

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011519\  
 Data File : VX007057.D  
 Acq On : 15 Jan 2019 14:40  
 Operator : JC/SP  
 Sample : K1150-05  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY038PS038-190114

Quant Time: Jan 16 00:03:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 559218   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 872802   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 811010   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 399131   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 300807   | 51.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.94% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 268839   | 48.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.20%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1045778  | 51.12 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.24% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 372774   | 52.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.52% |          |

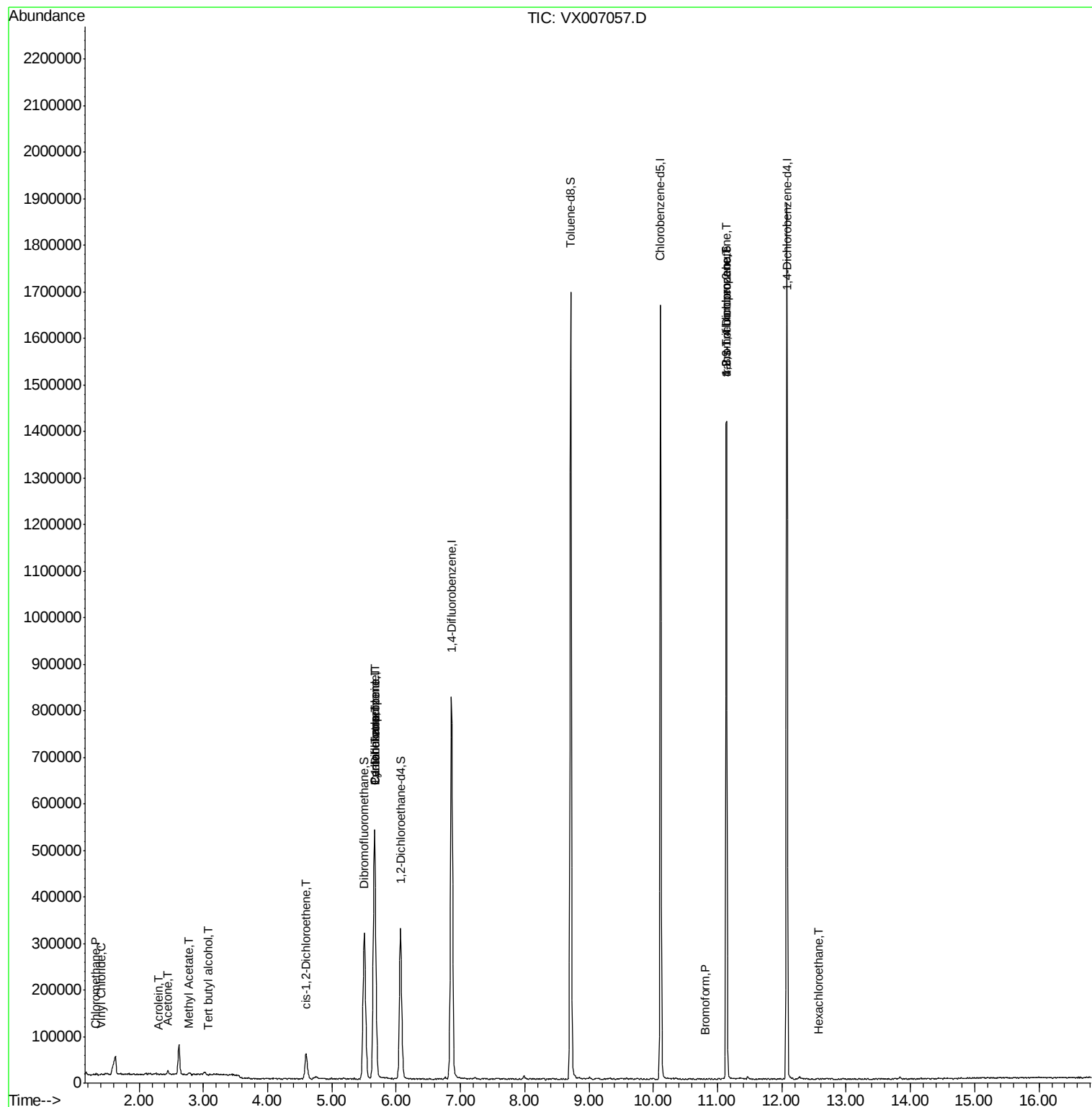
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 3148     | 0.589     | ug/l # | 81     |
| 4) Vinyl Chloride              | 1.41  | 62   | 1323     | 0.230     | ug/l # | 43     |
| 11) Tert butyl alcohol         | 3.08  | 59   | 839      | 0.609     | ug/l # | 38     |
| 13) Acrolein                   | 2.31  | 56   | 499      | 3.913     | ug/l # | 62     |
| 16) Acetone                    | 2.45  | 43   | 9449     | 3.270     | ug/l # | 88     |
| 18) Methyl Acetate             | 2.78  | 43   | 3403     | 0.407     | ug/l # | 56     |
| 20) Methylene Chloride         | 2.85  | 84   | 462      | Below Cal | #      | 6      |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 36323    | 5.749     | ug/l   | 95     |
| 31) Cyclohexane                | 5.67  | 56   | 10795    | 1.310     | ug/l # | 3      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 38466    | 5.069     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 51164    | 6.701     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 210      | Below Cal | #      | 1      |
| 71) Bromoform                  | 10.80 | 173  | 98       | 4.744     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 179888   | 22.241    | ug/l # | 40     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 179888   | 65.824    | ug/l # | 10     |
| 90) Hexachloroethane           | 12.57 | 117  | 223      | 2.961     | ug/l # | 6      |

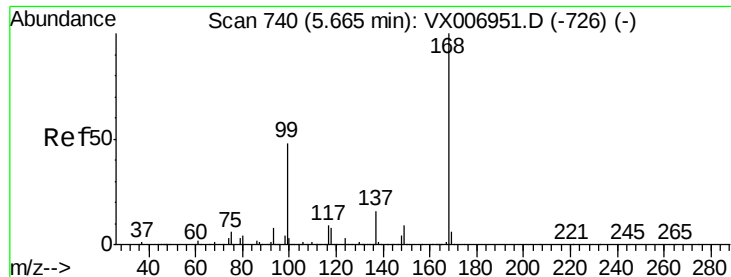
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX011519\  
Data File : VX007057.D  
Acq On : 15 Jan 2019 14:40  
Operator : JC/SP  
Sample : K1150-05  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS038-190114

Quant Time: Jan 16 00:03:59 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 08 14:06:59 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

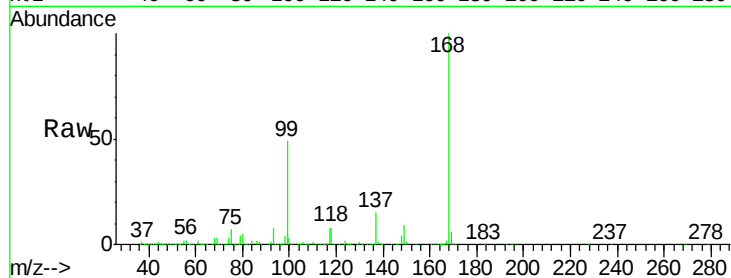
KY038PS038-190114

Tot Ion:168 Resp: 559218

Ion Ratio Lower Upper

168 100

99 49.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

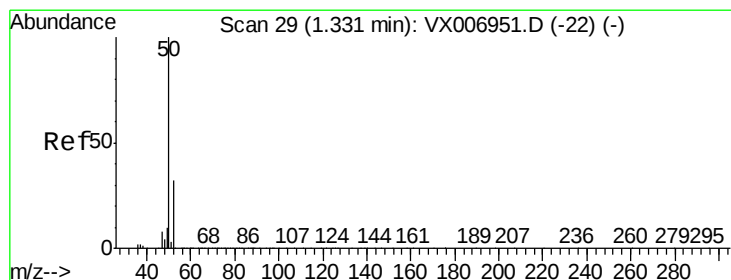
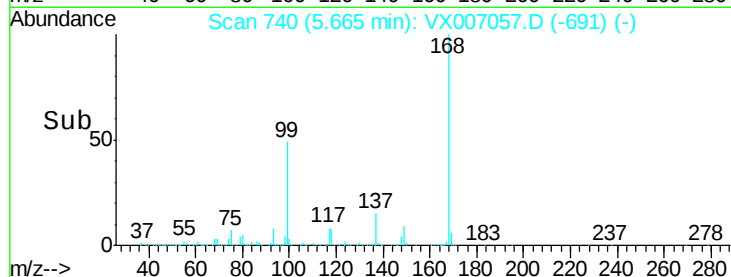
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.589 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007057.D

