

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101219\  
 Data File : VN058690.D  
 Acq On : 11 Oct 2019 10:03  
 Operator : JC/SP  
 Sample : VN1012WBS01  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 11 17:28:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.18  | 128  | 82260    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.57  | 114  | 449849   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 412781   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 8.01   | 65    | 213127   | 30.53    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 101.77% |
| 60) 4-Bromofluorobenzene  | 12.40  | 95    | 214804   | 29.75    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 99.17%  |
| 63) Toluene-d8            | 10.09  | 98    | 592300   | 30.39    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 101.30% |

## Target Compounds

|                               |      |     |        |         | Ovalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.83 | 85  | 95608  | 21.451  | ug/l 99    |
| 3) Chloromethane              | 2.04 | 50  | 123440 | 20.734  | ug/l 99    |
| 4) Vinyl Chloride             | 2.17 | 62  | 122867 | 19.968  | ug/l 99    |
| 5) Bromomethane               | 2.55 | 94  | 77664  | 20.443  | ug/l 97    |
| 6) Chloroethane               | 2.68 | 64  | 80870  | 20.909  | ug/l 96    |
| 7) Trichlorofluoromethane     | 3.00 | 101 | 163909 | 21.642  | ug/l 99    |
| 8) Diethyl Ether              | 3.39 | 74  | 59434  | 20.576  | ug/l 98    |
| 9) 1,1,2-Trichlorotrifluoroet | 3.74 | 101 | 93844  | 21.415  | ug/l 99    |
| 10) 1,1-Dichloroethene        | 3.72 | 96  | 87797  | 20.399  | ug/l 99    |
| 11) Methyl Iodide             | 3.93 | 142 | 122220 | 20.390  | ug/l 97    |
| 12) Methyl Acetate            | 4.30 | 43  | 139552 | 20.266  | ug/l 98    |
| 13) Acrolein                  | 3.59 | 56  | 71129  | 93.485  | ug/l 96    |
| 14) Acrylonitrile             | 4.96 | 53  | 278157 | 102.516 | ug/l 100   |
| 15) Acetone                   | 3.79 | 58  | 88503  | 109.886 | ug/l 98    |
| 16) Carbon Disulfide          | 4.03 | 76  | 251726 | 20.052  | ug/l 99    |
| 17) Allyl chloride            | 4.30 | 41  | 174389 | 20.357  | ug/l 99    |
| 18) Methylene Chloride        | 4.53 | 84  | 105731 | 20.287  | ug/l 97    |
| 19) trans-1,2-Dichloroethene  | 5.02 | 96  | 99354  | 21.204  | ug/l 88    |
| 20) Diisopropyl ether         | 5.93 | 45  | 362460 | 20.767  | ug/l 97    |
| 21) 1,1-Dichloroethane        | 5.82 | 63  | 205191 | 21.230  | ug/l 99    |
| 22) cis-1,2-Dichloroethene    | 6.81 | 96  | 117422 | 21.019  | ug/l 100   |
| 23) tert-Butyl Alcohol        | 4.76 | 59  | 111123 | 100.128 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 5.02 | 73  | 335412 | 20.889  | ug/l 100   |
| 25) Chloroform                | 7.36 | 83  | 200892 | 20.841  | ug/l 98    |
| 26) Cyclohexane               | 7.64 | 56  | 171815 | 20.254  | ug/l # 98  |
| 29) 1,1-Dichloropropene       | 7.78 | 75  | 149804 | 21.155  | ug/l 100   |
| 30) 2-Butanone                | 6.81 | 43  | 423007 | 105.709 | ug/l 99    |
| 31) 2,2-Dichloropropane       | 6.81 | 77  | 182001 | 21.806  | ug/l 98    |
| 32) 1,1,1-Trichloroethane     | 7.55 | 97  | 176832 | 21.591  | ug/l 99    |
| 33) Carbon Tetrachloride      | 7.75 | 117 | 151884 | 21.425  | ug/l 97    |
| 34) Benzene                   | 8.02 | 78  | 440925 | 21.150  | ug/l 98    |
| 35) Methacrylonitrile         | 7.19 | 41  | 242245 | 68.527  | ug/l # 66  |
| 36) 1,2-Dichloroethane        | 8.11 | 62  | 173550 | 21.773  | ug/l 98    |
| 37) Trichloroethene           | 8.82 | 130 | 109998 | 21.477  | ug/l 99    |
| 38) Methylcyclohexane         | 9.07 | 83  | 167799 | 20.438  | ug/l 99    |
| 39) 1,2-Dichloropropane       | 9.11 | 63  | 121903 | 21.397  | ug/l 99    |
| 40) Dibromomethane            | 9.20 | 93  | 77065  | 21.427  | ug/l 99    |

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 MSVOA\_N  
 ClientSampleId :

Quant Time: Oct 11 17:28:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Oct 11 04:26:47 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 41) Bromodichloromethane       | 9.39  | 83   | 158060   | 21.512  | ug/l   | 99       |
| 42) Vinyl Acetate              | 5.87  | 43   | 1538993  | 109.814 | ug/l   | 99       |
| 43) Ethyl Acetate              | 6.91  | 43   | 163320   | 20.794  | ug/l   | 98       |
| 44) Isopropyl Acetate          | 8.15  | 43   | 268088   | 21.072  | ug/l # | 88       |
| 45) 1,4-Dioxane                | 9.19  | 88   | 39802    | 407.429 | ug/l   | 98       |
| 46) Methyl methacrylate        | 9.19  | 41   | 120843   | 20.690  | ug/l   | 96       |
| 47) n-amyl Acetate             | 12.07 | 43   | 227839   | 20.202  | ug/l   | 100      |
| 48) t-1,3-Dichloropropene      | 10.38 | 75   | 179738   | 21.093  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene    | 9.83  | 75   | 188421   | 21.057  | ug/l   | 97       |
| 50) 1,1,2-Trichloroethane      | 10.56 | 97   | 110474   | 21.517  | ug/l   | 98       |
| 51) Ethyl methacrylate         | 10.43 | 69   | 167682   | 20.424  | ug/l   | 99       |
| 52) 1,3-Dichloropropane        | 10.71 | 76   | 192506   | 21.053  | ug/l   | 99       |
| 53) Dibromochloromethane       | 10.90 | 129  | 116017   | 21.055  | ug/l   | 99       |
| 54) 1,2-Dibromoethane          | 11.00 | 107  | 111825   | 21.013  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 9.69  | 63   | 443227   | 108.532 | ug/l   | 100      |
| 56) Bromoform                  | 12.13 | 173  | 79196    | 20.632  | ug/l   | 100      |
| 58) 4-Methyl-2-Pentanone       | 9.98  | 43   | 836255   | 111.053 | ug/l   | 100      |
| 59) 2-Hexanone                 | 10.75 | 43   | 641832   | 108.721 | ug/l   | 100      |
| 61) Tetrachloroethene          | 10.63 | 164  | 93589    | 20.981  | ug/l   | 98       |
| 62) Toluene                    | 10.15 | 91   | 476187   | 21.446  | ug/l   | 99       |
| 64) Chlorobenzene              | 11.43 | 112  | 287057   | 21.146  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 108353   | 21.287  | ug/l   | 97       |
| 66) Ethyl Benzene              | 11.51 | 91   | 520670   | 21.177  | ug/l   | 100      |
| 67) m/p-Xylenes                | 11.62 | 106  | 383262   | 41.725  | ug/l   | 97       |
| 68) o-Xylene                   | 11.95 | 106  | 186571   | 20.952  | ug/l   | 100      |
| 69) Styrene                    | 11.97 | 104  | 302835   | 20.586  | ug/l   | 99       |
| 70) Isopropylbenzene           | 12.25 | 105  | 504800   | 20.997  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane  | 12.51 | 83   | 169670   | 20.964  | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane     | 12.56 | 75   | 226151   | 30.837  | ug/l   | 60       |
| 73) Bromobenzene               | 12.53 | 156  | 120874   | 20.699  | ug/l   | 99       |
| 74) n-propylbenzene            | 12.59 | 91   | 599397   | 21.300  | ug/l   | 100      |
| 75) 2-Chlorotoluene            | 12.68 | 91   | 353873   | 20.901  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene     | 12.74 | 105  | 434347   | 21.094  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene    | 12.30 | 75   | 56813    | 20.335  | ug/l   | 95       |
| 78) 4-Chlorotoluene            | 12.78 | 91   | 363858   | 20.851  | ug/l   | 97       |
| 79) tert-butylbenzene          | 13.00 | 119  | 366200   | 20.816  | ug/l   | 100      |
| 80) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 436539   | 21.335  | ug/l   | 99       |
| 81) sec-Butylbenzene           | 13.18 | 105  | 491944   | 20.779  | ug/l   | 100      |
| 82) p-Isopropyltoluene         | 13.29 | 119  | 444000   | 20.884  | ug/l   | 100      |
| 83) 1,3-Dichlorobenzene        | 13.29 | 146  | 217898   | 20.621  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 13.37 | 146  | 212954   | 20.177  | ug/l   | 99       |
| 85) n-Butylbenzene             | 13.62 | 91   | 396331   | 20.362  | ug/l   | 100      |
| 86) Hexachloroethane           | 13.88 | 117  | 78827    | 20.374  | ug/l   | 100      |
| 87) 1,2-Dichlorobenzene        | 13.66 | 146  | 218411   | 20.938  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 37482    | 20.807  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene     | 14.92 | 180  | 129193   | 19.614  | ug/l   | 99       |
| 90) Hexachlorobutadiene        | 15.02 | 225  | 69800    | 20.522  | ug/l   | 99       |
| 91) Naphthalene                | 15.13 | 128  | 380322   | 19.556  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene     | 15.30 | 180  | 123360   | 19.239  | ug/l   | 99       |

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Sample : VN1012WBS01  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Oct 11 17:28:51 2019  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Oct 11 04:26:47 2019  
Response via : Initial Calibration

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

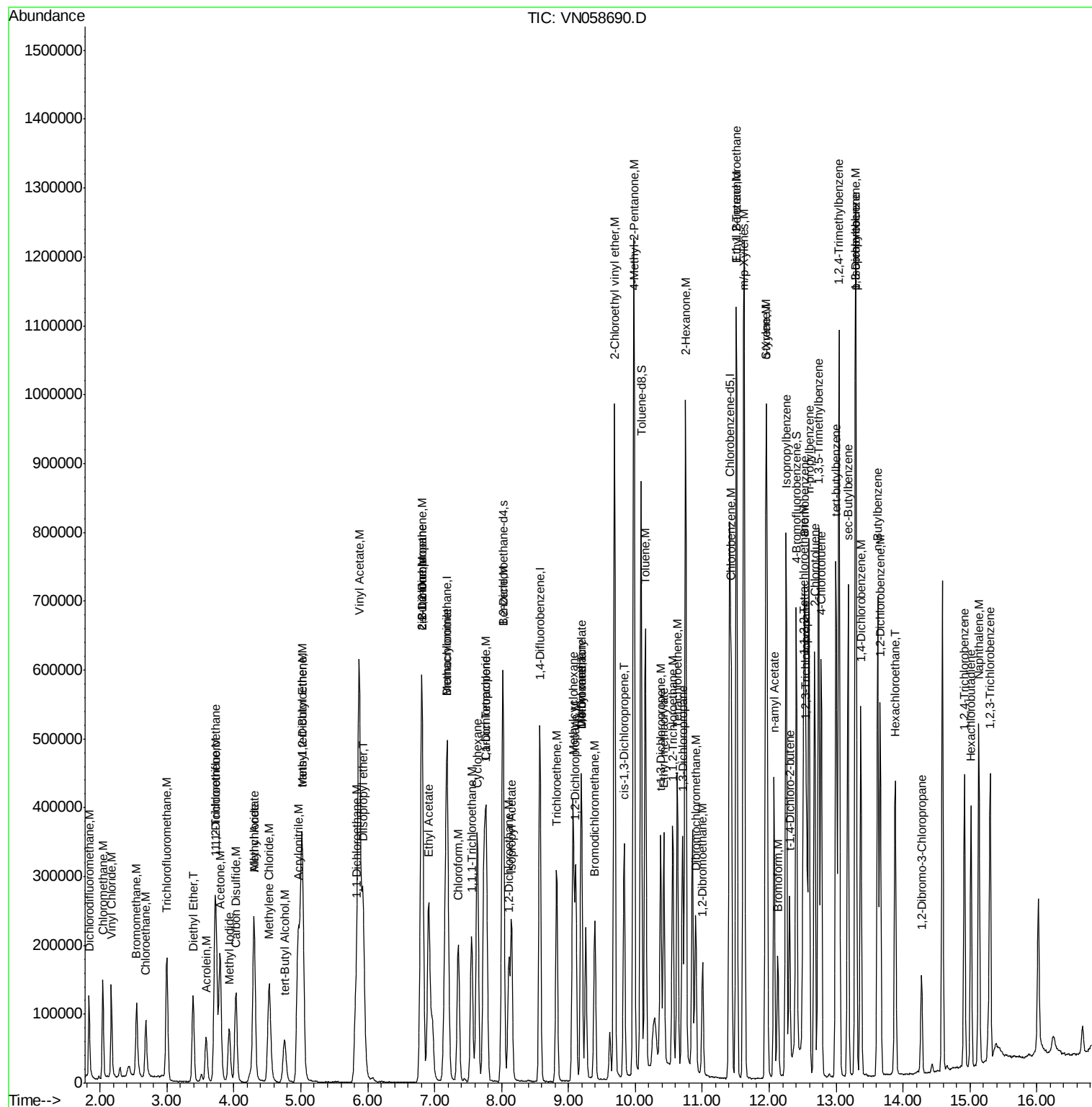
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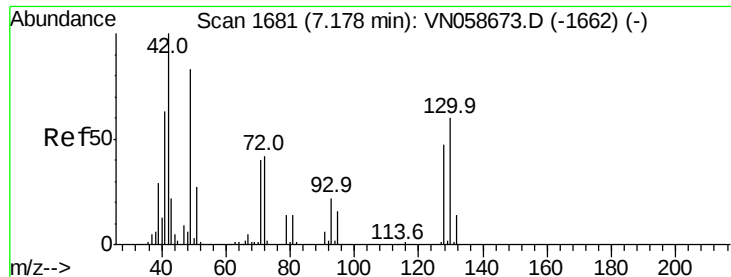
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN101219\  
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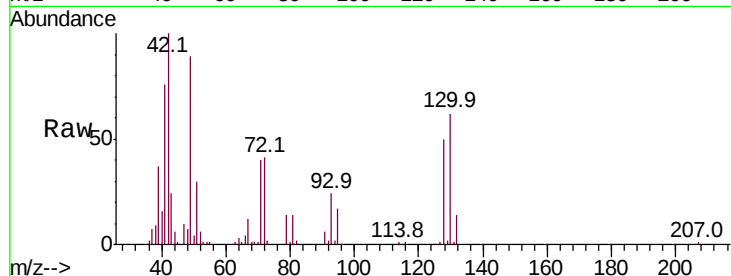




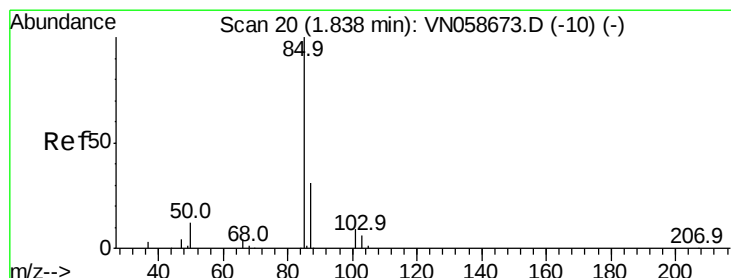
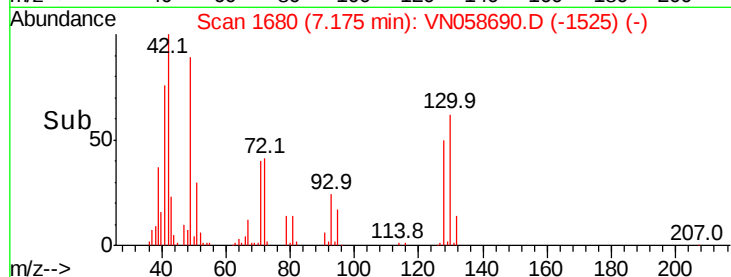
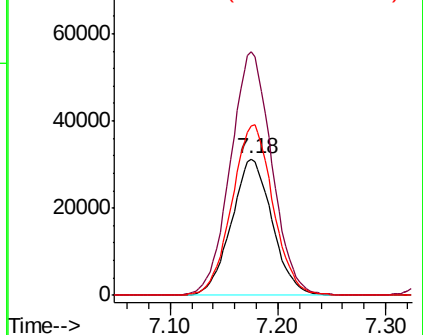
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.18 min Scan# 1680  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:128 Resp: 82260  
Ion Ratio Lower Upper  
128 100  
49 181.5 0.0 453.5  
130 126.3 0.0 314.2

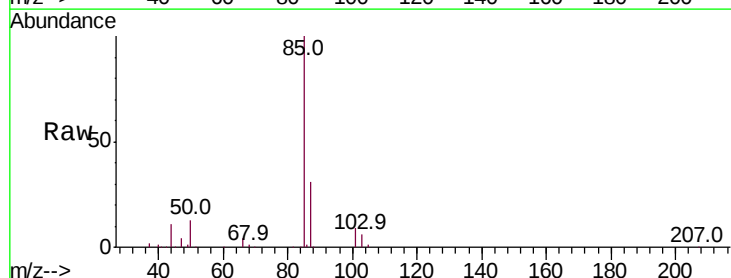


Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 49.00 (48.70 to 49.70): VNO  
Ion 130.00 (129.70 to 130.70): V

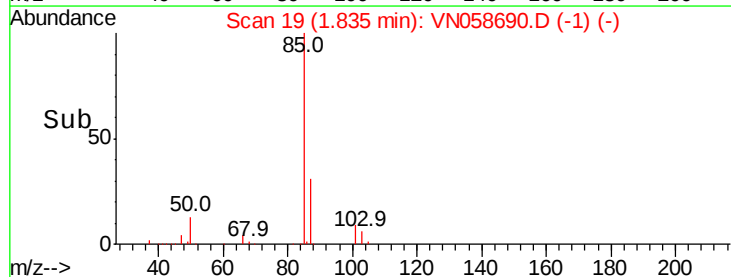
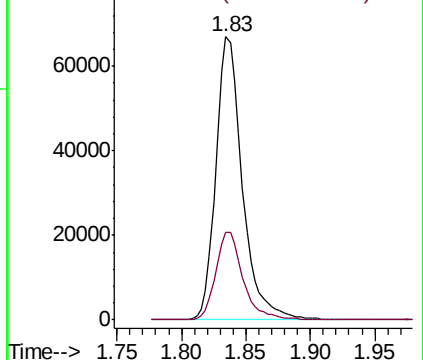


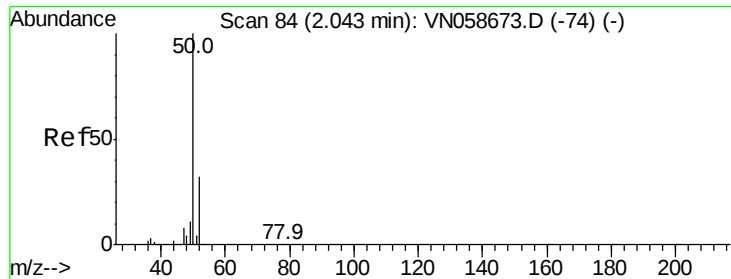
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Dichlorodifluoromethane  
Concen: 21.451 ug/l  
RT: 1.83 min Scan# 19  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 85 Resp: 95608  
Ion Ratio Lower Upper  
85 100  
87 31.0 15.7 47.0



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





#3

Chloromethane

Concen: 20.734 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

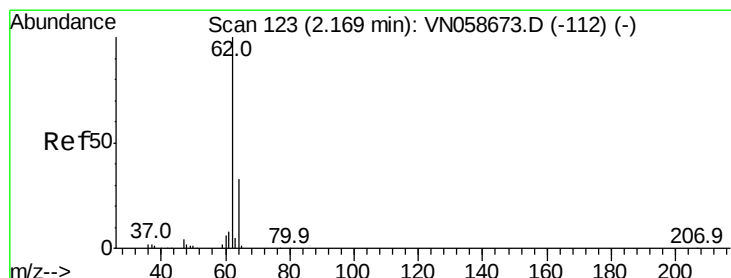
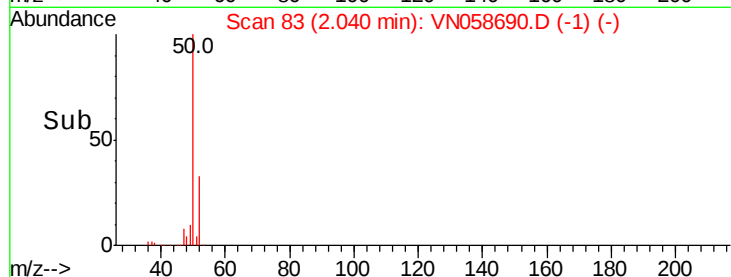
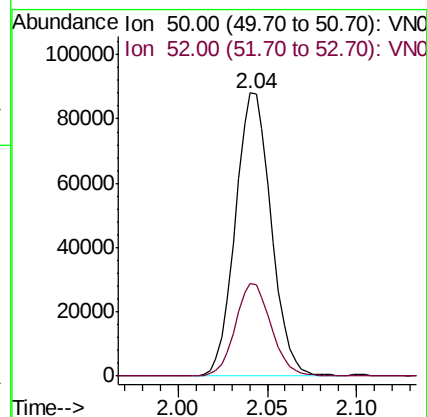
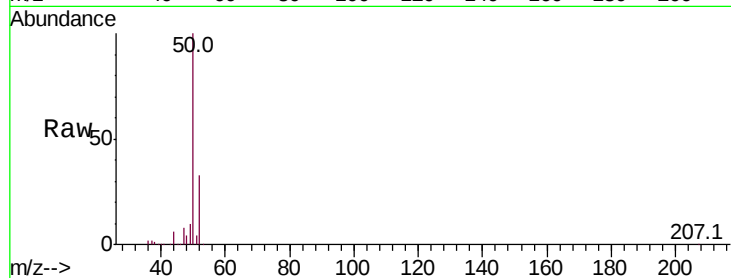
ClientSampleId :

Tot Ion: 50 Resp: 123440

Ion Ratio Lower Upper

50 100

52 32.8 25.8 38.8



#4

Vinyl Chloride

Concen: 19.968 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058690.D

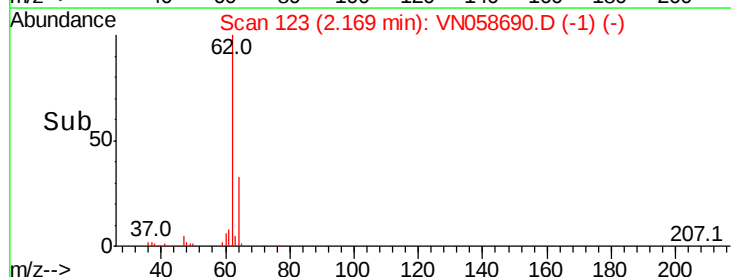
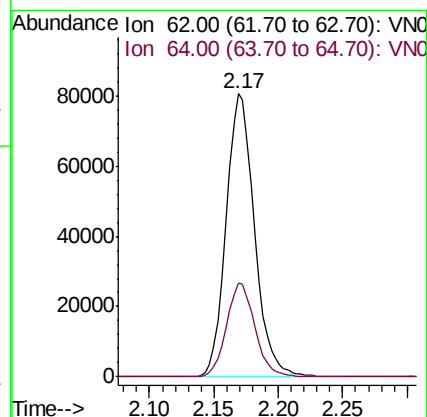
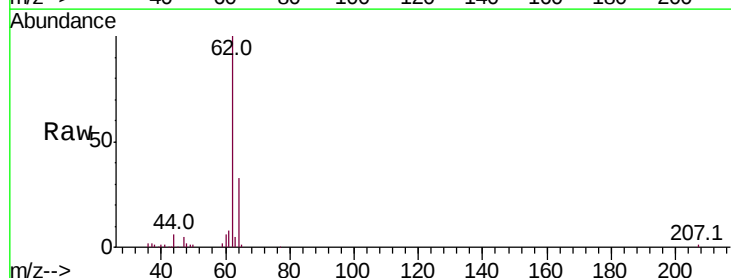
Acq: 11 Oct 2019 10:03

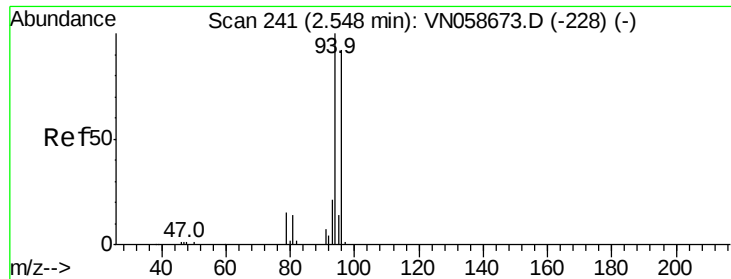
Tgt Ion: 62 Resp: 122867

Ion Ratio Lower Upper

62 100

64 33.0 26.1 39.1





#5

Bromomethane

Concen: 20.443 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

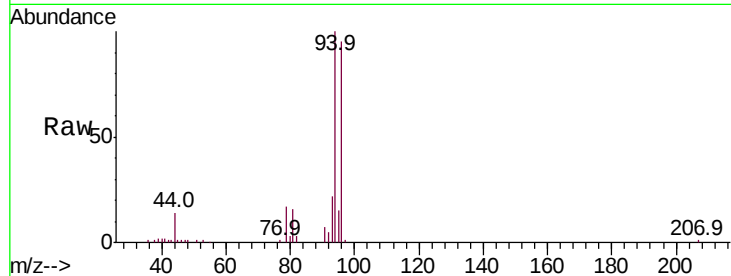
ClientSampleId :

Tot Ion: 94 Resp: 77664

Ion Ratio Lower Upper

94 100

96 95.0 73.7 110.5



Abundance Ion 94.00 (93.70 to 94.70): VN058690.D (-240) (-)

Ion 96.00 (95.70 to 96.70): VN058690.D (-240) (-)

2.55

40000

30000

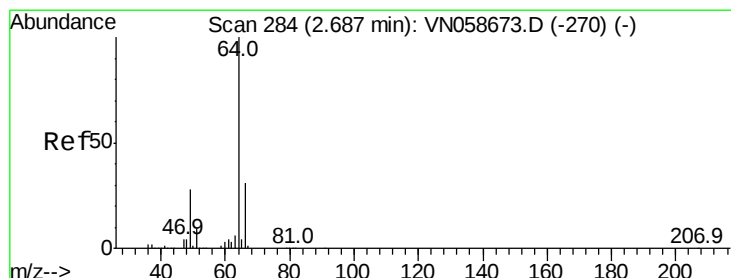
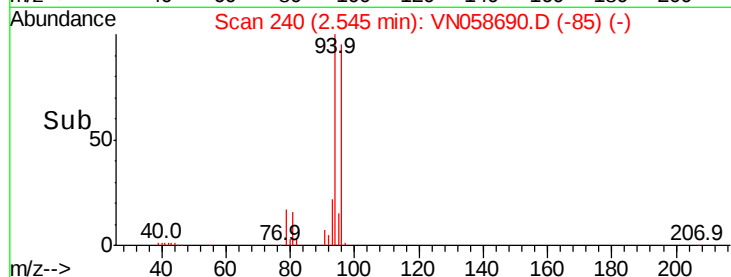
20000

10000

0

Time-->

2.45 2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 20.909 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN058690.D

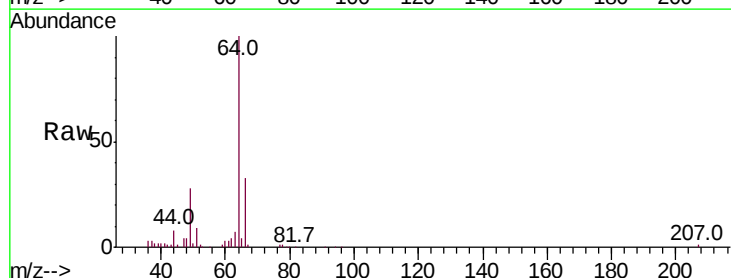
Acq: 11 Oct 2019 10:03

Tgt Ion: 64 Resp: 80870

Ion Ratio Lower Upper

64 100

66 32.7 24.6 36.8



Abundance Ion 64.00 (63.70 to 64.70): VN058690.D (-283) (-)

Ion 66.00 (65.70 to 66.70): VN058690.D (-283) (-)

2.68

40000

30000

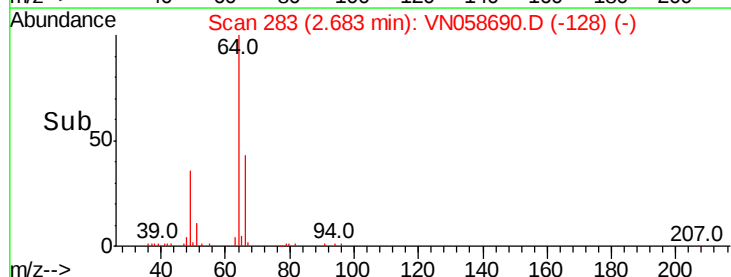
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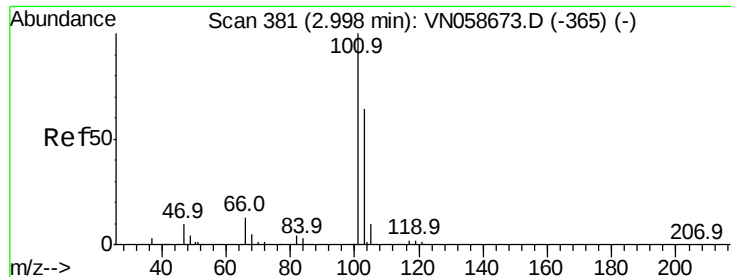
10000

0

Time-->

2.60 2.65 2.70 2.75 2.80



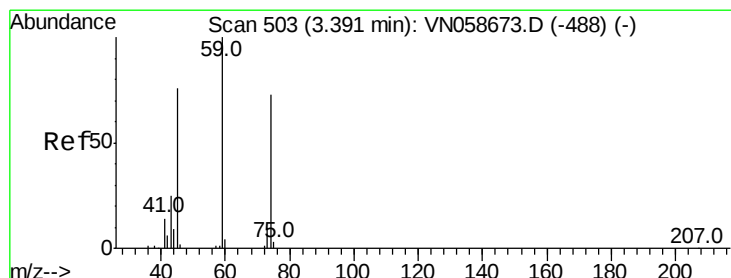
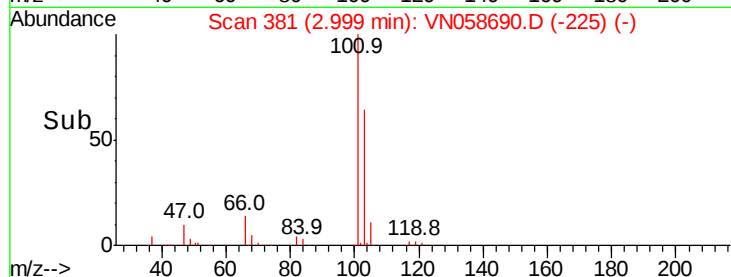
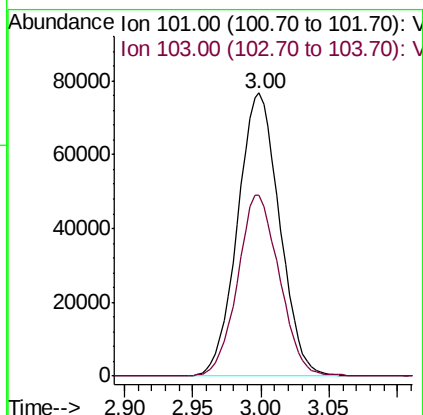
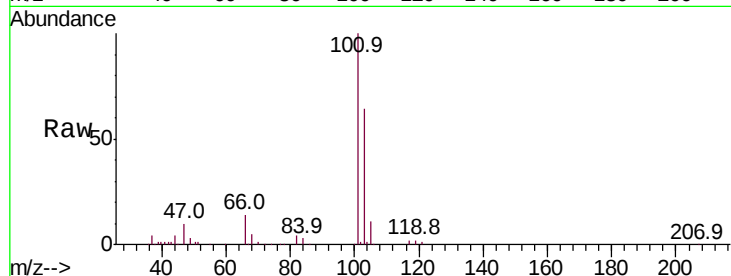


#7

Trichlorofluoromethane  
Concen: 21.642 ug/l  
RT: 3.00 min Scan# 381  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampled :

