

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\  
 Data File : VX003718.D  
 Acq On : 27 Jul 2018 15:58  
 Operator : JC/SP  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICSVX072718

Quant Time: Jul 28 02:27:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 27 16:17:43 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.02  | 128  | 22621    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.87  | 114  | 123740   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 124802   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 50028    | 30.12    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 100.40% |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 58049    | 28.89    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 96.30%  |
| 63) Toluene-d8            | 8.72   | 98    | 155617   | 27.68    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 92.27%  |

## Target Compounds

|                               |      |     |        |        |        | Ovalue |
|-------------------------------|------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 26298  | 22.01  | ug/l   | 99     |
| 3) Chloromethane              | 1.32 | 50  | 34932  | 21.72  | ug/l   | 98     |
| 4) Vinyl Chloride             | 1.40 | 62  | 36950  | 21.85  | ug/l   | 100    |
| 5) Bromomethane               | 1.64 | 94  | 25698  | 25.42  | ug/l   | 99     |
| 6) Chloroethane               | 1.72 | 64  | 23763  | 21.47  | ug/l   | 97     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 50029  | 21.99  | ug/l   | 100    |
| 8) Diethyl Ether              | 2.19 | 74  | 21788  | 22.35  | ug/l   | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 31775  | 23.04  | ug/l   | 96     |
| 10) 1,1-Dichloroethene        | 2.37 | 96  | 29416  | 22.68  | ug/l   | 92     |
| 11) Methyl Iodide             | 2.51 | 142 | 36554  | 20.33  | ug/l   | 95     |
| 12) Methyl Acetate            | 2.78 | 43  | 53604  | 22.34  | ug/l   | 96     |
| 13) Acrolein                  | 2.29 | 56  | 18898  | 100.97 | ug/l   | 99     |
| 14) Acrylonitrile             | 3.15 | 53  | 102950 | 108.88 | ug/l   | 98     |
| 15) Acetone                   | 2.45 | 58  | 27707  | 107.98 | ug/l   | 85     |
| 16) Carbon Disulfide          | 2.57 | 76  | 84002  | 23.32  | ug/l   | 99     |
| 17) Allyl chloride            | 2.73 | 41  | 59072  | 22.01  | ug/l   | 91     |
| 18) Methylene Chloride        | 2.85 | 84  | 34319  | 22.34  | ug/l   | 95     |
| 19) trans-1,2-Dichloroethene  | 3.17 | 96  | 31776  | 22.67  | ug/l   | 97     |
| 20) Diisopropyl ether         | 3.87 | 45  | 110783 | 22.48  | ug/l   | 99     |
| 21) 1,1-Dichloroethane        | 3.70 | 63  | 60720  | 21.76  | ug/l   | 98     |
| 22) cis-1,2-Dichloroethene    | 4.60 | 96  | 29988  | 21.18  | ug/l # | 77     |
| 23) tert-Butyl Alcohol        | 3.07 | 59  | 42737  | 107.60 | ug/l # | 100    |
| 24) Methyl tert-Butyl Ether   | 3.21 | 73  | 104479 | 22.46  | ug/l   | 91     |
| 25) Chloroform                | 5.21 | 83  | 49389  | 20.44  | ug/l   | 98     |
| 26) Cyclohexane               | 5.57 | 56  | 43618  | 20.81  | ug/l # | 99     |
| 29) 1,1-Dichloropropene       | 5.80 | 75  | 38132  | 20.87  | ug/l   | 99     |
| 30) 2-Butanone                | 4.71 | 43  | 116477 | 99.82  | ug/l   | 96     |
| 31) 2,2-Dichloropropane       | 4.58 | 77  | 40576  | 22.92  | ug/l   | 99     |
| 32) 1,1,1-Trichloroethane     | 5.49 | 97  | 42223  | 20.20  | ug/l   | 99     |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 35533  | 19.56  | ug/l   | 92     |
| 34) Benzene                   | 6.15 | 78  | 111102 | 19.79  | ug/l   | 99     |
| 35) Methacrylonitrile         | 5.07 | 41  | 24232  | 19.98  | ug/l   | 94     |
| 36) 1,2-Dichloroethane        | 6.20 | 62  | 39645  | 19.65  | ug/l   | 99     |
| 37) Trichloroethene           | 7.21 | 130 | 32064  | 21.91  | ug/l   | 93     |
| 38) Methylcyclohexane         | 7.46 | 83  | 43825  | 21.11  | ug/l   | 99     |
| 39) 1,2-Dichloropropane       | 7.52 | 63  | 29083  | 19.60  | ug/l   | 96     |
| 40) Dibromomethane            | 7.67 | 93  | 18923  | 19.71  | ug/l   | 95     |

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 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

Quant Time: Jul 28 02:27:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 27 16:17:43 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 41) Bromodichloromethane       | 7.90  | 83   | 34900    | 19.03  | ug/l   | 98       |
| 42) Vinyl Acetate              | 3.82  | 43   | 479368   | 106.91 | ug/l   | 99       |
| 43) Ethyl Acetate              | 4.87  | 43   | 43899    | 20.14  | ug/l   | 98       |
| 44) Isopropyl Acetate          | 6.47  | 43   | 66471    | 19.88  | ug/l   | 98       |
| 45) 1,4-Dioxane                | 7.76  | 88   | 13888    | 374.05 | ug/l # | 89       |
| 46) Methyl methacrylate        | 7.78  | 41   | 33956    | 19.69  | ug/l   | 94       |
| 47) n-amyl Acetate             | 10.90 | 43   | 61452    | 19.47  | ug/l # | 89       |
| 48) t-1,3-Dichloropropene      | 8.44  | 75   | 45502    | 20.44  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene    | 9.04  | 75   | 39607    | 18.97  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane      | 9.22  | 97   | 28093    | 18.43  | ug/l   | 98       |
| 51) Ethyl methacrylate         | 9.18  | 69   | 42038    | 18.32  | ug/l   | 93       |
| 52) 1,3-Dichloropropane        | 9.37  | 76   | 48857    | 19.26  | ug/l   | 100      |
| 53) Dibromochloromethane       | 9.59  | 129  | 27289    | 18.23  | ug/l   | 99       |
| 54) 1,2-Dibromoethane          | 9.68  | 107  | 29079    | 18.24  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether  | 8.32  | 63   | 100949   | 85.29  | ug/l   | 99       |
| 56) Bromoform                  | 10.86 | 173  | 20119    | 17.32  | ug/l   | 100      |
| 58) 4-Methyl-2-Pentanone       | 8.65  | 43   | 232390   | 98.62  | ug/l   | 95       |
| 59) 2-Hexanone                 | 9.50  | 43   | 172301   | 91.83  | ug/l   | 97       |
| 61) Tetrachloroethene          | 9.34  | 164  | 26164    | 18.01  | ug/l   | 97       |
| 62) Toluene                    | 8.79  | 91   | 121829   | 18.81  | ug/l   | 99       |
| 64) Chlorobenzene              | 10.14 | 112  | 81940    | 19.57  | ug/l   | 99       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 27082    | 18.28  | ug/l   | 98       |
| 66) Ethyl Benzene              | 10.26 | 91   | 135653   | 19.03  | ug/l   | 99       |
| 67) m/p-Xylenes                | 10.36 | 106  | 103494   | 37.70  | ug/l   | 99       |
| 68) o-Xylene                   | 10.70 | 106  | 48972    | 18.64  | ug/l   | 98       |
| 69) Styrene                    | 10.71 | 104  | 83304    | 18.73  | ug/l   | 97       |
| 70) Isopropylbenzene           | 11.02 | 105  | 140212   | 19.39  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.27 | 83   | 47286    | 18.32  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane     | 11.30 | 75   | 58379    | 27.18  | ug/l   | 94       |
| 73) Bromobenzene               | 11.26 | 156  | 35519    | 18.22  | ug/l   | 98       |
| 74) n-propylbenzene            | 11.36 | 91   | 179893   | 21.12  | ug/l   | 99       |
| 75) 2-Chlorotoluene            | 11.43 | 91   | 104118   | 20.74  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 124690   | 20.32  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene    | 11.08 | 75   | 13306    | 18.18  | ug/l   | 91       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 121603   | 20.70  | ug/l   | 100      |
| 79) tert-butylbenzene          | 12.07 | 119  | 130815   | 20.72  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 121205   | 19.30  | ug/l   | 100      |
| 81) sec-Butylbenzene           | 11.95 | 105  | 140630   | 19.68  | ug/l   | 98       |
| 82) p-Isopropyltoluene         | 12.07 | 119  | 130815   | 20.72  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene        | 12.03 | 146  | 73012    | 20.51  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene        | 12.10 | 146  | 72592    | 20.26  | ug/l   | 99       |
| 85) n-Butylbenzene             | 12.39 | 91   | 119101   | 21.25  | ug/l   | 99       |
| 86) Hexachloroethane           | 12.60 | 117  | 20280    | 19.93  | ug/l   | 98       |
| 87) 1,2-Dichlorobenzene        | 12.40 | 146  | 73355    | 20.53  | ug/l   | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 13.01 | 75   | 10497    | 19.26  | ug/l   | 99       |
| 89) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 47308    | 18.86  | ug/l   | 99       |
| 90) Hexachlorobutadiene        | 13.79 | 225  | 22666    | 19.93  | ug/l   | 99       |
| 91) Naphthalene                | 13.84 | 128  | 140402   | 18.31  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 47685    | 18.67  | ug/l   | 100      |

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Operator : JC/SP  
Sample : VSTDICV020  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

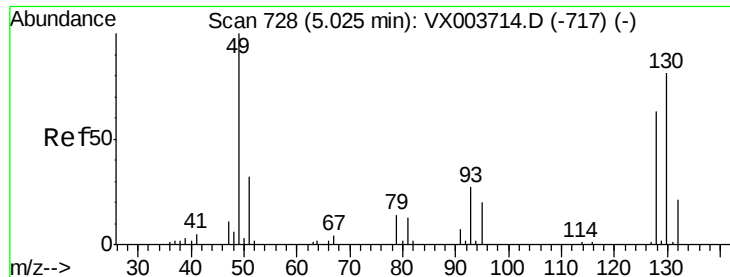
Quant Time: Jul 28 02:27:56 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jul 27 16:17:43 2018  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

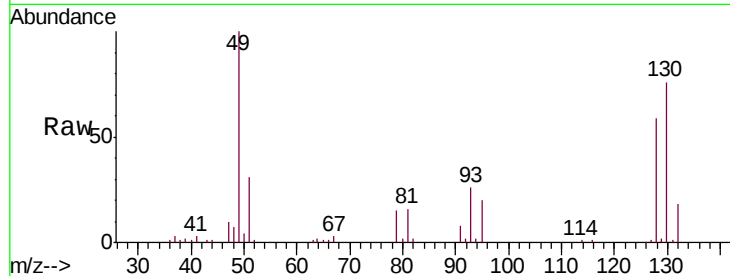
Tot Ion:128 Resp: 22621

Ion Ratio Lower Upper

128 100

49 169.9 0.0 423.0

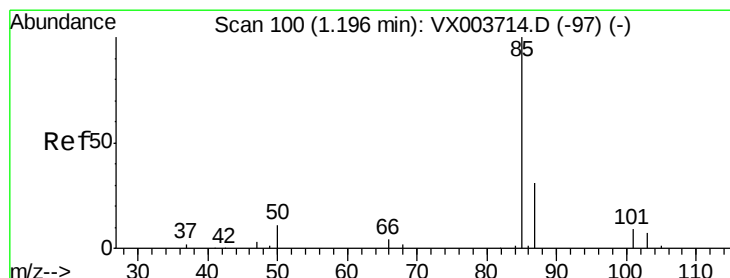
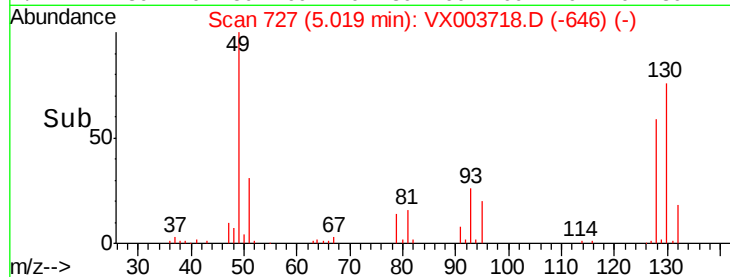
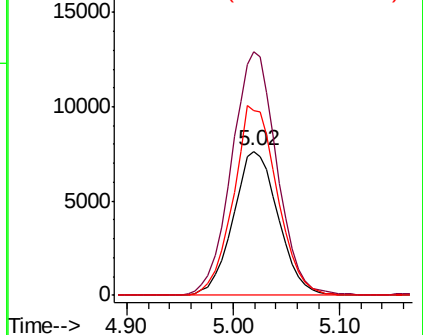
130 128.9 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 22.01 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003718.D

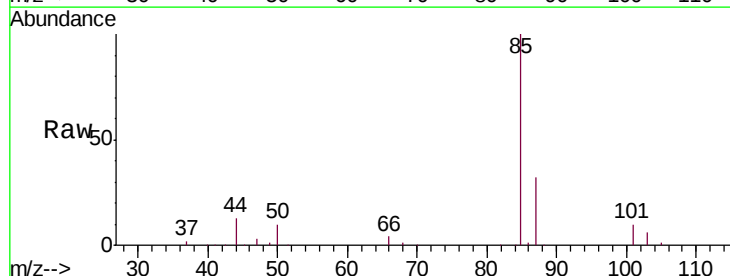
Acq: 27 Jul 2018 15:58

Tgt Ion: 85 Resp: 26298

Ion Ratio Lower Upper

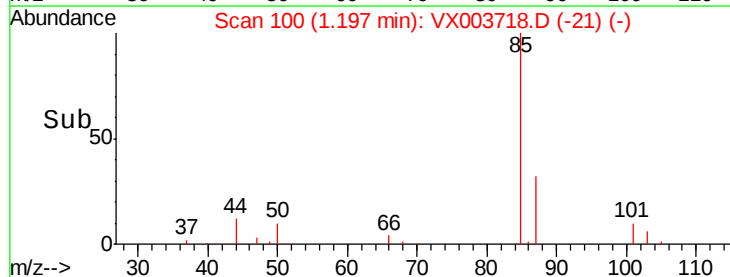
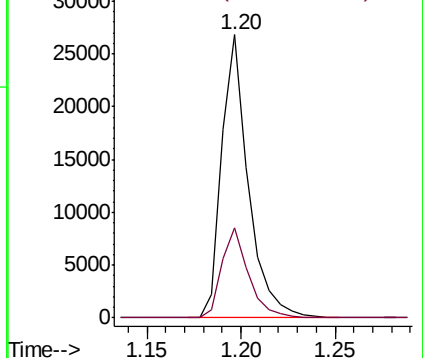
85 100

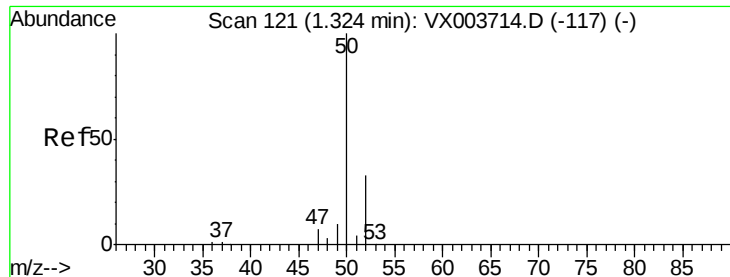
87 32.0 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

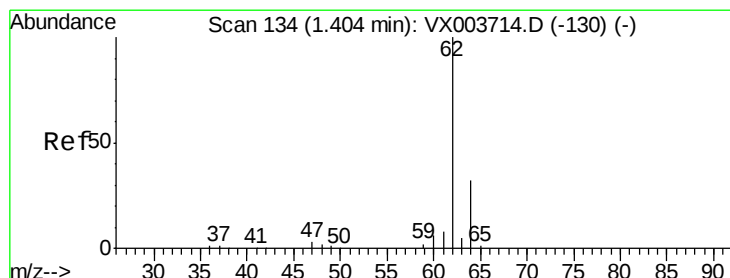
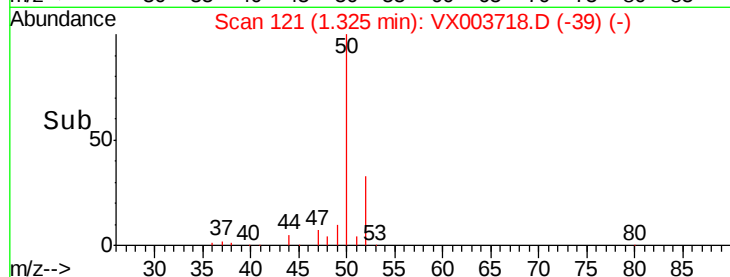
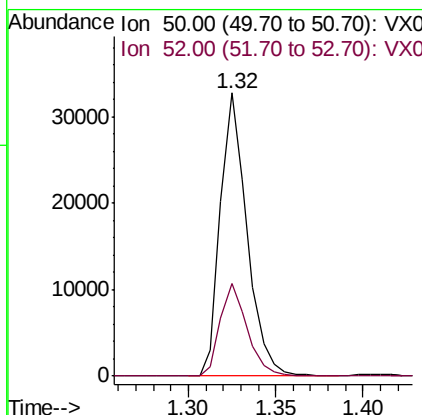
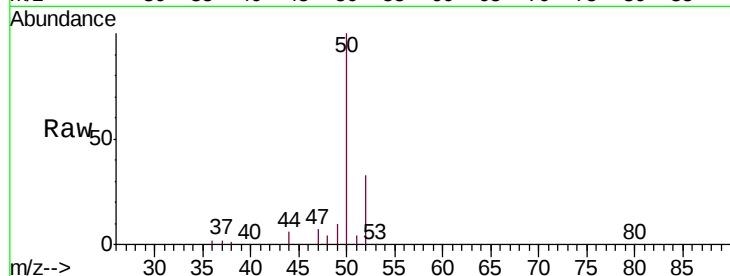




#3  
Chloromethane  
Concen: 21.72 ug/l  
RT: 1.32 min Scan# 121  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

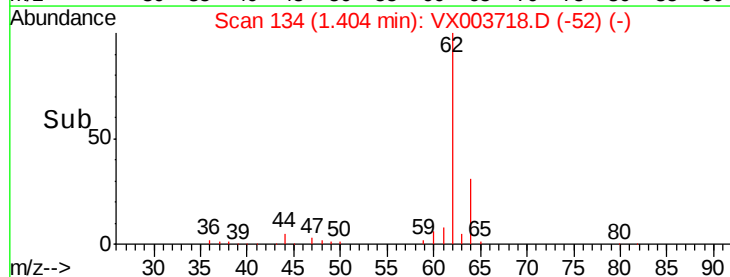
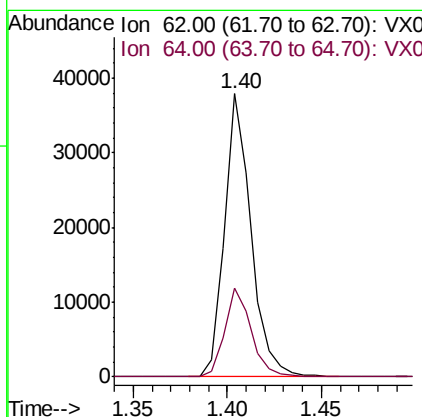
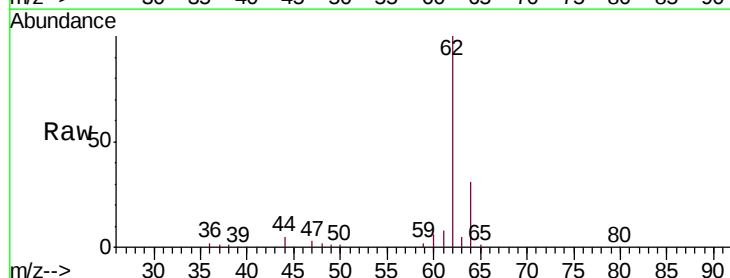
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

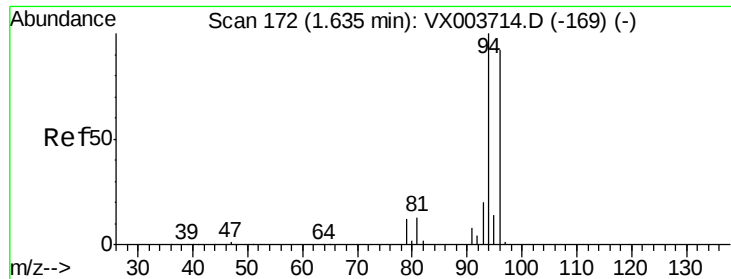
Tot Ion: 50 Resp: 34932  
Ion Ratio Lower Upper  
50 100  
52 32.9 25.6 38.4



#4  
Vinyl Chloride  
Concen: 21.85 ug/l  
RT: 1.40 min Scan# 134  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 62 Resp: 36950  
Ion Ratio Lower Upper  
62 100  
64 31.3 25.3 37.9





#5

Bromomethane

Concen: 25.42 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

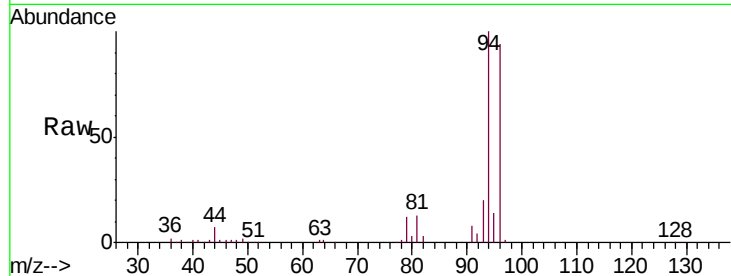
ICVVX072718

Tot Ion: 94 Resp: 25698

Ion Ratio Lower Upper

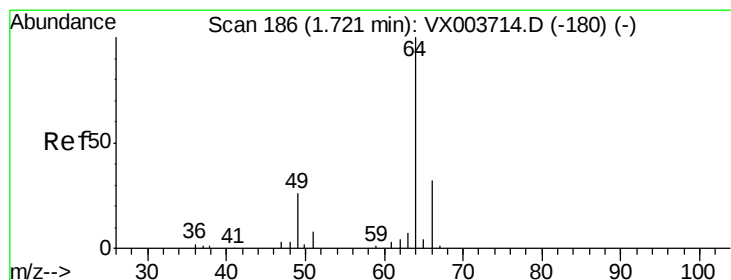
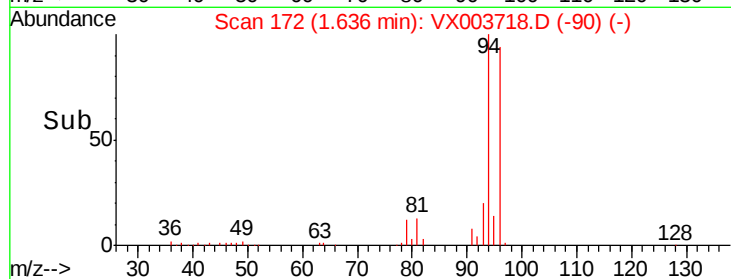
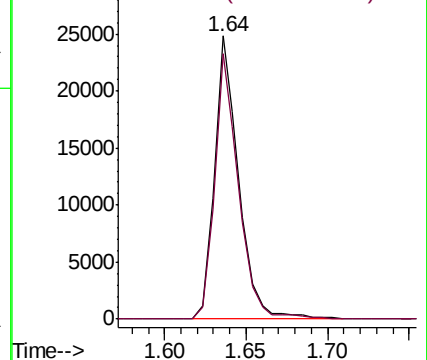
94 100

96 93.7 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 21.47 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX003718.D

