

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
 Data File : VX016603.D  
 Acq On : 05 Jun 2020 12:08  
 Operator : JC/SP  
 Sample : L2922-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-5

Quant Time: Jun 06 05:59:16 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  | 231668   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 365392   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 371945   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 185371   | 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   | 136436   | 47.42 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.84%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 109150   | 48.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.02%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 455743   | 52.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.08% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 182256   | 53.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.72% |          |

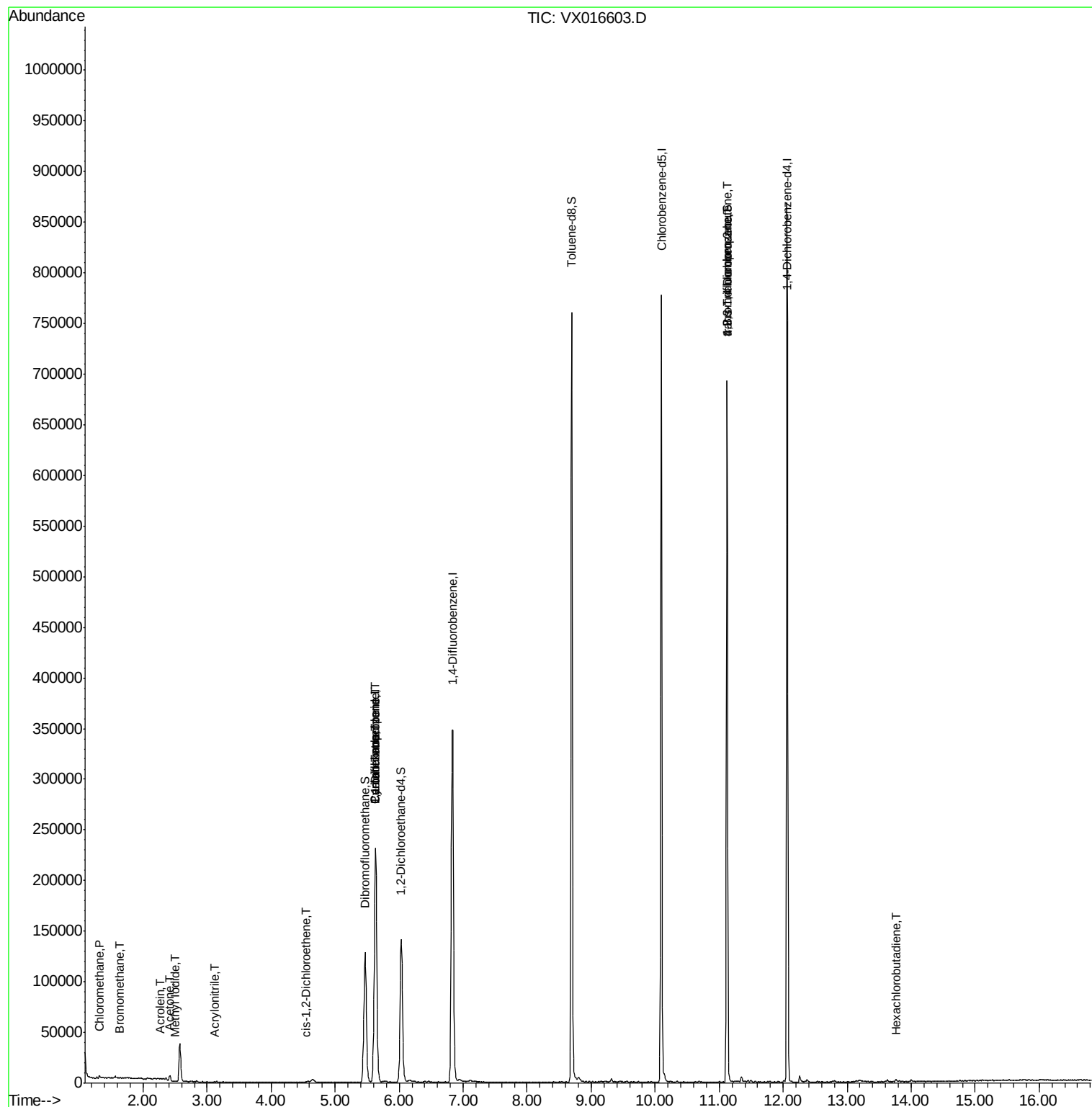
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1453     | 0.53  | ug/l   | 94     |
| 5) Bromomethane                | 1.64  | 94   | 368      | 0.26  | ug/l   | 81     |
| 10) Methyl Iodide              | 2.50  | 142  | 343      | 3.18  | ug/l # | 70     |
| 13) Acrolein                   | 2.27  | 56   | 326      | 1.04  | ug/l # | 19     |
| 15) Acrylonitrile              | 3.11  | 53   | 344      | 0.23  | ug/l   | 87     |
| 16) Acetone                    | 2.42  | 43   | 5719     | 4.54  | ug/l   | 97     |
| 27) cis-1,2-Dichloroethene     | 4.55  | 96   | 777      | 0.27  | ug/l # | 1      |
| 31) Cyclohexane                | 5.62  | 56   | 4149     | 1.04  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 16267    | 4.70  | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.62  | 117  | 21544    | 5.93  | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 87871    | 21.57 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 87871    | 53.05 | ug/l # | 14     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 340      | 0.23  | ug/l   | 80     |

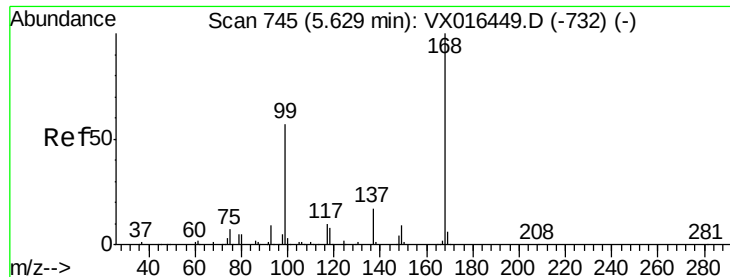
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
Data File : VX016603.D  
Acq On : 05 Jun 2020 12:08  
Operator : JC/SP  
Sample : L2922-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-5

Quant Time: Jun 06 05:59:16 2020  
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: VX016603.D

Acq: 05 Jun 2020 12:08

Instrument :

MSVOA\_X

ClientSampleId :

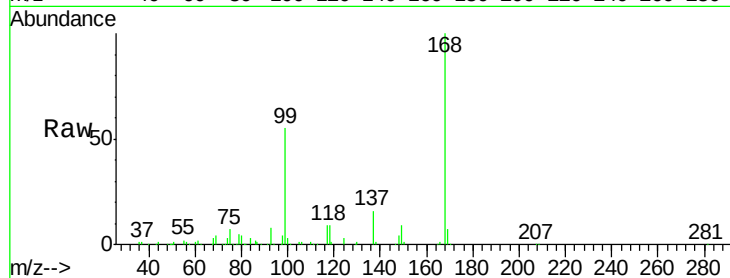
STORAGE-BLANK-SOIL-REF-5

Tgt Ion:168 Resp: 231668

Ion Ratio Lower Upper

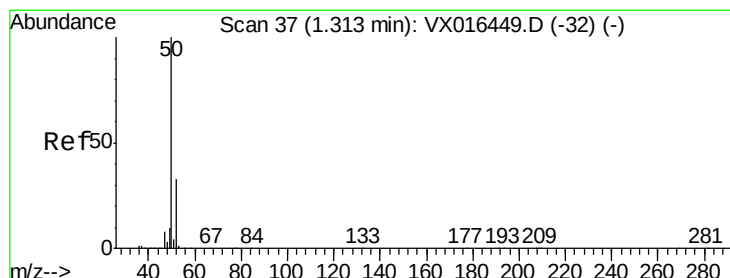
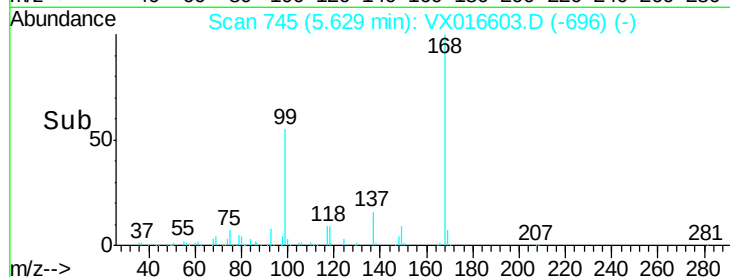
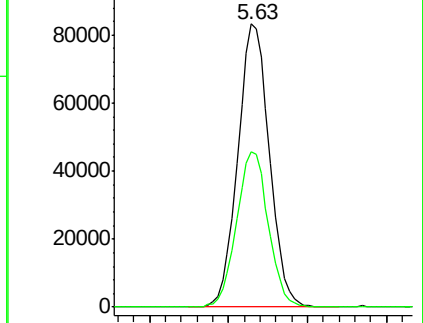
168 100