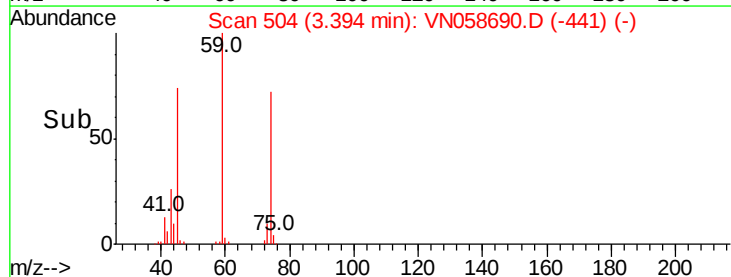
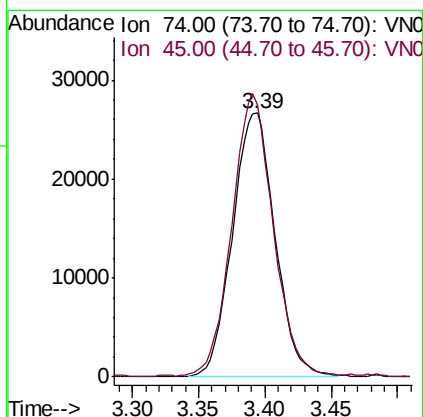
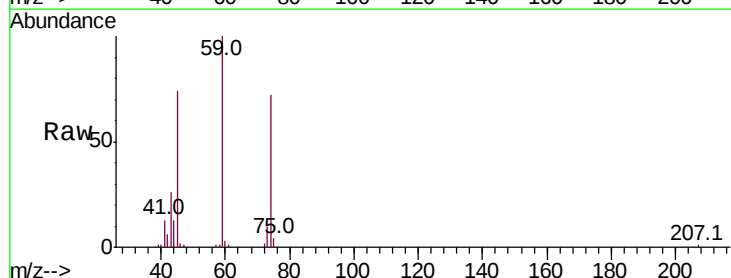
Tot Ion:101 Resp: 163909  
Ion Ratio Lower Upper  
101 100  
103 63.8 51.5 77.3

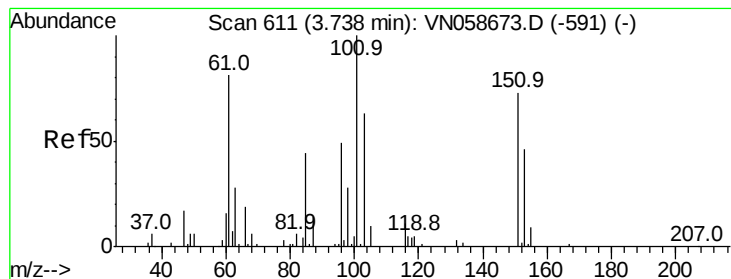


#8

Diethyl Ether  
Concen: 20.576 ug/l  
RT: 3.39 min Scan# 504  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 74 Resp: 59434  
Ion Ratio Lower Upper  
74 100  
45 104.8 20.6 185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.415 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

ClientSampleId :

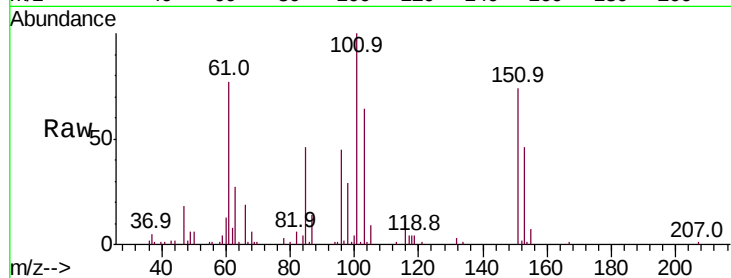
Tot Ion:101 Resp: 93844

Ion Ratio Lower Upper

101 100

85 46.4 0.0 93.8

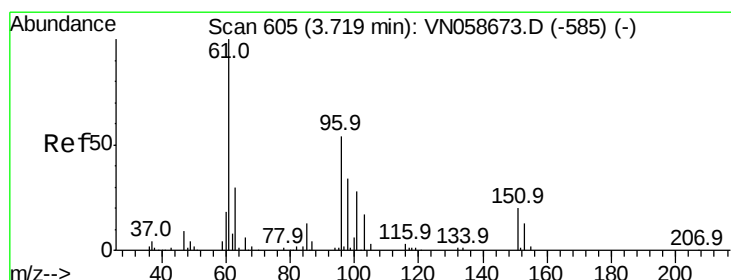
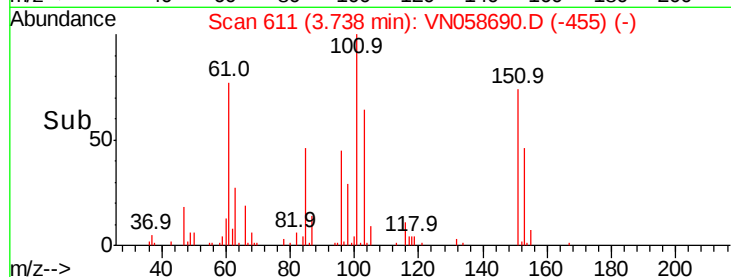
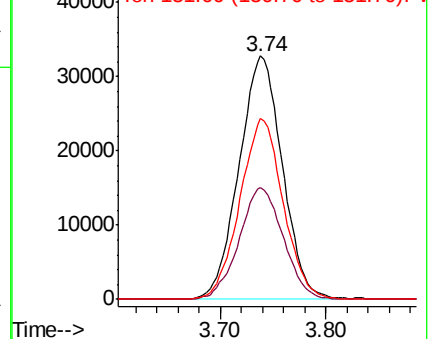
151 74.1 0.0 149.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 20.399 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

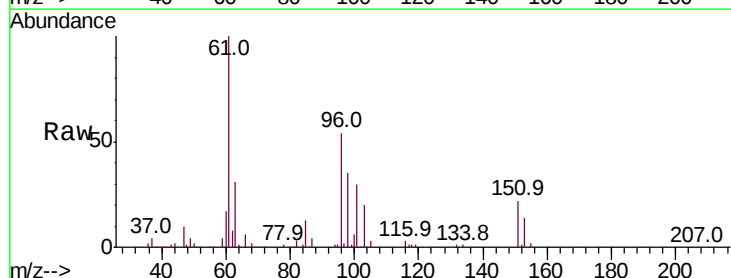
Tgt Ion: 96 Resp: 87797

Ion Ratio Lower Upper

96 100

61 183.8 148.5 222.7

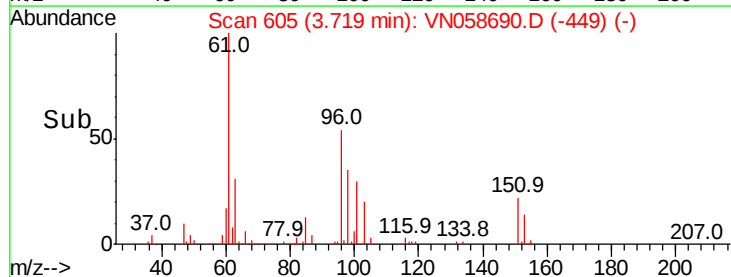
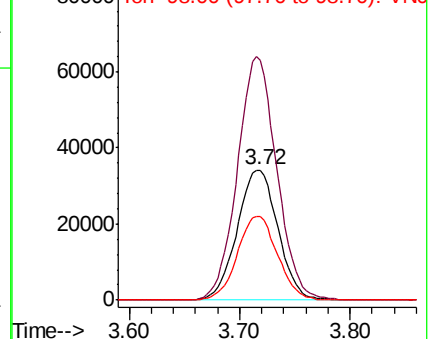
98 64.3 51.0 76.6

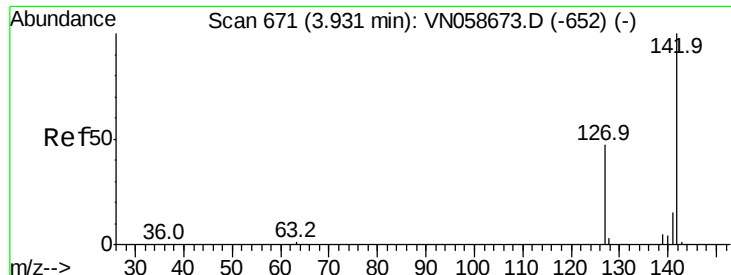


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

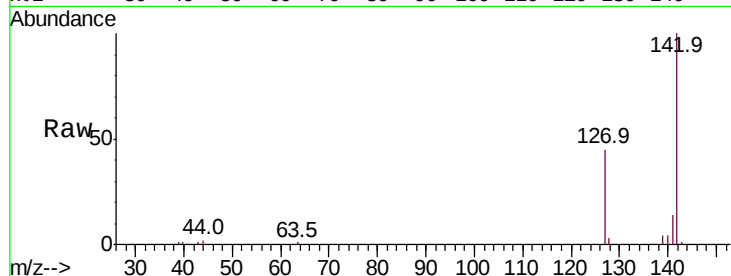




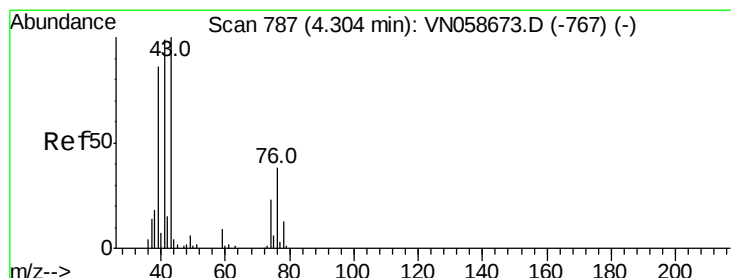
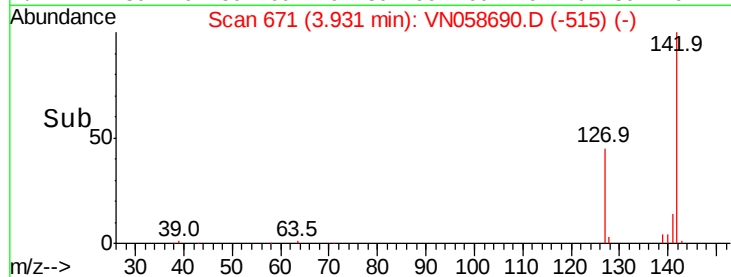
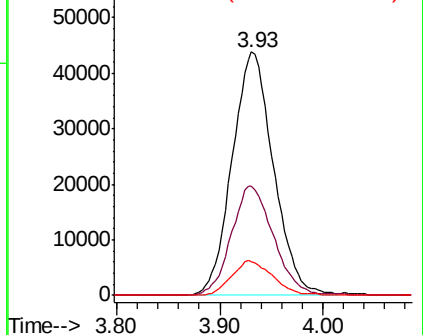
#11  
Methvl Iodide  
Concen: 20.390 ug/l  
RT: 3.93 min Scan# 671  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion:142 Resp: 122220  
Ion Ratio Lower Upper  
142 100  
127 44.9 23.5 70.6  
141 13.9 7.4 22.2

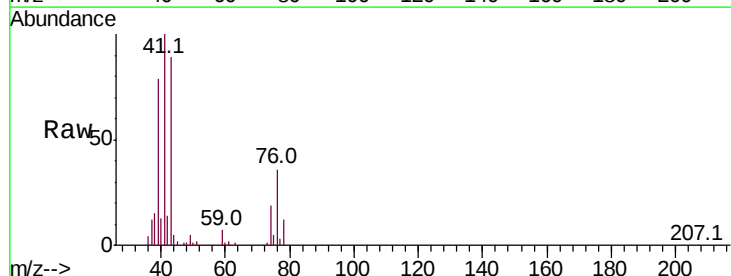


Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 141.00 (140.70 to 141.70): V

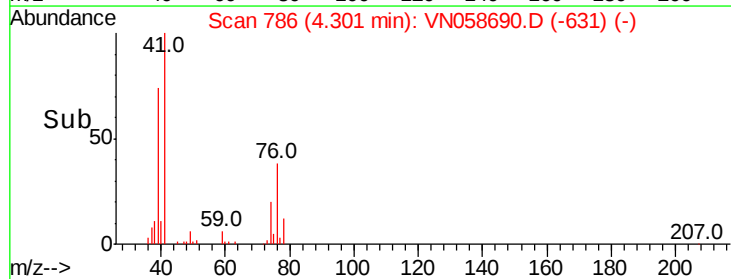
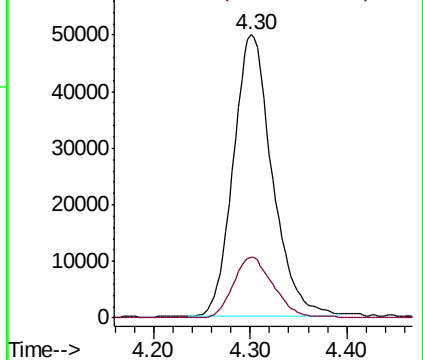


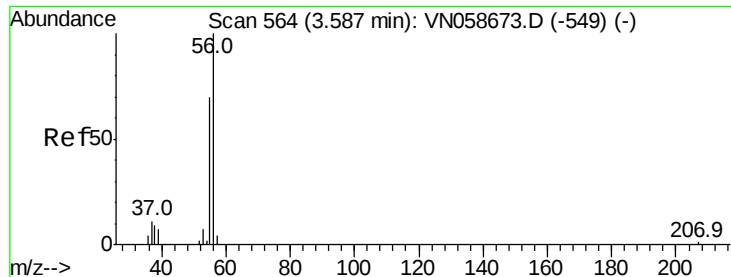
#12  
Methyl Acetate  
Concen: 20.266 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 43 Resp: 139552  
Ion Ratio Lower Upper  
43 100  
74 21.5 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): V  
Ion 74.00 (73.70 to 74.70): V





#13

Acrolein

Concen: 93.485 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

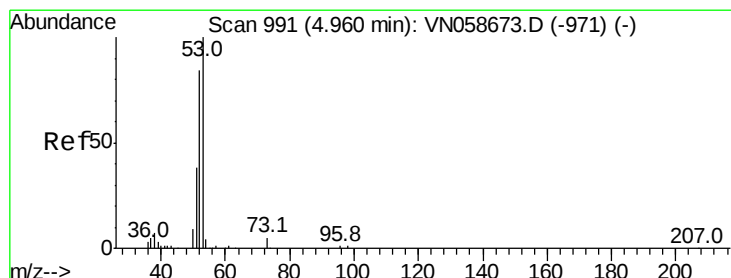
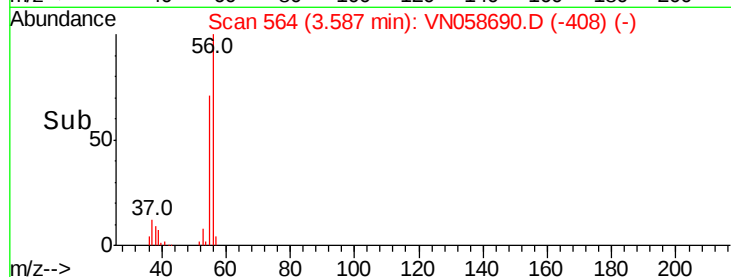
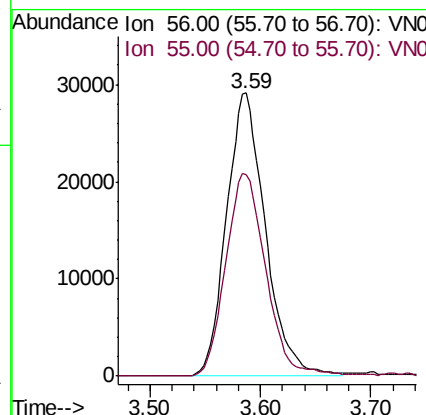
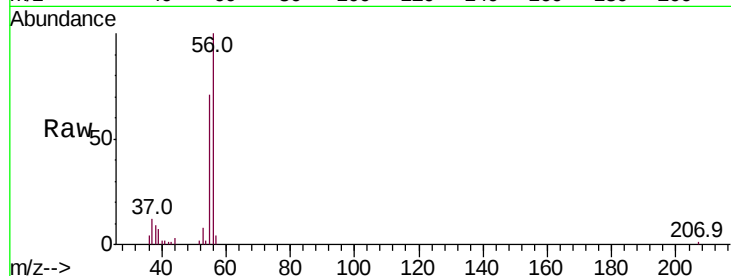
ClientSampleId :

Tot Ion: 56 Resp: 71129

Ion Ratio Lower Upper

56 100

55 73.1 55.9 83.9



#14

Acrylonitrile

Concen: 102.516 ug/l

RT: 4.96 min Scan# 991

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

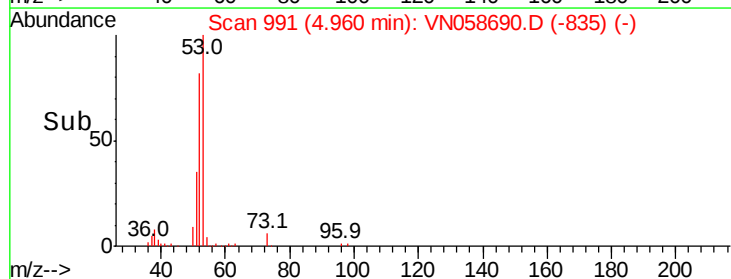
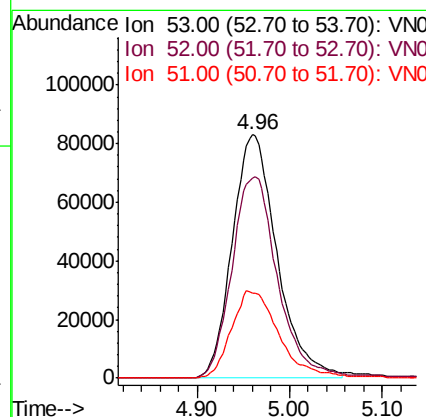
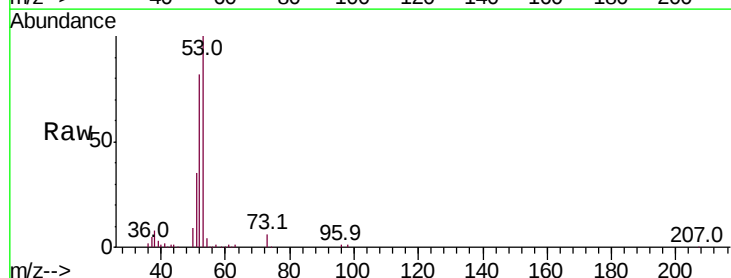
Tgt Ion: 53 Resp: 278157

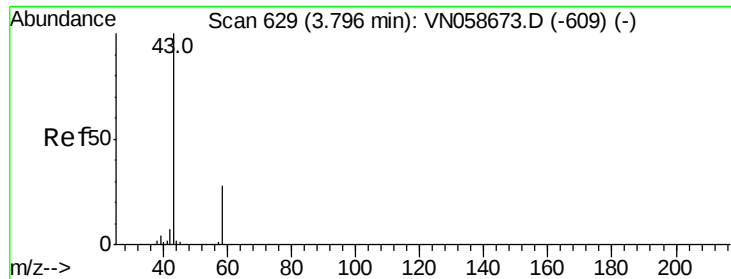
Ion Ratio Lower Upper

53 100

52 84.6 42.2 126.6

51 38.1 18.8 56.4





#15

Acetone

Concen: 109.886 ug/l

RT: 3.79 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

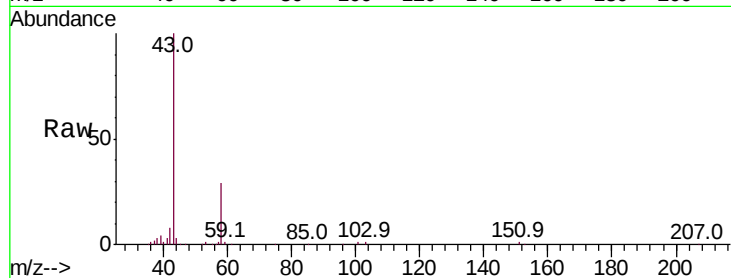
ClientSampled :

Tot Ion: 58 Resp: 88503

Ion Ratio Lower Upper

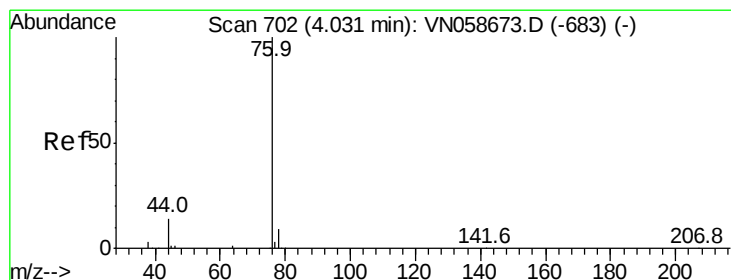
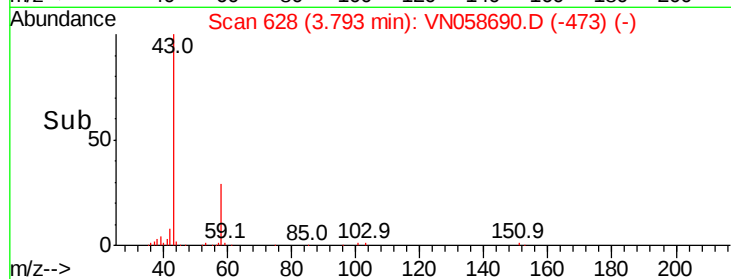
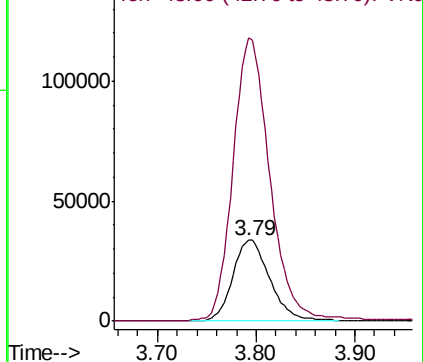
58 100

43 348.6 281.7 422.5



Abundance Ion 58.00 (57.70 to 58.70): VNO

Ion 43.00 (42.70 to 43.70): VNO



#16

Carbon Disulfide

Concen: 20.052 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058690.D

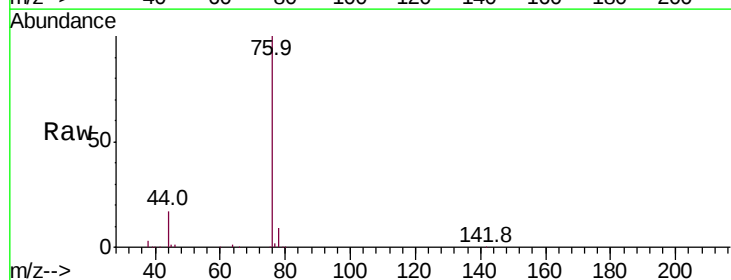
Acq: 11 Oct 2019 10:03

Tgt Ion: 76 Resp: 251726

Ion Ratio Lower Upper

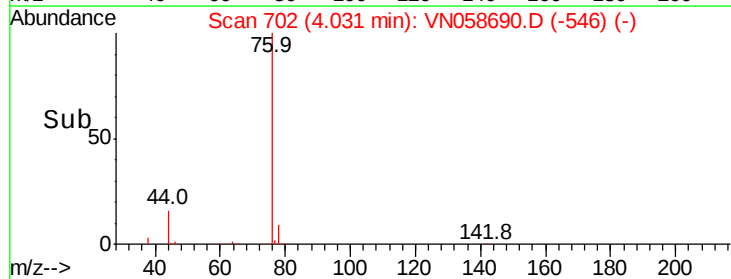
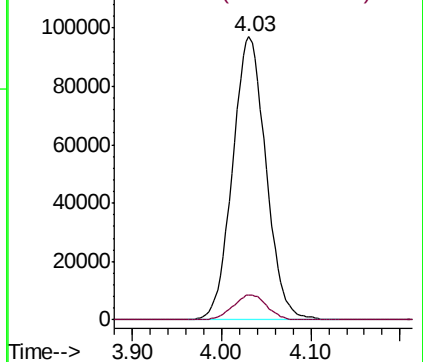
76 100

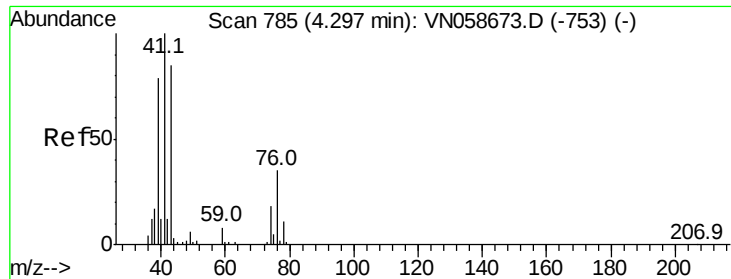
78 8.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VNO

Ion 78.00 (77.70 to 78.70): VNO

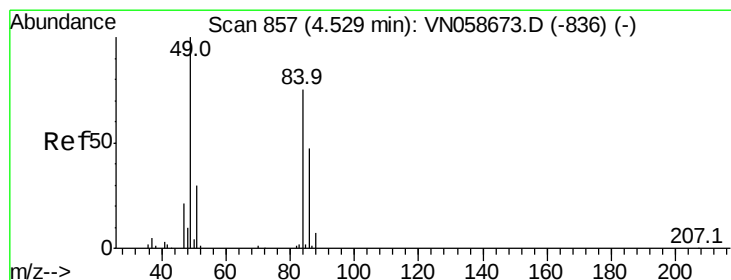
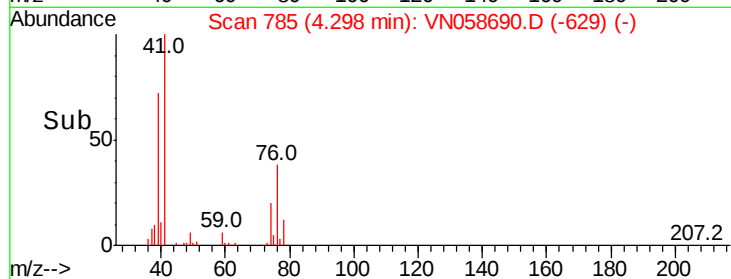
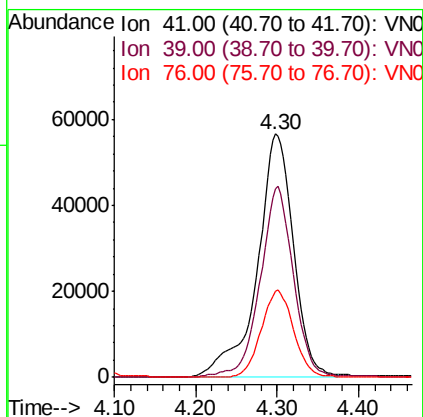
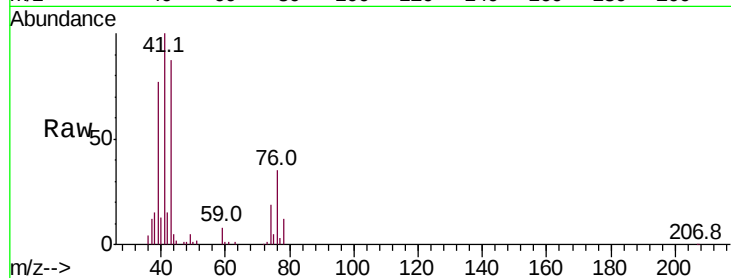




#17  
Allvl chloride  
Concen: 20.357 ug/l  
RT: 4.30 min Scan# 785  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

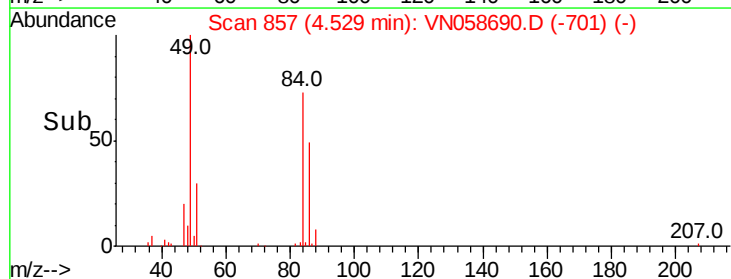
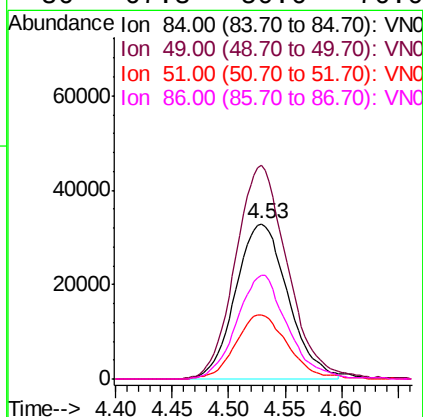
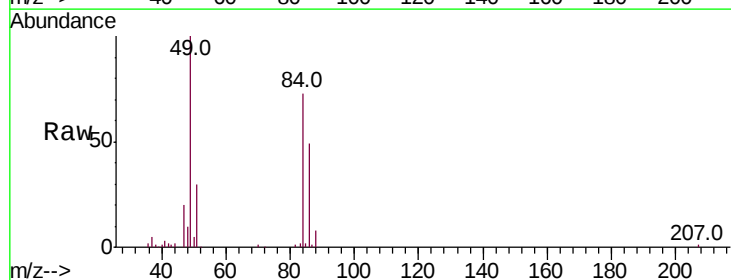
Instrument :  
MSVOA\_N  
ClientSampleId :

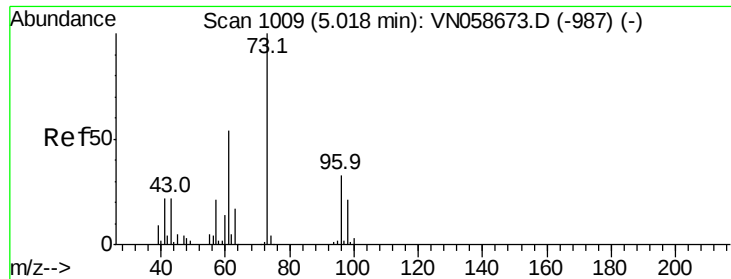
Tot Ion: 41 Resp: 174389  
Ion Ratio Lower Upper  
41 100  
39 77.7 39.6 118.8  
76 35.6 17.6 52.9



#18  
Methylene Chloride  
Concen: 20.287 ug/l  
RT: 4.53 min Scan# 857  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 84 Resp: 105731  
Ion Ratio Lower Upper  
84 100  
49 136.9 106.6 160.0  
51 41.1 32.4 48.6  
86 67.3 50.6 76.0

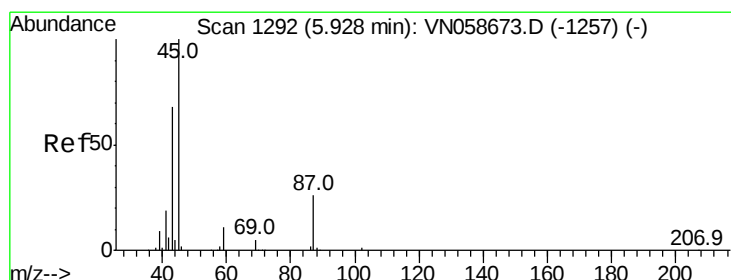
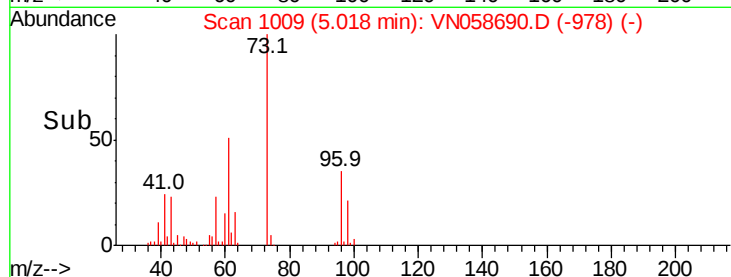
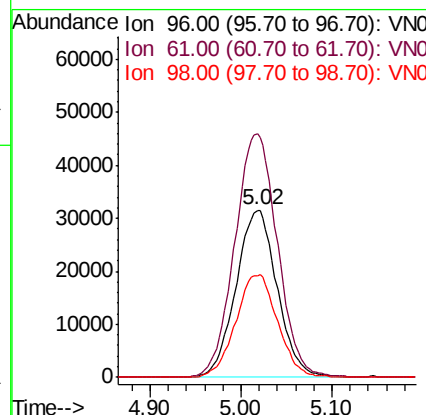
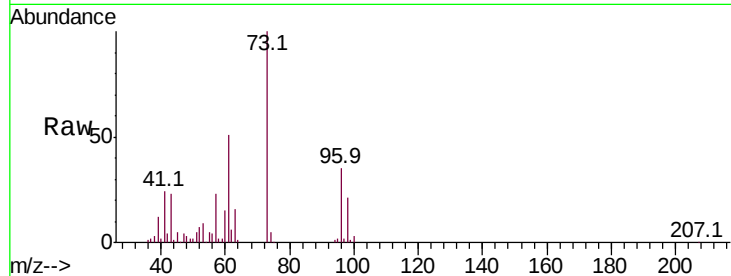




#19  
trans-1,2-Dichloroethene  
Concen: 21.204 ug/l  
RT: 5.02 min Scan# 1009  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

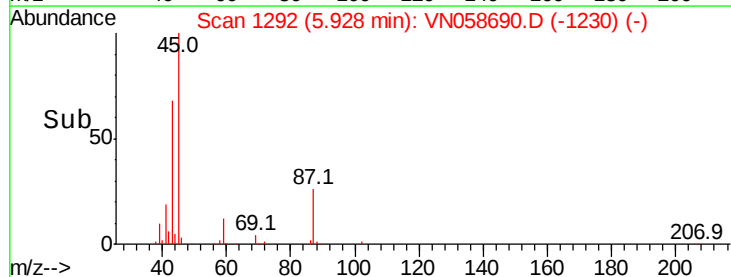
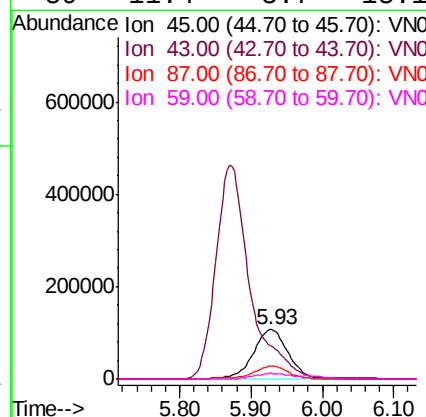
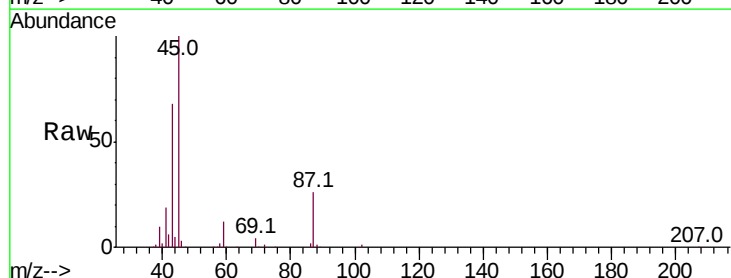
Instrument :  
MSVOA\_N  
ClientSampleId :

