

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010821\  
 Data File : VX020536.D  
 Acq On : 08 Jan 2021 12:48  
 Operator : JC/MD  
 Sample : L5214-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jan 09 04:42:32 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SFAMXLM010721WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Jan 09 04:41:43 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.82  | 114  | 326154   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.09 | 117  | 317775   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 140336   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 128281   | 48.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.90%  |
| 7) Chloroethane-d5             | 1.69    | 69    | 106805   | 52.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.30% |
| 11) 1,1-Dichloroethene-d2      | 2.34    | 63    | 190406   | 38.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.80%  |
| 21) 2-Butanone-d5              | 4.53    | 46    | 180734   | 112.57   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 112.57% |
| 24) Chloroform-d               | 5.13    | 84    | 256250   | 56.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 113.66% |
| 26) 1,2-Dichloroethane-d4      | 6.03    | 65    | 164623   | 55.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 110.28% |
| 32) Benzene-d6                 | 6.04    | 84    | 513772   | 53.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.50% |
| 36) 1,2-Dichloropropane-d6     | 7.37    | 67    | 162721   | 55.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 110.10% |
| 41) Toluene-d8                 | 8.69    | 98    | 441121   | 50.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.82% |
| 43) trans-1,3-Dichloropropene- | 8.99    | 79    | 72998    | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.54% |
| 47) 2-Hexanone-d5              | 9.42    | 63    | 134687   | 103.17   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.17% |
| 56) 1,1,2,2-Tetrachloroethane- | 11.23   | 84    | 211229   | 51.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.90% |
| 66) 1,2-Dichlorobenzene-d4     | 12.36   | 152   | 159656   | 58.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 116.08% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.18 | 85   | 10860    | 3.420 | ug/L   | 98     |
| 3) Chloromethane               | 1.31 | 50   | 9839     | 3.443 | ug/L   | 94     |
| 5) Vinyl chloride              | 1.39 | 62   | 10766    | 3.546 | ug/L # | 80     |
| 6) Bromomethane                | 1.64 | 94   | 6245     | 4.067 | ug/L   | 98     |
| 8) Chloroethane                | 1.72 | 64   | 6688     | 3.678 | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.92 | 101  | 13180    | 3.448 | ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.36 | 101  | 9819     | 4.131 | ug/L   | 89     |
| 12) 1,1-Dichloroethene         | 2.36 | 96   | 9574     | 4.120 | ug/L # | 1      |
| 13) Acetone                    | 2.42 | 43   | 10047    | 7.635 | ug/L   | 99     |
| 14) Carbon disulfide           | 2.55 | 76   | 23862    | 3.200 | ug/L   | 98     |
| 15) Methyl Acetate             | 2.75 | 43   | 8885     | 3.391 | ug/L   | 99     |
| 16) Methylene chloride         | 2.83 | 84   | 10173    | 3.662 | ug/L   | 98     |
| 17) trans-1,2-Dichloroethene   | 3.14 | 96   | 8538     | 3.413 | ug/L   | 97     |
| 18) Methyl tert-butyl Ether    | 3.16 | 73   | 23593    | 3.121 | ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.67 | 63   | 15531    | 3.432 | ug/L   | 98     |
| 20) cis-1,2-Dichloroethene     | 4.56 | 96   | 9376     | 3.428 | ug/L   | 96     |
| 22) 2-Butanone                 | 4.64 | 43   | 12724    | 6.542 | ug/L   | 100    |

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 ClientSampleId :

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 Response via : Initial Calibration

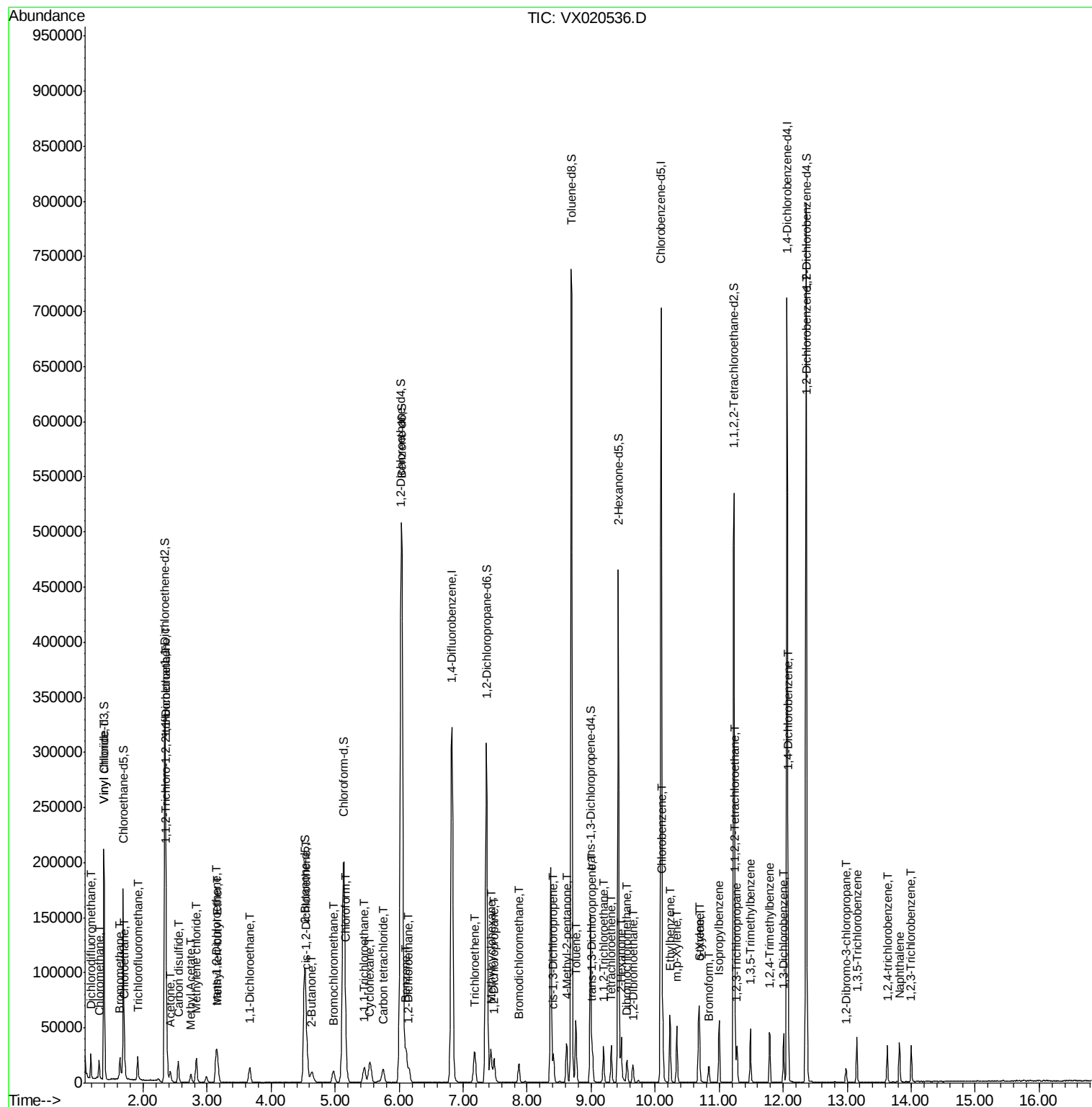
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 4.98  | 128  | 4890     | 3.457 | ug/L   | 90       |
| 25) Chloroform                 | 5.17  | 83   | 17708    | 3.585 | ug/L   | 97       |
| 27) 1,2-Dichloroethane         | 6.15  | 62   | 12955    | 3.557 | ug/L   | 98       |
| 29) Cyclohexane                | 5.54  | 56   | 10993    | 2.806 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane      | 5.46  | 97   | 13620    | 3.354 | ug/L # | 79       |
| 31) Carbon tetrachloride       | 5.74  | 117  | 11468    | 3.339 | ug/L # | 50       |
| 33) Benzene                    | 6.10  | 78   | 35710    | 3.400 | ug/L   | 100      |
| 34) Trichloroethene            | 7.18  | 95   | 8962     | 3.351 | ug/L   | 89       |
| 35) Methylcyclohexane          | 7.43  | 83   | 11797    | 2.934 | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 7.48  | 63   | 9070     | 3.404 | ug/L # | 95       |
| 38) Bromodichloromethane       | 7.87  | 83   | 11114    | 3.249 | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 8.41  | 75   | 13091    | 3.267 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone       | 8.62  | 43   | 19553    | 5.586 | ug/L   | 99       |
| 42) Toluene                    | 8.76  | 91   | 35657    | 3.241 | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene  | 9.02  | 75   | 12677    | 3.241 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane      | 9.20  | 97   | 8777     | 3.329 | ug/L   | 97       |
| 46) Tetrachloroethene          | 9.32  | 164  | 7059     | 3.405 | ug/L   | 91       |
| 48) 2-Hexanone                 | 9.47  | 43   | 18836    | 6.810 | ug/L   | 97       |
| 49) Dibromochloromethane       | 9.56  | 129  | 8353     | 3.090 | ug/L   | 100      |
| 50) 1,2-Dibromoethane          | 9.65  | 107  | 8751     | 3.204 | ug/L   | 96       |
| 51) Chlorobenzene              | 10.12 | 112  | 22336    | 3.206 | ug/L   | 97       |
| 52) Ethylbenzene               | 10.23 | 91   | 33795    | 2.872 | ug/L   | 95       |
| 53) m,p-Xylene                 | 10.34 | 106  | 12094    | 2.751 | ug/L   | 92       |
| 54) o-Xylene                   | 10.68 | 106  | 11357    | 2.662 | ug/L   | 98       |
| 55) Styrene                    | 10.70 | 104  | 18164    | 2.515 | ug/L   | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 13439    | 3.212 | ug/L   | 97       |
| 59) Bromoform                  | 10.84 | 173  | 5419     | 3.091 | ug/L   | 98       |
| 60) Isopropylbenzene           | 11.00 | 105  | 28253    | 2.855 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane     | 11.27 | 75   | 11093    | 3.624 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 21069    | 2.611 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 20169    | 2.476 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene        | 12.01 | 146  | 14343    | 3.107 | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene        | 12.08 | 146  | 15618    | 3.349 | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene        | 12.37 | 146  | 15767    | 3.426 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropropan | 12.98 | 75   | 2356     | 3.043 | ug/L   | 88       |
| 69) 1,3,5-Trichlorobenzene     | 13.15 | 180  | 9947     | 3.139 | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene     | 13.63 | 180  | 7645     | 2.802 | ug/L   | 97       |
| 71) Naphthalene                | 13.82 | 128  | 21457    | 2.380 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 8077     | 2.877 | ug/L   | 99       |

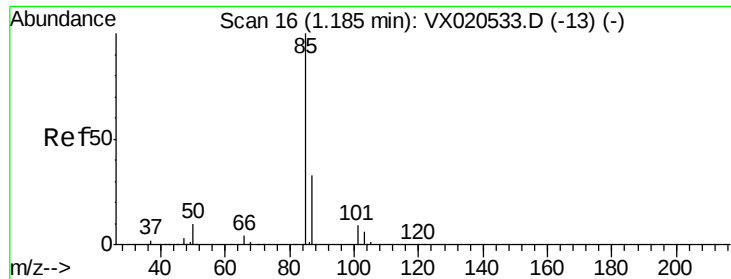
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Jan 09 04:41:43 2021  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 3.420 ug/L

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

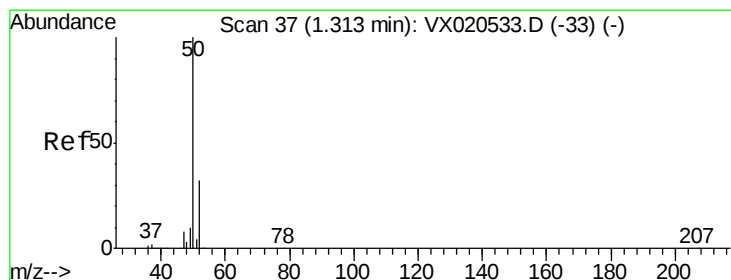
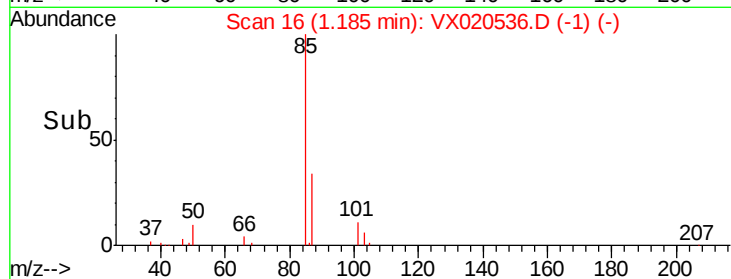
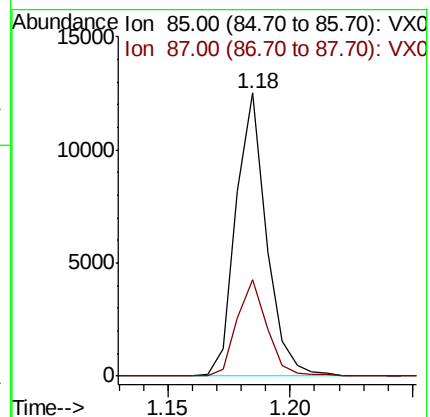
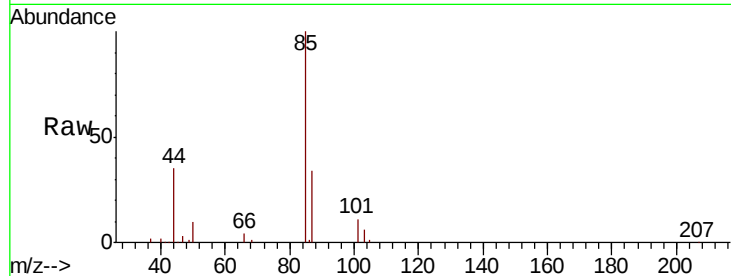
ClientSampled :

Tot Ion: 85 Resp: 10860

Ion Ratio Lower Upper

85 100

87 33.6 25.9 38.9



#3

Chloromethane

Concen: 3.443 ug/L

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX020536.D

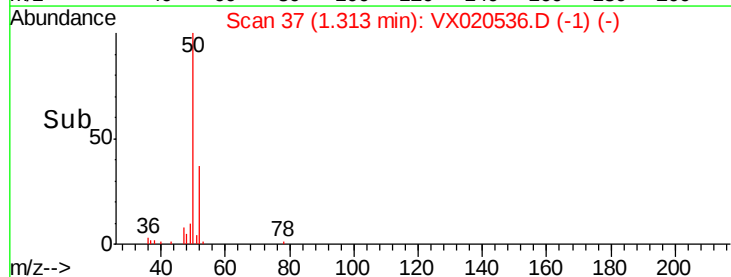
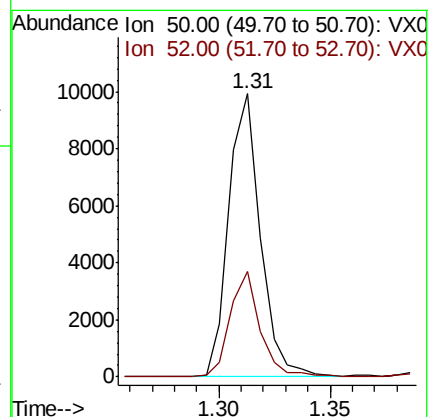
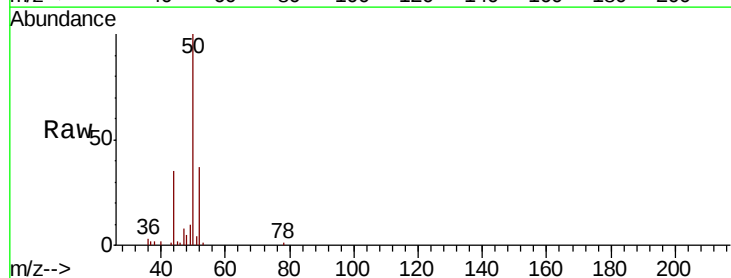
Acq: 08 Jan 2021 12:48

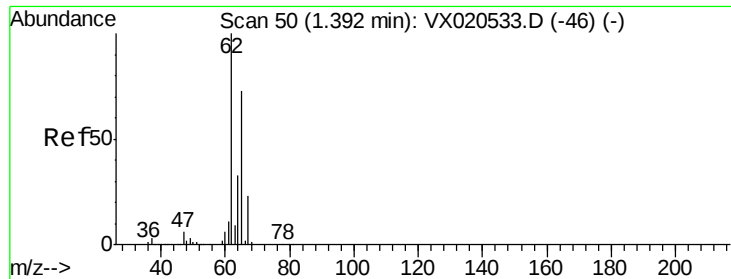
Tgt Ion: 50 Resp: 9839

Ion Ratio Lower Upper

50 100

52 37.1 23.7 43.9





#5

Vinyl chloride

Concen: 3.546 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

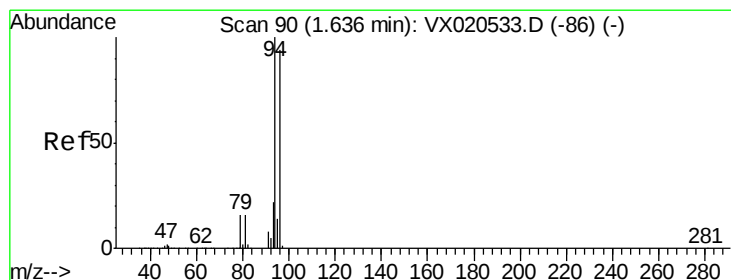
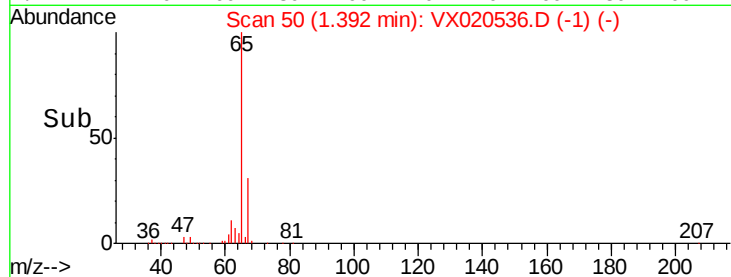
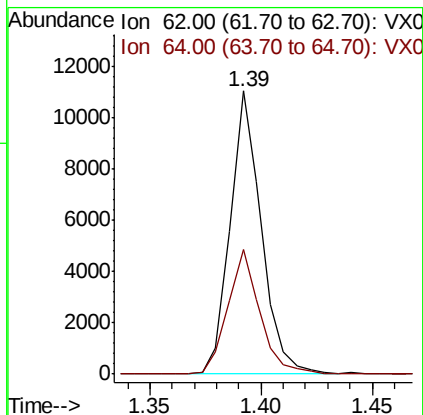
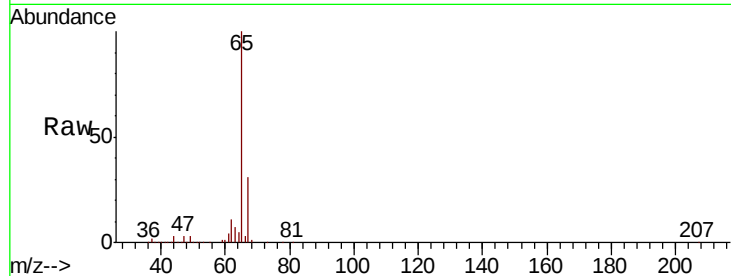
ClientSampled :

