

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032720\  
 Data File : VX015415.D  
 Acq On : 28 Mar 2020 05:25  
 Operator : JC/SP  
 Sample : L2033-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ZIPPER-DRAINS

Quant Time: Mar 30 01:54:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 1082079  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1790255  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1682437  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 903917   | 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   | 732909   | 48.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.04%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 569208   | 49.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.48%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 2167673  | 51.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.90% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 927140   | 54.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.30% |          |

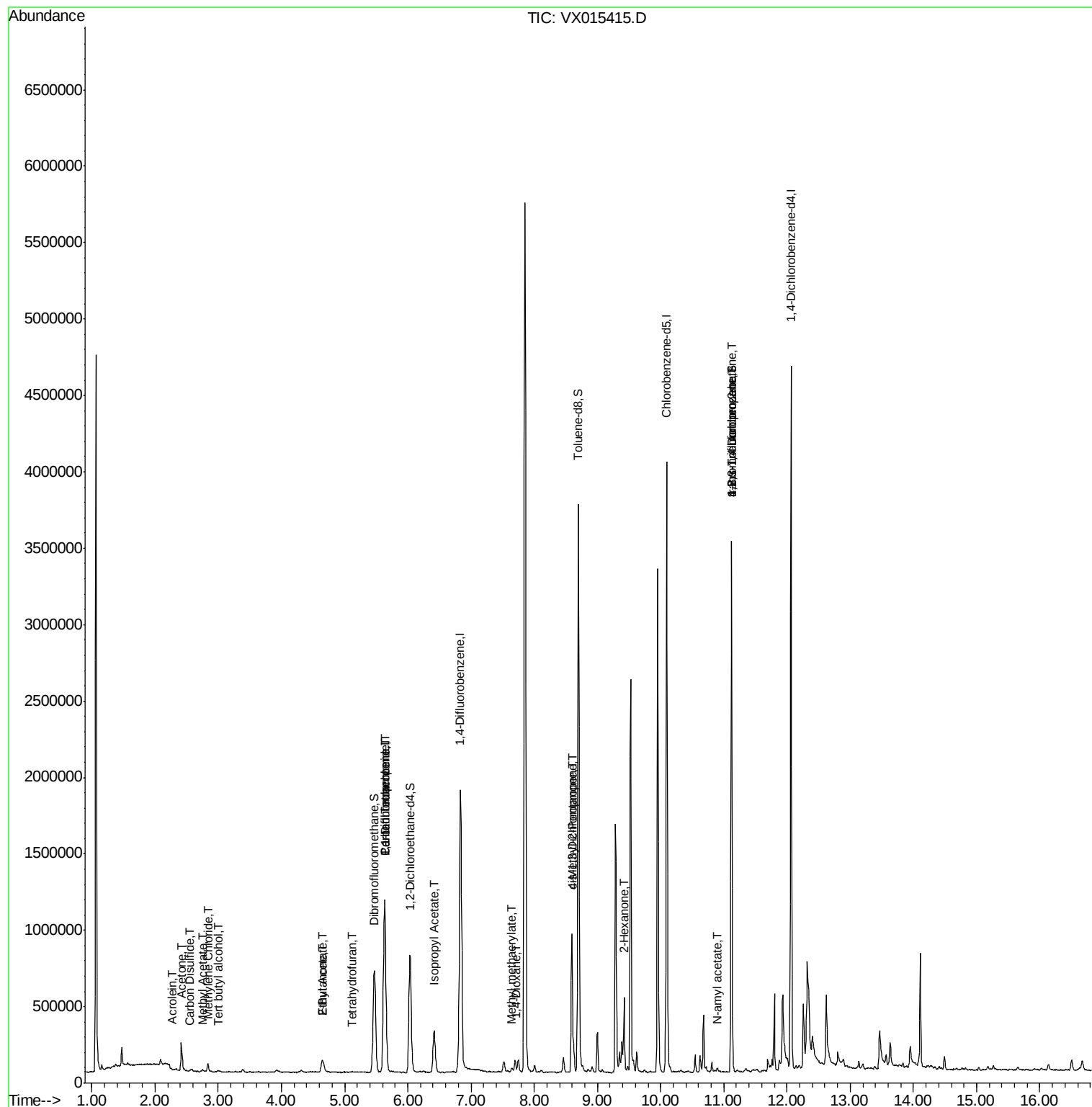
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 604      | Below Cal | #      | 55     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 10262    | 2.809     | ug/l # | 72     |
| 13) Acrolein                   | 2.28  | 56   | 3516     | 1.690     | ug/l # | 81     |
| 16) Acetone                    | 2.42  | 43   | 200511   | 30.581    | ug/l   | 97     |
| 17) Carbon Disulfide           | 2.55  | 76   | 6835     | 0.219     | ug/l # | 90     |
| 18) Methyl Acetate             | 2.75  | 43   | 16265    | 0.972     | ug/l   | 95     |
| 20) Methylene Chloride         | 2.84  | 84   | 24805    | 2.025     | ug/l   | 90     |
| 25) 2-Butanone                 | 4.64  | 43   | 69284    | 6.571     | ug/l   | 98     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 2536     | 0.374     | ug/l # | 82     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 85930    | 5.209     | ug/l # | 52     |
| 37) Ethyl Acetate              | 4.64  | 43   | 69284    | 3.226     | ug/l # | 76     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 103292   | 5.781     | ug/l # | 15     |
| 43) Isopropyl Acetate          | 6.42  | 43   | 404407   | 11.154    | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.65  | 41   | 26889    | 1.485     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 377      | 1.116     | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 428430   | 20.851    | ug/l # | 38     |
| 54) cis-1,3-Dichloropropene    | 8.60  | 75   | 142707   | 6.465     | ug/l # | 54     |
| 59) 2-Hexanone                 | 9.42  | 43   | 330932   | 21.333    | ug/l # | 27     |
| 74) N-amyl acetate             | 10.90 | 43   | 7673     | 0.233     | ug/l # | 25     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 478984   | 25.768    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 478984   | 61.829    | ug/l # | 10     |

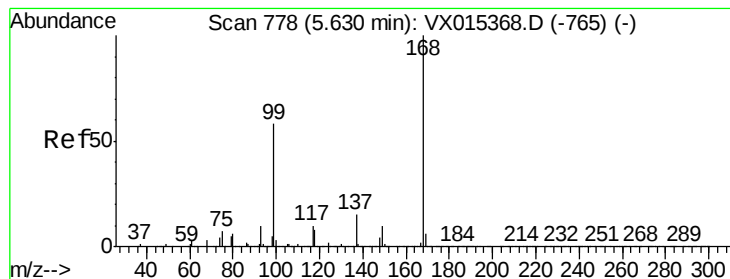
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032720\  
Data File : VX015415.D  
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ALS Vial : 48 Sample Multiplier: 1

Instrument :  
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Quant Time: Mar 30 01:54:13 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

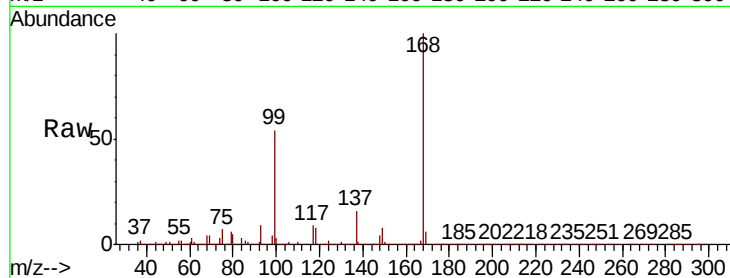
ZIPPER-DRAINS

Tot Ion:168 Resp: 1082079

Ion Ratio Lower Upper

168 100

99 53.6 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

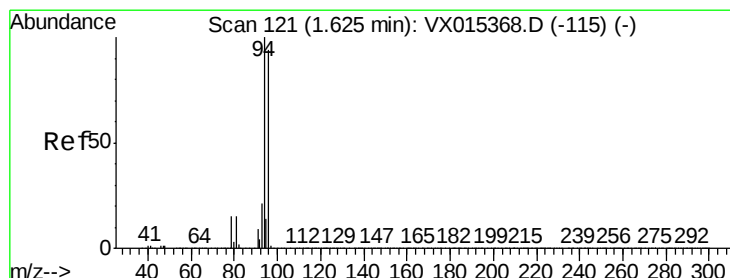
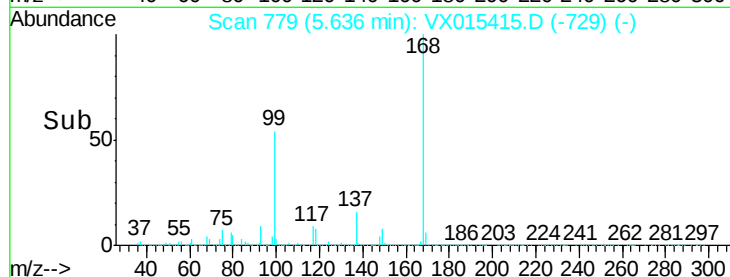
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015415.D

