

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
 Data File : VX016604.D  
 Acq On : 05 Jun 2020 12:31  
 Operator : JC/SP  
 Sample : L2922-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-4

Quant Time: Jun 06 05:59:27 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      | 5.64  | 168  | 230555   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 363223   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 365436   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 184207   | 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   | 135319   | 47.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.52%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 107970   | 48.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.56%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 450637   | 51.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.54% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 180043   | 53.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.06% |          |

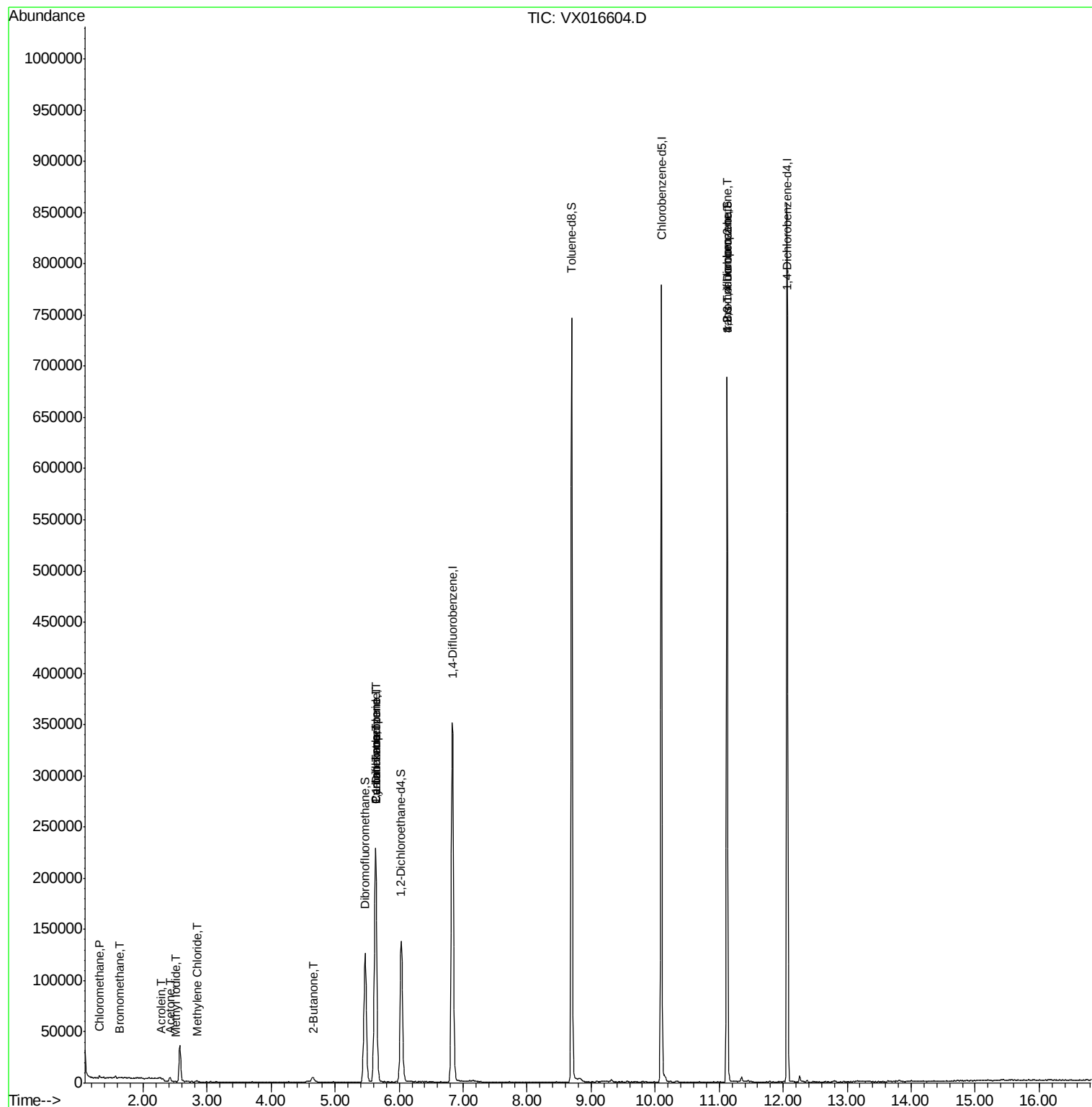
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1327     | 0.48  | ug/l   | 98     |
| 5) Bromomethane                | 1.64  | 94   | 439      | 0.31  | ug/l # | 62     |
| 10) Methyl Iodide              | 2.50  | 142  | 152      | 3.11  | ug/l # | 40     |
| 13) Acrolein                   | 2.28  | 56   | 341      | 1.09  | ug/l   | 98     |
| 16) Acetone                    | 2.42  | 43   | 4429     | 3.53  | ug/l   | 99     |
| 20) Methylene Chloride         | 2.84  | 84   | 636      | 0.25  | ug/l # | 55     |
| 25) 2-Butanone                 | 4.66  | 43   | 609      | 0.29  | ug/l   | 97     |
| 31) Cyclohexane                | 5.63  | 56   | 4020     | 1.01  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 15523    | 4.51  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 21601    | 5.98  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 87960    | 21.72 | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 87960    | 53.44 | ug/l # | 14     |

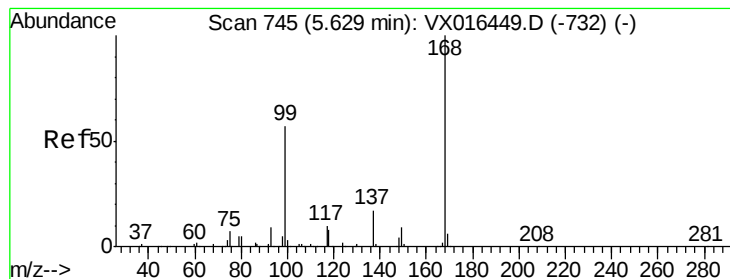
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX060520\  
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ClientSampleId :  
STORAGE-BLANK-SOIL-REF-4

Quant Time: Jun 06 05:59:27 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: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

Instrument :

MSVOA\_X

ClientSampleId :