Tot Ion: 62 Resp: 10766

Ion Ratio Lower Upper

62 100

64 44.0 22.7 42.3#



#6

Bromomethane

Concen: 4.067 ug/L

RT: 1.64 min Scan# 90

Delta R.T. -0.00 min

Lab File: VX020536.D

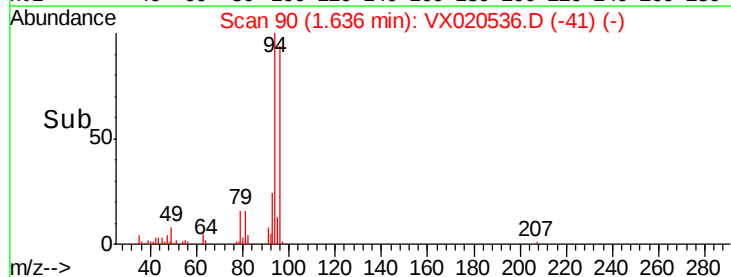
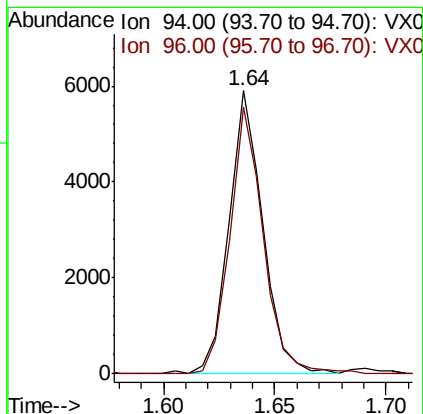
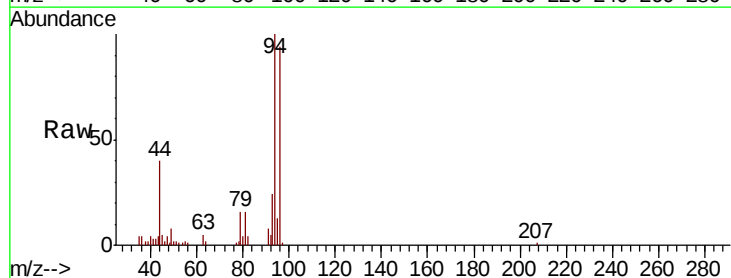
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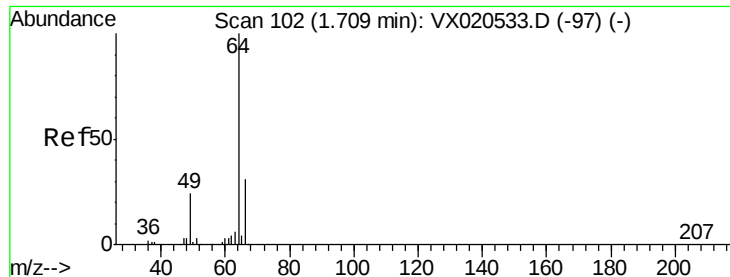
Tgt Ion: 94 Resp: 6245

Ion Ratio Lower Upper

94 100

96 94.2 64.8 120.3





#8

Chloroethane

Concen: 3.678 ug/L

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

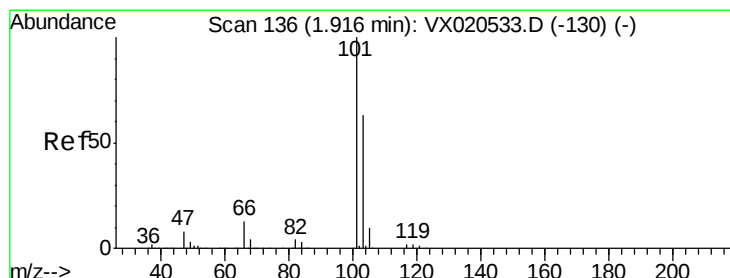
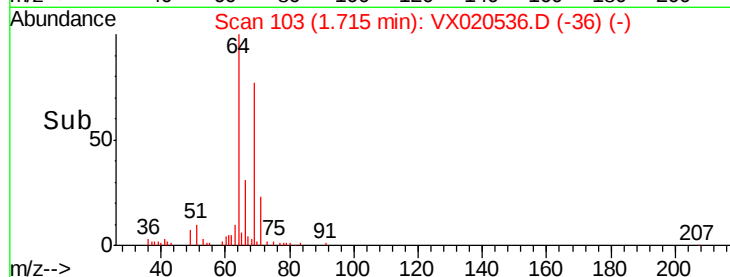
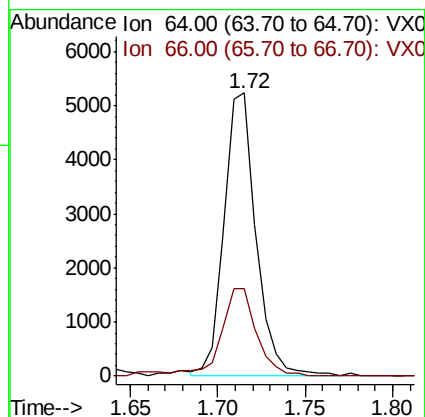
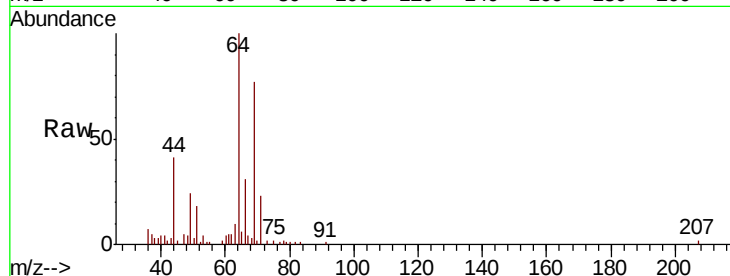
ClientSampleId :

Tot Ion: 64 Resp: 6688

Ion Ratio Lower Upper

64 100

66 30.7 22.0 41.0



#9

Trichlorofluoromethane

Concen: 3.448 ug/L

RT: 1.92 min Scan# 136

Delta R.T. -0.00 min

Lab File: VX020536.D

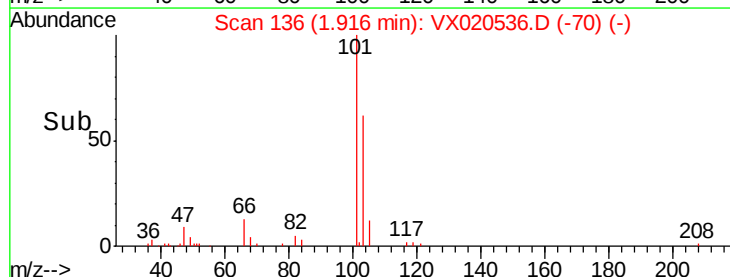
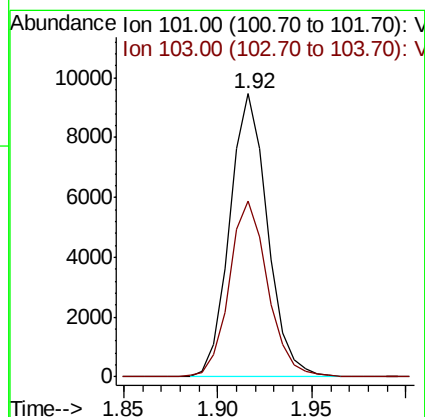
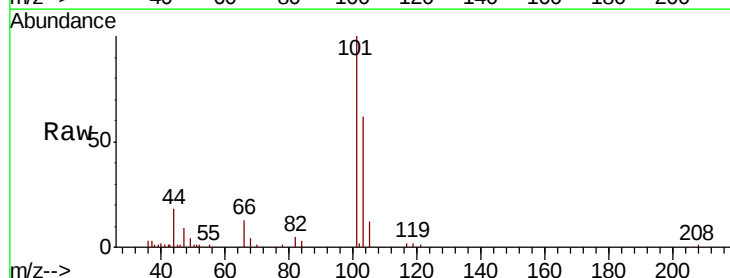
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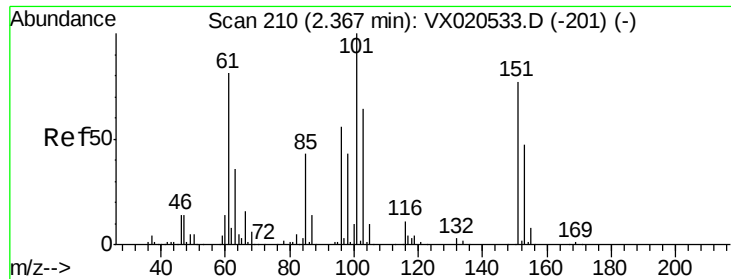
Tgt Ion: 101 Resp: 13180

Ion Ratio Lower Upper

101 100

103 63.5 52.2 78.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.131 ug/L

RT: 2.36 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

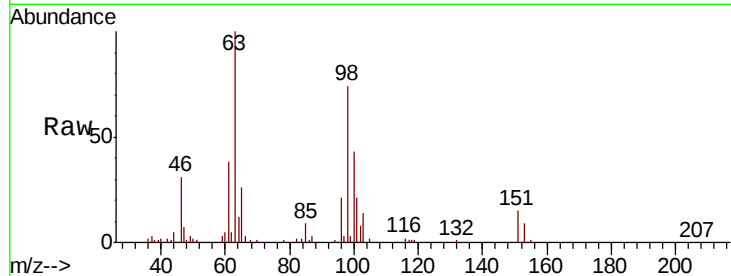
Tot Ion:101 Resp: 9819

Ion Ratio Lower Upper

101 100

85 38.2 34.3 51.5

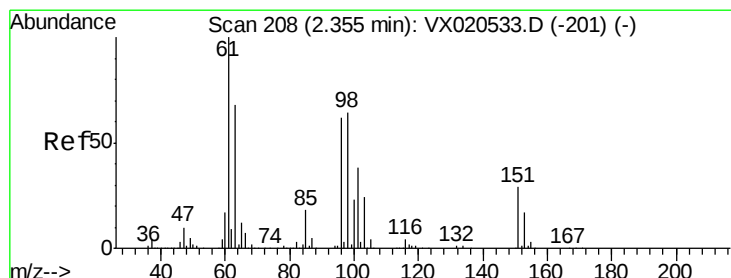
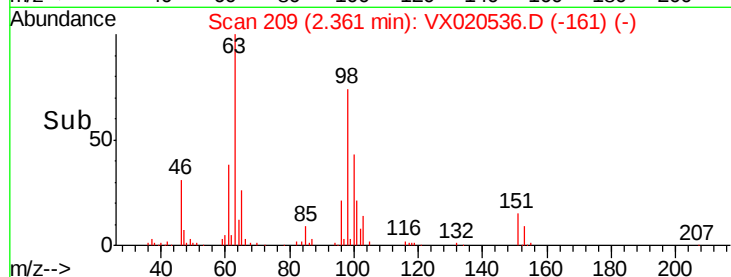
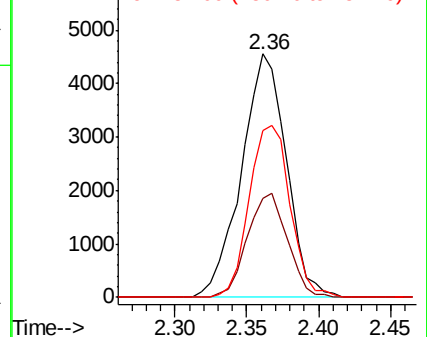
151 64.2 60.7 91.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.120 ug/L

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

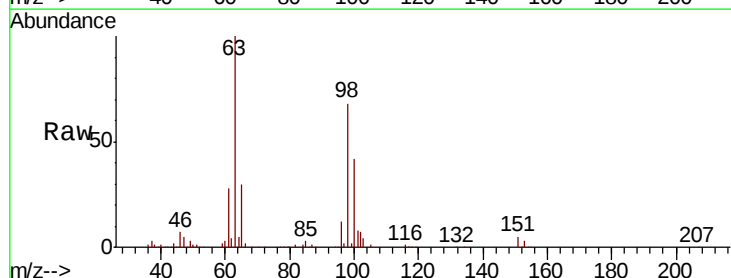
Tgt Ion: 96 Resp: 9574

Ion Ratio Lower Upper

96 100

61 238.9 115.5 214.5#

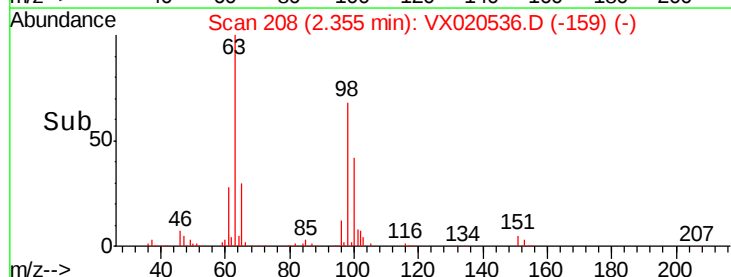
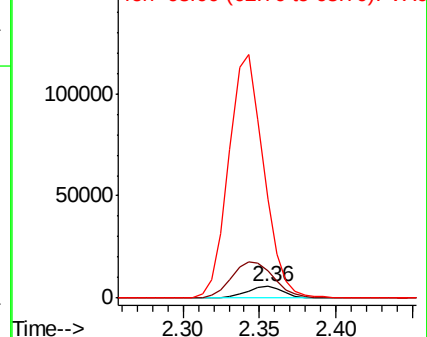
63 857.2 77.3 143.7#

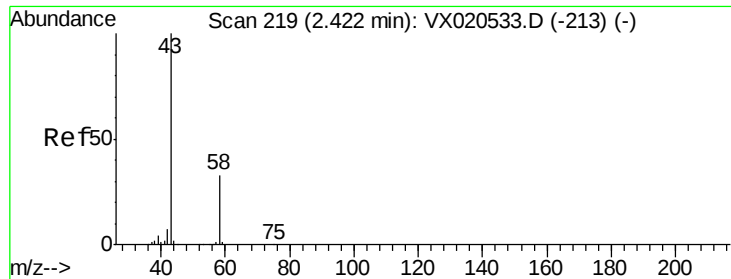


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 63.00 (62.70 to 63.70): VX0





#13

Acetone

Concen: 7.635 ug/L

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

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Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

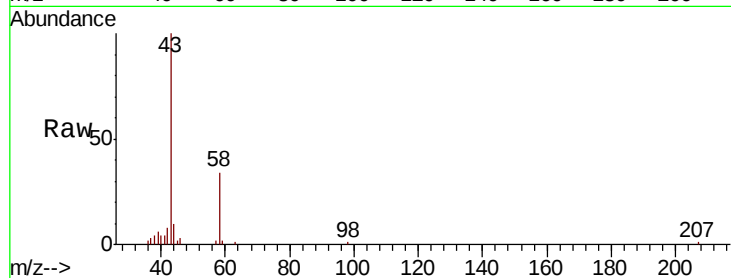
ClientSampleId :

Tot Ion: 43 Resp: 10047

Ion Ratio Lower Upper

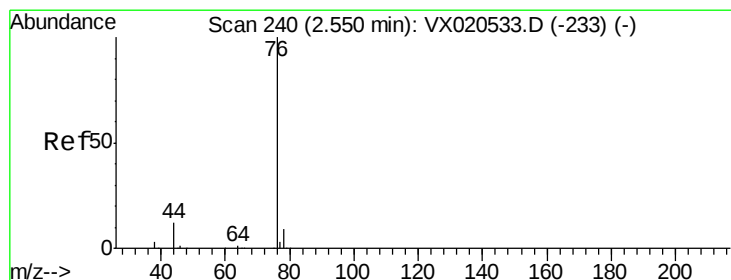
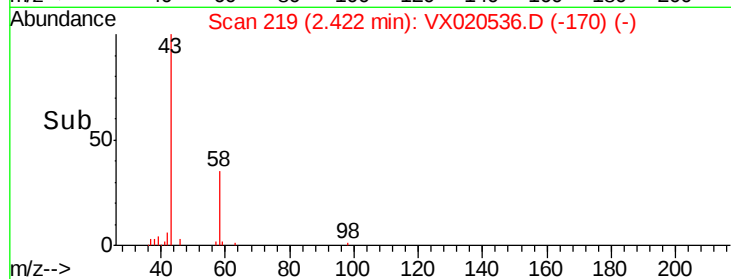
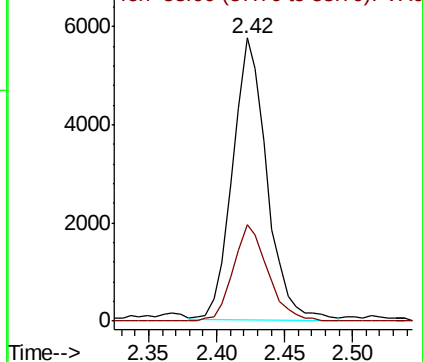
43 100

58 34.6 0.0 68.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#14

Carbon disulfide

Concen: 3.200 ug/L

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX020536.D

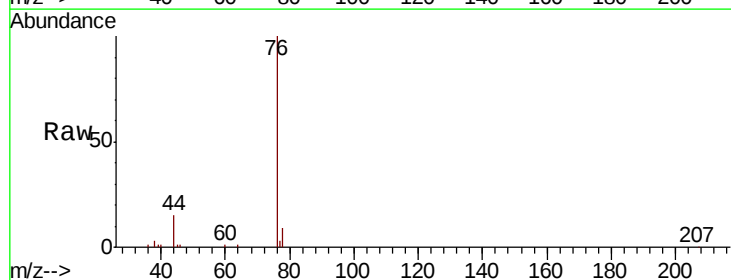
Acq: 08 Jan 2021 12:48

Tgt Ion: 76 Resp: 23862

Ion Ratio Lower Upper

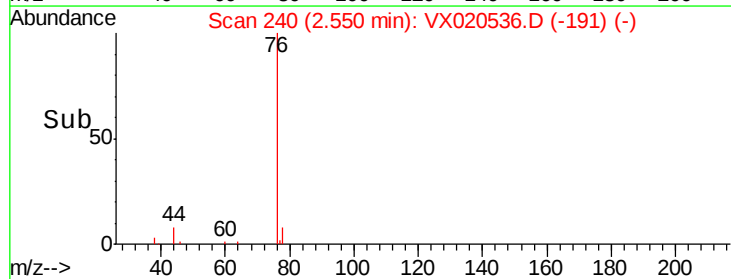
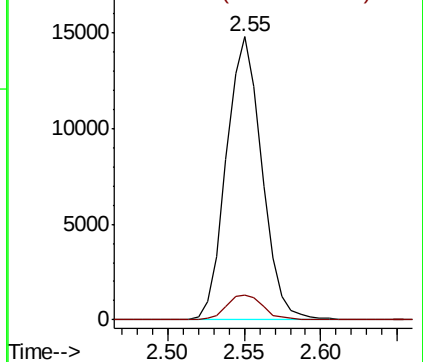
76 100

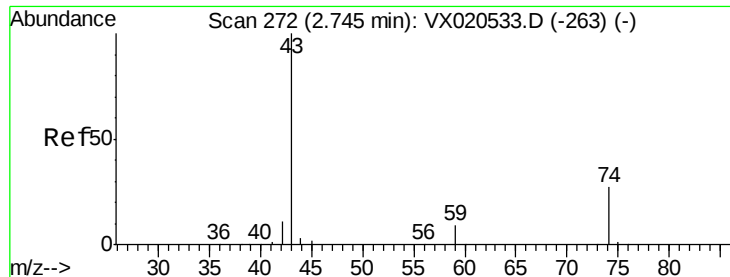
78 8.7 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

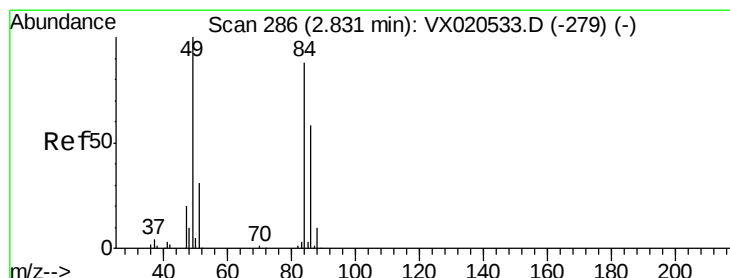
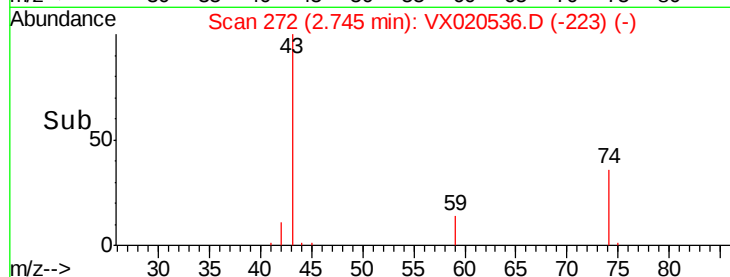
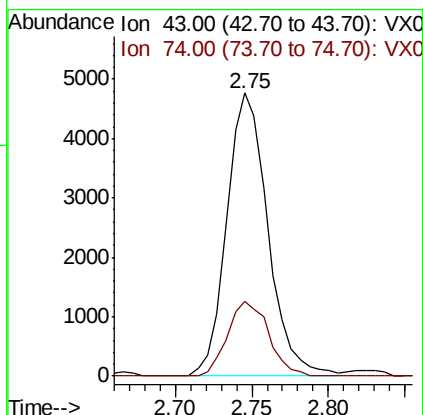
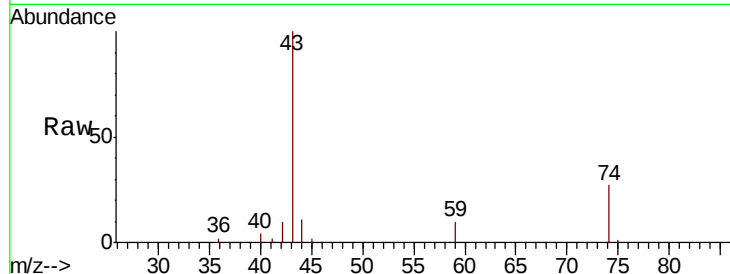




