

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051120\  
 Data File : VX016148.D  
 Acq On : 11 May 2020 14:56  
 Operator : JC/SP  
 Sample : L2552-11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS052MW274-200507

Quant Time: May 11 18:34:22 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      | 5.63  | 168  | 277937   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 461596   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 453587   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 231237   | 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   | 170142   | 46.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.04%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 136949   | 46.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.66%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 569466   | 50.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.08% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 229379   | 53.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.04% |          |

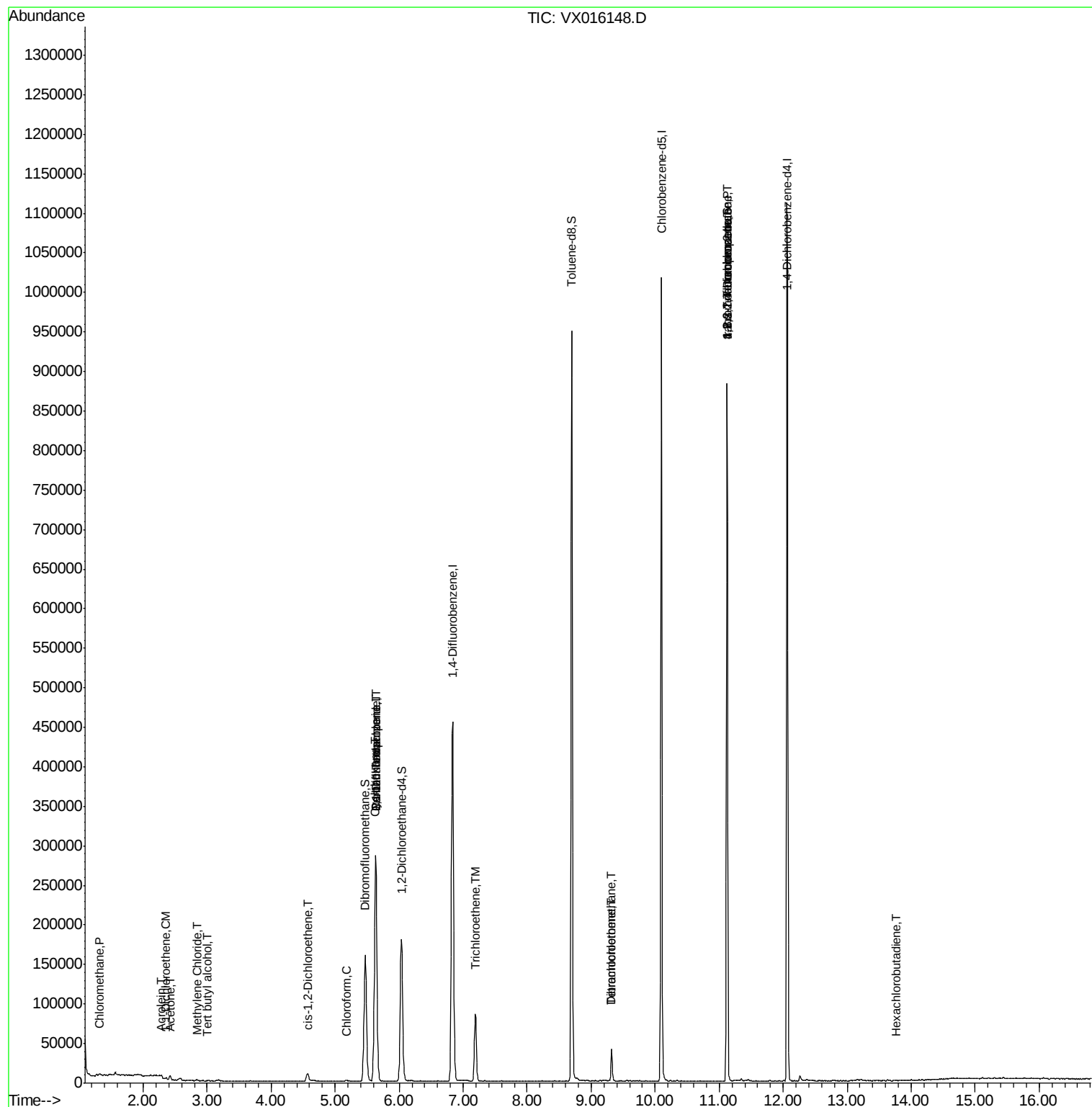
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1352     | 0.396  | ug/l # | 86     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 304      | 0.329  | ug/l # | 94     |
| 12) 1,1-Dichloroethene         | 2.36  | 96   | 976      | 0.338  | ug/l   | 83     |
| 13) Acrolein                   | 2.27  | 56   | 294      | 0.508  | ug/l # | 48     |
| 16) Acetone                    | 2.42  | 43   | 4846     | 2.970  | ug/l   | 98     |
| 20) Methylene Chloride         | 2.84  | 84   | 721      | 0.214  | ug/l   | 94     |
| 27) cis-1,2-Dichloroethene     | 4.57  | 96   | 6795     | 1.930  | ug/l   | 77     |
| 30) Chloroform                 | 5.18  | 83   | 1268     | 0.228  | ug/l # | 79     |
| 31) Cyclohexane                | 5.62  | 56   | 5520     | 1.086  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 20854    | 4.590  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 26828    | 5.809  | ug/l # | 15     |
| 44) Trichloroethene            | 7.19  | 130  | 32767    | 6.938  | ug/l   | 100    |
| 60) Dibromochloromethane       | 9.32  | 129  | 7025     | 1.956  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.32  | 164  | 7708     | 1.384  | ug/l   | 96     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.12 | 83   | 193      | 2.110  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 112966   | 21.528 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 112966   | 51.304 | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 42       | 0.541  | ug/l # | 1      |

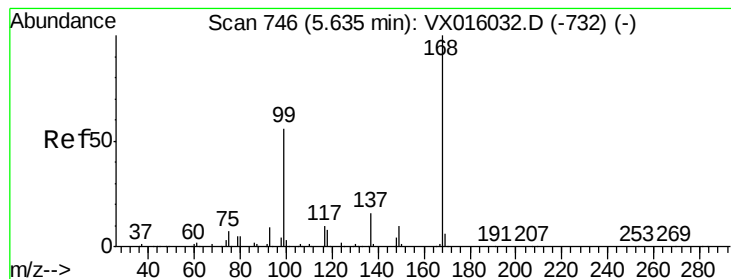
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051120\  
Data File : VX016148.D  
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Sample : L2552-11  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS052MW274-200507

Quant Time: May 11 18:34:22 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

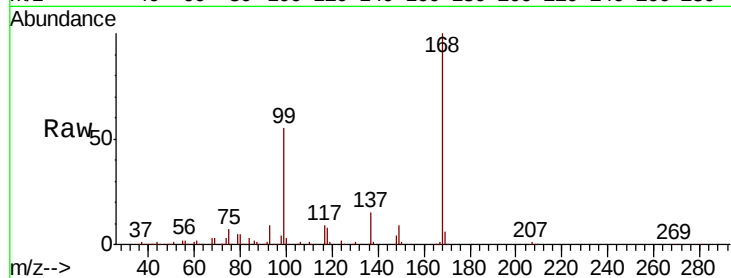
SS052MW274-200507

Tot Ion:168 Resp: 277937

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

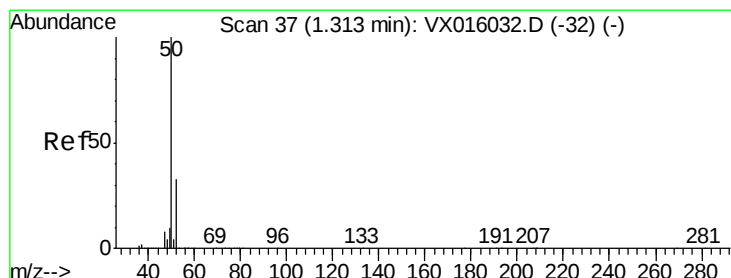
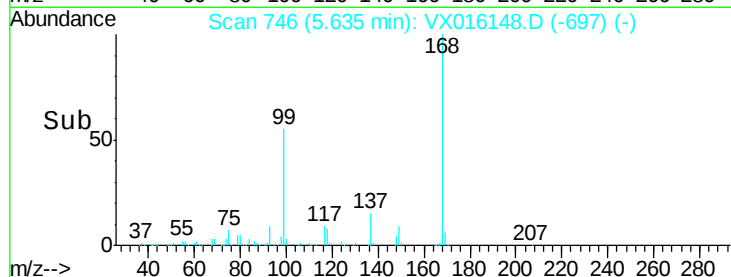
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.396 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016148.D

