019 9:37  
 Operator : JC/SP  
 Sample : VSTDICCC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Quant Time: Aug 23 22:56:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N082319W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Aug 23 22:53:43 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 9.39  | 83   | 136222   | 22.229  | ug/l   | 100      |
| 42) Vinyl Acetate              | 5.87  | 43   | 1393321  | 134.843 | ug/l   | 100      |
| 43) Ethyl Acetate              | 6.91  | 43   | 121738   | 24.779  | ug/l   | 100      |
| 44) Isopropyl Acetate          | 8.16  | 43   | 231237   | 26.284  | ug/l # | 92       |
| 45) 1,4-Dioxane                | 9.20  | 88   | 27436    | 364.506 | ug/l   | 100      |
| 46) Methyl methacrylate        | 9.19  | 41   | 108240   | 27.062  | ug/l   | 100      |
| 47) n-amyl Acetate             | 12.07 | 43   | 173038   | 26.129  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 140973   | 21.424  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 159501   | 21.776  | ug/l   | 100      |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 87053    | 20.260  | ug/l   | 100      |
| 51) Ethyl methacrylate         | 10.43 | 69   | 138700   | 21.702  | ug/l   | 99       |
| 52) 1,3-Dichloropropane        | 10.70 | 76   | 159006   | 22.138  | ug/l   | 100      |
| 53) Dibromochloromethane       | 10.90 | 129  | 90402    | 18.618  | ug/l   | 100      |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 85573    | 19.165  | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 149444   | 100.074 | ug/l   | 100      |
| 56) Bromoform                  | 12.13 | 173  | 50486    | 14.288  | ug/l # | 100      |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 646063   | 139.644 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 449750   | 136.605 | ug/l   | 100      |
| 61) Tetrachloroethene          | 10.63 | 164  | 75730    | 16.993  | ug/l   | 100      |
| 62) Toluene                    | 10.15 | 91   | 396553   | 22.012  | ug/l   | 100      |
| 64) Chlorobenzene              | 11.43 | 112  | 211123   | 19.203  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 80454    | 18.997  | ug/l   | 100      |
| 66) Ethyl Benzene              | 11.51 | 91   | 416474   | 21.266  | ug/l   | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 286646   | 39.797  | ug/l   | 100      |
| 68) o-Xylene                   | 11.95 | 106  | 145047   | 20.471  | ug/l   | 100      |
| 69) Styrene                    | 11.96 | 104  | 217019   | 19.203  | ug/l   | 100      |
| 70) Isopropylbenzene           | 12.25 | 105  | 379378   | 20.063  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 109655   | 20.935  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane     | 12.55 | 75   | 140352   | 31.258  | ug/l   | 62       |
| 73) Bromobenzene               | 12.53 | 156  | 74273    | 15.489  | ug/l   | 100      |
| 74) n-propylbenzene            | 12.59 | 91   | 415678   | 20.733  | ug/l   | 100      |
| 75) 2-Chlorotoluene            | 12.67 | 91   | 251777   | 20.476  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 309871   | 19.758  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 34488    | 20.115  | ug/l   | 100      |
| 78) 4-Chlorotoluene            | 12.77 | 91   | 222665   | 19.303  | ug/l   | 100      |
| 79) tert-butylbenzene          | 12.99 | 119  | 263810   | 19.022  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 287672   | 19.436  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 13.17 | 105  | 341044   | 19.606  | ug/l   | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 275658   | 17.930  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene        | 13.28 | 146  | 109601   | 15.488  | ug/l   | 100      |
| 84) 1,4-Dichlorobenzene        | 13.37 | 146  | 102871   | 15.415  | ug/l   | 100      |
| 85) n-Butylbenzene             | 13.62 | 91   | 225578   | 19.522  | ug/l   | 100      |
| 86) Hexachloroethane           | 13.88 | 117  | 57967    | 19.401  | ug/l   | 100      |
| 87) 1,2-Dichlorobenzene        | 13.66 | 146  | 111326   | 16.545  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 16630    | 22.495  | ug/l   | 100      |
| 89) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 27897    | 11.557  | ug/l   | 100      |
| 90) Hexachlorobutadiene        | 15.01 | 225  | 35337    | 12.387  | ug/l   | 100      |
| 91) Naphthalene                | 15.13 | 128  | 102241   | 17.847  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 31215    | 13.329  | ug/l   | 100      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN082319\  
Data File : VN057463.D  
Acq On : 23 Aug 2019 9:37  
Operator : JC/SP  
Sample : VSTDICCC020  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

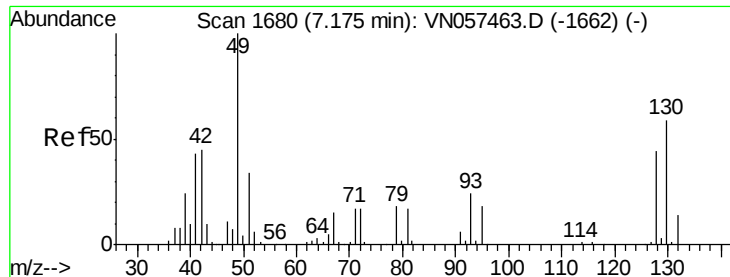
Quant Time: Aug 23 22:56:57 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\624N082319W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Aug 23 22:53:43 2019  
Response via : Initial Calibration

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

-----

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

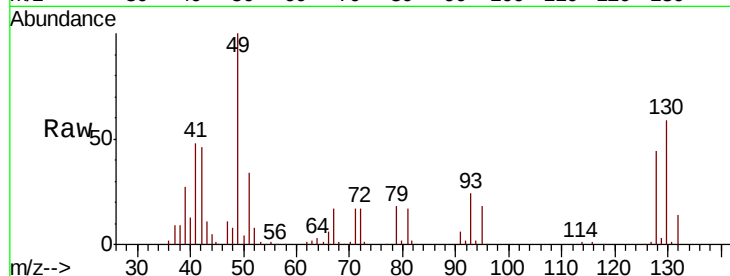
Tgt Ion:128 Resp: 66780

Ion Ratio Lower Upper

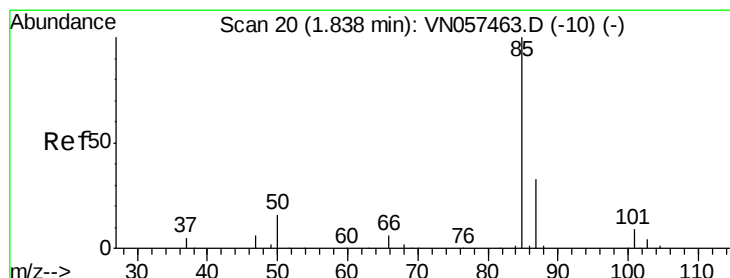
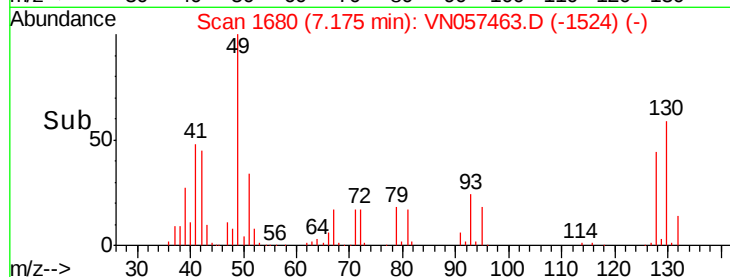
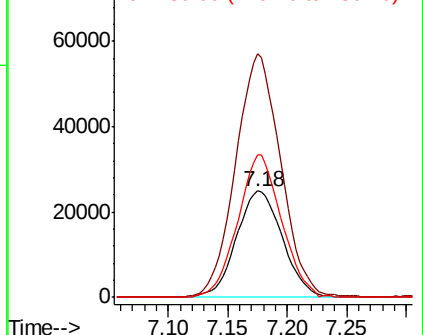
128 100

49 224.2 0.0 560.5

130 126.9 0.0 317.3



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



#2

Dichlorodifluoromethane

Concen: 20.984 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN057463.D

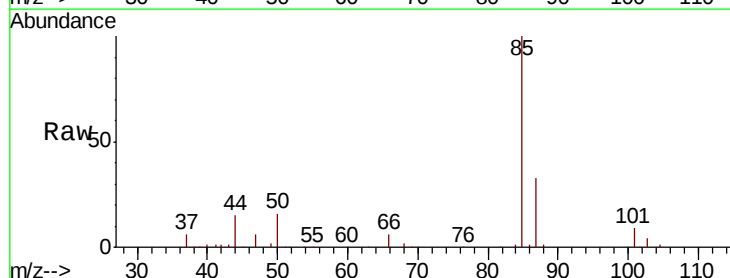
Acq: 23 Aug 2019 9:37

Tgt Ion: 85 Resp: 71869

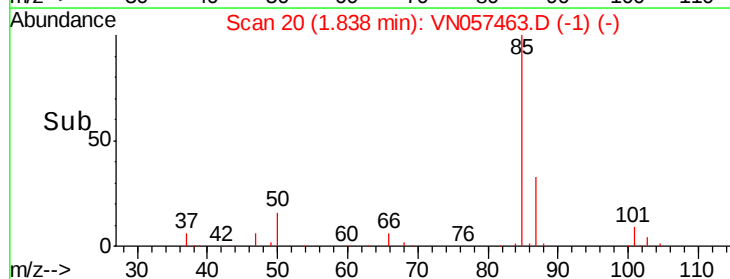
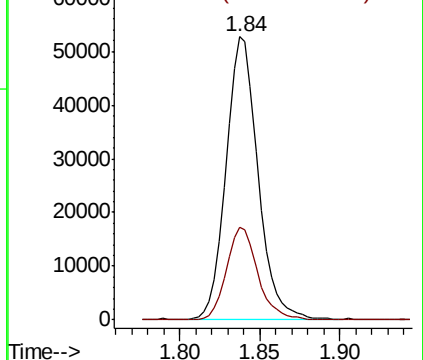
Ion Ratio Lower Upper

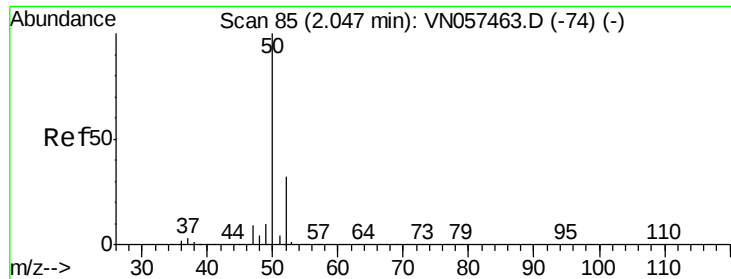
85 100

87 32.7 16.4 49.1



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





#3

Chloromethane

Concen: 25.285 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

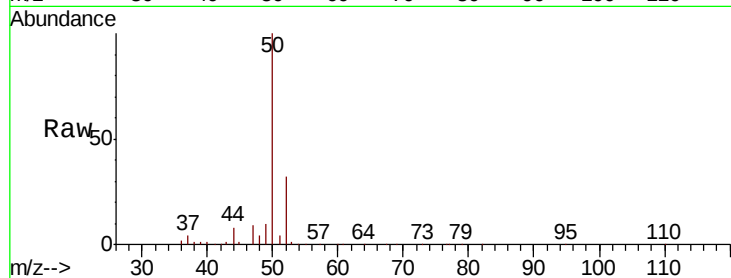
VSTDICCC020

Tgt Ion: 50 Resp: 107269

Ion Ratio Lower Upper

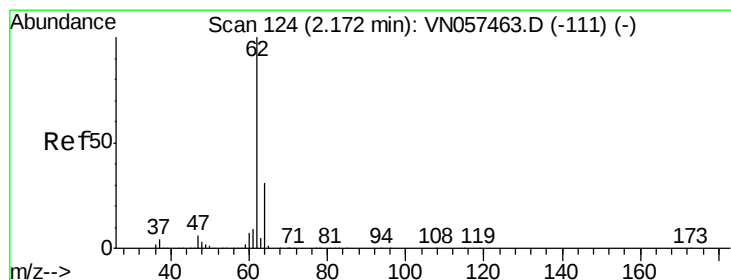
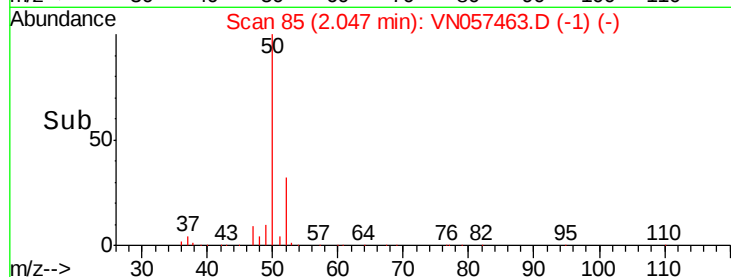
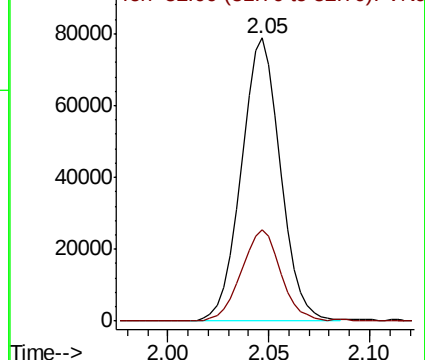
50 100

52 32.2 25.8 38.6



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 31.918 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN057463.D

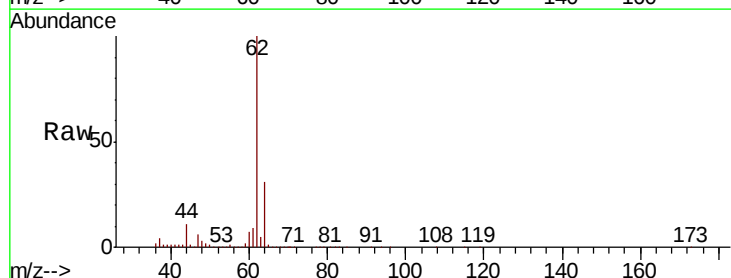
Acq: 23 Aug 2019 9:37

Tgt Ion: 62 Resp: 141582

Ion Ratio Lower Upper

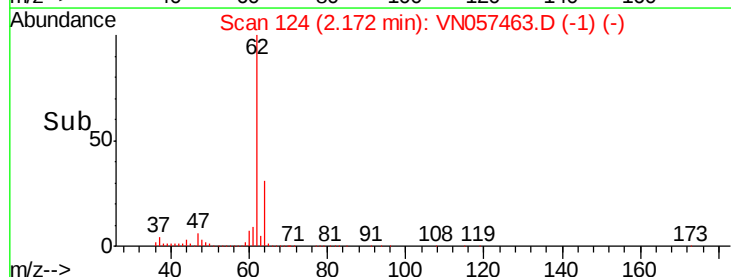
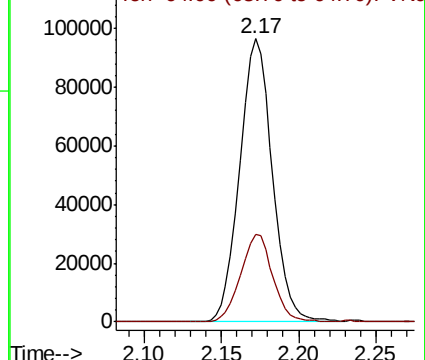
62 100

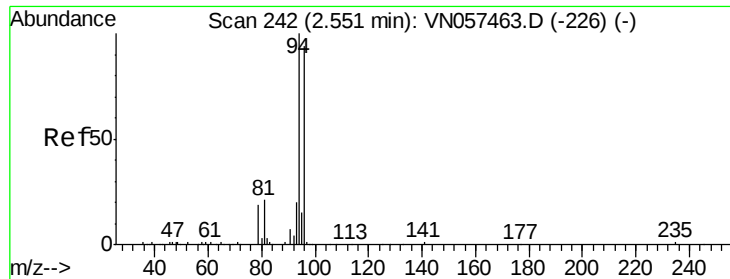
64 31.0 24.8 37.2



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 27.719 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

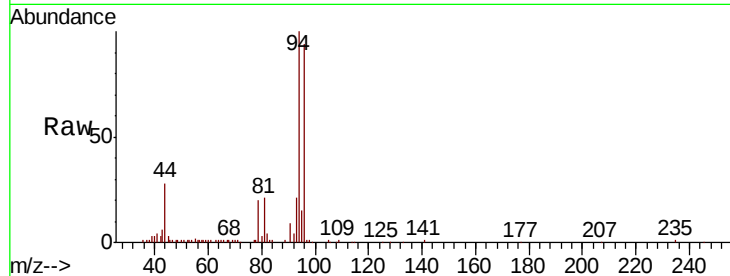
VSTDICCC020

Tgt Ion: 94 Resp: 90022

Ion Ratio Lower Upper

94 100

96 93.5 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

50000

40000

30000

20000

10000

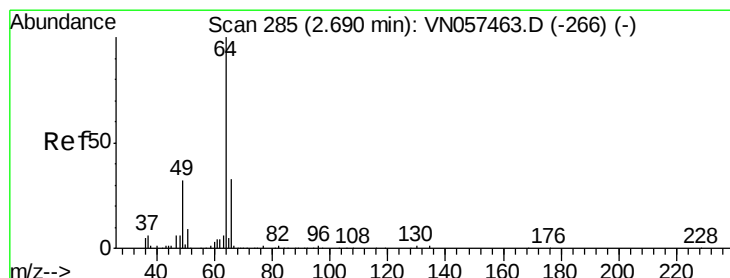
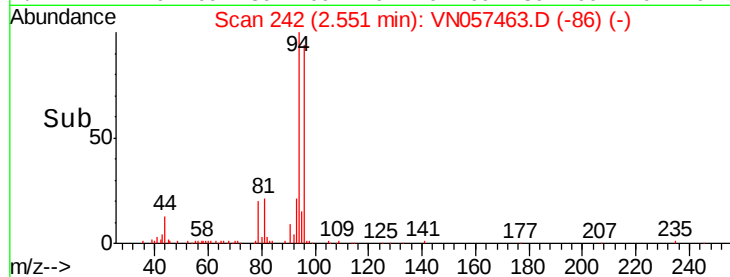
0

2.55

2.50

2.60

Time-->



#6

Chloroethane

Concen: 30.788 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN057463.D

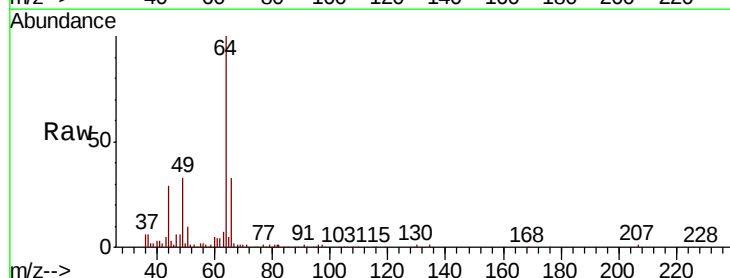
Acq: 23 Aug 2019 9:37

Tgt Ion: 64 Resp: 92290

Ion Ratio Lower Upper

64 100

66 32.9 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

50000

40000

30000

20000

10000

0

2.69

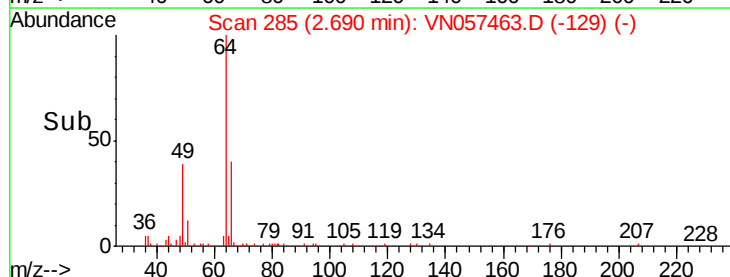
2.60

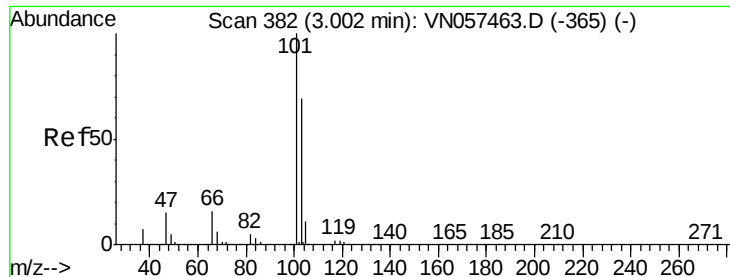
2.65

2.70

2.75

Time-->



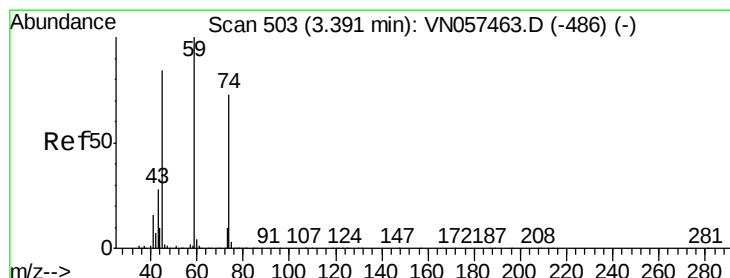
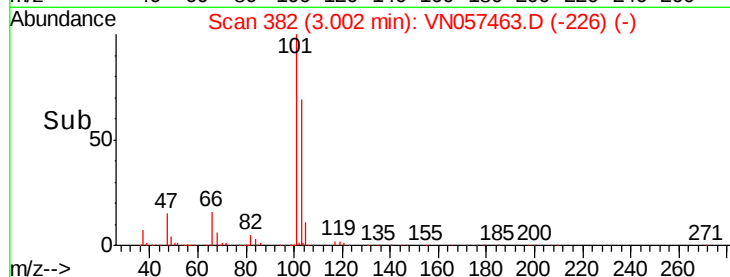
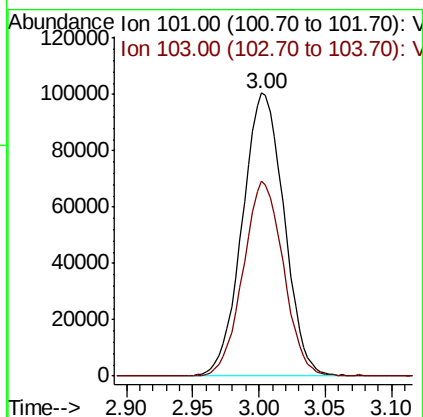
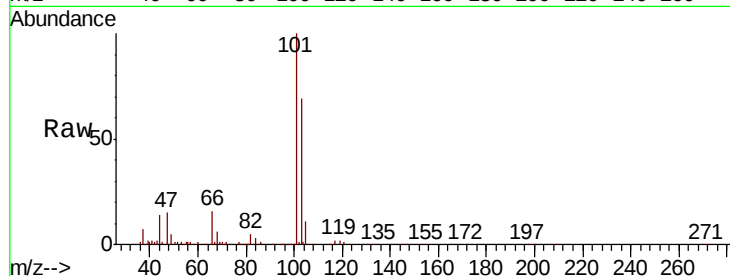


#7

Trichlorofluoromethane  
Concen: 31.287 ug/l  
RT: 3.00 min Scan# 382  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

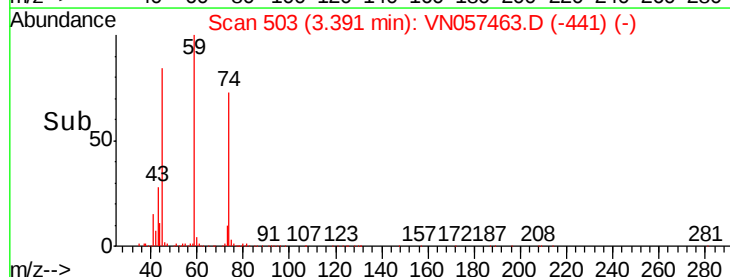
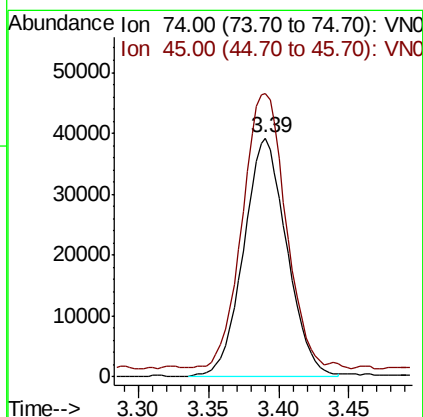
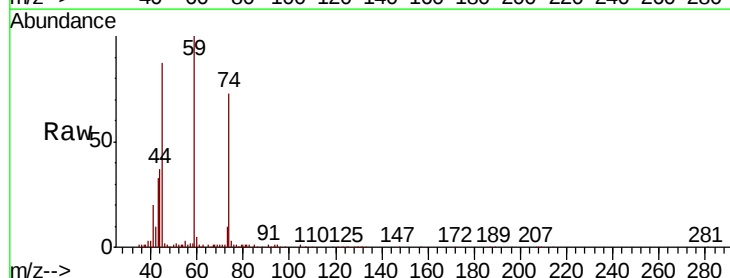
Tgt Ion:101 Resp: 220335  
Ion Ratio Lower Upper  
101 100  
103 68.7 55.0 82.4

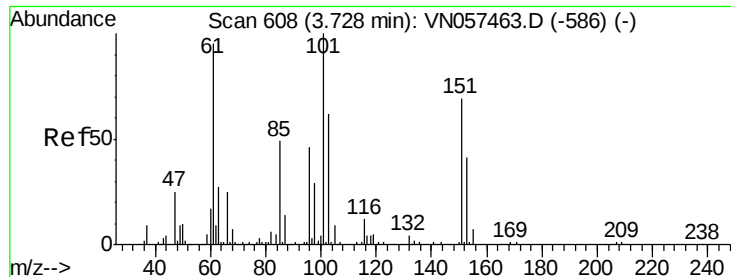


#8

Diethyl Ether  
Concen: 31.966 ug/l  
RT: 3.39 min Scan# 503  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 74 Resp: 84194  
Ion Ratio Lower Upper  
74 100  
45 115.7 23.2 209.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 30.218 ug/l

RT: 3.73 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

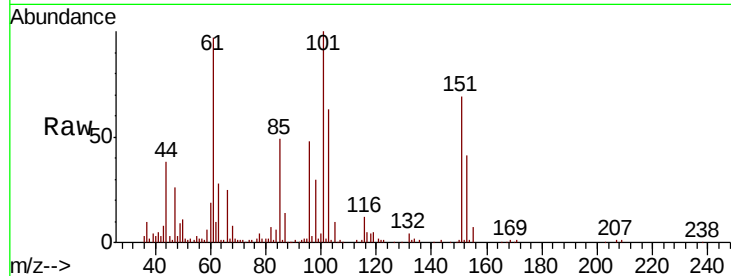
Tgt Ion:101 Resp: 124711

Ion Ratio Lower Upper

101 100

85 50.8 0.0 101.6

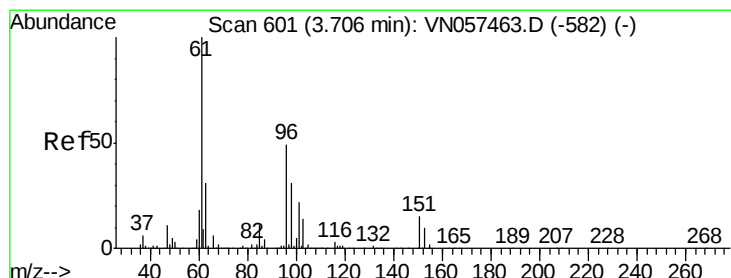
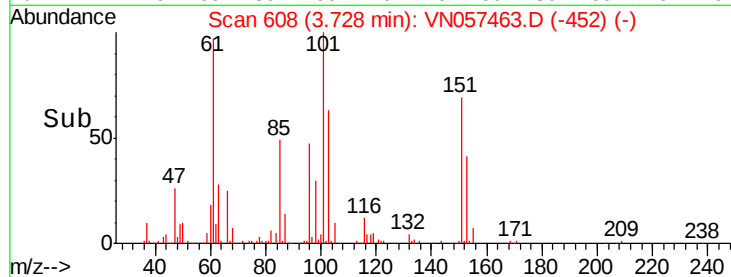
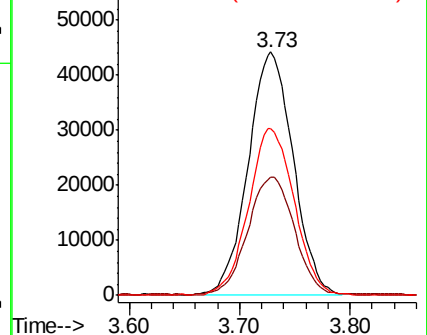
151 69.7 0.0 139.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 28.852 ug/l

RT: 3.71 min Scan# 601

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

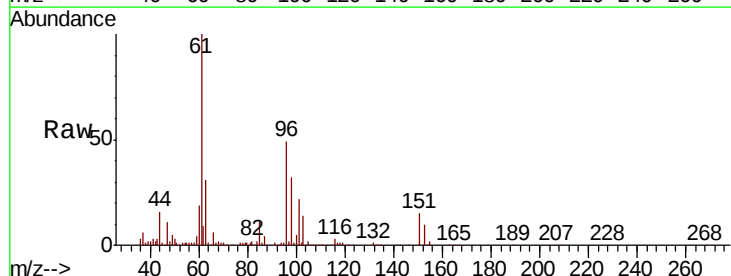
Tgt Ion: 96 Resp: 116556

Ion Ratio Lower Upper

96 100

61 203.3 162.6 244.0

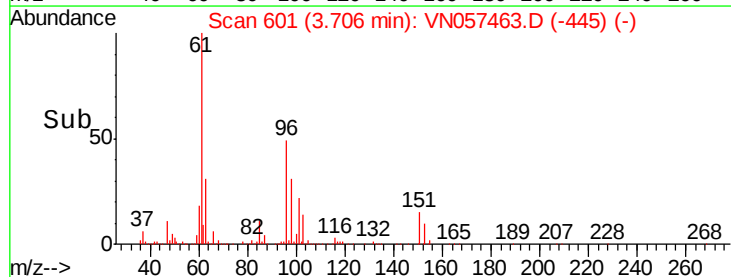
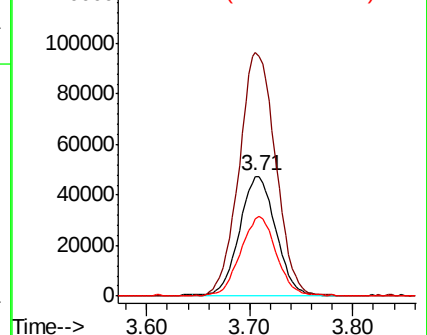
98 63.9 51.1 76.7