#15  
Methvl Acetate  
Concen: 3.391 ug/L  
RT: 2.75 min Scan# 272  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

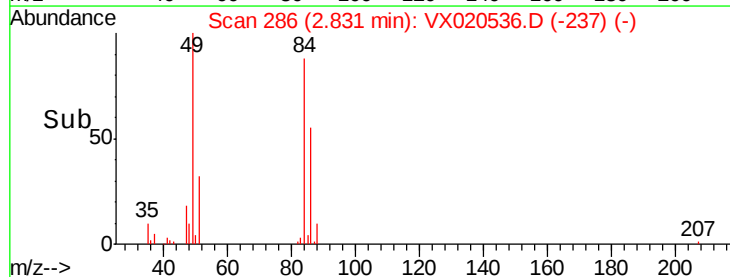
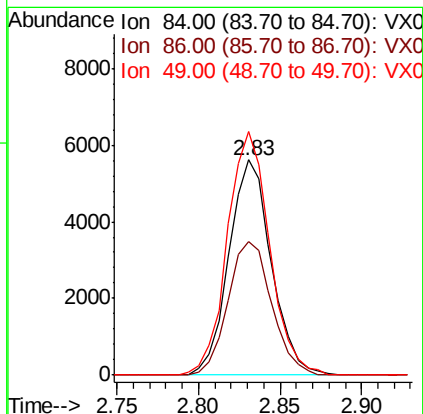
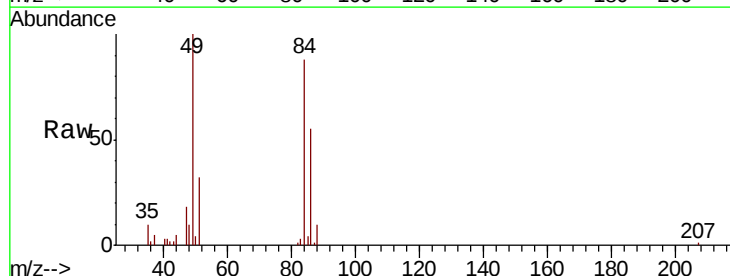
Instrument :  
MSVOA\_X  
ClientSampled :

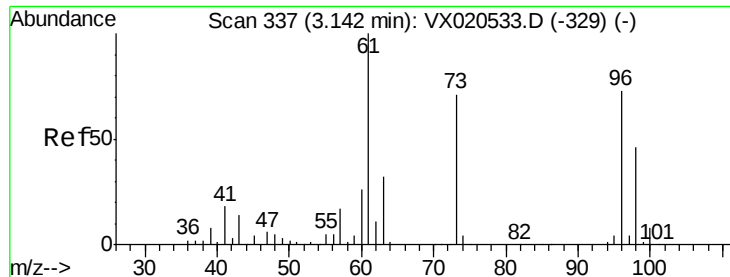
Tot Ion: 43 Resp: 8885  
Ion Ratio Lower Upper  
43 100  
74 26.3 21.7 32.5



#16  
Methylene chloride  
Concen: 3.662 ug/L  
RT: 2.83 min Scan# 286  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

Tgt Ion: 84 Resp: 10173  
Ion Ratio Lower Upper  
84 100  
86 62.3 44.2 82.0  
49 113.2 77.8 144.6





#17

trans-1,2-Dichloroethene

Concen: 3.413 ug/L

RT: 3.14 min Scan# 336

Delta R.T. -0.01 min

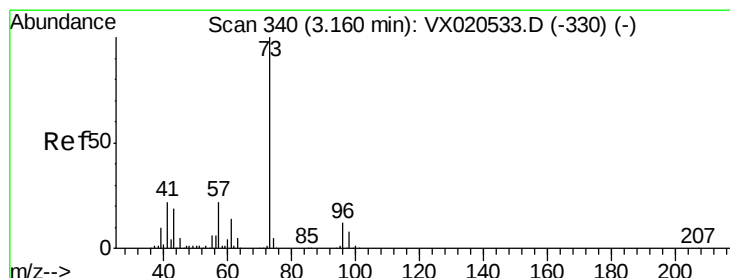
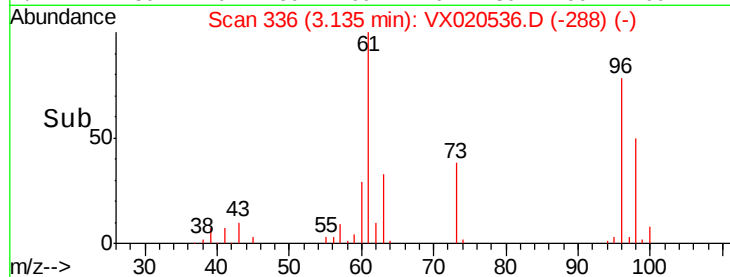
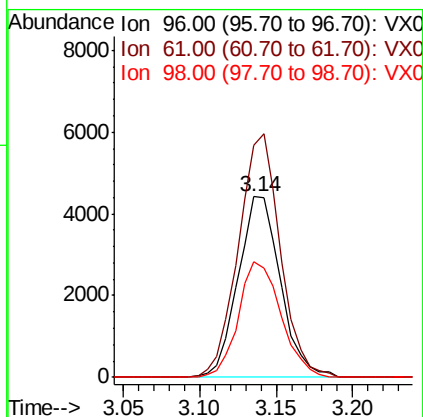
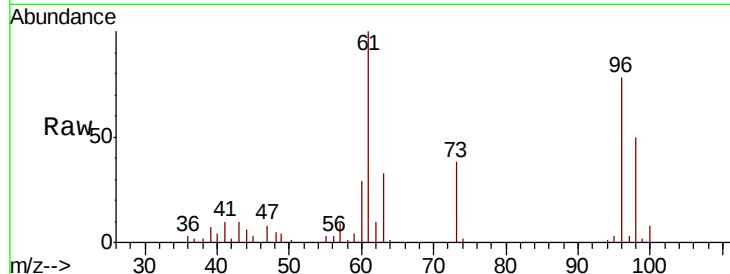
Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 96 Resp: 8538

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 128.3 | 92.3  | 171.3 |
| 98  | 63.9  | 46.3  | 85.9  |



#18

Methyl tert-butyl Ether

Concen: 3.121 ug/L

RT: 3.16 min Scan# 340

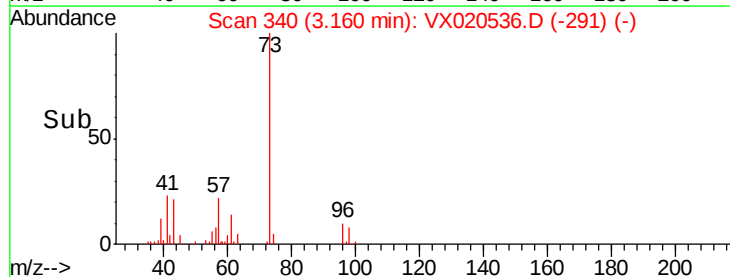
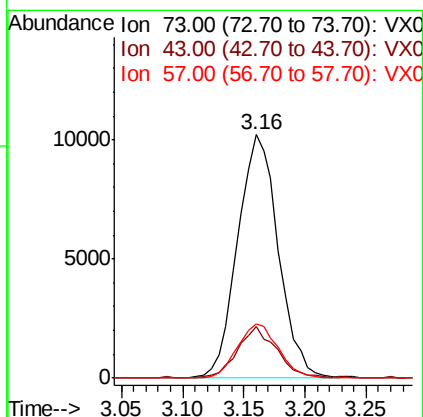
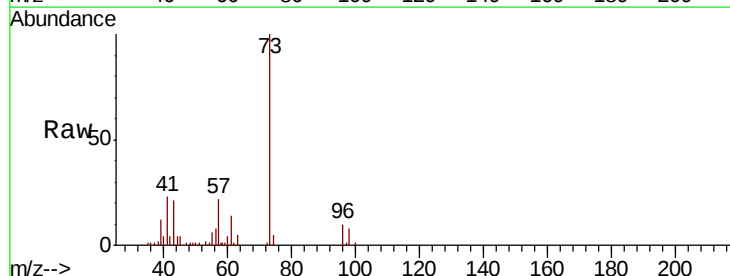
Delta R.T. -0.00 min

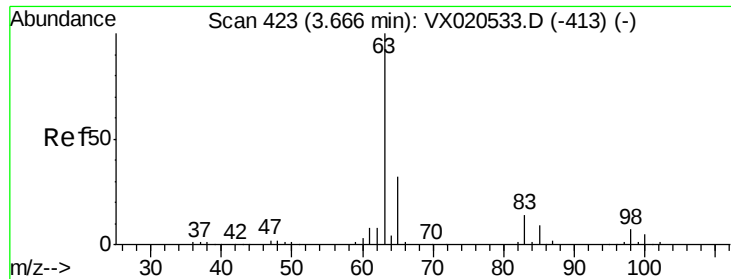
Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Tgt Ion: 73 Resp: 23593

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 43  | 20.3  | 15.1  | 22.7  |
| 57  | 22.2  | 17.4  | 26.2  |





#19

1,1-Dichloroethane

Concen: 3.432 ug/L

RT: 3.67 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

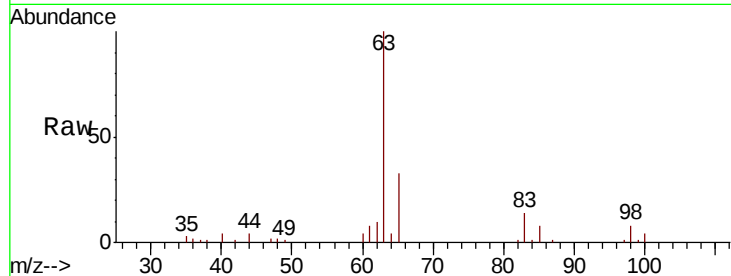
Tot Ion: 63 Resp: 15531

Ion Ratio Lower Upper

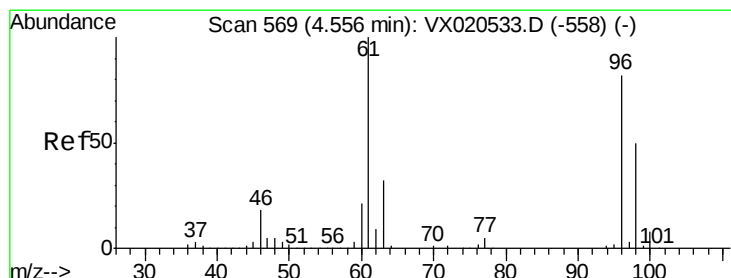
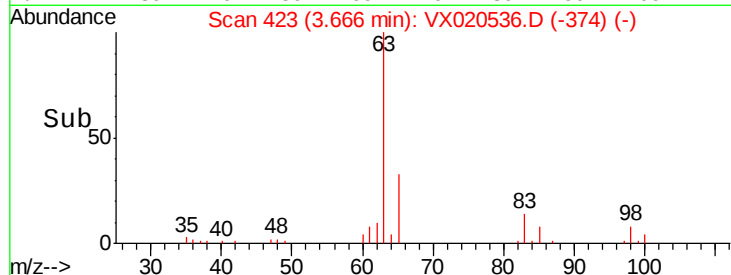
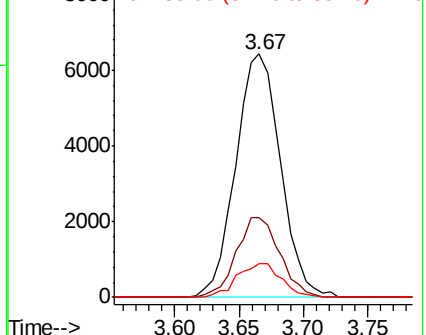
63 100

65 32.9 22.4 41.6

83 14.1 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VX0  
Ion 65.00 (64.70 to 65.70): VX0  
Ion 83.00 (82.70 to 83.70): VX0



#20

cis-1,2-Dichloroethene

Concen: 3.428 ug/L

RT: 4.56 min Scan# 569

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

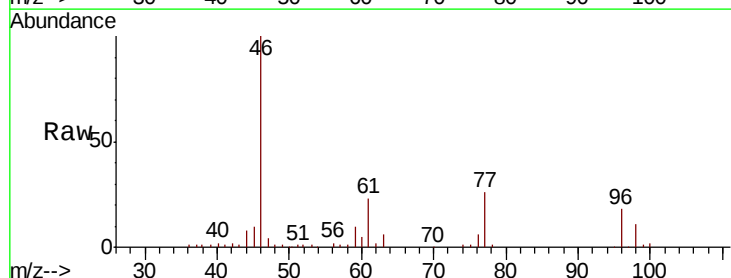
Tgt Ion: 96 Resp: 9376

Ion Ratio Lower Upper

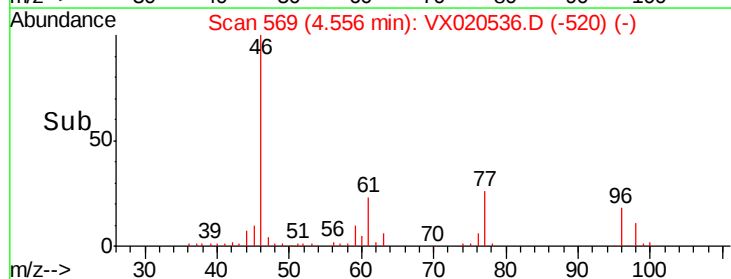
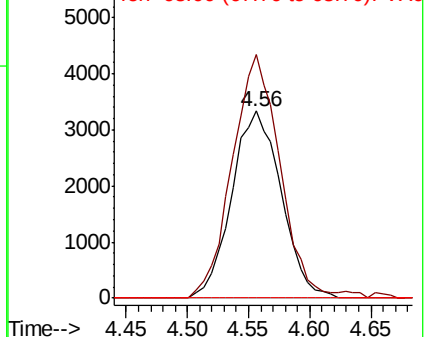
96 100

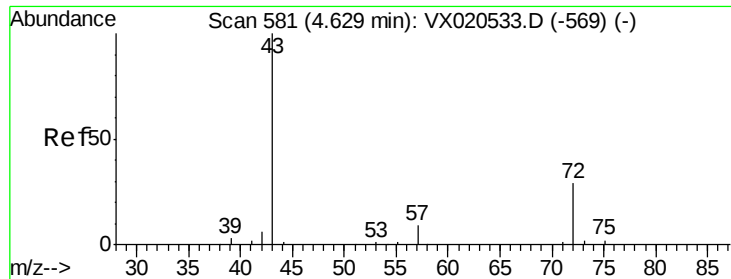
61 130.0 87.8 163.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VX0  
Ion 61.00 (60.70 to 61.70): VX0  
Ion 68.00 (67.70 to 68.70): VX0





#22

2-Butanone

Concen: 6.542 ug/L

RT: 4.64 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

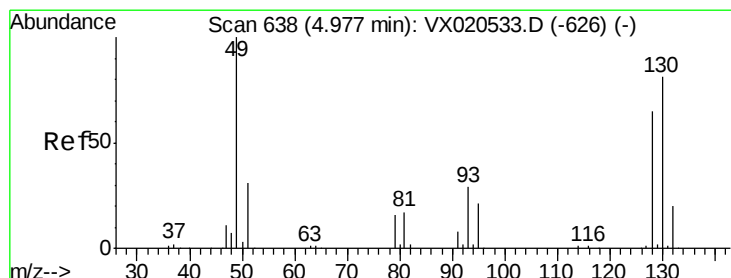
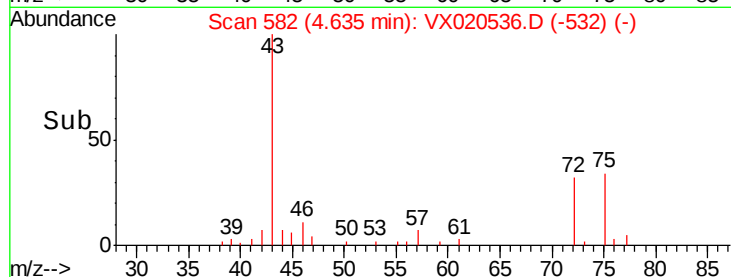
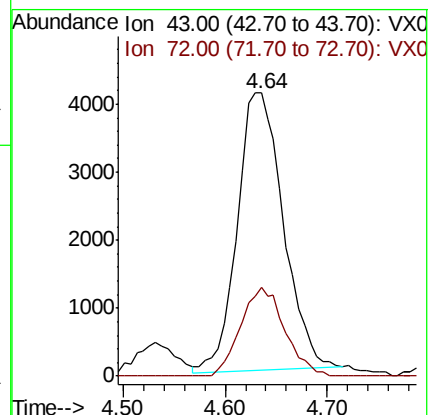
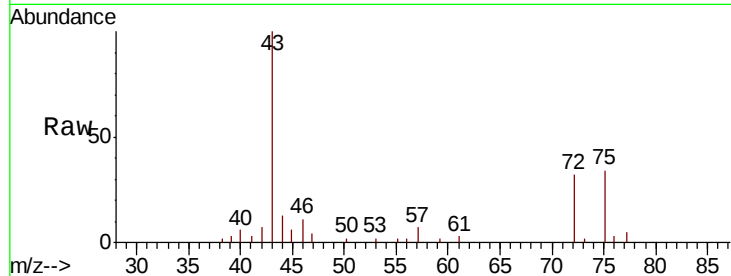
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 43 Resp: 12724

Ion Ratio Lower Upper

43 100

72 30.7 15.3 45.8



#23

Bromochloromethane

Concen: 3.457 ug/L

RT: 4.98 min Scan# 638

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Tgt Ion:128 Resp: 4890

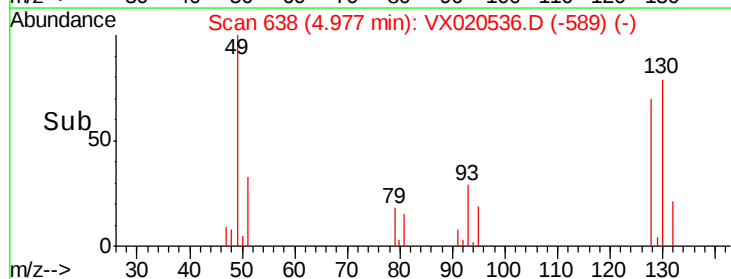
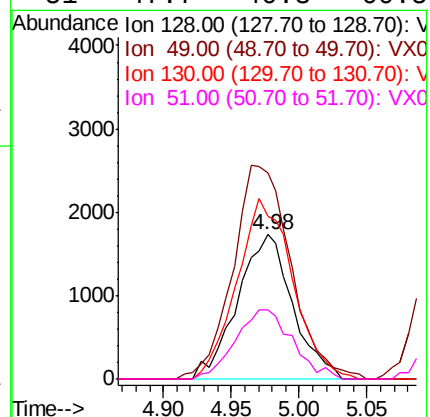
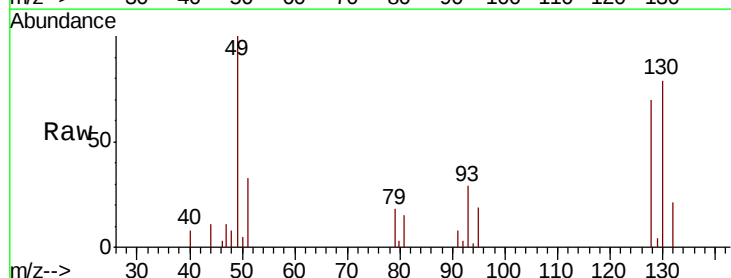
Ion Ratio Lower Upper

