

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX061020\  
 Data File : VX016682.D  
 Acq On : 10 Jun 2020 18:02  
 Operator : JC/SP  
 Sample : L2963-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LF014MW080-200609

Quant Time: Jun 11 03:03:21 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 16:31:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 216645   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 344916   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 357550   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 183625   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 128665   | 47.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.64%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 105891   | 49.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.72%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 427027   | 51.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.32% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 174206   | 54.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.08% |          |

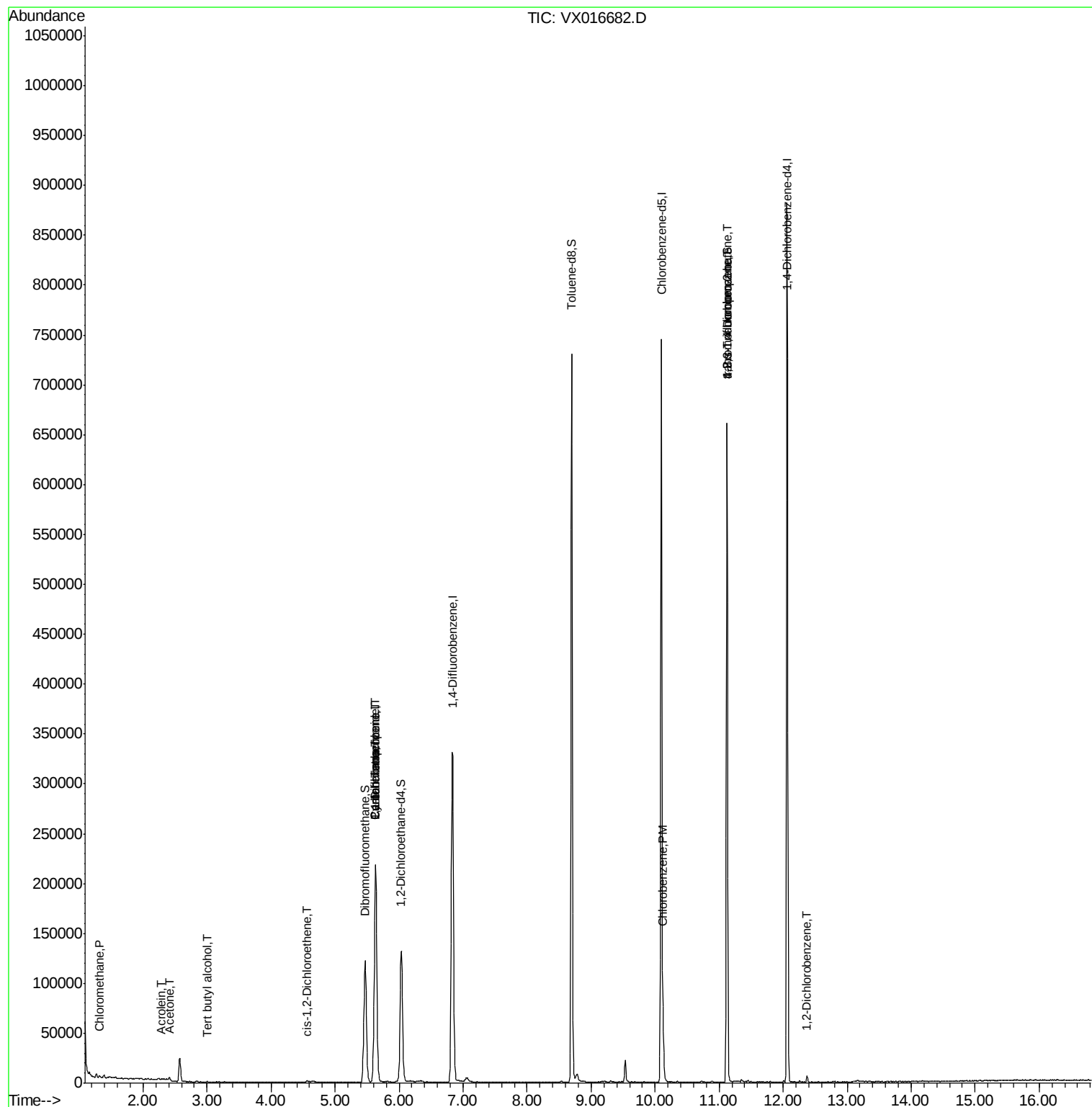
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 974      | 0.38  | ug/l   | 96     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 307      | 0.44  | ug/l # | 72     |
| 13) Acrolein                   | 2.27  | 56   | 169      | 0.58  | ug/l # | 47     |
| 16) Acetone                    | 2.42  | 43   | 2667     | 2.26  | ug/l   | 95     |
| 27) cis-1,2-Dichloroethene     | 4.57  | 96   | 1107     | 0.41  | ug/l   | 84     |
| 31) Cyclohexane                | 5.63  | 56   | 3887     | 1.04  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 14772    | 4.52  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 20959    | 6.11  | ug/l # | 17     |
| 65) Chlorobenzene              | 10.12 | 112  | 24643    | 3.38  | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 84103    | 20.84 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 84103    | 51.26 | ug/l # | 14     |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 2286     | 0.41  | ug/l   | 97     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X052720W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 16:31:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Instrument :

MSVOA\_X

ClientSampleId :

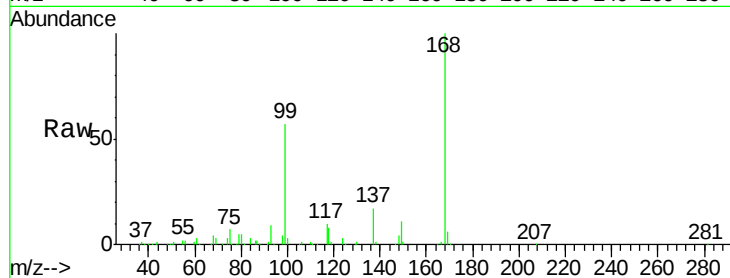
LF014MW080-200609

Tgt Ion:168 Resp: 216645

Ion Ratio Lower Upper

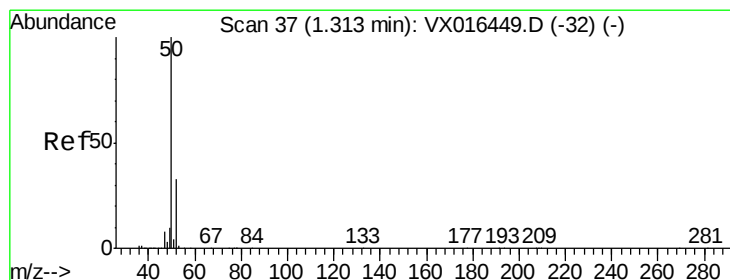
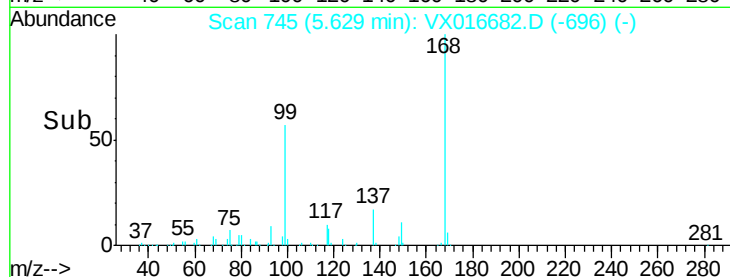
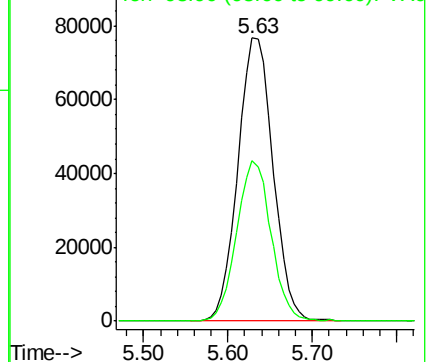
168 100

