

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091819\  
 Data File : VN058152.D  
 Acq On : 18 Sep 2019 9:21  
 Operator : JC/SP  
 Sample : VSTDIC001  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 19 01:42:50 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 01:40:20 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.65  | 168  | 563932   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 957566   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 823388   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 371819   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |      |       |      |
|---------------------------|--------|-----|----------|------|-------|------|
| 33) 1,2-Dichloroethane-d4 | 8.01   | 65  | 8654     | 0.81 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 1.62% |      |
| 35) Dibromofluoromethane  | 7.58   | 113 | 6337     | 0.77 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 1.54% |      |
| 50) Toluene-d8            | 10.09  | 98  | 28057    | 0.88 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 1.76% |      |
| 62) 4-Bromofluorobenzene  | 12.41  | 95  | 11605    | 0.94 | ug/l  | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =    | 1.88% |      |

## Target Compounds

|                               |      |     |       |       | Qvalue |    |
|-------------------------------|------|-----|-------|-------|--------|----|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 4881  | 0.677 | ug/l   | 99 |
| 3) Chloromethane              | 2.04 | 50  | 6118  | 0.838 | ug/l # | 84 |
| 4) Vinyl Chloride             | 2.17 | 62  | 5777  | 0.749 | ug/l # | 88 |
| 5) Bromomethane               | 2.55 | 94  | 3525  | 0.773 | ug/l   | 89 |
| 6) Chloroethane               | 2.69 | 64  | 4048  | 0.819 | ug/l   | 94 |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 7493  | 0.763 | ug/l   | 91 |
| 8) Diethyl Ether              | 3.40 | 74  | 3298  | 0.790 | ug/l   | 89 |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 5333  | 0.850 | ug/l   | 99 |
| 10) Methyl Iodide             | 3.93 | 142 | 3345  | 0.503 | ug/l # | 98 |
| 11) Tert butyl alcohol        | 4.76 | 59  | 729   | 0.573 | ug/l # | 74 |
| 12) 1,1-Dichloroethene        | 3.71 | 96  | 4964  | 0.882 | ug/l   | 86 |
| 13) Acrolein                  | 3.58 | 56  | 411   | 0.427 | ug/l # | 57 |
| 14) Allyl chloride            | 4.29 | 41  | 7852  | 0.710 | ug/l   | 88 |
| 15) Acrylonitrile             | 4.96 | 53  | 4736  | 1.325 | ug/l # | 1  |
| 16) Acetone                   | 3.80 | 43  | 15853 | 4.511 | ug/l   | 97 |
| 17) Carbon Disulfide          | 4.03 | 76  | 8342  | 0.813 | ug/l   | 98 |
| 18) Methyl Acetate            | 4.31 | 43  | 8696  | 0.925 | ug/l   | 98 |
| 19) Methyl tert-butyl Ether   | 5.02 | 73  | 17693 | 0.752 | ug/l   | 93 |
| 20) Methylene Chloride        | 4.53 | 84  | 6615  | 0.866 | ug/l # | 86 |
| 21) trans-1,2-Dichloroethene  | 5.02 | 96  | 5093  | 0.837 | ug/l # | 72 |
| 22) Diisopropyl ether         | 5.93 | 45  | 19472 | 0.751 | ug/l # | 82 |
| 23) Vinyl Acetate             | 5.88 | 43  | 65724 | 3.596 | ug/l   | 99 |
| 24) 1,1-Dichloroethane        | 5.82 | 63  | 6574  | 0.464 | ug/l   | 99 |
| 25) 2-Butanone                | 6.82 | 43  | 17509 | 3.440 | ug/l   | 92 |
| 26) 2,2-Dichloropropane       | 6.80 | 77  | 4514  | 0.402 | ug/l # | 51 |
| 27) cis-1,2-Dichloroethene    | 6.81 | 96  | 6087  | 0.743 | ug/l   | 83 |
| 28) Bromochloromethane        | 7.17 | 49  | 5416  | 0.766 | ug/l # | 92 |
| 29) Tetrahydrofuran           | 7.20 | 42  | 11660 | 3.717 | ug/l   | 93 |
| 30) Chloroform                | 7.35 | 83  | 12665 | 0.853 | ug/l   | 99 |
| 31) Cyclohexane               | 7.64 | 56  | 22466 | 2.154 | ug/l # | 27 |
| 32) 1,1,1-Trichloroethane     | 7.56 | 97  | 8175  | 0.695 | ug/l # | 52 |
| 36) 1,1-Dichloropropene       | 7.78 | 75  | 8288  | 0.796 | ug/l   | 97 |
| 38) Carbon Tetrachloride      | 7.75 | 117 | 2837  | 0.297 | ug/l   | 92 |
| 39) Methylcyclohexane         | 9.07 | 83  | 8640  | 0.792 | ug/l   | 94 |

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 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 01:40:20 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 40) Benzene                    | 8.03  | 78   | 23161    | 0.739  | ug/l   | 98       |
| 41) Methacrylonitrile          | 7.19  | 41   | 11096    | 2.269  | ug/l # | 100      |
| 42) 1,2-Dichloroethane         | 8.11  | 62   | 9633     | 0.766  | ug/l   | 95       |
| 43) Isopropyl Acetate          | 8.16  | 43   | 14194    | 0.782  | ug/l # | 78       |
| 44) Trichloroethene            | 8.82  | 130  | 5241     | 0.680  | ug/l   | 83       |
| 45) 1,2-Dichloropropane        | 9.11  | 63   | 6319     | 0.691  | ug/l   | 90       |
| 46) Dibromomethane             | 9.20  | 93   | 3952     | 0.715  | ug/l   | 97       |
| 47) Bromodichloromethane       | 9.39  | 83   | 7527     | 0.684  | ug/l # | 96       |
| 48) Methyl methacrylate        | 9.19  | 41   | 5595     | 0.611  | ug/l   | 91       |
| 49) 1,4-Dioxane                | 9.19  | 88   | 2017     | 12.968 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 9.98  | 43   | 34845    | 3.282  | ug/l   | 97       |
| 52) Toluene                    | 10.15 | 92   | 13905    | 0.705  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 7065     | 0.611  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 9.83  | 75   | 8303     | 0.650  | ug/l # | 85       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 5751     | 0.688  | ug/l   | 96       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 6919     | 0.552  | ug/l # | 84       |
| 57) 1,3-Dichloropropane        | 10.70 | 76   | 10299    | 0.715  | ug/l   | 96       |
| 58) 2-Chloroethyl Vinyl ether  | 9.69  | 63   | 18497    | 3.165  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 24817    | 3.126  | ug/l   | 96       |
| 60) Dibromochloromethane       | 10.90 | 129  | 4528     | 0.584  | ug/l   | 98       |
| 61) 1,2-Dibromoethane          | 11.00 | 107  | 5229     | 0.663  | ug/l   | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 4566     | 0.795  | ug/l   | 91       |
| 65) Chlorobenzene              | 11.43 | 112  | 15672    | 0.773  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 4840     | 0.686  | ug/l # | 63       |
| 67) Ethyl Benzene              | 11.51 | 91   | 26963    | 0.760  | ug/l   | 91       |
| 68) m/p-Xylenes                | 11.62 | 106  | 19794    | 1.523  | ug/l   | 98       |
| 69) o-Xylene                   | 11.95 | 106  | 9269     | 0.720  | ug/l   | 95       |
| 70) Stvrene                    | 11.97 | 104  | 14330    | 0.647  | ug/l   | 97       |
| 71) Bromoform                  | 12.13 | 173  | 2406     | 0.549  | ug/l # | 96       |
| 73) Isopropylbenzene           | 12.25 | 105  | 25056    | 0.899  | ug/l   | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 7934     | 0.658  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 8089     | 0.863  | ug/l # | 95       |
| 76) 1,2,3-Trichloropropane     | 12.56 | 75   | 9679     | 1.200  | ug/l # | 100      |
| 77) Bromobenzene               | 12.53 | 156  | 6641     | 0.951  | ug/l   | 90       |
| 78) n-propylbenzene            | 12.60 | 91   | 27662    | 0.866  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 16596    | 0.820  | ug/l   | 95       |
| 80) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 19141    | 0.812  | ug/l   | 94       |
| 81) trans-1,4-Dichloro-2-buten | 12.31 | 75   | 1233     | 0.540  | ug/l # | 60       |
| 82) 4-Chlorotoluene            | 12.78 | 91   | 17647    | 0.849  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.00 | 119  | 17446    | 0.833  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene     | 13.05 | 105  | 19169    | 0.802  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 13.18 | 105  | 23157    | 0.835  | ug/l   | 98       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 19235    | 0.789  | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene        | 13.29 | 146  | 10374    | 0.813  | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene        | 13.29 | 146  | 10374    | 0.798  | ug/l   | 97       |
| 89) n-Butylbenzene             | 13.62 | 91   | 18444    | 0.798  | ug/l   | 98       |
| 90) Hexachloroethane           | 13.88 | 117  | 2556     | 0.701  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene        | 13.66 | 146  | 10487    | 0.820  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.28 | 75   | 1155     | 0.743  | ug/l # | 22       |
| 93) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 6046     | 0.716  | ug/l   | 98       |

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ALS Vial : 3 Sample Multiplier: 1

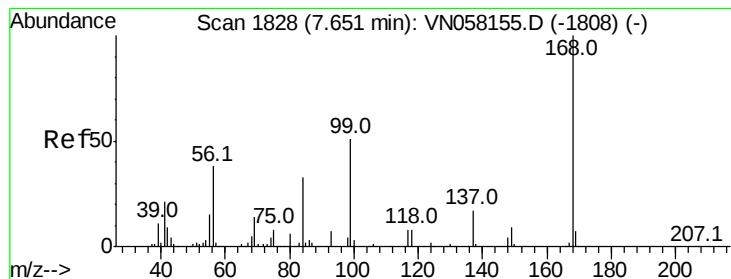
Instrument :  
MSVOA\_N  
ClientSampleId :

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Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 94) Hexachlorobutadiene    | 15.01 | 225  | 3061     | 0.845 | ug/l  | 97       |
| 95) Naphthalene            | 15.13 | 128  | 14966    | 0.619 | ug/l  | 98       |
| 96) 1,2,3-Trichlorobenzene | 15.30 | 180  | 5615     | 0.680 | ug/l  | 96       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

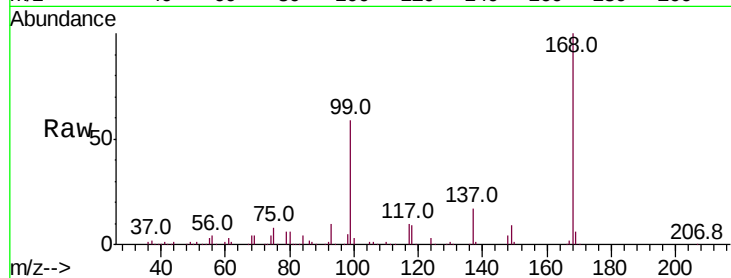
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:168 Resp: 563932

Ion Ratio Lower Upper

168 100

99 58.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

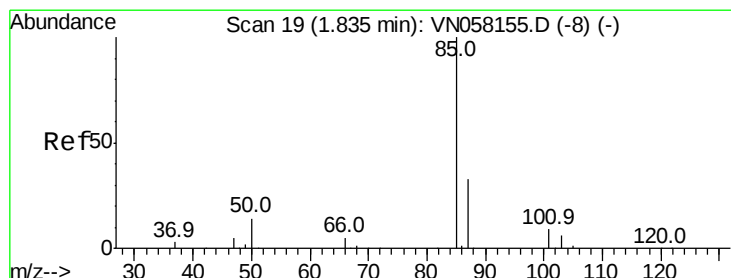
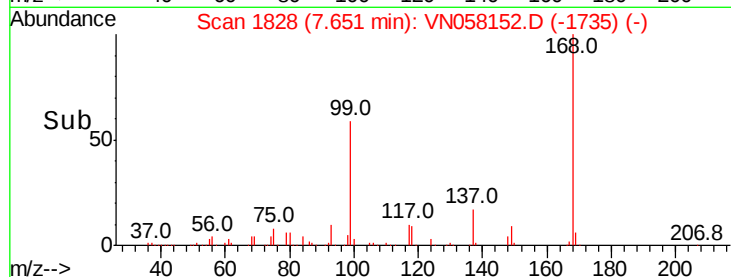
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.677 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN058152.D

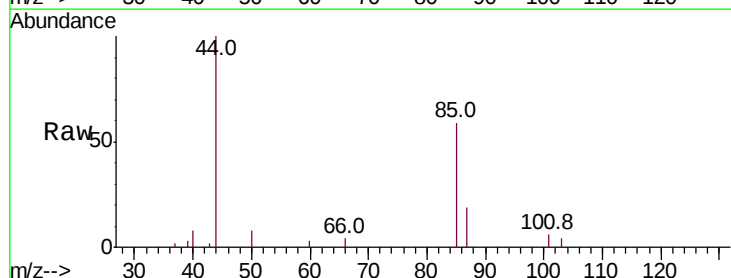
Acq: 18 Sep 2019 9:21

Tgt Ion: 85 Resp: 4881

Ion Ratio Lower Upper

85 100

87 31.9 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): V

Ion 86.90 (86.60 to 87.60): VN

1.83

4000

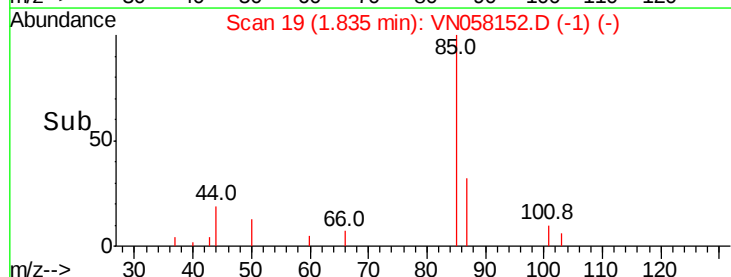
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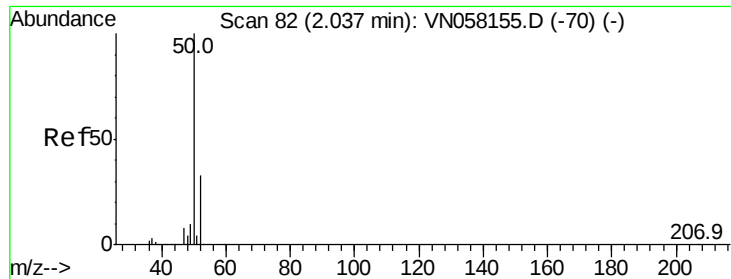
2000

1000

0

Time-->





#3

Chloromethane

Concen: 0.838 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

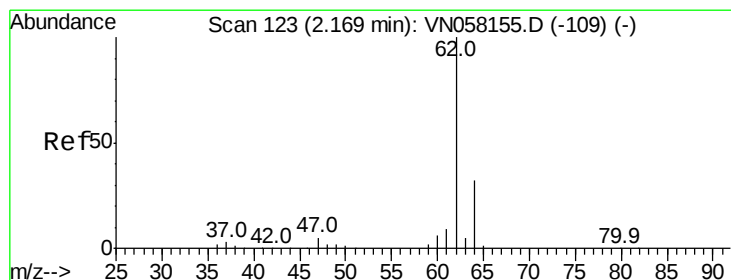
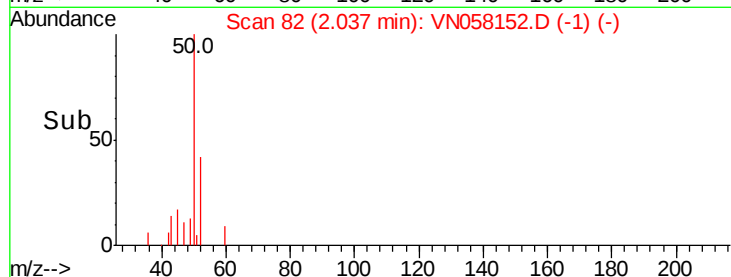
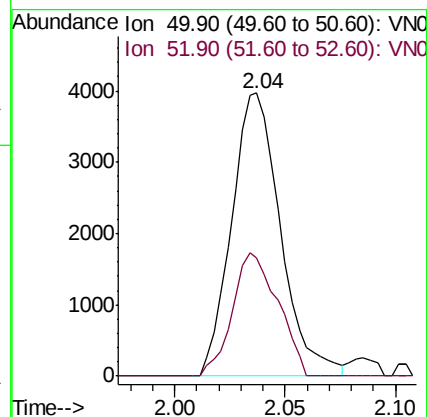
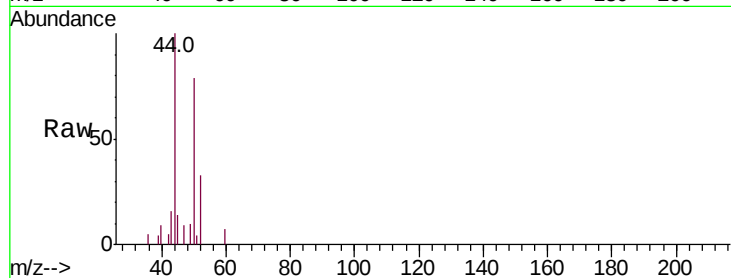
ClientSampled :

Tot Ion: 50 Resp: 6118

Ion Ratio Lower Upper

50 100

52 41.8 26.3 39.5#



#4

Vinyl Chloride

Concen: 0.749 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058152.D

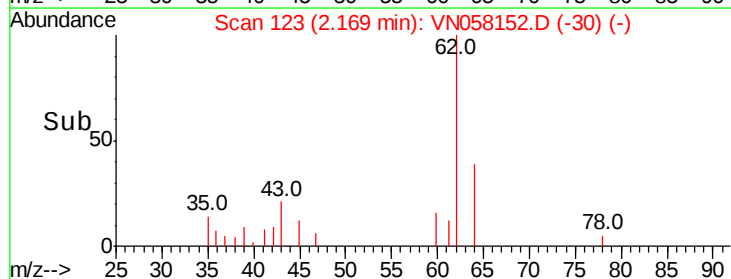
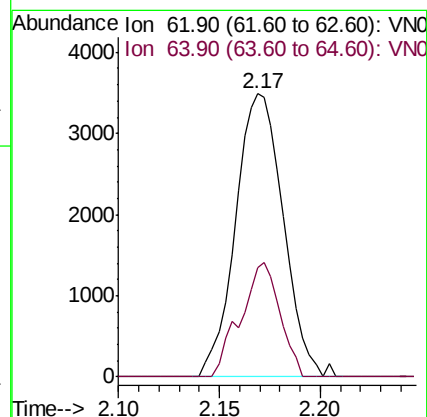
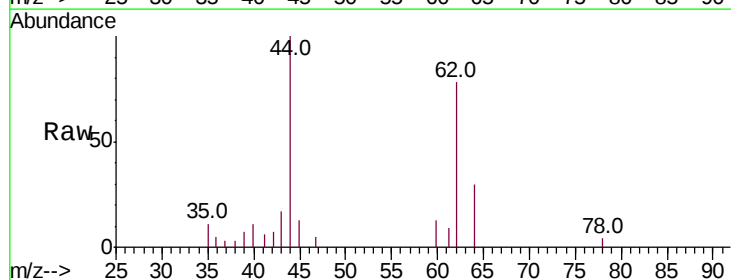
Acq: 18 Sep 2019 9:21

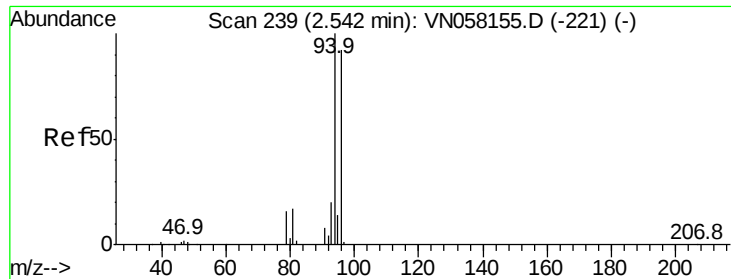
Tgt Ion: 62 Resp: 5777

Ion Ratio Lower Upper

62 100

64 38.7 25.4 38.2#





#5

Bromomethane

Concen: 0.773 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

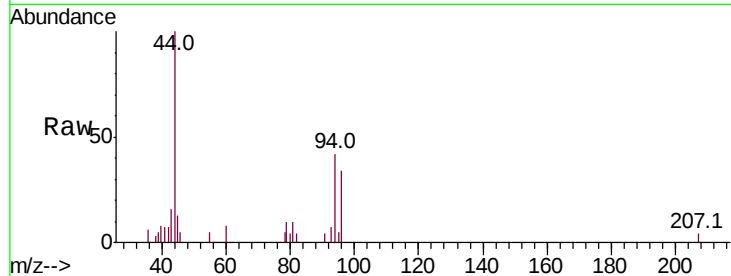
ClientSampleId :

Tot Ion: 94 Resp: 3525

Ion Ratio Lower Upper

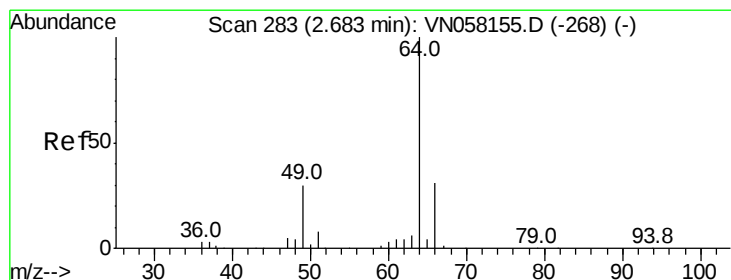
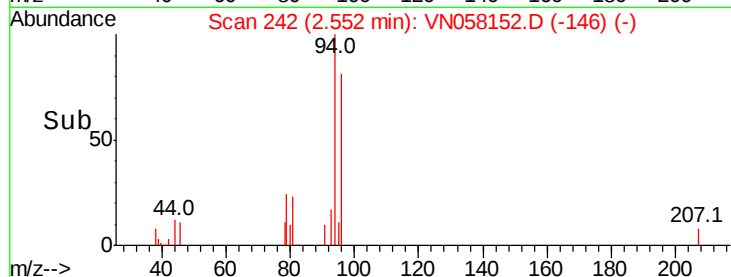
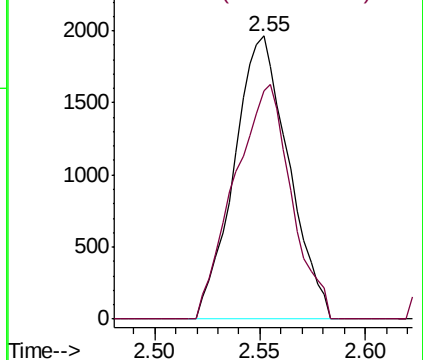
94 100

96 80.7 73.3 109.9



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 0.819 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN058152.D

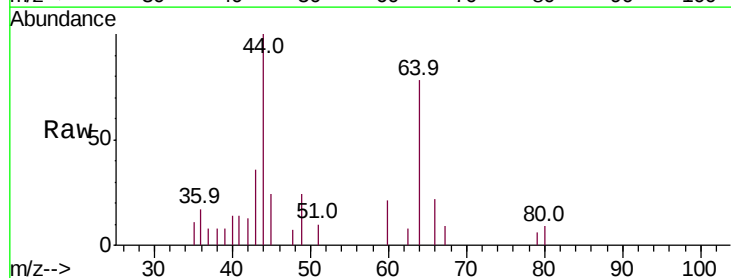
Acq: 18 Sep 2019 9:21

Tgt Ion: 64 Resp: 4048

Ion Ratio Lower Upper

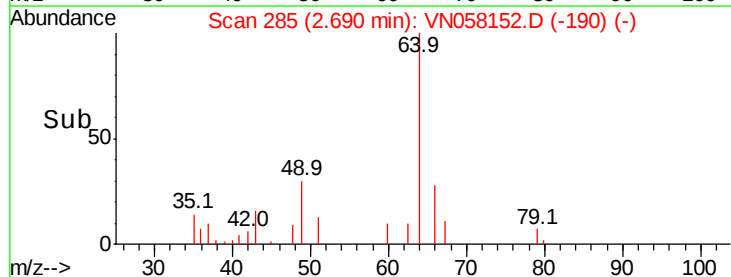
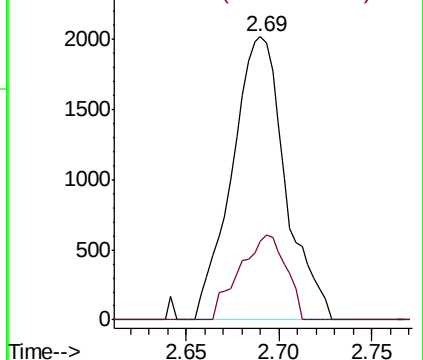
64 100

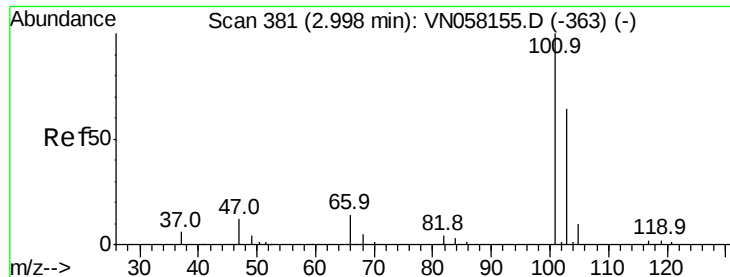
66 27.7 24.6 37.0



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO



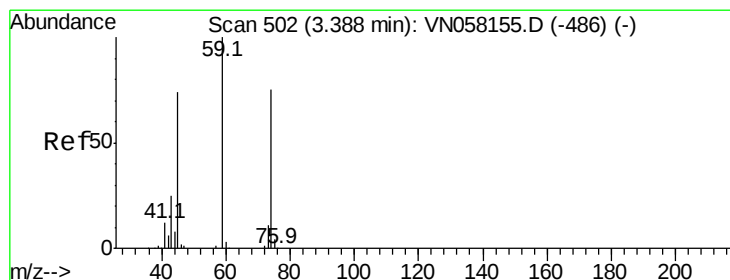
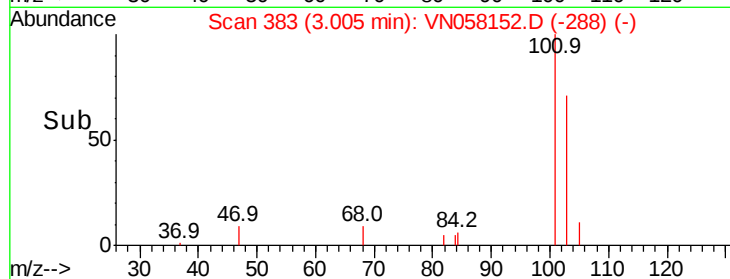
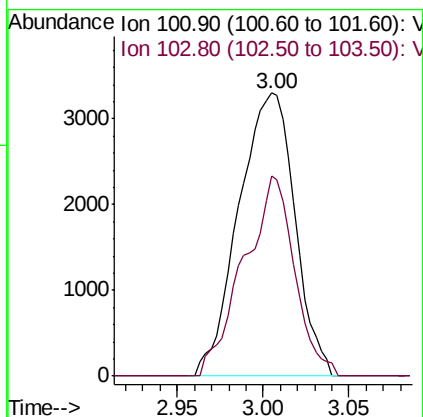
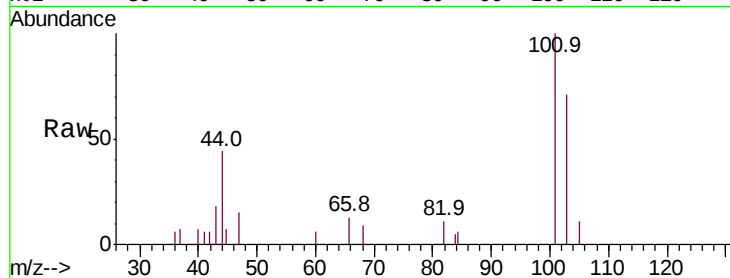


#7

Trichlorofluoromethane  
Concen: 0.763 ug/l  
RT: 3.00 min Scan# 383  
Delta R.T. 0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampled :

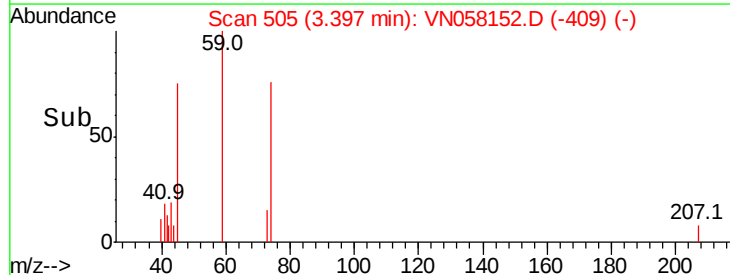
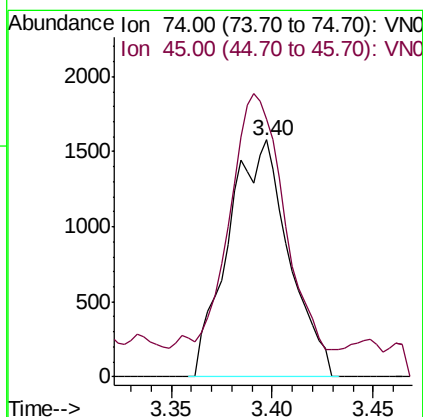
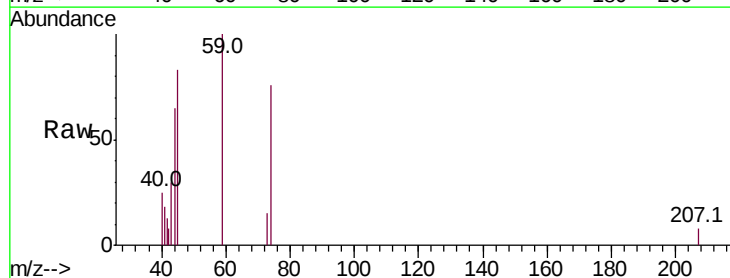
Tot Ion:101 Resp: 7493  
Ion Ratio Lower Upper  
101 100  
103 70.8 51.0 76.6

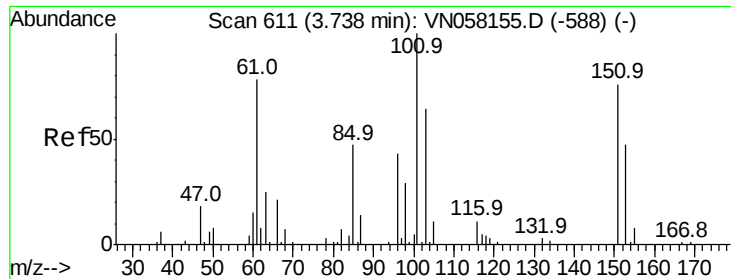


#8

Diethyl Ether  
Concen: 0.790 ug/l  
RT: 3.40 min Scan# 505  
Delta R.T. 0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 74 Resp: 3298  
Ion Ratio Lower Upper  
74 100  
45 107.3 48.5 145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.850 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampled :

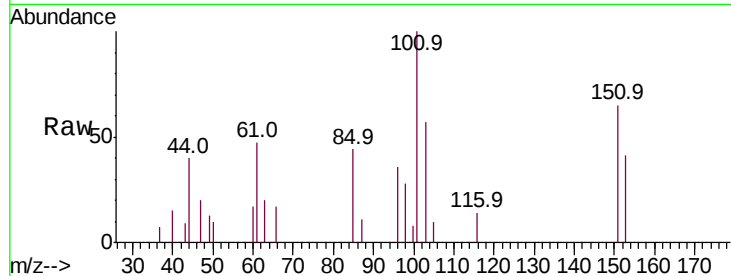
Tot Ion:101 Resp: 5333

Ion Ratio Lower Upper

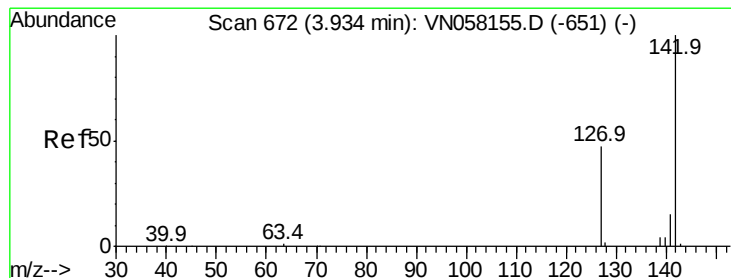
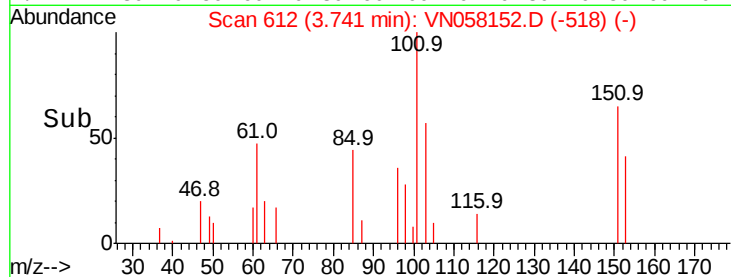
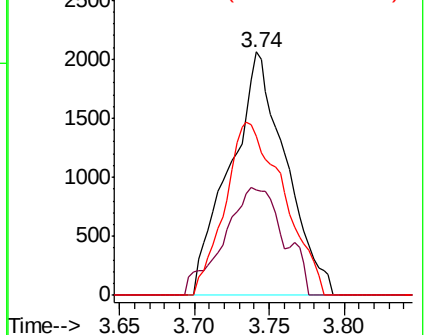
101 100