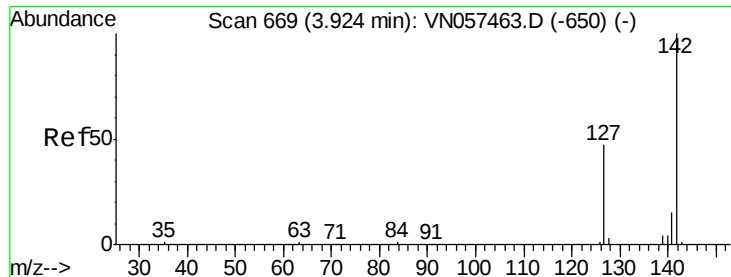


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

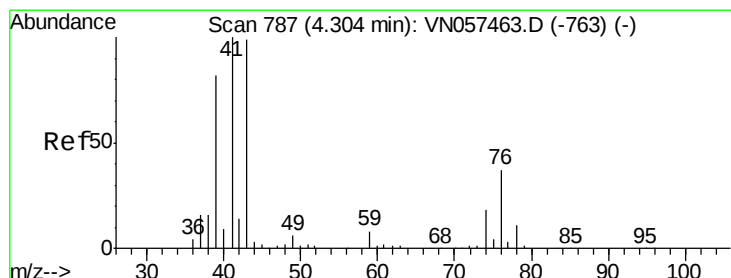
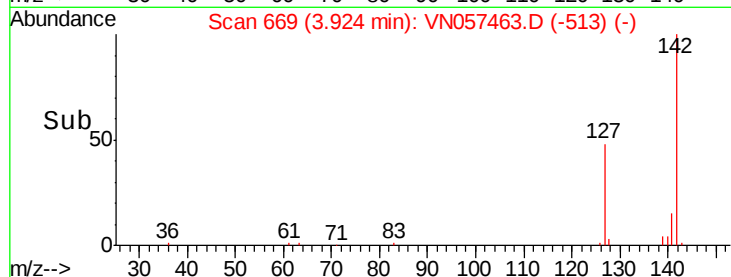
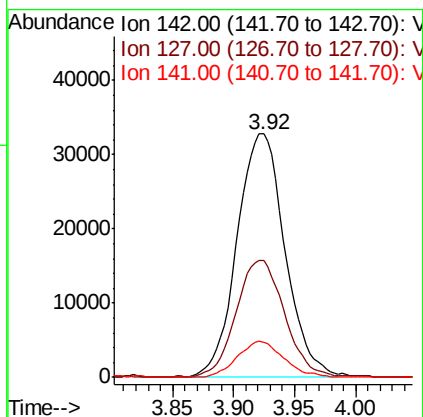
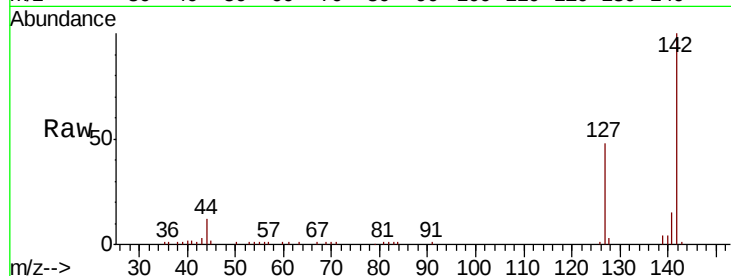




#11  
Methyl Iodide  
Concen: 15.507 ug/l  
RT: 3.92 min Scan# 669  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

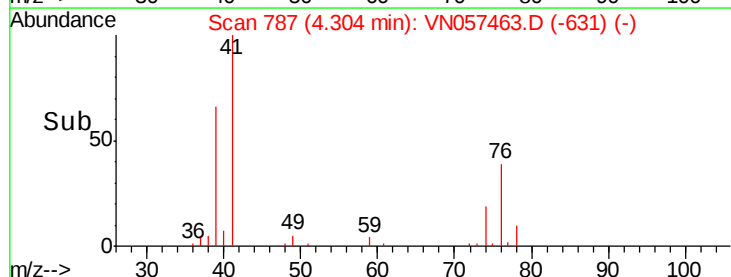
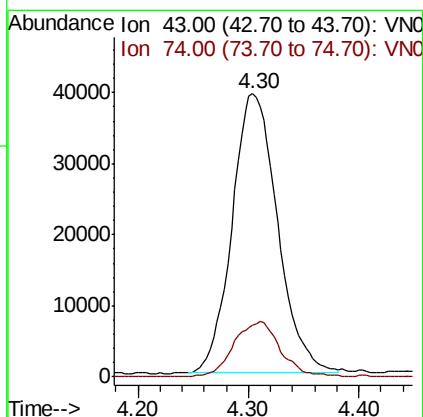
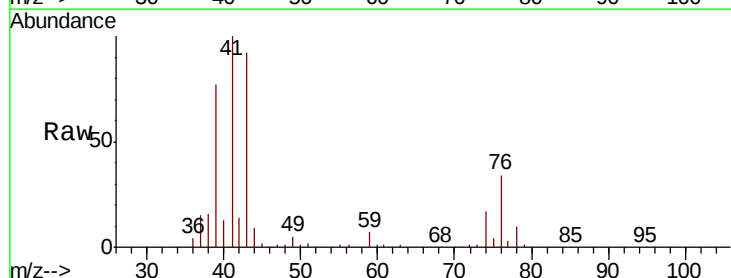
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

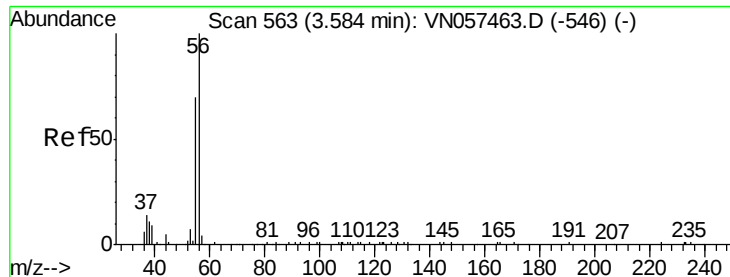
Tgt Ion:142 Resp: 89288  
Ion Ratio Lower Upper  
142 100  
127 48.0 24.0 72.0  
141 14.1 7.0 21.1



#12  
Methyl Acetate  
Concen: 25.288 ug/l  
RT: 4.30 min Scan# 787  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 43 Resp: 112353  
Ion Ratio Lower Upper  
43 100  
74 18.5 14.6 22.0





#13

Acrolein

Concen: 163.514 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

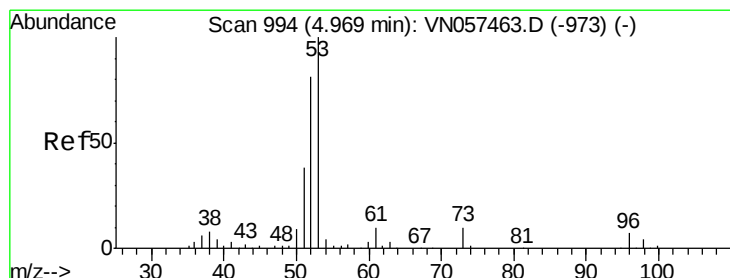
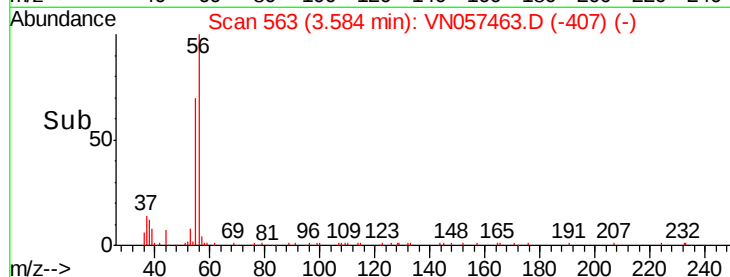
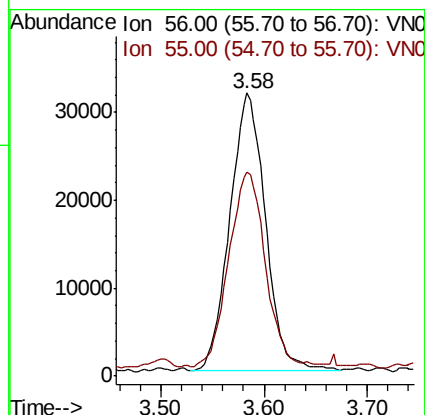
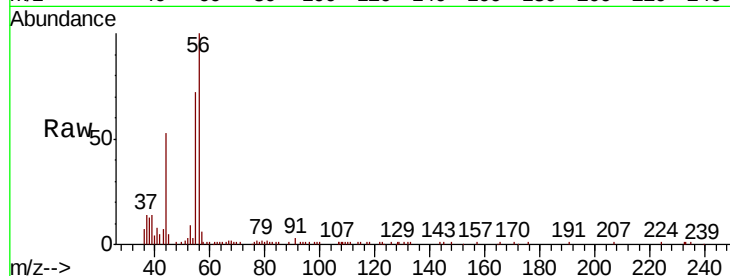
VSTDICCC020

Tgt Ion: 56 Resp: 76324

Ion Ratio Lower Upper

56 100

55 70.9 56.7 85.1



#14

Acrylonitrile

Concen: 117.518 ug/l

RT: 4.97 min Scan# 994

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

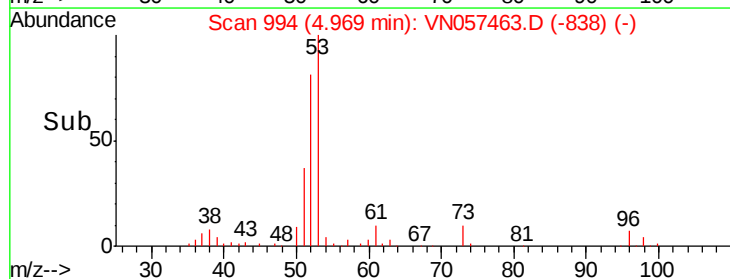
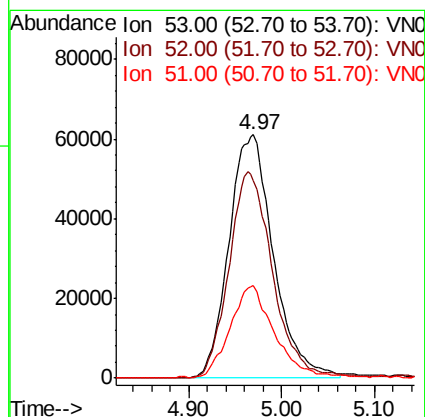
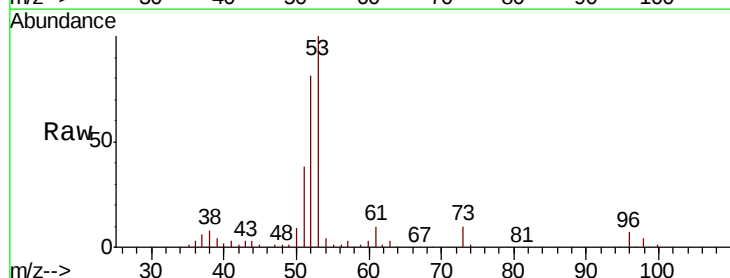
Tgt Ion: 53 Resp: 202382

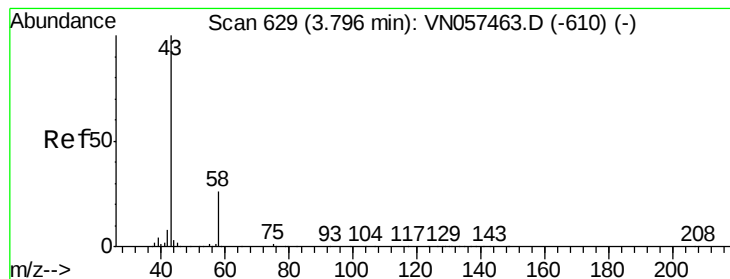
Ion Ratio Lower Upper

53 100

52 82.6 41.3 123.9

51 36.6 18.3 54.9





#15

Acetone

Concen: 180.857 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

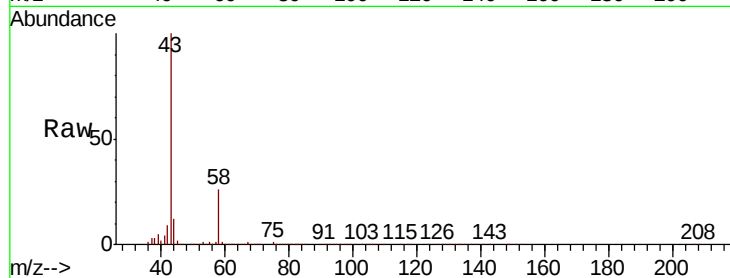
VSTDICCC020

Tgt Ion: 58 Resp: 108098

Ion Ratio Lower Upper

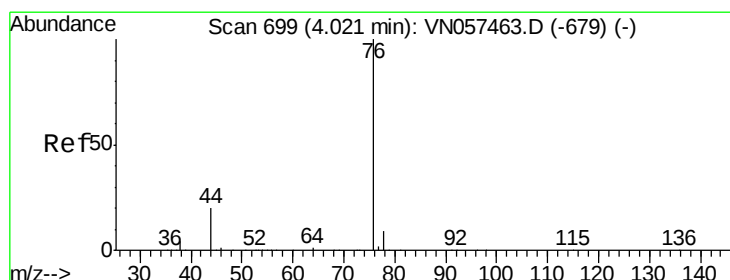
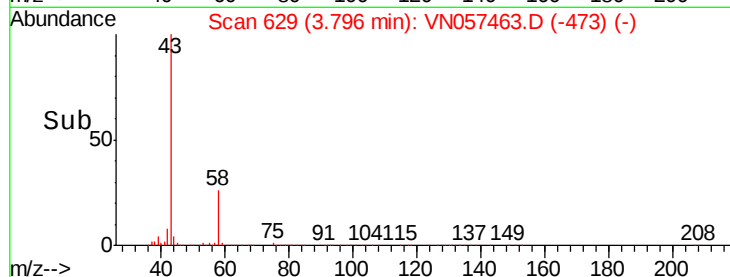
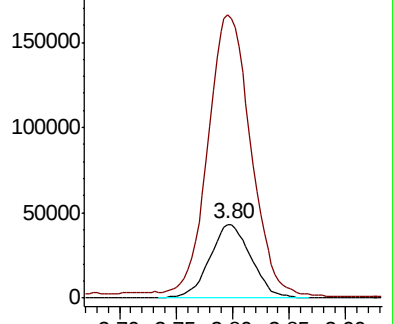
58 100

43 380.5 304.4 456.6



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 20.528 ug/l

RT: 4.02 min Scan# 699

Delta R.T. 0.00 min

Lab File: VN057463.D

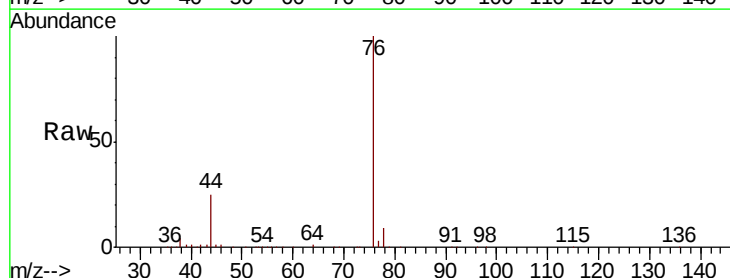
Acq: 23 Aug 2019 9:37

Tgt Ion: 76 Resp: 203927

Ion Ratio Lower Upper

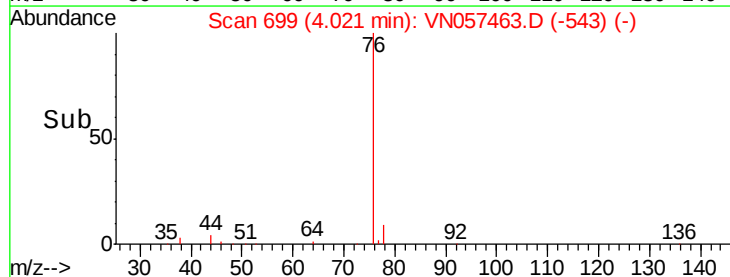
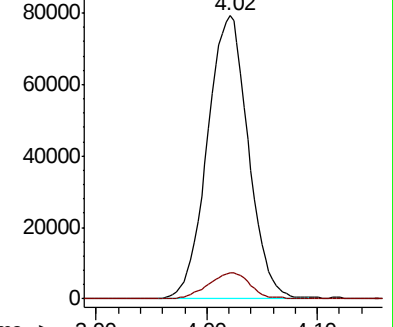
76 100

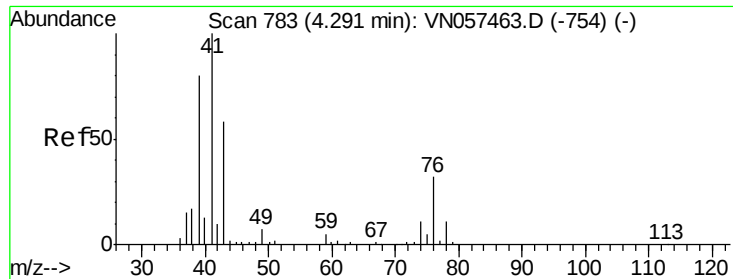
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

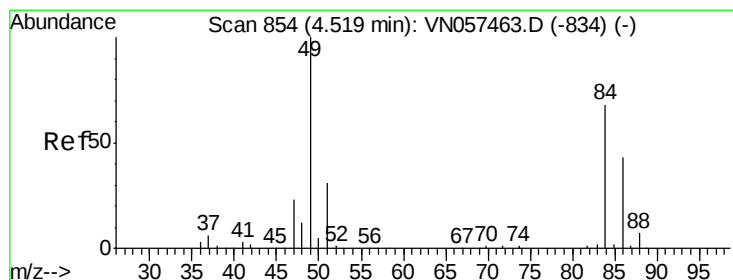
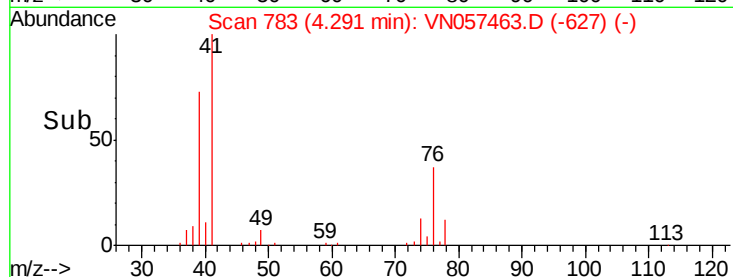
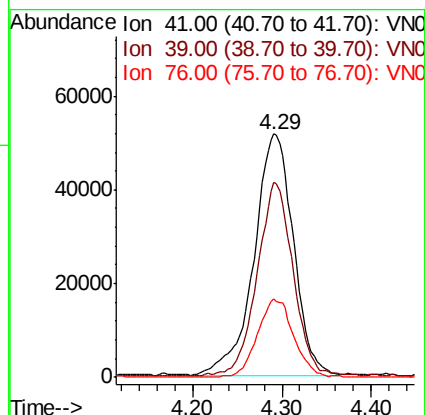
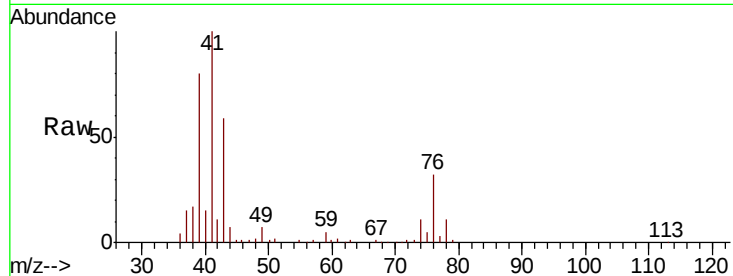




#17  
 Allyl chloride  
 Concen: 27.170 ug/l  
 RT: 4.29 min Scan# 783  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

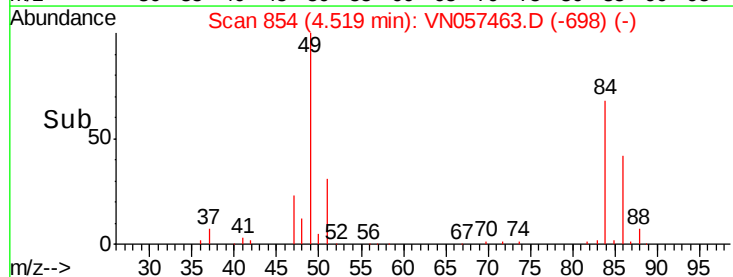
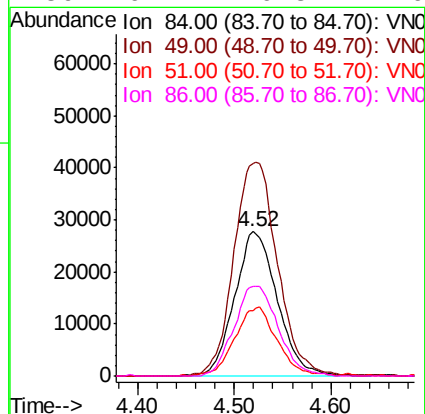
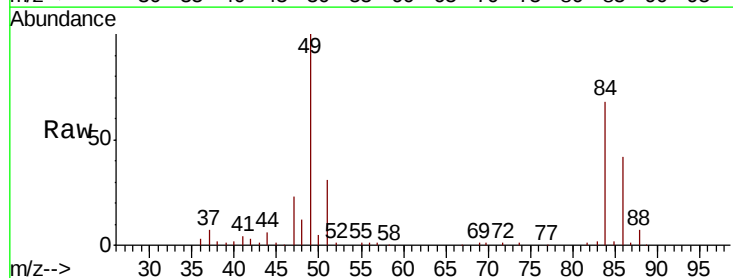
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

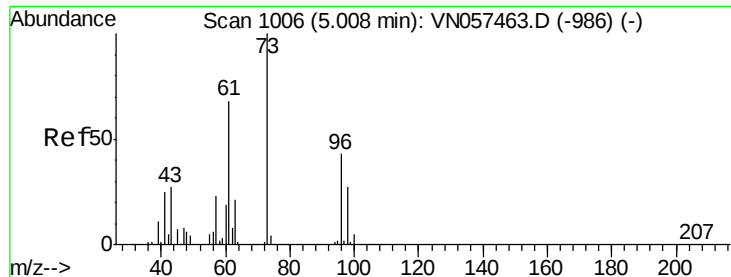
Tgt Ion: 41 Resp: 157740  
 Ion Ratio Lower Upper  
 41 100  
 39 80.1 40.1 120.2  
 76 32.4 16.2 48.6



#18  
 Methylene Chloride  
 Concen: 20.548 ug/l  
 RT: 4.52 min Scan# 854  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion: 84 Resp: 85014  
 Ion Ratio Lower Upper  
 84 100  
 49 146.0 116.8 175.2  
 51 45.5 36.4 54.6  
 86 62.2 49.8 74.6

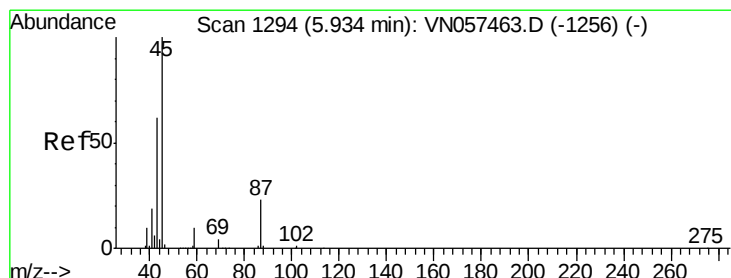
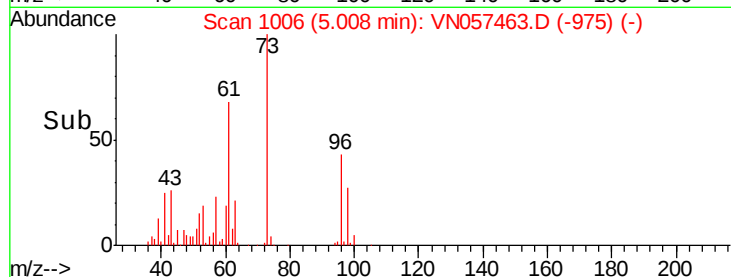
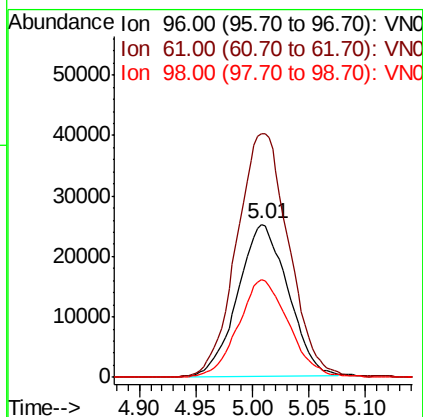
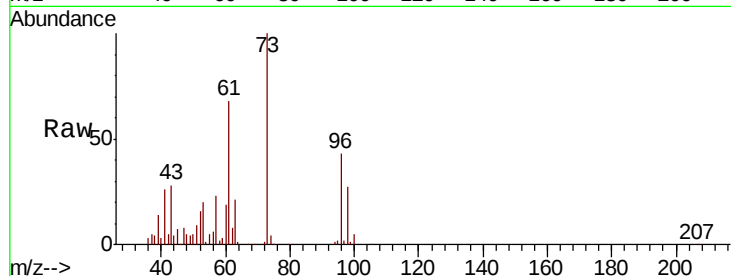




#19  
trans-1,2-Dichloroethene  
Concen: 19.963 ug/l  
RT: 5.01 min Scan# 1006  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

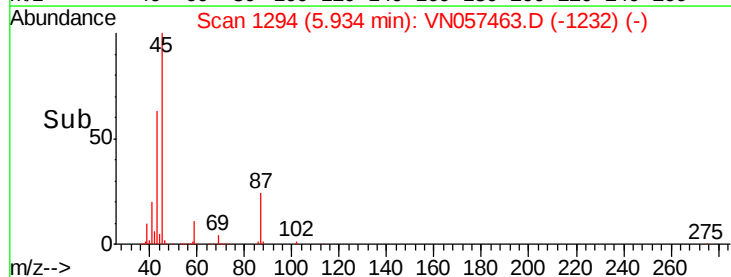
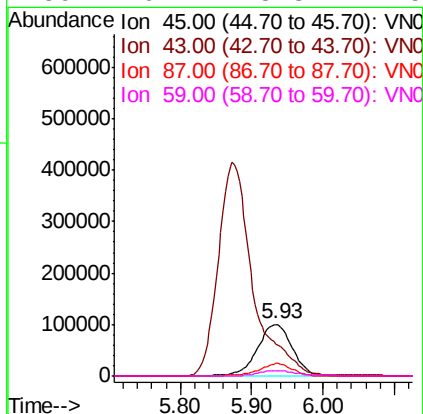
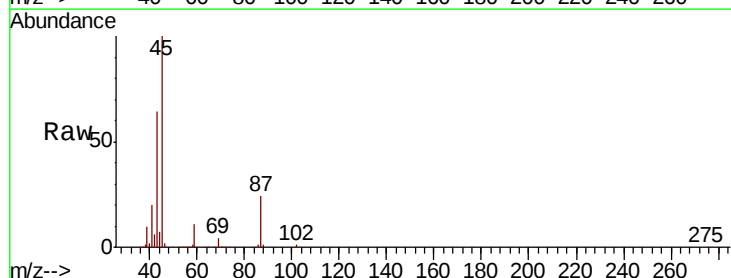
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

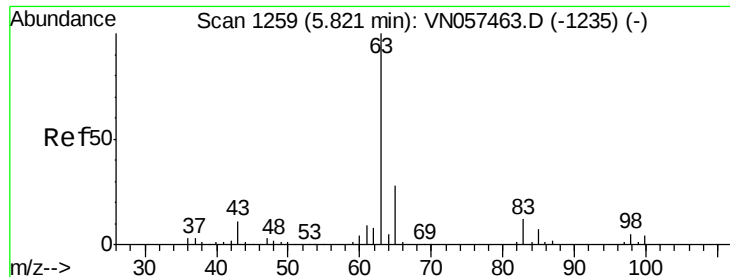
Tgt Ion: 96 Resp: 77845  
Ion Ratio Lower Upper  
96 100  
61 159.5 127.6 191.4  
98 64.4 51.5 77.3



#20  
Diisopropyl ether  
Concen: 28.120 ug/l  
RT: 5.93 min Scan# 1294  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 45 Resp: 341616  
Ion Ratio Lower Upper  
45 100  
43 62.4 49.9 74.9  
87 23.9 19.1 28.7  
59 10.4 8.3 12.5

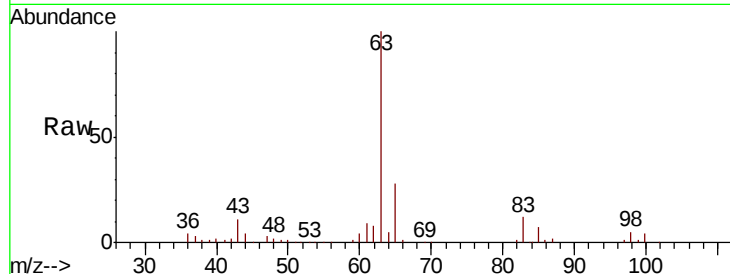




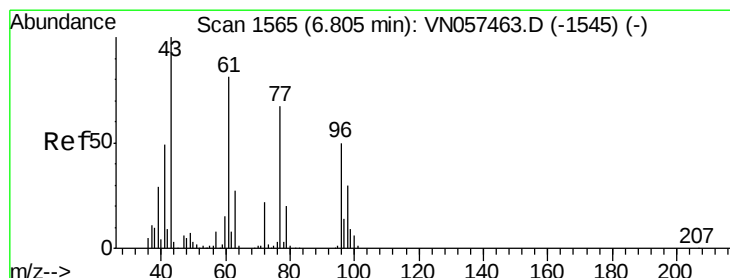
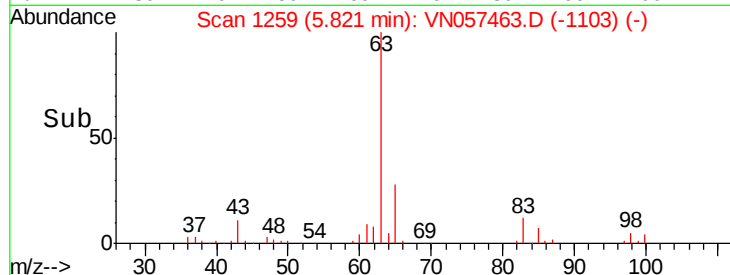
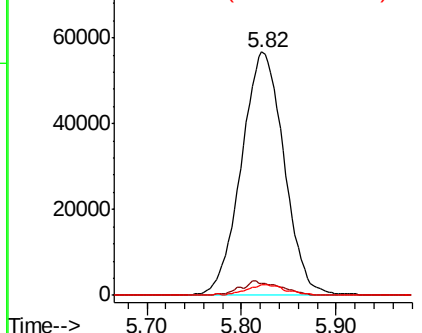
#21  
 1,1-Dichloroethane  
 Concen: 24.799 ug/l  
 RT: 5.82 min Scan# 1259  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

Tgt Ion: 63 Resp: 177719  
 Ion Ratio Lower Upper  
 63 100  
 98 4.7 2.4 7.1  
 100 4.2 2.1 6.3

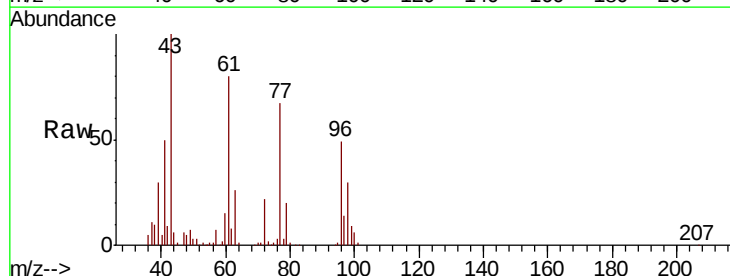


Abundance Ion 63.00 (62.70 to 63.70): VN0  
 Ion 98.00 (97.70 to 98.70): VN0  
 Ion 100.00 (99.70 to 100.70): VN0

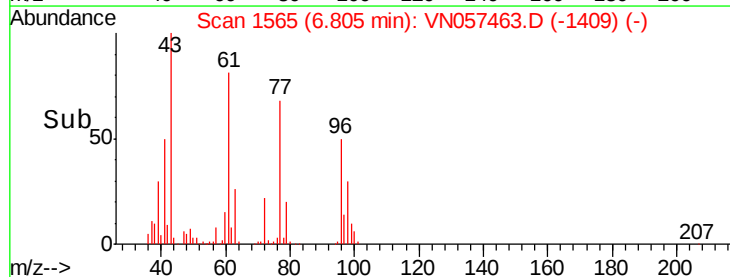
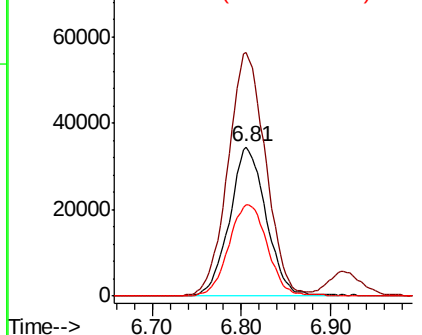