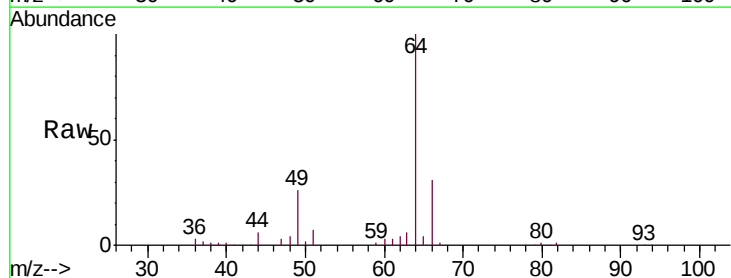
Acq: 27 Jul 2018 15:58

Tgt Ion: 64 Resp: 23763

Ion Ratio Lower Upper

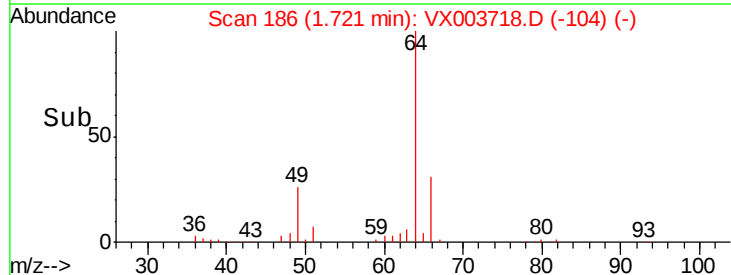
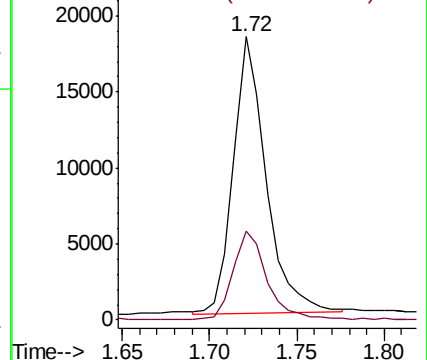
64 100

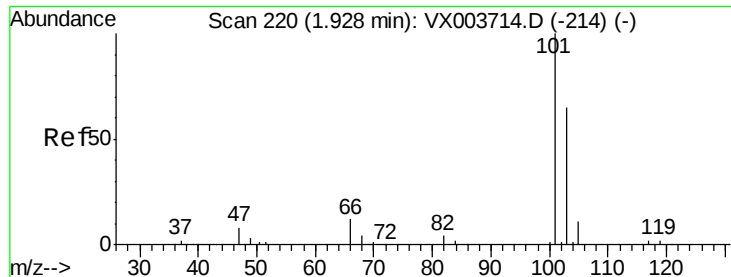
66 32.0 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



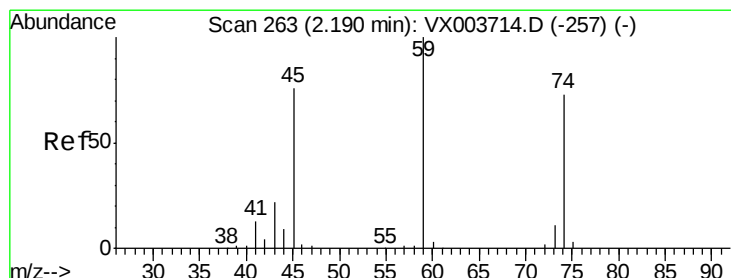
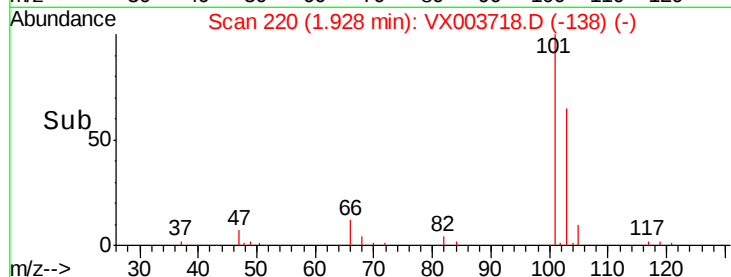
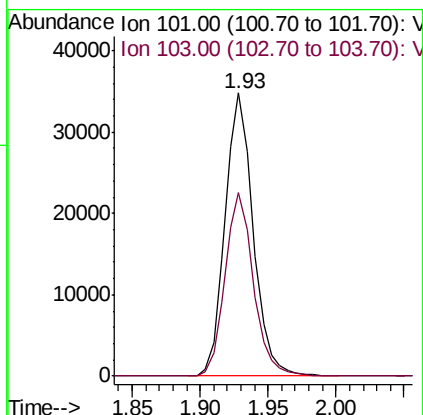
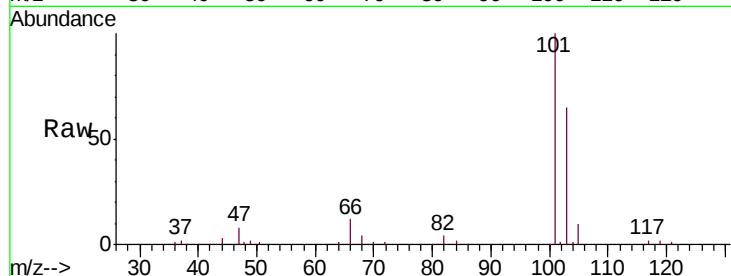


#7

Trichlorofluoromethane  
Concen: 21.99 ug/l  
RT: 1.93 min Scan# 220  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

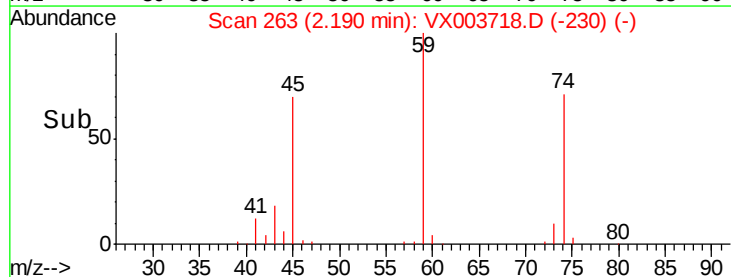
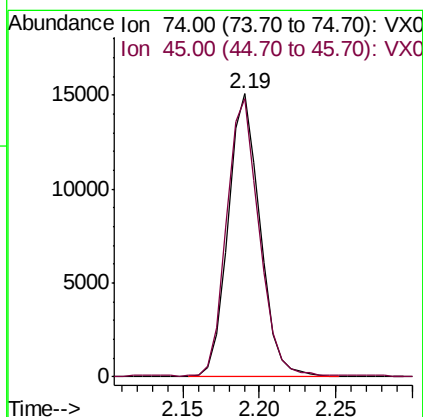
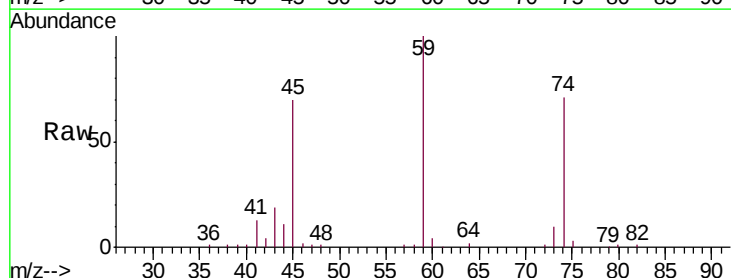
Tot Ion:101 Resp: 50029  
Ion Ratio Lower Upper  
101 100  
103 64.8 51.5 77.3

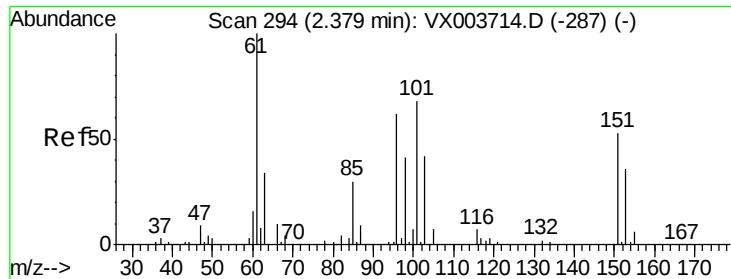


#8

Diethyl Ether  
Concen: 22.35 ug/l  
RT: 2.19 min Scan# 263  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 74 Resp: 21788  
Ion Ratio Lower Upper  
74 100  
45 100.0 20.5 184.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.04 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

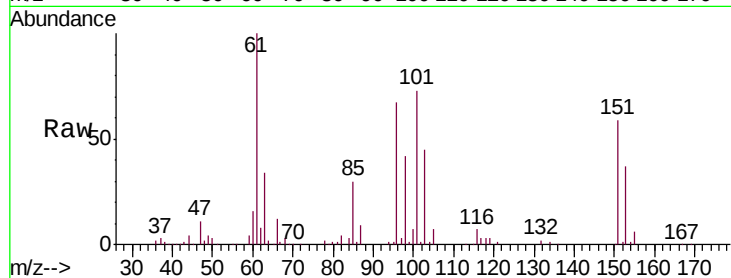
Tot Ion:101 Resp: 31775

Ion Ratio Lower Upper

101 100

85 42.4 0.0 87.0

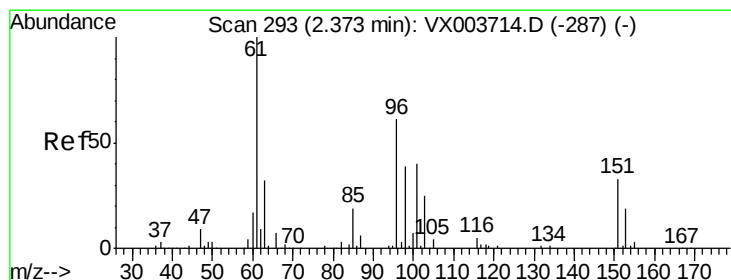
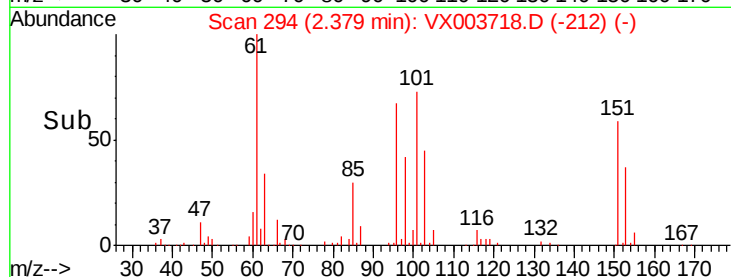
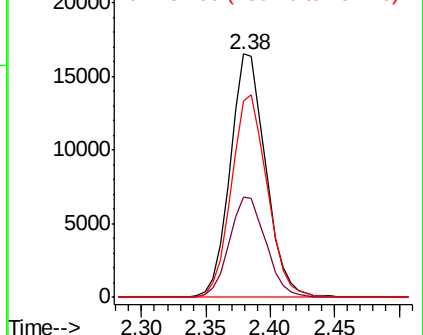
151 83.8 0.0 177.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 22.68 ug/l

RT: 2.37 min Scan# 293

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

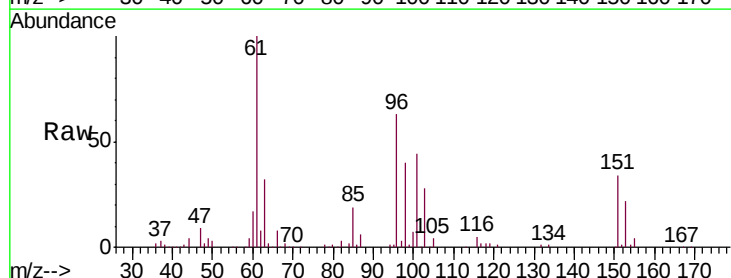
Tgt Ion: 96 Resp: 29416

Ion Ratio Lower Upper

96 100

61 157.7 137.5 206.3

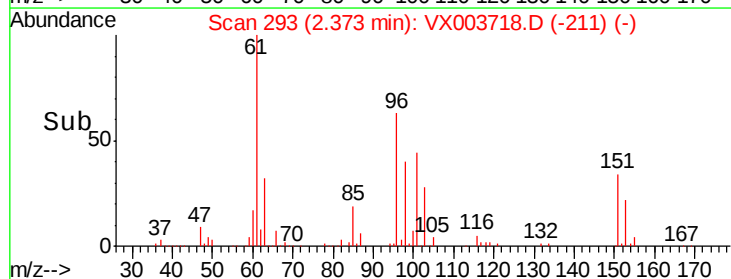
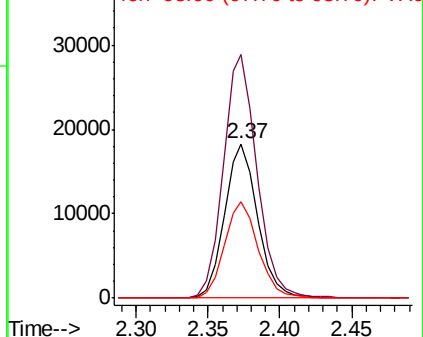
98 62.9 51.4 77.2

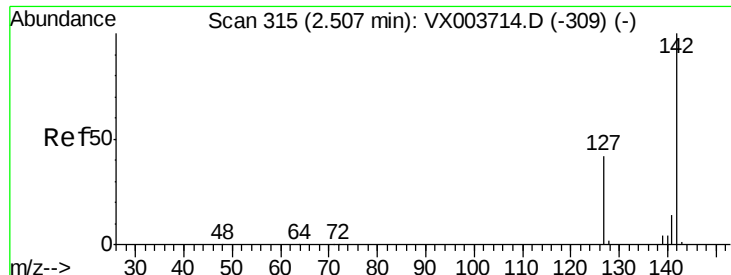


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

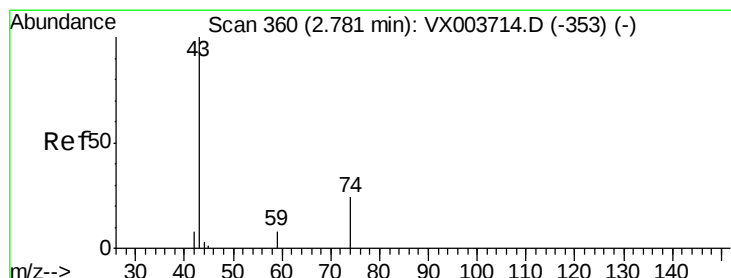
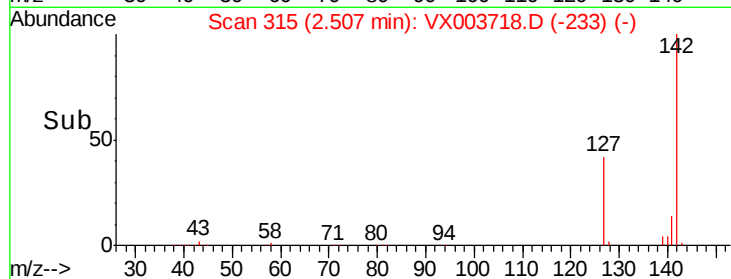
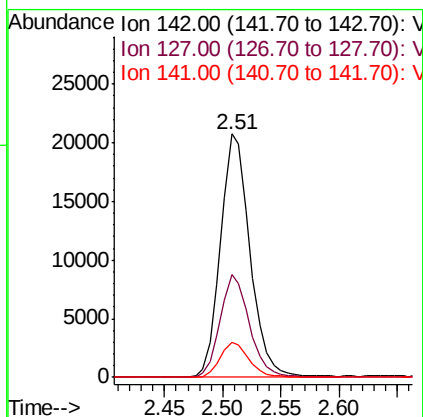
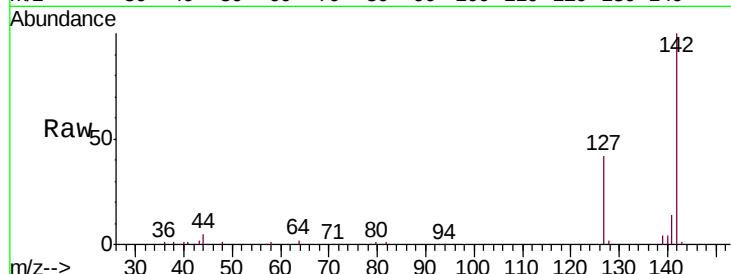




#11  
Methyl Iodide  
Concen: 20.33 ug/l  
RT: 2.51 min Scan# 315  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

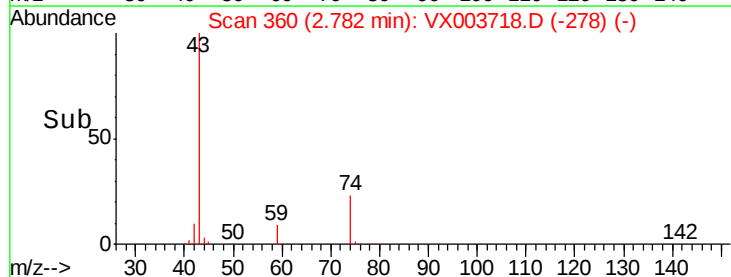
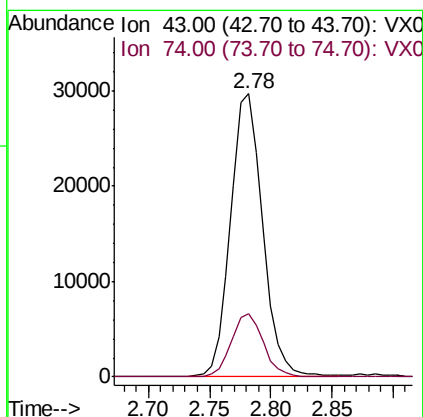
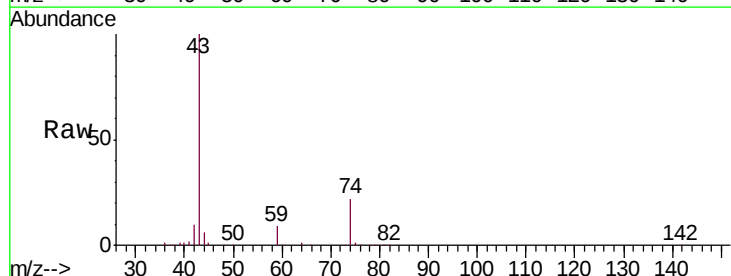
Instrument :  
MSVOA\_X  
ClientSampled :  
ICVVX072718

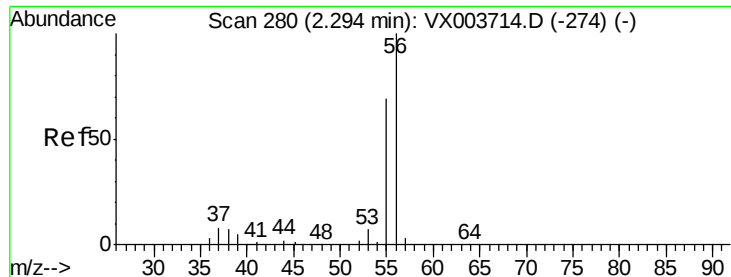
Tot Ion:142 Resp: 36554  
Ion Ratio Lower Upper  
142 100  
127 42.3 23.2 69.6  
141 14.3 7.4 22.2



#12  
Methyl Acetate  
Concen: 22.34 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 43 Resp: 53604  
Ion Ratio Lower Upper  
43 100  
74 22.5 16.4 24.6





#13

Acrolein

Concen: 100.97 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampled :

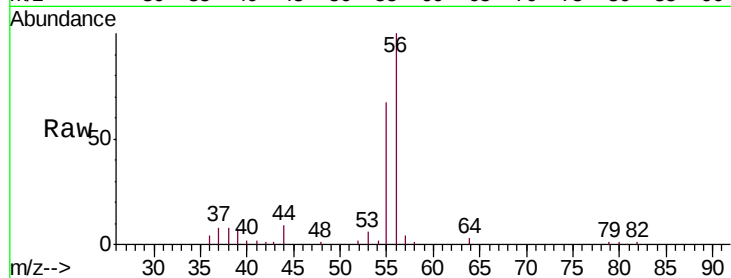
ICVVX072718

Tot Ion: 56 Resp: 18898

Ion Ratio Lower Upper

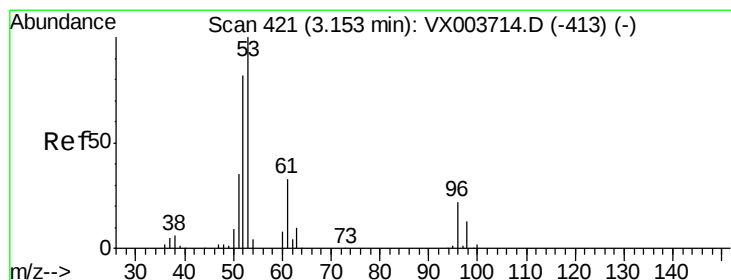
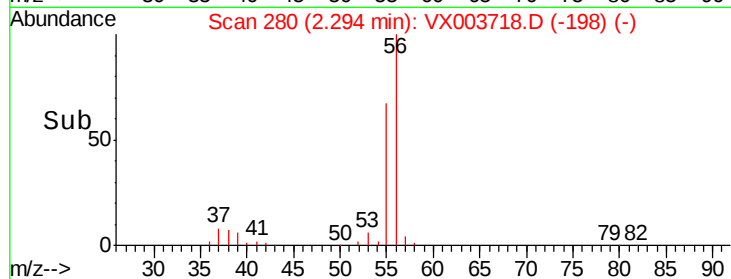
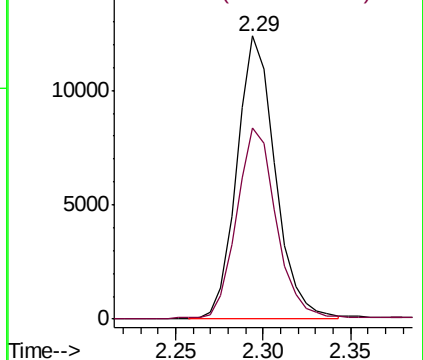
56 100

55 70.4 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Acrylonitrile

Concen: 108.88 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

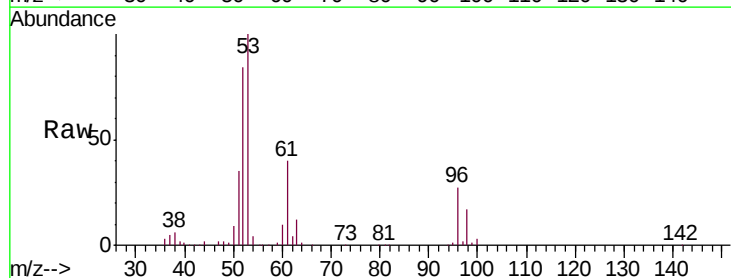
Tgt Ion: 53 Resp: 102950

Ion Ratio Lower Upper

53 100

52 81.6 41.5 124.6

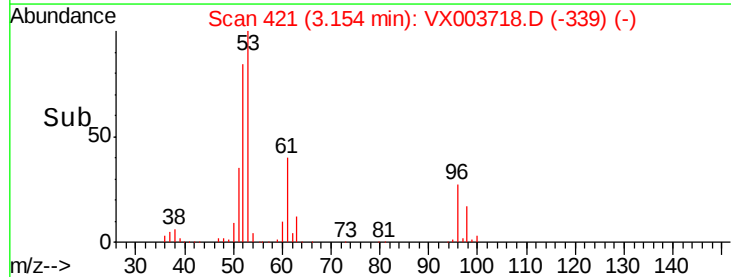
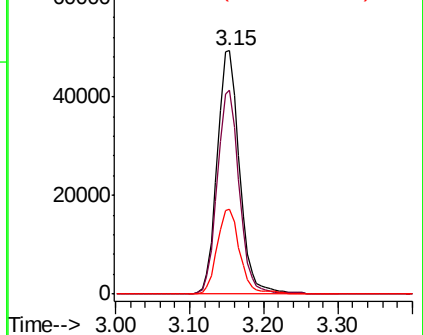
51 34.1 17.9 53.8

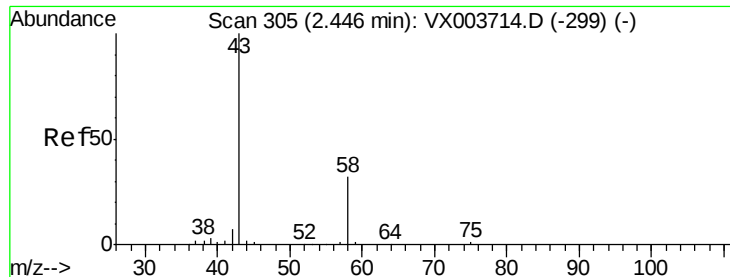


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 107.98 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