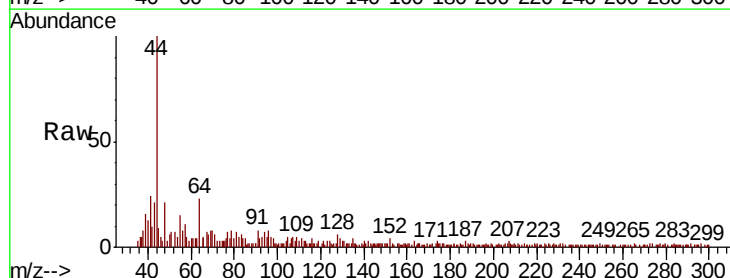
Acq: 28 Mar 2020 05:25

Tgt Ion: 94 Resp: 604

Ion Ratio Lower Upper

94 100

96 50.5 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

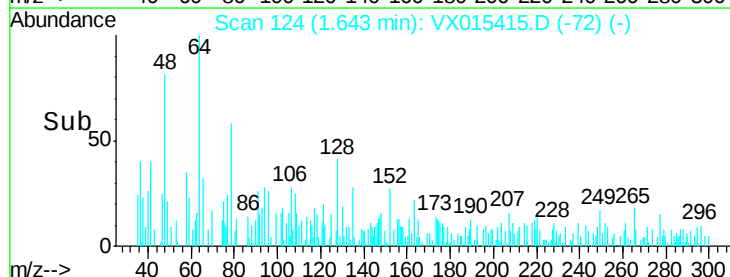
600

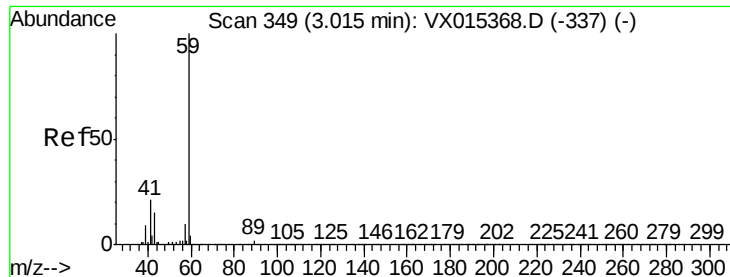
400

200

0

Time-->



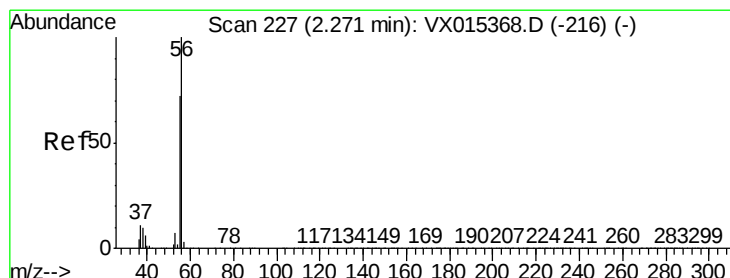
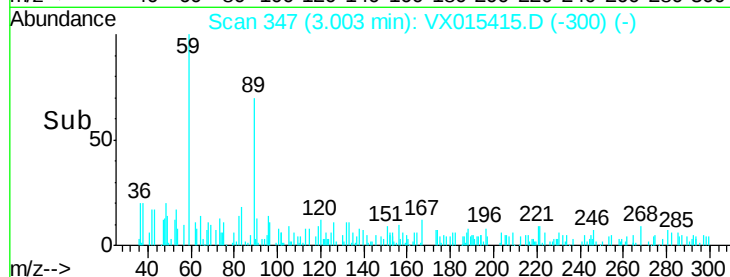
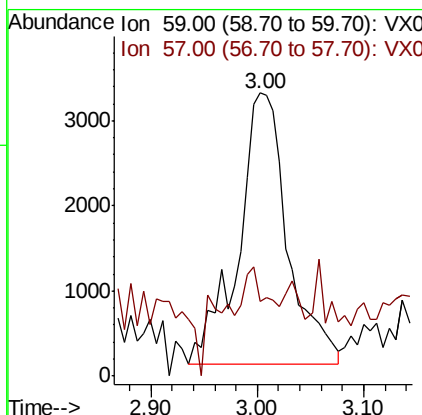
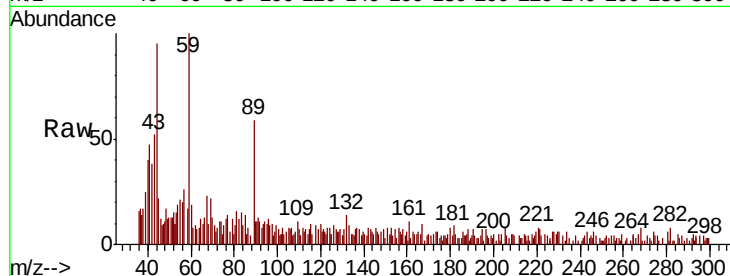


#11

Tert butvl alcohol  
Concen: 2.809 ug/l  
RT: 3.00 min Scan# 347  
Delta R.T. -0.01 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
ZIPPER-DRAINS

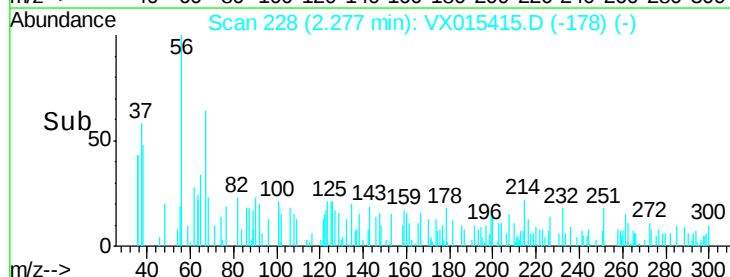
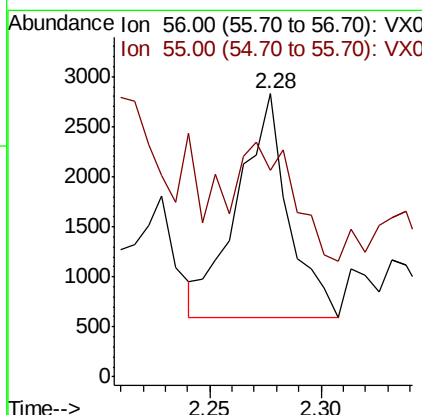
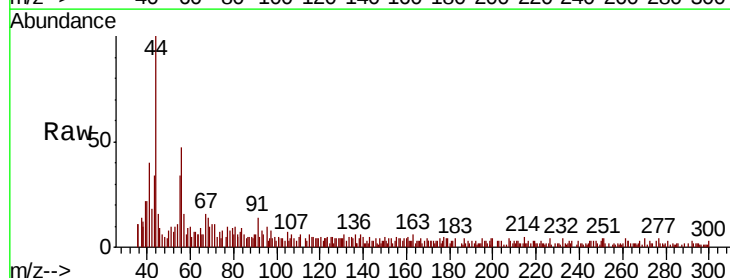
Tot Ion: 59 Resp: 10262  
Ion Ratio Lower Upper  
59 100  
57 20.5 8.1 12.1#

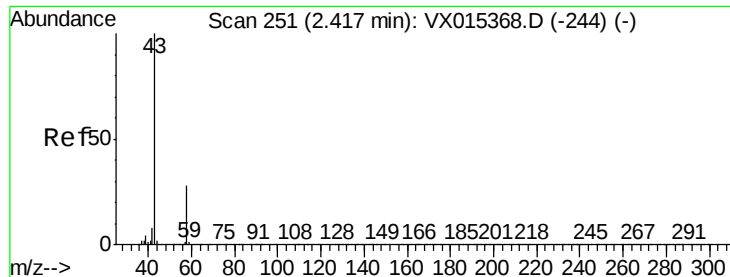


#13

Acrolein  
Concen: 1.690 ug/l  
RT: 2.28 min Scan# 228  
Delta R.T. 0.01 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

Tgt Ion: 56 Resp: 3516  
Ion Ratio Lower Upper  
56 100  
55 55.3 57.0 85.4#





#16

Acetone

Concen: 30.581 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

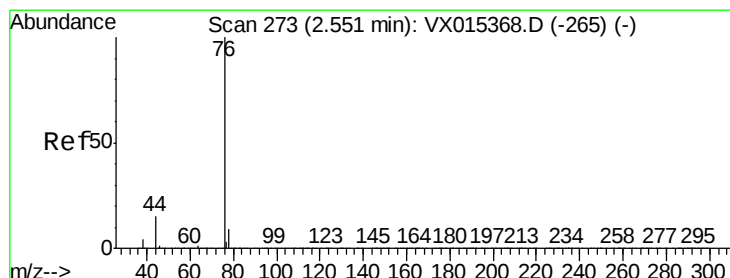
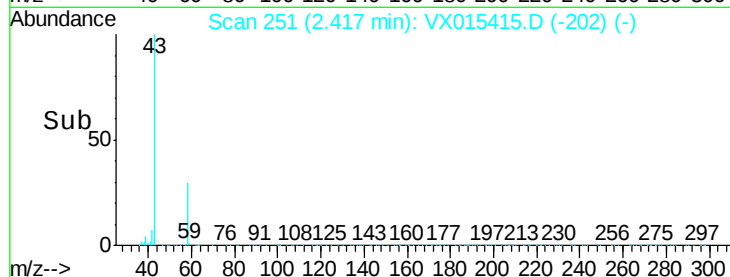
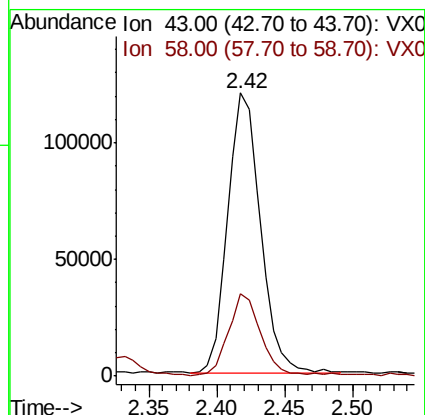
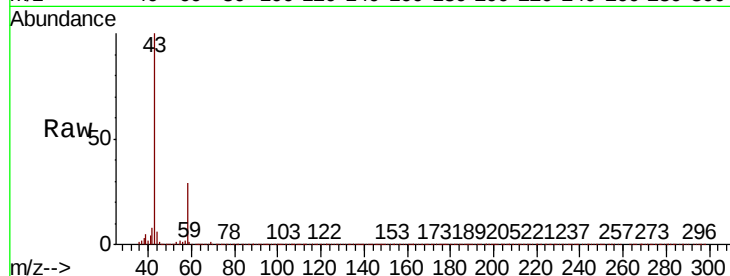
ZIPPER-DRAINS

Tot Ion: 43 Resp: 200511

Ion Ratio Lower Upper

43 100

58 28.9 22.1 33.1



#17

Carbon Disulfide

Concen: 0.219 ug/l

RT: 2.55 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX015415.D

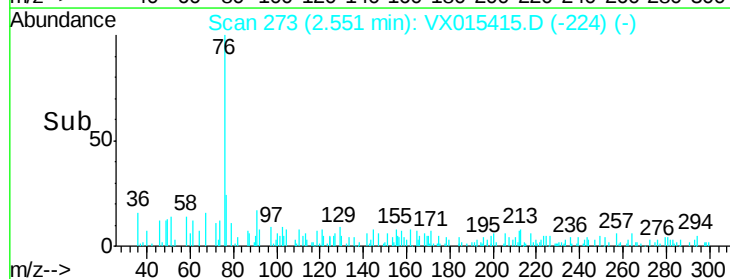
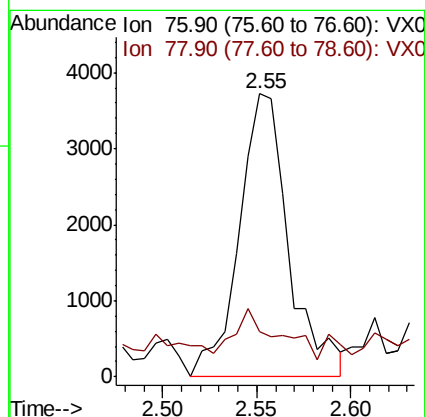
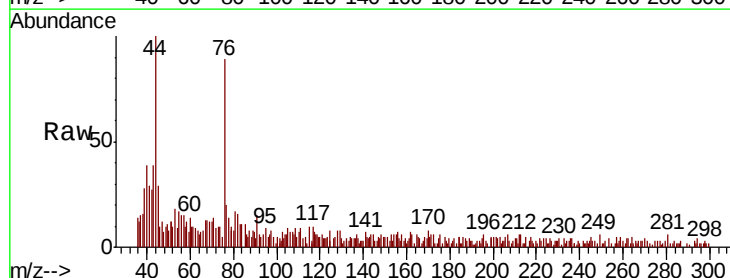
Acq: 28 Mar 2020 05:25