99 56.6 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.38 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016682.D

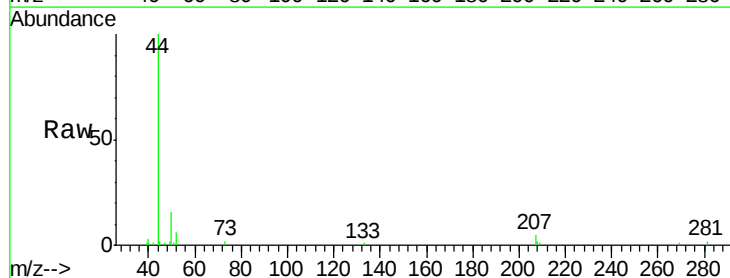
Acq: 10 Jun 2020 18:02

Tgt Ion: 50 Resp: 974

Ion Ratio Lower Upper

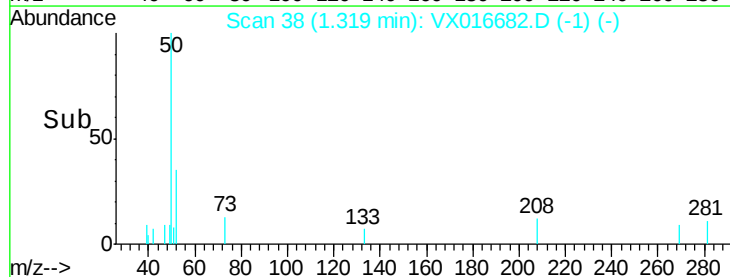
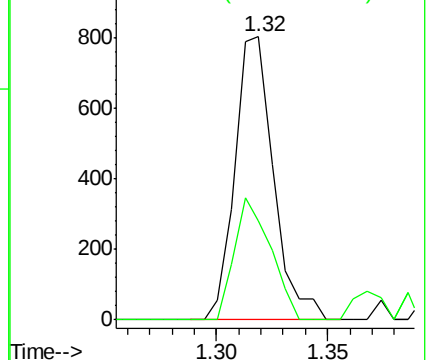
50 100

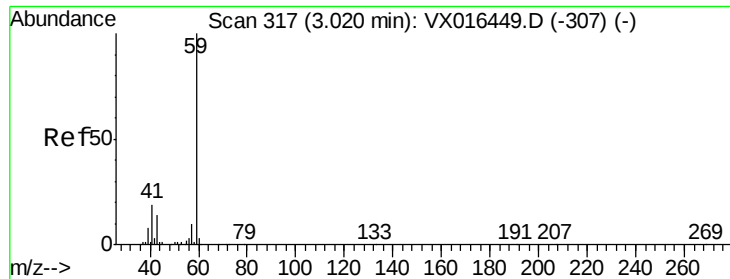
52 35.1 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

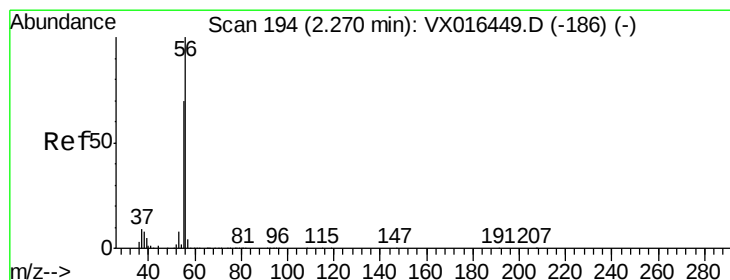
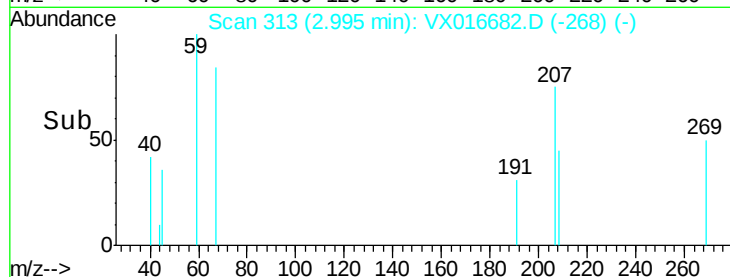
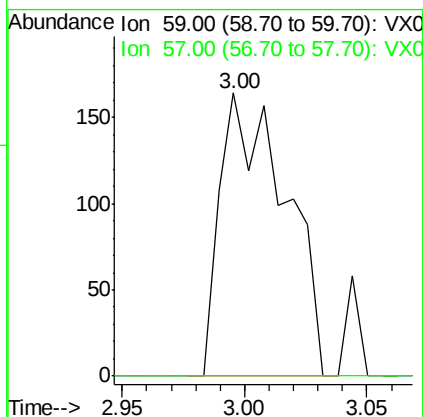
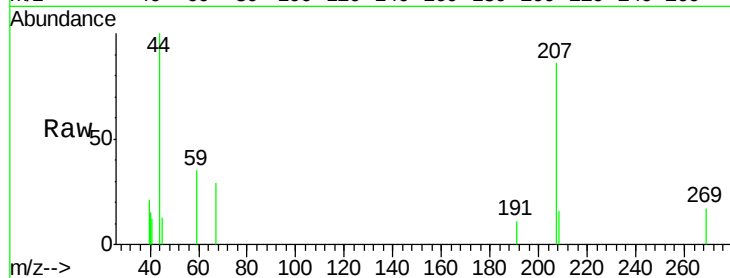




#11  
Tert butyl alcohol  
Concen: 0.44 ug/l  
RT: 3.00 min Scan# 313  
Delta R.T. -0.02 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

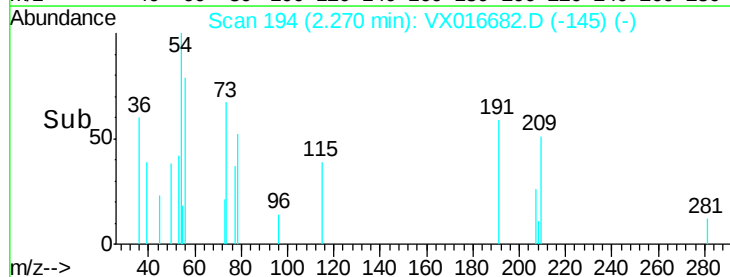
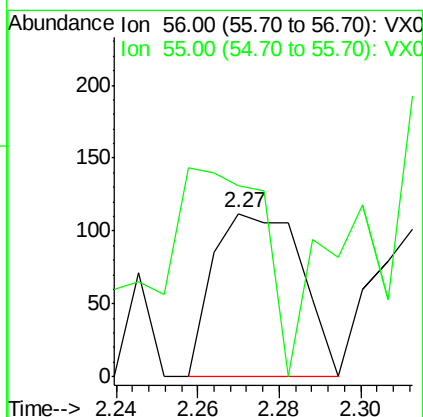
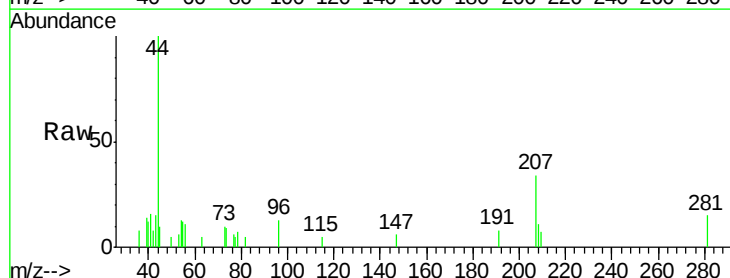
Instrument :  
MSVOA\_X  
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LF014MW080-200609