85 47.7 37.3 55.9

151 74.7 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V  
Ion 84.90 (84.60 to 85.60): V  
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.503 ug/l

RT: 3.93 min Scan# 671

Delta R.T. -0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

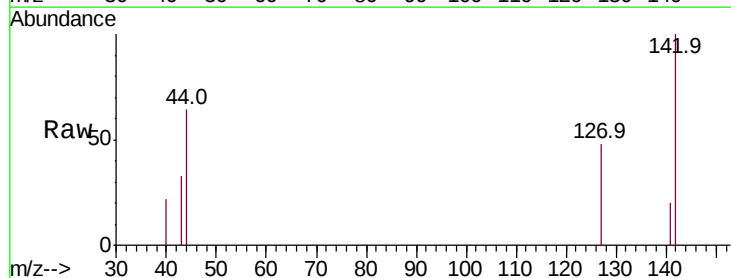
Tgt Ion:142 Resp: 3345

Ion Ratio Lower Upper

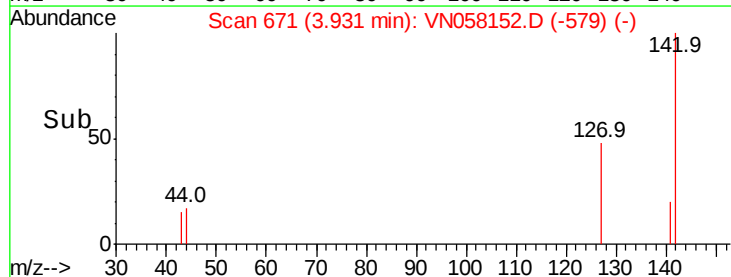
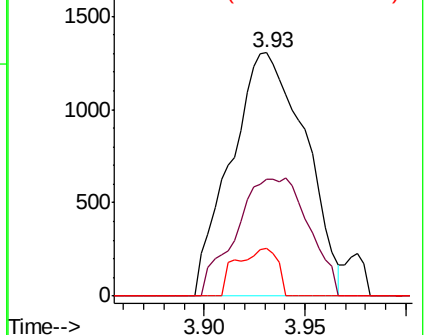
142 100

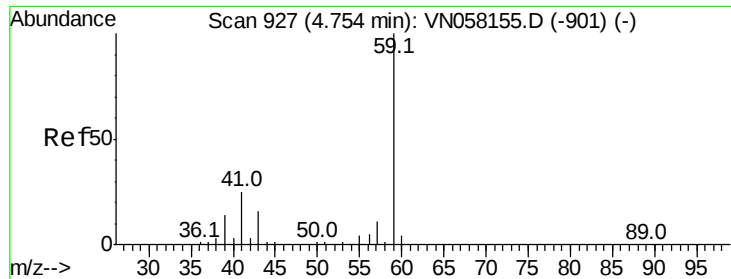
127 47.2 37.5 56.3

141 10.9 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

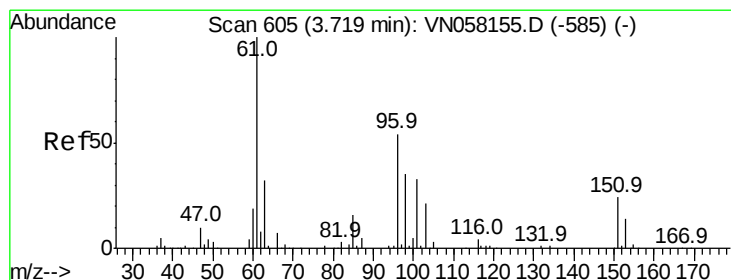
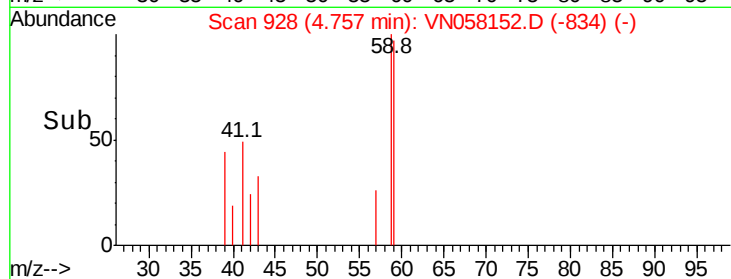
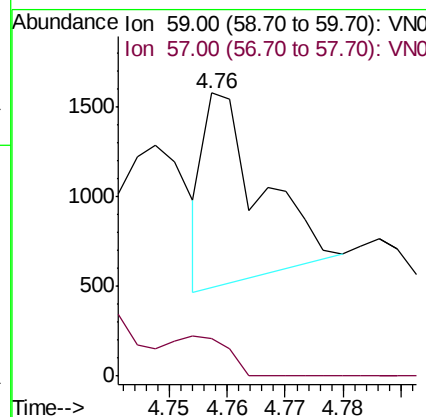
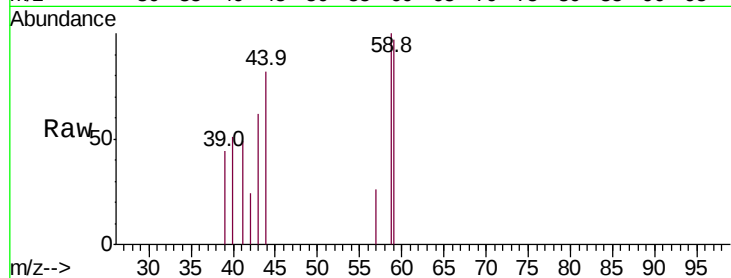




#11  
Tert butvl alcohol  
Concen: 0.573 ug/l  
RT: 4.76 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

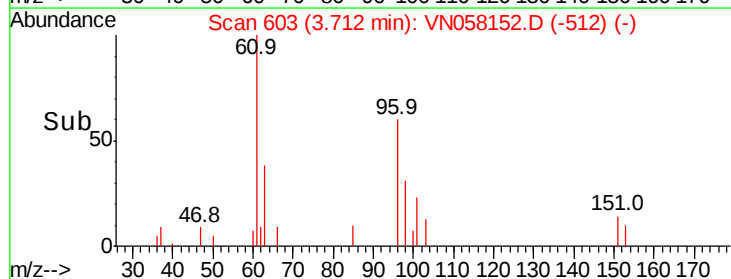
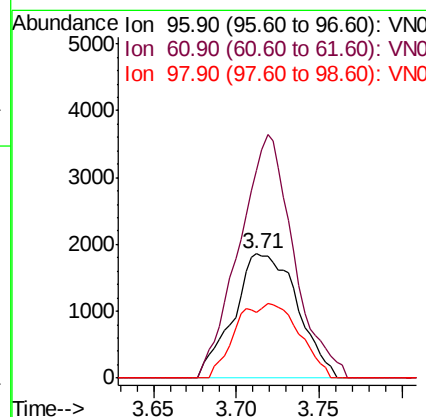
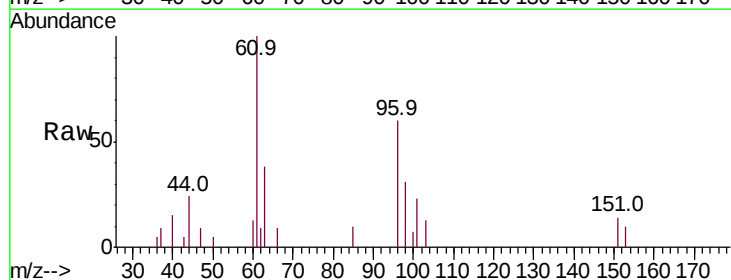
Instrument :  
MSVOA\_N  
ClientSampled :

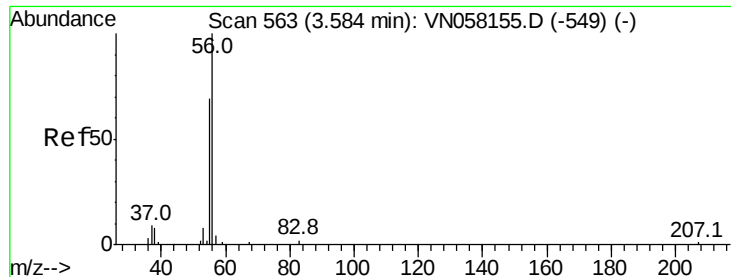
Tot Ion: 59 Resp: 729  
Ion Ratio Lower Upper  
59 100  
57 20.7 8.6 13.0#



#12  
1,1-Dichloroethene  
Concen: 0.882 ug/l  
RT: 3.71 min Scan# 603  
Delta R.T. -0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 96 Resp: 4964  
Ion Ratio Lower Upper  
96 100  
61 167.2 149.5 224.3  
98 52.5 52.4 78.6





#13

Acrolein

Concen: 0.427 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

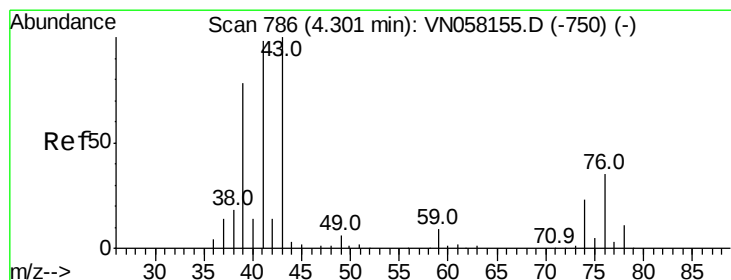
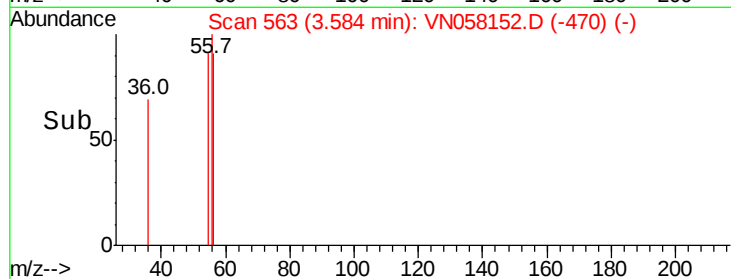
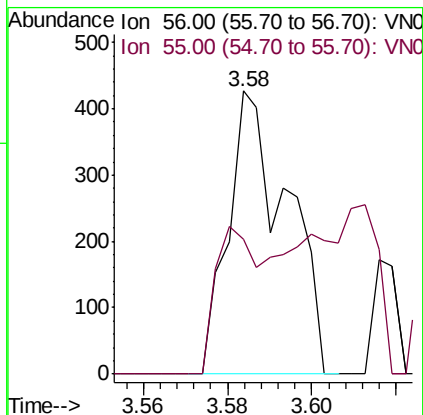
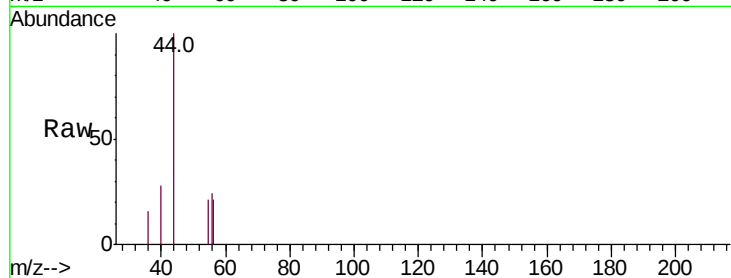
ClientSampleId :

Tot Ion: 56 Resp: 411

Ion Ratio Lower Upper

56 100

55 35.0 56.1 84.1#



#14

Allyl chloride

Concen: 0.710 ug/l

RT: 4.29 min Scan# 784

Delta R.T. -0.01 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

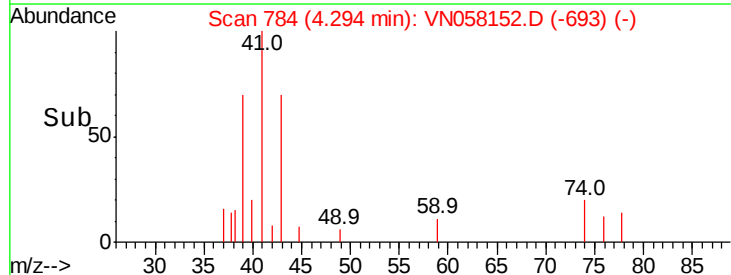
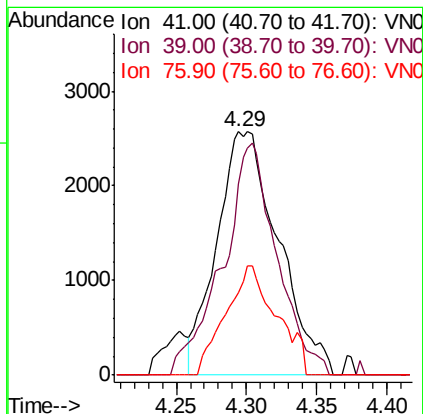
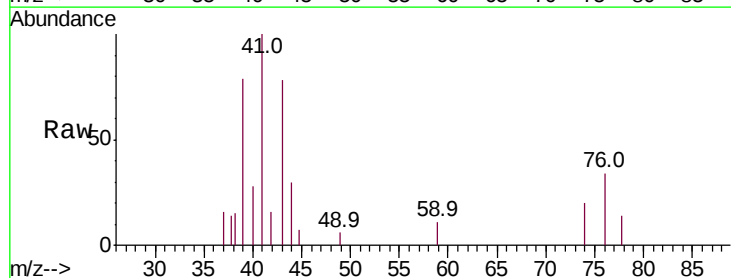
Tgt Ion: 41 Resp: 7852

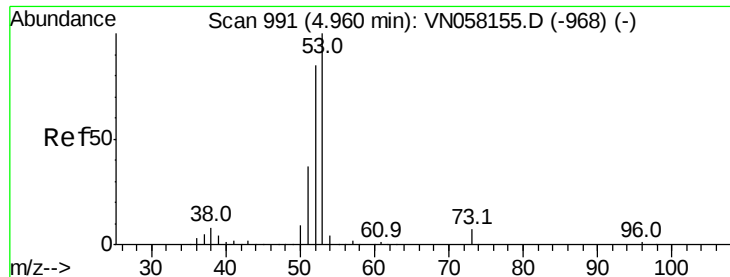
Ion Ratio Lower Upper

41 100

39 84.2 59.1 88.7

76 37.0 25.1 37.7





#15

Acrylonitrile

Concen: 1.325 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampled :

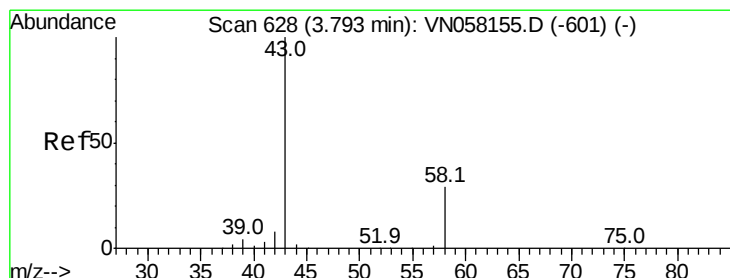
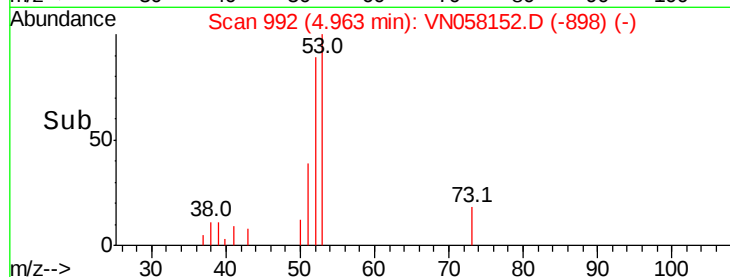
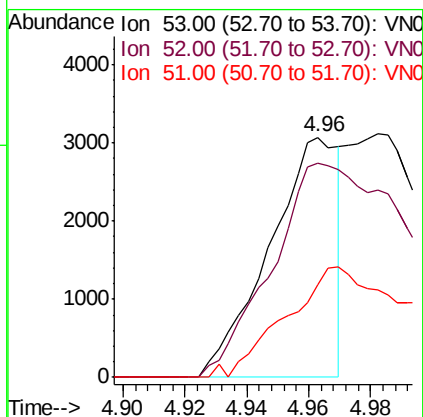
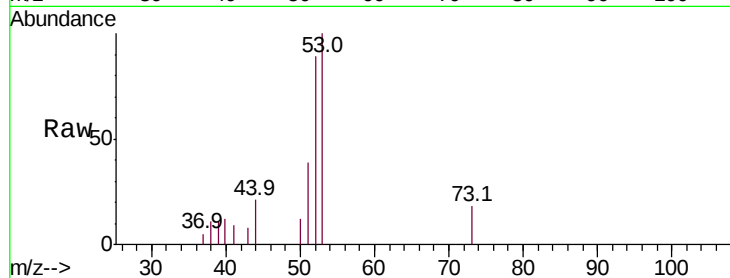
Tot Ion: 53 Resp: 4736

Ion Ratio Lower Upper

53 100

52 214.6 66.6 100.0#

51 89.5 29.7 44.5#



#16

Acetone

Concen: 4.511 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058152.D

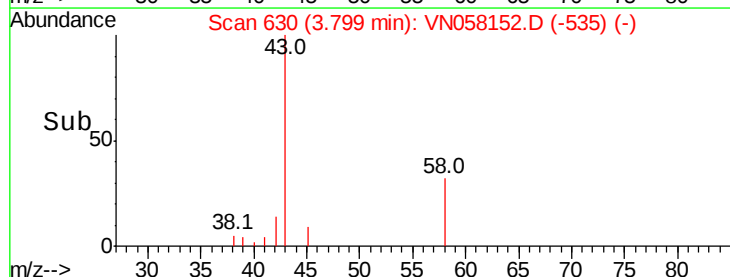
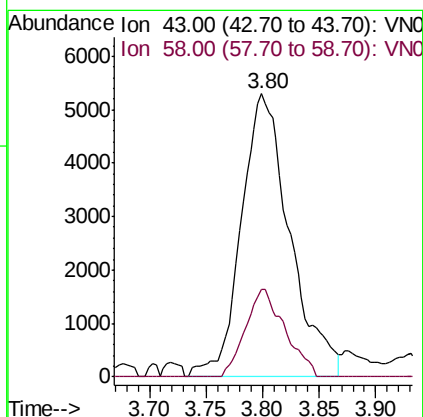
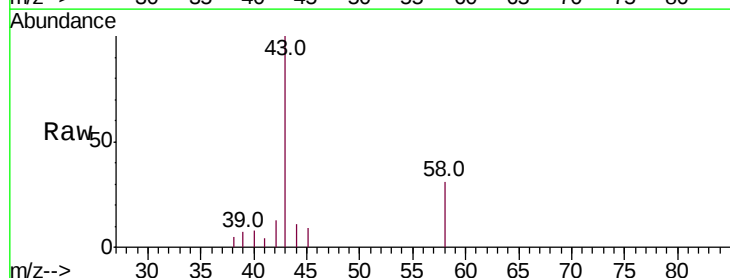
Acq: 18 Sep 2019 9:21

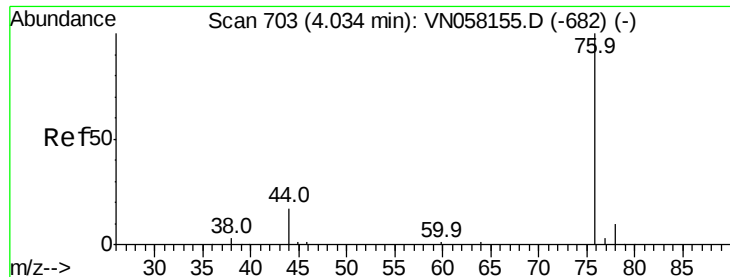
Tgt Ion: 43 Resp: 15853

Ion Ratio Lower Upper

43 100

58 31.0 23.4 35.2

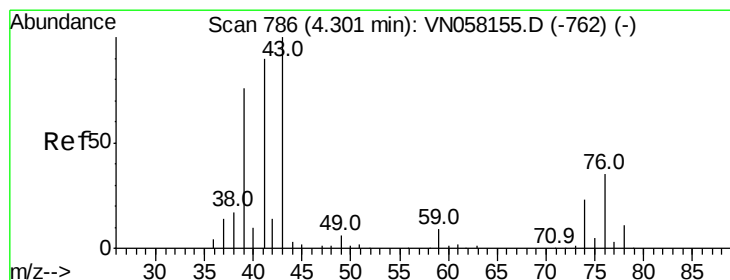
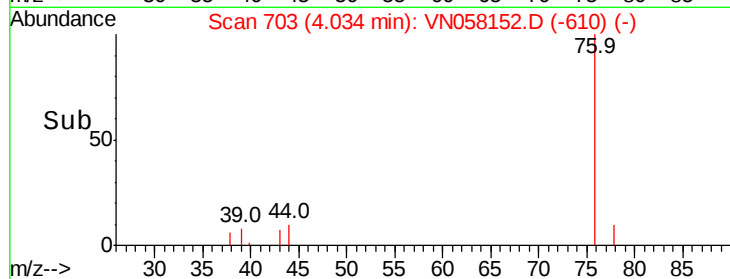
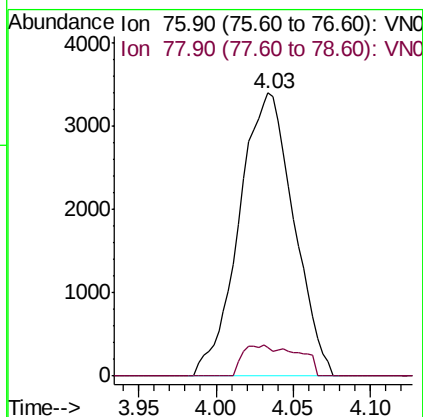
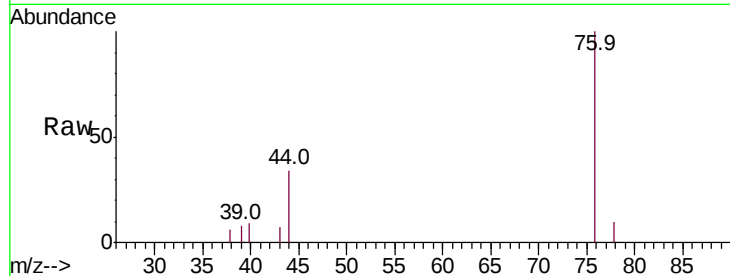




#17  
Carbon Disulfide  
Concen: 0.813 ug/l  
RT: 4.03 min Scan# 703  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

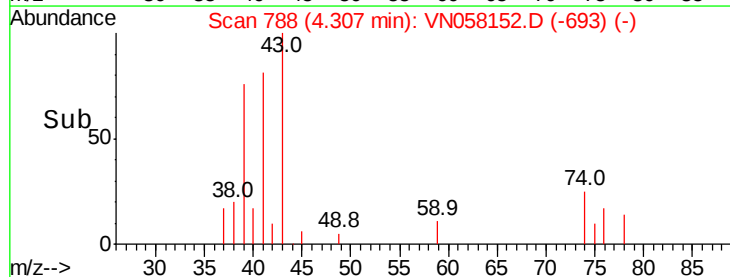
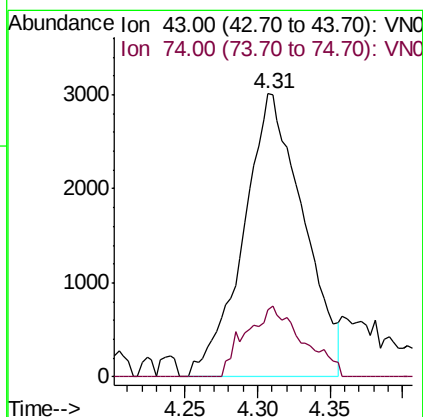
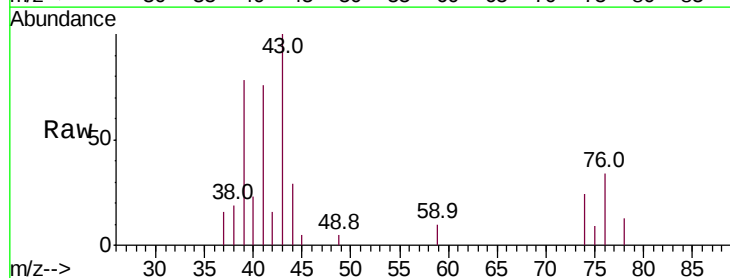
Instrument :  
MSVOA\_N  
ClientSampleId :

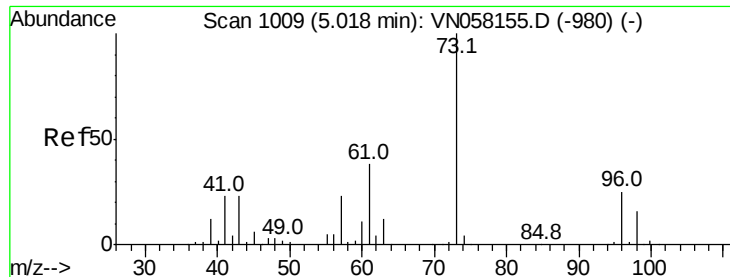
Tot Ion: 76 Resp: 8342  
Ion Ratio Lower Upper  
76 100  
78 10.3 7.7 11.5



#18  
Methyl Acetate  
Concen: 0.925 ug/l  
RT: 4.31 min Scan# 788  
Delta R.T. 0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 43 Resp: 8696  
Ion Ratio Lower Upper  
43 100  
74 23.7 18.0 27.0

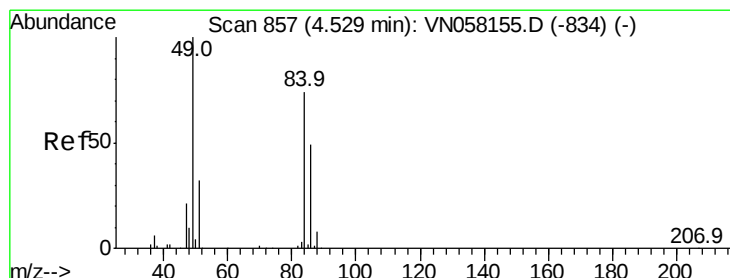
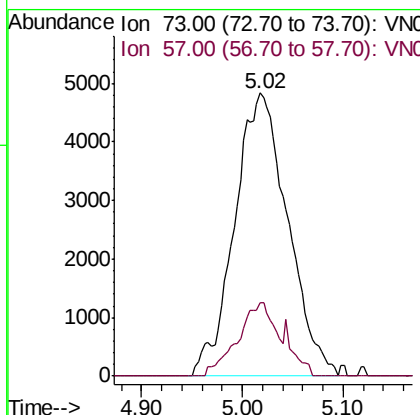
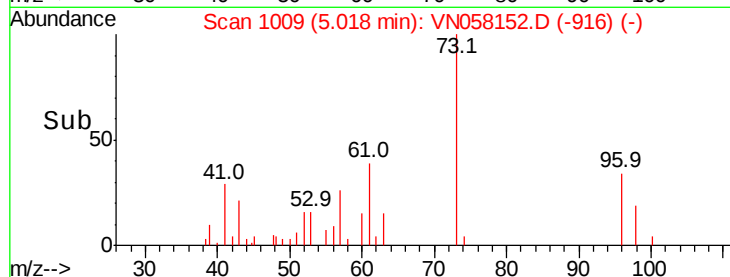
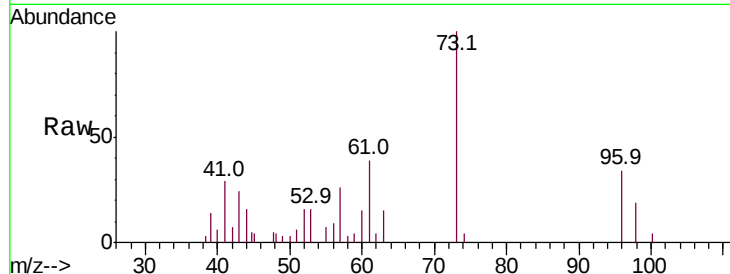




#19  
Methvl tert-butvl Ether  
Concen: 0.752 ug/l  
RT: 5.02 min Scan# 1009  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

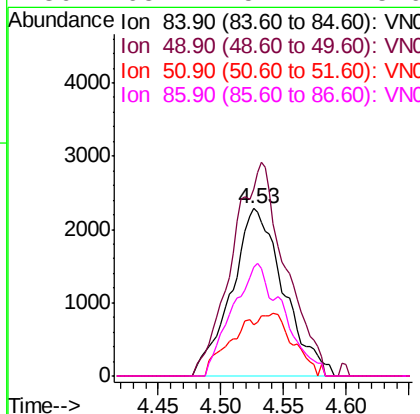
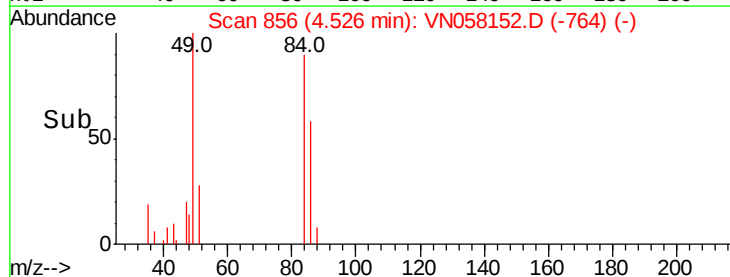
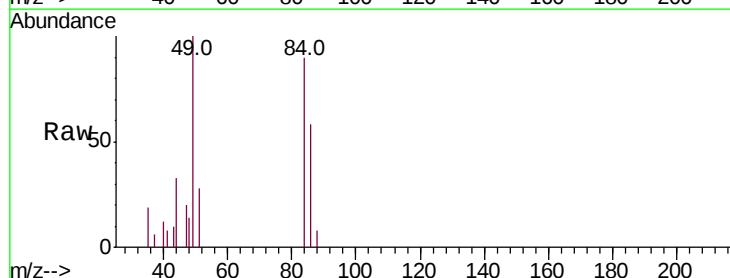
Instrument :  
MSVOA\_N  
ClientSampled :

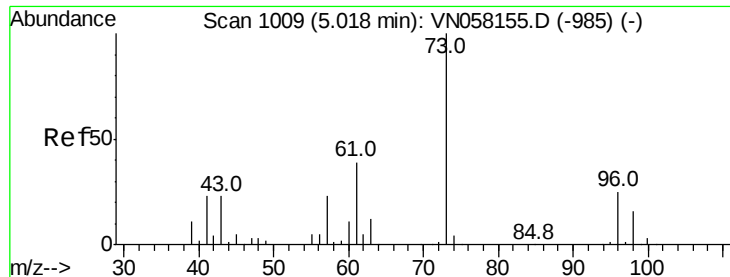
Tot Ion: 73 Resp: 17693  
Ion Ratio Lower Upper  
73 100  
57 26.0 18.1 27.1



#20  
Methylene Chloride  
Concen: 0.866 ug/l  
RT: 4.53 min Scan# 856  
Delta R.T. -0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 84 Resp: 6615  
Ion Ratio Lower Upper  
84 100  
49 111.4 107.5 161.3  
51 30.6 33.9 50.9#  
86 65.1 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 0.837 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampleId :

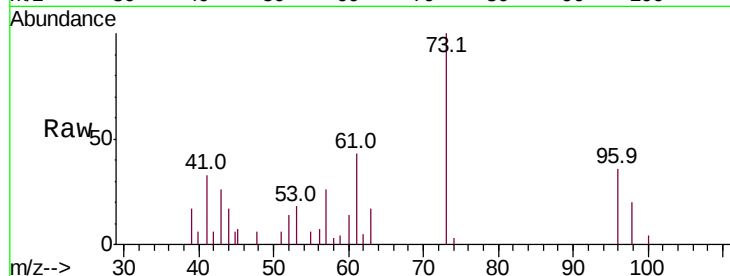
Tot Ion: 96 Resp: 5093

Ion Ratio Lower Upper

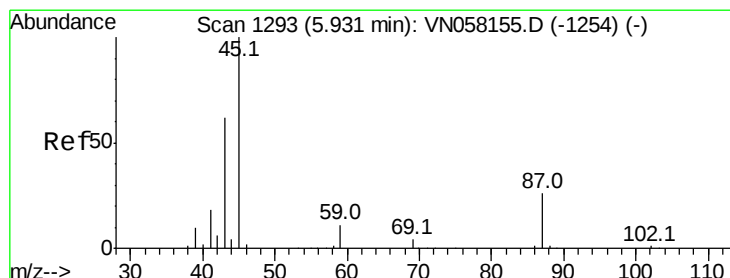
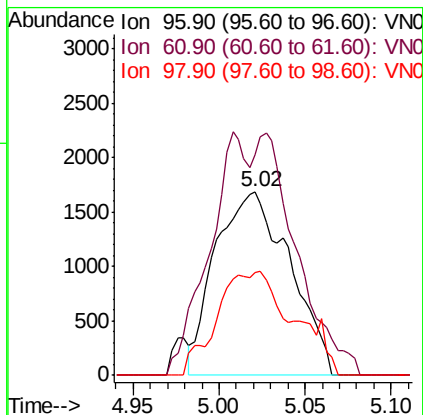
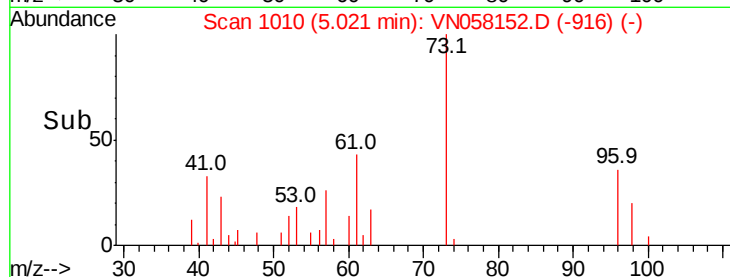
96 100