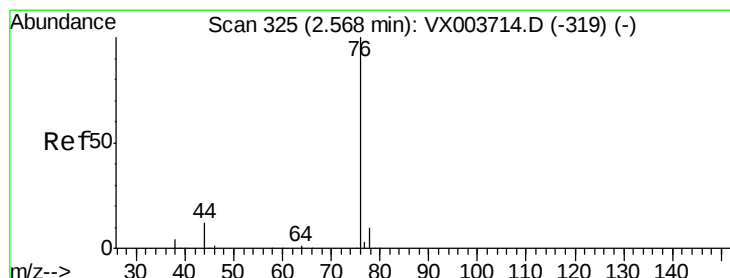
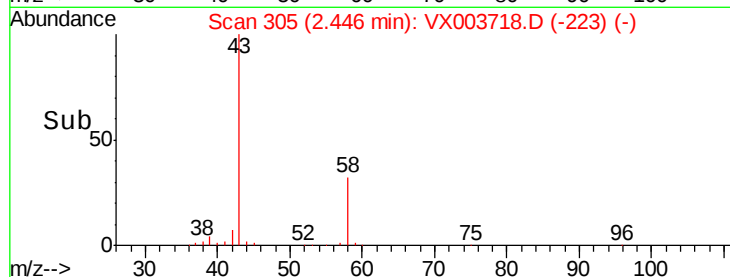
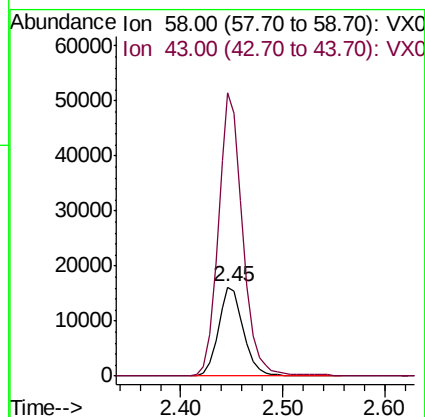
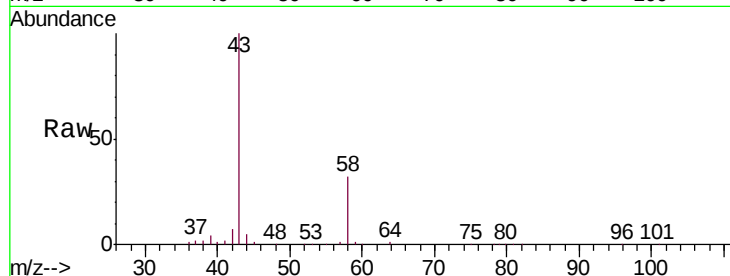
ICVVX072718

Tot Ion: 58 Resp: 27707

Ion Ratio Lower Upper

58 100

43 316.3 278.8 418.2



#16

Carbon Disulfide

Concen: 23.32 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003718.D

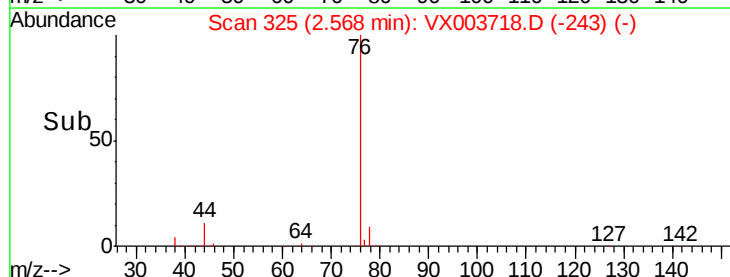
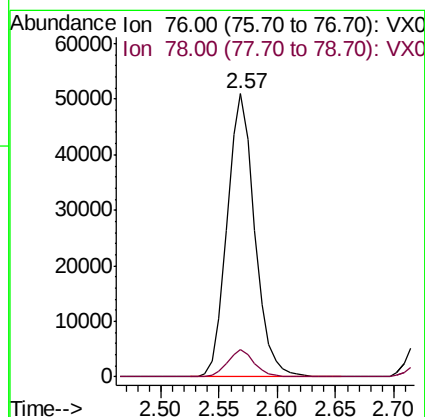
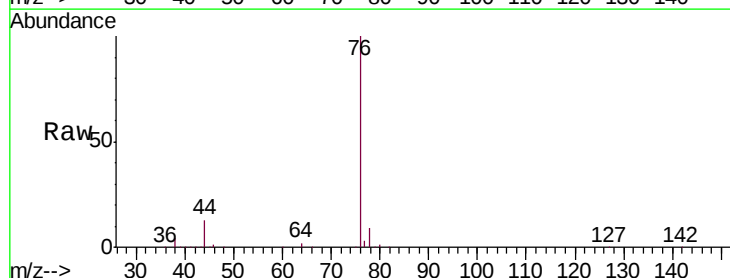
Acq: 27 Jul 2018 15:58

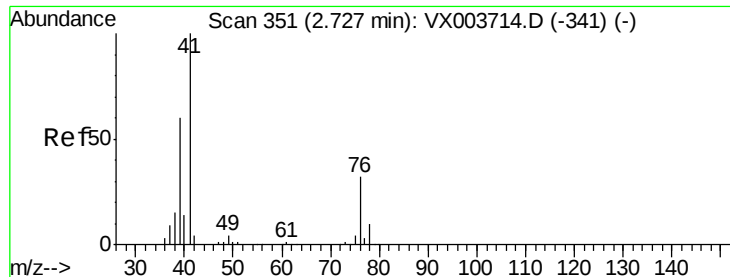
Tgt Ion: 76 Resp: 84002

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.0

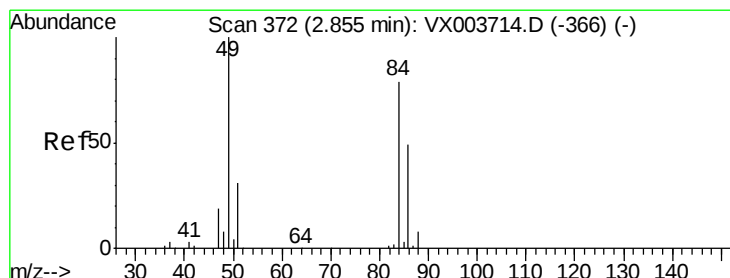
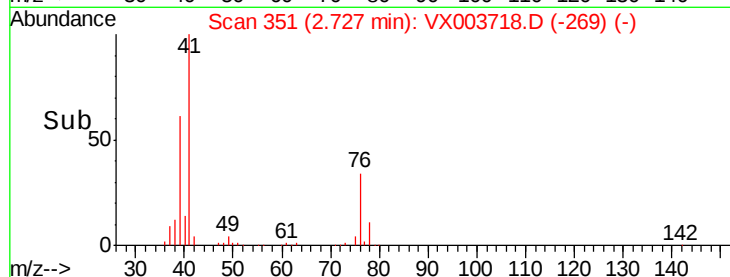
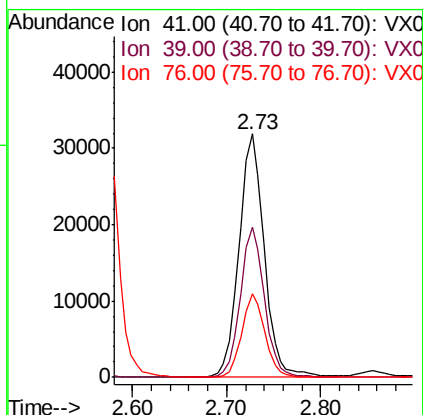
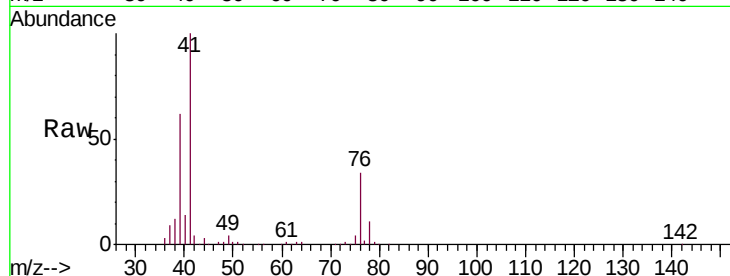




#17  
Allvl chloride  
Concen: 22.01 ug/l  
RT: 2.73 min Scan# 351  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

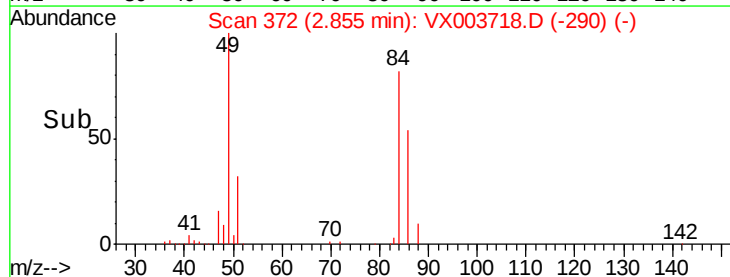
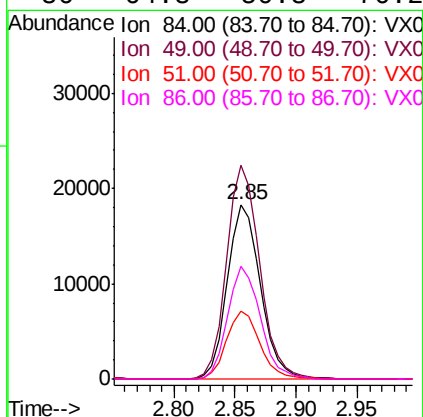
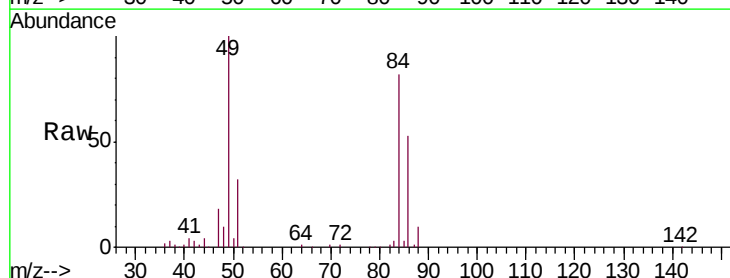
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

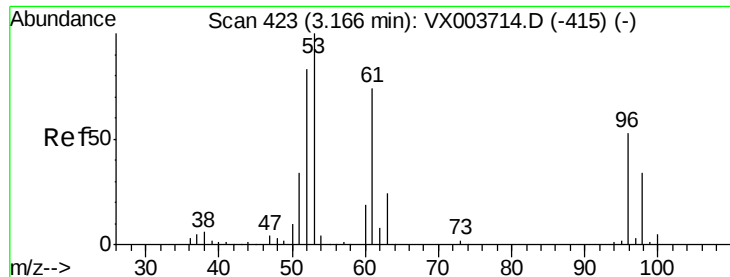
Tot Ion: 41 Resp: 59072  
Ion Ratio Lower Upper  
41 100  
39 61.4 34.6 103.8  
76 34.3 15.0 45.1



#18  
Methylene Chloride  
Concen: 22.34 ug/l  
RT: 2.85 min Scan# 372  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 84 Resp: 34319  
Ion Ratio Lower Upper  
84 100  
49 122.3 104.7 157.1  
51 38.6 31.0 46.4  
86 64.8 50.8 76.2

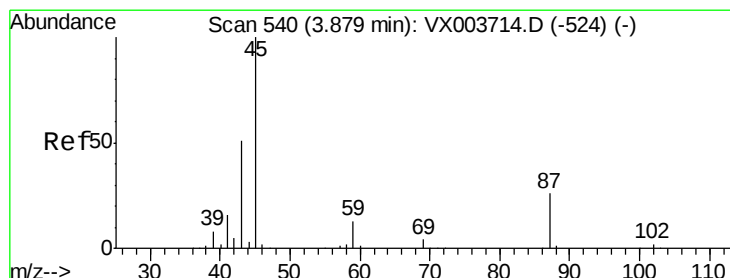
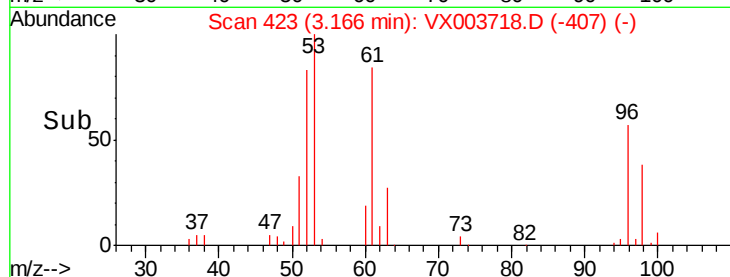
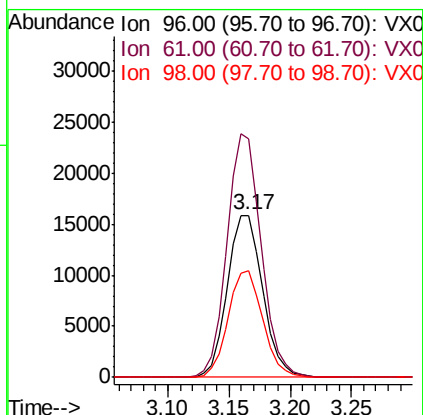
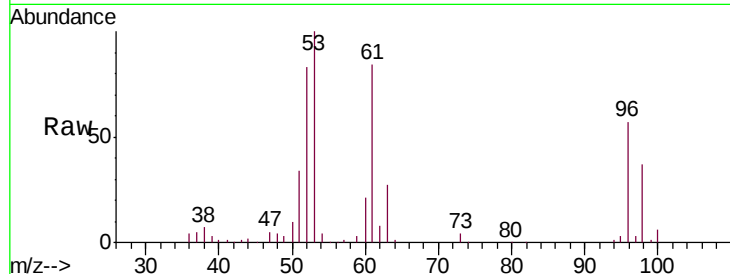




#19  
trans-1,2-Dichloroethene  
Concen: 22.67 ug/l  
RT: 3.17 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

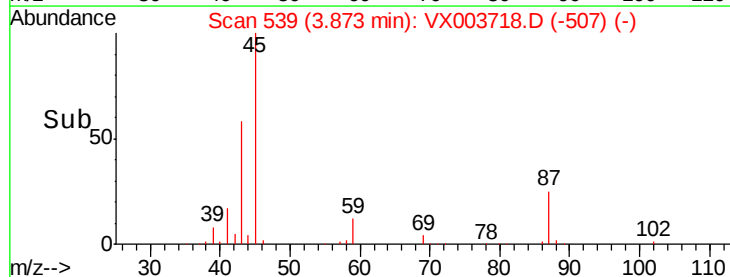
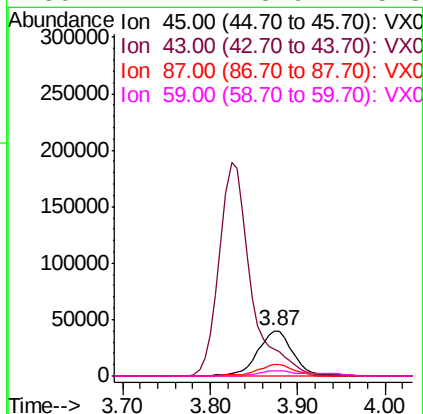
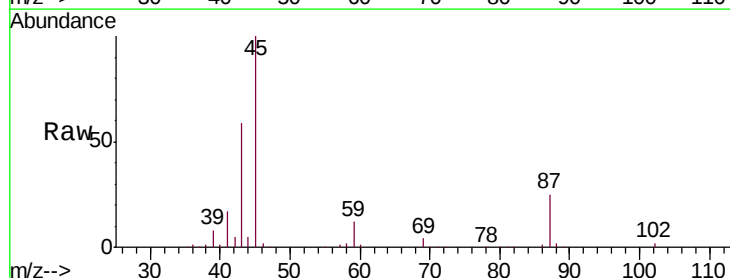
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

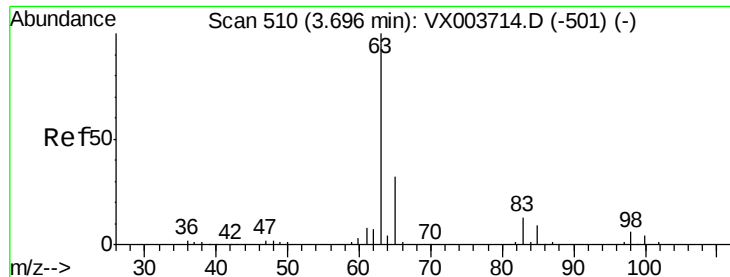
Tot Ion: 96 Resp: 31776  
Ion Ratio Lower Upper  
96 100  
61 147.0 114.6 172.0  
98 65.7 51.3 76.9



#20  
Diisopropyl ether  
Concen: 22.48 ug/l  
RT: 3.87 min Scan# 539  
Delta R.T. -0.01 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 45 Resp: 110783  
Ion Ratio Lower Upper  
45 100  
43 57.4 45.6 68.4  
87 25.1 20.7 31.1  
59 11.7 8.9 13.3





#21

1,1-Dichloroethane

Concen: 21.76 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

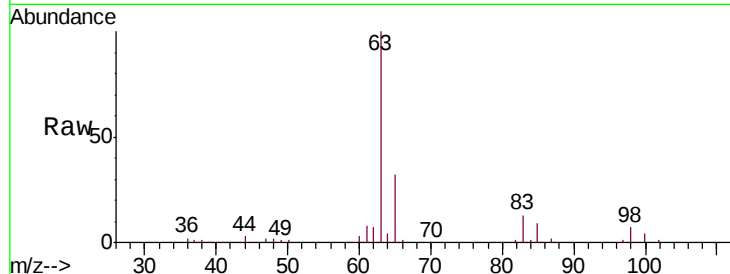
Tot Ion: 63 Resp: 60720

Ion Ratio Lower Upper

63 100

98 6.7 3.1 9.3

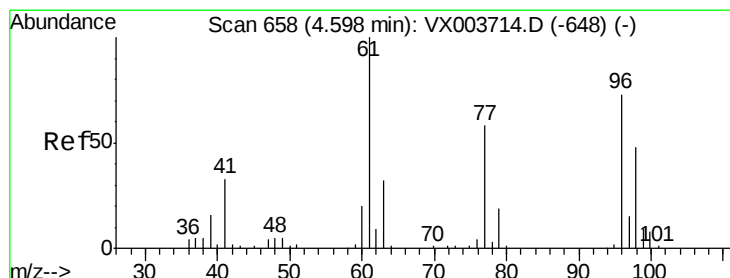
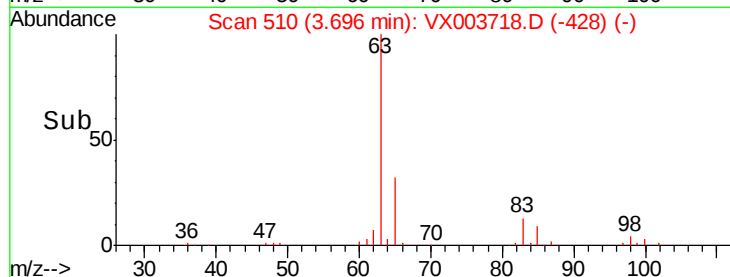
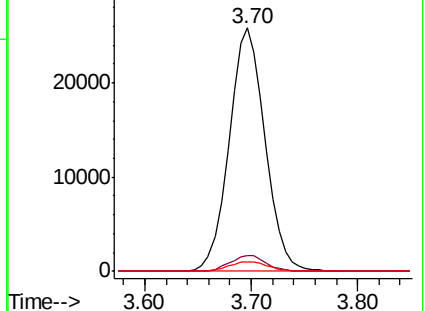
100 3.8 2.2 6.6



Abundance Ion 63.00 (62.70 to 63.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#22

cis-1,2-Dichloroethene

Concen: 21.18 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

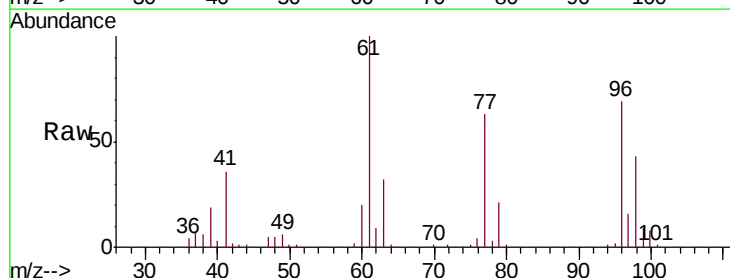
Tgt Ion: 96 Resp: 29988

Ion Ratio Lower Upper

96 100

61 155.2 160.2 240.2#

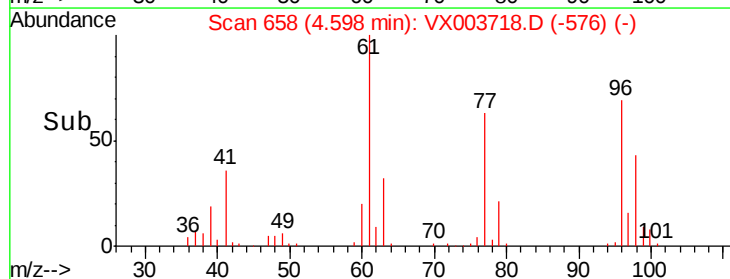
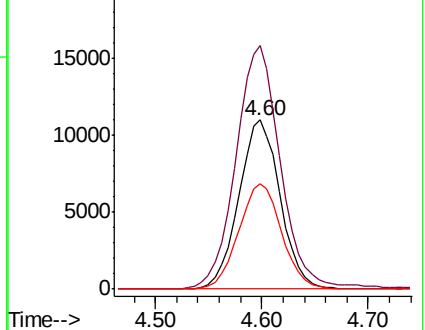
98 64.3 54.1 81.1

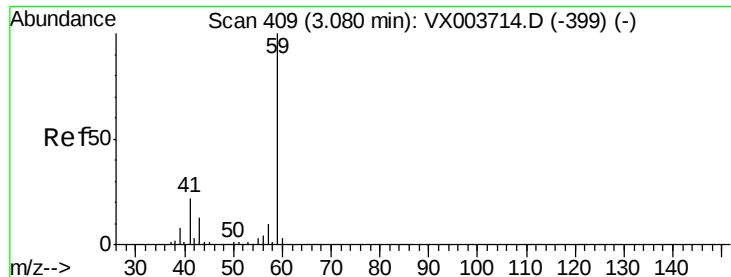


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#23

tert-Butyl Alcohol

Concen: 107.60 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

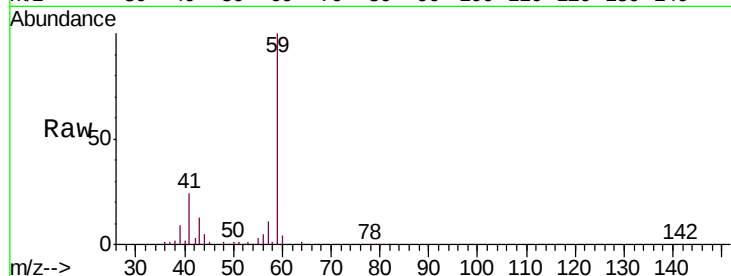
ICVVX072718

Tot Ion: 59 Resp: 42737

Ion Ratio Lower Upper

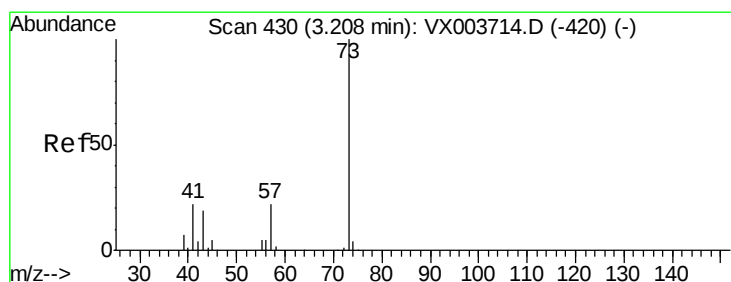
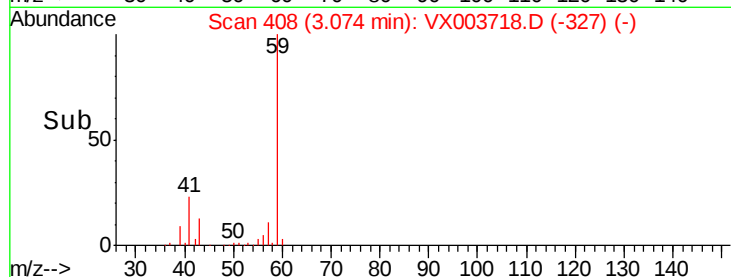
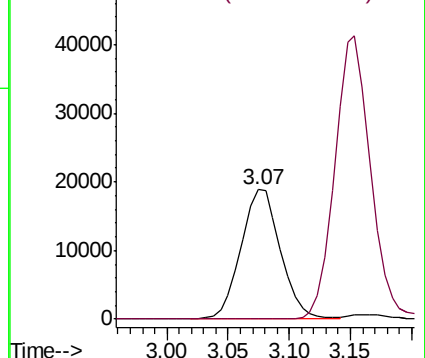
59 100