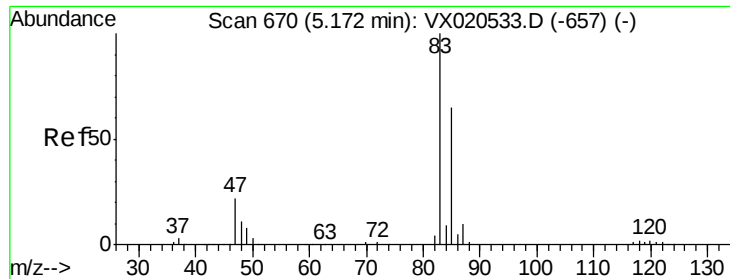
128 100

49 142.6 107.5 199.7

130 112.3 91.1 169.3

51 47.7 40.3 60.5





#25

Chloroform

Concen: 3.585 ug/L

RT: 5.17 min Scan# 669

Delta R.T. -0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

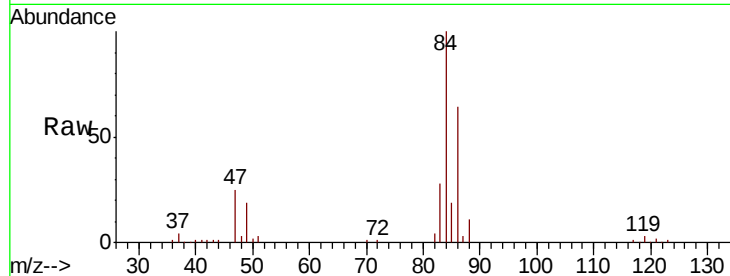
ClientSampleId :

Tot Ion: 83 Resp: 17708

Ion Ratio Lower Upper

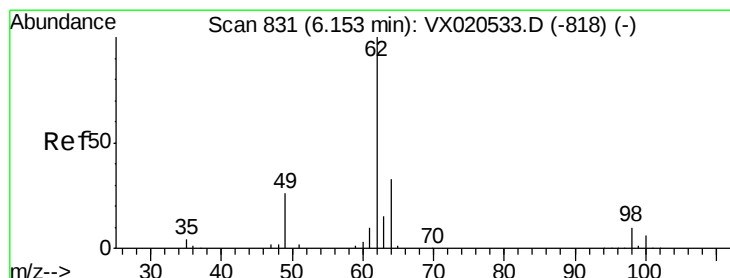
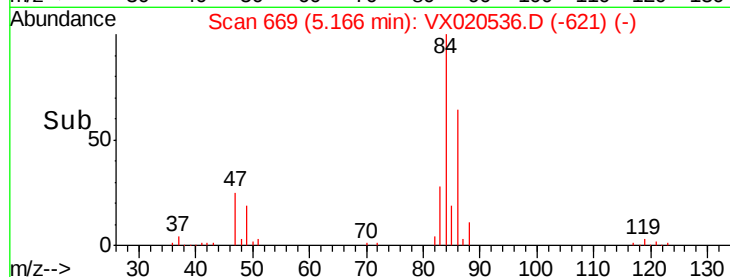
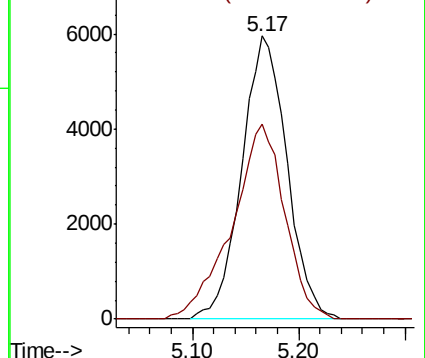
83 100

85 68.7 46.3 85.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#27

1,2-Dichloroethane

Concen: 3.557 ug/L

RT: 6.15 min Scan# 831

Delta R.T. -0.00 min

Lab File: VX020536.D

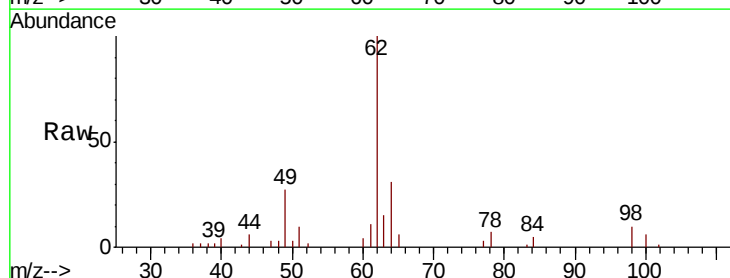
Acq: 08 Jan 2021 12:48

Tgt Ion: 62 Resp: 12955

Ion Ratio Lower Upper

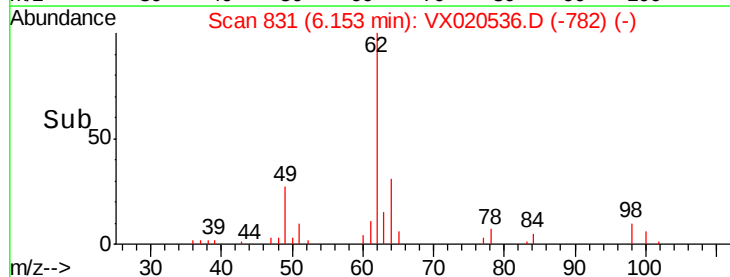
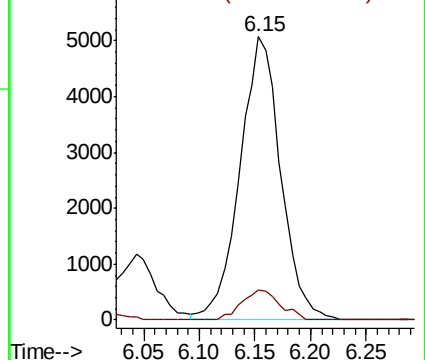
62 100

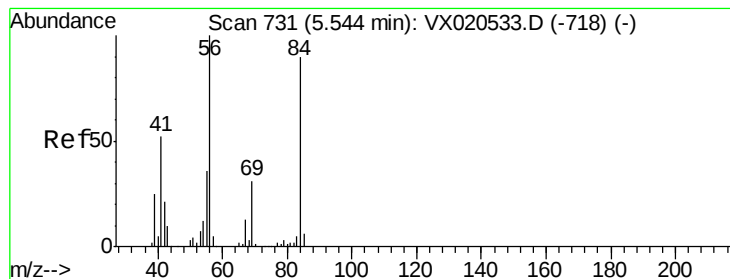
98 10.5 7.9 11.9



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#29

Cyclohexane

Concen: 2.806 ug/L

RT: 5.54 min Scan# 730

Delta R.T. -0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

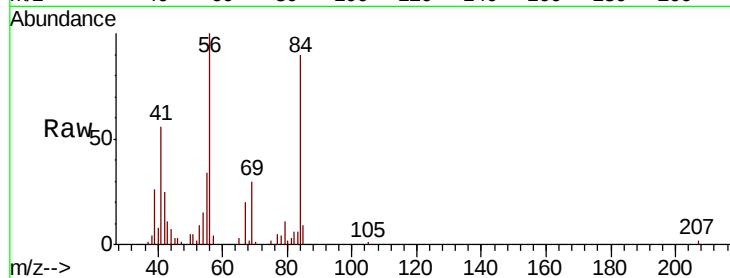
Tot Ion: 56 Resp: 10993

Ion Ratio Lower Upper

56 100

69 30.7 25.7 38.5

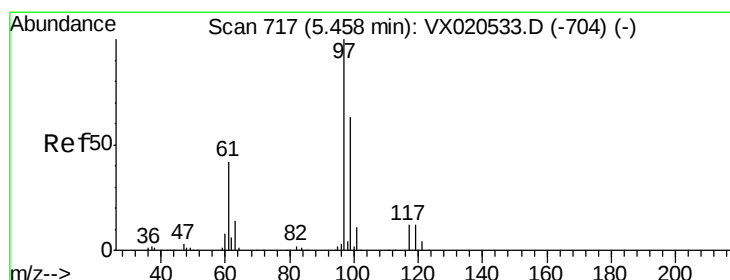
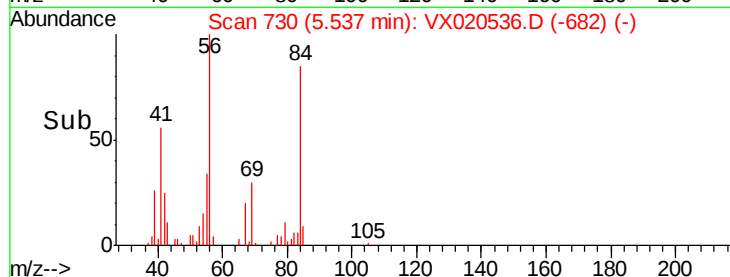
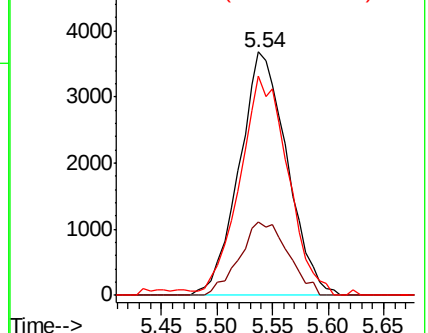
84 90.6 72.4 108.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#30

1,1,1-Trichloroethane

Concen: 3.354 ug/L

RT: 5.46 min Scan# 717

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

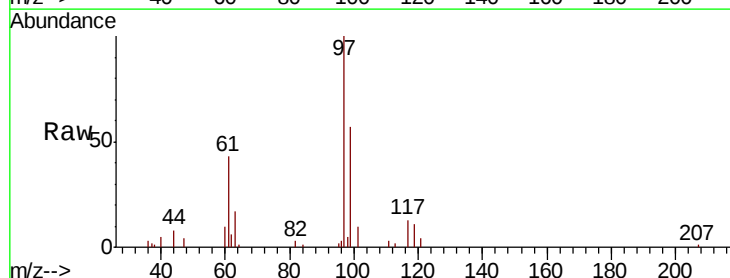
Tgt Ion: 97 Resp: 13620

Ion Ratio Lower Upper

97 100

99 37.9 52.1 78.1#

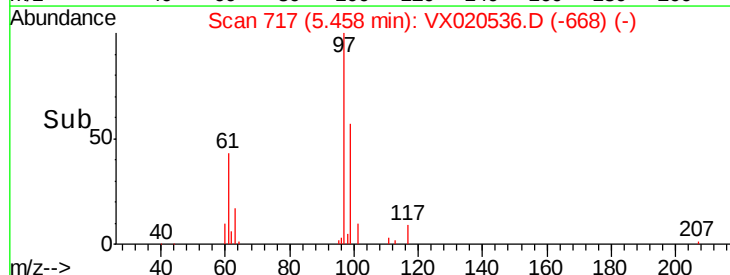
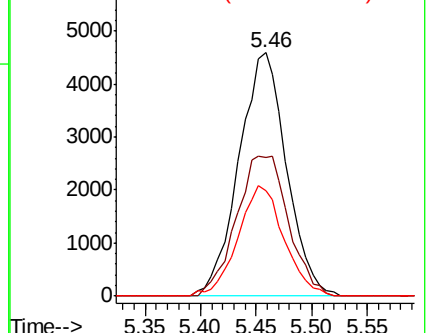
61 43.5 35.3 52.9

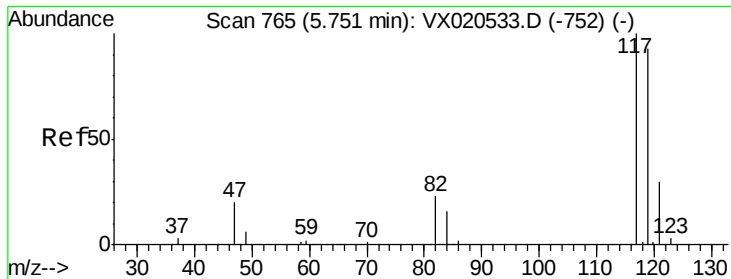


Abundance Ion 97.00 (96.70 to 97.70): VX0

Ion 99.00 (98.70 to 99.70): VX0

Ion 61.05 (60.75 to 61.75): VX0





#31

Carbon tetrachloride

Concen: 3.339 ug/L

RT: 5.74 min Scan# 764

Delta R.T. -0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

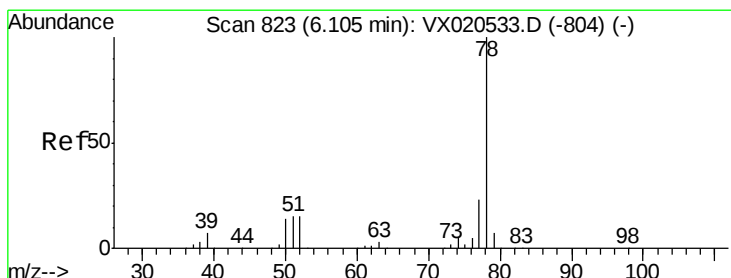
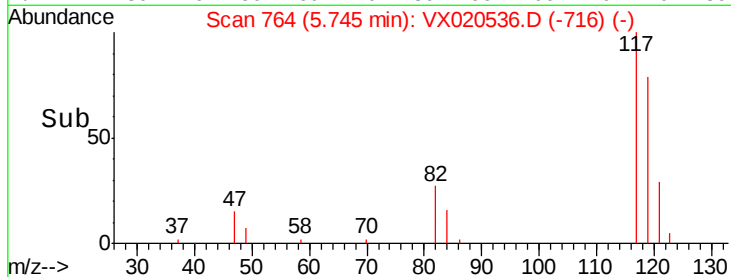
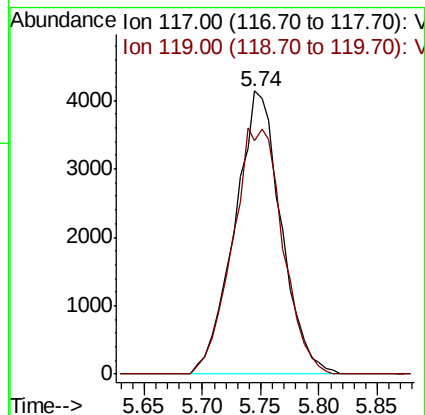
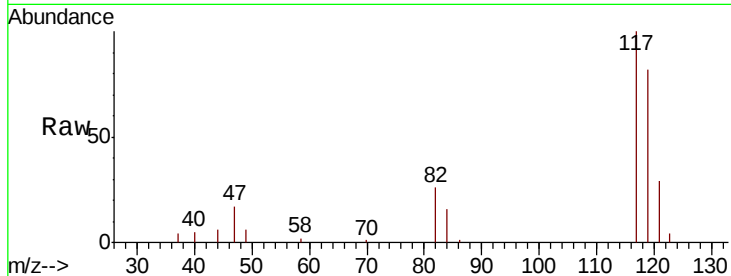
ClientSampleId :

Tot Ion:117 Resp: 11468

Ion Ratio Lower Upper

117 100

119 47.4 77.5 116.3#



#33

Benzene

Concen: 3.400 ug/L

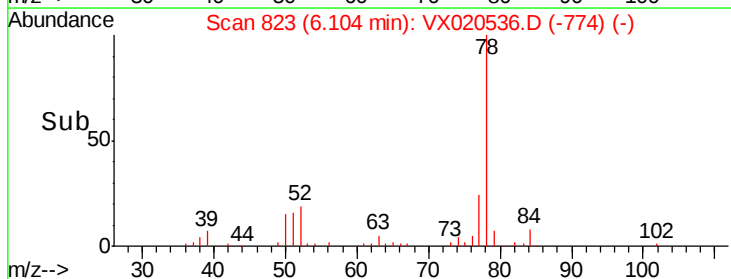
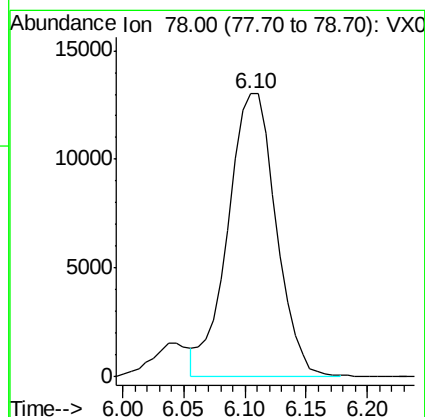
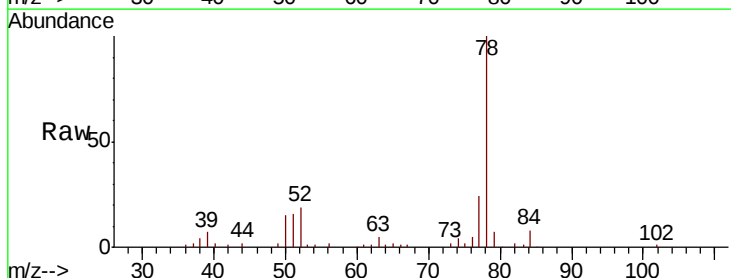
RT: 6.10 min Scan# 823

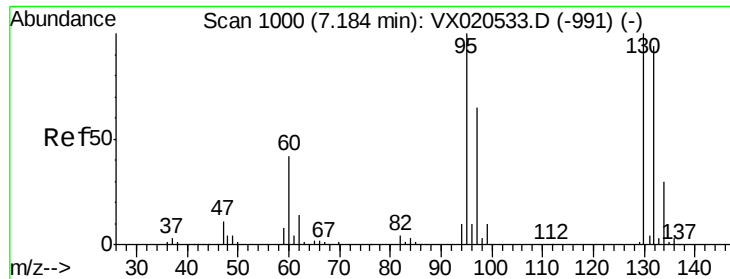
Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Tgt Ion: 78 Resp: 35710

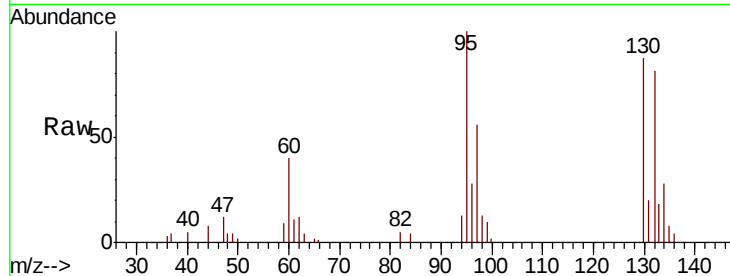




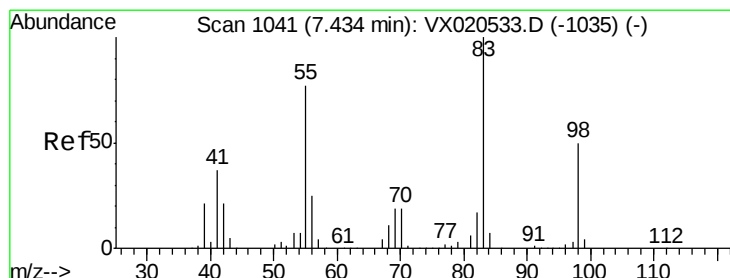
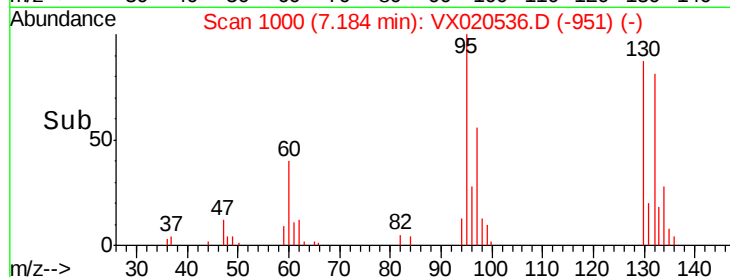
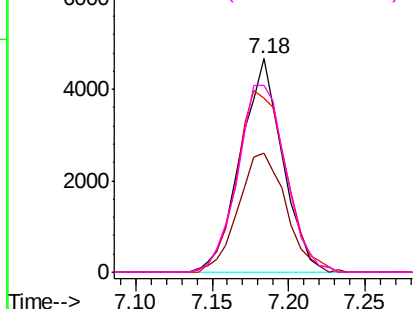
#34  
 Trichloroethene  
 Concen: 3.351 ug/L  
 RT: 7.18 min Scan# 1000  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 95 Resp: 8962  
 Ion Ratio Lower Upper  
 95 100  
 97 55.9 44.5 82.7  
 132 81.4 65.2 121.0  
 130 87.3 67.7 125.7

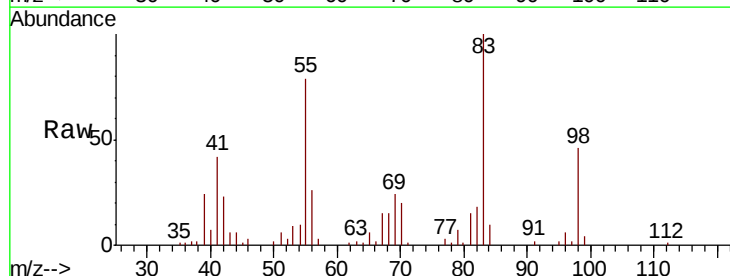


Abundance Ion 95.00 (94.70 to 95.70): VX0  
 Ion 97.00 (96.70 to 97.70): VX0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

