

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050820\  
 Data File : VX016120.D  
 Acq On : 08 May 2020 14:56  
 Operator : JC/SP  
 Sample : L2563-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 09 01:48:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 271313   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 452669   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 442960   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 231382   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 171177   | 47.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.90%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 133802   | 46.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.32%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 560170   | 50.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.38% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 223749   | 53.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.48% |          |

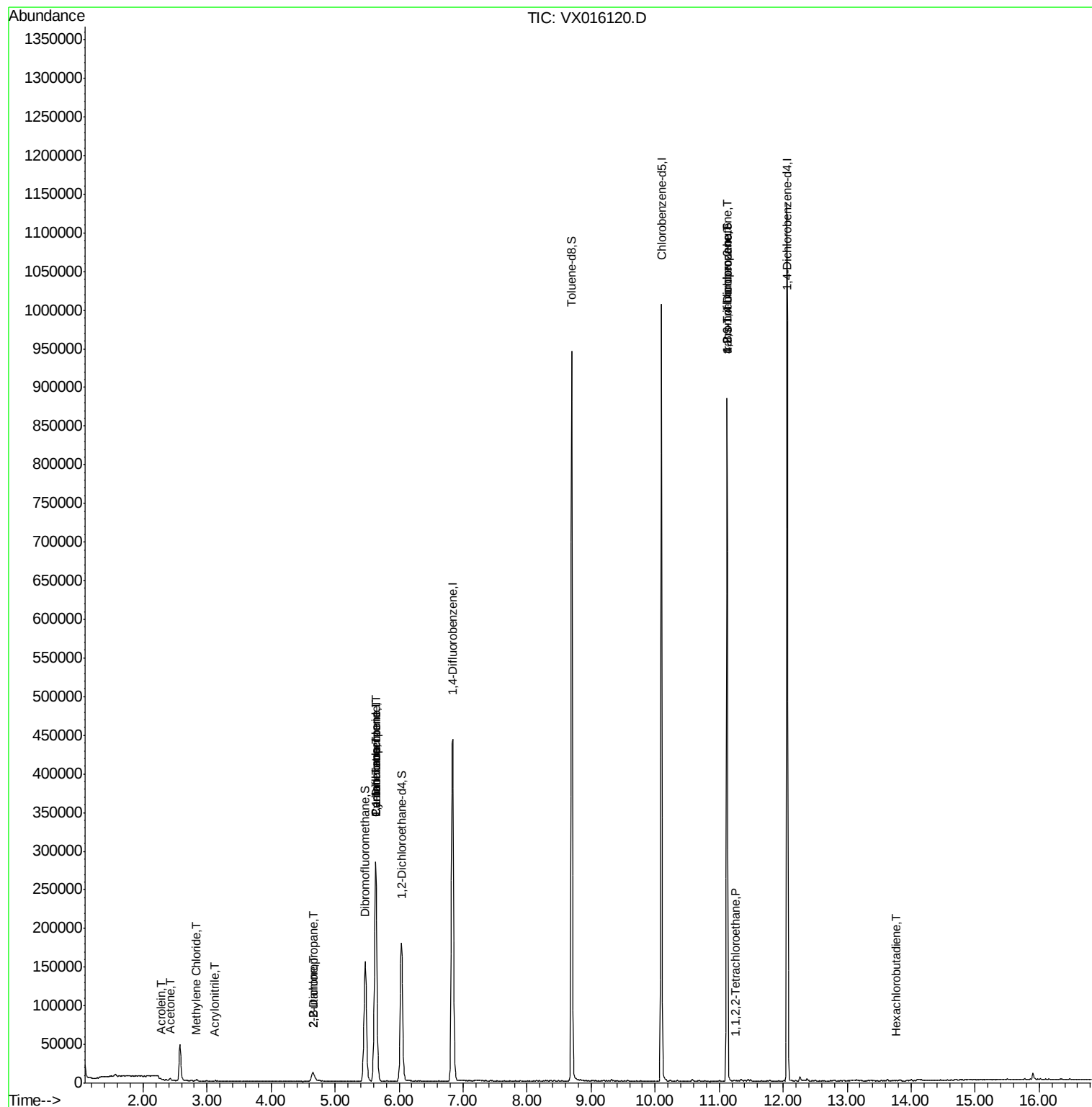
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 13) Acrolein                   | 2.28  | 56   | 252      | 0.446  | ug/l # | 14     |
| 15) Acrylonitrile              | 3.12  | 53   | 413      | 0.221  | ug/l # | 80     |
| 16) Acetone                    | 2.42  | 43   | 2890     | 1.814  | ug/l   | 94     |
| 20) Methylene Chloride         | 2.83  | 84   | 826      | 0.252  | ug/l # | 78     |
| 25) 2-Butanone                 | 4.65  | 43   | 822      | 0.320  | ug/l # | 48     |
| 26) 2,2-Dichloropropane        | 4.65  | 77   | 1303     | 0.261  | ug/l # | 53     |
| 31) Cyclohexane                | 5.64  | 56   | 5660     | 1.141  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 20561    | 4.614  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 26252    | 5.796  | ug/l # | 15     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 21       | 2.056  | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 112504   | 21.427 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 112504   | 51.062 | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 83       | 0.558  | ug/l   | 66     |

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

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QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

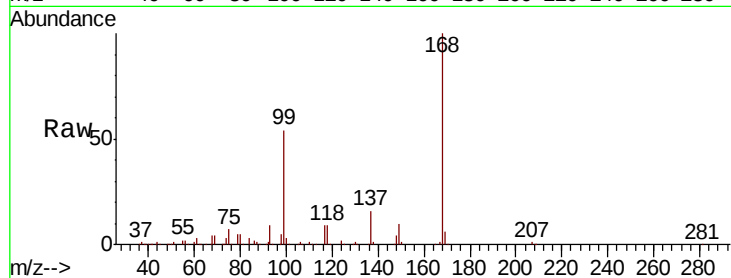
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 271313

Ion Ratio Lower Upper

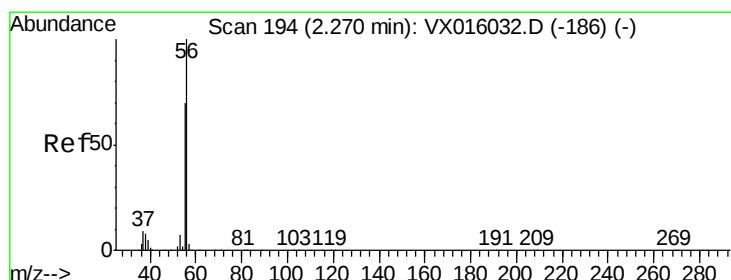
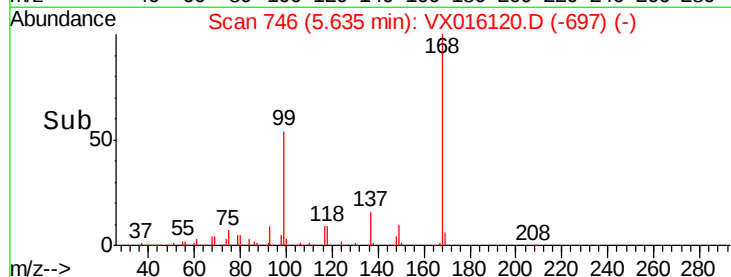
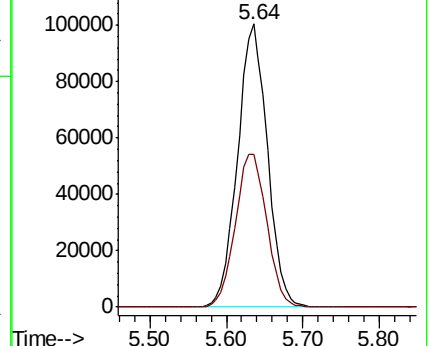
168 100