99 54.7 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: 0.53 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016603.D

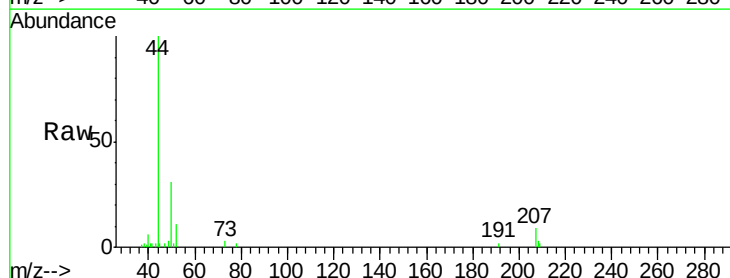
Acq: 05 Jun 2020 12:08

Tgt Ion: 50 Resp: 1453

Ion Ratio Lower Upper

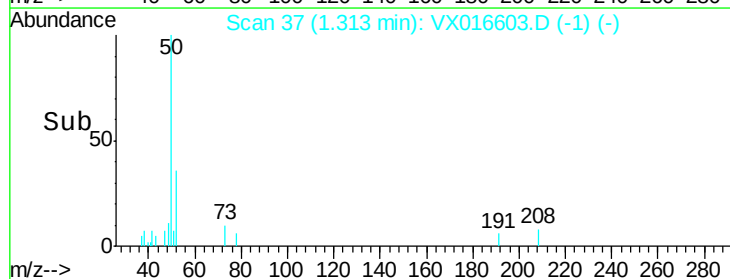
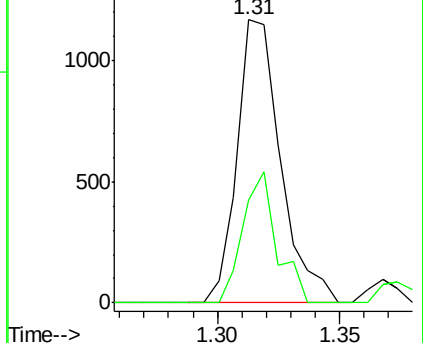
50 100

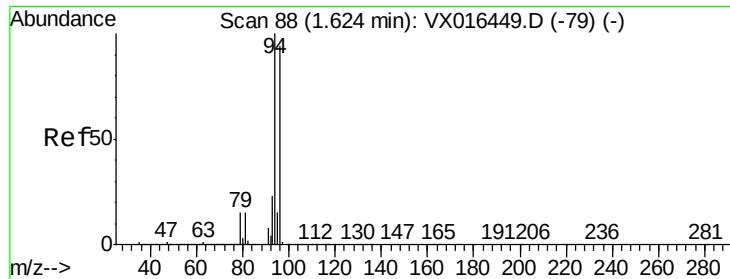
52 36.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.26 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

Instrument :

MSVOA\_X

ClientSampleId :

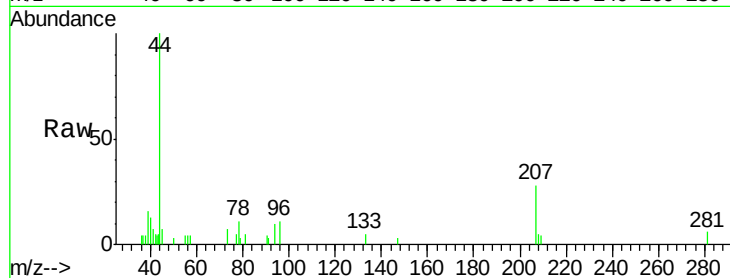
STORAGE-BLANK-SOIL-REF-5

Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 112.3 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

50

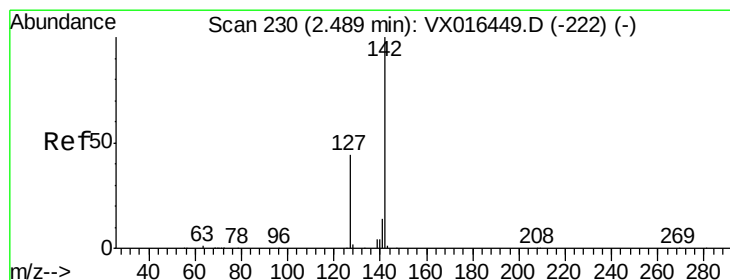
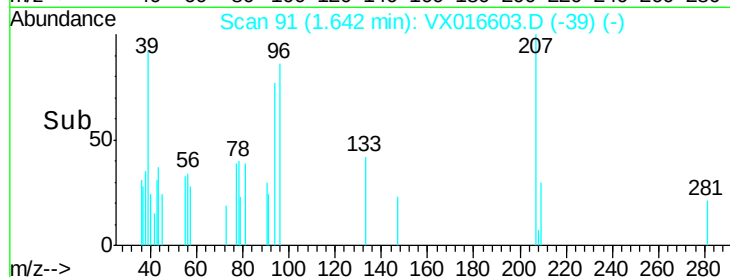
0

1.60

1.65

1.64

Time-->



#10

Methyl Iodide

Concen: 3.18 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

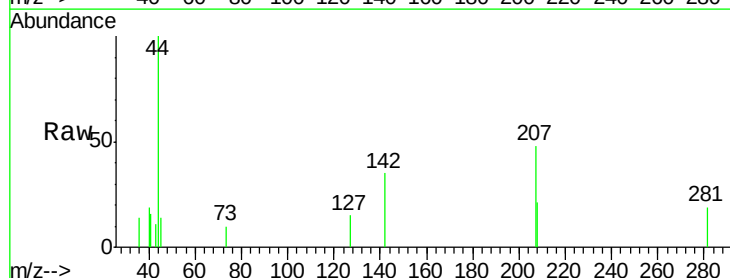
Tgt Ion: 142 Resp: 343

Ion Ratio Lower Upper

142 100

127 25.7 35.3 52.9#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

50

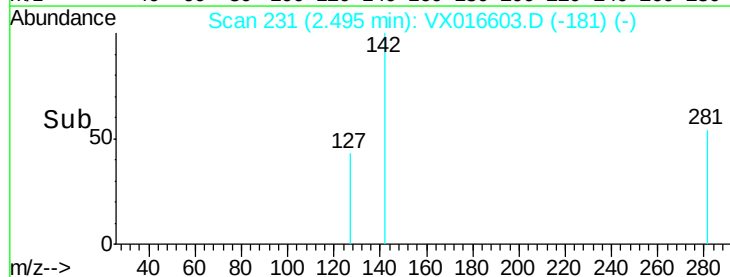
0

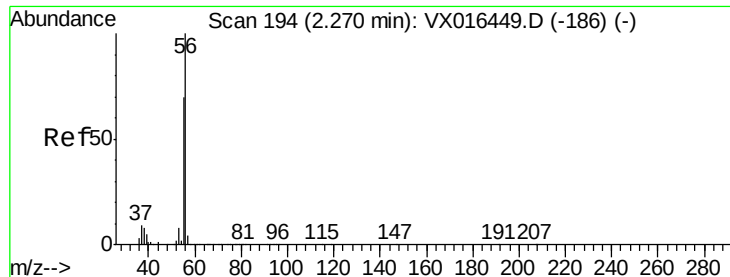
2.45

2.50

2.55

Time-->





#13

Acrolein

Concen: 1.04 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

Instrument :