52 0.1 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#24

Methyl tert-Butyl Ether

Concen: 22.46 ug/l

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX003718.D

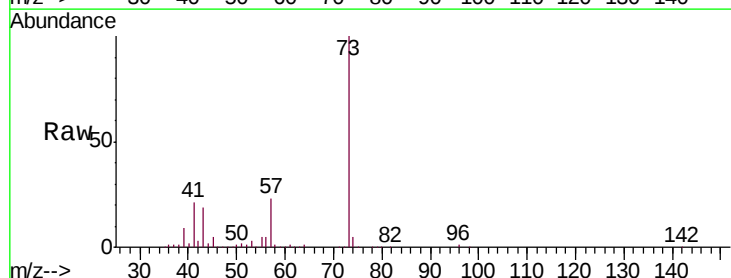
Acq: 27 Jul 2018 15:58

Tgt Ion: 73 Resp: 104479

Ion Ratio Lower Upper

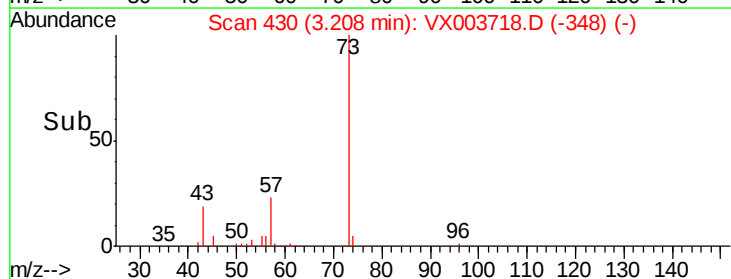
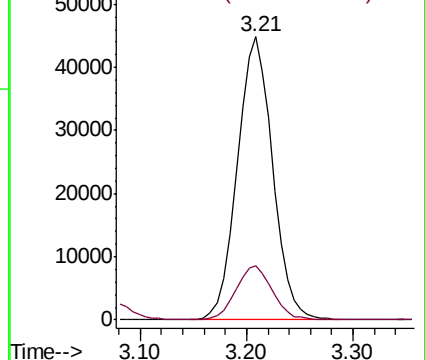
73 100

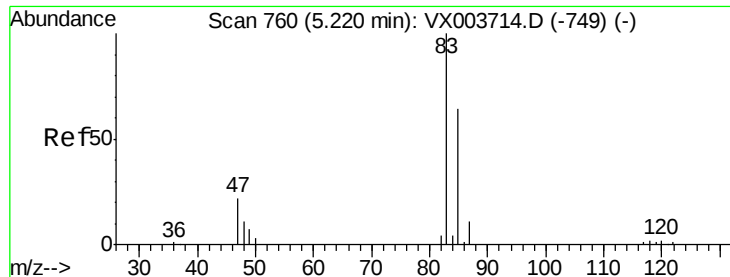
43 19.4 19.0 28.4



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

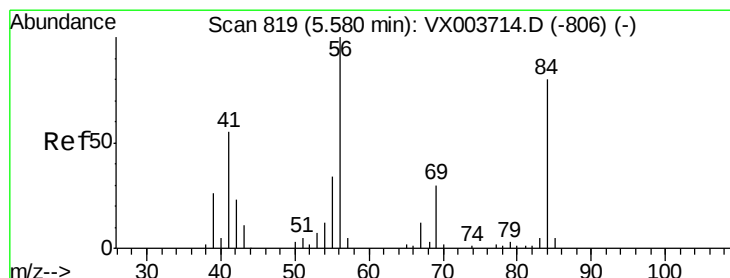
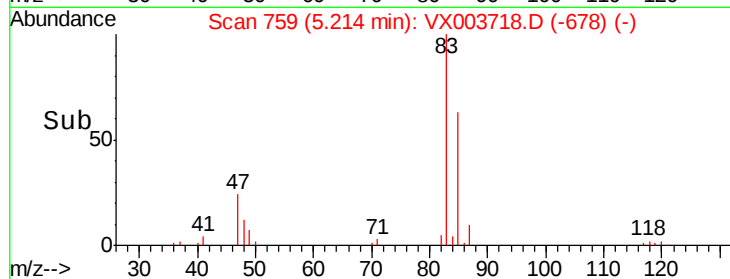
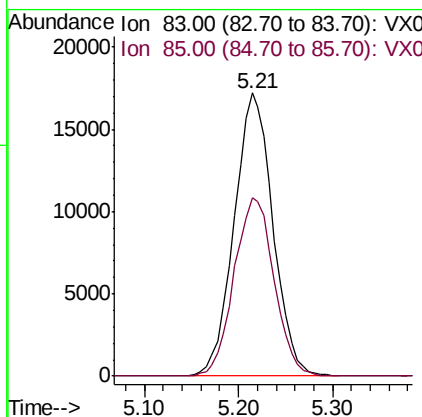
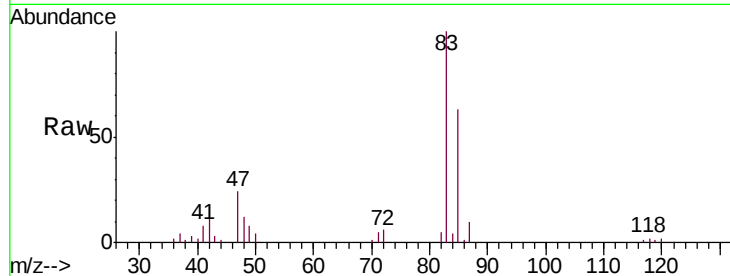




#25  
Chloroform  
Concen: 20.44 ug/l  
RT: 5.21 min Scan# 759  
Delta R.T. -0.01 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

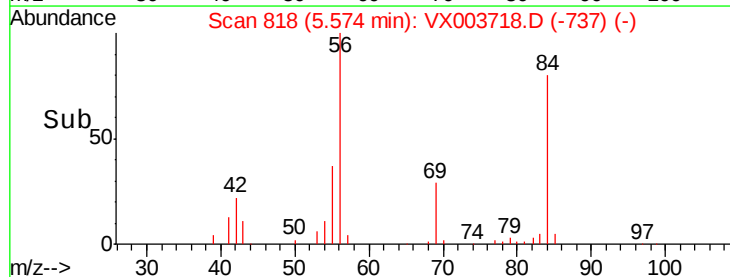
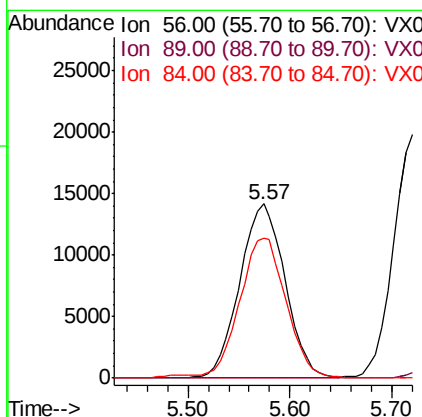
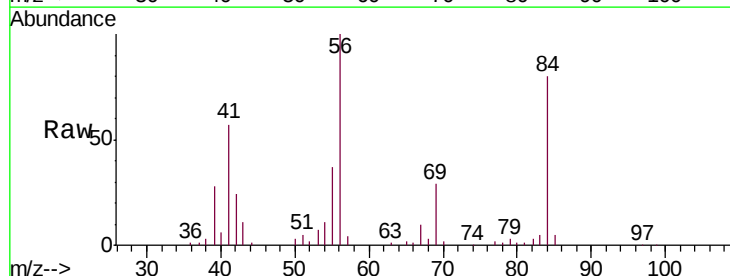
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

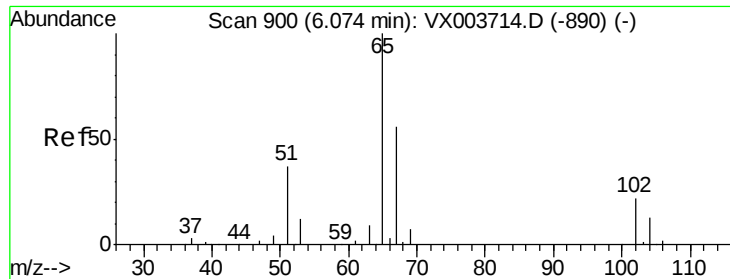
Tot Ion: 83 Resp: 49389  
Ion Ratio Lower Upper  
83 100  
85 63.1 51.9 77.9



#26  
Cyclohexane  
Concen: 20.81 ug/l  
RT: 5.57 min Scan# 818  
Delta R.T. -0.01 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 56 Resp: 43618  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.1 0.1#  
84 82.4 64.9 97.3

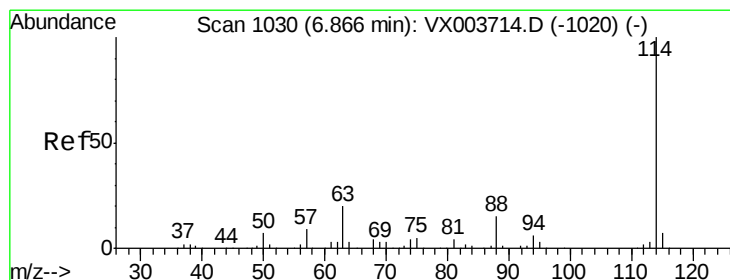
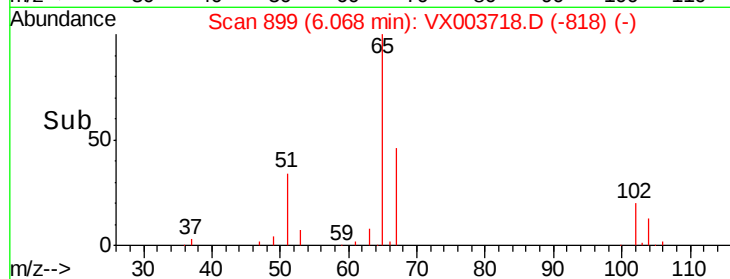
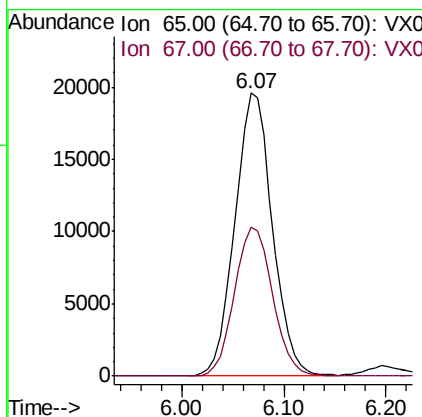
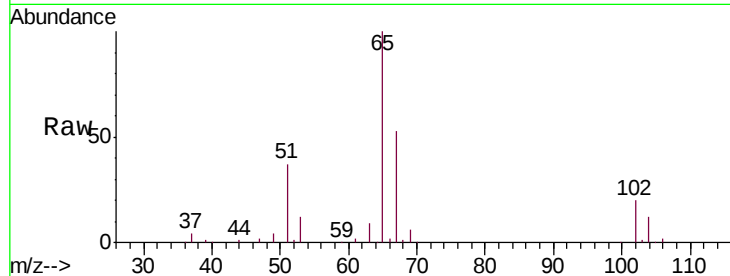




#27  
 1,2-Dichloroethane-d4  
 Concen: 30.12 ug/l  
 RT: 6.07 min Scan# 899  
 Delta R.T. -0.01 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

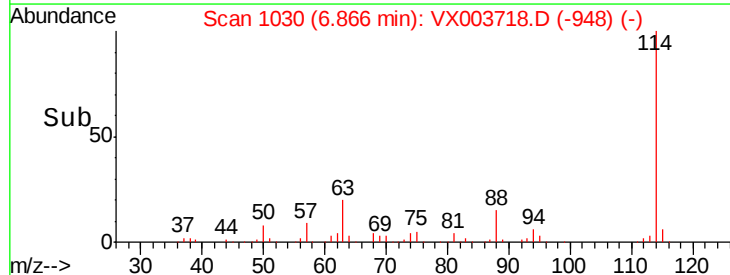
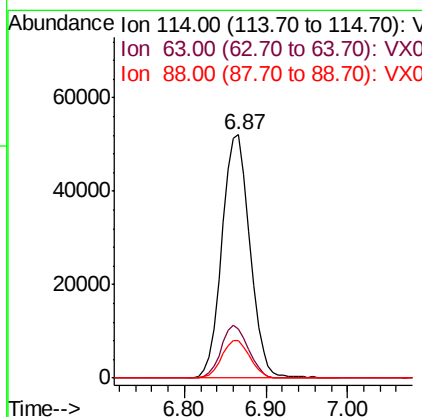
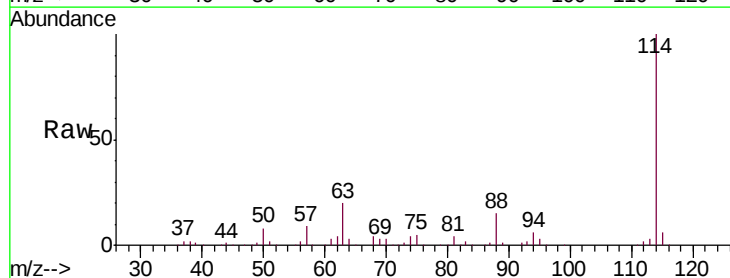
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

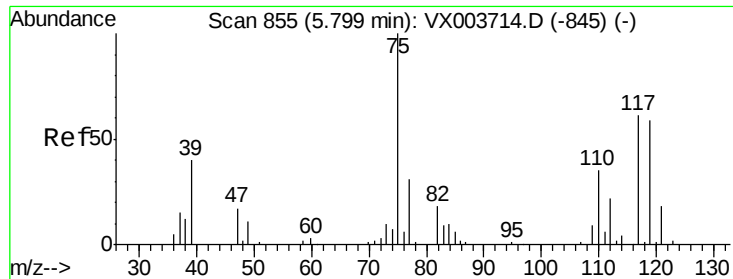
Tot Ion: 65 Resp: 50028  
 Ion Ratio Lower Upper  
 65 100  
 67 53.6 40.9 61.3



#28  
 1,4-Difluorobenzene  
 Concen: 30.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion: 114 Resp: 123740  
 Ion Ratio Lower Upper  
 114 100  
 63 21.1 17.1 25.7  
 88 15.6 12.6 19.0

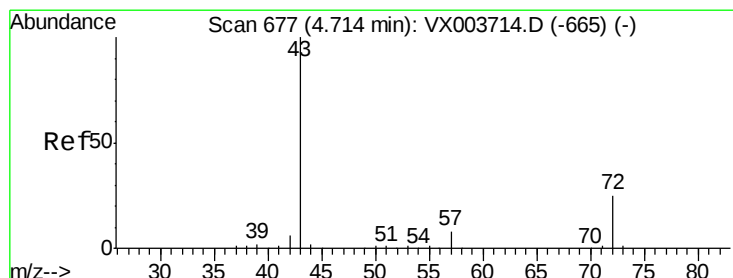
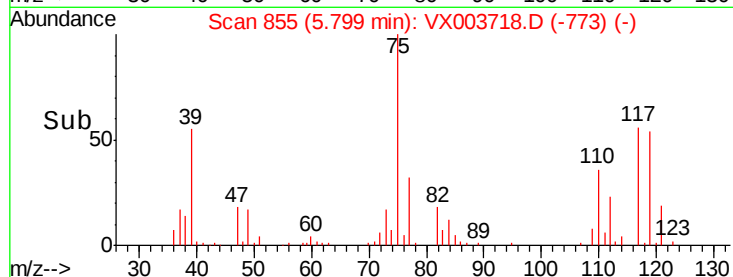
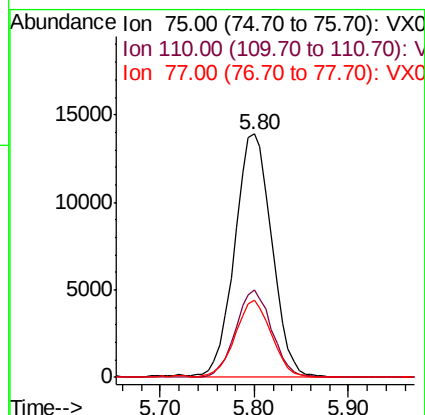
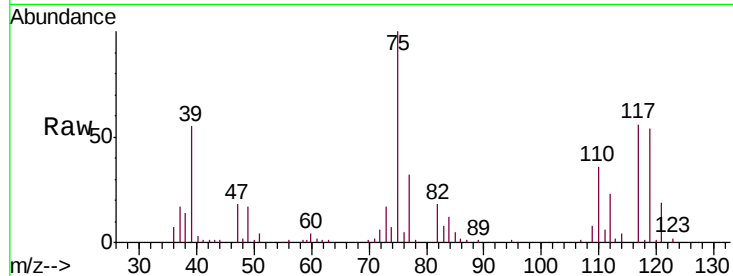




#29  
 1,1-Dichloropropene  
 Concen: 20.87 ug/l  
 RT: 5.80 min Scan# 855  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

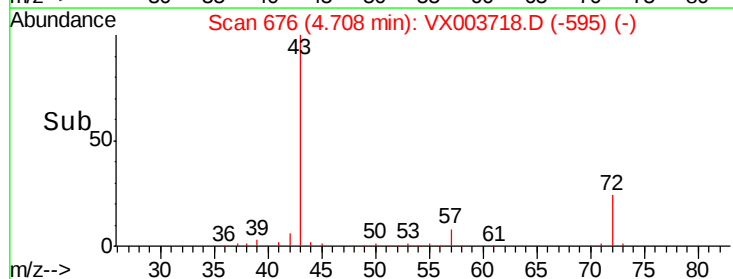
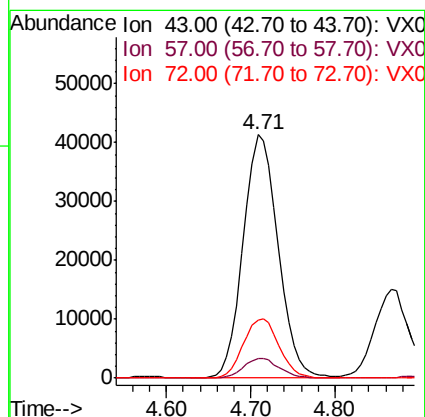
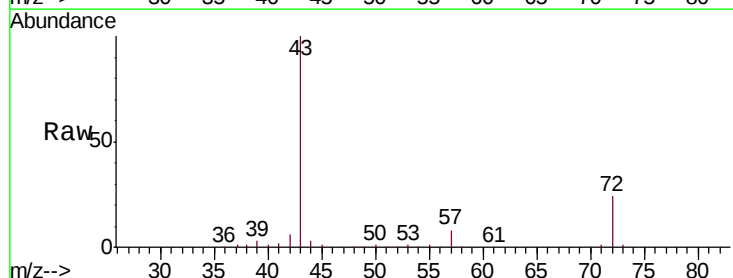
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

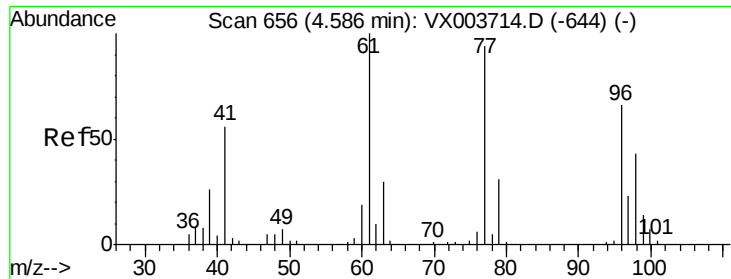
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 35.0  | 0.0   | 71.4  |
| 77      | 31.0  | 0.0   | 60.6  |



#30  
 2-Butanone  
 Concen: 99.82 ug/l  
 RT: 4.71 min Scan# 676  
 Delta R.T. -0.01 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 57      | 8.1   | 6.1   | 9.1   |
| 72      | 24.8  | 18.1  | 27.1  |

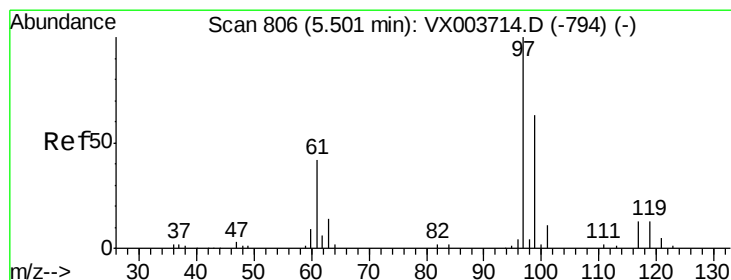
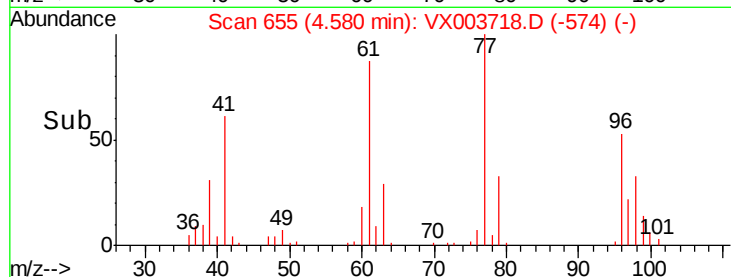
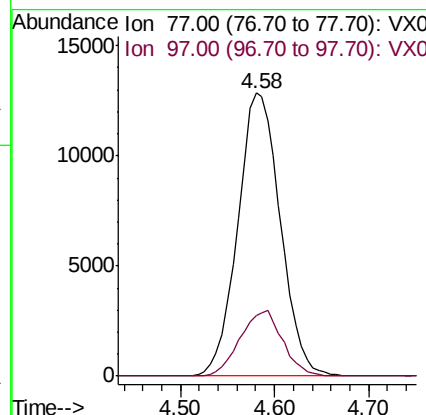
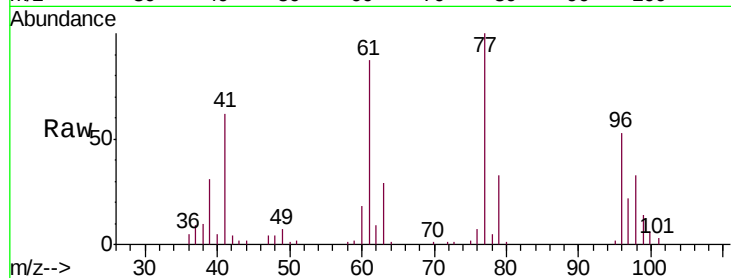




#31  
 2,2-Dichloropropane  
 Concen: 22.92 ug/l  
 RT: 4.58 min Scan# 655  
 Delta R.T. -0.01 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

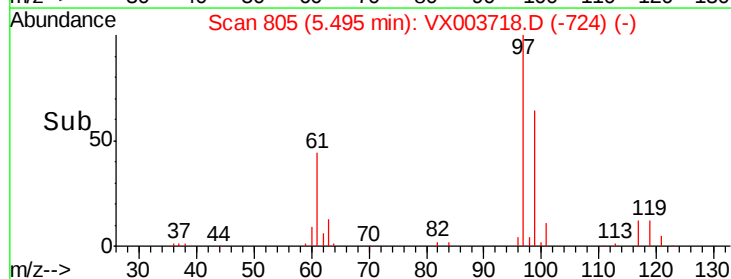
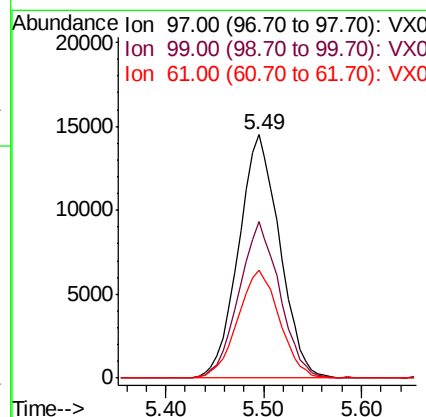
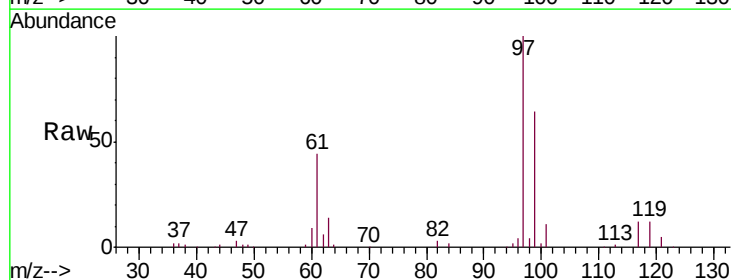
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