99 53.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#13

Acrolein

Concen: 0.446 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016120.D

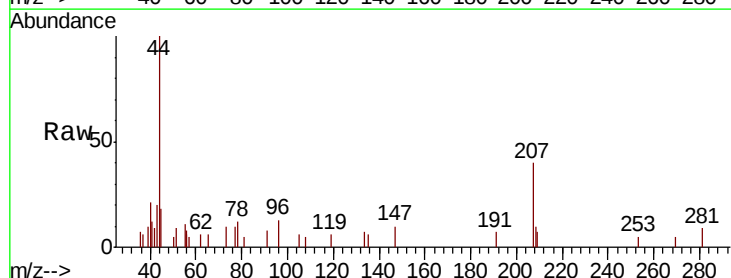
Acq: 08 May 2020 14:56

Tgt Ion: 56 Resp: 252

Ion Ratio Lower Upper

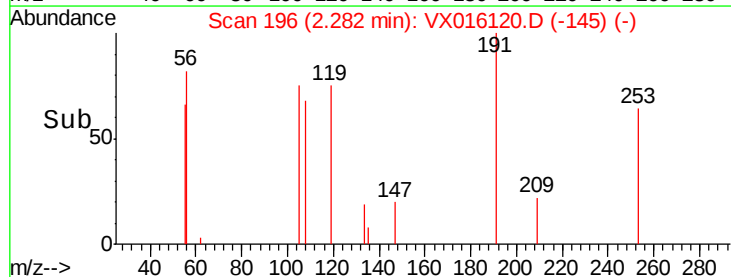
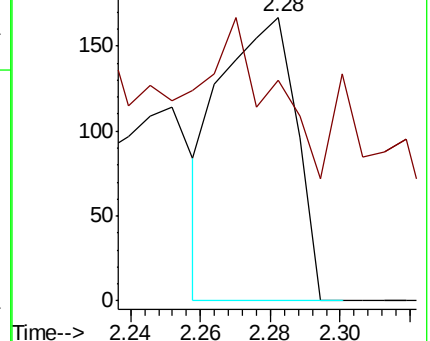
56 100

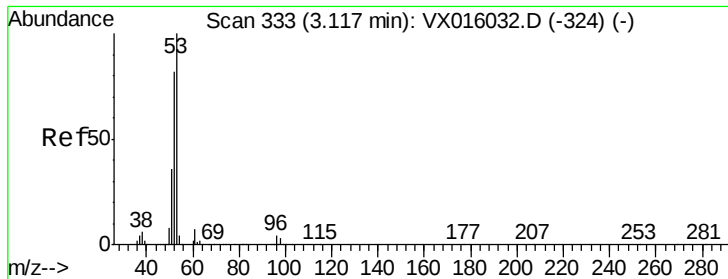
55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.221 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

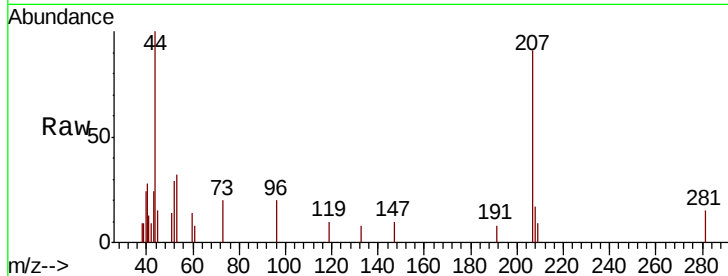
Tot Ion: 53 Resp: 413

Ion Ratio Lower Upper

53 100

52 66.8 66.1 99.1

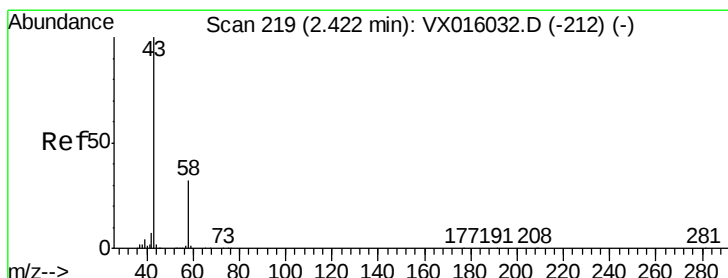
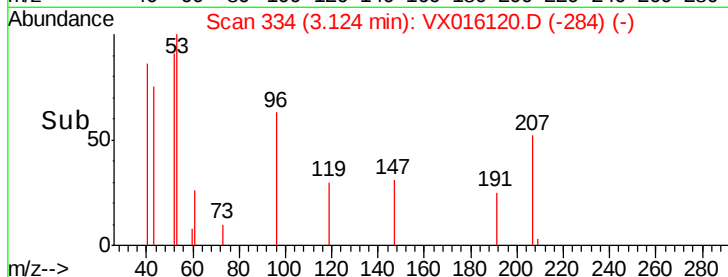
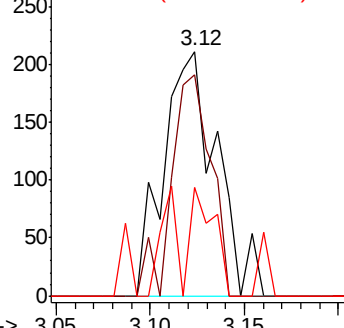
51 20.1 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 1.814 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX016120.D

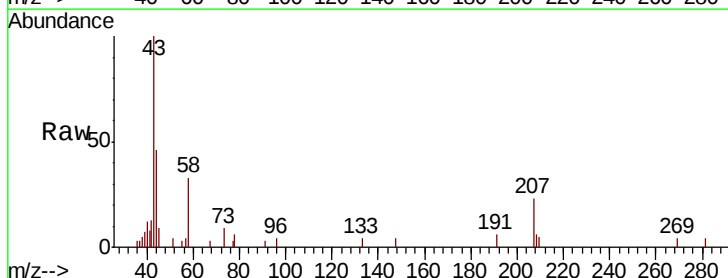
Acq: 08 May 2020 14:56

Tgt Ion: 43 Resp: 2890

Ion Ratio Lower Upper

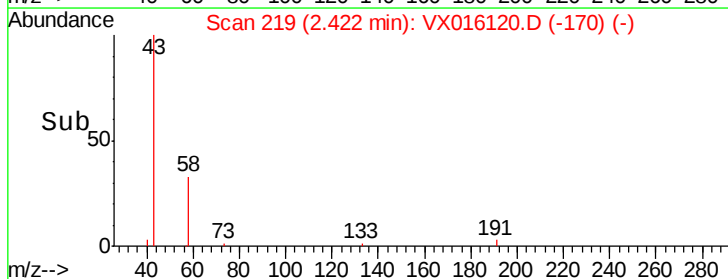
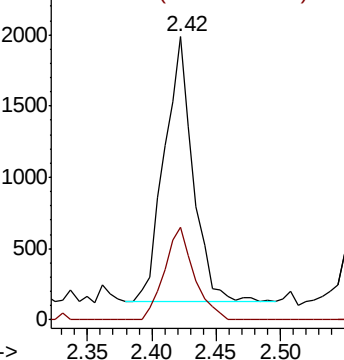
43 100