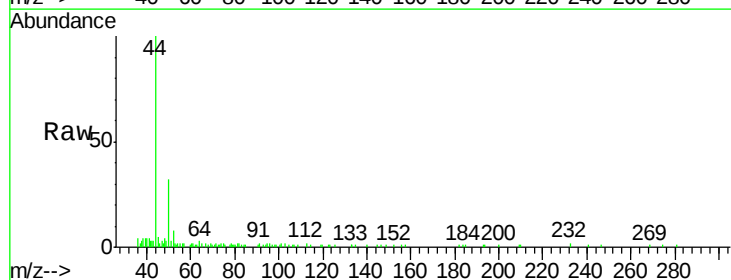
Acq: 15 Jan 2019 14:40

Tgt Ion: 50 Resp: 3148

Ion Ratio Lower Upper

50 100

52 21.2 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

2500

2000

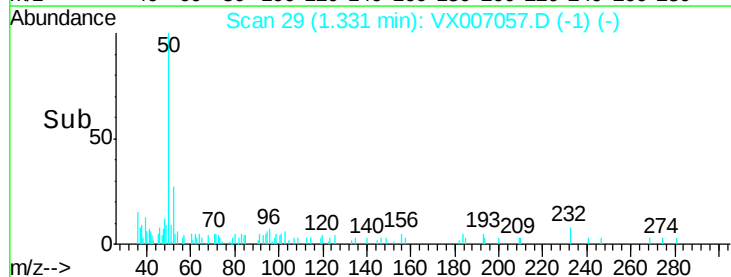
1500

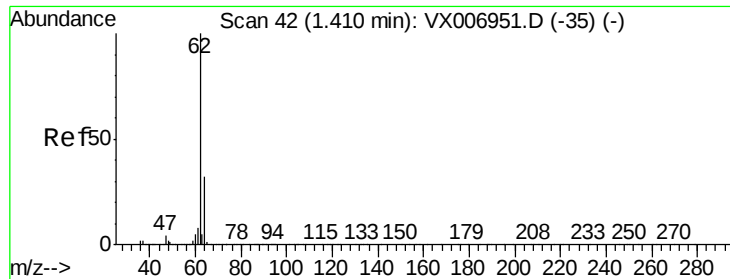
1000

500

0

Time-->





#4

Vinyl Chloride

Concen: 0.230 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

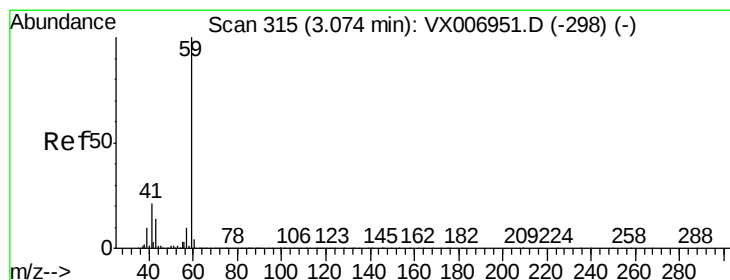
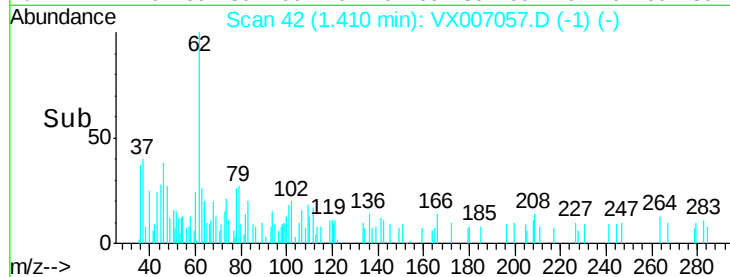
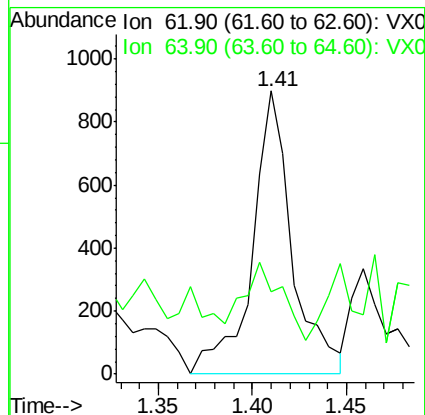
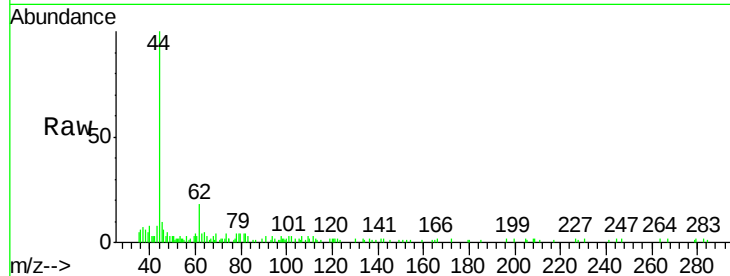
KY038PS038-190114

Tot Ion: 62 Resp: 1323

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 0.609 ug/l

RT: 3.08 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX007057.D

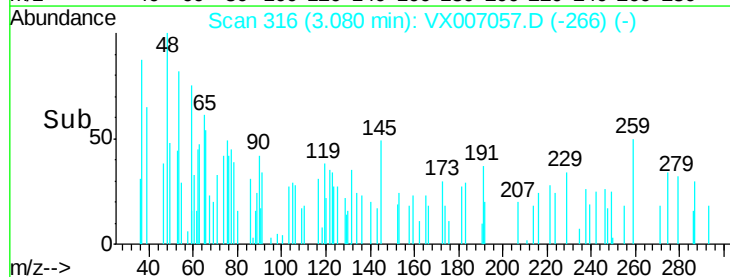
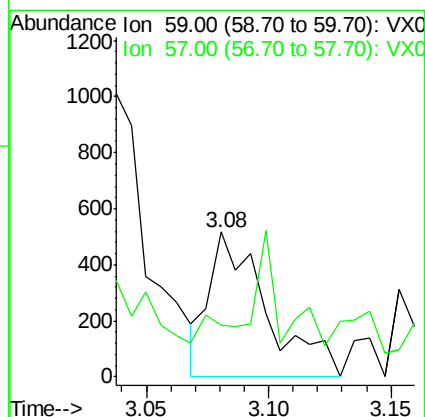
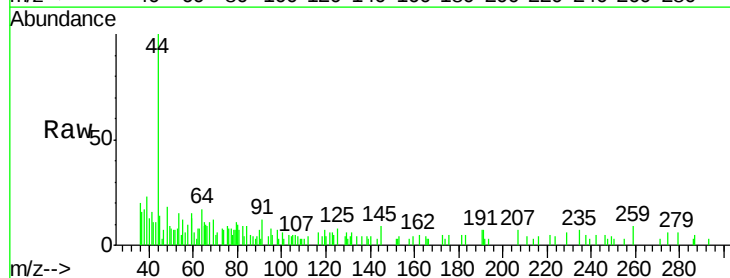
Acq: 15 Jan 2019 14:40