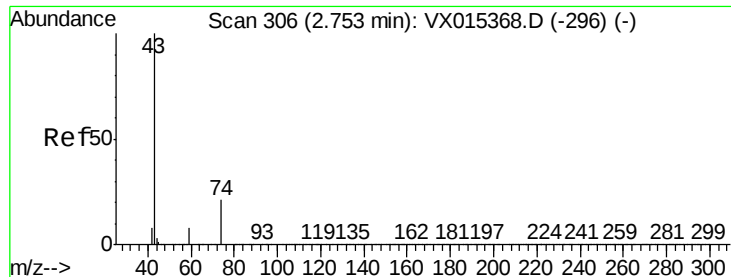
Tgt Ion: 76 Resp: 6835

Ion Ratio Lower Upper

76 100

78 5.1 7.1 10.7#

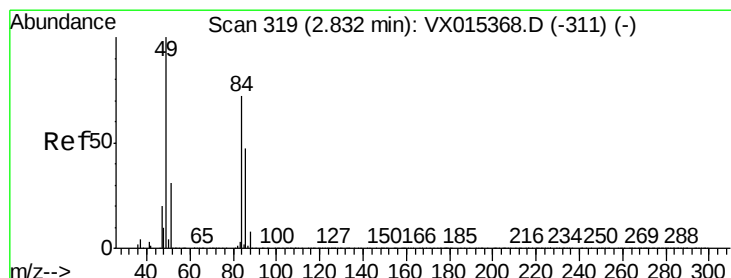
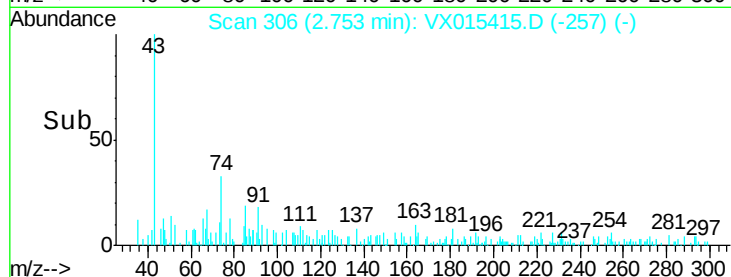
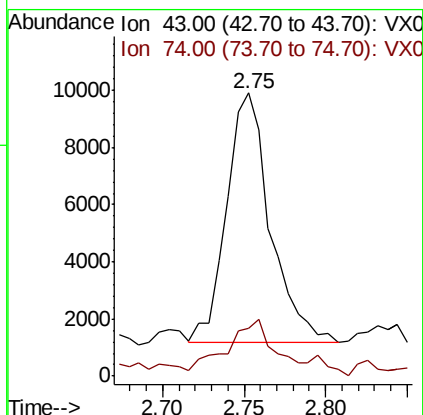
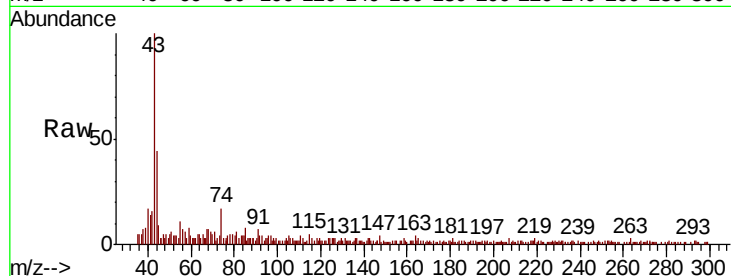




#18  
Methyl Acetate  
Concen: 0.972 ug/l  
RT: 2.75 min Scan# 306  
Delta R.T. 0.00 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

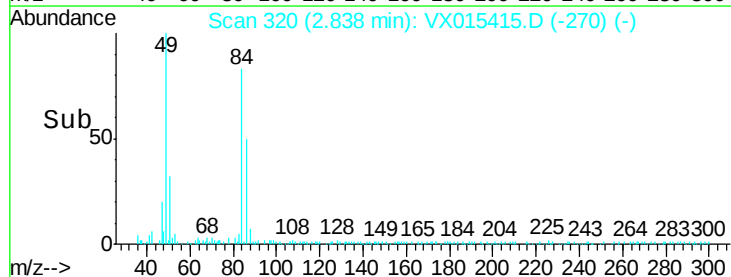
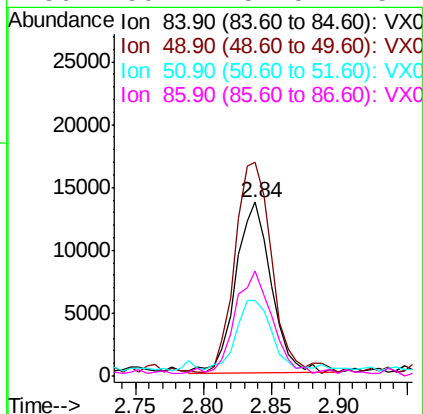
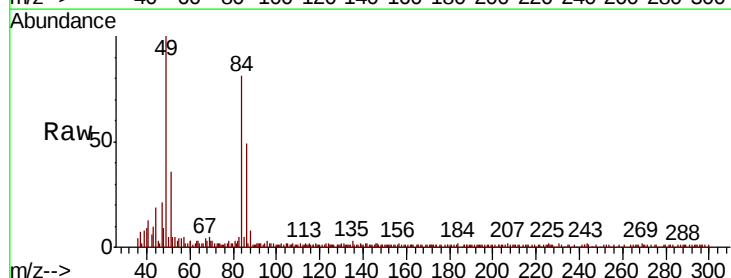
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZIPPER-DRAINS

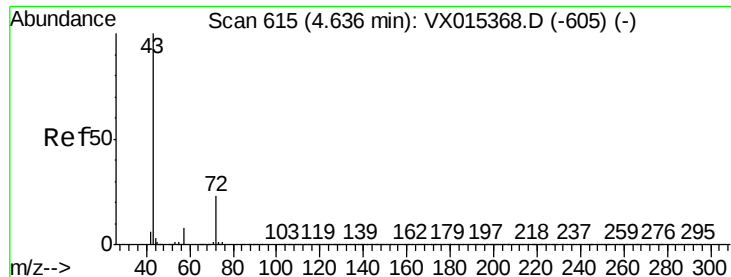
Tot Ion: 43 Resp: 16265  
Ion Ratio Lower Upper  
43 100  
74 22.9 16.5 24.7



#20  
Methylene Chloride  
Concen: 2.025 ug/l  
RT: 2.84 min Scan# 320  
Delta R.T. 0.01 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

Tgt Ion: 84 Resp: 24805  
Ion Ratio Lower Upper  
84 100  
49 123.3 111.3 166.9  
51 40.3 34.0 51.0  
86 59.7 52.5 78.7





#25

2-Butanone

Concen: 6.571 ug/l

RT: 4.64 min Scan# 616

Delta R.T. 0.01 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

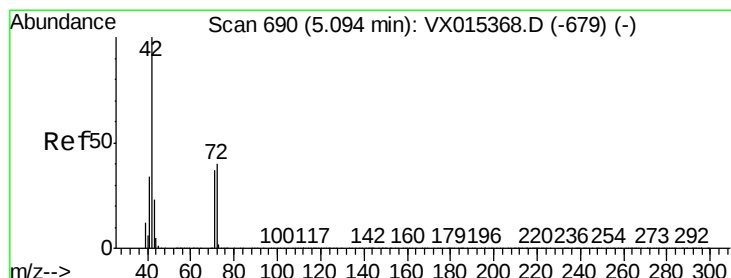
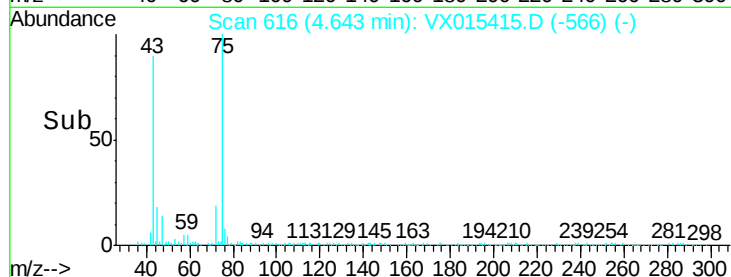
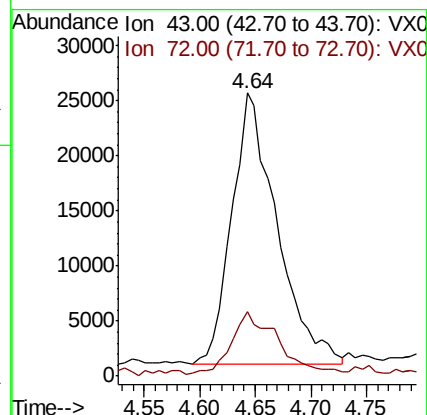
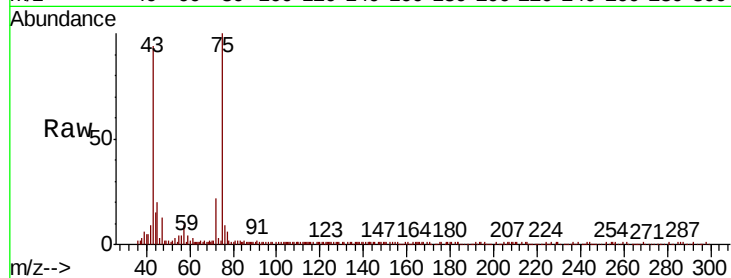
ZIPPER-DRAINS

Tot Ion: 43 Resp: 69284

Ion Ratio Lower Upper

43 100

72 22.9 19.0 28.4



#29

Tetrahydrofuran

Concen: 0.374 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.02 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