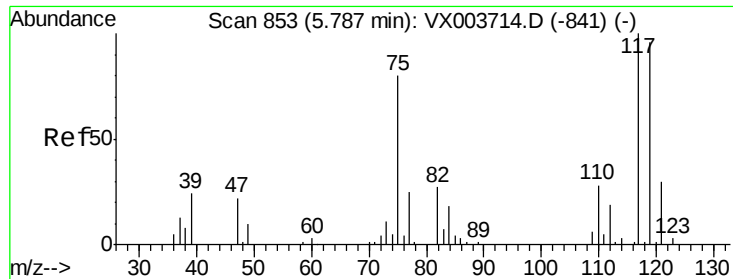
Tot Ion: 77 Resp: 40576  
 Ion Ratio Lower Upper  
 77 100  
 97 23.0 18.7 28.1



#32  
 1,1,1-Trichloroethane  
 Concen: 20.20 ug/l  
 RT: 5.49 min Scan# 805  
 Delta R.T. -0.01 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion: 97 Resp: 42223  
 Ion Ratio Lower Upper  
 97 100  
 99 63.8 51.7 77.5  
 61 45.2 36.4 54.6

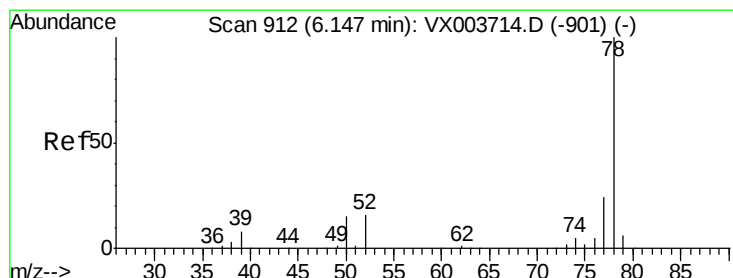
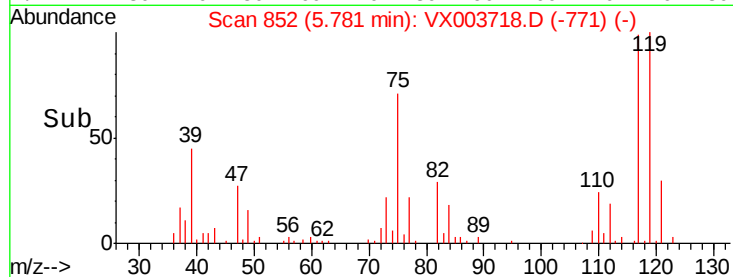
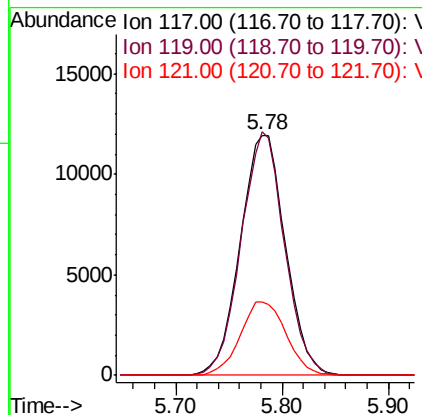
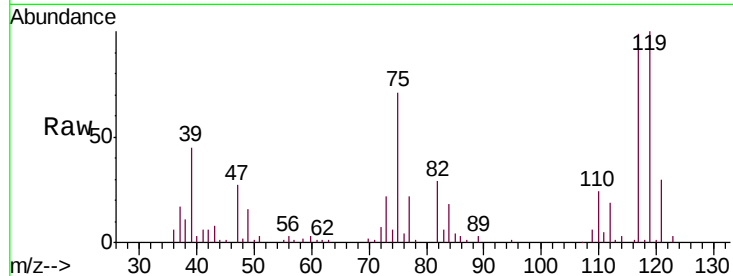




#33  
Carbon Tetrachloride  
Concen: 19.56 ug/l  
RT: 5.78 min Scan# 852  
Delta R.T. -0.01 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

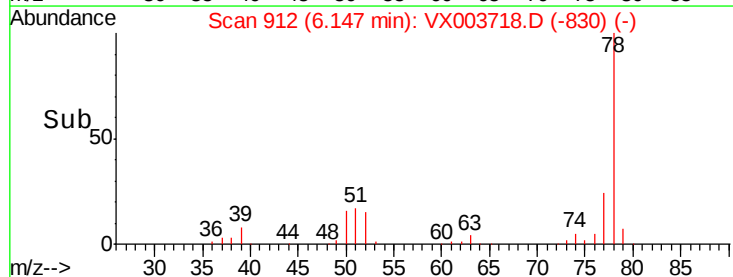
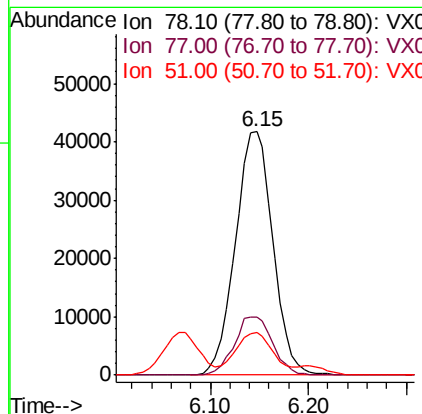
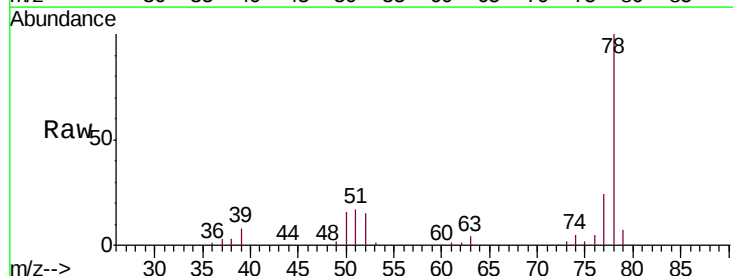
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

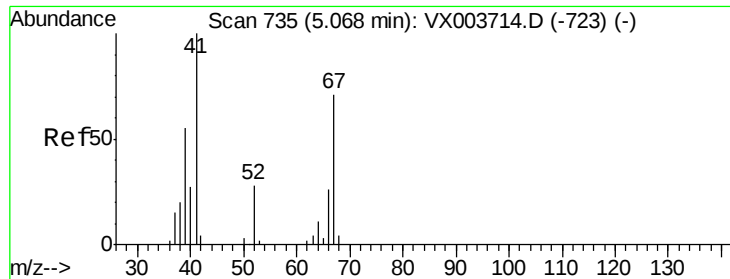
Tot Ion:117 Resp: 35533  
Ion Ratio Lower Upper  
117 100  
119 101.3 73.3 109.9  
121 30.5 23.6 35.4



#34  
Benzene  
Concen: 19.79 ug/l  
RT: 6.15 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 78 Resp: 111102  
Ion Ratio Lower Upper  
78 100  
77 23.8 19.4 29.0  
51 16.6 13.8 20.6

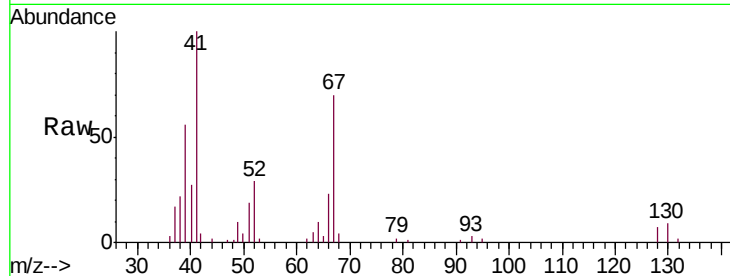




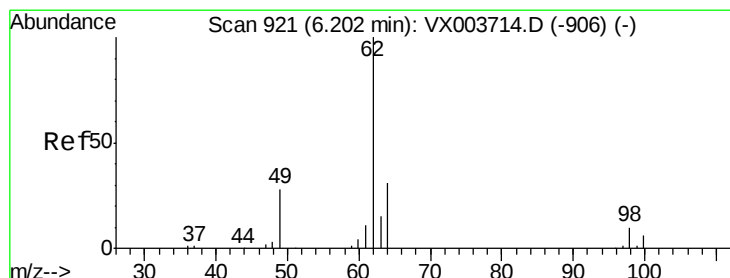
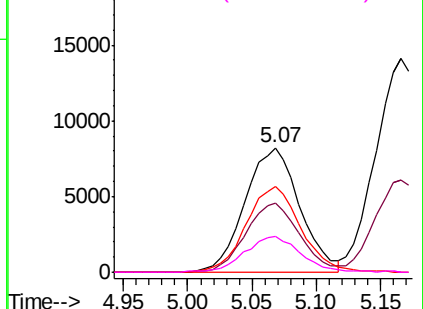
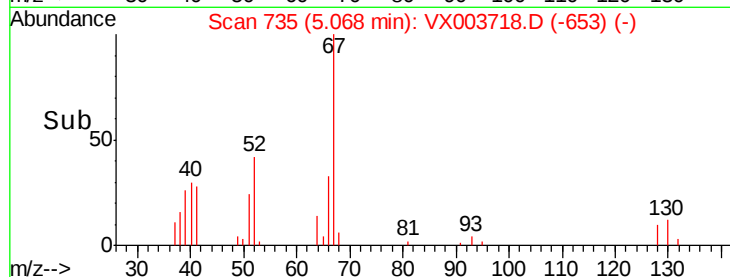
#35  
Methacrylonitrile  
Concen: 19.98 ug/l  
RT: 5.07 min Scan# 735  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 24232 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 55.8  | 28.8  | 86.5  |
| 67       | 69.5  | 30.4  | 91.2  |
| 52       | 27.8  | 13.0  | 39.0  |

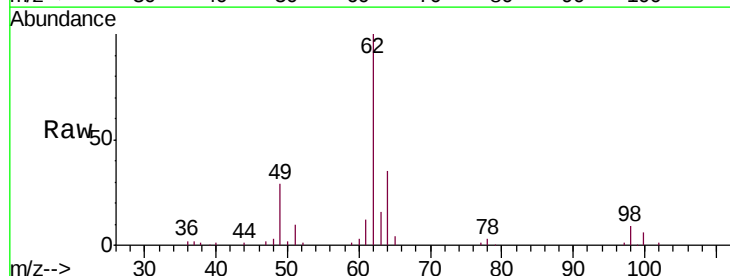


Abundance Ion 41.00 (40.70 to 41.70): VX0  
Ion 39.00 (38.70 to 39.70): VX0  
Ion 67.00 (66.70 to 67.70): VX0  
Ion 52.00 (51.70 to 52.70): VX0

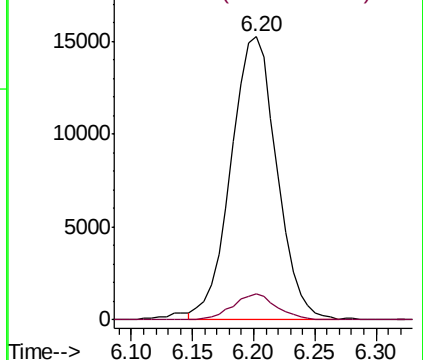
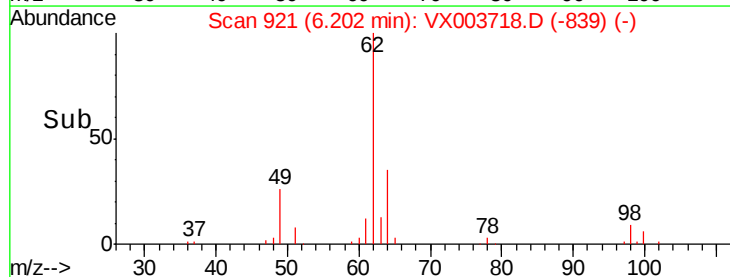


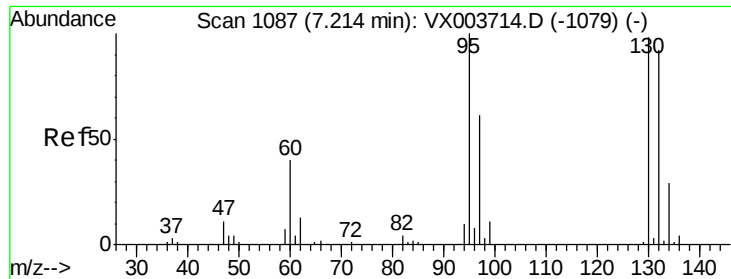
#36  
1,2-Dichloroethane  
Concen: 19.65 ug/l  
RT: 6.20 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 39645 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.6   | 6.5   | 9.7   |



Abundance Ion 62.00 (61.70 to 62.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0

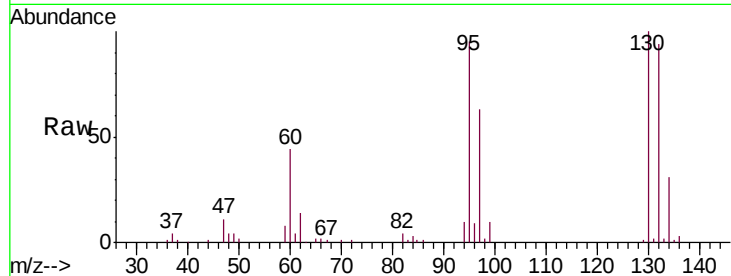




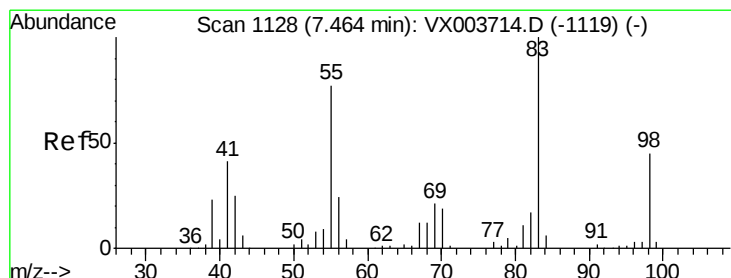
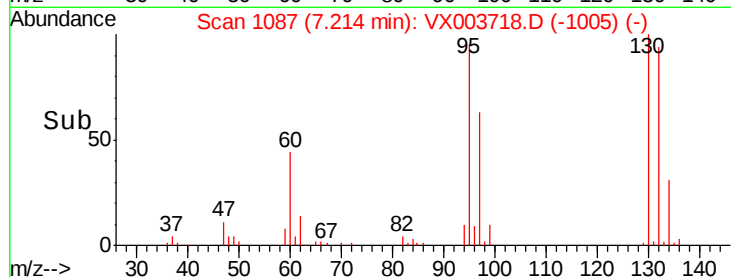
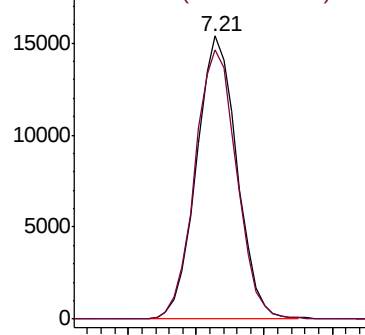
#37  
 Trichloroethene  
 Concen: 21.91 ug/l  
 RT: 7.21 min Scan# 1087  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

Tot Ion:130 Resp: 32064  
 Ion Ratio Lower Upper  
 130 100  
 95 95.0 81.5 122.3

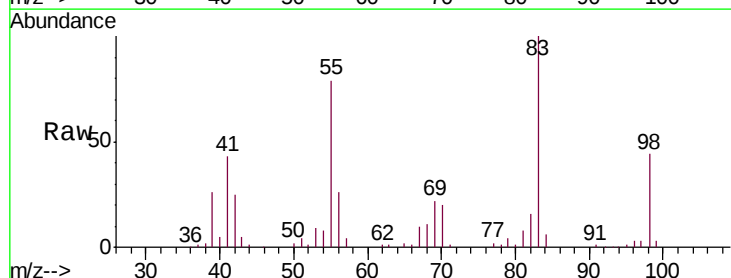


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VX0

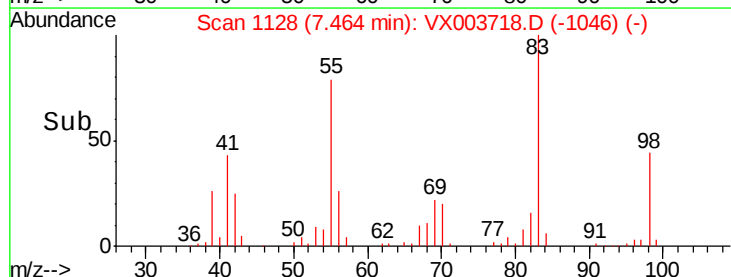
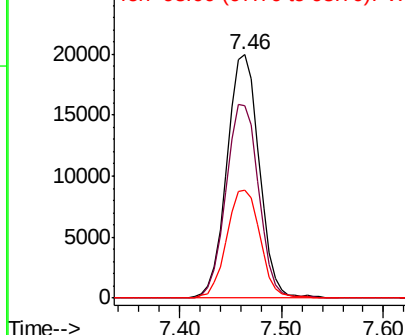


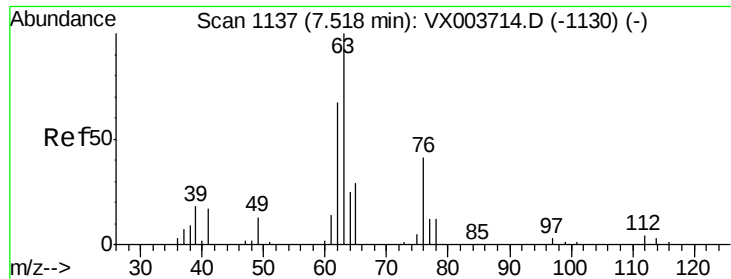
#38  
 Methylcyclohexane  
 Concen: 21.11 ug/l  
 RT: 7.46 min Scan# 1128  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion: 83 Resp: 43825  
 Ion Ratio Lower Upper  
 83 100  
 55 80.5 40.6 121.8  
 98 45.6 23.5 70.5



Abundance Ion 83.00 (82.70 to 83.70): VX0  
 Ion 55.00 (54.70 to 55.70): VX0  
 Ion 98.00 (97.70 to 98.70): VX0

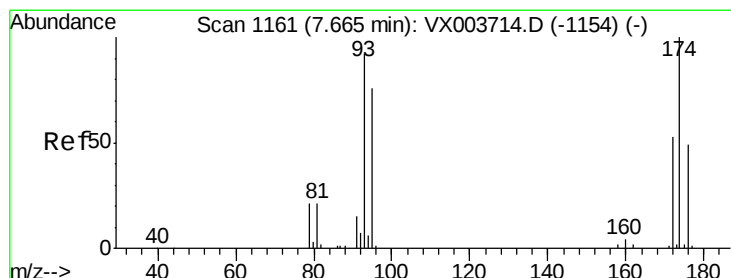
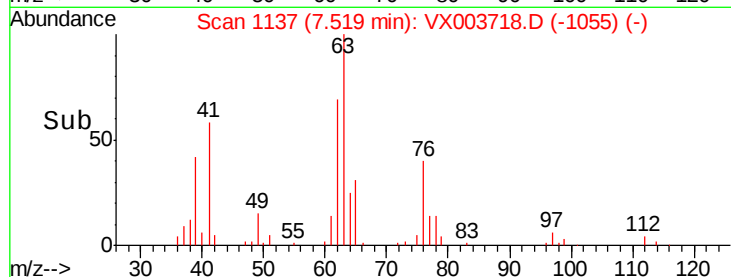
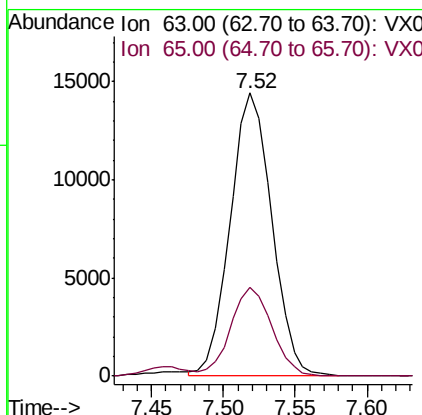
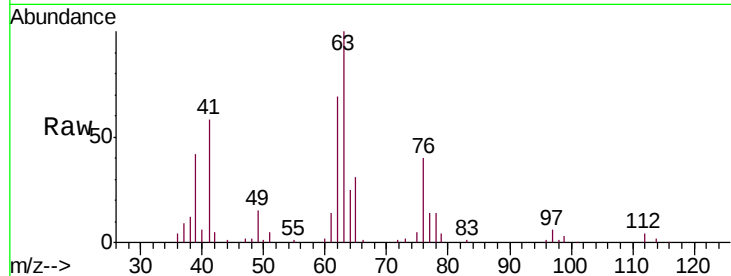




#39  
 1,2-Dichloropropane  
 Concen: 19.60 ug/l  
 RT: 7.52 min Scan# 1137  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

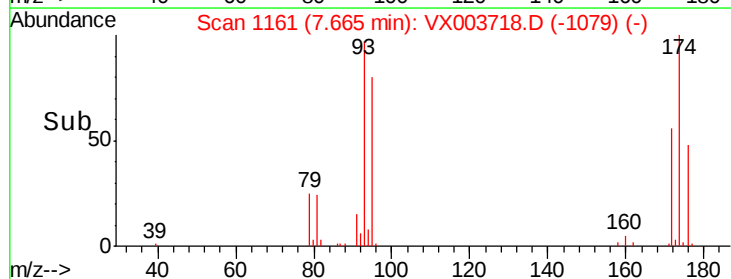
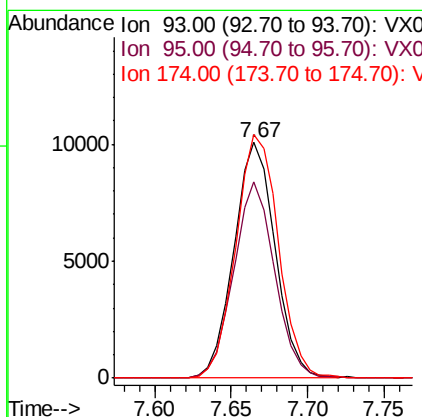
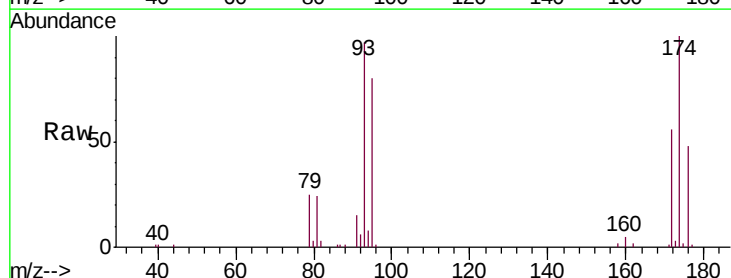
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

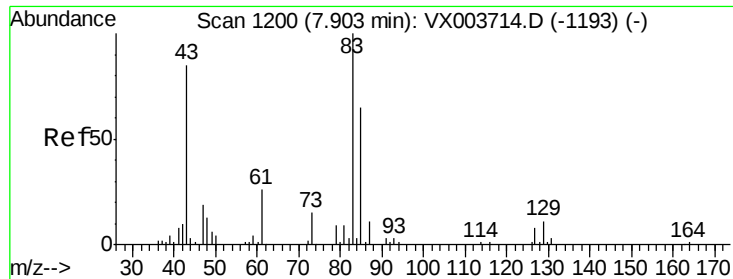
Tot Ion: 63 Resp: 29083  
 Ion Ratio Lower Upper  
 63 100  
 65 31.5 23.3 34.9