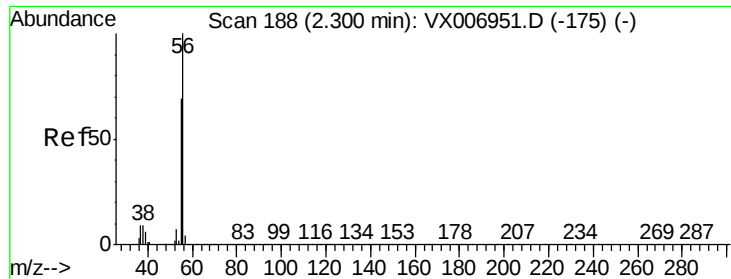
Tgt Ion: 59 Resp: 839

Ion Ratio Lower Upper

59 100

57 34.0 8.5 12.7#





#13

Acrolein

Concen: 3.913 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

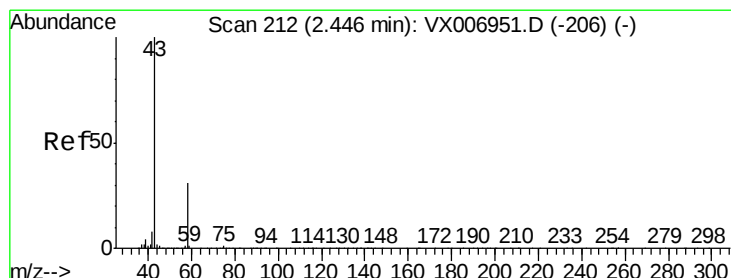
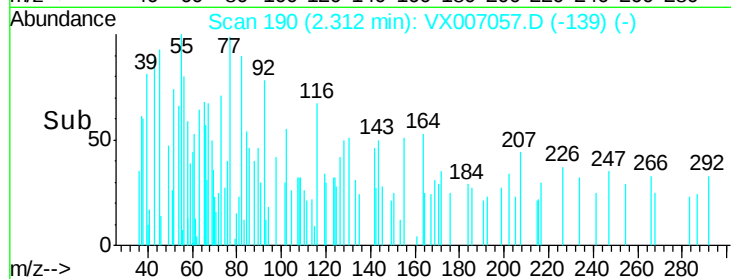
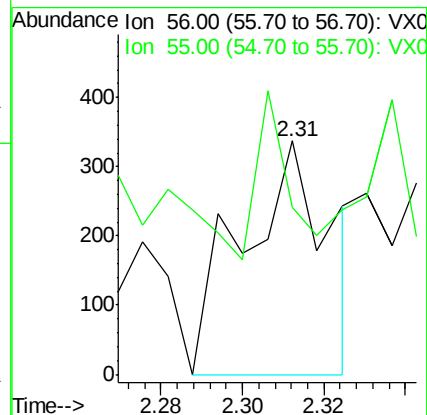
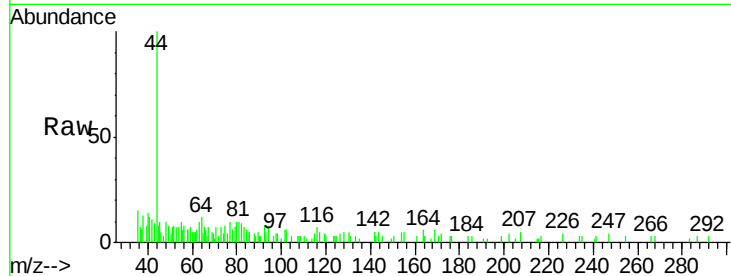
KY038PS038-190114

Tot Ion: 56 Resp: 499

Ion Ratio Lower Upper

56 100

55 40.7 58.2 87.4#



#16

Acetone

Concen: 3.270 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007057.D

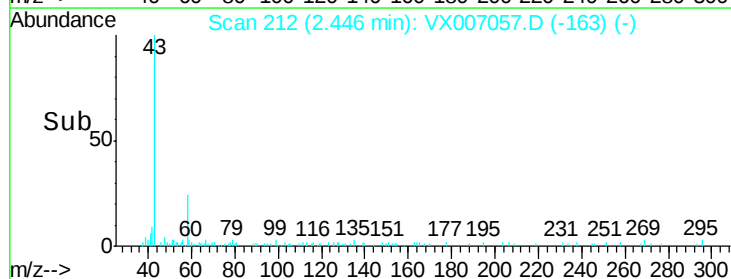
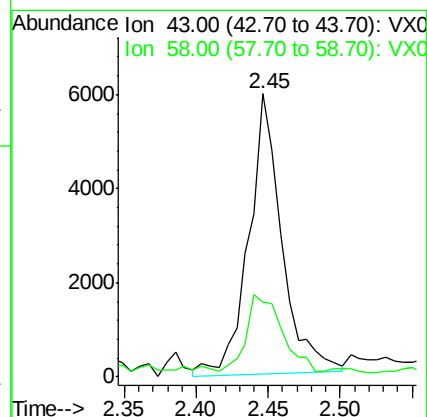
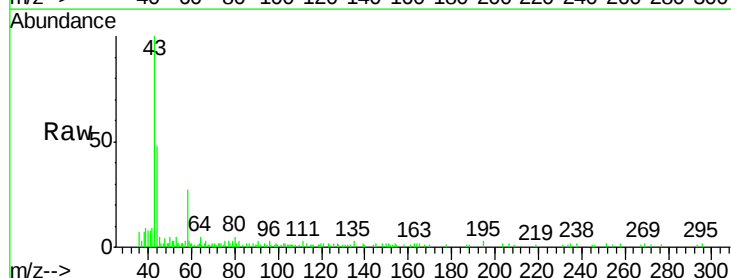
Acq: 15 Jan 2019 14:40

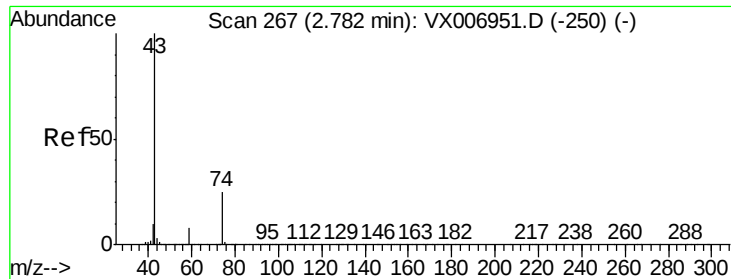
Tgt Ion: 43 Resp: 9449

Ion Ratio Lower Upper

43 100

58 24.6 25.0 37.6#

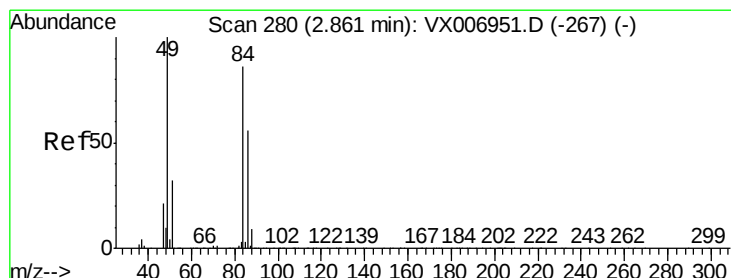
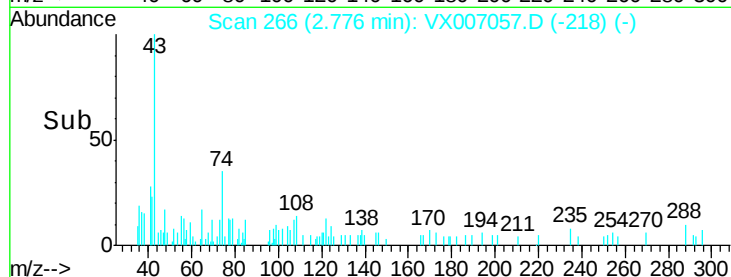
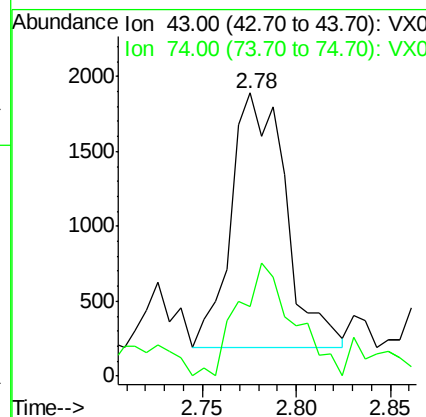
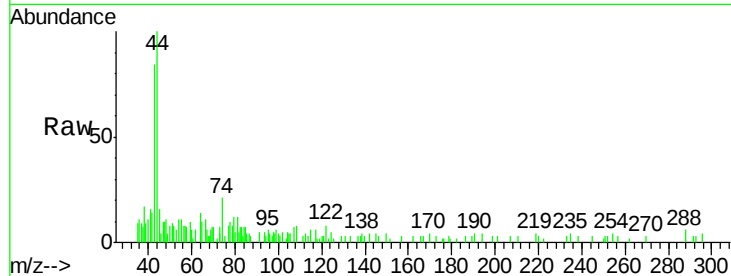




#18  
Methyl Acetate  
Concen: 0.407 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX007057.D  
Acq: 15 Jan 2019 14:40

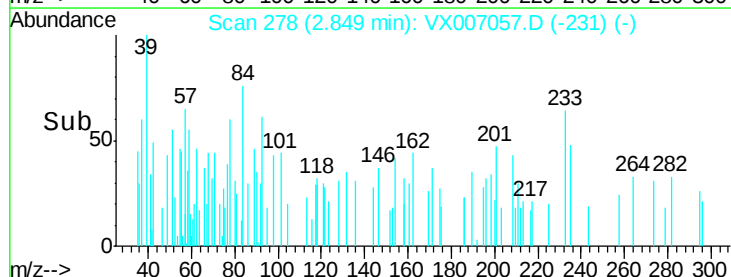
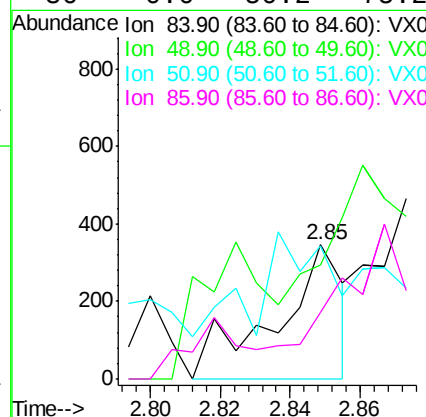
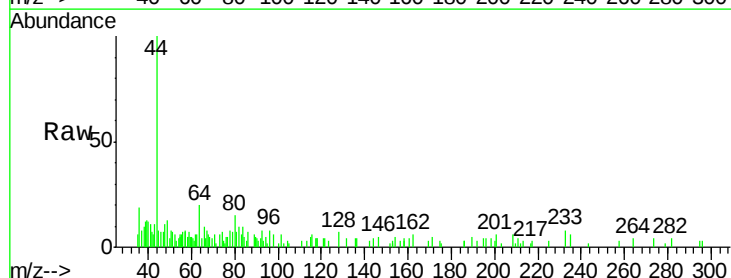
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS038-190114

