

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV123120\  
 Data File : VV019881.D  
 Acq On : 31 Dec 2020 14:51  
 Operator : SY/MD  
 Sample : L4485-13  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

Quant Time: Jan 01 00:39:28 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVTR122920WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jan 01 00:38:14 2021  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.62  | 114  | 265385   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.86  | 117  | 250864   | 5.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.26 | 152  | 116952   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.30   | 65    | 81880    | 4.29     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.80% |
| 7) Chloroethane-d5             | 1.57   | 69    | 71657    | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.00% |
| 11) 1,1-Dichloroethene-d2      | 2.10   | 63    | 133862   | 3.38     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 67.60% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 165433   | 41.06    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 82.12% |
| 24) Chloroform-d               | 4.36   | 84    | 149553   | 4.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 84.60% |
| 26) 1,2-Dichloroethane-d4      | 5.04   | 65    | 85796    | 4.82     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40% |
| 32) Benzene-d6                 | 5.05   | 84    | 309794   | 4.50     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 90.00% |
| 36) 1,2-Dichloropropane-d6     | 6.08   | 67    | 97951    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.80% |
| 41) Toluene-d8                 | 7.32   | 98    | 264985   | 4.41     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.20% |
| 43) trans-1,3-Dichloropropene- | 7.63   | 79    | 31118    | 4.32     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 86.40% |
| 46) 2-Hexanone-d5              | 8.10   | 63    | 119552   | 41.25    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 82.50% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.22  | 84    | 53689    | 4.15     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 83.00% |
| 66) 1,2-Dichlorobenzene-d4     | 11.63  | 152   | 85476    | 4.71     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.20% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.13 | 85  | 6281  | 0.247 ug/L   | 99     |
| 3) Chloromethane               | 1.24 | 50  | 7120  | 0.254 ug/L   | 97     |
| 5) Vinyl chloride              | 1.31 | 62  | 7190  | 0.261 ug/L # | 79     |
| 6) Bromomethane                | 1.52 | 94  | 4338  | 0.269 ug/L   | 90     |
| 8) Chloroethane                | 1.58 | 64  | 4167  | 0.248 ug/L   | 90     |
| 9) Trichlorofluoromethane      | 1.75 | 101 | 8409  | 0.251 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.11 | 101 | 5558  | 0.309 ug/L   | 89     |
| 12) 1,1-Dichloroethene         | 2.12 | 96  | 5796  | 0.315 ug/L # | 1      |
| 14) Carbon disulfide           | 2.29 | 76  | 15941 | 0.250 ug/L   | 97     |
| 16) Methylene chloride         | 2.50 | 84  | 8420  | 0.376 ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 2.78 | 73  | 10814 | 0.235 ug/L # | 92     |
| 18) trans-1,2-Dichloroethene   | 2.77 | 96  | 4852  | 0.234 ug/L   | 83     |
| 19) 1,1-Dichloroethane         | 3.19 | 63  | 9736  | 0.242 ug/L   | 96     |
| 22) cis-1,2-Dichloroethene     | 3.92 | 96  | 4934  | 0.229 ug/L   | 96     |
| 23) Bromochloromethane         | 4.26 | 128 | 1834  | 0.213 ug/L   | 93     |
| 25) Chloroform                 | 4.38 | 83  | 19999 | 0.500 ug/L   | 90     |
| 27) 1,2-Dichloroethane         | 5.14 | 62  | 6550  | 0.269 ug/L   | 100    |

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 Sample : L4485-13  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 5 Sample Multiplier: 1

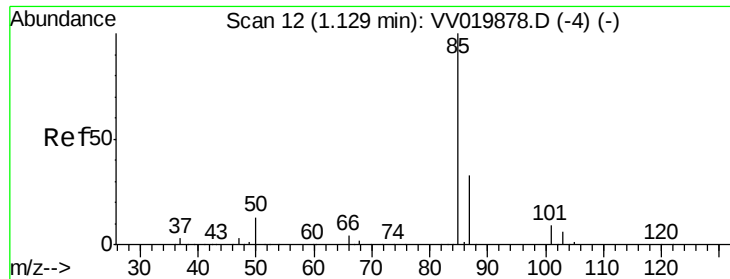
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

Quant Time: Jan 01 00:39:28 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SFAMVTR122920WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Jan 01 00:38:14 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 29) 1,1,1-Trichloroethane     | 4.61  | 97   | 7685     | 0.225 | ug/L   | 96       |
| 30) Cyclohexane               | 4.68  | 56   | 8460     | 0.246 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.83  | 117  | 6165     | 0.221 | ug/L   | 99       |
| 33) Benzene                   | 5.11  | 78   | 18729    | 0.223 | ug/L   | 100      |
| 34) Trichloroethene           | 5.93  | 95   | 5849     | 0.261 | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.13  | 83   | 8108     | 0.242 | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.19  | 63   | 4454     | 0.211 | ug/L   | 98       |
| 38) Bromodichloromethane      | 6.52  | 83   | 5912     | 0.228 | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene   | 7.04  | 75   | 6187     | 0.214 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.24  | 43   | 24313    | 2.044 | ug/L # | 90       |
| 42) Toluene                   | 7.40  | 91   | 19503    | 0.229 | ug/L   | 93       |
| 44) trans-1,3-Dichloropropene | 7.66  | 75   | 6896     | 0.291 | ug/L # | 74       |
| 45) 1,1,2-Trichloroethane     | 7.86  | 97   | 3188     | 0.234 | ug/L   | 93       |
| 47) Tetrachloroethene         | 7.98  | 164  | 3632     | 0.238 | ug/L   | 89       |
| 48) 2-Hexanone                | 8.15  | 43   | 34921    | 4.236 | ug/L   | 92       |
| 49) Dibromochloromethane      | 8.25  | 129  | 3197     | 0.217 | ug/L   | 92       |
| 50) 1,2-Dibromoethane         | 8.36  | 107  | 2811     | 0.227 | ug/L # | 87       |
| 51) Chlorobenzene             | 8.89  | 112  | 12605    | 0.234 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.02  | 91   | 20712    | 0.219 | ug/L   | 98       |
| 53) m,p-xylene                | 9.15  | 106  | 7822     | 0.226 | ug/L   | 88       |
| 54) o-xylene                  | 9.55  | 106  | 6963     | 0.210 | ug/L   | 92       |
| 55) Styrene                   | 9.57  | 104  | 10687    | 0.191 | ug/L   | 94       |
| 57) 1,1,2,2-Tetrachloroethane | 10.25 | 83   | 3889     | 0.270 | ug/L   | 98       |
| 59) Bromoform                 | 9.74  | 173  | 1367     | 0.215 | ug/L # | 88       |
| 60) Isopropylbenzene          | 9.94  | 105  | 18167    | 0.213 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.28 | 75   | 2784     | 0.246 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.55 | 105  | 15705    | 0.223 | ug/L   | 96       |
| 63) 1,2,4-Trimethylbenzene    | 10.92 | 105  | 14776    | 0.206 | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.19 | 146  | 8888     | 0.238 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.28 | 146  | 9467     | 0.252 | ug/L   | 94       |
| 67) 1,2-Dichlorobenzene       | 11.65 | 146  | 8350     | 0.243 | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene    | 12.66 | 180  | 6271     | 0.226 | ug/L   | 96       |
| 70) 1,2,4-trichlorobenzene    | 13.27 | 180  | 4581     | 0.203 | ug/L   | 98       |
| 71) Naphthalene               | 13.51 | 128  | 5528     | 0.162 | ug/L # | 94       |
| 72) 1,2,3-Trichlorobenzene    | 13.75 | 180  | 3880     | 0.202 | ug/L   | 98       |

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

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Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 5 Sample Multiplier: 1



#2

Dichlorodifluoromethane

Concen: 0.247 ug/L

RT: 1.13 min Scan# 12

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

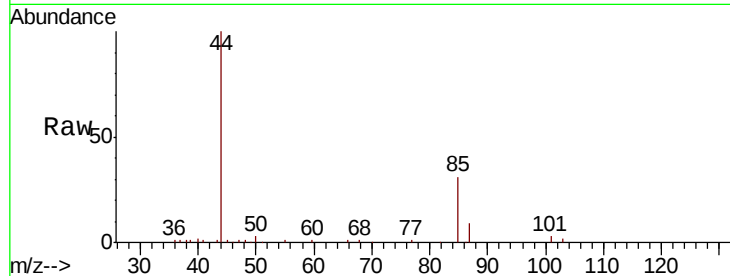
MDL-WATER-06

Tot Ion: 85 Resp: 6281

Ion Ratio Lower Upper

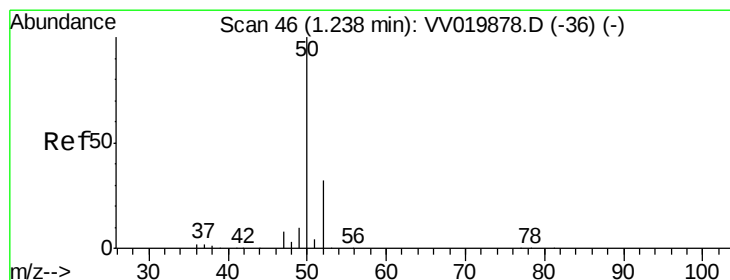
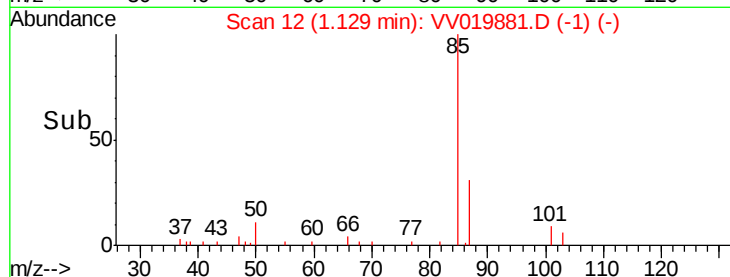
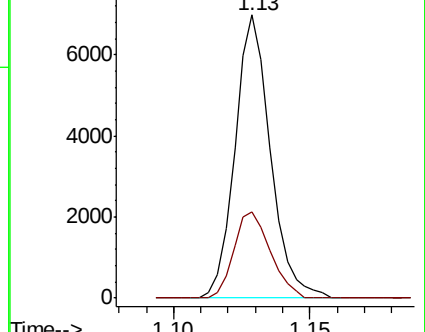
85 100

87 31.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV019881.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV019881.D (-1) (-)



#3

Chloromethane

Concen: 0.254 ug/L

RT: 1.24 min Scan# 46

Delta R.T. -0.00 min

Lab File: VV019881.D

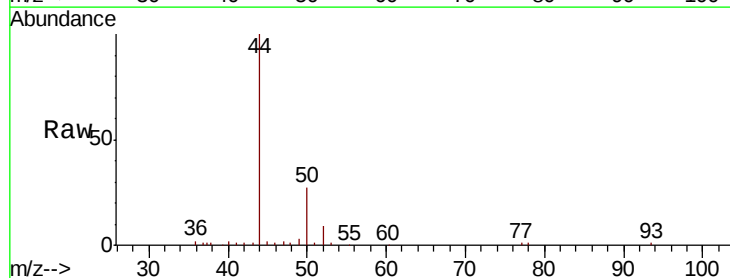
Acq: 31 Dec 2020 14:51

Tgt Ion: 50 Resp: 7120

Ion Ratio Lower Upper

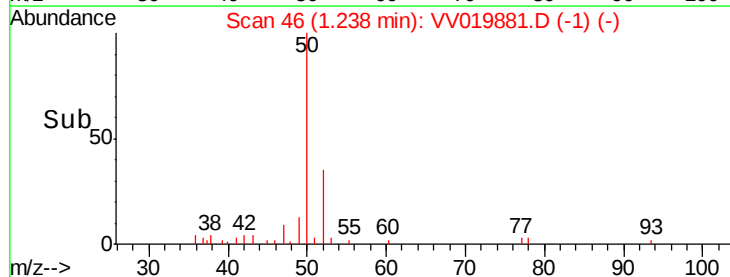
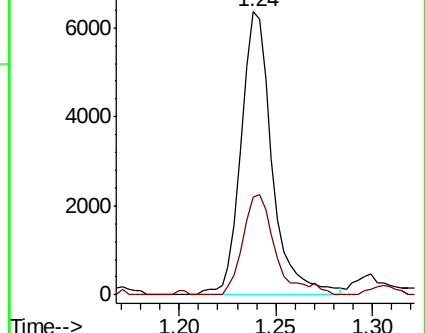
50 100

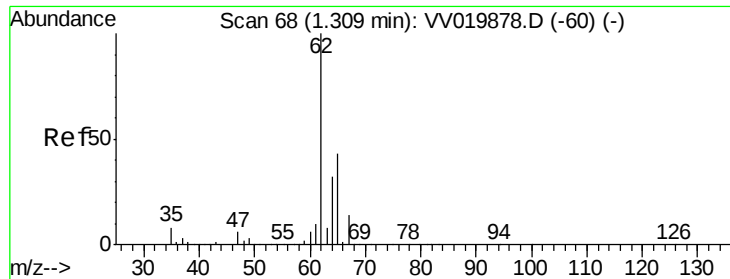
52 34.6 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VV019881.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV019881.D (-1) (-)





#5

Vinyl chloride

Concen: 0.261 ug/L

RT: 1.31 min Scan# 68

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

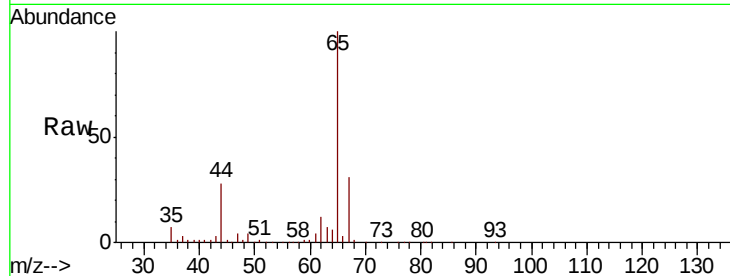
MDL-WATER-06

Tot Ion: 62 Resp: 7190

Ion Ratio Lower Upper

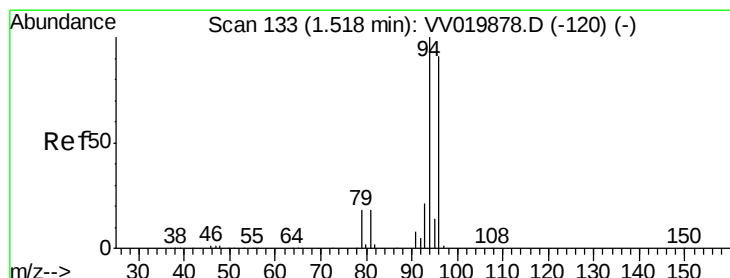
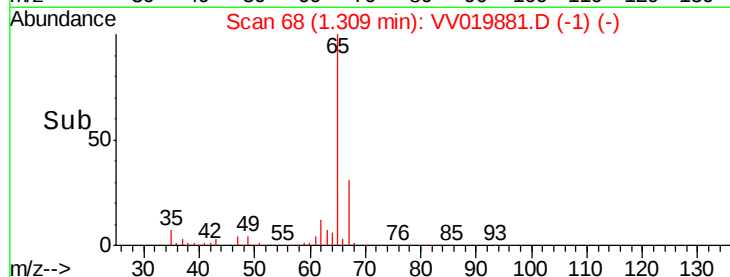
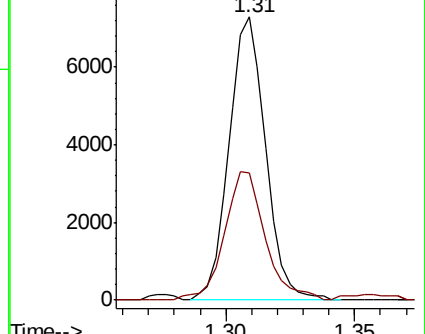
62 100

64 45.0 23.2 43.2#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 0.269 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.00 min

Lab File: VV019881.D

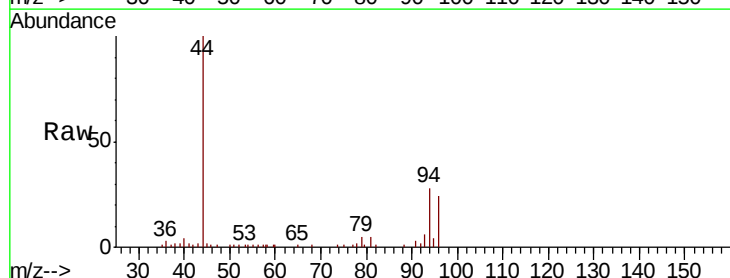
Acq: 31 Dec 2020 14:51

Tgt Ion: 94 Resp: 4338

Ion Ratio Lower Upper

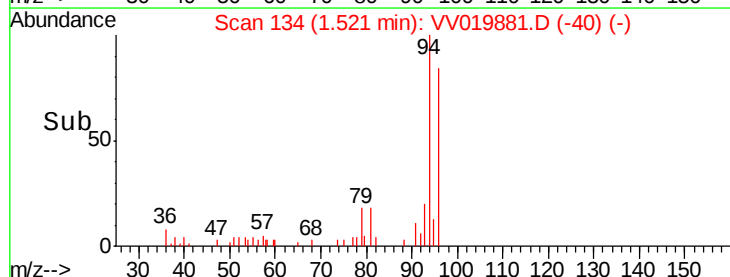
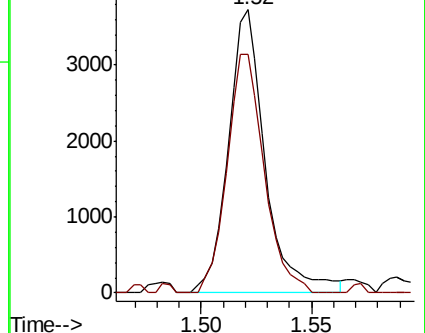
94 100

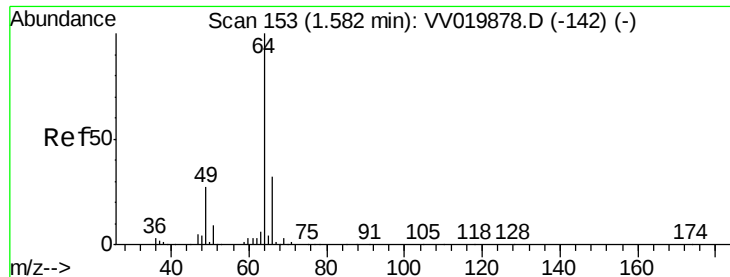
96 84.5 65.6 121.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 0.248 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