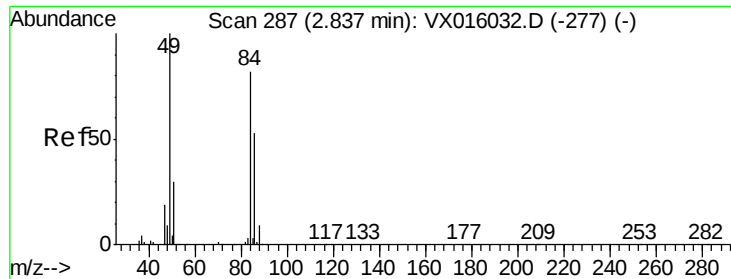
58 35.2 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

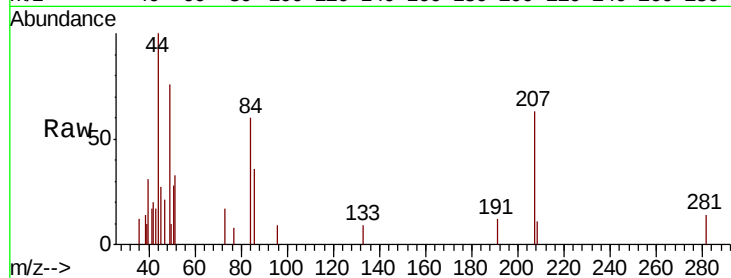




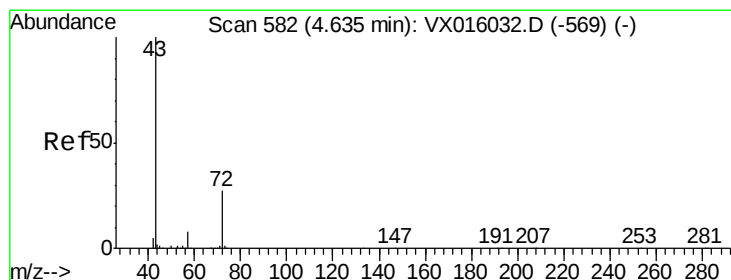
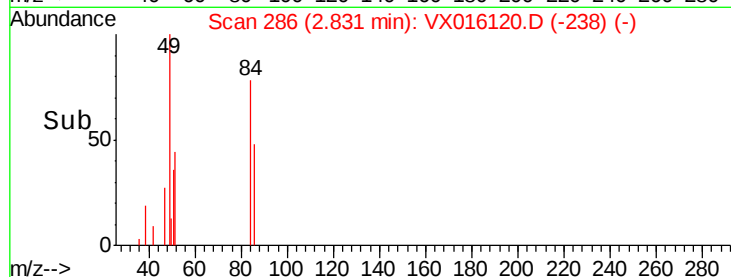
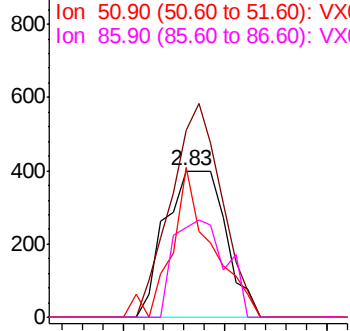
#20  
Methylene Chloride  
Concen: 0.252 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. -0.01 min  
Lab File: VX016120.D  
Acq: 08 May 2020 14:56

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 826   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 127.7 | 97.3  | 145.9 |
| 51       | 102.0 | 29.3  | 43.9# |
| 86       | 61.0  | 51.3  | 76.9  |

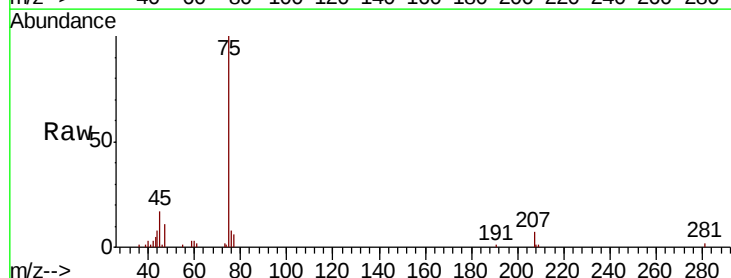


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

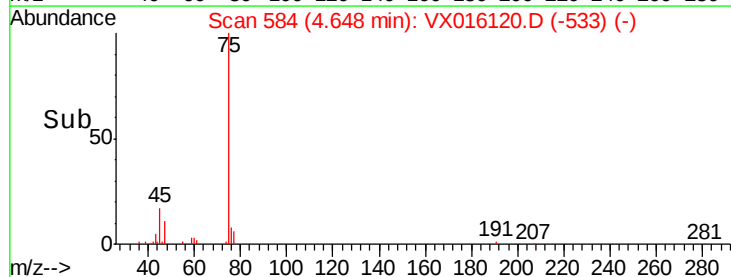
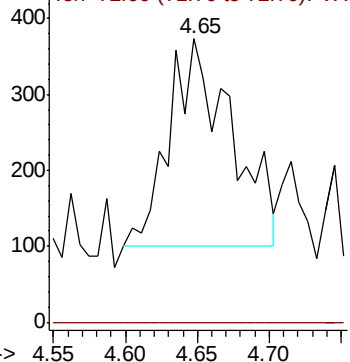


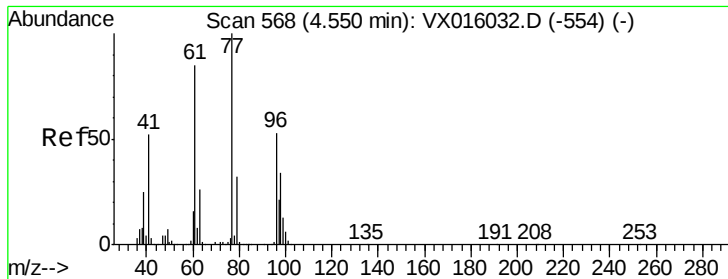
#25  
2-Butanone  
Concen: 0.320 ug/l  
RT: 4.65 min Scan# 584  
Delta R.T. 0.01 min  
Lab File: VX016120.D  
Acq: 08 May 2020 14:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 822   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 21.8  | 32.8# |



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.261 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.10 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

Instrument :

MSVOA\_X

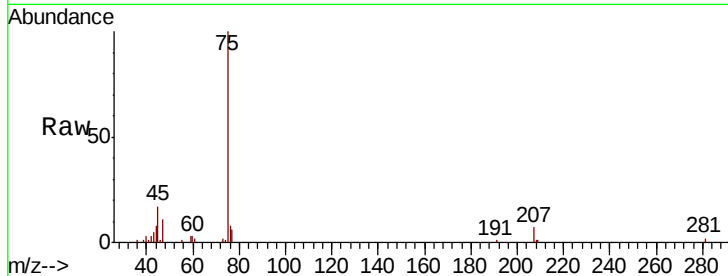
ClientSampleId :