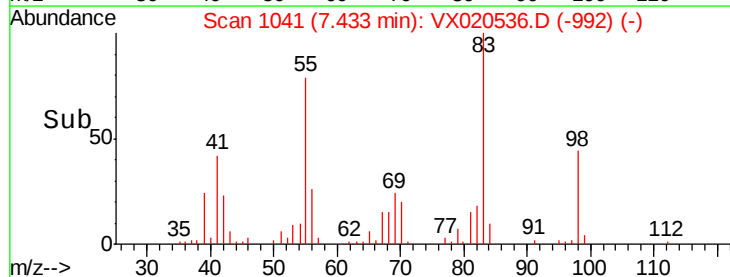
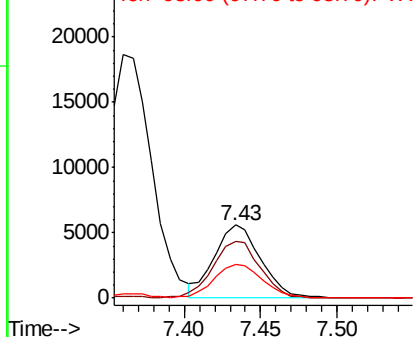


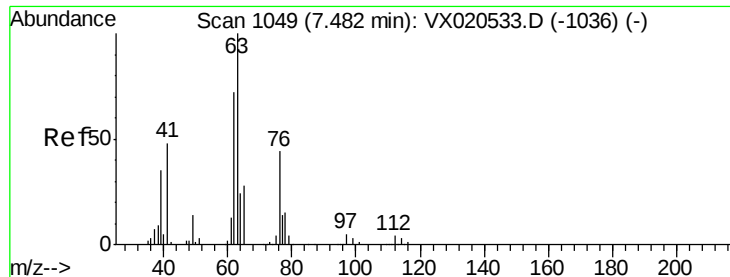
#35  
 Methylcyclohexane  
 Concen: 2.934 ug/L  
 RT: 7.43 min Scan# 1041  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

Tgt Ion: 83 Resp: 11797  
 Ion Ratio Lower Upper  
 83 100  
 55 79.5 61.2 91.8  
 98 48.7 38.7 58.1



Abundance Ion 83.00 (82.70 to 83.70): VX0  
 Ion 55.00 (54.70 to 55.70): VX0  
 Ion 98.00 (97.70 to 98.70): VX0

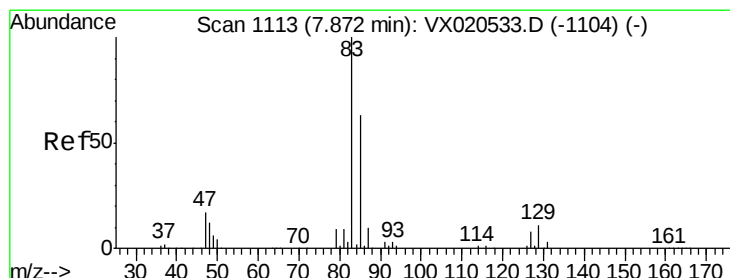
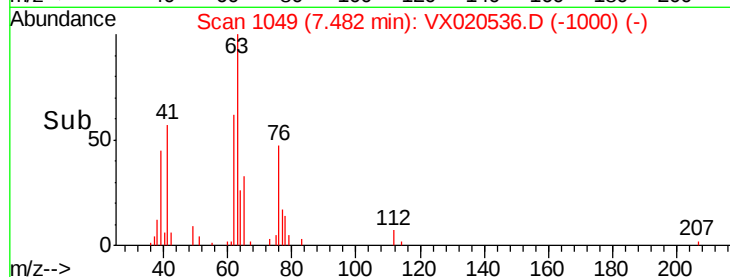
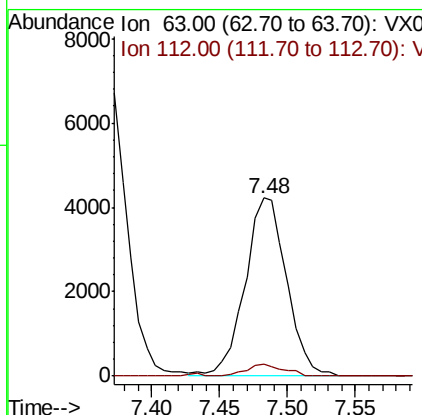
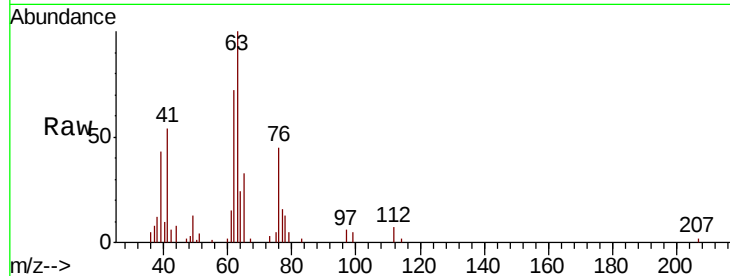




#37  
 1,2-Dichloropropane  
 Concen: 3.404 ug/L  
 RT: 7.48 min Scan# 1049  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

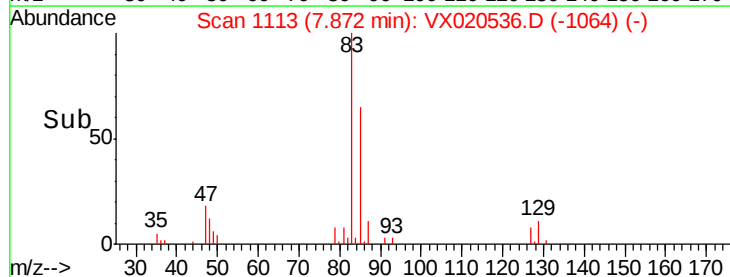
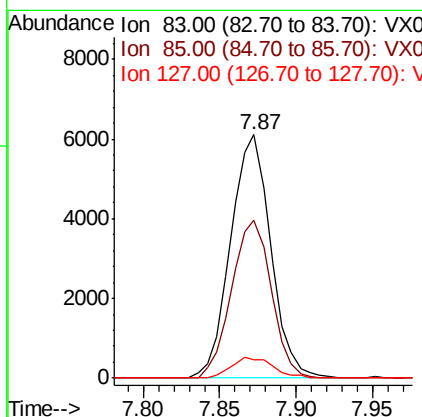
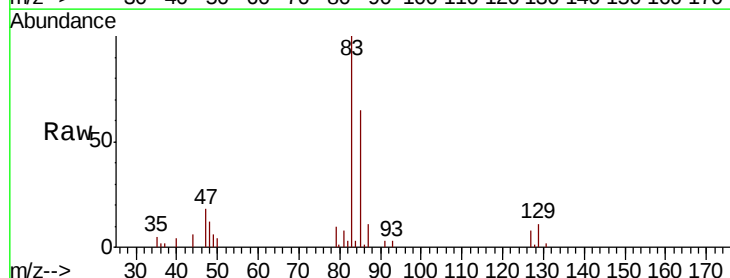
Instrument :  
 MSVOA\_X  
 ClientSampled :

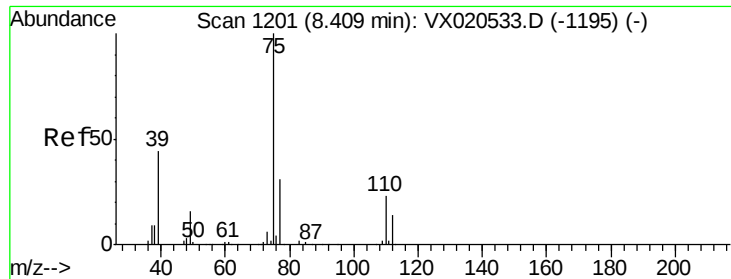
Tot Ion: 63 Resp: 9070  
 Ion Ratio Lower Upper  
 63 100  
 112 6.1 3.6 5.4#



#38  
 Bromodichloromethane  
 Concen: 3.249 ug/L  
 RT: 7.87 min Scan# 1113  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

Tgt Ion: 83 Resp: 11114  
 Ion Ratio Lower Upper  
 83 100  
 85 65.0 45.1 83.7  
 127 7.8 6.6 10.0



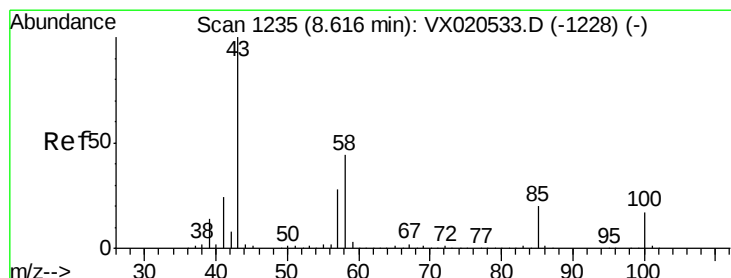
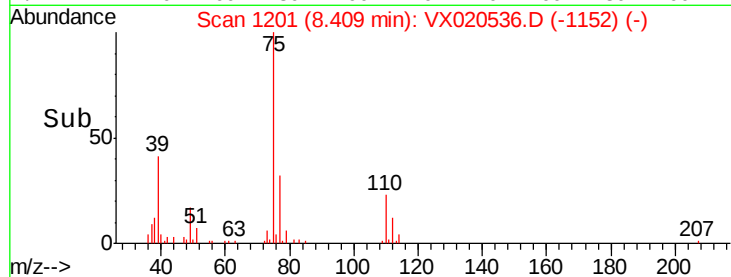
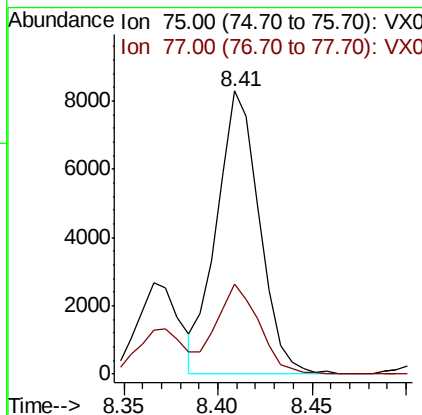
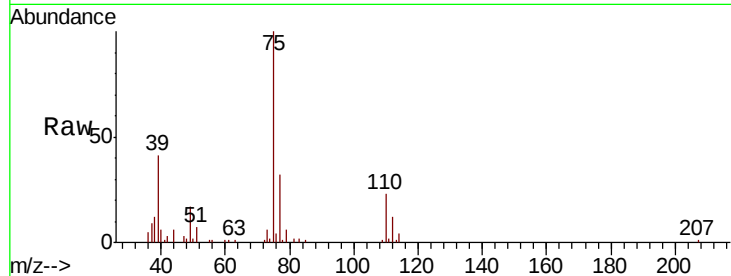


#39

cis-1,3-Dichloropropene  
Concen: 3.267 ug/L  
RT: 8.41 min Scan# 1201  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

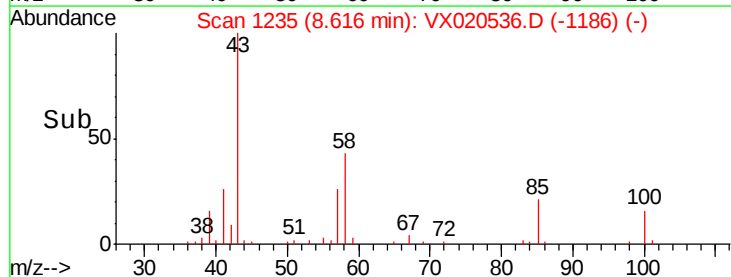
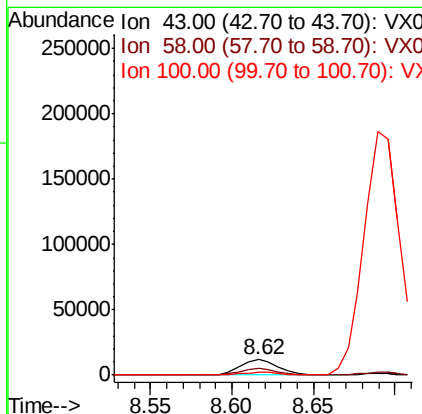
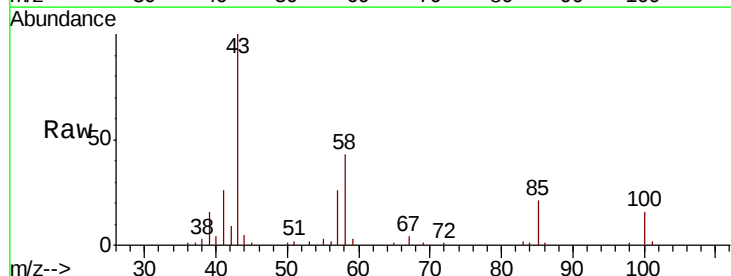
Tot Ion: 75 Resp: 13091  
Ion Ratio Lower Upper  
75 100  
77 32.0 22.7 42.3

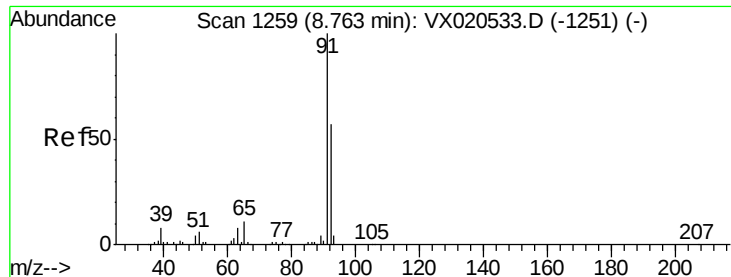


#40

4-Methyl-2-pentanone  
Concen: 5.586 ug/L  
RT: 8.62 min Scan# 1235  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

Tgt Ion: 43 Resp: 19553  
Ion Ratio Lower Upper  
43 100  
58 43.2 35.0 52.4  
100 17.1 14.2 21.4





#42

Toluene

Concen: 3.241 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

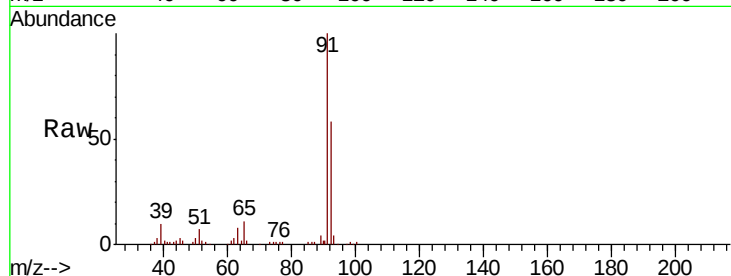
ClientSampleId :

Tot Ion: 91 Resp: 35657

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

25000

20000

15000

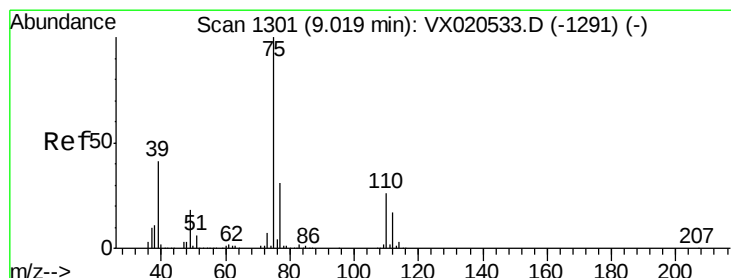
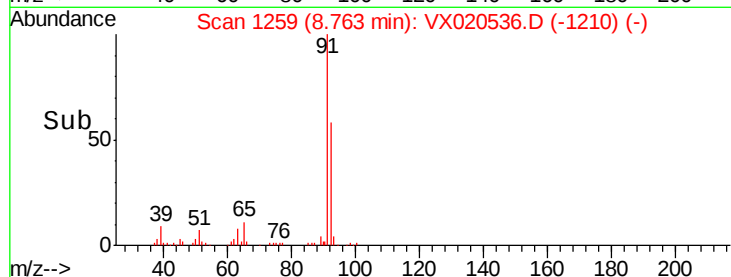
10000

5000

0

8.70 8.75 8.80 8.85

Time-->



#44

trans-1,3-Dichloropropene

Concen: 3.241 ug/L

RT: 9.02 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VX020536.D

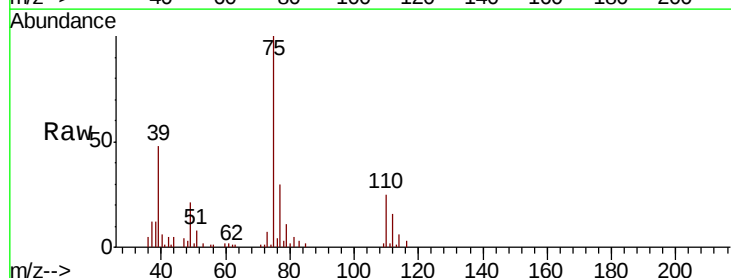
Acq: 08 Jan 2021 12:48

Tgt Ion: 75 Resp: 12677

Ion Ratio Lower Upper

75 100

77 30.5 22.4 41.6



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

8000

6000

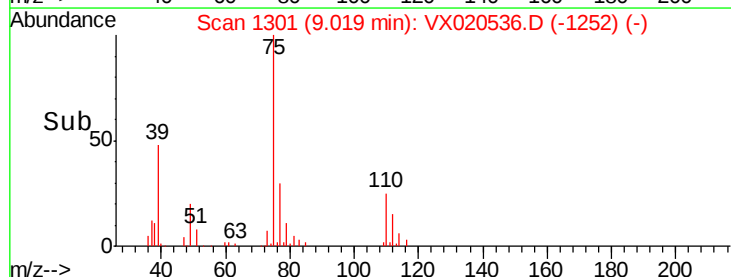
4000

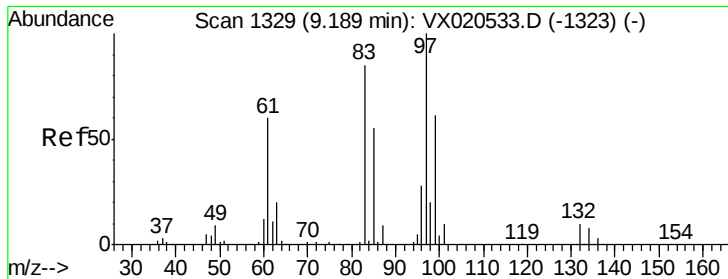
2000

0

9.00 9.05

Time-->





#45

1,1,2-Trichloroethane

Concen: 3.329 ug/L

RT: 9.20 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 97 Resp: 8777

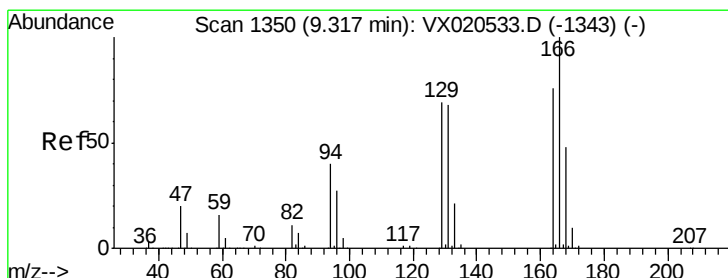
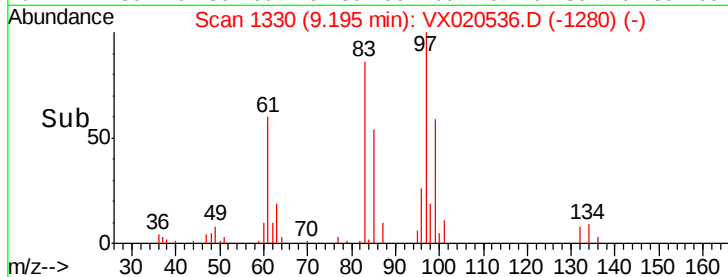
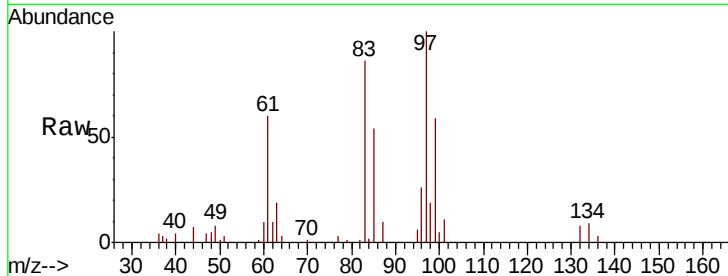
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 58.6  | 44.0  | 81.6  |
| 83  | 85.7  | 60.8  | 113.0 |
| 85  | 53.8  | 39.4  | 73.2  |