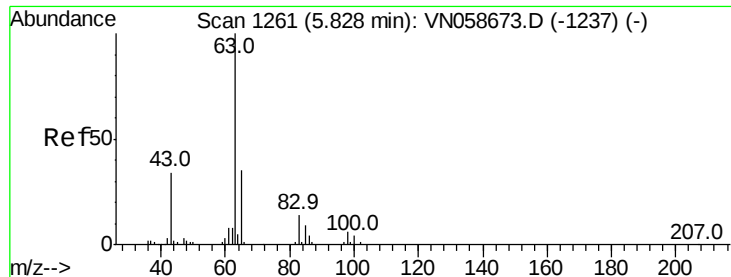
Tot Ion: 96 Resp: 99354  
Ion Ratio Lower Upper  
96 100  
61 144.8 131.8 197.6  
98 60.9 52.6 79.0



#20  
Diisopropyl ether  
Concen: 20.767 ug/l  
RT: 5.93 min Scan# 1292  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 45 Resp: 362460  
Ion Ratio Lower Upper  
45 100  
43 65.7 54.7 82.1  
87 25.9 21.5 32.3  
59 11.4 8.7 13.1





#21

1,1-Dichloroethane

Concen: 21.230 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

ClientSampleId :

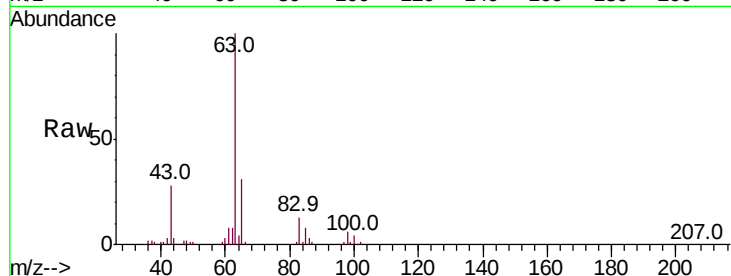
Tot Ion: 63 Resp: 205191

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.6

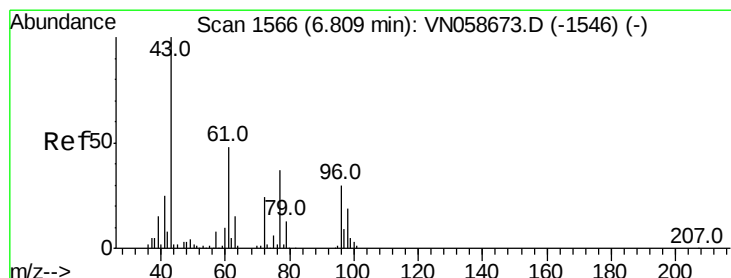
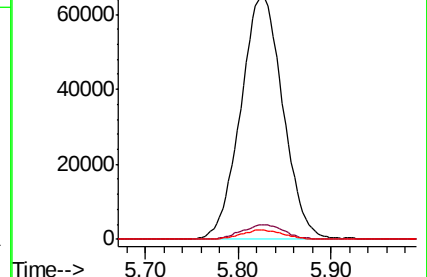
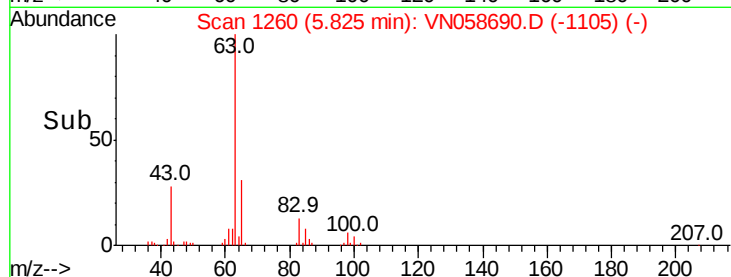
100 3.8 1.8 5.5



Abundance Ion 63.00 (62.70 to 63.70): VN058673.D (-1237) (-)

Ion 98.00 (97.70 to 98.70): VN058673.D (-1237) (-)

Ion 100.00 (99.70 to 100.70): VN058673.D (-1237) (-)



#22

cis-1,2-Dichloroethene

Concen: 21.019 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

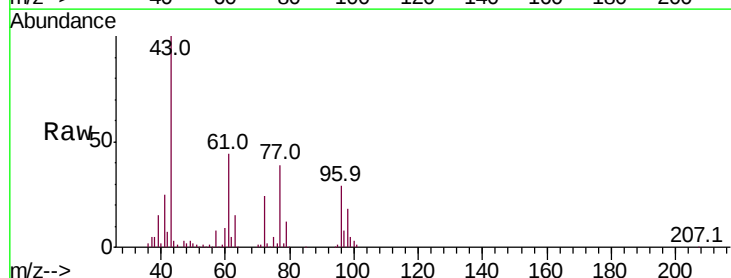
Tgt Ion: 96 Resp: 117422

Ion Ratio Lower Upper

96 100

61 159.3 127.2 190.8

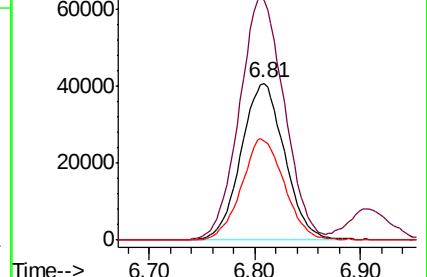
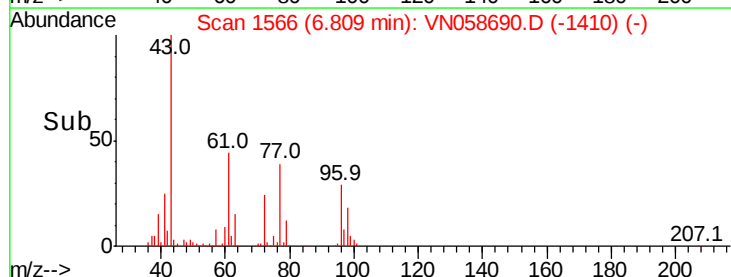
98 63.4 50.5 75.7

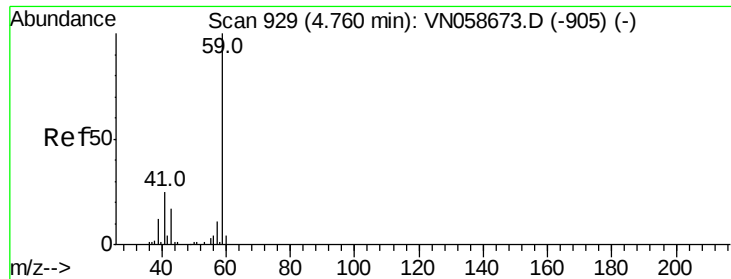


Abundance Ion 96.00 (95.70 to 96.70): VN058673.D (-1546) (-)

Ion 61.00 (60.70 to 61.70): VN058673.D (-1546) (-)

Ion 98.00 (97.70 to 98.70): VN058673.D (-1546) (-)





#23

tert-Butyl Alcohol

Concen: 100.128 ug/l

RT: 4.76 min Scan# 928

Delta R.T. -0.00 min

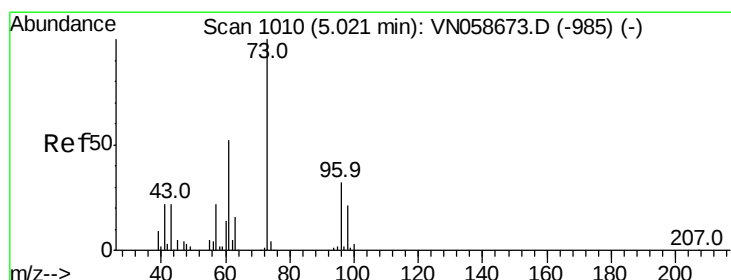
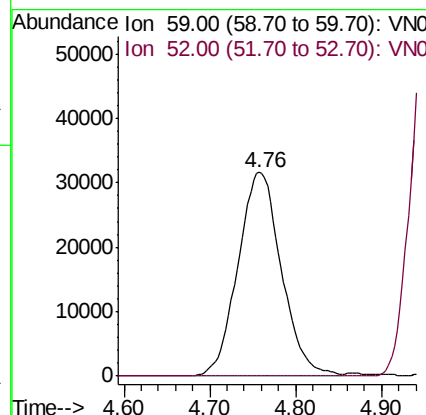
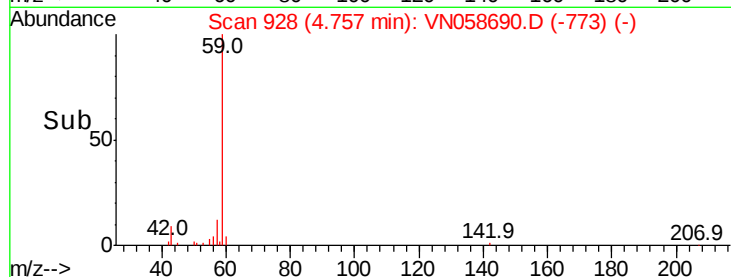
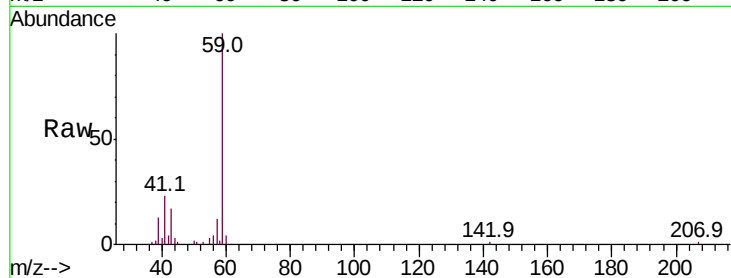
Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion: 59 Resp: 111123

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 59  | 100   |       |       |
| 52  | 0.0   | 0.0   | 0.0   |



#24

Methyl tert-Butyl Ether

Concen: 20.889 ug/l

RT: 5.02 min Scan# 1009

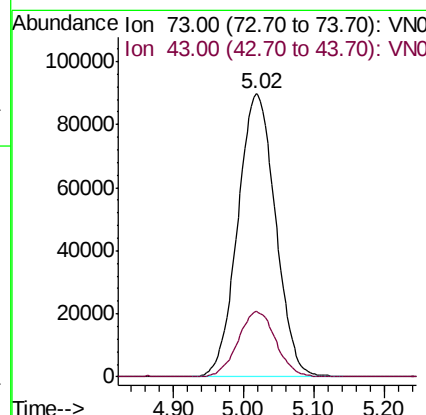
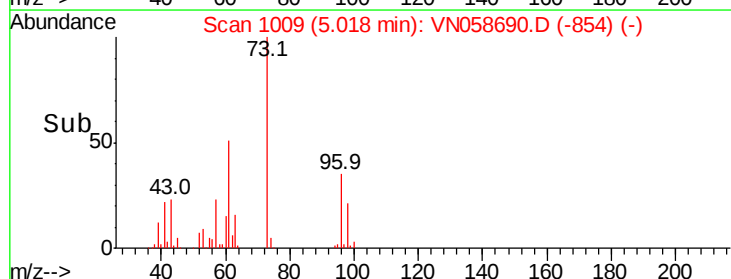
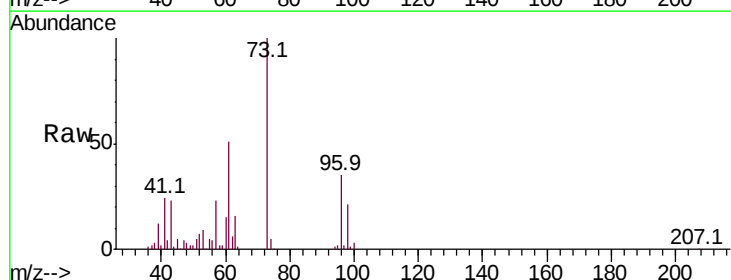
Delta R.T. -0.00 min

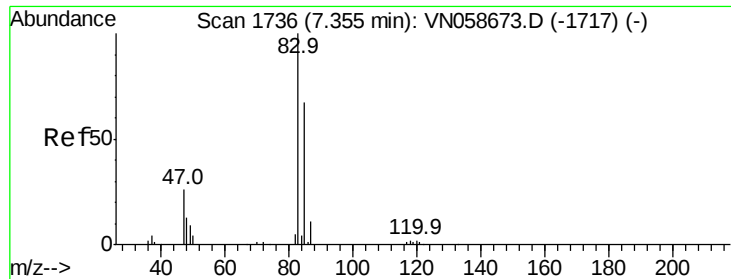
Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Tgt Ion: 73 Resp: 335412

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 22.4  | 17.9  | 26.9  |





#25

Chloroform

Concen: 20.841 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

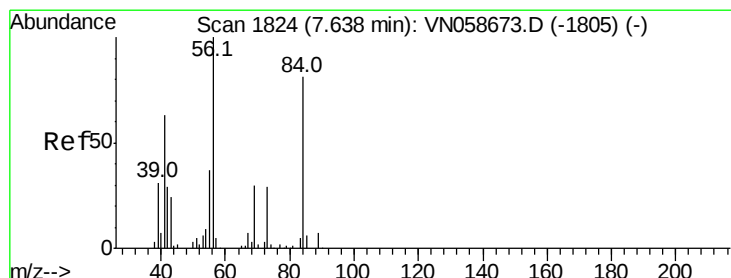
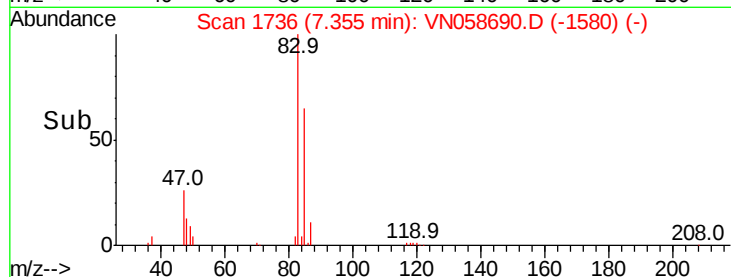
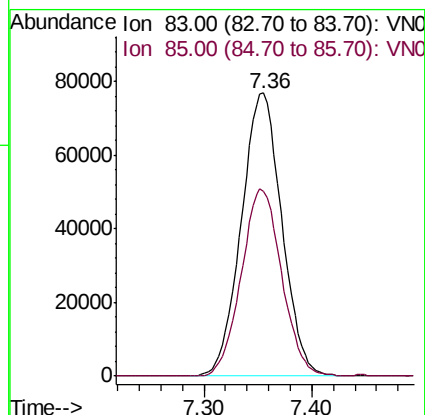
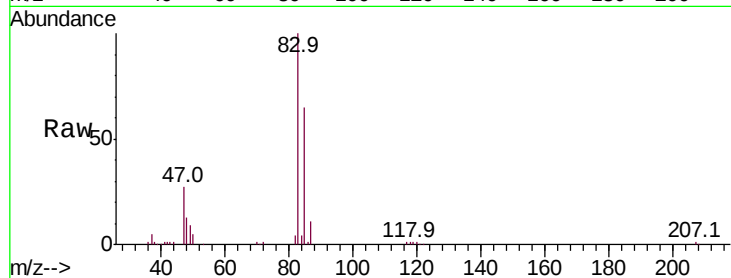
Instrument :  
MSVOA\_N  
ClientSampled :

Tot Ion: 83 Resp: 200892

Ion Ratio Lower Upper

83 100

85 65.5 53.8 80.8



#26

Cyclohexane

Concen: 20.254 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

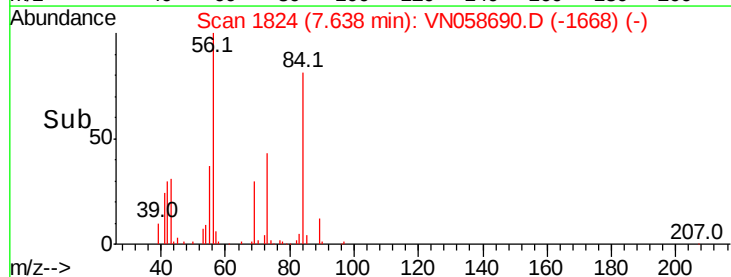
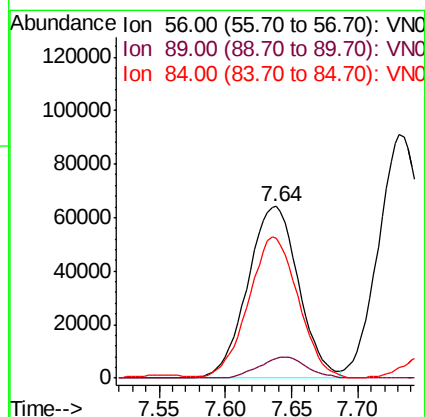
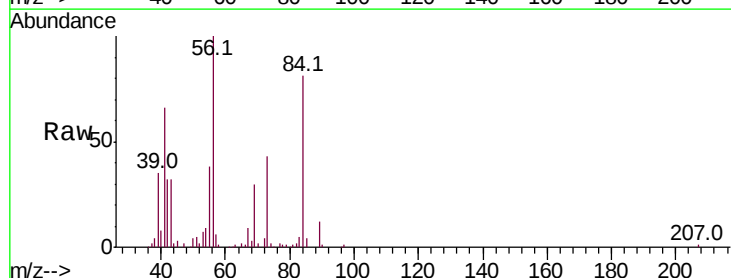
Tgt Ion: 56 Resp: 171815

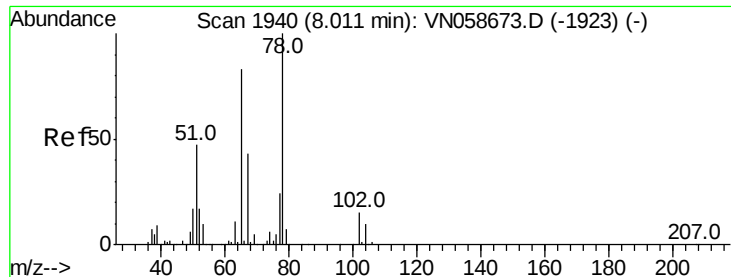
Ion Ratio Lower Upper

56 100

89 11.5 6.2 9.2#

84 80.7 65.6 98.4





#27

1,2-Dichloroethane-d4

Concen: 30.526 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

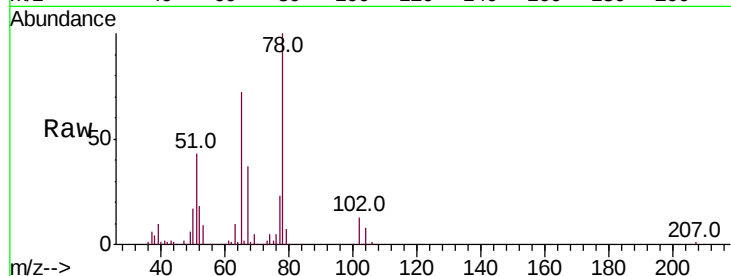
ClientSampled :

Tot Ion: 65 Resp: 213127

Ion Ratio Lower Upper

65 100

67 51.3 41.5 62.3



Abundance Ion 65.00 (64.70 to 65.70): VN058673.D (-1923) (-)

Ion 67.00 (66.70 to 67.70): VN058673.D (-1923) (-)

8.01

100000

80000

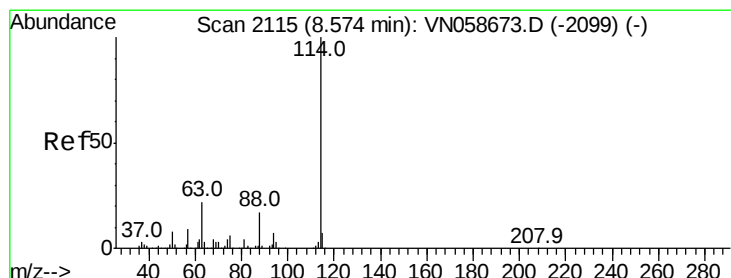
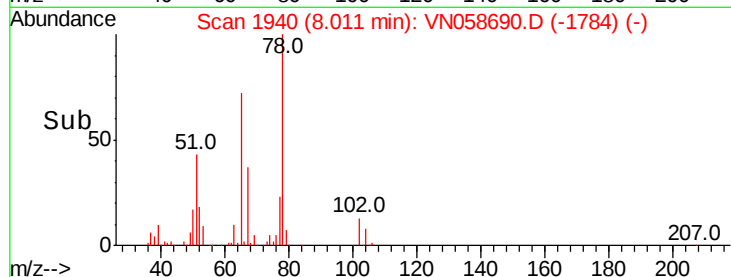
60000

40000

20000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

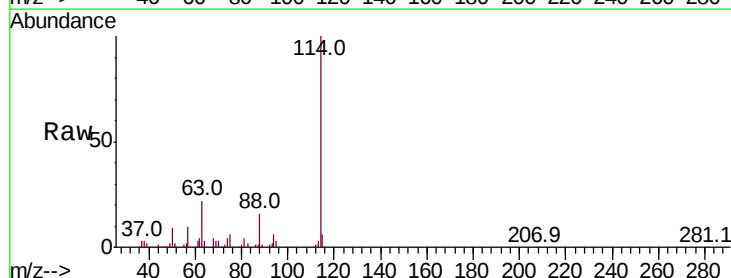
Tgt Ion: 114 Resp: 449849

Ion Ratio Lower Upper

114 100

63 22.2 18.1 27.1

88 16.3 13.0 19.4



Abundance Ion 114.00 (113.70 to 114.70): VN058673.D (-2099) (-)

Ion 63.00 (62.70 to 63.70): VN058673.D (-2099) (-)

Ion 88.00 (87.70 to 88.70): VN058673.D (-2099) (-)

8.57

300000

250000

200000

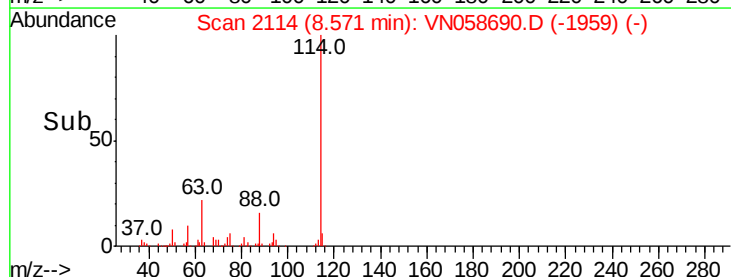
150000

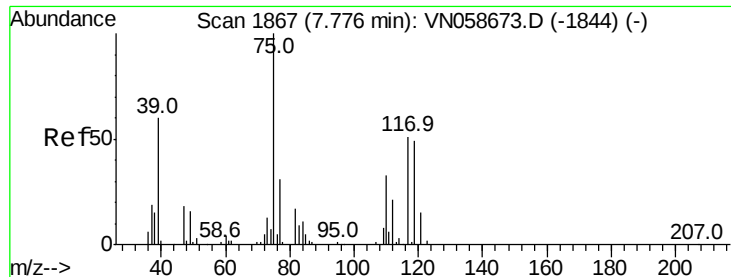
100000

50000

0

Time--> 8.50 8.55 8.60 8.65

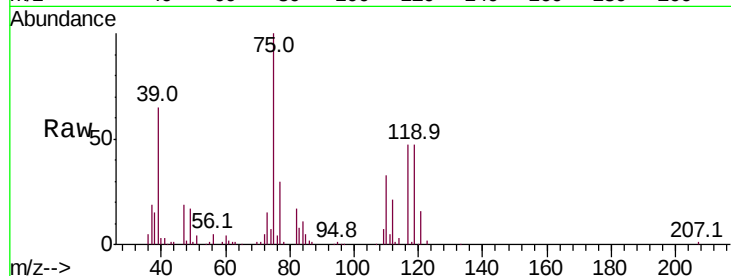




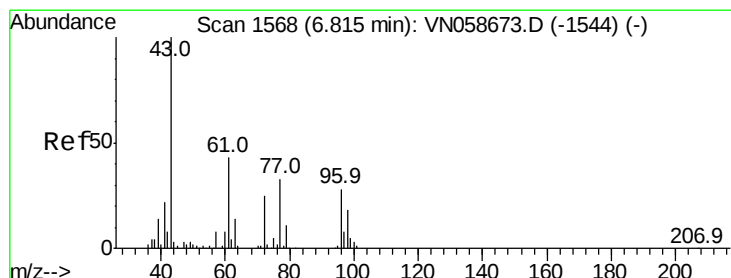
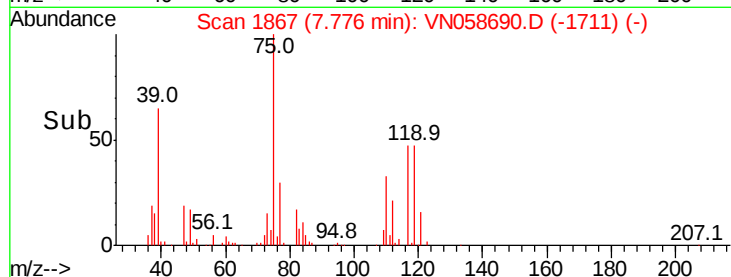
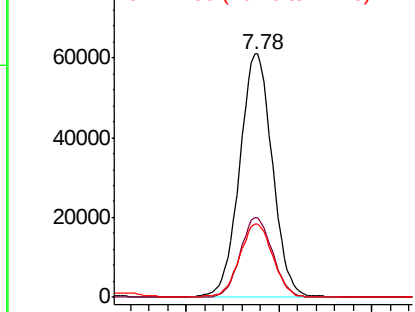
#29  
 1,1-Dichloropropene  
 Concen: 21.155 ug/l  
 RT: 7.78 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

Instrument :  
 MSVOA\_N  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 32.2  | 0.0   | 64.6  |
| 77      | 30.8  | 0.0   | 60.8  |

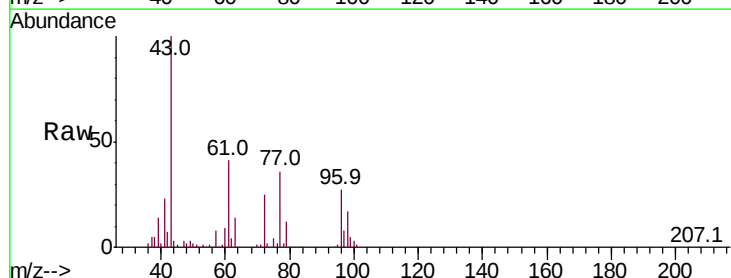


Abundance Ion 75.00 (74.70 to 75.70): VN0  
 Ion 110.00 (109.70 to 110.70): VN0  
 Ion 77.00 (76.70 to 77.70): VN0

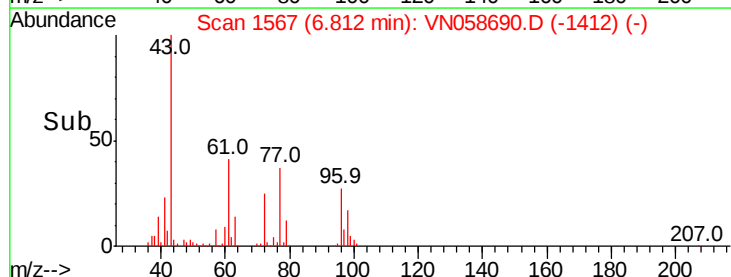
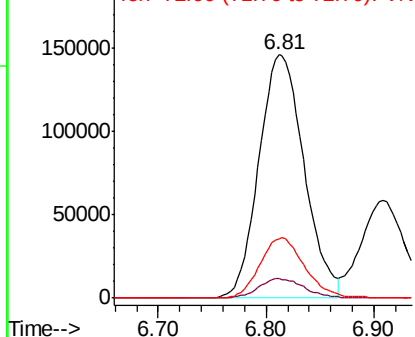


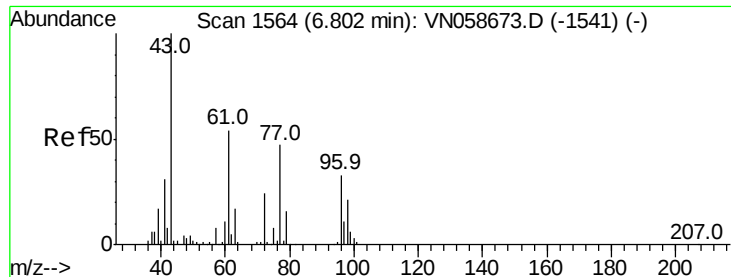
#30  
 2-Butanone  
 Concen: 105.709 ug/l  
 RT: 6.81 min Scan# 1567  
 Delta R.T. -0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.1   | 6.5   | 9.7   |
| 72      | 24.6  | 20.1  | 30.1  |



Abundance Ion 43.00 (42.70 to 43.70): VN0  
 Ion 57.00 (56.70 to 57.70): VN0  
 Ion 72.00 (71.70 to 72.70): VN0

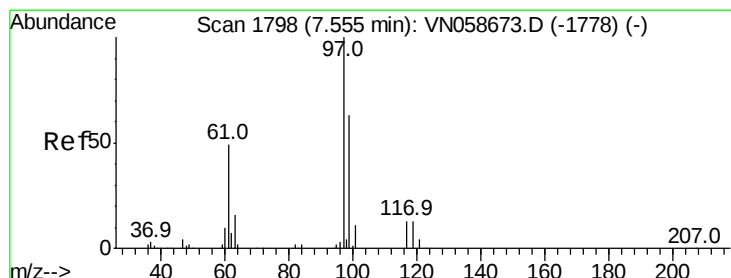
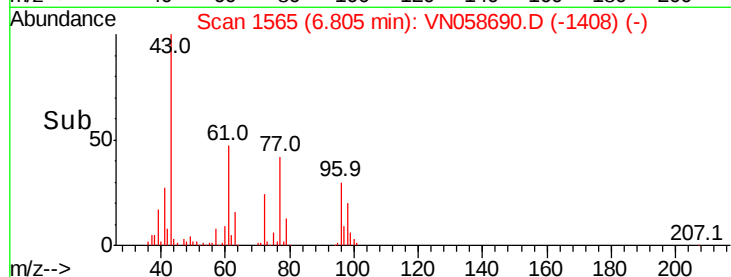
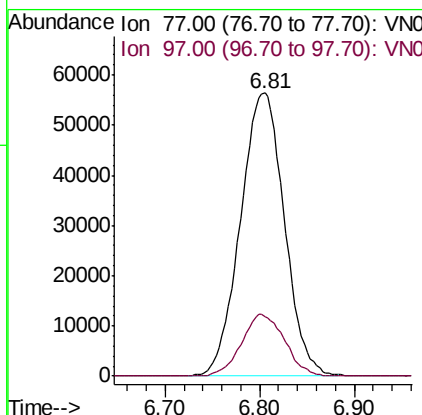
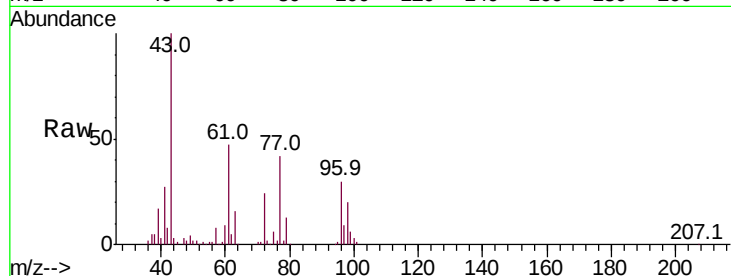




#31  
 2,2-Dichloropropane  
 Concen: 21.806 ug/l  
 RT: 6.81 min Scan# 1565  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

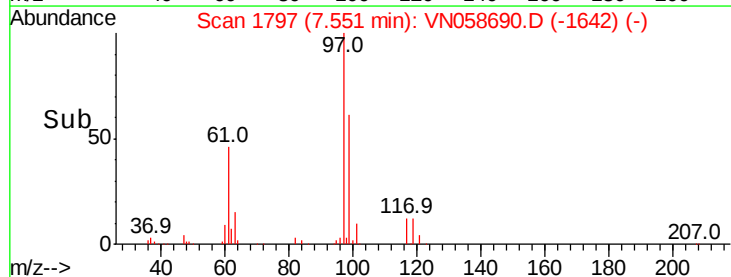
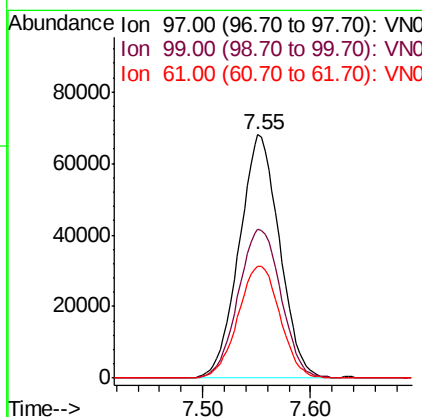
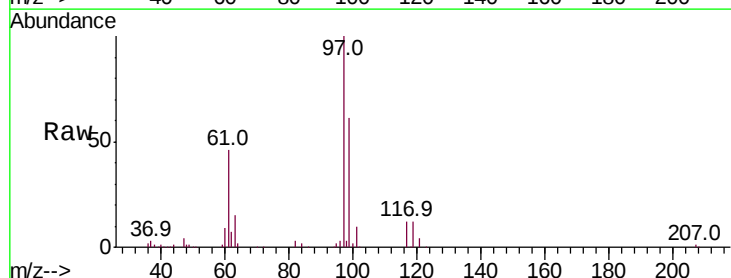
Instrument :  
 MSVOA\_N  
 ClientSampleId :