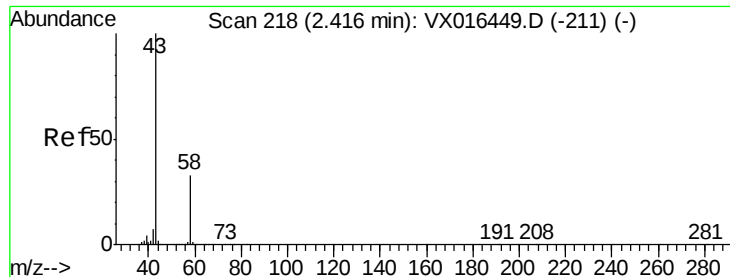
Tgt Ion: 59 Resp: 307  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#13  
Acrolein  
Concen: 0.58 ug/l  
RT: 2.27 min Scan# 194  
Delta R.T. 0.00 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

Tgt Ion: 56 Resp: 169  
Ion Ratio Lower Upper  
56 100  
55 117.2 58.3 87.5#





#16

Acetone

Concen: 2.26 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Instrument :

MSVOA\_X

ClientSampleId :

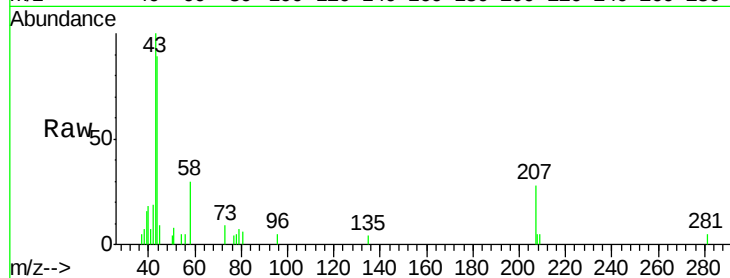
LF014MW080-200609

Tgt Ion: 43 Resp: 2667

Ion Ratio Lower Upper

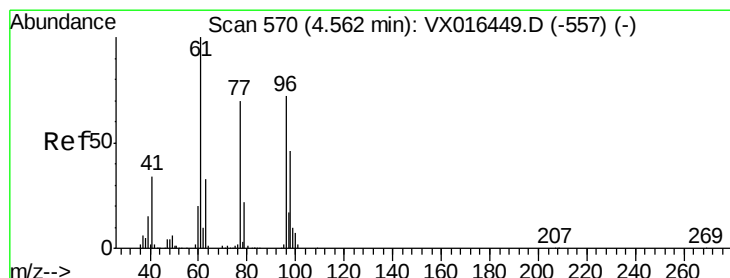
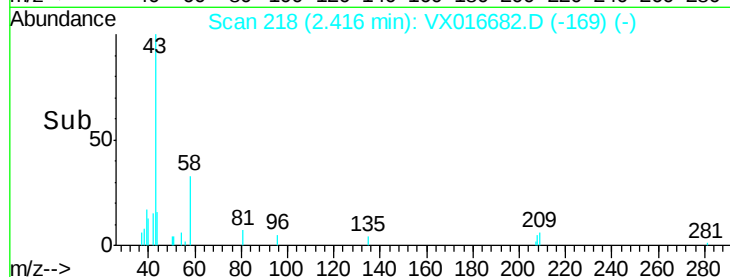
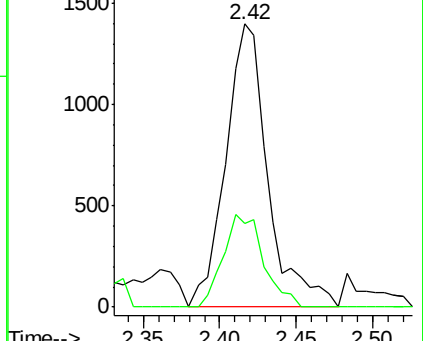
43 100

58 29.8 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.41 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.01 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

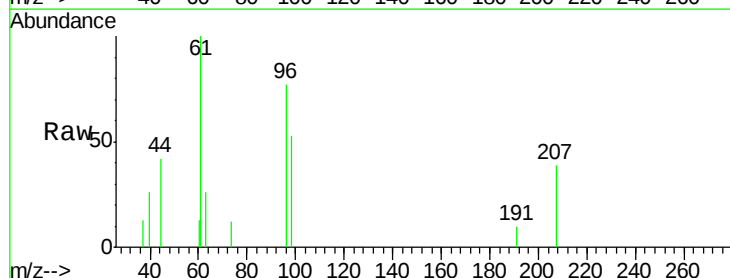
Tgt Ion: 96 Resp: 1107

Ion Ratio Lower Upper

96 100

61 116.8 0.0 284.6

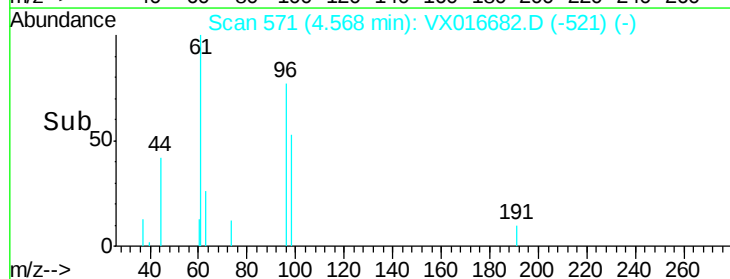
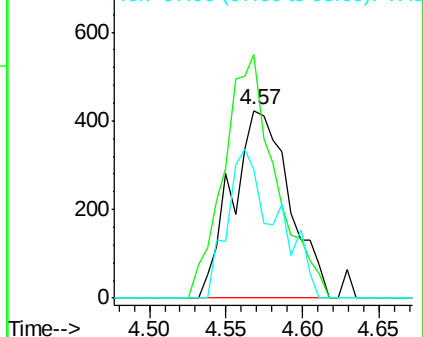
98 67.5 0.0 127.2