MSVOA\_X

ClientSampleId :

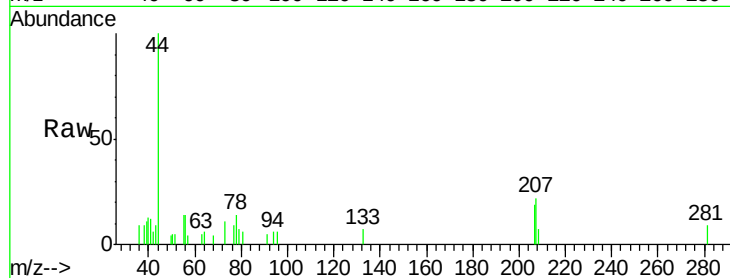
STORAGE-BLANK-SOIL-REF-5

Tgt Ion: 56 Resp: 326

Ion Ratio Lower Upper

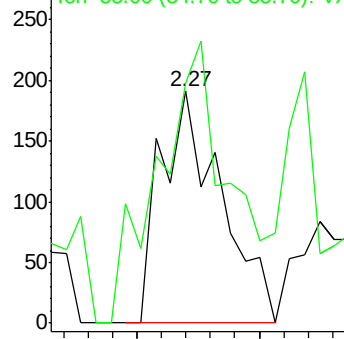
56 100

55 140.8 58.3 87.5#

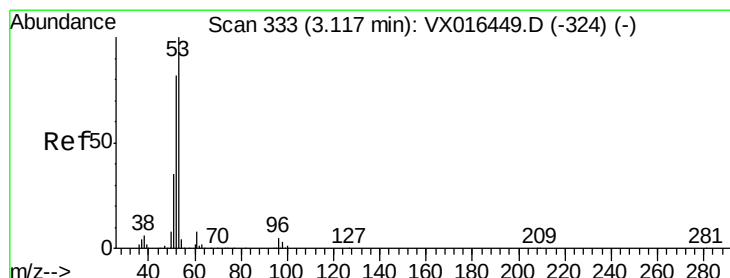
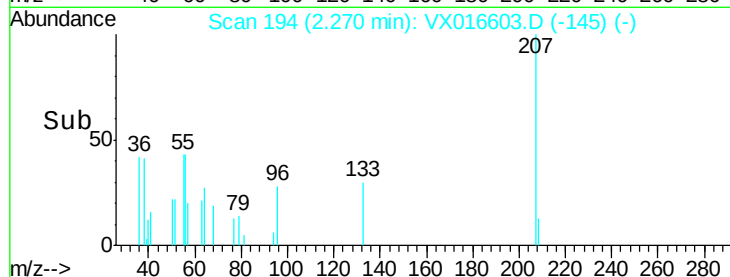


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.11 min Scan# 332

Delta R.T. -0.01 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

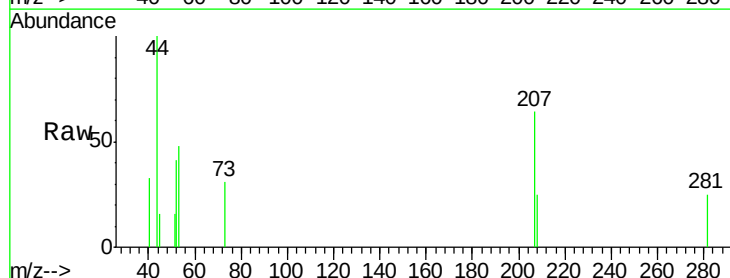
Tgt Ion: 53 Resp: 344

Ion Ratio Lower Upper

53 100

52 68.3 66.7 100.1

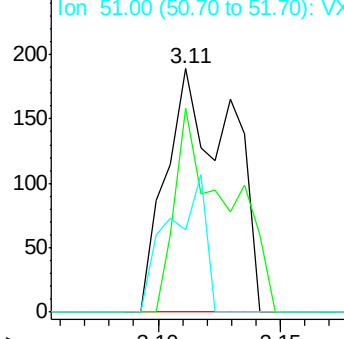
51 32.3 28.6 43.0



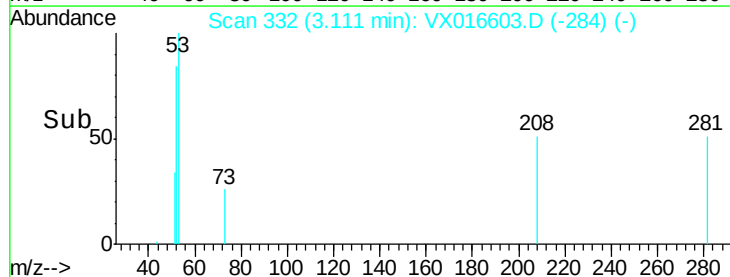
Abundance Ion 53.00 (52.70 to 53.70): VX0

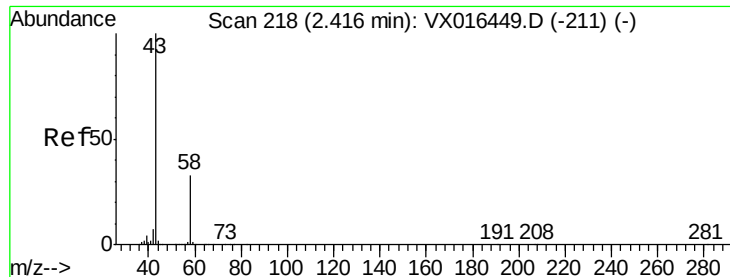
Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



Time-->





#16

Acetone

Concen: 4.54 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

Instrument :

MSVOA\_X

ClientSampleId :

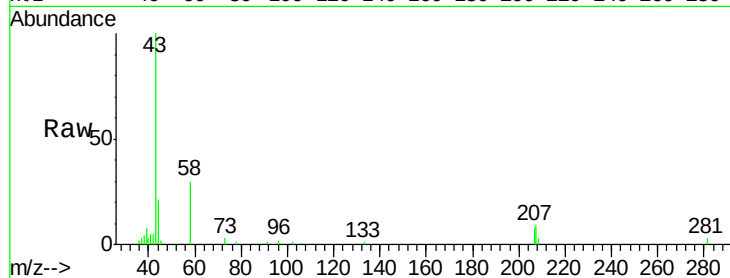
STORAGE-BLANK-SOIL-REF-5

Tgt Ion: 43 Resp: 5719

Ion Ratio Lower Upper

43 100

58 30.7 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

4000

3000

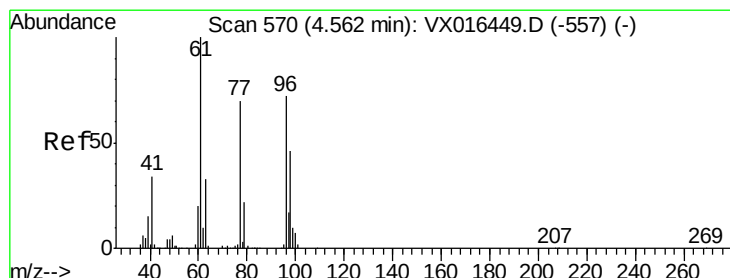
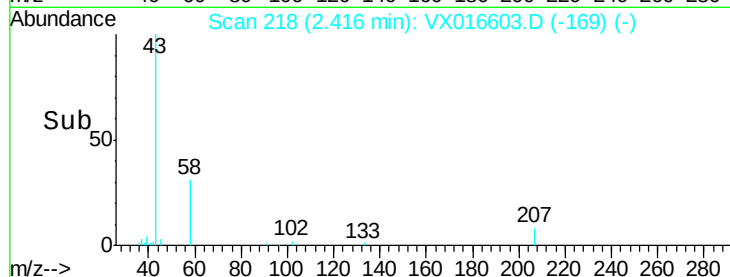
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#27