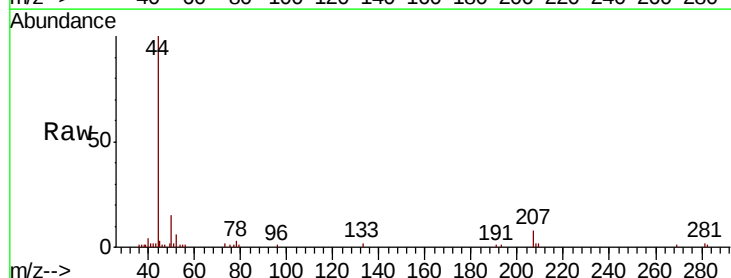
Acq: 11 May 2020 14:56

Tgt Ion: 50 Resp: 1352

Ion Ratio Lower Upper

50 100

52 40.4 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1200

1000

800

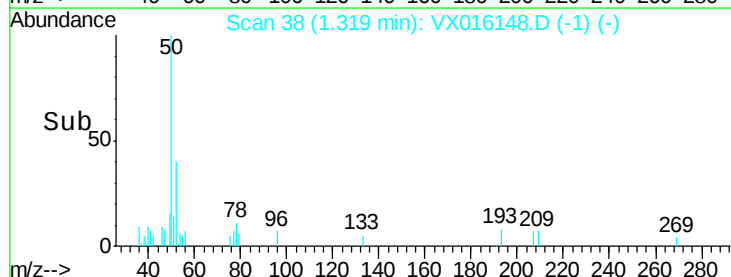
600

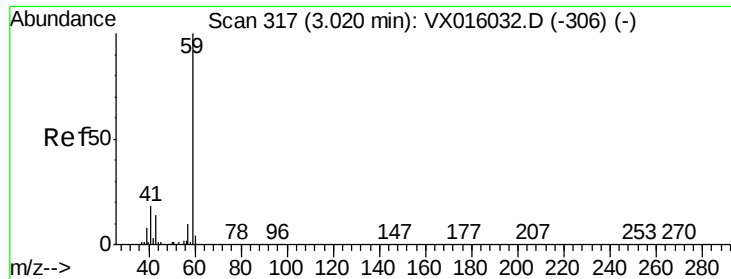
400

200

0

Time-->



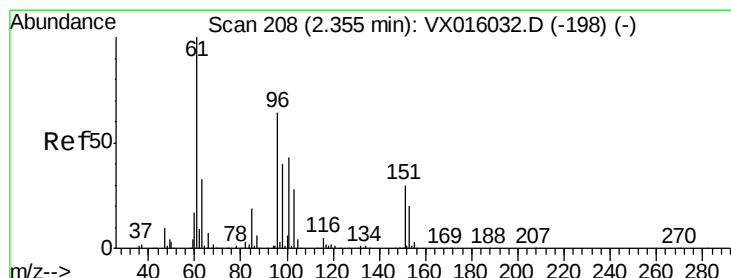
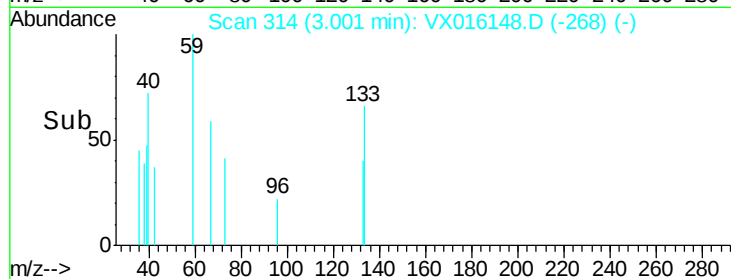
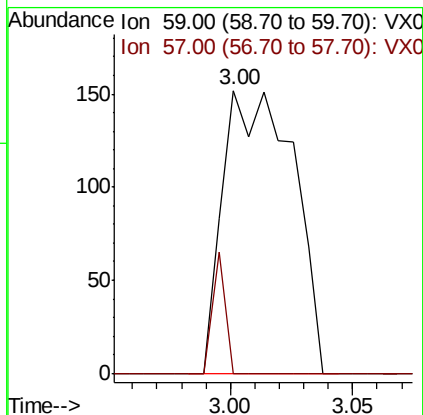
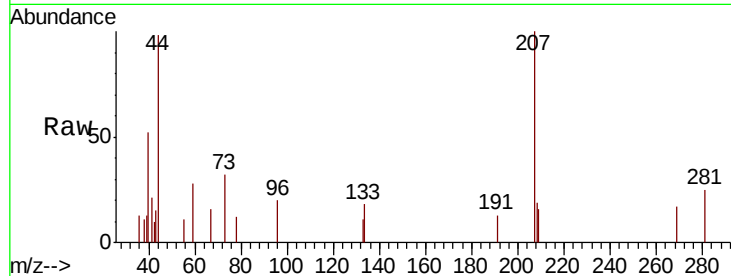


#11

Tert butyl alcohol  
Concen: 0.329 ug/l  
RT: 3.00 min Scan# 314  
Delta R.T. -0.02 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS052MW274-200507

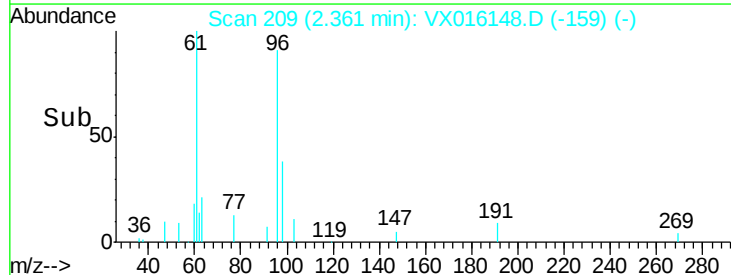
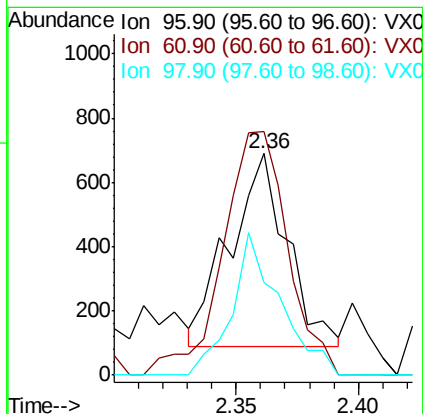
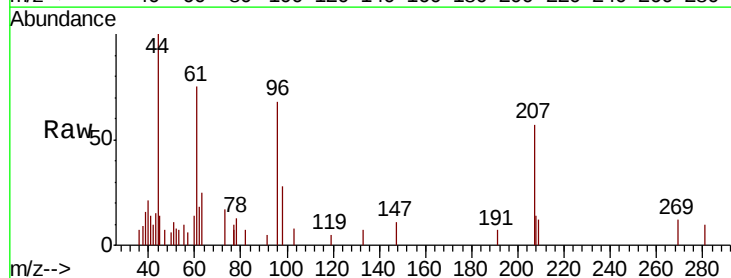
Tot Ion: 59 Resp: 304  
Ion Ratio Lower Upper  
59 100  
57 7.9 8.2 12.4#

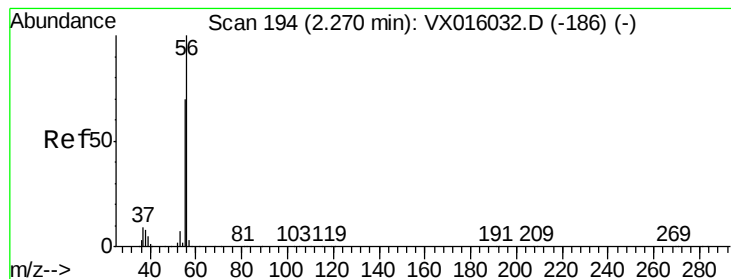


#12

1,1-Dichloroethene  
Concen: 0.338 ug/l  
RT: 2.36 min Scan# 209  
Delta R.T. 0.01 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

Tgt Ion: 96 Resp: 976  
Ion Ratio Lower Upper  
96 100  
61 132.5 124.8 187.2  
98 50.2 49.7 74.5





#13

Acrolein

Concen: 0.508 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

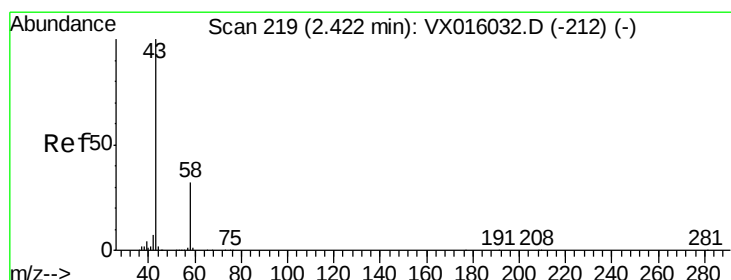
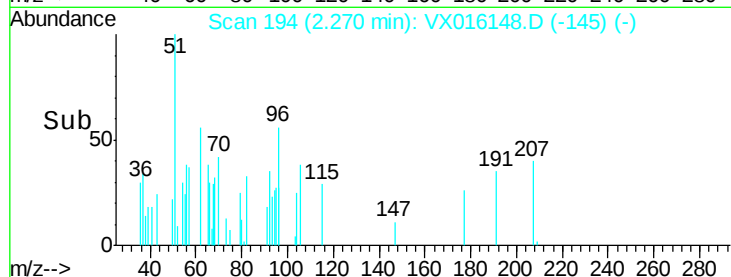
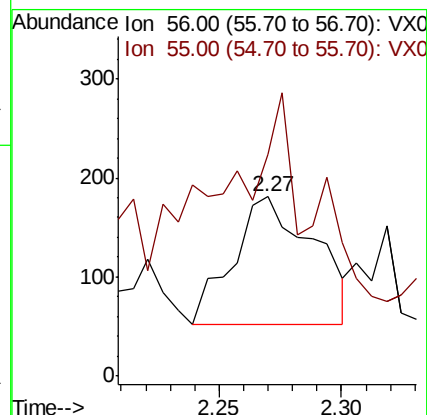
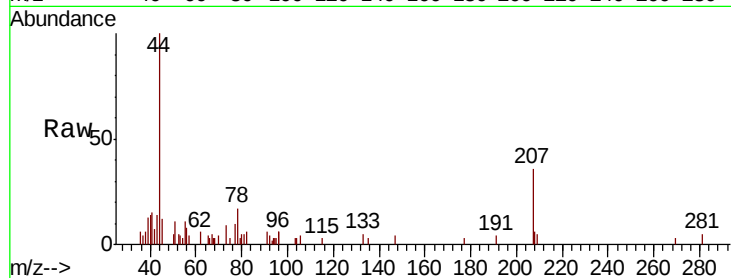
SS052MW274-200507