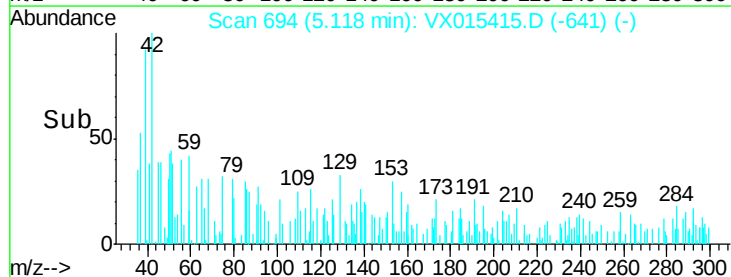
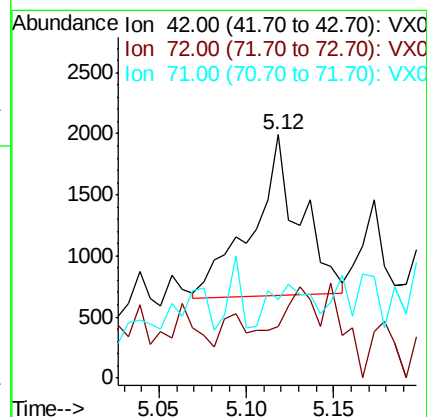
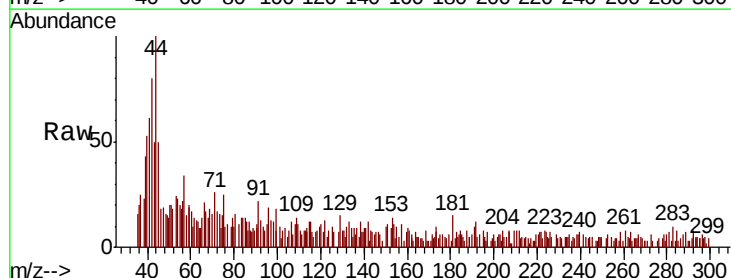
Tgt Ion: 42 Resp: 2536

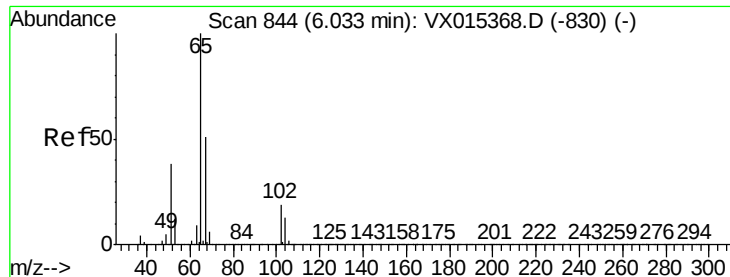
Ion Ratio Lower Upper

42 100

72 33.4 31.7 47.5

71 21.3 29.6 44.4#

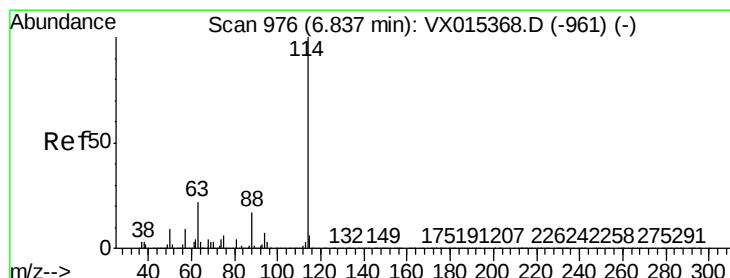
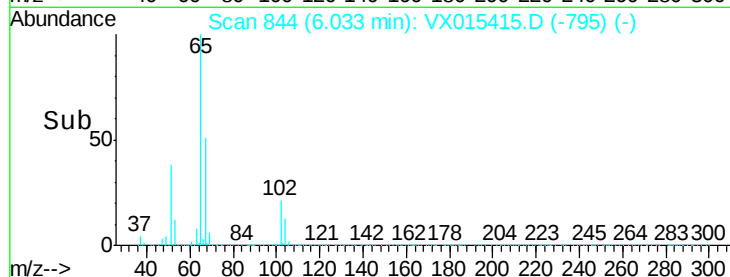
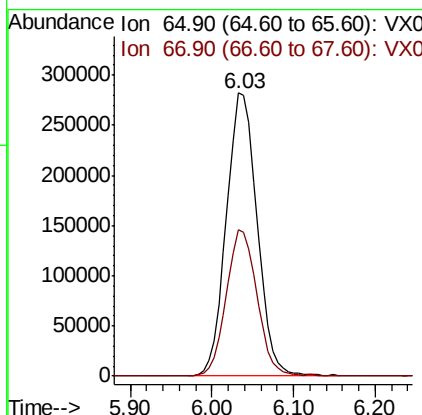
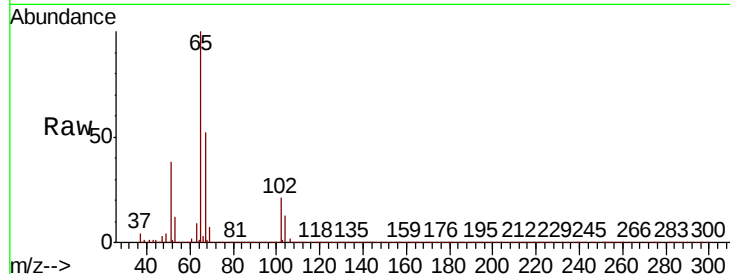




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.023 ug/l  
 RT: 6.03 min Scan# 844  
 Delta R.T. 0.00 min  
 Lab File: VX015415.D  
 Acq: 28 Mar 2020 05:25

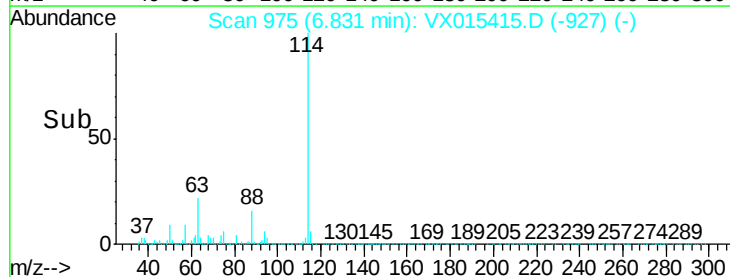
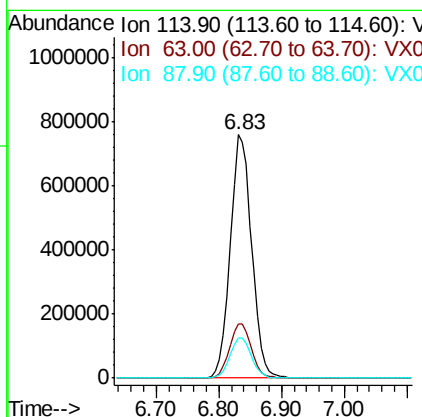
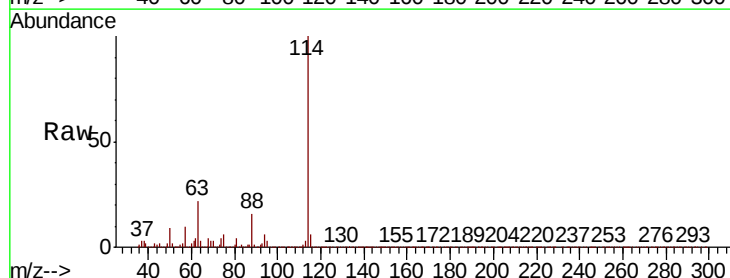
Instrument :  
 MSVOA\_X  
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 ZIPPER-DRAINS

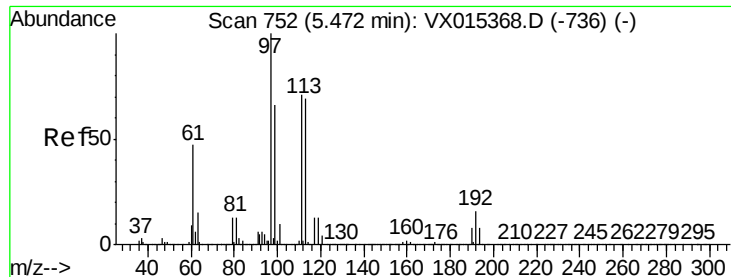
Tot Ion: 65 Resp: 732909  
 Ion Ratio Lower Upper  
 65 100  
 67 51.7 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 975  
 Delta R.T. -0.01 min  
 Lab File: VX015415.D  
 Acq: 28 Mar 2020 05:25

Tgt Ion: 114 Resp: 1790255  
 Ion Ratio Lower Upper  
 114 100  
 63 22.4 0.0 44.2  
 88 16.3 0.0 33.8

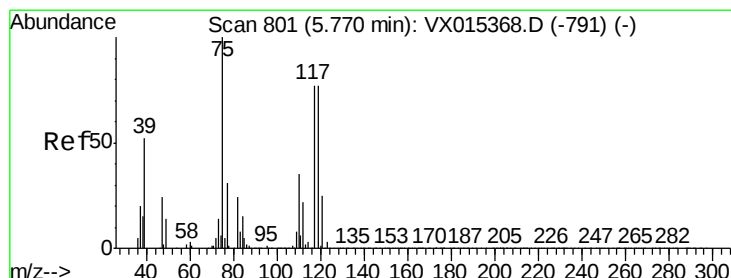
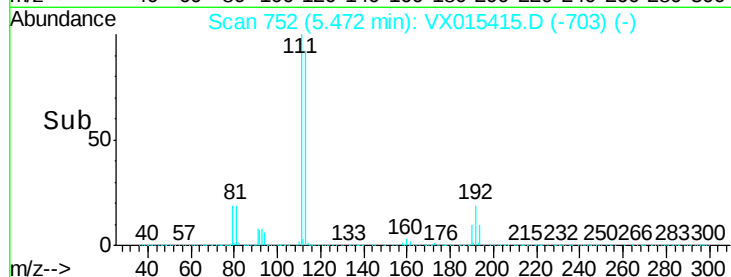
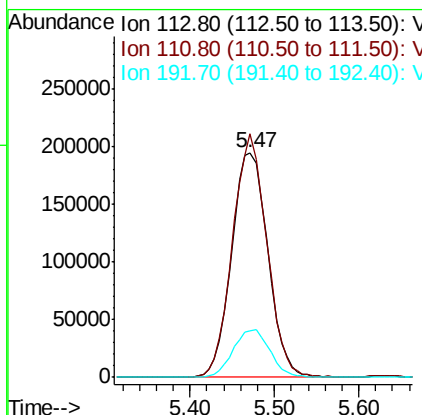
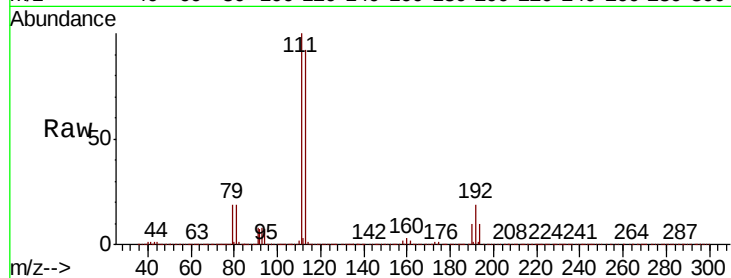