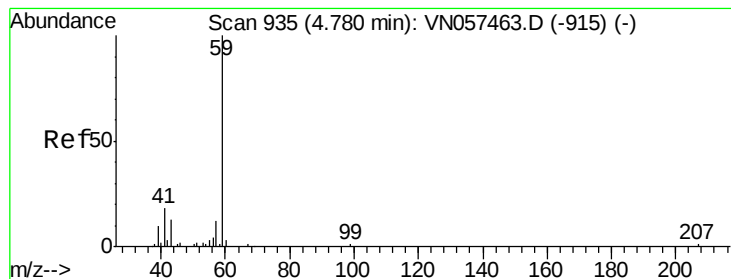
#22  
 cis-1,2-Dichloroethene  
 Concen: 21.387 ug/l  
 RT: 6.81 min Scan# 1565  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion: 96 Resp: 98130  
 Ion Ratio Lower Upper  
 96 100  
 61 168.0 134.4 201.6  
 98 64.2 51.4 77.0



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





#23

tert-Butyl Alcohol

Concen: 118.061 ug/l

RT: 4.78 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

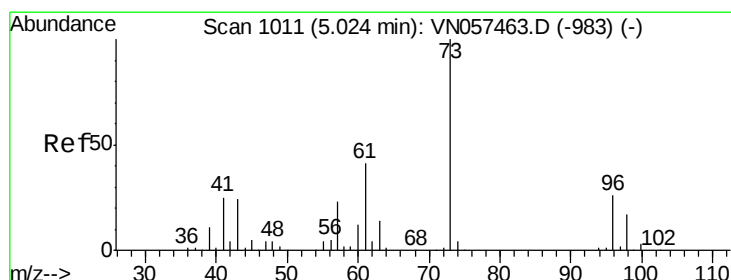
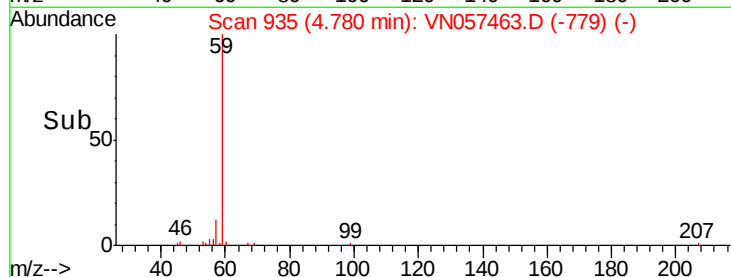
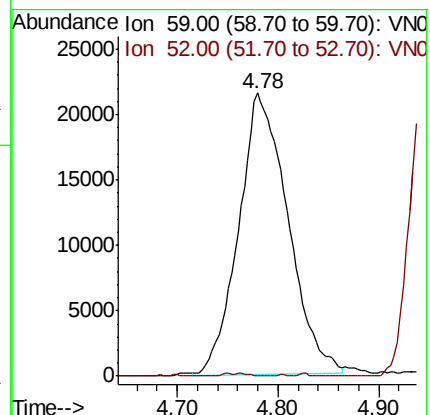
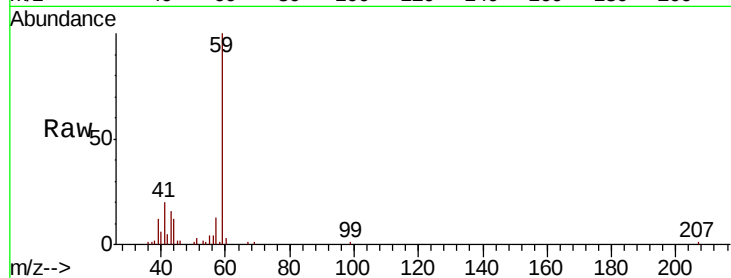
VSTDICCC020

Tgt Ion: 59 Resp: 72903

Ion Ratio Lower Upper

59 100

52 0.1 0.1 0.1



#24

Methyl tert-Butyl Ether

Concen: 23.389 ug/l

RT: 5.02 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VN057463.D

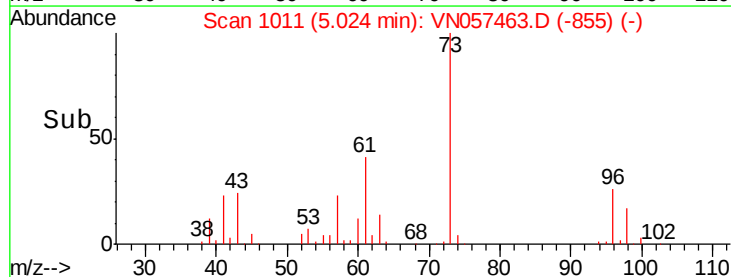
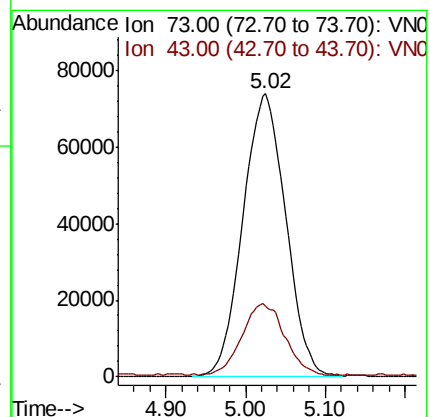
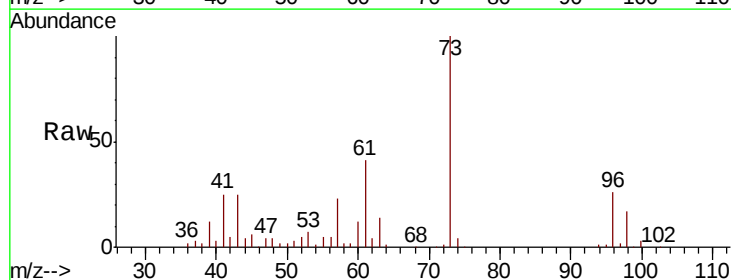
Acq: 23 Aug 2019 9:37

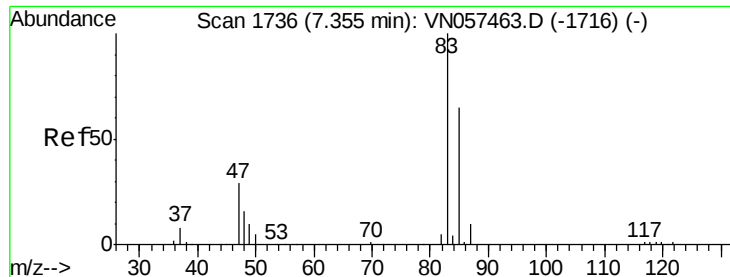
Tgt Ion: 73 Resp: 269665

Ion Ratio Lower Upper

73 100

43 25.0 20.1 30.1

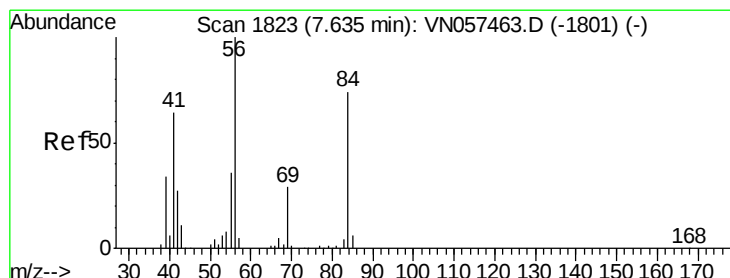
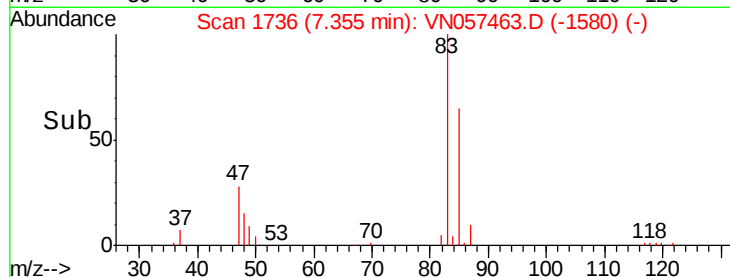
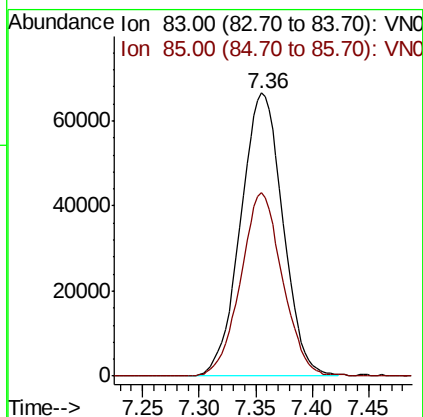
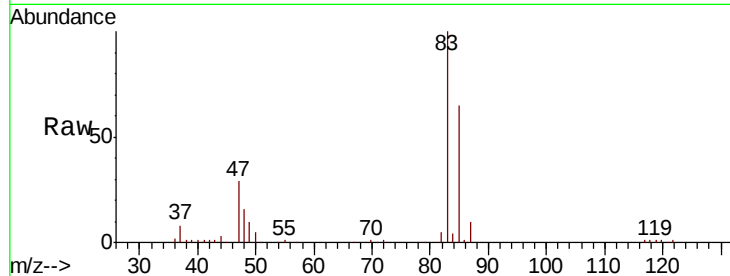




#25  
Chloroform  
Concen: 23.487 ug/l  
RT: 7.36 min Scan# 1736  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

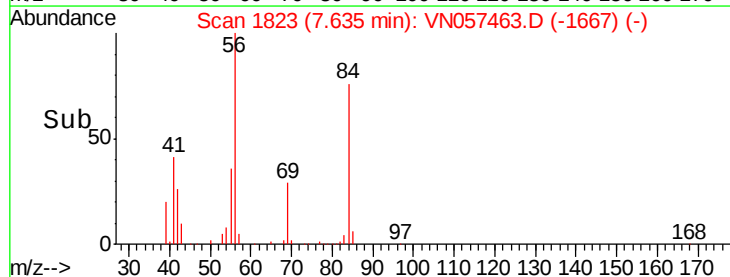
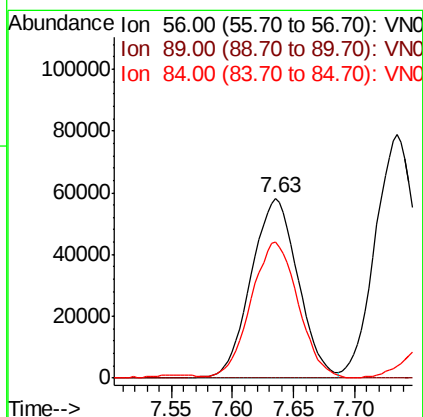
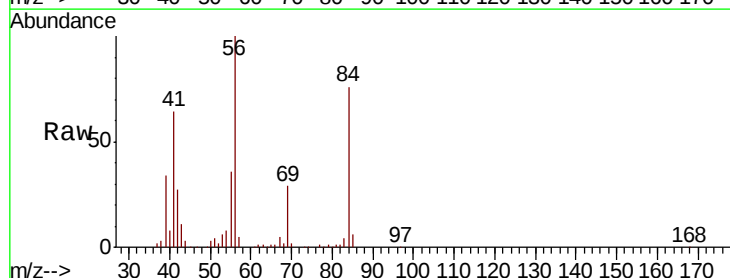
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

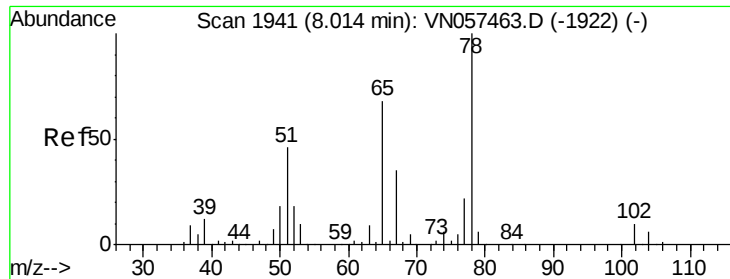
Tgt Ion: 83 Resp: 173154  
Ion Ratio Lower Upper  
83 100  
85 65.0 52.0 78.0



#26  
Cyclohexane  
Concen: 25.749 ug/l  
RT: 7.63 min Scan# 1823  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 56 Resp: 155379  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.0 0.0  
84 76.4 61.1 91.7

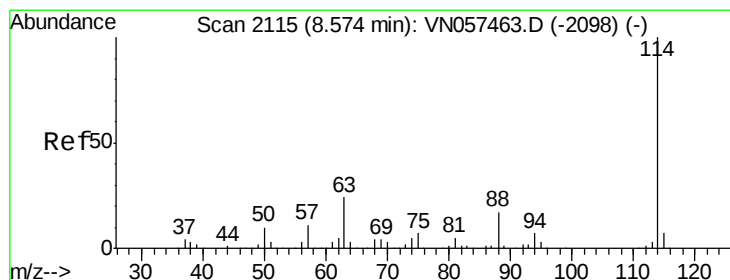
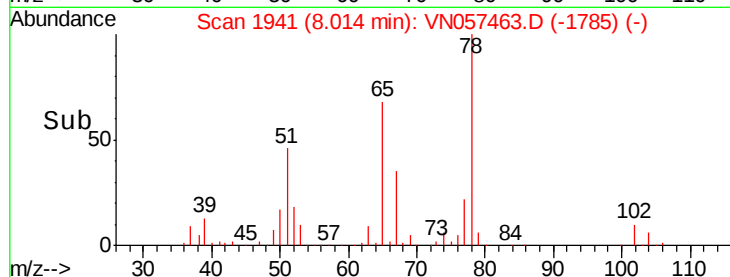
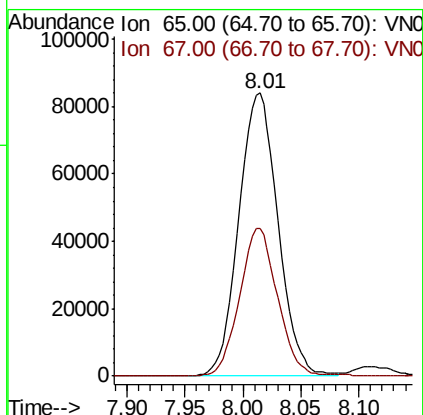
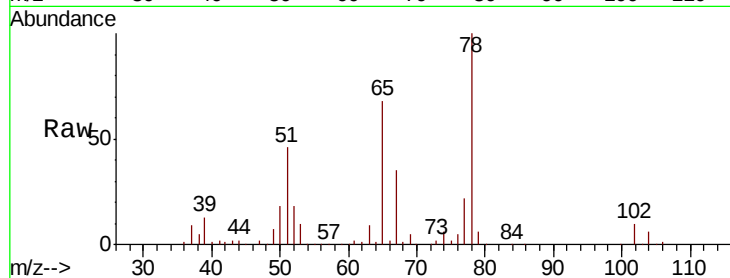




#27  
 1,2-Dichloroethane-d4  
 Concen: 41.672 ug/l  
 RT: 8.01 min Scan# 1941  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

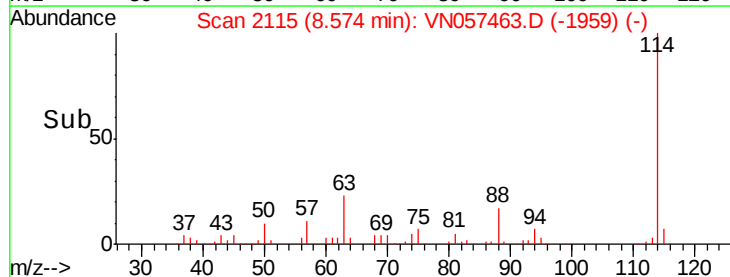
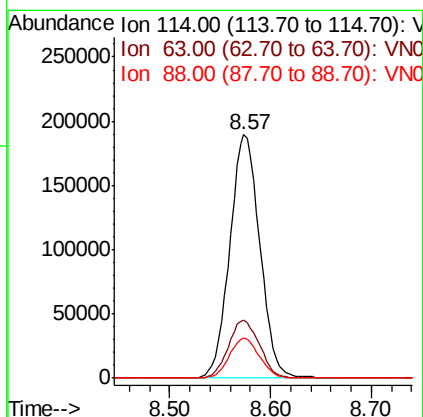
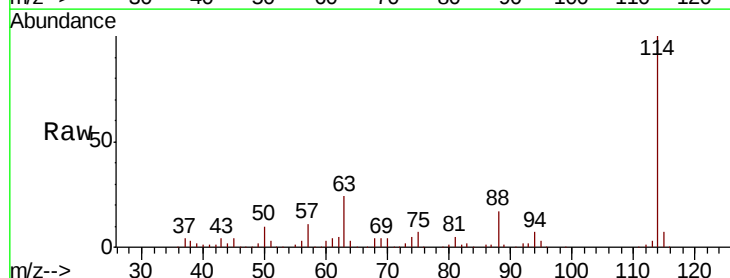
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

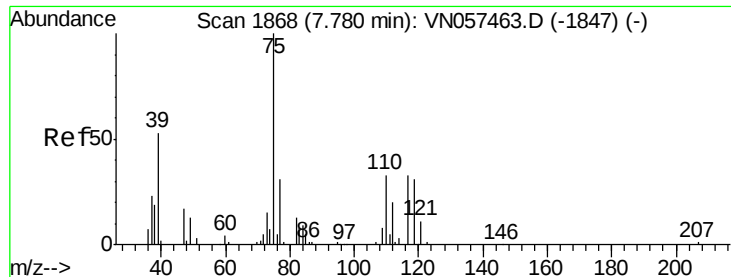
Tgt Ion: 65 Resp: 197913  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 40.2 60.4



#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion: 114 Resp: 392757  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 19.6 29.4  
 88 16.4 13.1 19.7

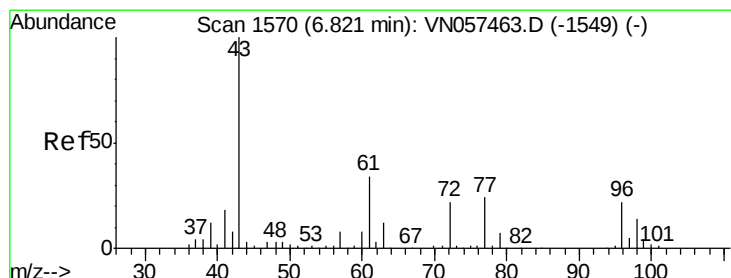
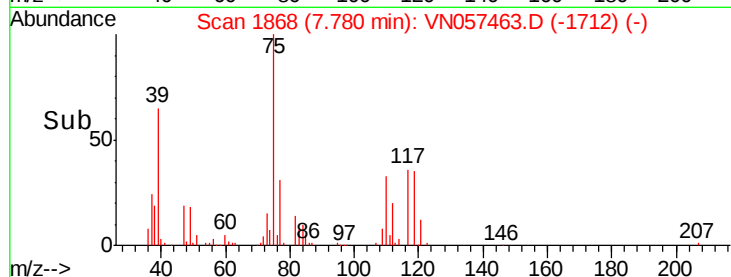
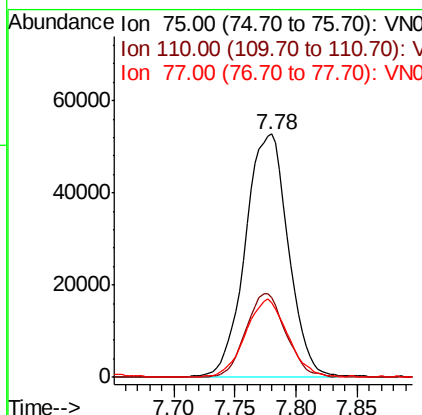
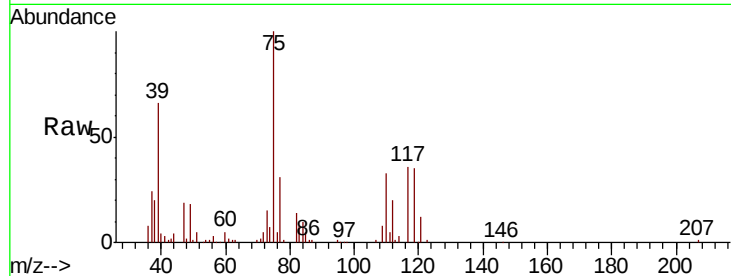




#29  
 1,1-Dichloropropene  
 Concen: 22.032 ug/l  
 RT: 7.78 min Scan# 1868  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

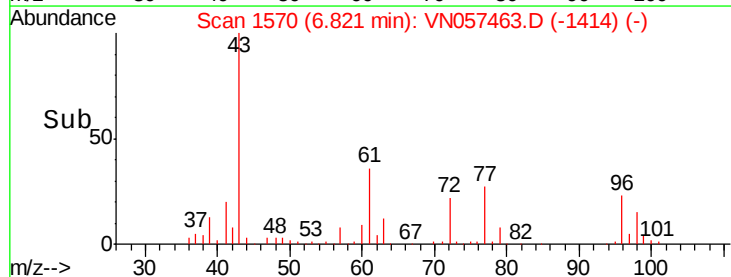
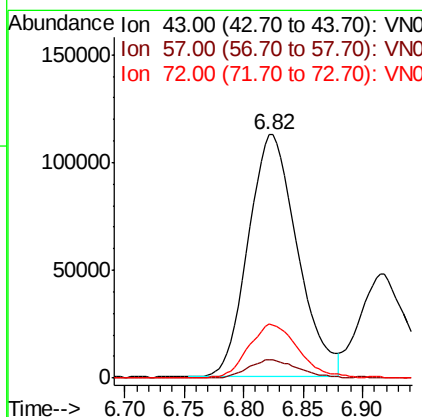
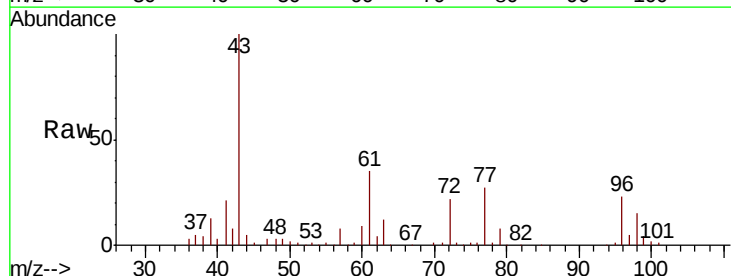
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

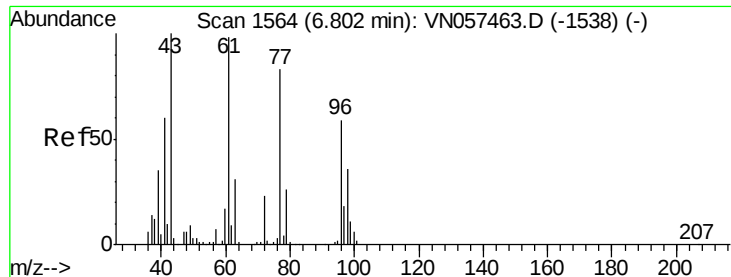
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 32.0  | 0.0   | 64.0  |
| 77      | 31.7  | 0.0   | 63.4  |



#30  
 2-Butanone  
 Concen: 131.874 ug/l  
 RT: 6.82 min Scan# 1570  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 7.1   | 5.7   | 8.5   |
| 72      | 22.7  | 18.2  | 27.2  |





#31

2,2-Dichloropropane

Concen: 23.118 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampled :

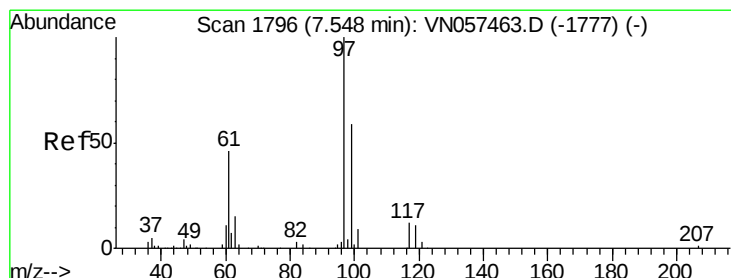
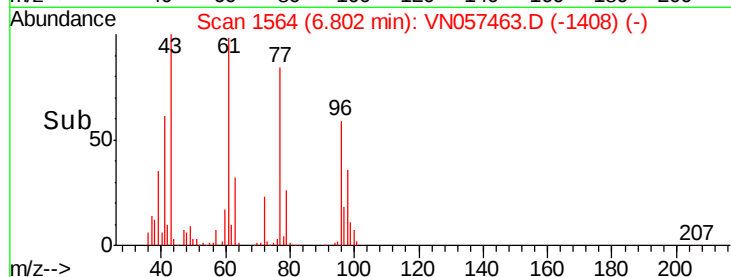
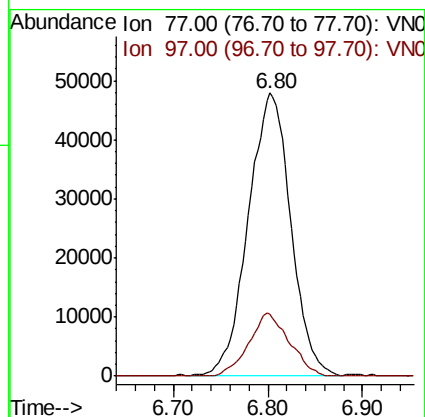
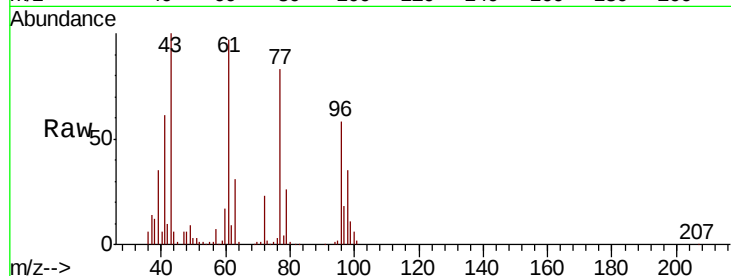
VSTDICCC020

Tgt Ion: 77 Resp: 149556

Ion Ratio Lower Upper

77 100

97 21.2 17.0 25.4



#32

1,1,1-Trichloroethane

Concen: 21.669 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

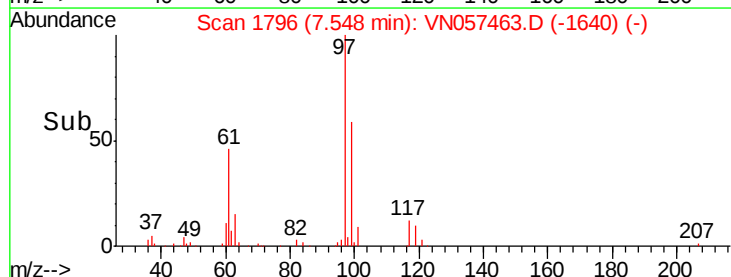
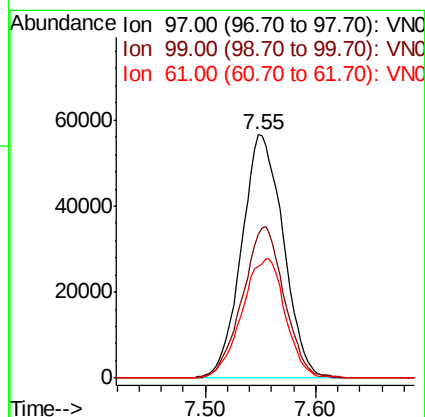
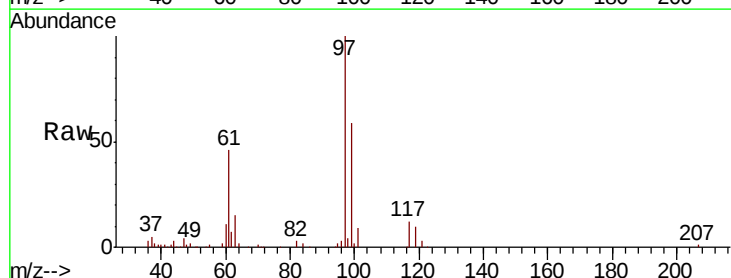
Tgt Ion: 97 Resp: 148254

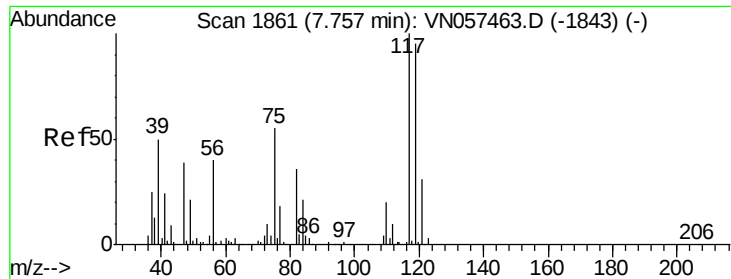
Ion Ratio Lower Upper

97 100

99 62.0 49.6 74.4

61 51.1 40.9 61.3

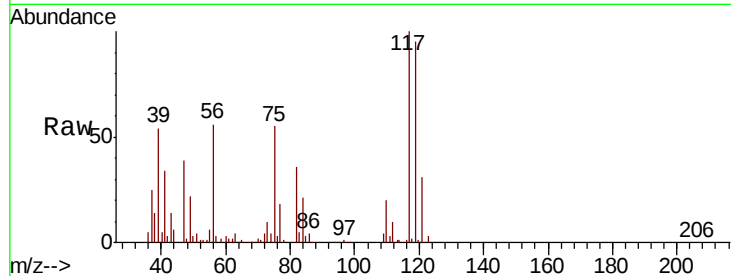




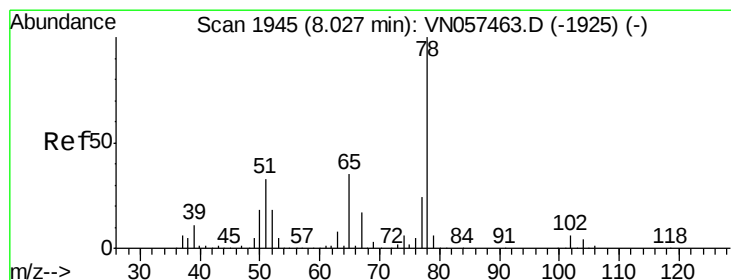
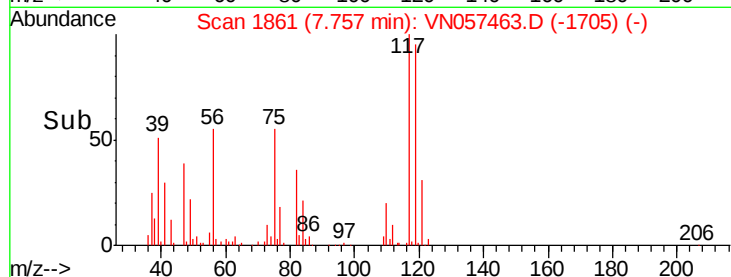
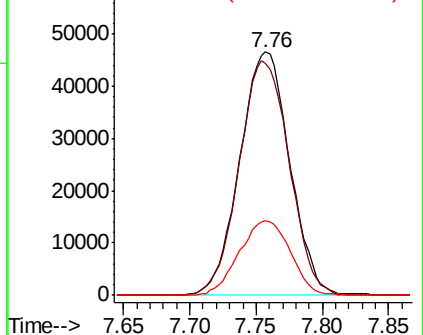
#33  
Carbon Tetrachloride  
Concen: 20.230 ug/l  
RT: 7.76 min Scan# 1861  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion:117 Resp: 121704  
Ion Ratio Lower Upper  
117 100  
119 96.0 76.8 115.2  
121 31.0 24.8 37.2