Abundance Ion 97.00 (96.70 to 97.70): VX0

Ion 99.00 (98.70 to 99.70): VX0

Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#46

Tetrachloroethene

Concen: 3.405 ug/L

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Tgt Ion: 164 Resp: 7059

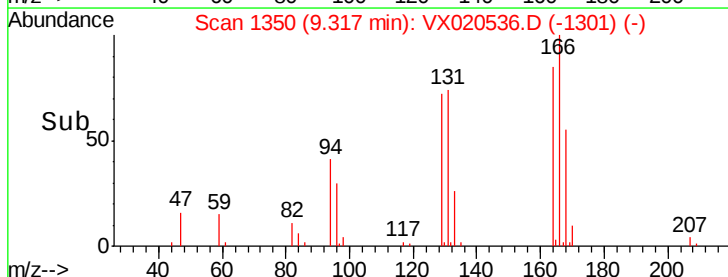
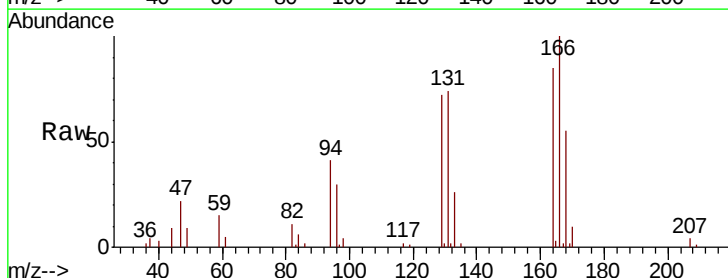
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 84.7  | 65.6  | 121.8 |
| 131 | 87.1  | 63.7  | 118.3 |
| 166 | 117.8 | 93.0  | 172.6 |

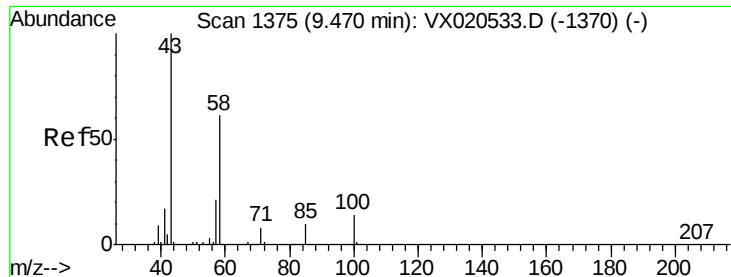
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

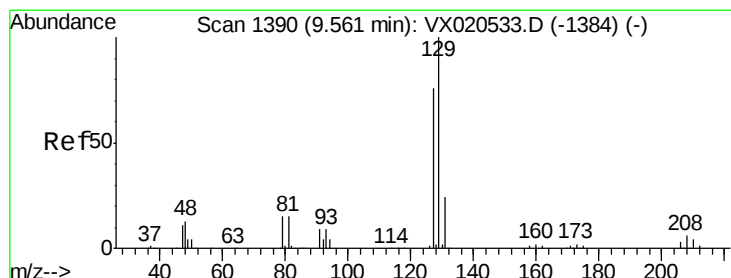
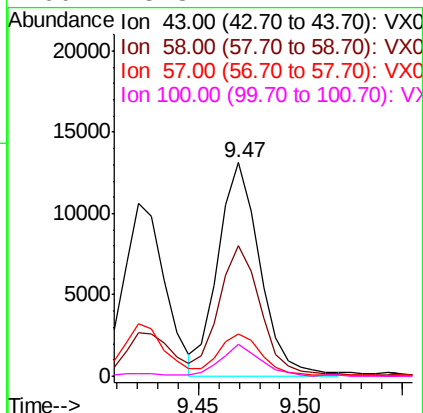
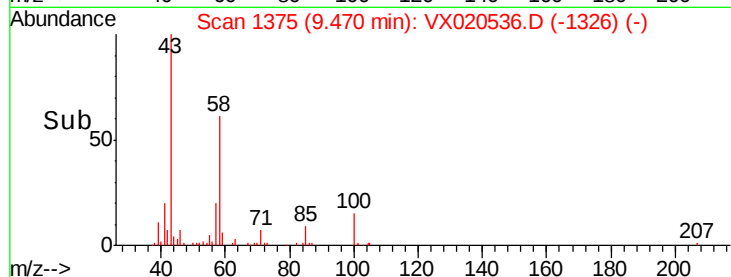
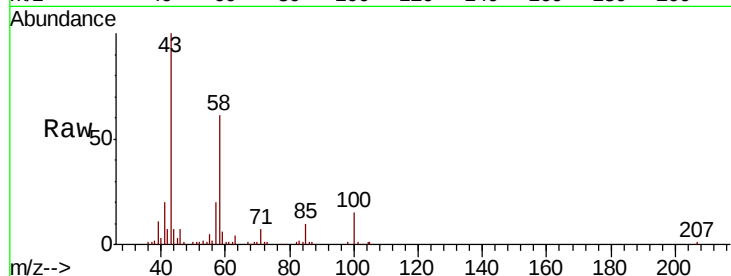




#48  
2-Hexanone  
Concen: 6.810 ug/L  
RT: 9.47 min Scan# 1375  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

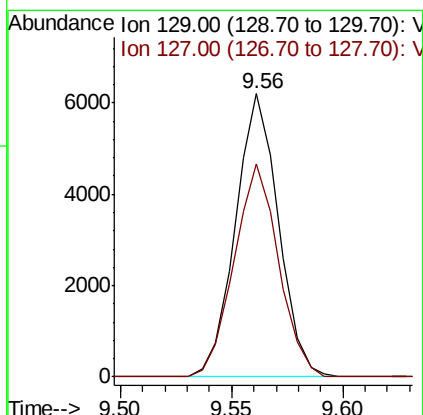
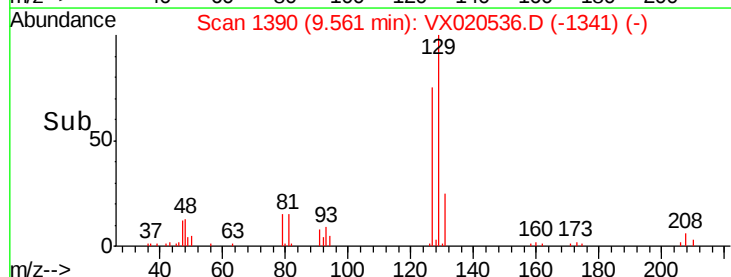
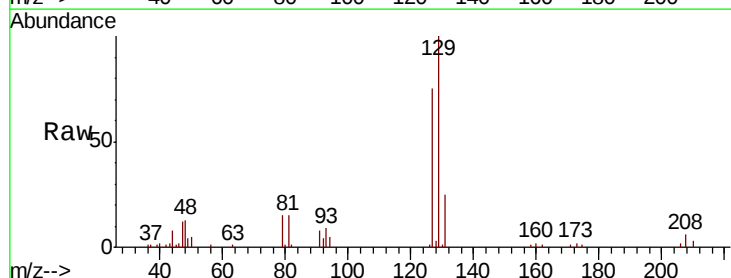
Instrument :  
MSVOA\_X  
ClientSampleId :

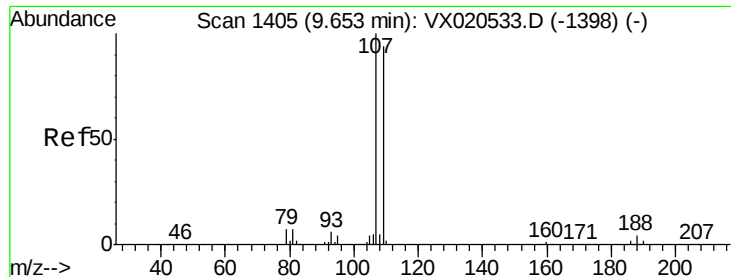
Tot Ion: 43 Resp: 18836  
Ion Ratio Lower Upper  
43 100  
58 60.3 50.1 75.1  
57 20.1 17.3 25.9  
100 13.8 11.4 17.2



#49  
Dibromochloromethane  
Concen: 3.090 ug/L  
RT: 9.56 min Scan# 1390  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

Tgt Ion: 129 Resp: 8353  
Ion Ratio Lower Upper  
129 100  
127 75.1 52.5 97.5

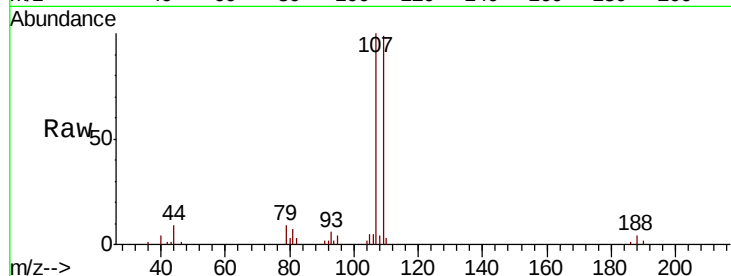




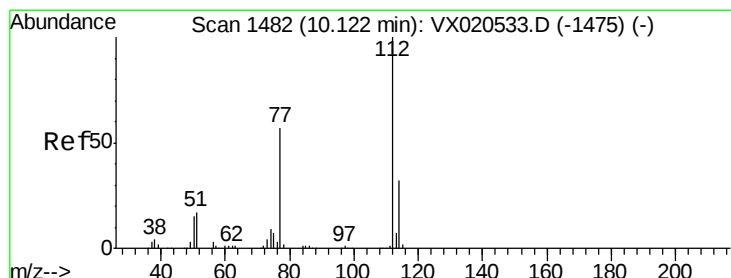
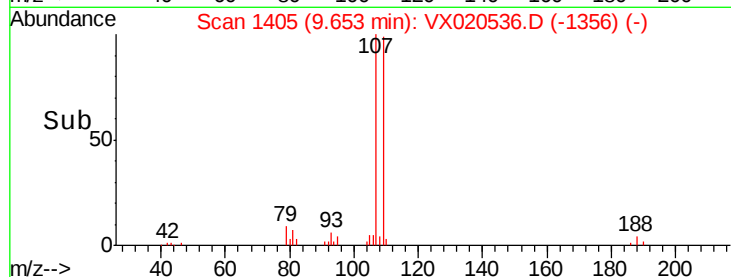
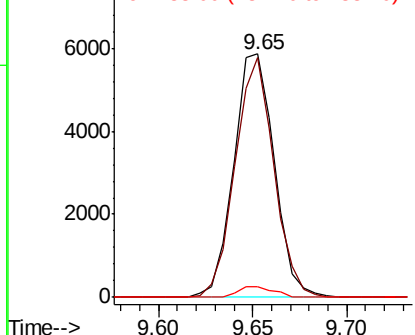
#50  
1,2-Dibromoethane  
Concen: 3.204 ug/L  
RT: 9.65 min Scan# 1405  
Delta R.T. -0.00 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:107 Resp: 8751  
Ion Ratio Lower Upper  
107 100  
109 98.7 66.4 123.4  
188 4.5 3.2 4.8

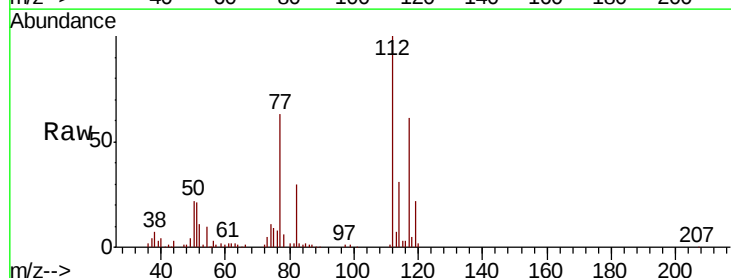


Abundance Ion 107.00 (106.70 to 107.70): V  
Ion 109.00 (108.70 to 109.70): V  
Ion 188.00 (187.70 to 188.70): V

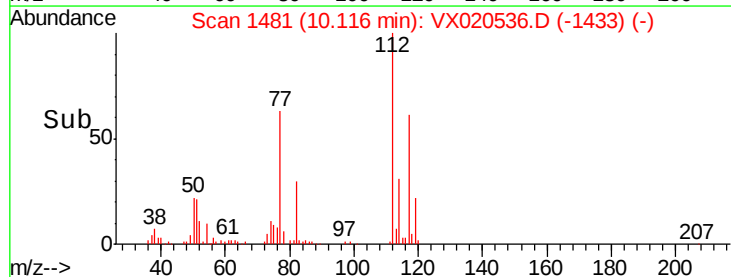
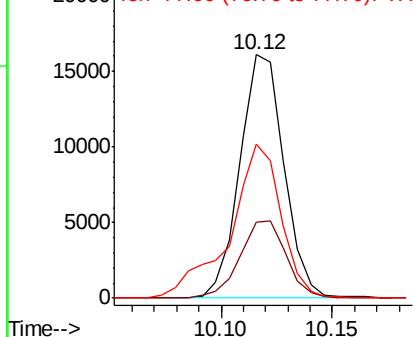


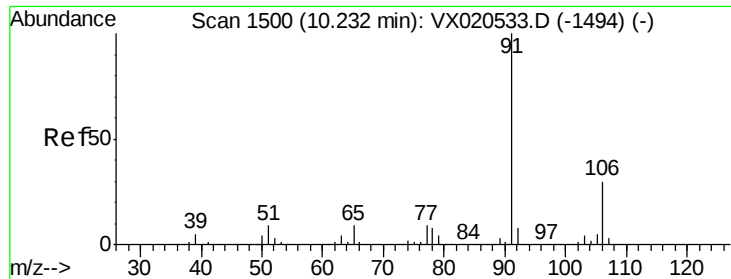
#51  
Chlorobenzene  
Concen: 3.206 ug/L  
RT: 10.12 min Scan# 1481  
Delta R.T. -0.01 min  
Lab File: VX020536.D  
Acq: 08 Jan 2021 12:48

Tgt Ion:112 Resp: 22336  
Ion Ratio Lower Upper  
112 100  
114 31.4 23.2 43.2  
77 63.0 48.4 72.6



Abundance Ion 112.00 (111.70 to 112.70): V  
Ion 114.00 (113.70 to 114.70): V  
Ion 77.00 (76.70 to 77.70): VX0





#52

Ethylbenzene

Concen: 2.872 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

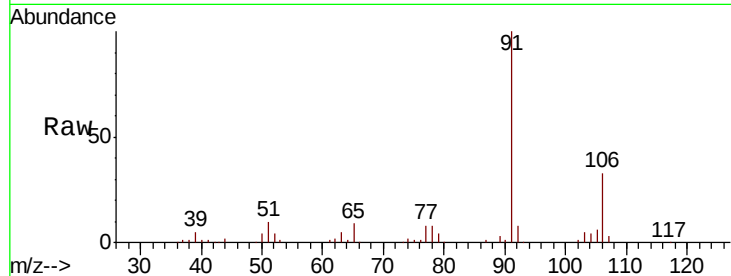
ClientSampleId :

Tot Ion: 91 Resp: 33795

Ion Ratio Lower Upper

91 100

106 32.5 21.0 39.0



Abundance Ion 91.00 (90.70 to 91.70): VX020533.D (-1494) (-)

Ion 106.00 (105.70 to 106.70): VX020533.D (-1494) (-)

10.23

25000

20000

15000

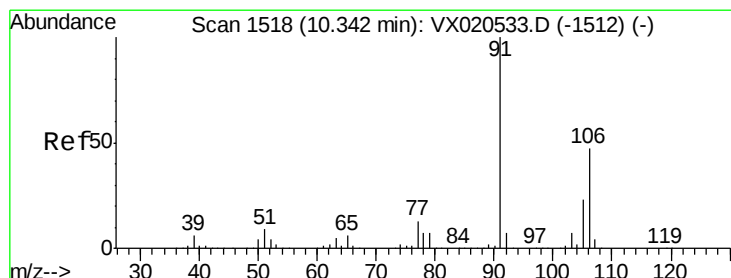
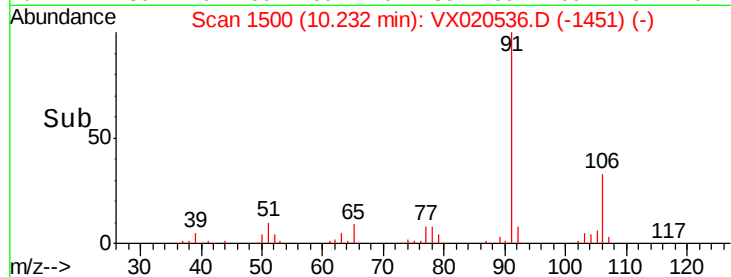
10000

5000

0

Time-->

10.20 10.25 10.30



#53

m,p-Xylene

Concen: 2.751 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX020536.D

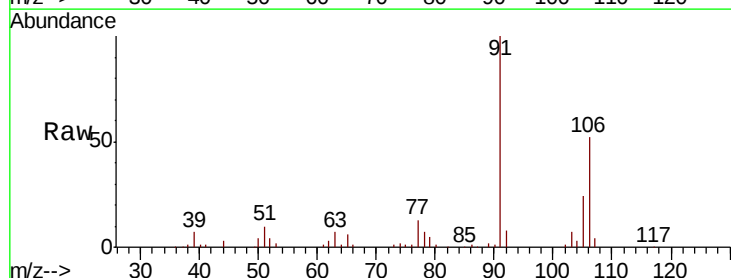
Acq: 08 Jan 2021 12:48

Tgt Ion: 106 Resp: 12094

Ion Ratio Lower Upper

106 100

91 191.7 142.5 264.6



Abundance Ion 106.00 (105.70 to 106.70): VX020533.D (-1512) (-)

Ion 91.00 (90.70 to 91.70): VX020533.D (-1512) (-)

10.34

20000

15000

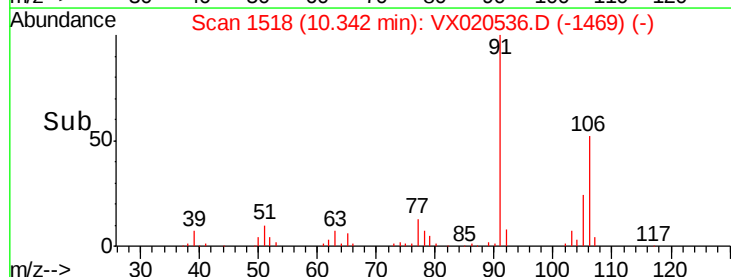
10000

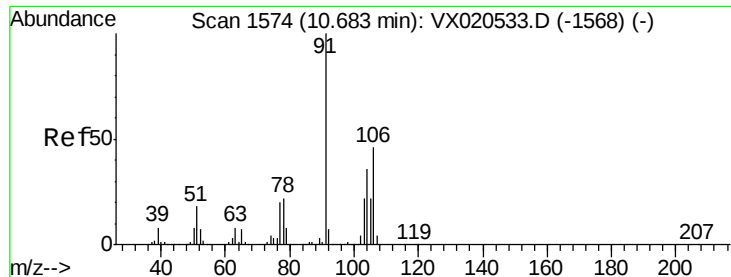
5000

0

Time-->

10.30 10.35 10.40





#54

o-Xylene

Concen: 2.662 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

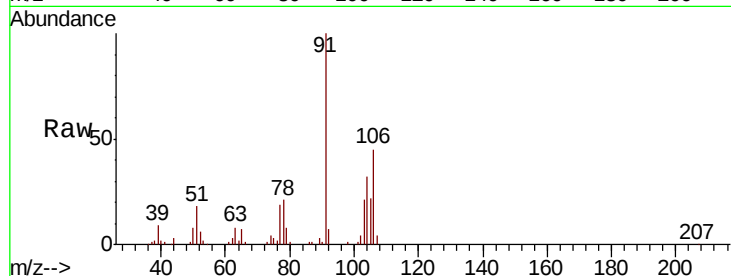
ClientSampled :