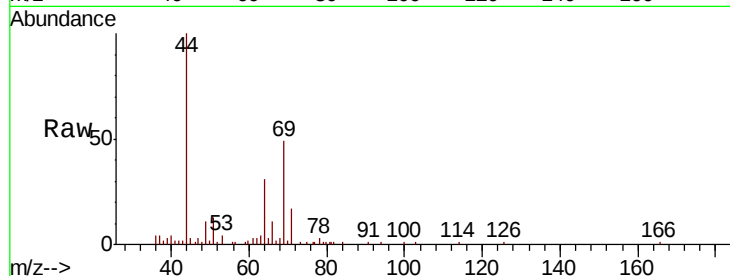
MDL-WATER-06

Tot Ion: 64 Resp: 4167

Ion Ratio Lower Upper

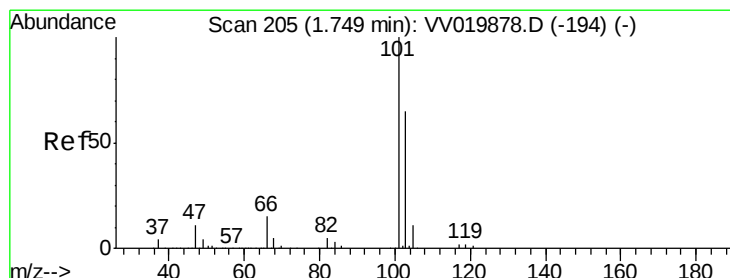
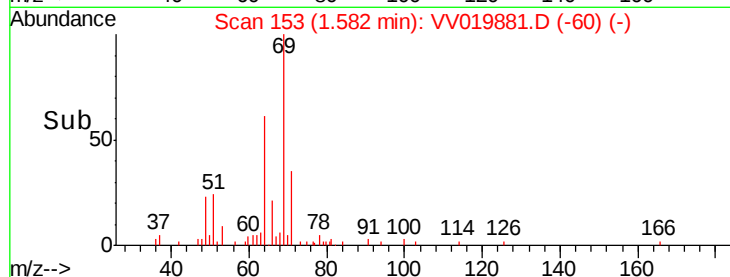
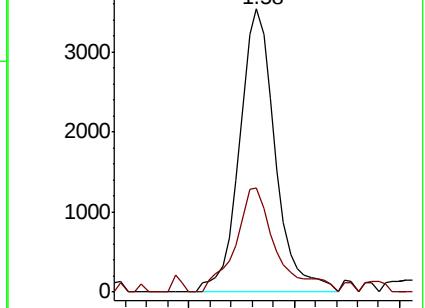
64 100

66 36.9 22.0 40.8



Abundance Ion 64.10 (63.80 to 64.80): VV019881.D (-142) (-)

Ion 66.05 (65.75 to 66.75): VV019881.D (-142) (-)



#9

Trichlorofluoromethane

Concen: 0.251 ug/L

RT: 1.75 min Scan# 205

Delta R.T. -0.00 min

Lab File: VV019881.D

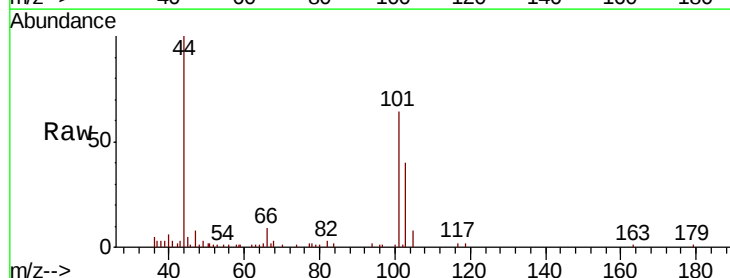
Acq: 31 Dec 2020 14:51

Tgt Ion: 101 Resp: 8409

Ion Ratio Lower Upper

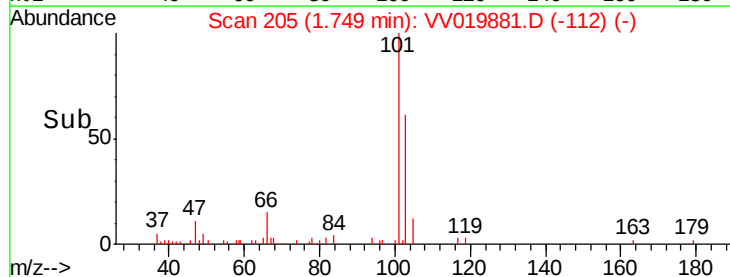
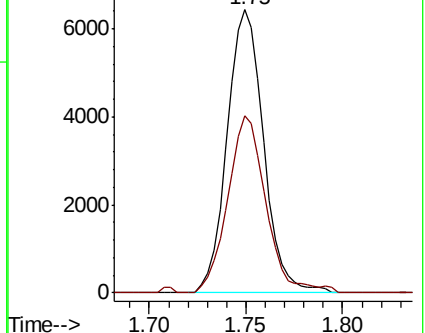
101 100

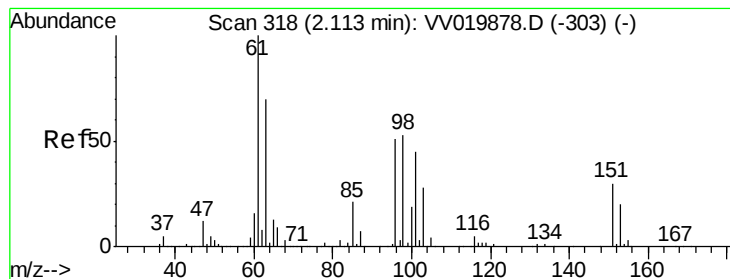
103 65.5 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VV019881.D (-194) (-)

Ion 103.00 (102.70 to 103.70): VV019881.D (-194) (-)





#10

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

Concen: 0.309 ug/L

RT: 2.11 min Scan# 317

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

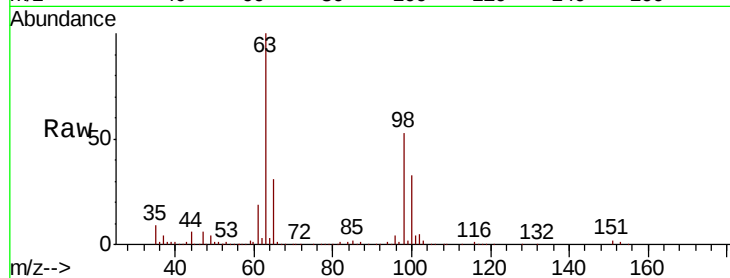
Tot Ion:101 Resp: 5558

Ion Ratio Lower Upper

101 100

85 43.3 36.4 54.6

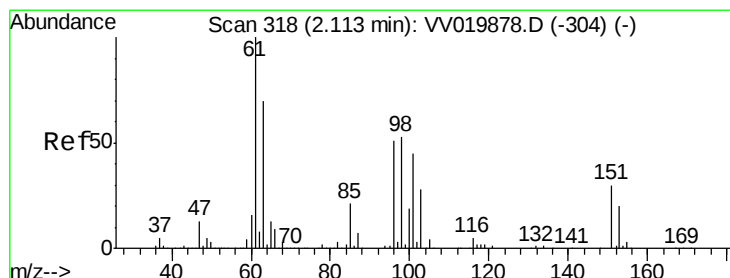
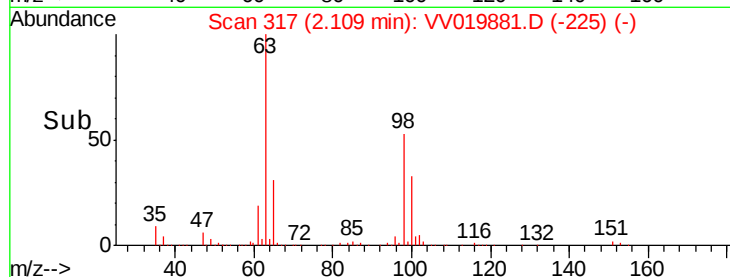
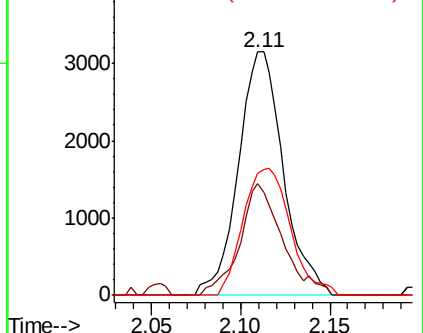
151 54.8 54.1 81.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.315 ug/L

RT: 2.12 min Scan# 319

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

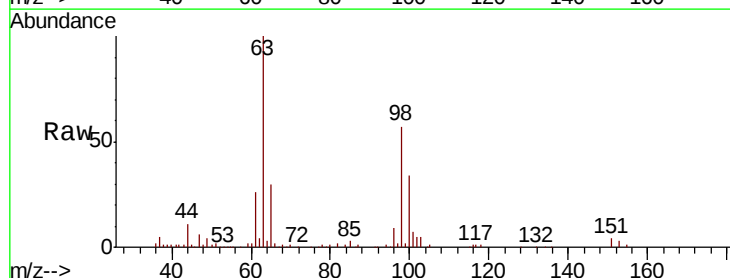
Tgt Ion: 96 Resp: 5796

Ion Ratio Lower Upper

96 100

61 294.4 131.5 244.1#

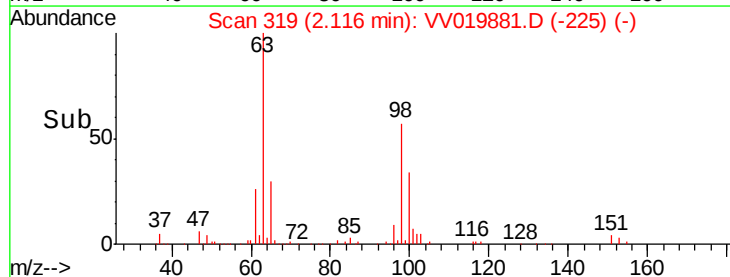
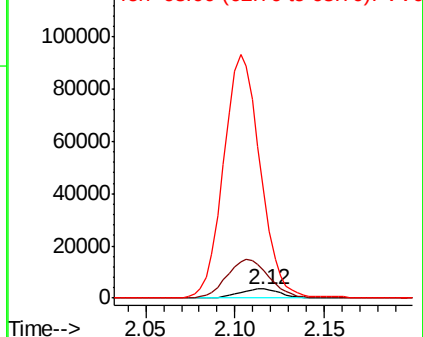
63 1135.5 95.2 176.8#

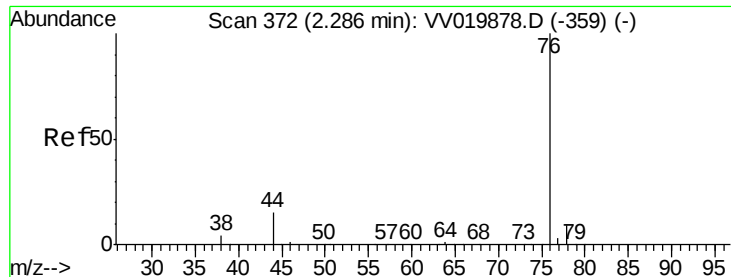


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.250 ug/L

RT: 2.29 min Scan# 373

Delta R.T. 0.00 min

Lab File: VV019881.D

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Instrument :

MSVOA\_V

ClientSampleId :

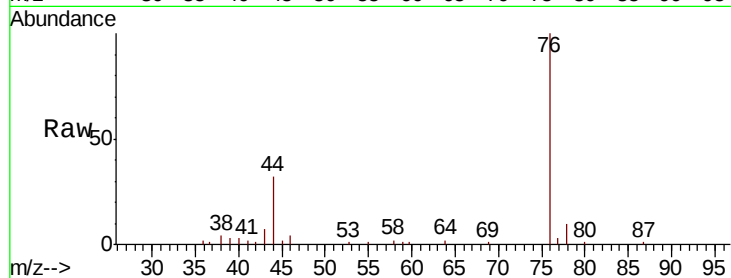
MDL-WATER-06

Tot Ion: 76 Resp: 15941

Ion Ratio Lower Upper

76 100

78 10.2 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.29

12000

10000

8000

6000

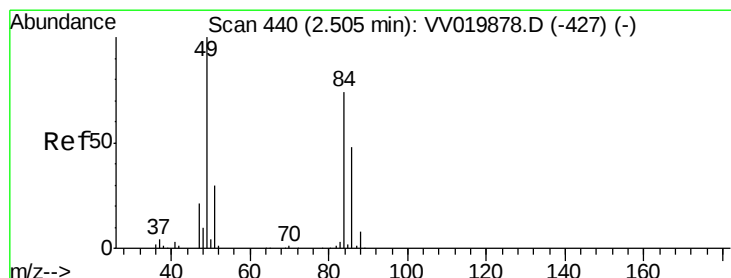
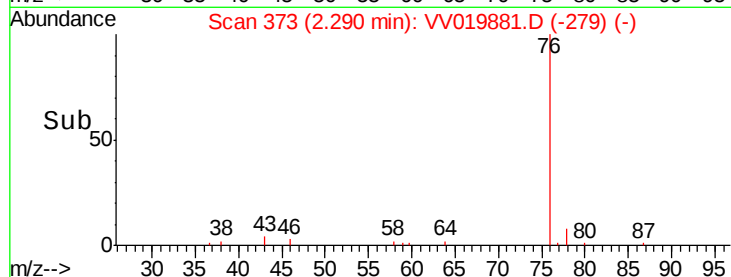
4000

2000

0

Time-->

2.25 2.30 2.35



#16

Methylene chloride

Concen: 0.376 ug/L

RT: 2.50 min Scan# 440

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

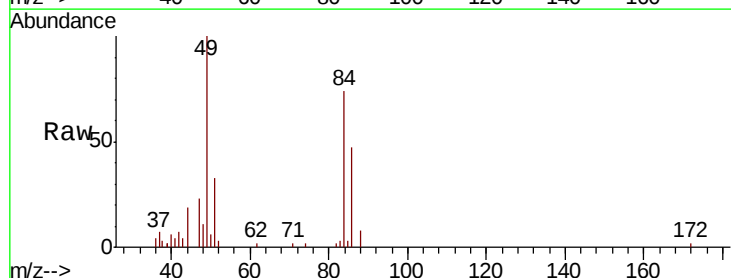
Tgt Ion: 84 Resp: 8420

Ion Ratio Lower Upper

84 100

86 63.1 42.8 79.4

49 134.4 93.9 174.3



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

8000

6000

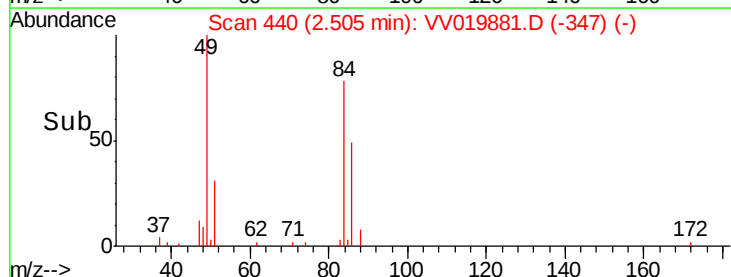
4000

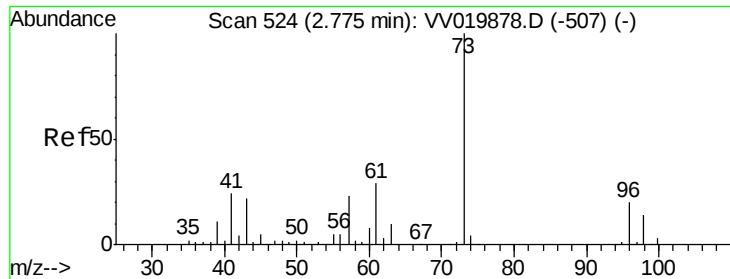
2000

0

Time-->

2.45 2.50 2.55

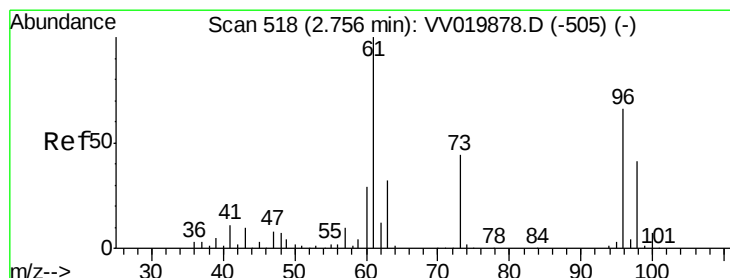
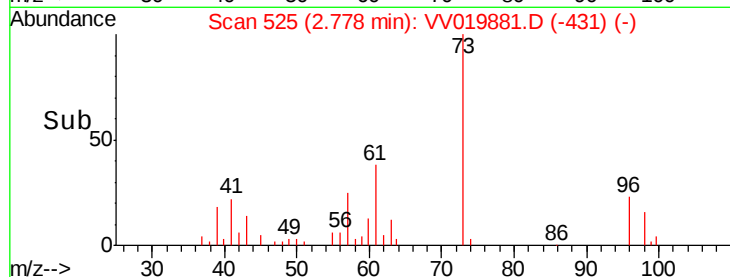
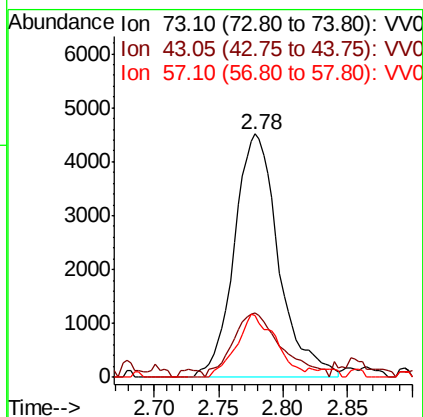
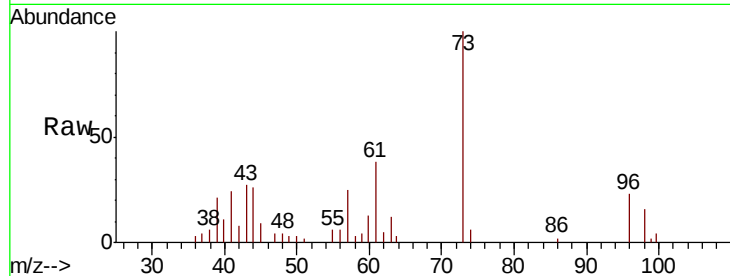




#17  
Methvl tert-butvl Ether  
Concen: 0.235 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