cis-1,2-Dichloroethene

Concen: 0.27 ug/l

RT: 4.55 min Scan# 568

Delta R.T. -0.01 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

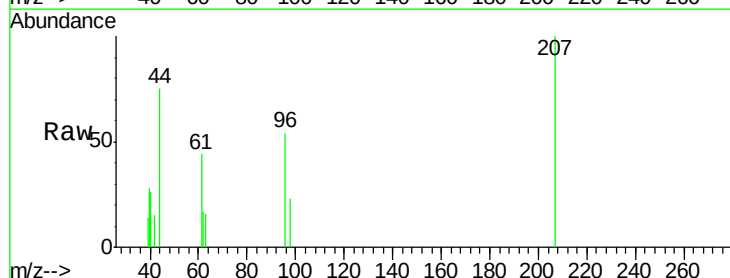
Tgt Ion: 96 Resp: 777

Ion Ratio Lower Upper

96 100

61 0.0 0.0 284.6

98 0.0 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

4.55

300

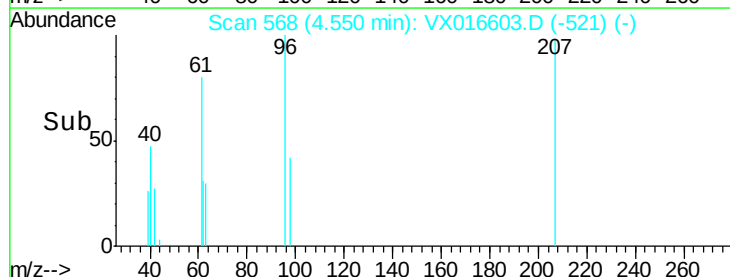
200

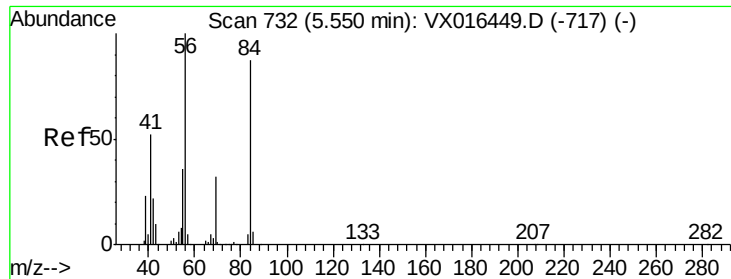
100

0

Time-->

4.50 4.55 4.60 4.65

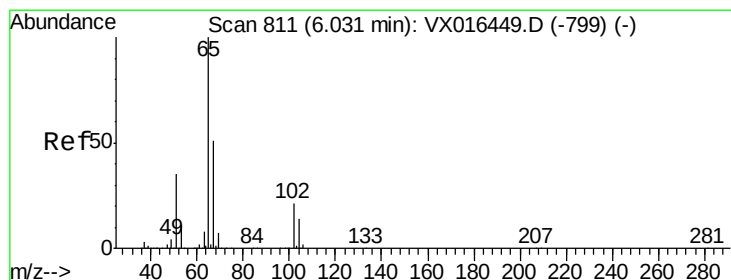
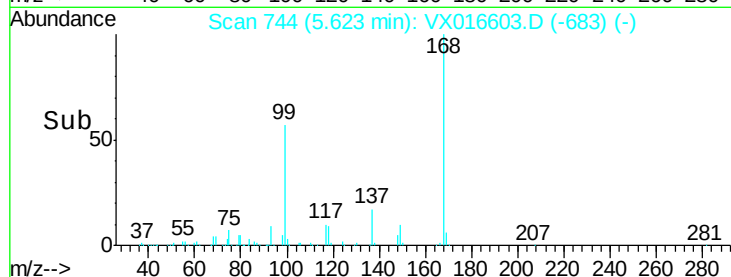
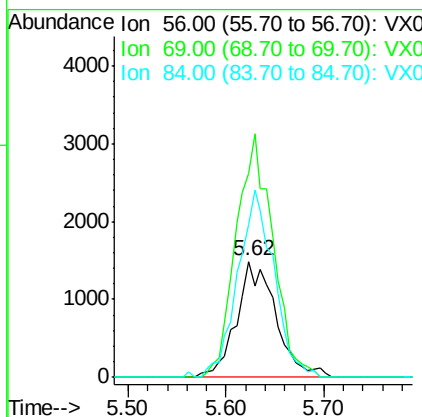
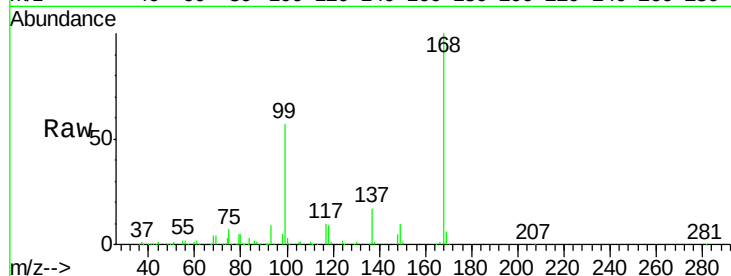




#31  
Cyclohexane  
Concen: 1.04 ug/l  
RT: 5.62 min Scan# 744  
Delta R.T. 0.07 min  
Lab File: VX016603.D  
Acq: 05 Jun 2020 12:08

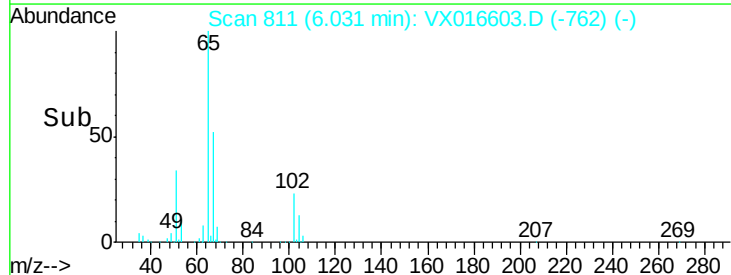
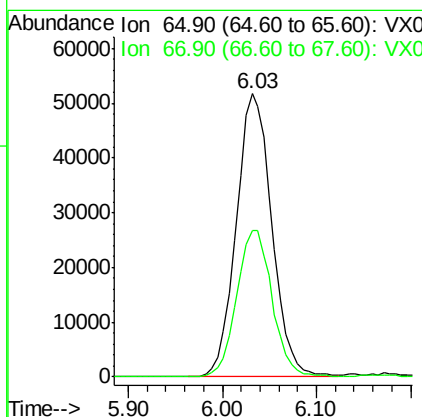
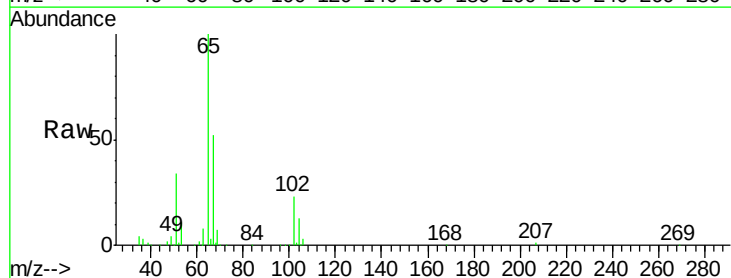
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-5