Tot Ion: 56 Resp: 294

Ion Ratio Lower Upper

56 100

55 113.3 56.5 84.7#



#16

Acetone

Concen: 2.970 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016148.D

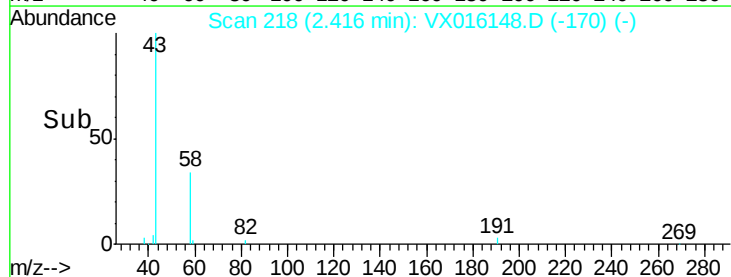
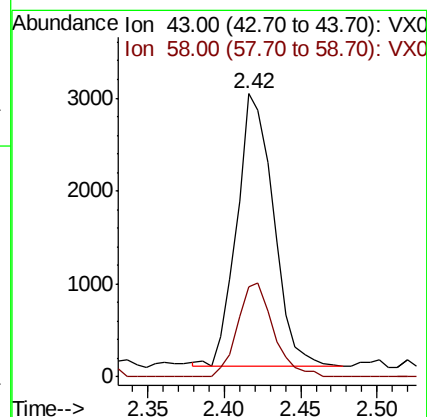
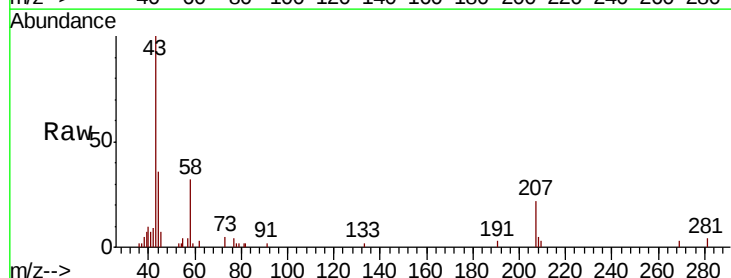
Acq: 11 May 2020 14:56

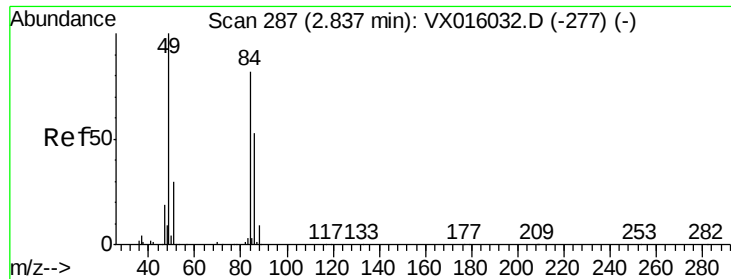
Tgt Ion: 43 Resp: 4846

Ion Ratio Lower Upper

43 100

58 33.0 25.4 38.0

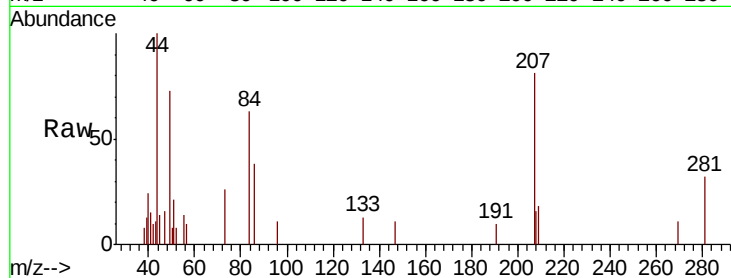




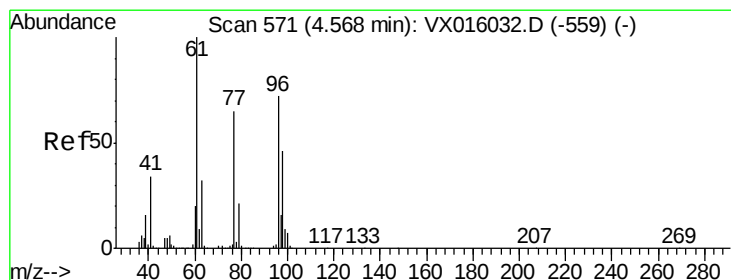
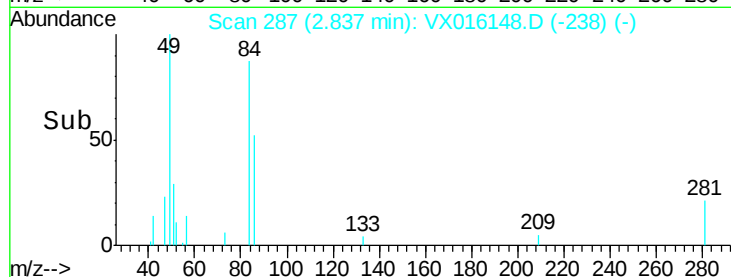
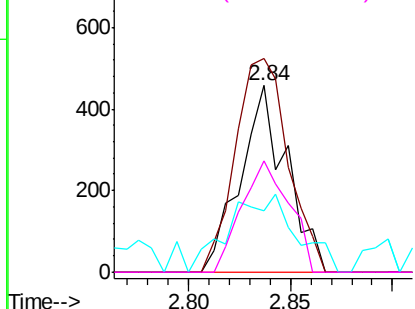
#20  
Methylene Chloride  
Concen: 0.214 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. -0.00 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
SS052MW274-200507

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 721   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.7 | 97.3  | 145.9 |
| 51       | 33.3  | 29.3  | 43.9  |
| 86       | 59.7  | 51.3  | 76.9  |

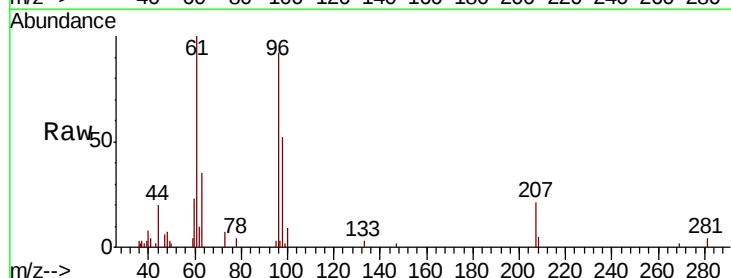


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

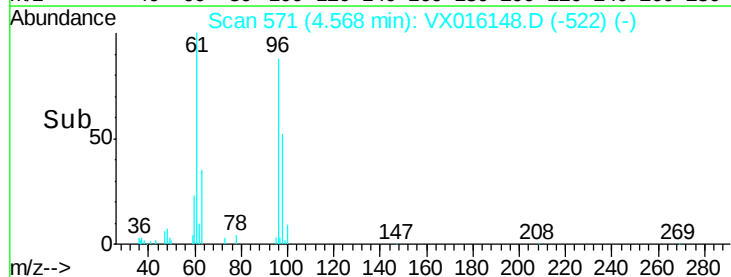
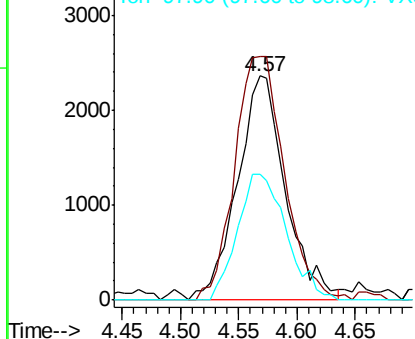


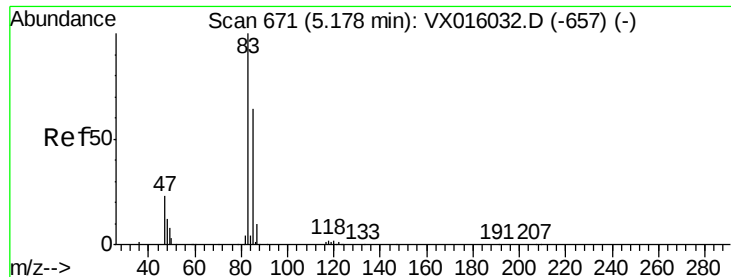
#27  
cis-1,2-Dichloroethene  
Concen: 1.930 ug/l  
RT: 4.57 min Scan# 571  
Delta R.T. -0.00 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 6795  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 112.2 | 0.0   | 296.2 |
| 98       | 57.0  | 0.0   | 129.4 |