#35  
 Dibromofluoromethane  
 Concen: 49.739 ug/l  
 RT: 5.47 min Scan# 752  
 Delta R.T. 0.00 min  
 Lab File: VX015415.D  
 Acq: 28 Mar 2020 05:25

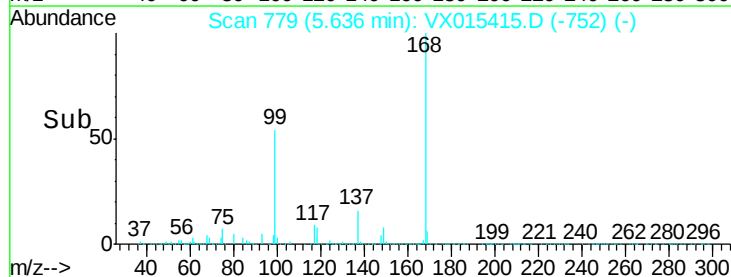
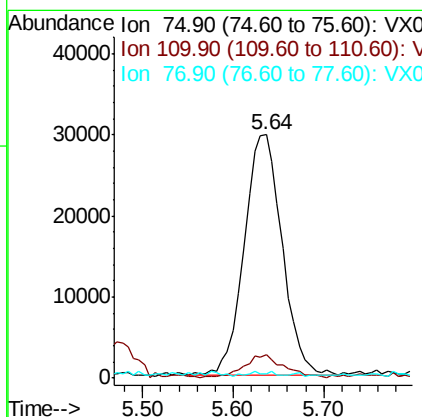
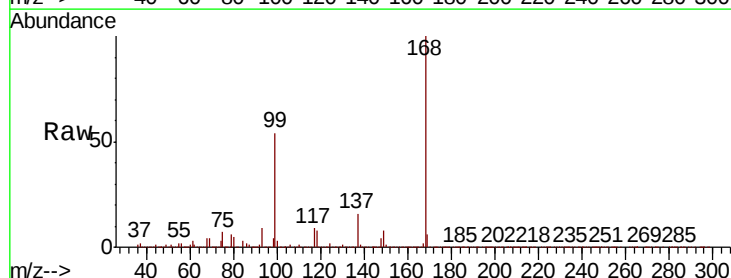
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ZIPPER-DRAINS

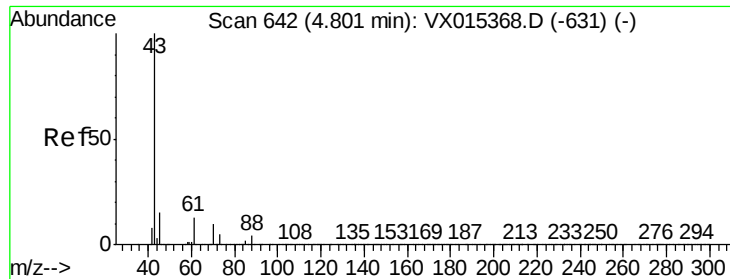
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 81.5  | 122.3 |
| 192     | 21.3  | 17.8  | 26.6  |



#36  
 1,1-Dichloropropene  
 Concen: 5.209 ug/l  
 RT: 5.64 min Scan# 779  
 Delta R.T. -0.13 min  
 Lab File: VX015415.D  
 Acq: 28 Mar 2020 05:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.5  | 17.1  | 51.3# |
| 77      | 0.7   | 24.6  | 36.8# |

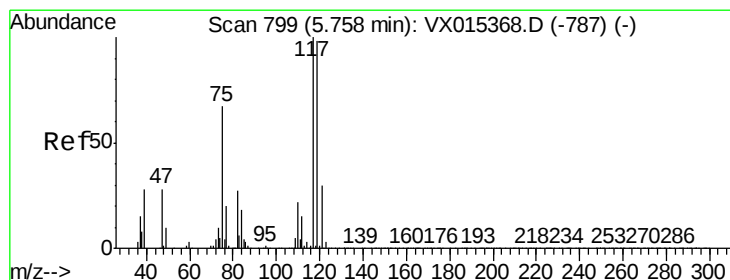
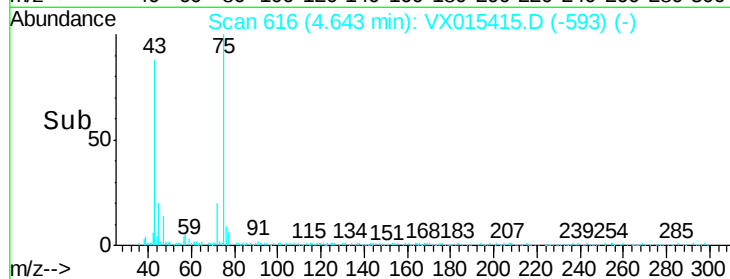
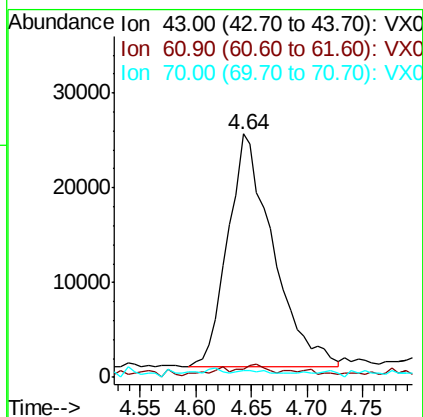
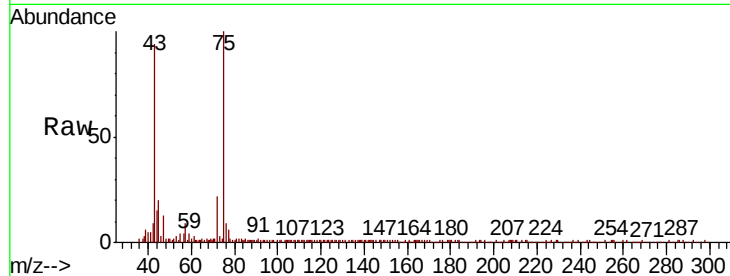




#37  
Ethyl Acetate  
Concen: 3.226 ug/l  
RT: 4.64 min Scan# 616  
Delta R.T. -0.16 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

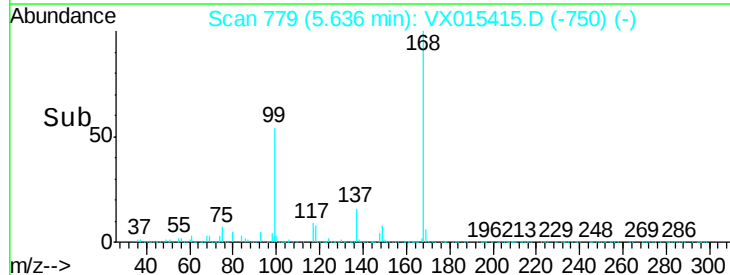
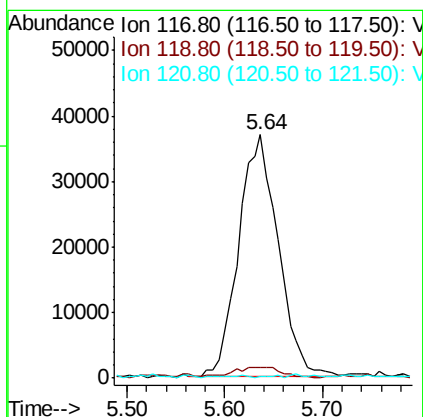
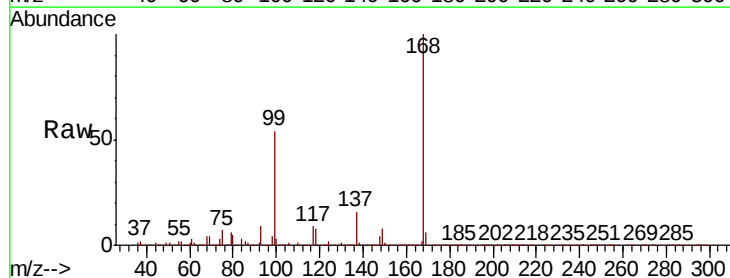
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZIPPER-DRAINS

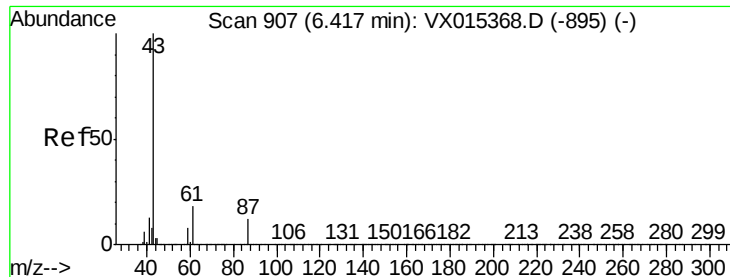
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 1.8   | 9.9   | 14.9# |
| 70      | 2.3   | 8.1   | 12.1# |



#38  
Carbon Tetrachloride  
Concen: 5.781 ug/l  
RT: 5.64 min Scan# 779  
Delta R.T. -0.12 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.1   | 78.0  | 117.0# |
| 121     | 0.0   | 23.8  | 35.8#  |