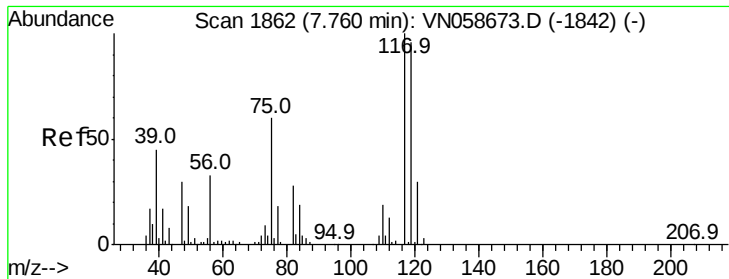
Tot Ion: 77 Resp: 182001  
 Ion Ratio Lower Upper  
 77 100  
 97 21.3 17.9 26.9



#32  
 1,1,1-Trichloroethane  
 Concen: 21.591 ug/l  
 RT: 7.55 min Scan# 1797  
 Delta R.T. -0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

Tgt Ion: 97 Resp: 176832  
 Ion Ratio Lower Upper  
 97 100  
 99 64.8 51.3 76.9  
 61 48.0 38.4 57.6





#33

Carbon Tetrachloride

Concen: 21.425 ug/l

RT: 7.75 min Scan# 1860

Delta R.T. -0.01 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

ClientSampleId :

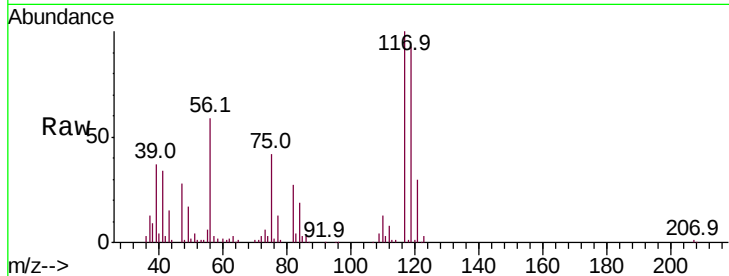
Tot Ion:117 Resp: 151884

Ion Ratio Lower Upper

117 100

119 92.7 76.9 115.3

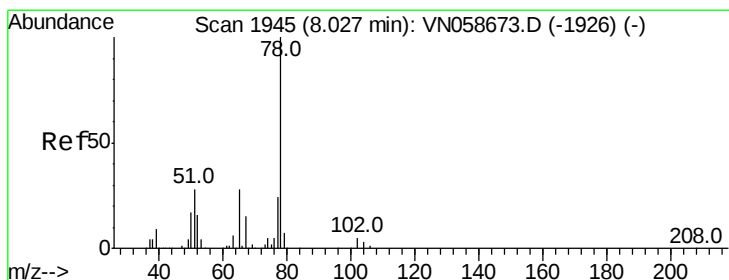
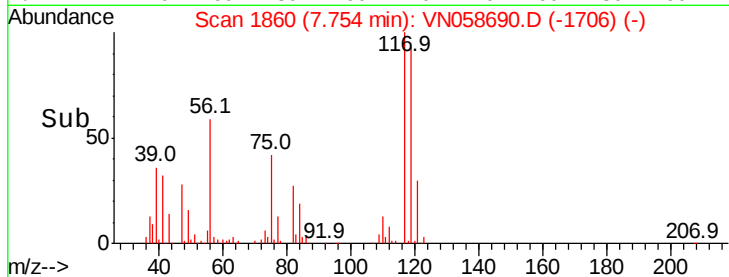
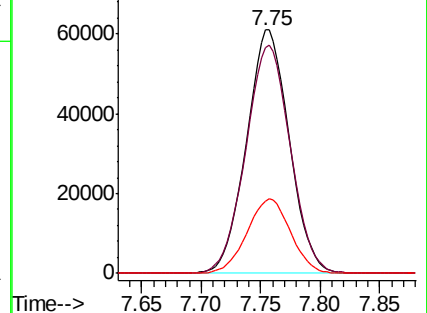
121 29.6 23.8 35.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 21.150 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

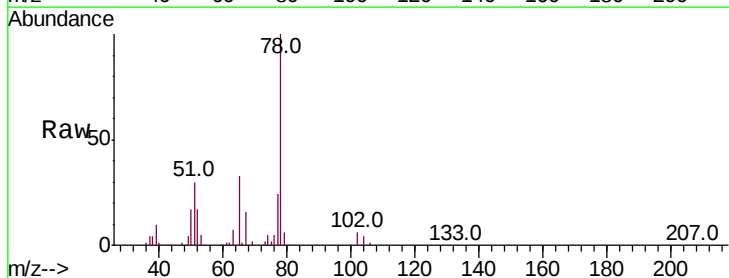
Tgt Ion: 78 Resp: 440925

Ion Ratio Lower Upper

78 100

77 24.0 19.2 28.8

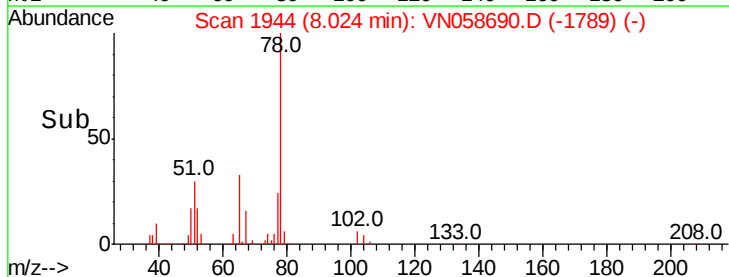
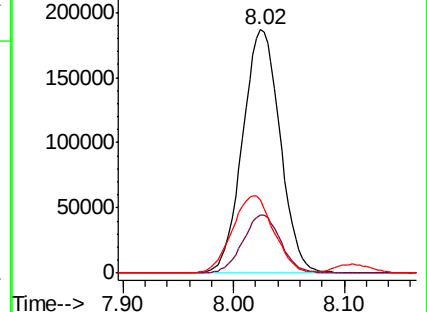
51 29.9 22.1 33.1

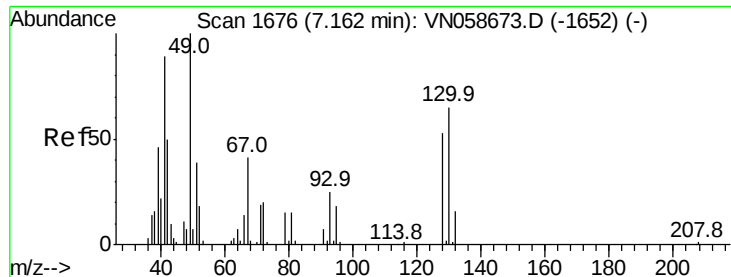


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

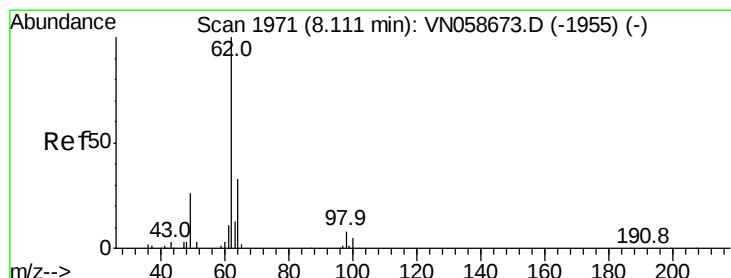
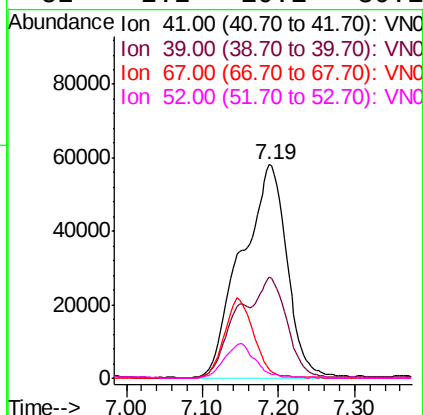
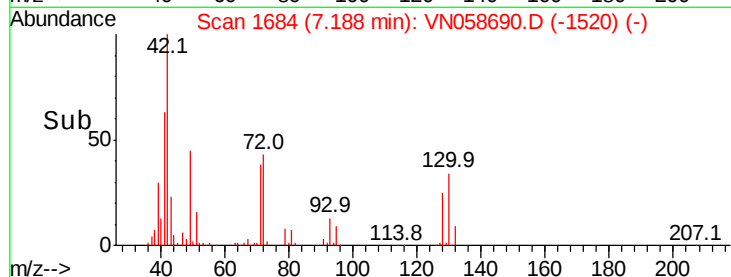
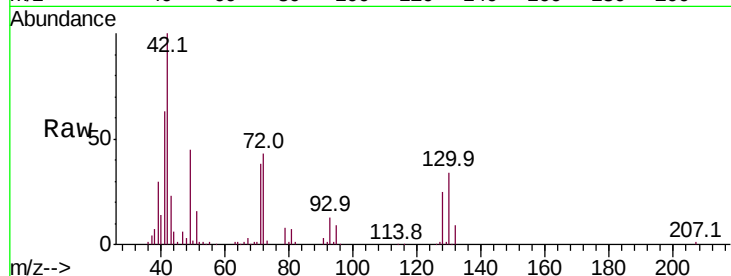




#35  
Methacrylonitrile  
Concen: 68.527 ug/l  
RT: 7.19 min Scan# 1684  
Delta R.T. 0.03 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

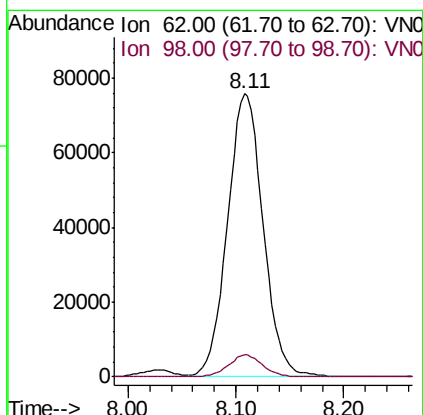
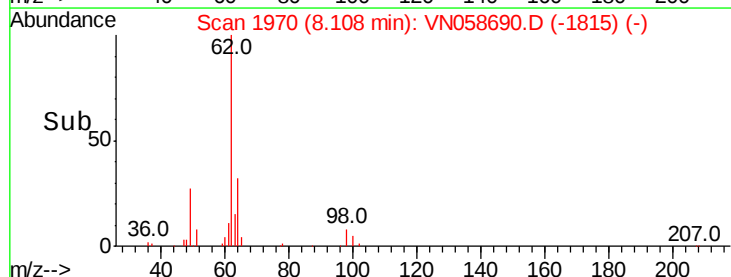
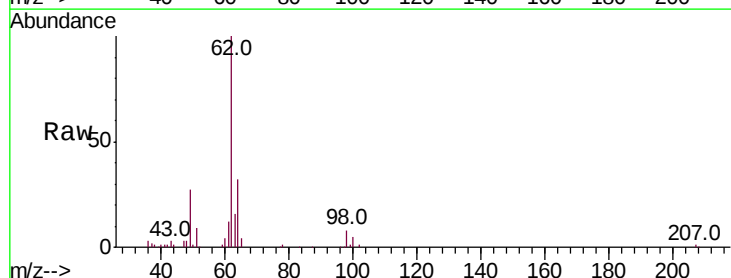
Instrument :  
MSVOA\_N  
ClientSampleId :

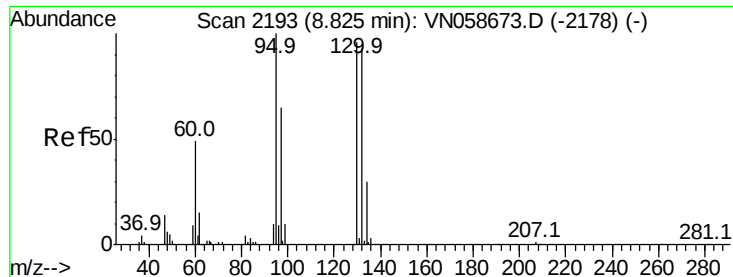
Tot Ion: 41 Resp: 242245  
Ion Ratio Lower Upper  
41 100  
39 47.2 25.8 77.4  
67 4.4 23.0 69.0#  
52 2.2 10.1 30.1#



#36  
1,2-Dichloroethane  
Concen: 21.773 ug/l  
RT: 8.11 min Scan# 1970  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 62 Resp: 173550  
Ion Ratio Lower Upper  
62 100  
98 7.5 6.4 9.6





#37

Trichloroethene

Concen: 21.477 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

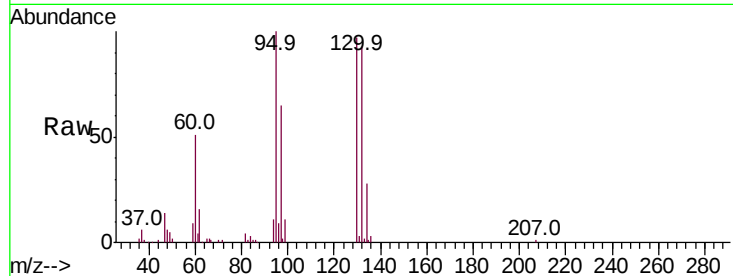
ClientSampleId :

Tot Ion:130 Resp: 109998

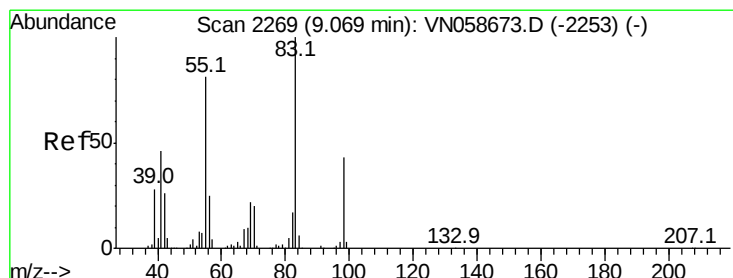
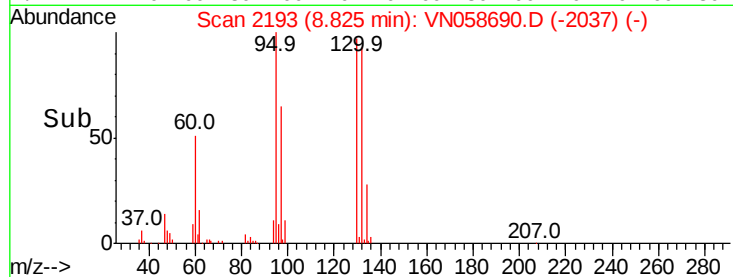
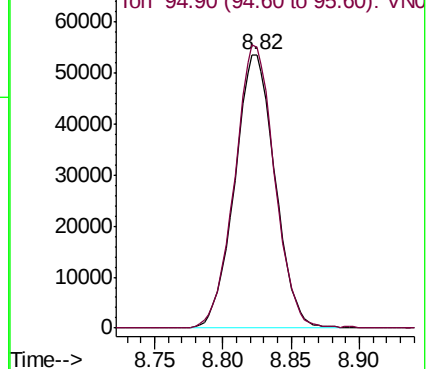
Ion Ratio Lower Upper

130 100

95 102.5 83.2 124.8



Abundance Ion 129.90 (129.60 to 130.60): V



#38

Methylcyclohexane

Concen: 20.438 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

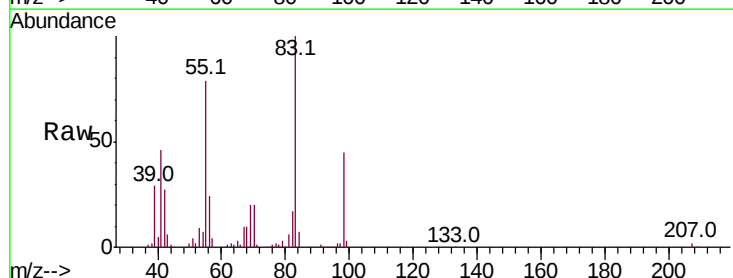
Tgt Ion: 83 Resp: 167799

Ion Ratio Lower Upper

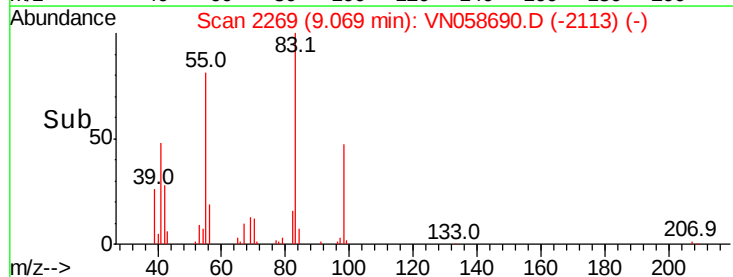
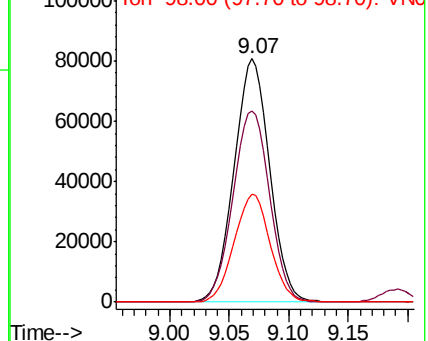
83 100

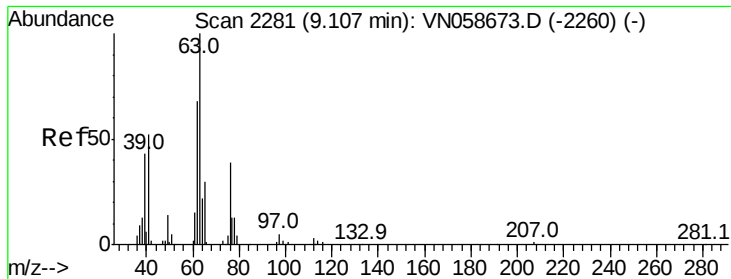
55 80.8 40.4 121.1

98 44.7 21.6 65.0



Abundance Ion 83.00 (82.70 to 83.70): VN

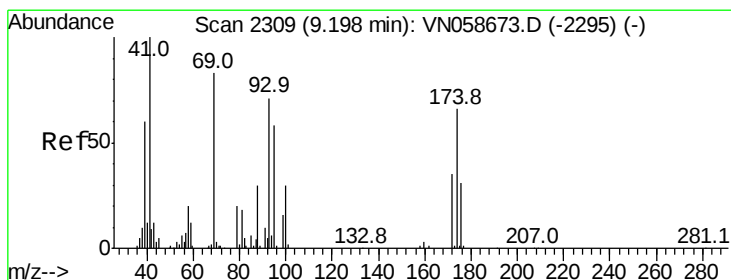
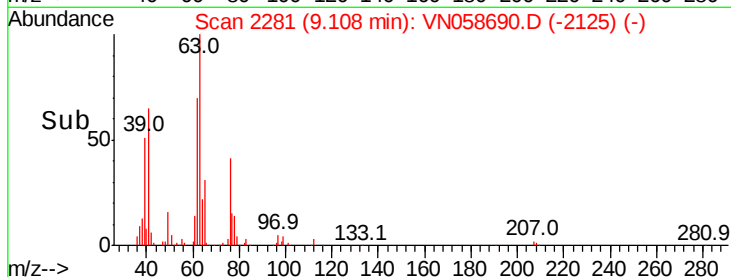
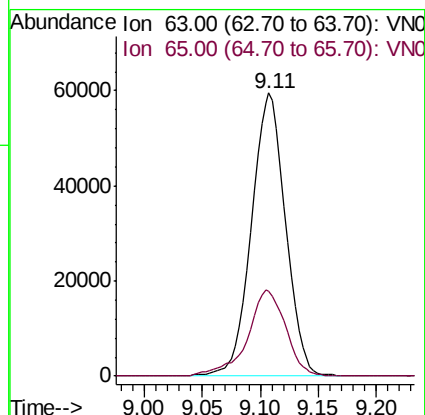
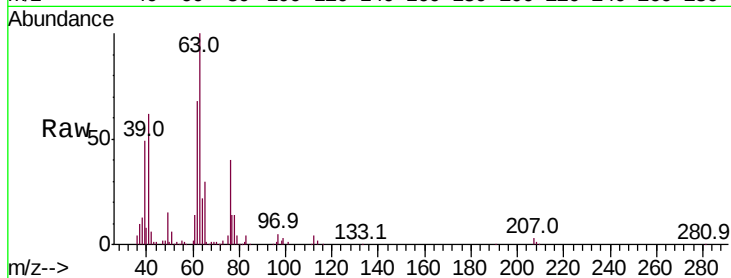




#39  
 1,2-Dichloropropane  
 Concen: 21.397 ug/l  
 RT: 9.11 min Scan# 2281  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

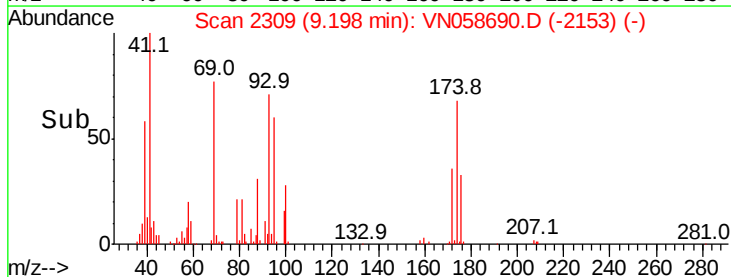
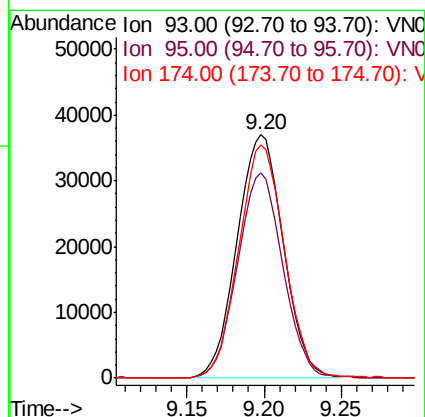
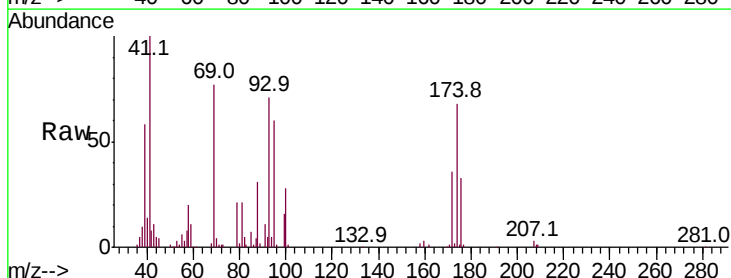
Instrument :  
 MSVOA\_N  
 ClientSampleId :

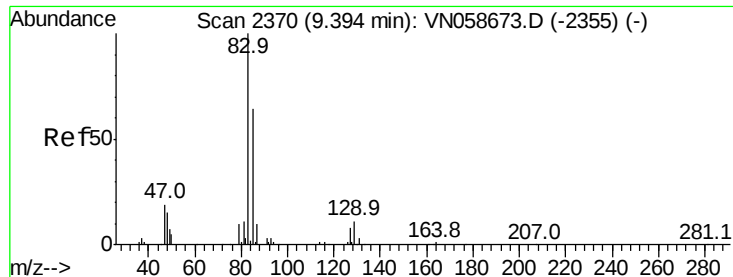
Tot Ion: 63 Resp: 121903  
 Ion Ratio Lower Upper  
 63 100  
 65 30.0 23.8 35.6



#40  
 Dibromomethane  
 Concen: 21.427 ug/l  
 RT: 9.20 min Scan# 2309  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

Tgt Ion: 93 Resp: 77065  
 Ion Ratio Lower Upper  
 93 100  
 95 82.6 0.0 167.6  
 174 94.4 0.0 187.2





#41

Bromodichloromethane

Concen: 21.512 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampleId :

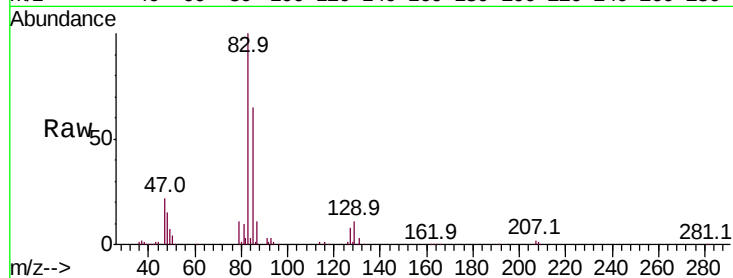
Tot Ion: 83 Resp: 158060

Ion Ratio Lower Upper

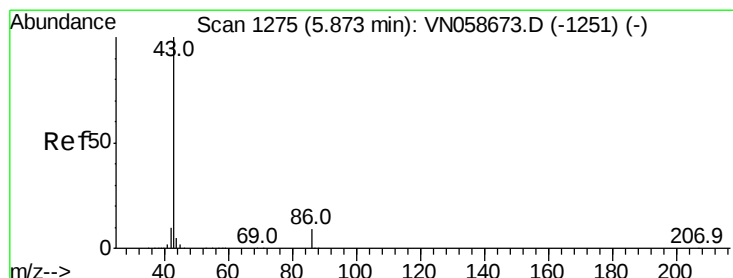
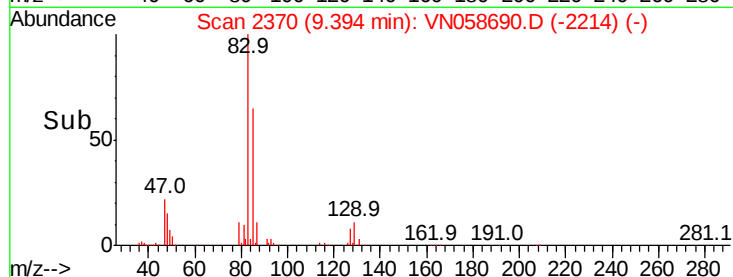
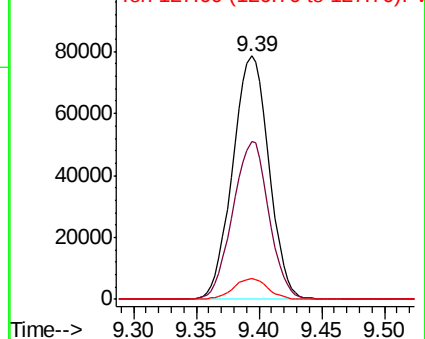
83 100

85 64.9 51.0 76.4

127 8.3 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0  
Ion 85.00 (84.70 to 85.70): VN0  
Ion 127.00 (126.70 to 127.70): VN0



#42

Vinyl Acetate

Concen: 109.814 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VN058690.D

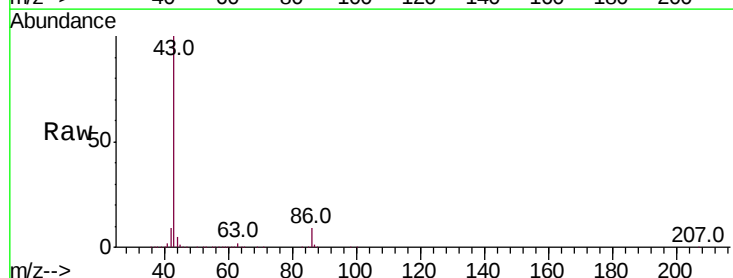
Acq: 11 Oct 2019 10:03

Tgt Ion: 43 Resp: 1538993

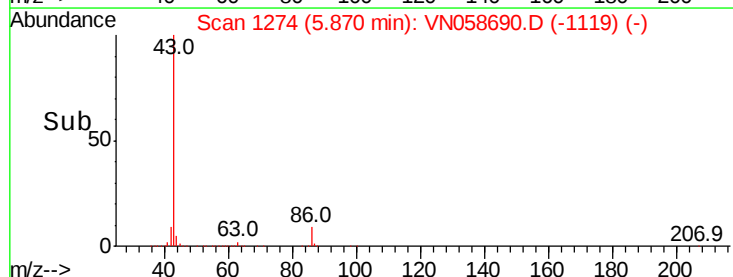
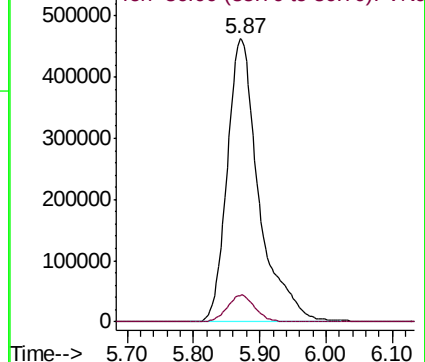
Ion Ratio Lower Upper

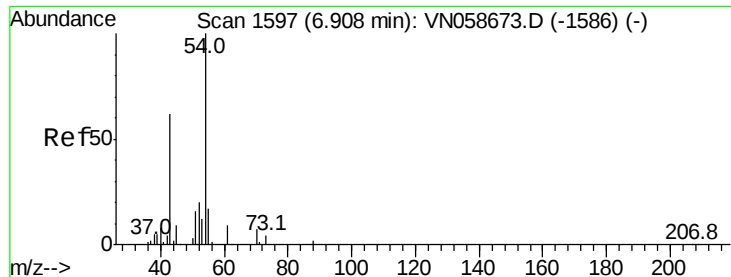
43 100

86 8.3 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VN0  
Ion 86.00 (85.70 to 86.70): VN0

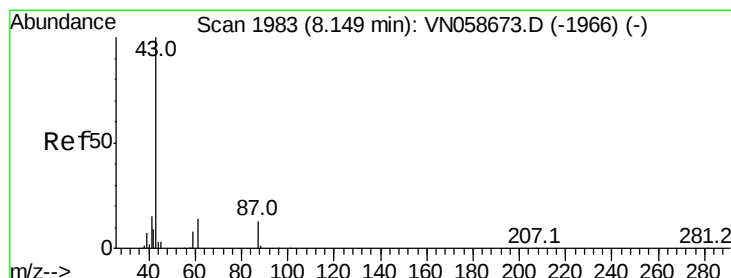
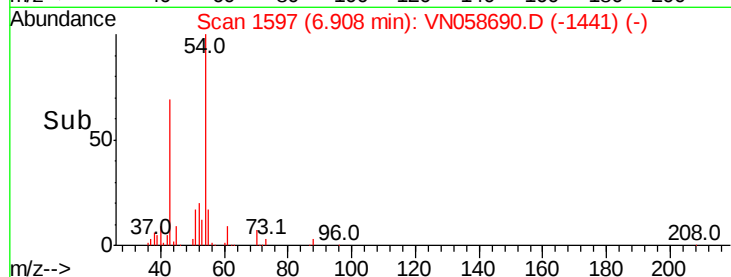
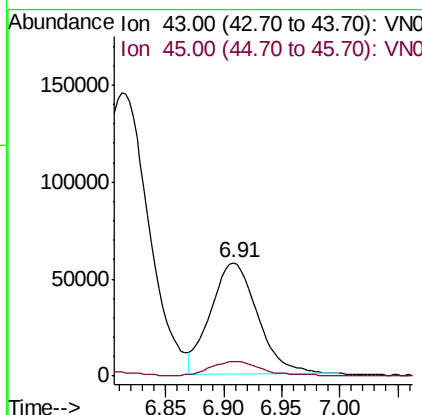
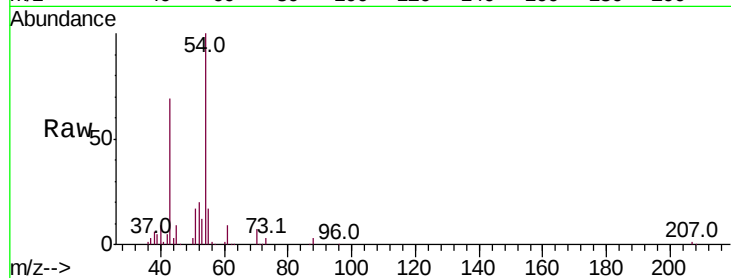




#43  
Ethyl Acetate  
Concen: 20.794 ug/l  
RT: 6.91 min Scan# 1597  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

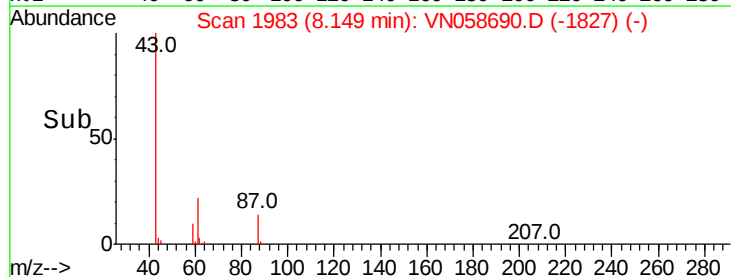
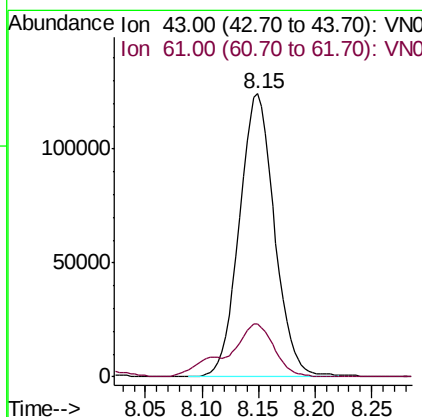
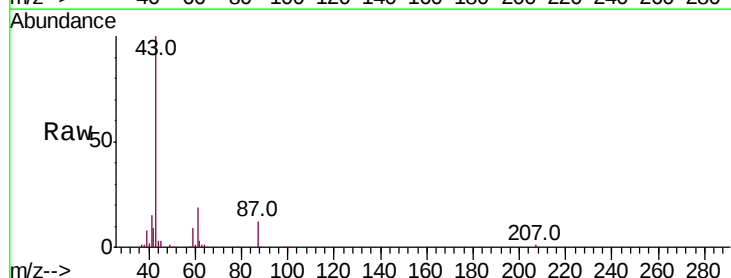
Instrument :  
MSVOA\_N  
ClientSampled :