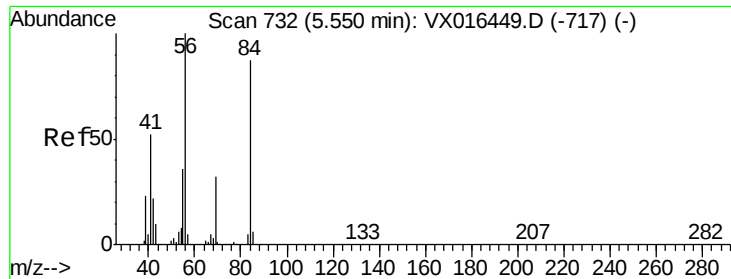


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

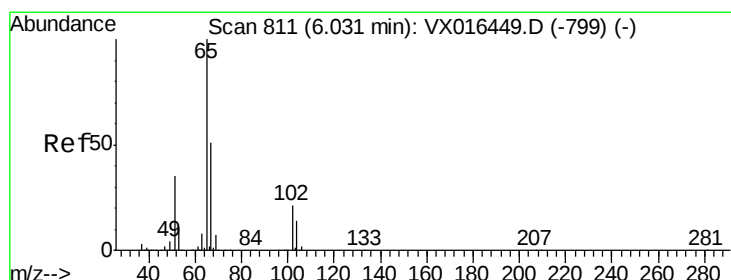
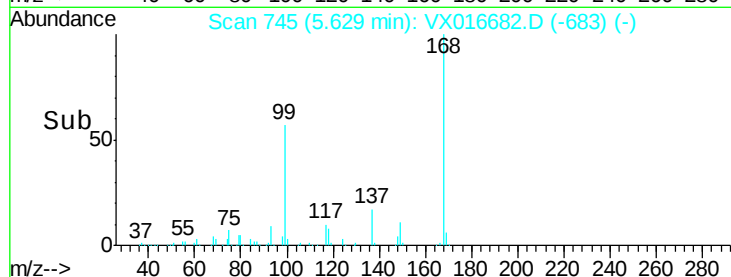
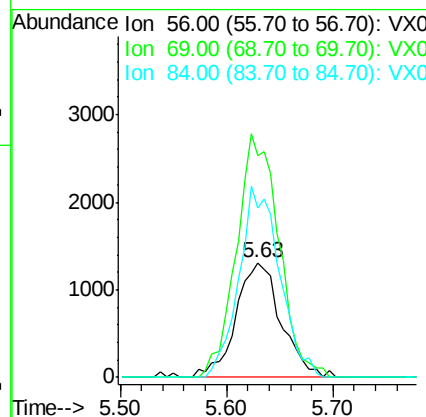
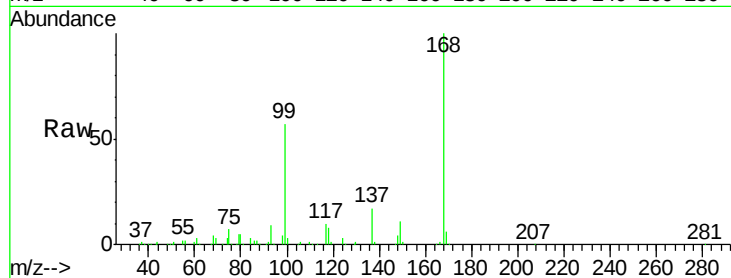




#31  
Cyclohexane  
Concen: 1.04 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

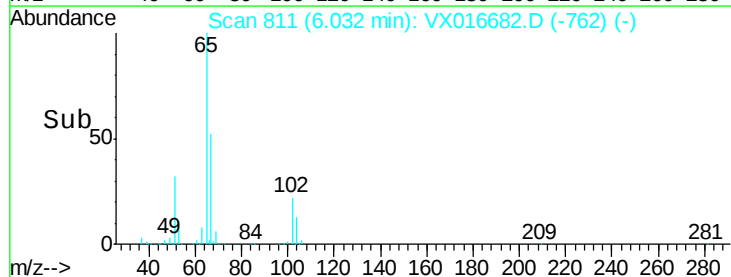
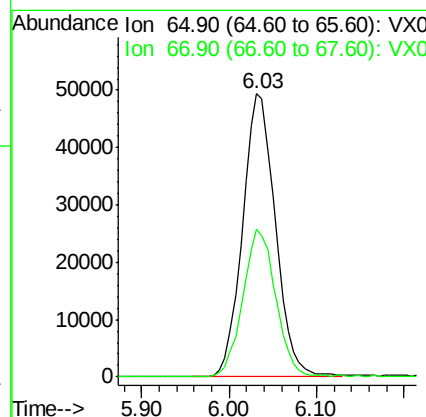
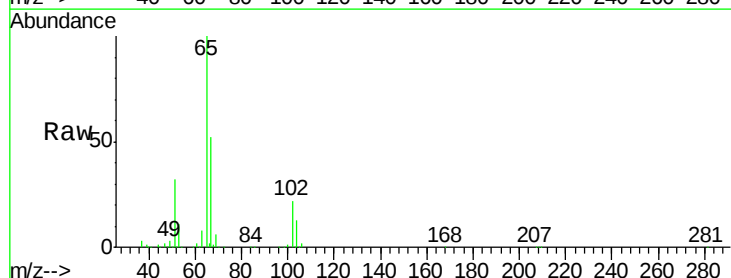
Instrument :  
MSVOA\_X  
ClientSampleId :  
LF014MW080-200609

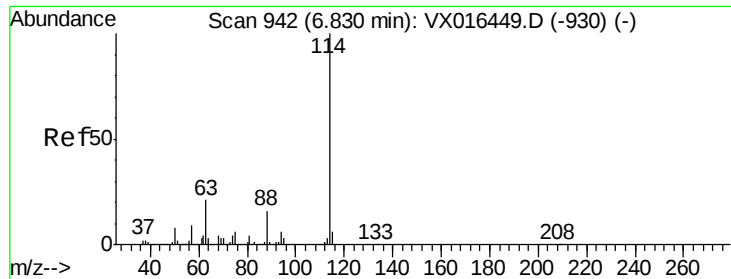
Tgt Ion: 56 Resp: 3887  
Ion Ratio Lower Upper  
56 100  
69 192.8 25.7 38.5#  
84 147.7 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 47.82 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. 0.00 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

Tgt Ion: 65 Resp: 128665  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Instrument :

MSVOA\_X

ClientSampleId :

LF014MW080-200609

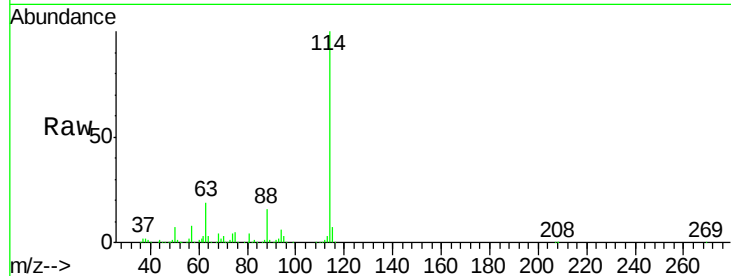
Tgt Ion:114 Resp: 344916

Ion Ratio Lower Upper

114 100

63 18.8 0.0 42.6

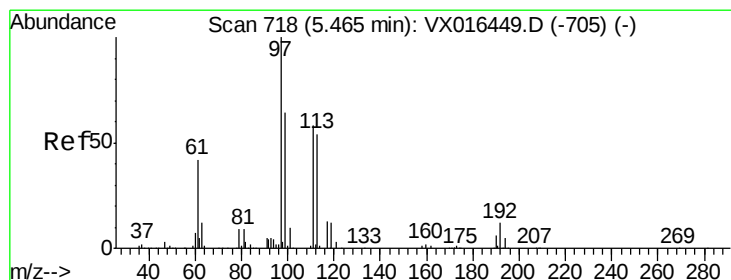
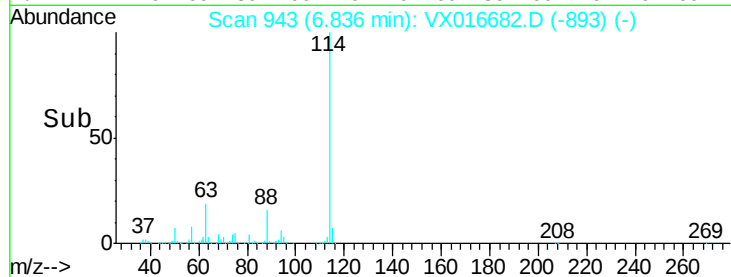
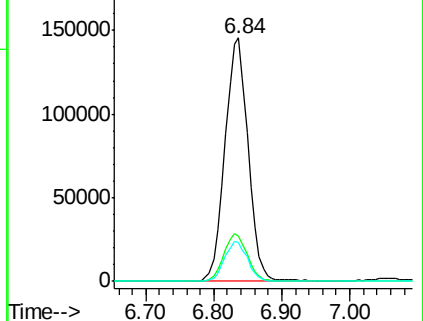
88 15.9 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.86 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