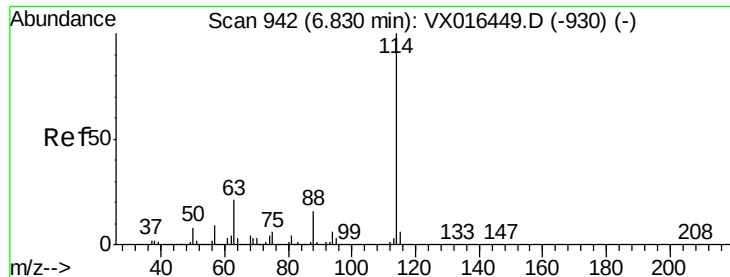
Tgt Ion: 56 Resp: 4149  
Ion Ratio Lower Upper  
56 100  
69 175.3 25.7 38.5#  
84 131.8 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 47.42 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX016603.D  
Acq: 05 Jun 2020 12:08

Tgt Ion: 65 Resp: 136436  
Ion Ratio Lower Upper  
65 100  
67 51.8 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: VX016603.D

Acq: 05 Jun 2020 12:08

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-5

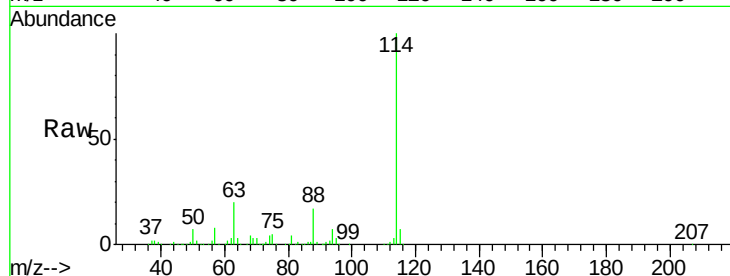
Tgt Ion:114 Resp: 365392

Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.6

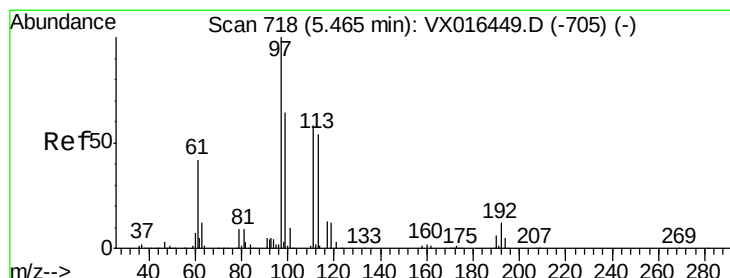
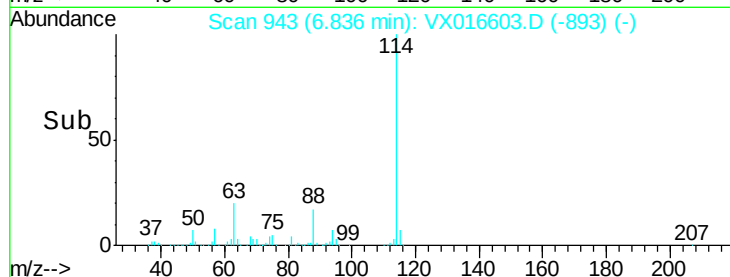
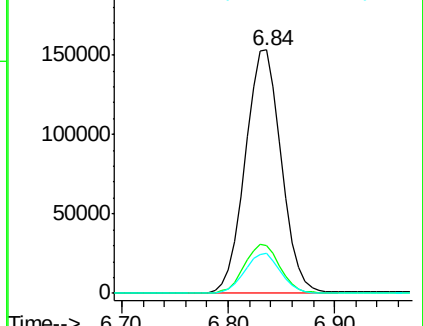
88 16.7 0.0 32.8



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: 48.51 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016603.D

Acq: 05 Jun 2020 12:08

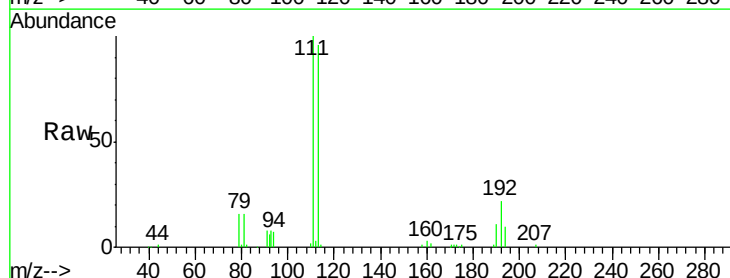
Tgt Ion:113 Resp: 109150

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.6

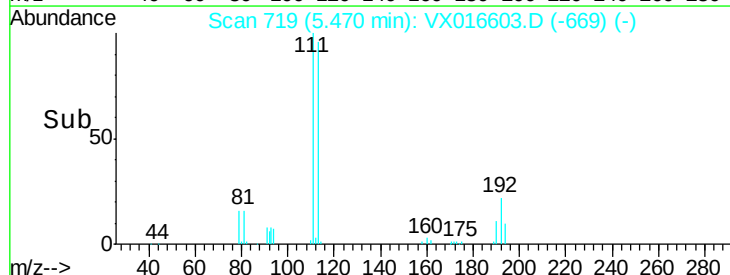
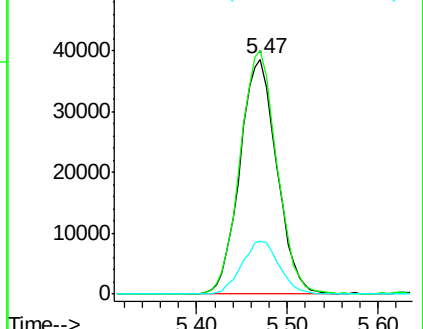
192 22.8 17.7 26.5



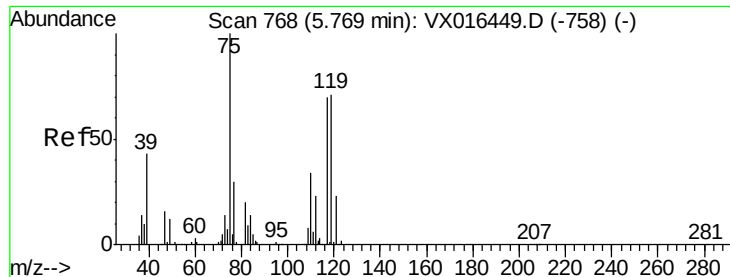
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



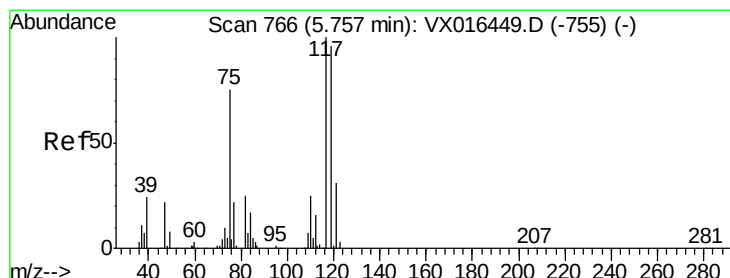
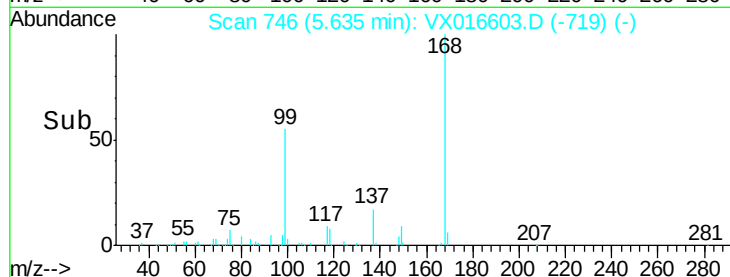
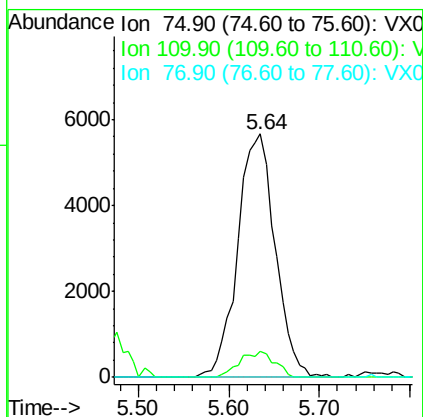
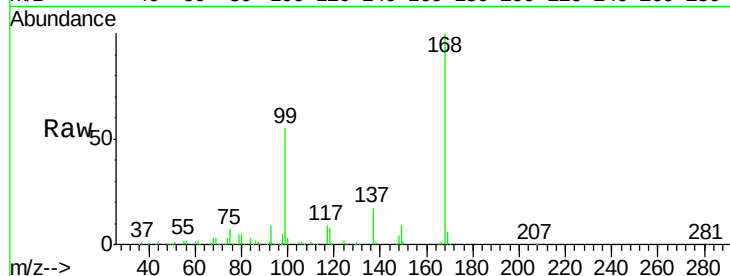