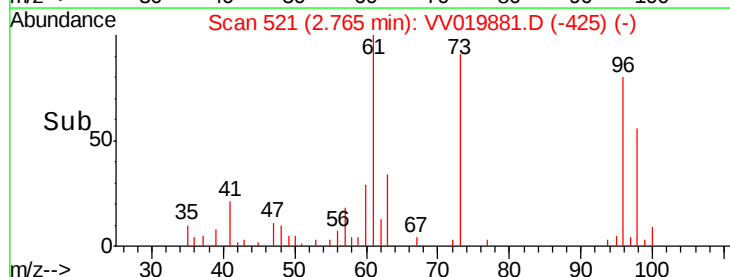
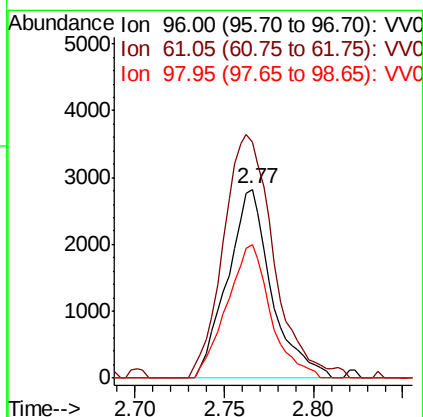
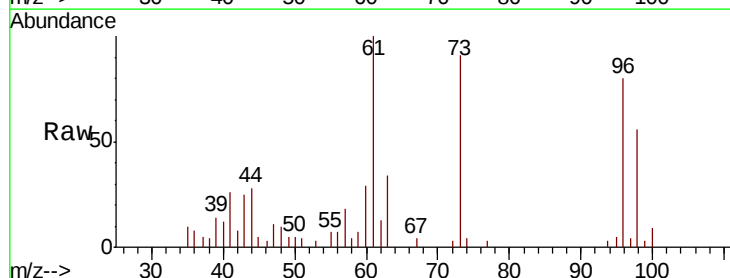
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-06

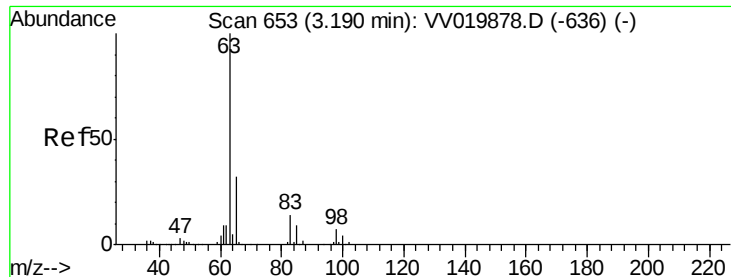
Tot Ion: 73 Resp: 10814  
Ion Ratio Lower Upper  
73 100  
43 29.1 17.0 25.6#  
57 23.0 18.2 27.4



#18  
trans-1,2-Dichloroethene  
Concen: 0.234 ug/L  
RT: 2.77 min Scan# 521  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Tgt Ion: 96 Resp: 4852  
Ion Ratio Lower Upper  
96 100  
61 124.8 106.3 197.3  
98 70.4 44.7 82.9





#19

1,1-Dichloroethane

Concen: 0.242 ug/L

RT: 3.19 min Scan# 654

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

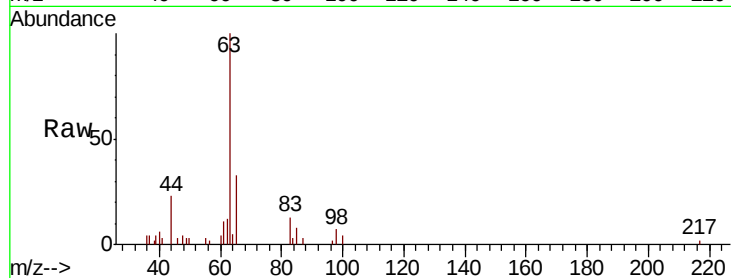
Tot Ion: 63 Resp: 9736

Ion Ratio Lower Upper

63 100

65 33.0 21.8 40.6

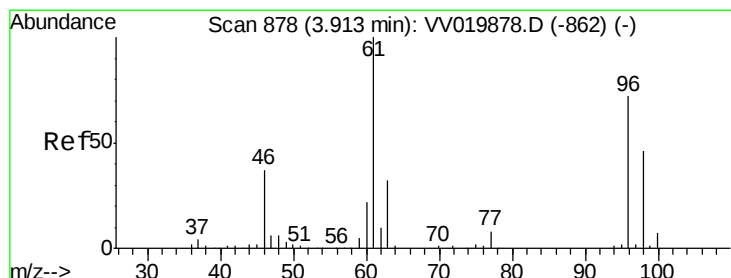
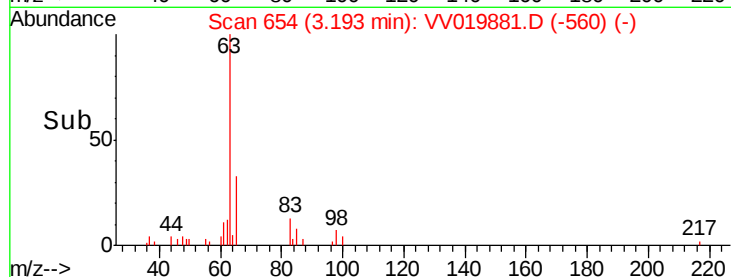
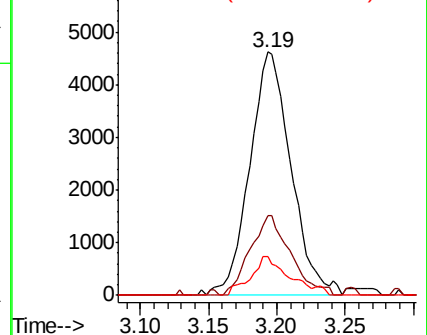
83 15.8 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 0.229 ug/L

RT: 3.92 min Scan# 881

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

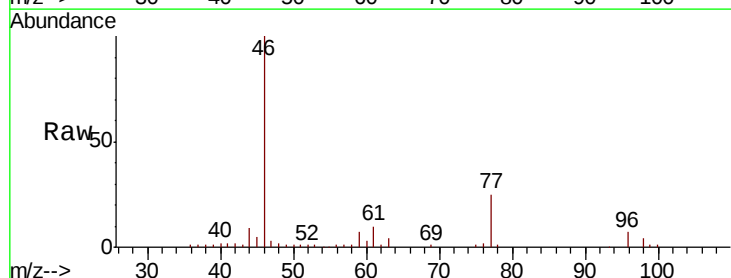
Tgt Ion: 96 Resp: 4934

Ion Ratio Lower Upper

96 100

61 144.8 98.1 182.3

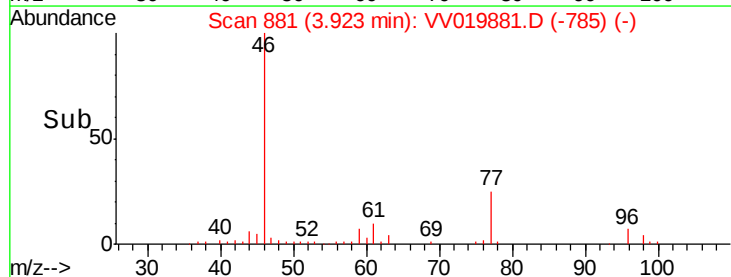
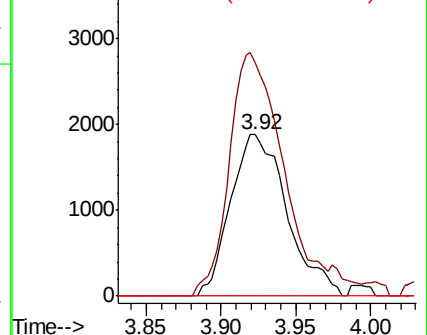
68 0.0 0.0 0.0

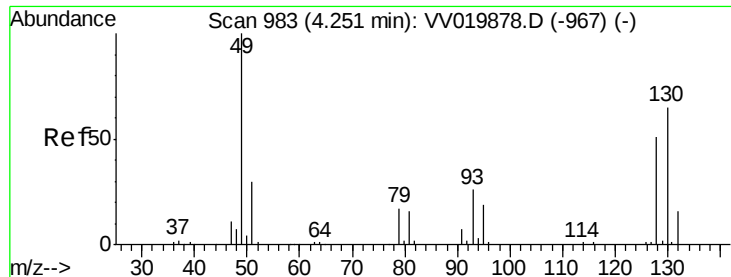


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0





#23

Bromochloromethane

Concen: 0.213 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

Tot Ion:128 Resp: 1834

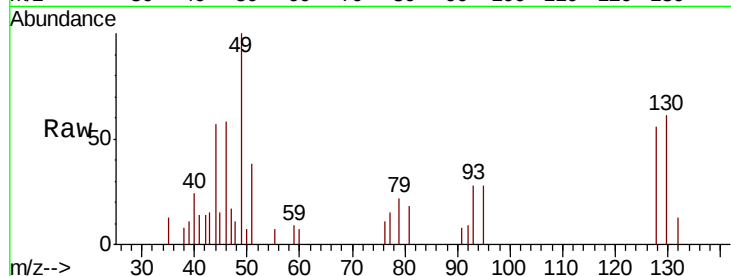
Ion Ratio Lower Upper

128 100

49 192.7 132.6 246.2

130 109.0 86.4 160.4

51 67.7 48.0 72.0

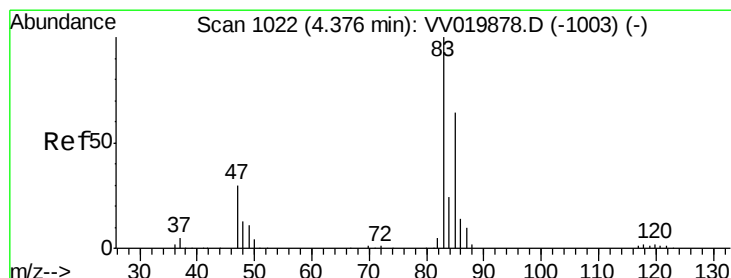
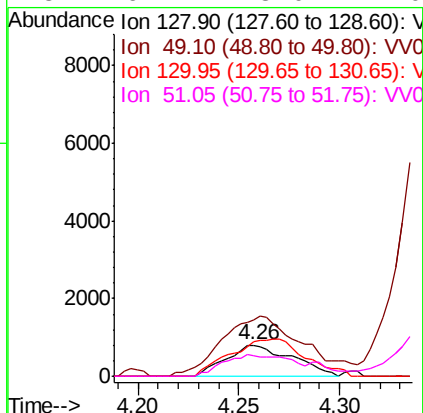
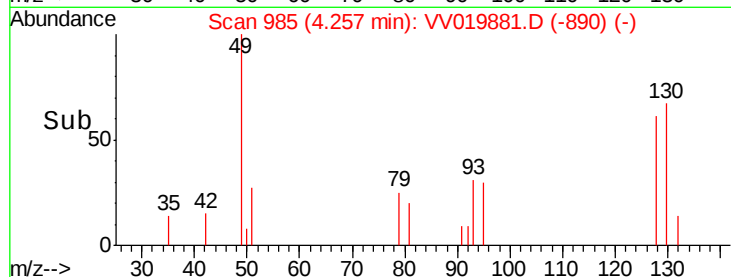


Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VV0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VV0



#25

Chloroform

Concen: 0.500 ug/L

RT: 4.38 min Scan# 1024

Delta R.T. 0.01 min

Lab File: VV019881.D

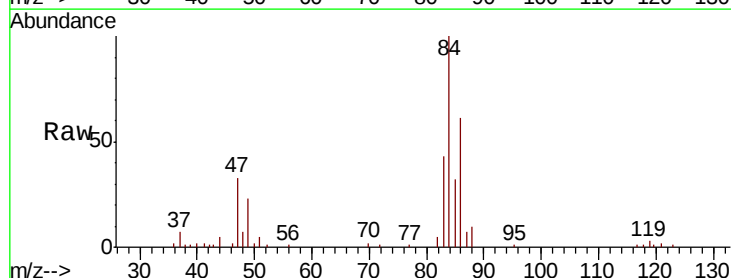
Acq: 31 Dec 2020 14:51

Tgt Ion: 83 Resp: 19999

Ion Ratio Lower Upper

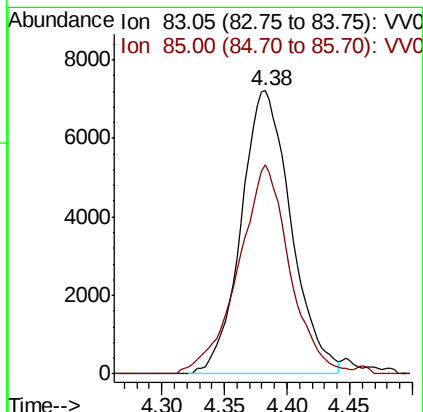
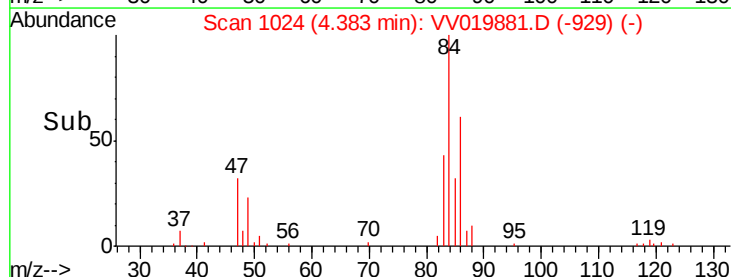
83 100

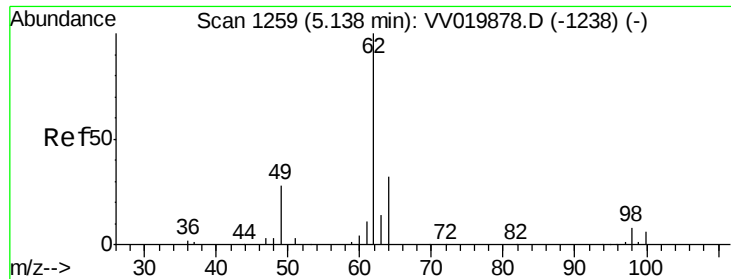
85 73.9 46.4 86.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

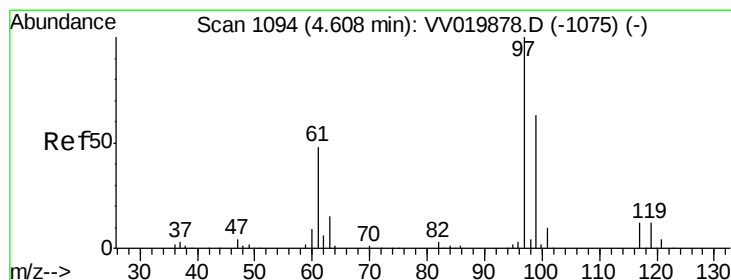
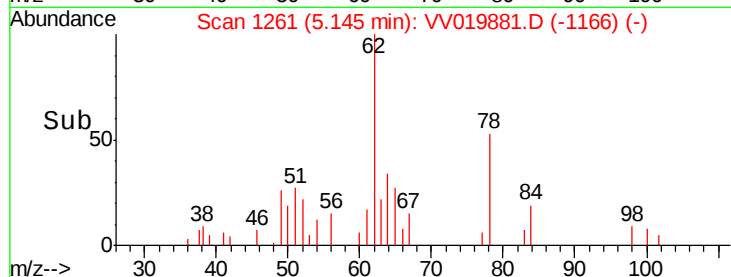
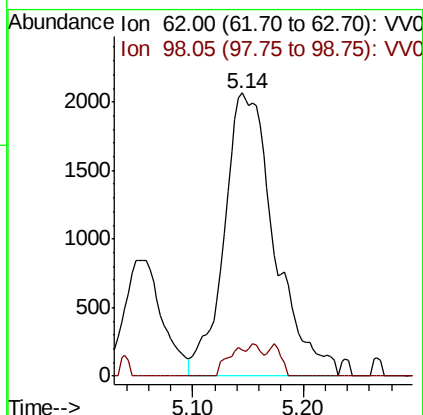
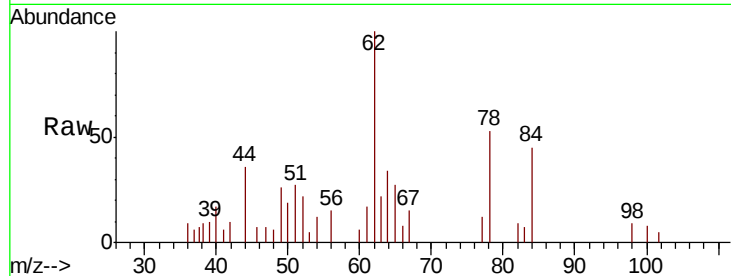




#27  
 1,2-Dichloroethane  
 Concen: 0.269 ug/L  
 RT: 5.14 min Scan# 1261  
 Delta R.T. 0.01 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

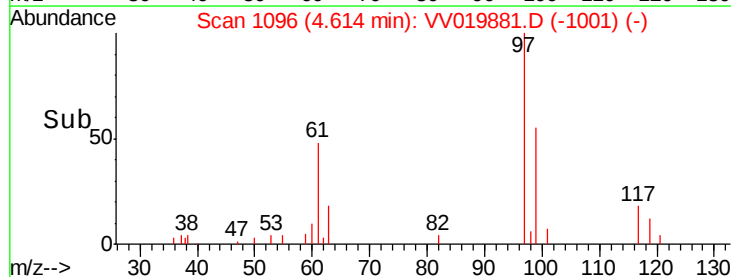
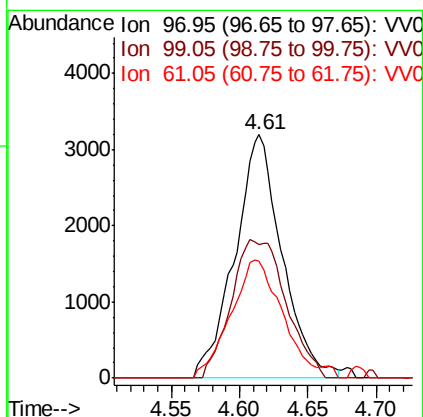
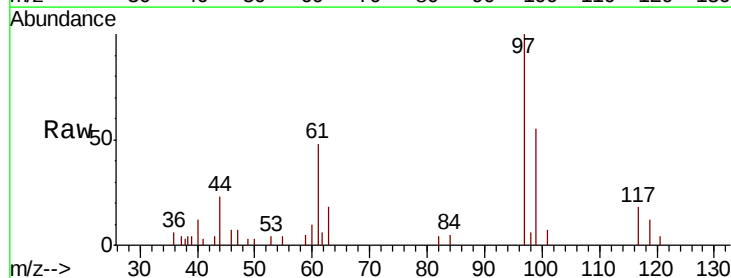
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

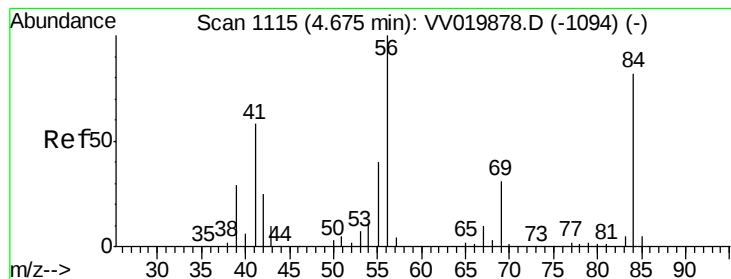
Tot Ion: 62 Resp: 6550  
 Ion Ratio Lower Upper  
 62 100  
 98 9.4 7.6 11.4