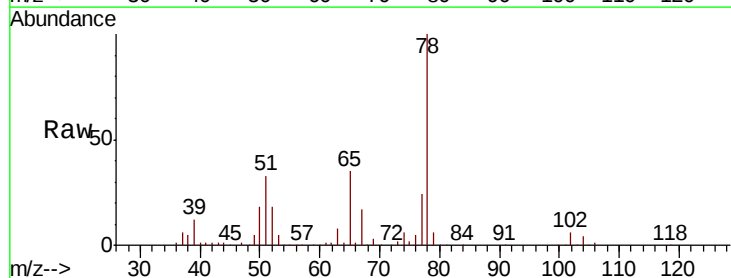


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V

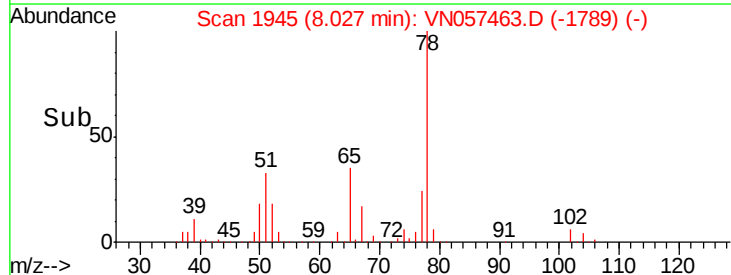
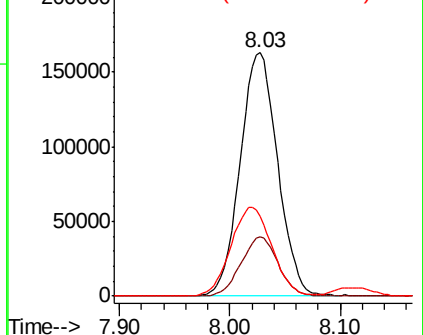


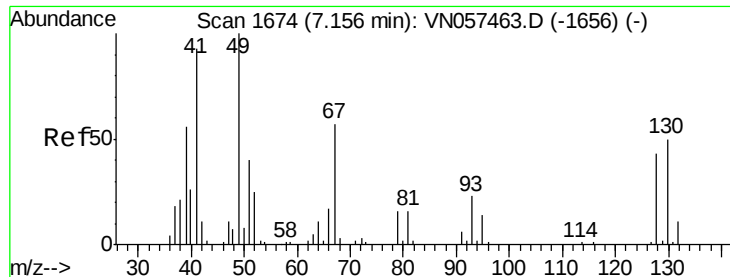
#34  
Benzene  
Concen: 21.786 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 78 Resp: 384335  
Ion Ratio Lower Upper  
78 100  
77 24.4 19.5 29.3  
51 32.5 26.0 39.0



Abundance Ion 78.10 (77.80 to 78.80): VNO  
Ion 77.00 (76.70 to 77.70): VNO  
Ion 51.00 (50.70 to 51.70): VNO

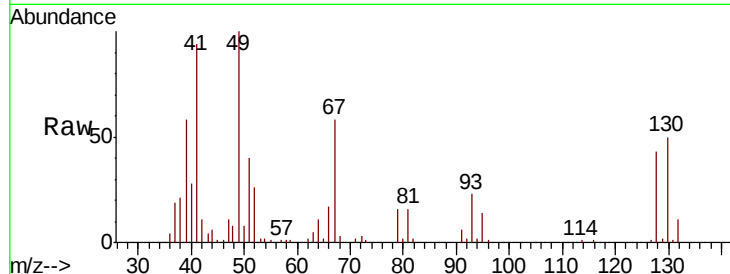




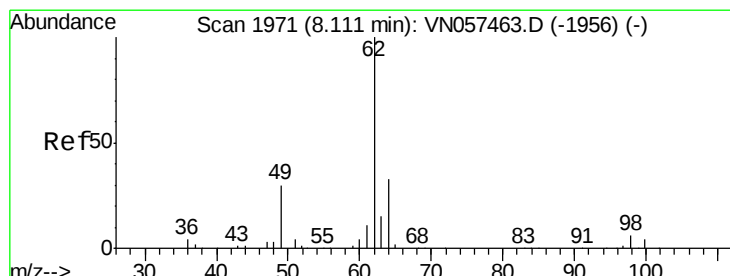
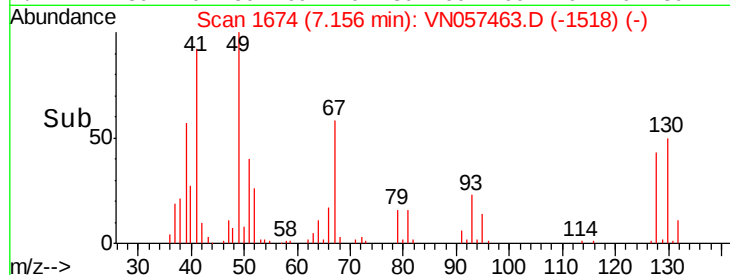
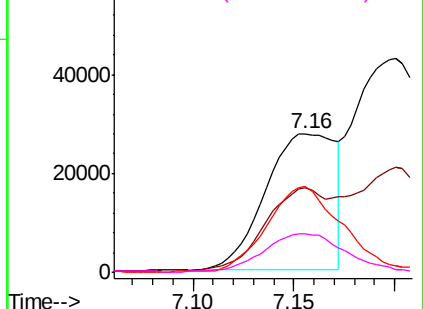
#35  
Methacrylonitrile  
Concen: 20.935 ug/l  
RT: 7.16 min Scan# 1674  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Instrument :  
MSVOA\_N  
ClientSampled :  
VSTDICCC020

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 66509 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 61.0  | 30.5  | 91.5  |
| 67       | 61.7  | 30.9  | 92.5  |
| 52       | 27.2  | 13.6  | 40.8  |

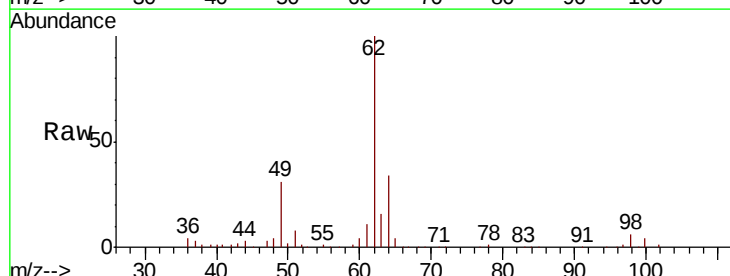


Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO  
Ion 67.00 (66.70 to 67.70): VNO  
Ion 52.00 (51.70 to 52.70): VNO

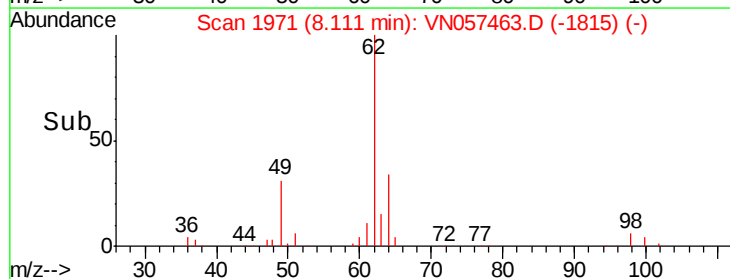
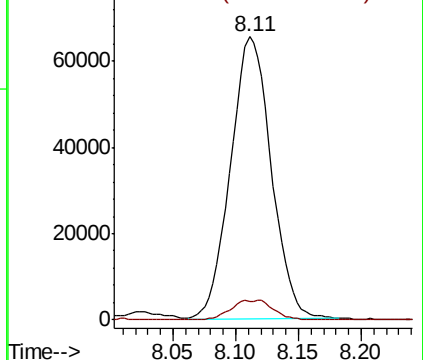


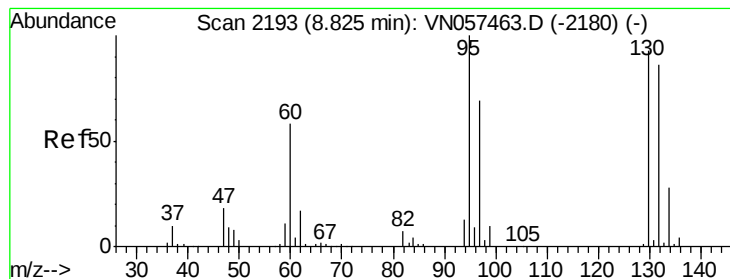
#36  
1,2-Dichloroethane  
Concen: 24.684 ug/l  
RT: 8.11 min Scan# 1971  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 147806 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 98       | 3.5   | 2.8   | 4.2    |



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





#37

Trichloroethene

Concen: 17.976 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

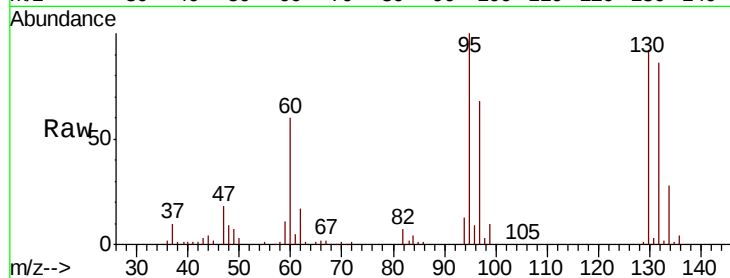
VSTDICCC020

Tgt Ion:130 Resp: 88139

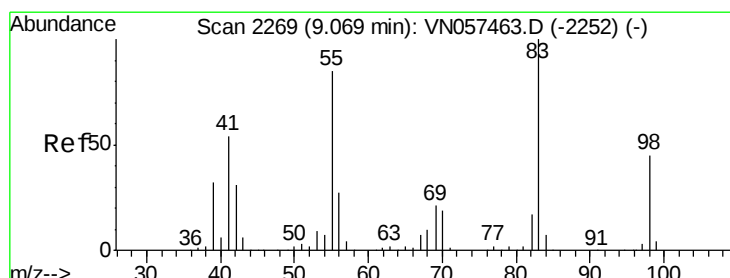
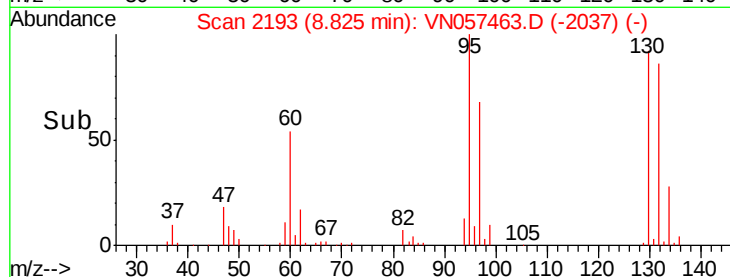
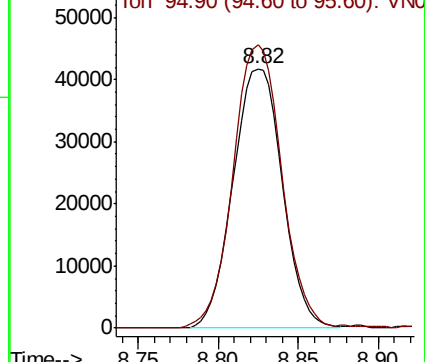
Ion Ratio Lower Upper

130 100

95 108.0 86.4 129.6



Abundance Ion 129.90 (129.60 to 130.60): VN057463.D (-2180) (-)



#38

Methylcyclohexane

Concen: 20.997 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

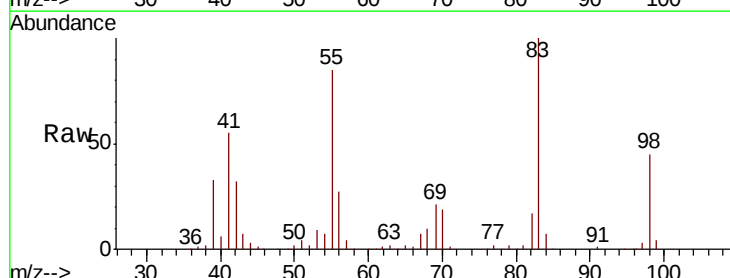
Tgt Ion: 83 Resp: 143133

Ion Ratio Lower Upper

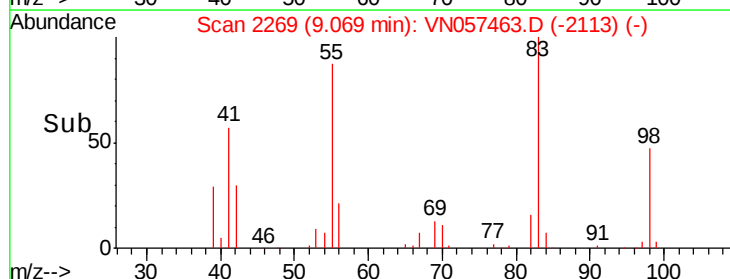
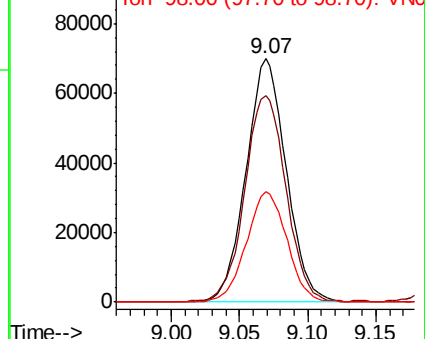
83 100

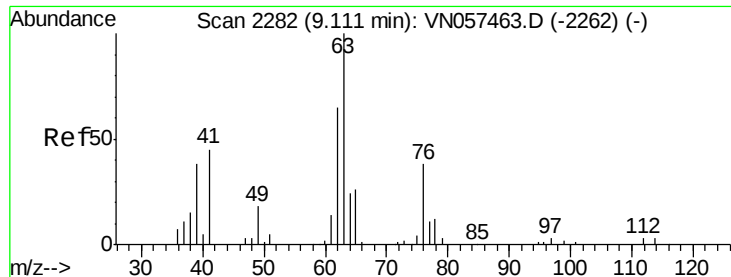
55 86.5 43.3 129.8

98 45.6 22.8 68.4



Abundance Ion 83.00 (82.70 to 83.70): VN057463.D (-2252) (-)

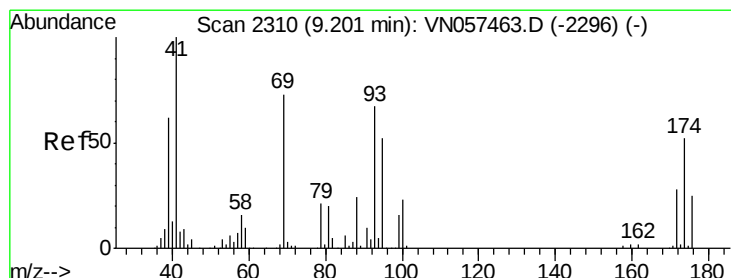
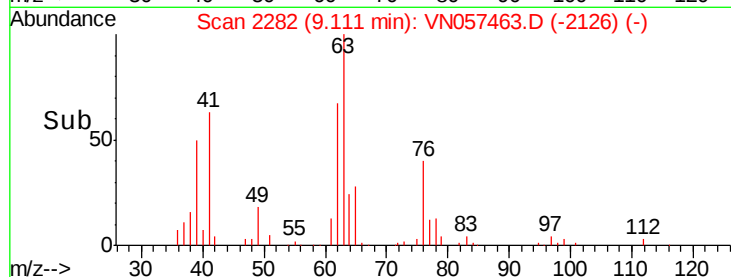
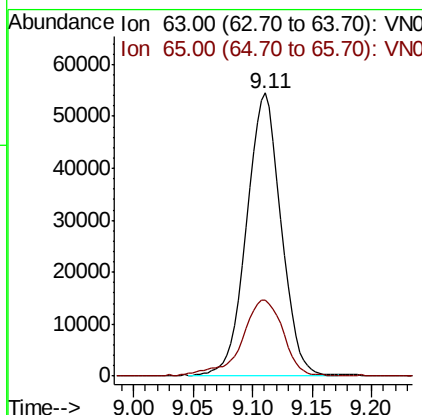
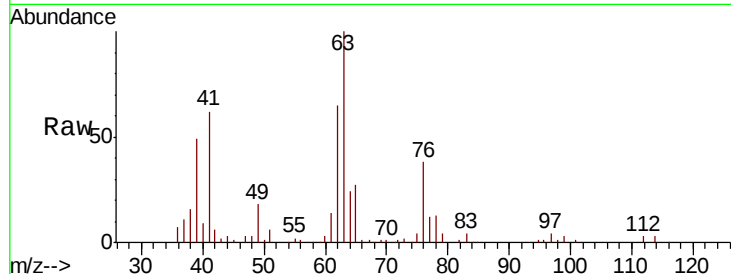




#39  
 1,2-Dichloropropane  
 Concen: 23.609 ug/l  
 RT: 9.11 min Scan# 2282  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

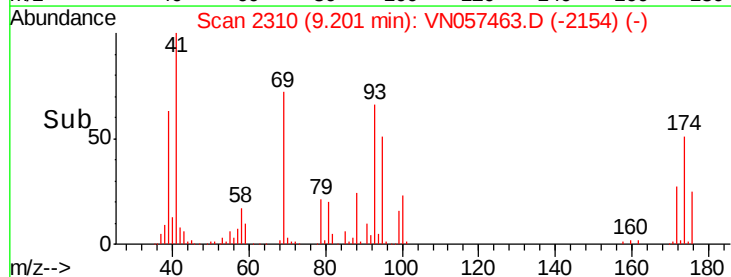
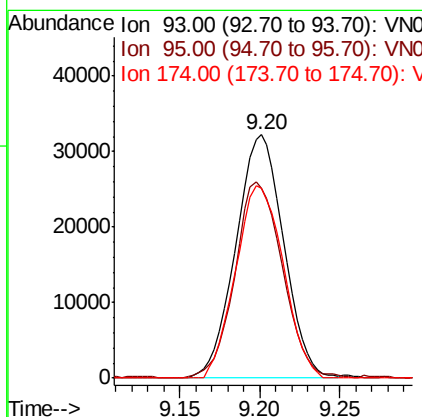
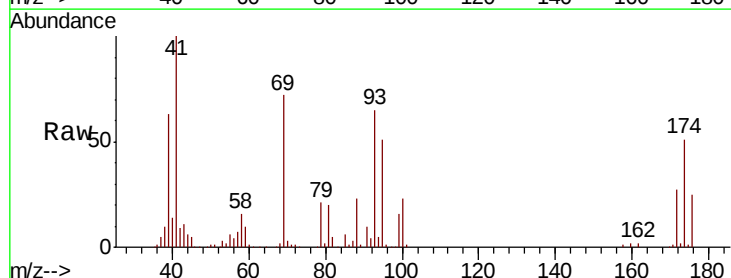
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

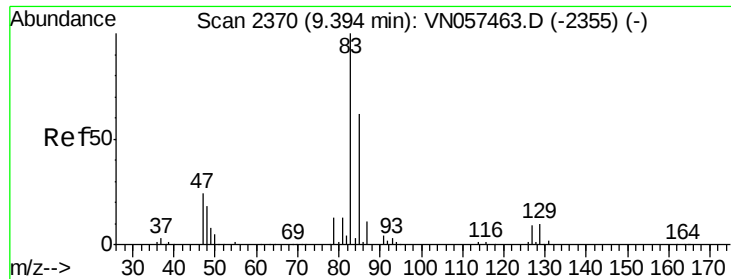
Tgt Ion: 63 Resp: 108990  
 Ion Ratio Lower Upper  
 63 100  
 65 27.0 21.6 32.4



#40  
 Dibromomethane  
 Concen: 21.950 ug/l  
 RT: 9.20 min Scan# 2310  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion: 93 Resp: 65999  
 Ion Ratio Lower Upper  
 93 100  
 95 80.4 0.0 160.8  
 174 78.6 0.0 157.2





#41

Bromodichloromethane

Concen: 22.229 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

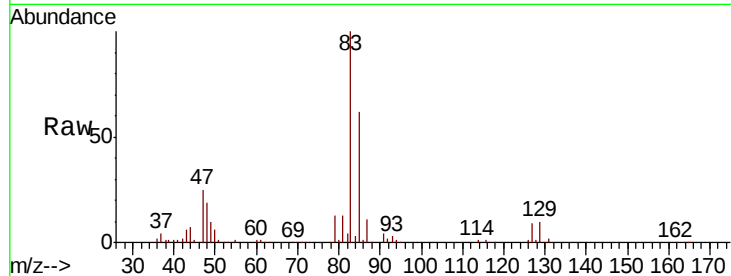
Tgt Ion: 83 Resp: 136222

Ion Ratio Lower Upper

83 100

85 62.3 49.8 74.8

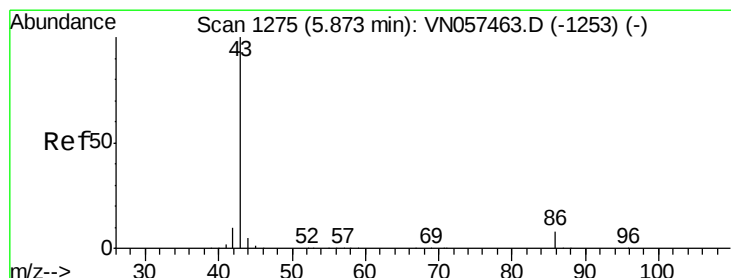
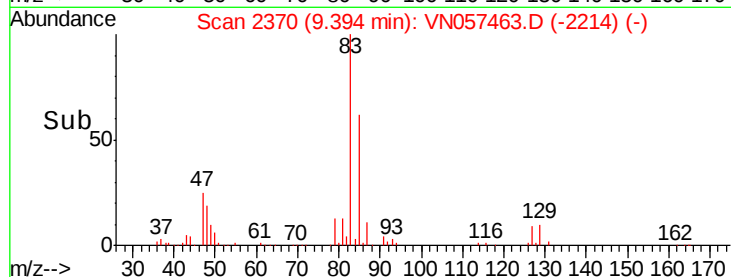
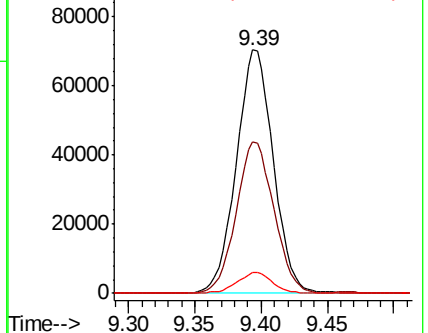
127 9.5 7.6 11.4



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 134.843 ug/l

RT: 5.87 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VN057463.D

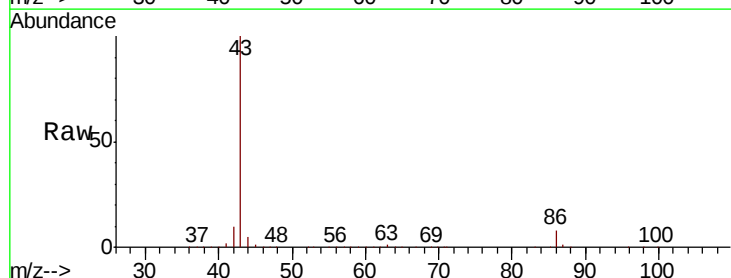
Acq: 23 Aug 2019 9:37

Tgt Ion: 43 Resp: 1393321

Ion Ratio Lower Upper

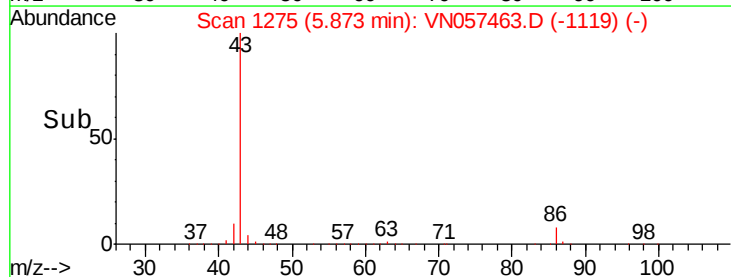
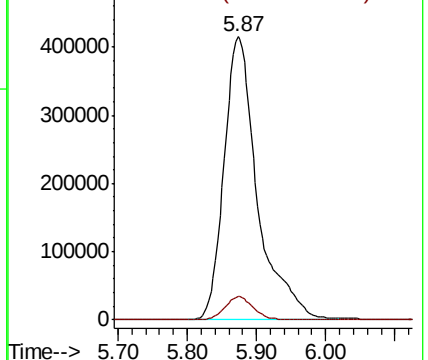
43 100

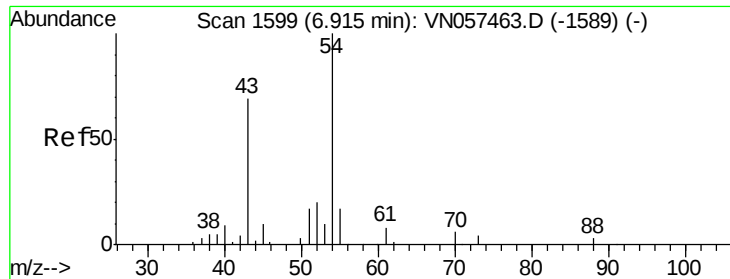
86 7.1 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#43

Ethyl Acetate

Concen: 24.779 ug/l

RT: 6.91 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

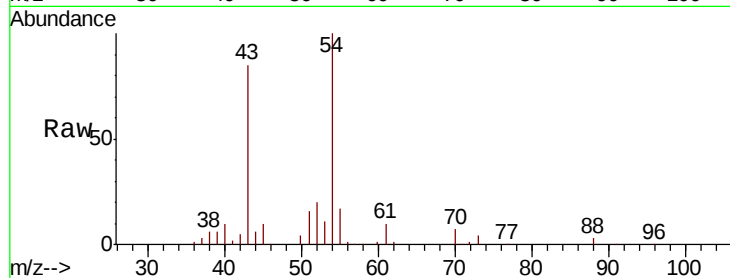
VSTDICCC020

Tgt Ion: 43 Resp: 121738

Ion Ratio Lower Upper

43 100

45 13.7 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

120000

100000

80000

60000

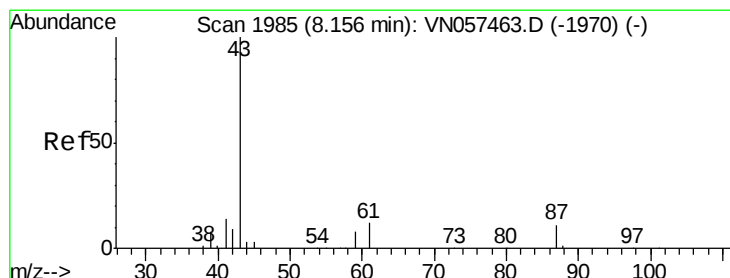
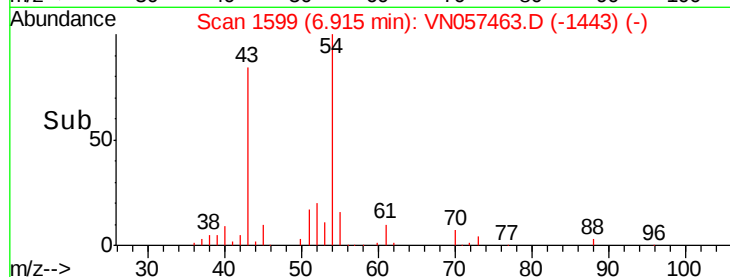
40000

20000

0

6.85 6.90 6.95 7.00

Time-->



#44

Isopropyl Acetate

Concen: 26.284 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057463.D

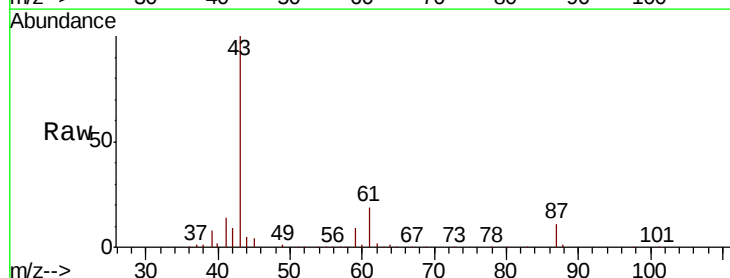
Acq: 23 Aug 2019 9:37

Tgt Ion: 43 Resp: 231237

Ion Ratio Lower Upper

43 100

61 18.2 0.1 0.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

120000

100000

80000

60000

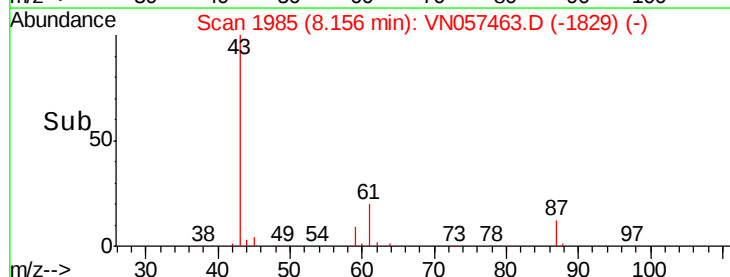
40000

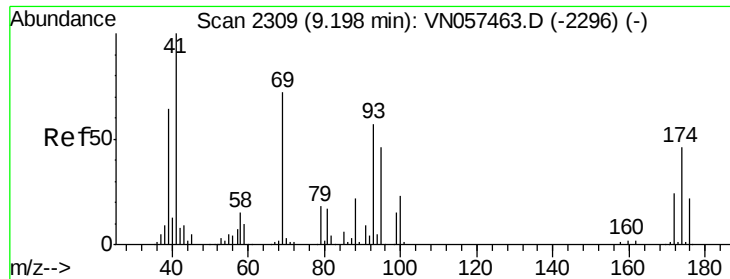
20000

0

8.10 8.20

Time-->





#45

1,4-Dioxane

Concen: 364.506 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

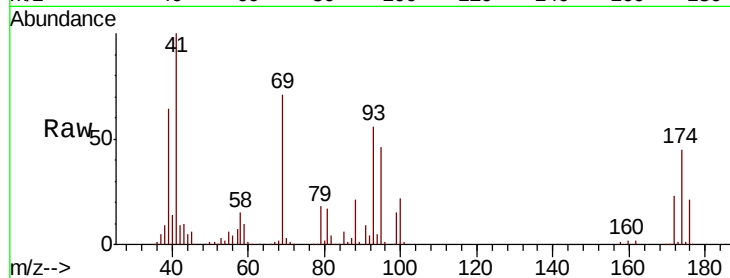
Tgt Ion: 88 Resp: 27436

Ion Ratio Lower Upper

88 100

43 37.2 29.8 44.6

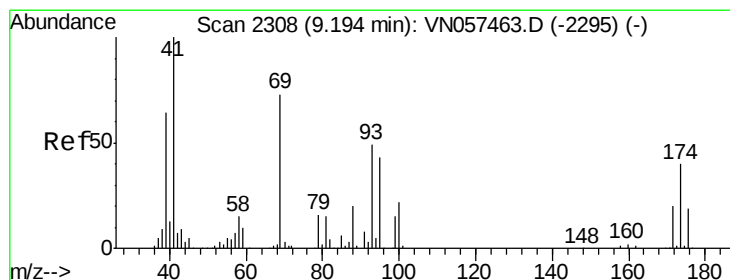
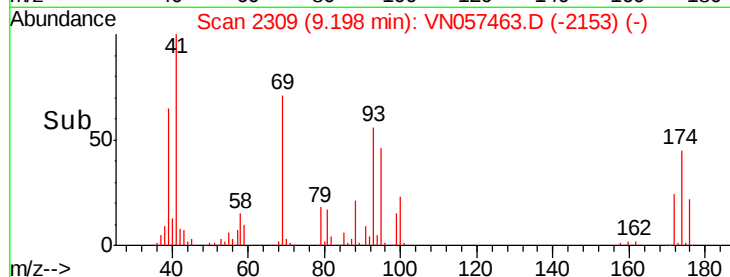
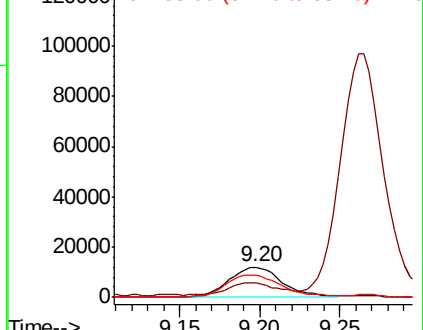
58 77.7 62.2 93.2