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

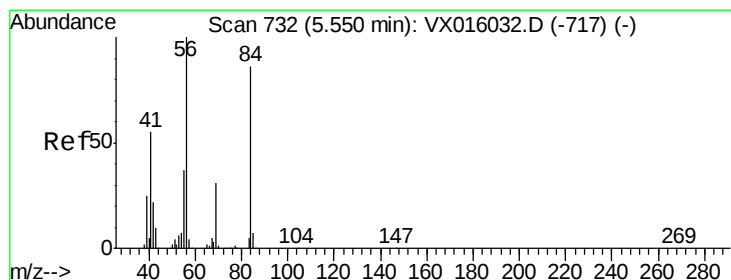
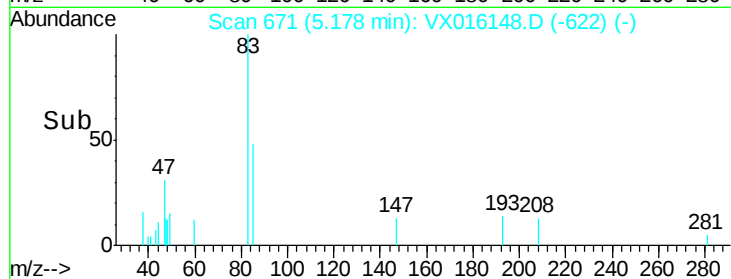
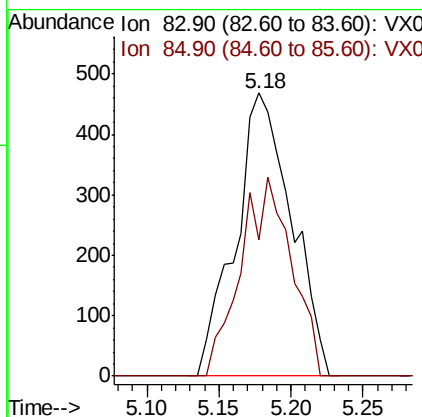
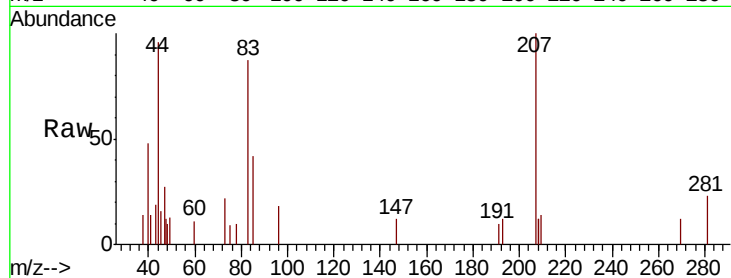




#30  
Chloroform  
Concen: 0.228 ug/l  
RT: 5.18 min Scan# 671  
Delta R.T. -0.00 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

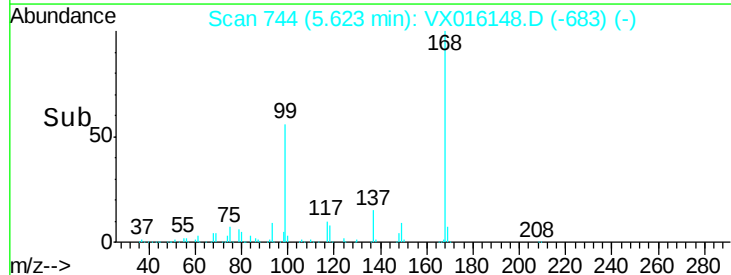
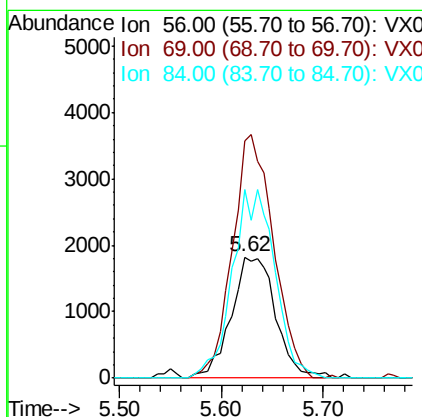
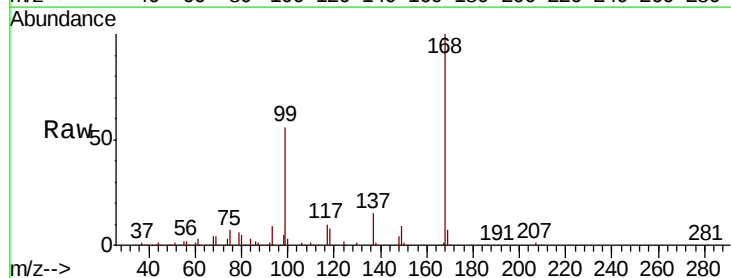
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SS052MW274-200507

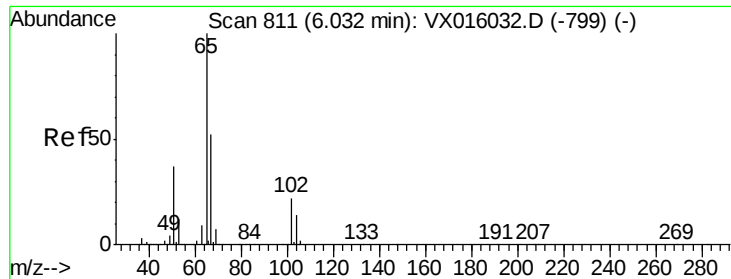
Tot Ion: 83 Resp: 1268  
Ion Ratio Lower Upper  
83 100  
85 48.3 51.6 77.4#



#31  
Cyclohexane  
Concen: 1.086 ug/l  
RT: 5.62 min Scan# 744  
Delta R.T. 0.07 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

Tgt Ion: 56 Resp: 5520  
Ion Ratio Lower Upper  
56 100  
69 195.6 25.0 37.6#  
84 155.6 69.0 103.6#

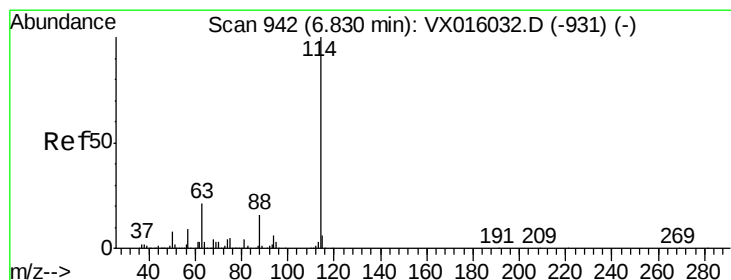
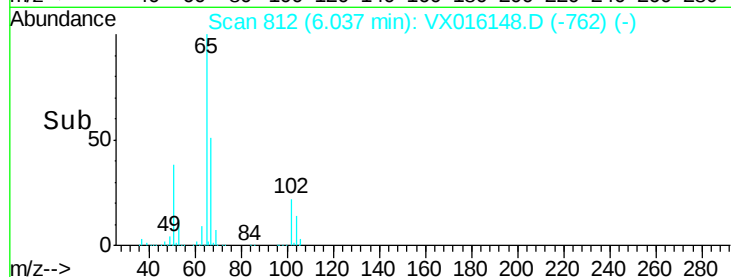
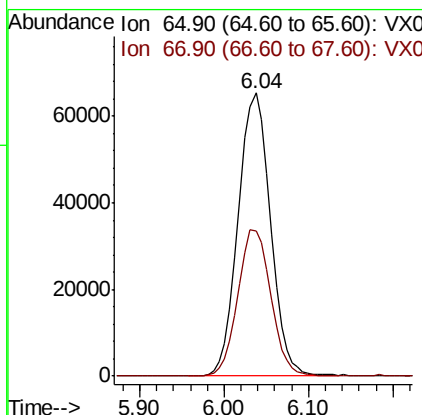
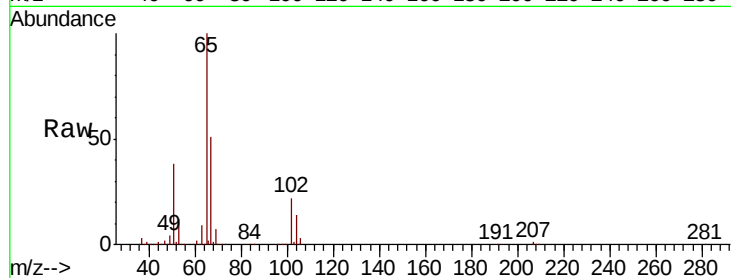




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.520 ug/l  
 RT: 6.04 min Scan# 812  
 Delta R.T. 0.01 min  
 Lab File: VX016148.D  
 Acq: 11 May 2020 14:56

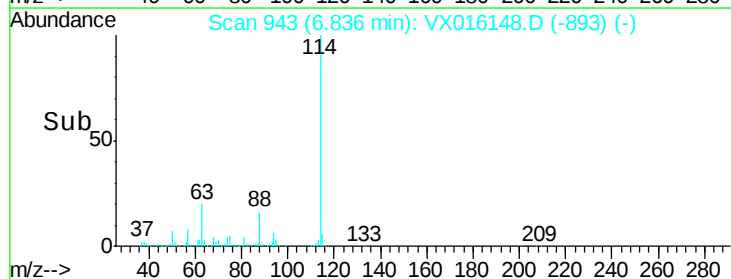
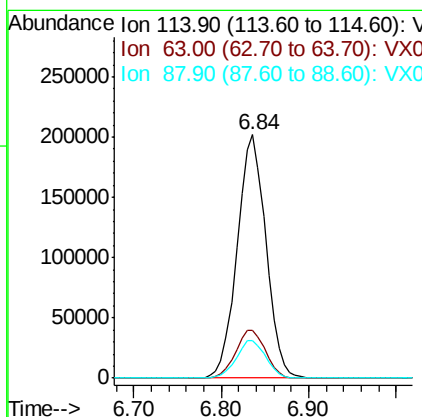
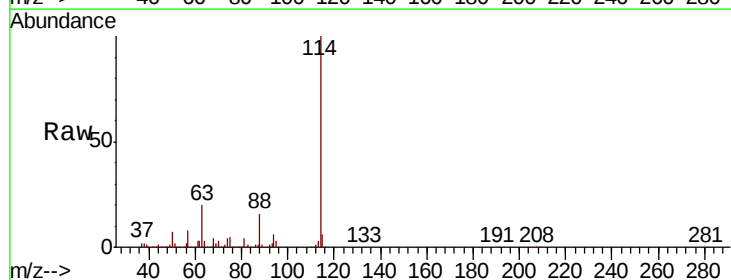
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS052MW274-200507