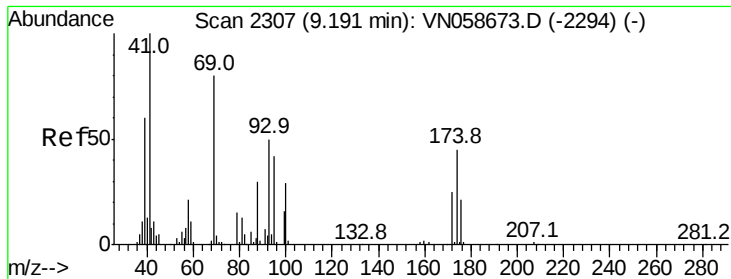
Tot Ion: 43 Resp: 163320  
Ion Ratio Lower Upper  
43 100  
45 13.0 9.7 14.5



#44  
Isopropyl Acetate  
Concen: 21.072 ug/l  
RT: 8.15 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 43 Resp: 268088  
Ion Ratio Lower Upper  
43 100  
61 19.1 19.9 29.9#





#45

1,4-Dioxane

Concen: 407.429 ug/l

RT: 9.19 min Scan# 2306

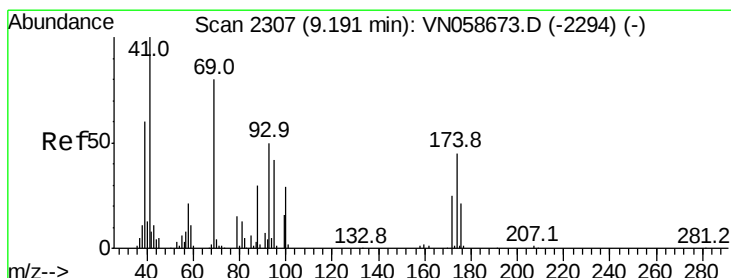
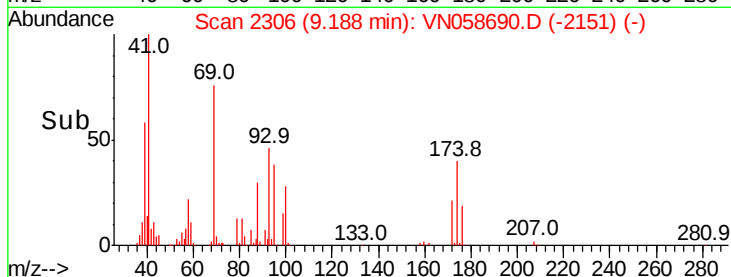
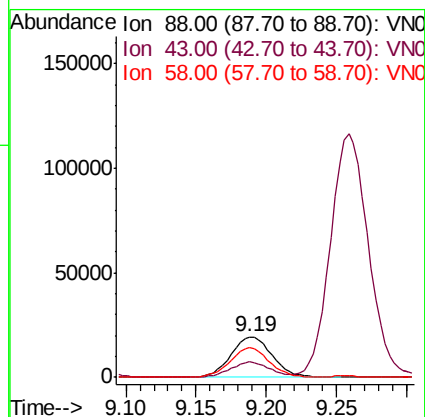
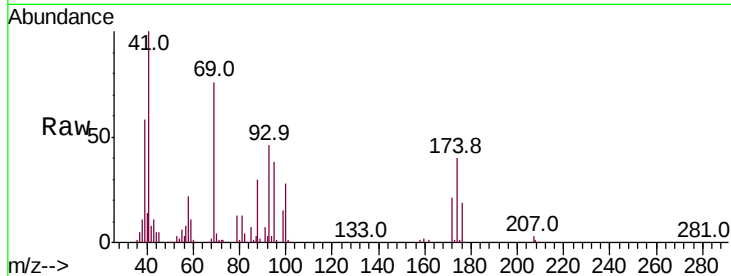
Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 88    | Resp: | 39802 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 36.9  | 29.8  | 44.8  |
| 58       | 70.0  | 58.2  | 87.4  |



#46

Methyl methacrylate

Concen: 20.690 ug/l

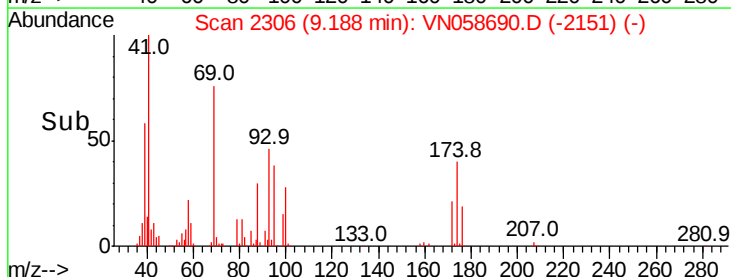
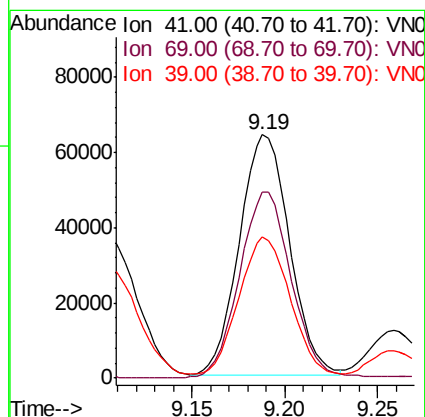
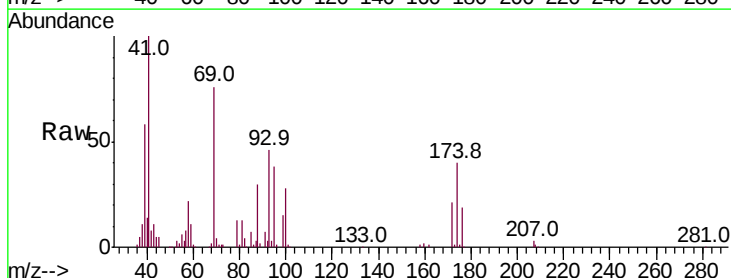
RT: 9.19 min Scan# 2306

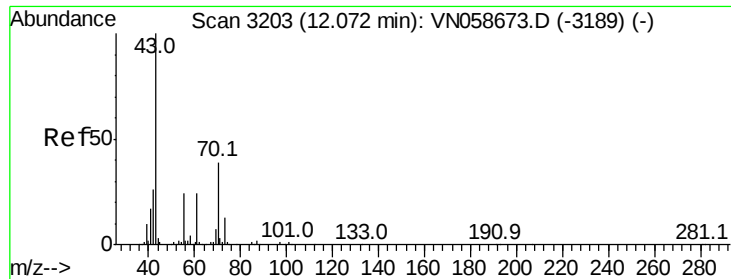
Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 120843 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 76.9  | 40.2  | 120.5  |
| 39       | 57.4  | 29.9  | 89.8   |

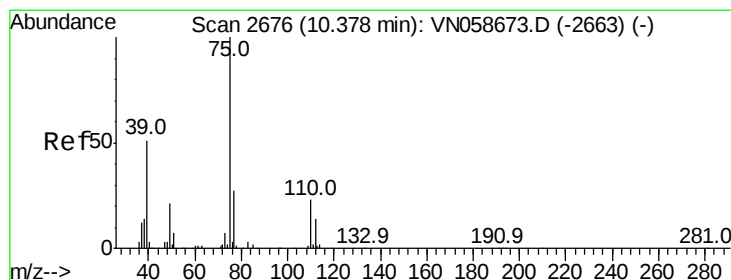
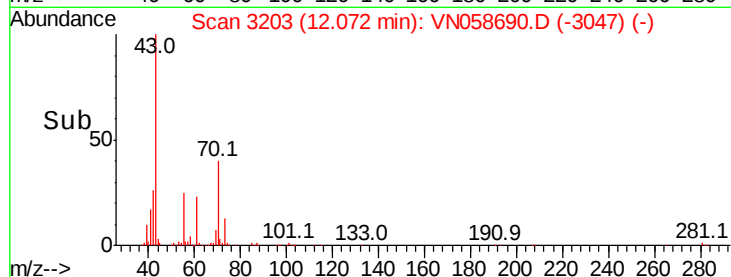
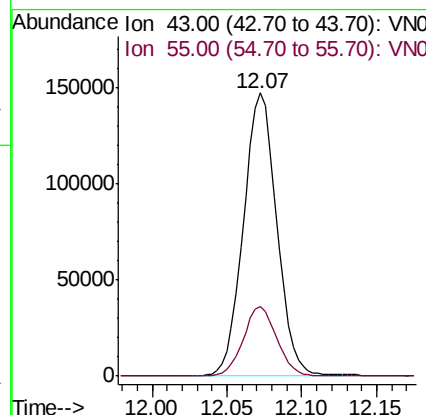
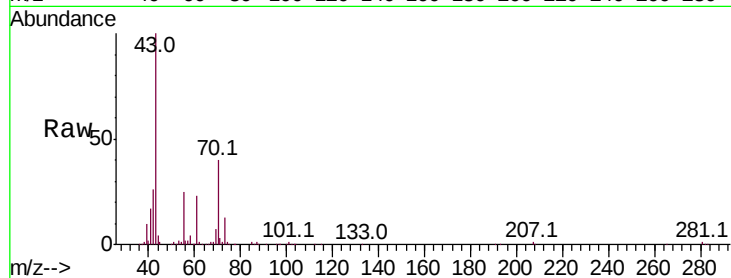




#47  
 n-amvl Acetate  
 Concen: 20.202 ug/l  
 RT: 12.07 min Scan# 3203  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

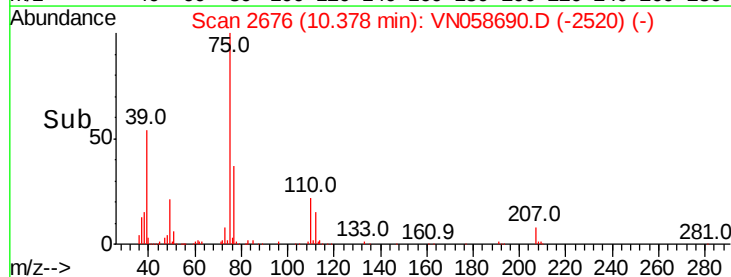
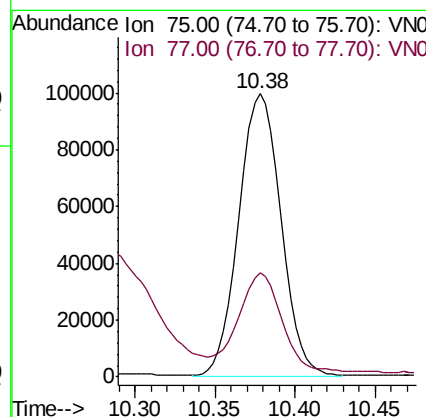
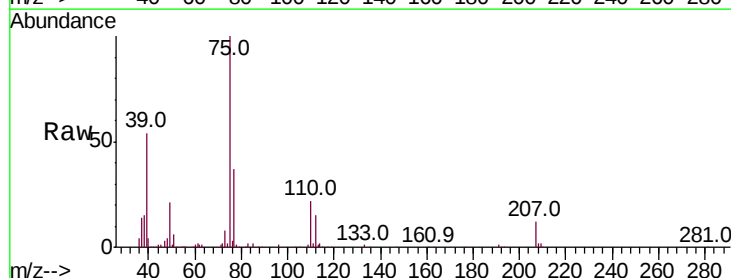
Instrument :  
 MSVOA\_N  
 ClientSampleId :

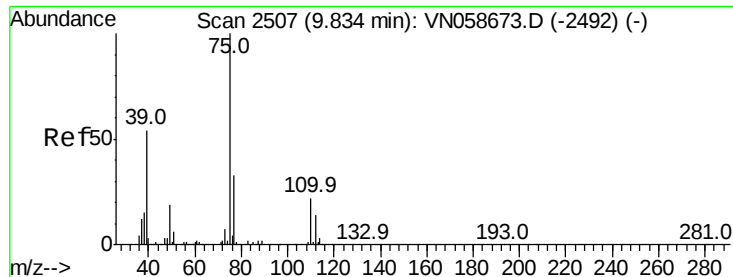
Tot Ion: 43 Resp: 227839  
 Ion Ratio Lower Upper  
 43 100  
 55 24.7 19.6 29.4



#48  
 t-1,3-Dichloropropene  
 Concen: 21.093 ug/l  
 RT: 10.38 min Scan# 2676  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

Tgt Ion: 75 Resp: 179738  
 Ion Ratio Lower Upper  
 75 100  
 77 34.8 27.0 40.4



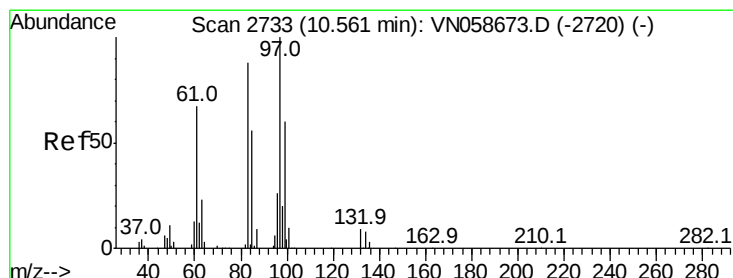
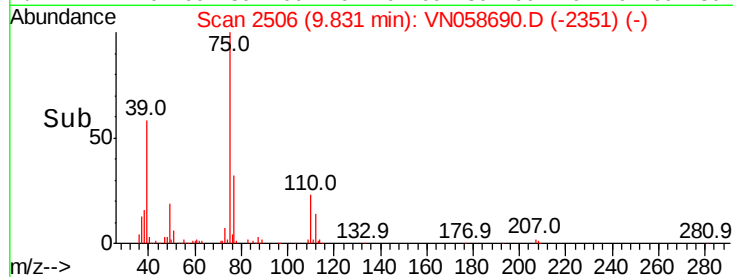
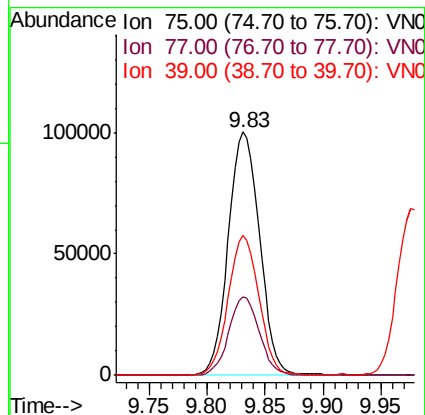
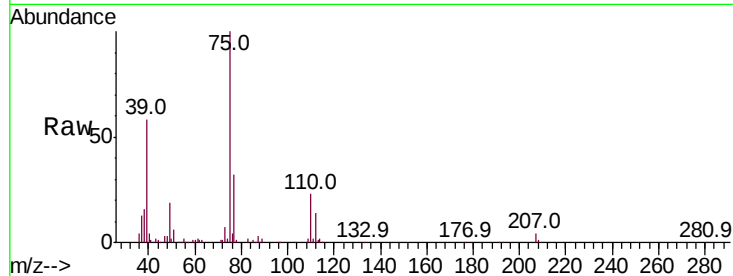


#49

cis-1,3-Dichloropropene  
Concen: 21.057 ug/l  
RT: 9.83 min Scan# 2506  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampled :

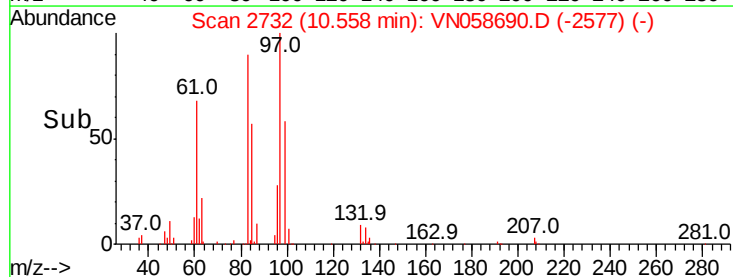
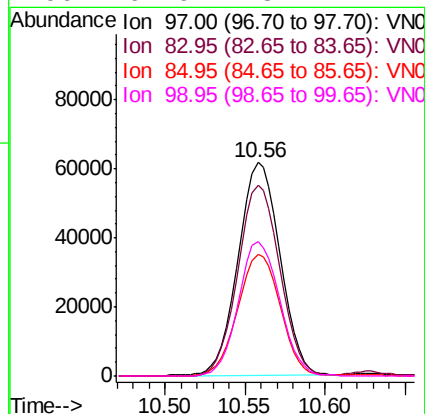
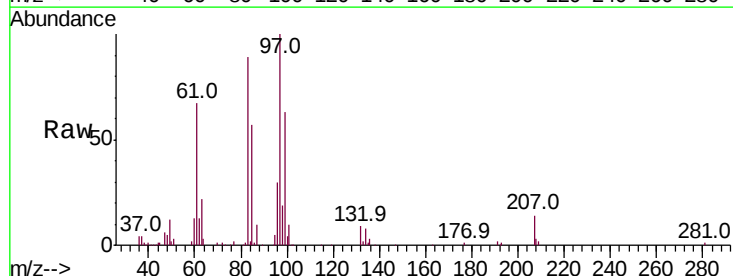
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.2  | 26.1  | 39.1  |
| 39      | 57.3  | 43.1  | 64.7  |

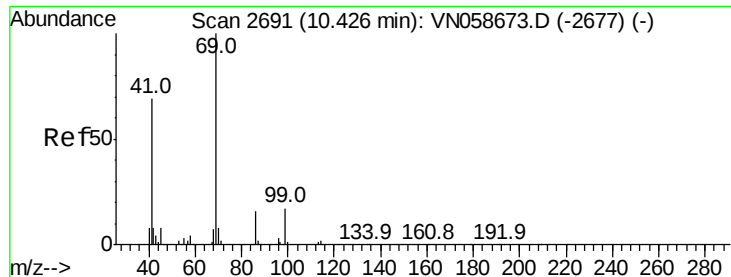


#50

1,1,2-Trichloroethane  
Concen: 21.517 ug/l  
RT: 10.56 min Scan# 2732  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 89.8  | 70.7  | 106.1 |
| 85      | 57.1  | 45.1  | 67.7  |
| 99      | 62.9  | 48.2  | 72.4  |





#51

Ethyl methacrylate

Concen: 20.424 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

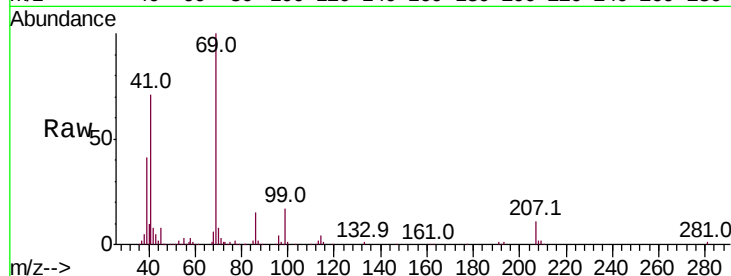
Instrument :

MSVOA\_N

ClientSampleId :

Tot Ion: 69 Resp: 167682

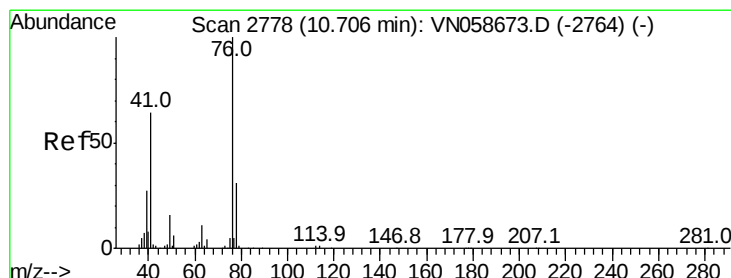
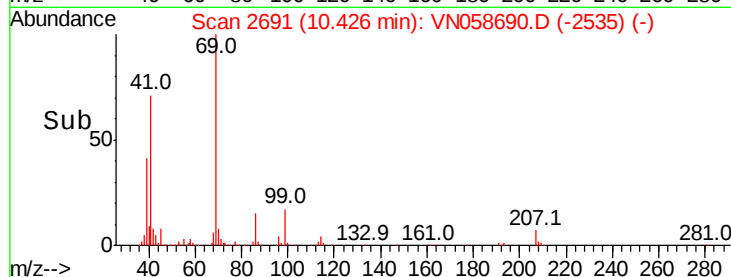
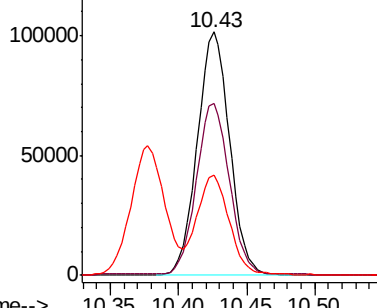
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 70.2  | 34.7  | 104.1 |
| 39  | 40.6  | 20.3  | 60.8  |



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



#52

1,3-Dichloropropane

Concen: 21.053 ug/l

RT: 10.71 min Scan# 2778

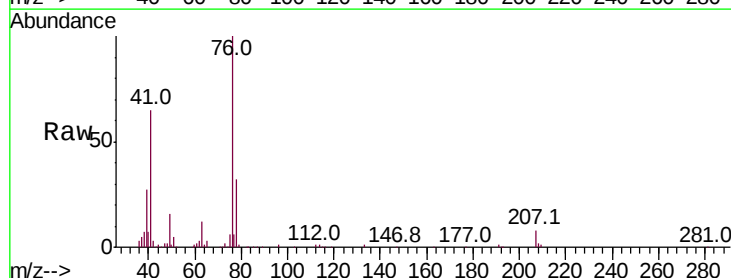
Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

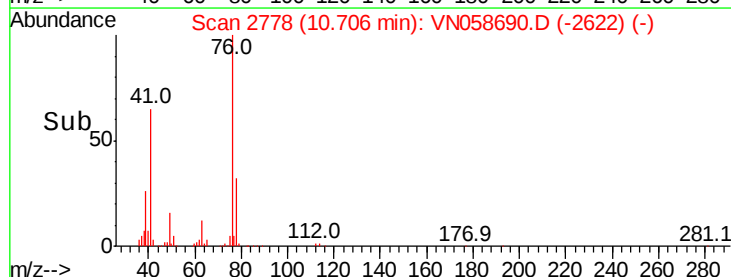
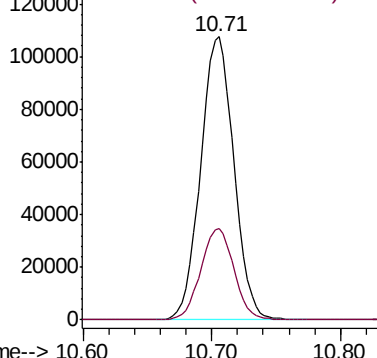
Tgt Ion: 76 Resp: 192506

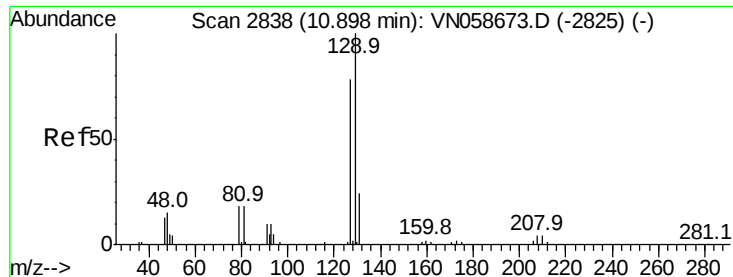
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 32.3  | 0.0   | 63.2  |



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 21.055 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

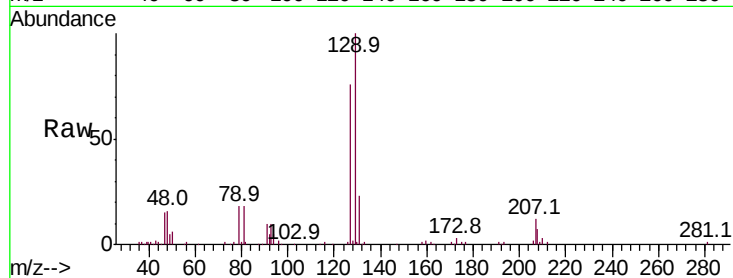
ClientSampleId :

Tot Ion:129 Resp: 116017

Ion Ratio Lower Upper

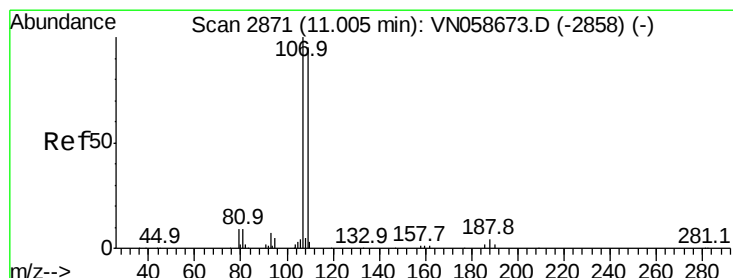
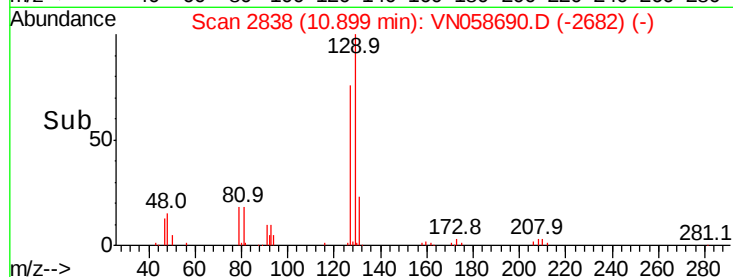
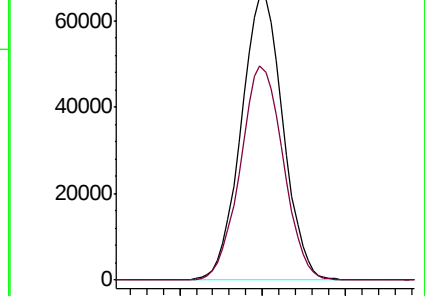
129 100

127 77.0 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 21.013 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058690.D

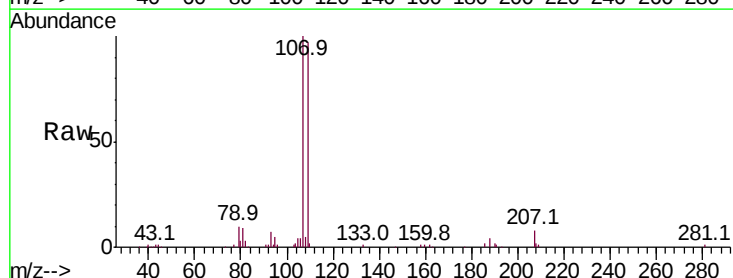
Acq: 11 Oct 2019 10:03

Tgt Ion:107 Resp: 111825

Ion Ratio Lower Upper

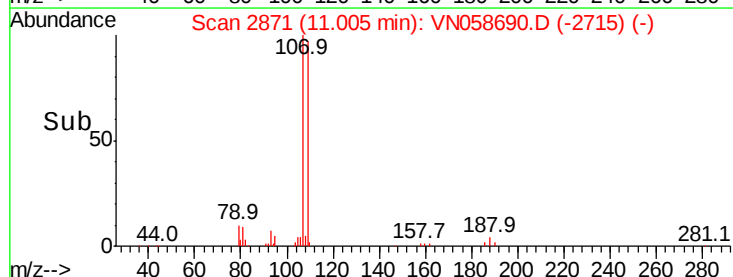
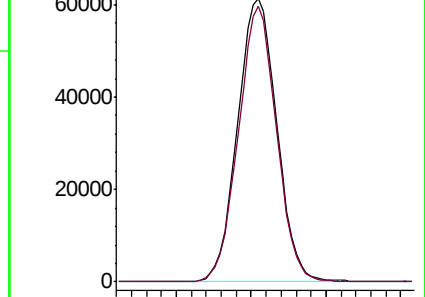
107 100

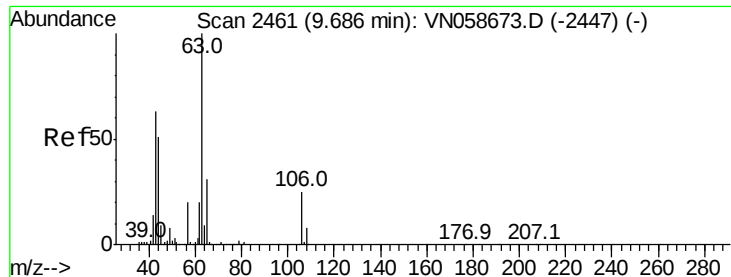
109 94.3 76.2 114.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 108.532 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampleId :

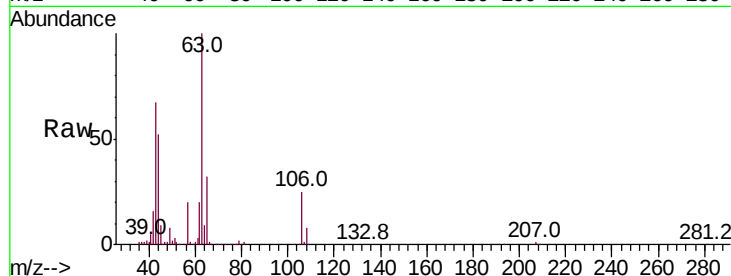
Tot Ion: 63 Resp: 443227

Ion Ratio Lower Upper

63 100

65 31.6 25.3 37.9

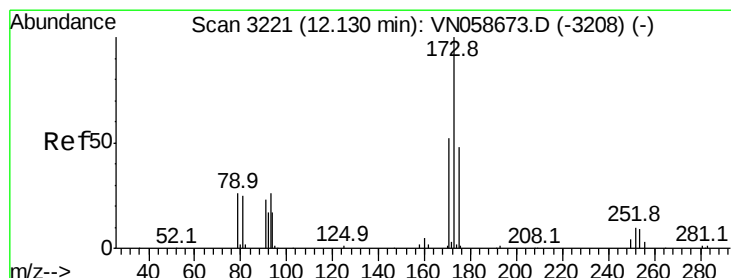
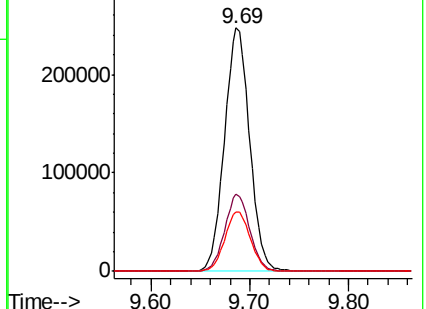
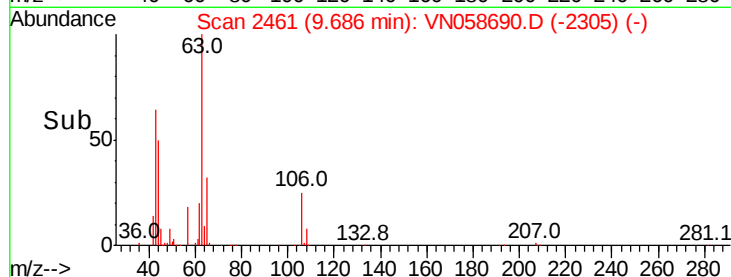
106 24.9 19.8 29.6



Abundance Ion 63.00 (62.70 to 63.70): VN058673.D (-2447) (-)

Ion 65.00 (64.70 to 65.70): VN058673.D (-2447) (-)

Ion 106.00 (105.70 to 106.70): VN058673.D (-2447) (-)



#56

Bromoform

Concen: 20.632 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

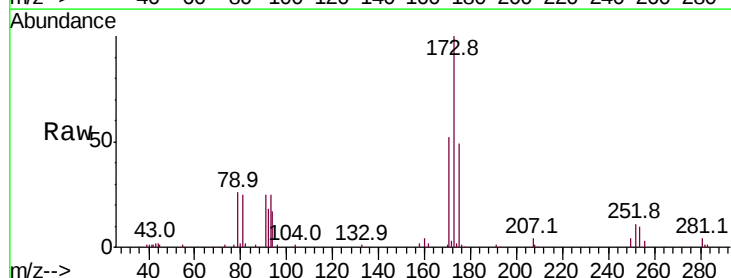
Tgt Ion: 173 Resp: 79196

Ion Ratio Lower Upper

173 100

175 48.6 38.7 58.1

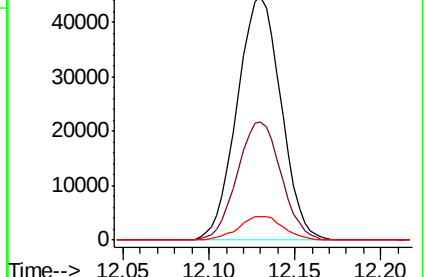
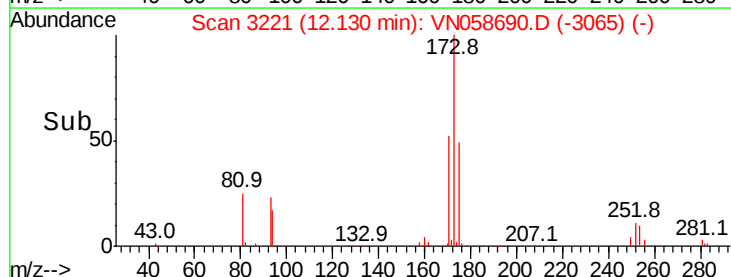
254 9.8 7.4 11.2