Tot Ion:106 Resp: 11357

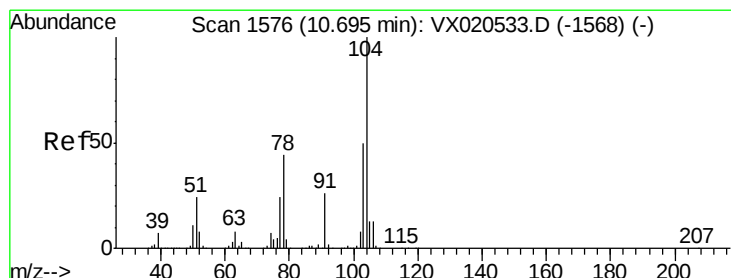
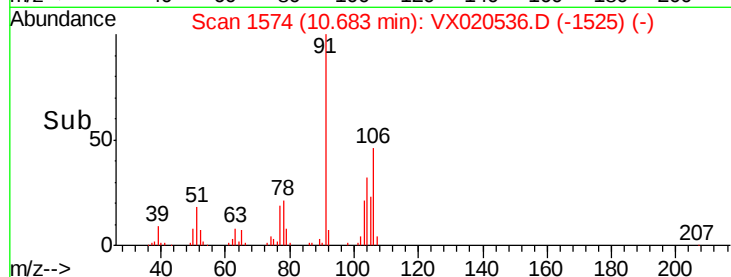
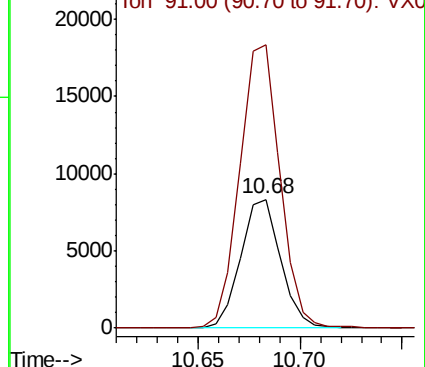
Ion Ratio Lower Upper

106 100

91 219.9 156.2 290.0



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 2.515 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VX020536.D

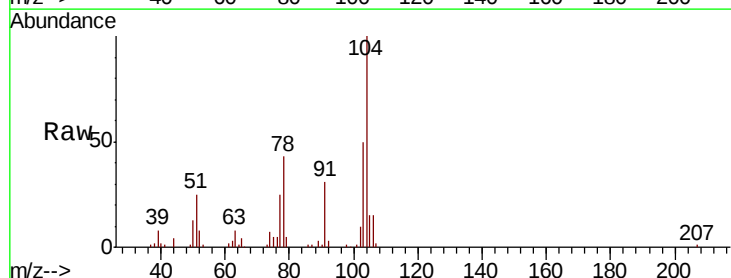
Acq: 08 Jan 2021 12:48

Tgt Ion:104 Resp: 18164

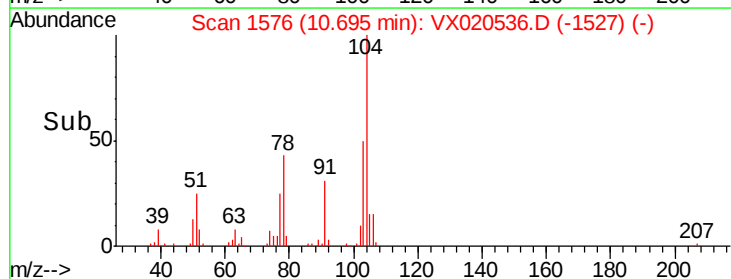
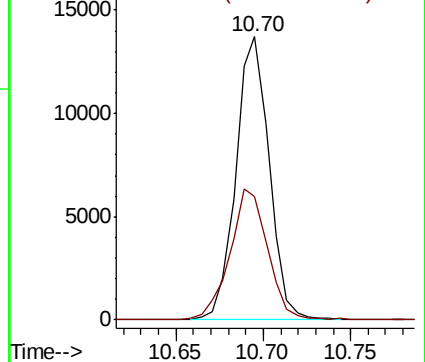
Ion Ratio Lower Upper

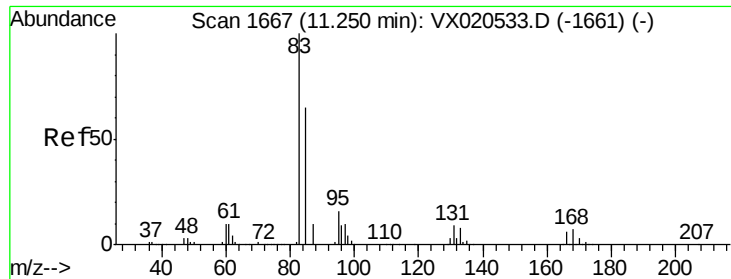
104 100

78 43.5 30.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

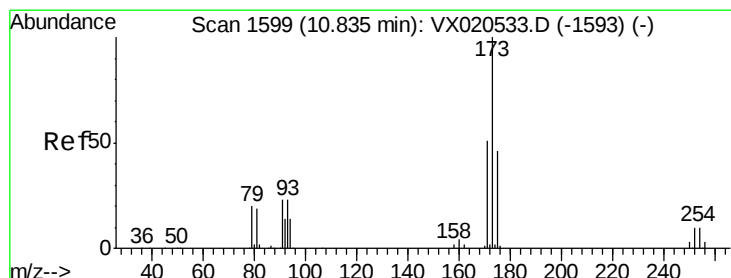
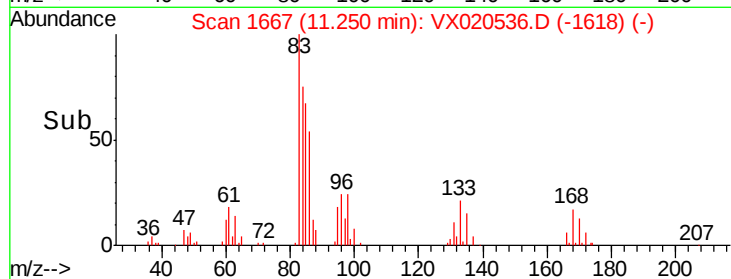
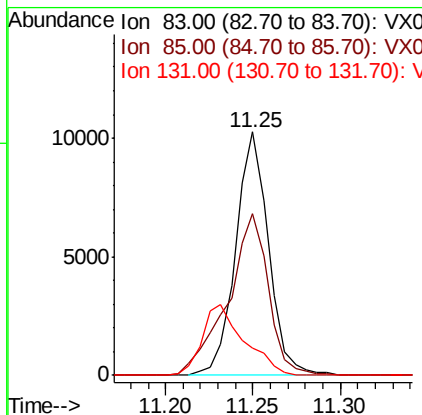
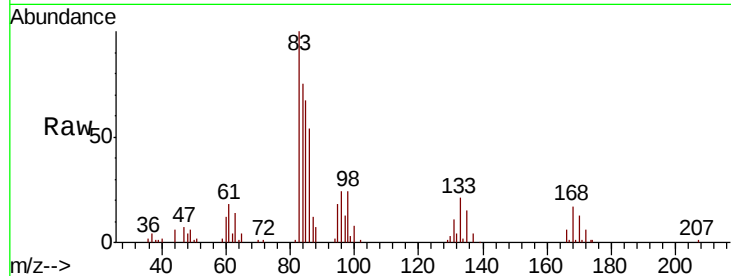




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 3.212 ug/L  
 RT: 11.25 min Scan# 1667  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

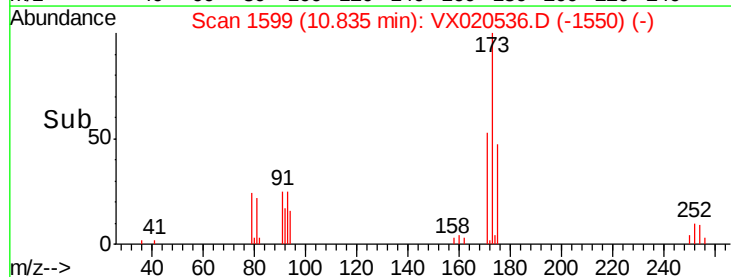
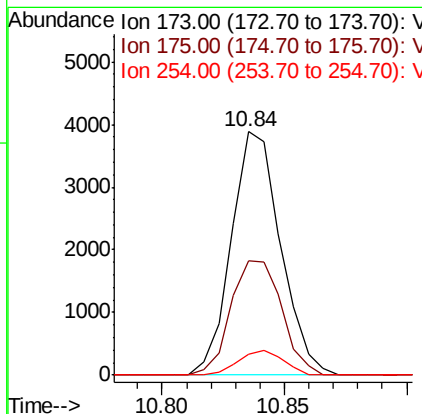
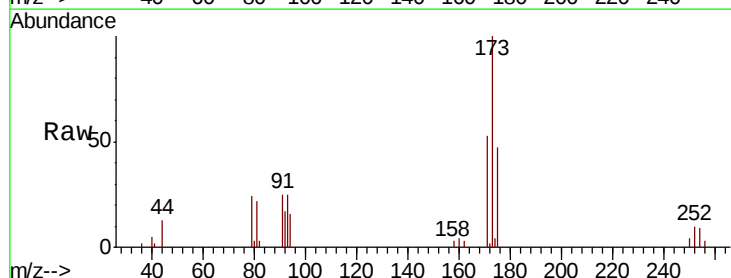
Instrument :  
 MSVOA\_X  
 ClientSampleId :

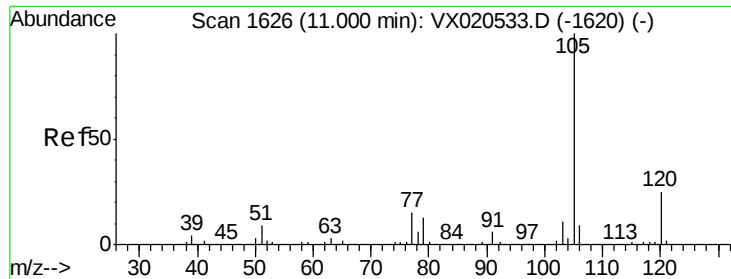
| Tot Ion   | 83   | Resp | 13439 |
|-----------|------|------|-------|
| Ion Ratio | 100  |      |       |
| Lower     | 44.7 |      |       |
| Upper     | 82.9 |      |       |
| 85        | 66.5 |      |       |
| 131       | 11.1 |      |       |
|           | 7.8  |      |       |
|           | 11.8 |      |       |



#59  
 Bromoform  
 Concen: 3.091 ug/L  
 RT: 10.84 min Scan# 1599  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

| Tgt Ion   | 173  | Resp | 5419 |
|-----------|------|------|------|
| Ion Ratio | 100  |      |      |
| Lower     | 39.4 |      |      |
| Upper     | 59.2 |      |      |
| 175       | 48.4 |      |      |
| 254       | 9.4  |      |      |
|           | 8.6  |      |      |
|           | 13.0 |      |      |





#60

Isopropylbenzene

Concen: 2.855 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

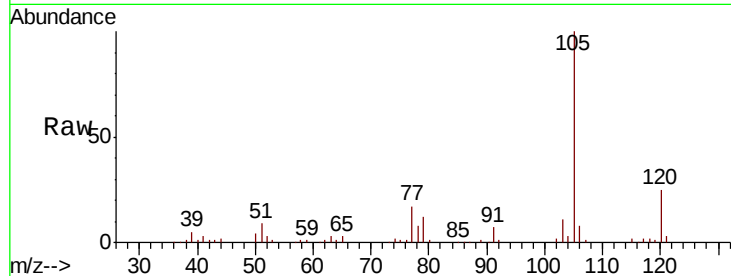
Tot Ion: 105 Resp: 28253

Ion Ratio Lower Upper

105 100

120 26.7 21.2 31.8

77 16.8 12.6 18.8

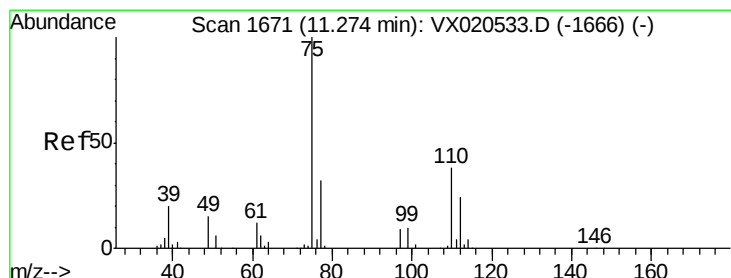
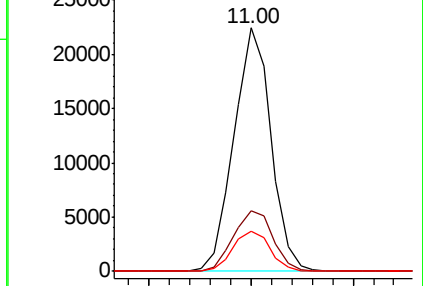
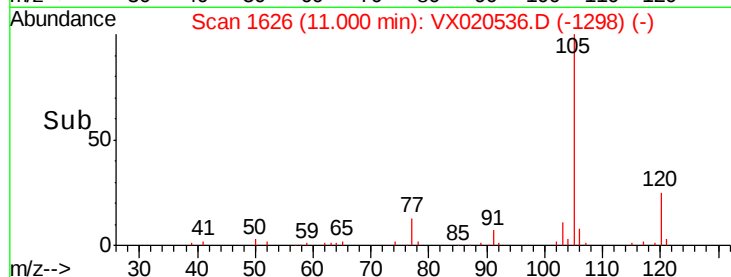


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V

Time-->



#61

1,2,3-Trichloropropane

Concen: 3.624 ug/L

RT: 11.27 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

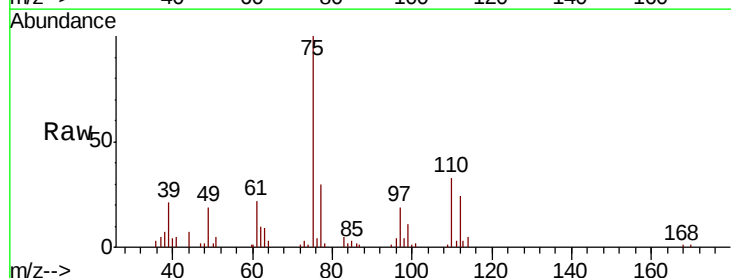
Tgt Ion: 75 Resp: 11093

Ion Ratio Lower Upper

75 100

77 32.3 26.2 39.2

110 38.1 31.8 47.8

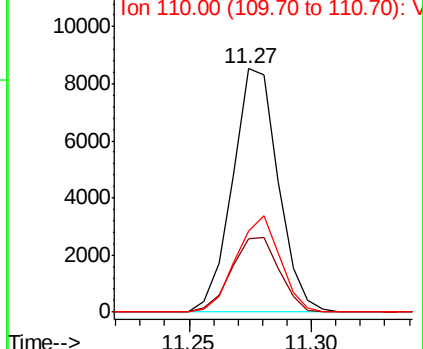
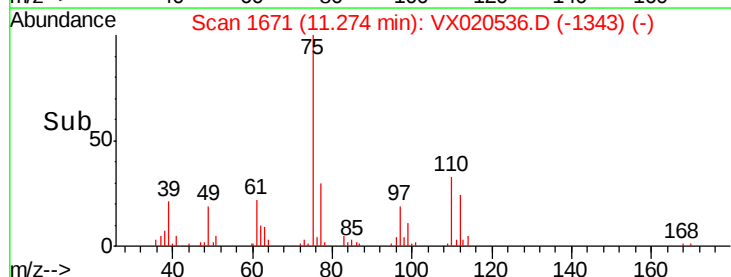


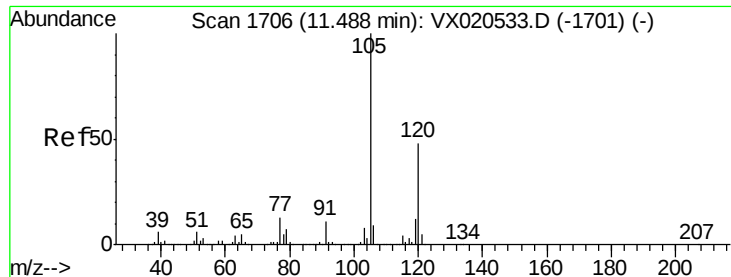
Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 110.00 (109.70 to 110.70): V

Time-->





#62

1,3,5-Trimethylbenzene

Concen: 2.611 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

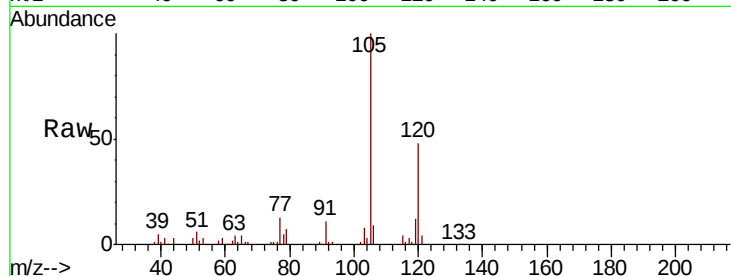
ClientSampleId :

Tot Ion:105 Resp: 21069

Ion Ratio Lower Upper

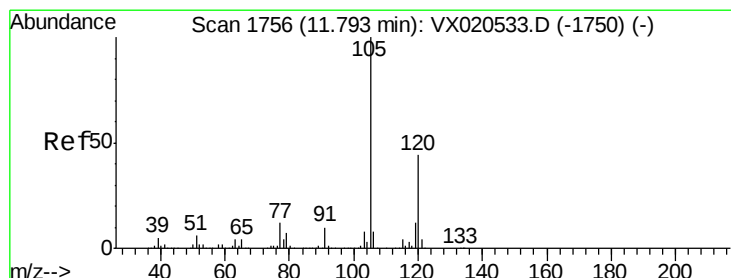
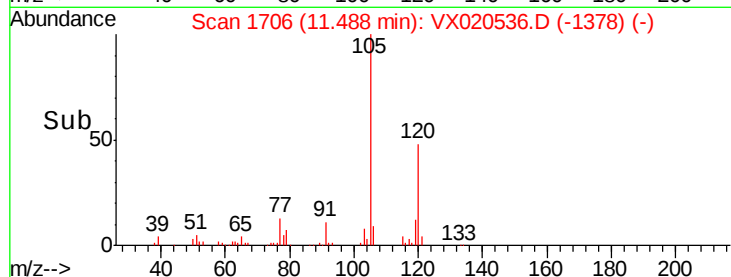
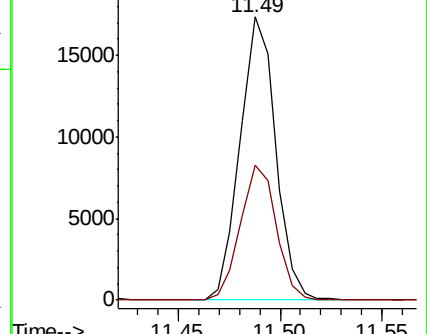
105 100

120 48.1 38.0 57.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.476 ug/L

RT: 11.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VX020536.D

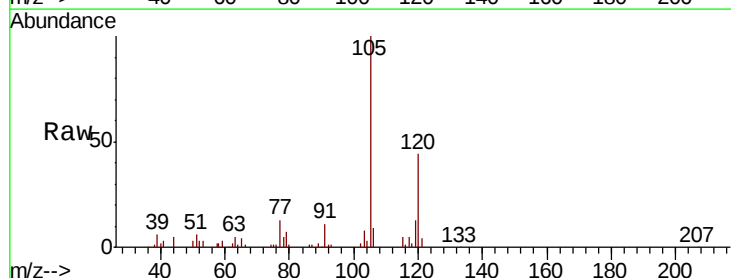
Acq: 08 Jan 2021 12:48

Tgt Ion:105 Resp: 20169

Ion Ratio Lower Upper

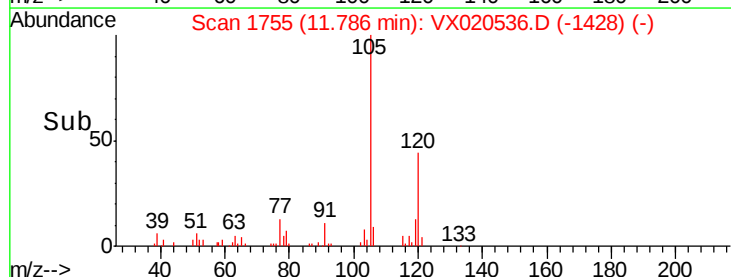
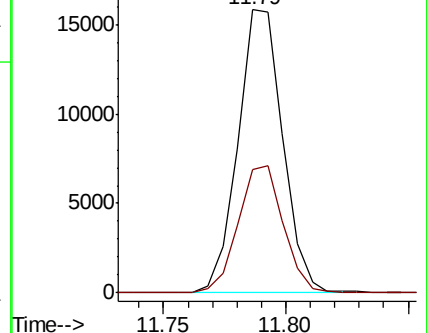
105 100

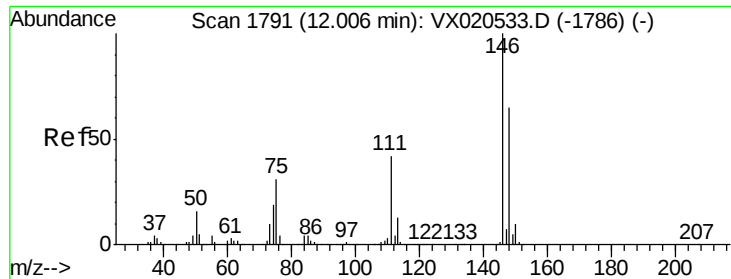
120 45.1 36.4 54.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 3.107 ug/L