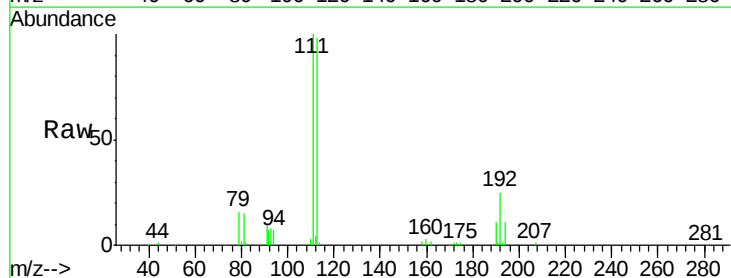
Tgt Ion:113 Resp: 105891

Ion Ratio Lower Upper

113 100

111 102.5 83.0 124.6

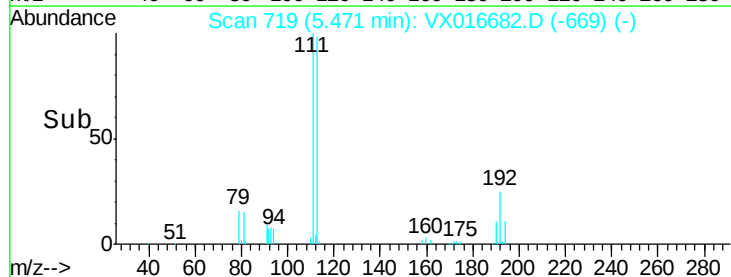
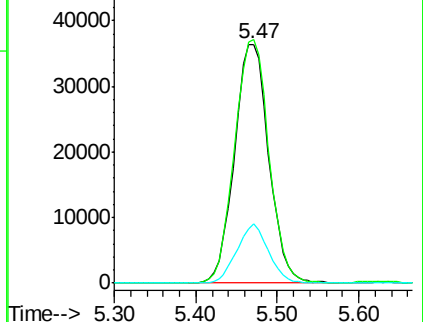
192 22.9 17.7 26.5

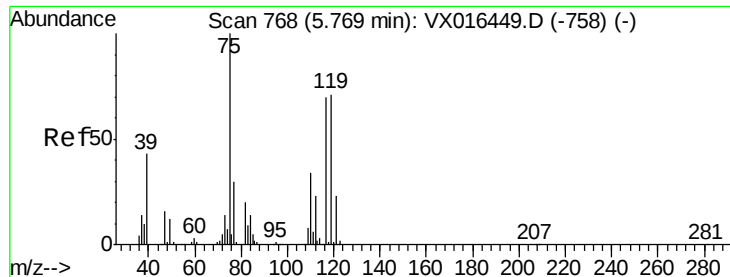


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.52 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Instrument :

MSVOA\_X

ClientSampleId :

LF014MW080-200609

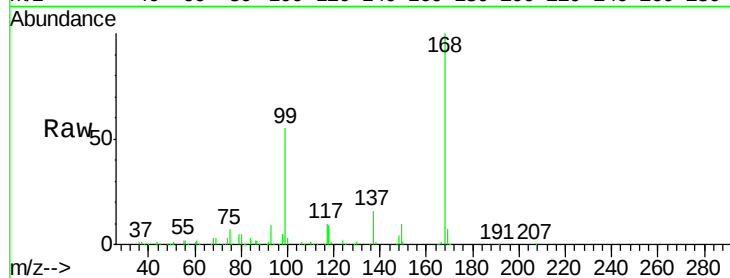
Tgt Ion: 75 Resp: 14772

Ion Ratio Lower Upper

75 100

110 10.4 17.4 52.3#

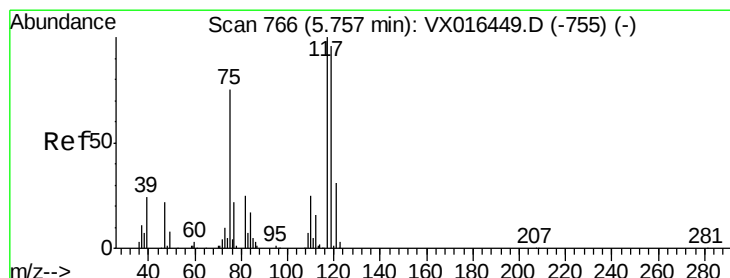
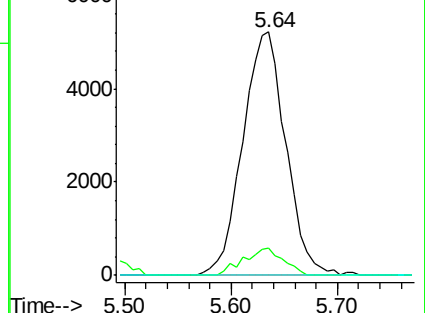
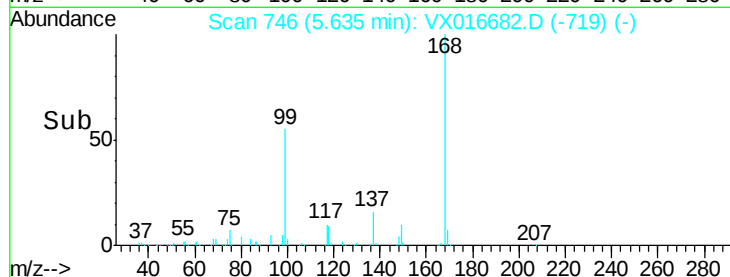
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VX016682.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016682.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016682.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 6.11 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

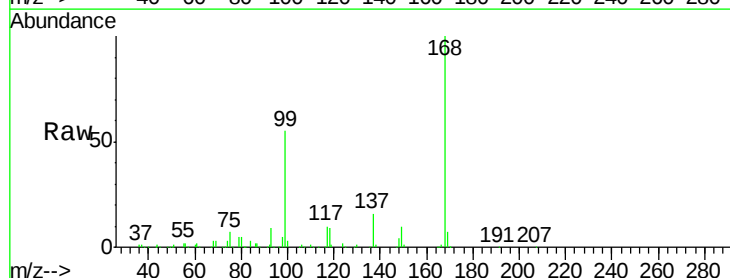
Tgt Ion: 117 Resp: 20959

Ion Ratio Lower Upper

117 100

119 6.7 76.3 114.5#

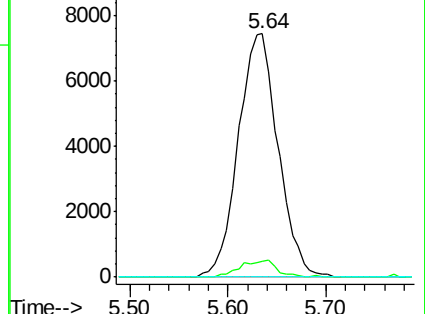
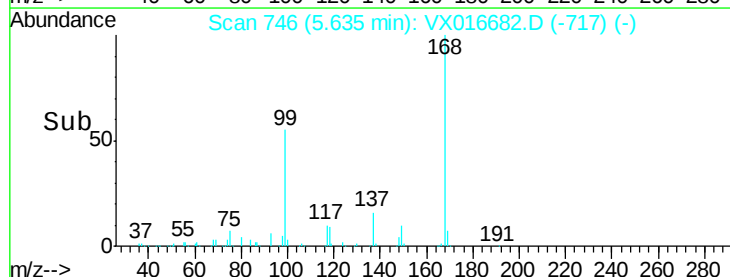
121 0.0 24.6 37.0#