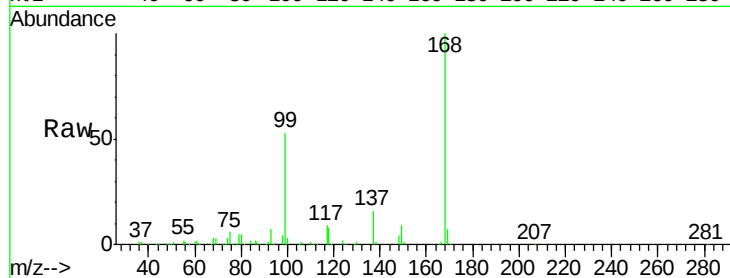
STORAGE-BLANK-SOIL-REF-4

Tgt Ion:168 Resp: 230555

Ion Ratio Lower Upper

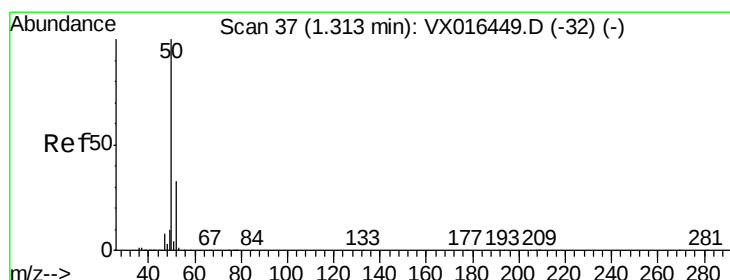
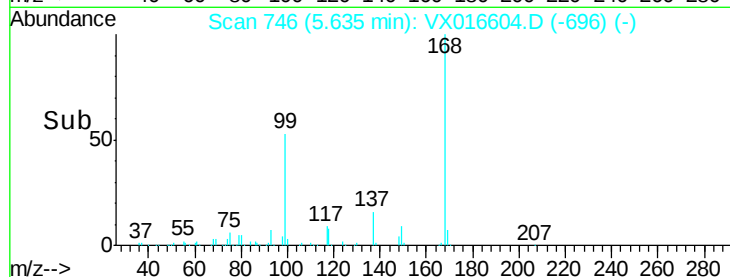
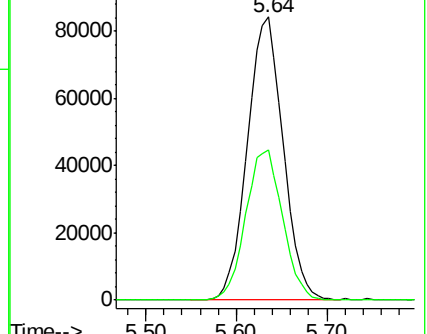
168 100

99 52.9 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: 0.48 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016604.D

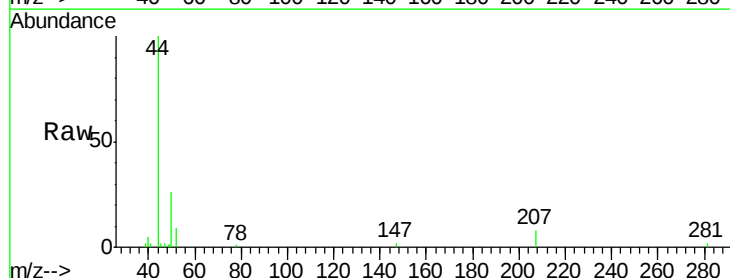
Acq: 05 Jun 2020 12:31

Tgt Ion: 50 Resp: 1327

Ion Ratio Lower Upper

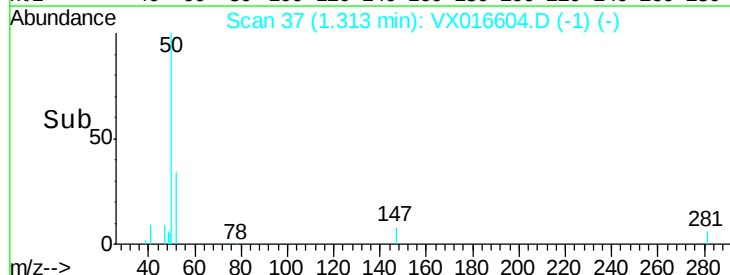
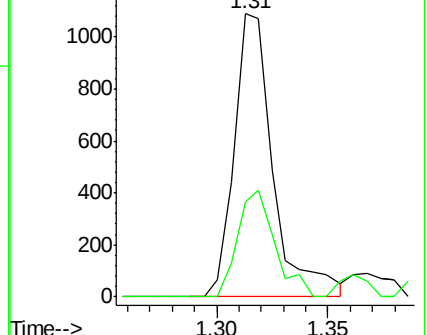
50 100

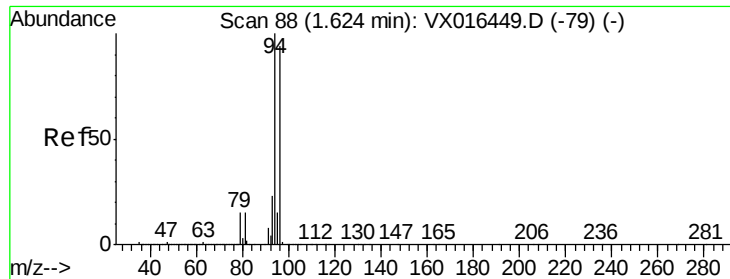
52 33.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.31 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

Instrument :

MSVOA\_X

ClientSampleId :

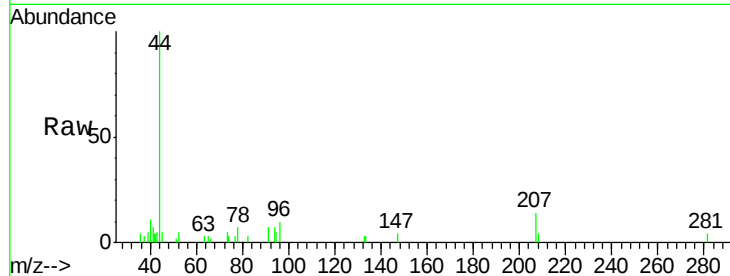
STORAGE-BLANK-SOIL-REF-4

Tgt Ion: 94 Resp: 439

Ion Ratio Lower Upper

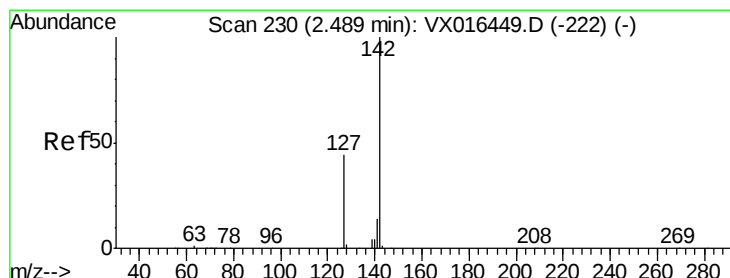
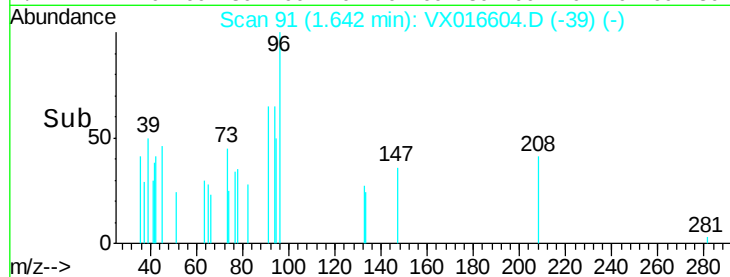
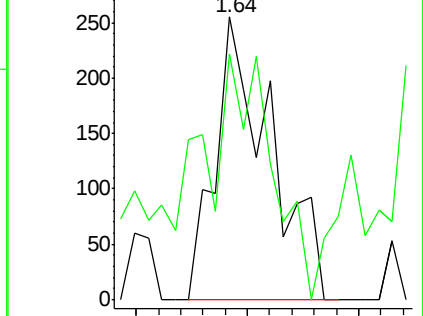
94 100

96 57.6 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 3.11 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