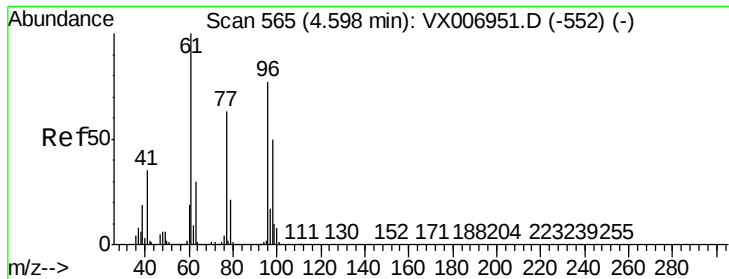
Tot Ion: 43 Resp: 3403  
Ion Ratio Lower Upper  
43 100  
74 44.9 18.6 28.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.85 min Scan# 278  
Delta R.T. -0.01 min  
Lab File: VX007057.D  
Acq: 15 Jan 2019 14:40

Tgt Ion: 84 Resp: 462  
Ion Ratio Lower Upper  
84 100  
49 14.3 91.8 137.6#  
51 107.8 28.5 42.7#  
86 0.0 50.2 75.2#



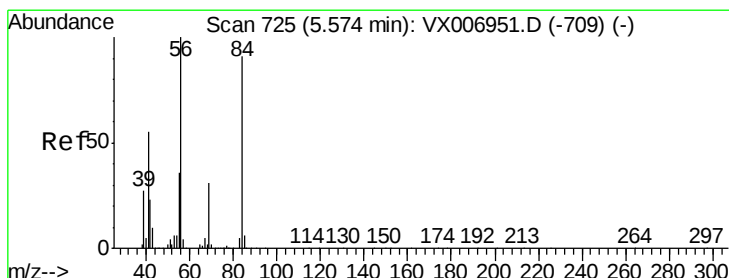
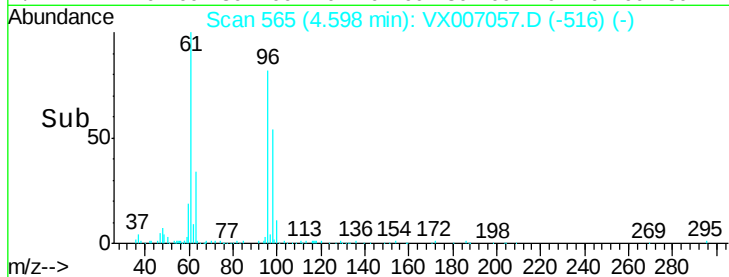
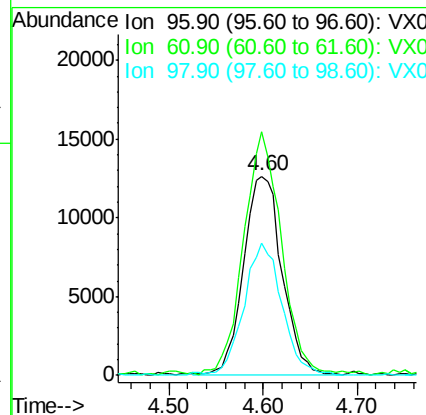
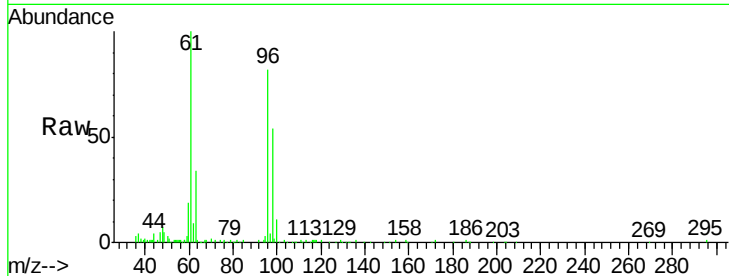


#27

cis-1,2-Dichloroethene  
Concen: 5.749 ug/l  
RT: 4.60 min Scan# 565  
Delta R.T. 0.00 min  
Lab File: VX007057.D  
Acq: 15 Jan 2019 14:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS038-190114

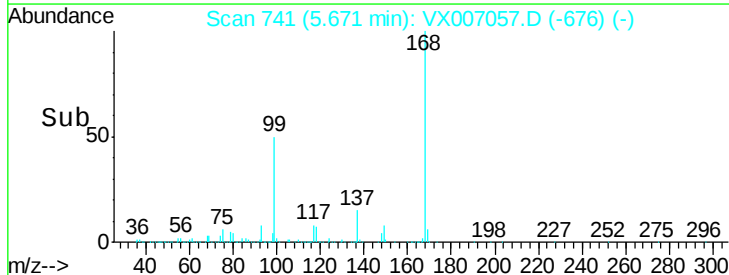
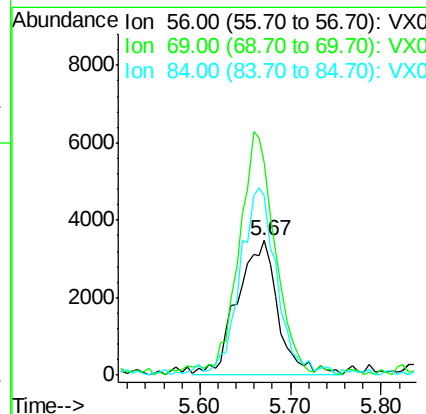
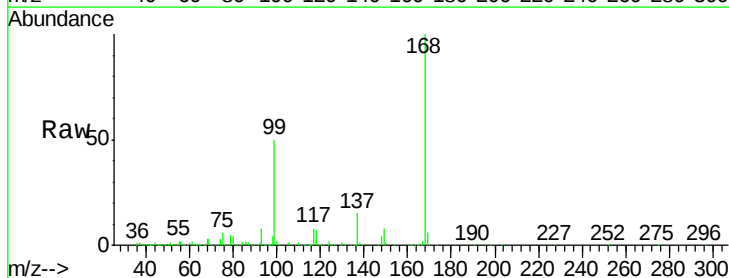
Tot Ion: 96 Resp: 36323  
Ion Ratio Lower Upper  
96 100  
61 121.1 0.0 258.6  
98 65.2 0.0 132.0

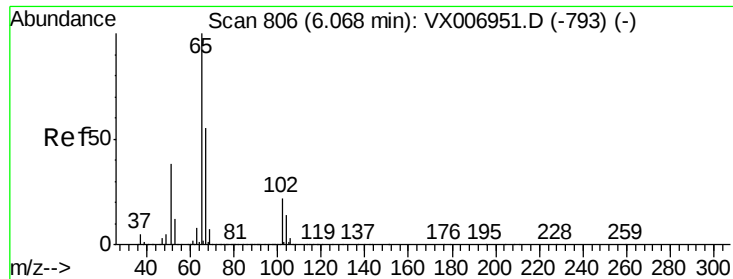


#31

Cyclohexane  
Concen: 1.310 ug/l  
RT: 5.67 min Scan# 741  
Delta R.T. 0.10 min  
Lab File: VX007057.D  
Acq: 15 Jan 2019 14:40

Tgt Ion: 56 Resp: 10795  
Ion Ratio Lower Upper  
56 100  
69 159.7 24.4 36.6#  
84 132.7 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 51.470 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