61 107.1 122.2 183.4#

98 55.9 49.9 74.9



Abundance Ion 95.90 (95.60 to 96.60): VNO  
Ion 60.90 (60.60 to 61.60): VNO  
Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 0.751 ug/l

RT: 5.93 min Scan# 1293

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Tgt Ion: 45 Resp: 19472

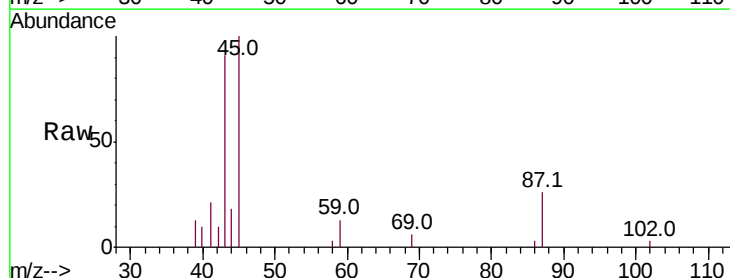
Ion Ratio Lower Upper

45 100

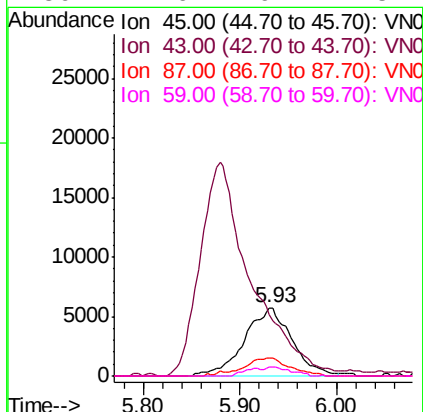
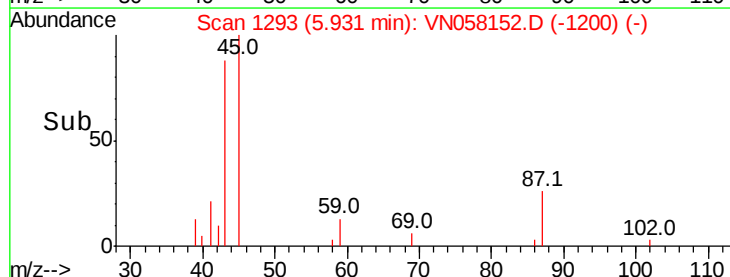
43 83.2 49.7 74.5#

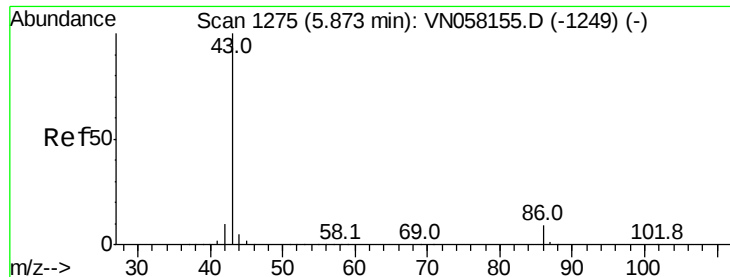
87 26.4 20.7 31.1

59 12.6 9.1 13.7



Abundance Ion 45.00 (44.70 to 45.70): VNO  
Ion 43.00 (42.70 to 43.70): VNO  
Ion 87.00 (86.70 to 87.70): VNO  
Ion 59.00 (58.70 to 59.70): VNO

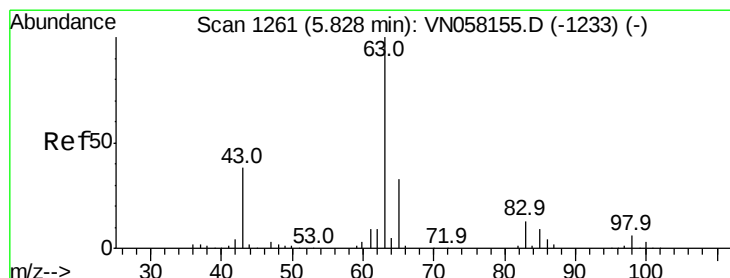
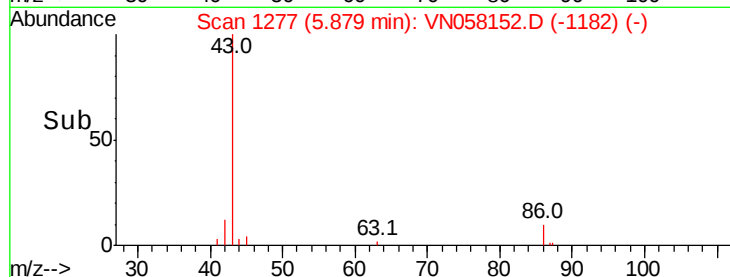
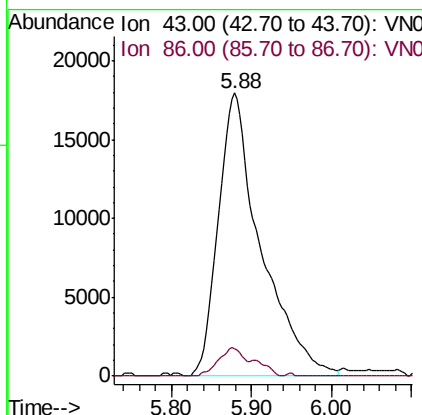
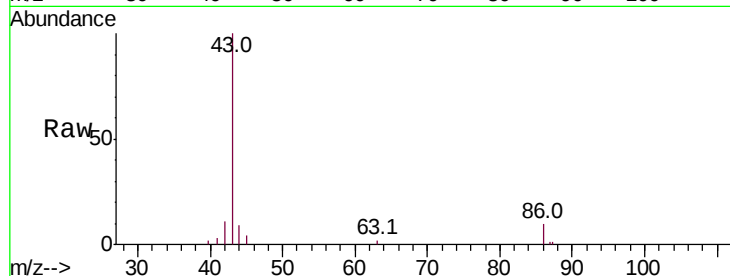




#23  
 Vinyl Acetate  
 Concen: 3.596 ug/l  
 RT: 5.88 min Scan# 1277  
 Delta R.T. 0.01 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

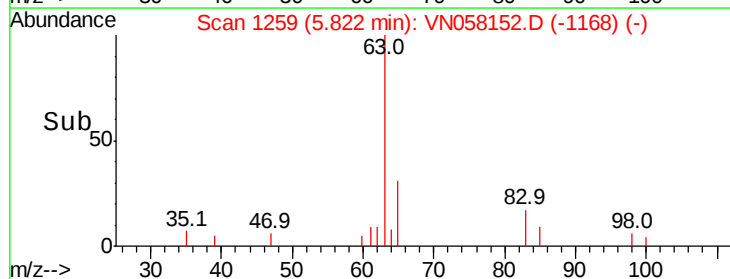
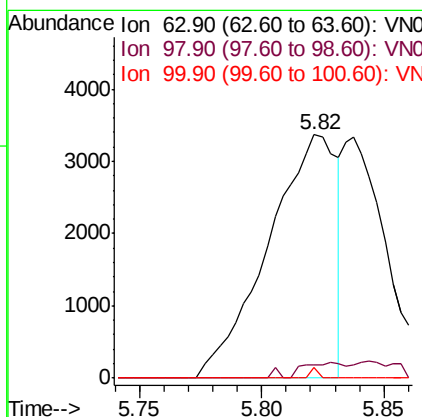
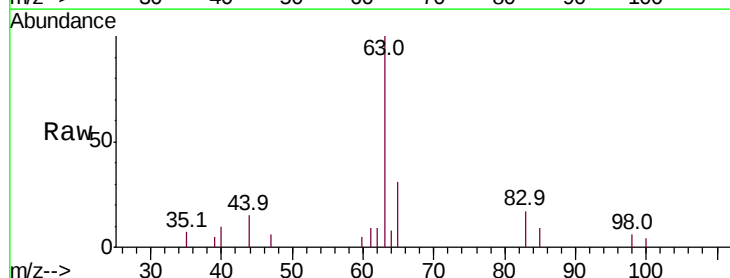
Instrument :  
 MSVOA\_N  
 ClientSampleId :

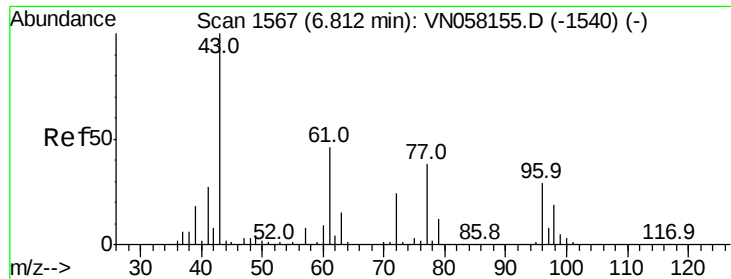
Tot Ion: 43 Resp: 65724  
 Ion Ratio Lower Upper  
 43 100  
 86 9.7 7.4 11.2



#24  
 1,1-Dichloroethane  
 Concen: 0.464 ug/l  
 RT: 5.82 min Scan# 1259  
 Delta R.T. -0.01 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 63 Resp: 6574  
 Ion Ratio Lower Upper  
 63 100  
 98 5.6 2.9 8.6  
 100 4.4 1.8 5.3





#25

2-Butanone

Concen: 3.440 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

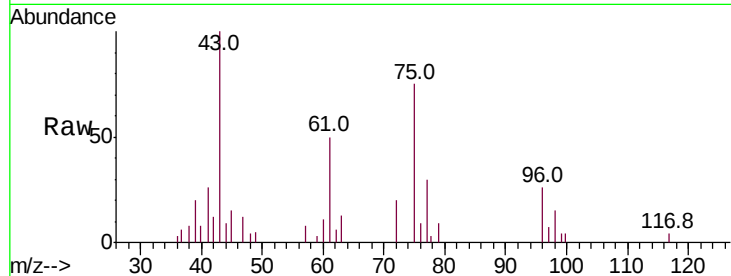
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 43 Resp: 17509

Ion Ratio Lower Upper

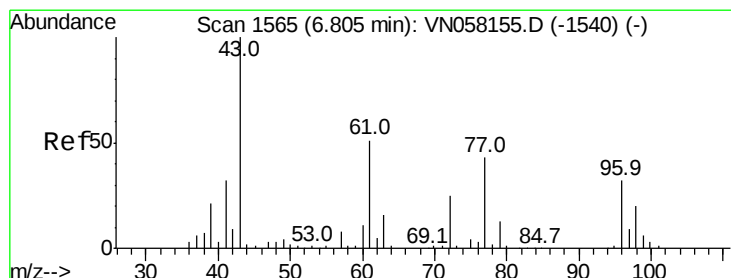
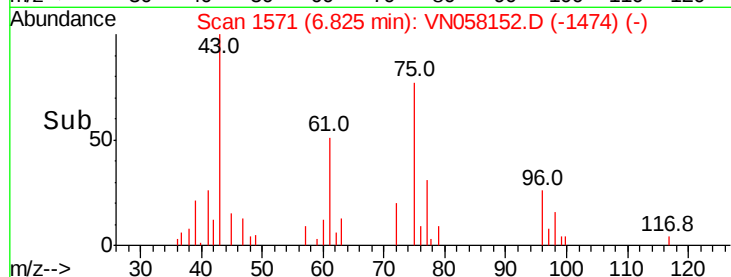
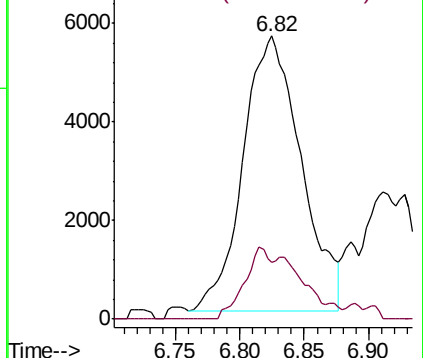
43 100

72 20.5 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 0.402 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.01 min

Lab File: VN058152.D

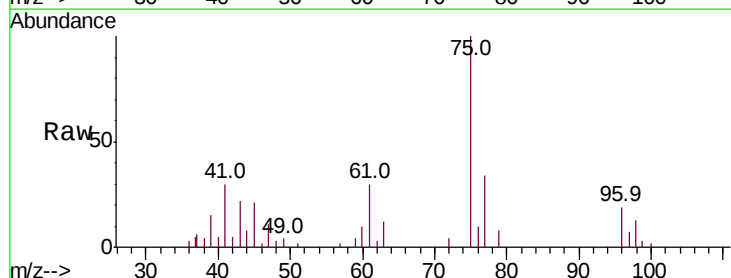
Acq: 18 Sep 2019 9:21

Tgt Ion: 77 Resp: 4514

Ion Ratio Lower Upper

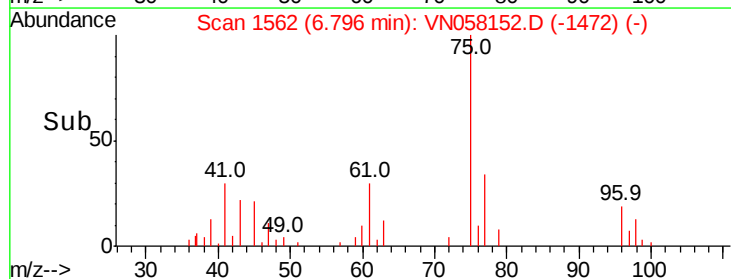
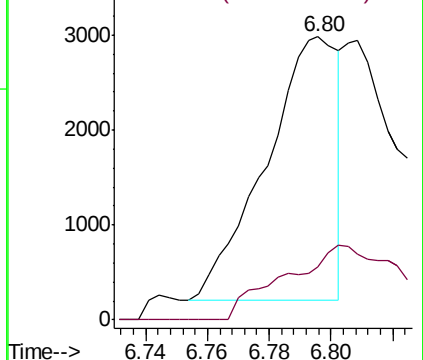
77 100

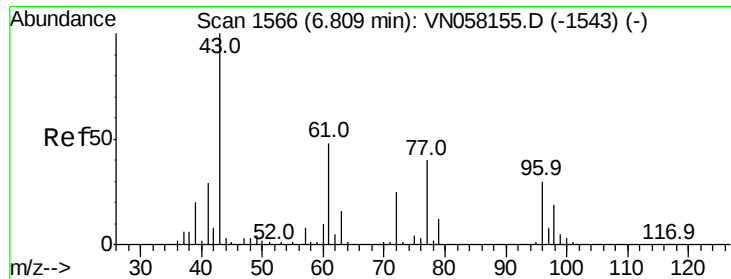
97 44.3 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.743 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampleId :

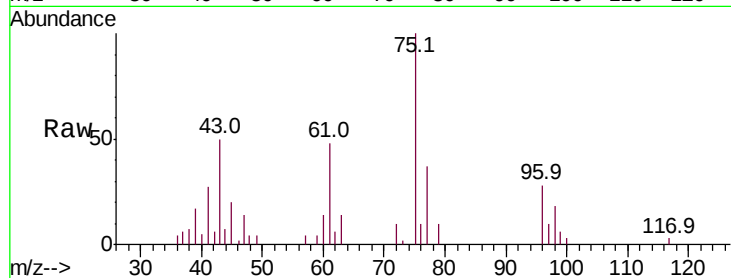
Tot Ion: 96 Resp: 6087

Ion Ratio Lower Upper

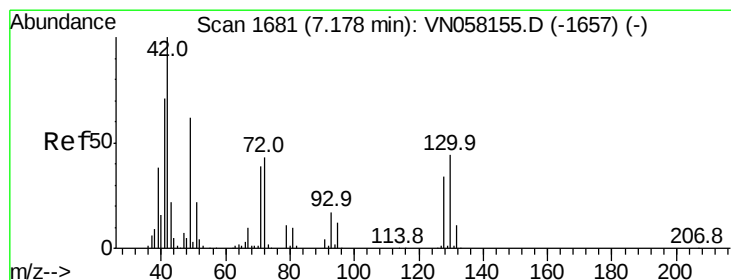
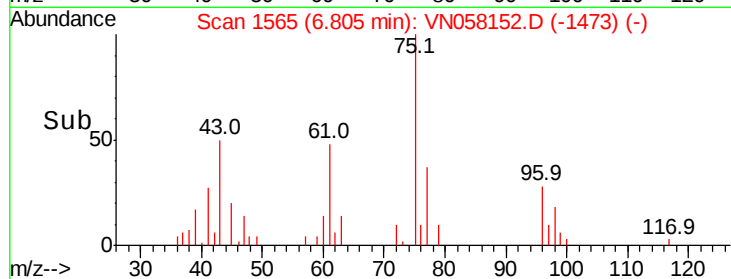
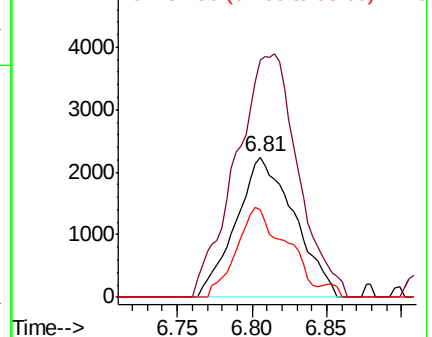
96 100

61 184.7 0.0 319.0

98 54.9 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0  
Ion 60.90 (60.60 to 61.60): VN0  
Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 0.766 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. -0.01 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

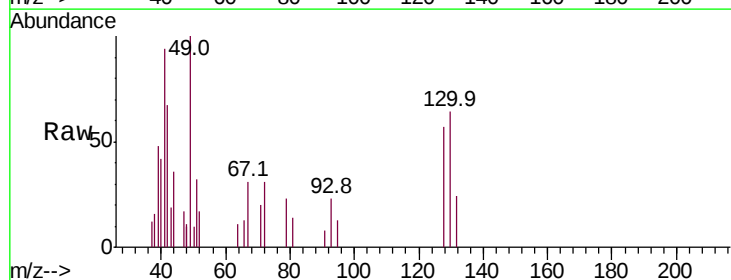
Tgt Ion: 49 Resp: 5416

Ion Ratio Lower Upper

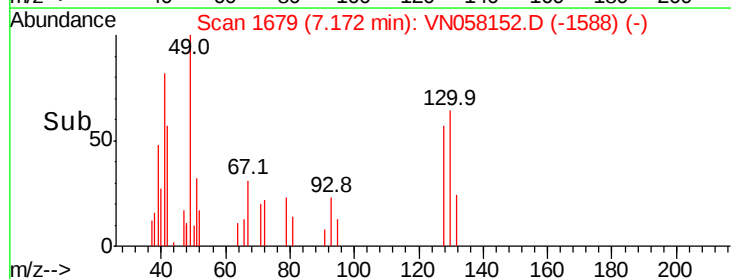
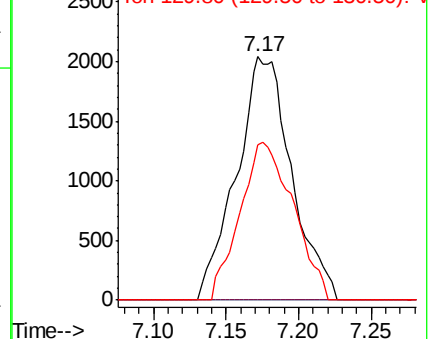
49 100

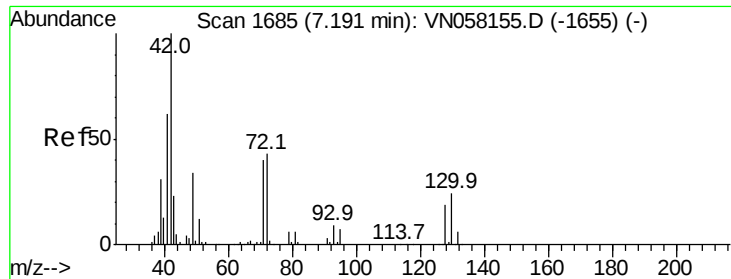
129 0.0 0.0 1.8

130 62.4 55.4 83.2



Abundance Ion 48.90 (48.60 to 49.60): VN0  
Ion 128.80 (128.50 to 129.50): V  
Ion 129.80 (129.50 to 130.50): V

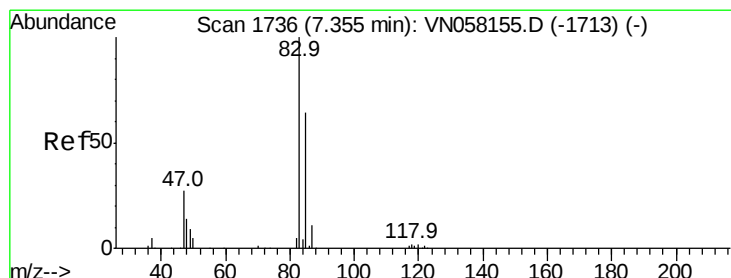
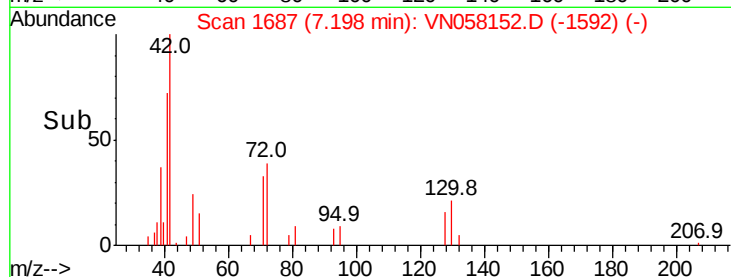
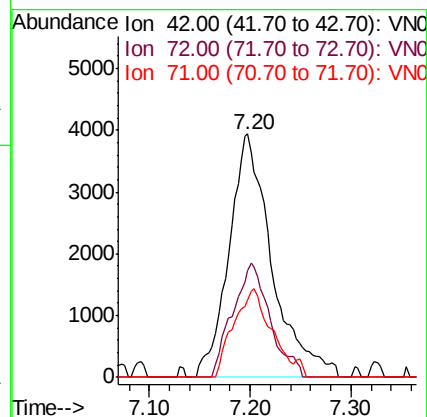
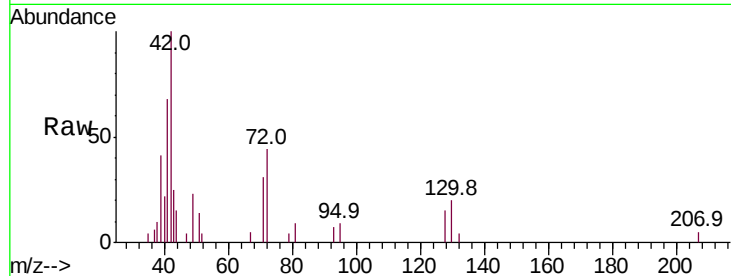




#29  
Tetrahydrofuran  
Concen: 3.717 ug/l  
RT: 7.20 min Scan# 1687  
Delta R.T. 0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

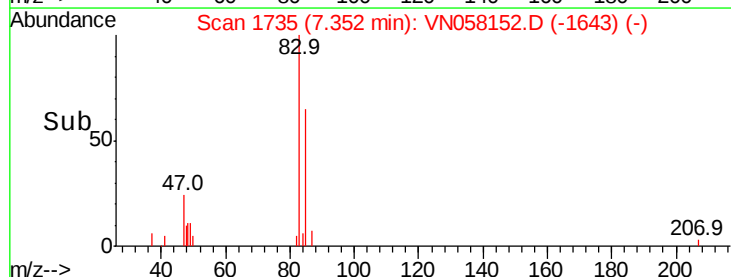
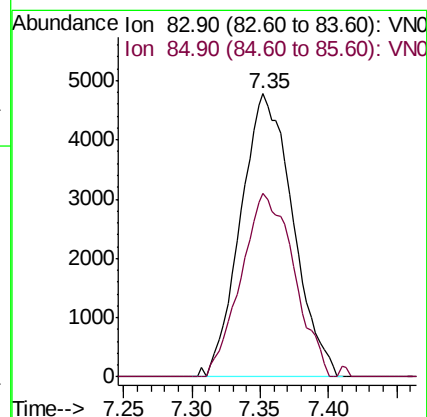
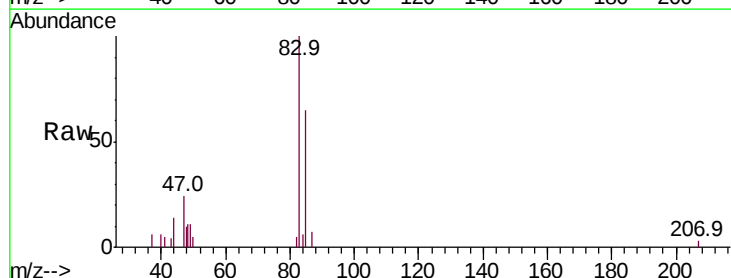
Instrument :  
MSVOA\_N  
ClientSampled :

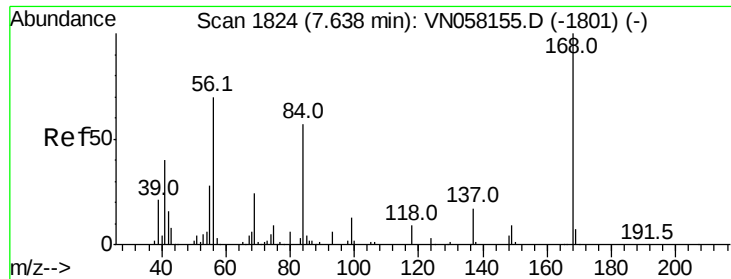
Tot Ion: 42 Resp: 11660  
Ion Ratio Lower Upper  
42 100  
72 40.7 33.8 50.6  
71 31.6 31.4 47.0



#30  
Chloroform  
Concen: 0.853 ug/l  
RT: 7.35 min Scan# 1735  
Delta R.T. -0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 83 Resp: 12665  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.4 77.2

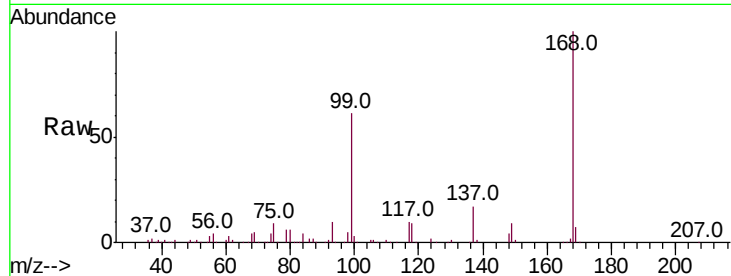




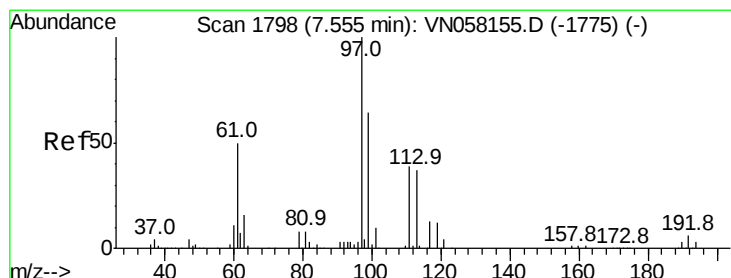
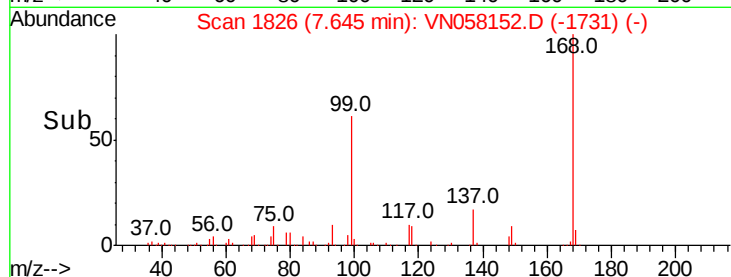
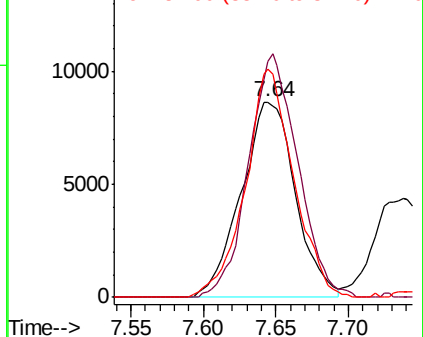
#31  
Cyclohexane  
Concen: 2.154 ug/l  
RT: 7.64 min Scan# 1826  
Delta R.T. 0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 56 Resp: 22466  
Ion Ratio Lower Upper  
56 100  
69 120.9 27.3 40.9#  
84 117.1 65.0 97.4#

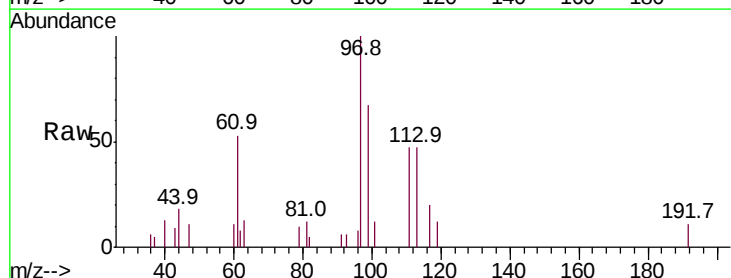


Abundance Ion 56.00 (55.70 to 56.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 84.00 (83.70 to 84.70): VNC

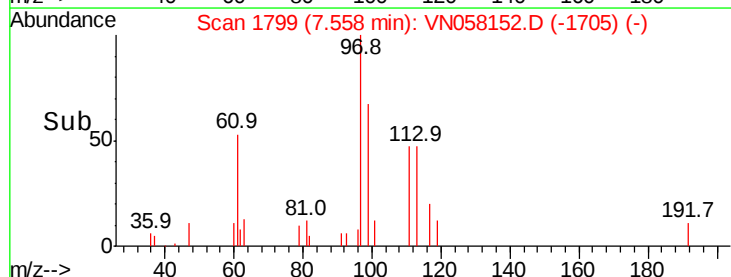
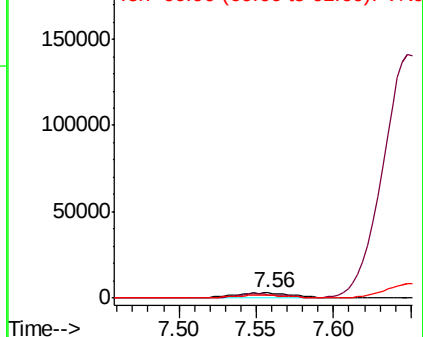


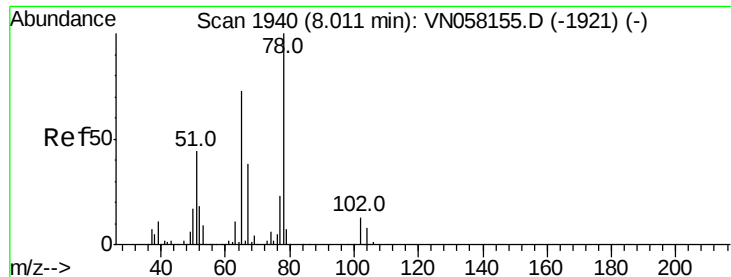
#32  
1,1,1-Trichloroethane  
Concen: 0.695 ug/l  
RT: 7.56 min Scan# 1799  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 97 Resp: 8175  
Ion Ratio Lower Upper  
97 100  
99 0.0 50.9 76.3#  
61 52.1 39.2 58.8



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

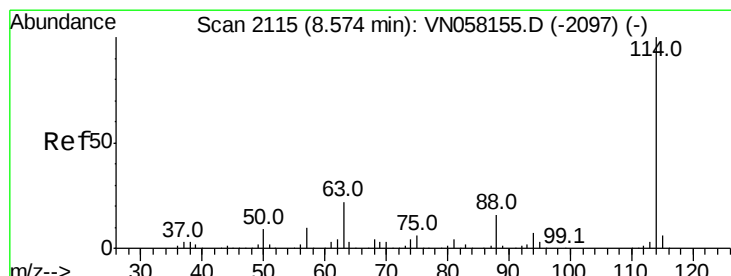
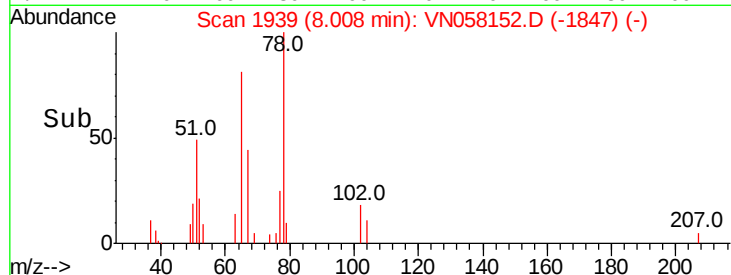
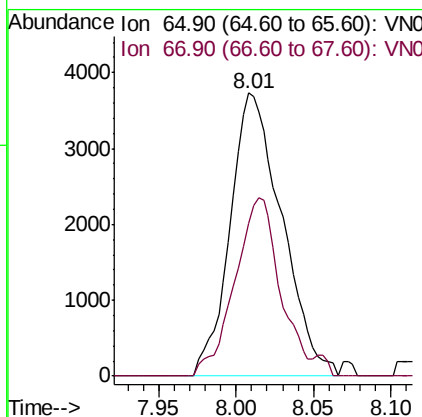
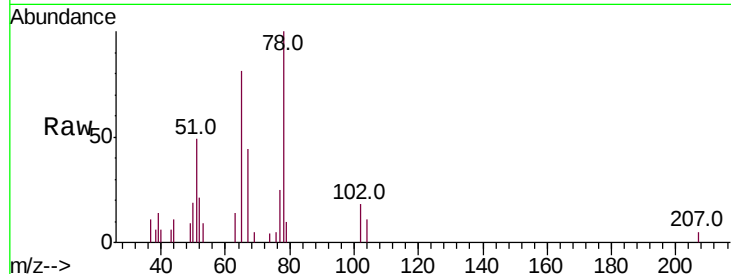