Tot Ion: 77 Resp: 1303

Ion Ratio Lower Upper

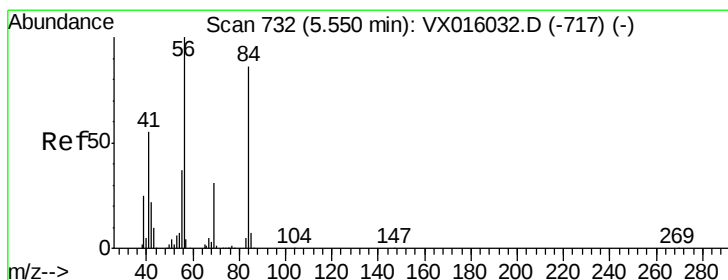
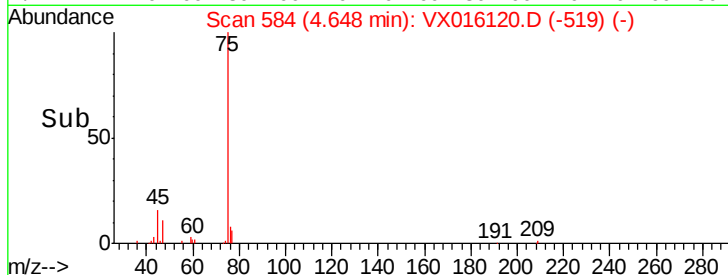
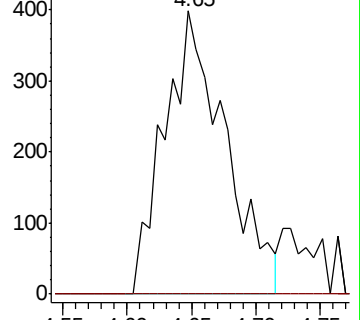
77 100

97 0.0 11.2 33.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 1.141 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

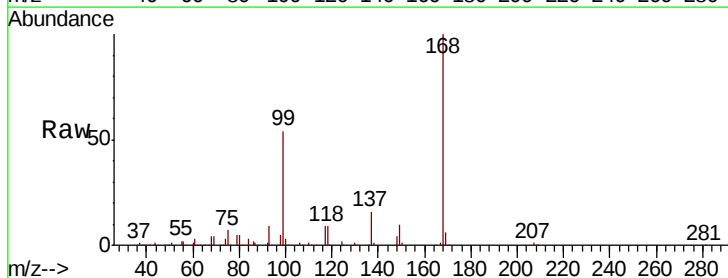
Tgt Ion: 56 Resp: 5660

Ion Ratio Lower Upper

56 100

69 187.7 25.0 37.6#

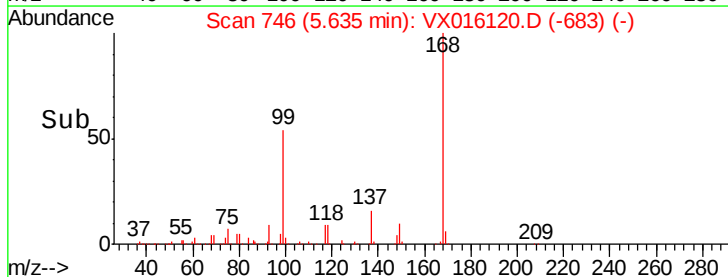
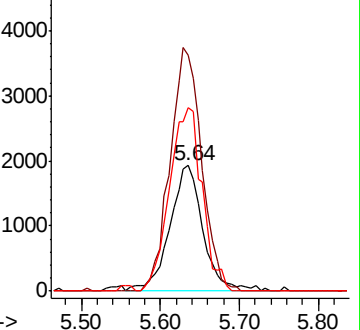
84 146.7 69.0 103.6#

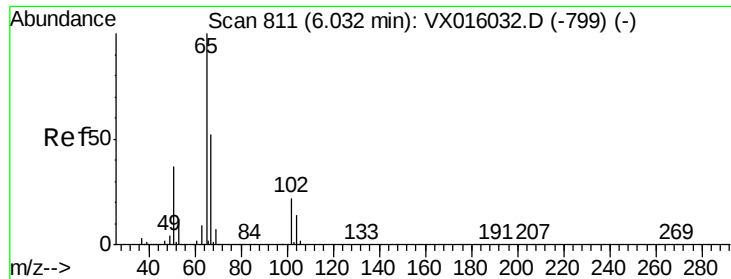


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

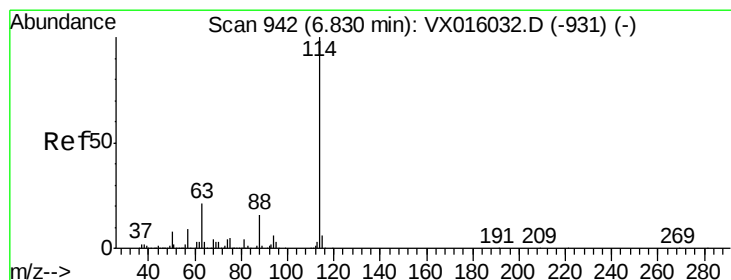
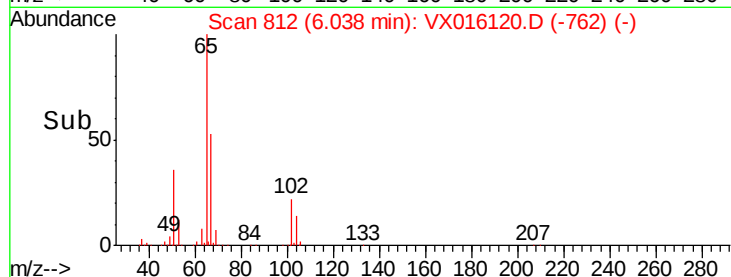
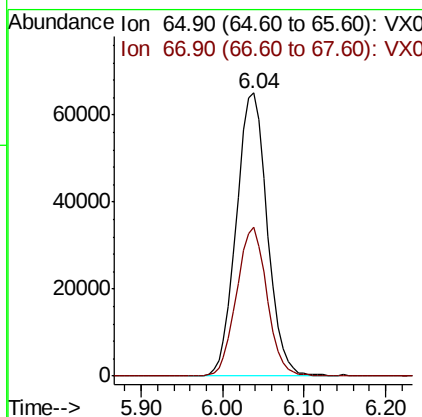
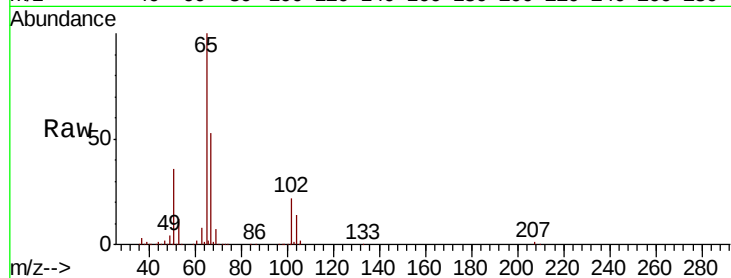




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.946 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. 0.01 min  
 Lab File: VX016120.D  
 Acq: 08 May 2020 14:56