#40  
 Dibromomethane  
 Concen: 19.71 ug/l  
 RT: 7.67 min Scan# 1161  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion: 93 Resp: 18923  
 Ion Ratio Lower Upper  
 93 100  
 95 82.4 0.0 162.6  
 174 106.8 0.0 229.4





#41

Bromodichloromethane

Concen: 19.03 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

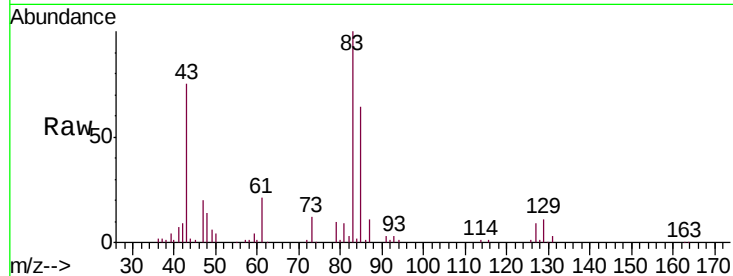
Tot Ion: 83 Resp: 34900

Ion Ratio Lower Upper

83 100

85 64.2 49.8 74.8

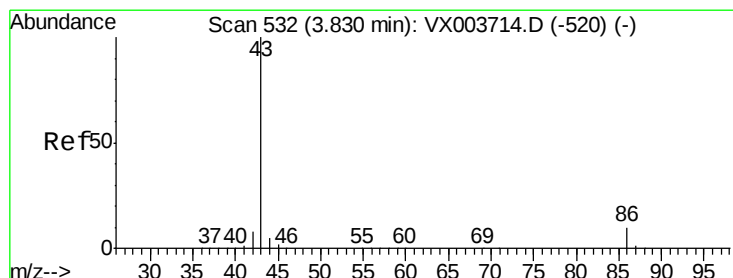
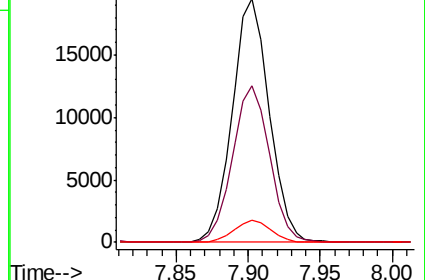
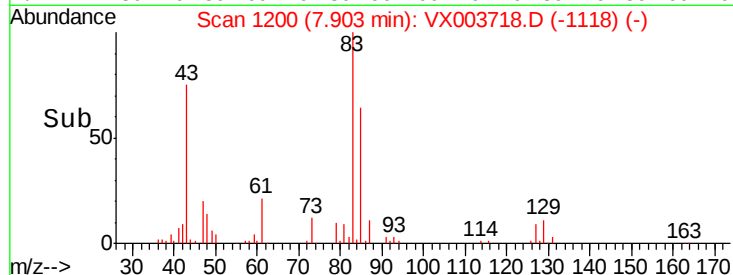
127 9.4 7.3 10.9



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 106.91 ug/l

RT: 3.82 min Scan# 531

Delta R.T. -0.01 min

Lab File: VX003718.D

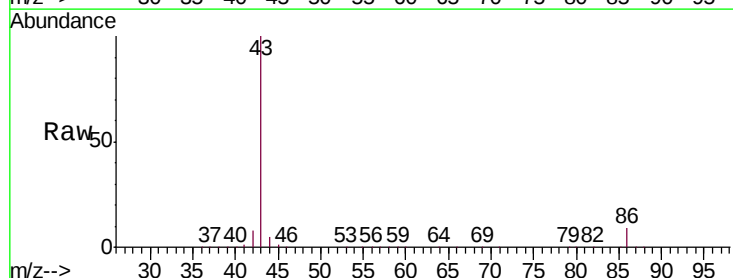
Acq: 27 Jul 2018 15:58

Tgt Ion: 43 Resp: 479368

Ion Ratio Lower Upper

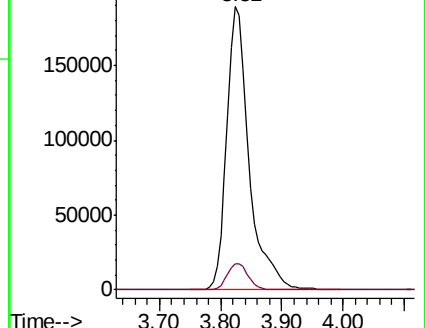
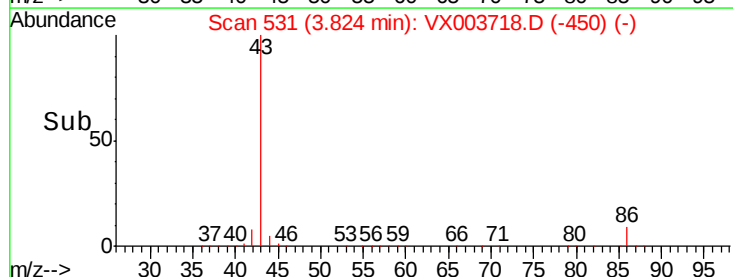
43 100

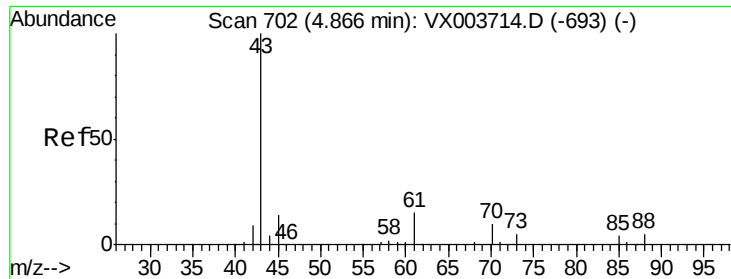
86 8.6 6.7 10.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

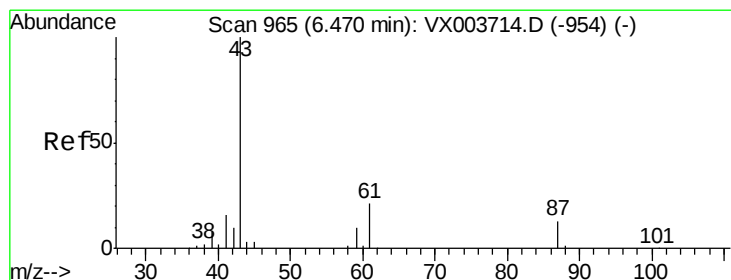
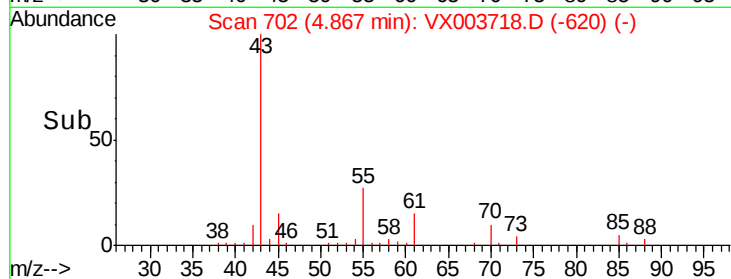
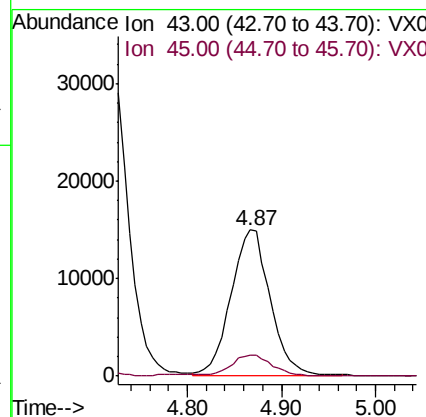
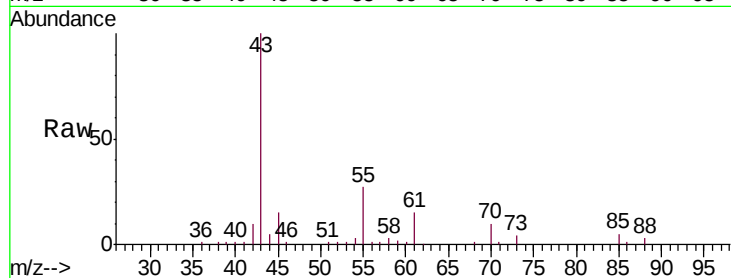




#43  
Ethyl Acetate  
Concen: 20.14 ug/l  
RT: 4.87 min Scan# 702  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

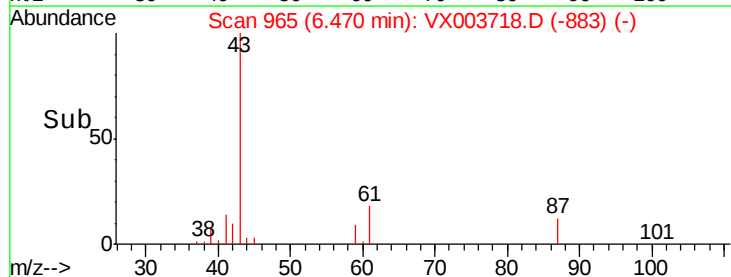
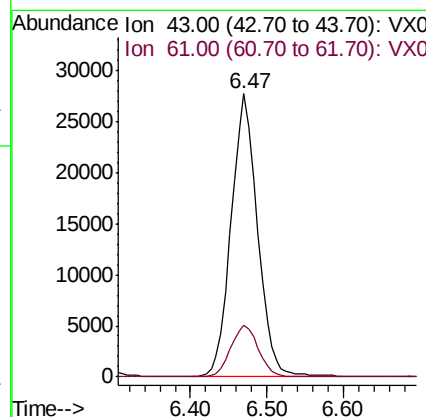
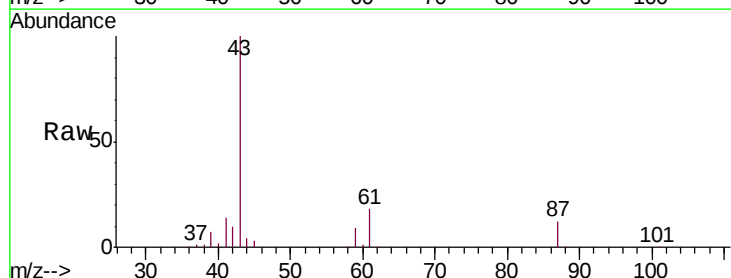
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

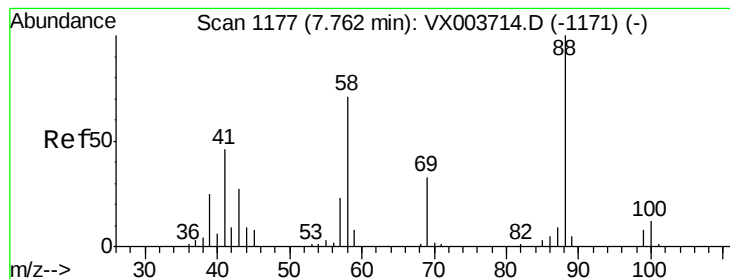
Tot Ion: 43 Resp: 43899  
Ion Ratio Lower Upper  
43 100  
45 14.4 11.0 16.4



#44  
Isopropyl Acetate  
Concen: 19.88 ug/l  
RT: 6.47 min Scan# 965  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 43 Resp: 66471  
Ion Ratio Lower Upper  
43 100  
61 19.2 14.5 21.7





#45

1,4-Dioxane

Concen: 374.05 ug/l

RT: 7.76 min Scan# 1176

Delta R.T. -0.01 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

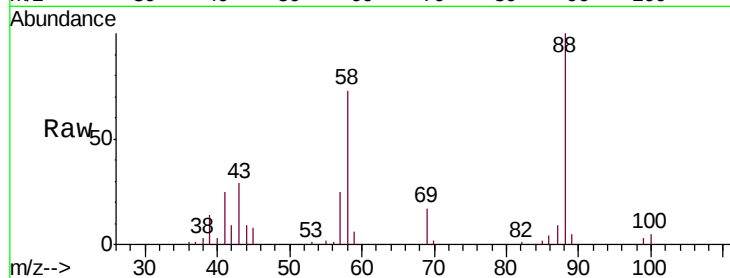
Tot Ion: 88 Resp: 13888

Ion Ratio Lower Upper

88 100

43 35.0 43.2 64.8#

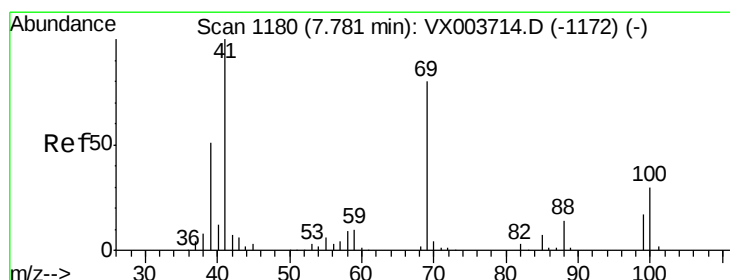
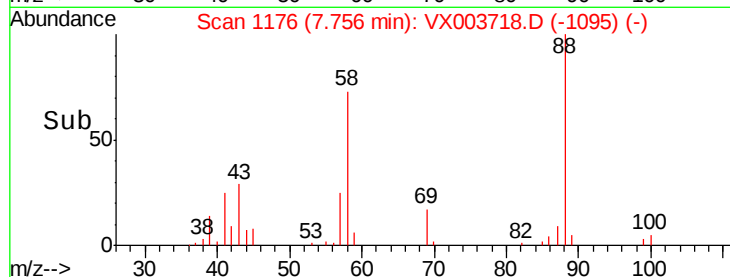
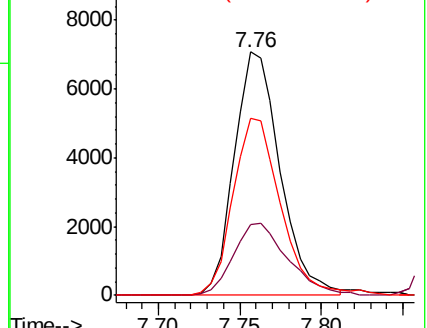
58 74.9 60.2 90.2



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



#46

Methyl methacrylate

Concen: 19.69 ug/l

RT: 7.78 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

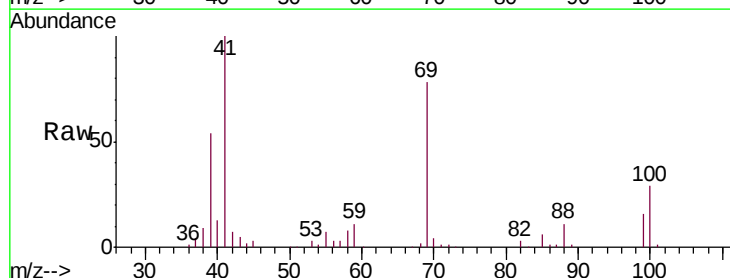
Tgt Ion: 41 Resp: 33956

Ion Ratio Lower Upper

41 100

69 77.9 37.0 110.9

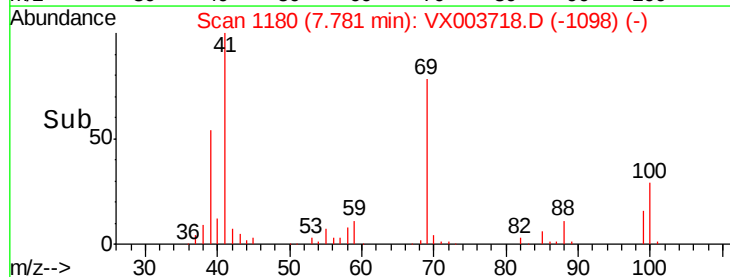
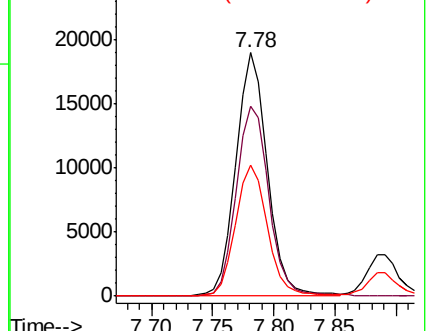
39 53.7 29.6 88.9

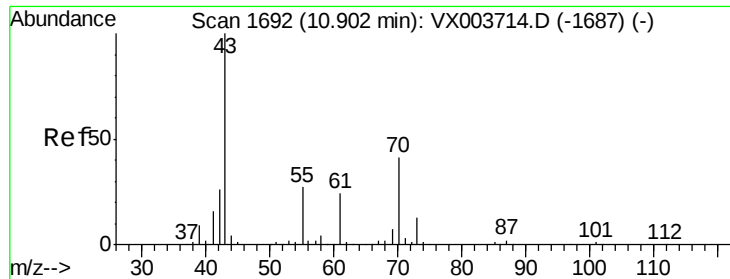


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

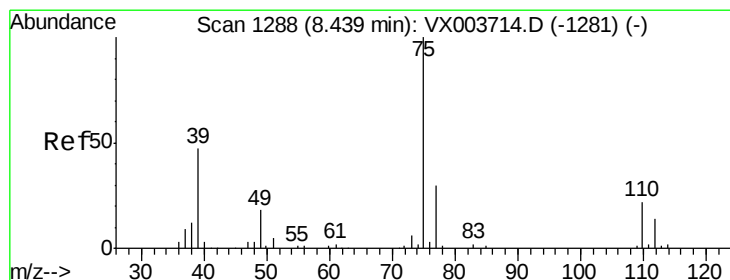
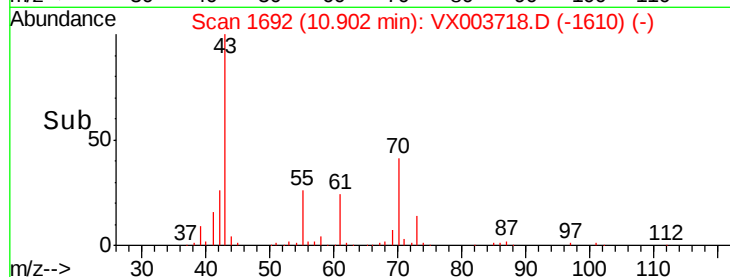
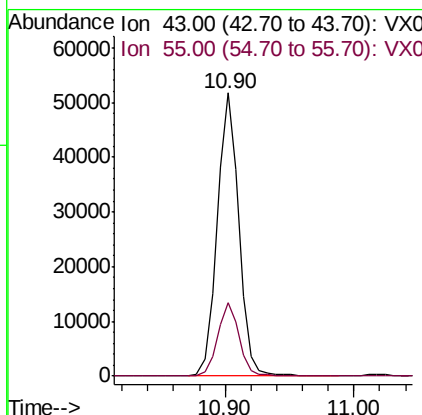
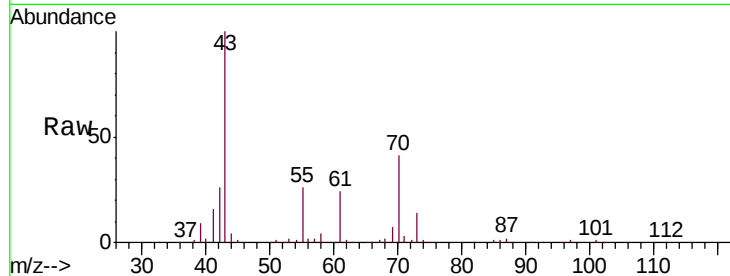




#47  
n-amvl Acetate  
Concen: 19.47 ug/l  
RT: 10.90 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

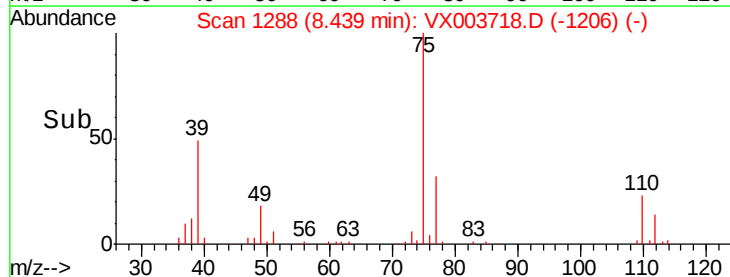
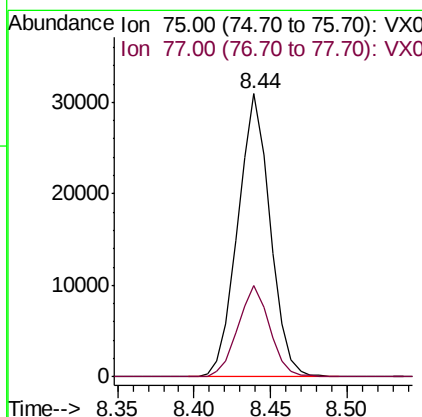
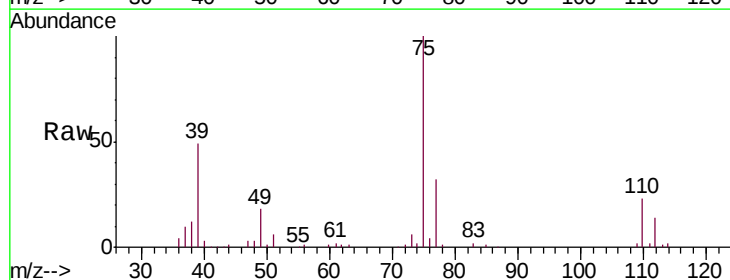
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

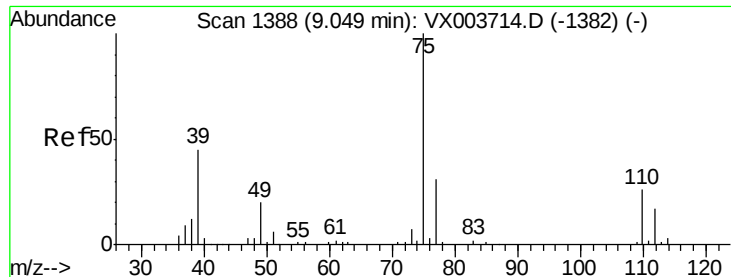
Tot Ion: 43 Resp: 61452  
Ion Ratio Lower Upper  
43 100  
55 25.8 0.1 0.1#



#48  
t-1,3-Dichloropropene  
Concen: 20.44 ug/l  
RT: 8.44 min Scan# 1288  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 75 Resp: 45502  
Ion Ratio Lower Upper  
75 100  
77 32.1 25.6 38.4



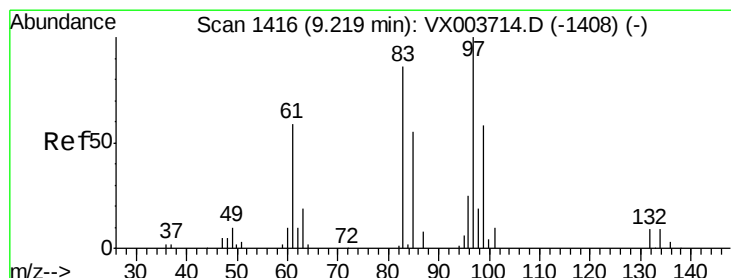
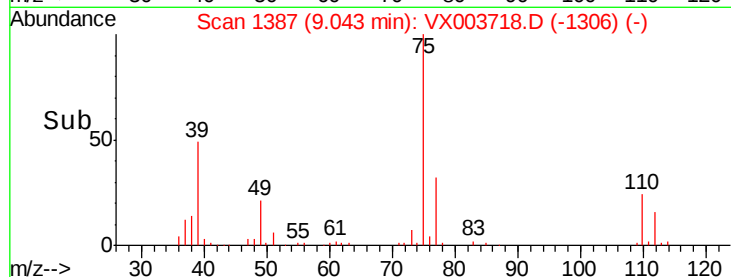
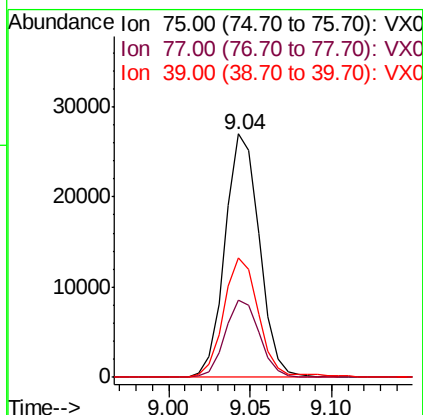
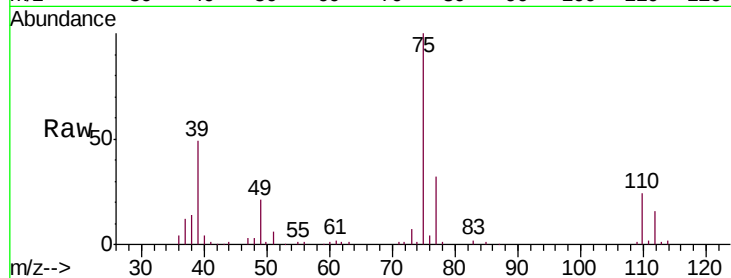