#33  
 1,2-Dichloroethane-d4  
 Concen: 0.809 ug/l  
 RT: 8.01 min Scan# 1939  
 Delta R.T. -0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

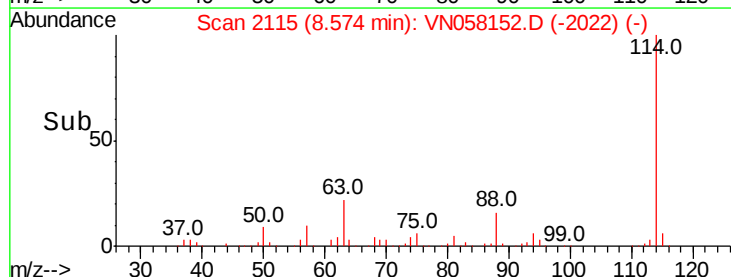
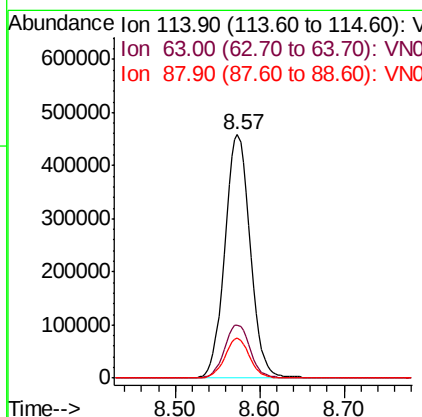
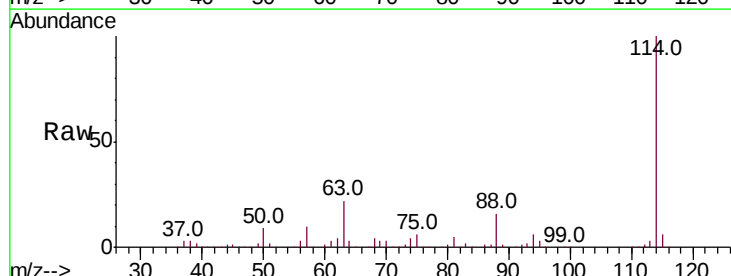
Instrument :  
 MSVOA\_N  
 ClientSampleId :

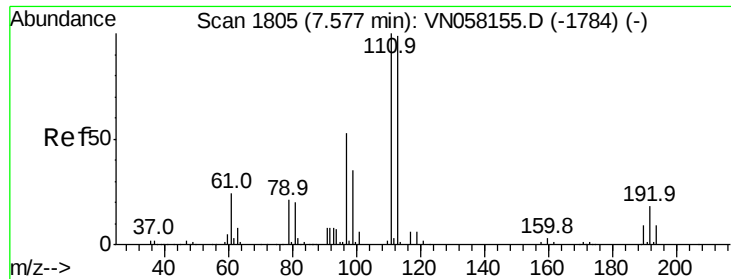
Tot Ion: 65 Resp: 8654  
 Ion Ratio Lower Upper  
 65 100  
 67 55.4 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 114 Resp: 957566  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 44.2  
 88 16.2 0.0 31.6

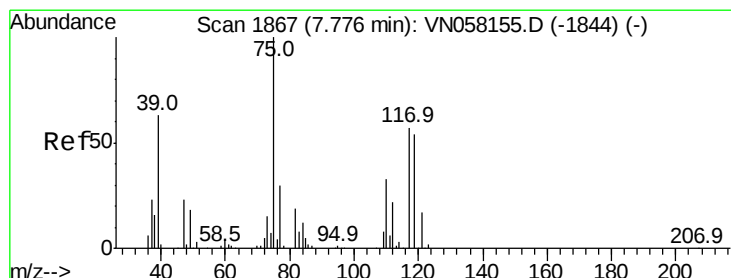
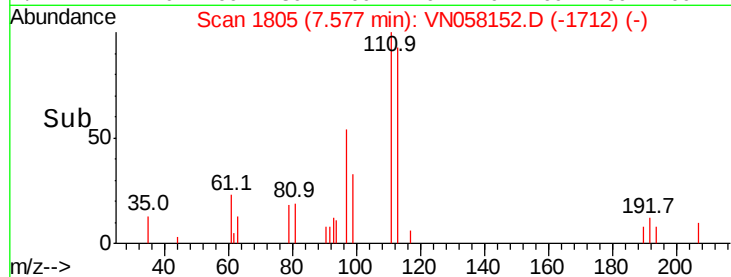
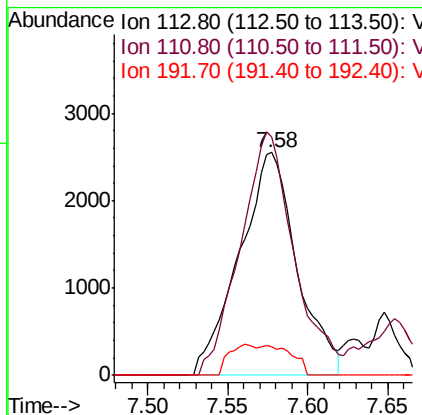
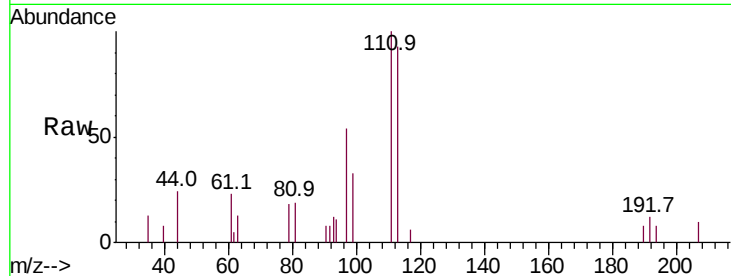




#35  
 Dibromofluoromethane  
 Concen: 0.766 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

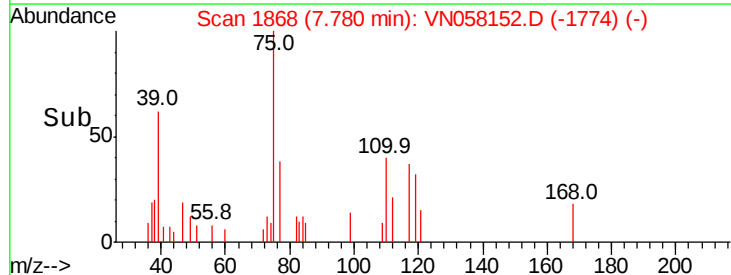
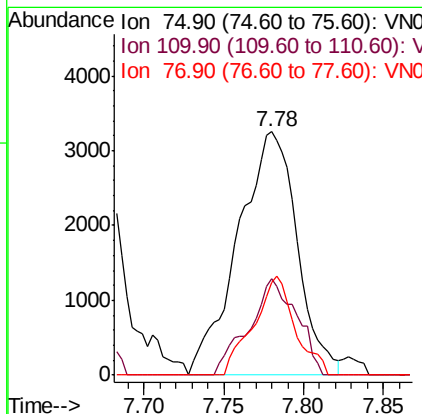
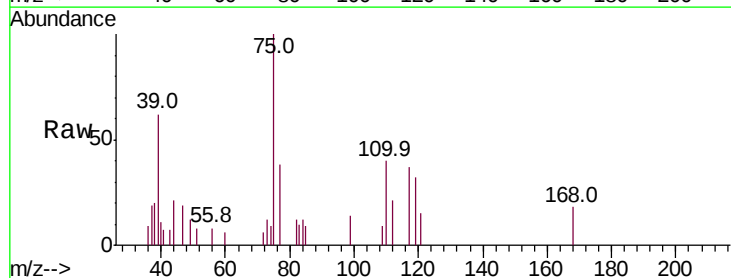
Instrument :  
 MSVOA\_N  
 ClientSampled :

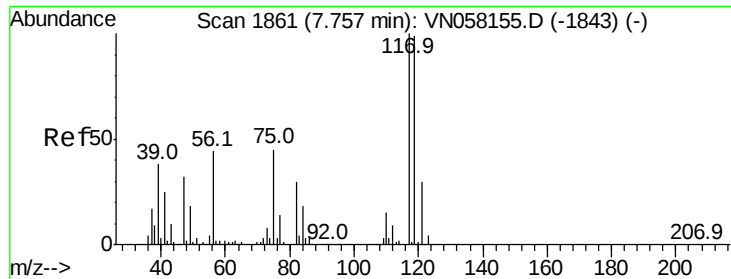
Tot Ion:113 Resp: 6337  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 81.8 122.6  
 192 6.4 14.5 21.7#



#36  
 1,1-Dichloropropene  
 Concen: 0.796 ug/l  
 RT: 7.78 min Scan# 1868  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 75 Resp: 8288  
 Ion Ratio Lower Upper  
 75 100  
 110 32.1 16.6 49.7  
 77 28.4 24.3 36.5

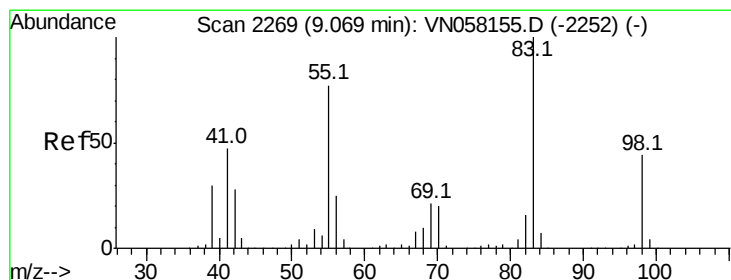
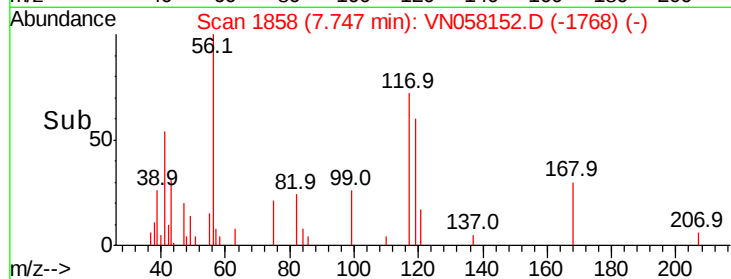
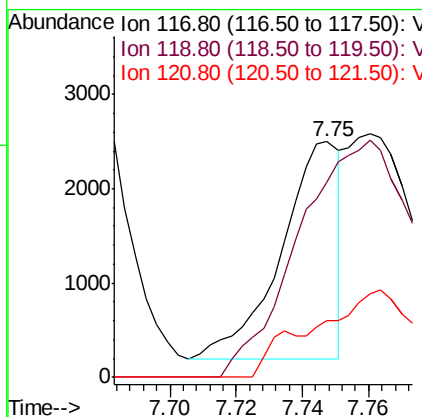
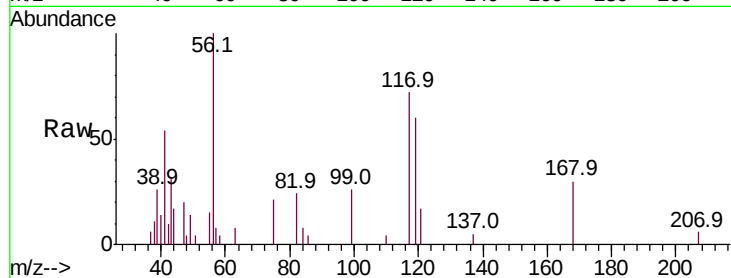




#38  
Carbon Tetrachloride  
Concen: 0.297 ug/l  
RT: 7.75 min Scan# 1858  
Delta R.T. -0.01 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

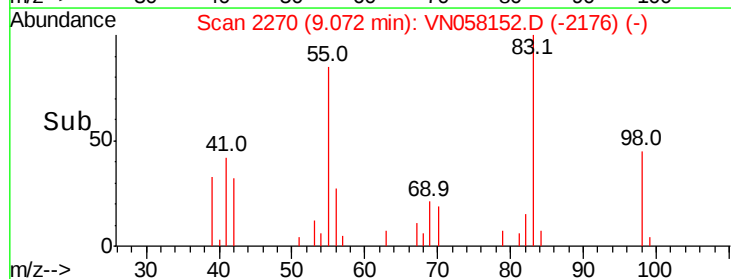
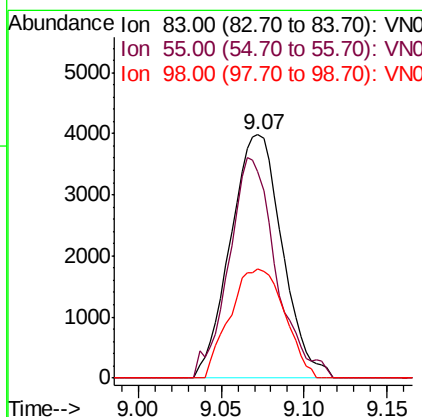
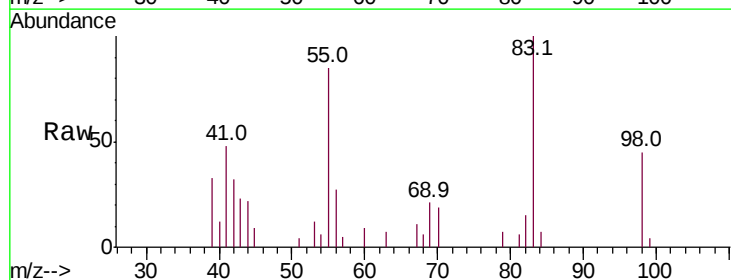
Instrument :  
MSVOA\_N  
ClientSampleId :

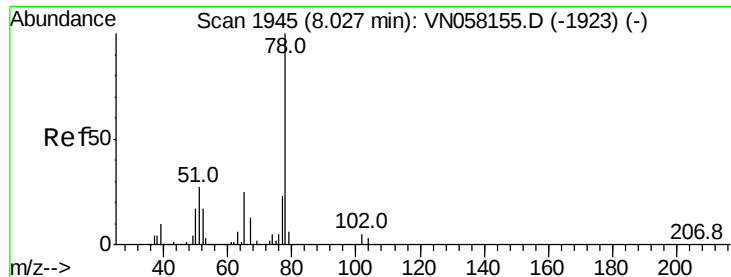
Tot Ion:117 Resp: 2837  
Ion Ratio Lower Upper  
117 100  
119 89.7 78.6 117.8  
121 25.9 24.1 36.1



#39  
Methylcyclohexane  
Concen: 0.792 ug/l  
RT: 9.07 min Scan# 2270  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 83 Resp: 8640  
Ion Ratio Lower Upper  
83 100  
55 84.8 61.9 92.9  
98 44.6 35.4 53.2





#40

Benzene

Concen: 0.739 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

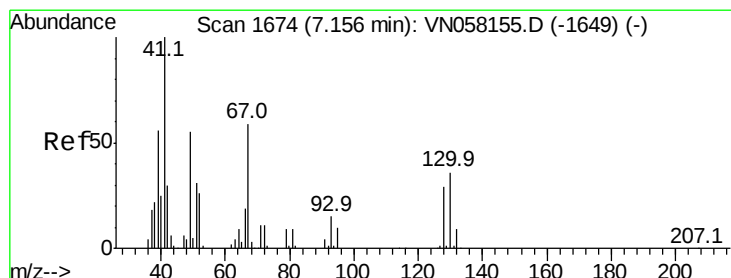
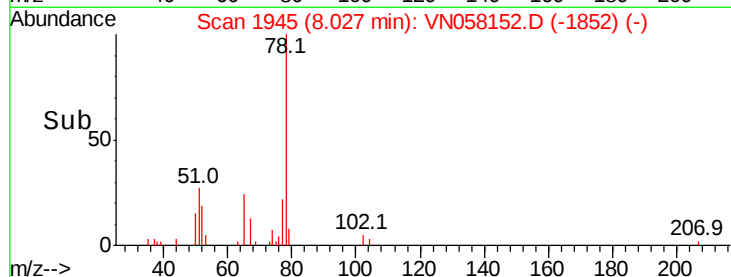
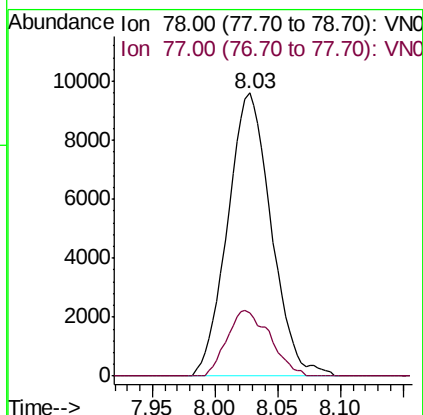
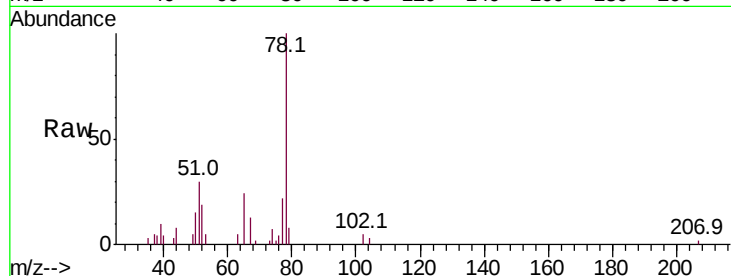
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 78 Resp: 23161

Ion Ratio Lower Upper

78 100

77 22.3 18.8 28.2



#41

Methacrylonitrile

Concen: 2.269 ug/l

RT: 7.19 min Scan# 1684

Delta R.T. 0.03 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Tgt Ion: 41 Resp: 11096

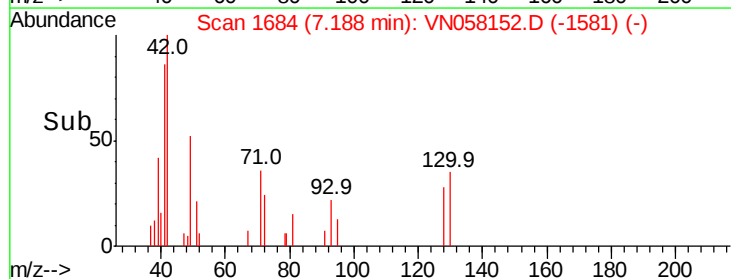
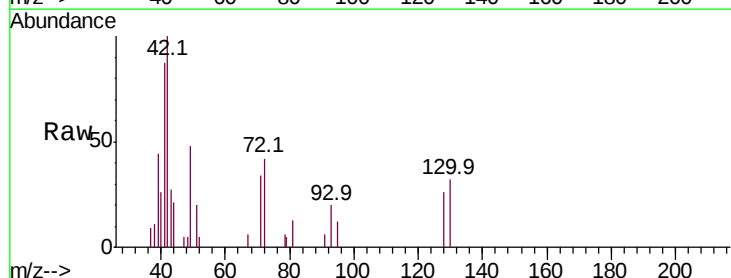
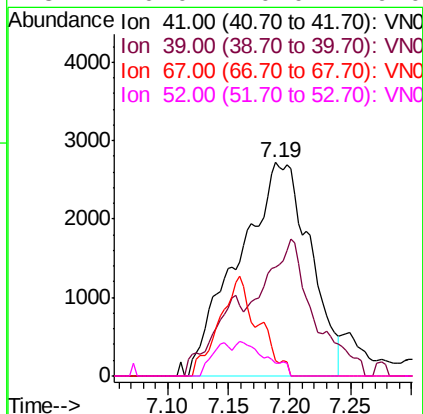
Ion Ratio Lower Upper

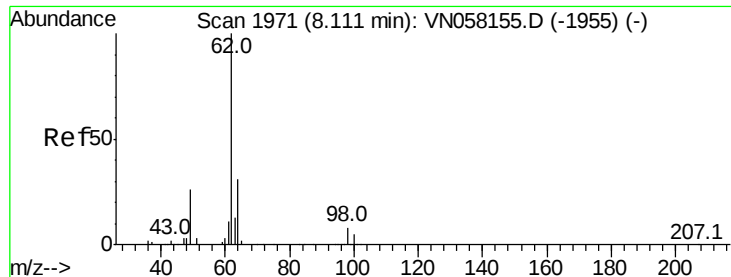
41 100

39 39.8 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0





#42

1,2-Dichloroethane

Concen: 0.766 ug/l

RT: 8.11 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

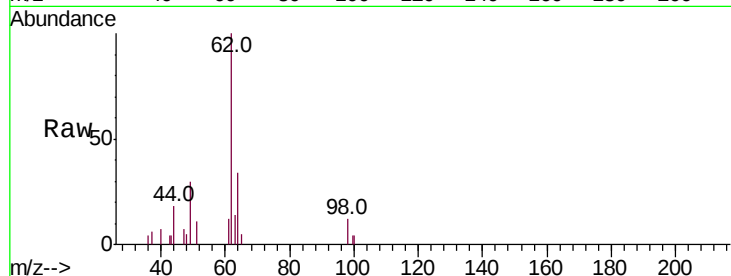
ClientSampleId :

Tot Ion: 62 Resp: 9633

Ion Ratio Lower Upper

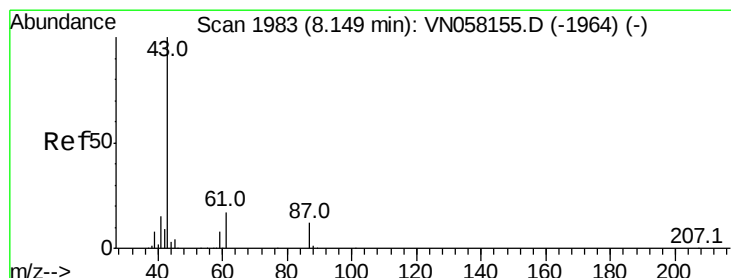
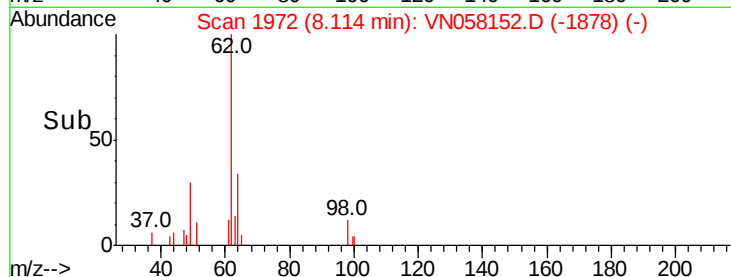
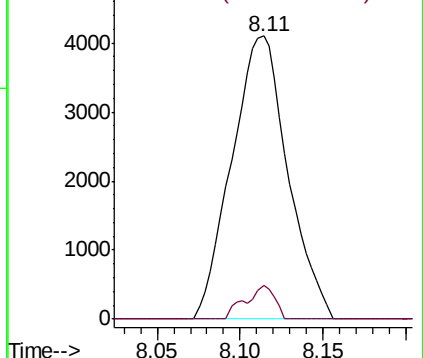
62 100

98 6.1 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#43

Isopropyl Acetate

Concen: 0.782 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

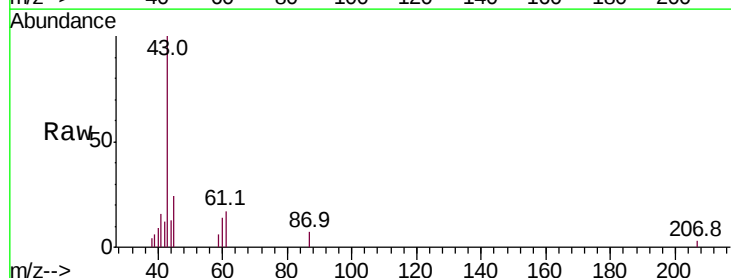
Tgt Ion: 43 Resp: 14194

Ion Ratio Lower Upper

43 100

61 15.6 19.7 29.5#

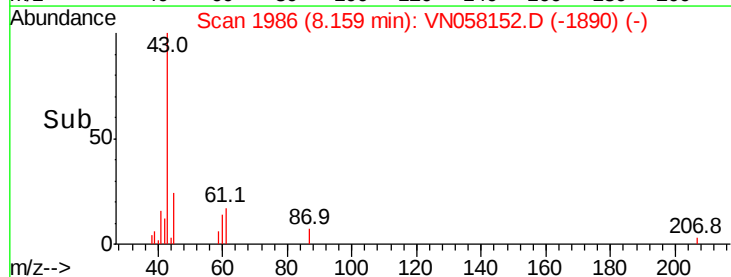
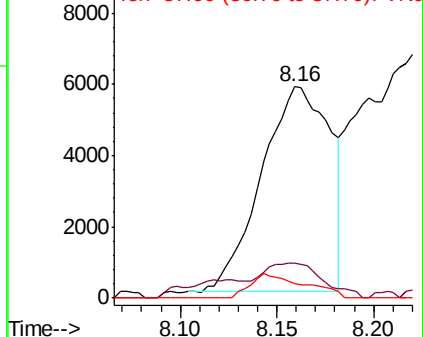
87 0.0 9.4 14.2#

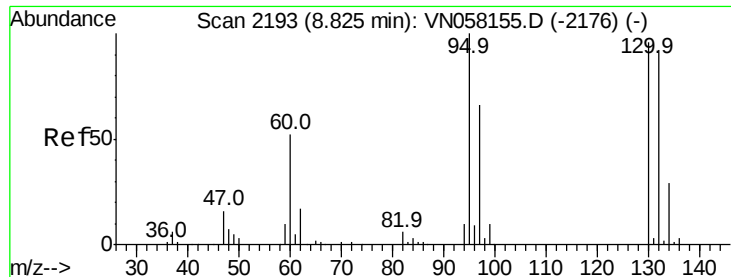


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 0.680 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

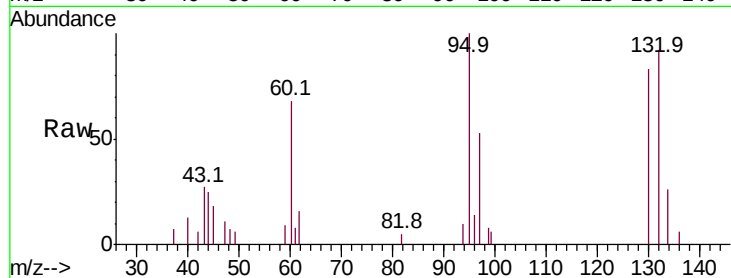
ClientSampleId :

Tot Ion:130 Resp: 5241

Ion Ratio Lower Upper

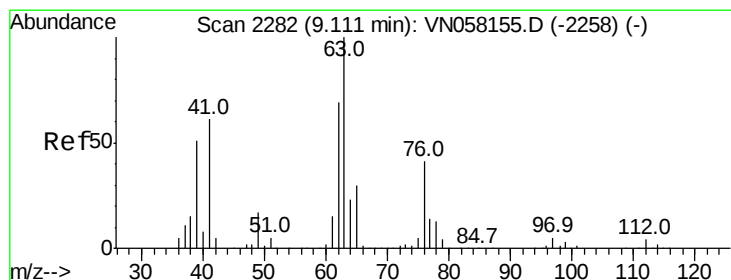
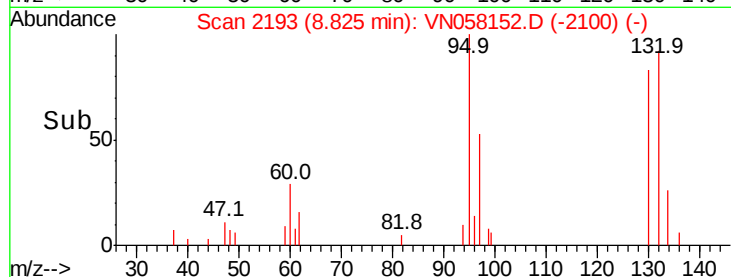
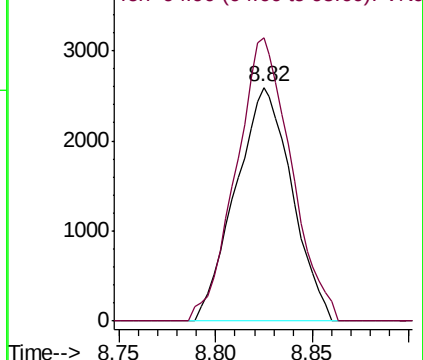
130 100

95 121.0 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#45

1,2-Dichloropropane

Concen: 0.691 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN058152.D

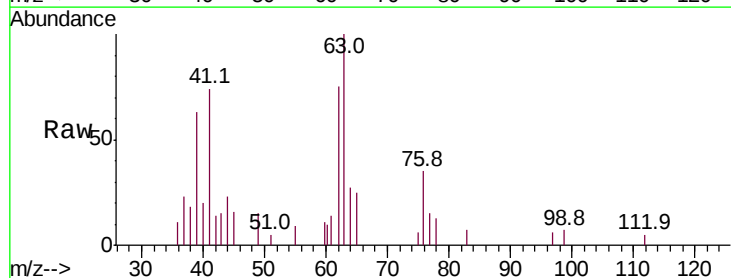
Acq: 18 Sep 2019 9:21

Tgt Ion: 63 Resp: 6319

Ion Ratio Lower Upper

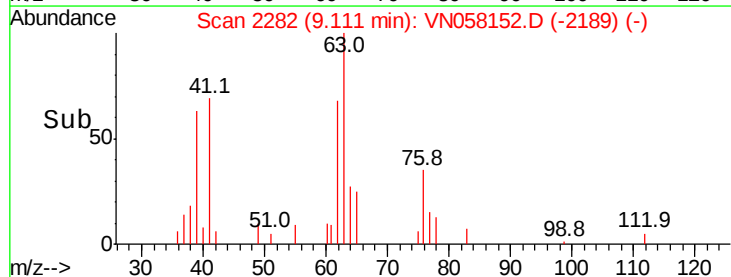
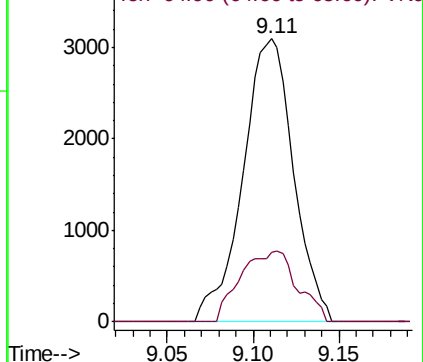
63 100

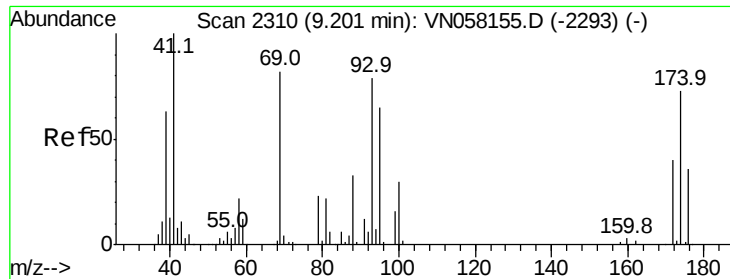
65 24.5 23.8 35.6



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO





#46

Dibromomethane

Concen: 0.715 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampleId :

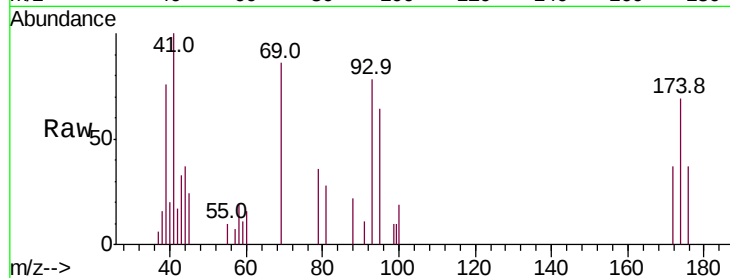
Tot Ion: 93 Resp: 3952

Ion Ratio Lower Upper

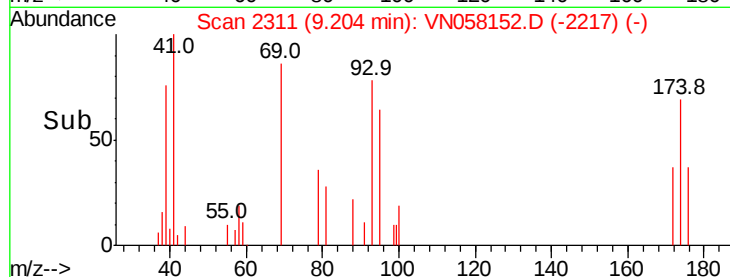
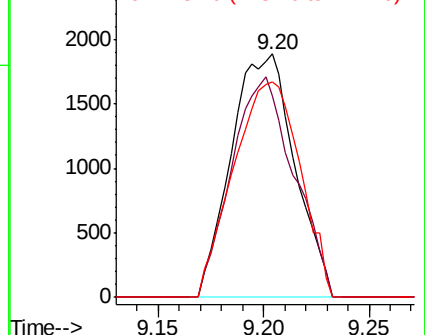
93 100

95 89.0 66.8 100.2

174 92.9 73.8 110.8



Abundance Ion 92.80 (92.50 to 93.50): VN0  
Ion 94.80 (94.50 to 95.50): VN0  
Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 0.684 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