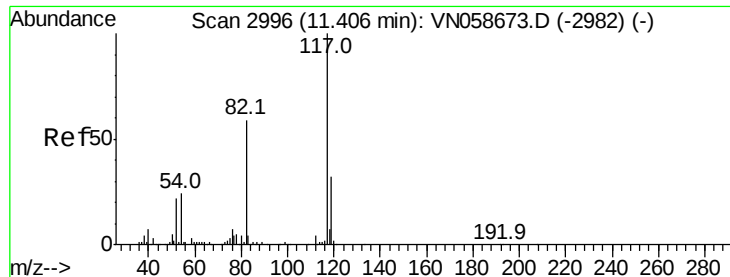


Abundance Ion 173.00 (172.70 to 173.70): VN058673.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN058673.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN058673.D (-3208) (-)

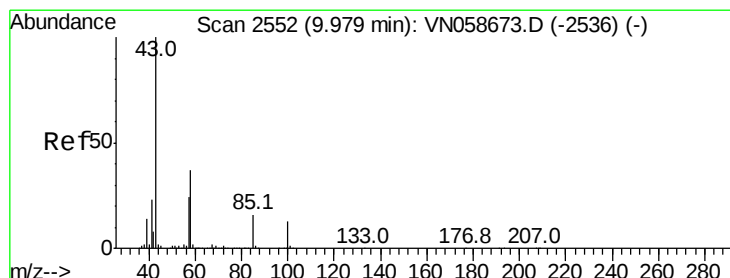
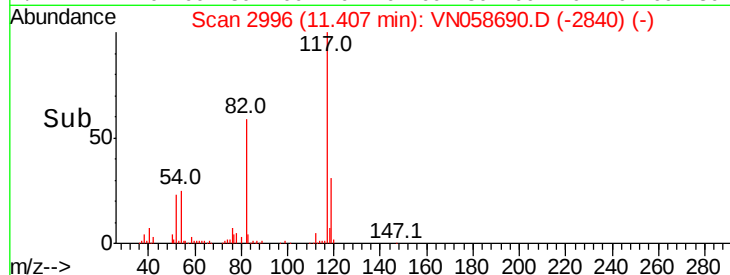
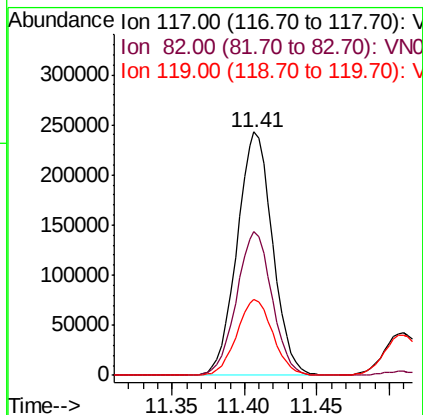
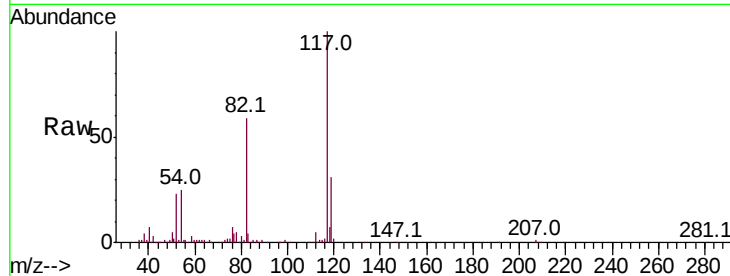




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

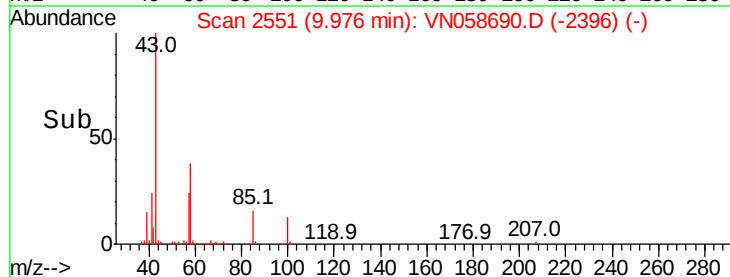
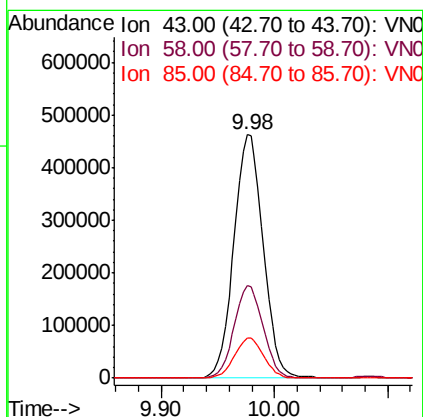
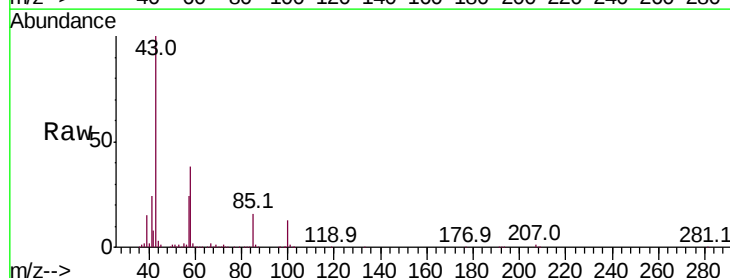
Instrument :  
MSVOA\_N  
ClientSampleId :

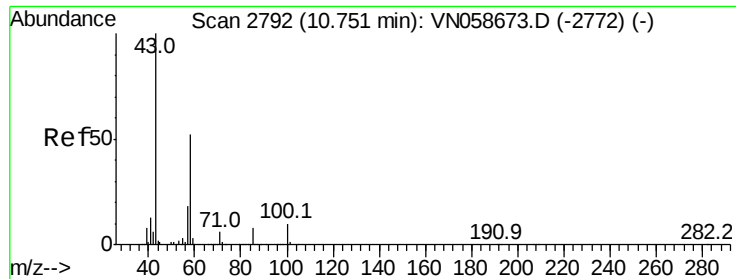
Tot Ion:117 Resp: 412781  
Ion Ratio Lower Upper  
117 100  
82 58.9 46.9 70.3  
119 31.7 25.8 38.6



#58  
4-Methyl-2-Pentanone  
Concen: 111.053 ug/l  
RT: 9.98 min Scan# 2551  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 43 Resp: 836255  
Ion Ratio Lower Upper  
43 100  
58 37.5 30.1 45.1  
85 16.4 13.2 19.8

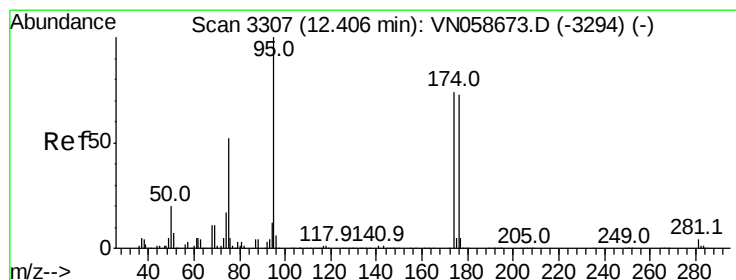
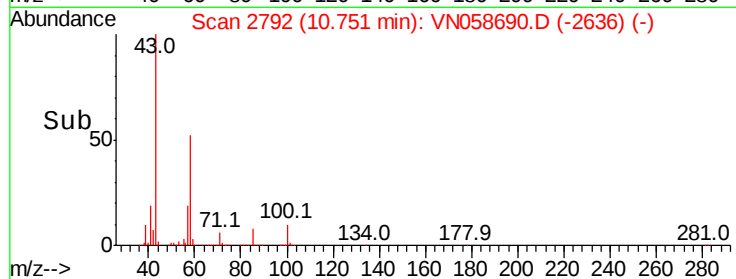
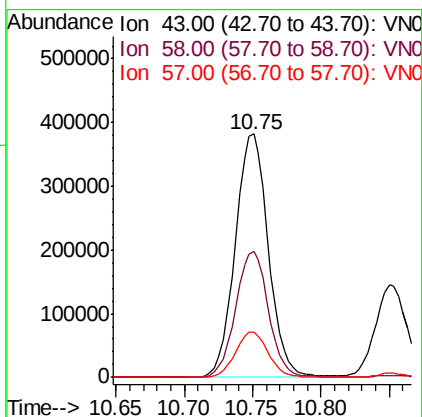
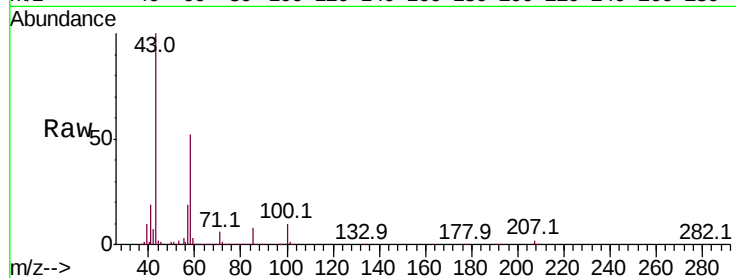




#59  
2-Hexanone  
Concen: 108.721 ug/l  
RT: 10.75 min Scan# 2792  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

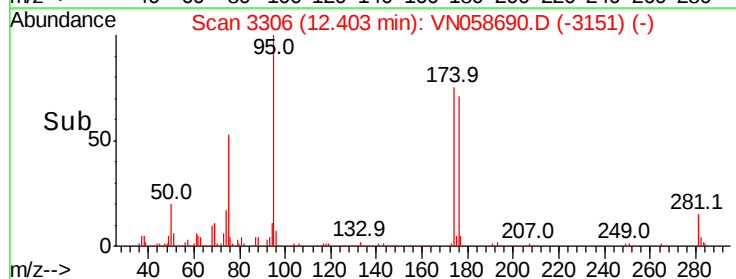
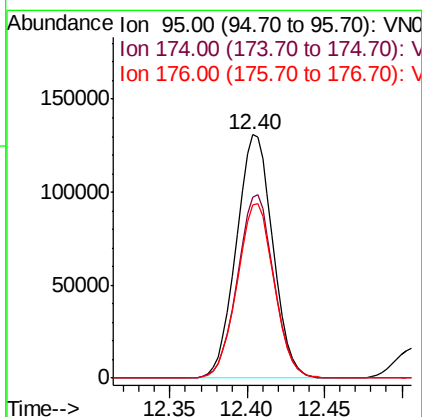
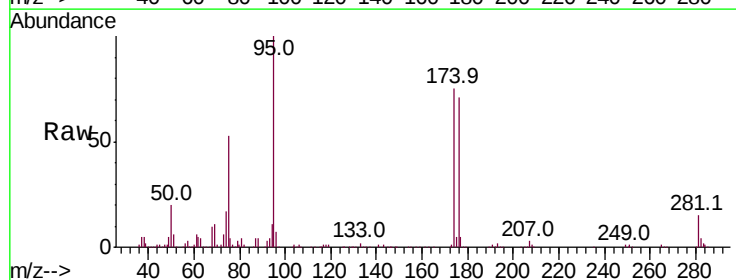
Instrument :  
MSVOA\_N  
ClientSampled :

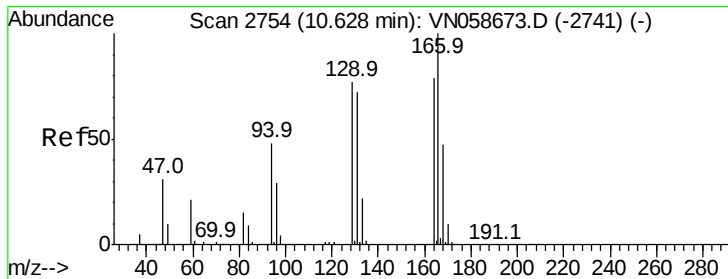
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 51.6  | 41.4  | 62.0  |
| 57      | 18.5  | 14.7  | 22.1  |



#60  
4-Bromofluorobenzene  
Concen: 29.749 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 75.2  | 59.9  | 89.9  |
| 176     | 72.4  | 58.3  | 87.5  |

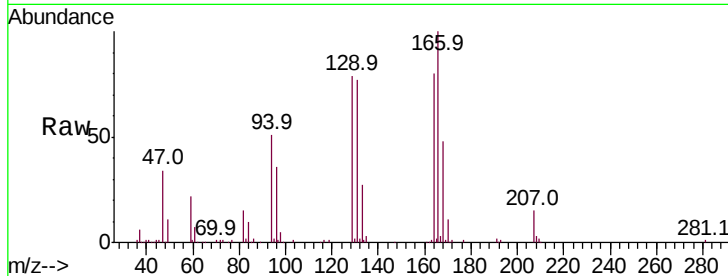




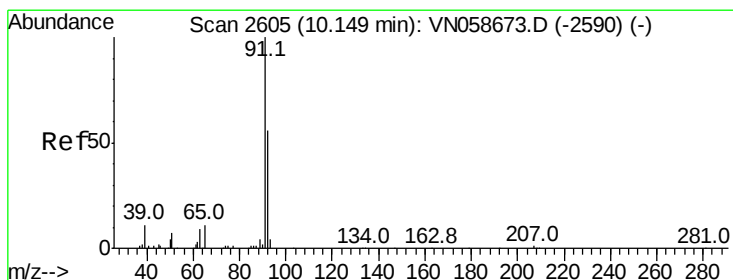
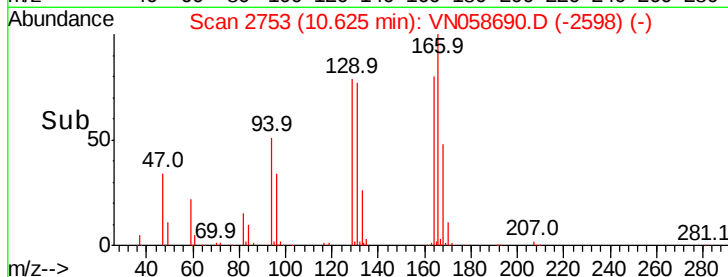
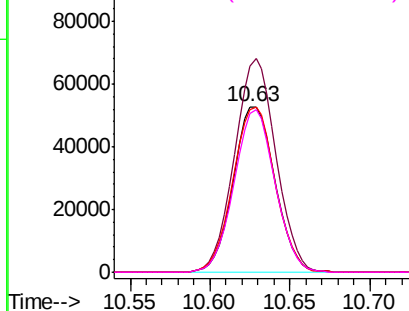
#61  
Tetrachloroethene  
Concen: 20.981 ug/l  
RT: 10.63 min Scan# 2753  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Instrument :  
MSVOA\_N  
ClientSampleId :

Tot Ion:164 Resp: 93589  
Ion Ratio Lower Upper  
164 100  
166 124.4 101.4 152.2  
129 98.2 78.1 117.1  
131 96.0 73.2 109.8

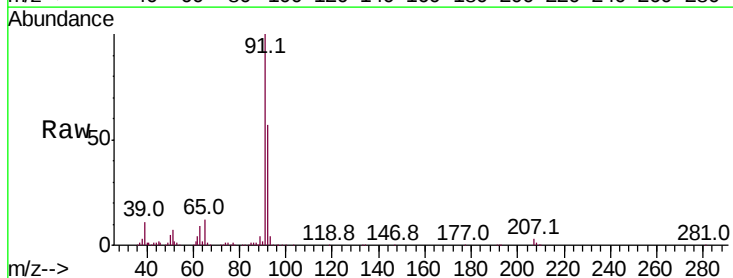


Abundance Ion 163.85 (163.55 to 164.55): V  
Ion 165.80 (165.50 to 166.50): V  
Ion 128.90 (128.60 to 129.60): V  
Ion 130.90 (130.60 to 131.60): V

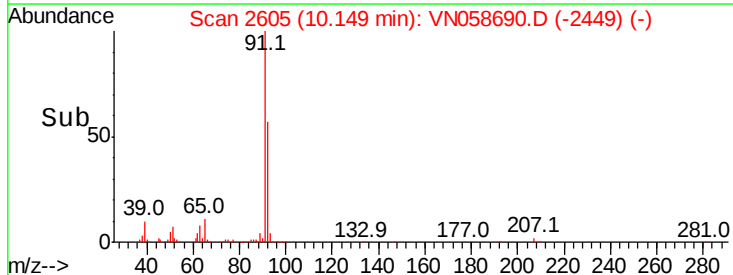
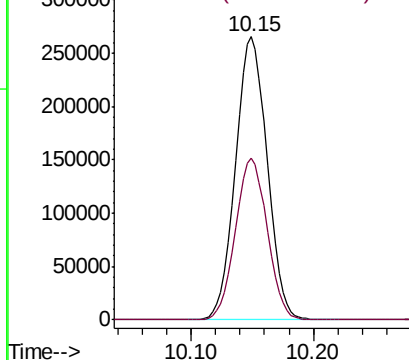


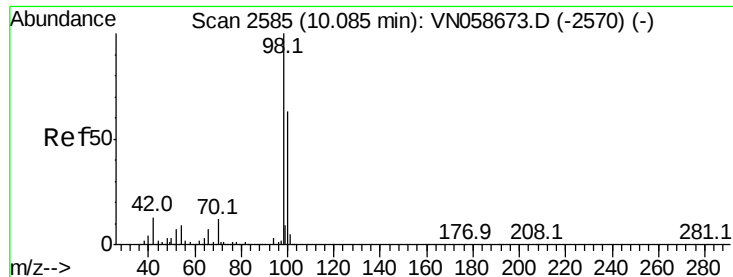
#62  
Toluene  
Concen: 21.446 ug/l  
RT: 10.15 min Scan# 2605  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 91 Resp: 476187  
Ion Ratio Lower Upper  
91 100  
92 57.3 45.4 68.2



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





#63

Toluene-d8

Concen: 30.390 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

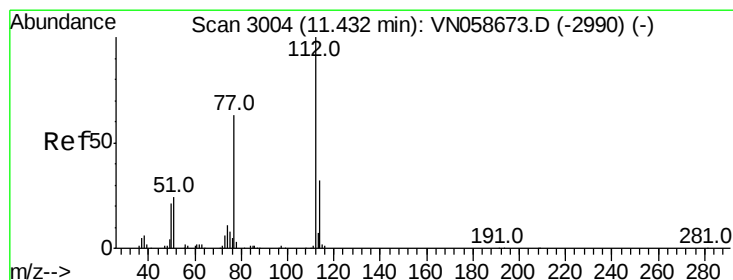
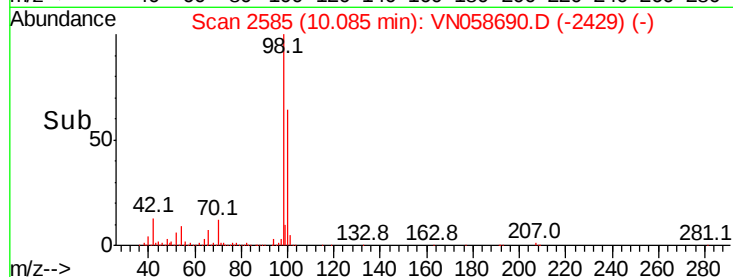
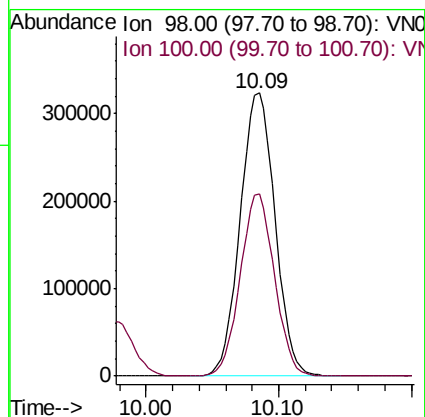
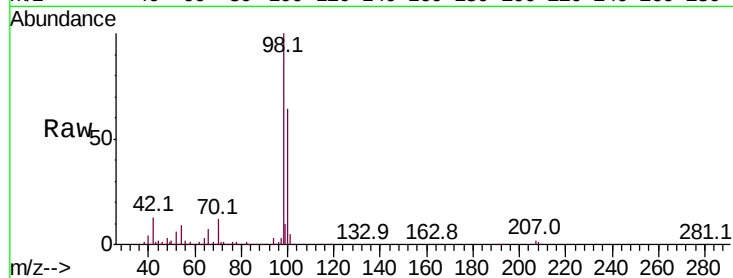
ClientSampled :

Tot Ion: 98 Resp: 592300

Ion Ratio Lower Upper

98 100

100 63.1 50.6 75.8



#64

Chlorobenzene

Concen: 21.146 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN058690.D

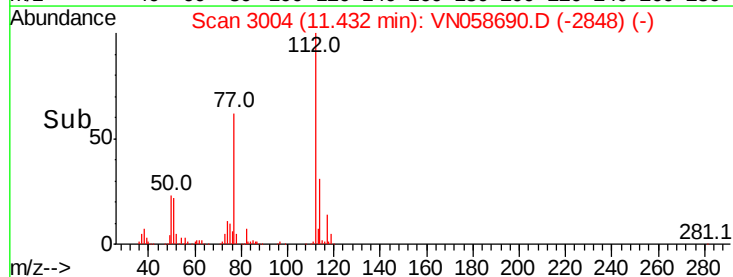
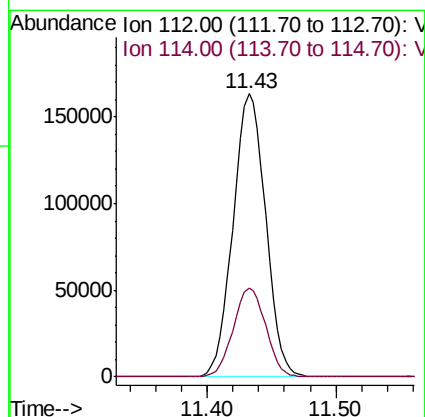
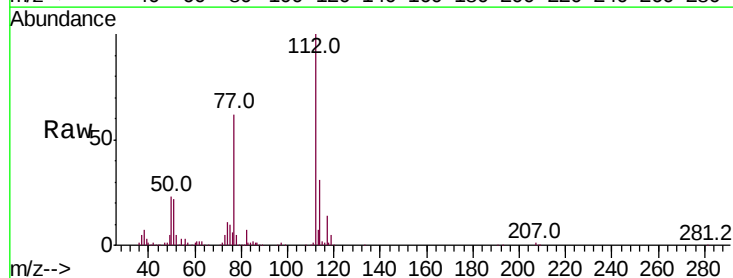
Acq: 11 Oct 2019 10:03

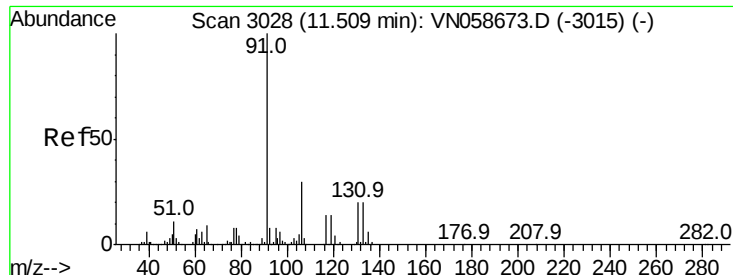
Tgt Ion: 112 Resp: 287057

Ion Ratio Lower Upper

112 100

114 31.4 25.7 38.5





#65

1,1,1,2-Tetrachloroethane

Concen: 21.287 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058690.D

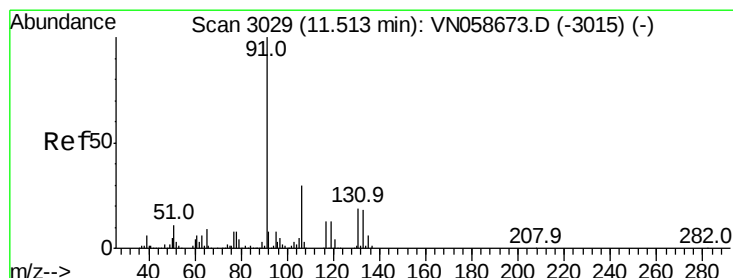
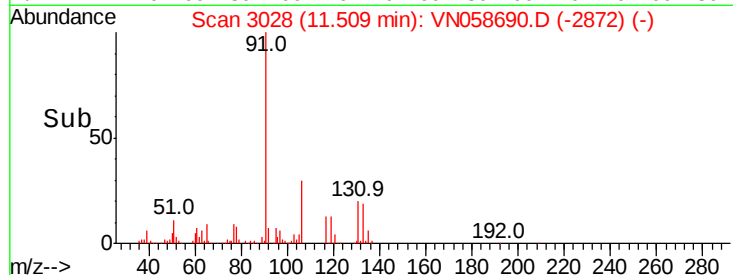
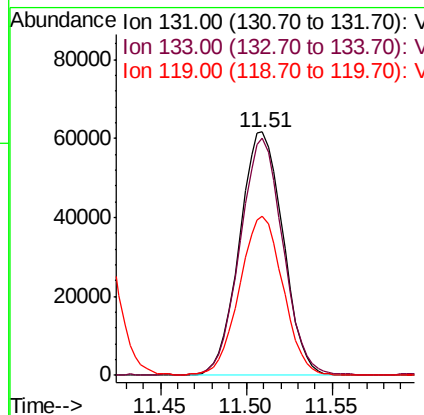
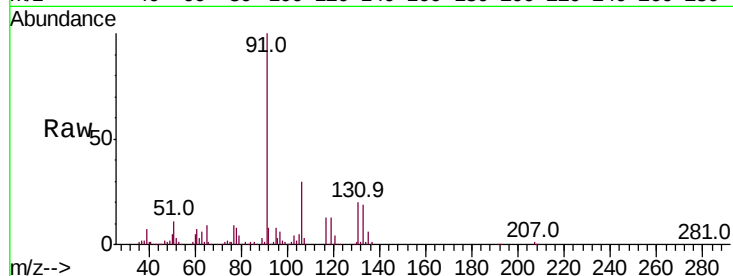
Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 131   | Resp: | 108353 |
| Ion      | Ratio | Lower | Upper  |
| 131      | 100   |       |        |
| 133      | 95.3  | 0.0   | 194.0  |
| 119      | 65.4  | 0.0   | 136.8  |



#66

Ethyl Benzene

Concen: 21.177 ug/l

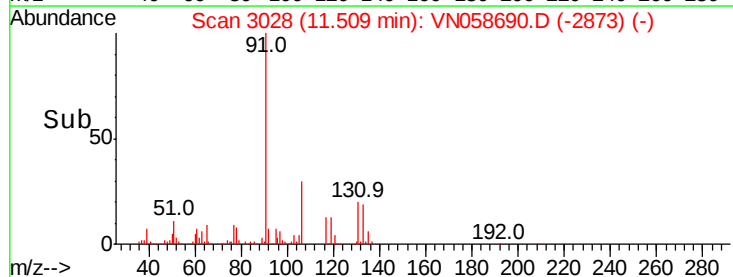
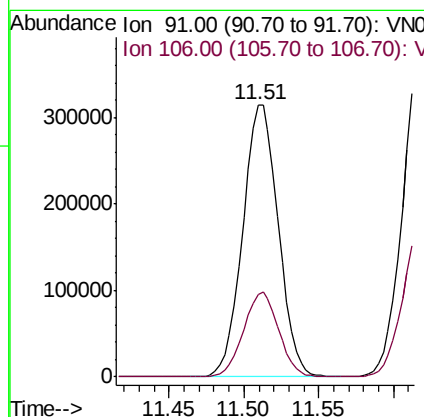
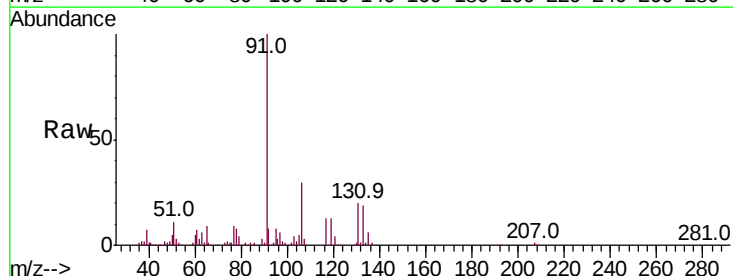
RT: 11.51 min Scan# 3028

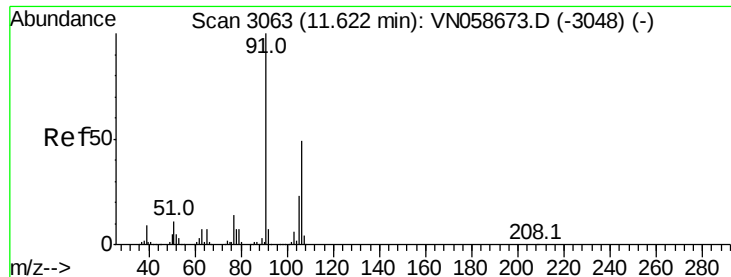
Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 520670 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 106      | 30.3  | 24.2  | 36.4   |





#67

m/p-Xylenes

Concen: 41.725 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

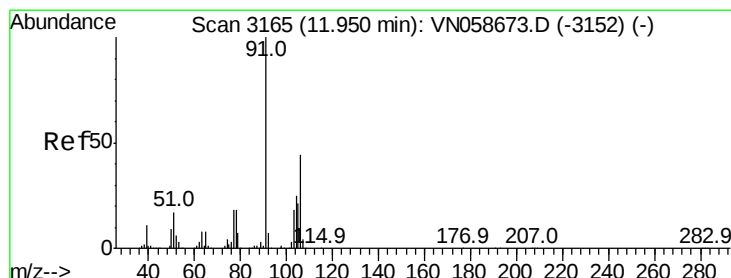
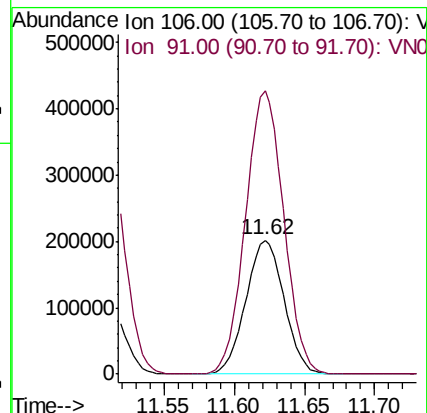
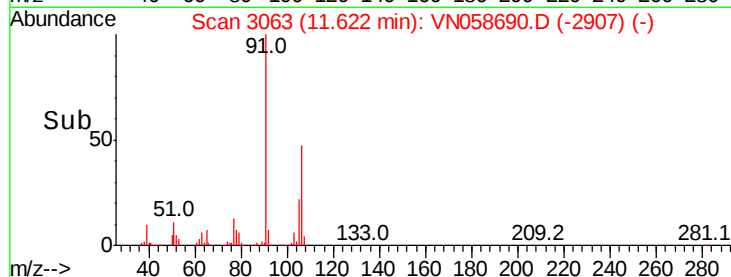
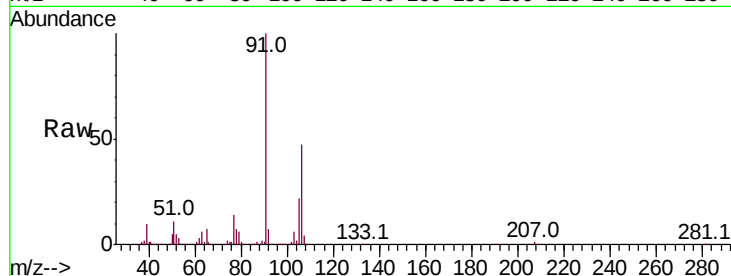
ClientSampled :

Tot Ion:106 Resp: 383262

Ion Ratio Lower Upper

106 100

91 211.6 165.6 248.4



#68

o-Xylene

Concen: 20.952 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN058690.D

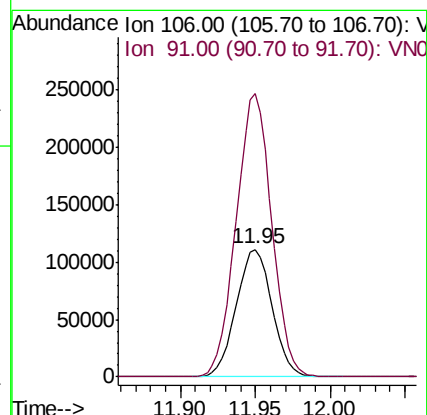
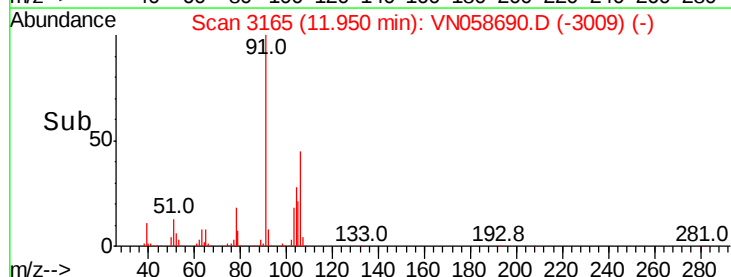
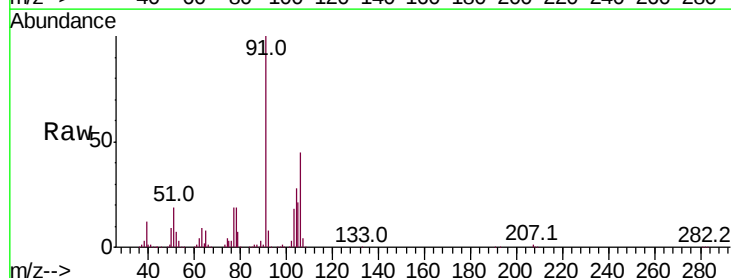
Acq: 11 Oct 2019 10:03