#49

cis-1,3-Dichloropropene  
 Concen: 18.97 ug/l  
 RT: 9.04 min Scan# 1387  
 Delta R.T. -0.01 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

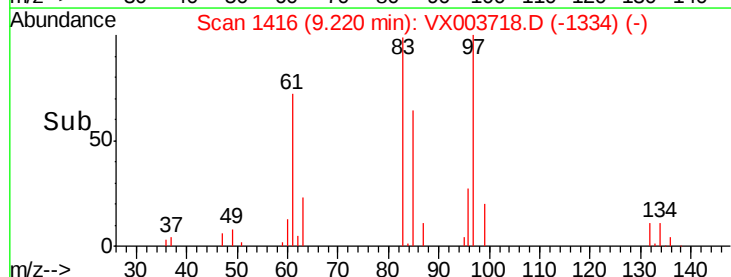
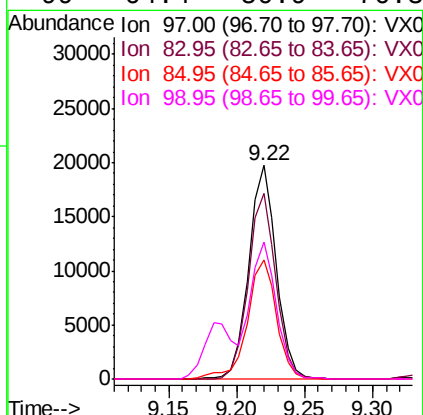
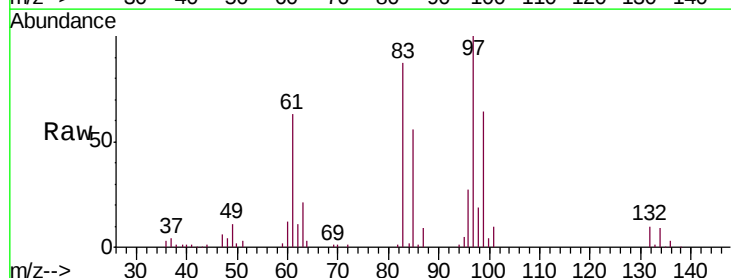
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.8  | 25.4  | 38.2  |
| 39      | 48.7  | 42.3  | 63.5  |

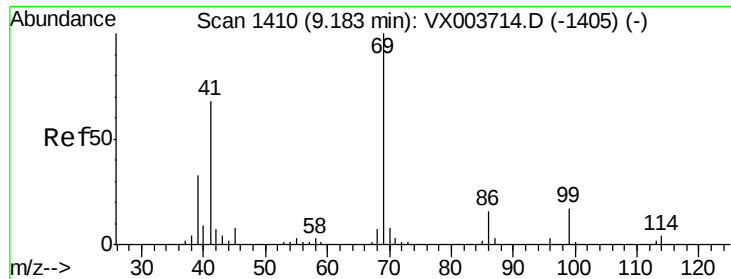


#50

1,1,2-Trichloroethane  
 Concen: 18.43 ug/l  
 RT: 9.22 min Scan# 1416  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 86.7  | 70.8  | 106.2 |
| 85      | 55.6  | 43.5  | 65.3  |
| 99      | 64.4  | 50.9  | 76.3  |





#51

Ethyl methacrylate

Concen: 18.32 ug/l

RT: 9.18 min Scan# 1410

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

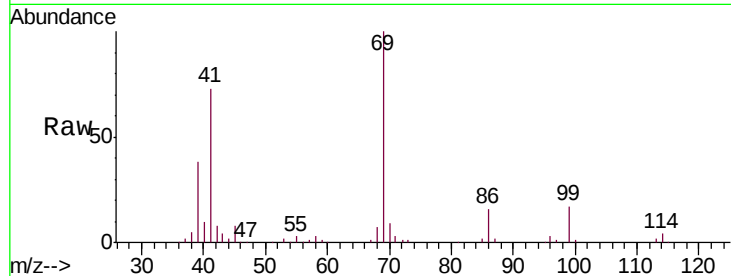
Tot Ion: 69 Resp: 42038

Ion Ratio Lower Upper

69 100

41 73.3 39.1 117.3

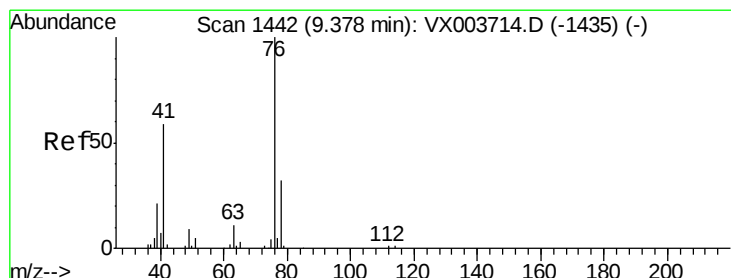
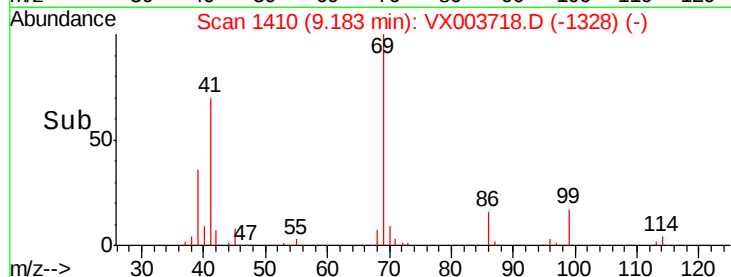
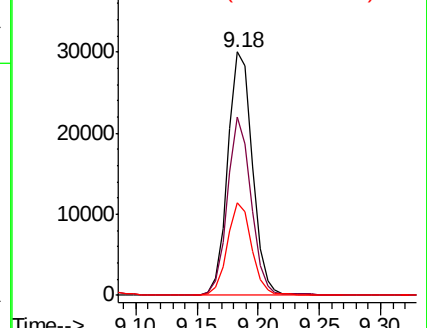
39 37.8 21.7 65.1



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#52

1,3-Dichloropropane

Concen: 19.26 ug/l

RT: 9.37 min Scan# 1441

Delta R.T. -0.01 min

Lab File: VX003718.D

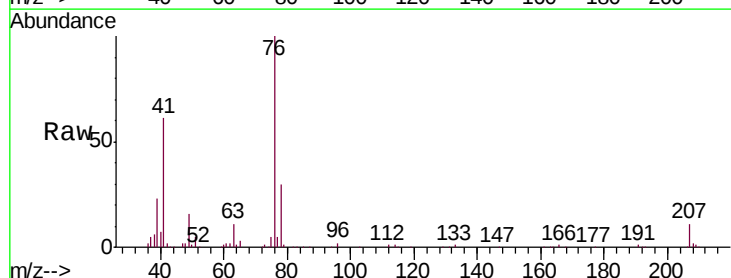
Acq: 27 Jul 2018 15:58

Tgt Ion: 76 Resp: 48857

Ion Ratio Lower Upper

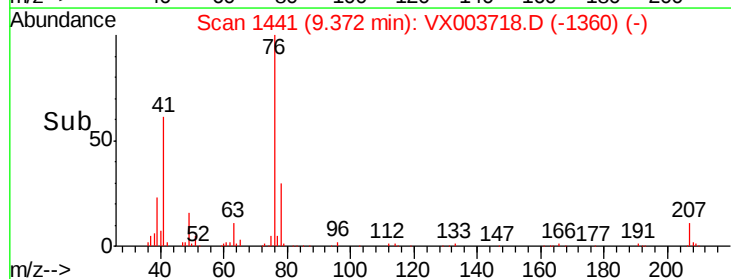
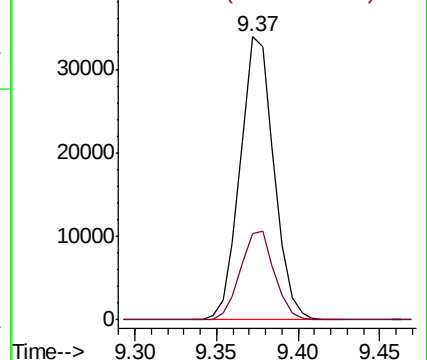
76 100

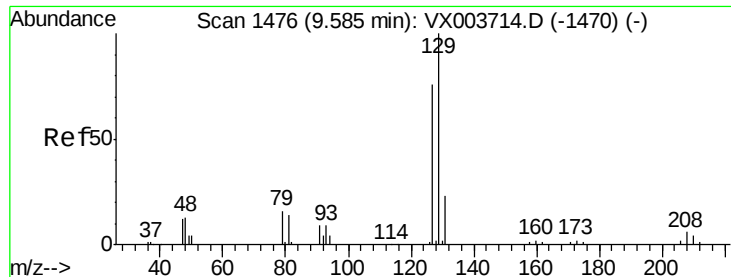
78 31.7 0.0 63.4



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 18.23 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

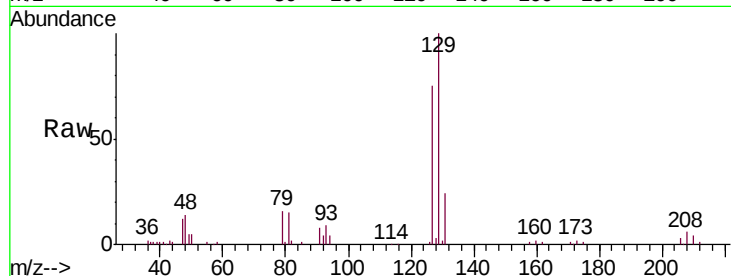
ICVVX072718

Tot Ion:129 Resp: 27289

Ion Ratio Lower Upper

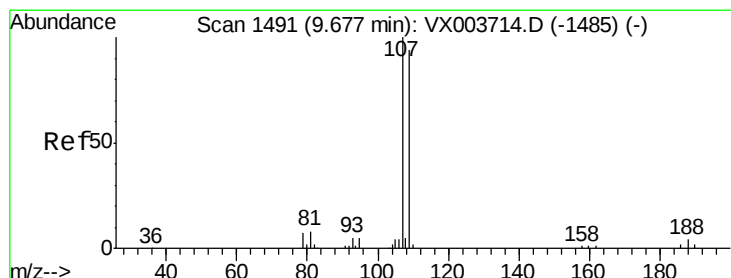
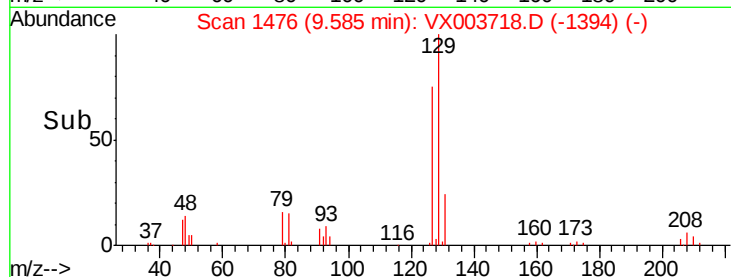
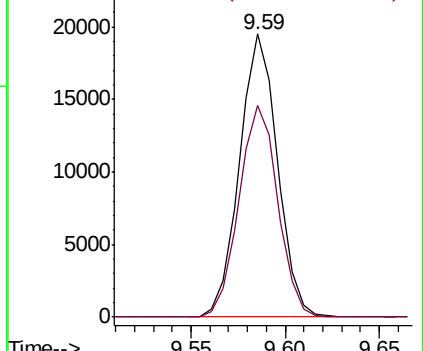
129 100

127 76.3 38.5 115.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 18.24 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX003718.D

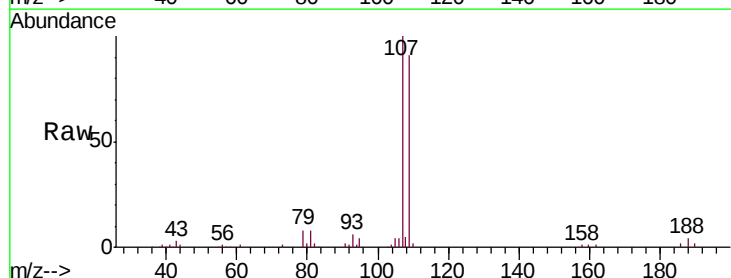
Acq: 27 Jul 2018 15:58

Tgt Ion:107 Resp: 29079

Ion Ratio Lower Upper

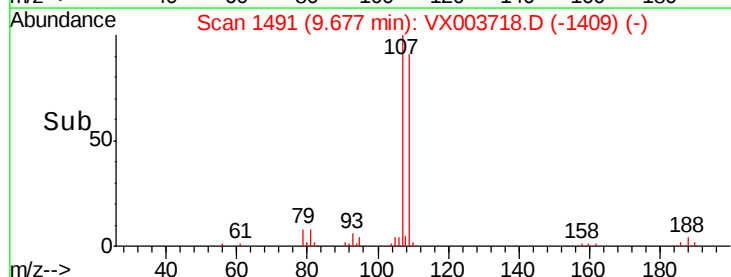
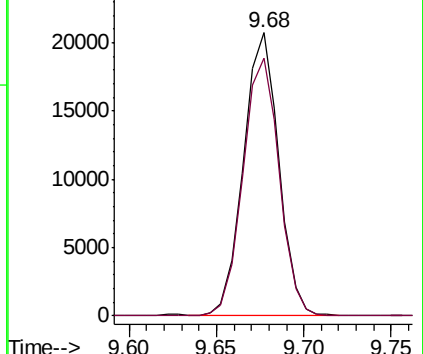
107 100

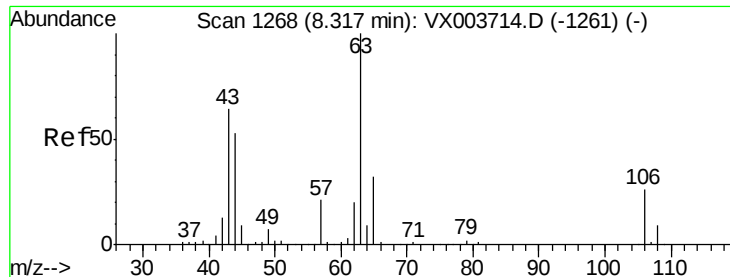
109 93.5 75.5 113.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

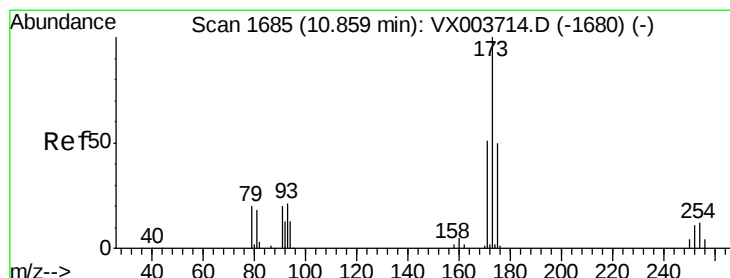
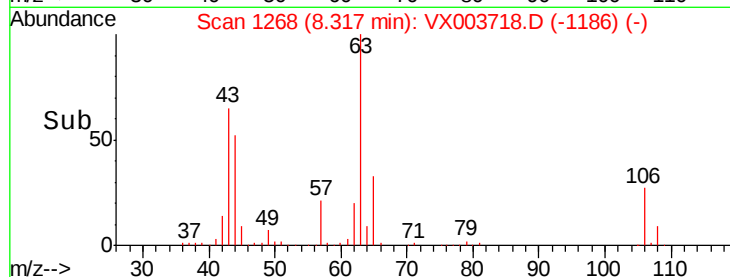
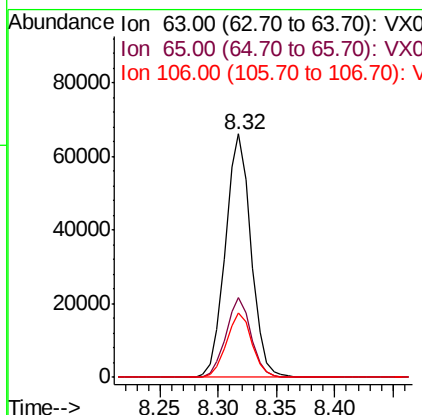
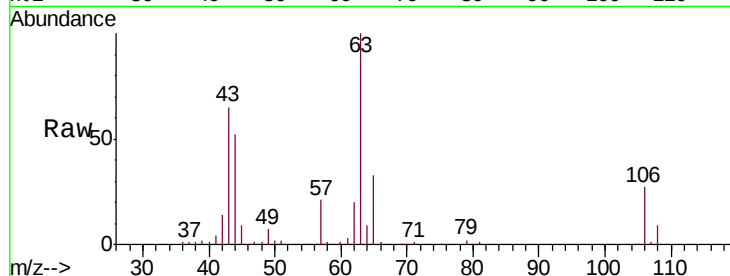




#55  
2-Chloroethyl vinyl ether  
Concen: 85.29 ug/l  
RT: 8.32 min Scan# 1268  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

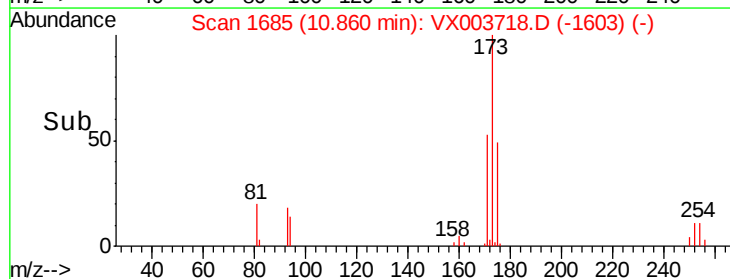
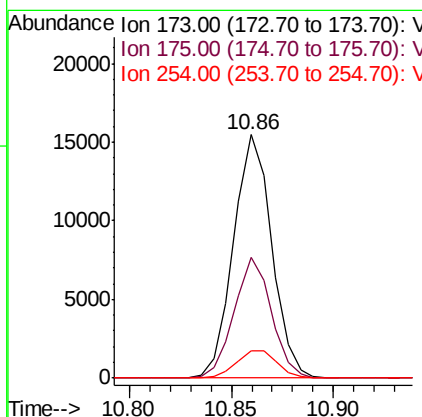
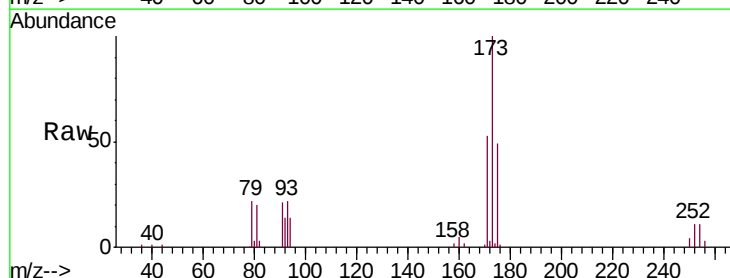
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

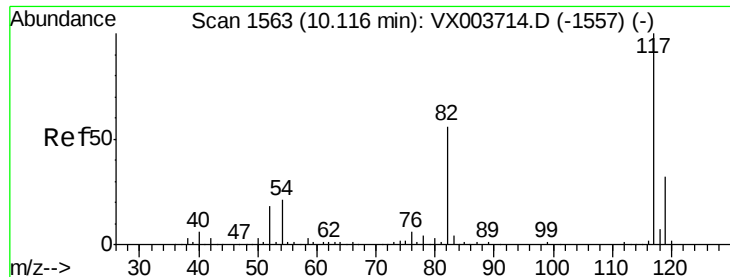
Tot Ion: 63 Resp: 100949  
Ion Ratio Lower Upper  
63 100  
65 32.1 25.6 38.4  
106 26.4 21.6 32.4



#56  
Bromoform  
Concen: 17.32 ug/l  
RT: 10.86 min Scan# 1685  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 173 Resp: 20119  
Ion Ratio Lower Upper  
173 100  
175 48.5 39.0 58.4  
254 11.9 9.6 14.4





#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

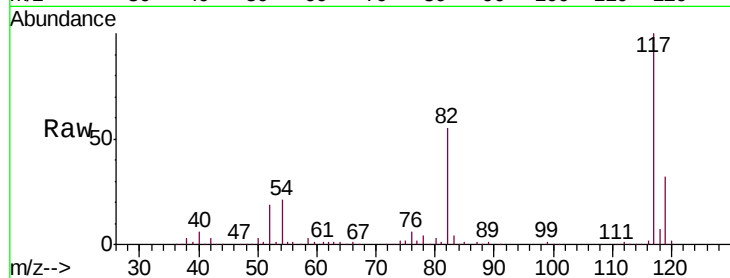
Tot Ion:117 Resp: 124802

Ion Ratio Lower Upper

117 100

82 55.4 44.3 66.5

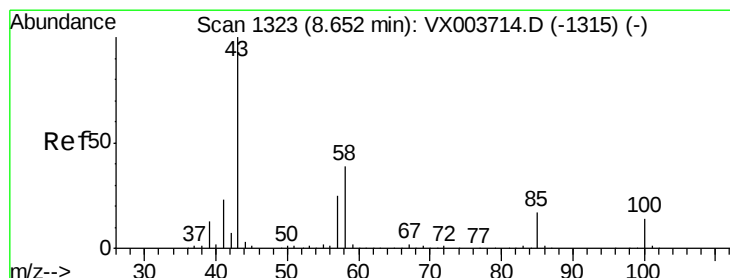
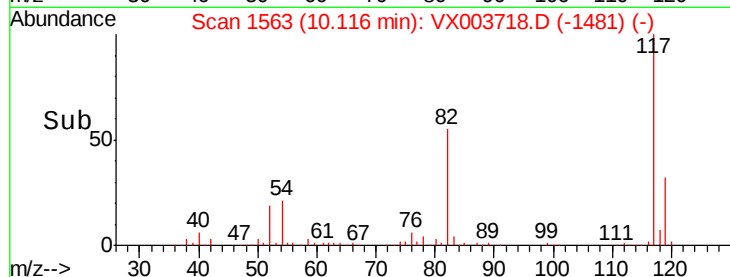
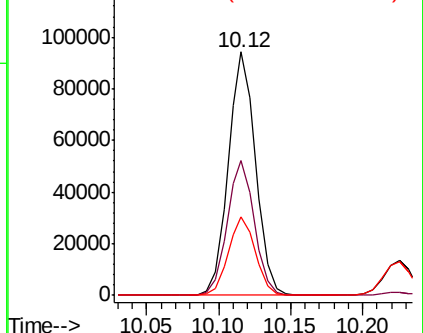
119 32.2 25.7 38.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 98.62 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

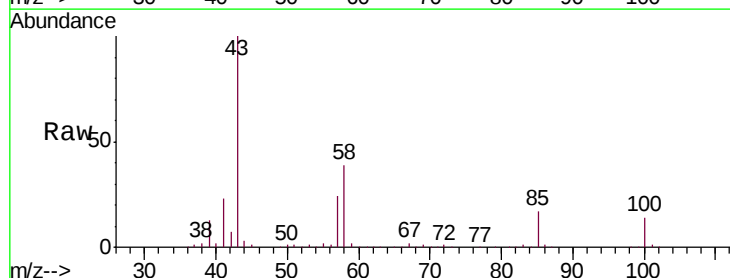
Tgt Ion: 43 Resp: 232390

Ion Ratio Lower Upper

43 100

58 38.4 28.2 42.4

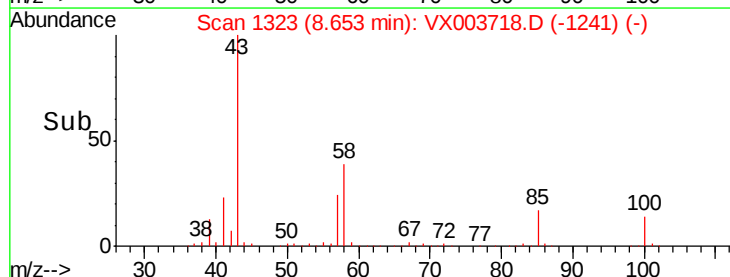
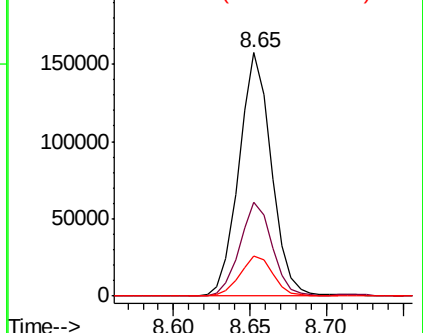
85 17.0 12.4 18.6