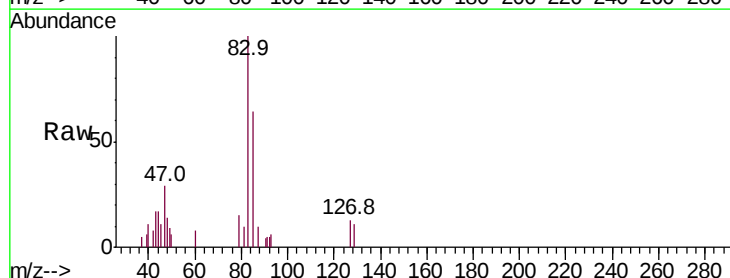
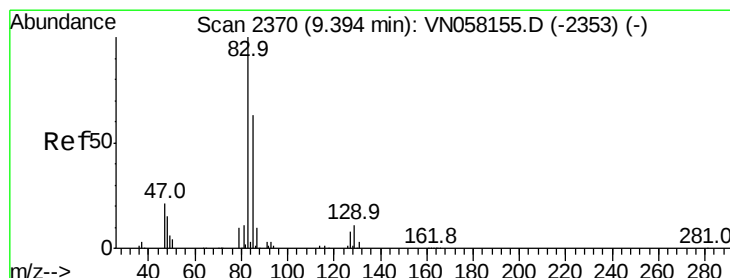
Tgt Ion: 83 Resp: 7527

Ion Ratio Lower Upper

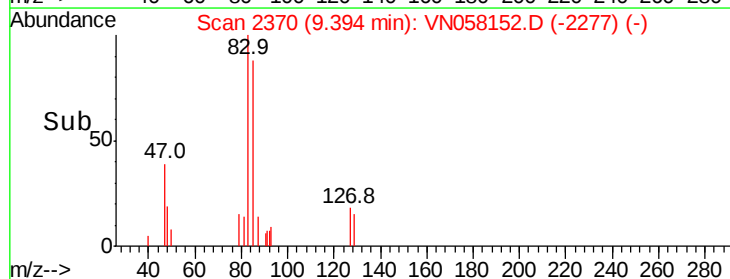
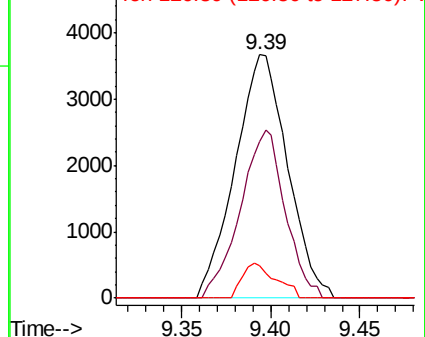
83 100

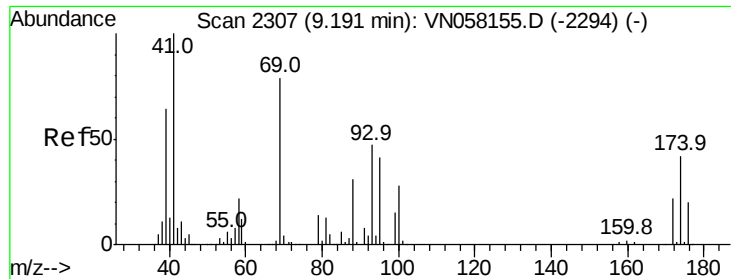
85 64.2 50.1 75.1

127 13.3 6.4 9.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0  
Ion 84.90 (84.60 to 85.60): VN0  
Ion 126.80 (126.50 to 127.50): V

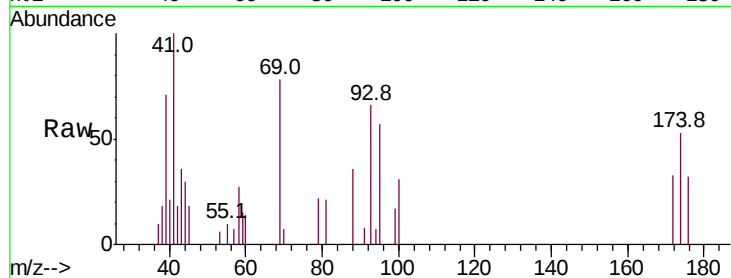




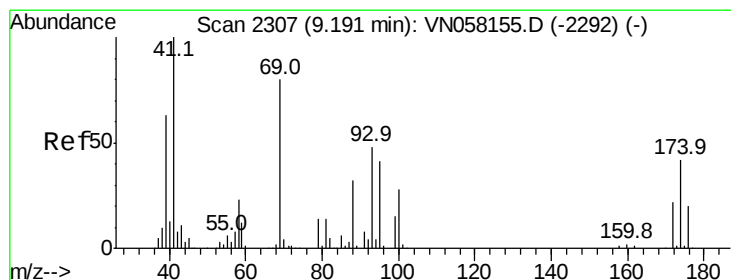
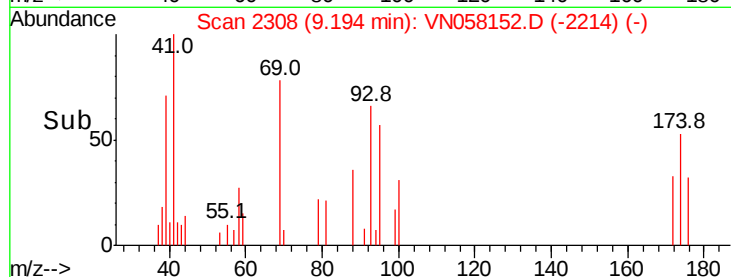
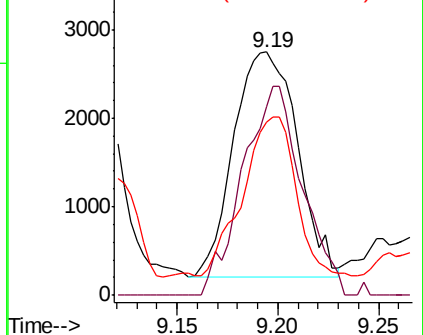
#48  
Methvl methacrylate  
Concen: 0.611 ug/l  
RT: 9.19 min Scan# 2308  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 41 Resp: 5595  
Ion Ratio Lower Upper  
41 100  
69 86.6 62.5 93.7  
39 58.8 52.3 78.5

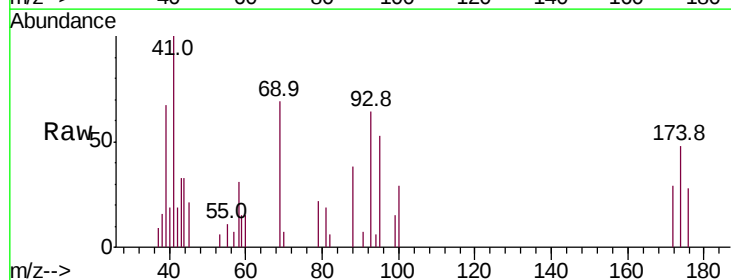


Abundance Ion 41.00 (40.70 to 41.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 39.00 (38.70 to 39.70): VNC

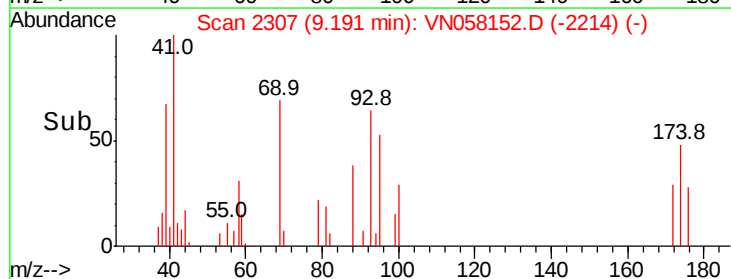
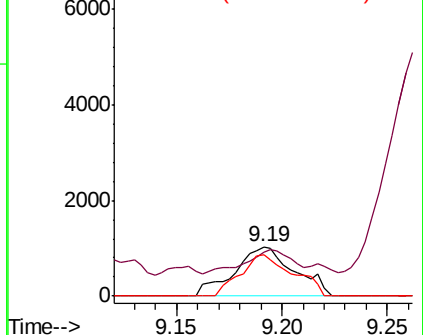


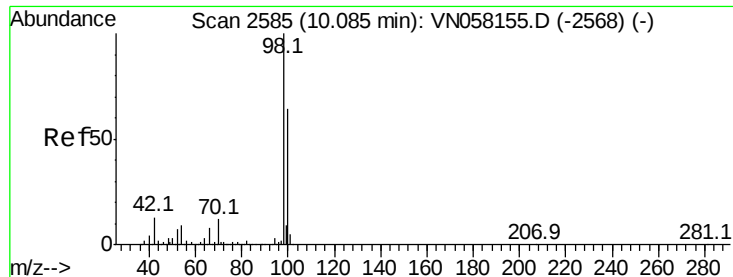
#49  
1,4-Dioxane  
Concen: 12.968 ug/l  
RT: 9.19 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 88 Resp: 2017  
Ion Ratio Lower Upper  
88 100  
43 36.5 27.8 41.8  
58 74.3 55.0 82.4



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





#50

Toluene-d8

Concen: 0.878 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

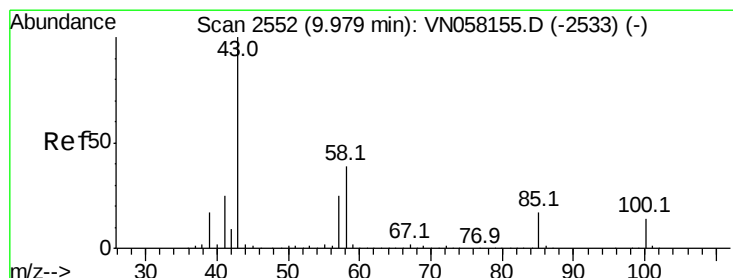
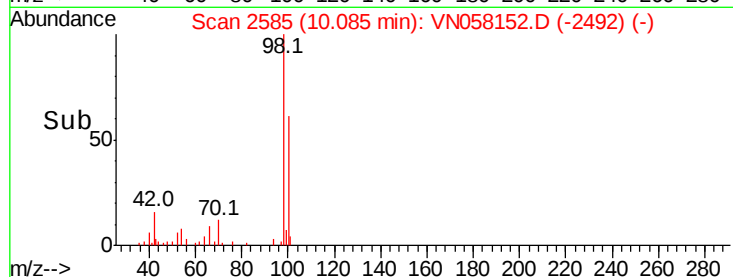
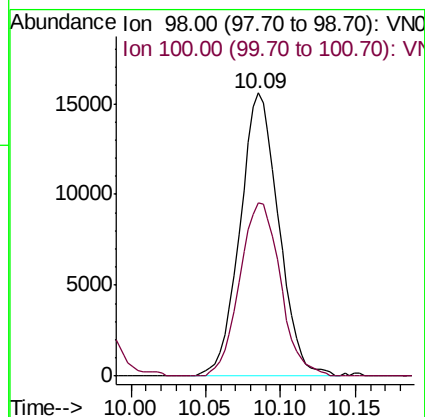
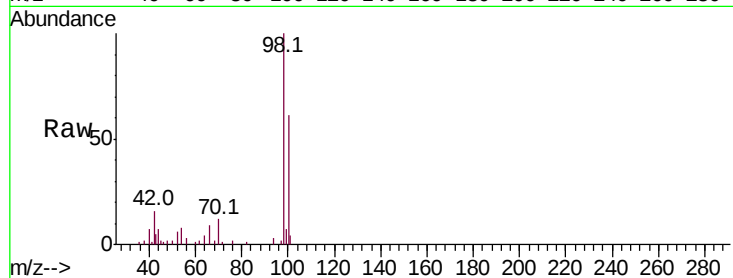
ClientSampled :

Tot Ion: 98 Resp: 28057

Ion Ratio Lower Upper

98 100

100 64.4 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 3.282 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058152.D

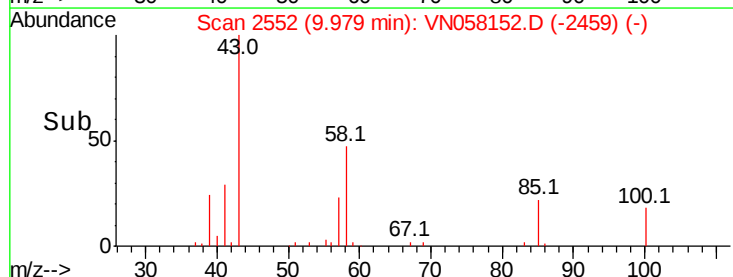
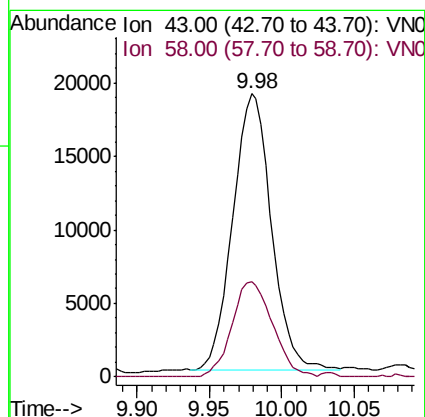
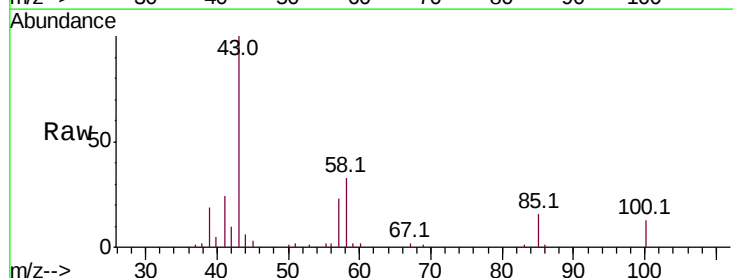
Acq: 18 Sep 2019 9:21

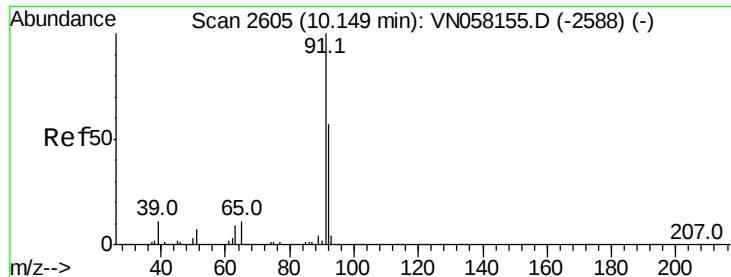
Tgt Ion: 43 Resp: 34845

Ion Ratio Lower Upper

43 100

58 36.0 30.2 45.4





#52

Toluene

Concen: 0.705 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

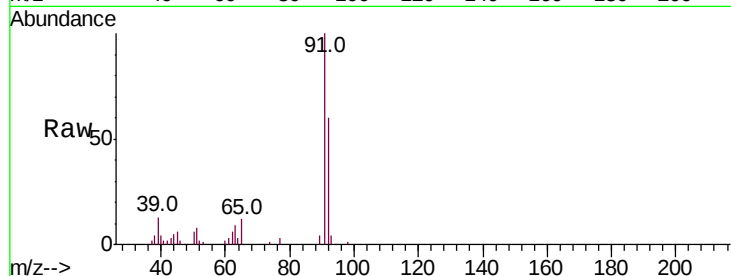
ClientSampled :

Tot Ion: 92 Resp: 13905

Ion Ratio Lower Upper

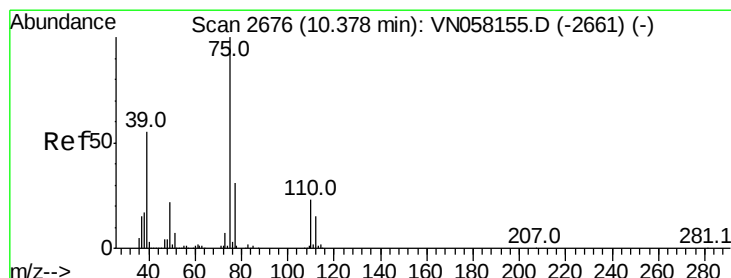
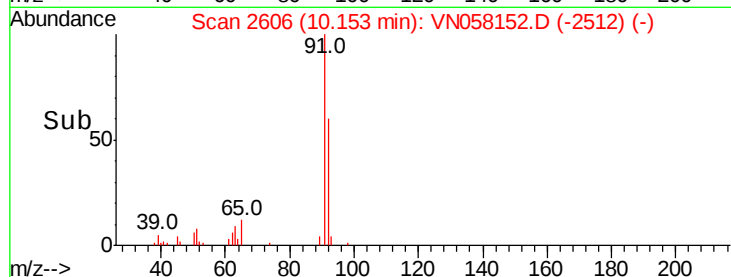
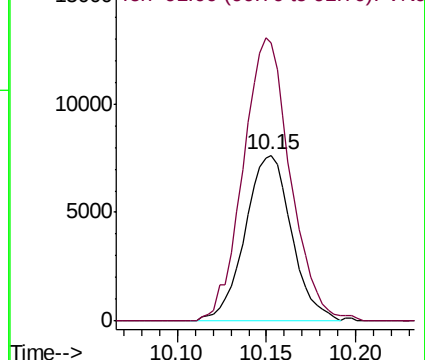
92 100

91 173.3 140.2 210.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 0.611 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058152.D

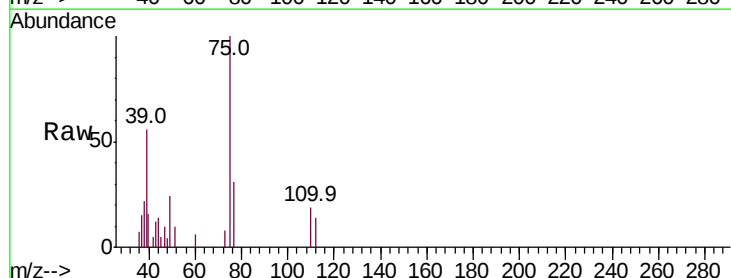
Acq: 18 Sep 2019 9:21

Tgt Ion: 75 Resp: 7065

Ion Ratio Lower Upper

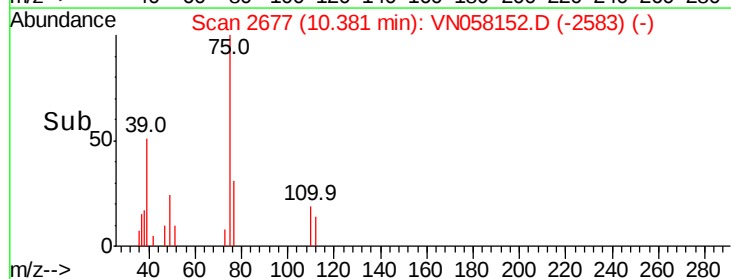
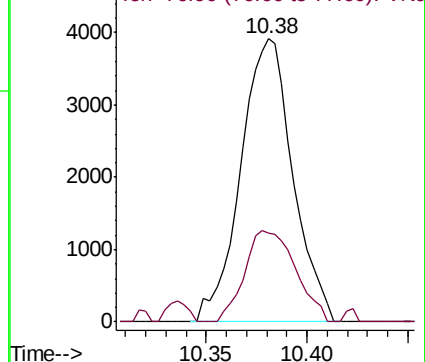
75 100

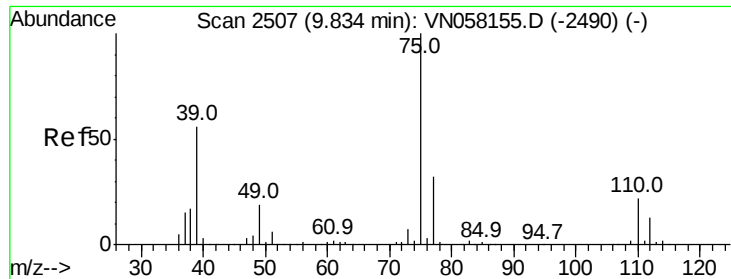
77 31.3 24.9 37.3



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

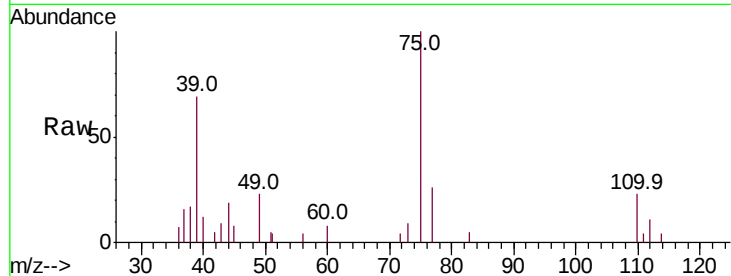




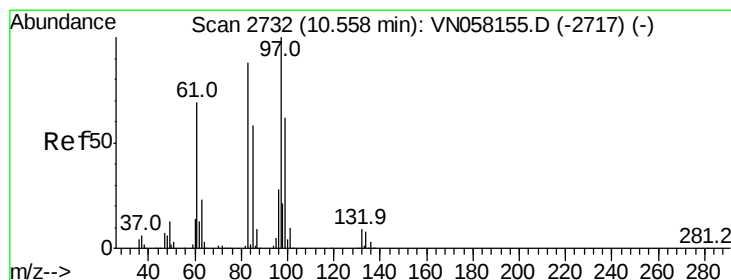
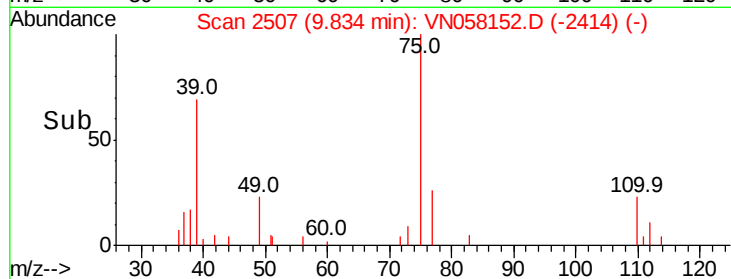
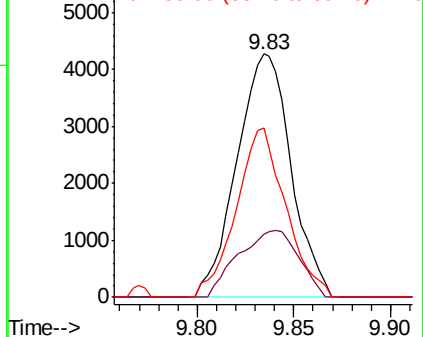
#54  
 cis-1,3-Dichloropropene  
 Concen: 0.650 ug/l  
 RT: 9.83 min Scan# 2507  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Instrument :  
 MSVOA\_N  
 ClientSampled :

Tot Ion: 75 Resp: 8303  
 Ion Ratio Lower Upper  
 75 100  
 77 26.1 25.4 38.0  
 39 69.5 45.0 67.6#

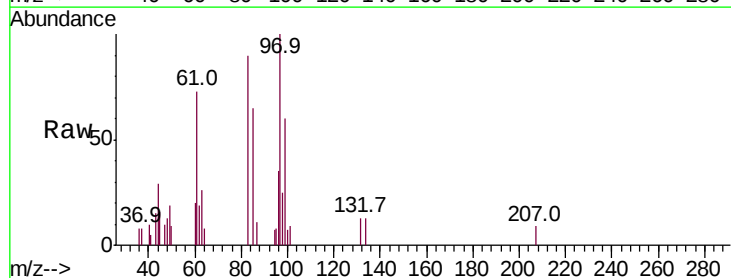


Abundance Ion 74.90 (74.60 to 75.60): VNO  
 Ion 76.90 (76.60 to 77.60): VNO  
 Ion 39.00 (38.70 to 39.70): VNO

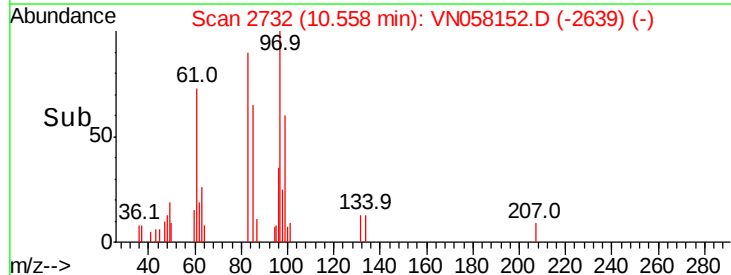
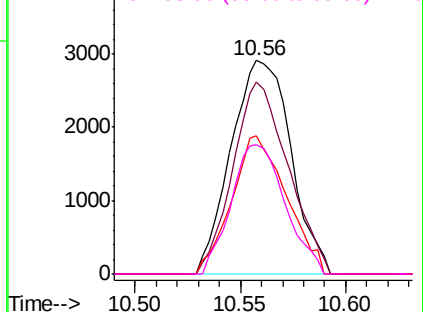


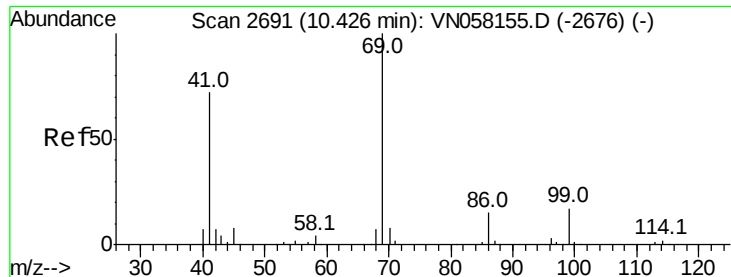
#55  
 1,1,2-Trichloroethane  
 Concen: 0.688 ug/l  
 RT: 10.56 min Scan# 2732  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 97 Resp: 5751  
 Ion Ratio Lower Upper  
 97 100  
 83 89.9 70.4 105.6  
 85 64.9 46.8 70.2  
 99 60.4 49.9 74.9



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





#56

Ethyl methacrylate

Concen: 0.552 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampled :

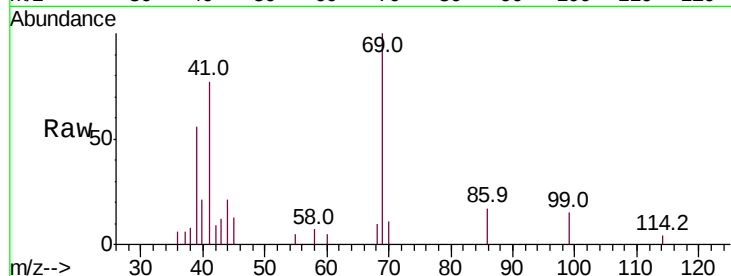
Tot Ion: 69 Resp: 6919

Ion Ratio Lower Upper

69 100

41 81.8 57.5 86.3

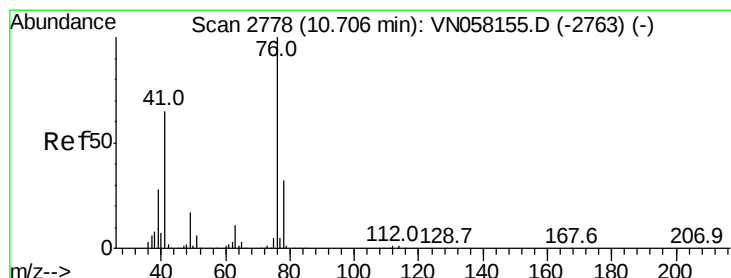
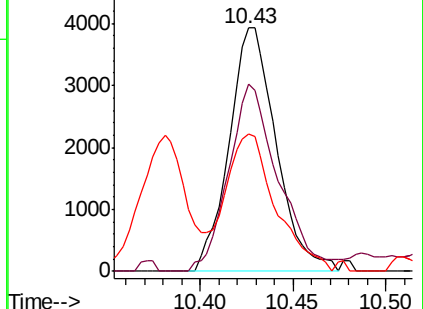
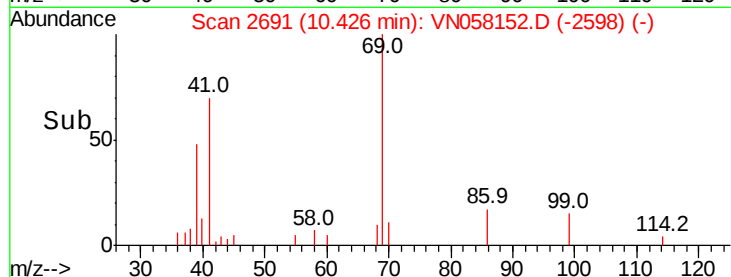
39 60.2 36.1 54.1#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.715 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. -0.00 min

Lab File: VN058152.D

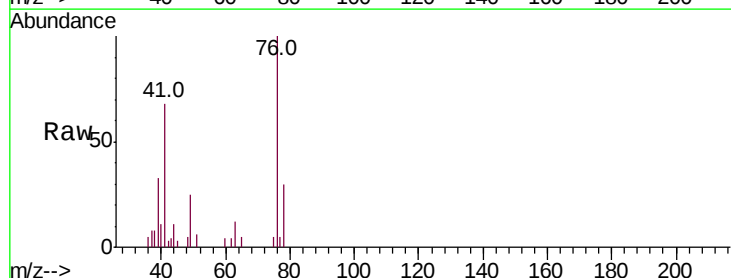
Acq: 18 Sep 2019 9:21

Tgt Ion: 76 Resp: 10299

Ion Ratio Lower Upper

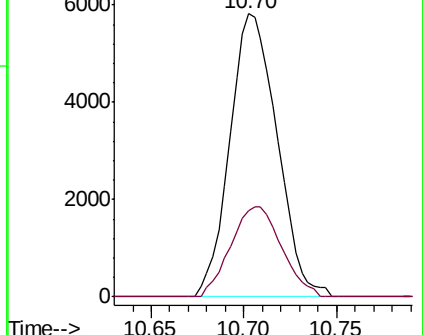
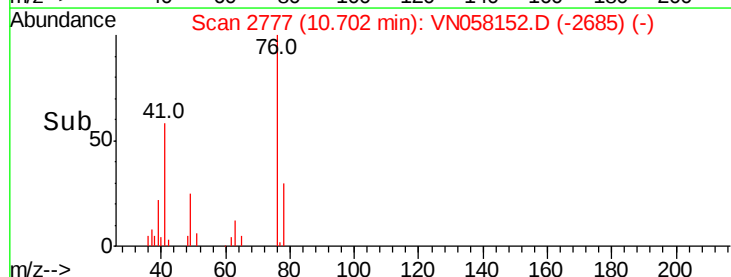
76 100

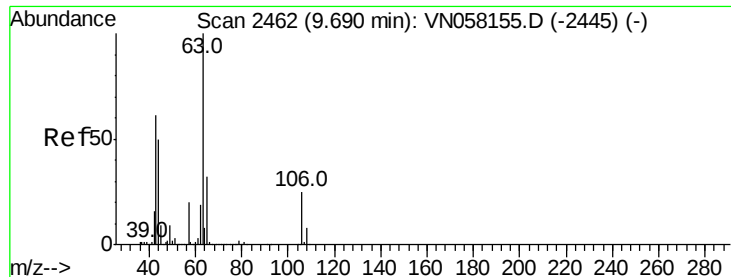
78 34.2 25.4 38.0



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 3.165 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

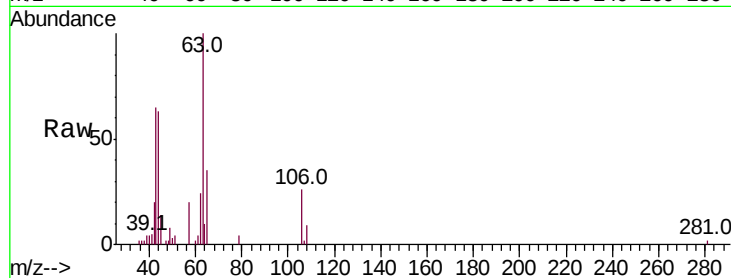
ClientSampled :

Tot Ion: 63 Resp: 18497

Ion Ratio Lower Upper

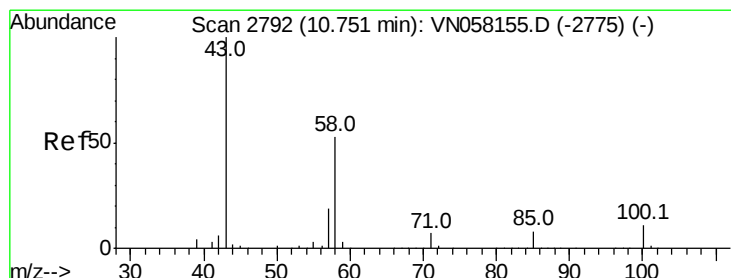
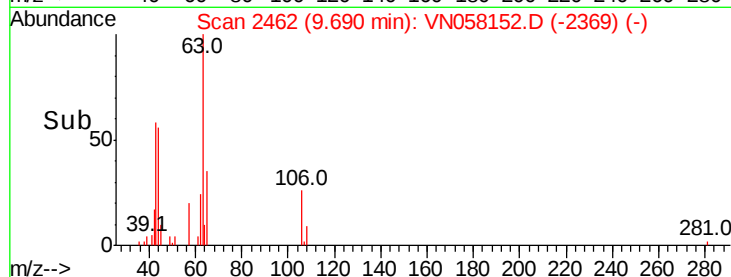
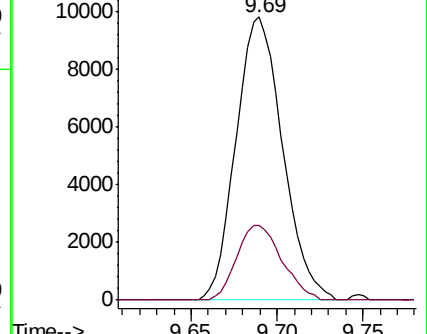
63 100