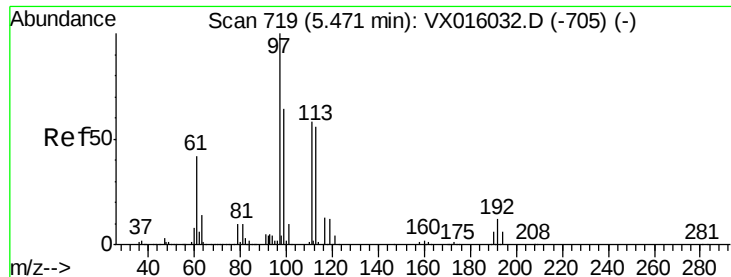
Tot Ion: 65 Resp: 170142  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. 0.01 min  
 Lab File: VX016148.D  
 Acq: 11 May 2020 14:56

Tgt Ion: 114 Resp: 461596  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 42.8  
 88 15.6 0.0 31.4

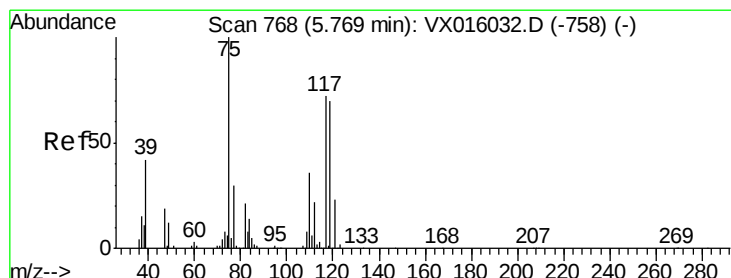
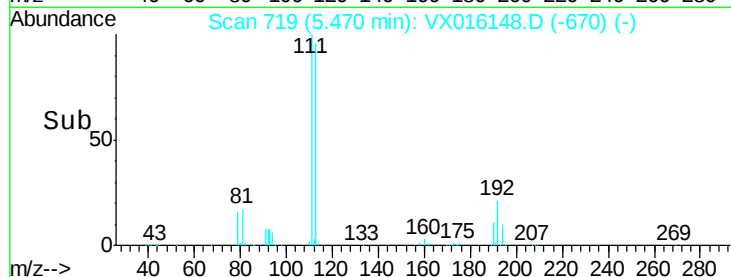
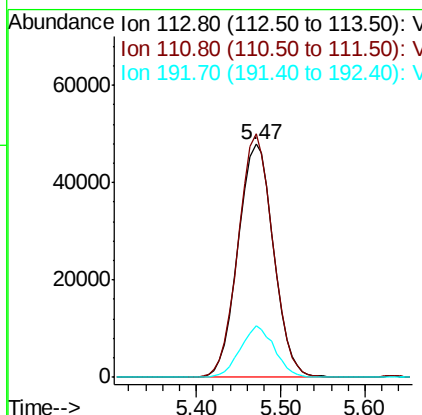
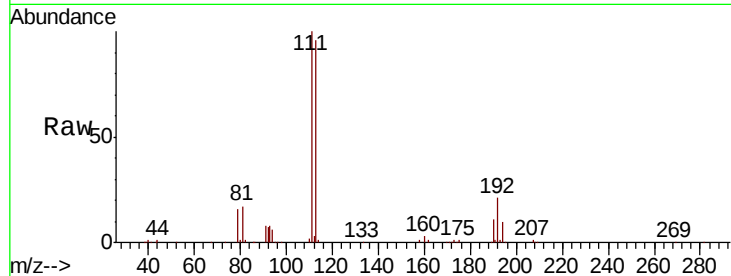




#35  
 Dibromofluoromethane  
 Concen: 46.830 ug/l  
 RT: 5.47 min Scan# 719  
 Delta R.T. -0.00 min  
 Lab File: VX016148.D  
 Acq: 11 May 2020 14:56

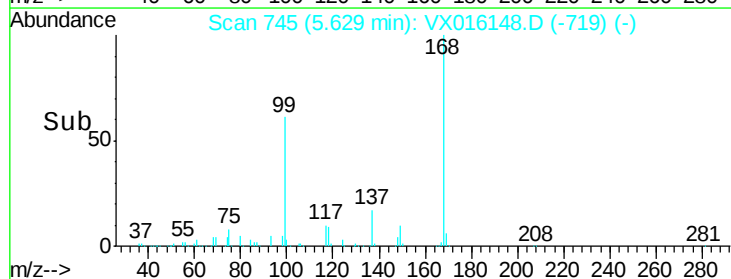
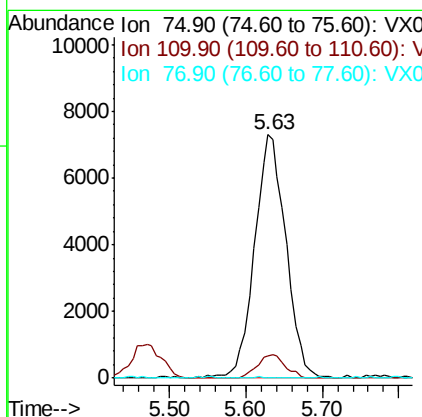
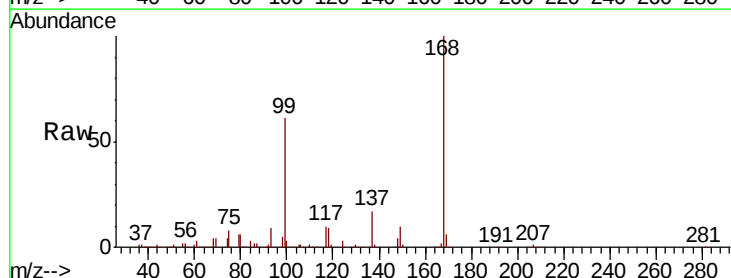
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SS052MW274-200507

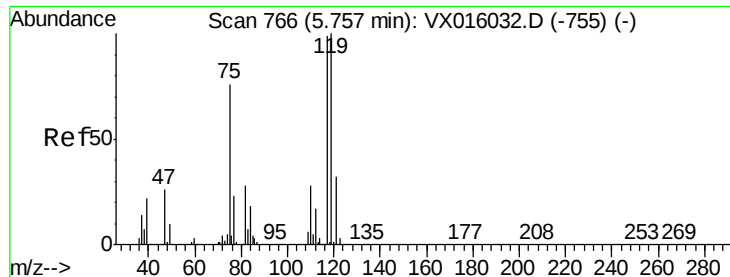
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.6  | 122.4 |
| 192     | 21.2  | 17.0  | 25.4  |



#36  
 1,1-Dichloropropene  
 Concen: 4.590 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX016148.D  
 Acq: 11 May 2020 14:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.4   | 18.1  | 54.1# |
| 77      | 0.1   | 25.0  | 37.6# |





#38

Carbon Tetrachloride

Concen: 5.809 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW274-200507

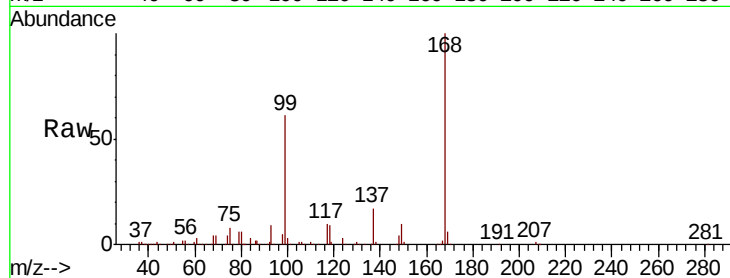
Tot Ion:117 Resp: 26828

Ion Ratio Lower Upper

117 100

119 6.2 80.3 120.5#

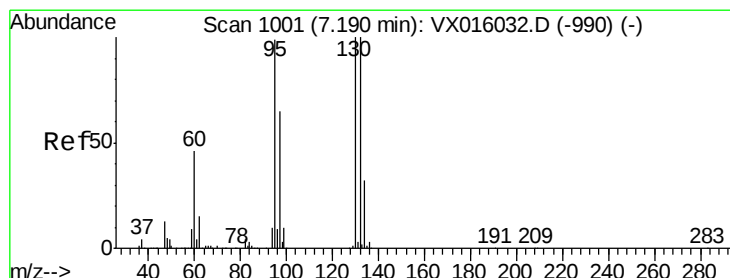
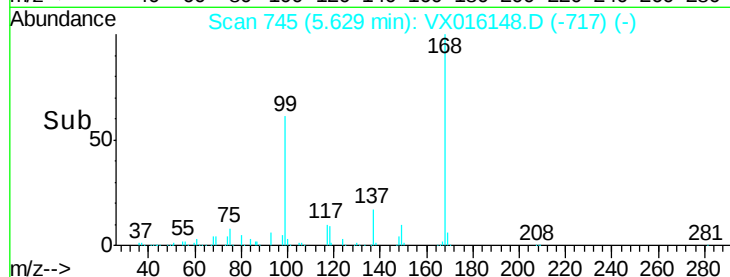
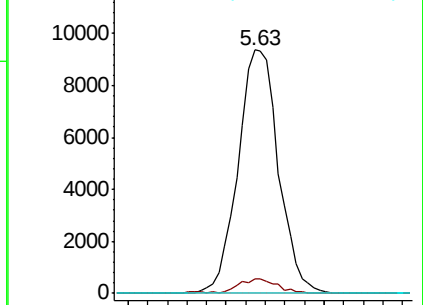
121 0.0 25.7 38.5#