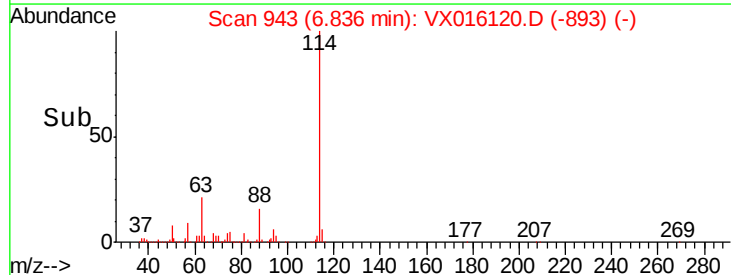
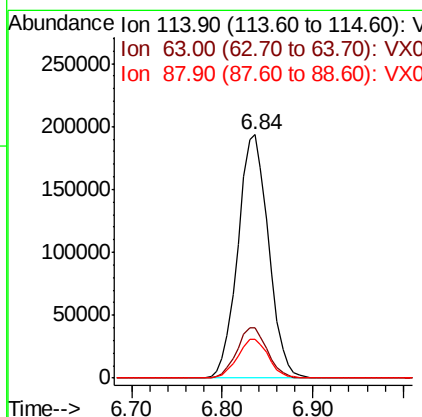
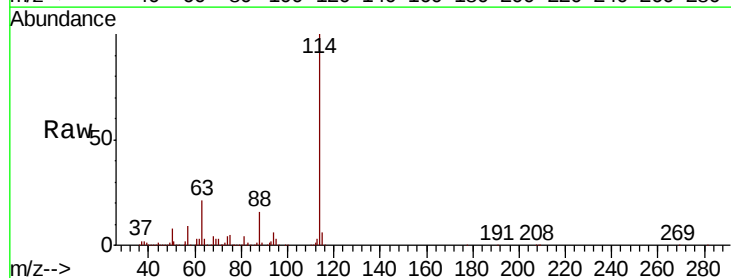
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 65 Resp: 171177  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. 0.01 min  
 Lab File: VX016120.D  
 Acq: 08 May 2020 14:56

Tgt Ion: 114 Resp: 452669  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 42.8  
 88 15.9 0.0 31.4

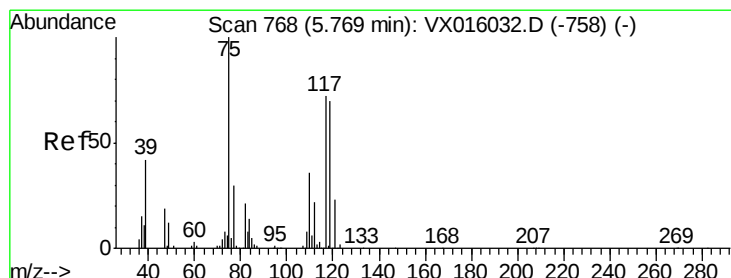
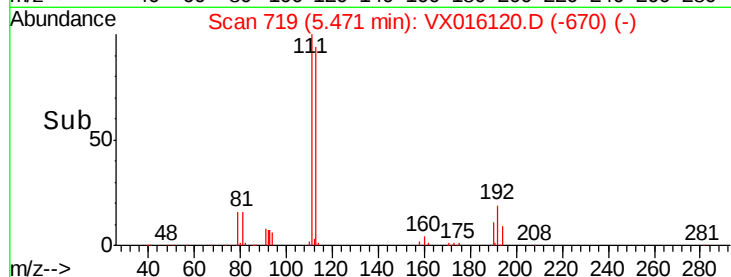
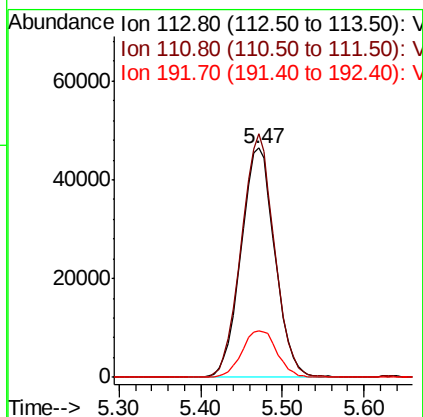
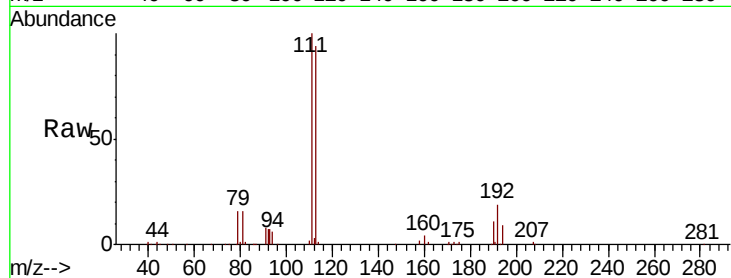




#35  
 Dibromofluoromethane  
 Concen: 46.656 ug/l  
 RT: 5.47 min Scan# 719  
 Delta R.T. 0.00 min  
 Lab File: VX016120.D  
 Acq: 08 May 2020 14:56

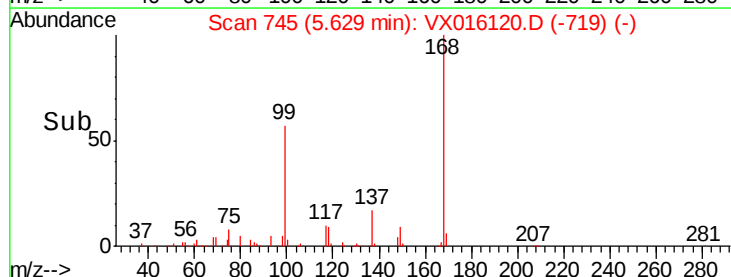
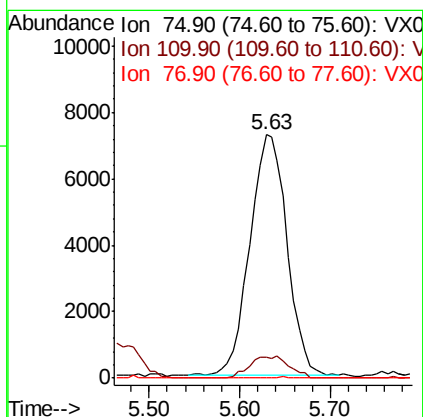
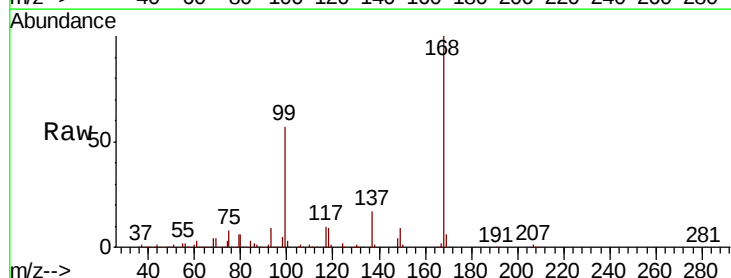
Instrument :  
 MSVOA\_X  
 ClientSampleId :

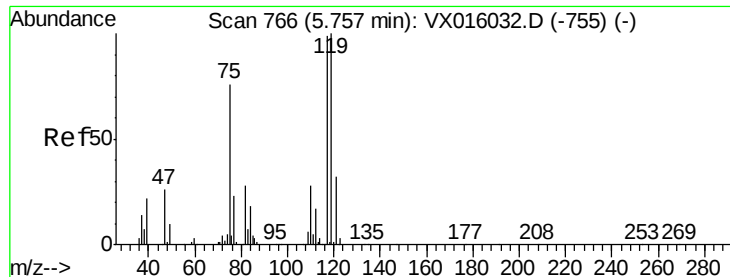
Tot Ion:113 Resp: 133802  
 Ion Ratio Lower Upper  
 113 100  
 111 103.4 81.6 122.4  
 192 21.0 17.0 25.4



#36  
 1,1-Dichloropropene  
 Concen: 4.614 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX016120.D  
 Acq: 08 May 2020 14:56

Tgt Ion: 75 Resp: 20561  
 Ion Ratio Lower Upper  
 75 100  
 110 9.5 18.1 54.1#  
 77 0.1 25.0 37.6#