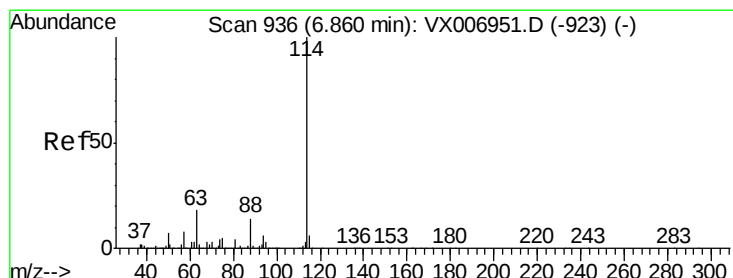
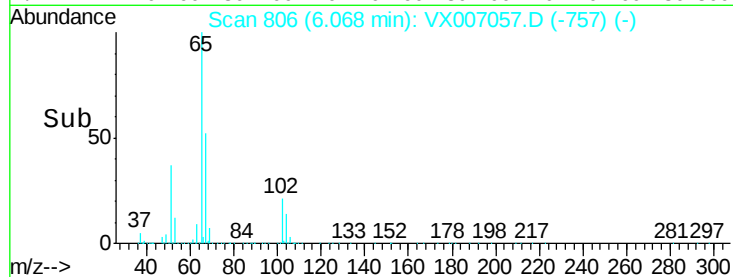
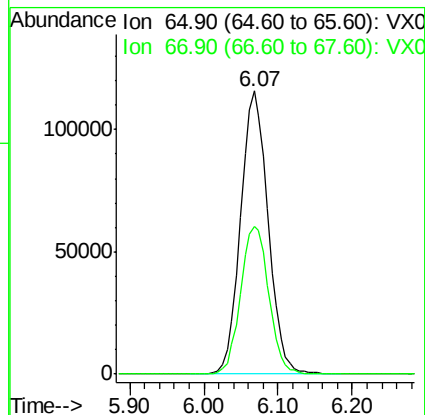
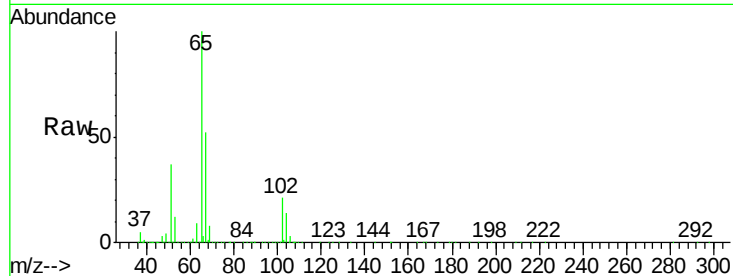
KY038PS038-190114

Tot Ion: 65 Resp: 300807

Ion Ratio Lower Upper

65 100

67 53.5 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

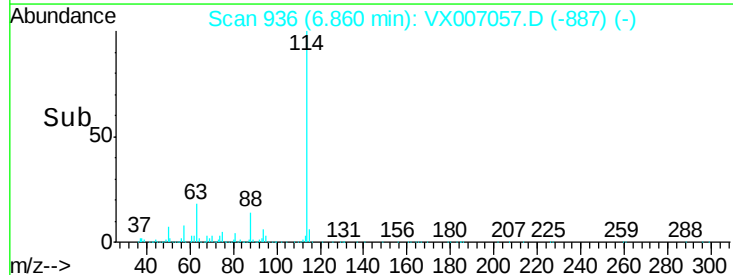
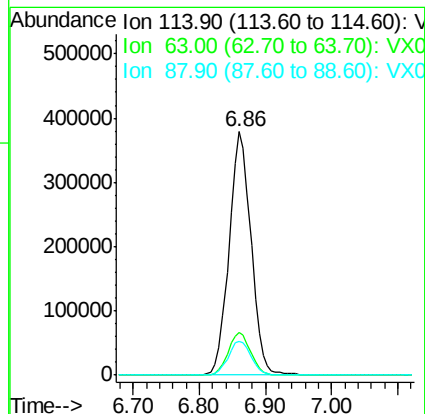
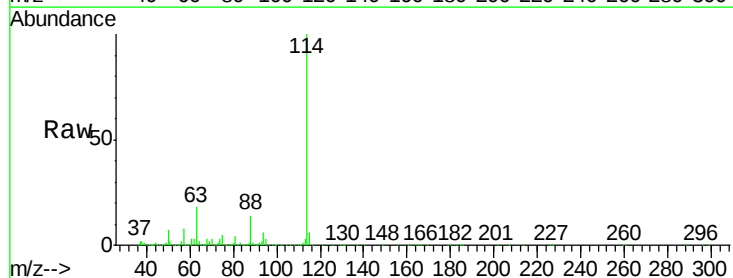
Tgt Ion: 114 Resp: 872802

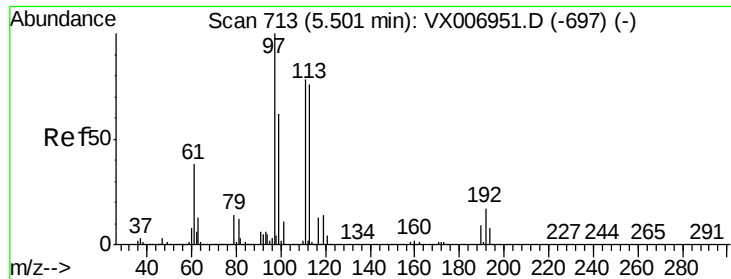
Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

88 13.9 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.098 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS038-190114

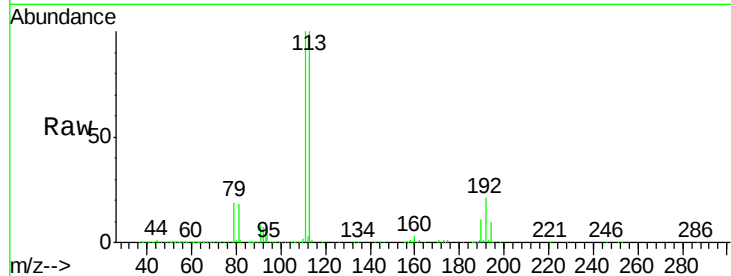
Tot Ion:113 Resp: 268839

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

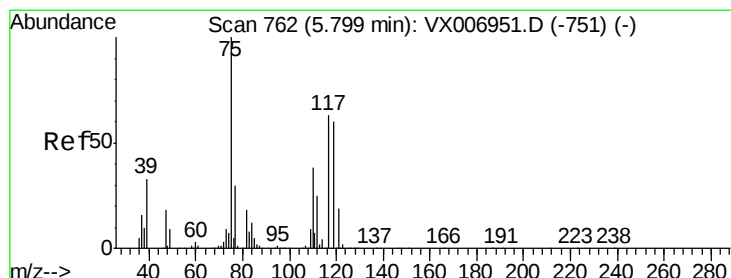
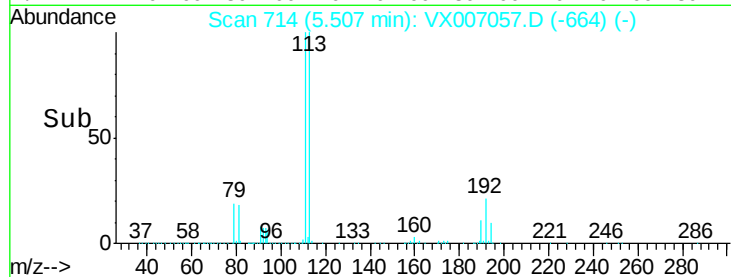
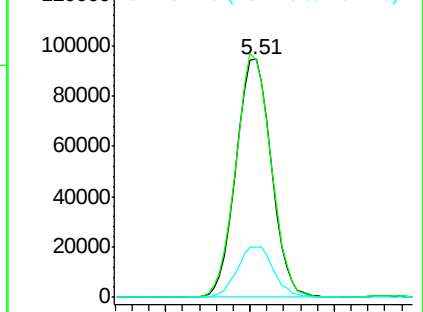
192 21.9 16.7 25.1



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: 5.069 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

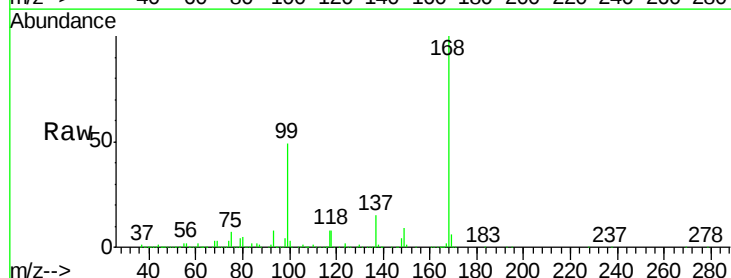
Tgt Ion: 75 Resp: 38466

Ion Ratio Lower Upper

75 100

110 10.8 20.2 60.5#

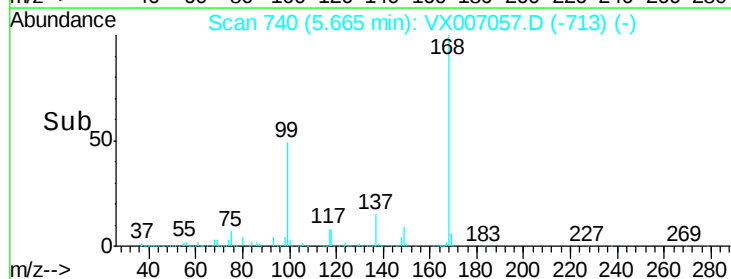
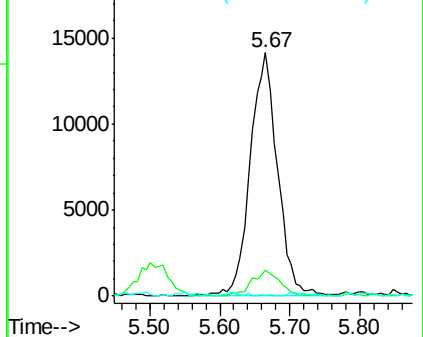
77 0.3 24.8 37.2#