#43

Isopropyl Acetate

Concen: 11.154 ug/l

RT: 6.42 min Scan# 907

Delta R.T. 0.00 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

ZIPPER-DRAINS

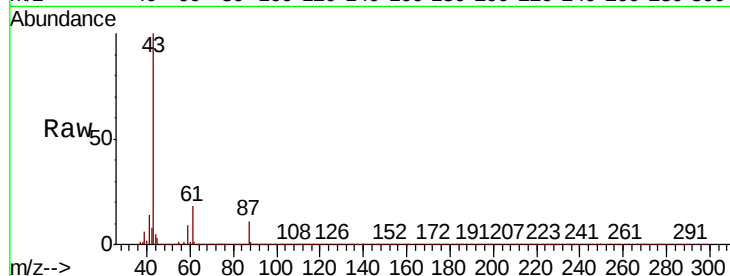
Tot Ion: 43 Resp: 404407

Ion Ratio Lower Upper

43 100

61 19.0 14.8 22.2

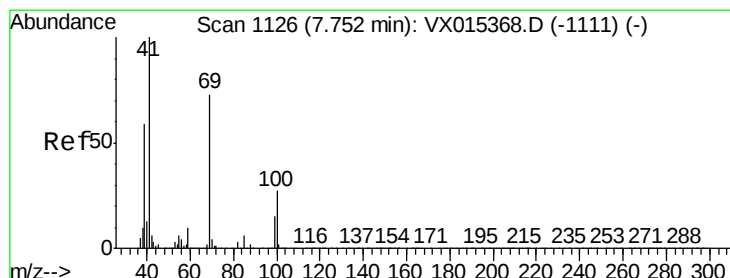
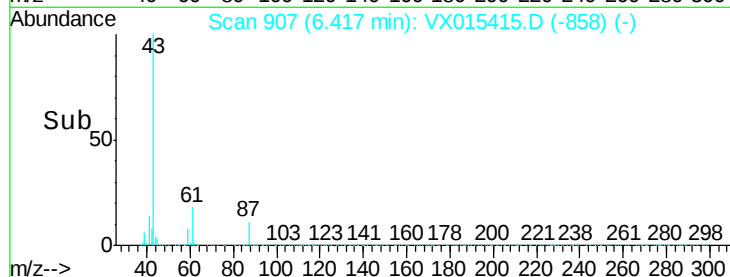
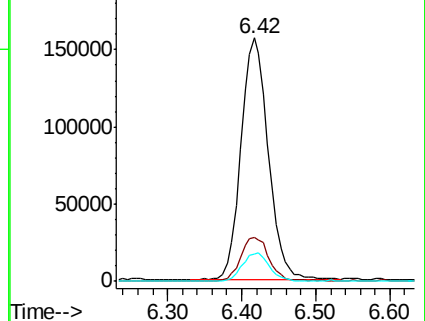
87 11.4 9.4 14.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.485 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.10 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

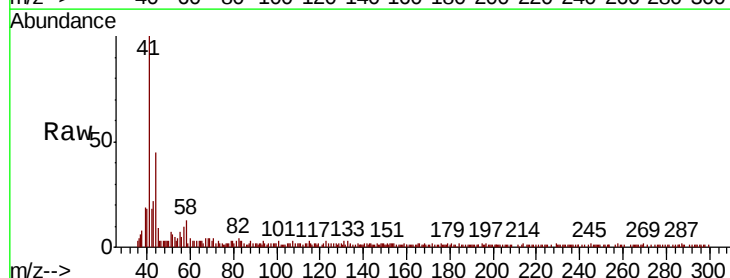
Tgt Ion: 41 Resp: 26889

Ion Ratio Lower Upper

41 100

69 0.5 56.7 85.1#

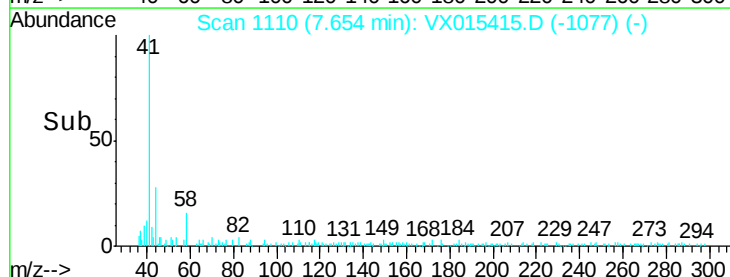
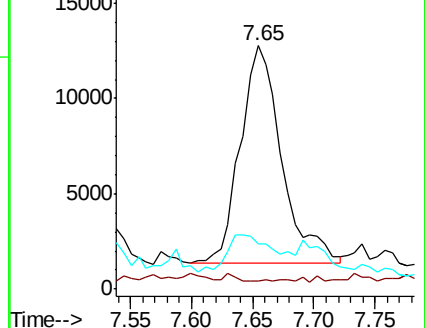
39 0.0 46.5 69.7#

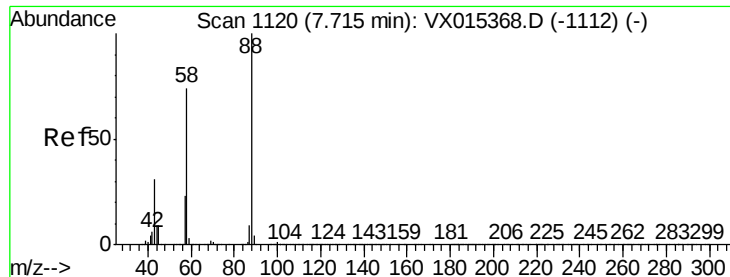


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

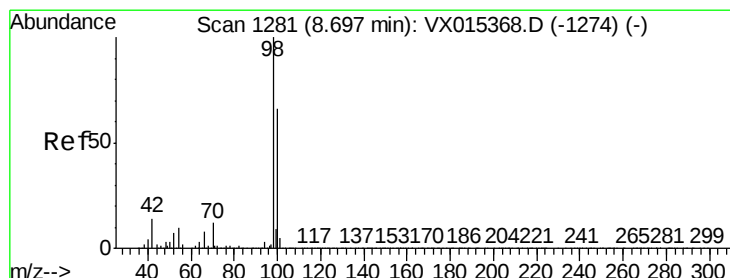
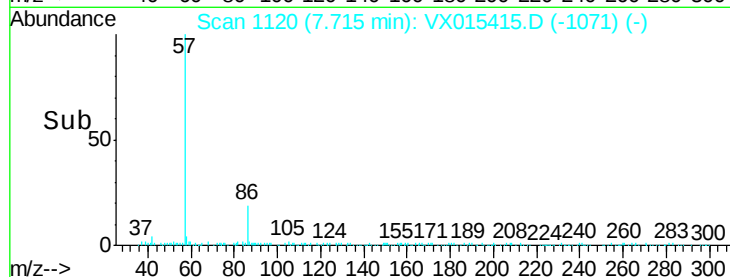
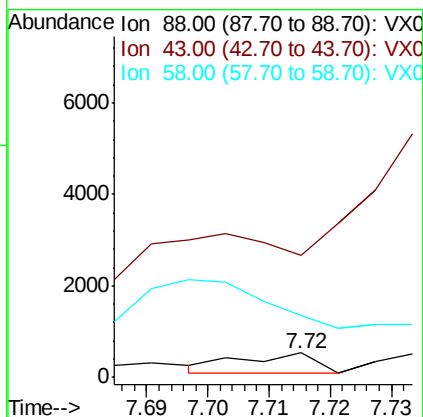
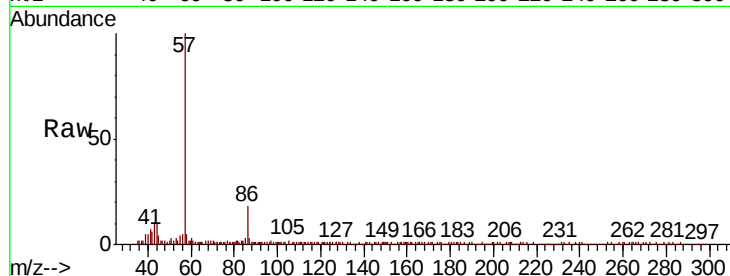




#49  
1,4-Dioxane  
Concen: 1.116 ug/l  
RT: 7.72 min Scan# 1120  
Delta R.T. 0.00 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

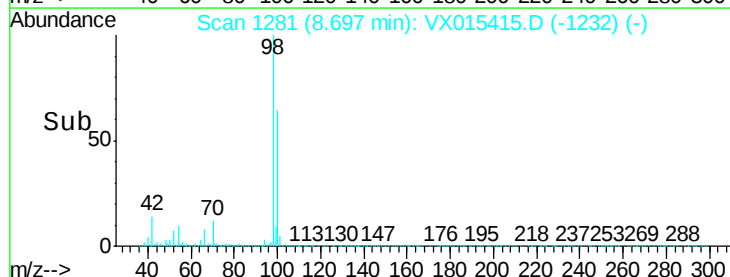
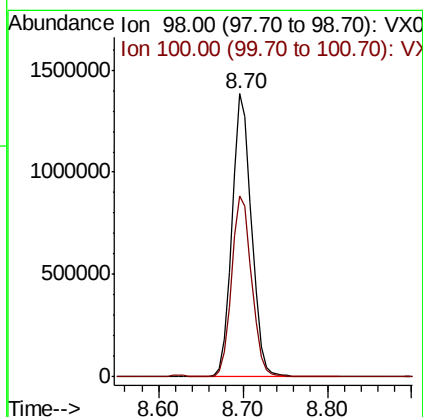
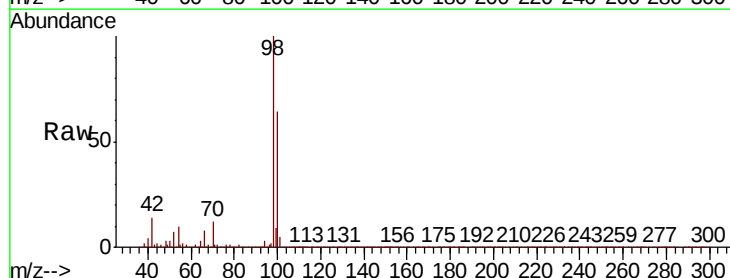
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZIPPER-DRAINS

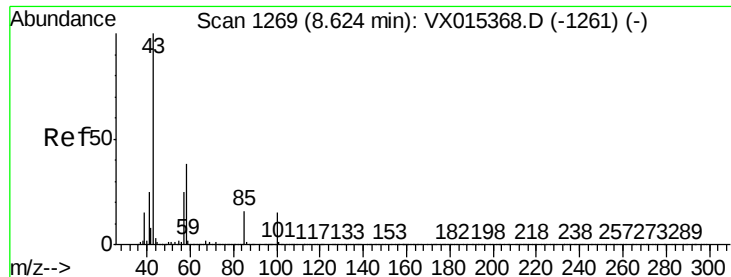
Tot Ion: 88 Resp: 377  
Ion Ratio Lower Upper  
88 100  
43 0.0 30.1 45.1#  
58 0.0 60.6 90.8#



#50  
Toluene-d8  
Concen: 51.448 ug/l  
RT: 8.70 min Scan# 1281  
Delta R.T. 0.00 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

Tgt Ion: 98 Resp: 2167673  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.5 80.3