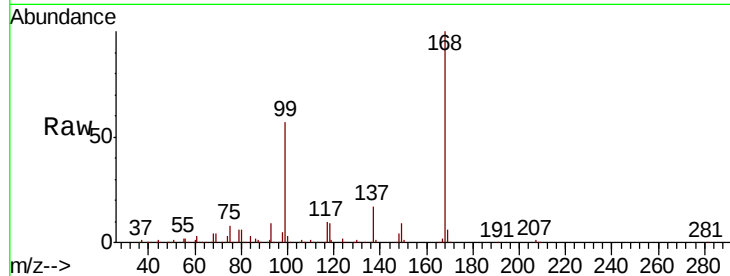




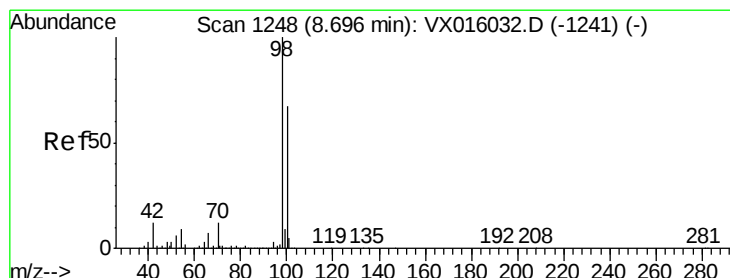
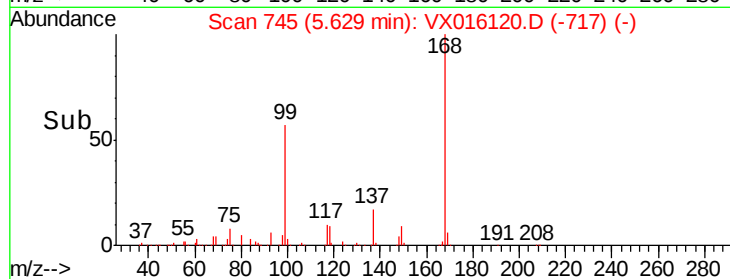
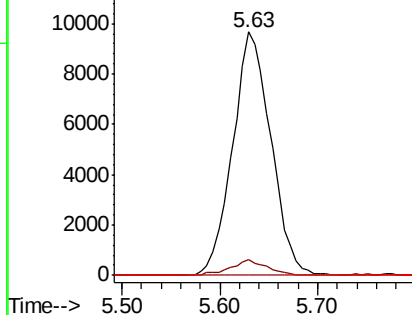
#38  
Carbon Tetrachloride  
Concen: 5.796 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. -0.13 min  
Lab File: VX016120.D  
Acq: 08 May 2020 14:56

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 26252  
Ion Ratio Lower Upper  
117 100  
119 6.3 80.3 120.5#  
121 0.0 25.7 38.5#

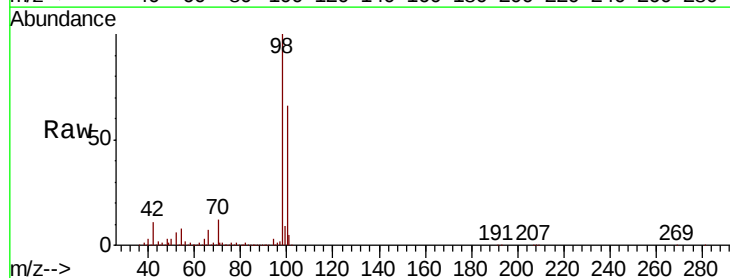


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

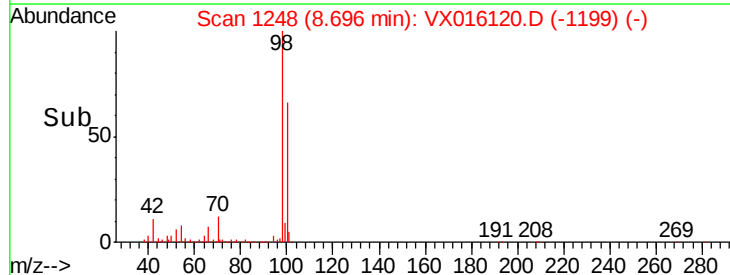
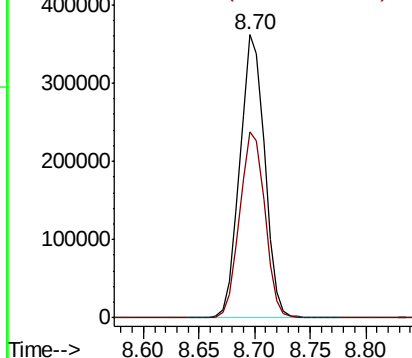


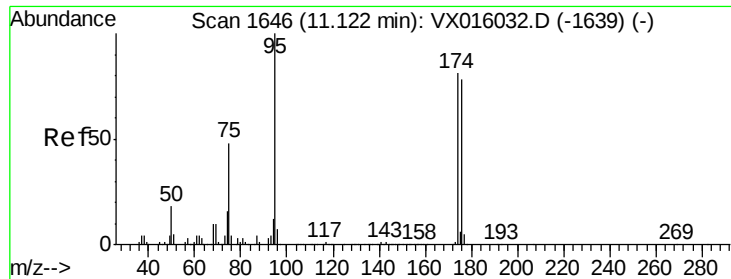
#50  
Toluene-d8  
Concen: 50.694 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. 0.00 min  
Lab File: VX016120.D  
Acq: 08 May 2020 14:56

Tgt Ion: 98 Resp: 560170  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 53.237 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

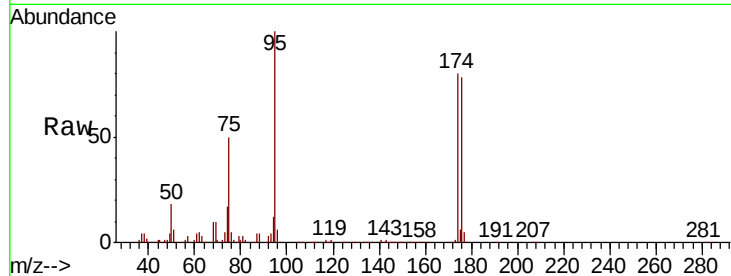
Tot Ion: 95 Resp: 223749

Ion Ratio Lower Upper

95 100

174 80.5 0.0 159.4

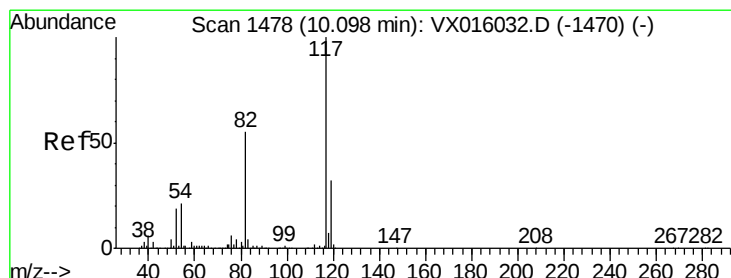
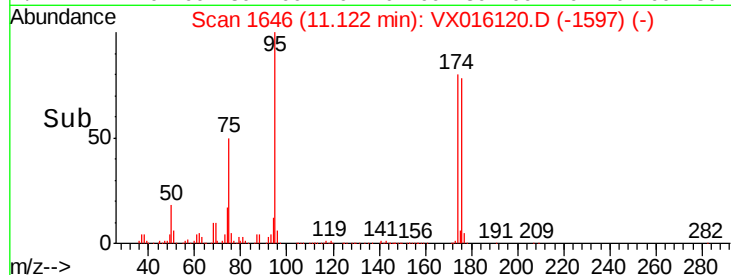
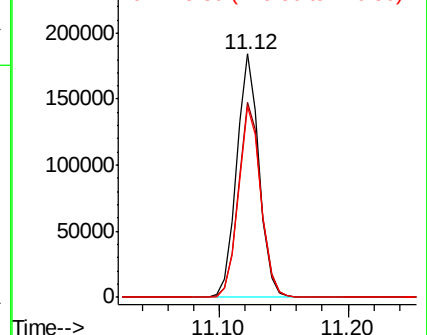
176 78.8 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016120.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016120.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016120.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