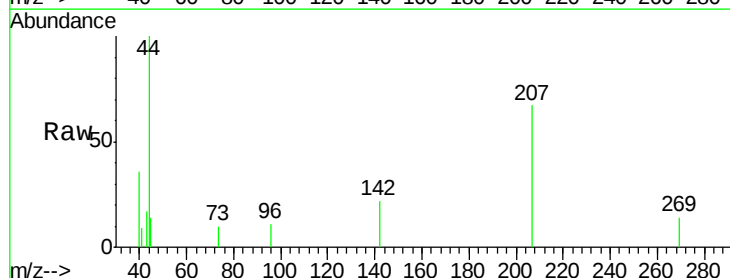
Tgt Ion: 142 Resp: 152

Ion Ratio Lower Upper

142 100

127 0.0 35.3 52.9#

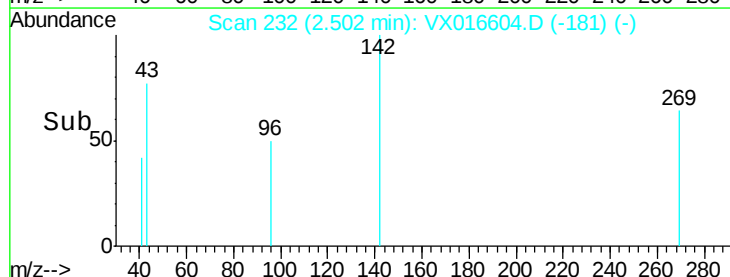
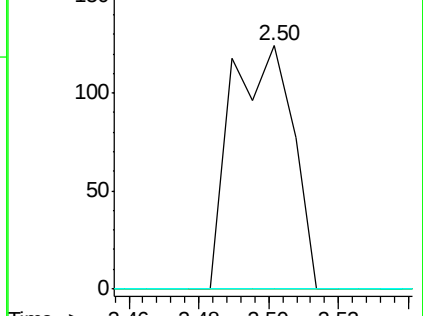
141 0.0 11.4 17.2#

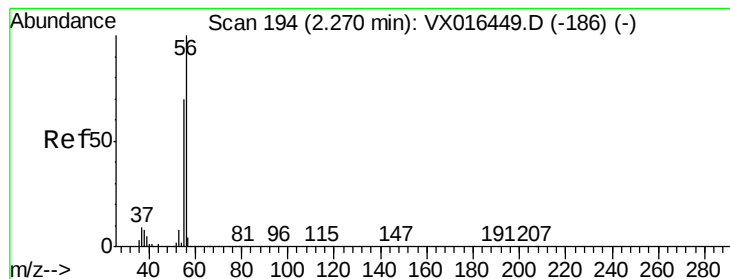


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 1.09 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

Instrument :

MSVOA\_X

ClientSampleId :

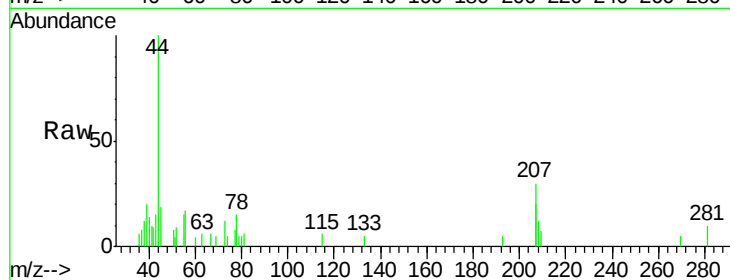
STORAGE-BLANK-SOIL-REF-4

Tgt Ion: 56 Resp: 341

Ion Ratio Lower Upper

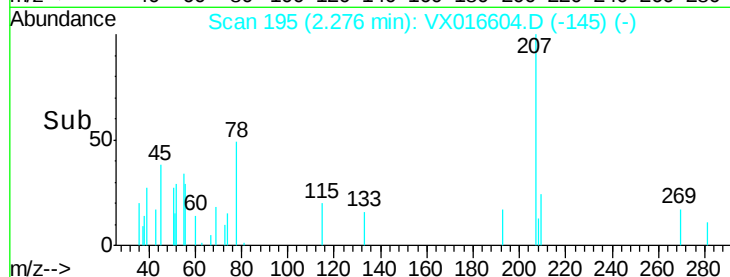
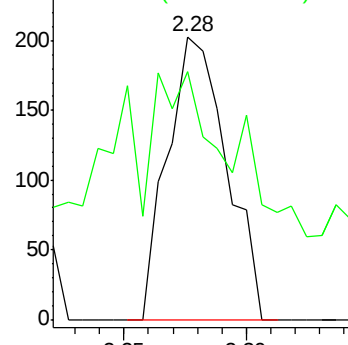
56 100

55 71.0 58.3 87.5

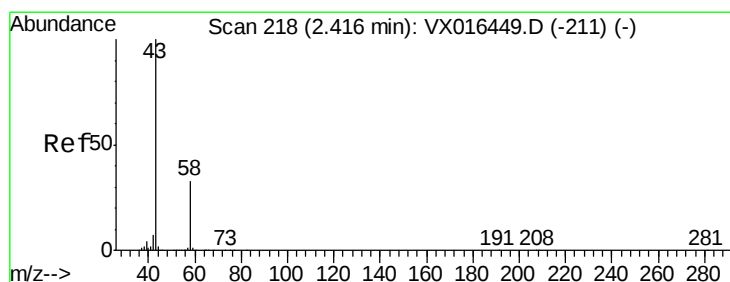


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 3.53 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016604.D

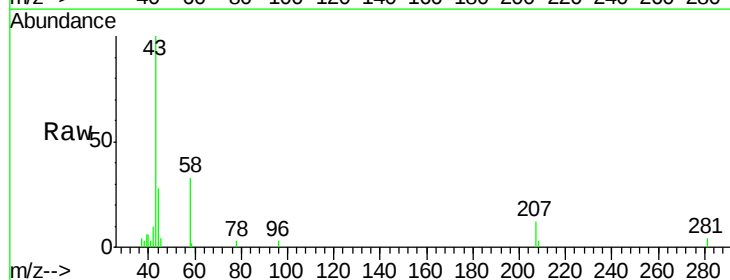
Acq: 05 Jun 2020 12:31

Tgt Ion: 43 Resp: 4429

Ion Ratio Lower Upper

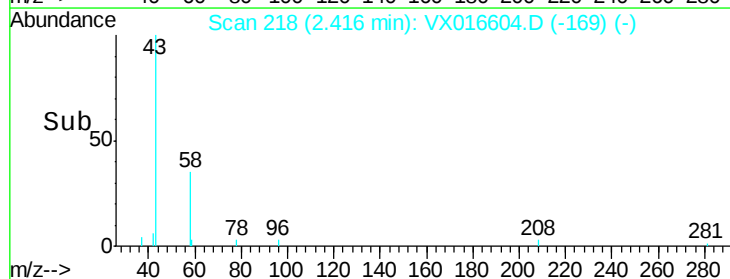
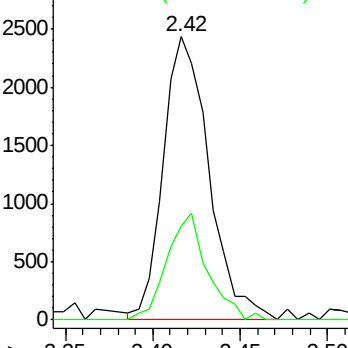
43 100