Abundance Ion 88.00 (87.70 to 88.70): VN057463.D (-2296) (-)

Ion 43.00 (42.70 to 43.70): VN057463.D (-2296) (-)

Ion 58.00 (57.70 to 58.70): VN057463.D (-2296) (-)



#46

Methyl methacrylate

Concen: 27.062 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

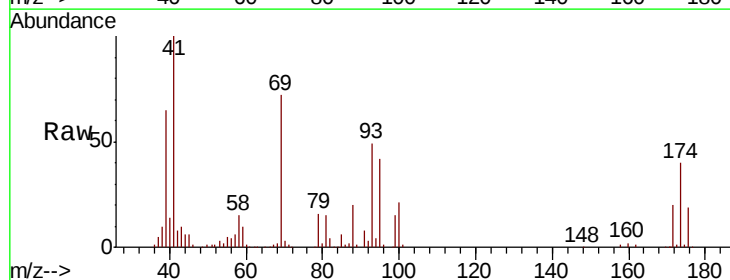
Tgt Ion: 41 Resp: 108240

Ion Ratio Lower Upper

41 100

69 73.0 36.5 109.5

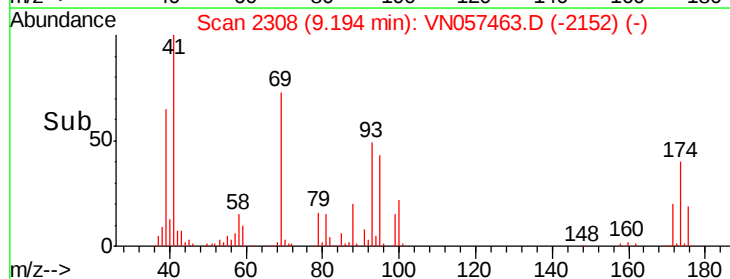
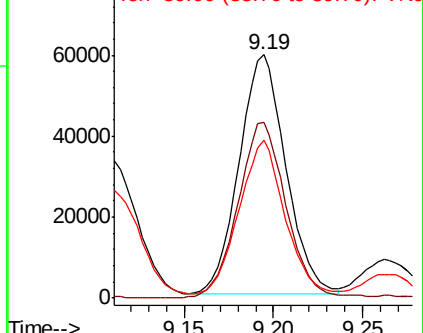
39 64.2 32.1 96.3

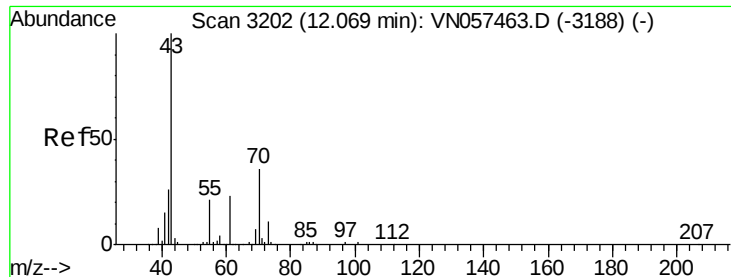


Abundance Ion 41.00 (40.70 to 41.70): VN057463.D (-2295) (-)

Ion 69.00 (68.70 to 69.70): VN057463.D (-2295) (-)

Ion 39.00 (38.70 to 39.70): VN057463.D (-2295) (-)





#47

n-amyl Acetate

Concen: 26.129 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

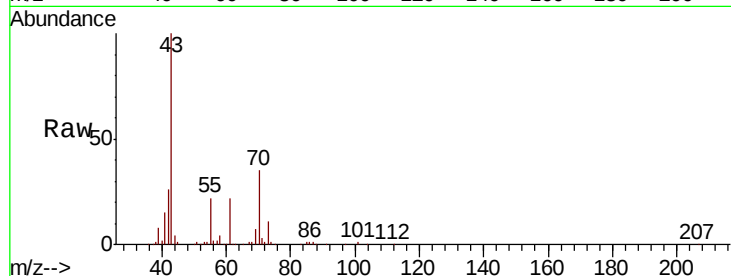
VSTDICCC020

Tgt Ion: 43 Resp: 173038

Ion Ratio Lower Upper

43 100

55 21.3 17.0 25.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

120000

100000

80000

60000

40000

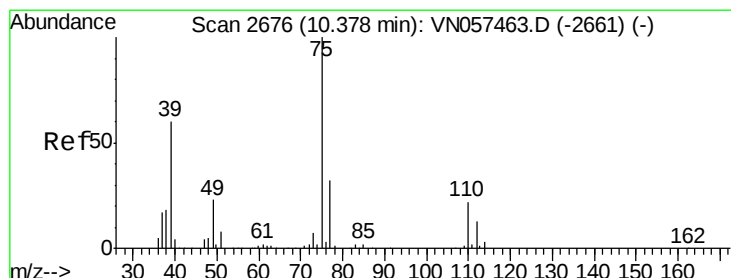
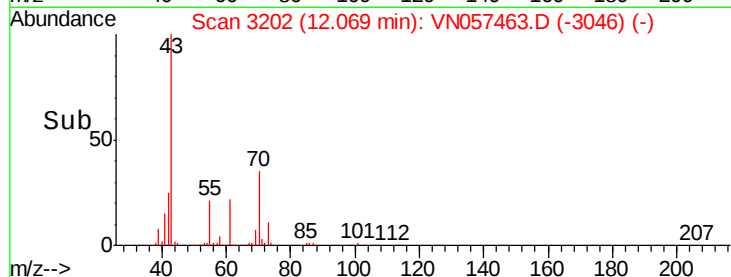
20000

0

12.00

12.10

Time-->



#48

t-1,3-Dichloropropene

Concen: 21.424 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057463.D

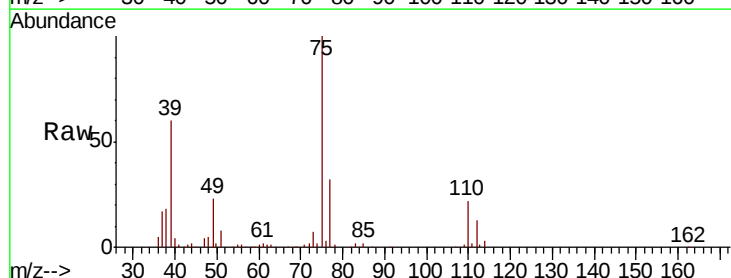
Acq: 23 Aug 2019 9:37

Tgt Ion: 75 Resp: 140973

Ion Ratio Lower Upper

75 100

77 32.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

80000

60000

40000

20000

0

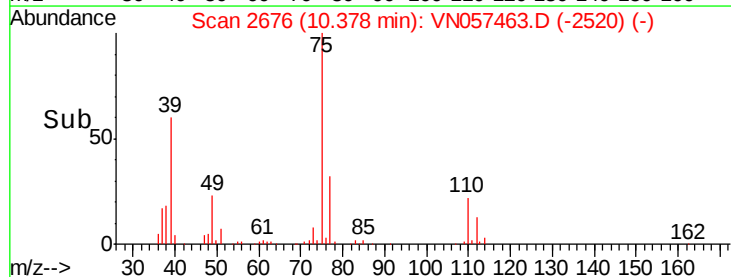
10.30

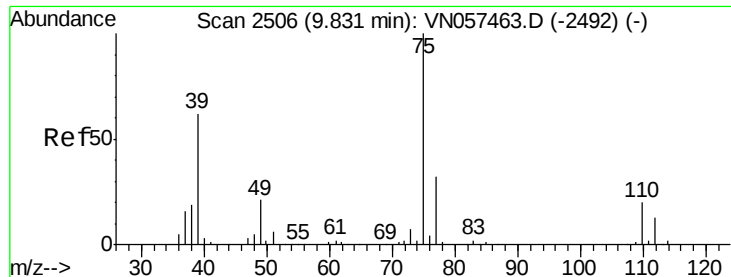
10.35

10.40

10.45

Time-->



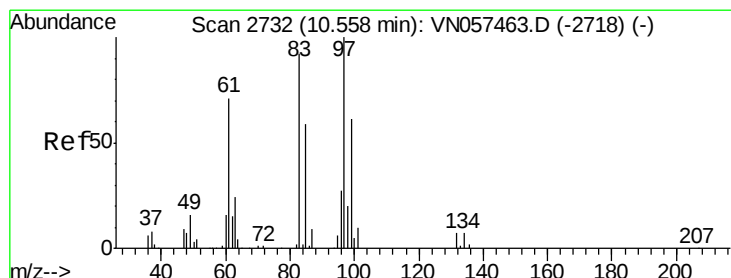
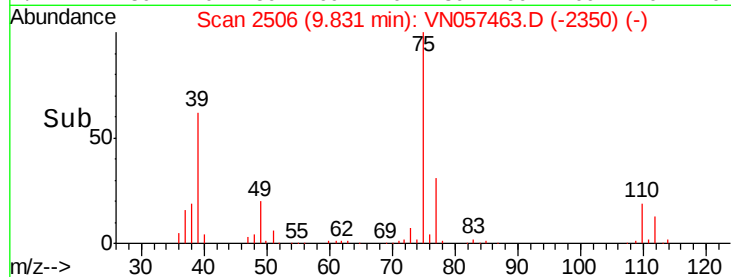
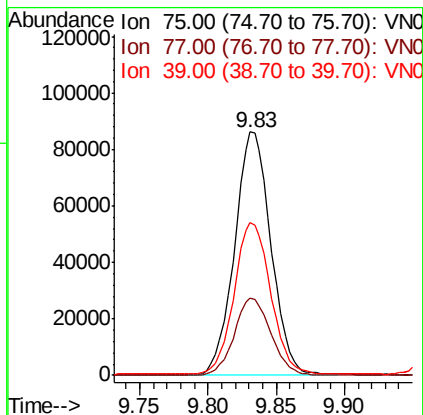
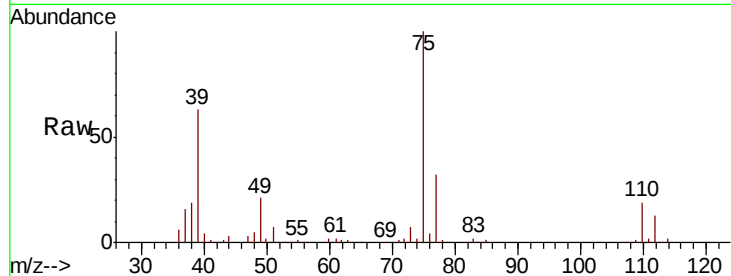


#49

cis-1,3-Dichloropropene  
 Concen: 21.776 ug/l  
 RT: 9.83 min Scan# 2506  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

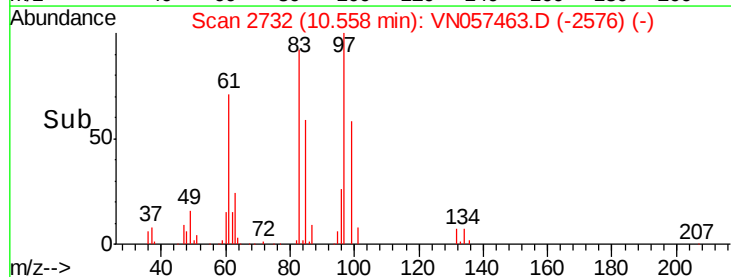
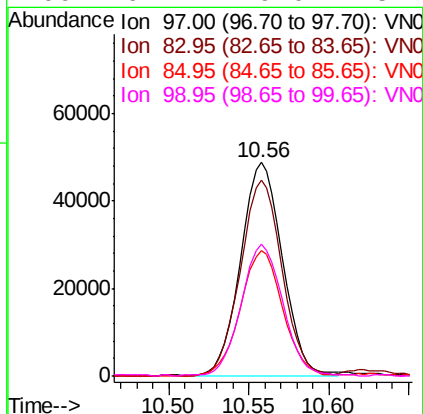
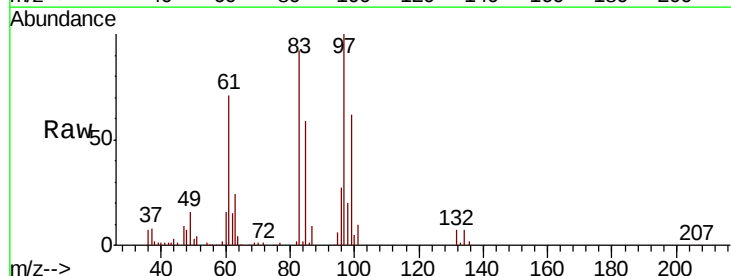
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.7  | 25.4  | 38.0  |
| 39      | 62.2  | 49.8  | 74.6  |

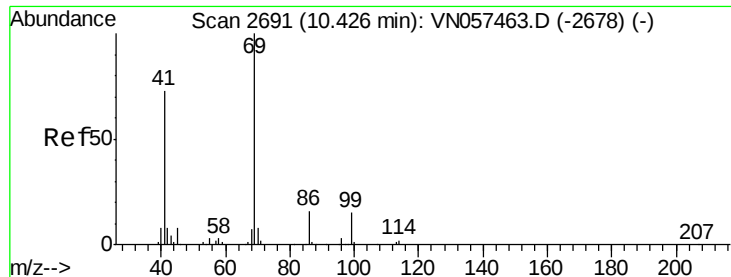


#50

1,1,2-Trichloroethane  
 Concen: 20.260 ug/l  
 RT: 10.56 min Scan# 2732  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 91.5  | 73.2  | 109.8 |
| 85      | 58.9  | 47.1  | 70.7  |
| 99      | 61.2  | 49.0  | 73.4  |





#51

Ethyl methacrylate

Concen: 21.702 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampled :

VSTDICCC020

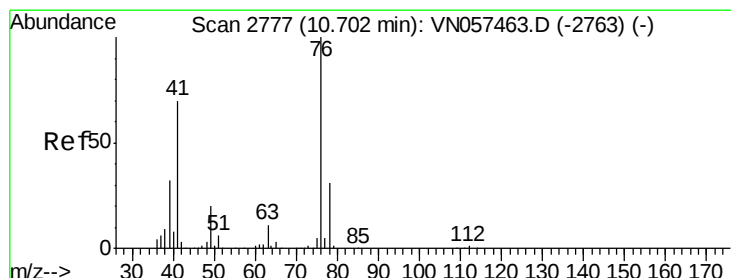
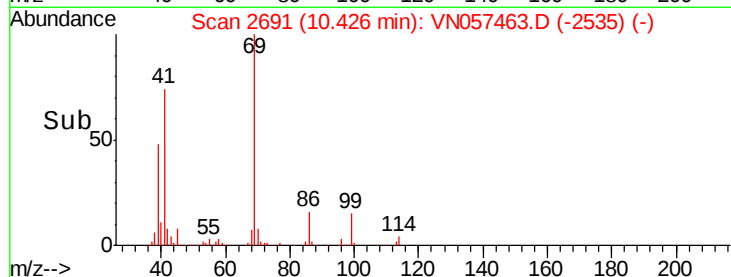
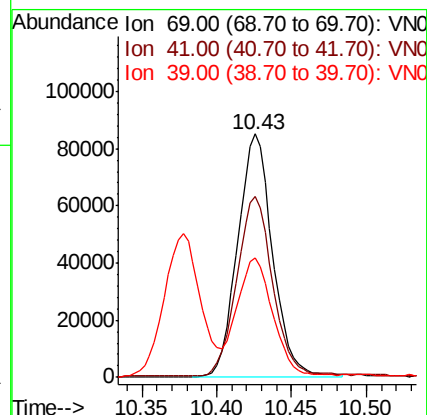
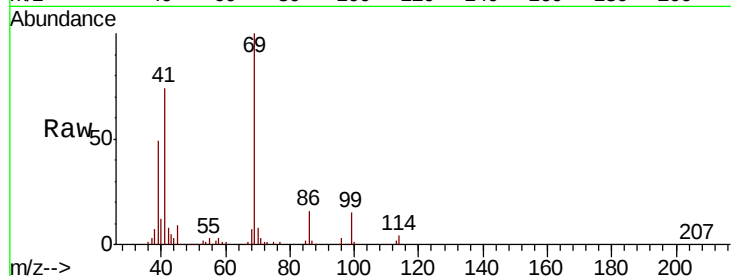
Tgt Ion: 69 Resp: 138700

Ion Ratio Lower Upper

69 100

41 73.3 37.0 111.1

39 47.9 24.4 73.4



#52

1,3-Dichloropropane

Concen: 22.138 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN057463.D

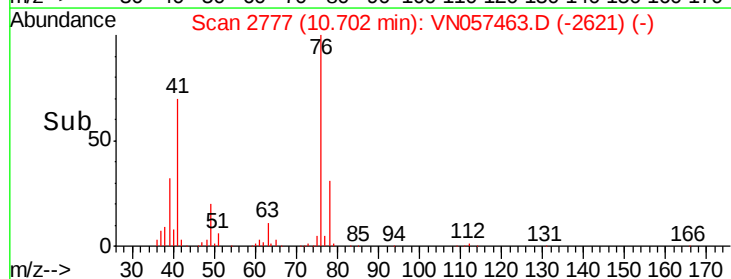
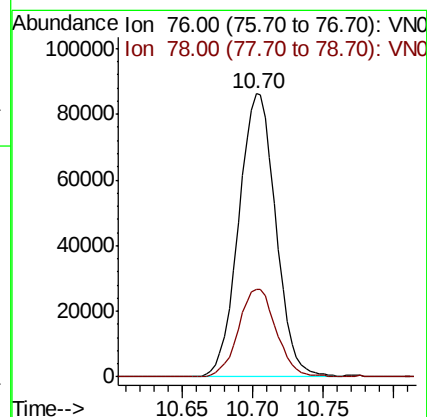
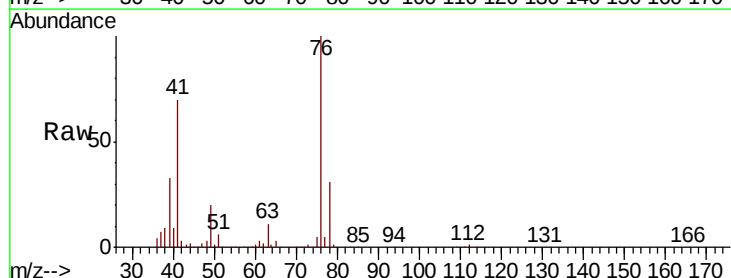
Acq: 23 Aug 2019 9:37

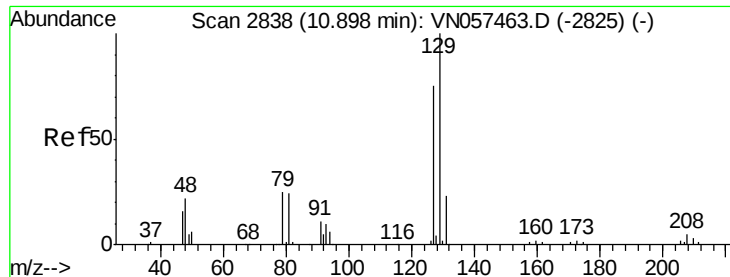
Tgt Ion: 76 Resp: 159006

Ion Ratio Lower Upper

76 100

78 31.5 0.0 63.0





#53

Dibromochloromethane

Concen: 18.618 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

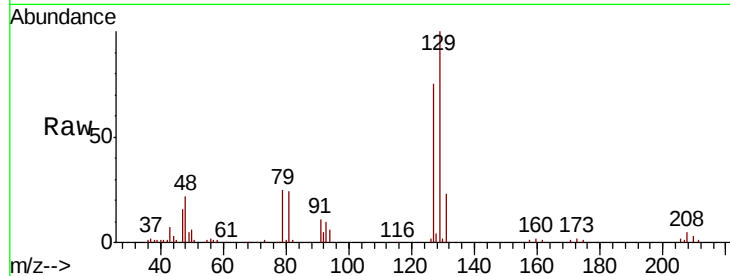
VSTDICCC020

Tgt Ion:129 Resp: 90402

Ion Ratio Lower Upper

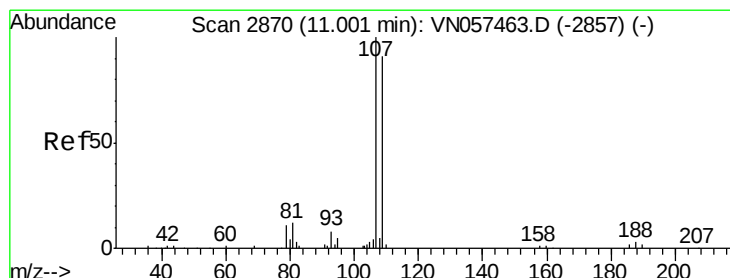
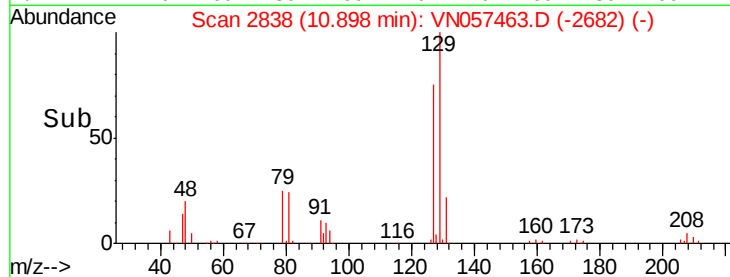
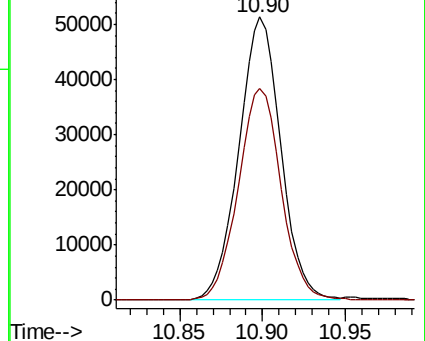
129 100

127 76.2 38.1 114.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 19.165 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VN057463.D

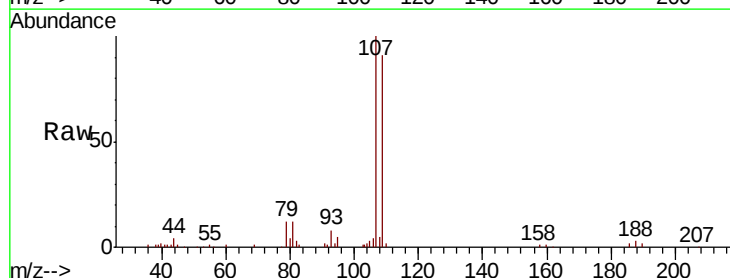
Acq: 23 Aug 2019 9:37

Tgt Ion:107 Resp: 85573

Ion Ratio Lower Upper

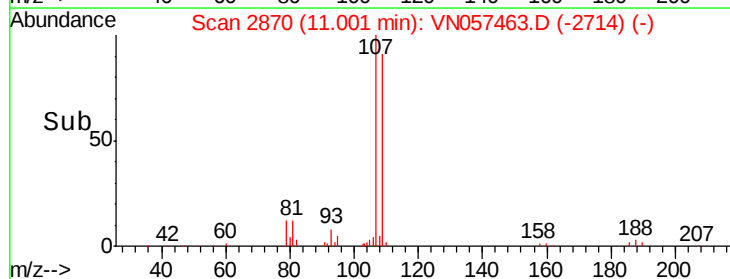
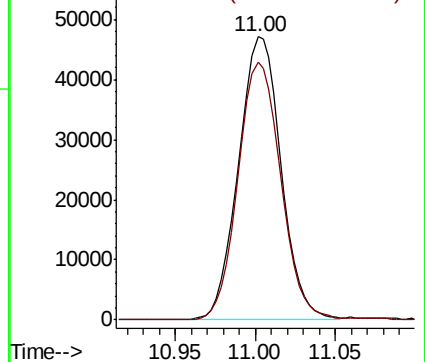
107 100

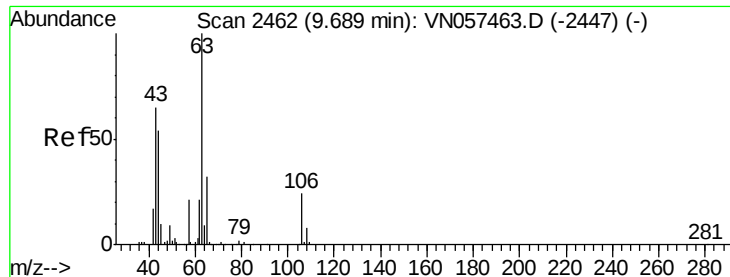
109 91.5 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

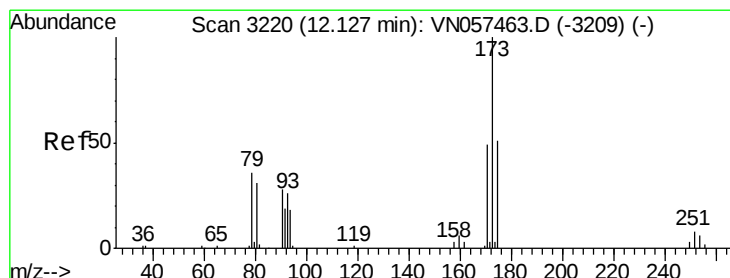
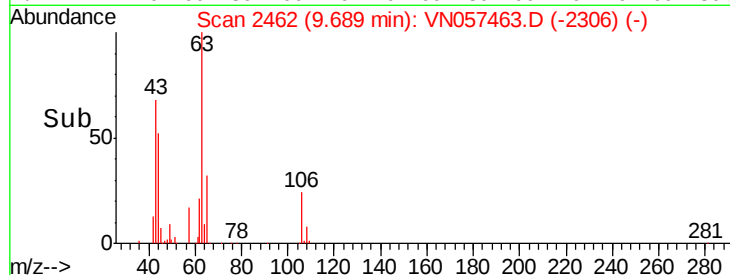
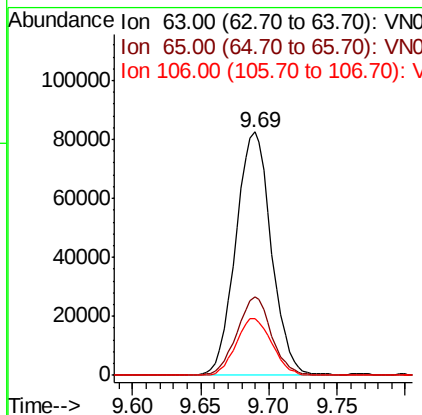
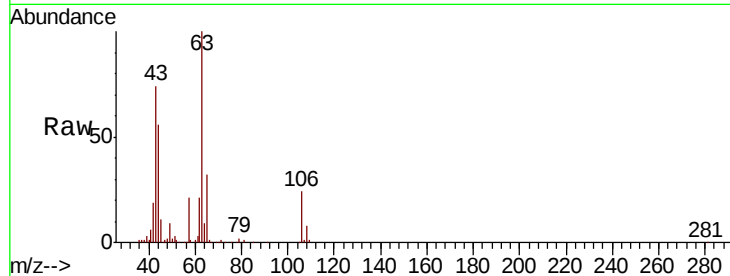




#55  
 2-Chloroethyl vinyl ether  
 Concen: 100.074 ug/l  
 RT: 9.69 min Scan# 2462  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

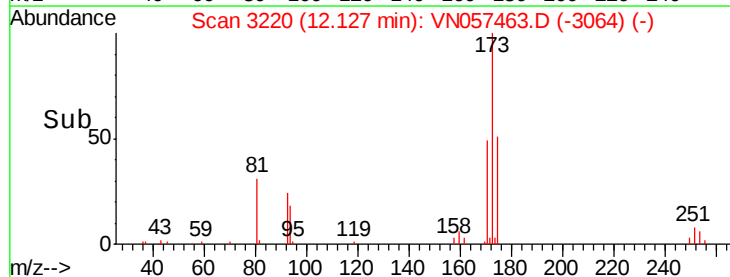
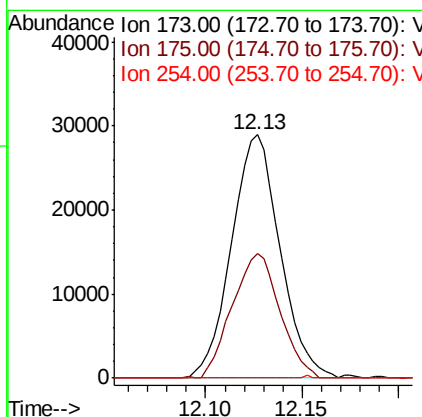
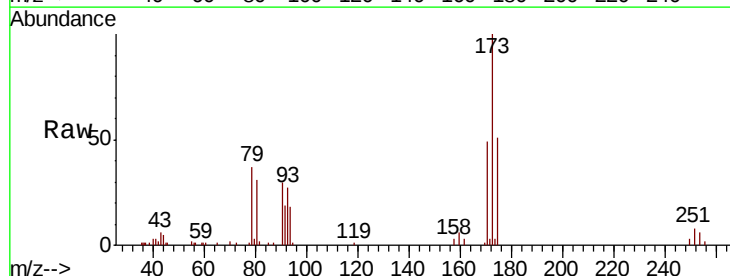
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

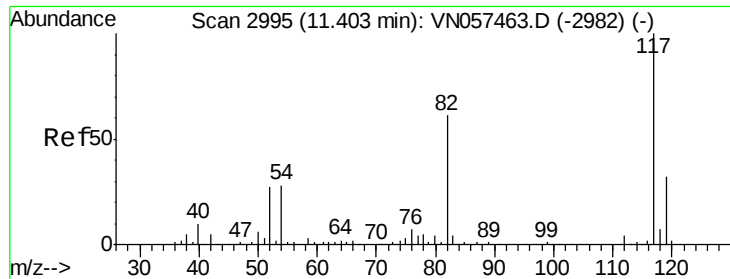
Tgt Ion: 63 Resp: 149444  
 Ion Ratio Lower Upper  
 63 100  
 65 31.4 25.1 37.7  
 106 23.4 18.7 28.1



#56  
 Bromoform  
 Concen: 14.288 ug/l  
 RT: 12.13 min Scan# 3220  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion: 173 Resp: 50486  
 Ion Ratio Lower Upper  
 173 100  
 175 50.1 40.1 60.1  
 254 0.0 0.0 0.0

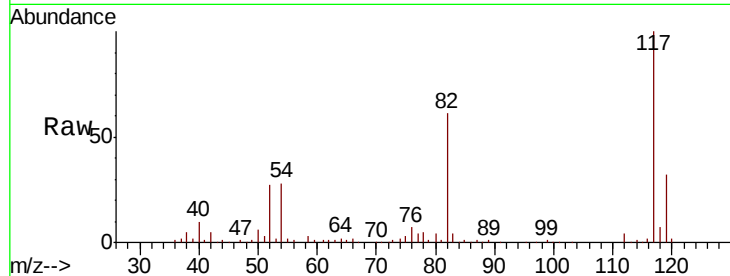




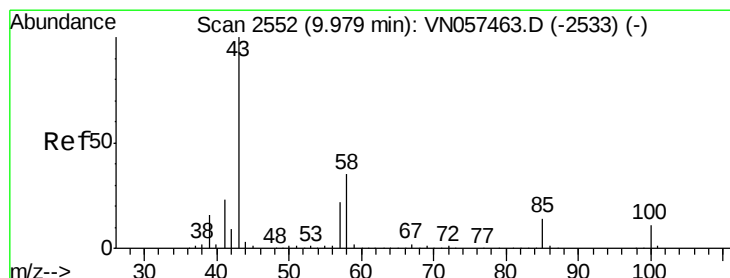
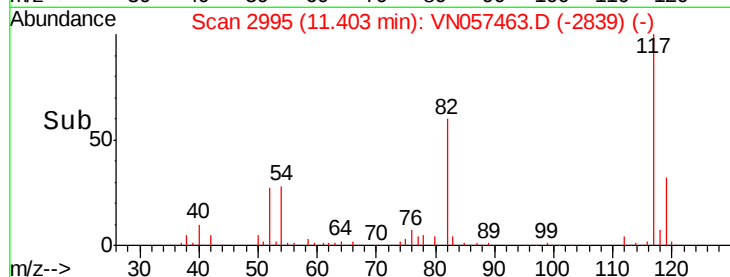
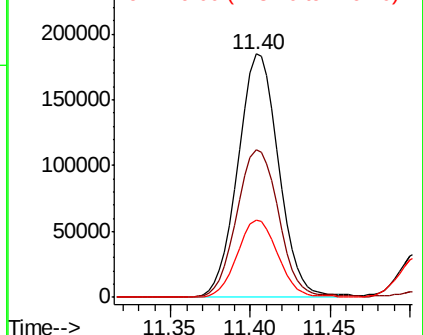
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.40 min Scan# 2995  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