#29  
 1,1,1-Trichloroethane  
 Concen: 0.225 ug/L  
 RT: 4.61 min Scan# 1096  
 Delta R.T. 0.01 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Tgt Ion: 97 Resp: 7685  
 Ion Ratio Lower Upper  
 97 100  
 99 65.9 51.1 76.7  
 61 52.6 38.6 57.8





#30

Cyclohexane

Concen: 0.246 ug/L

RT: 4.68 min Scan# 1118

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

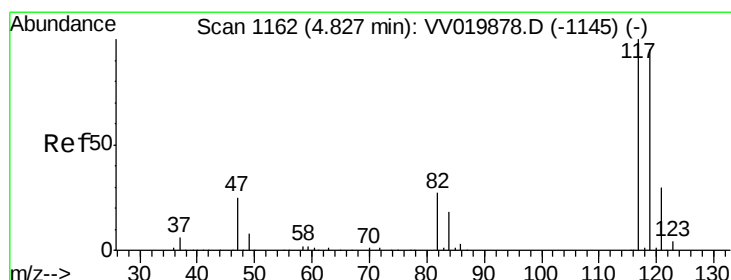
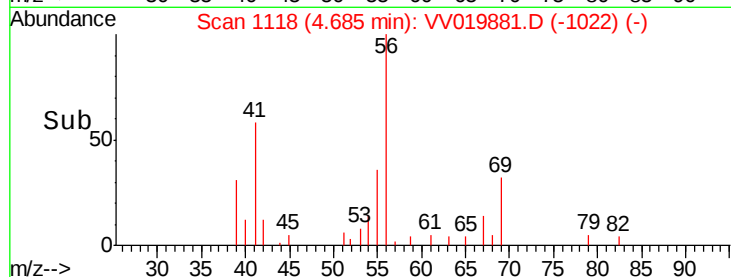
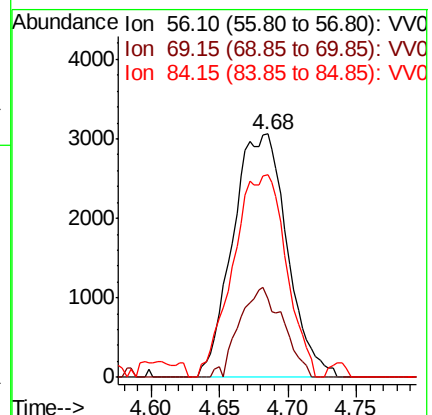
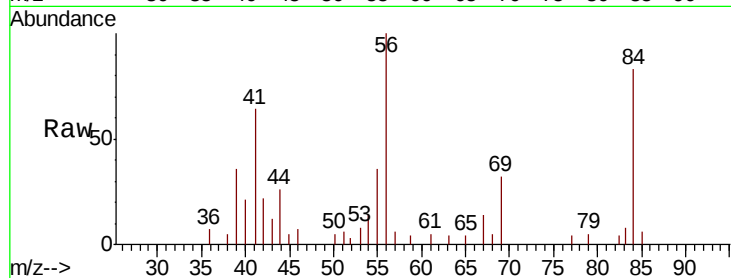
Tot Ion: 56 Resp: 8460

Ion Ratio Lower Upper

56 100

69 29.8 24.1 36.1

84 81.3 66.8 100.2



#31

Carbon tetrachloride

Concen: 0.221 ug/L

RT: 4.83 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VV019881.D

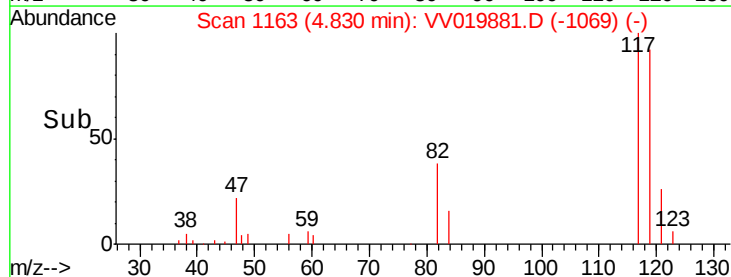
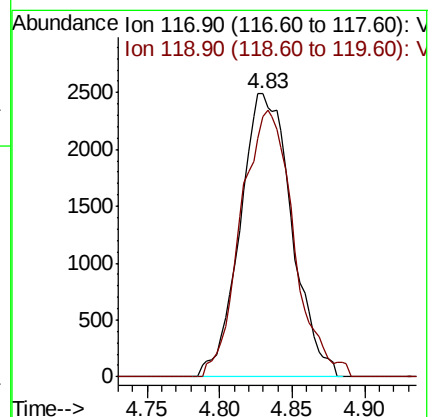
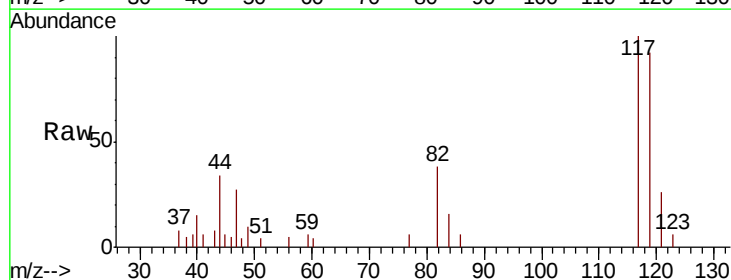
Acq: 31 Dec 2020 14:51

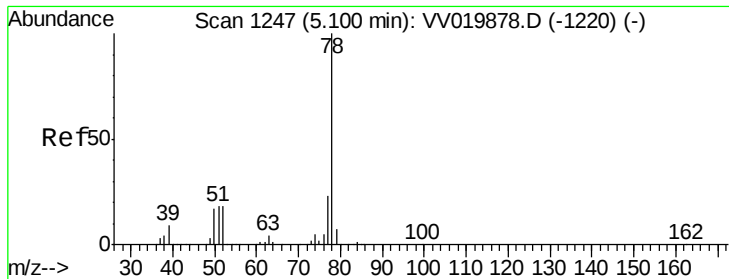
Tgt Ion: 117 Resp: 6165

Ion Ratio Lower Upper

117 100

119 96.4 76.0 114.0





#33

Benzene

Concen: 0.223 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

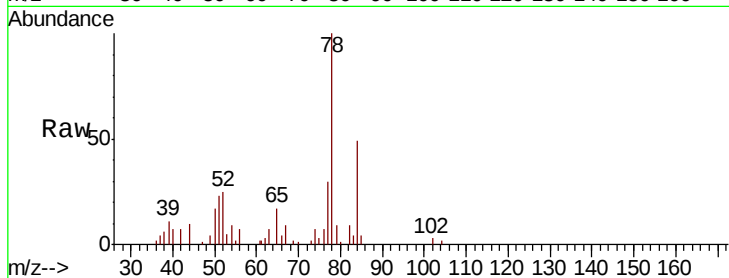
Instrument :

MSVOA\_V

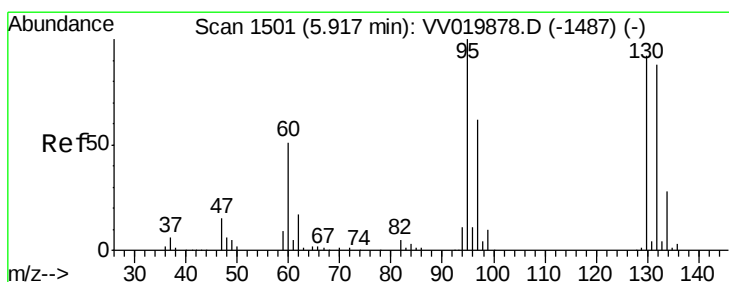
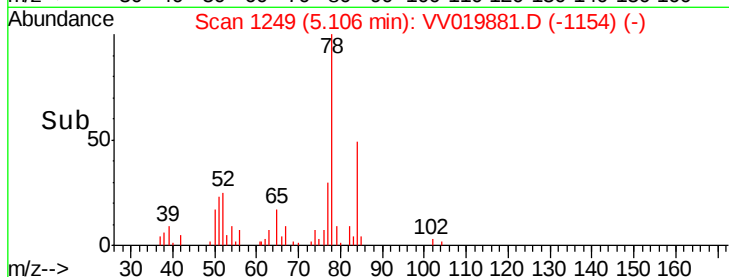
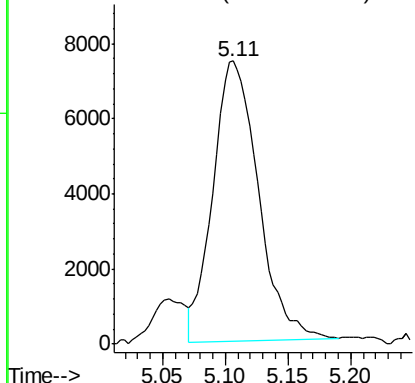
ClientSampleId :

MDL-WATER-06

Tgt Ion: 78 Resp: 18729



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.261 ug/L

RT: 5.93 min Scan# 1504

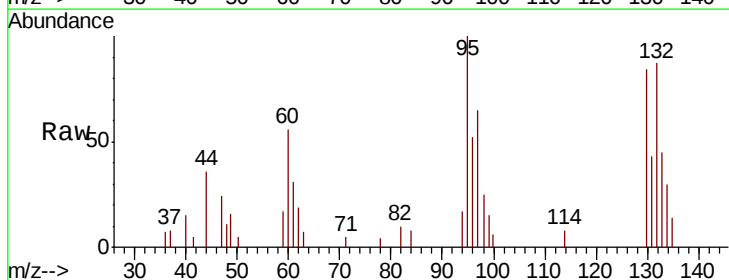
Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tgt Ion: 95 Resp: 5849

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.8  | 44.1  | 81.9  |
| 132 | 86.5  | 61.2  | 113.8 |
| 130 | 84.0  | 65.1  | 120.9 |

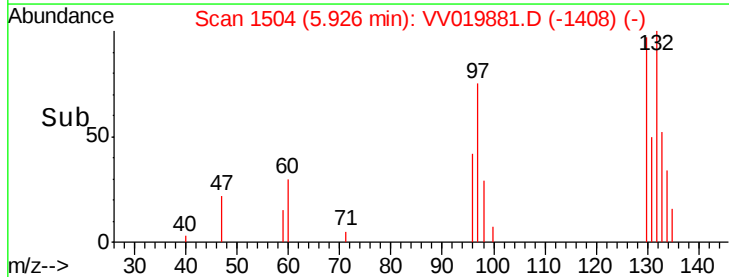
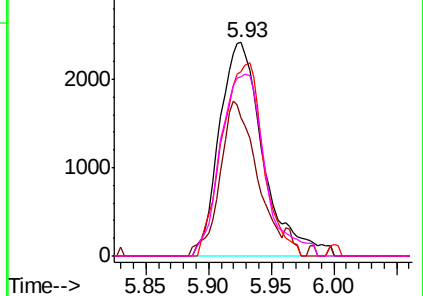


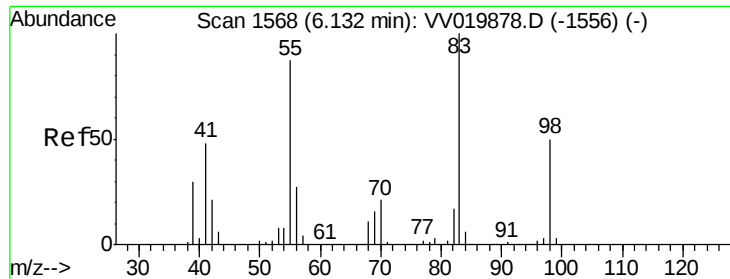
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

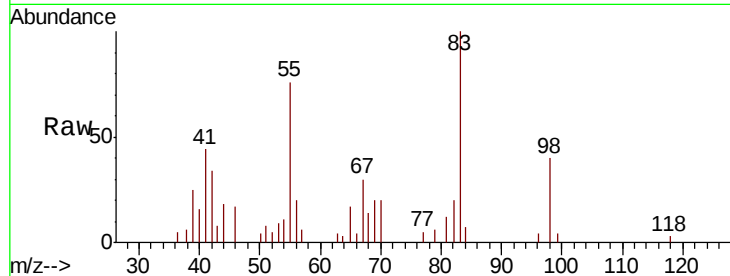




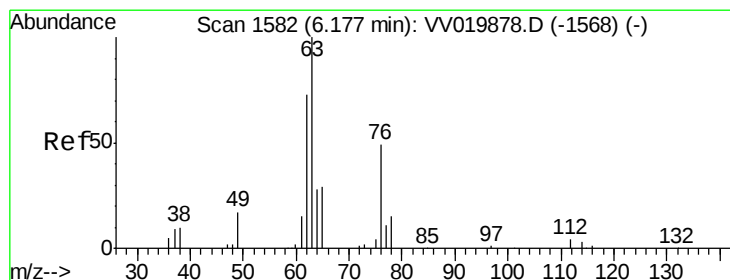
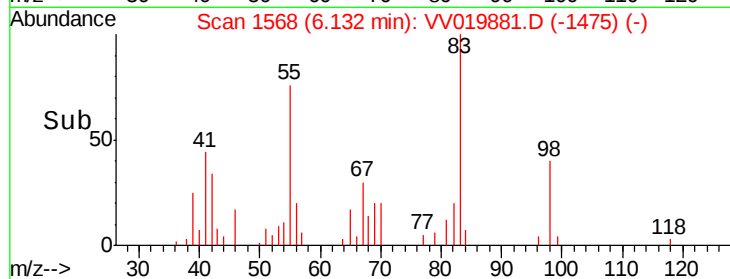
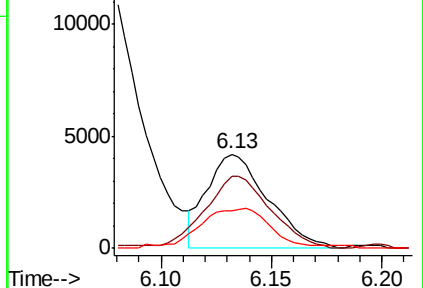
#35  
Methvlcvclohexane  
Concen: 0.242 ug/L  
RT: 6.13 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-06

Tot Ion: 83 Resp: 8108  
Ion Ratio Lower Upper  
83 100  
55 82.1 67.5 101.3  
98 48.9 38.6 58.0

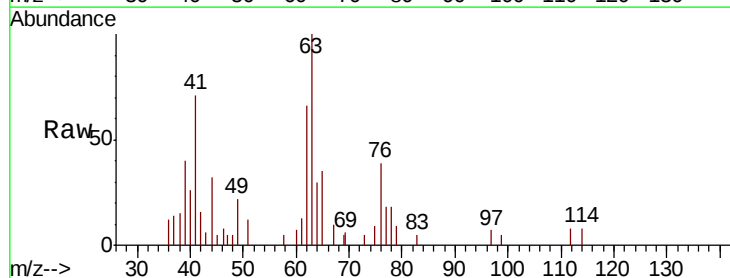


Abundance Ion 83.15 (82.85 to 83.85): VV0  
Ion 55.10 (54.80 to 55.80): VV0  
Ion 98.15 (97.85 to 98.85): VV0

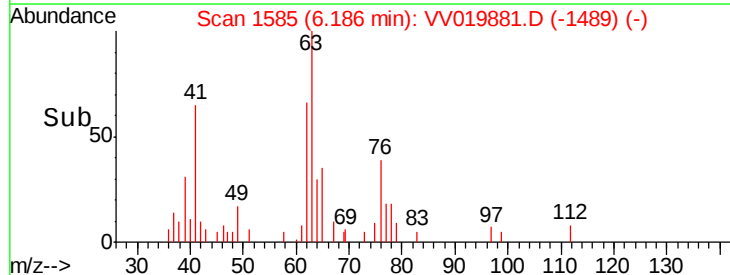
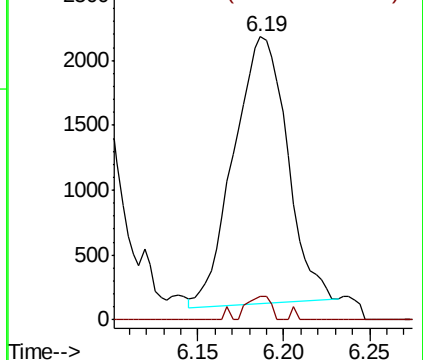


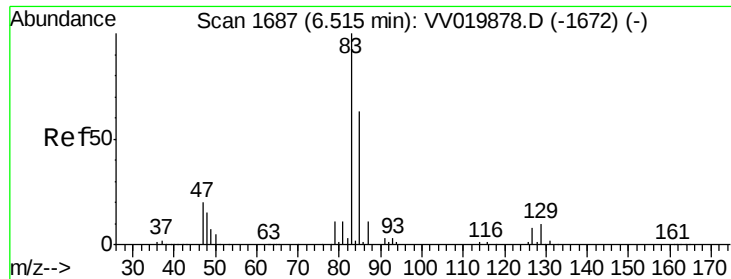
#37  
1,2-Dichloropropane  
Concen: 0.211 ug/L  
RT: 6.19 min Scan# 1585  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Tgt Ion: 63 Resp: 4454  
Ion Ratio Lower Upper  
63 100  
112 4.0 3.6 5.4



Abundance Ion 63.10 (62.80 to 63.80): VV0  
Ion 112.10 (111.80 to 112.80): V





#38

Bromodichloromethane

Concen: 0.228 ug/L

RT: 6.52 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

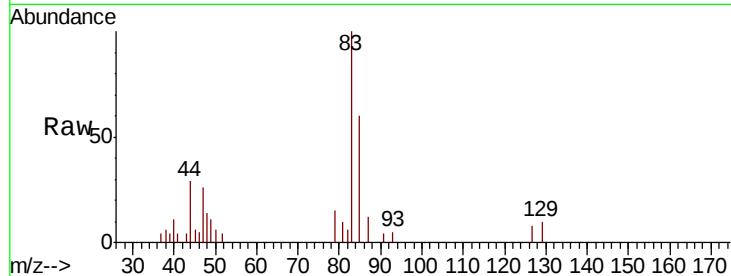
Tot Ion: 83 Resp: 5912

Ion Ratio Lower Upper

83 100

85 59.9 45.9 85.3

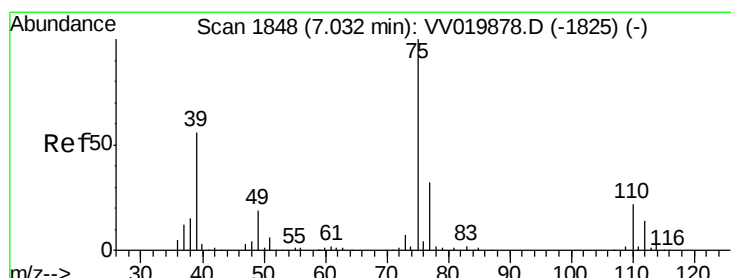
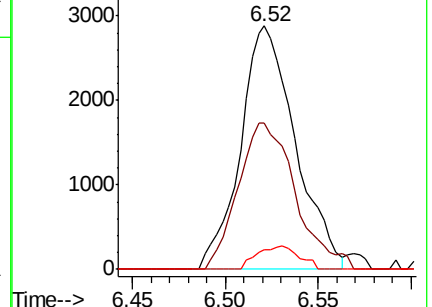
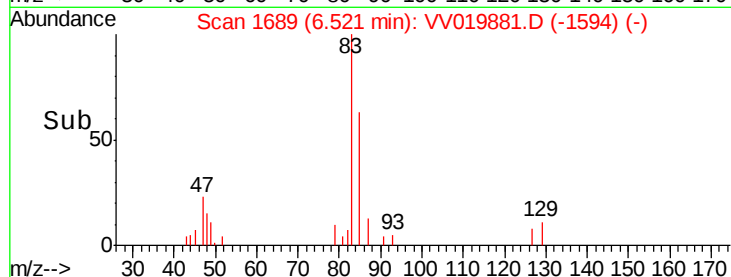
127 8.1 6.2 9.2