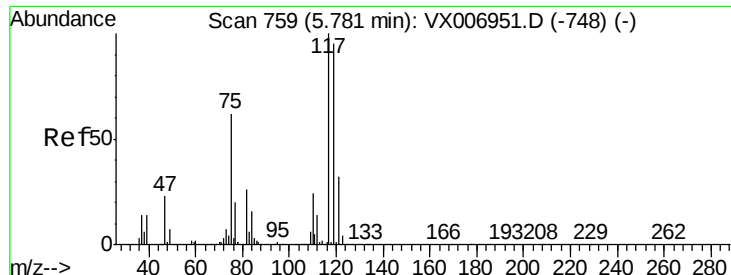


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.701 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS038-190114

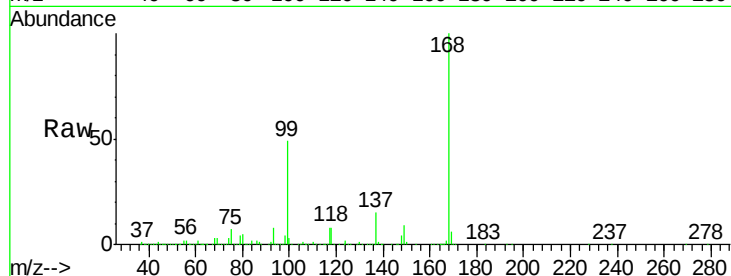
Tot Ion:117 Resp: 51164

Ion Ratio Lower Upper

117 100

119 5.1 79.4 119.2#

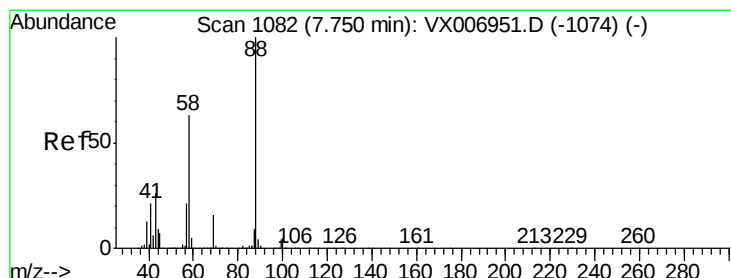
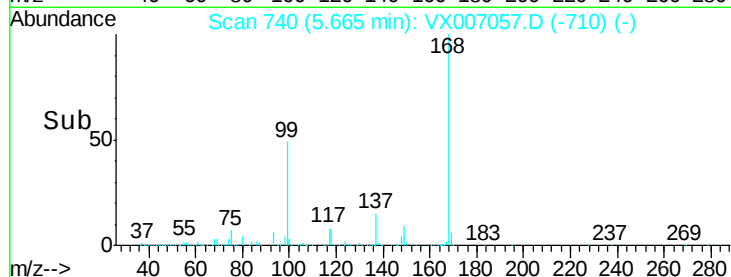
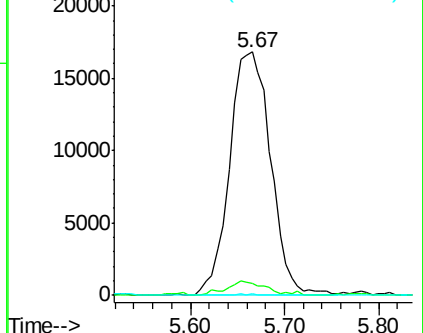
121 0.7 24.0 36.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

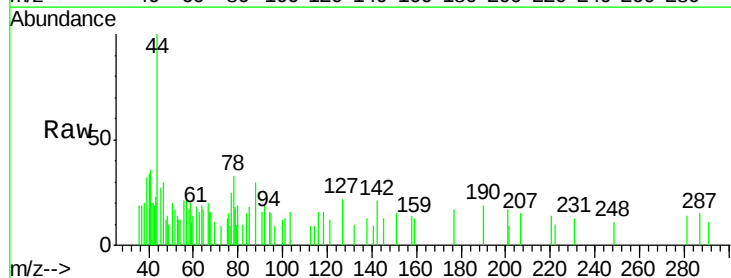
Tgt Ion: 88 Resp: 210

Ion Ratio Lower Upper

88 100

43 128.1 22.2 33.4#

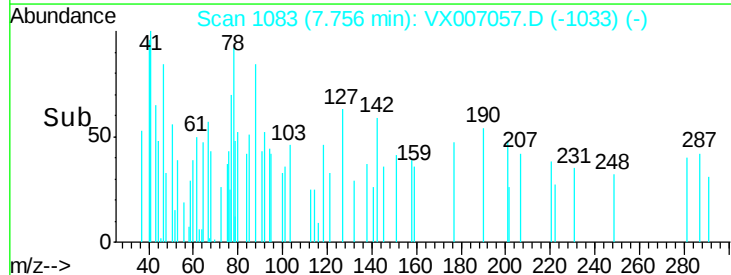
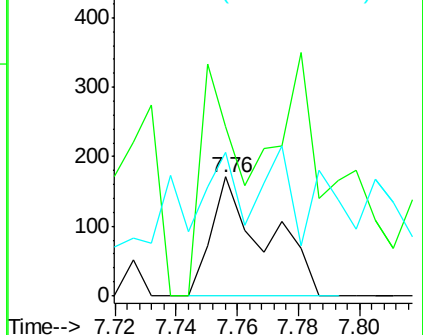
58 167.1 51.0 76.4#

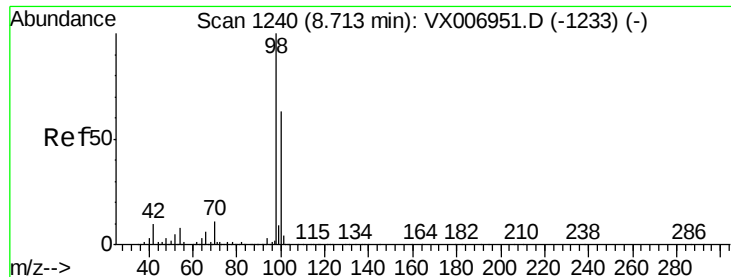


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.116 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

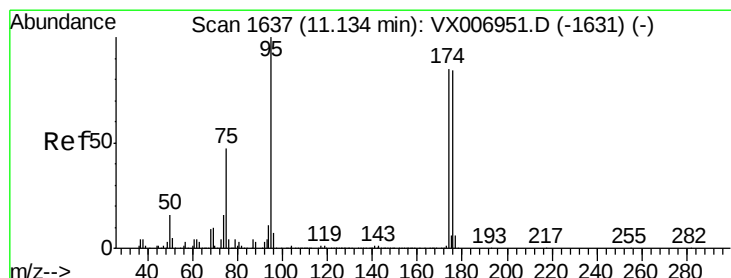
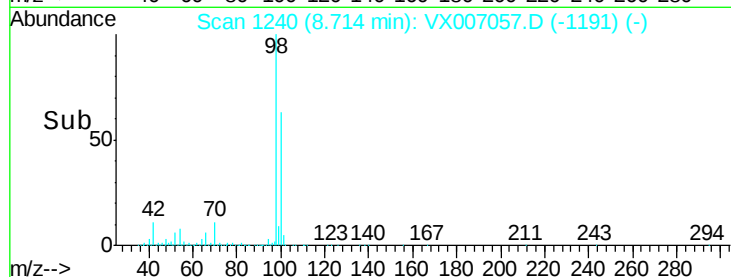
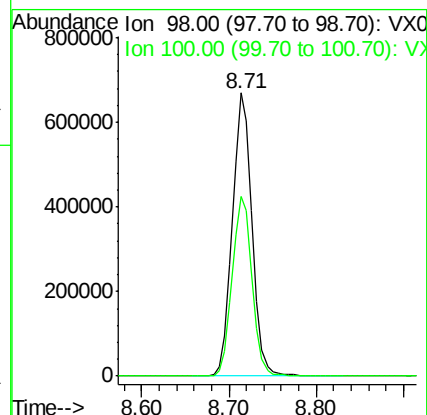
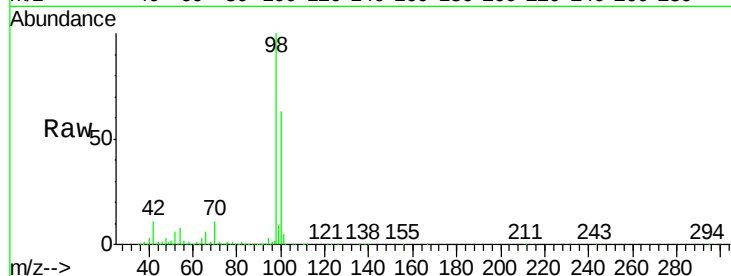
KY038PS038-190114