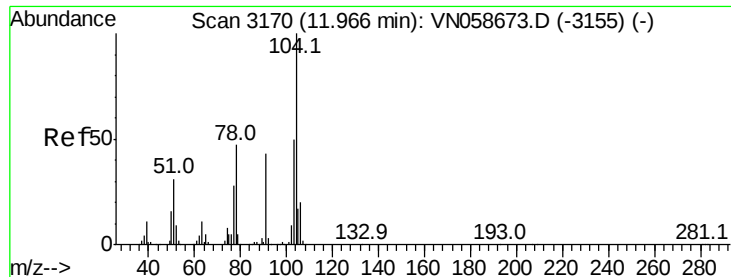
Tgt Ion:106 Resp: 186571

Ion Ratio Lower Upper

106 100

91 219.0 109.8 329.4

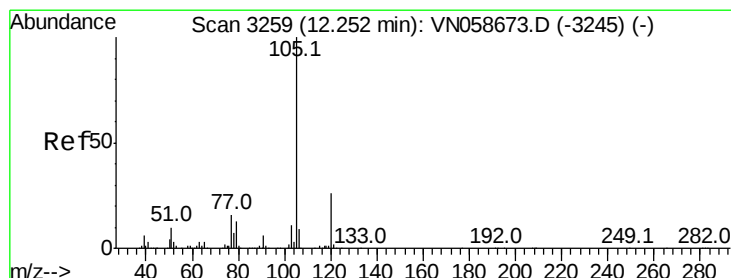
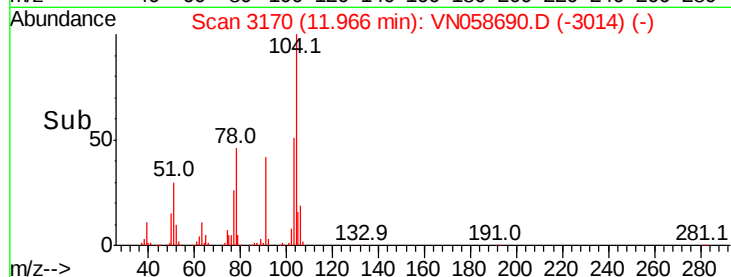
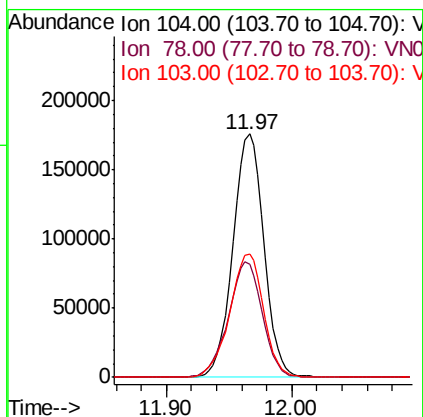
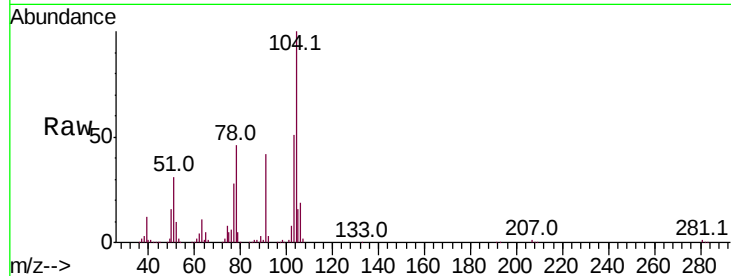




#69  
Stvrene  
Concen: 20.586 ug/l  
RT: 11.97 min Scan# 3170  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

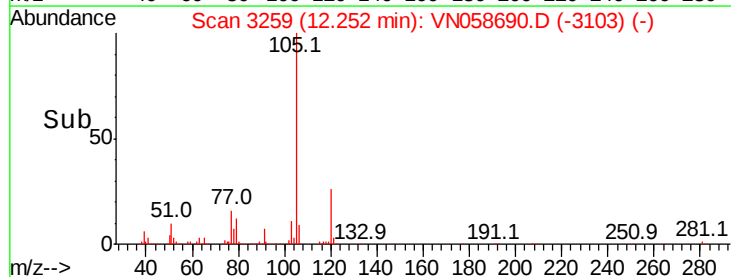
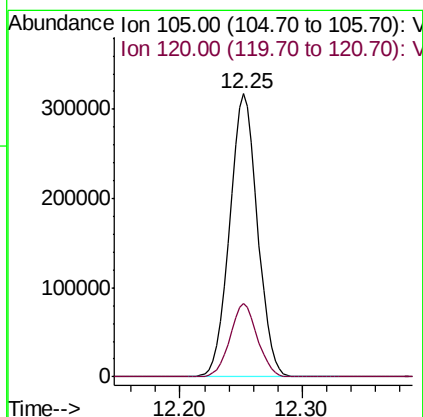
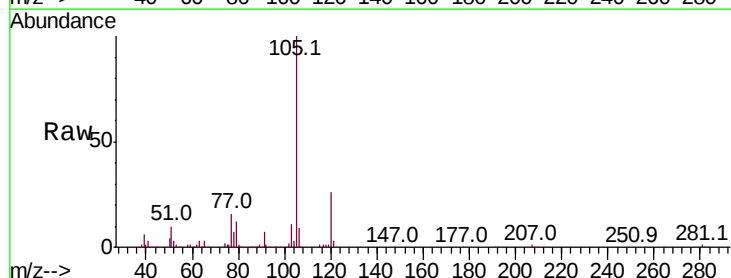
Instrument :  
MSVOA\_N  
ClientSampled :

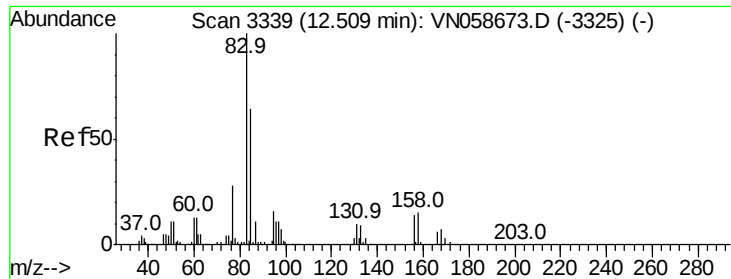
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 51.9  | 42.4  | 63.6  |
| 103     | 55.1  | 44.6  | 66.8  |



#70  
Isopropylbenzene  
Concen: 20.997 ug/l  
RT: 12.25 min Scan# 3259  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.5  | 18.4  | 34.2  |

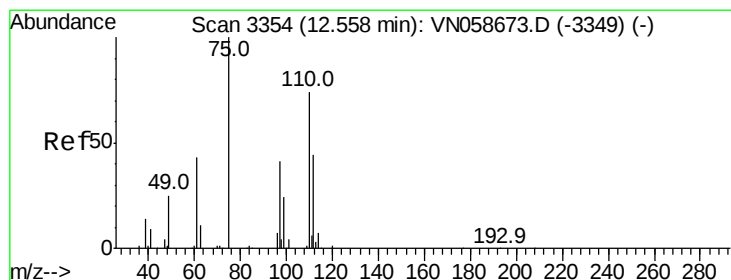
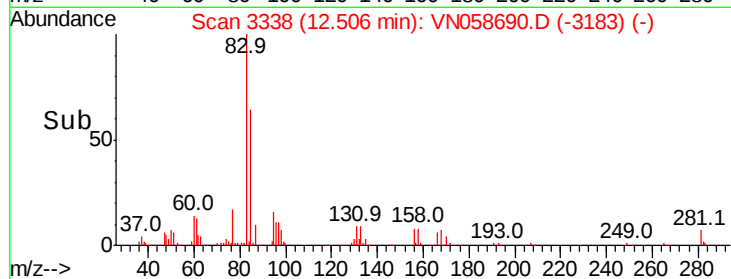
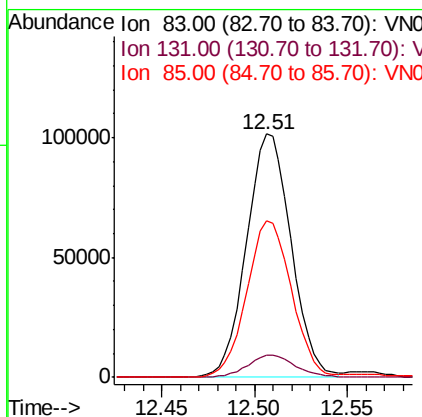
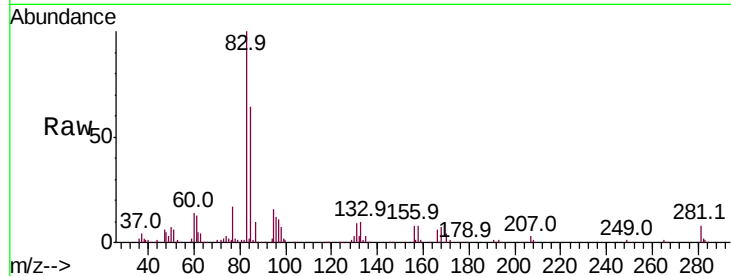




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 20.964 ug/l  
 RT: 12.51 min Scan# 3338  
 Delta R.T. -0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

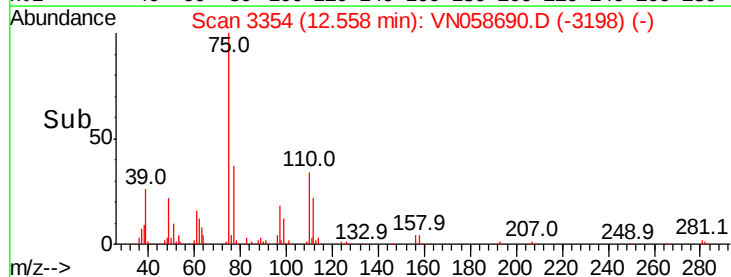
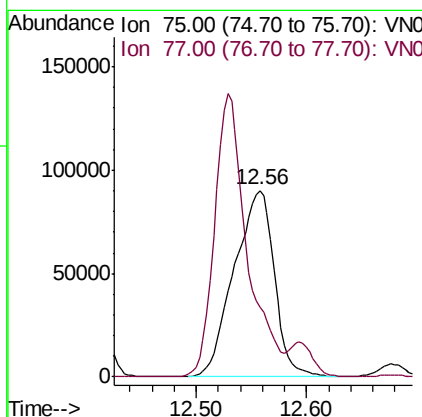
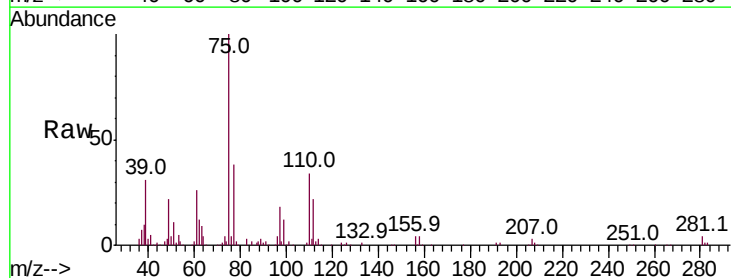
Instrument :  
 MSVOA\_N  
 ClientSampleId :

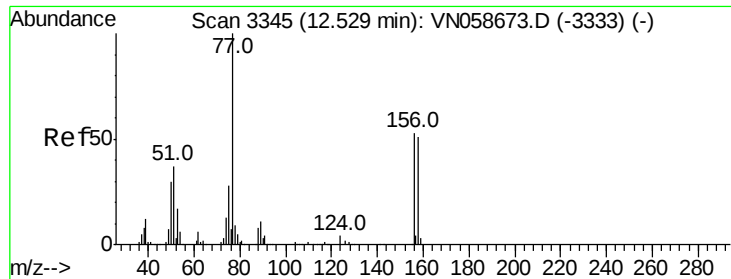
| Tot Ion   | 83    | Resp  | 169670 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 131       | 9.7   | 4.9   | 14.7   |
| 85        | 64.6  | 31.6  | 94.7   |



#72  
 1,2,3-Trichloropropane  
 Concen: 30.837 ug/l  
 RT: 12.56 min Scan# 3354  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

| Tgt Ion   | 75    | Resp  | 226151 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 77        | 123.0 | 0.0   | 359.4  |





#73

Bromobenzene

Concen: 20.699 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

ClientSampleId :

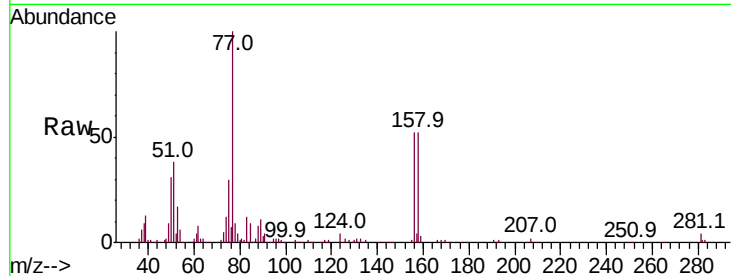
Tot Ion:156 Resp: 120874

Ion Ratio Lower Upper

156 100

77 230.1 0.0 456.0

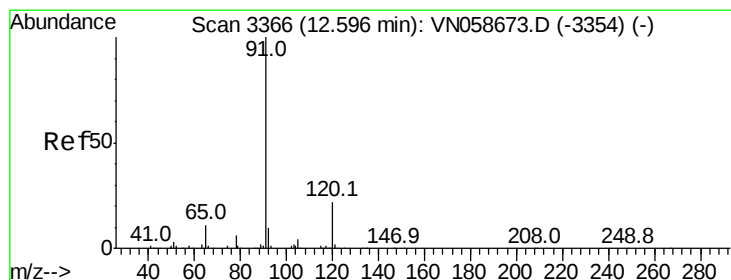
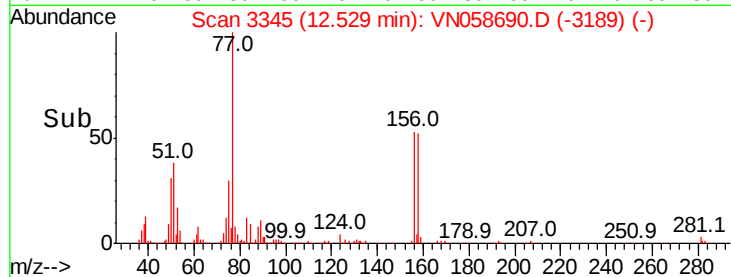
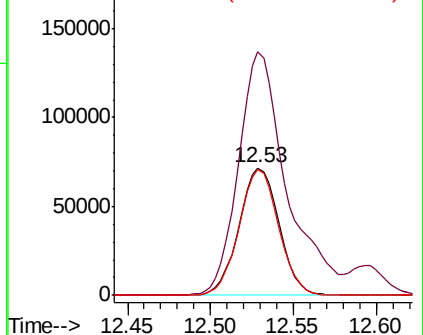
158 97.4 0.0 195.4



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 21.300 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN058690.D

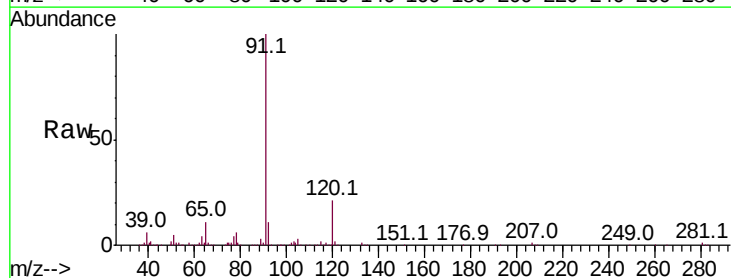
Acq: 11 Oct 2019 10:03

Tgt Ion: 91 Resp: 599397

Ion Ratio Lower Upper

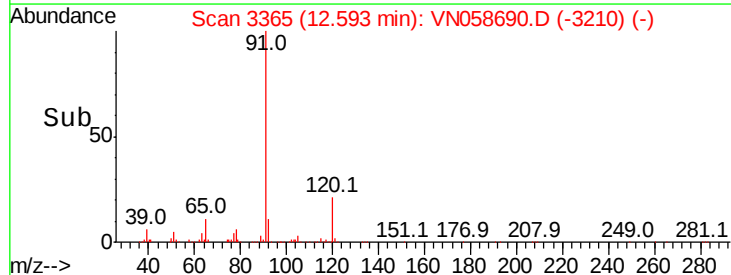
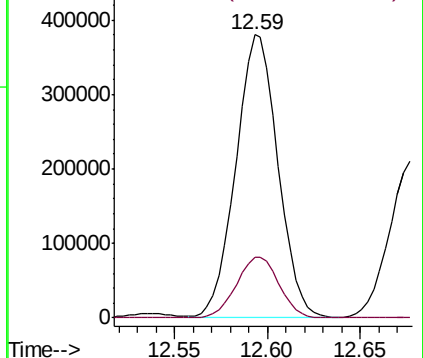
91 100

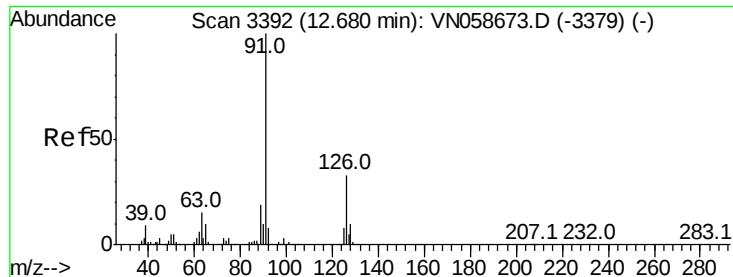
120 21.7 0.0 43.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.901 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

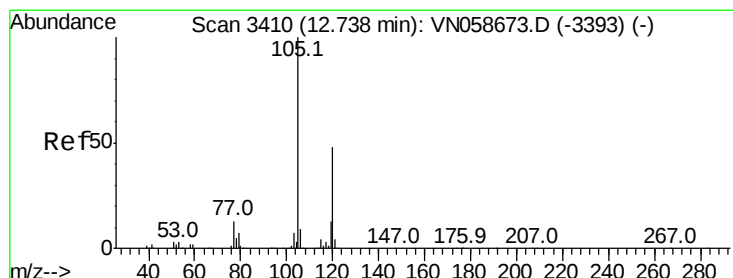
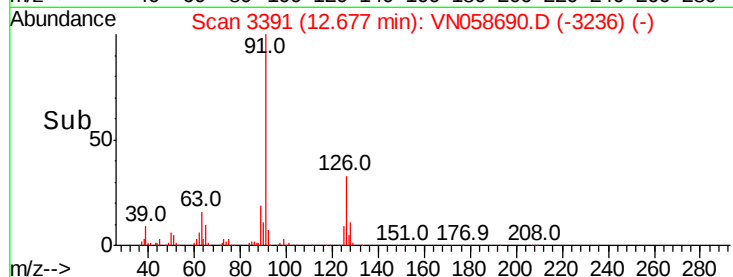
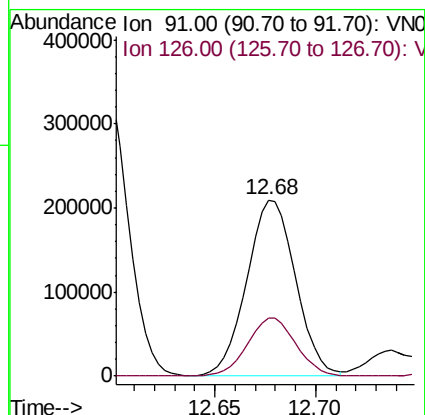
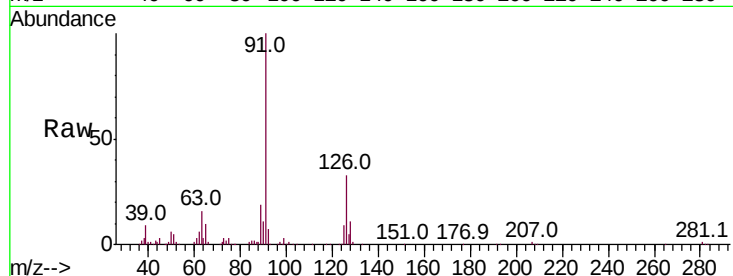
ClientSampled :

Tot Ion: 91 Resp: 353873

Ion Ratio Lower Upper

91 100

126 32.8 0.0 65.4



#76

1,3,5-Trimethylbenzene

Concen: 21.094 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058690.D

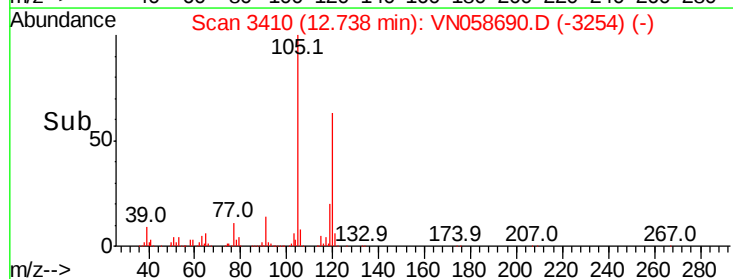
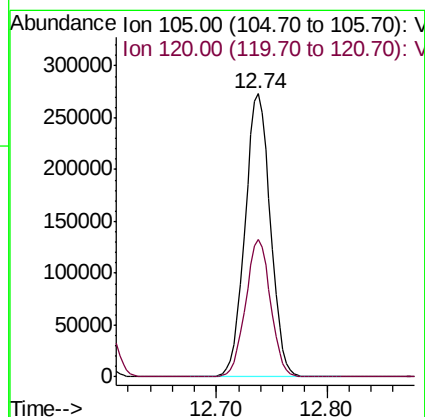
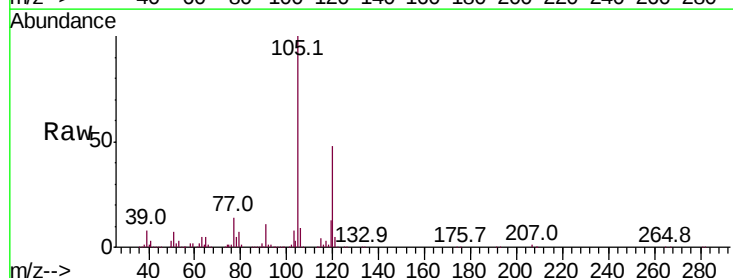
Acq: 11 Oct 2019 10:03

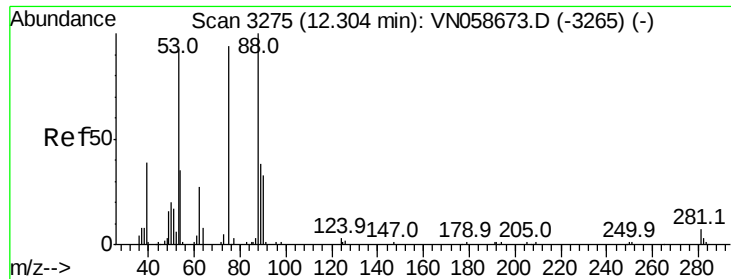
Tgt Ion: 105 Resp: 434347

Ion Ratio Lower Upper

105 100

120 47.6 0.0 94.0

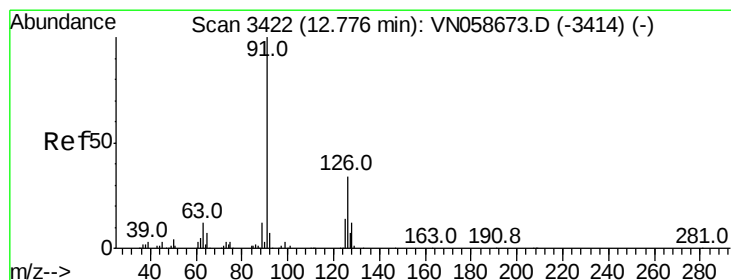
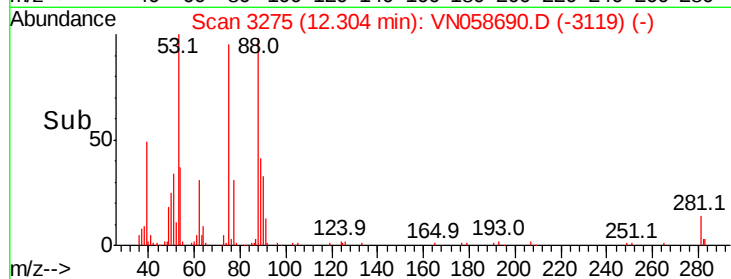
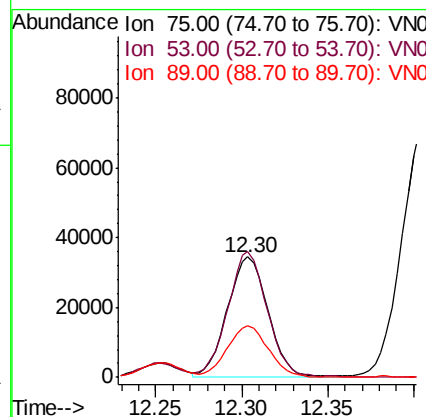
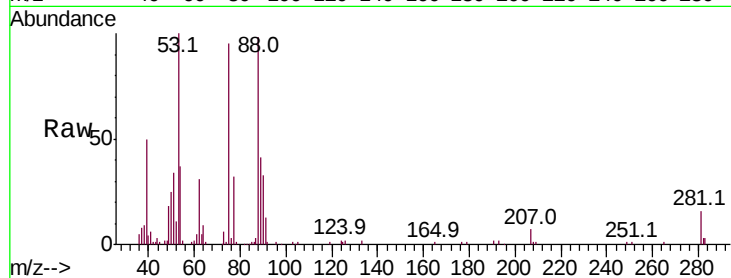




#77  
t-1,4-Dichloro-2-butene  
Concen: 20.335 ug/l  
RT: 12.30 min Scan# 3275  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

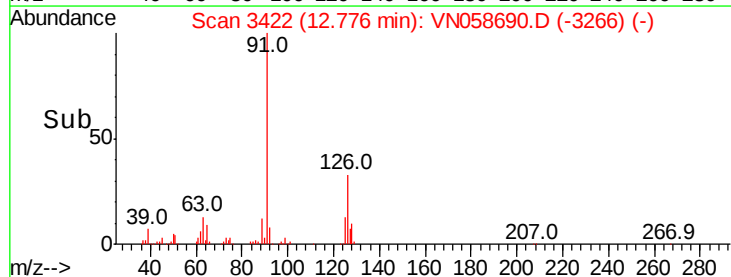
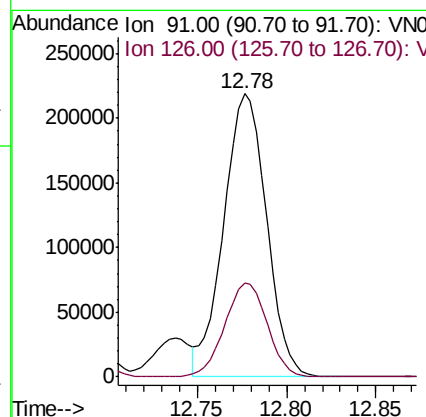
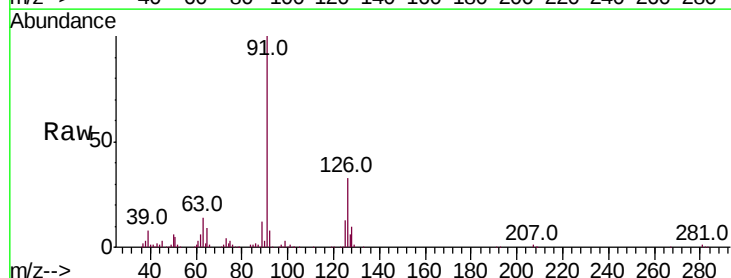
Instrument :  
MSVOA\_N  
ClientSampleId :

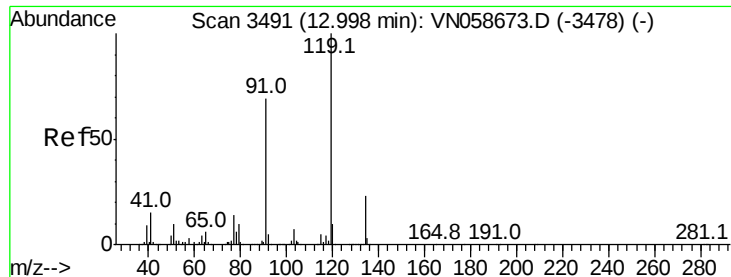
Tot Ion: 75 Resp: 56813  
Ion Ratio Lower Upper  
75 100  
53 105.6 50.0 150.0  
89 42.9 20.7 62.1



#78  
4-Chlorotoluene  
Concen: 20.851 ug/l  
RT: 12.78 min Scan# 3422  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 91 Resp: 363858  
Ion Ratio Lower Upper  
91 100  
126 33.1 0.0 63.4

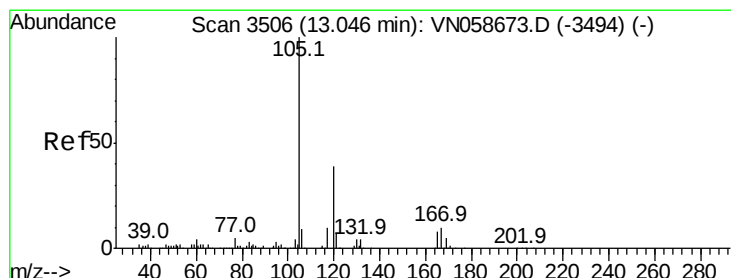
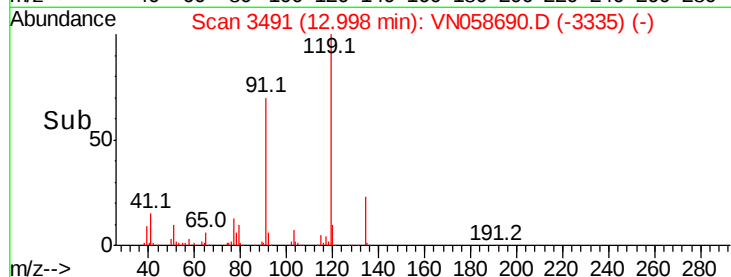
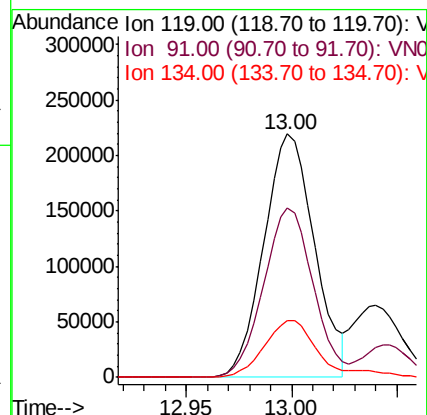
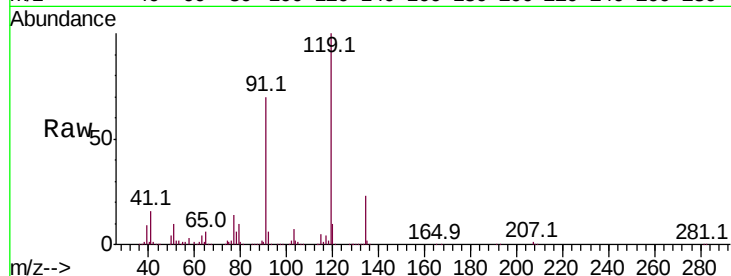




#79  
tert-butylbenzene  
Concen: 20.816 ug/l  
RT: 13.00 min Scan# 3491  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

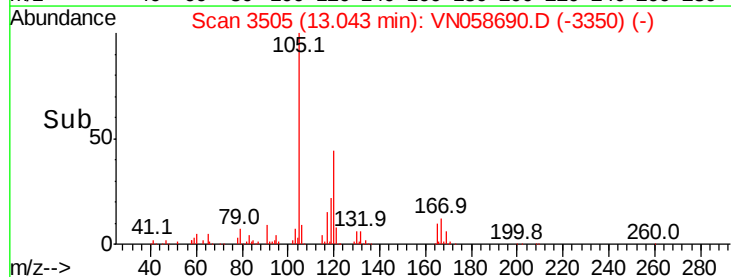
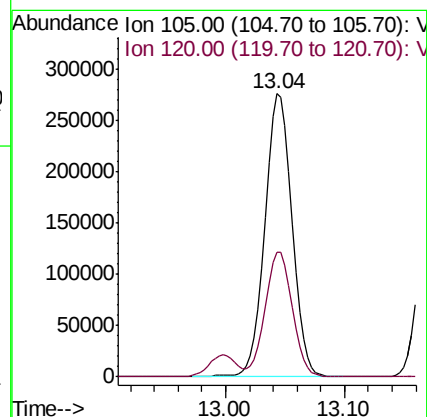
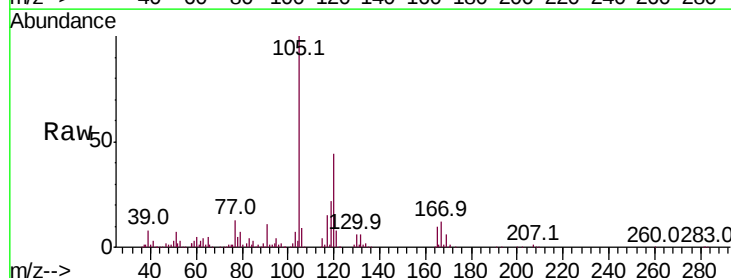
Instrument :  
MSVOA\_N  
ClientSampled :