Abundance Ion 82.95 (82.65 to 83.65): VV019881.D (-1594) (-)

Ion 85.00 (84.70 to 85.70): VV019881.D (-1594) (-)

Ion 126.90 (126.60 to 127.60): VV019881.D (-1594) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.214 ug/L

RT: 7.04 min Scan# 1851

Delta R.T. 0.01 min

Lab File: VV019881.D

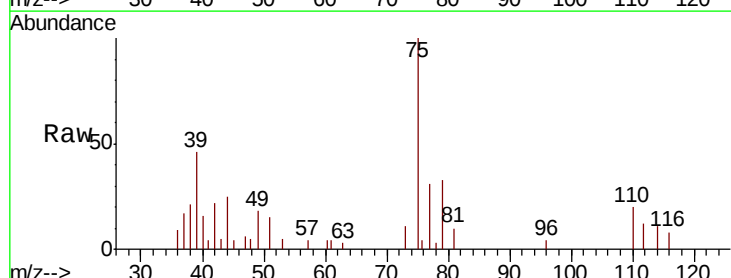
Acq: 31 Dec 2020 14:51

Tgt Ion: 75 Resp: 6187

Ion Ratio Lower Upper

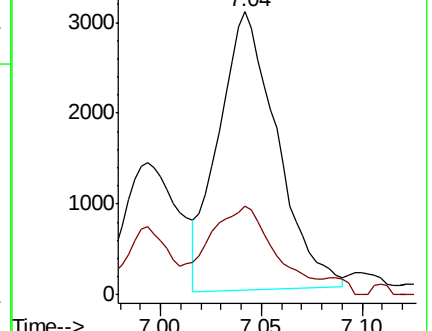
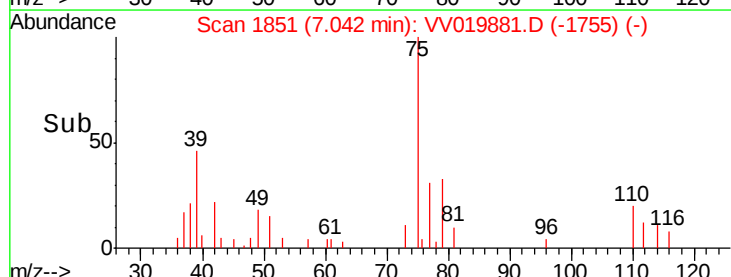
75 100

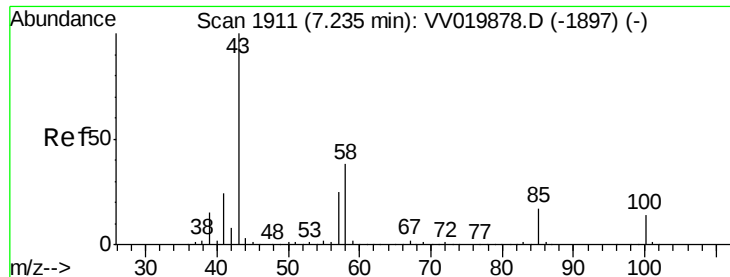
77 31.2 21.0 39.0



Abundance Ion 75.05 (74.75 to 75.75): VV019881.D (-1755) (-)

Ion 77.05 (76.75 to 77.75): VV019881.D (-1755) (-)

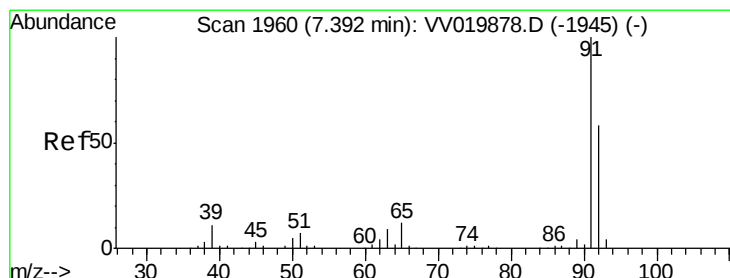
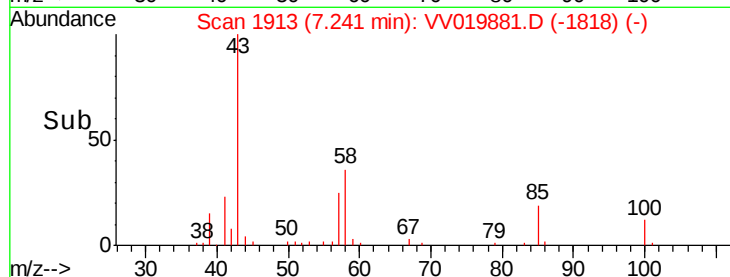
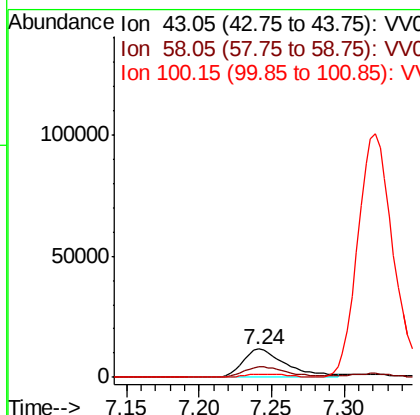
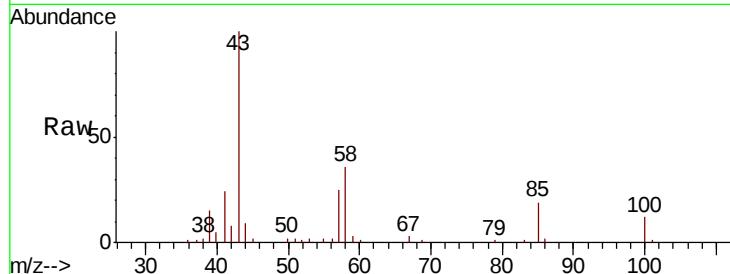




#40  
4-Methyl-2-pentanone  
Concen: 2.044 ug/L  
RT: 7.24 min Scan# 1913  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

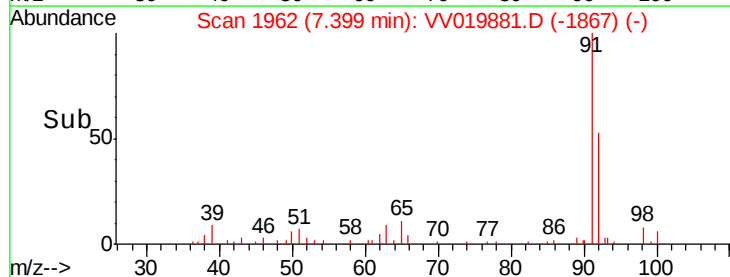
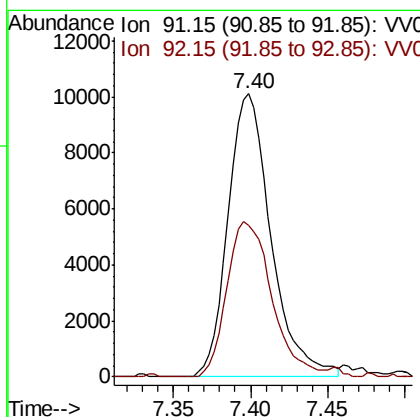
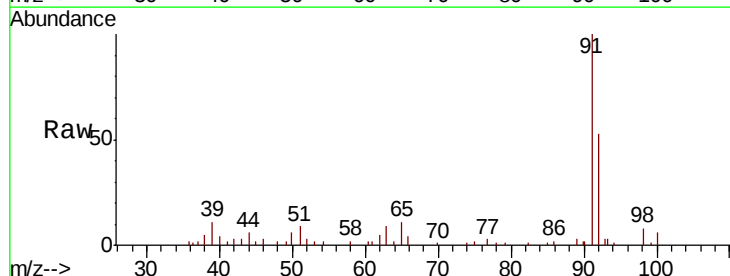
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-06

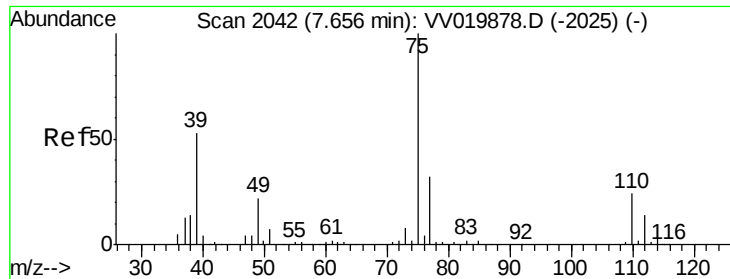
Tot Ion: 43 Resp: 24313  
Ion Ratio Lower Upper  
43 100  
58 37.6 30.0 45.0  
100 0.0 11.4 17.0#



#42  
Toluene  
Concen: 0.229 ug/L  
RT: 7.40 min Scan# 1962  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Tgt Ion: 91 Resp: 19503  
Ion Ratio Lower Upper  
91 100  
92 53.5 40.9 76.0

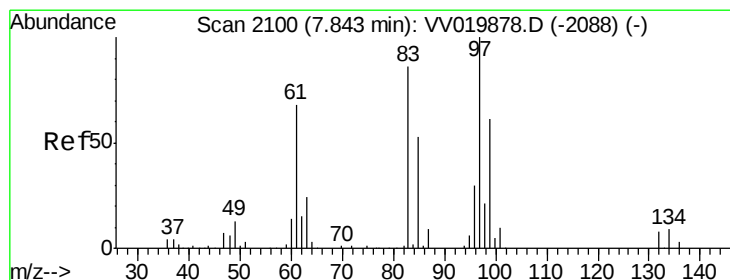
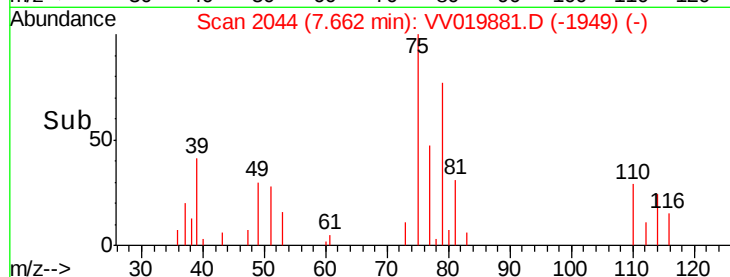
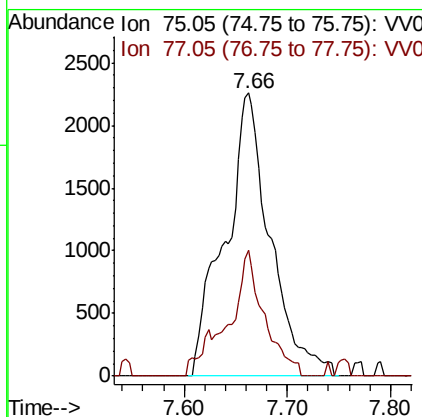
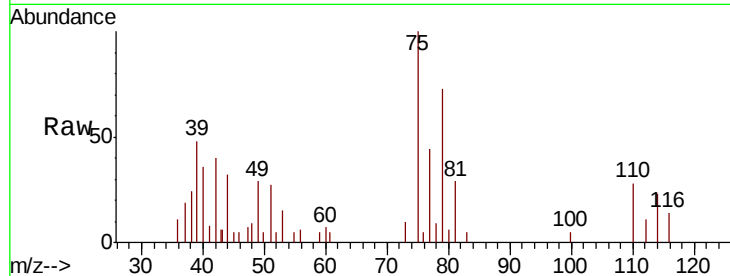




#44  
trans-1,3-Dichloropropene  
Concen: 0.291 ug/L  
RT: 7.66 min Scan# 2044  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

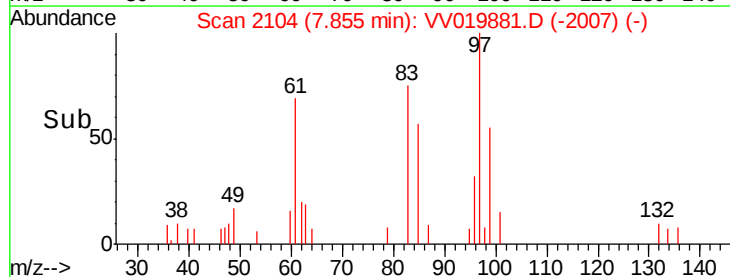
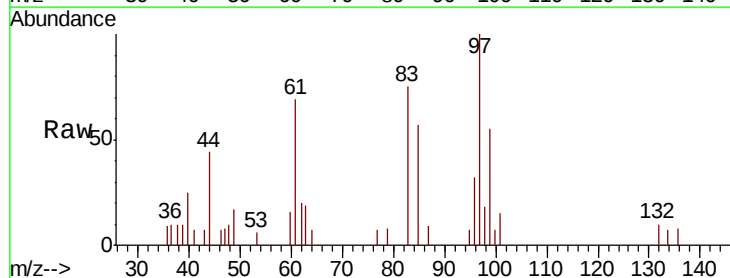
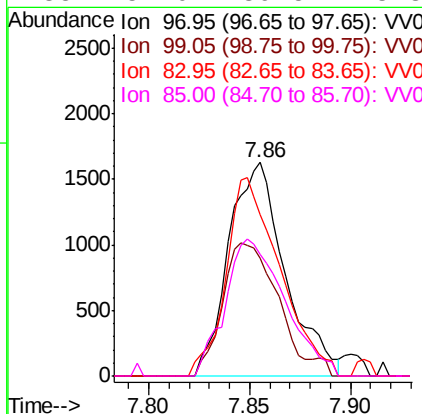
Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-06

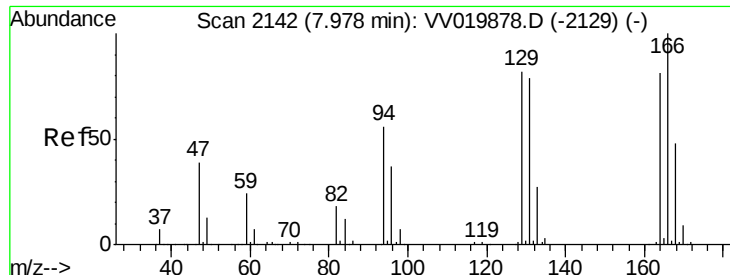
Tot Ion: 75 Resp: 6896  
Ion Ratio Lower Upper  
75 100  
77 44.5 21.1 39.3#



#45  
1,1,2-Trichloroethane  
Concen: 0.234 ug/L  
RT: 7.86 min Scan# 2104  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Tgt Ion: 97 Resp: 3188  
Ion Ratio Lower Upper  
97 100  
99 54.9 42.4 78.8  
83 75.4 59.4 110.4  
85 57.0 39.5 73.3





#47

Tetrachloroethene

Concen: 0.238 ug/L

RT: 7.98 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

Tot Ion:164 Resp: 3632

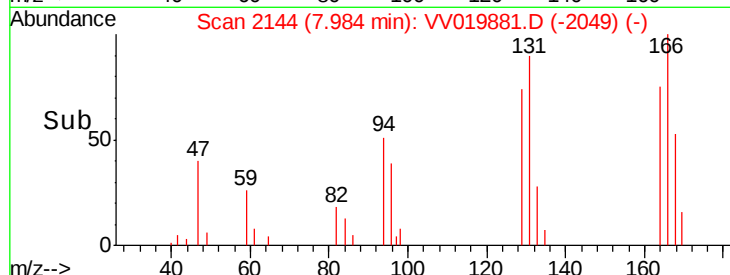
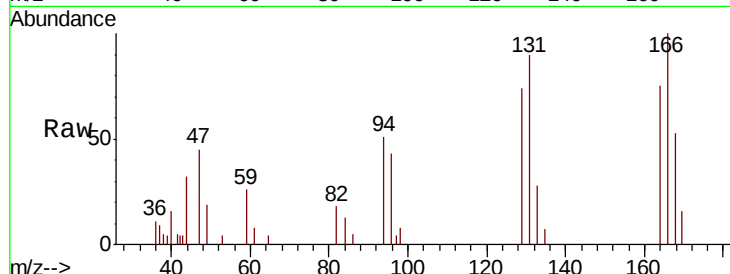
Ion Ratio Lower Upper

164 100

129 98.5 72.1 133.9

131 121.0 68.9 127.9

166 133.9 88.5 164.4

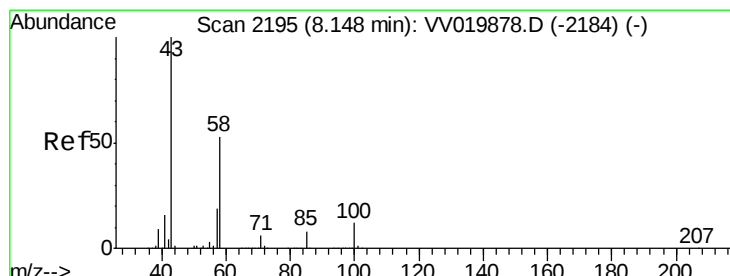
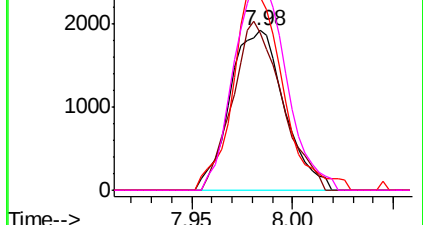