Tot Ion: 98 Resp: 1045778

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 52.265 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

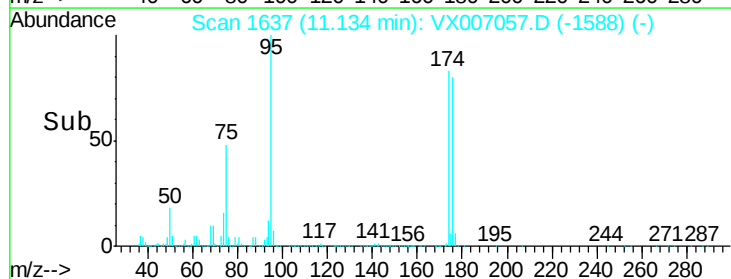
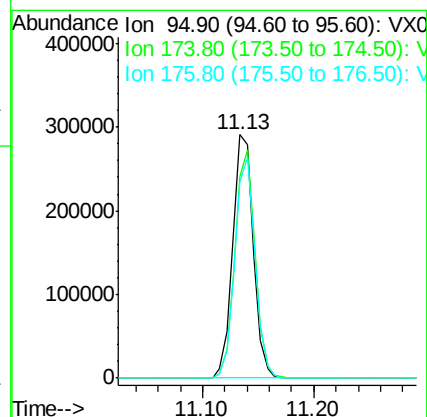
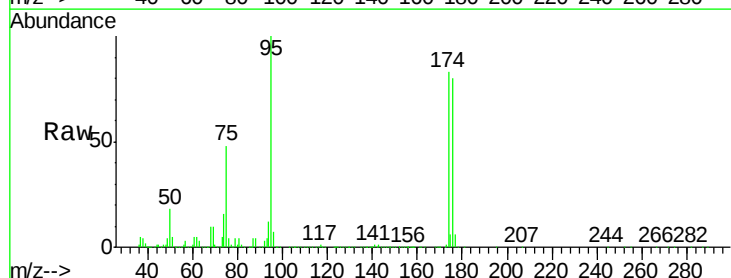
Tgt Ion: 95 Resp: 372774

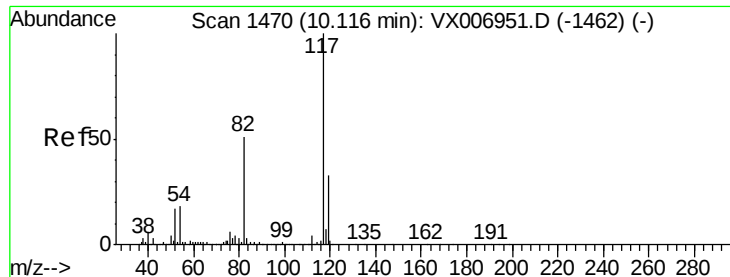
Ion Ratio Lower Upper

95 100

174 91.9 0.0 182.2

176 88.8 0.0 178.8

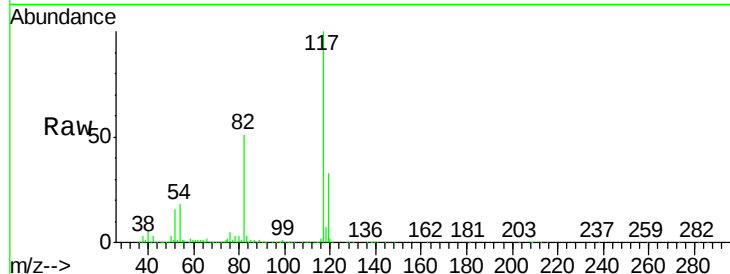




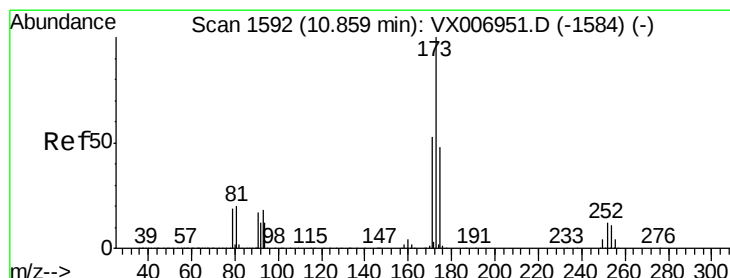
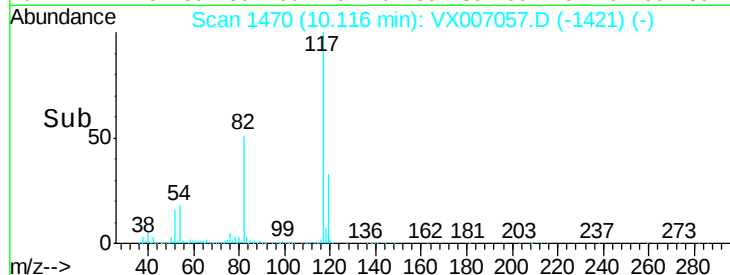
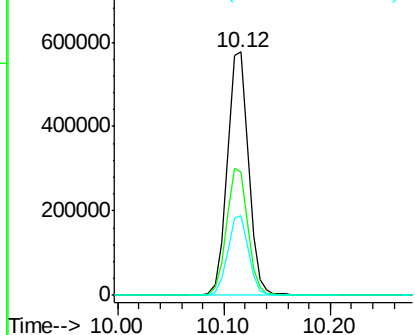
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX007057.D  
Acq: 15 Jan 2019 14:40

Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS038-190114

Tot Ion:117 Resp: 811010  
Ion Ratio Lower Upper  
117 100  
82 50.8 41.0 61.6  
119 32.6 25.4 38.0

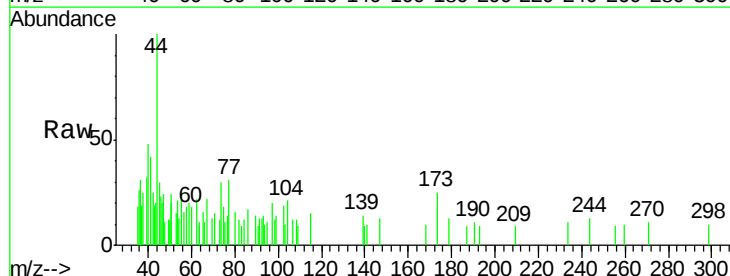


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

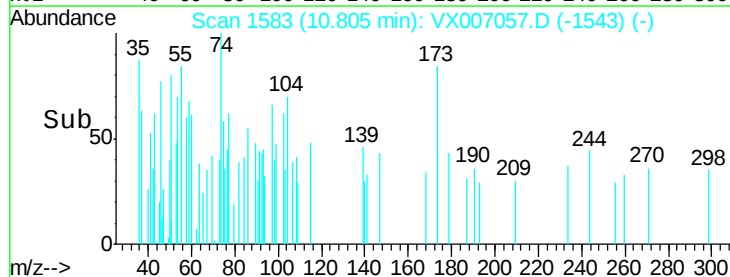
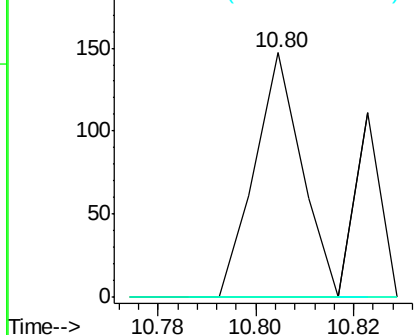


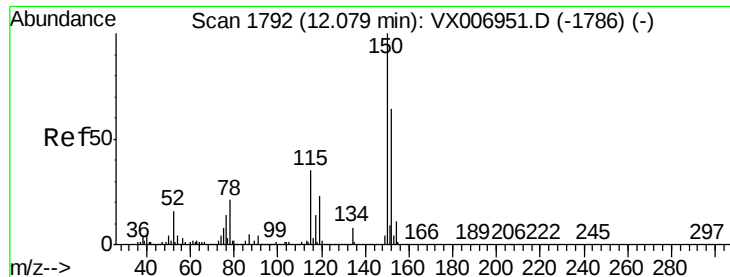
#71  
Bromoform  
Concen: 4.744 ug/l  
RT: 10.80 min Scan# 1583  
Delta R.T. -0.05 min  
Lab File: VX007057.D  
Acq: 15 Jan 2019 14:40

Tgt Ion:173 Resp: 98  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.7 74.1#  
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS038-190114