58 33.0 26.1 39.1

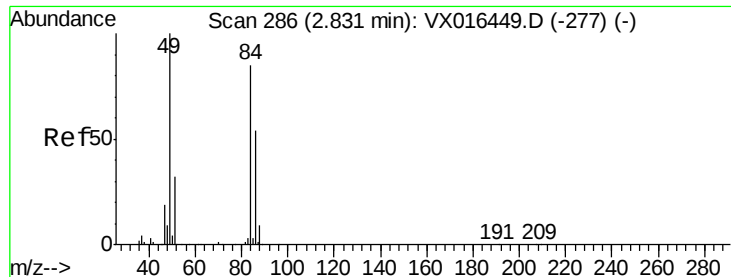


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



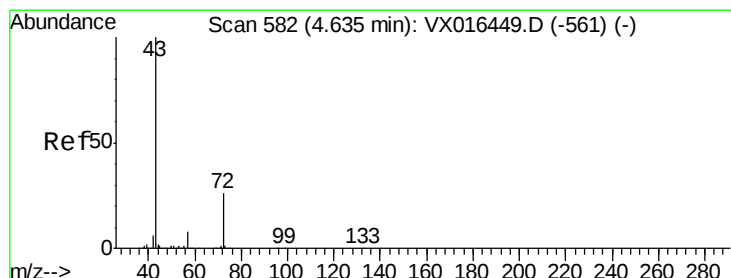
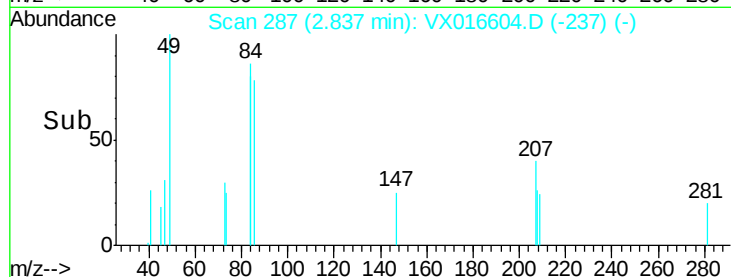
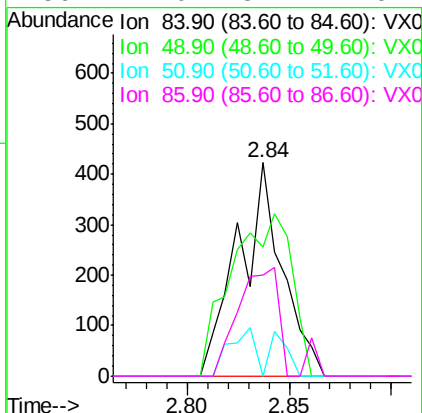
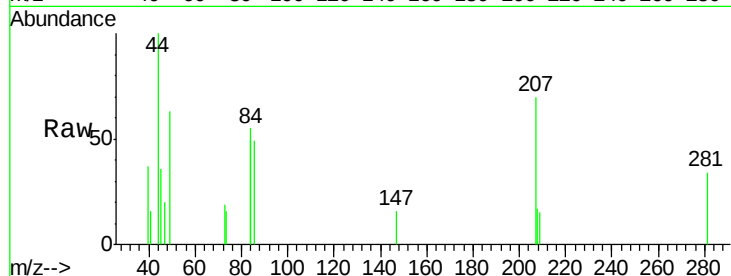
Time-->



#20  
Methylene Chloride  
Concen: 0.25 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. 0.01 min  
Lab File: VX016604.D  
Acq: 05 Jun 2020 12:31

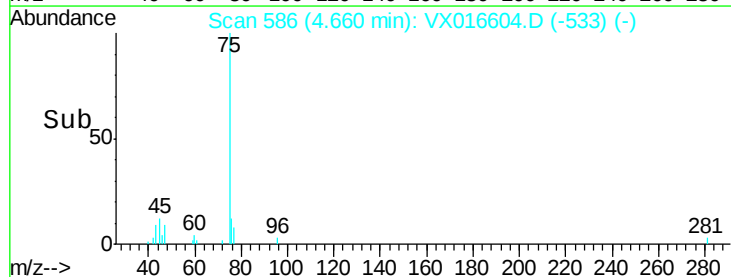
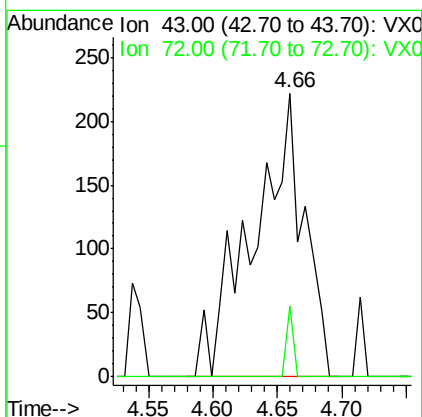
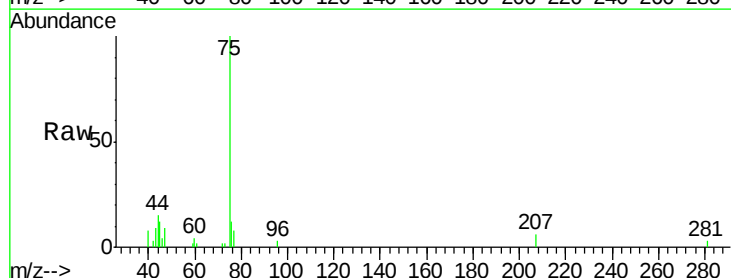
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-4

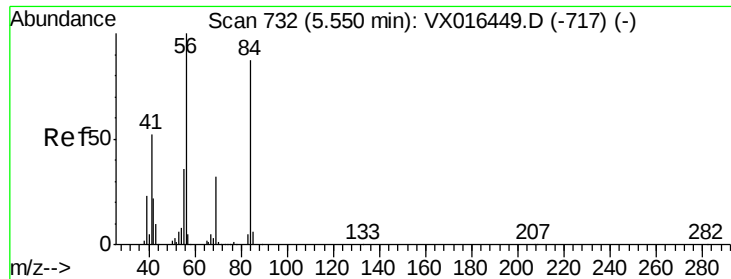
Tgt Ion: 84 Resp: 636  
Ion Ratio Lower Upper  
84 100  
49 60.3 94.5 141.7#  
51 0.0 30.2 45.4#  
86 47.0 51.1 76.7#



#25  
2-Butanone  
Concen: 0.29 ug/l  
RT: 4.66 min Scan# 586  
Delta R.T. 0.02 min  
Lab File: VX016604.D  
Acq: 05 Jun 2020 12:31

Tgt Ion: 43 Resp: 609  
Ion Ratio Lower Upper  
43 100  
72 24.8 21.0 31.6

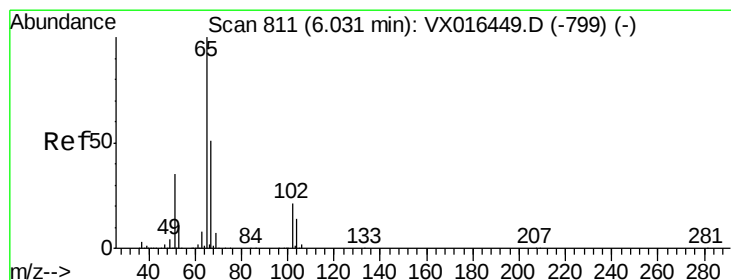
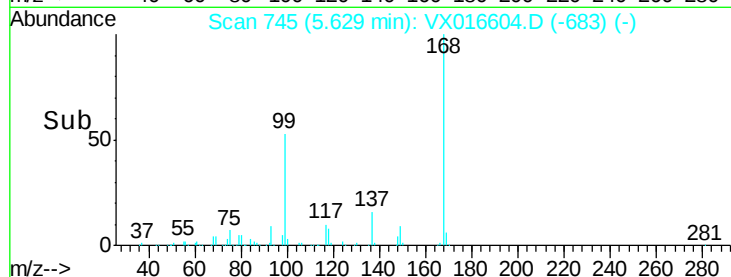
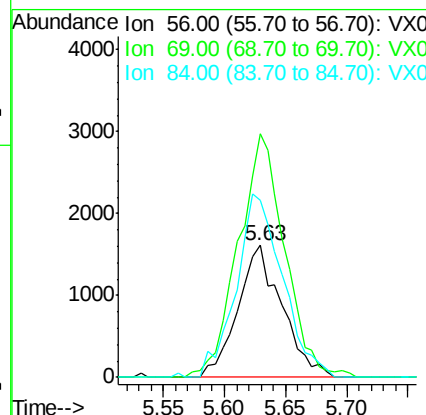
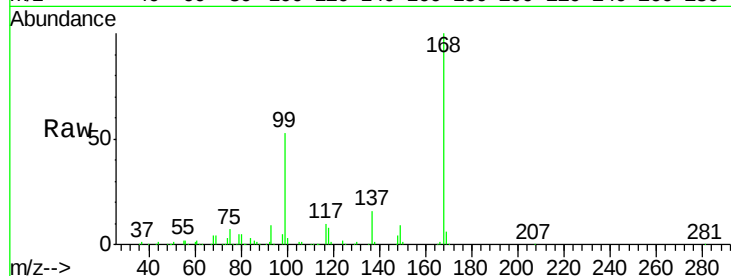