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 4.236 ug/L

RT: 8.15 min Scan# 2197

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Tgt Ion: 43 Resp: 34921

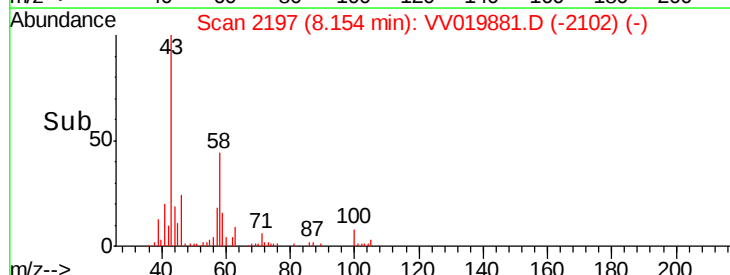
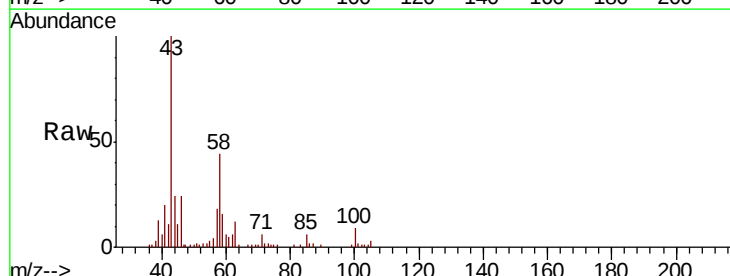
Ion Ratio Lower Upper

43 100

58 45.6 42.4 63.6

57 18.8 14.8 22.2

100 9.2 9.1 13.7

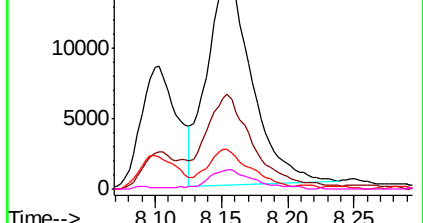


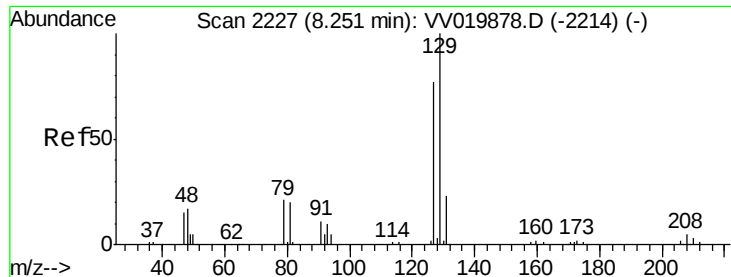
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 0.217 ug/L

RT: 8.25 min Scan# 2228

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

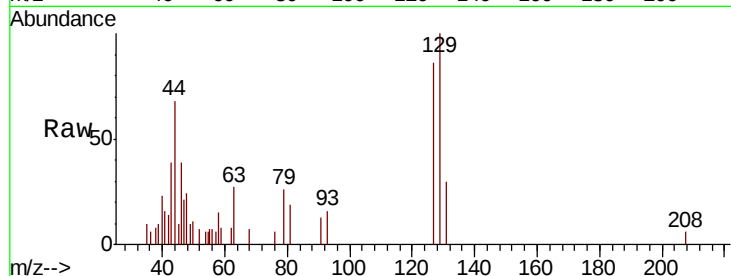
MDL-WATER-06

Tot Ion:129 Resp: 3197

Ion Ratio Lower Upper

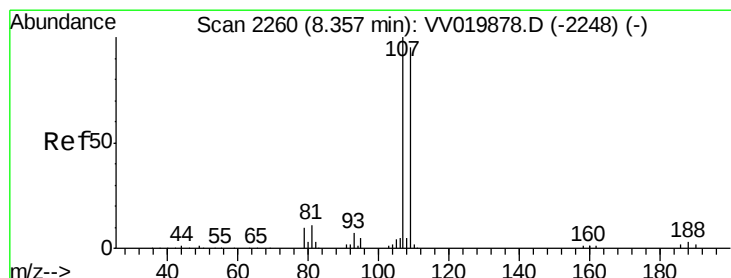
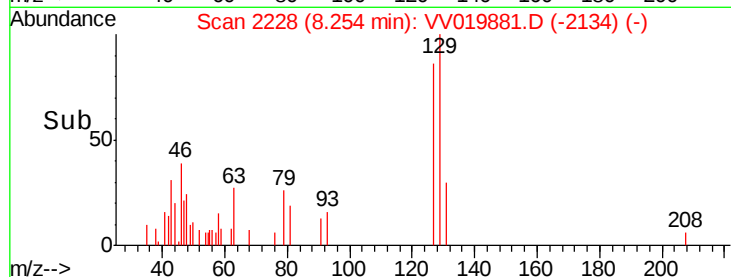
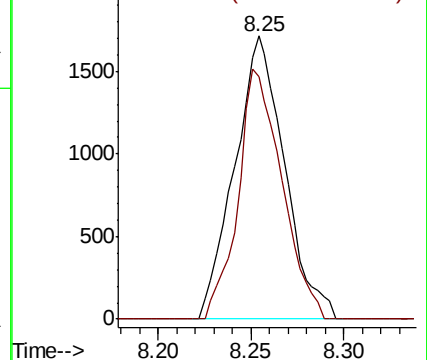
129 100

127 85.9 55.0 102.2



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#50

1,2-Dibromoethane

Concen: 0.227 ug/L

RT: 8.36 min Scan# 2262

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

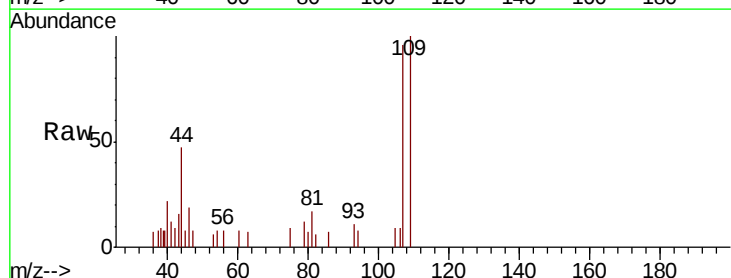
Tgt Ion:107 Resp: 2811

Ion Ratio Lower Upper

107 100

109 103.7 63.8 118.4

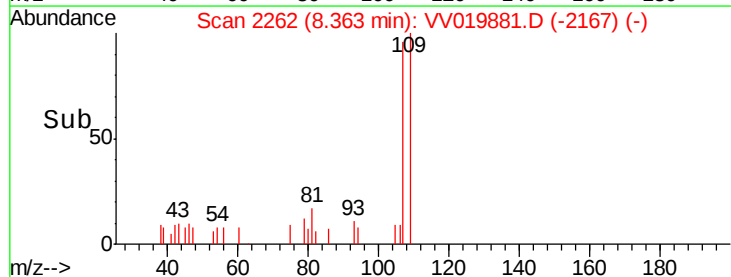
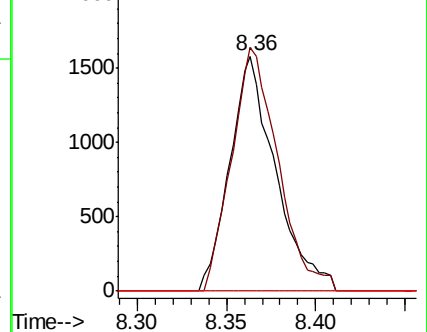
188 0.0 2.5 3.7#

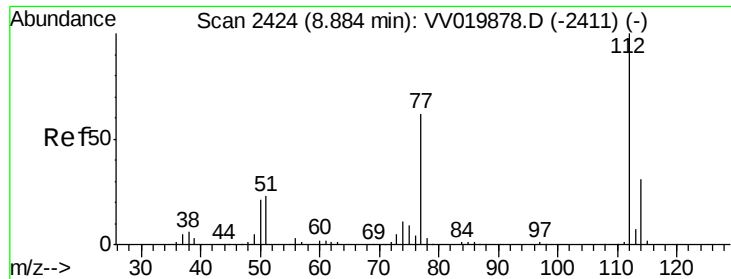


Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V

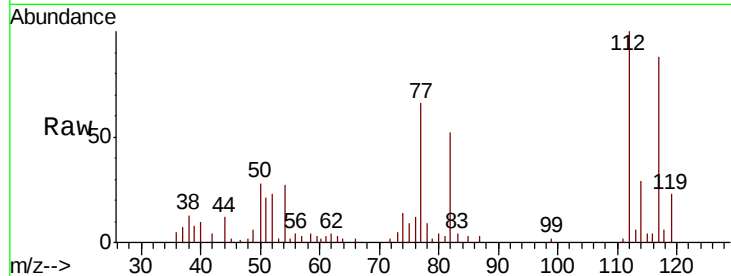




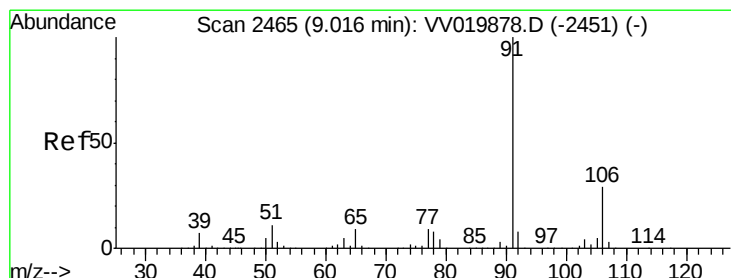
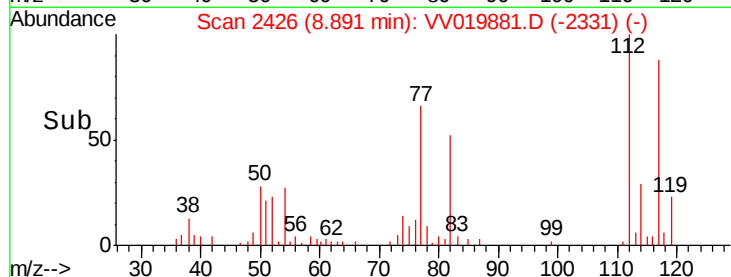
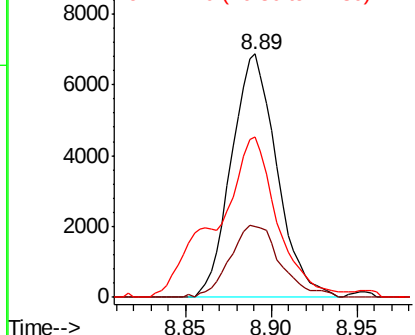
#51  
Chlorobenzene  
Concen: 0.234 ug/L  
RT: 8.89 min Scan# 2426  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-06

Tot Ion: 112 Resp: 12605  
Ion Ratio Lower Upper  
112 100  
114 29.2 21.8 40.6  
77 65.7 51.0 76.4

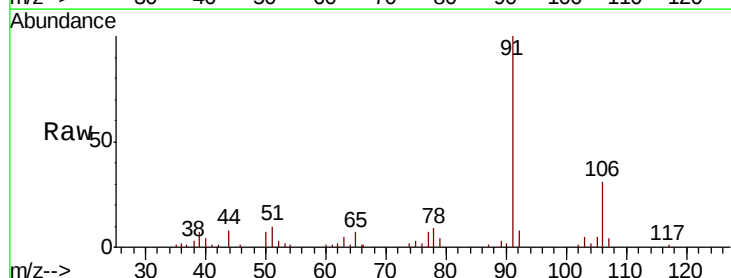


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V

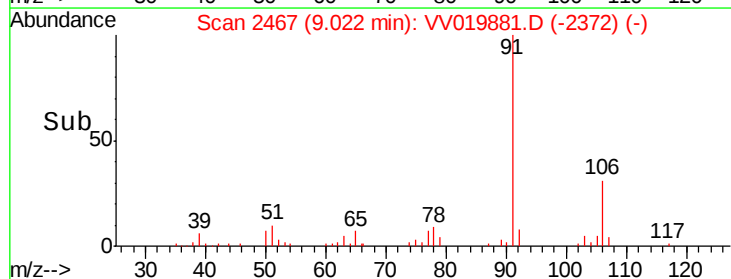
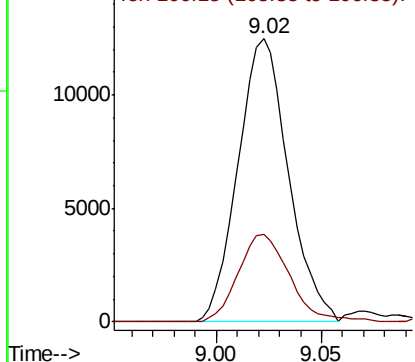


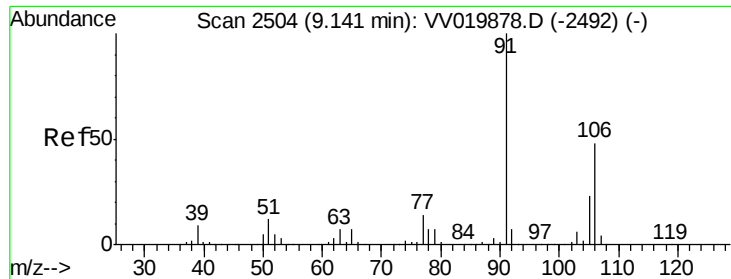
#52  
Ethylbenzene  
Concen: 0.219 ug/L  
RT: 9.02 min Scan# 2467  
Delta R.T. 0.01 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Tgt Ion: 91 Resp: 20712  
Ion Ratio Lower Upper  
91 100  
106 30.8 20.9 38.7



Abundance Ion 91.15 (90.85 to 91.85): VV0  
Ion 106.15 (105.85 to 106.85): V





#53

m,p-xylene

Concen: 0.226 ug/L

RT: 9.15 min Scan# 2506

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

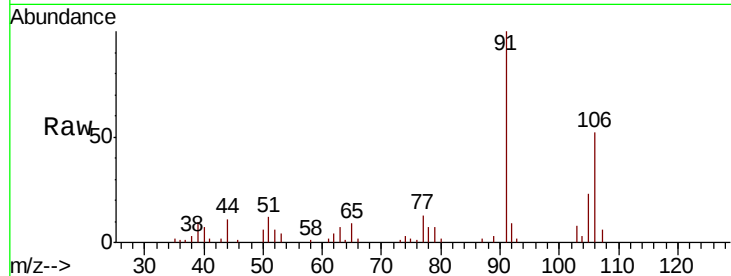
MDL-WATER-06

Tot Ion:106 Resp: 7822

Ion Ratio Lower Upper

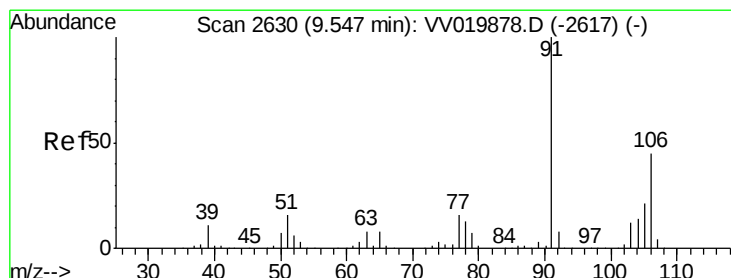
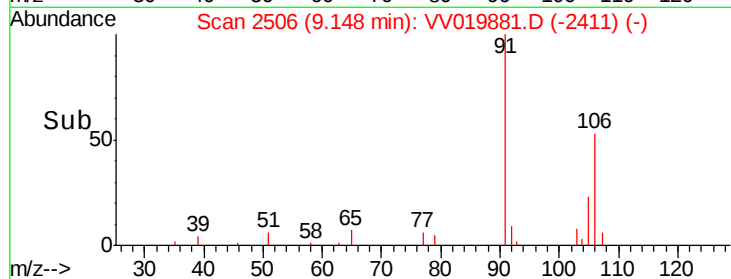
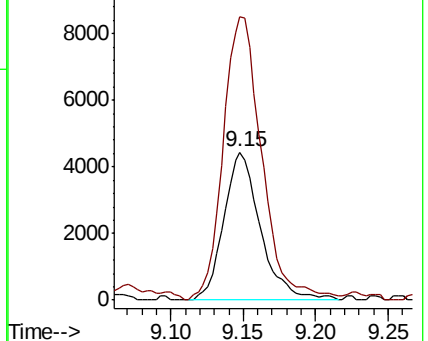
106 100

91 191.1 147.1 273.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 0.210 ug/L

RT: 9.55 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VV019881.D

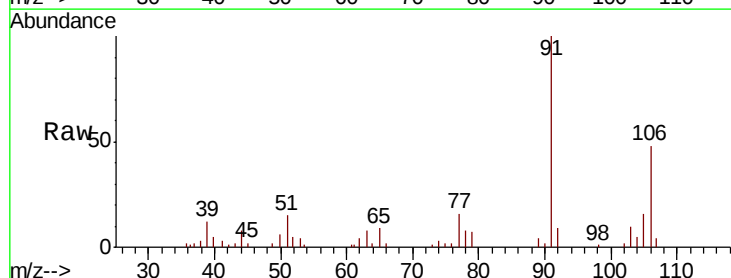
Acq: 31 Dec 2020 14:51

Tgt Ion:106 Resp: 6963

Ion Ratio Lower Upper

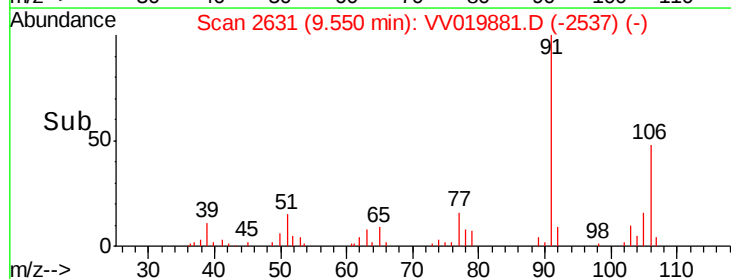
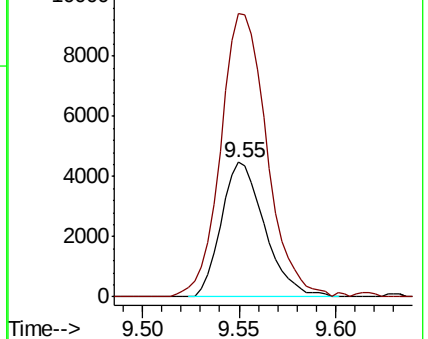
106 100

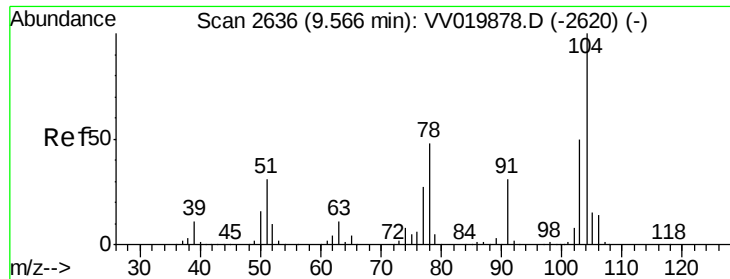
91 210.0 155.8 289.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#55

Stvrene

Concen: 0.191 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. 0.01 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