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



#44

Trichloroethene

Concen: 6.938 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016148.D

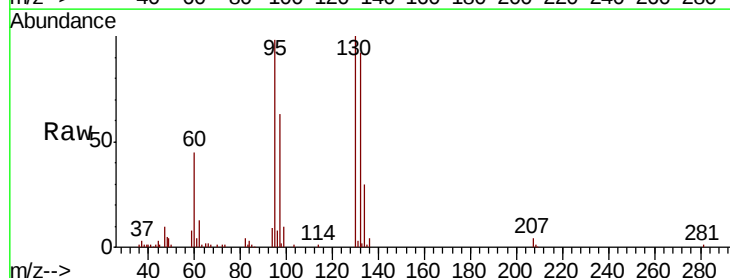
Acq: 11 May 2020 14:56

Tgt Ion:130 Resp: 32767

Ion Ratio Lower Upper

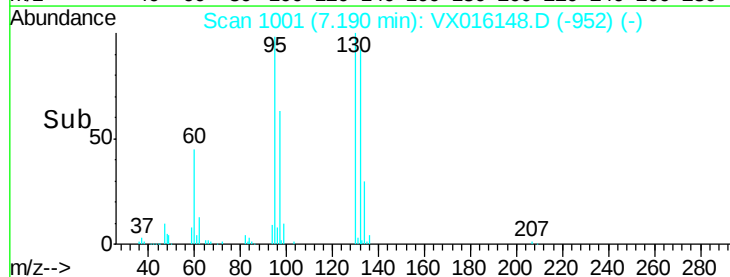
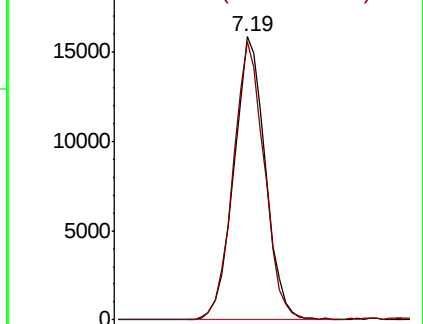
130 100

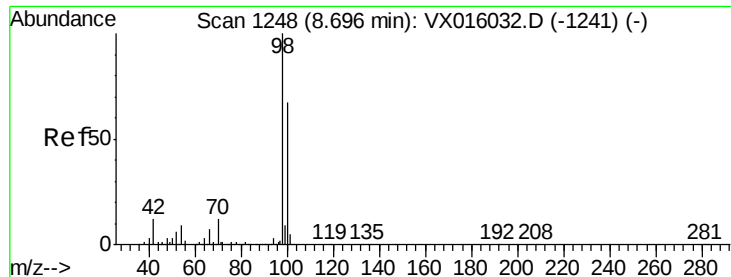
95 98.3 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.539 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

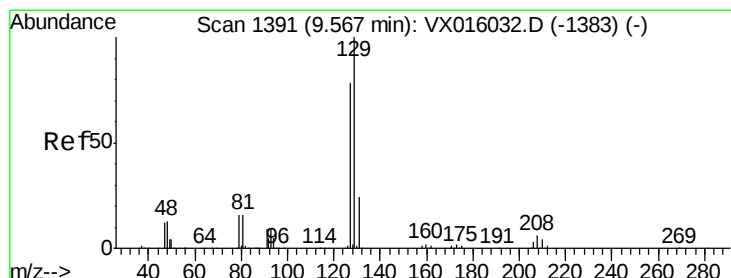
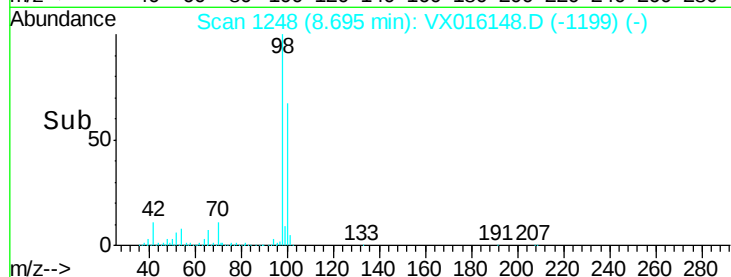
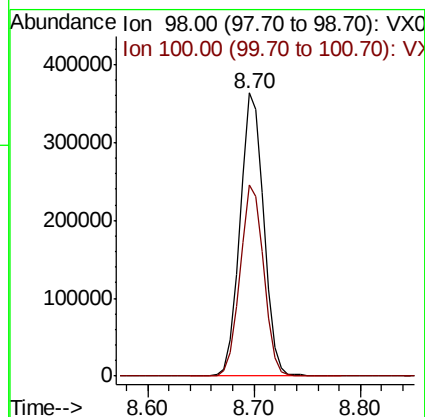
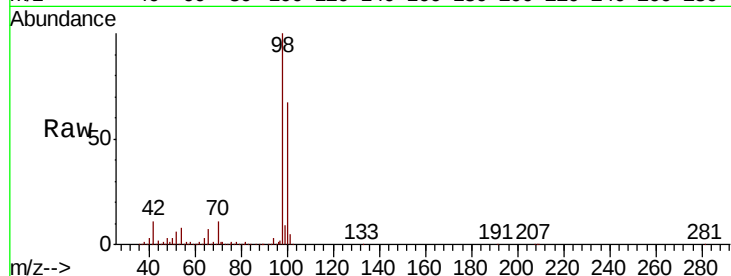
SS052MW274-200507

Tot Ion: 98 Resp: 569466

Ion Ratio Lower Upper

98 100

100 67.6 53.7 80.5



#60

Dibromochloromethane

Concen: 1.956 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016148.D

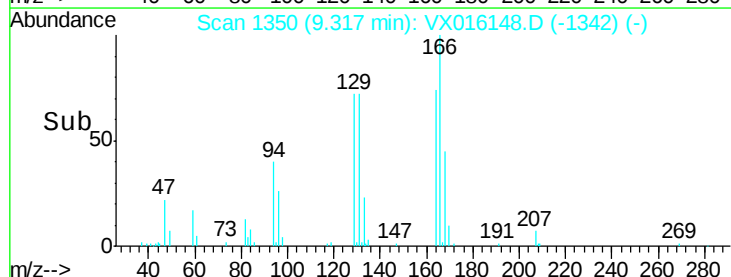
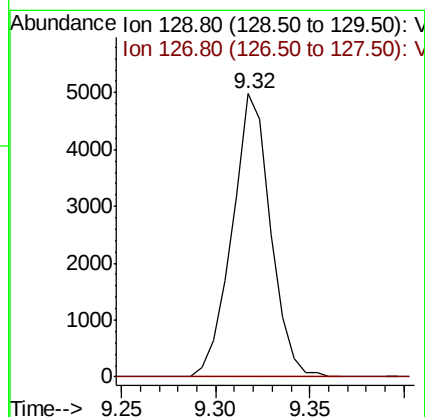
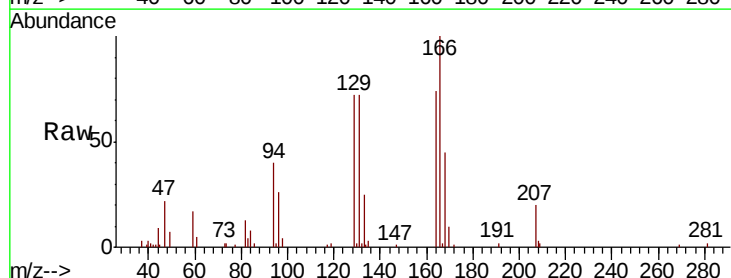
Acq: 11 May 2020 14:56