Tgt Ion: 117 Resp: 321641  
Ion Ratio Lower Upper  
117 100  
82 63.0 50.4 75.6  
119 31.8 25.4 38.2

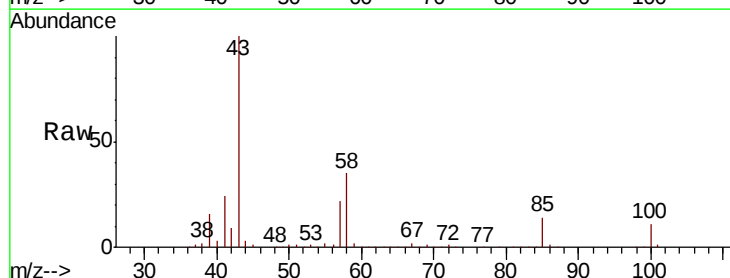


Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): VN  
Ion 119.00 (118.70 to 119.70): V

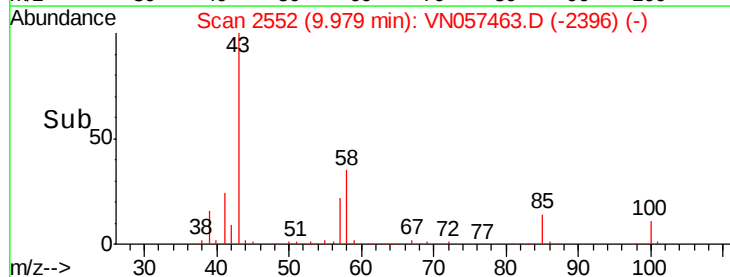
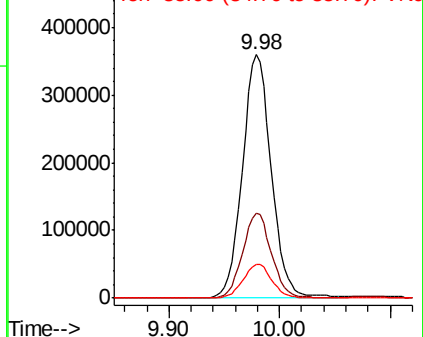


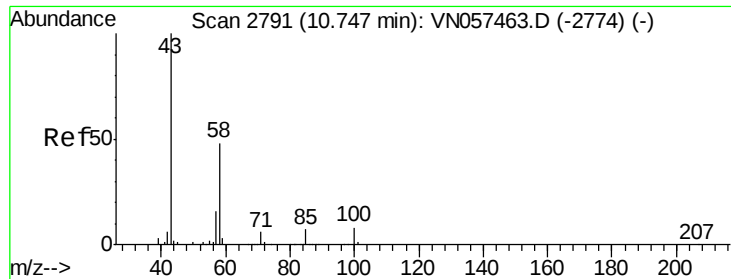
#58  
4-Methyl-2-Pentanone  
Concen: 139.644 ug/l  
RT: 9.98 min Scan# 2552  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 43 Resp: 646063  
Ion Ratio Lower Upper  
43 100  
58 35.0 28.0 42.0  
85 14.1 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 58.00 (57.70 to 58.70): VN  
Ion 85.00 (84.70 to 85.70): VN

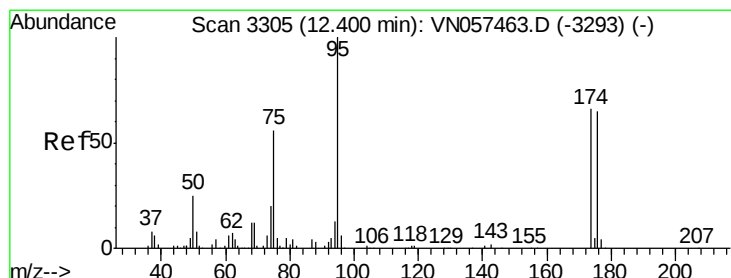
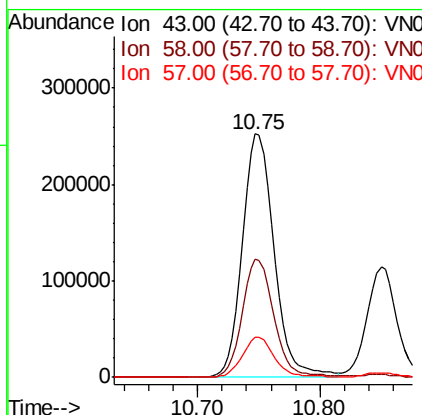
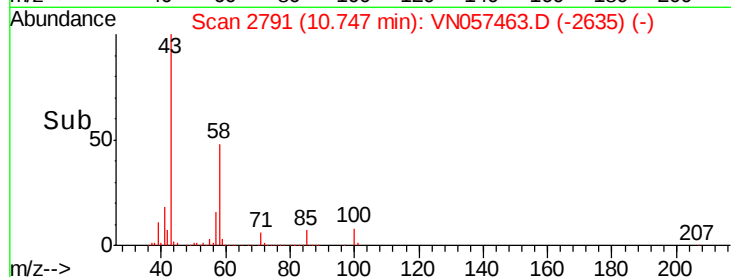
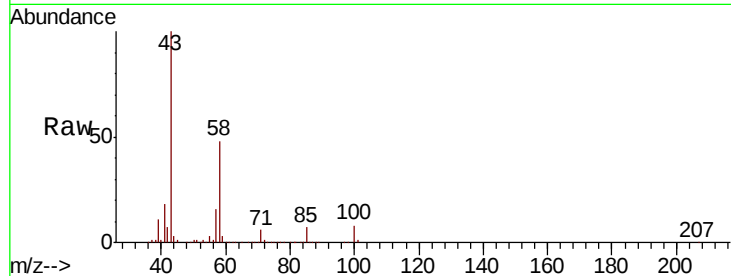




#59  
2-Hexanone  
Concen: 136.605 ug/l  
RT: 10.75 min Scan# 2791  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

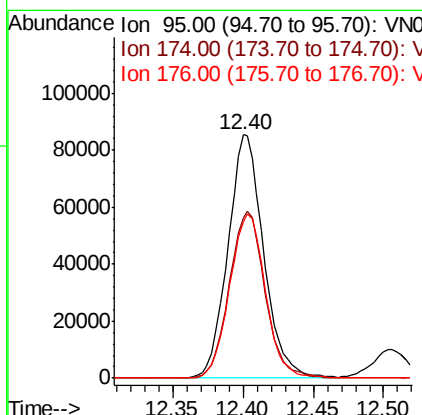
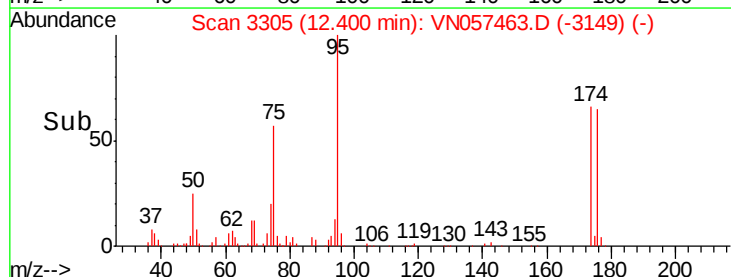
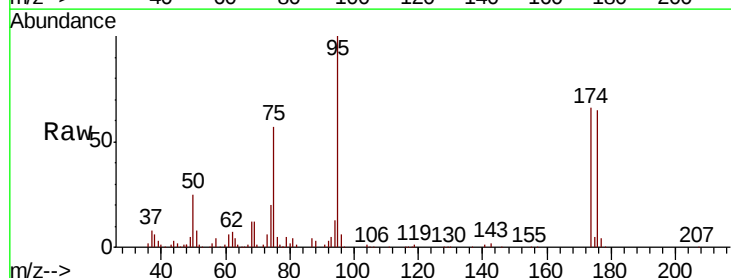
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

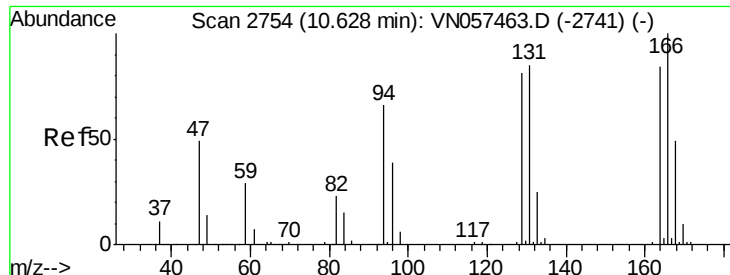
Tgt Ion: 43 Resp: 449750  
Ion Ratio Lower Upper  
43 100  
58 48.6 38.9 58.3  
57 16.2 13.0 19.4



#60  
4-Bromofluorobenzene  
Concen: 31.345 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion: 95 Resp: 150926  
Ion Ratio Lower Upper  
95 100  
174 68.6 54.9 82.3  
176 67.8 54.2 81.4





#61

Tetrachloroethene

Concen: 16.993 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

Tgt Ion:164 Resp: 75730

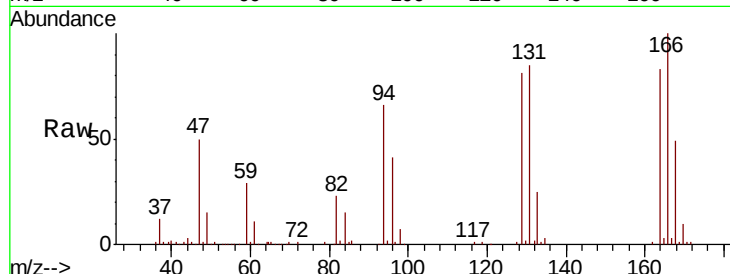
Ion Ratio Lower Upper

164 100

166 119.7 95.8 143.6

129 96.5 77.2 115.8

131 101.4 81.1 121.7

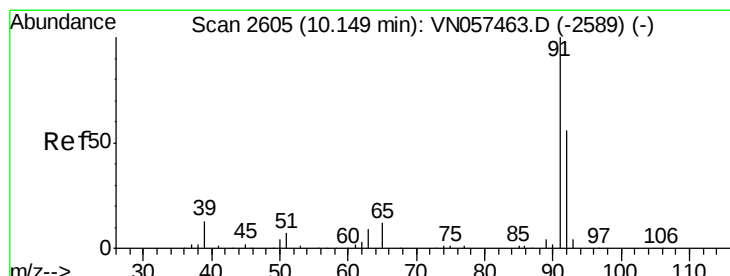
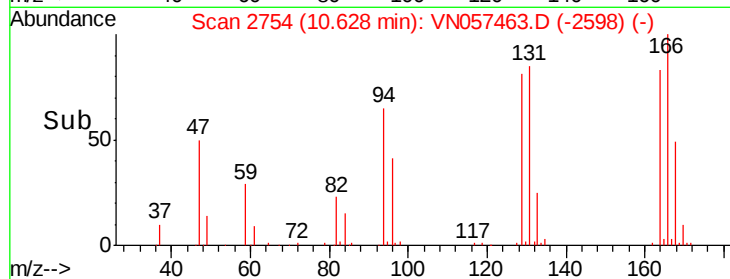
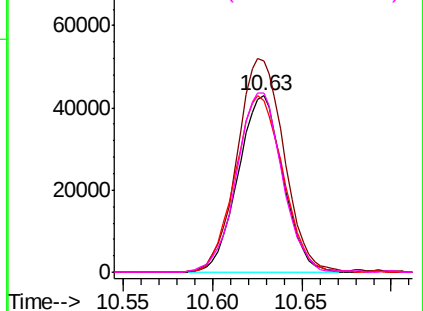


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 22.012 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057463.D

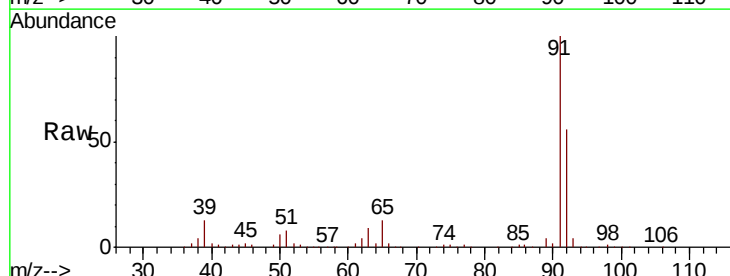
Acq: 23 Aug 2019 9:37

Tgt Ion: 91 Resp: 396553

Ion Ratio Lower Upper

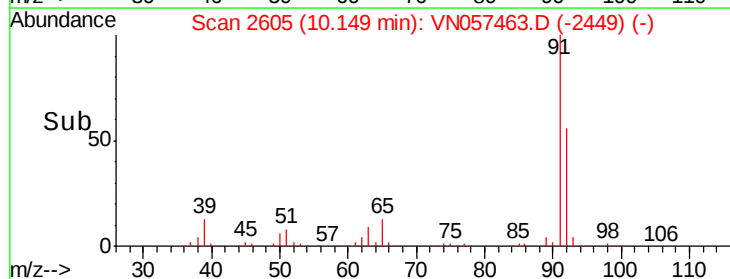
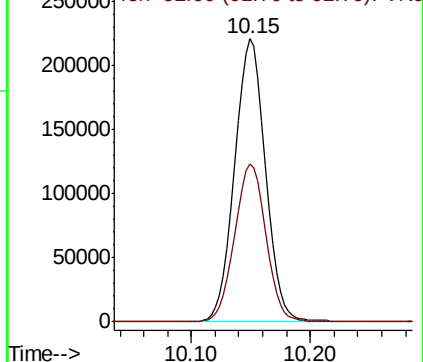
91 100

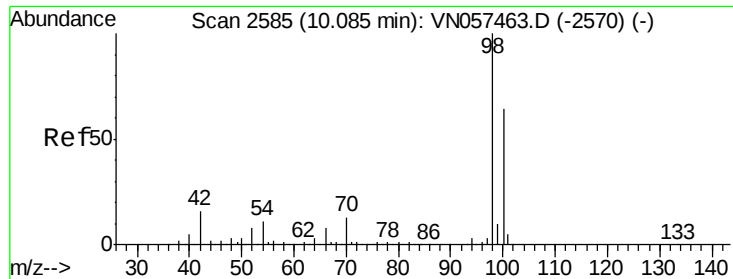
92 56.7 45.4 68.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 33.657 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

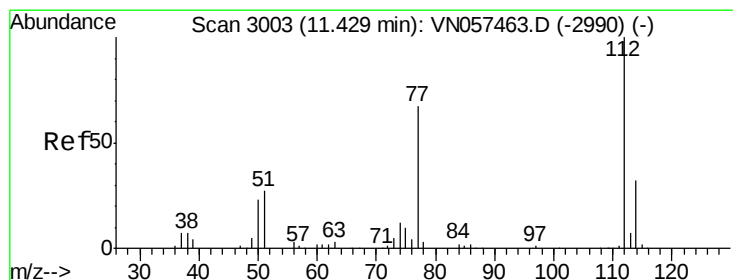
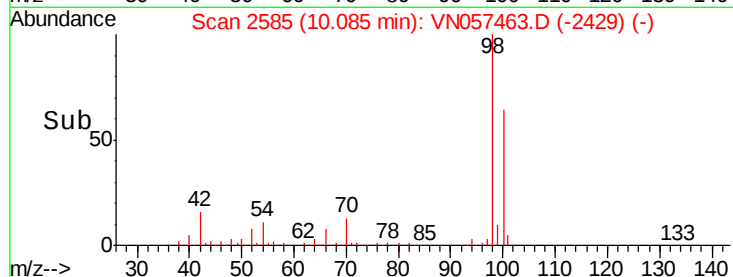
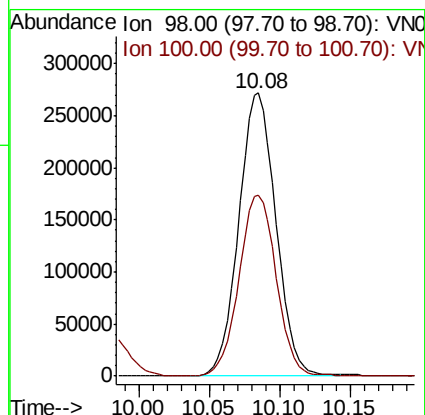
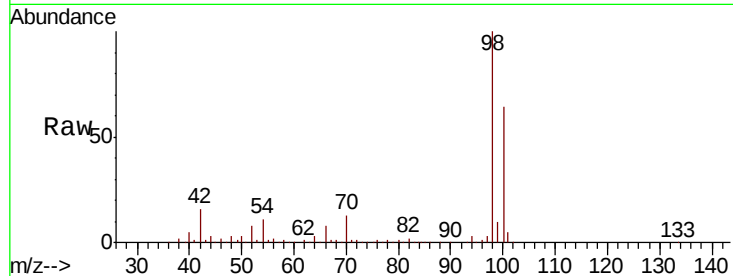
VSTDICCC020

Tgt Ion: 98 Resp: 500738

Ion Ratio Lower Upper

98 100

100 63.8 51.0 76.6



#64

Chlorobenzene

Concen: 19.203 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057463.D

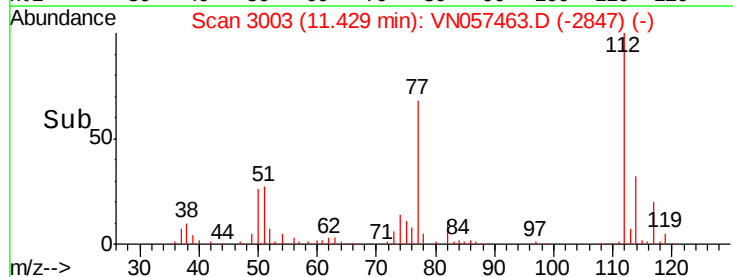
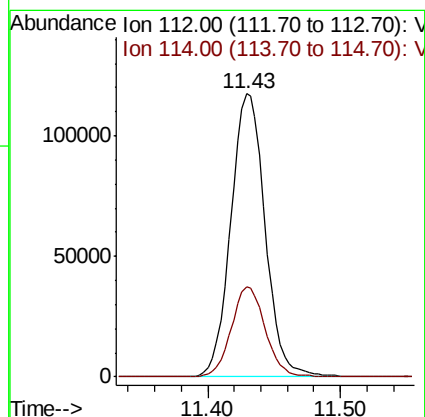
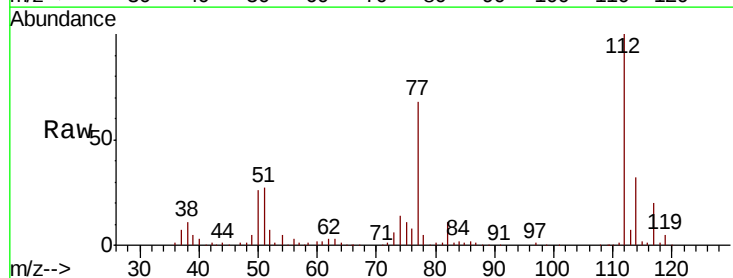
Acq: 23 Aug 2019 9:37

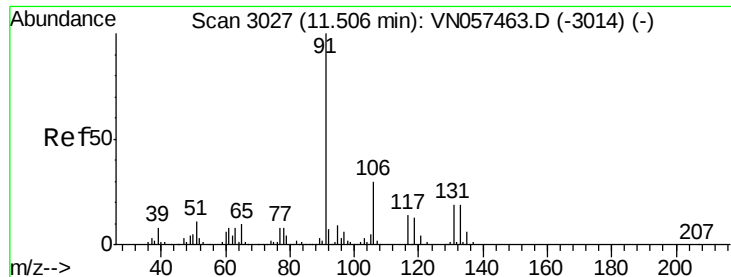
Tgt Ion: 112 Resp: 211123

Ion Ratio Lower Upper

112 100

114 32.0 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 18.997 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

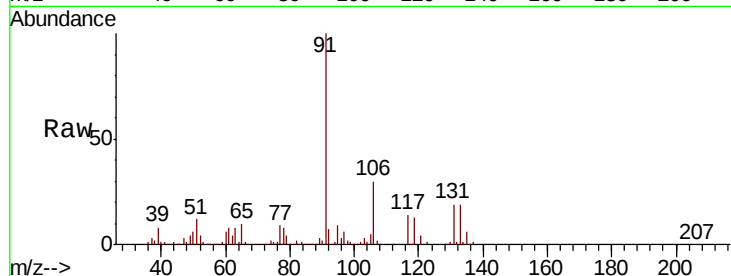
Tgt Ion:131 Resp: 80454

Ion Ratio Lower Upper

131 100

133 96.8 0.0 193.6

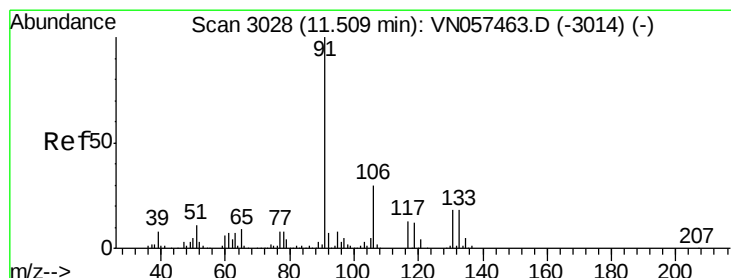
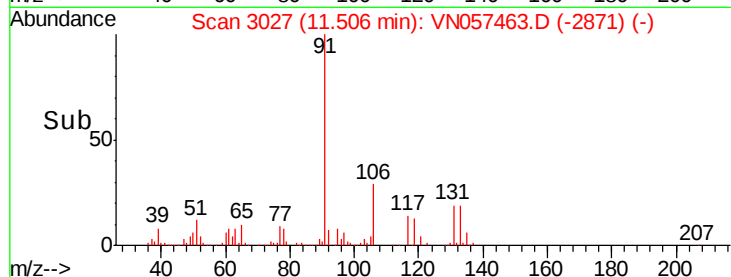
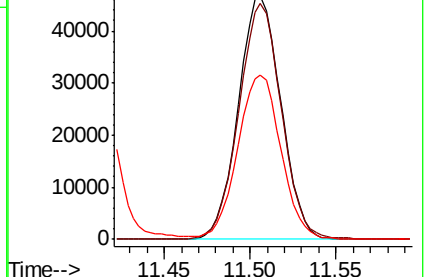
119 68.7 0.0 137.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 21.266 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057463.D

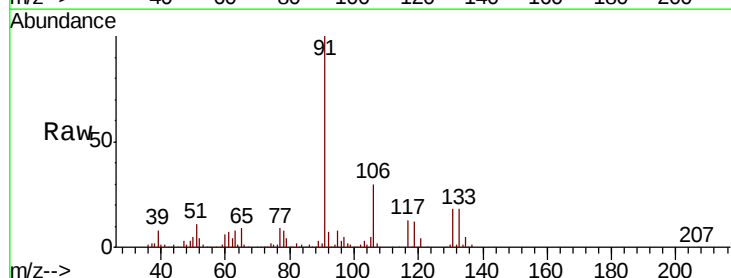
Acq: 23 Aug 2019 9:37

Tgt Ion: 91 Resp: 416474

Ion Ratio Lower Upper

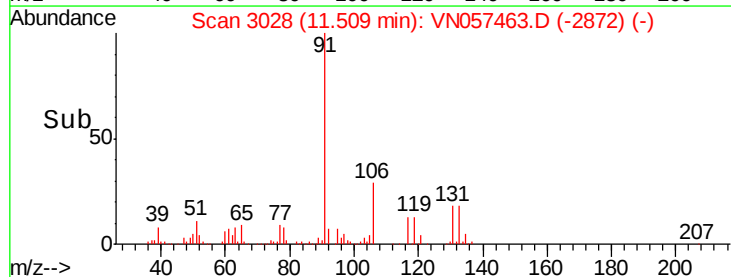
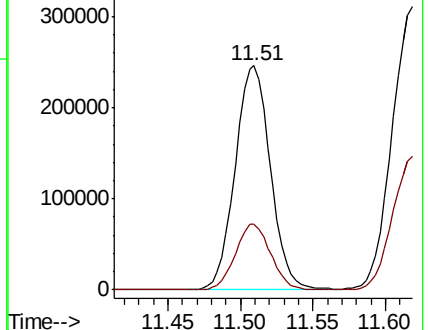
91 100

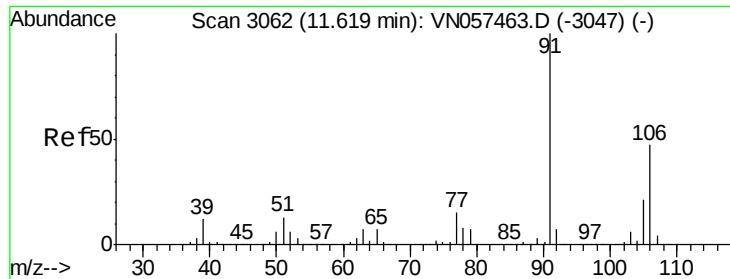
106 29.5 23.6 35.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

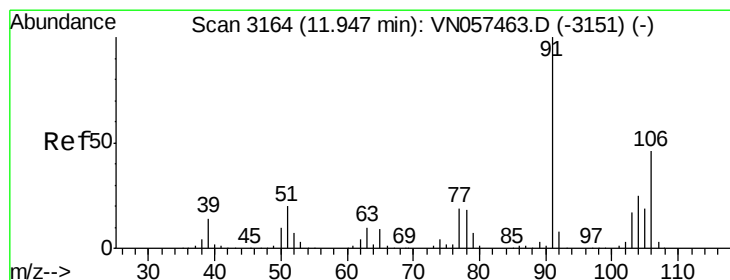
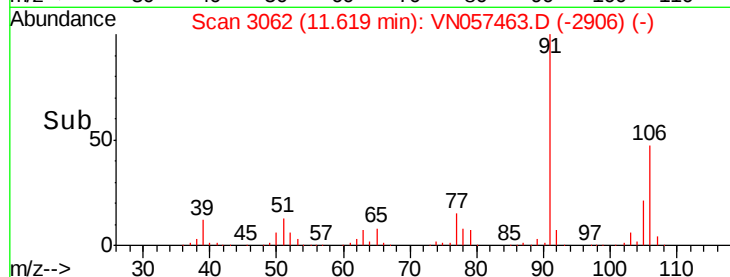
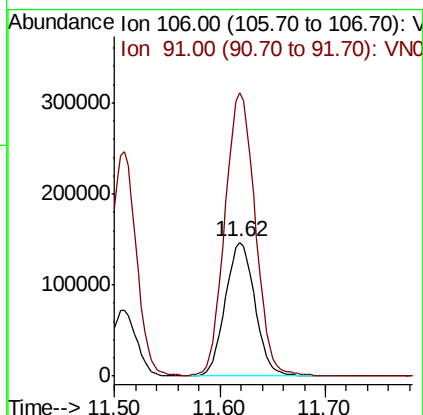
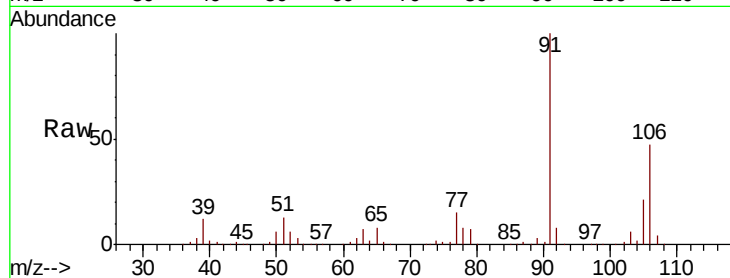




#67  
m/p-Xylenes  
Concen: 39.797 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

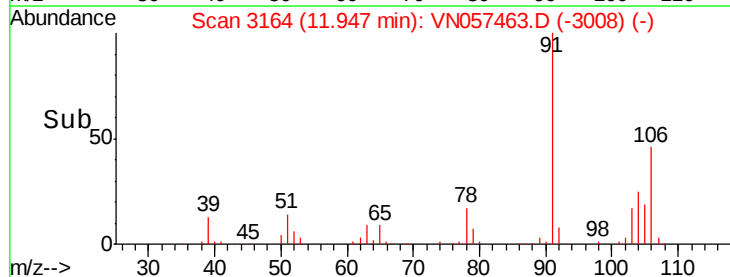
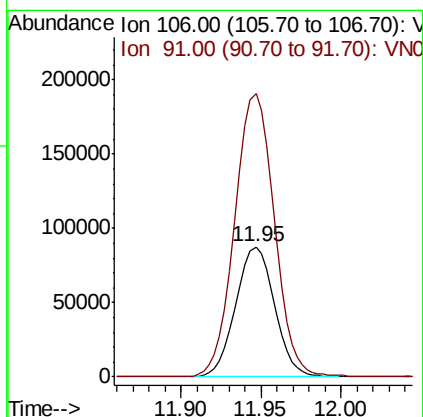
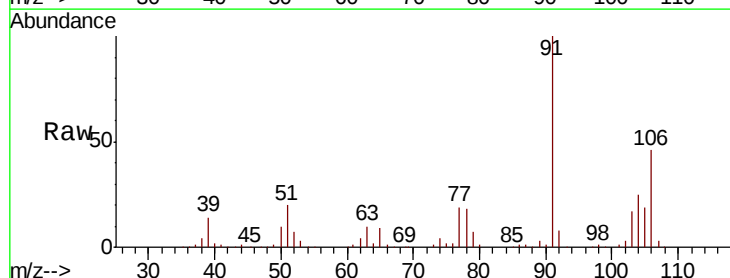
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

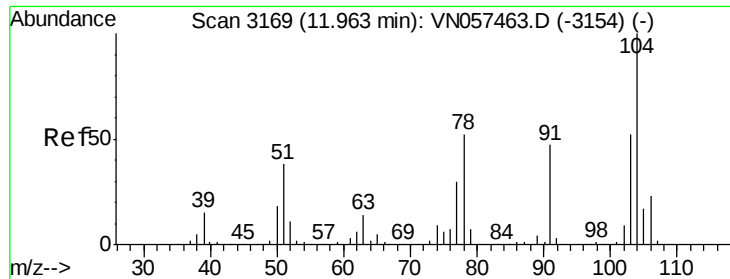
Tgt Ion:106 Resp: 286646  
Ion Ratio Lower Upper  
106 100  
91 216.1 172.9 259.3



#68  
o-Xylene  
Concen: 20.471 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion:106 Resp: 145047  
Ion Ratio Lower Upper  
106 100  
91 222.3 111.1 333.4