RT: 12.01 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

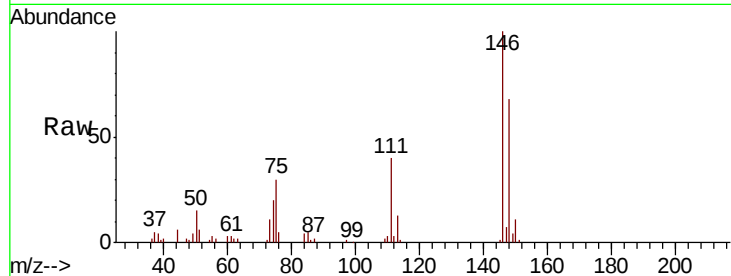
Tot Ion:146 Resp: 14343

Ion Ratio Lower Upper

146 100

111 40.5 28.9 53.7

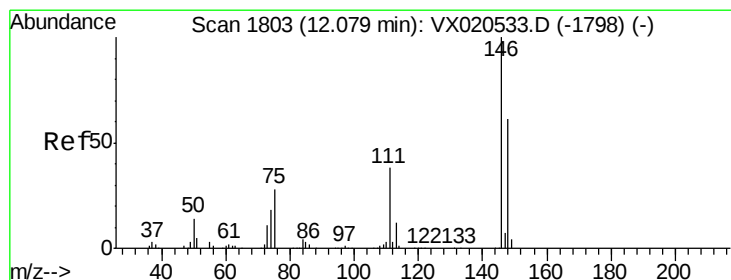
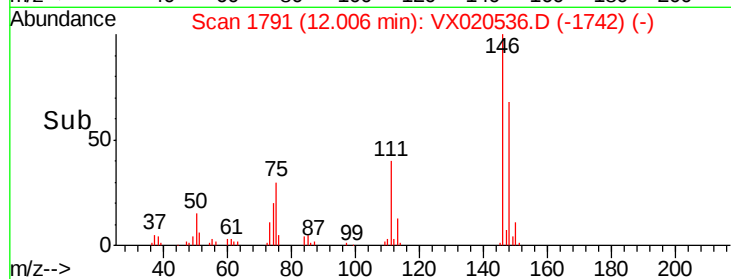
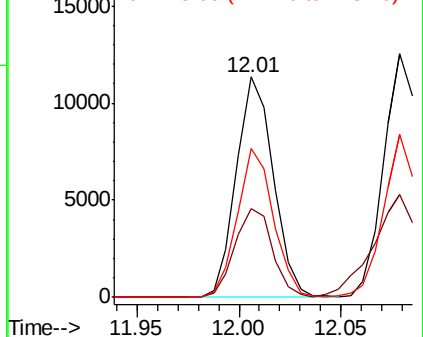
148 67.9 47.7 88.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 3.349 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

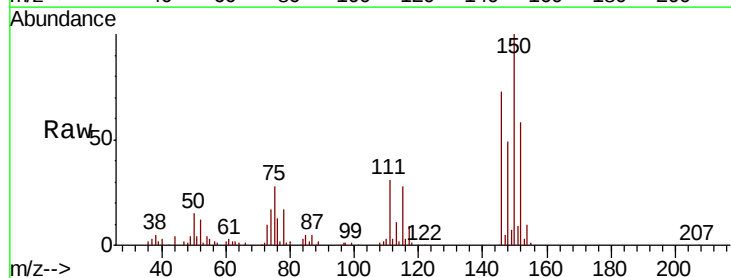
Tgt Ion:146 Resp: 15618

Ion Ratio Lower Upper

146 100

111 42.1 28.7 53.3

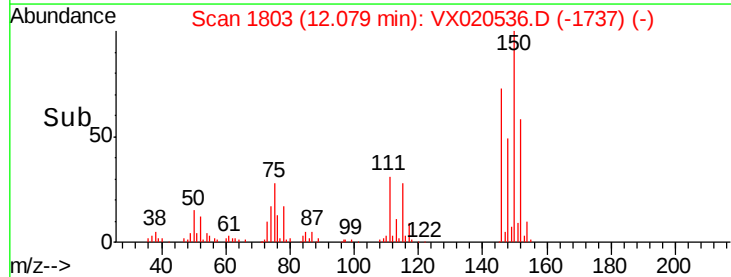
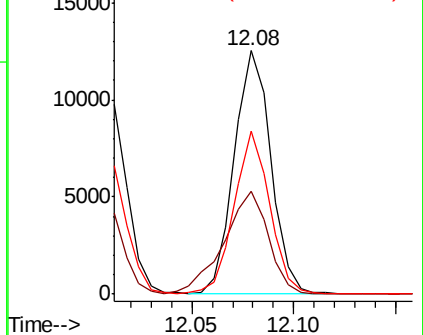
148 66.8 45.8 85.2

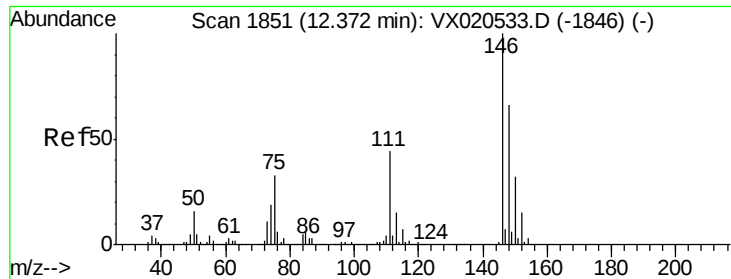


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#67

1,2-Dichlorobenzene

Concen: 3.426 ug/L

RT: 12.37 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

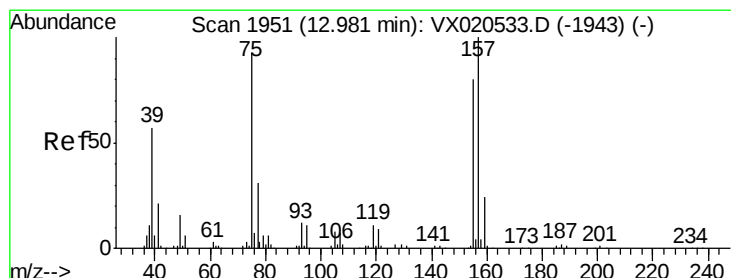
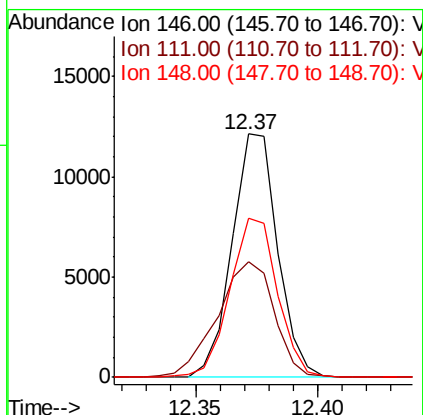
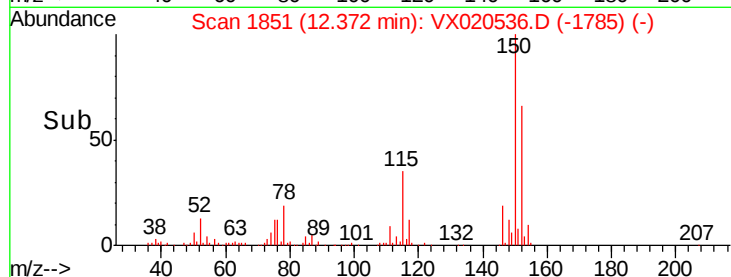
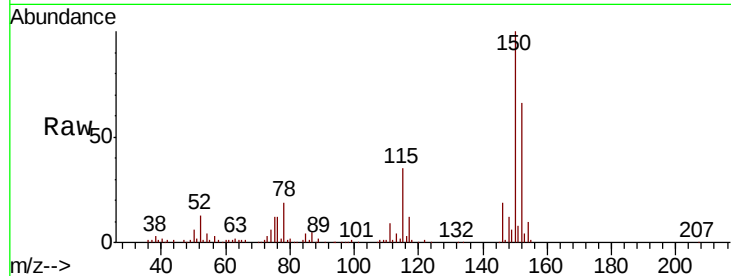
Tot Ion:146 Resp: 15767

Ion Ratio Lower Upper

146 100

111 47.5 33.8 50.8

148 65.5 51.4 77.2



#68

1,2-Dibromo-3-chloropropane

Concen: 3.043 ug/L

RT: 12.98 min Scan# 1951

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

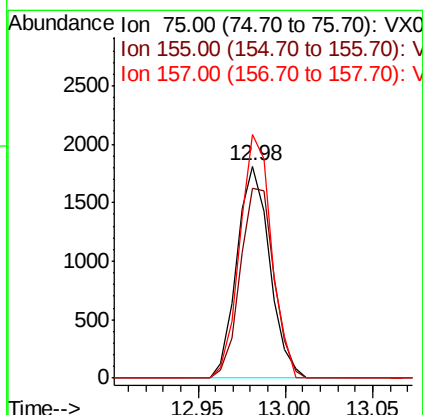
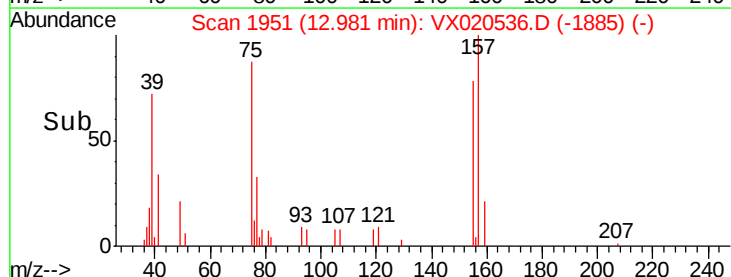
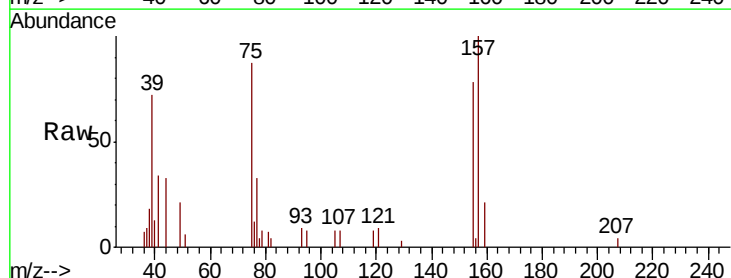
Tgt Ion: 75 Resp: 2356

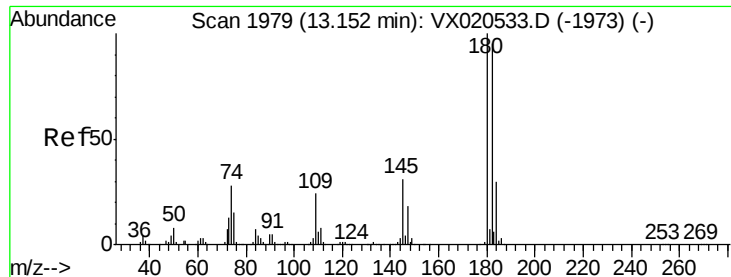
Ion Ratio Lower Upper

75 100

155 89.5 65.3 97.9

157 114.7 80.5 120.7

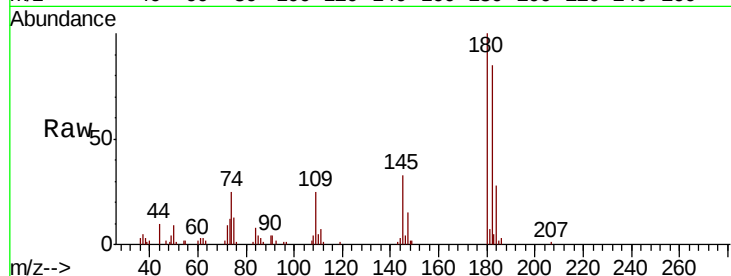




#69  
 1,3,5-Trichlorobenzene  
 Concen: 3.139 ug/L  
 RT: 13.15 min Scan# 1979  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

Instrument :  
 MSVOA\_X  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.3  | 74.8  | 112.2 |
| 184     | 30.9  | 24.1  | 36.1  |
| 145     | 31.0  | 23.7  | 35.5  |



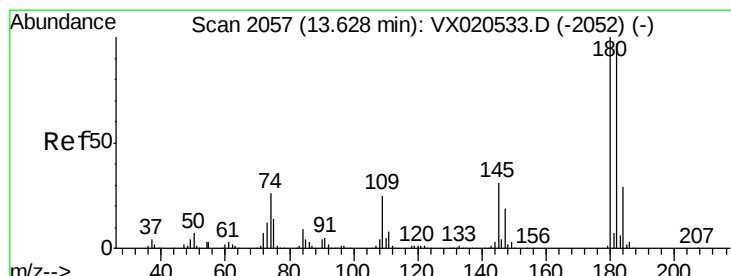
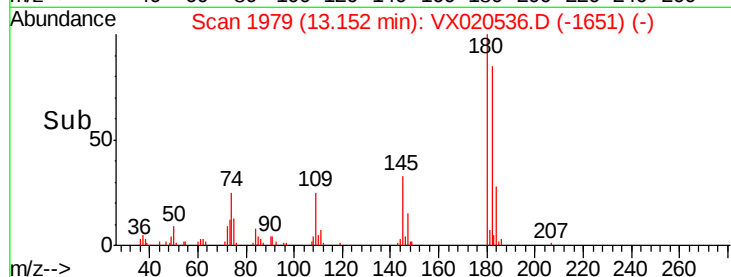
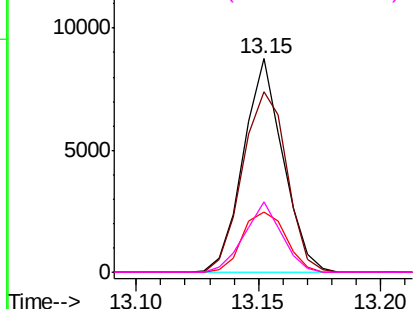
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

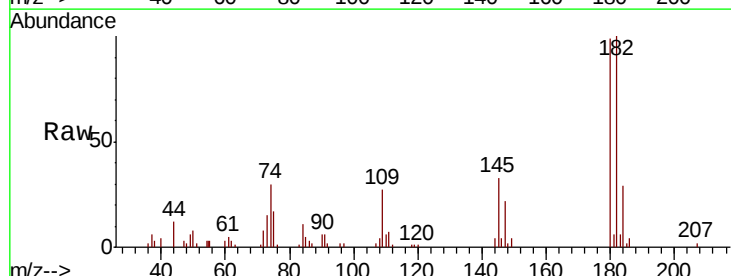
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70  
 1,2,4-trichlorobenzene  
 Concen: 2.802 ug/L  
 RT: 13.63 min Scan# 2057  
 Delta R.T. -0.00 min  
 Lab File: VX020536.D  
 Acq: 08 Jan 2021 12:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.8  | 74.3  | 111.5 |
| 145     | 32.7  | 24.1  | 36.1  |

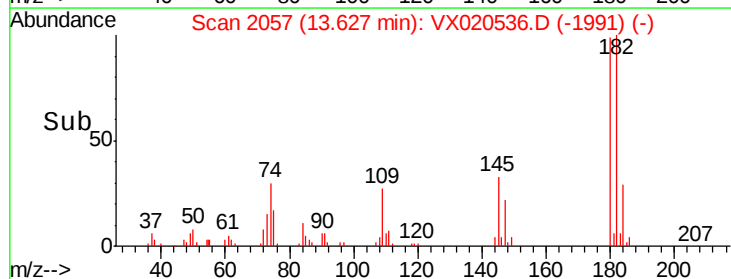
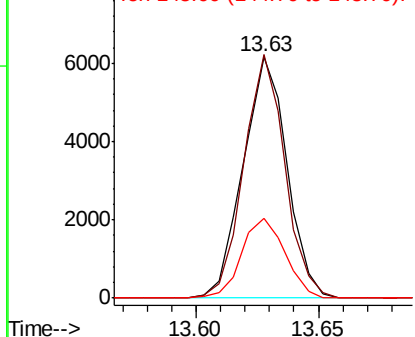


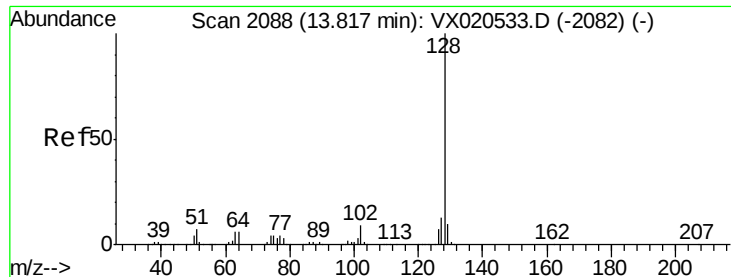
Abundance

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





#71

Naphthalene

Concen: 2.380 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

Instrument :

MSVOA\_X

ClientSampleId :

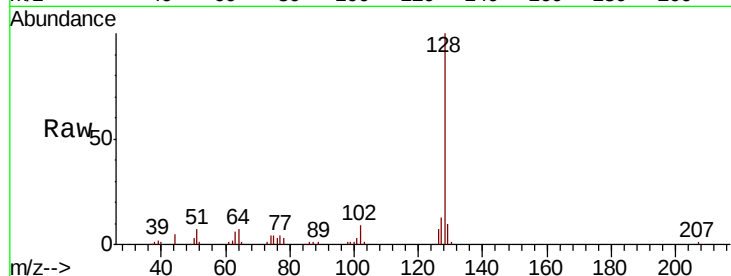
Tot Ion:128 Resp: 21457

Ion Ratio Lower Upper

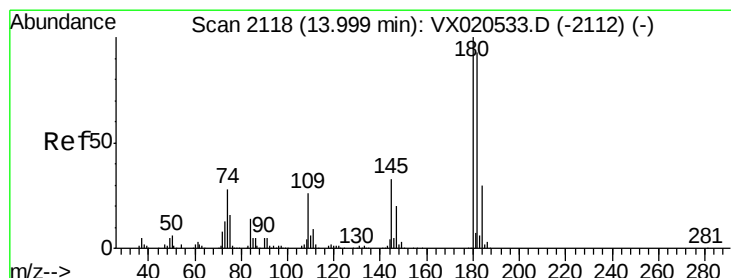
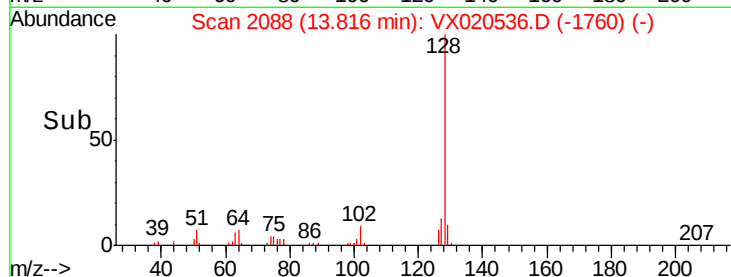
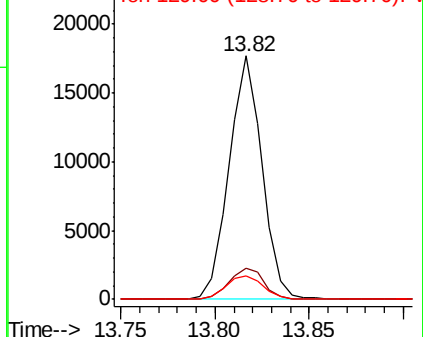
128 100

127 13.3 10.2 15.2

129 10.9 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



#72

1,2,3-Trichlorobenzene

Concen: 2.877 ug/L

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX020536.D

Acq: 08 Jan 2021 12:48

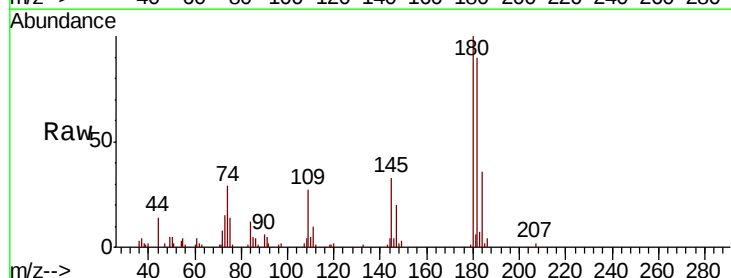
Tgt Ion:180 Resp: 8077

Ion Ratio Lower Upper

180 100

182 93.0 74.6 112.0

145 33.0 25.6 38.4



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