#36  
 1,1-Dichloropropene  
 Concen: 4.70 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.13 min  
 Lab File: VX016603.D  
 Acq: 05 Jun 2020 12:08

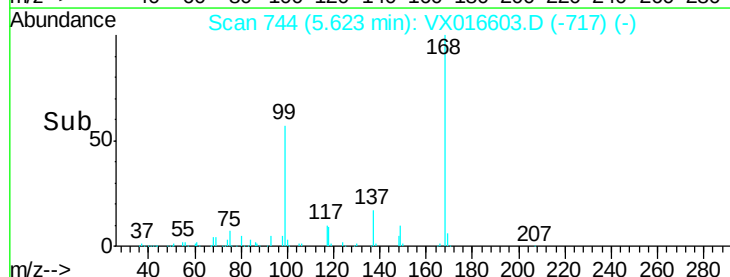
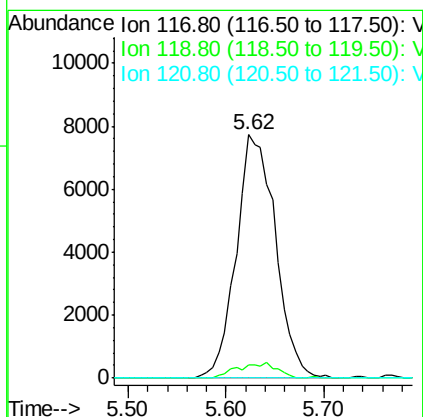
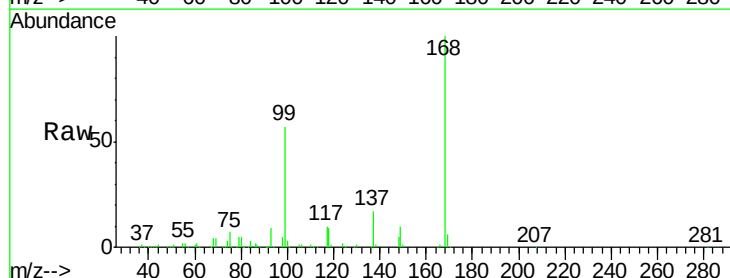
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-5

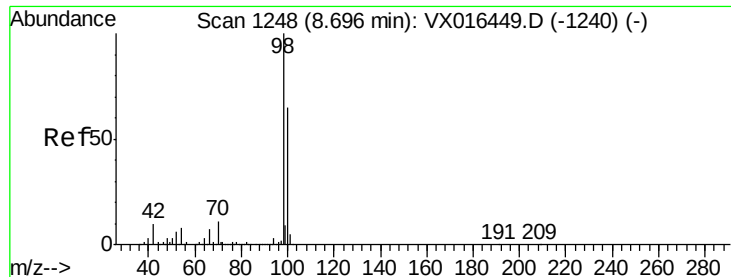
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.9   | 17.4  | 52.3# |
| 77      | 0.0   | 24.2  | 36.4# |



#38  
 Carbon Tetrachloride  
 Concen: 5.93 ug/l  
 RT: 5.62 min Scan# 744  
 Delta R.T. -0.13 min  
 Lab File: VX016603.D  
 Acq: 05 Jun 2020 12:08

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.3   | 76.3  | 114.5# |
| 121     | 0.0   | 24.6  | 37.0#  |

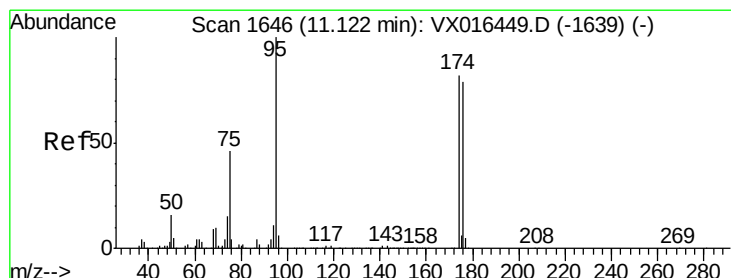
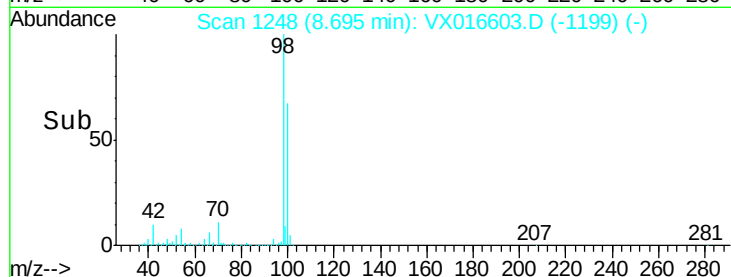
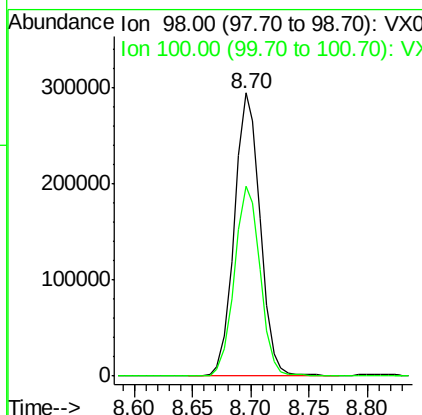
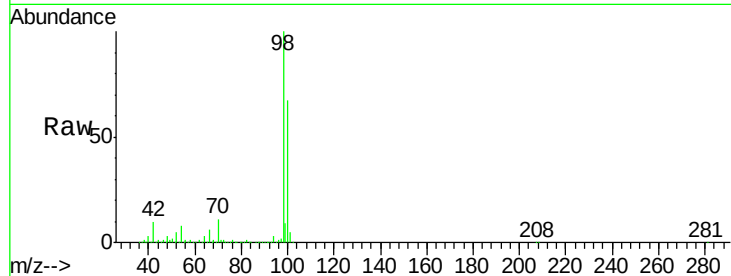




#50  
Toluene-d8  
Concen: 52.04 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX016603.D  
Acq: 05 Jun 2020 12:08