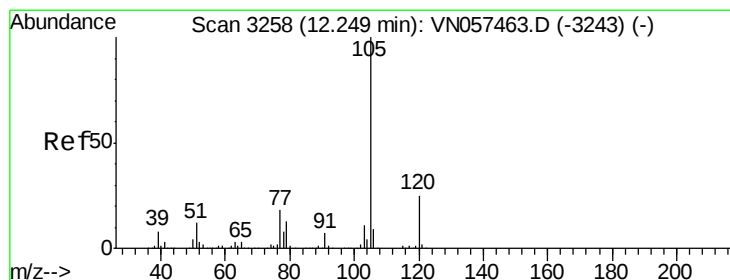
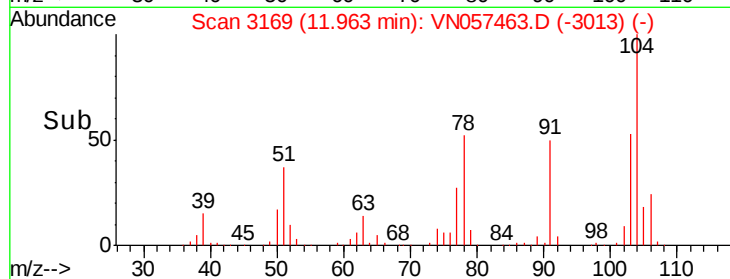
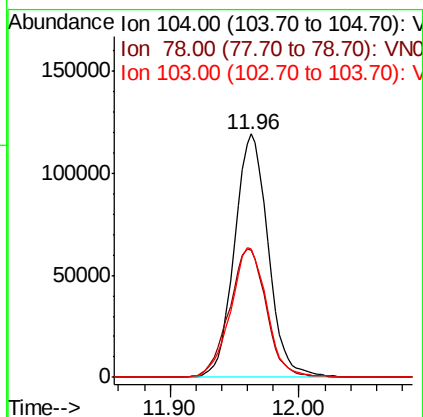
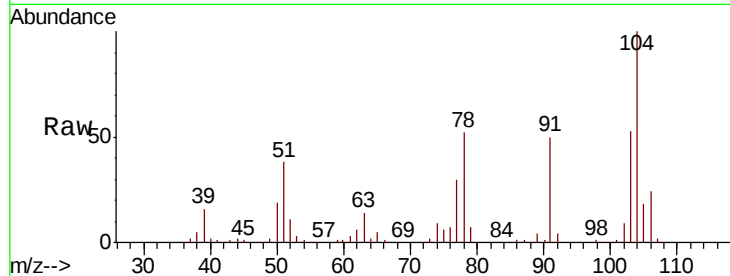




#69  
Styrene  
Concen: 19.203 ug/l  
RT: 11.96 min Scan# 3169  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

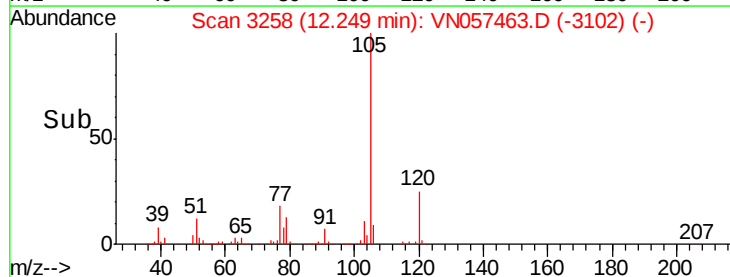
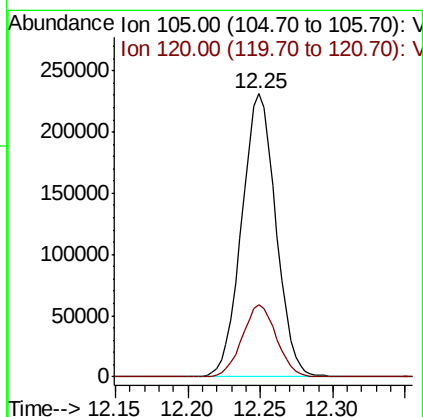
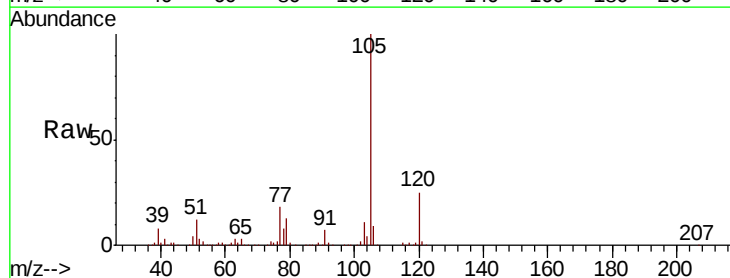
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

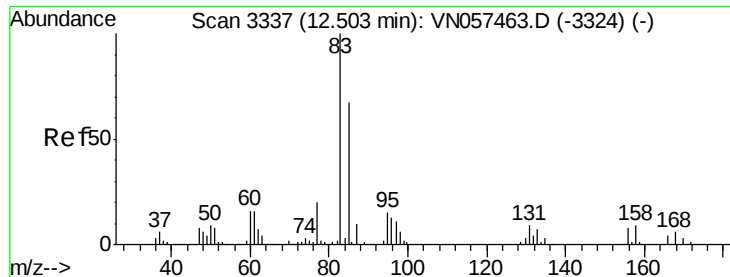
Tgt Ion:104 Resp: 217019  
Ion Ratio Lower Upper  
104 100  
78 58.1 46.5 69.7  
103 57.4 45.9 68.9



#70  
Isopropylbenzene  
Concen: 20.063 ug/l  
RT: 12.25 min Scan# 3258  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion:105 Resp: 379378  
Ion Ratio Lower Upper  
105 100  
120 25.5 17.8 33.1

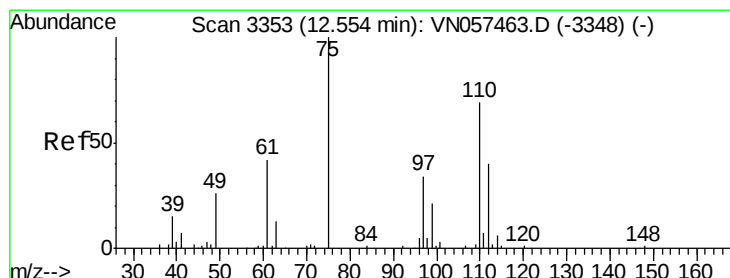
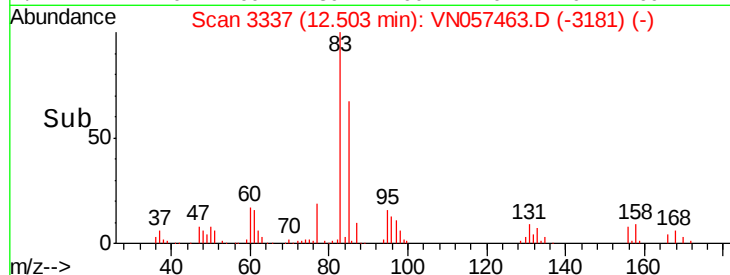
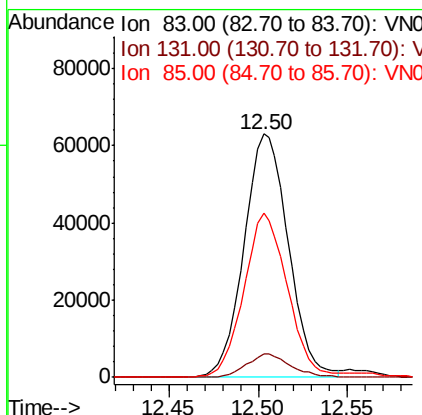
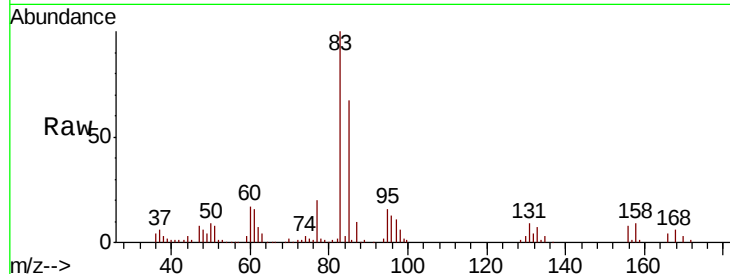




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.935 ug/l  
 RT: 12.50 min Scan# 3337  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

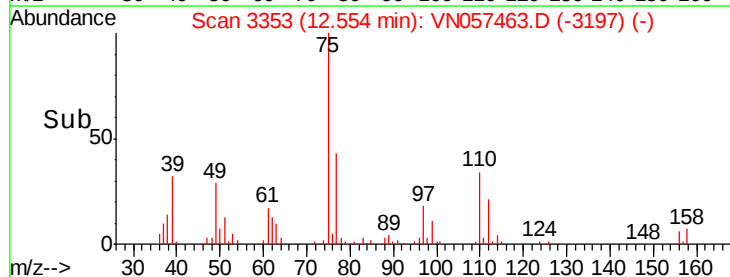
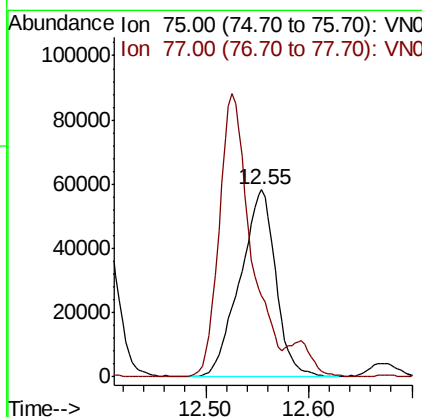
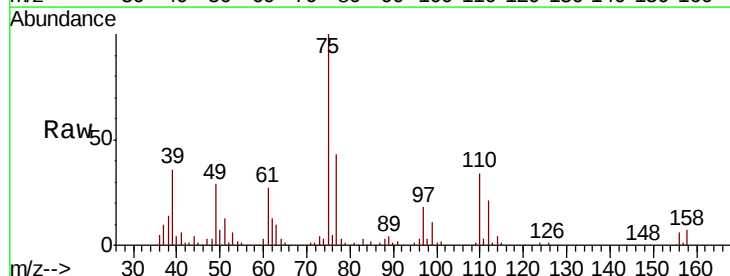
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

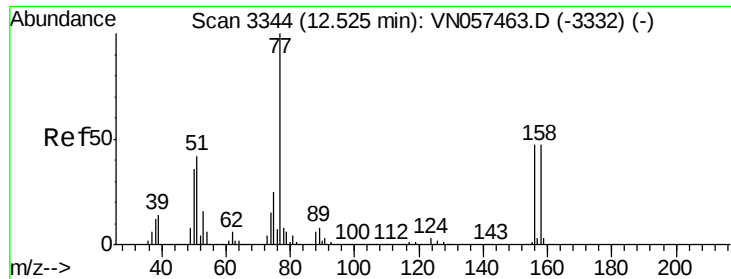
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 9.4   | 4.7   | 14.1  |
| 85      | 66.1  | 33.1  | 99.2  |



#72  
 1,2,3-Trichloropropane  
 Concen: 31.258 ug/l  
 RT: 12.55 min Scan# 3353  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 134.1 | 0.0   | 380.2 |





#73

Bromobenzene

Concen: 15.489 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampled :

VSTDICCC020

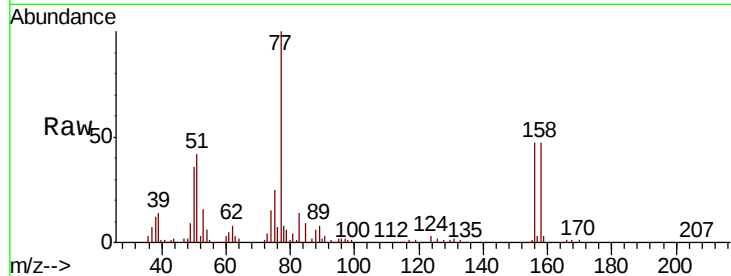
Tgt Ion:156 Resp: 74273

Ion Ratio Lower Upper

156 100

77 253.4 0.0 506.8

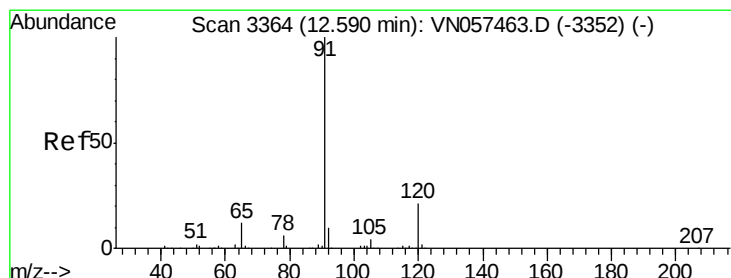
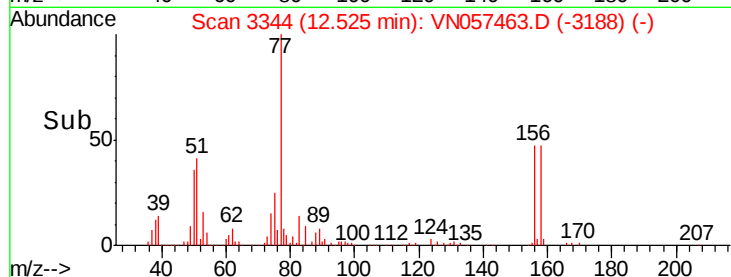
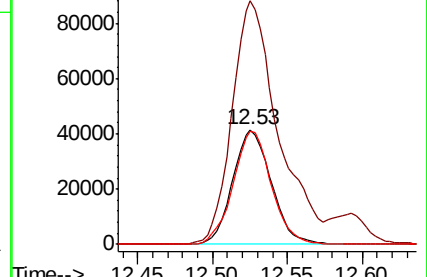
158 98.3 0.0 196.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.733 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057463.D

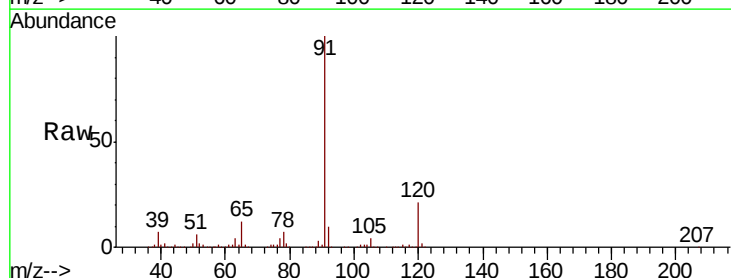
Acq: 23 Aug 2019 9:37

Tgt Ion: 91 Resp: 415678

Ion Ratio Lower Upper

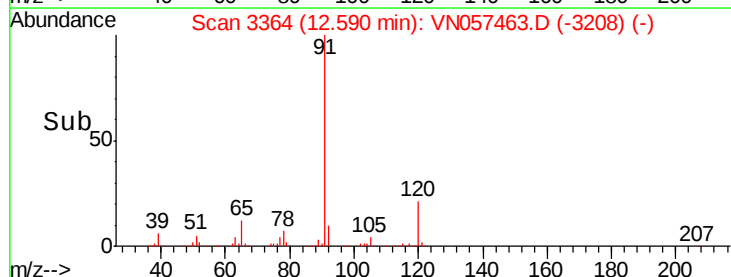
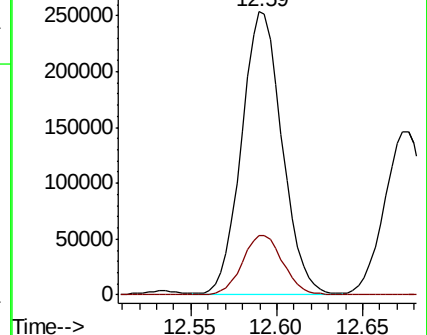
91 100

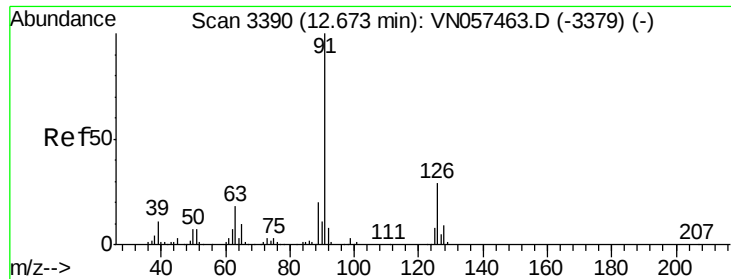
120 21.1 0.0 42.2



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.476 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

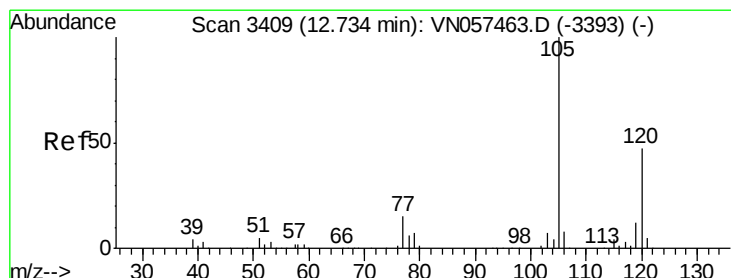
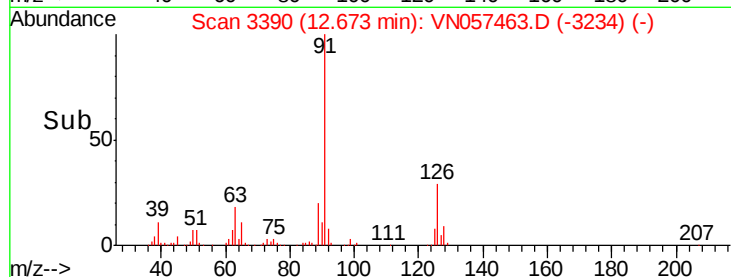
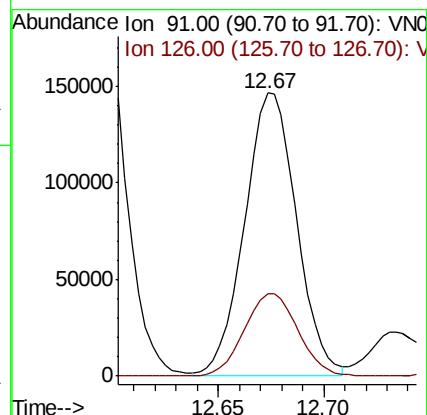
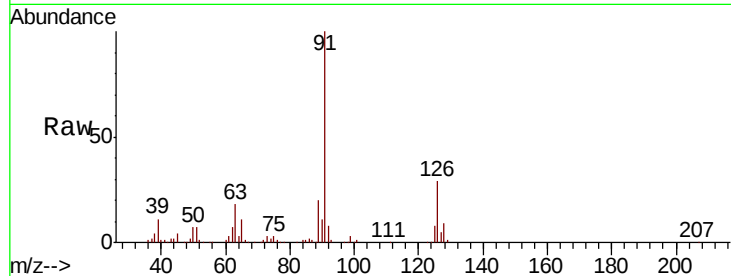
VSTDICCC020

Tgt Ion: 91 Resp: 251777

Ion Ratio Lower Upper

91 100

126 30.2 0.0 60.4



#76

1,3,5-Trimethylbenzene

Concen: 19.758 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057463.D

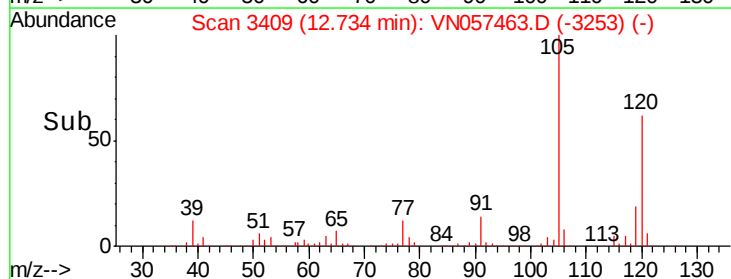
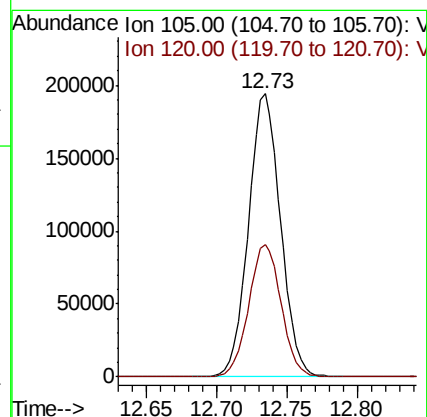
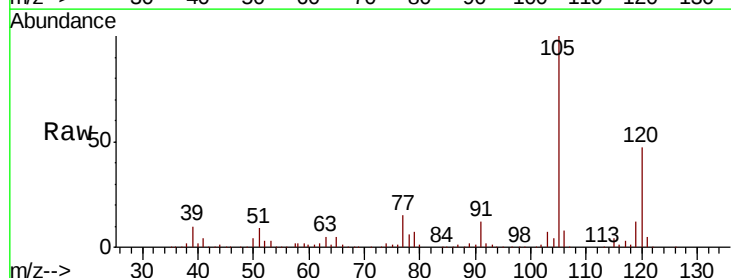
Acq: 23 Aug 2019 9:37

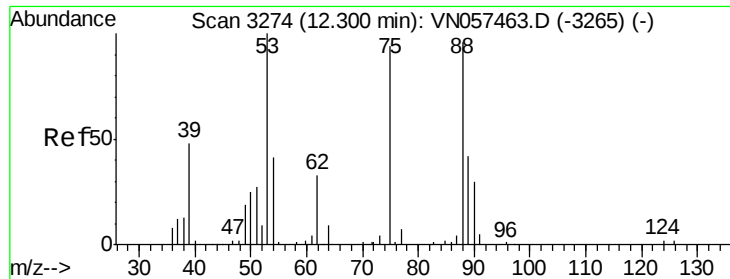
Tgt Ion: 105 Resp: 309871

Ion Ratio Lower Upper

105 100

120 47.2 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 20.115 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

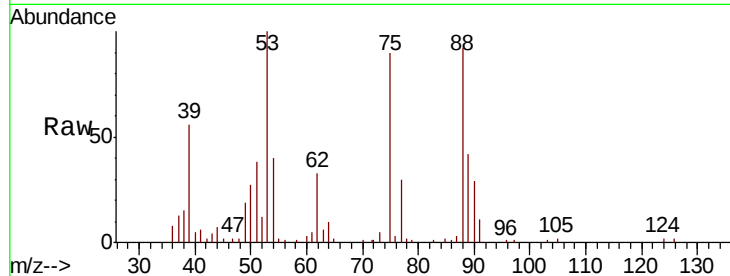
Tgt Ion: 75 Resp: 34488

Ion Ratio Lower Upper

75 100

53 111.3 55.6 166.9

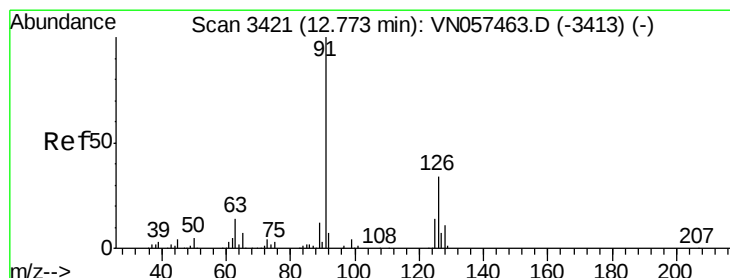
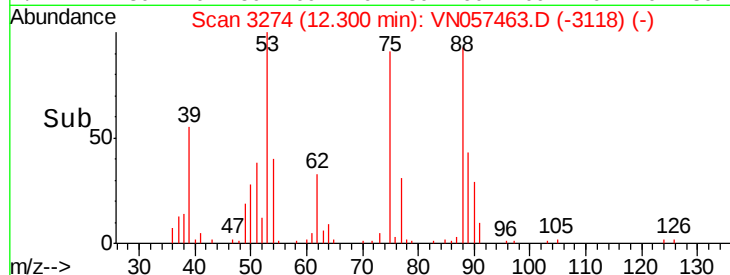
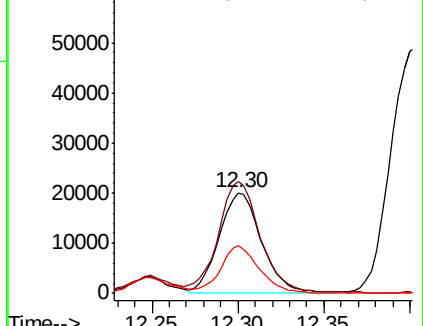
89 47.6 23.8 71.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 19.303 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN057463.D

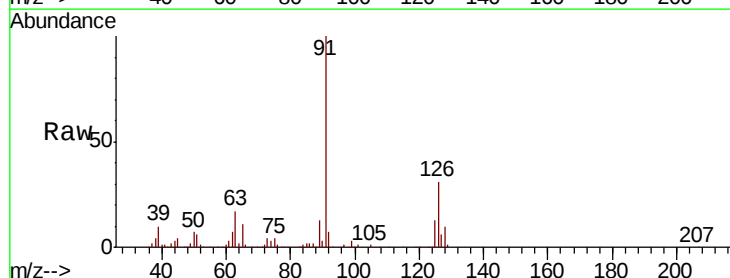
Acq: 23 Aug 2019 9:37

Tgt Ion: 91 Resp: 222665

Ion Ratio Lower Upper

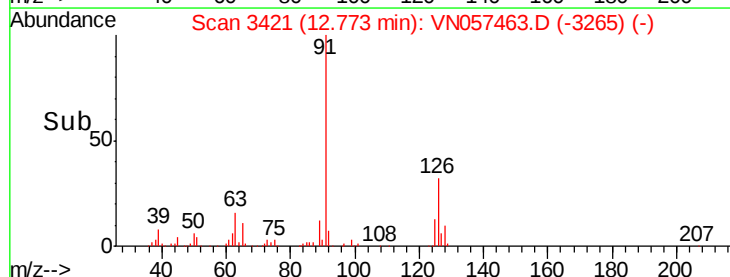
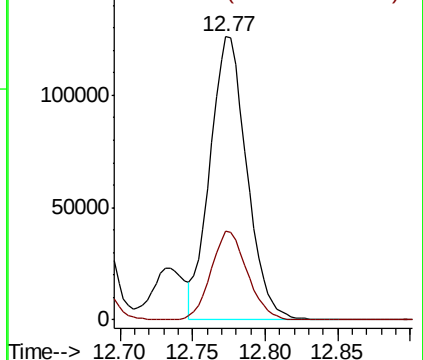
91 100

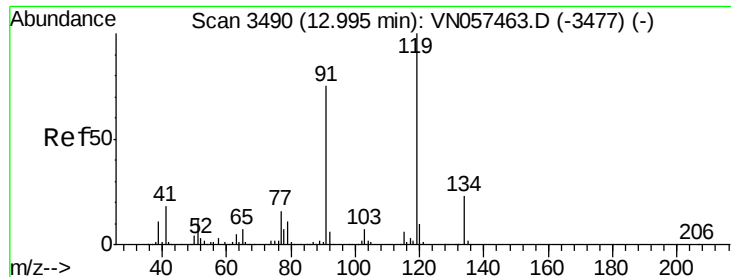
126 30.8 0.0 61.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

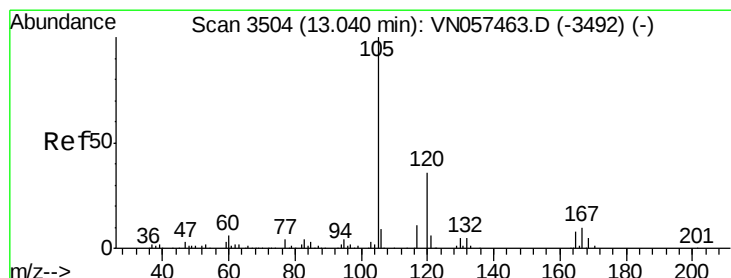
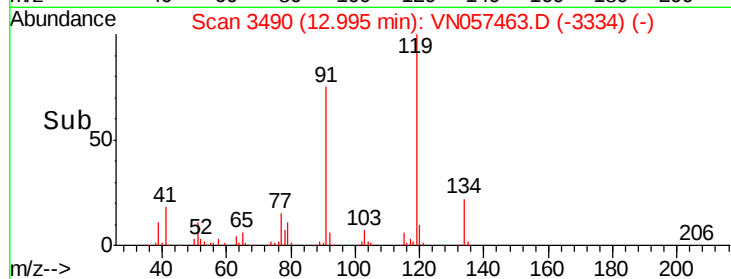
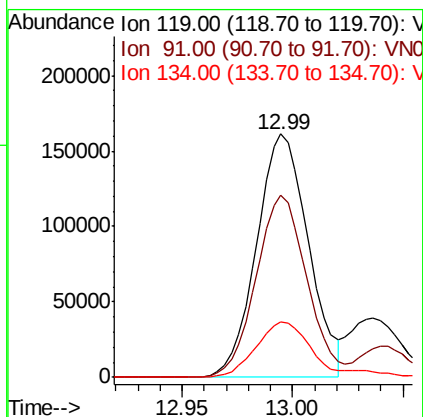
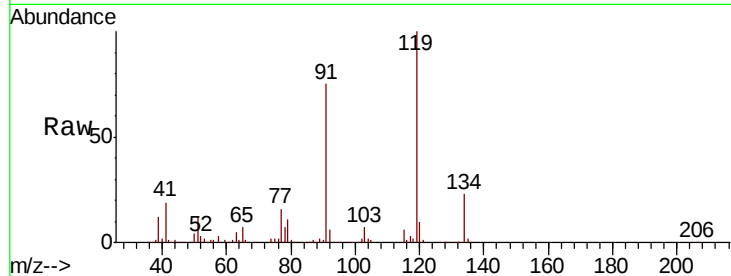




#79  
tert-butylbenzene  
Concen: 19.022 ug/l  
RT: 12.99 min Scan# 3490  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

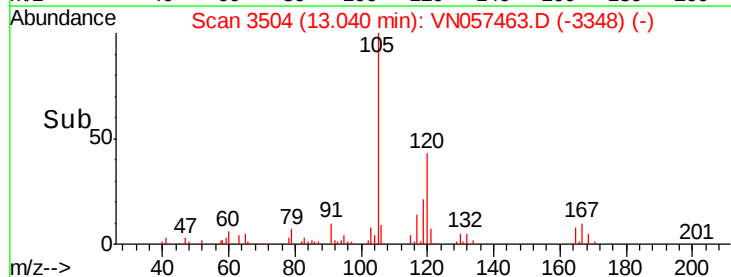
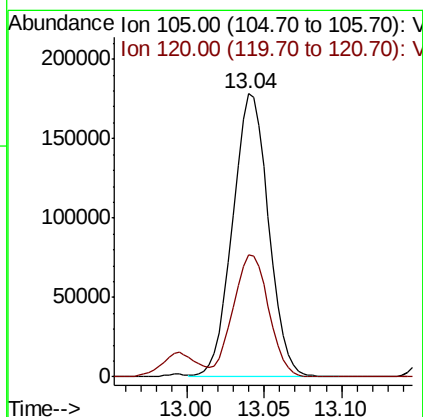
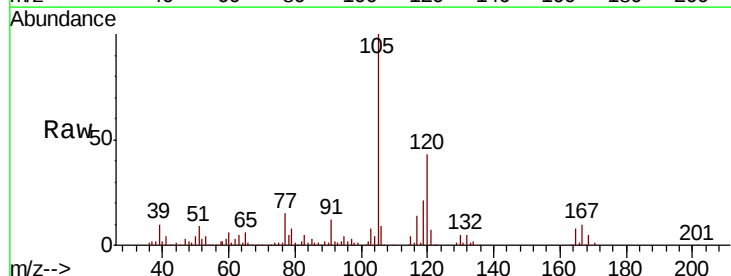
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICCC020

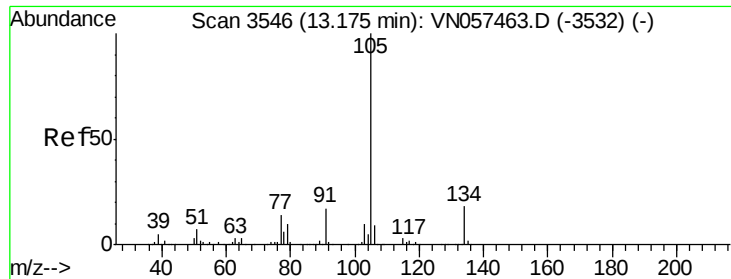
Tgt Ion:119 Resp: 263810  
Ion Ratio Lower Upper  
119 100  
91 73.3 0.0 146.6  
134 23.1 0.0 46.2



#80  
1,2,4-Trimethylbenzene  
Concen: 19.436 ug/l  
RT: 13.04 min Scan# 3504  
Delta R.T. 0.00 min  
Lab File: VN057463.D  
Acq: 23 Aug 2019 9:37