#31  
Cyclohexane  
Concen: 1.01 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016604.D  
Acq: 05 Jun 2020 12:31

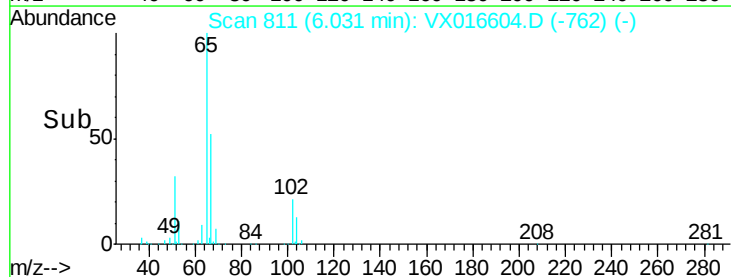
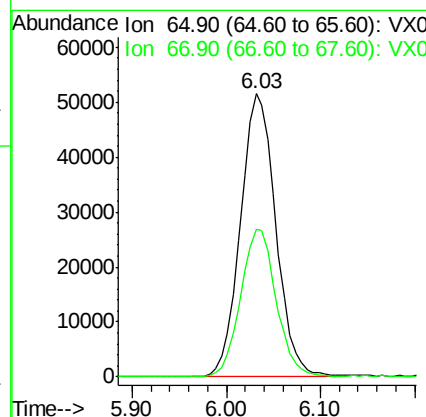
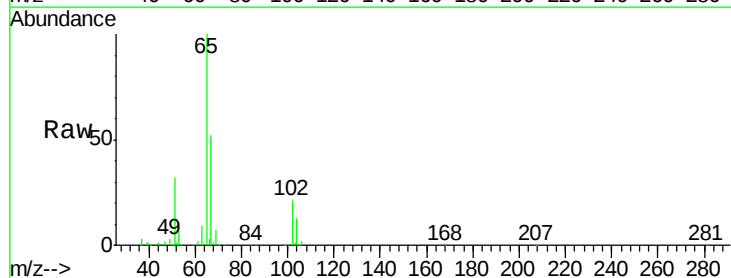
Instrument :  
MSVOA\_X  
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STORAGE-BLANK-SOIL-REF-4

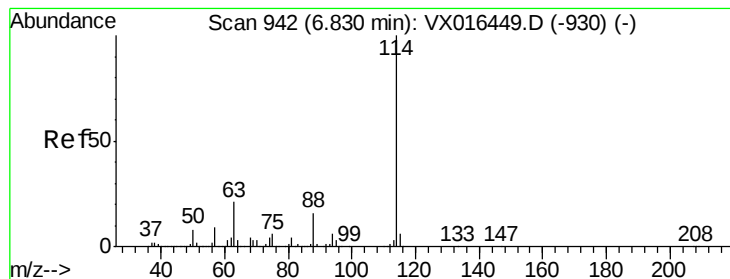
Tgt Ion: 56 Resp: 4020  
Ion Ratio Lower Upper  
56 100  
69 180.6 25.7 38.5#  
84 134.5 70.0 105.0#



#33  
1,2-Dichloroethane-d4  
Concen: 47.26 ug/l  
RT: 6.03 min Scan# 811  
Delta R.T. -0.00 min  
Lab File: VX016604.D  
Acq: 05 Jun 2020 12:31

Tgt Ion: 65 Resp: 135319  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-4

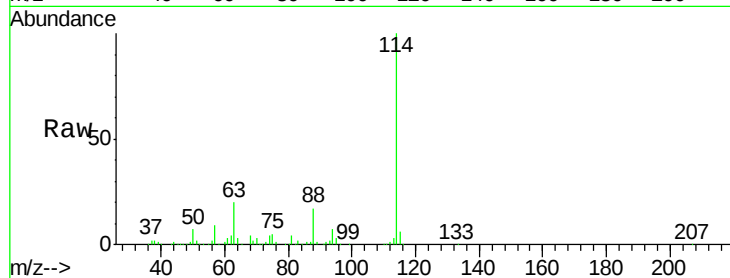
Tgt Ion:114 Resp: 363223

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

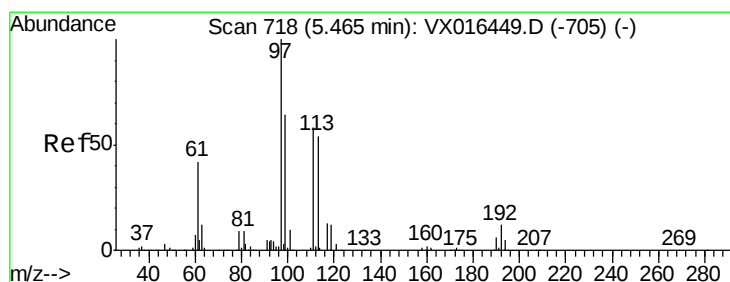
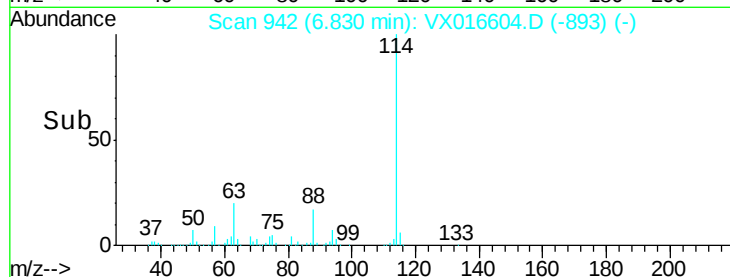
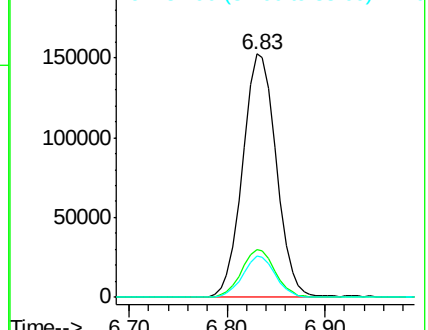
88 16.7 0.0 32.8



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: 48.28 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