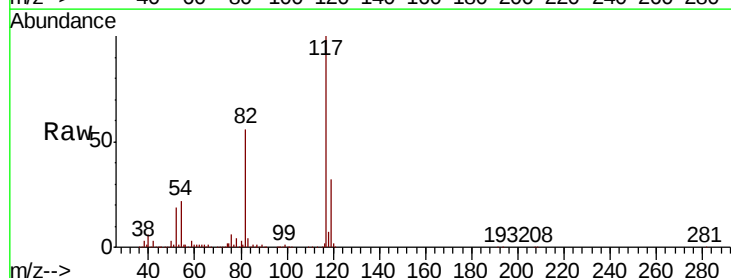
Tgt Ion: 117 Resp: 442960

Ion Ratio Lower Upper

117 100

82 55.9 44.4 66.6

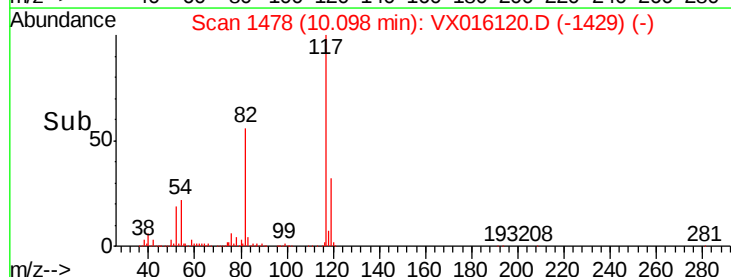
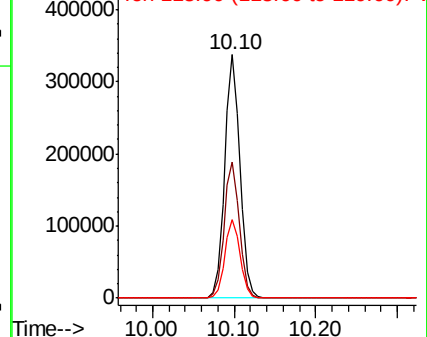
119 32.1 25.5 38.3

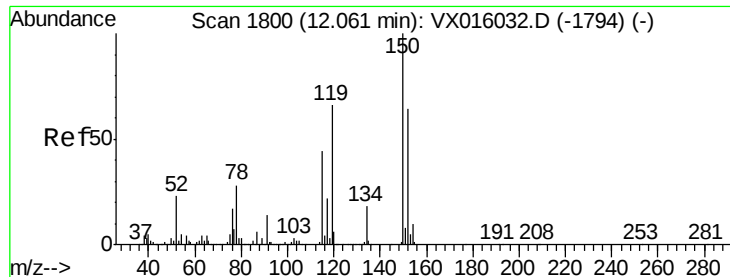


Abundance Ion 116.90 (116.60 to 117.60): VX016120.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016120.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016120.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

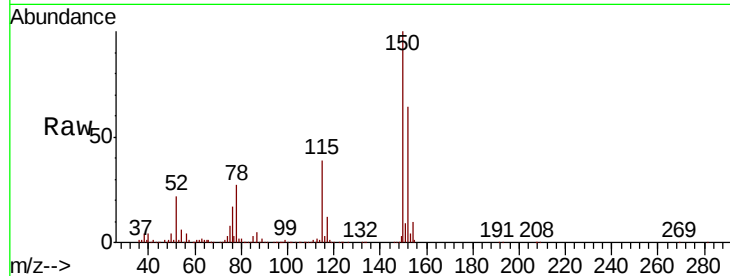
Tot Ion:152 Resp: 231382

Ion Ratio Lower Upper

152 100

115 58.2 41.3 124.1

150 153.4 0.0 352.2

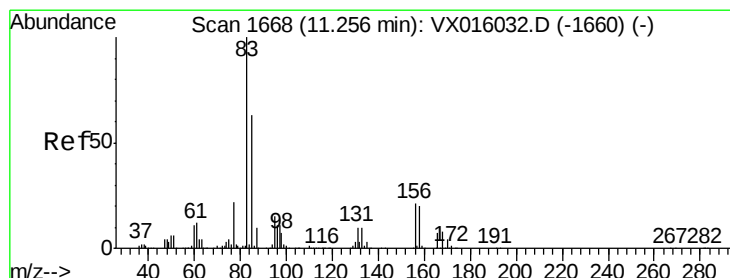
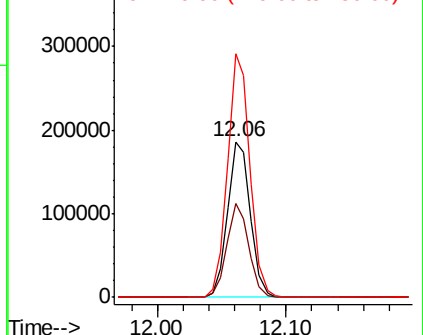
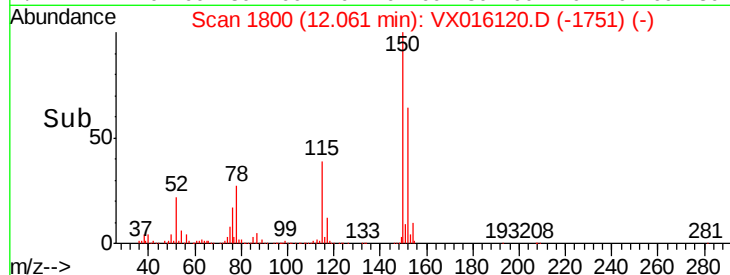


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: 2.056 ug/l

RT: 11.26 min Scan# 1668

Delta R.T. 0.00 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

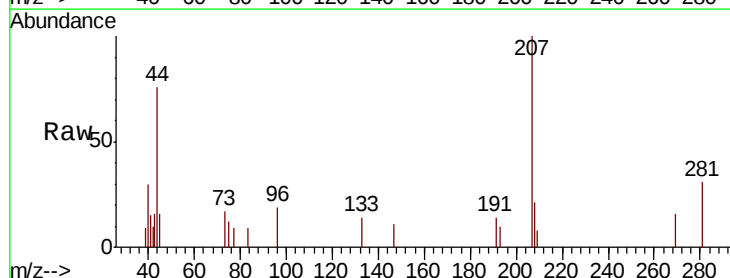
Tgt Ion: 83 Resp: 21

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

85 0.0 32.0 96.0#

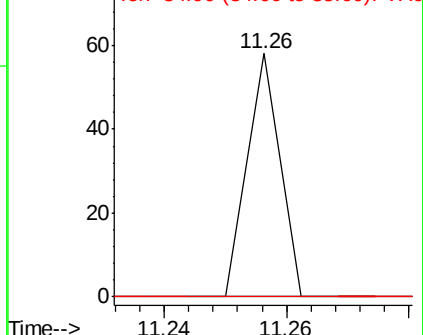
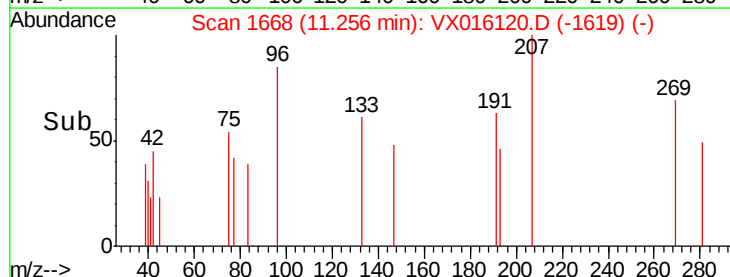