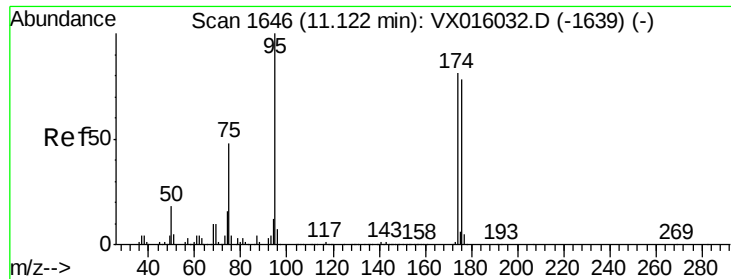
Tgt Ion: 129 Resp: 7025

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#

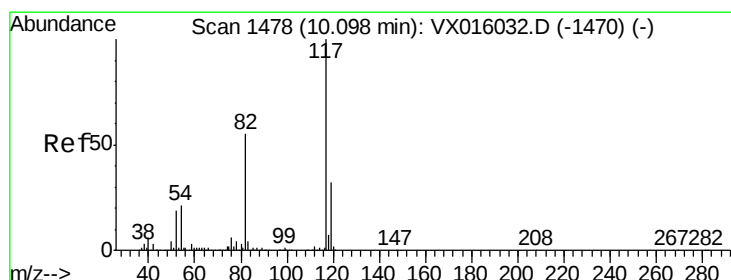
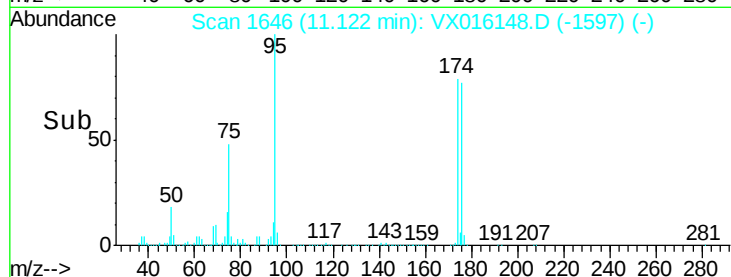
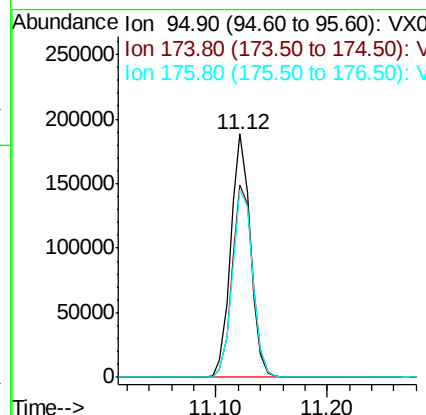
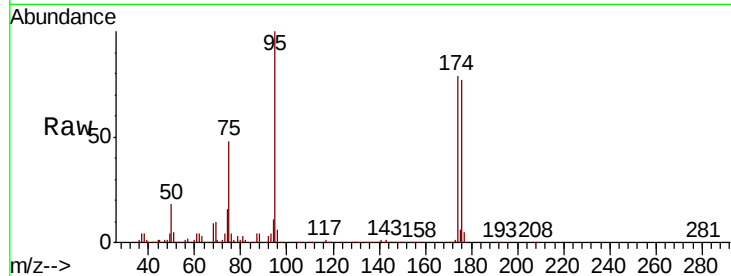




#62  
4-Bromofluorobenzene  
Concen: 53.521 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

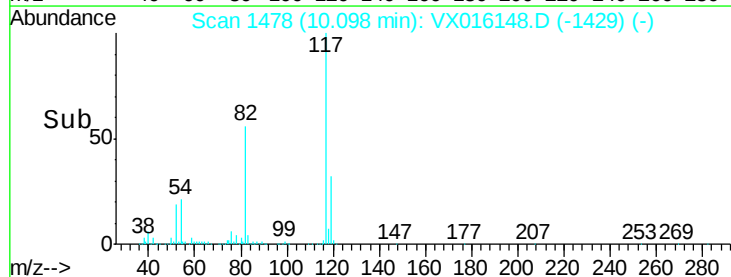
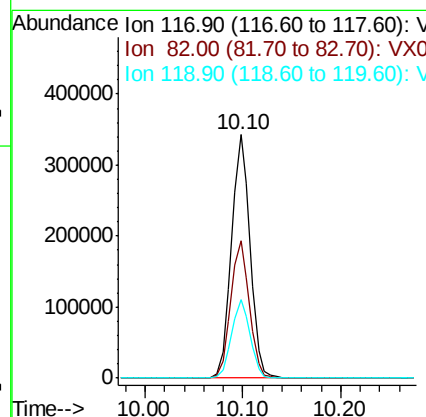
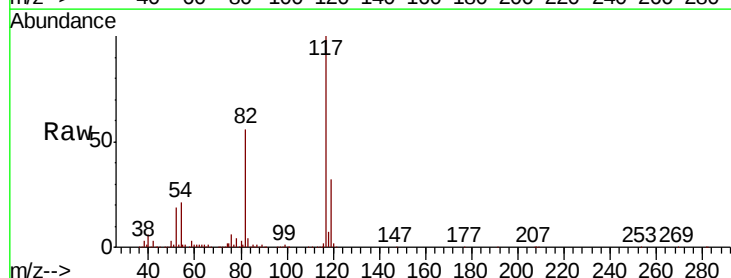
Instrument :  
MSVOA\_X  
ClientSampleId :  
SS052MW274-200507

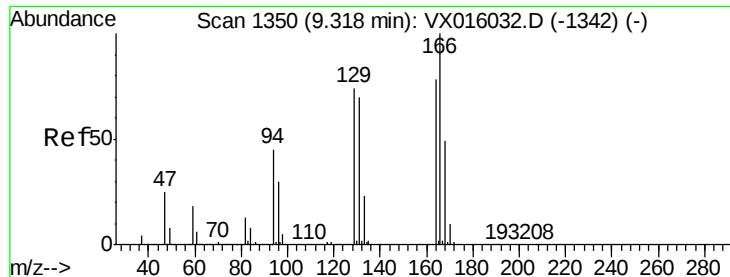
Tot Ion: 95 Resp: 229379  
Ion Ratio Lower Upper  
95 100  
174 82.2 0.0 159.4  
176 79.9 0.0 157.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016148.D  
Acq: 11 May 2020 14:56

Tgt Ion: 117 Resp: 453587  
Ion Ratio Lower Upper  
117 100  
82 56.3 44.4 66.6  
119 32.1 25.5 38.3





#64

Tetrachloroethene

Concen: 1.384 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW274-200507

Tot Ion:164 Resp: 7708

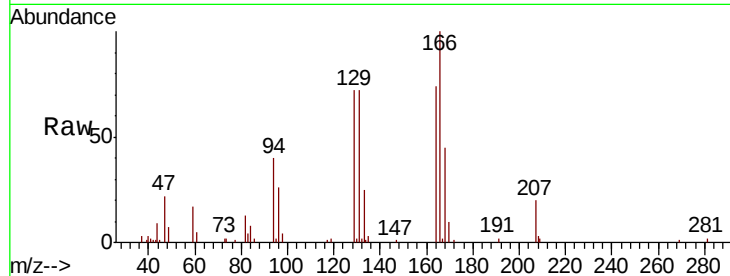
Ion Ratio Lower Upper

164 100

166 134.4 102.9 154.3

129 96.2 76.1 114.1

131 96.2 71.9 107.9

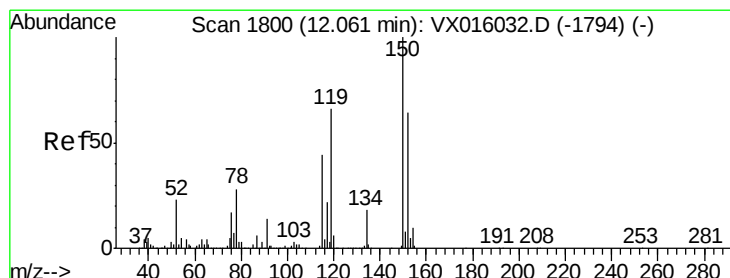
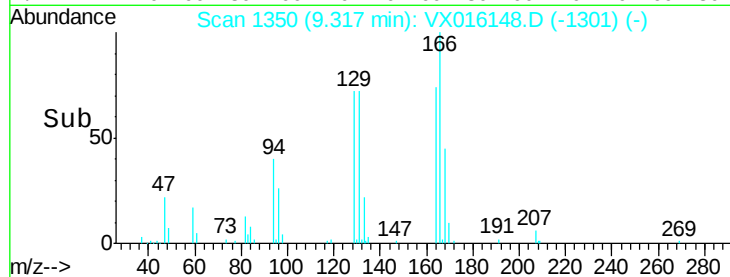
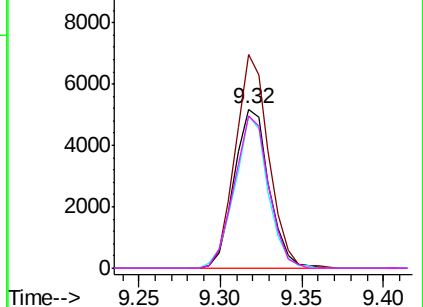


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

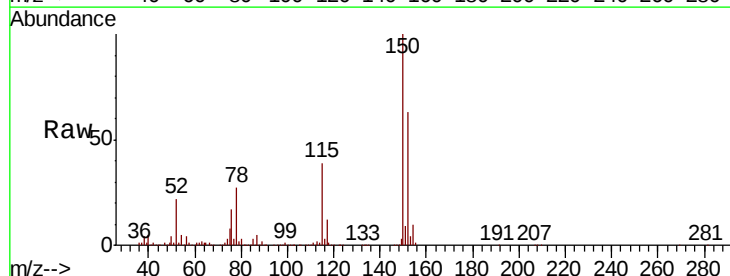
Tgt Ion:152 Resp: 231237

Ion Ratio Lower Upper

152 100

115 59.1 41.3 124.1

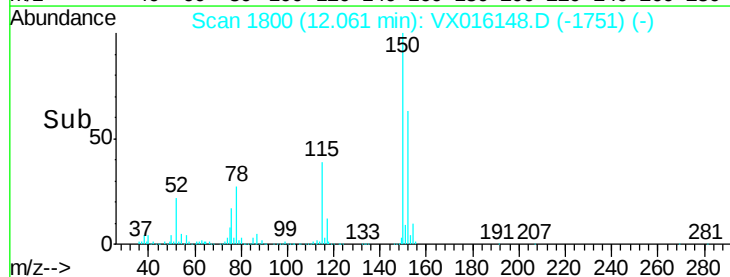
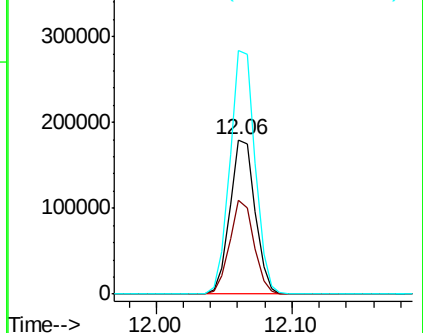
150 157.7 0.0 352.2