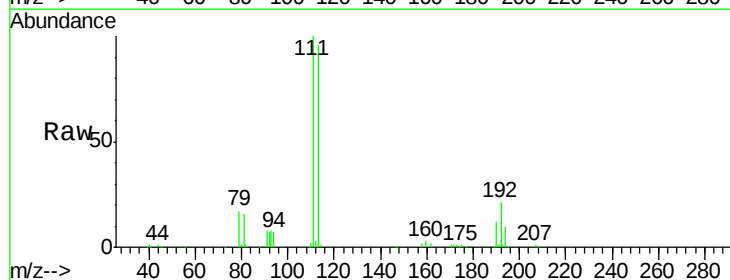
Tgt Ion:113 Resp: 107970

Ion Ratio Lower Upper

113 100

111 104.3 83.0 124.6

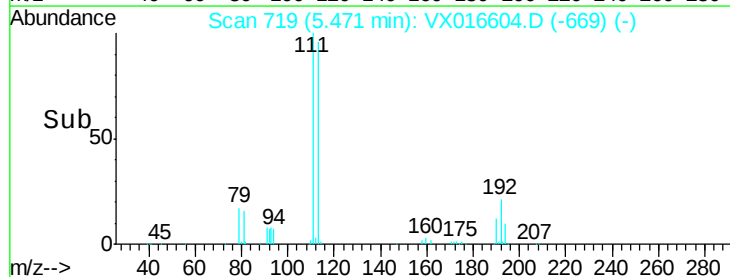
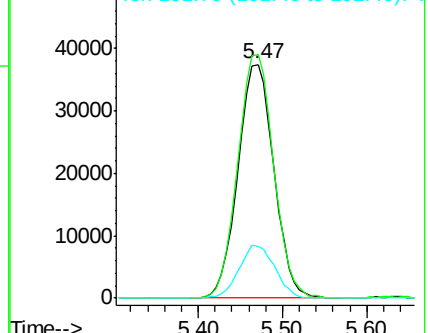
192 22.5 17.7 26.5

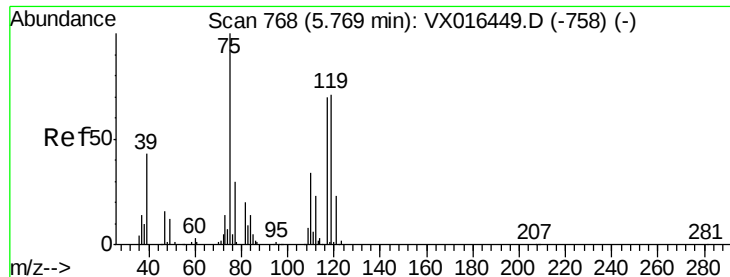


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.51 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

Instrument :

MSVOA\_X

ClientSampleId :

STORAGE-BLANK-SOIL-REF-4

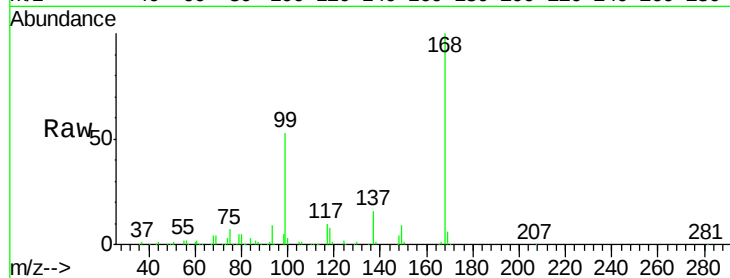
Tgt Ion: 75 Resp: 15523

Ion Ratio Lower Upper

75 100

110 9.2 17.4 52.3#

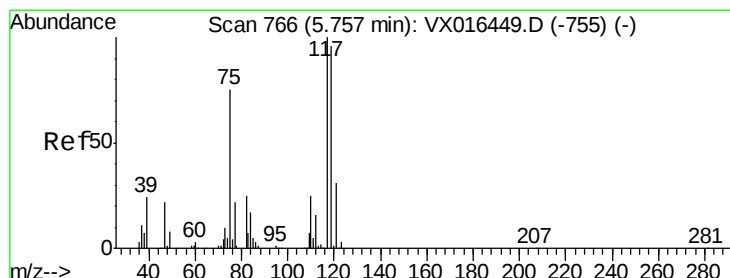
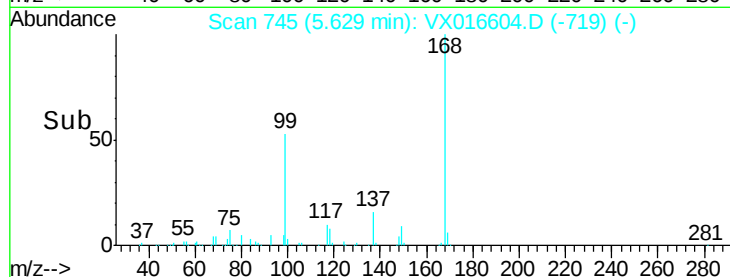
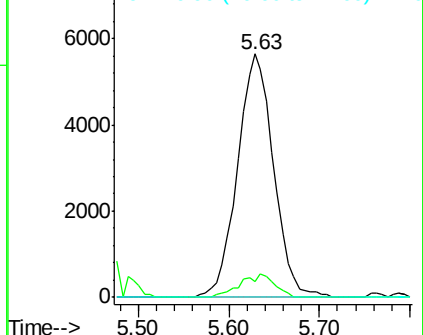
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VX016604.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016604.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016604.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.98 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

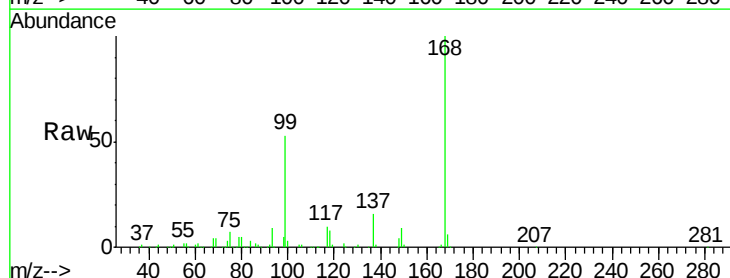
Tgt Ion: 117 Resp: 21601

Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

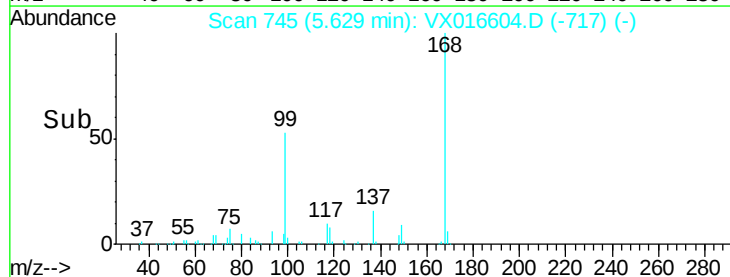
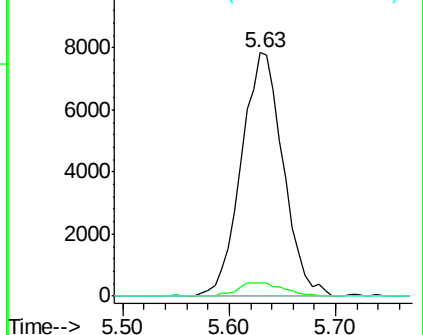
121 0.0 24.6 37.0#

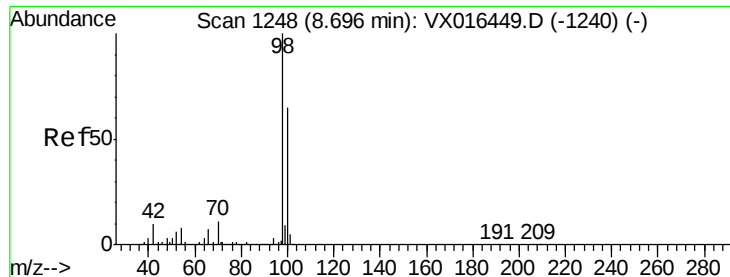


Abundance Ion 116.80 (116.50 to 117.50): VX016604.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX016604.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016604.D (-717) (-)