Tgt Ion:105 Resp: 287672  
Ion Ratio Lower Upper  
105 100  
120 42.7 0.0 85.4

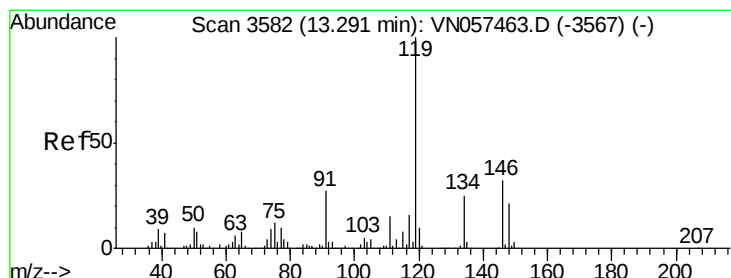
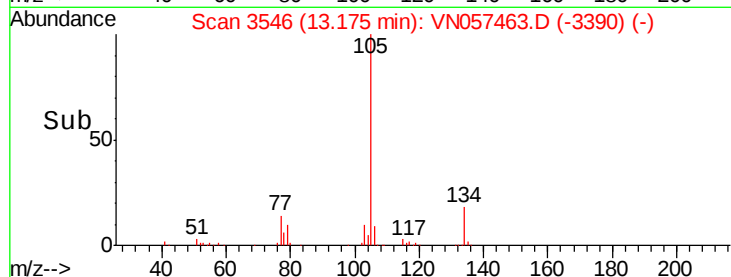
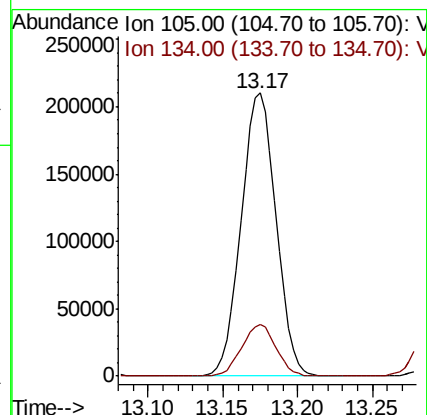
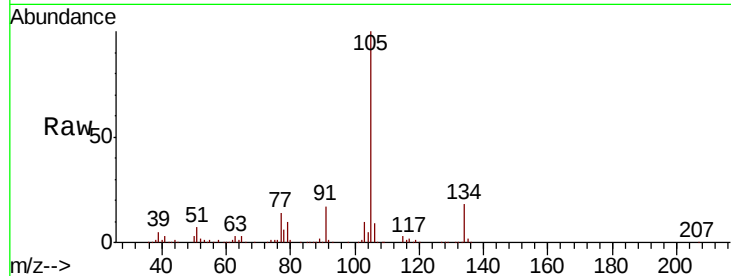




#81  
 sec-Butylbenzene  
 Concen: 19.606 ug/l  
 RT: 13.17 min Scan# 3546  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

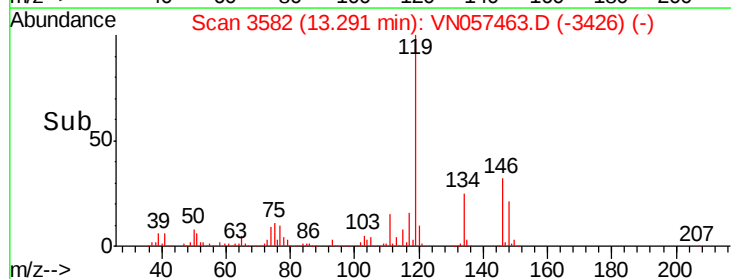
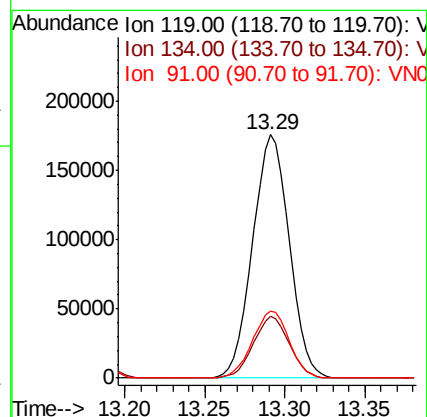
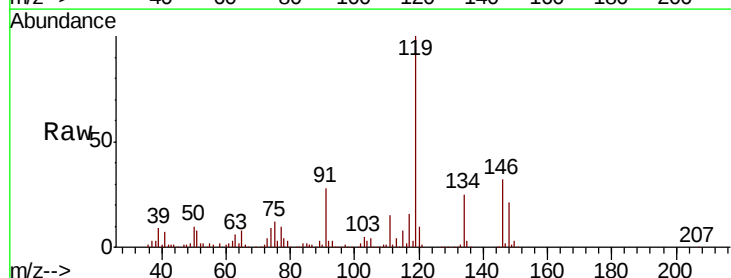
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

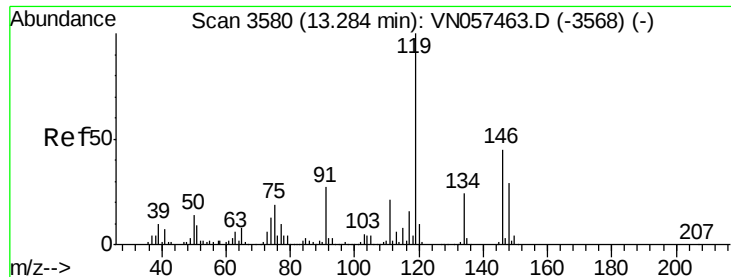
Tgt Ion:105 Resp: 341044  
 Ion Ratio Lower Upper  
 105 100  
 134 18.0 0.0 36.0



#82  
 p-Isopropyltoluene  
 Concen: 17.930 ug/l  
 RT: 13.29 min Scan# 3582  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion:119 Resp: 275658  
 Ion Ratio Lower Upper  
 119 100  
 134 24.8 0.0 49.6  
 91 27.6 0.0 55.2

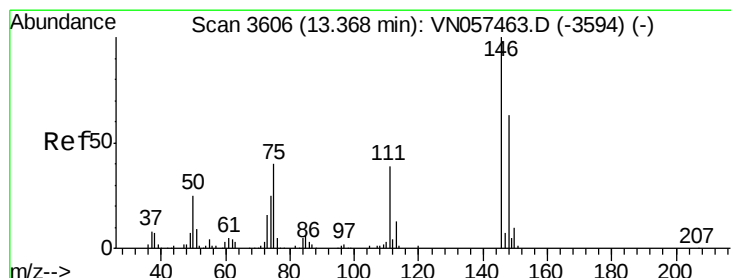
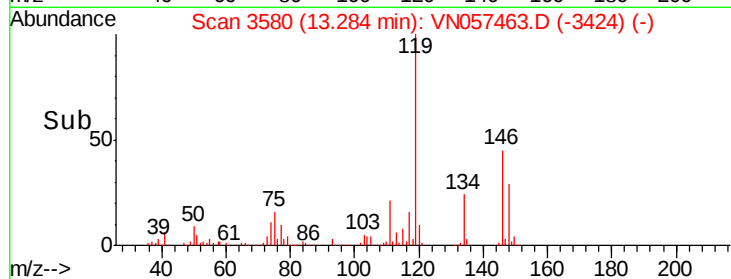
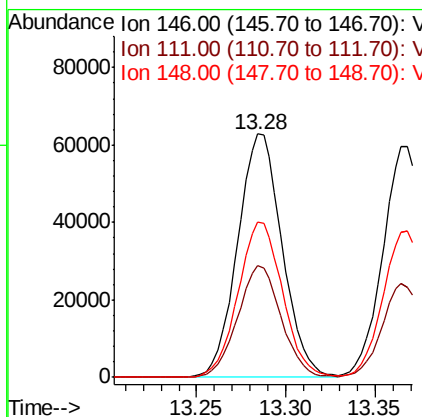
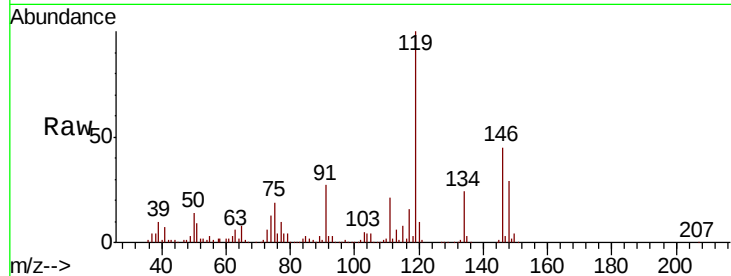




#83  
 1,3-Dichlorobenzene  
 Concen: 15.488 ug/l  
 RT: 13.28 min Scan# 3580  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

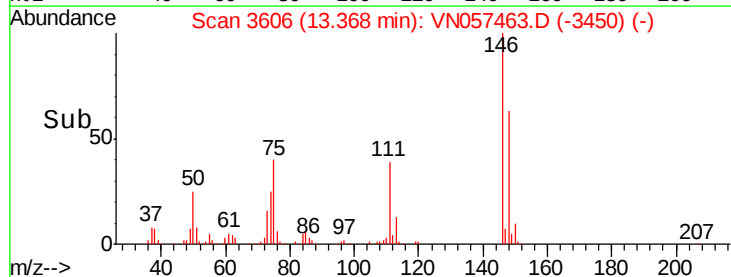
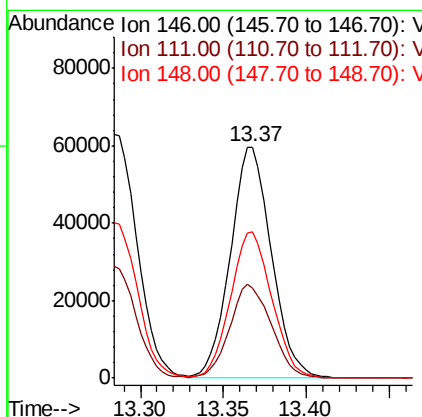
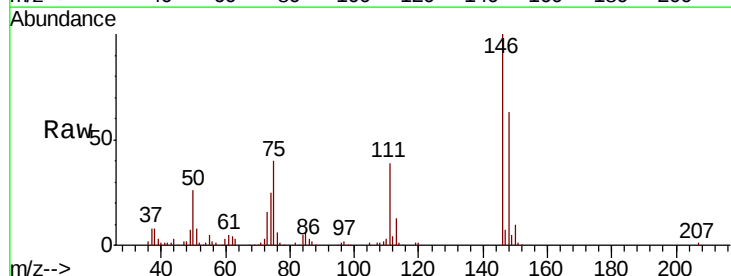
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

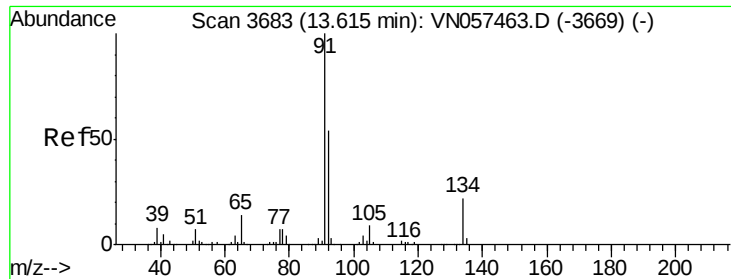
Tgt Ion:146 Resp: 109601  
 Ion Ratio Lower Upper  
 146 100  
 111 44.7 22.4 67.0  
 148 63.6 31.8 95.4



#84  
 1,4-Dichlorobenzene  
 Concen: 15.415 ug/l  
 RT: 13.37 min Scan# 3606  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion:146 Resp: 102871  
 Ion Ratio Lower Upper  
 146 100  
 111 41.0 20.5 61.5  
 148 63.8 31.9 95.7





#85

n-Butylbenzene

Concen: 19.522 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

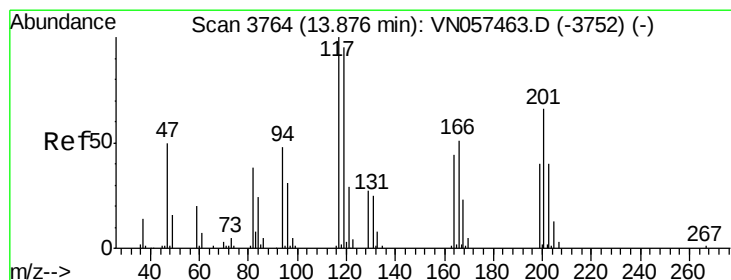
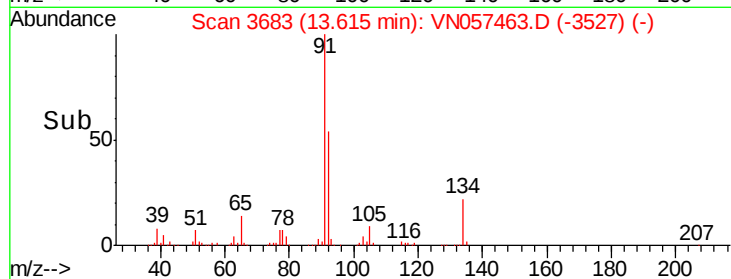
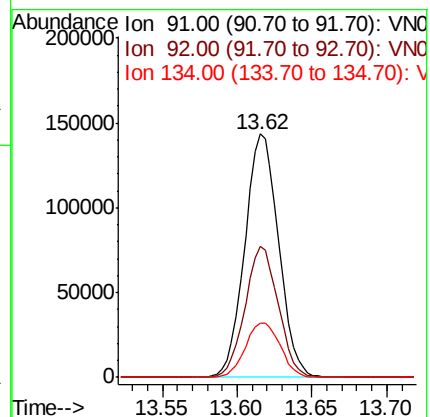
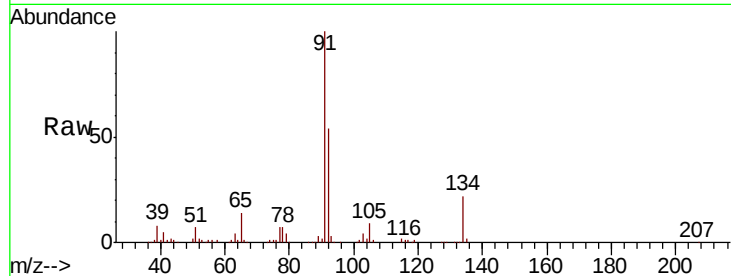
Tgt Ion: 91 Resp: 225578

Ion Ratio Lower Upper

91 100

92 52.8 0.0 105.6

134 23.0 0.0 46.0



#86

Hexachloroethane

Concen: 19.401 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN057463.D

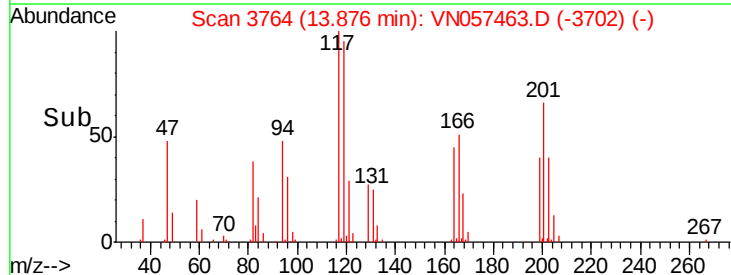
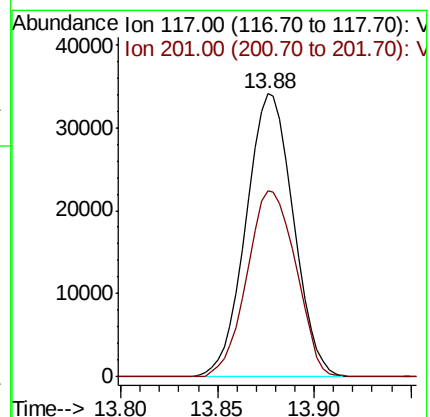
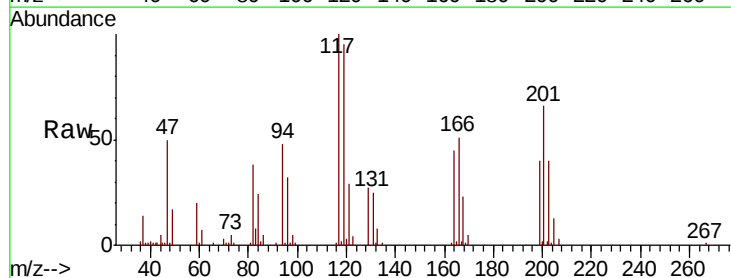
Acq: 23 Aug 2019 9:37

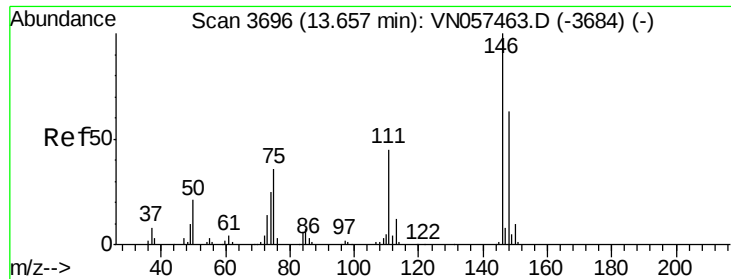
Tgt Ion: 117 Resp: 57967

Ion Ratio Lower Upper

117 100

201 67.9 34.0 101.8

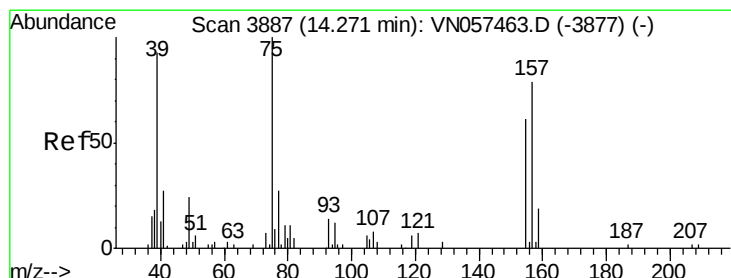
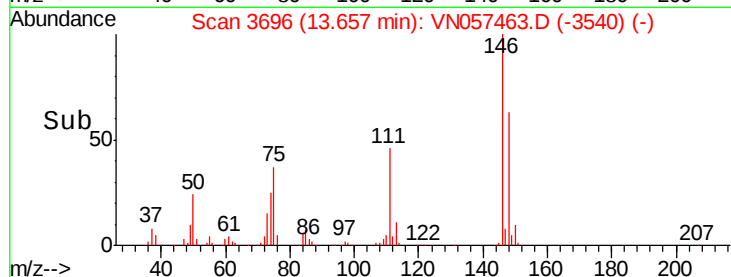
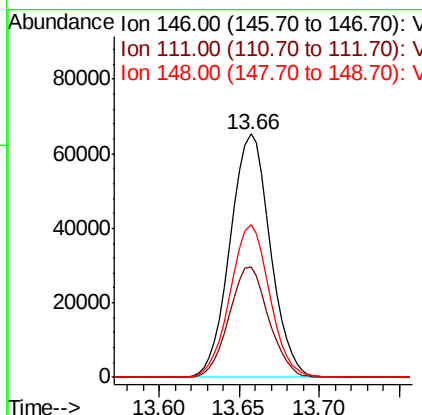
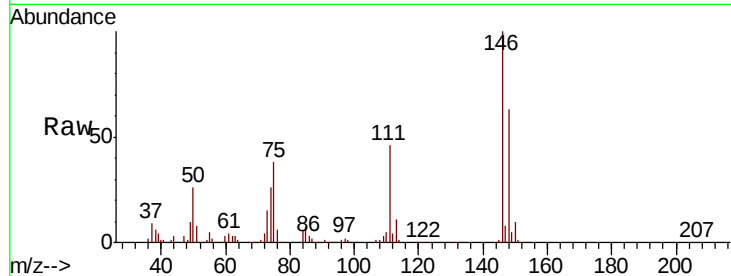




#87  
 1,2-Dichlorobenzene  
 Concen: 16.545 ug/l  
 RT: 13.66 min Scan# 3696  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

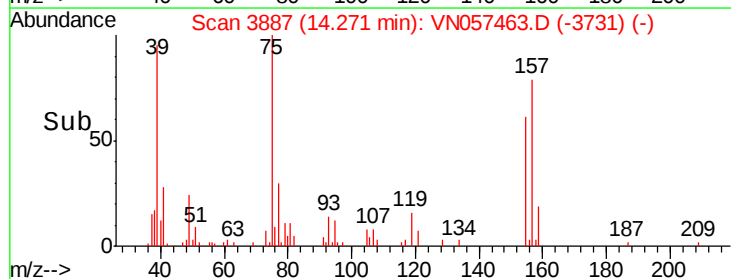
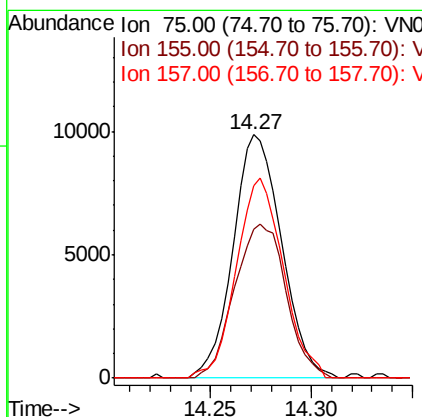
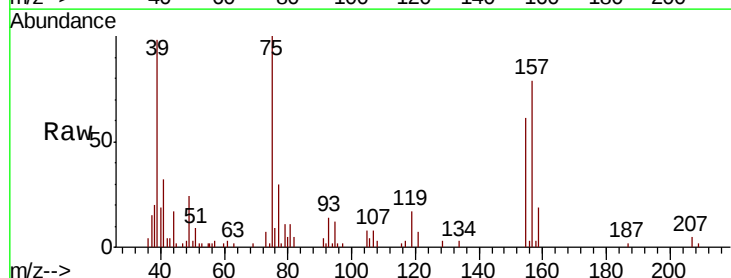
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

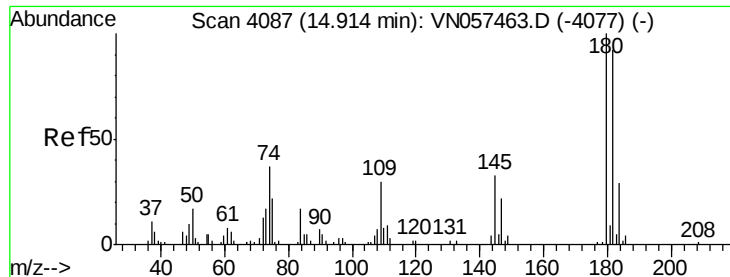
Tgt Ion: 146 Resp: 111326  
 Ion Ratio Lower Upper  
 146 100  
 111 45.0 22.5 67.5  
 148 61.8 30.9 92.7



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 22.495 ug/l  
 RT: 14.27 min Scan# 3887  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion: 75 Resp: 16630  
 Ion Ratio Lower Upper  
 75 100  
 155 67.1 53.7 80.5  
 157 79.4 63.5 95.3

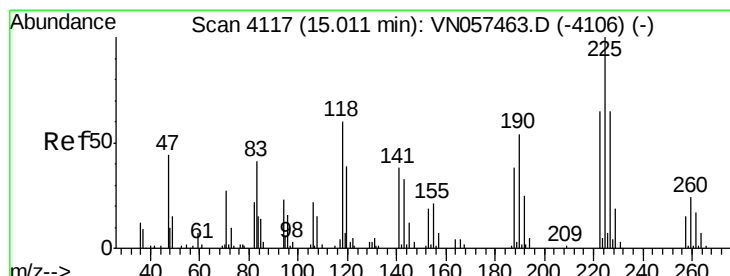
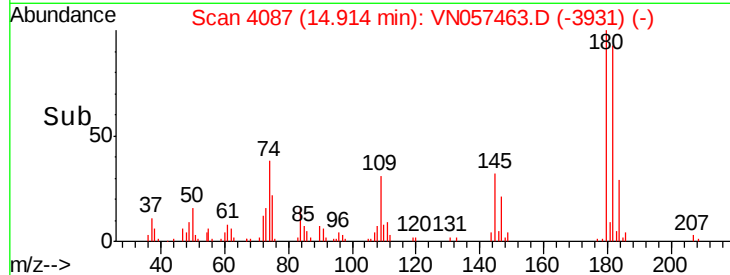
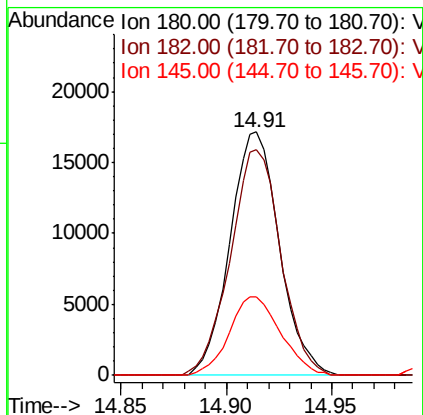
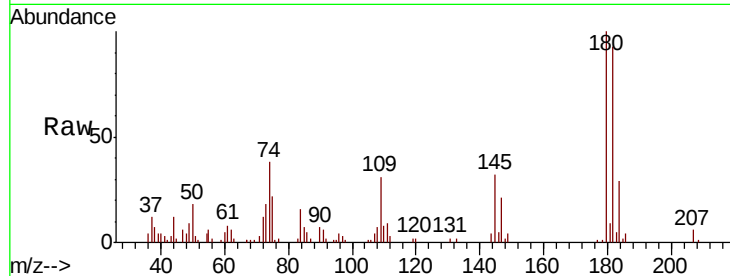




#89  
 1,2,4-Trichlorobenzene  
 Concen: 11.557 ug/l  
 RT: 14.91 min Scan# 4087  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

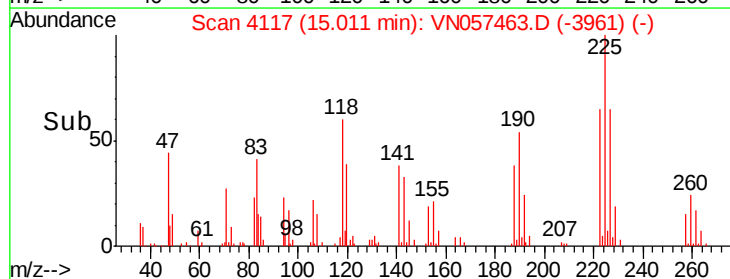
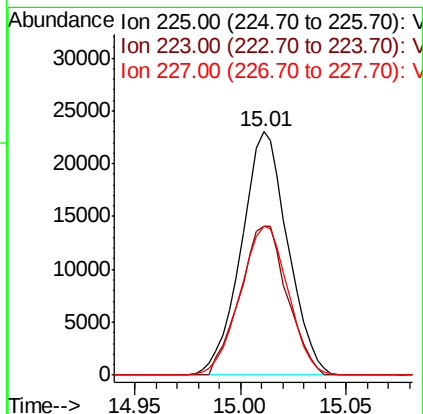
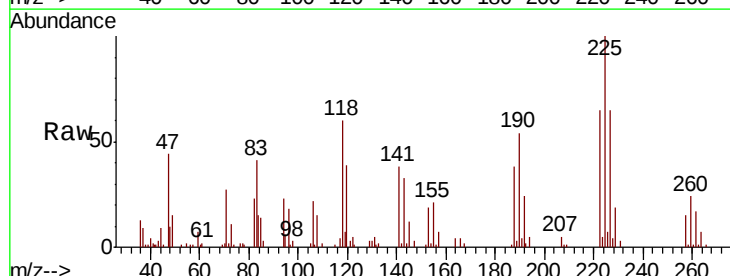
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICCC020

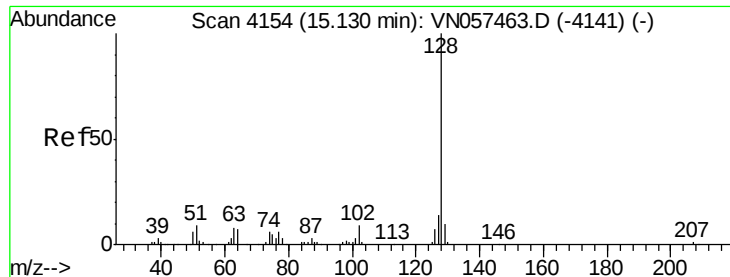
Tgt Ion:180 Resp: 27897  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 75.4 113.2  
 145 33.6 26.9 40.3



#90  
 Hexachlorobutadiene  
 Concen: 12.387 ug/l  
 RT: 15.01 min Scan# 4117  
 Delta R.T. 0.00 min  
 Lab File: VN057463.D  
 Acq: 23 Aug 2019 9:37

Tgt Ion:225 Resp: 35337  
 Ion Ratio Lower Upper  
 225 100  
 223 61.8 0.0 123.6  
 227 63.3 0.0 126.6





#91

Naphthalene

Concen: 17.847 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICCC020

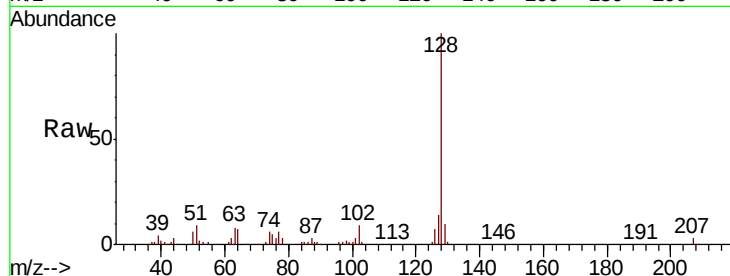
Tgt Ion:128 Resp: 102241

Ion Ratio Lower Upper

128 100

127 12.6 10.1 15.1

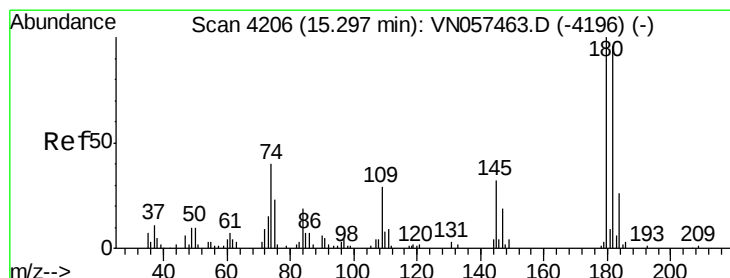
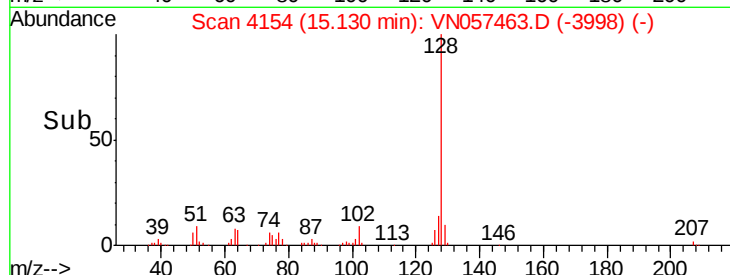
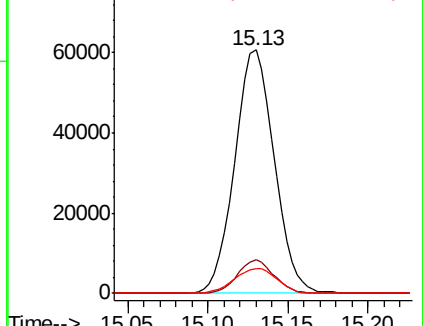
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 13.329 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057463.D

Acq: 23 Aug 2019 9:37

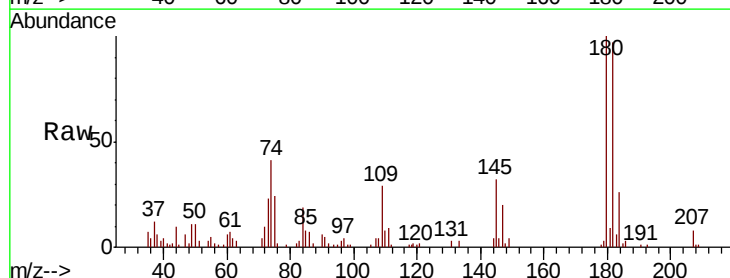
Tgt Ion:180 Resp: 31215

Ion Ratio Lower Upper

180 100

182 93.5 0.0 187.0

145 32.2 0.0 64.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