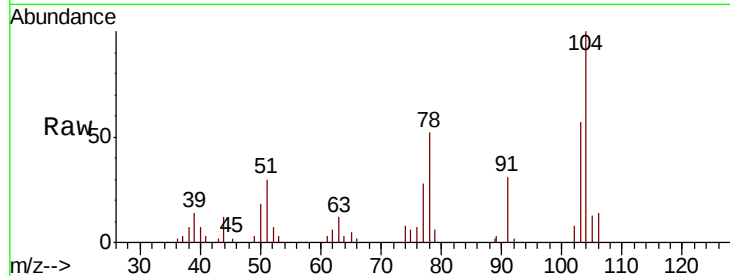
MDL-WATER-06

Tot Ion:104 Resp: 10687

Ion Ratio Lower Upper

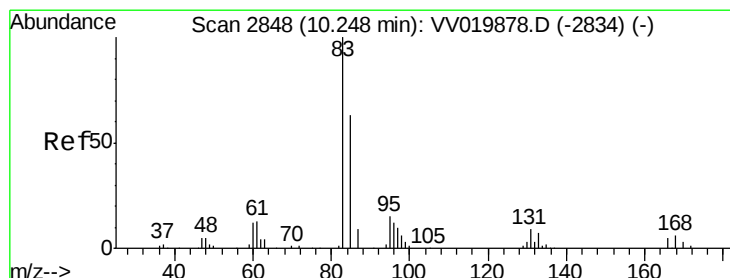
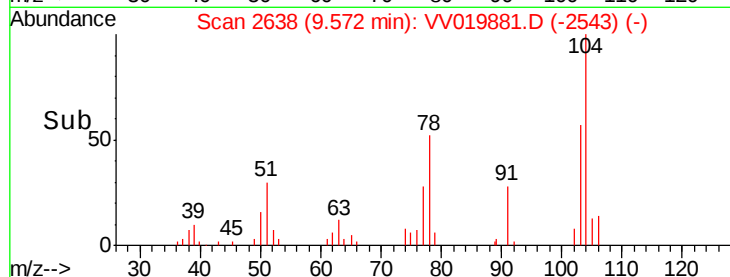
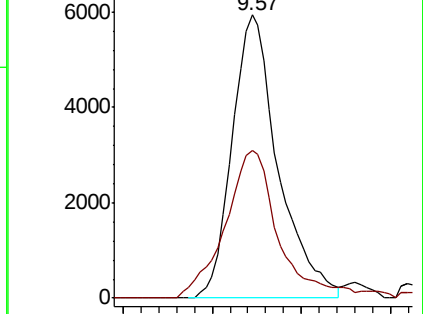
104 100

78 52.3 33.7 62.7



Abundance Ion 104.10 (103.80 to 104.80): VV019881.D (-2543) (-)

Ion 78.10 (77.80 to 78.80): VV019881.D (-2543) (-)



#57

1,1,2,2-Tetrachloroethane

Concen: 0.270 ug/L

RT: 10.25 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

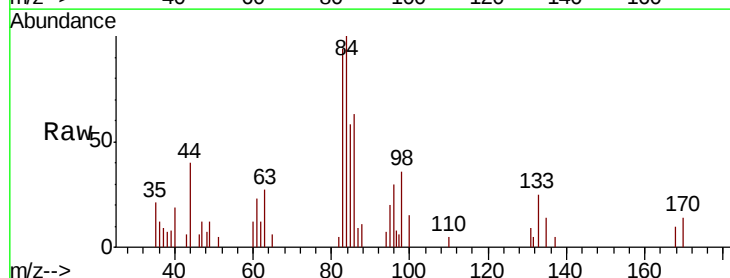
Tgt Ion: 83 Resp: 3889

Ion Ratio Lower Upper

83 100

85 61.5 44.3 82.3

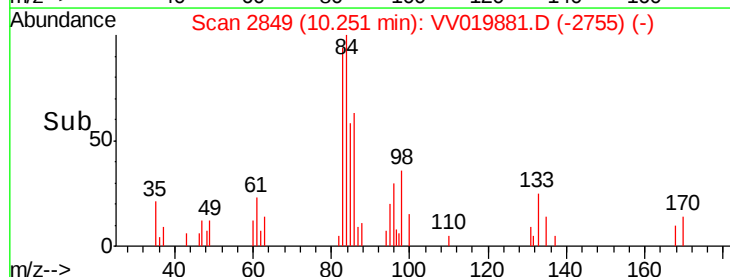
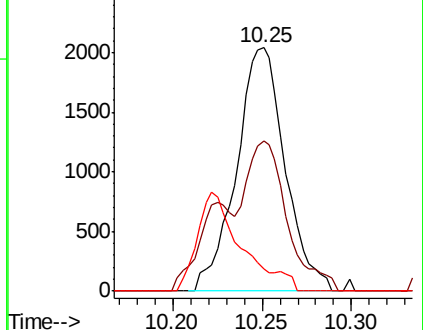
131 9.2 7.4 11.2

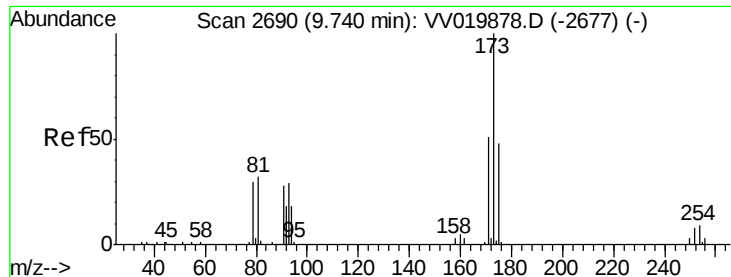


Abundance Ion 82.95 (82.65 to 83.65): VV019881.D (-2755) (-)

Ion 85.00 (84.70 to 85.70): VV019881.D (-2755) (-)

Ion 130.95 (130.65 to 131.65): VV019881.D (-2755) (-)





#59

Bromoform

Concen: 0.215 ug/L

RT: 9.74 min Scan# 2690

Delta R.T. -0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

Instrument :

MSVOA\_V

ClientSampleId :

MDL-WATER-06

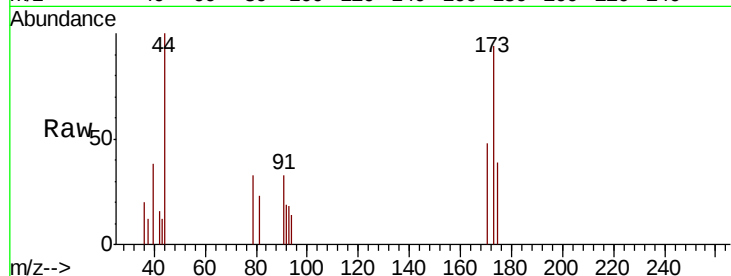
Tot Ion:173 Resp: 1367

Ion Ratio Lower Upper

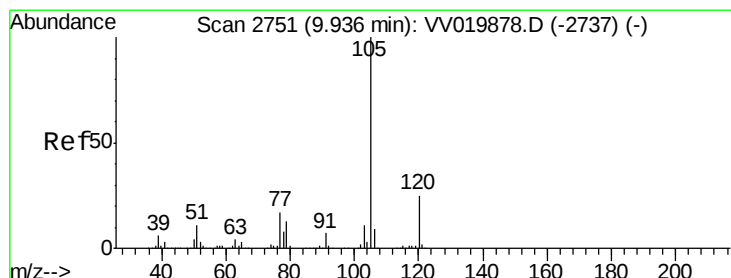
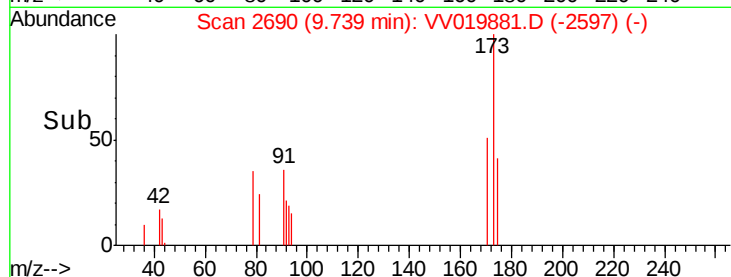
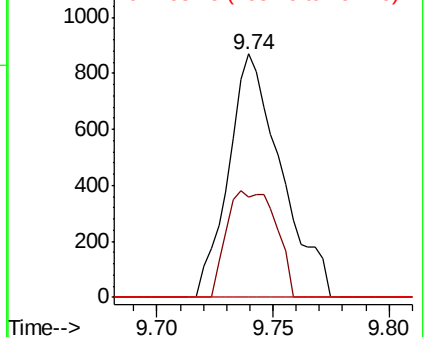
173 100

175 41.0 38.3 57.5

254 0.0 6.4 9.6#



Abundance Ion 172.90 (172.60 to 173.60): V  
Ion 174.90 (174.60 to 175.60): V  
Ion 253.75 (253.45 to 254.45): V



#60

Isopropylbenzene

Concen: 0.213 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VV019881.D

Acq: 31 Dec 2020 14:51

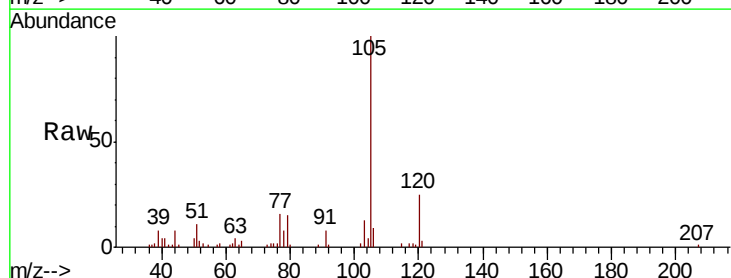
Tgt Ion:105 Resp: 18167

Ion Ratio Lower Upper

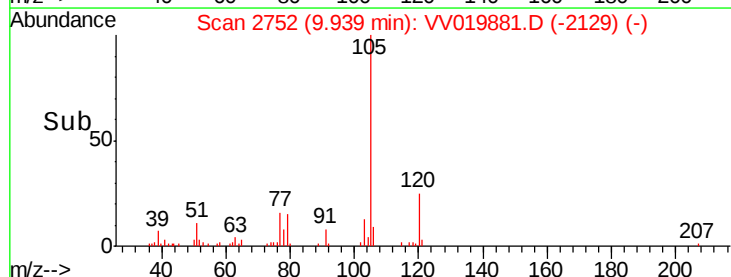
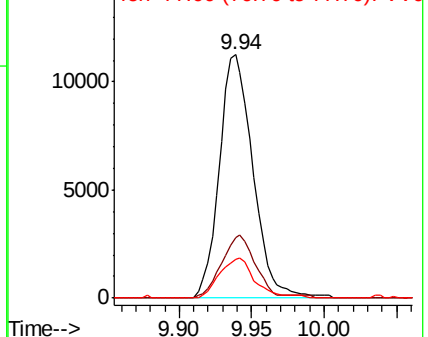
105 100

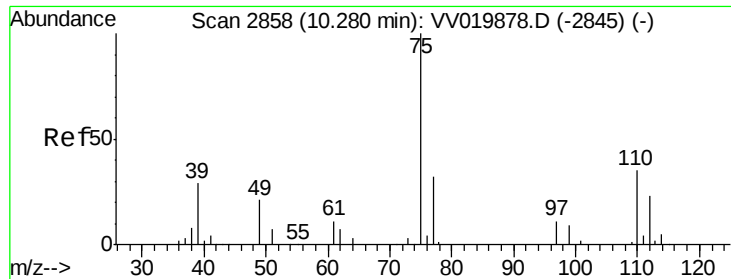
120 25.8 20.4 30.6

77 17.5 13.7 20.5



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

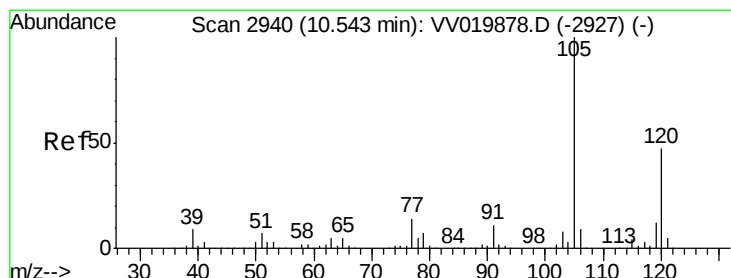
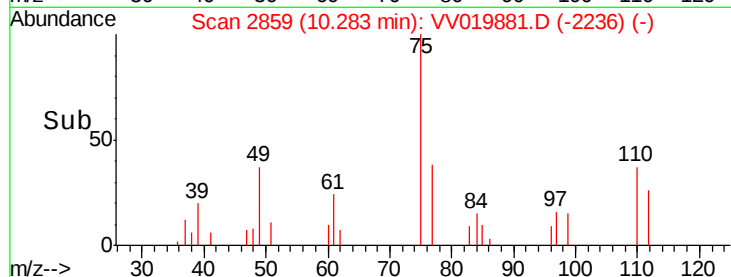
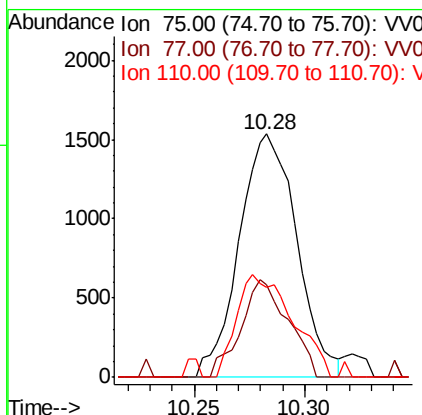
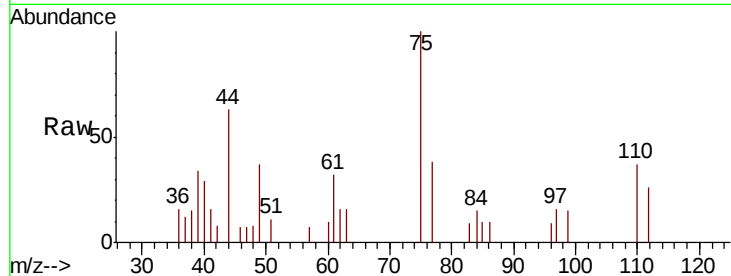




#61  
 1,2,3-Trichloropropane  
 Concen: 0.246 ug/L  
 RT: 10.28 min Scan# 2859  
 Delta R.T. 0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

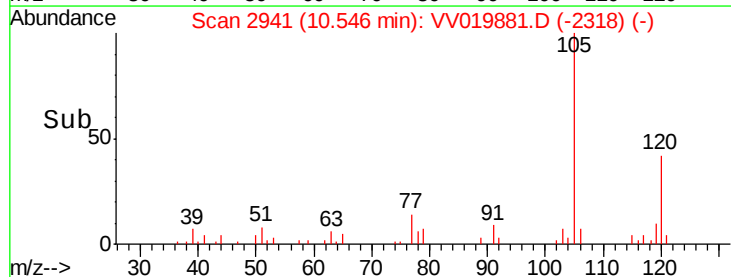
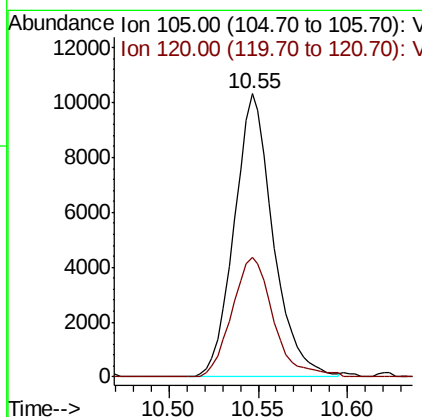
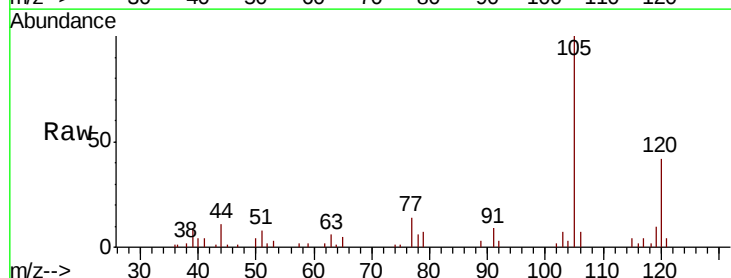
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

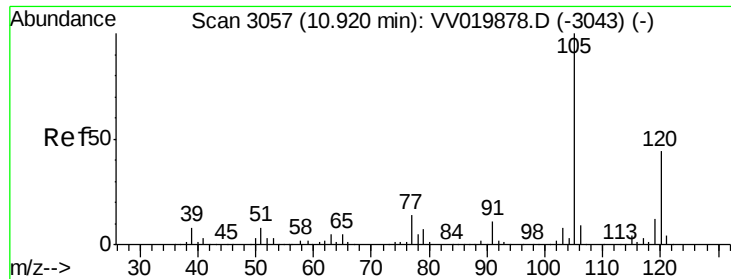
Tot Ion: 75 Resp: 2784  
 Ion Ratio Lower Upper  
 75 100  
 77 32.9 25.6 38.4  
 110 41.1 30.5 45.7



#62  
 1,3,5-Trimethylbenzene  
 Concen: 0.223 ug/L  
 RT: 10.55 min Scan# 2941  
 Delta R.T. 0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Tgt Ion: 105 Resp: 15705  
 Ion Ratio Lower Upper  
 105 100  
 120 44.7 37.8 56.6

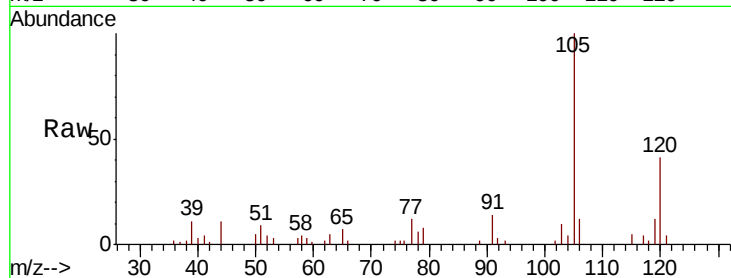




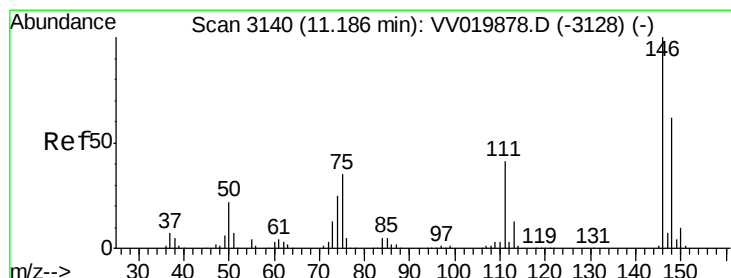
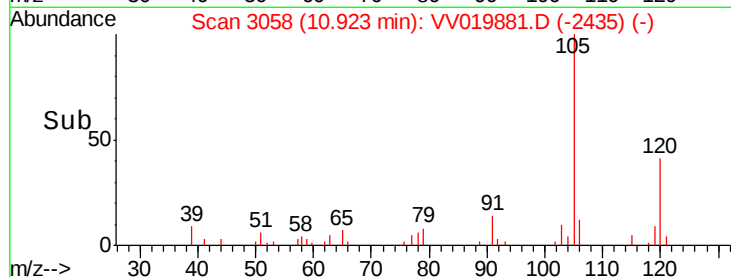
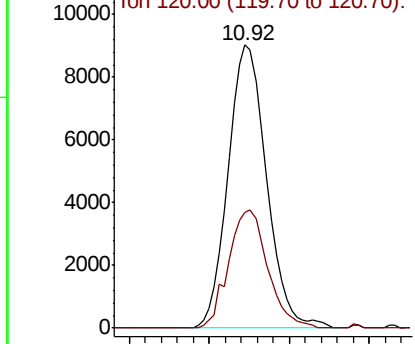
#63  
 1,2,4-Trimethylbenzene  
 Concen: 0.206 ug/L  
 RT: 10.92 min Scan# 3058  
 Delta R.T. 0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