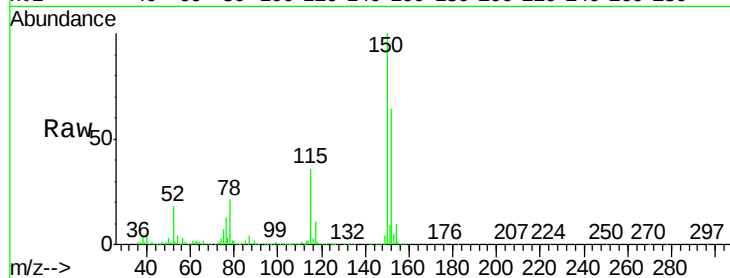
Tot Ion:152 Resp: 399131

Ion Ratio Lower Upper

152 100

115 54.7 39.1 117.2

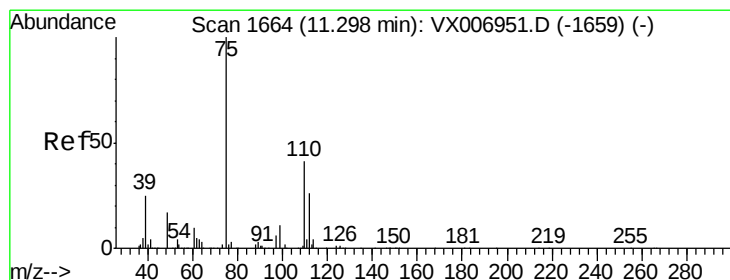
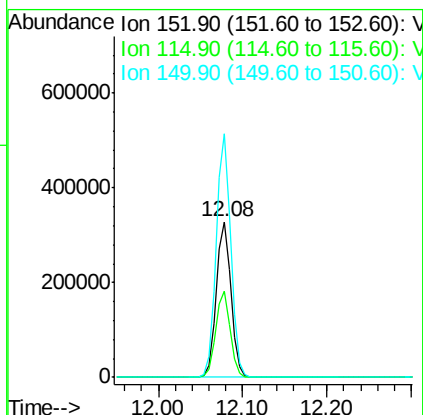
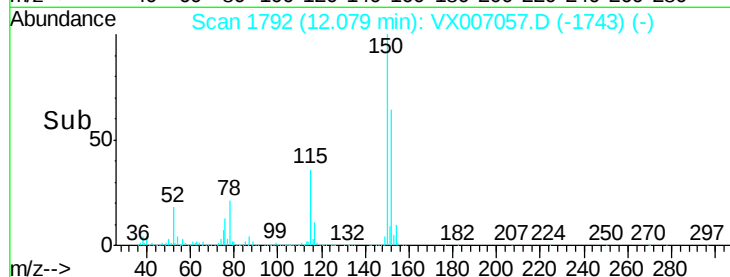
150 154.7 0.0 344.8



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: 22.241 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007057.D

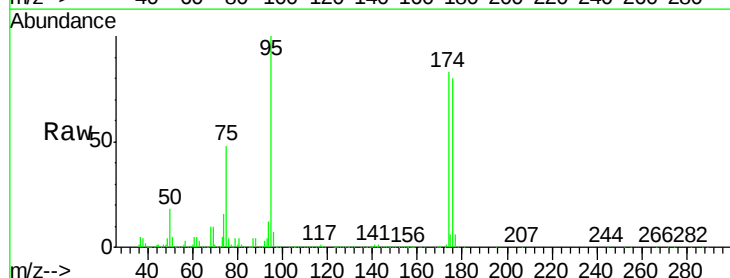
Acq: 15 Jan 2019 14:40

Tgt Ion: 75 Resp: 179888

Ion Ratio Lower Upper

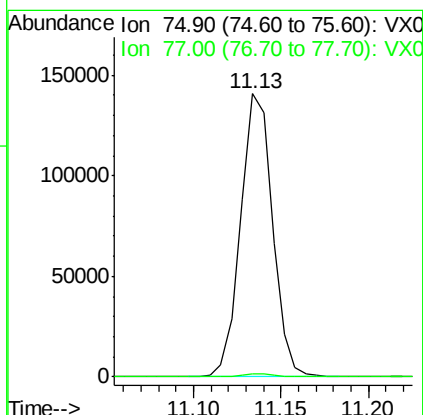
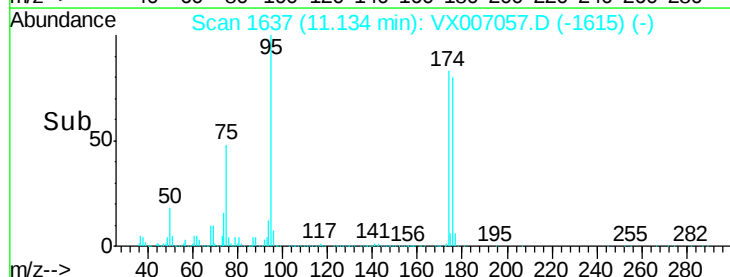
75 100

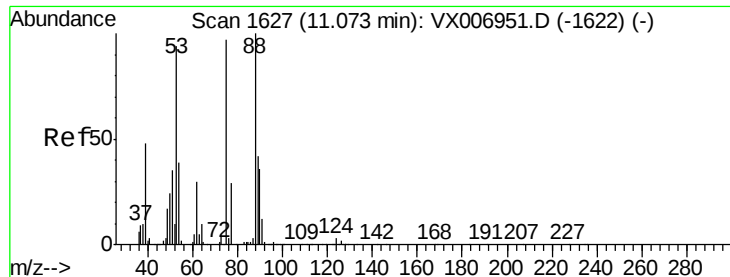
77 1.2 18.5 55.5#



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: 65.824 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007057.D

Acq: 15 Jan 2019 14:40

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS038-190114

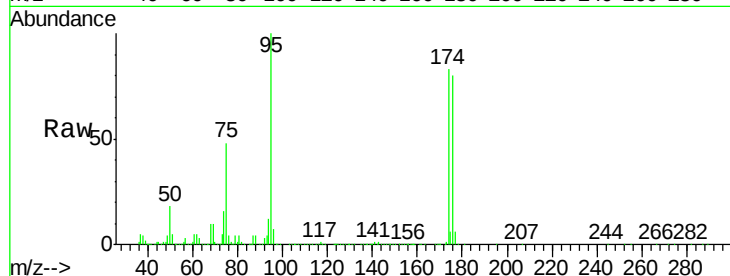
Tot Ion: 75 Resp: 179888

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

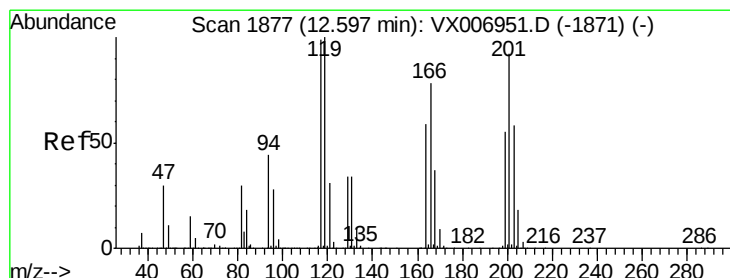
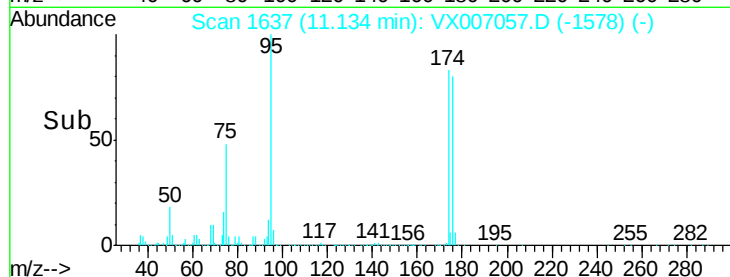
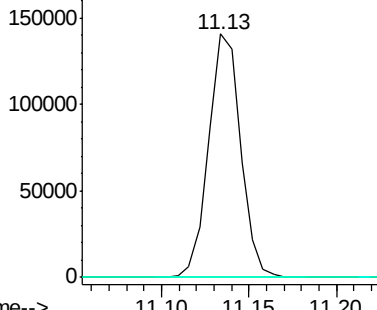
89 0.0 38.0 57.0#



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



#90

Hexachloroethane

Concen: 2.961 ug/l

RT: 12.57 min Scan# 1873

Delta R.T. -0.02 min

Lab File: VX007057.D

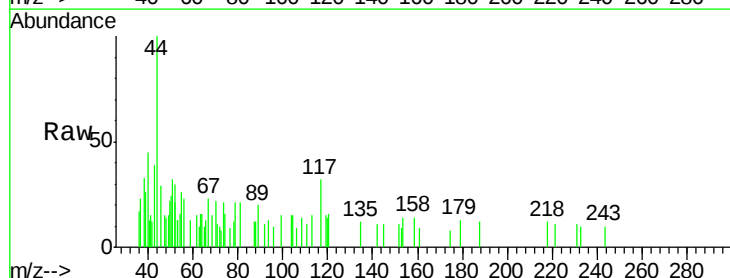
Acq: 15 Jan 2019 14:40

Tgt Ion: 117 Resp: 223

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