106 25.4 19.9 29.9



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN0



#59

2-Hexanone

Concen: 3.126 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058152.D

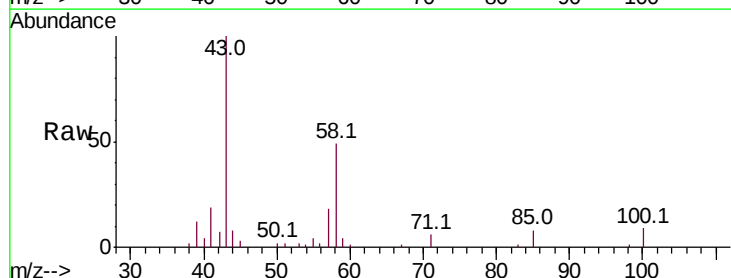
Acq: 18 Sep 2019 9:21

Tgt Ion: 43 Resp: 24817

Ion Ratio Lower Upper

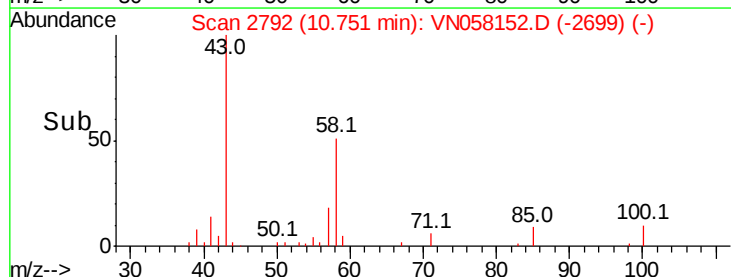
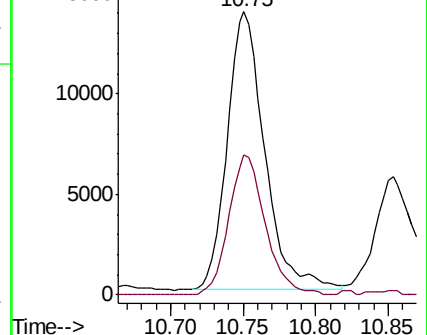
43 100

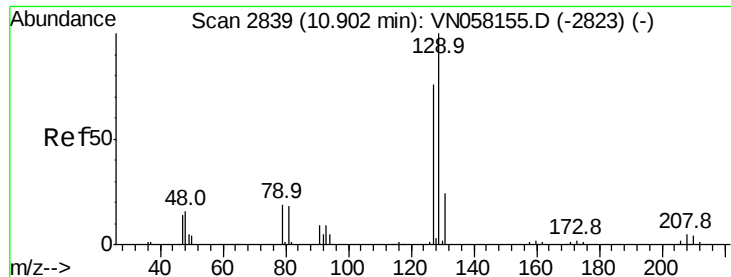
58 49.1 26.0 78.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#60

Dibromochloromethane

Concen: 0.584 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

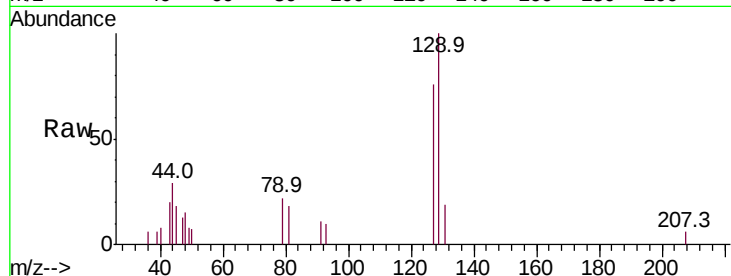
ClientSampled :

Tot Ion:129 Resp: 4528

Ion Ratio Lower Upper

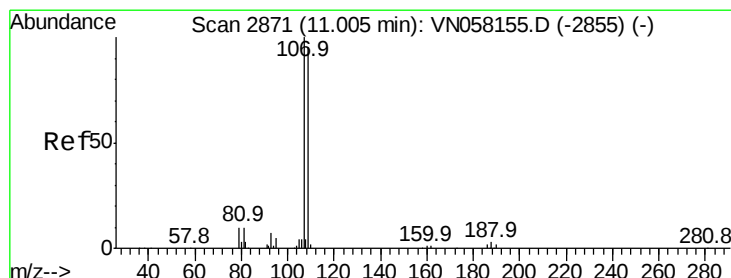
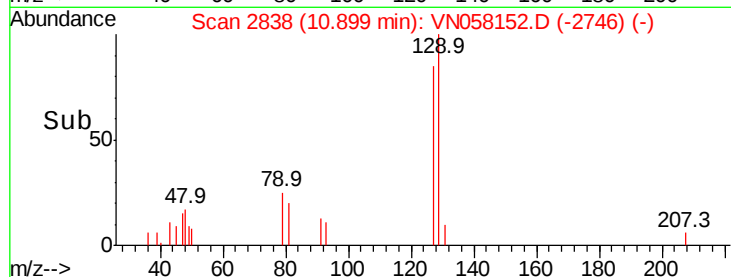
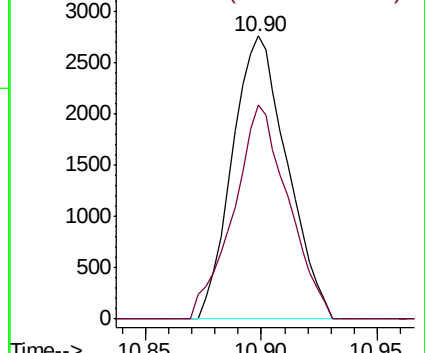
129 100

127 75.7 38.7 116.1



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 0.663 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058152.D

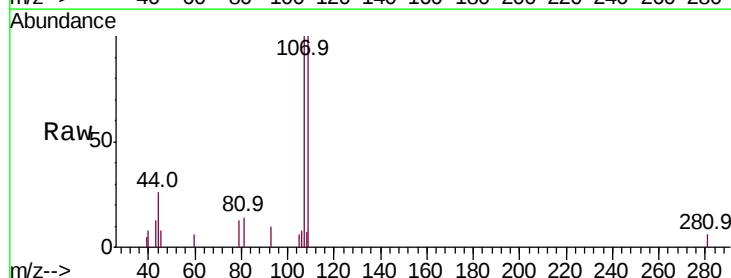
Acq: 18 Sep 2019 9:21

Tgt Ion:107 Resp: 5229

Ion Ratio Lower Upper

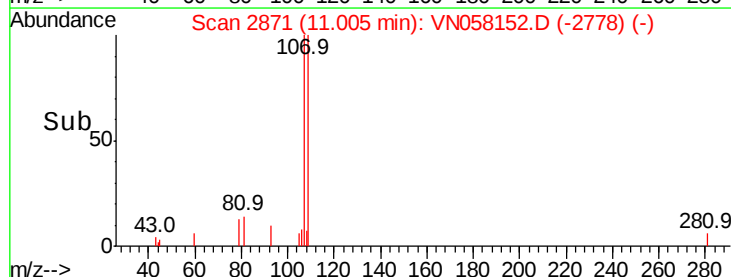
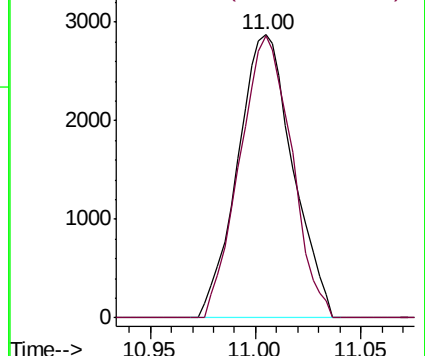
107 100

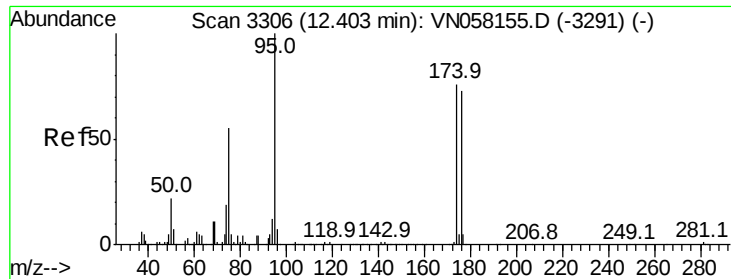
109 93.5 75.4 113.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

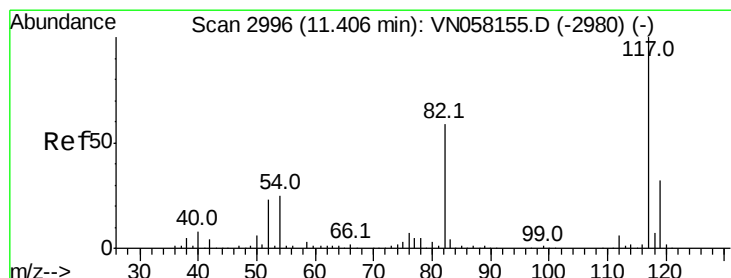
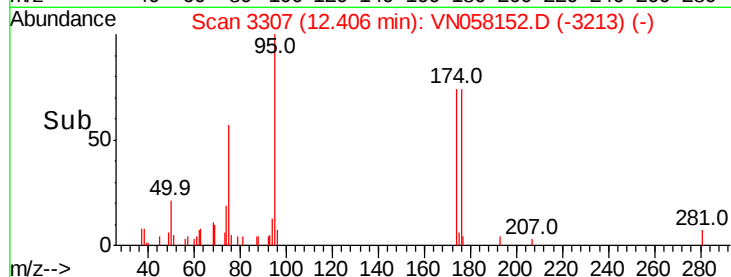
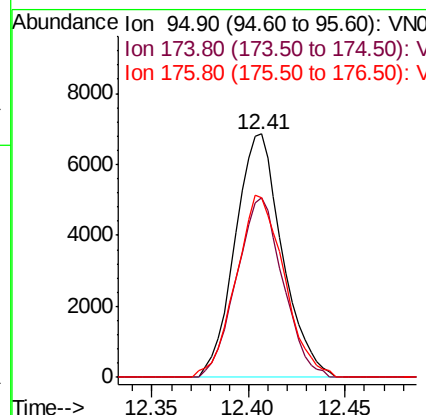
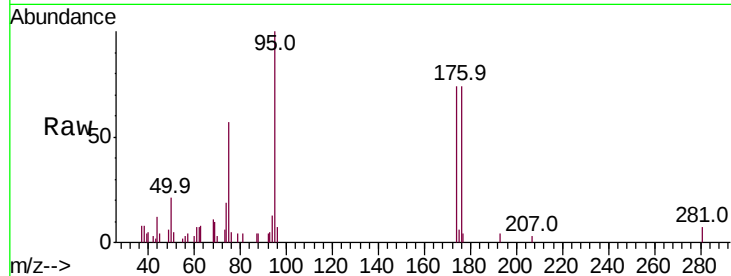




#62  
4-Bromofluorobenzene  
Concen: 0.945 ug/l  
RT: 12.41 min Scan# 3307  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

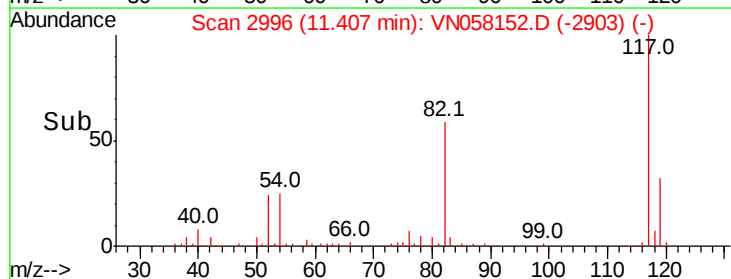
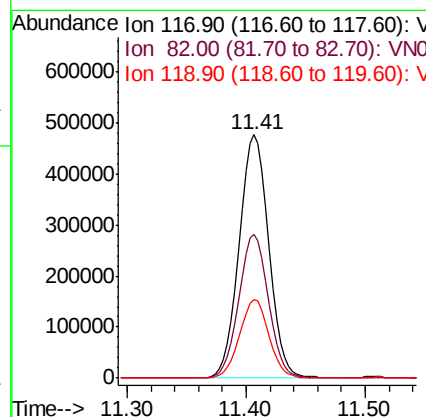
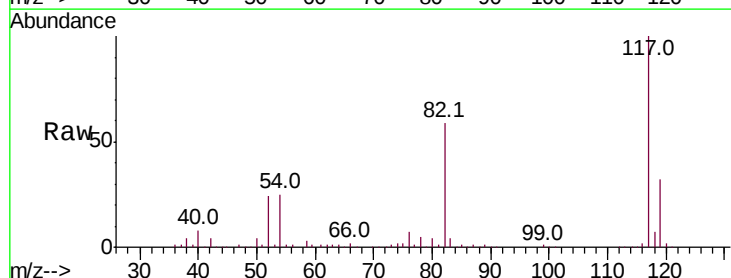
Instrument :  
MSVOA\_N  
ClientSampleId :

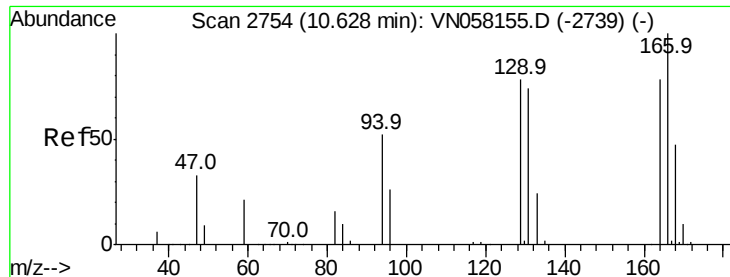
Tot Ion: 95 Resp: 11605  
Ion Ratio Lower Upper  
95 100  
174 72.4 0.0 152.2  
176 76.7 0.0 148.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion: 117 Resp: 823388  
Ion Ratio Lower Upper  
117 100  
82 59.3 46.9 70.3  
119 32.3 25.3 37.9





#64

Tetrachloroethene

Concen: 0.795 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampled :

Tot Ion:164 Resp: 4566

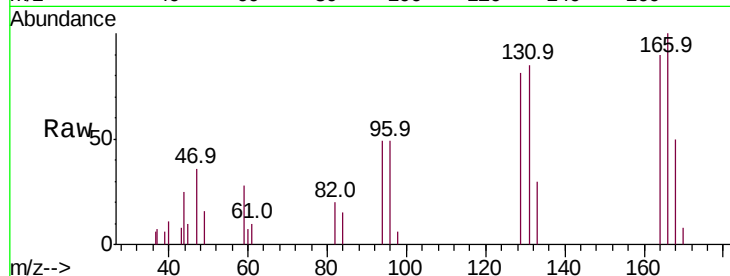
Ion Ratio Lower Upper

164 100

166 111.4 102.2 153.4

129 90.2 79.6 119.4

131 94.9 76.0 114.0

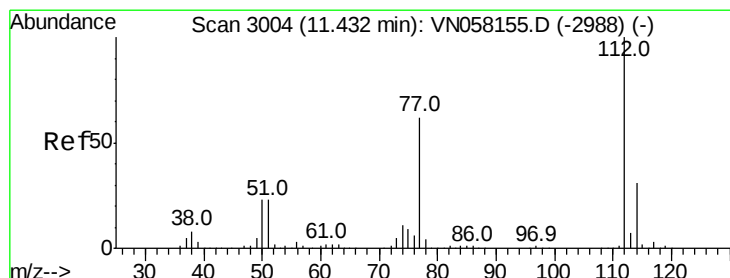
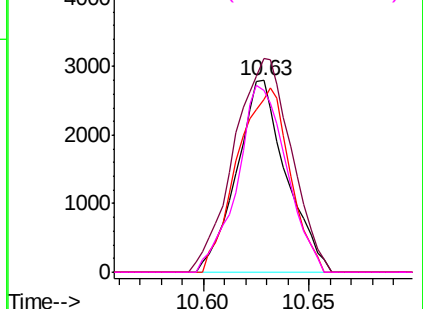
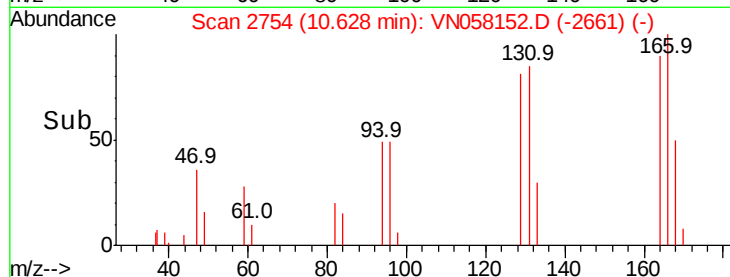


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.773 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058152.D

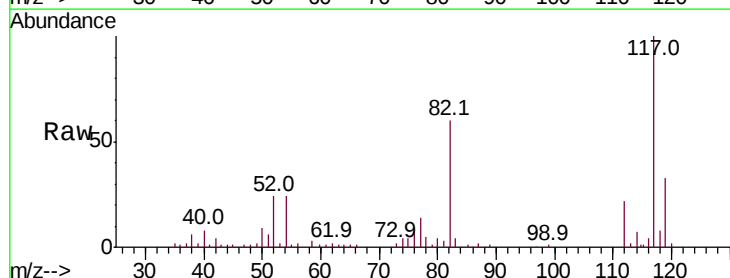
Acq: 18 Sep 2019 9:21

Tgt Ion:112 Resp: 15672

Ion Ratio Lower Upper

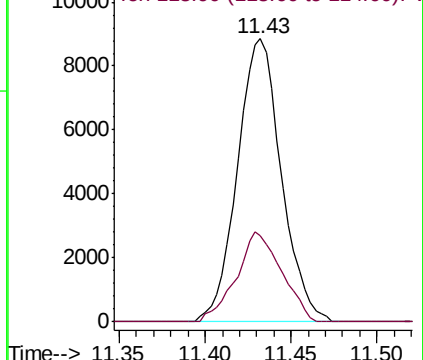
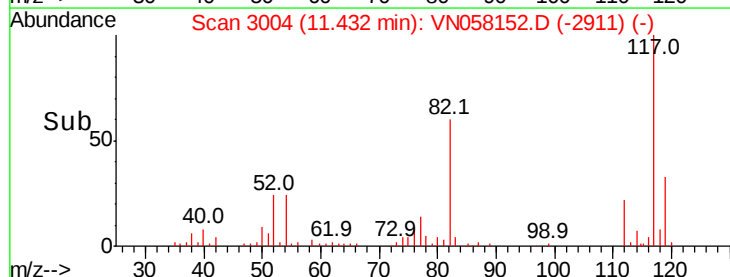
112 100

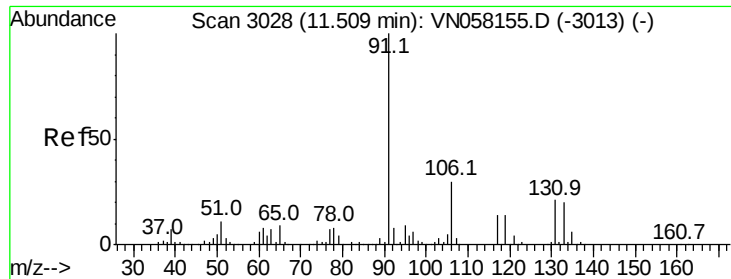
114 30.4 25.1 37.7



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 0.686 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampleId :

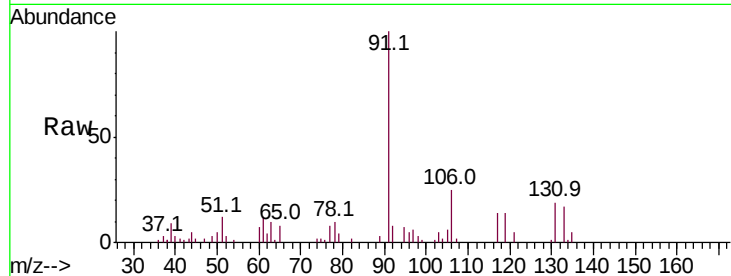
Tot Ion:131 Resp: 4840

Ion Ratio Lower Upper

131 100

133 90.8 47.8 143.3

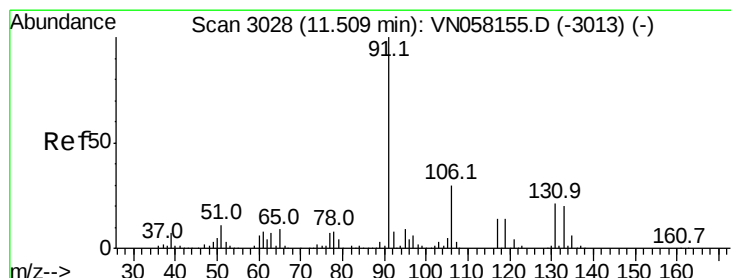
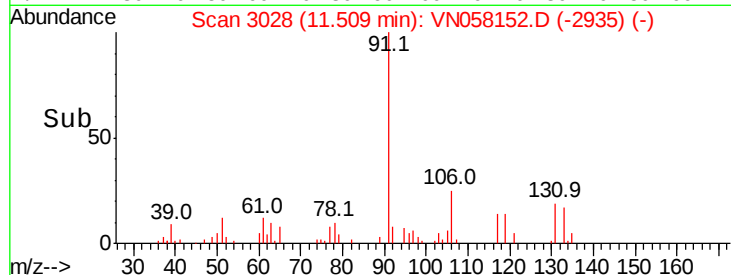
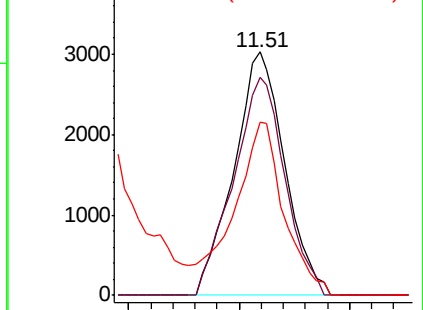
119 0.0 33.1 99.3#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 0.760 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058152.D

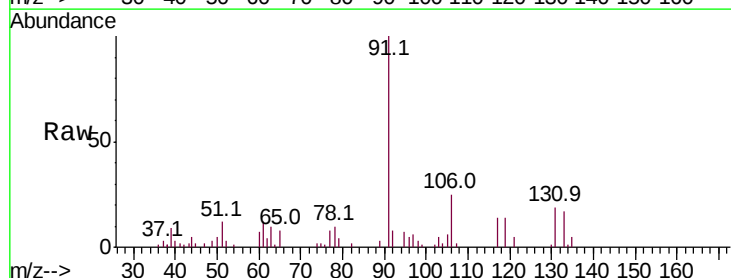
Acq: 18 Sep 2019 9:21

Tgt Ion: 91 Resp: 26963

Ion Ratio Lower Upper

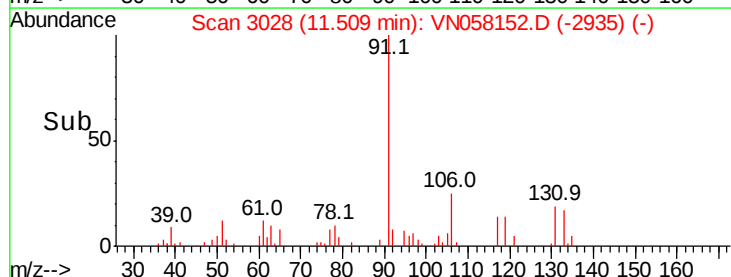
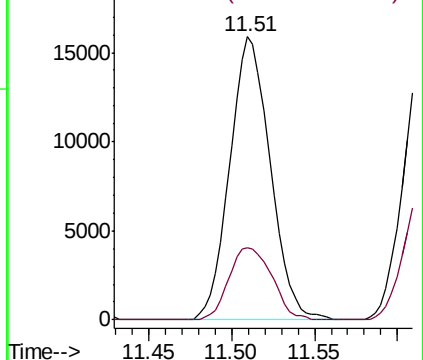
91 100

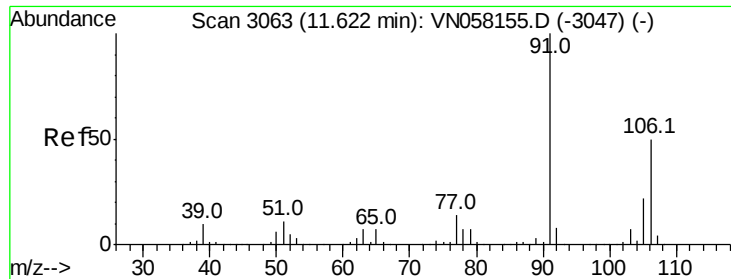
106 25.4 24.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

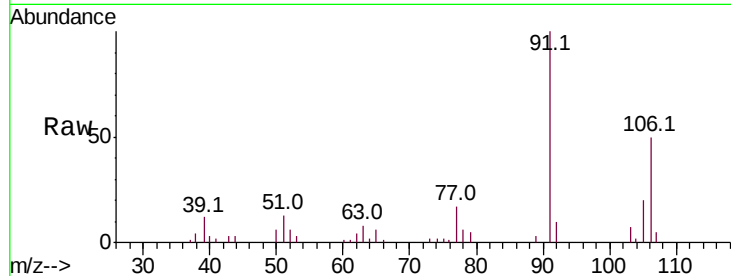




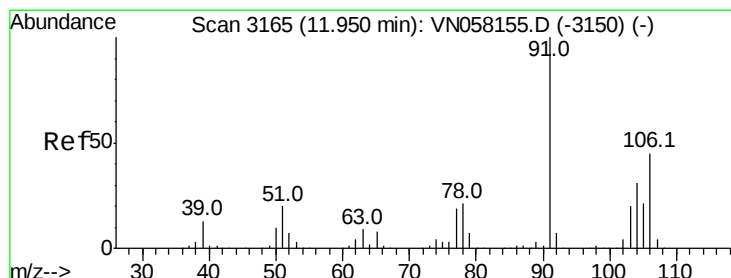
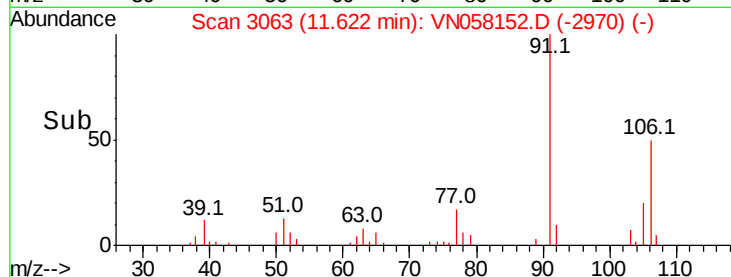
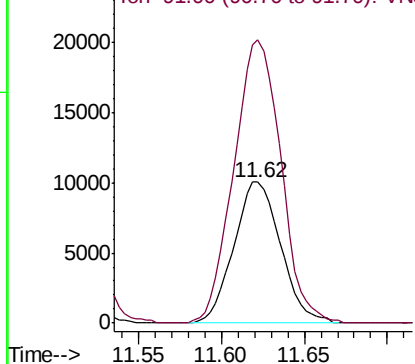
#68  
m/p-Xylenes  
Concen: 1.523 ug/l  
RT: 11.62 min Scan# 3063  
Delta R.T. 0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:106 Resp: 19794  
Ion Ratio Lower Upper  
106 100  
91 202.0 163.6 245.4

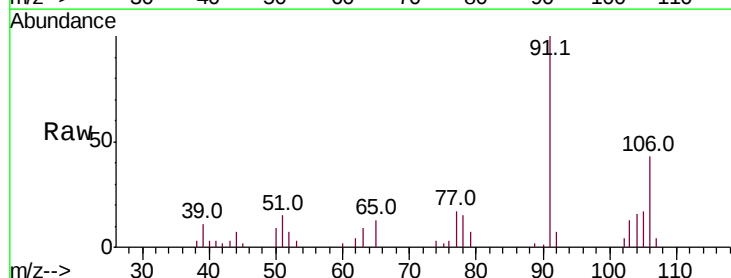


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VN

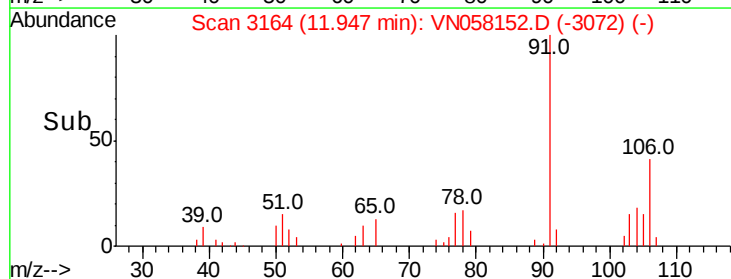
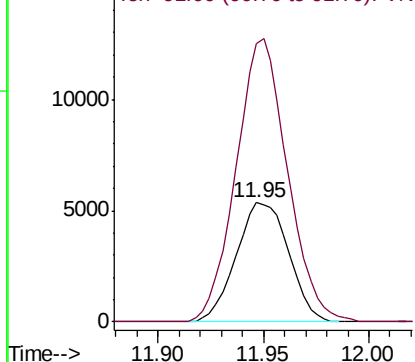


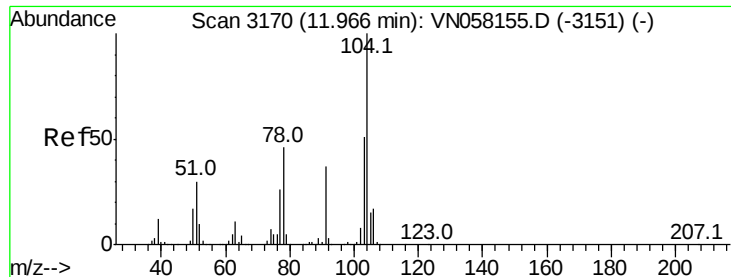
#69  
o-Xylene  
Concen: 0.720 ug/l  
RT: 11.95 min Scan# 3164  
Delta R.T. -0.00 min  
Lab File: VN058152.D  
Acq: 18 Sep 2019 9:21

Tgt Ion:106 Resp: 9269  
Ion Ratio Lower Upper  
106 100  
91 232.1 111.8 335.3



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





#70

Stvrene

Concen: 0.647 ug/l

RT: 11.97 min Scan# 3171

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampled :

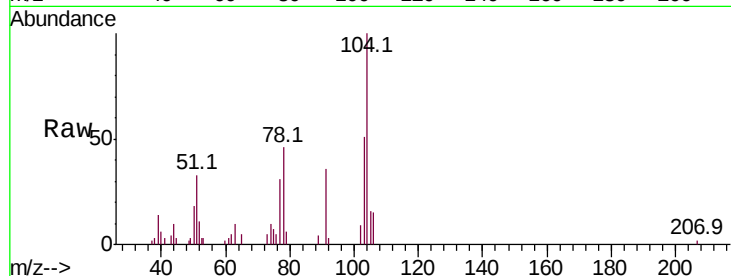
Tot Ion:104 Resp: 14330

Ion Ratio Lower Upper

104 100

78 55.5 41.8 62.8

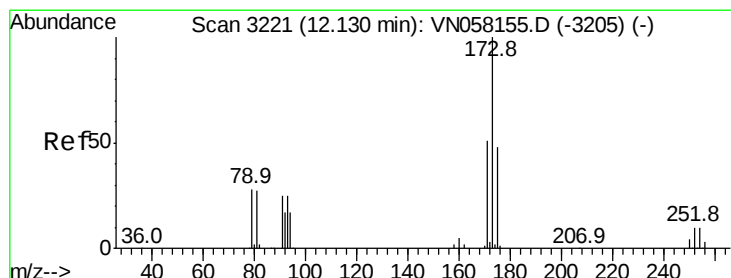
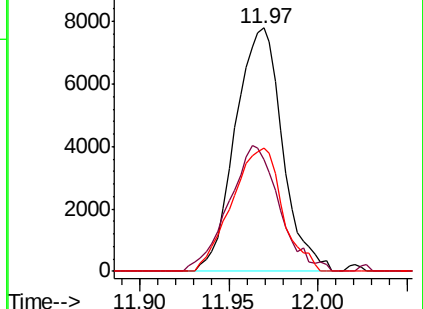
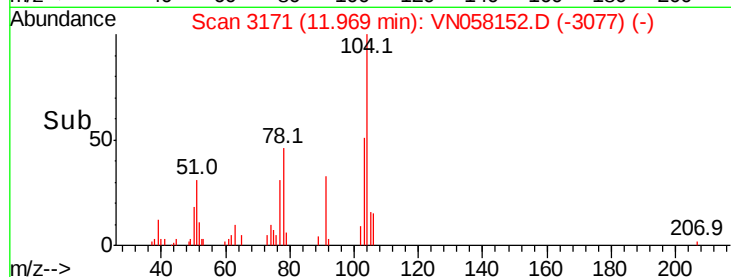
103 54.2 44.2 66.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.549 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

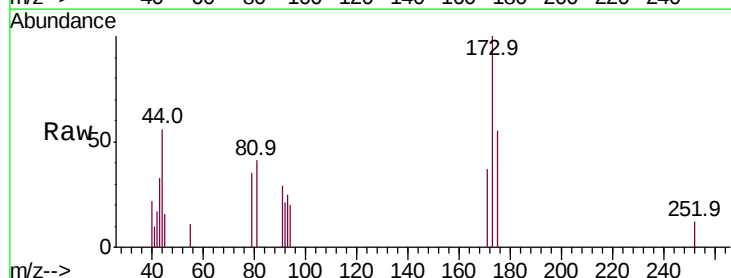
Tgt Ion:173 Resp: 2406

Ion Ratio Lower Upper

173 100

175 51.1 24.2 72.6

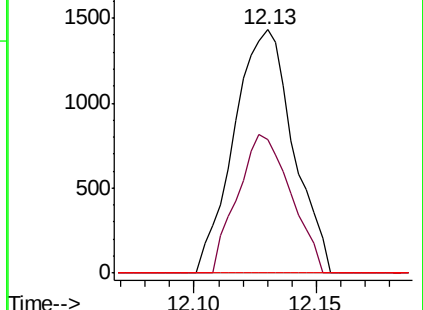
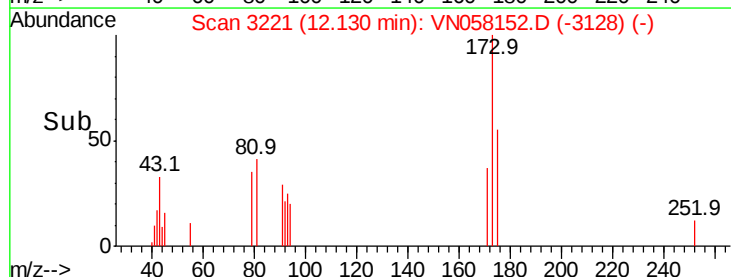
254 0.0 0.1 0.1#