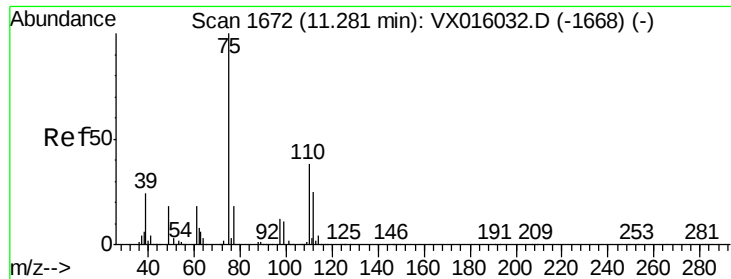
Abundance

Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.427 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

Instrument :

MSVOA\_X

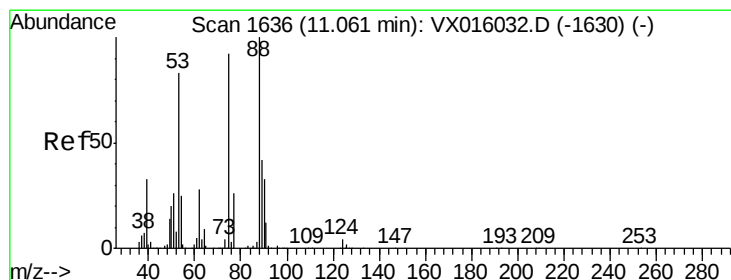
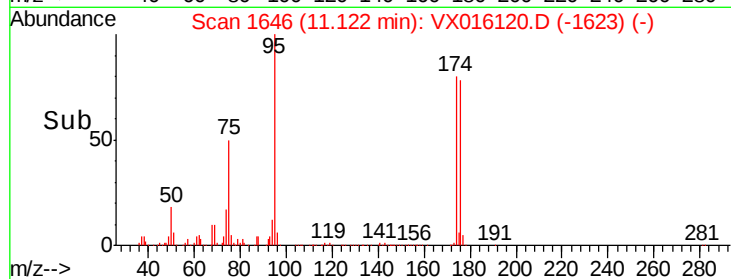
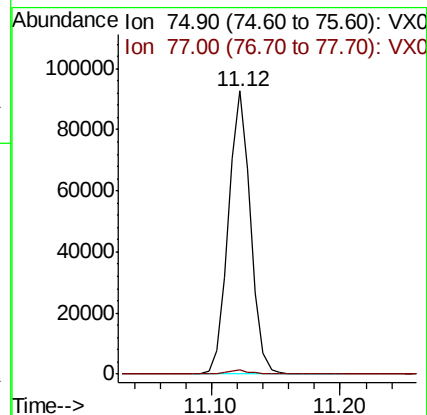
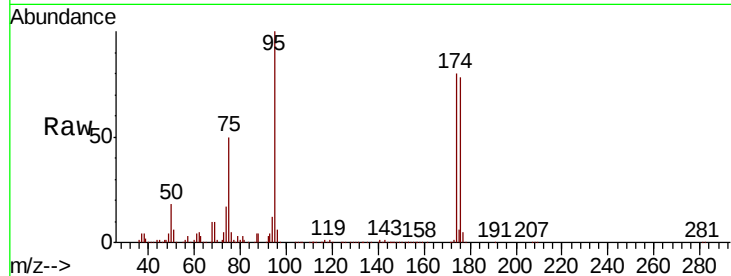
ClientSampleId :

Tot Ion: 75 Resp: 112504

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.062 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016120.D

Acq: 08 May 2020 14:56

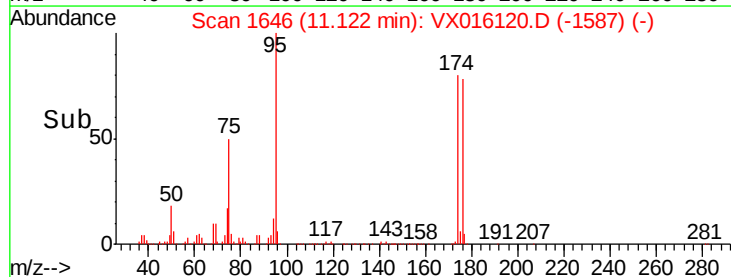
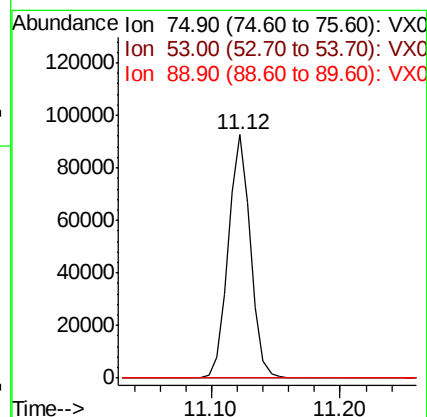
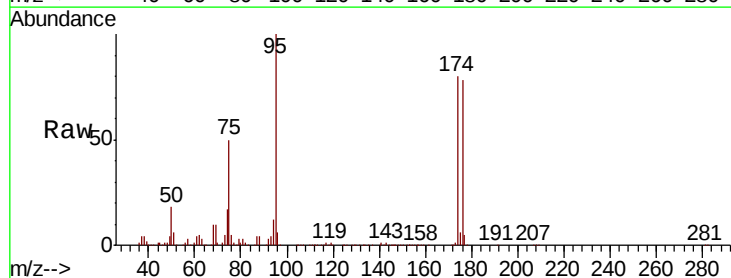
Tgt Ion: 75 Resp: 112504

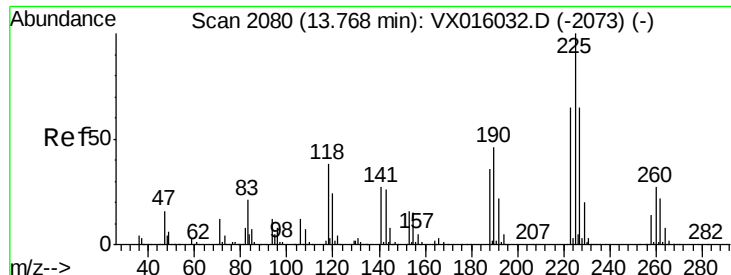
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#94  
 Hexachlorobutadiene  
 Concen: 0.558 ug/l  
 RT: 13.77 min Scan# 2080  
 Delta R.T. 0.00 min  
 Lab File: VX016120.D  
 Acq: 08 May 2020 14:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 96.4  | 32.3  | 96.9  |
| 227     | 84.3  | 31.8  | 95.4  |