#50

Toluene-d8

Concen: 51.77 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

Instrument :

MSVOA\_X

ClientSampleId :

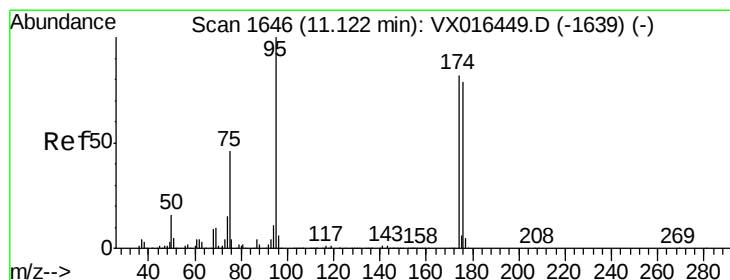
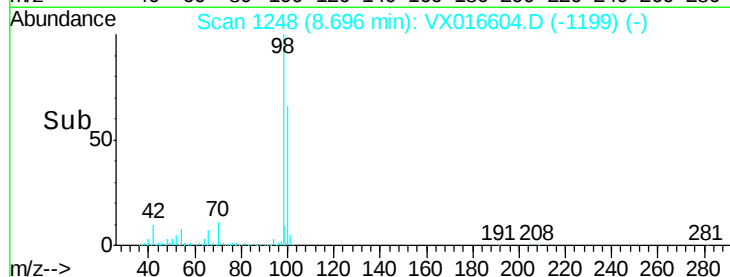
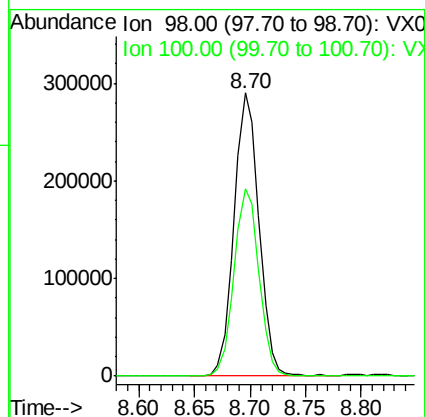
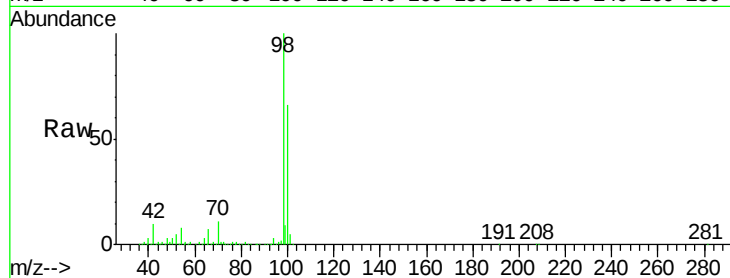
STORAGE-BLANK-SOIL-REF-4

Tgt Ion: 98 Resp: 450637

Ion Ratio Lower Upper

98 100

100 66.3 53.8 80.6



#62

4-Bromofluorobenzene

Concen: 53.53 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016604.D

Acq: 05 Jun 2020 12:31

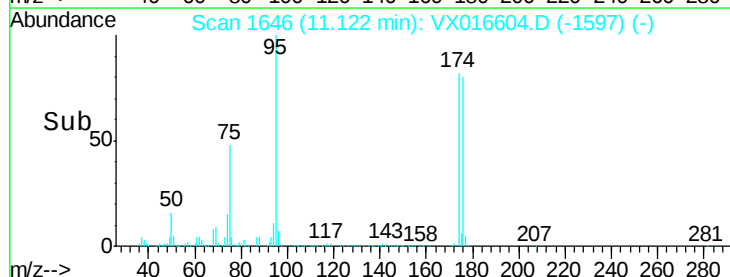
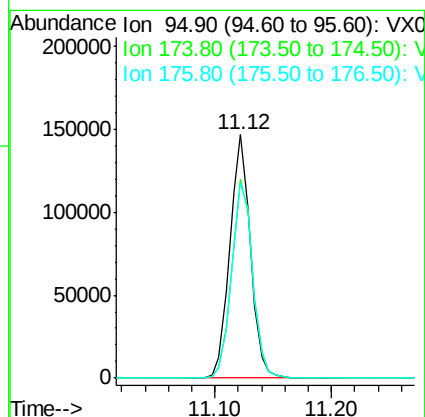
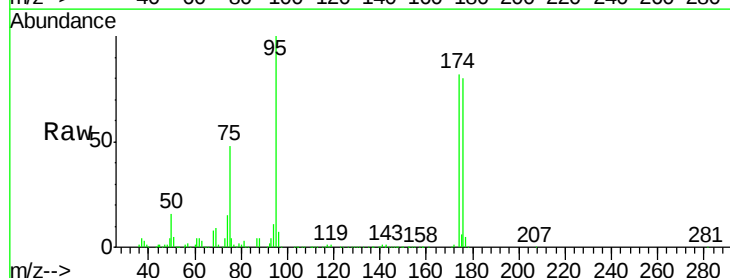
Tgt Ion: 95 Resp: 180043

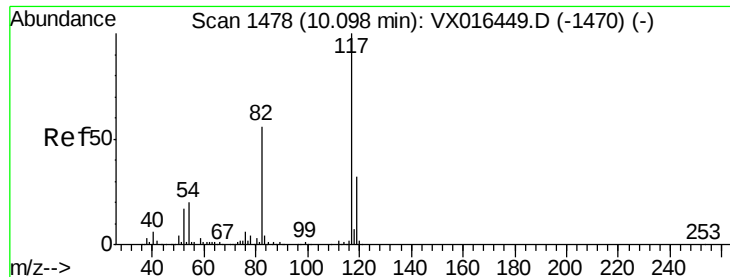
Ion Ratio Lower Upper

95 100

174 83.0 0.0 163.0

176 82.6 0.0 156.8

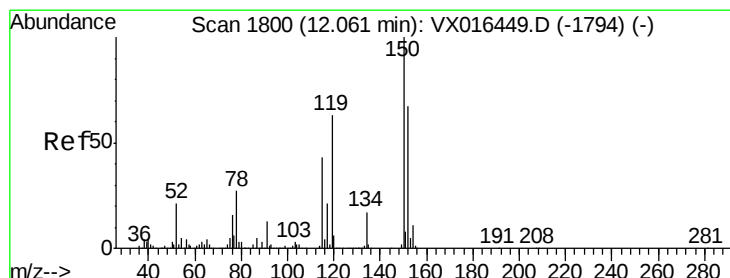
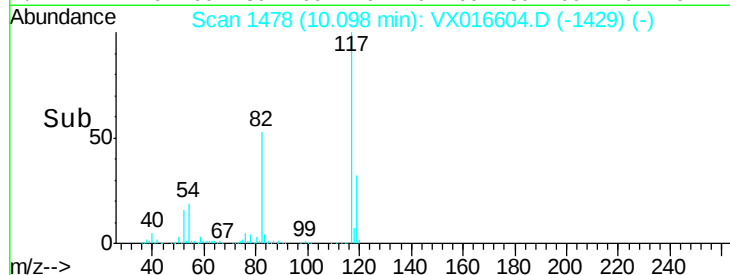
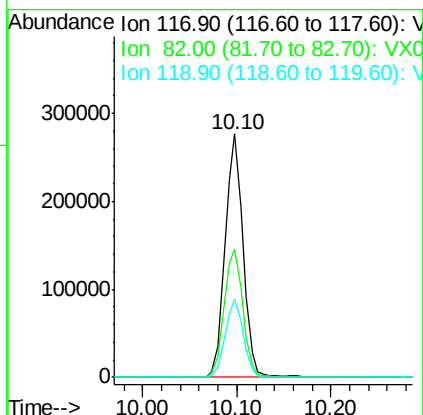
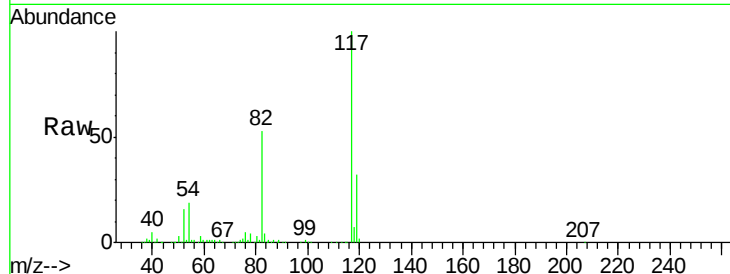