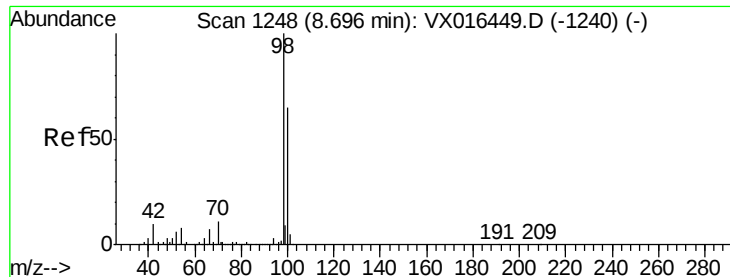


Abundance Ion 116.80 (116.50 to 117.50): VX016682.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX016682.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016682.D (-717) (-)

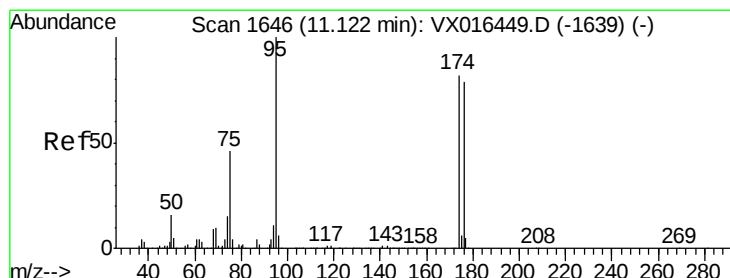
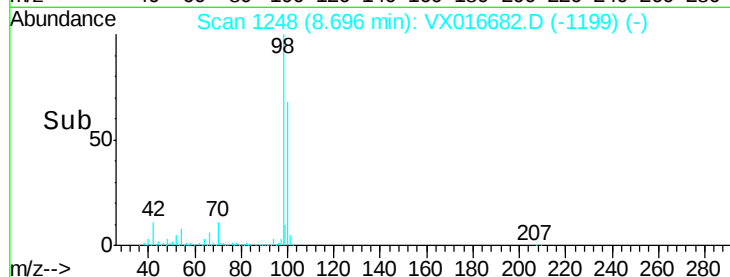
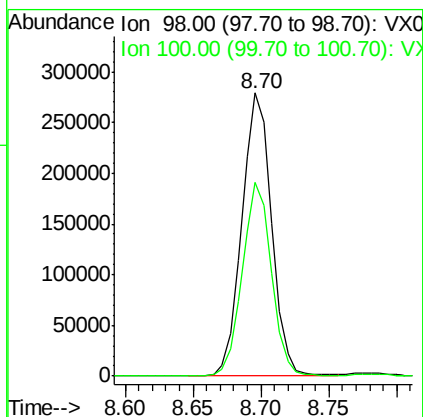
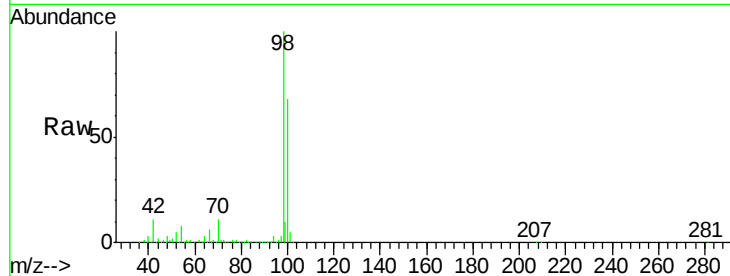




#50  
Toluene-d8  
Concen: 51.66 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. 0.00 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

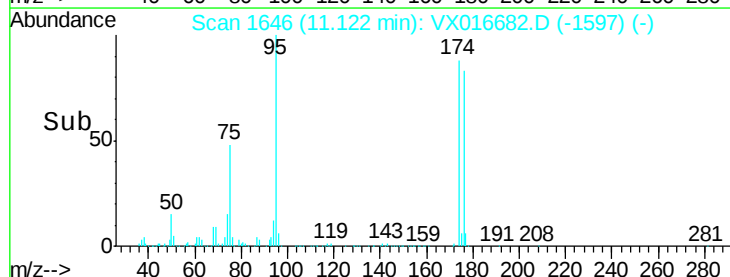
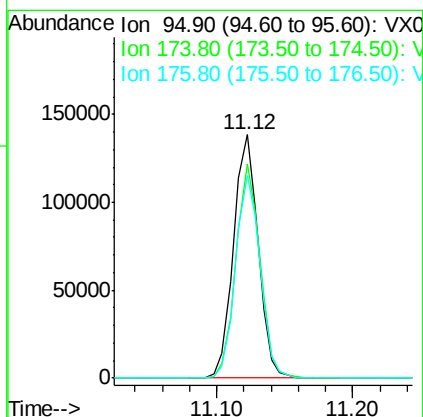
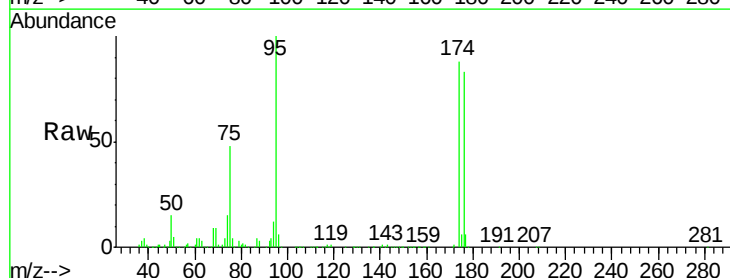
Instrument :  
MSVOA\_X  
ClientSampleId :  
LF014MW080-200609

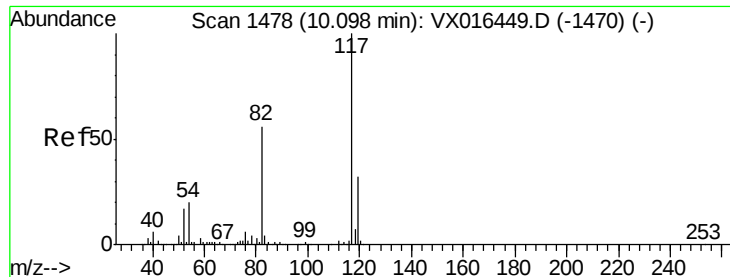
Tgt Ion: 98 Resp: 427027  
Ion Ratio Lower Upper  
98 100  
100 66.7 53.8 80.6