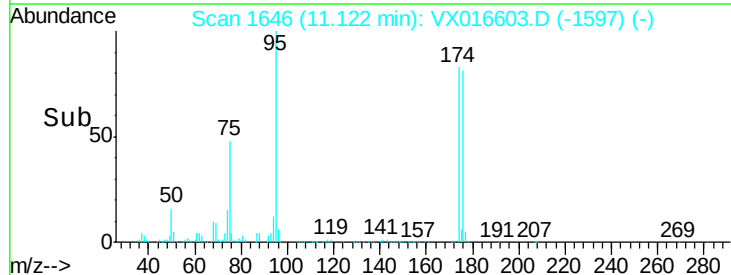
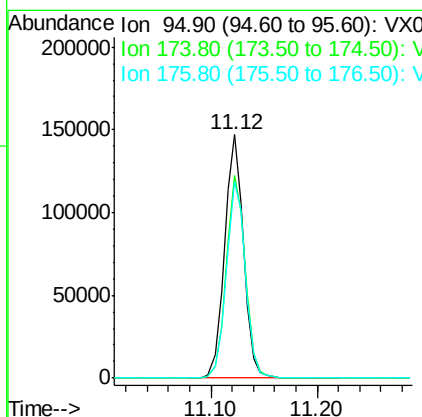
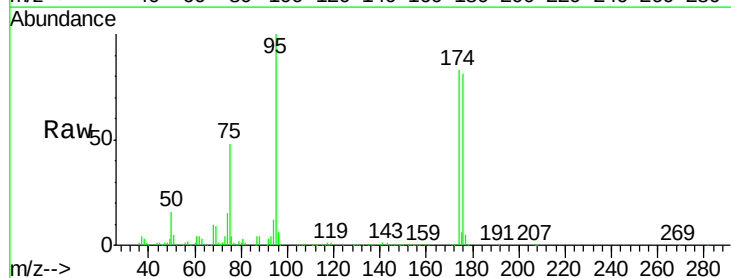
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-5

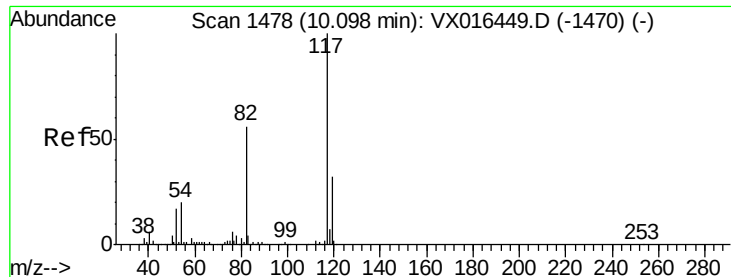
Tgt Ion: 98 Resp: 455743  
Ion Ratio Lower Upper  
98 100  
100 67.1 53.8 80.6



#62  
4-Bromofluorobenzene  
Concen: 53.86 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX016603.D  
Acq: 05 Jun 2020 12:08

Tgt Ion: 95 Resp: 182256  
Ion Ratio Lower Upper  
95 100  
174 84.3 0.0 163.0  
176 81.5 0.0 156.8

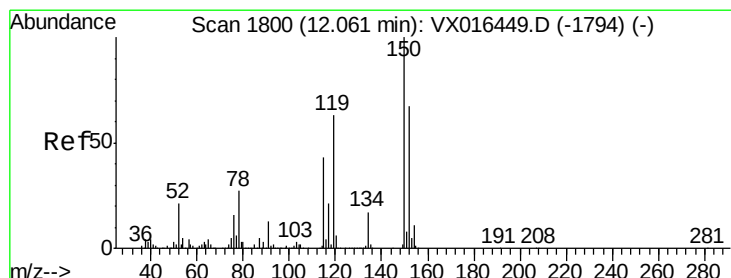
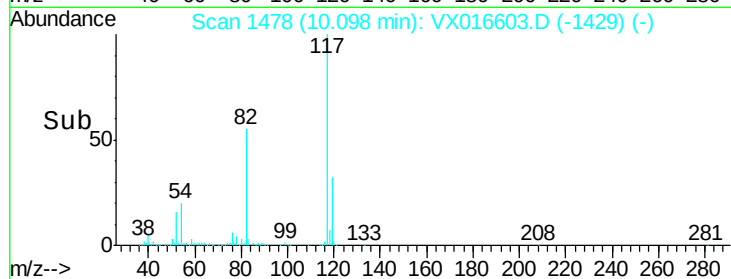
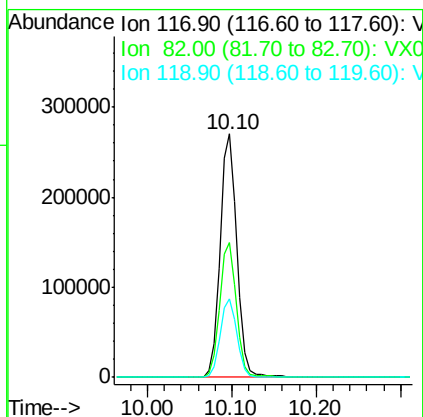
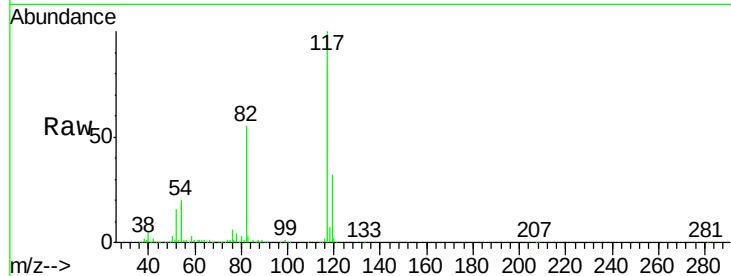




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016603.D  
Acq: 05 Jun 2020 12:08

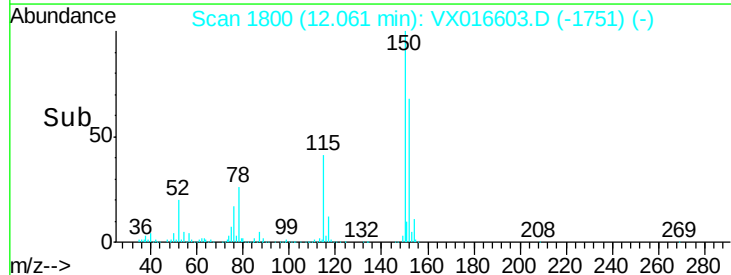
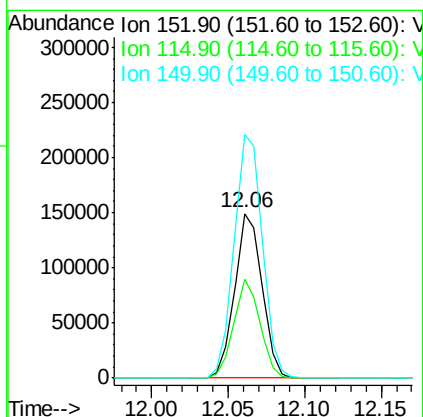
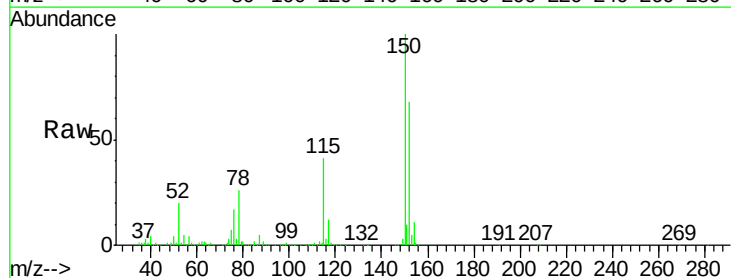
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-5

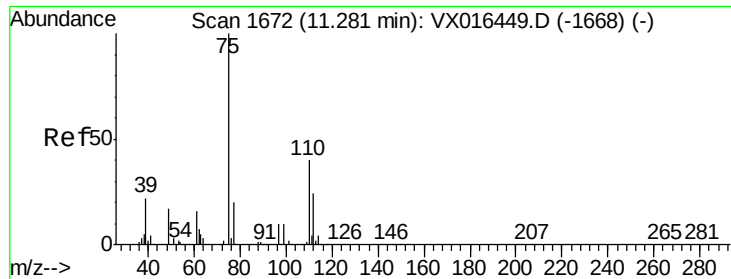
Tgt Ion:117 Resp: 371945  
Ion Ratio Lower Upper  
117 100  
82 55.2 45.0 67.6  
119 32.5 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016603.D  
Acq: 05 Jun 2020 12:08