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016604.D  
Acq: 05 Jun 2020 12:31

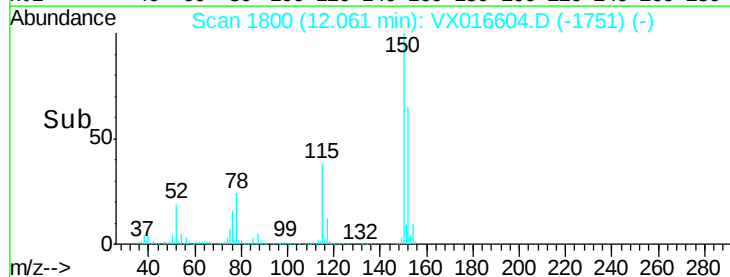
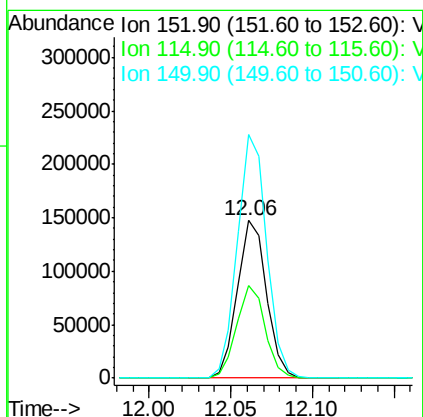
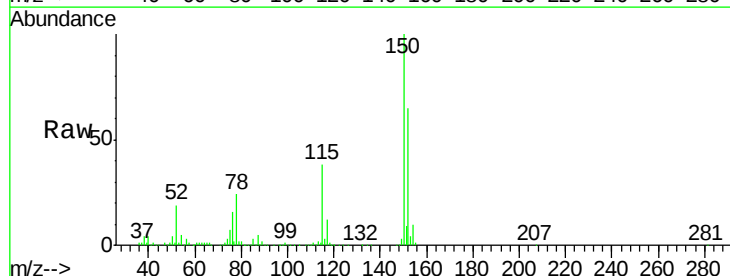
Instrument :  
MSVOA\_X  
ClientSampleId :  
STORAGE-BLANK-SOIL-REF-4

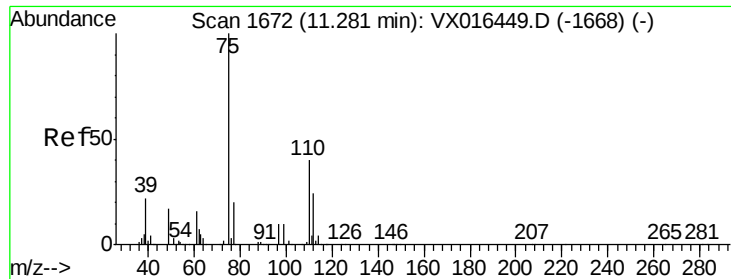
Tgt Ion:117 Resp: 365436  
Ion Ratio Lower Upper  
117 100  
82 52.8 45.0 67.6  
119 32.4 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016604.D  
Acq: 05 Jun 2020 12:31

Tgt Ion:152 Resp: 184207  
Ion Ratio Lower Upper  
152 100  
115 57.5 39.9 119.6  
150 155.0 0.0 341.0

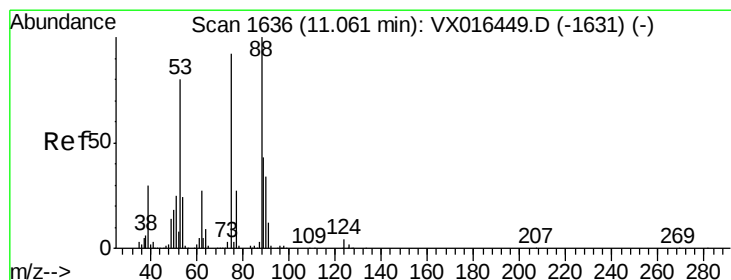
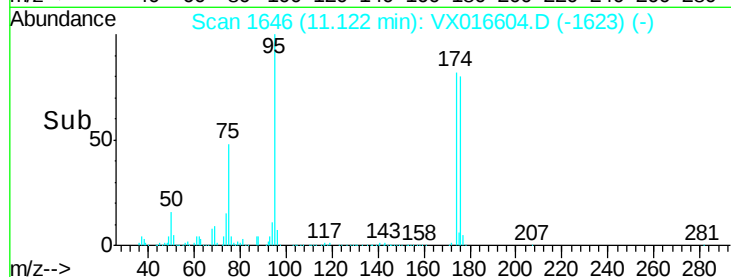
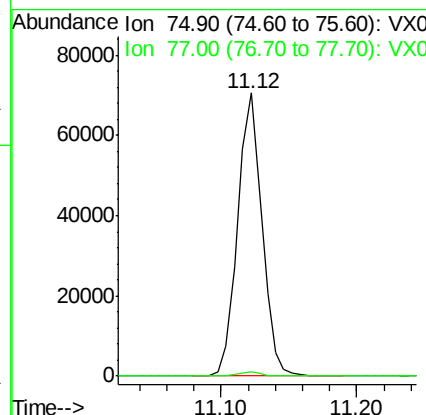
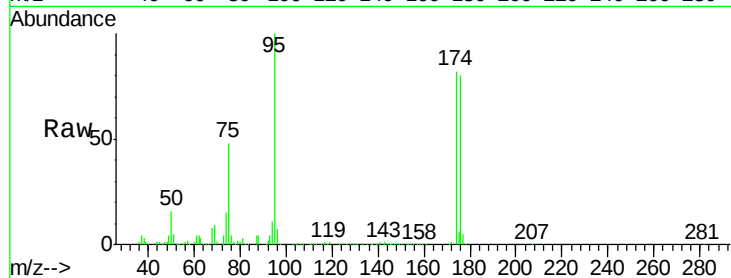




#76  
 1,2,3-Trichloropropane  
 Concen: 21.72 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. -0.16 min  
 Lab File: VX016604.D  
 Acq: 05 Jun 2020 12:31

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 STORAGE-BLANK-SOIL-REF-4

Tgt Ion: 75 Resp: 87960  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 21.3 63.7#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 53.44 ug/l  
 RT: 11.12 min Scan# 1646  
 Delta R.T. 0.06 min  
 Lab File: VX016604.D  
 Acq: 05 Jun 2020 12:31

Tgt Ion: 75 Resp: 87960  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 71.3 106.9#  
 89 0.0 36.6 55.0#