#62  
4-Bromofluorobenzene  
Concen: 54.54 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.00 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

Tgt Ion: 95 Resp: 174206  
Ion Ratio Lower Upper  
95 100  
174 86.5 0.0 163.0  
176 83.3 0.0 156.8

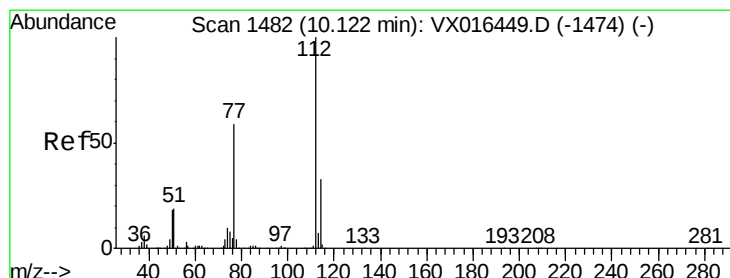
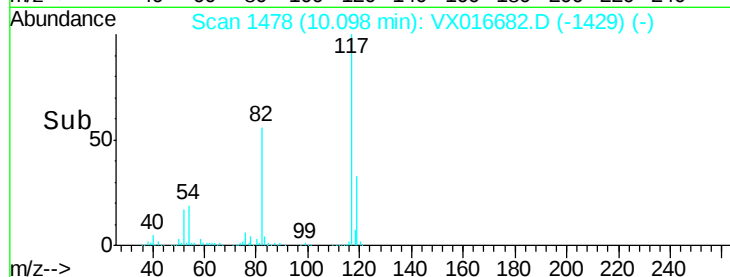
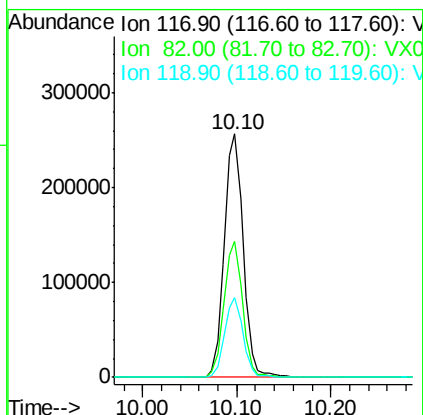
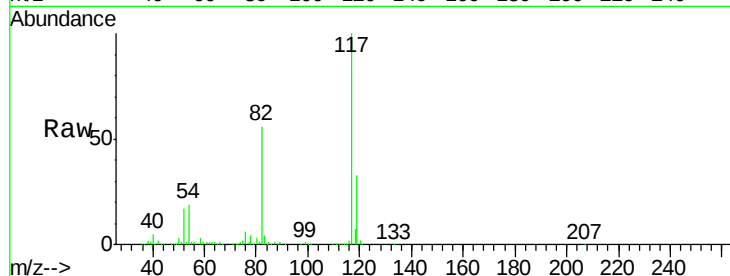




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. 0.00 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

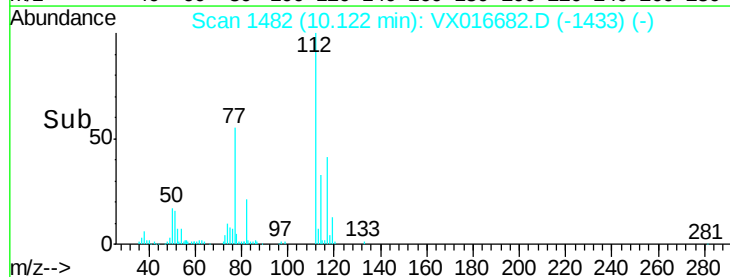
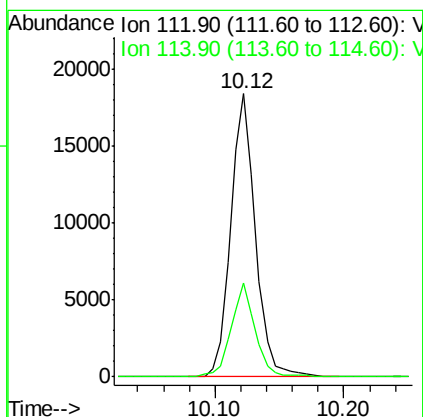
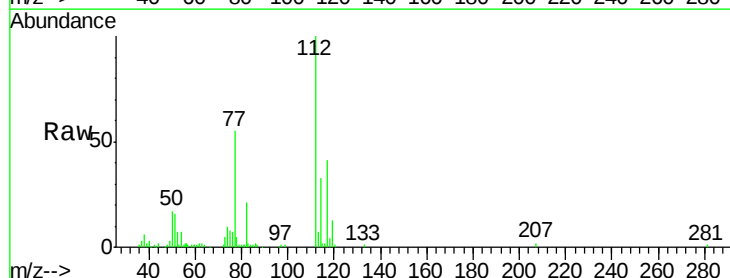
Instrument :  
MSVOA\_X  
ClientSampleId :  
LF014MW080-200609

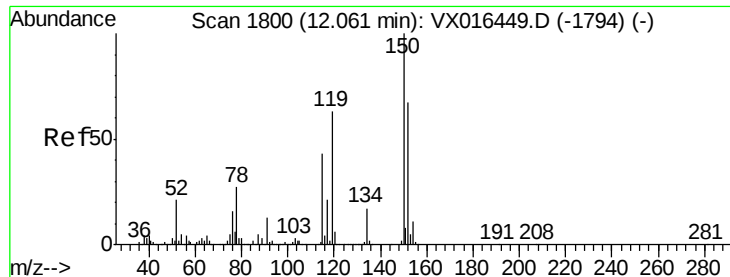
Tgt Ion:117 Resp: 357550  
Ion Ratio Lower Upper  
117 100  
82 56.0 45.0 67.6  
119 32.6 25.8 38.8



#65  
Chlorobenzene  
Concen: 3.38 ug/l  
RT: 10.12 min Scan# 1482  
Delta R.T. 0.00 min  
Lab File: VX016682.D  
Acq: 10 Jun 2020 18:02

Tgt Ion:112 Resp: 24643  
Ion Ratio Lower Upper  
112 100  
114 33.1 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Instrument :

MSVOA\_X

ClientSampleId :