Tot Ion:105 Resp: 14776  
 Ion Ratio Lower Upper  
 105 100  
 120 42.5 34.9 52.3

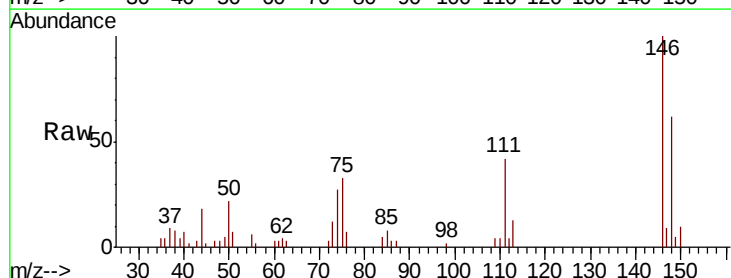


Abundance Ion 105.00 (104.70 to 105.70): V  
 Ion 120.00 (119.70 to 120.70): V

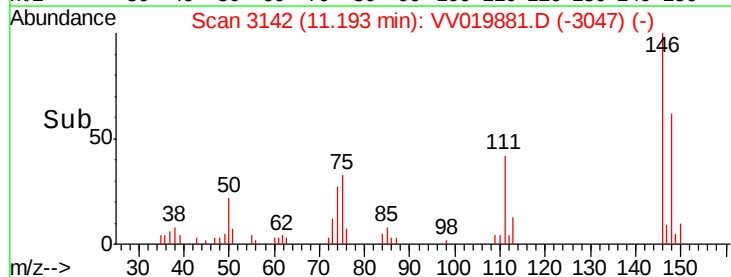
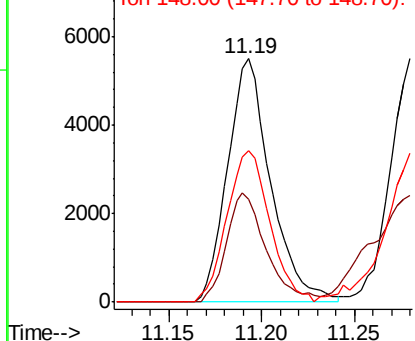


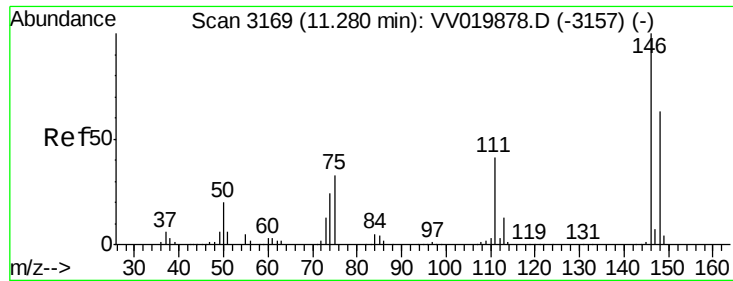
#64  
 1,3-Dichlorobenzene  
 Concen: 0.238 ug/L  
 RT: 11.19 min Scan# 3142  
 Delta R.T. 0.01 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Tgt Ion:146 Resp: 8888  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 30.4 56.5  
 148 62.1 45.8 85.2



Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

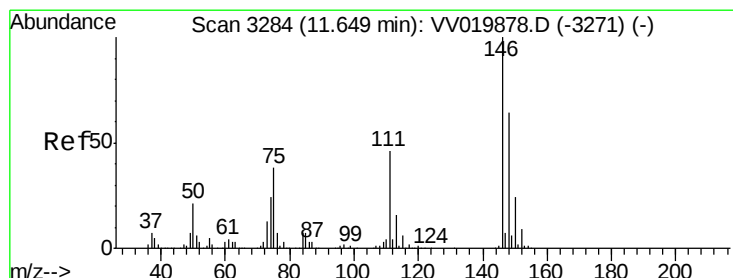
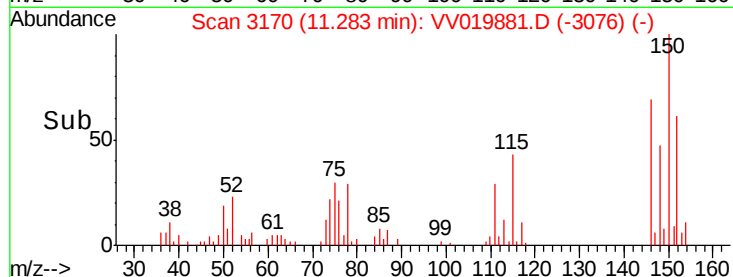
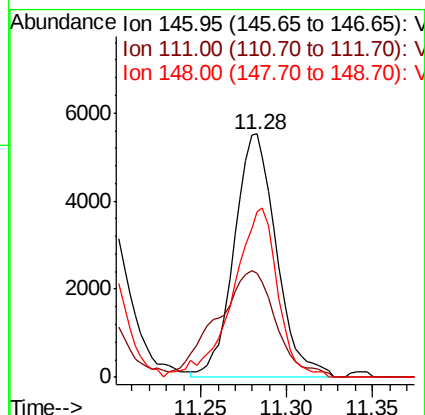
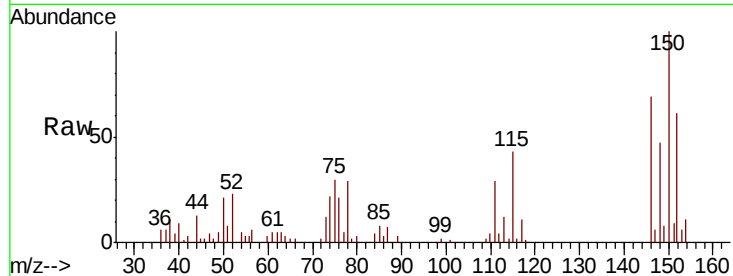




#65  
 1,4-Dichlorobenzene  
 Concen: 0.252 ug/L  
 RT: 11.28 min Scan# 3170  
 Delta R.T. 0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

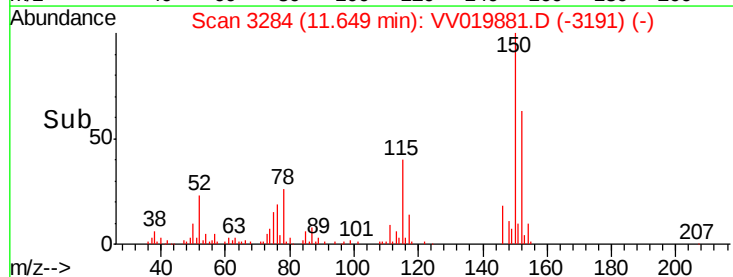
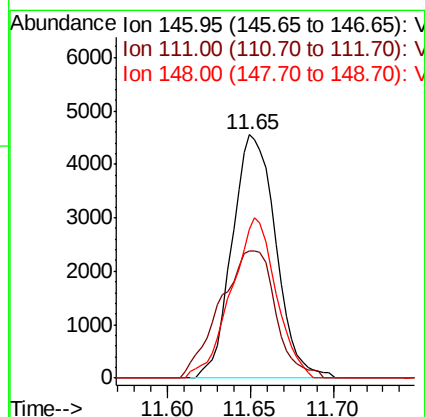
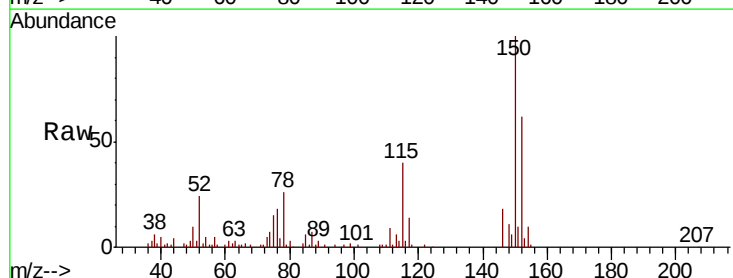
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

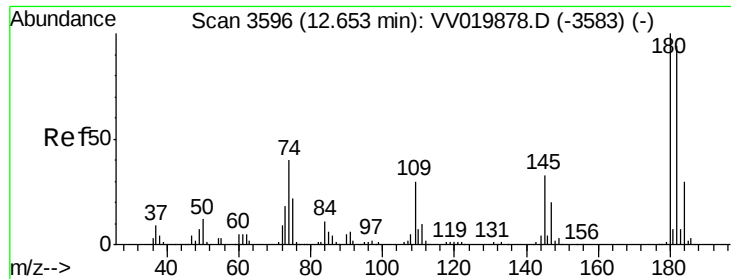
Tot Ion:146 Resp: 9467  
 Ion Ratio Lower Upper  
 146 100  
 111 47.9 29.7 55.1  
 148 67.8 45.1 83.7



#67  
 1,2-Dichlorobenzene  
 Concen: 0.243 ug/L  
 RT: 11.65 min Scan# 3284  
 Delta R.T. -0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Tgt Ion:146 Resp: 8350  
 Ion Ratio Lower Upper  
 146 100  
 111 52.4 37.7 56.5  
 148 61.4 50.6 75.8

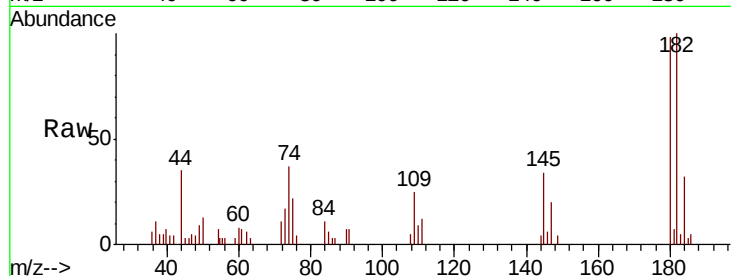




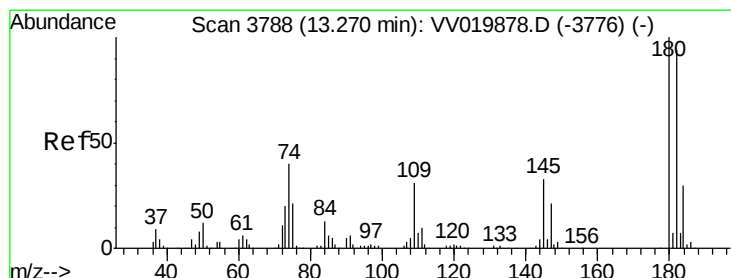
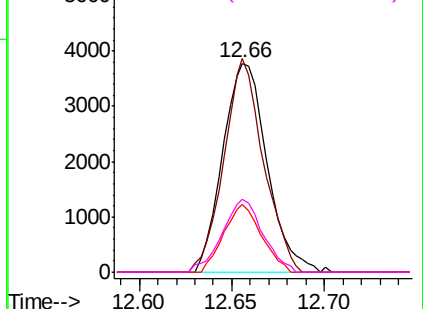
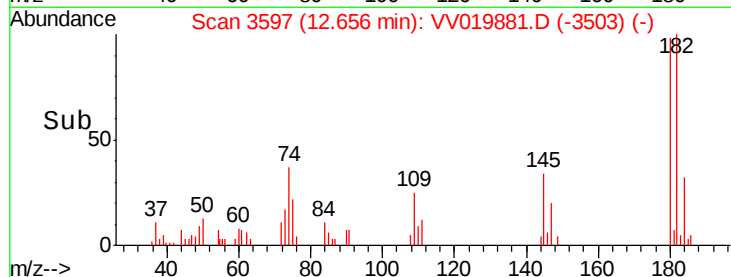
#69  
 1,3,5-Trichlorobenzene  
 Concen: 0.226 ug/L  
 RT: 12.66 min Scan# 3597  
 Delta R.T. 0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL-WATER-06

Tot Ion:180 Resp: 6271  
 Ion Ratio Lower Upper  
 180 100  
 182 90.6 75.9 113.9  
 184 27.5 23.5 35.3  
 145 31.9 26.2 39.2

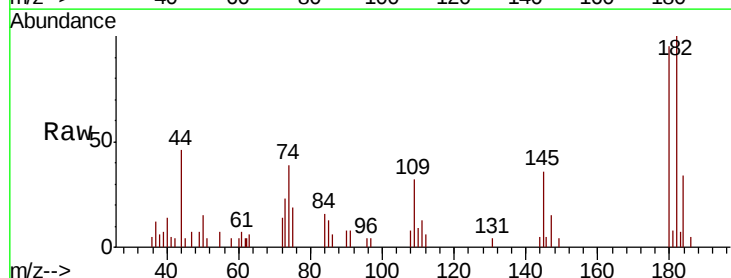


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

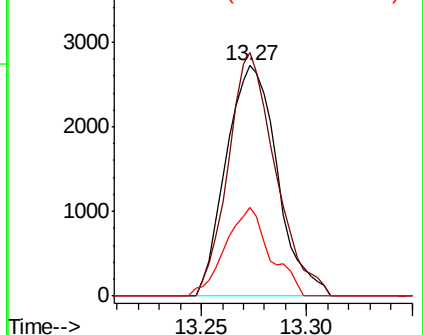
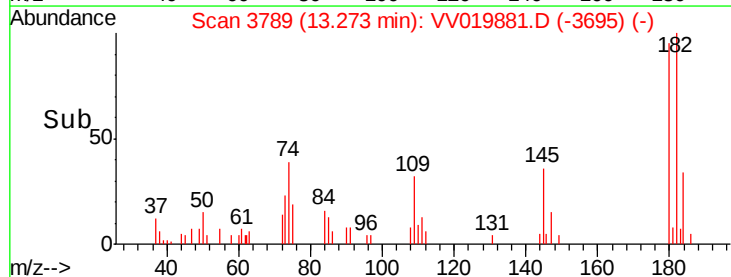


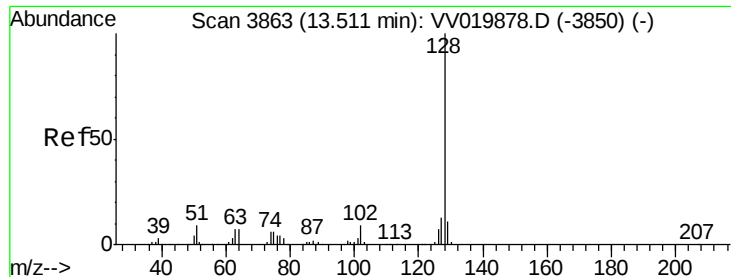
#70  
 1,2,4-trichlorobenzene  
 Concen: 0.203 ug/L  
 RT: 13.27 min Scan# 3789  
 Delta R.T. 0.00 min  
 Lab File: VV019881.D  
 Acq: 31 Dec 2020 14:51

Tgt Ion:180 Resp: 4581  
 Ion Ratio Lower Upper  
 180 100  
 182 97.4 75.9 113.9  
 145 33.6 26.6 39.8



Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

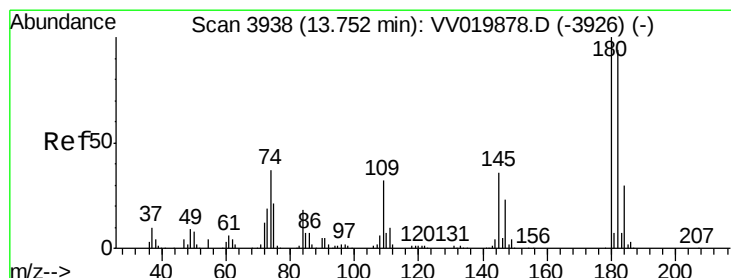
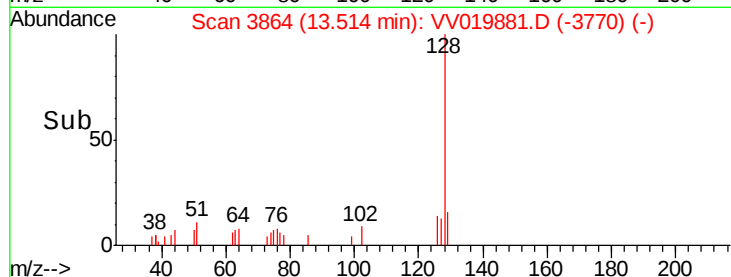
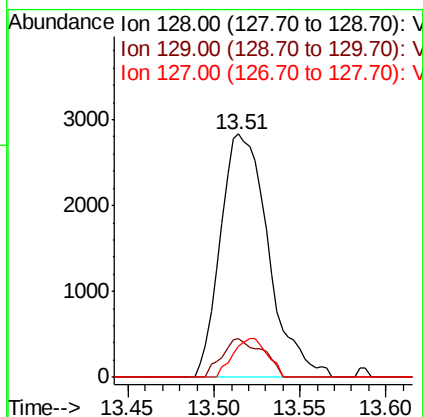
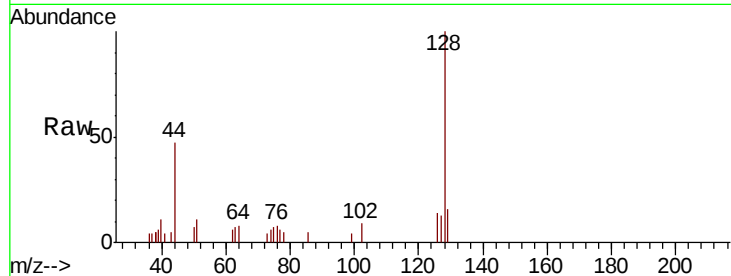




#71  
Naphthalene  
Concen: 0.162 ug/L  
RT: 13.51 min Scan# 3864  
Delta R.T. 0.00 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL-WATER-06

Tot Ion:128 Resp: 5528  
Ion Ratio Lower Upper  
128 100  
129 13.6 8.5 12.7#  
127 11.4 10.2 15.4



#72  
1,2,3-Trichlorobenzene  
Concen: 0.202 ug/L  
RT: 13.75 min Scan# 3938  
Delta R.T. -0.00 min  
Lab File: VV019881.D  
Acq: 31 Dec 2020 14:51

Tgt Ion:180 Resp: 3880  
Ion Ratio Lower Upper  
180 100  
182 92.2 74.6 112.0  
145 34.5 28.8 43.2