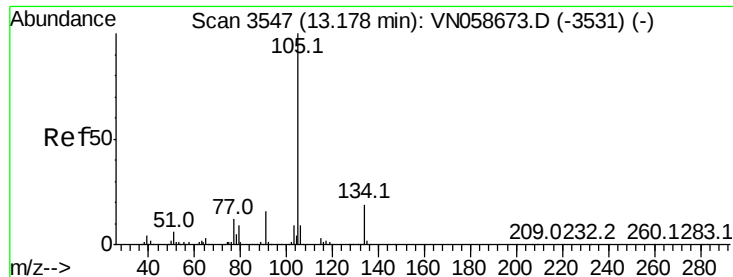
Tot Ion:119 Resp: 366200  
Ion Ratio Lower Upper  
119 100  
91 68.2 0.0 136.4  
134 23.8 0.0 47.2



#80  
1,2,4-Trimethylbenzene  
Concen: 21.335 ug/l  
RT: 13.04 min Scan# 3505  
Delta R.T. -0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion:105 Resp: 436539  
Ion Ratio Lower Upper  
105 100  
120 44.1 0.0 89.2

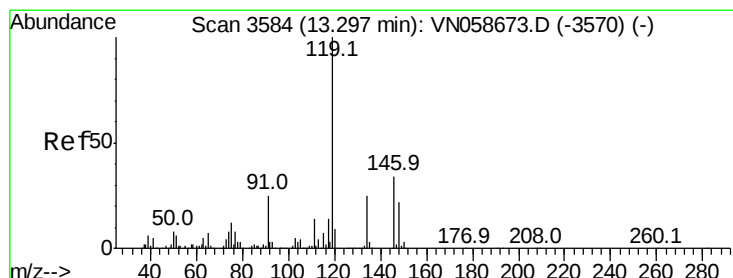
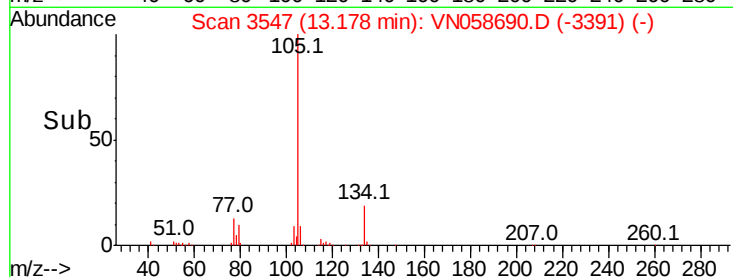
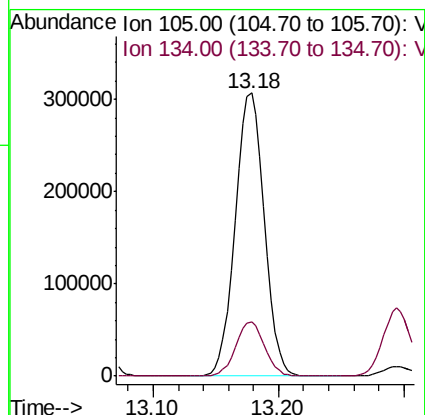
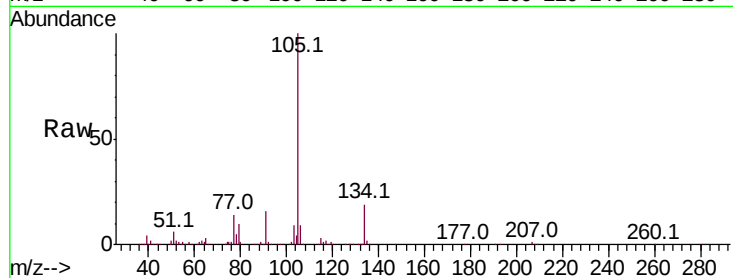




#81  
 sec-Butylbenzene  
 Concen: 20.779 ug/l  
 RT: 13.18 min Scan# 3547  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

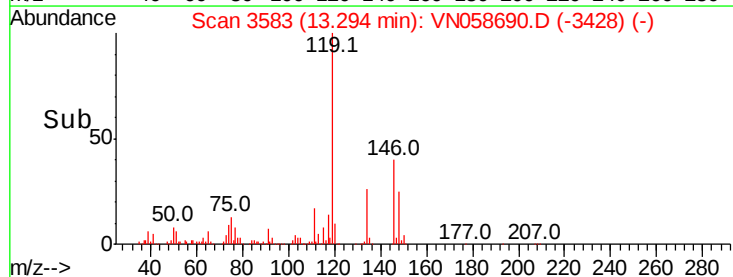
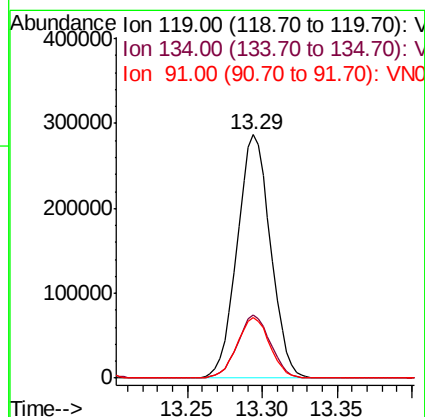
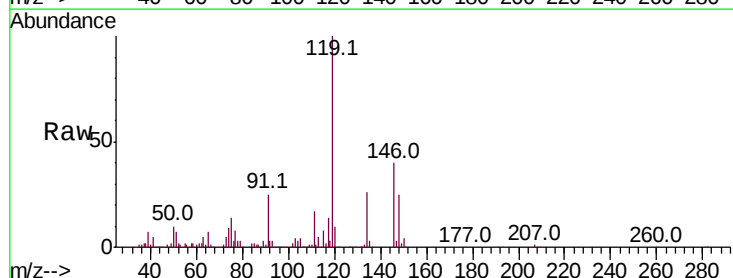
Instrument :  
 MSVOA\_N  
 ClientSampled :

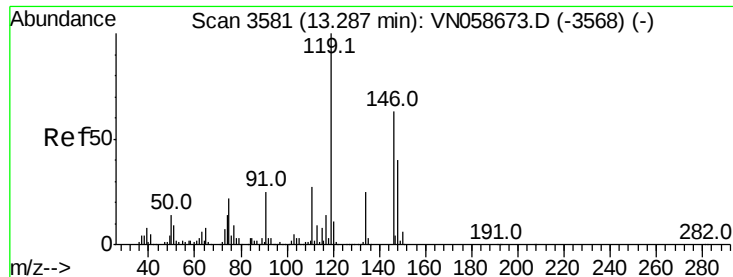
Tot Ion:105 Resp: 491944  
 Ion Ratio Lower Upper  
 105 100  
 134 19.1 0.0 38.0



#82  
 p-Isopropyltoluene  
 Concen: 20.884 ug/l  
 RT: 13.29 min Scan# 3583  
 Delta R.T. -0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

Tgt Ion:119 Resp: 444000  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 0.0 50.8  
 91 24.7 0.0 49.4

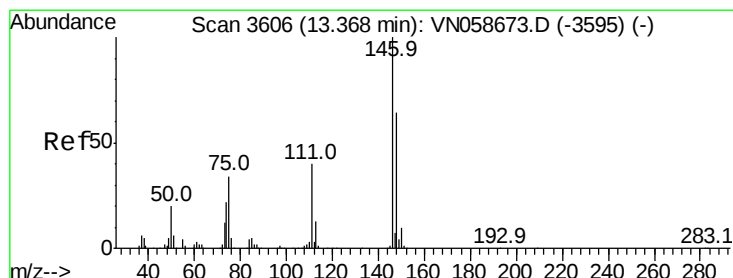
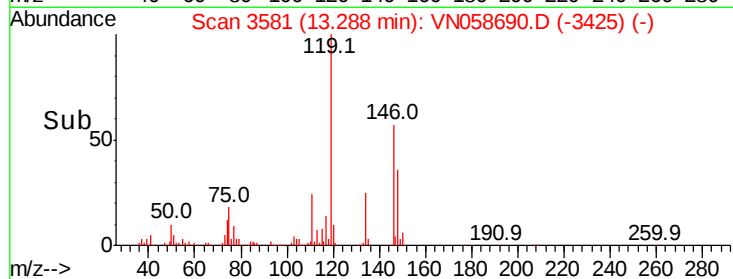
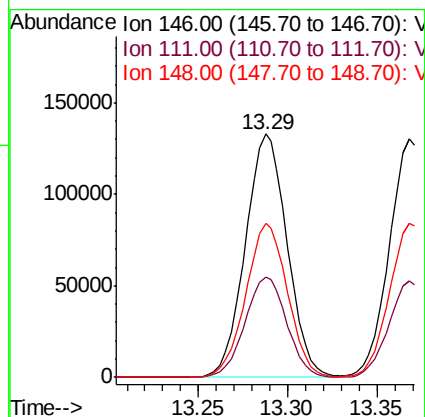
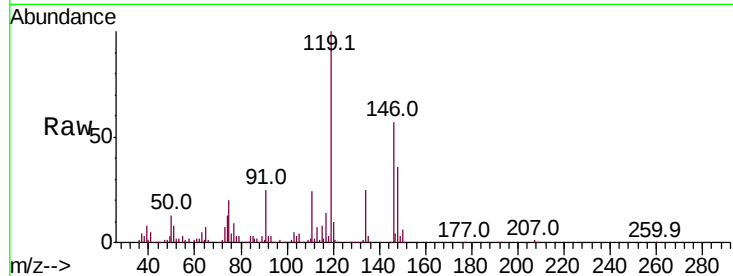




#83  
 1,3-Dichlorobenzene  
 Concen: 20.621 ug/l  
 RT: 13.29 min Scan# 3581  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

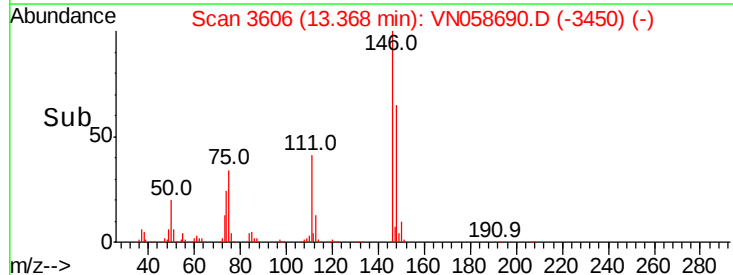
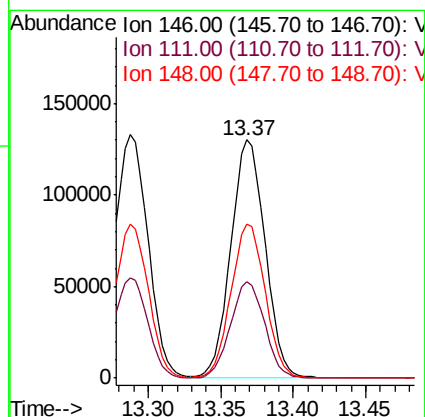
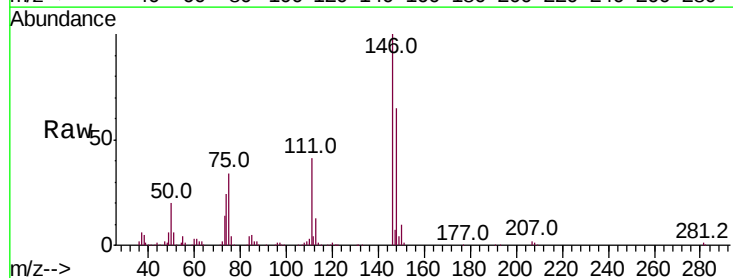
Instrument :  
 MSVOA\_N  
 ClientSampleId :

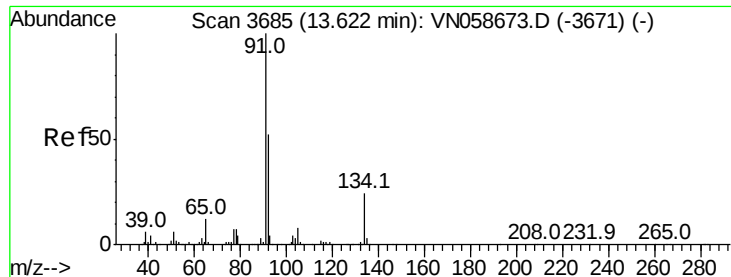
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.2  | 21.0  | 63.0  |
| 148     | 63.2  | 31.7  | 95.1  |



#84  
 1,4-Dichlorobenzene  
 Concen: 20.177 ug/l  
 RT: 13.37 min Scan# 3606  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.0  | 19.8  | 59.4  |
| 148     | 64.5  | 31.6  | 94.8  |

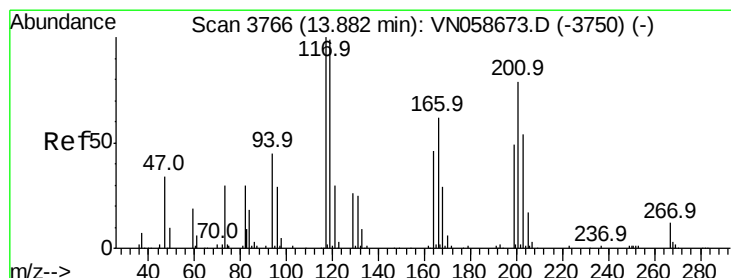
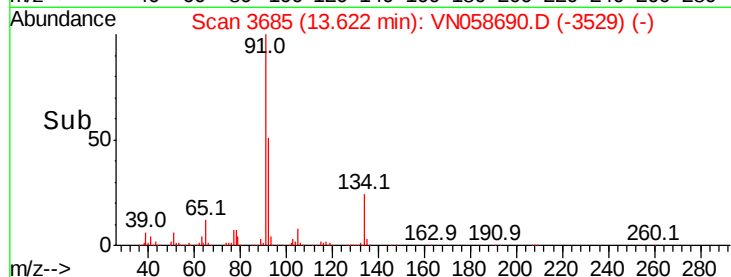
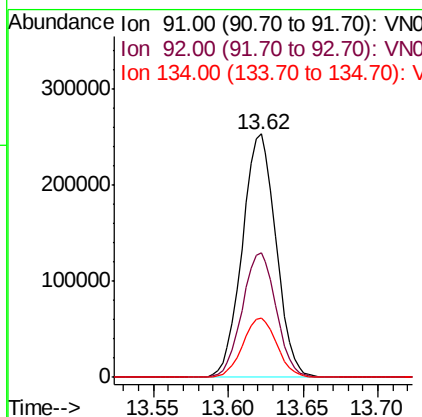
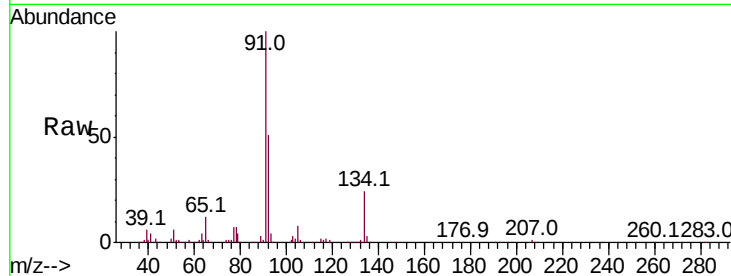




#85  
n-Butylbenzene  
Concen: 20.362 ug/l  
RT: 13.62 min Scan# 3685  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

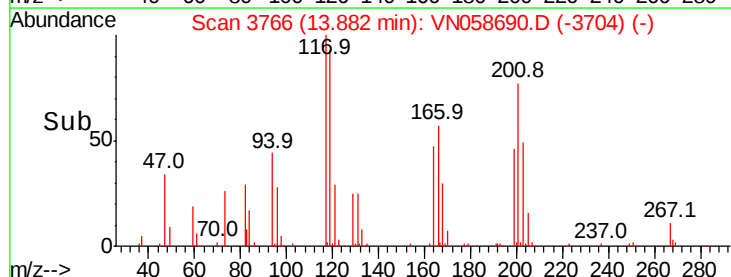
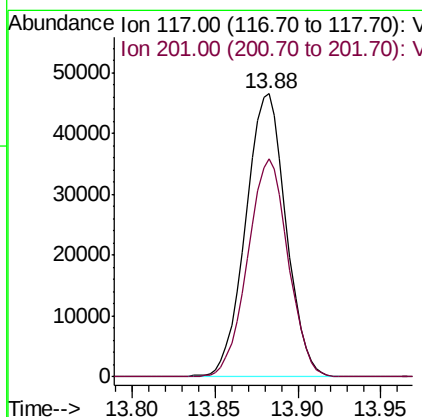
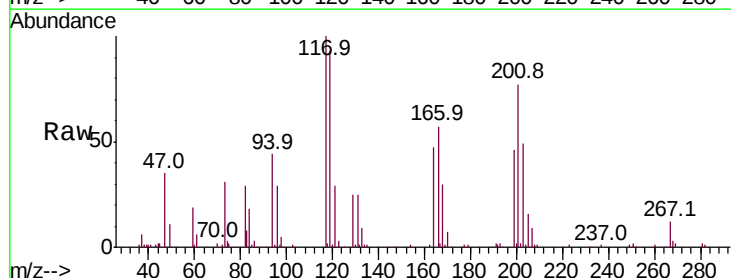
Instrument :  
MSVOA\_N  
ClientSampleId :

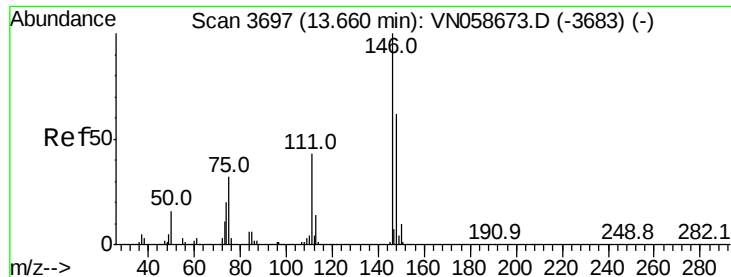
Tot Ion: 91 Resp: 396331  
Ion Ratio Lower Upper  
91 100  
92 51.5 0.0 102.8  
134 24.5 0.0 48.6



#86  
Hexachloroethane  
Concen: 20.374 ug/l  
RT: 13.88 min Scan# 3766  
Delta R.T. 0.00 min  
Lab File: VN058690.D  
Acq: 11 Oct 2019 10:03

Tgt Ion: 117 Resp: 78827  
Ion Ratio Lower Upper  
117 100  
201 77.1 38.7 116.1

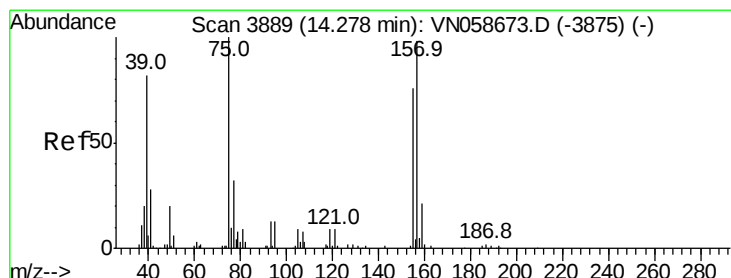
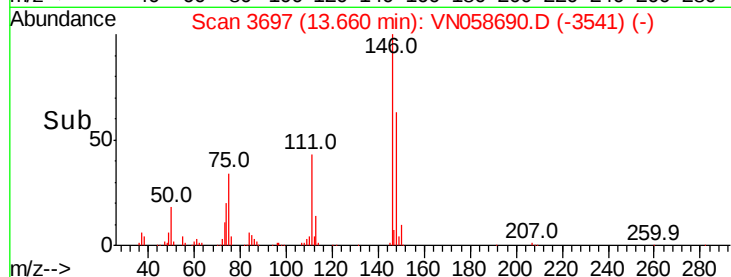
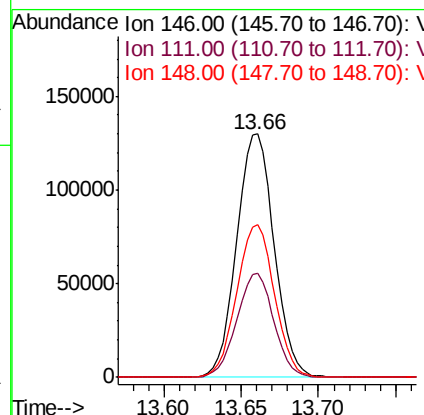
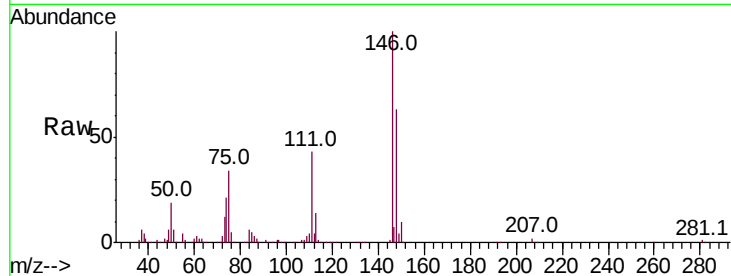




#87  
 1,2-Dichlorobenzene  
 Concen: 20.938 ug/l  
 RT: 13.66 min Scan# 3697  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

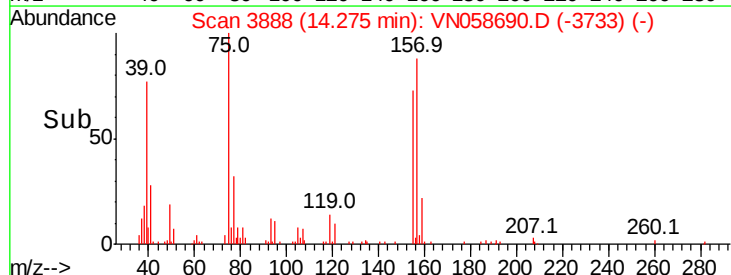
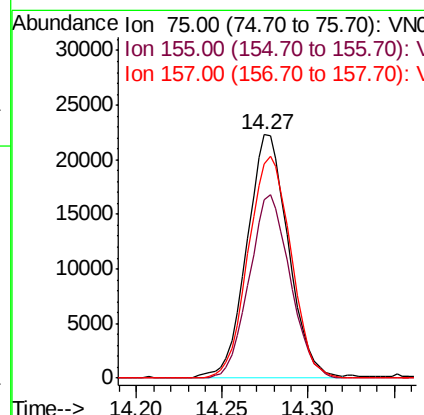
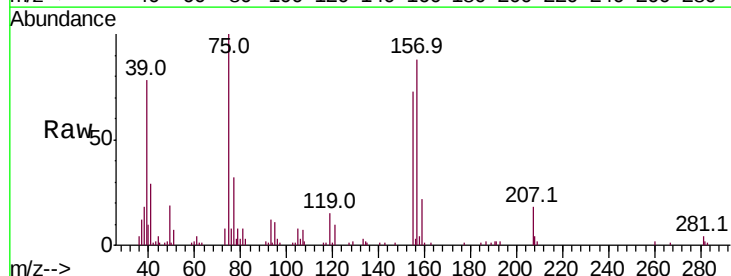
Instrument :  
 MSVOA\_N  
 ClientSampleId :

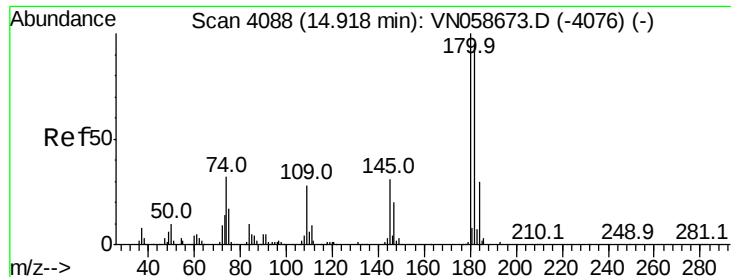
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.1  | 21.8  | 65.4  |
| 148     | 63.1  | 32.1  | 96.5  |



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 20.807 ug/l  
 RT: 14.27 min Scan# 3888  
 Delta R.T. -0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 73.8  | 58.3  | 87.5  |
| 157     | 93.3  | 75.0  | 112.6 |

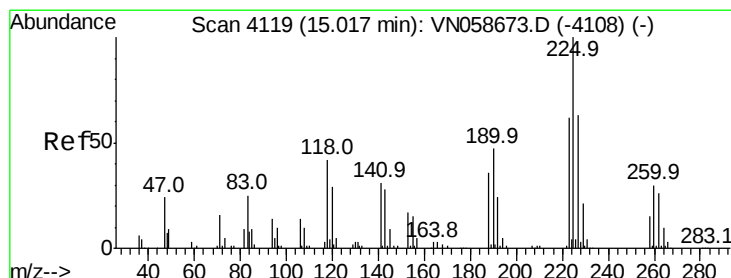
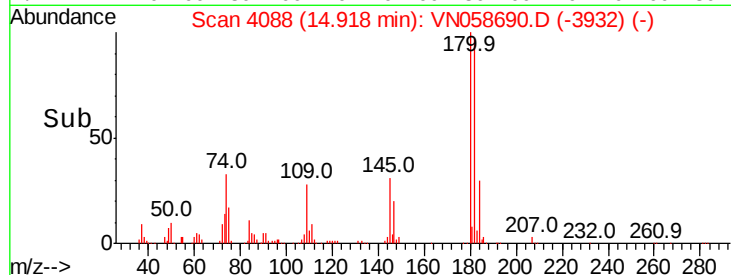
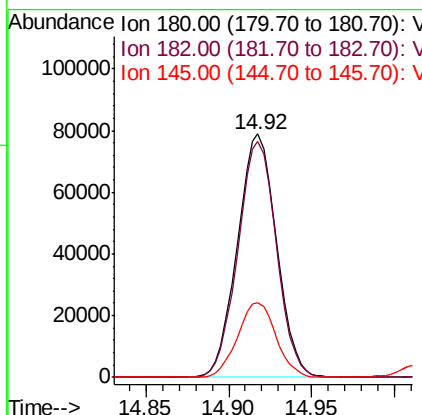
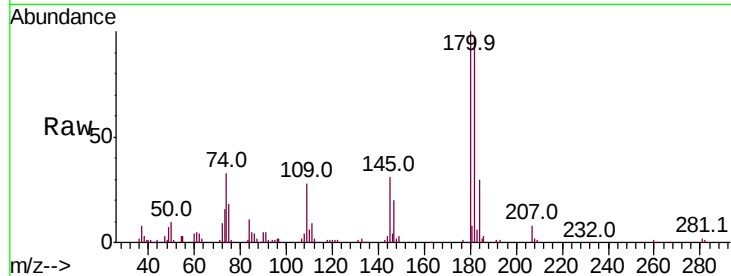




#89  
 1,2,4-Trichlorobenzene  
 Concen: 19.614 ug/l  
 RT: 14.92 min Scan# 4088  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

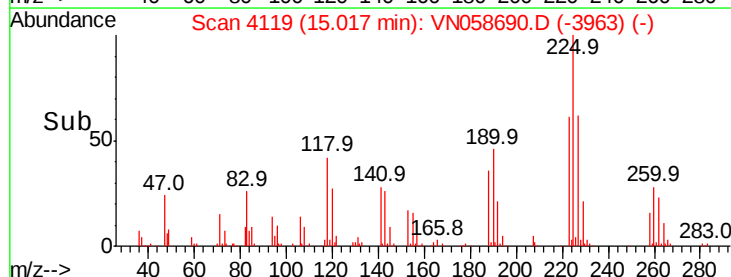
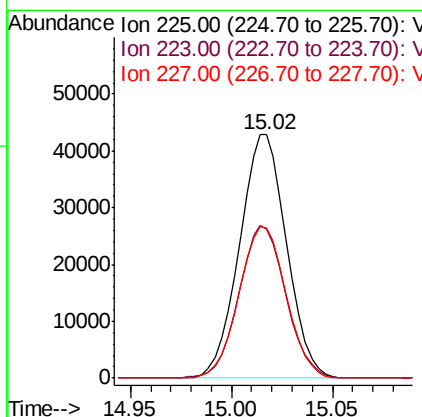
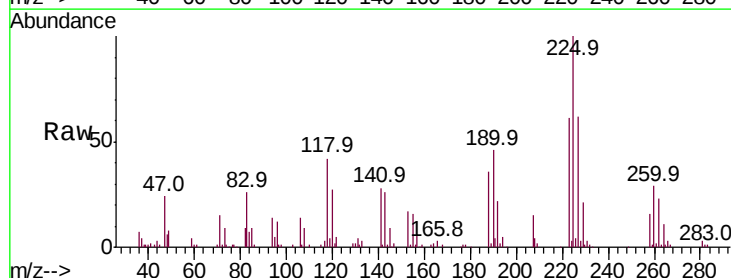
Instrument :  
 MSVOA\_N  
 ClientSampled :

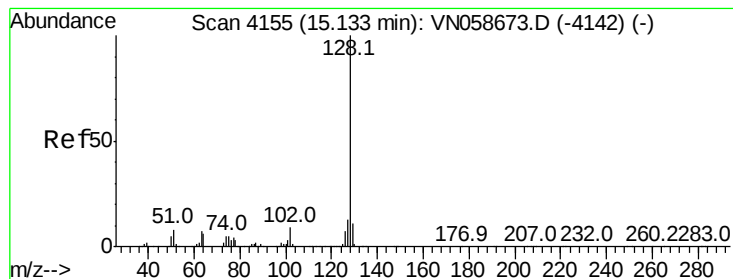
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.5  | 75.3  | 112.9 |
| 145     | 30.3  | 24.8  | 37.2  |



#90  
 Hexachlorobutadiene  
 Concen: 20.522 ug/l  
 RT: 15.02 min Scan# 4119  
 Delta R.T. 0.00 min  
 Lab File: VN058690.D  
 Acq: 11 Oct 2019 10:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.4  | 0.0   | 126.2 |
| 227     | 62.5  | 0.0   | 127.0 |





#91

Naphthalene

Concen: 19.556 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

Instrument :

MSVOA\_N

ClientSampleId :

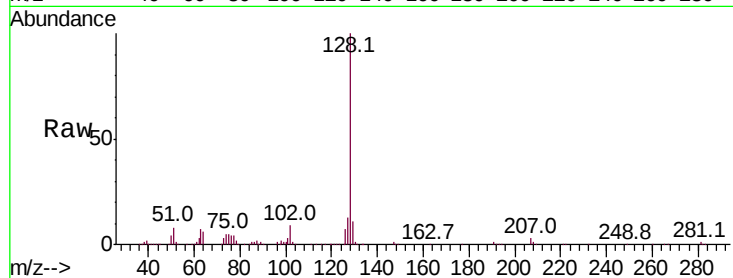
Tot Ion:128 Resp: 380322

Ion Ratio Lower Upper

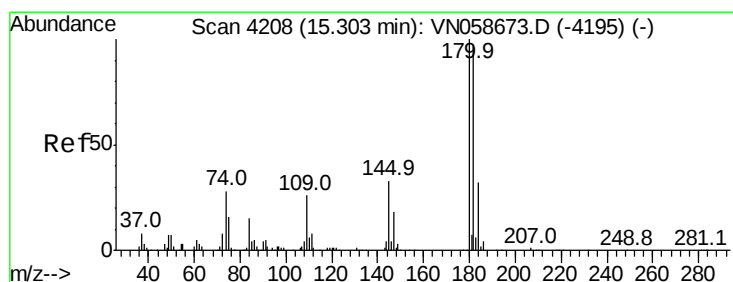
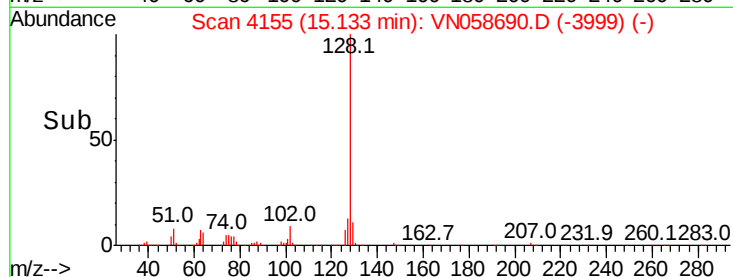
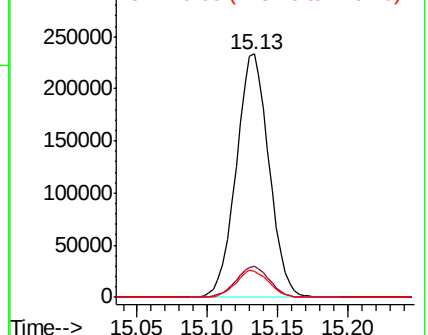
128 100

127 12.8 10.2 15.2

129 11.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 19.239 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. -0.00 min

Lab File: VN058690.D

Acq: 11 Oct 2019 10:03

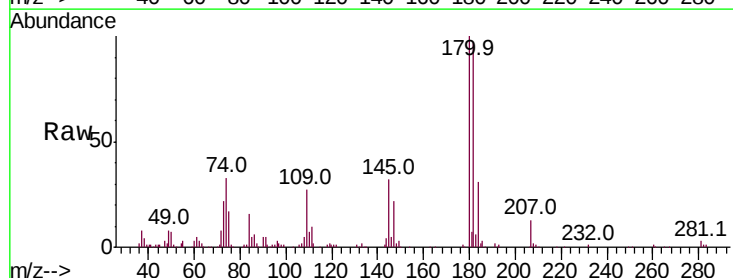
Tgt Ion:180 Resp: 123360

Ion Ratio Lower Upper

180 100

182 97.4 0.0 193.4

145 33.1 0.0 65.8



Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