Tgt Ion:152 Resp: 185371  
Ion Ratio Lower Upper  
152 100  
115 57.8 39.9 119.6  
150 152.8 0.0 341.0

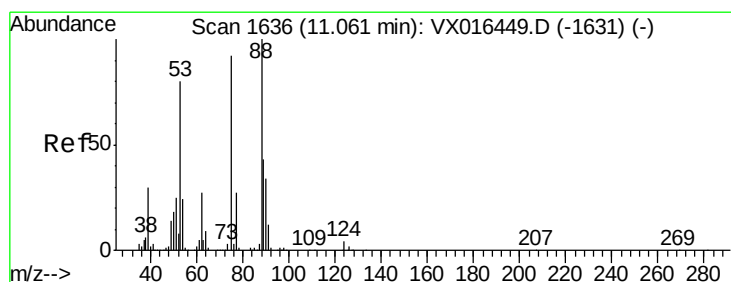
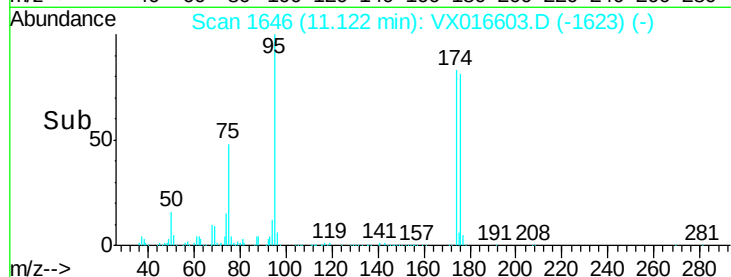
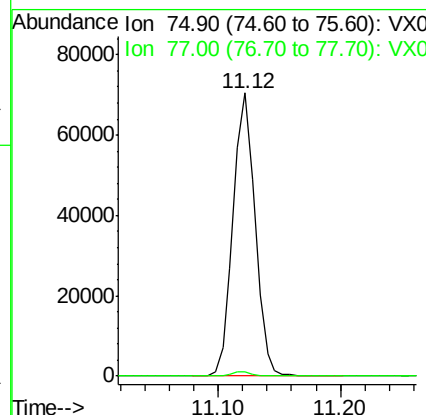
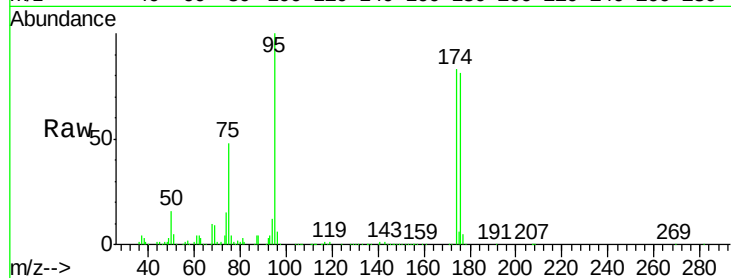




#76  
 1,2,3-Trichloropropane  
 Concen: 21.57 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. -0.16 min  
 Lab File: VX016603.D  
 Acq: 05 Jun 2020 12:08

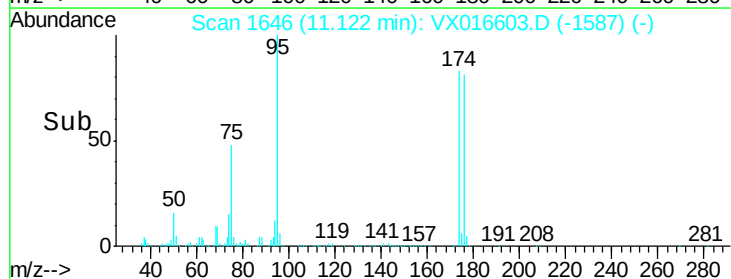
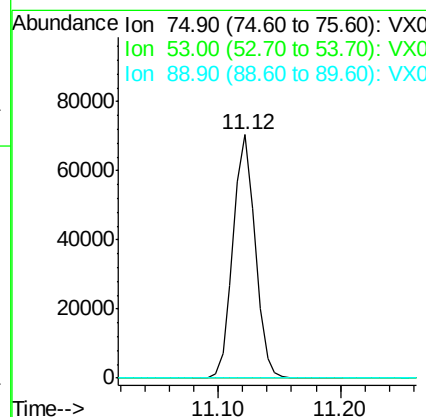
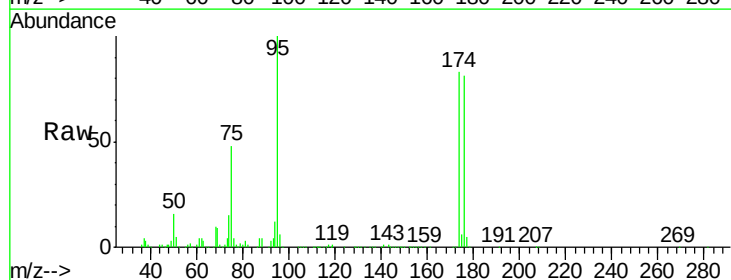
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-5

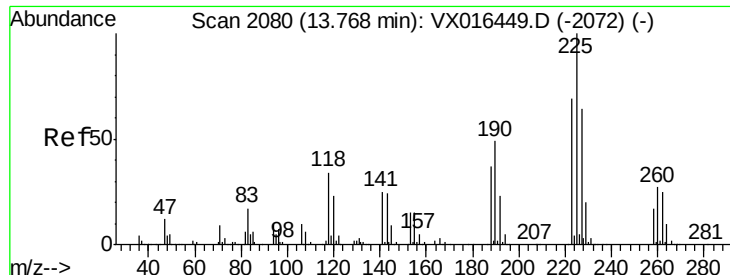
Tgt Ion: 75 Resp: 87871  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 21.3 63.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 53.05 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. 0.06 min  
 Lab File: VX016603.D  
 Acq: 05 Jun 2020 12:08

Tgt Ion: 75 Resp: 87871  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 71.3 106.9#  
 89 0.0 36.6 55.0#





#94

Hexachlorobutadiene

Concen: 0.23 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX016603.D

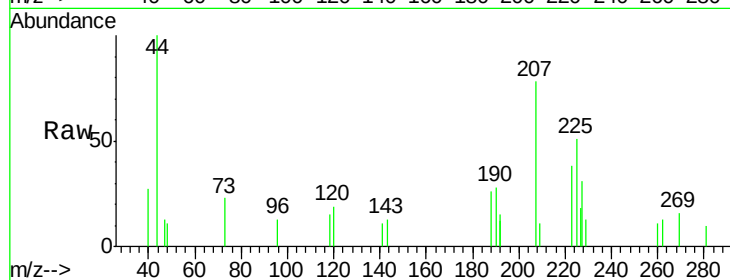
Acq: 05 Jun 2020 12:08

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-5



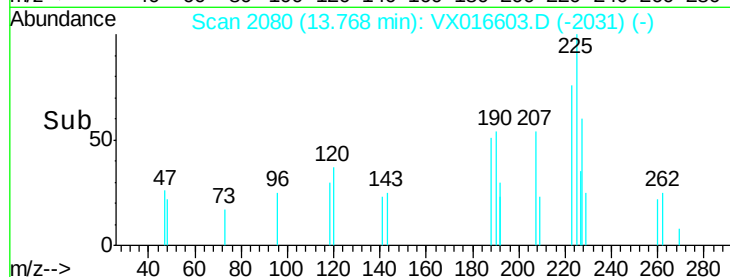
Tgt Ion:225 Resp: 340

Ion Ratio Lower Upper

225 100

223 81.5 32.3 96.8

227 77.9 31.6 94.7



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