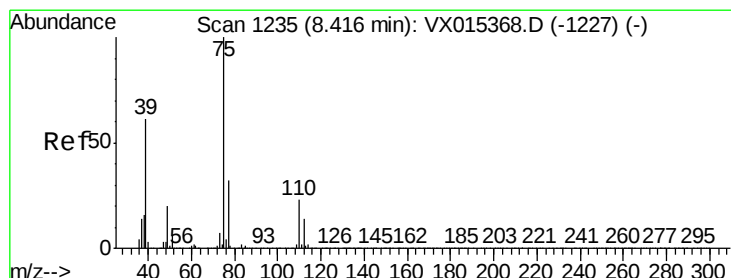
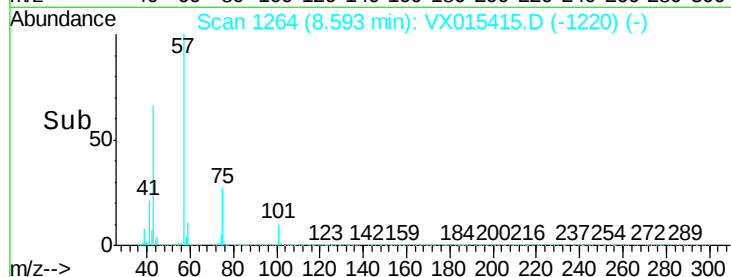
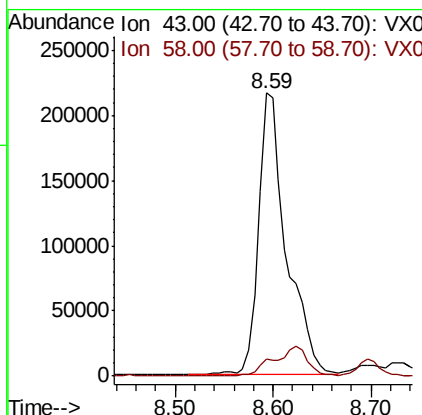
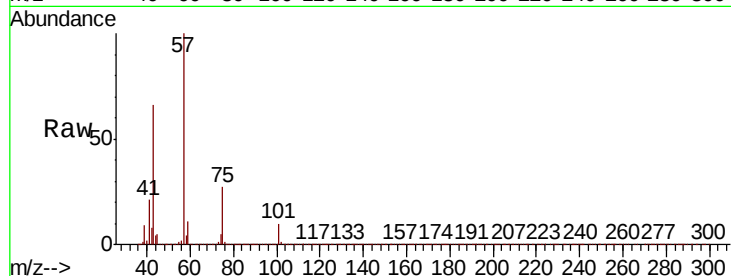




#51  
4-Methyl-2-Pentanone  
Concen: 20.851 ug/l  
RT: 8.59 min Scan# 1264  
Delta R.T. -0.03 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

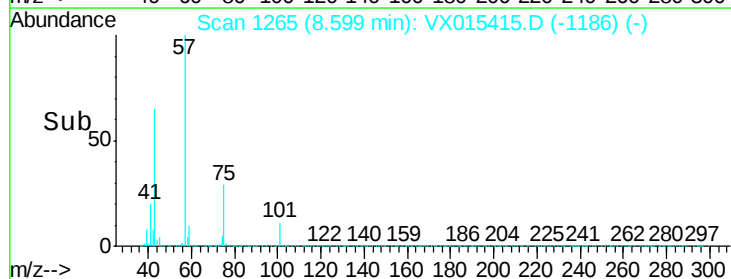
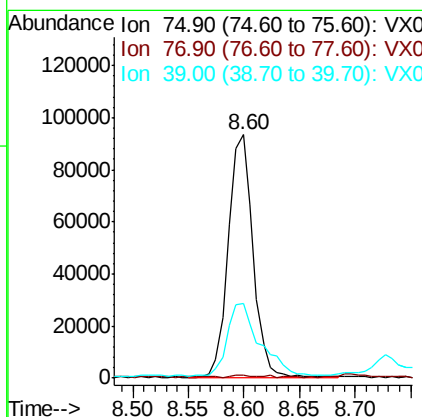
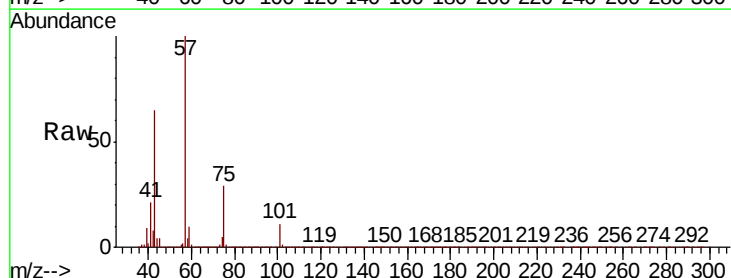
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZIPPER-DRAINS

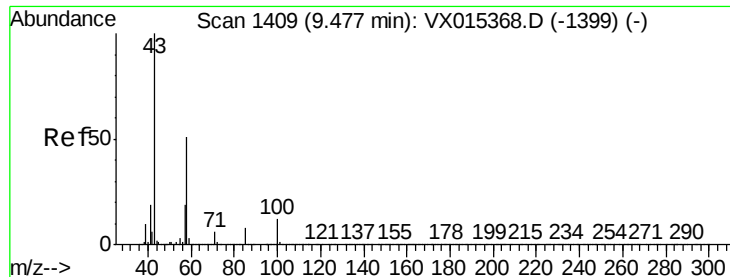
Tot Ion: 43 Resp: 428430  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.7 44.5#



#54  
cis-1,3-Dichloropropene  
Concen: 6.465 ug/l  
RT: 8.60 min Scan# 1265  
Delta R.T. 0.18 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

Tgt Ion: 75 Resp: 142707  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.8 38.6#  
39 29.9 49.0 73.4#





#59

2-Hexanone

Concen: 21.333 ug/l

RT: 9.42 min Scan# 1400

Delta R.T. -0.05 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

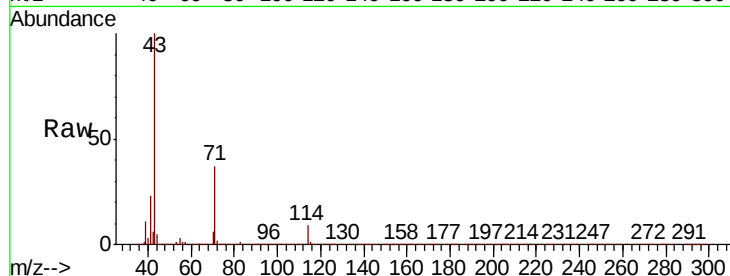
ZIPPER-DRAINS

Tot Ion: 43 Resp: 330932

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

250000

200000

150000

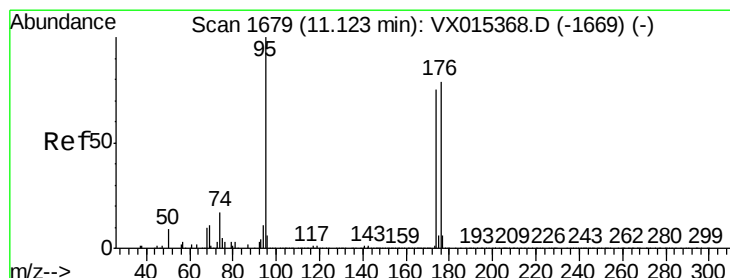
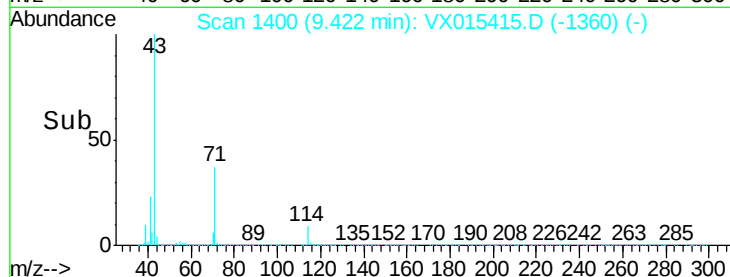
100000