LF014MW080-200609

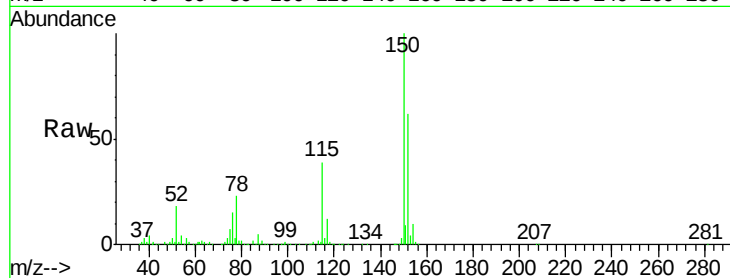
Tgt Ion: 152 Resp: 183625

Ion Ratio Lower Upper

152 100

115 58.3 39.9 119.6

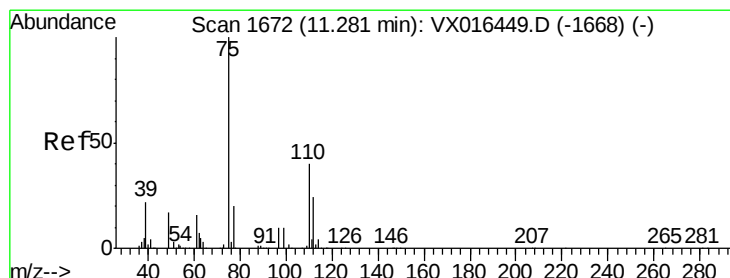
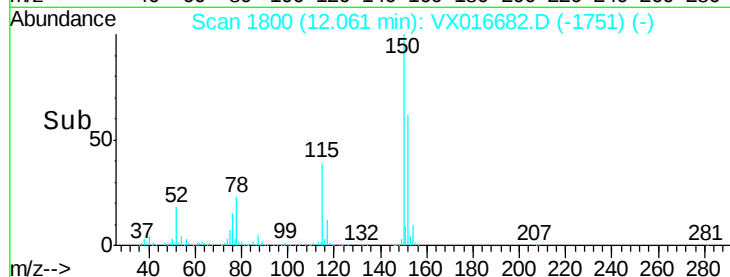
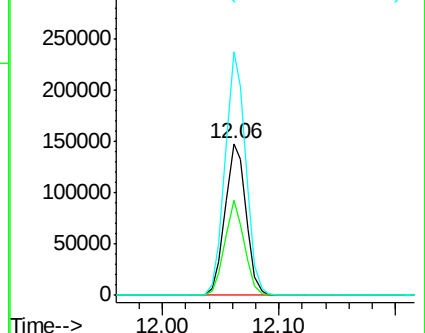
150 157.5 0.0 341.0



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



#76

1,2,3-Trichloropropane

Concen: 20.84 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016682.D

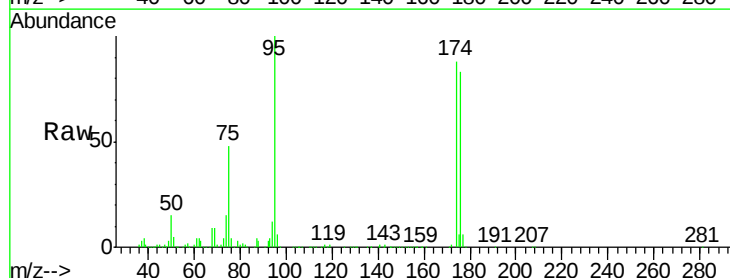
Acq: 10 Jun 2020 18:02

Tgt Ion: 75 Resp: 84103

Ion Ratio Lower Upper

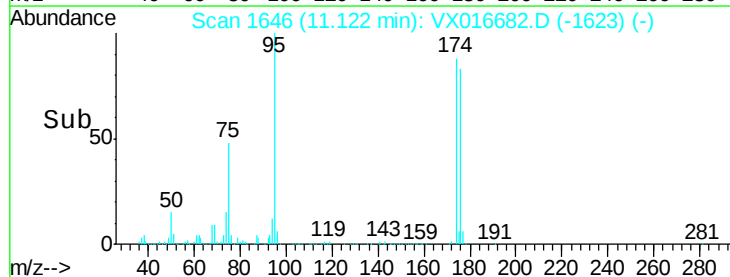
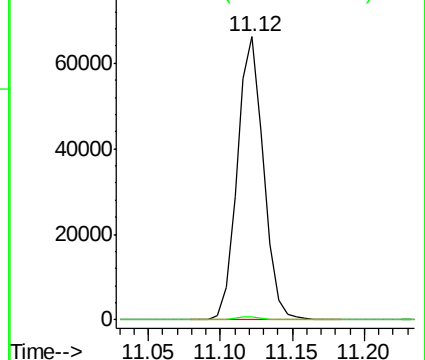
75 100

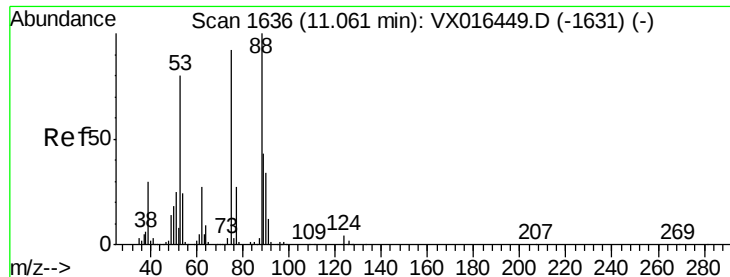
77 1.2 21.3 63.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.26 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Instrument :

MSVOA\_X

ClientSampleId :

LF014MW080-200609

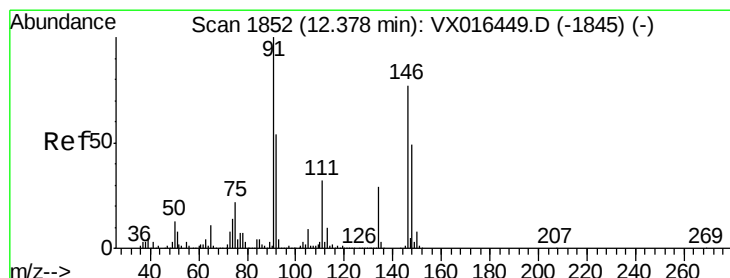
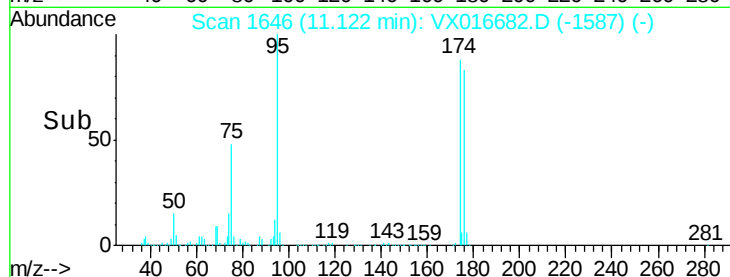
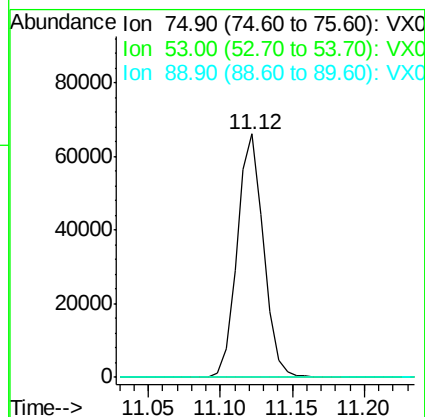
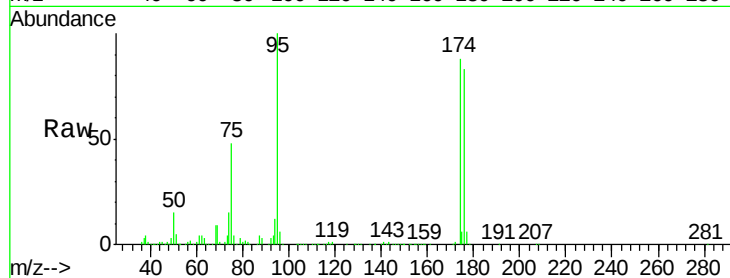
Tgt Ion: 75 Resp: 84103

Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 36.6 55.0#



#91

1,2-Dichlorobenzene

Concen: 0.41 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016682.D

Acq: 10 Jun 2020 18:02

Tgt Ion: 146 Resp: 2286

Ion Ratio Lower Upper

146 100

111 38.6 21.4 64.3

148 63.8 31.9 95.7