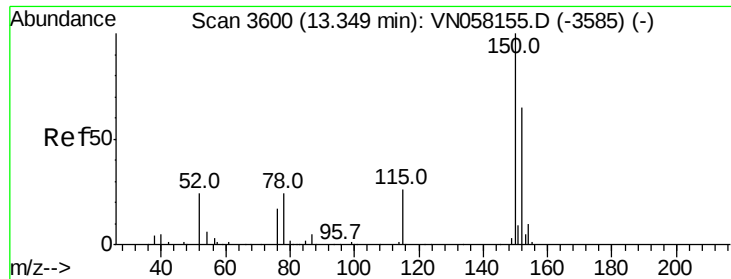


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampleId :

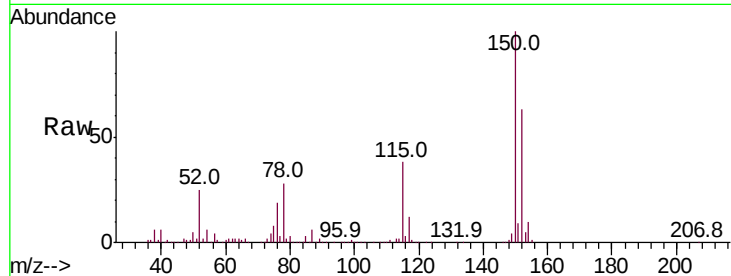
Tot Ion:152 Resp: 371819

Ion Ratio Lower Upper

152 100

115 59.7 30.1 90.3

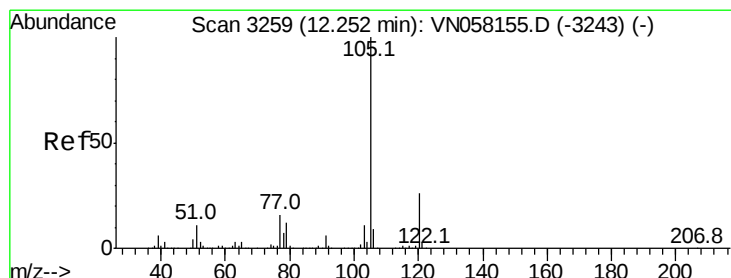
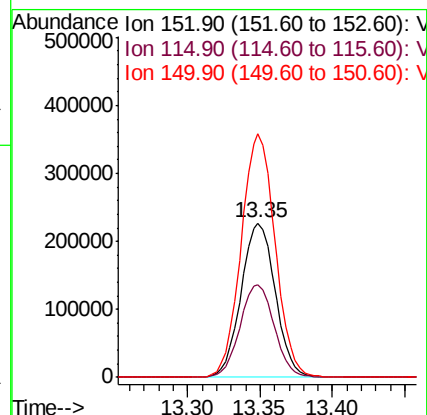
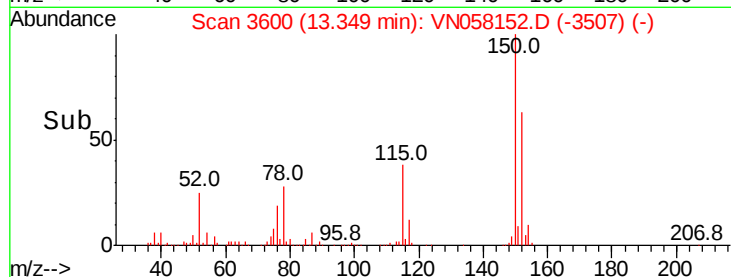
150 156.7 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 0.899 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN058152.D

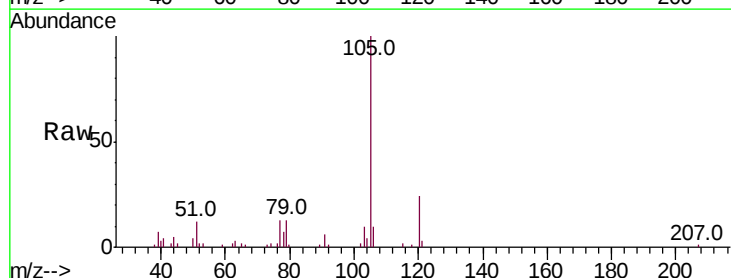
Acq: 18 Sep 2019 9:21

Tgt Ion:105 Resp: 25056

Ion Ratio Lower Upper

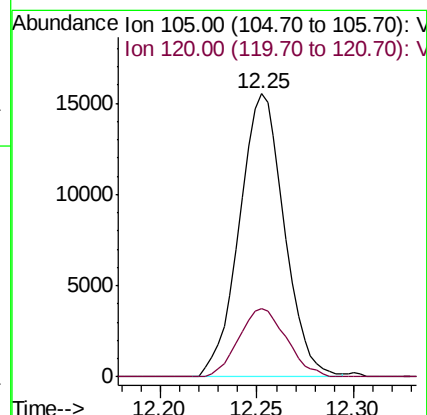
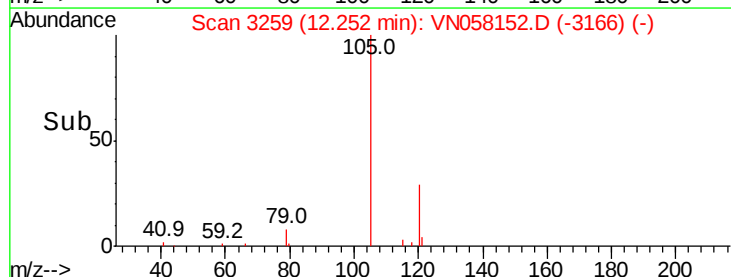
105 100

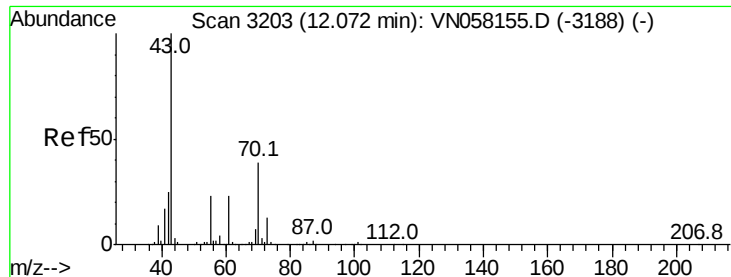
120 25.6 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.658 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 43 Resp: 7934

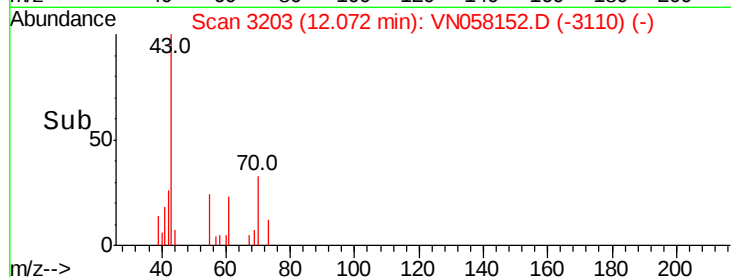
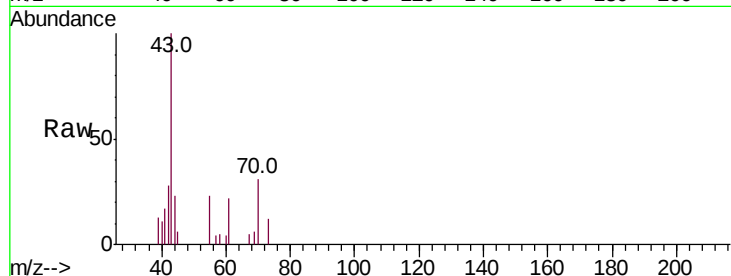
Ion Ratio Lower Upper

43 100

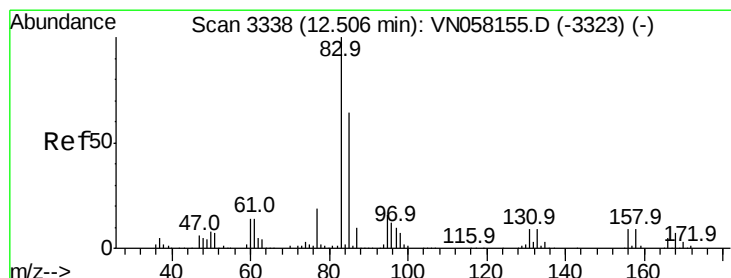
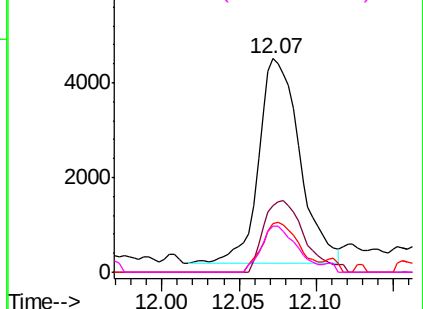
70 35.1 31.0 46.6

55 22.3 18.5 27.7

61 20.9 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VNO  
Ion 70.00 (69.70 to 70.70): VNO  
Ion 55.00 (54.70 to 55.70): VNO  
Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: 0.863 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

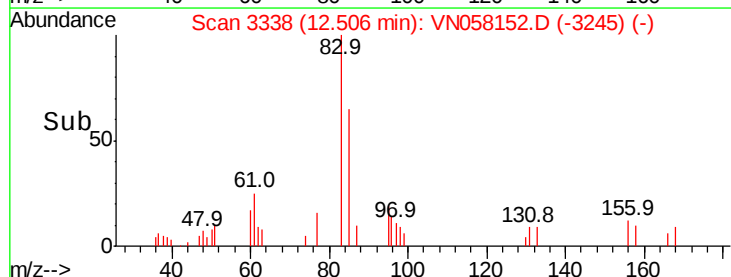
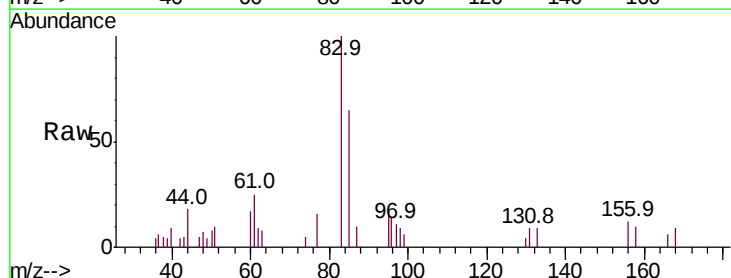
Tgt Ion: 83 Resp: 8089

Ion Ratio Lower Upper

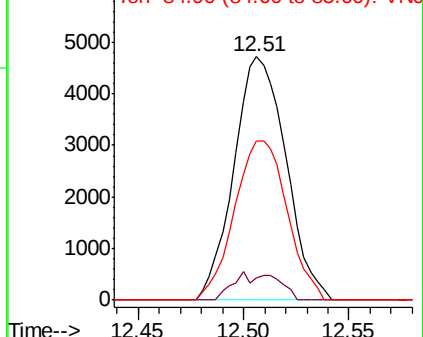
83 100

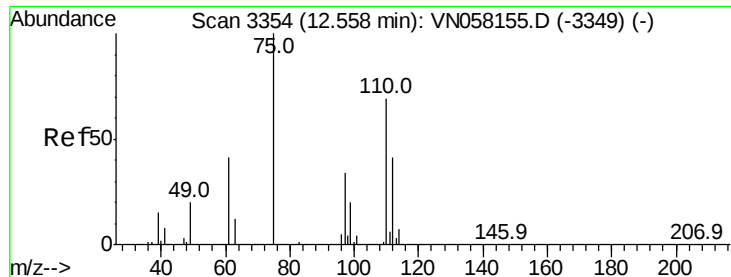
131 4.0 4.8 14.3#

85 66.1 31.9 95.5



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 130.80 (130.50 to 131.50): V  
Ion 84.90 (84.60 to 85.60): VNO

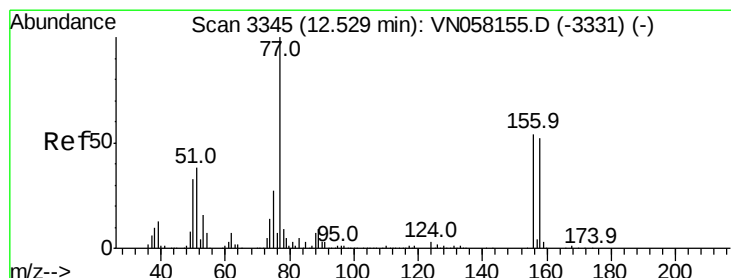
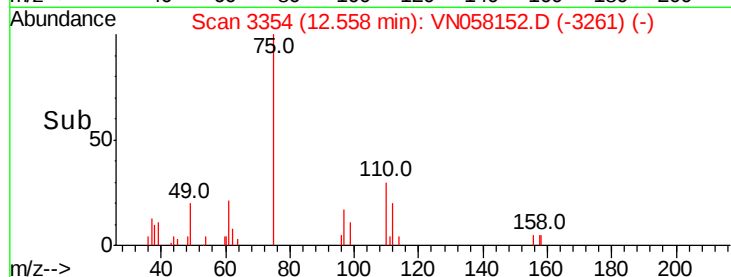
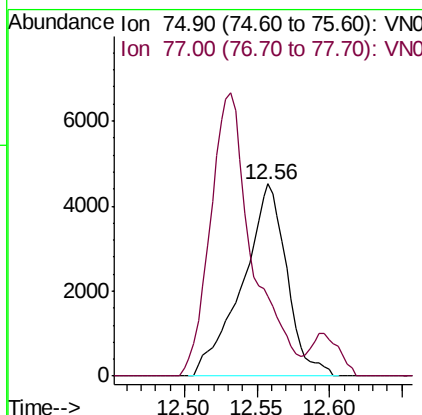
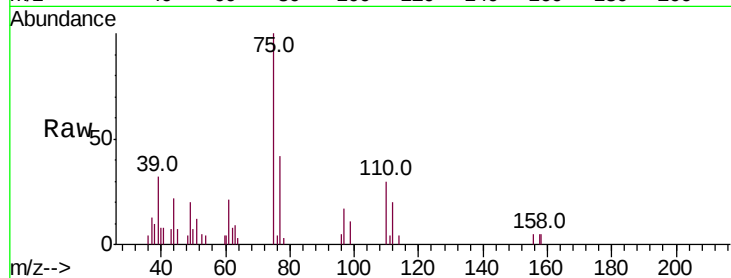




#76  
 1,2,3-Trichloropropane  
 Concen: 1.200 ug/l  
 RT: 12.56 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

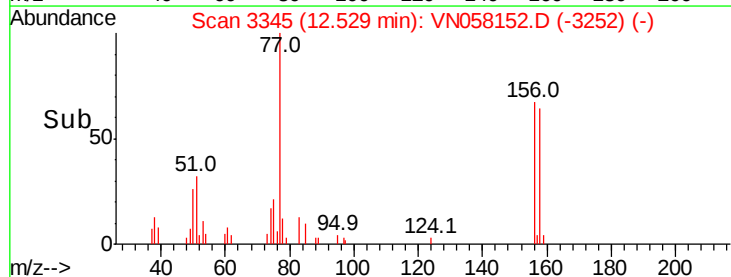
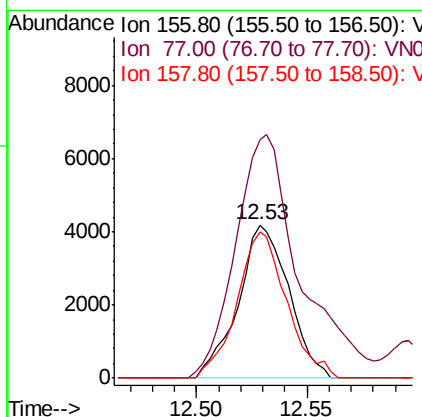
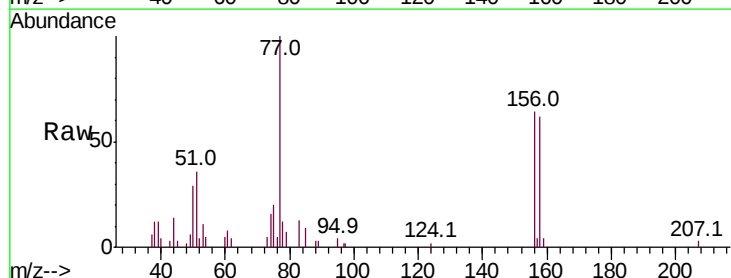
Instrument :  
 MSVOA\_N  
 ClientSampleId :

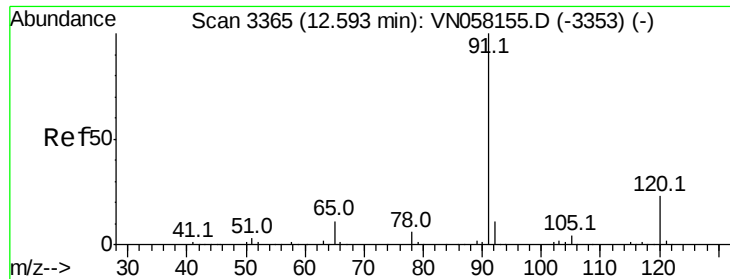
Tot Ion: 75 Resp: 9679  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0



#77  
 Bromobenzene  
 Concen: 0.951 ug/l  
 RT: 12.53 min Scan# 3345  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 156 Resp: 6641  
 Ion Ratio Lower Upper  
 156 100  
 77 202.5 111.7 335.1  
 158 94.2 47.9 143.8





#78

n-propylbenzene

Concen: 0.866 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

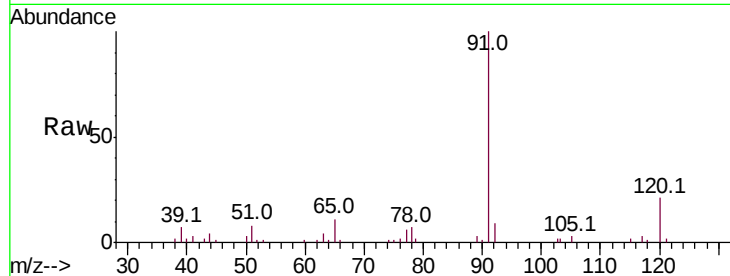
ClientSampleId :

Tot Ion: 91 Resp: 27662

Ion Ratio Lower Upper

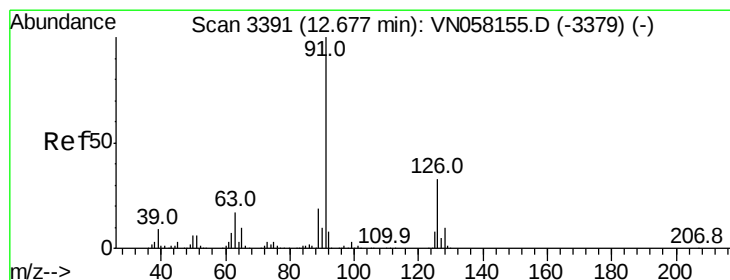
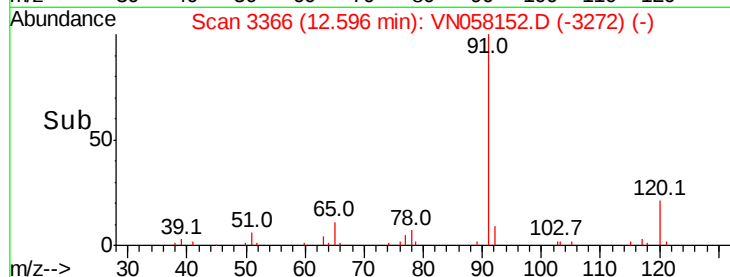
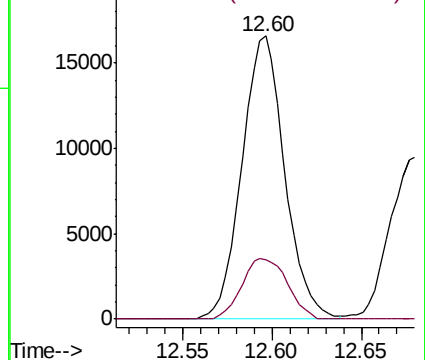
91 100

120 22.8 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.820 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN058152.D

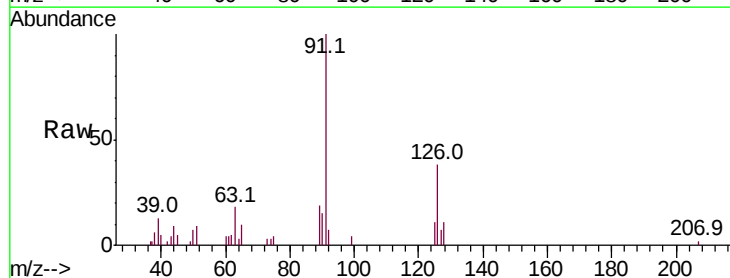
Acq: 18 Sep 2019 9:21

Tgt Ion: 91 Resp: 16596

Ion Ratio Lower Upper

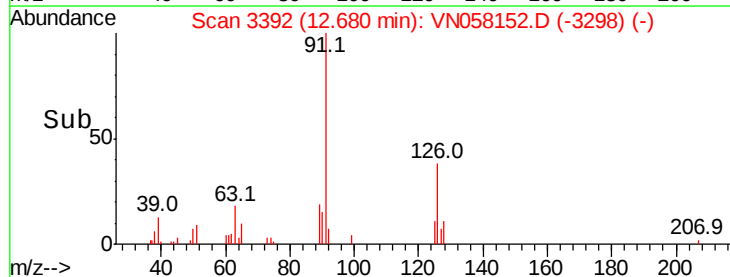
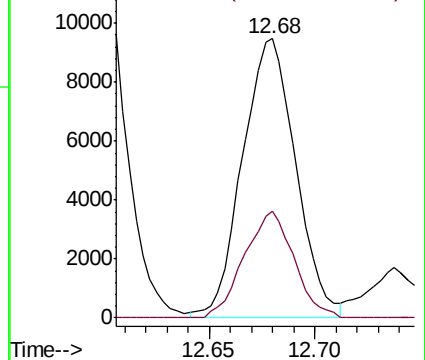
91 100

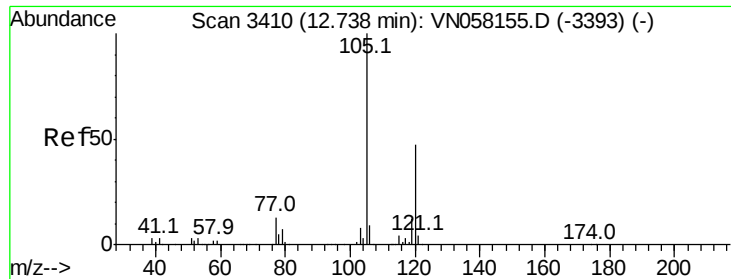
126 35.6 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

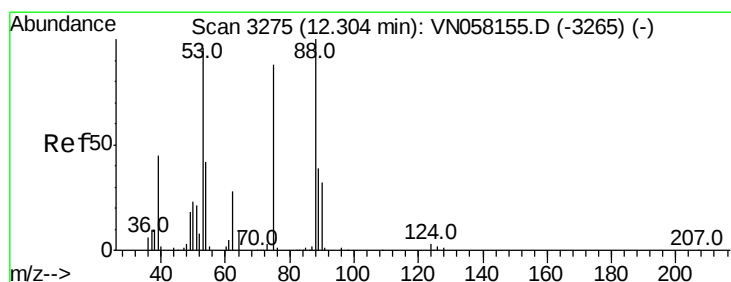
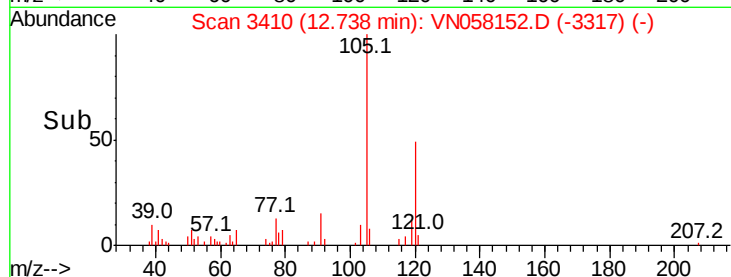
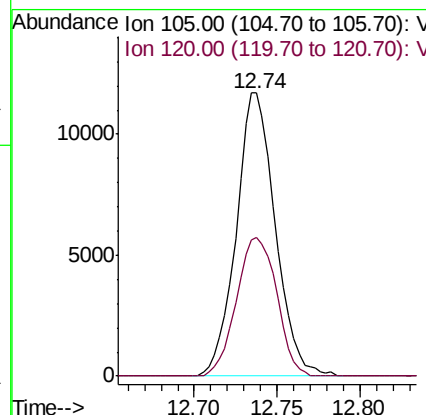
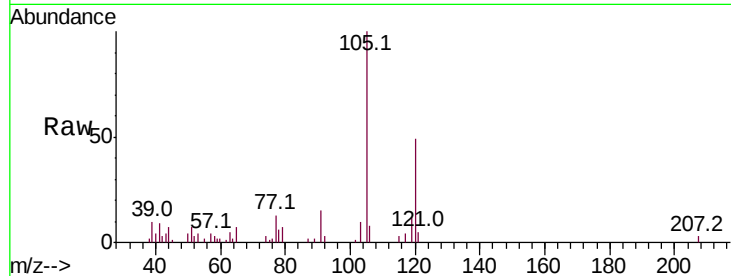




#80  
 1,3,5-Trimethylbenzene  
 Concen: 0.812 ug/l  
 RT: 12.74 min Scan# 3410  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

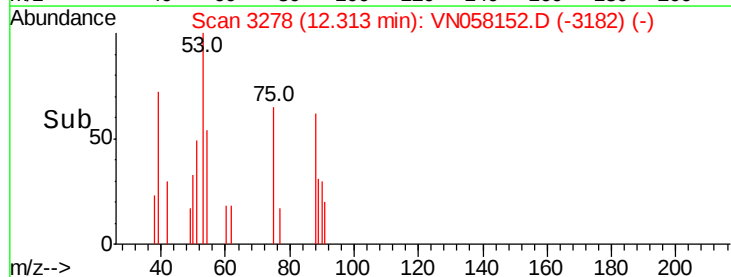
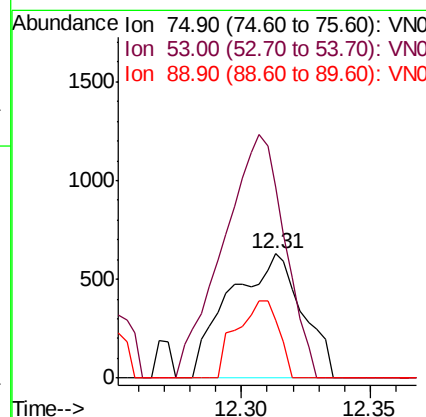
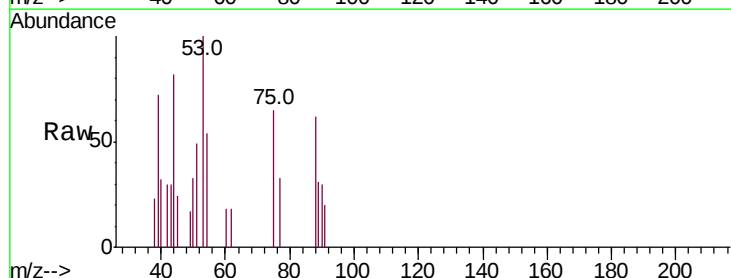
Instrument :  
 MSVOA\_N  
 ClientSampled :

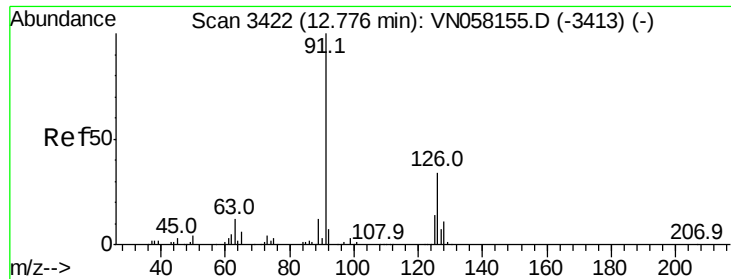
Tot Ion:105 Resp: 19141  
 Ion Ratio Lower Upper  
 105 100  
 120 50.4 23.4 70.0



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 0.540 ug/l  
 RT: 12.31 min Scan# 3278  
 Delta R.T. 0.01 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 75 Resp: 1233  
 Ion Ratio Lower Upper  
 75 100  
 53 166.1 90.1 135.1#  
 89 36.1 36.2 54.2#





#82

4-Chlorotoluene

Concen: 0.849 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

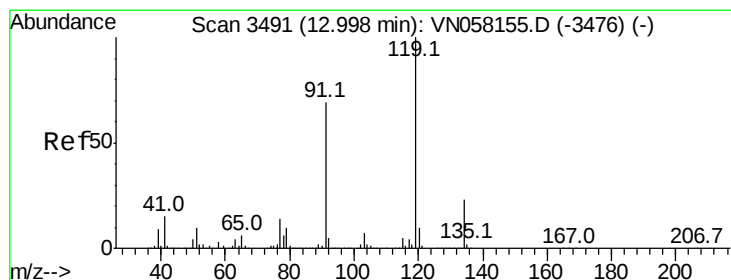
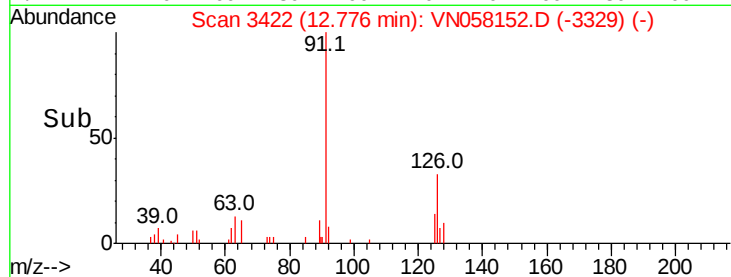
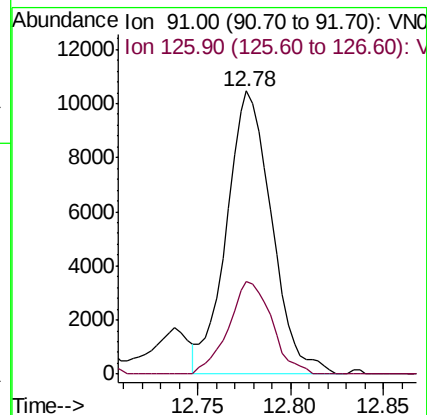
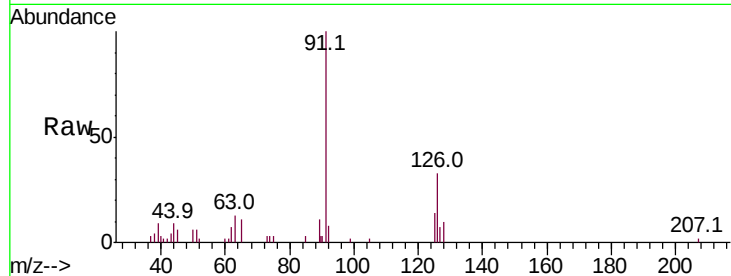
ClientSampled :

Tot Ion: 91 Resp: 17647

Ion Ratio Lower Upper

91 100

126 31.4 15.7 47.1



#83

tert-Butylbenzene

Concen: 0.833 ug/l

RT: 13.00 min Scan# 3491

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

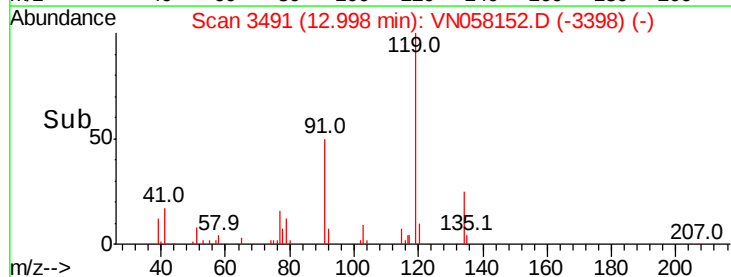
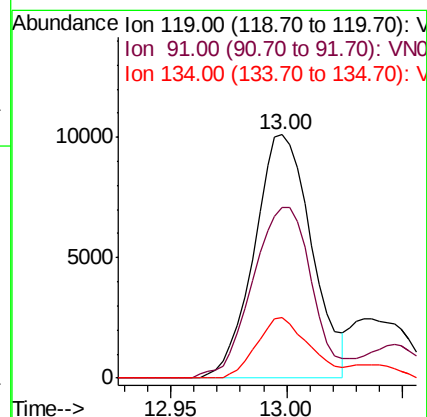
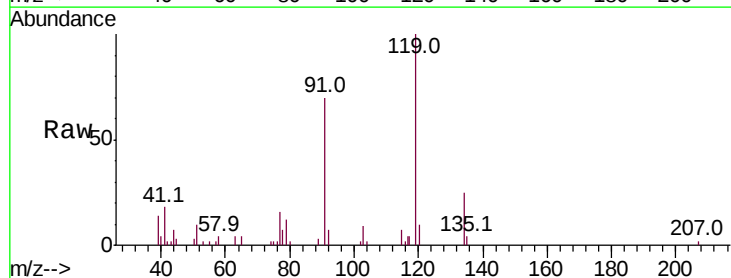
Tgt Ion: 119 Resp: 17446