50000

0

9.40 9.45

Time-->



#62

4-Bromofluorobenzene

Concen: 54.146 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

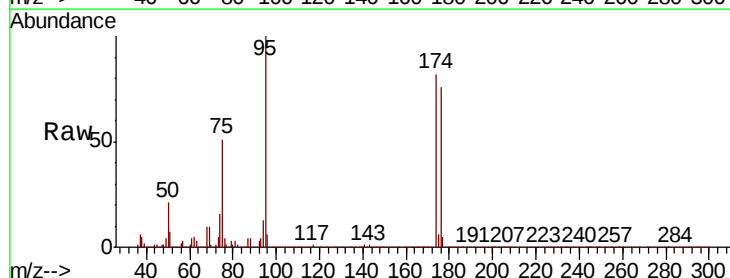
Tgt Ion: 95 Resp: 927140

Ion Ratio Lower Upper

95 100

174 77.9 0.0 158.6

176 74.0 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

1000000

800000

600000

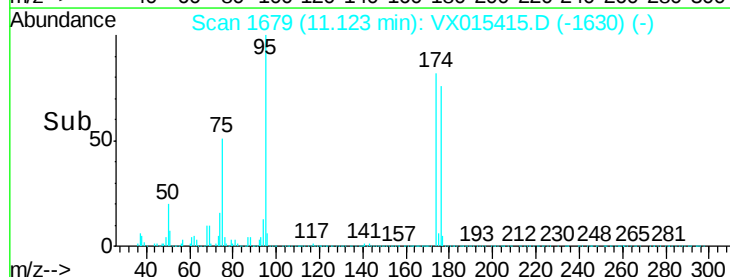
400000

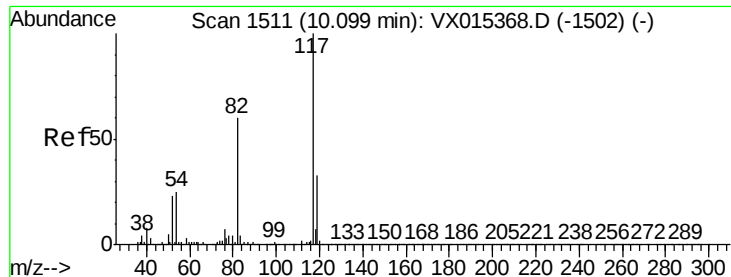
200000

0

11.10 11.20

Time-->

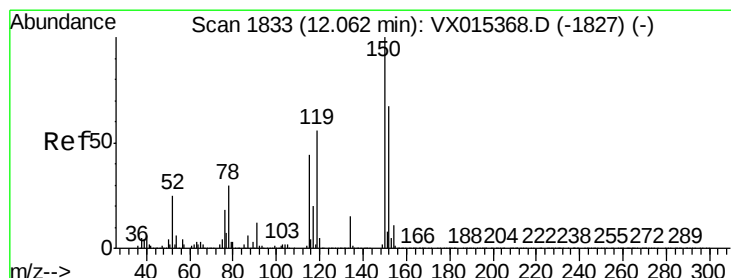
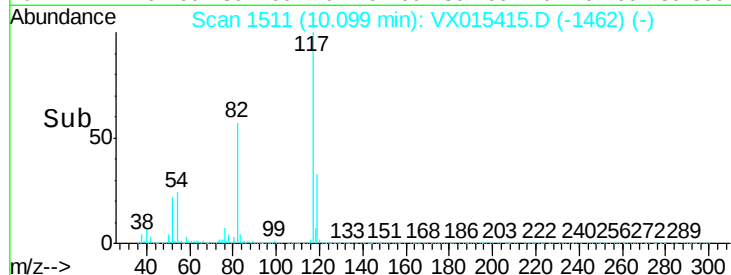
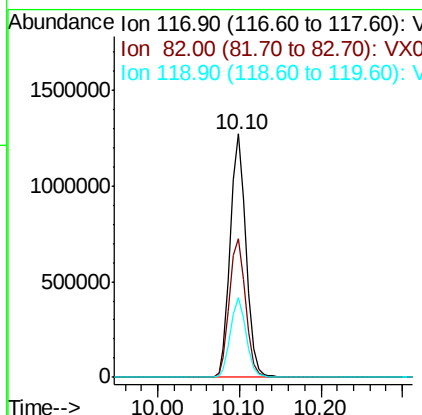
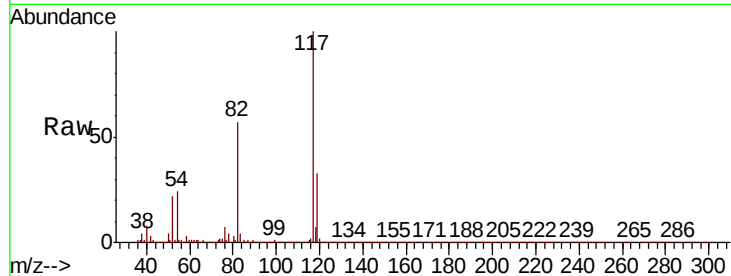




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. 0.00 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

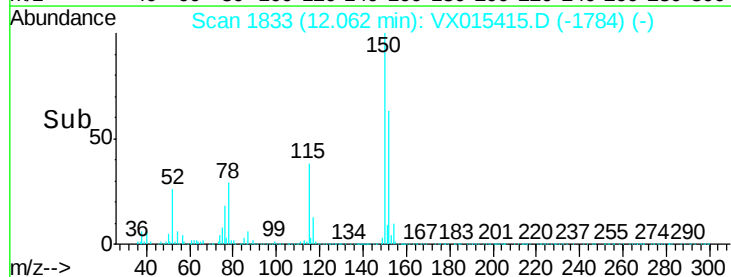
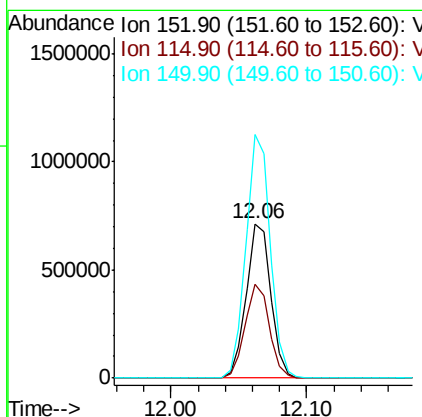
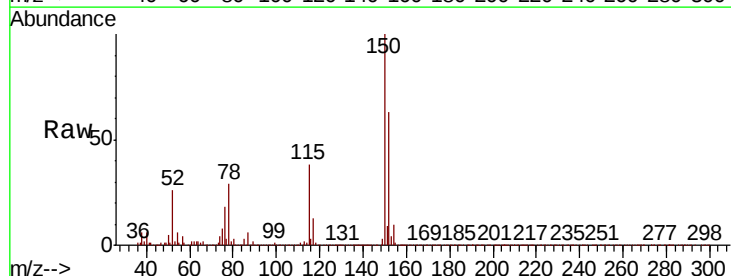
Instrument :  
MSVOA\_X  
ClientSampleId :  
ZIPPER-DRAINS

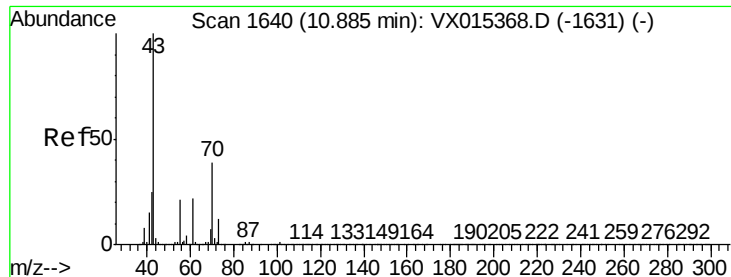
Tot Ion:117 Resp: 1682437  
Ion Ratio Lower Upper  
117 100  
82 56.8 47.8 71.8  
119 32.8 26.8 40.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. -0.00 min  
Lab File: VX015415.D  
Acq: 28 Mar 2020 05:25

Tgt Ion:152 Resp: 903917  
Ion Ratio Lower Upper  
152 100  
115 59.4 39.0 116.9  
150 156.2 0.0 340.8





#74

N-amvl acetate

Concen: 0.233 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

ZIPPER-DRAINS

Tot Ion: 43 Resp: 7673

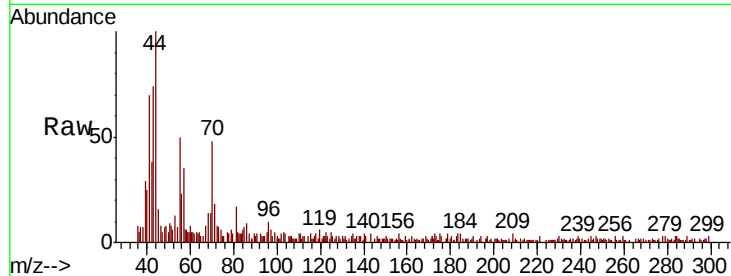
Ion Ratio Lower Upper

43 100

70 75.8 30.2 45.4#

55 80.3 16.8 25.2#

61 0.0 18.2 27.2#

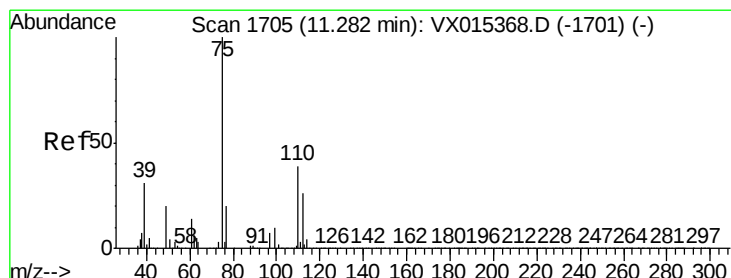
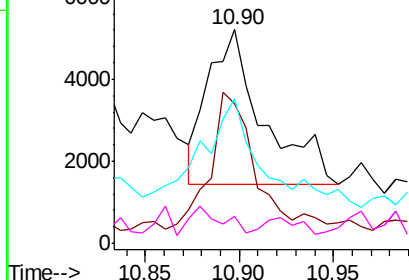
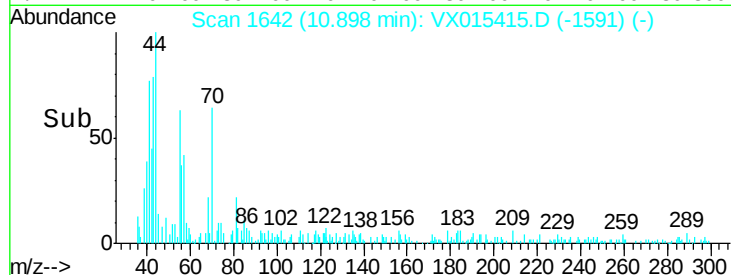


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 25.768 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015415.D

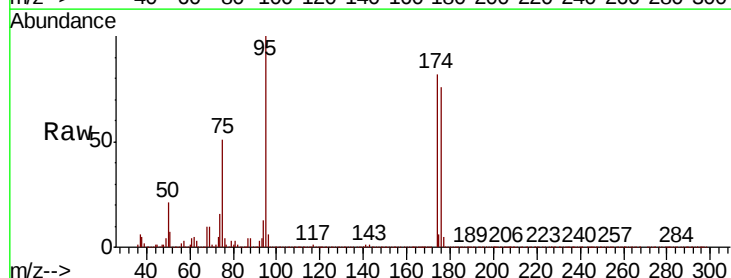
Acq: 28 Mar 2020 05:25

Tgt Ion: 75 Resp: 478984

Ion Ratio Lower Upper

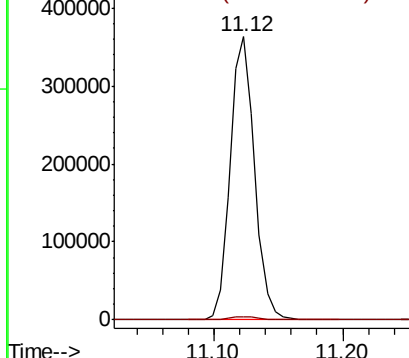
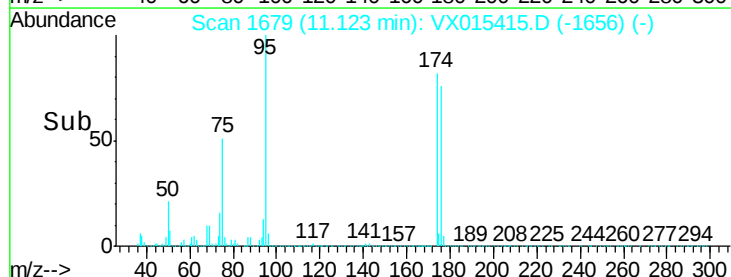
75 100

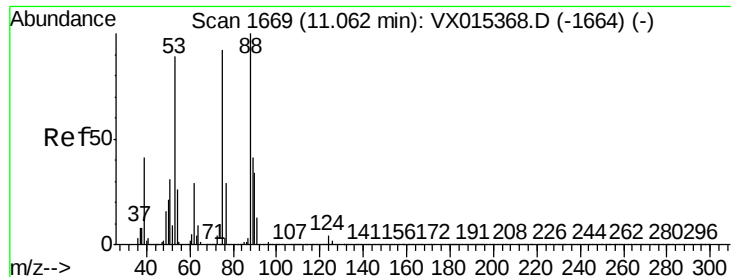
77 1.1 21.2 63.6#



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: 61.829 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015415.D

Acq: 28 Mar 2020 05:25

Instrument :

MSVOA\_X

ClientSampleId :

ZIPPER-DRAINS

Tot Ion: 75 Resp: 478984

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#