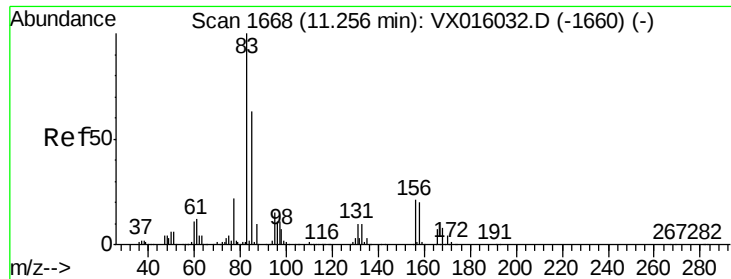


Abundance Ion 151.90 (151.60 to 152.60): V

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: 2.110 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW274-200507

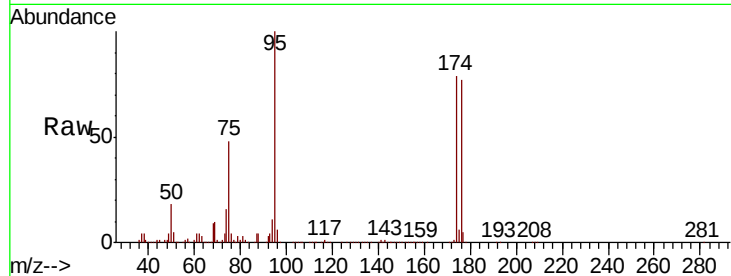
Tot Ion: 83 Resp: 193

Ion Ratio Lower Upper

83 100

131 153.9 5.1 15.4#

85 0.0 32.0 96.0#



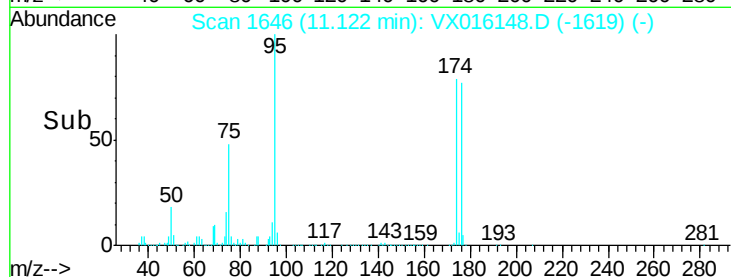
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

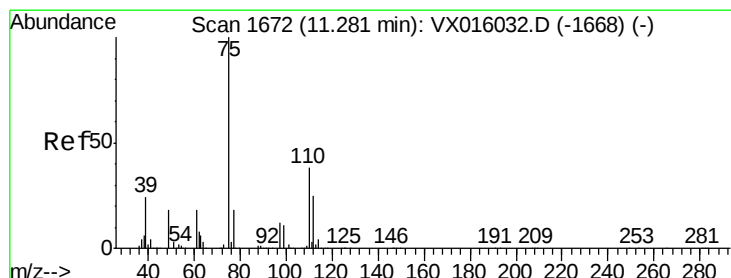
Ion 84.90 (84.60 to 85.60): VX0

11.12

11.10 11.15



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.528 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016148.D

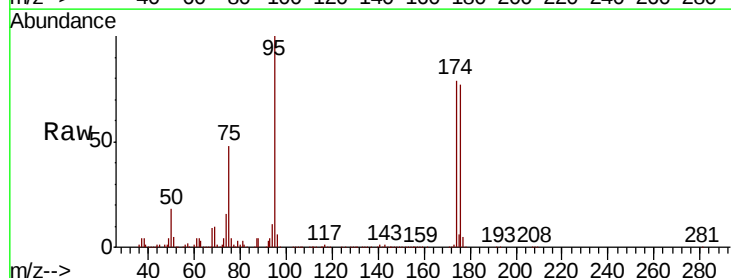
Acq: 11 May 2020 14:56

Tgt Ion: 75 Resp: 112966

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#

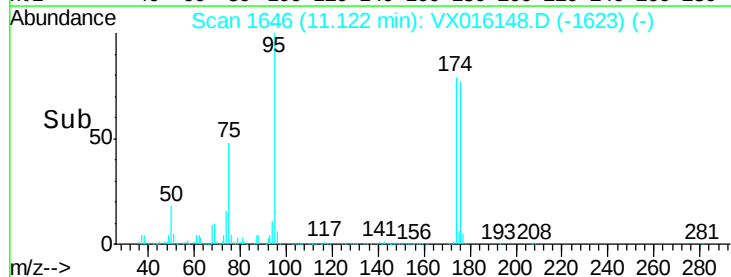


Abundance Ion 74.90 (74.60 to 75.60): VX0

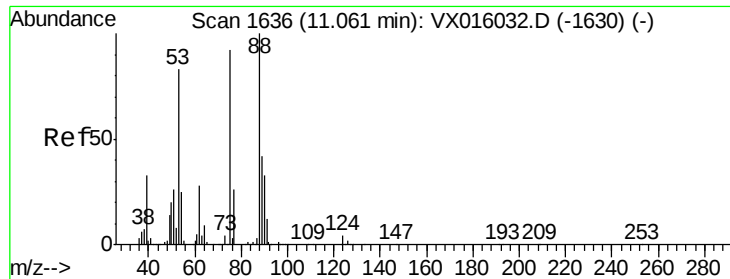
Ion 77.00 (76.70 to 77.70): VX0

11.12

11.10 11.20



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 51.304 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

Instrument :

MSVOA\_X

ClientSampleId :

SS052MW274-200507

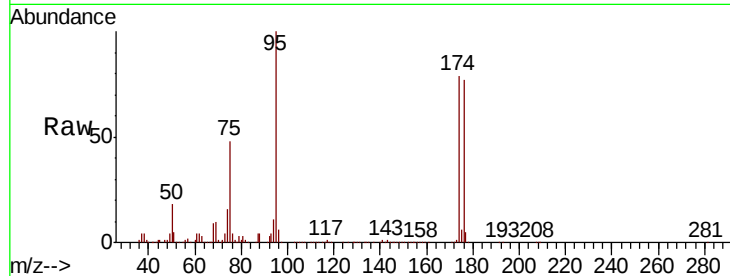
Tot Ion: 75 Resp: 112966

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

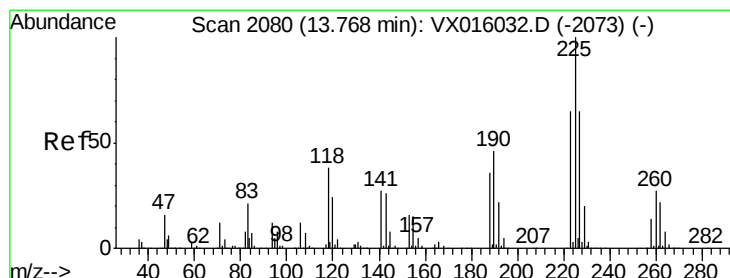
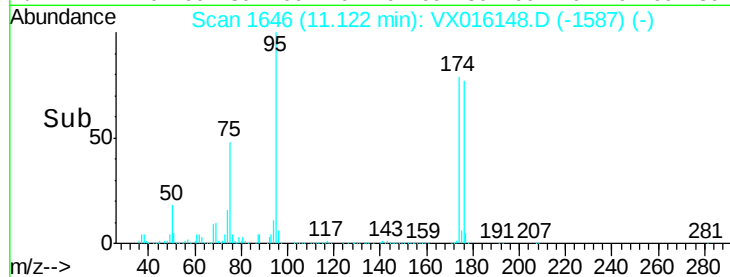
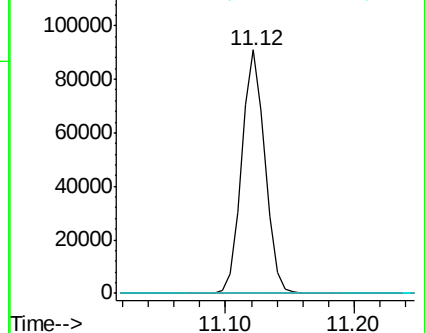
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.541 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016148.D

Acq: 11 May 2020 14:56

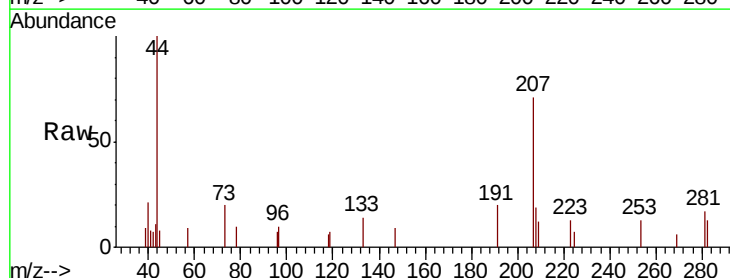
Tgt Ion: 225 Resp: 42

Ion Ratio Lower Upper

225 100

223 266.7 32.3 96.9#

227 0.0 31.8 95.4#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