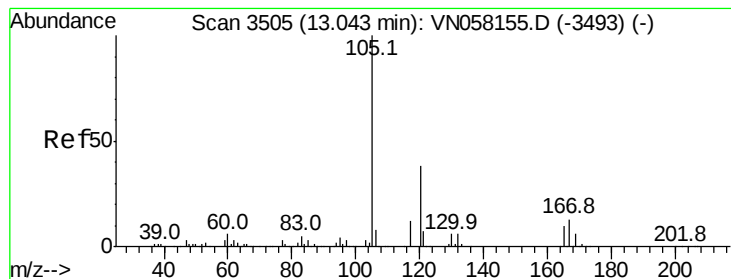
Ion Ratio Lower Upper

119 100

91 72.9 33.8 101.3

134 22.8 11.6 34.8





#84

1,2,4-Trimethylbenzene

Concen: 0.802 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

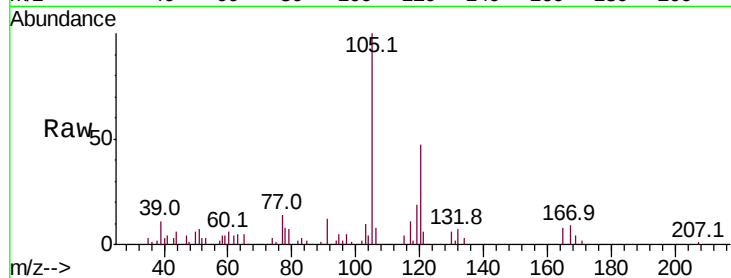
ClientSampled :

Tot Ion:105 Resp: 19169

Ion Ratio Lower Upper

105 100

120 45.1 22.1 66.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.05

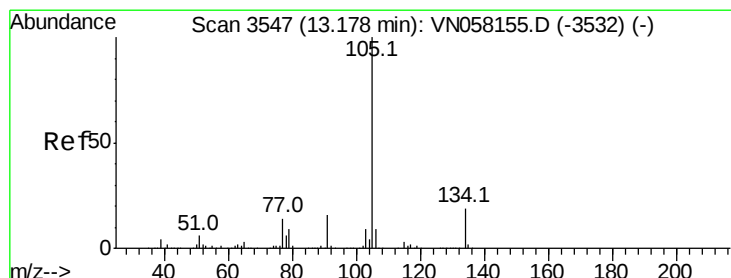
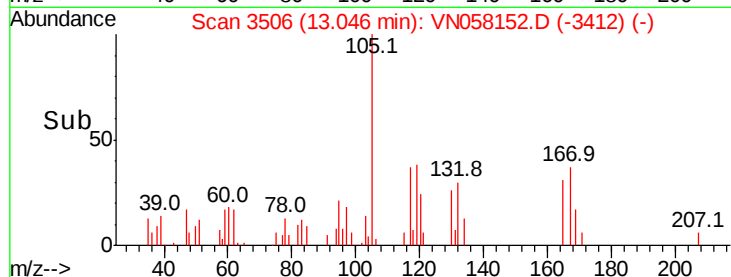
10000

5000

0

Time-->

13.00 13.05 13.10



#85

sec-Butylbenzene

Concen: 0.835 ug/l

RT: 13.18 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN058152.D

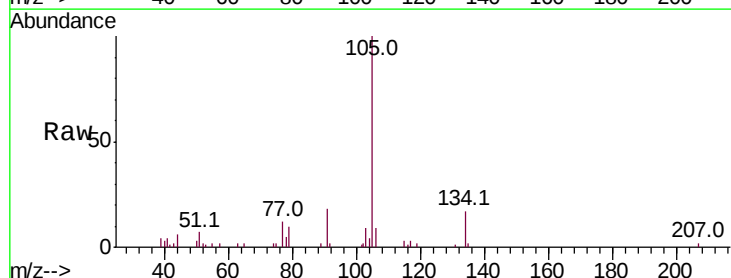
Acq: 18 Sep 2019 9:21

Tgt Ion:105 Resp: 23157

Ion Ratio Lower Upper

105 100

134 18.3 9.5 28.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.18

15000

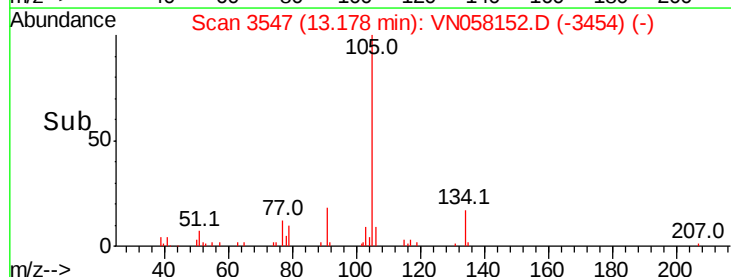
10000

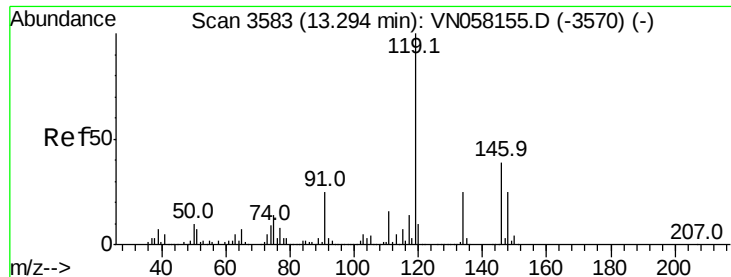
5000

0

Time-->

13.10 13.15 13.20

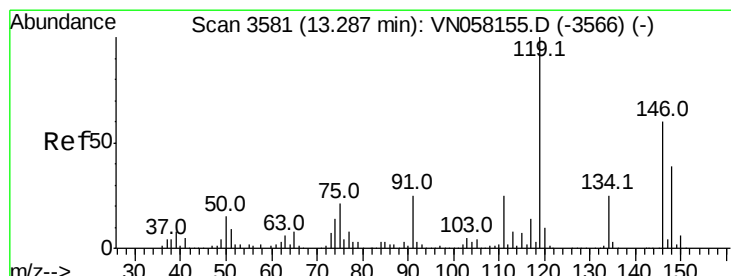
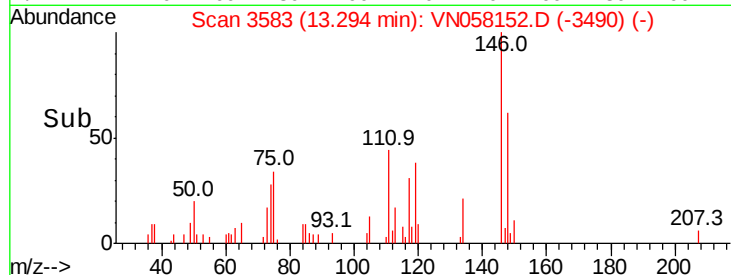
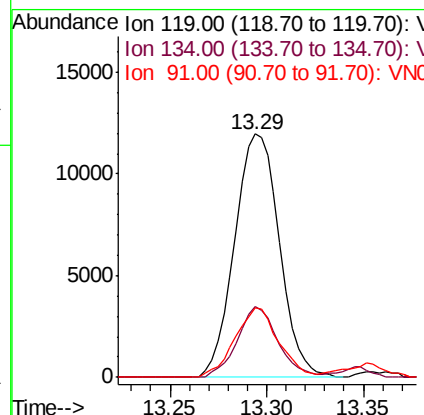
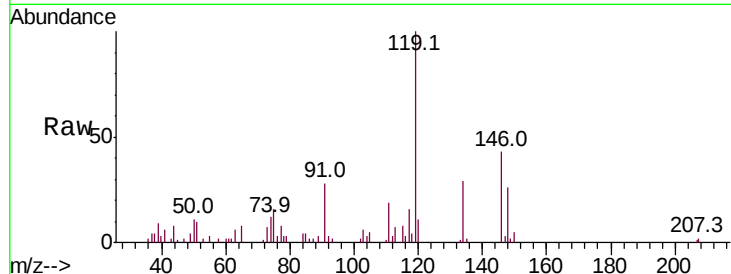




#86  
 p-Isopropyltoluene  
 Concen: 0.789 ug/l  
 RT: 13.29 min Scan# 3583  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

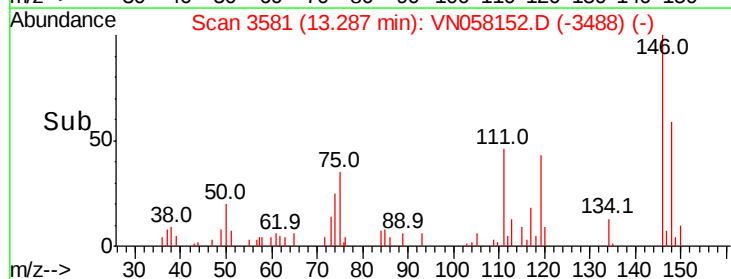
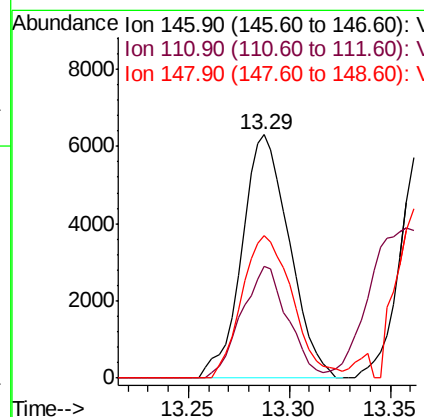
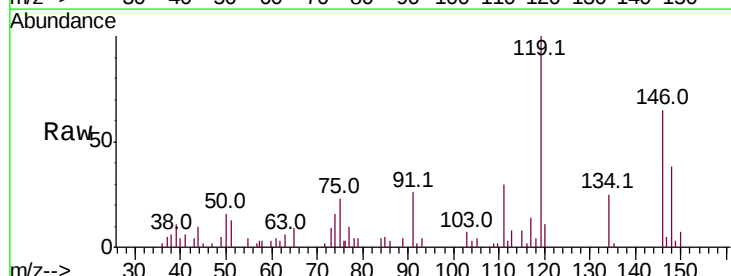
Instrument :  
 MSVOA\_N  
 ClientSampleId :

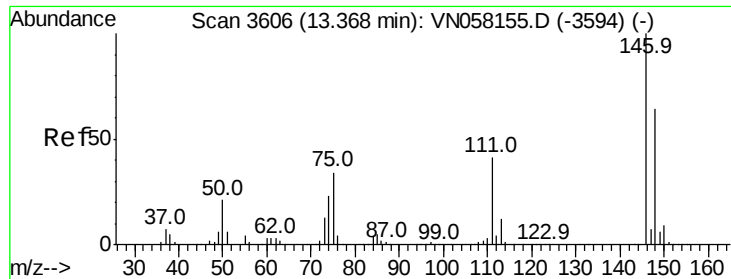
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.4  | 12.7  | 38.0  |
| 91      | 27.9  | 12.3  | 36.8  |



#87  
 1,3-Dichlorobenzene  
 Concen: 0.813 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.9  | 20.9  | 62.8  |
| 148     | 62.9  | 32.0  | 96.2  |

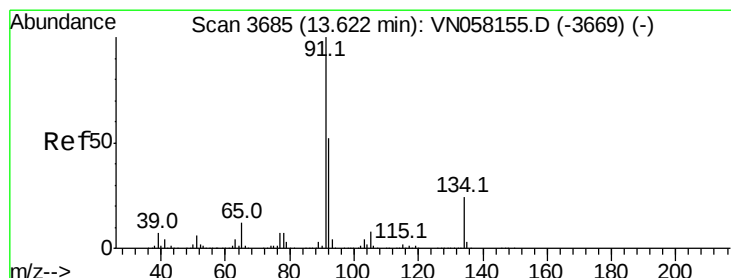
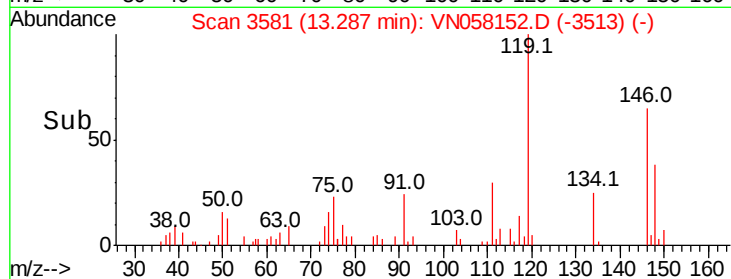
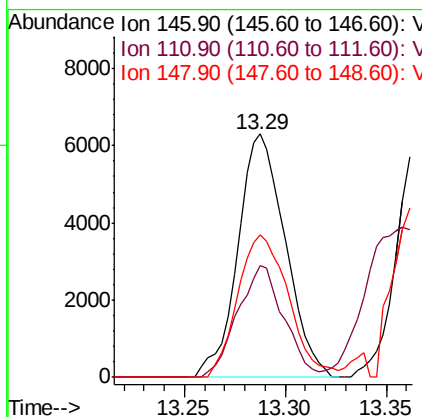
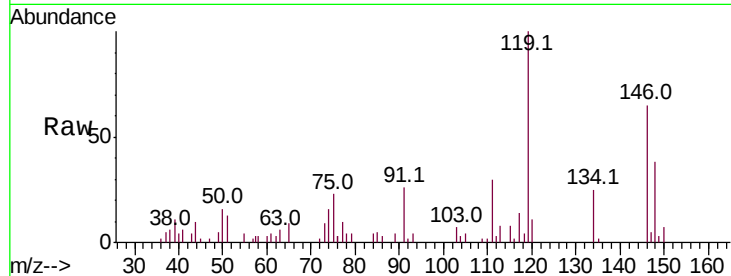




#88  
 1,4-Dichlorobenzene  
 Concen: 0.798 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. -0.08 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

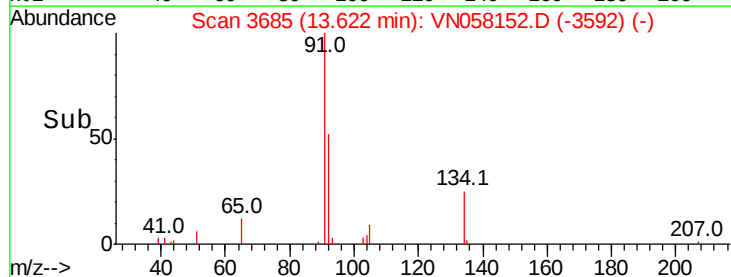
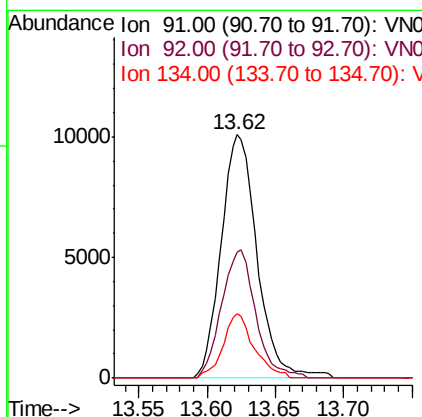
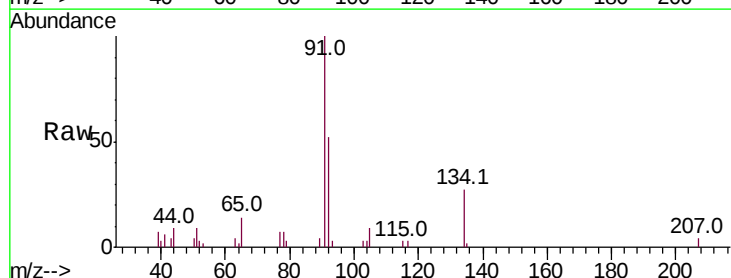
Instrument :  
 MSVOA\_N  
 ClientSampled :

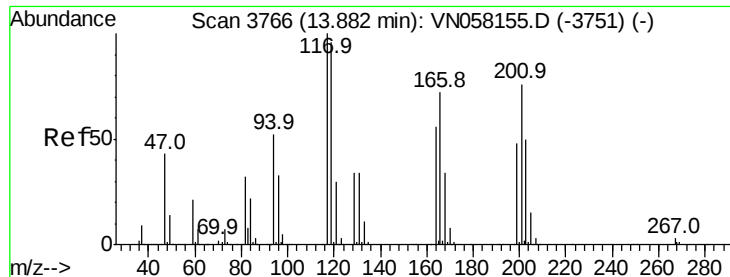
Tot Ion:146 Resp: 10374  
 Ion Ratio Lower Upper  
 146 100  
 111 44.9 20.5 61.5  
 148 62.9 31.9 95.5



#89  
 n-Butylbenzene  
 Concen: 0.798 ug/l  
 RT: 13.62 min Scan# 3685  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 91 Resp: 18444  
 Ion Ratio Lower Upper  
 91 100  
 92 49.9 25.7 77.0  
 134 22.9 11.8 35.4





#90

Hexachloroethane

Concen: 0.701 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. -0.01 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

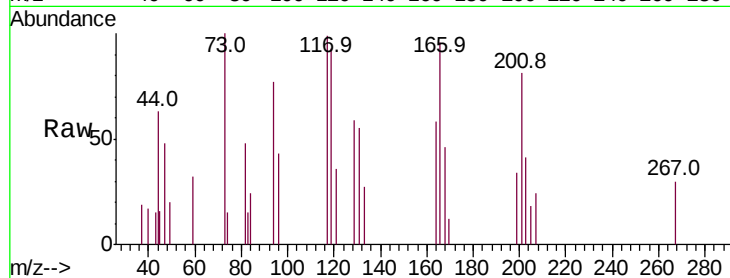
ClientSampleId :

Tot Ion:117 Resp: 2556

Ion Ratio Lower Upper

117 100

201 70.7 37.5 112.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.88

1500

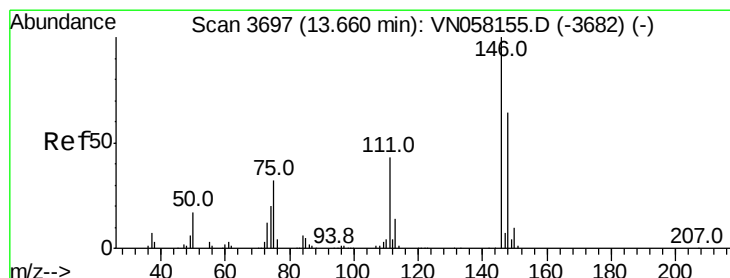
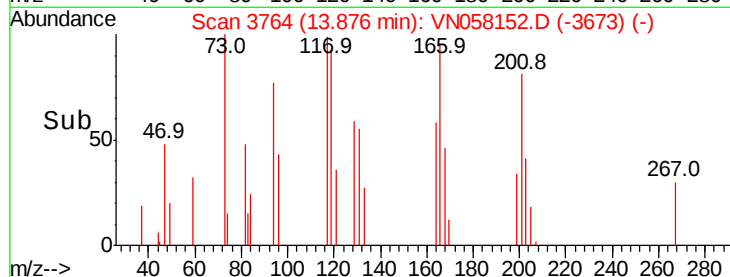
1000

500

0

13.85 13.90

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.820 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

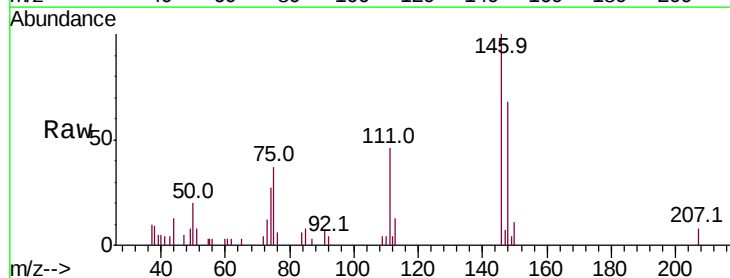
Tgt Ion:146 Resp: 10487

Ion Ratio Lower Upper

146 100

111 44.9 21.1 63.1

148 64.2 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

8000

6000

4000

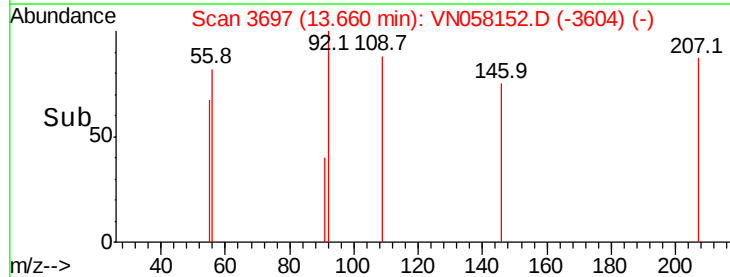
2000

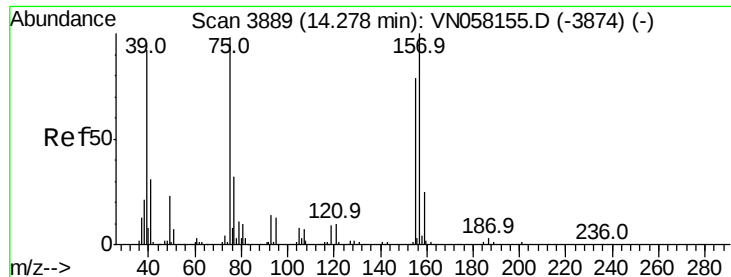
0

13.66

13.60 13.65 13.70

Time-->

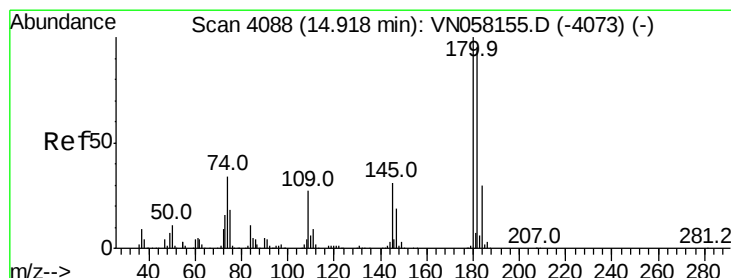
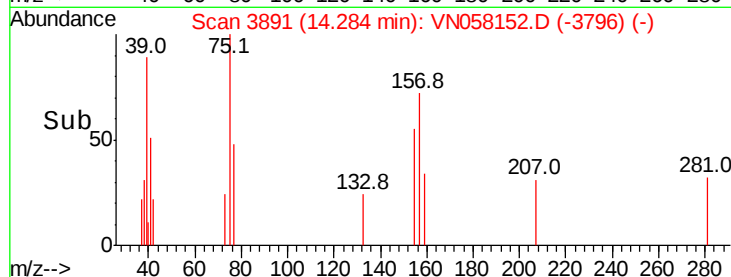
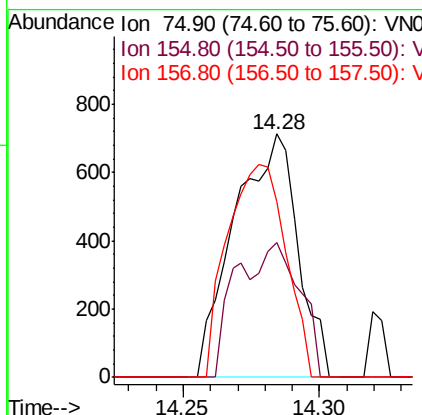
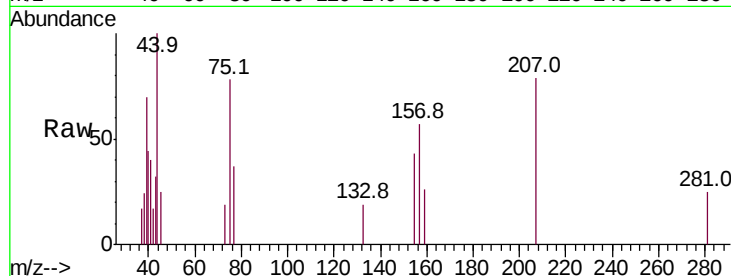




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.743 ug/l  
 RT: 14.28 min Scan# 3891  
 Delta R.T. 0.01 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

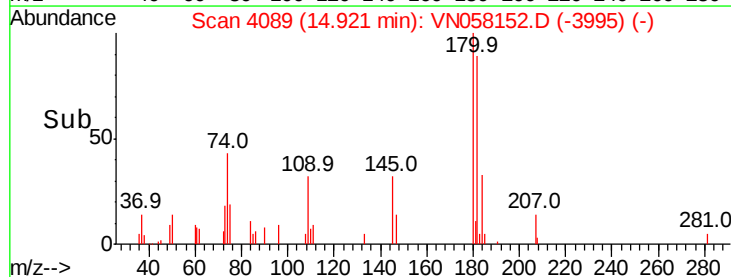
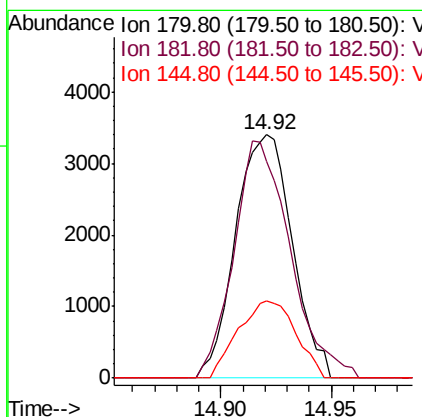
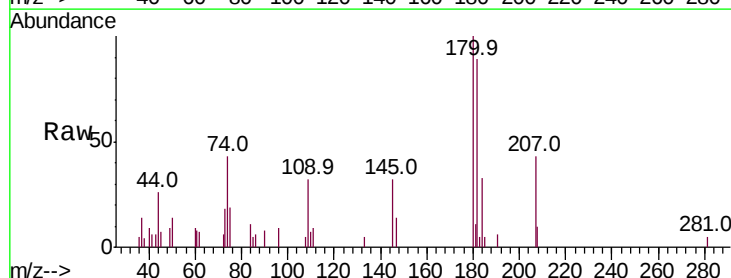
Instrument :  
 MSVOA\_N  
 ClientSampled :

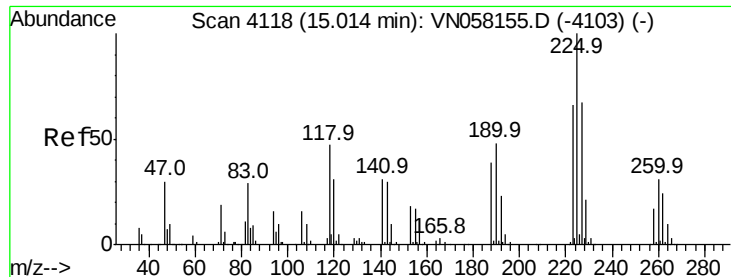
Tot Ion: 75 Resp: 1155  
 Ion Ratio Lower Upper  
 75 100  
 155 30.6 38.3 114.8#  
 157 0.0 48.0 144.0#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.716 ug/l  
 RT: 14.92 min Scan# 4089  
 Delta R.T. 0.00 min  
 Lab File: VN058152.D  
 Acq: 18 Sep 2019 9:21

Tgt Ion: 180 Resp: 6046  
 Ion Ratio Lower Upper  
 180 100  
 182 97.3 47.8 143.3  
 145 32.1 15.4 46.4





#94

Hexachlorobutadiene

Concen: 0.845 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampleId :

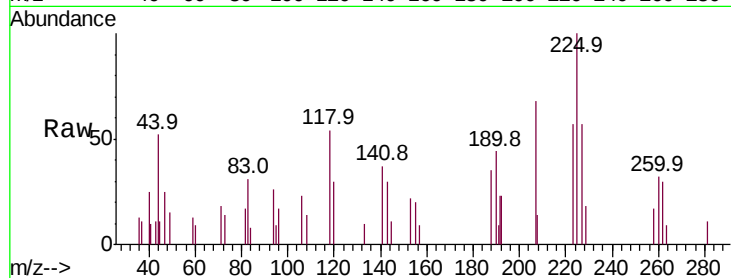
Tot Ion:225 Resp: 3061

Ion Ratio Lower Upper

225 100

223 68.4 32.6 97.7

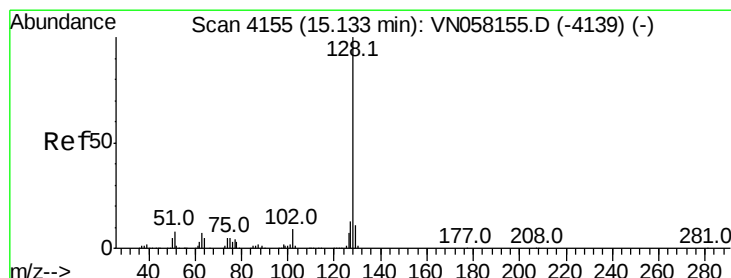
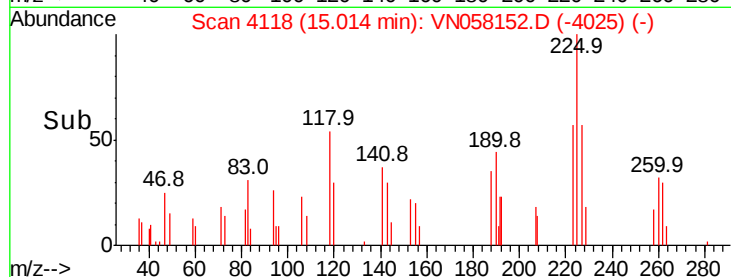
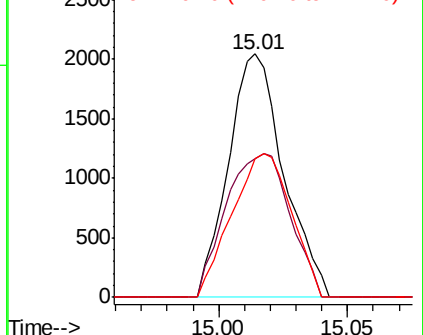
227 63.7 33.0 99.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.619 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

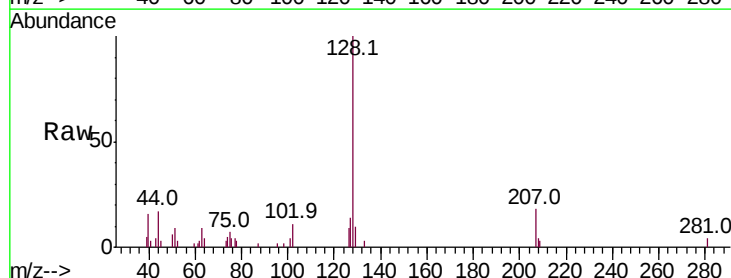
Tgt Ion:128 Resp: 14966

Ion Ratio Lower Upper

128 100

127 13.5 10.2 15.2

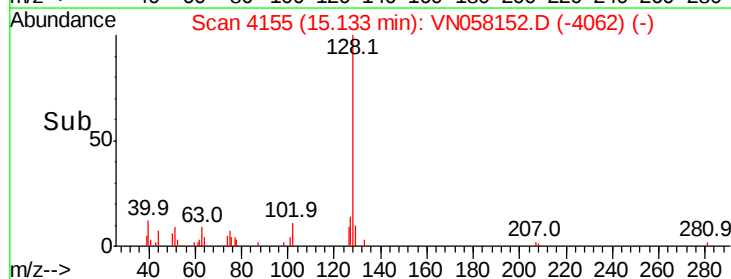
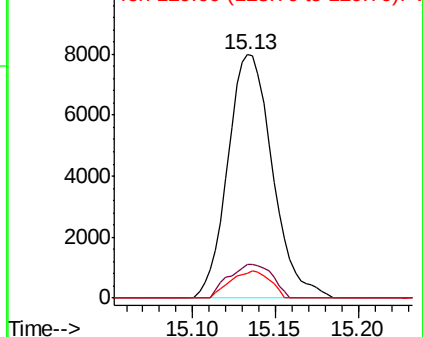
129 9.9 8.6 12.8

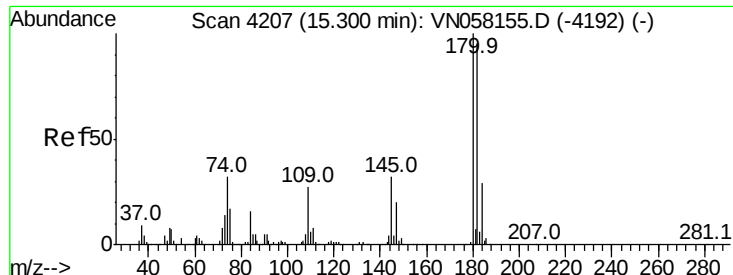


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.680 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058152.D

Acq: 18 Sep 2019 9:21

Instrument :

MSVOA\_N

ClientSampleId :

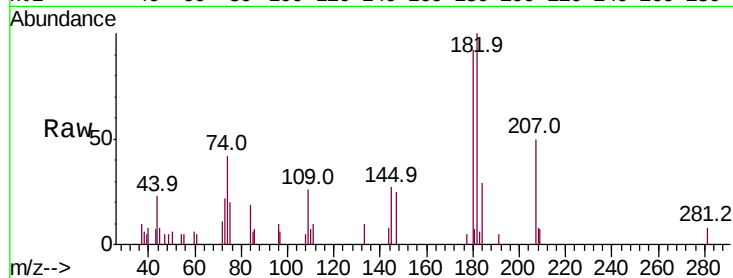
Tot Ion:180 Resp: 5615

Ion Ratio Lower Upper

180 100

182 99.6 47.4 142.2

145 30.6 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