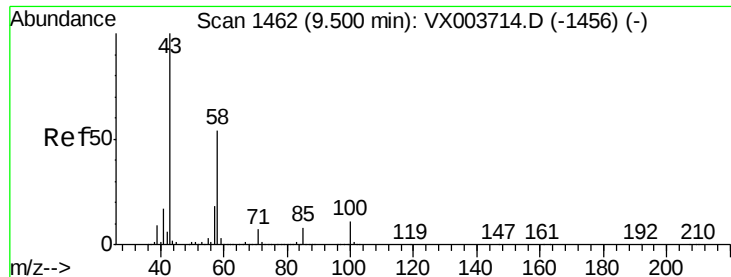


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

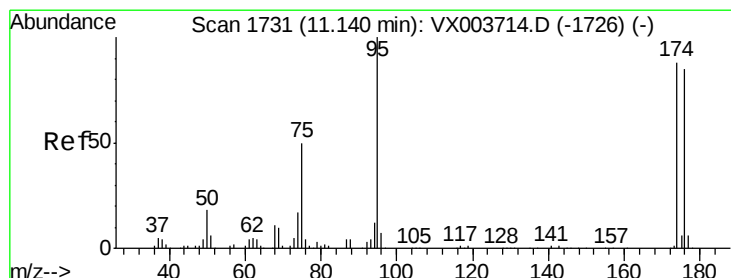
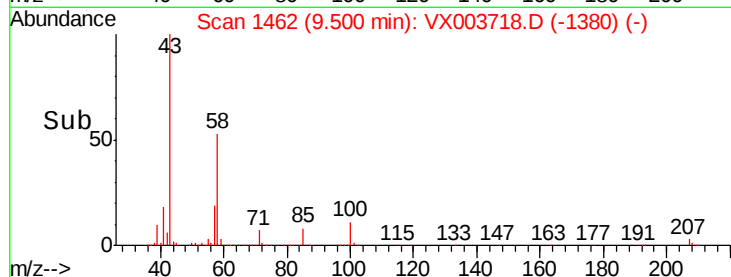
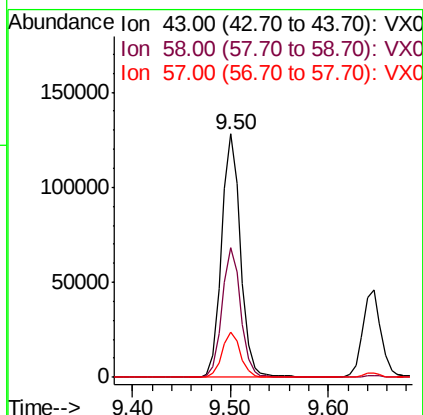
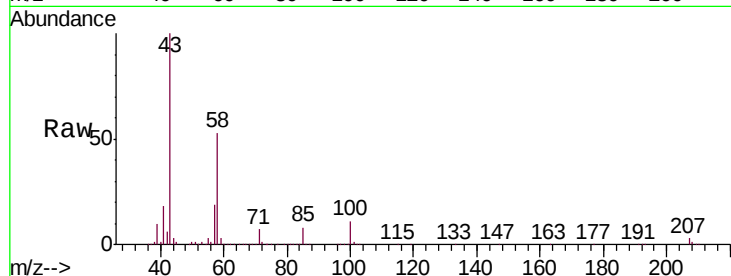




#59  
2-Hexanone  
Concen: 91.83 ug/l  
RT: 9.50 min Scan# 1462  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

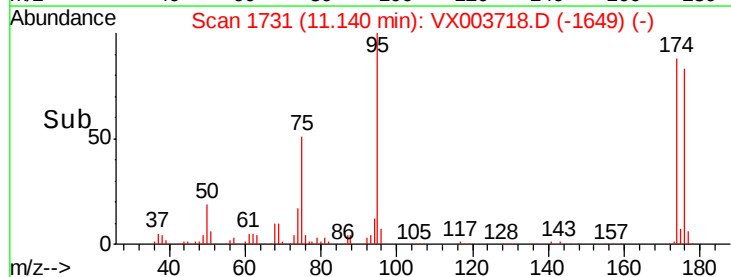
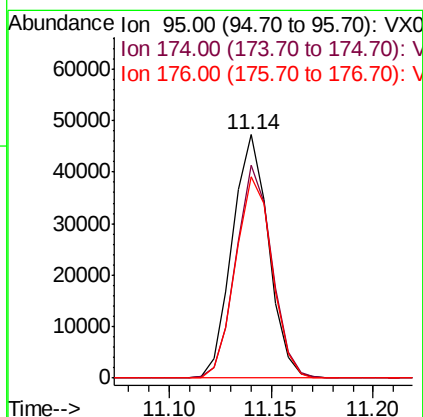
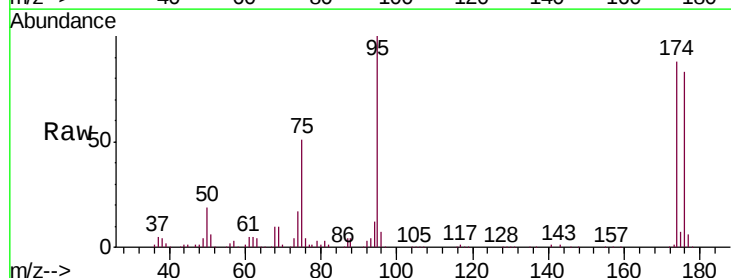
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

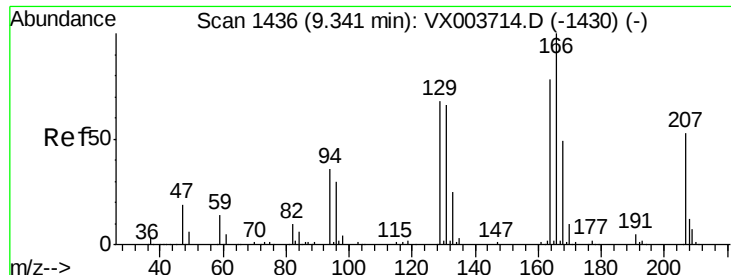
Tot Ion: 43 Resp: 172301  
Ion Ratio Lower Upper  
43 100  
58 52.2 39.6 59.4  
57 18.2 14.1 21.1



#60  
4-Bromofluorobenzene  
Concen: 28.89 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 95 Resp: 58049  
Ion Ratio Lower Upper  
95 100  
174 86.9 71.8 107.6  
176 84.2 70.1 105.1





#61

Tetrachloroethene

Concen: 18.01 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

Tot Ion:164 Resp: 26164

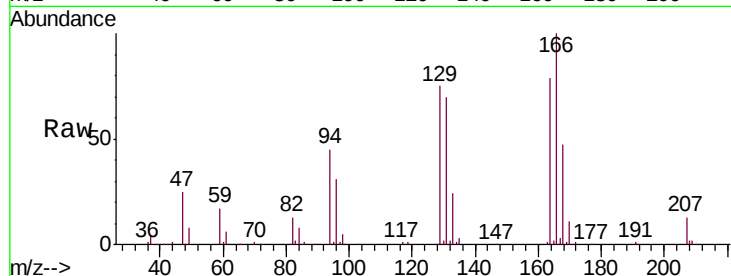
Ion Ratio Lower Upper

164 100

166 126.5 102.4 153.6

129 94.4 70.1 105.1

131 88.4 69.1 103.7

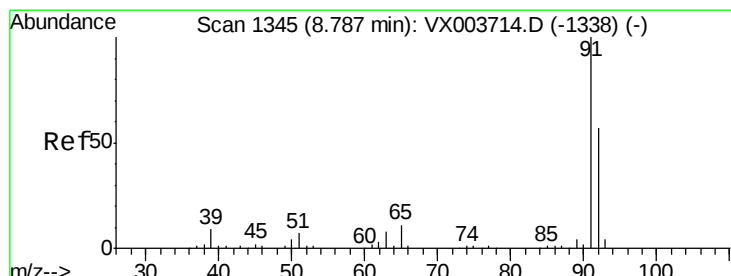
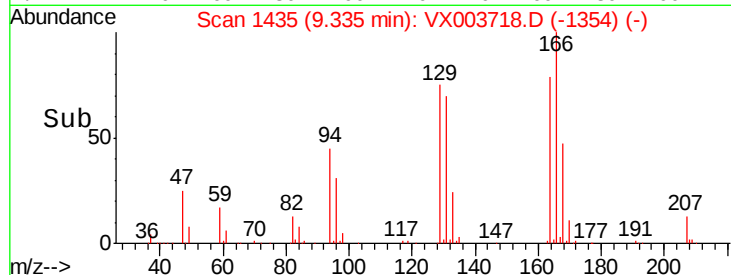
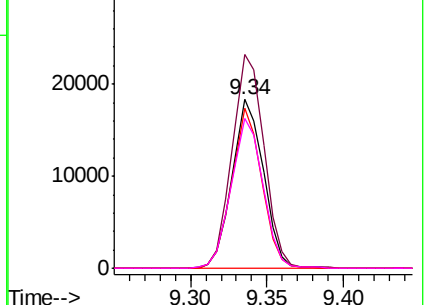


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 18.81 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX003718.D

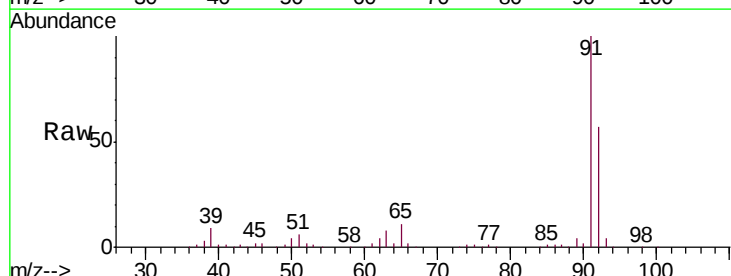
Acq: 27 Jul 2018 15:58

Tgt Ion: 91 Resp: 121829

Ion Ratio Lower Upper

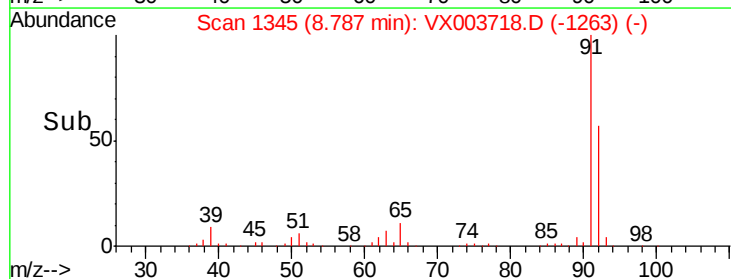
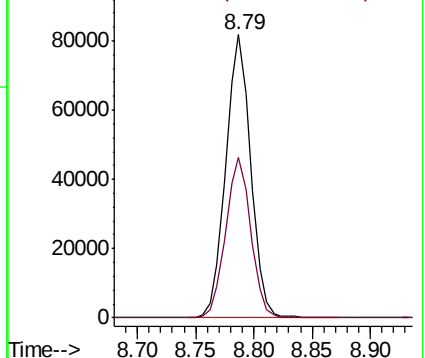
91 100

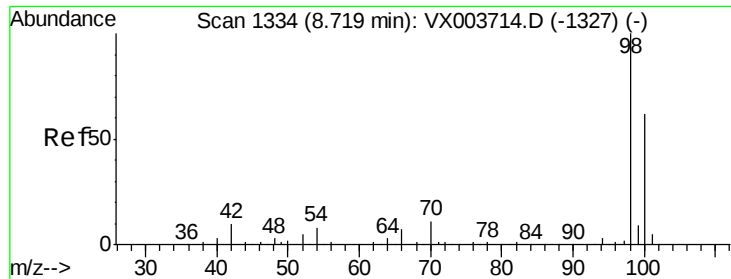
92 57.1 46.5 69.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

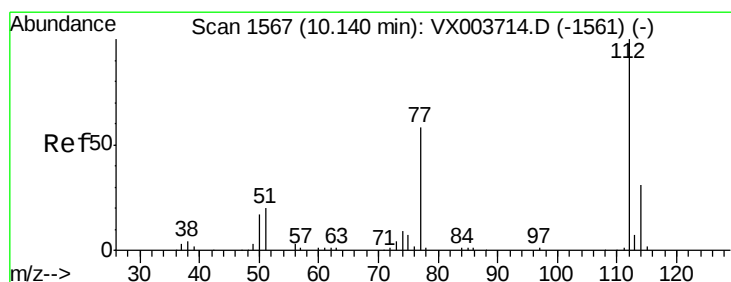
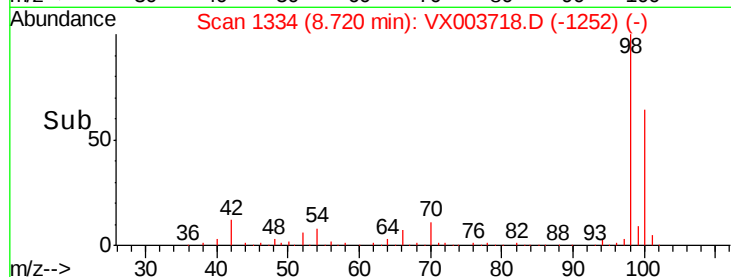
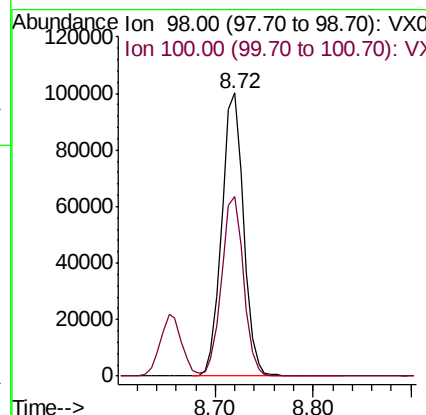
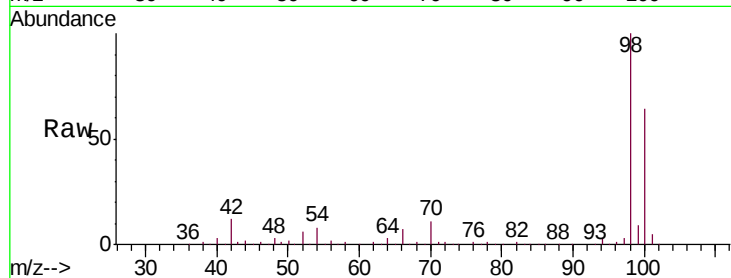




#63  
Toluene-d8  
Concen: 27.68 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

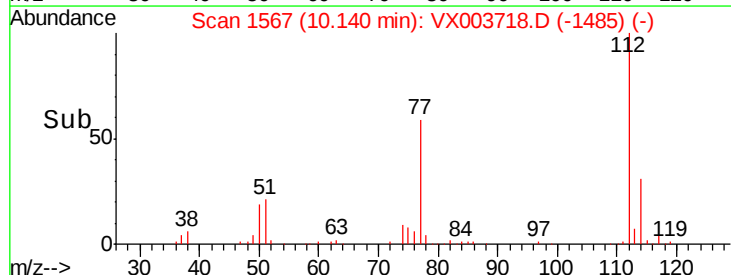
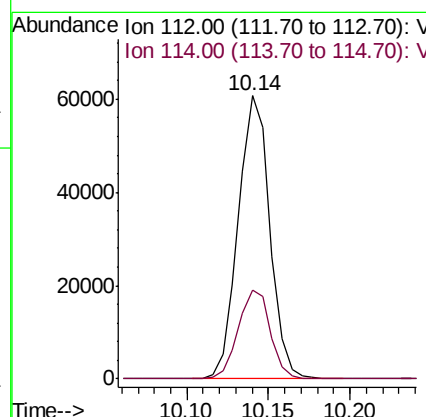
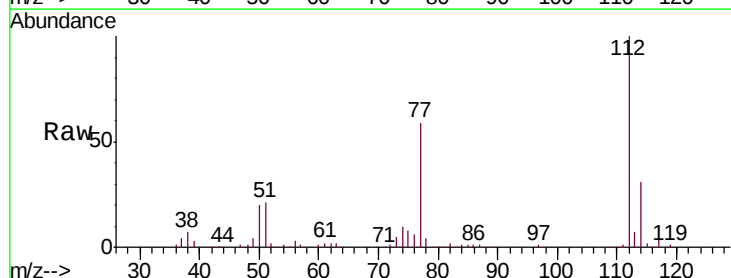
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

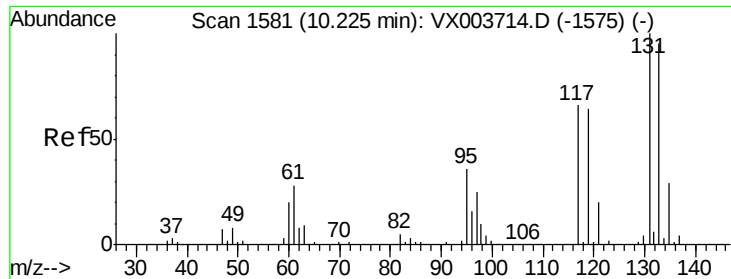
Tot Ion: 98 Resp: 155617  
Ion Ratio Lower Upper  
98 100  
100 64.0 50.8 76.2



#64  
Chlorobenzene  
Concen: 19.57 ug/l  
RT: 10.14 min Scan# 1567  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 112 Resp: 81940  
Ion Ratio Lower Upper  
112 100  
114 31.3 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 18.28 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

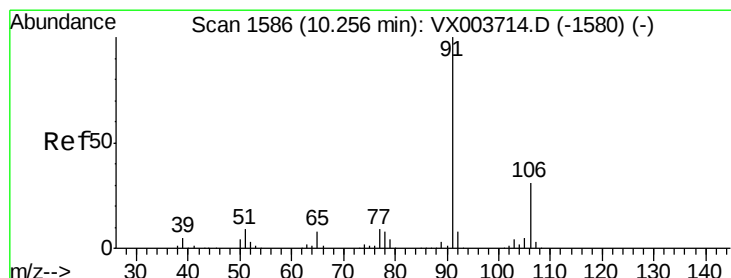
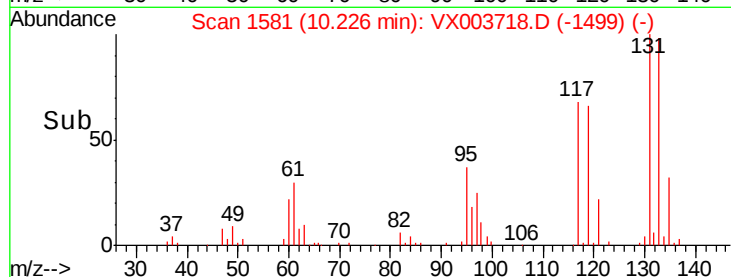
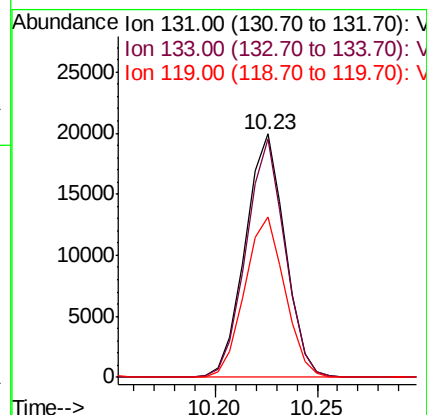
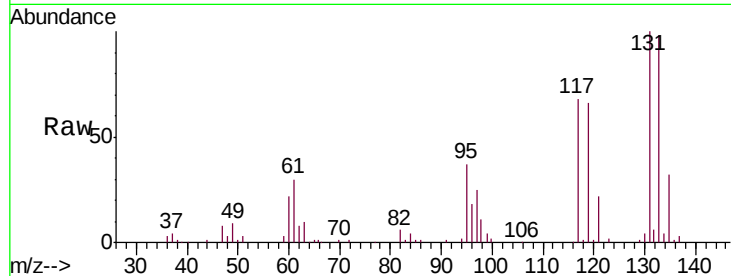
Tot Ion:131 Resp: 27082

Ion Ratio Lower Upper

131 100

133 95.4 0.0 191.2

119 66.2 0.0 125.4



#66

Ethyl Benzene

Concen: 19.03 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX003718.D

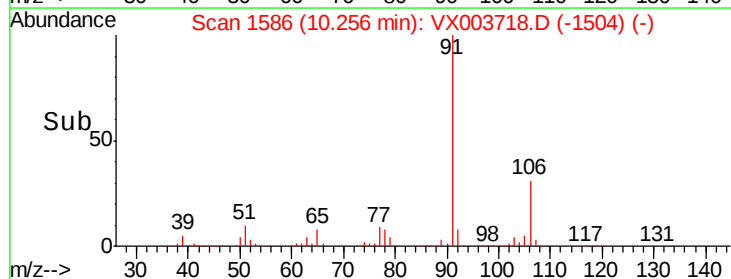
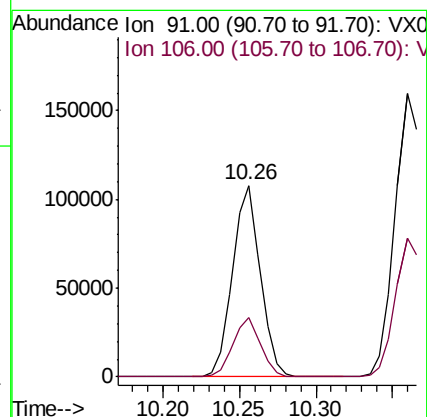
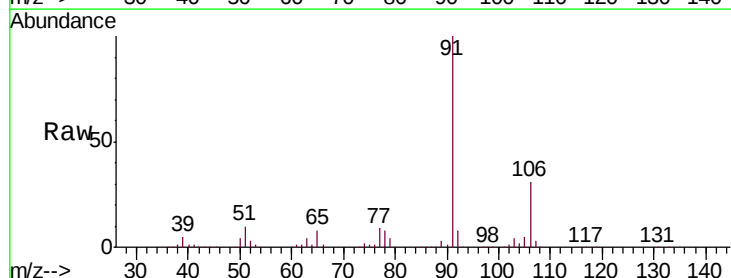
Acq: 27 Jul 2018 15:58

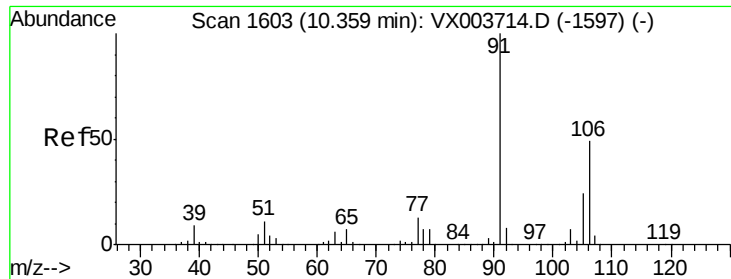
Tgt Ion: 91 Resp: 135653

Ion Ratio Lower Upper

91 100

106 30.9 25.2 37.8

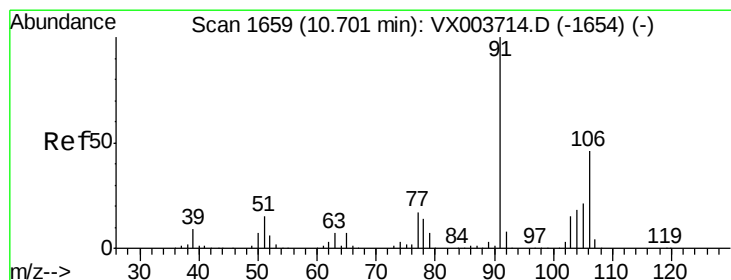
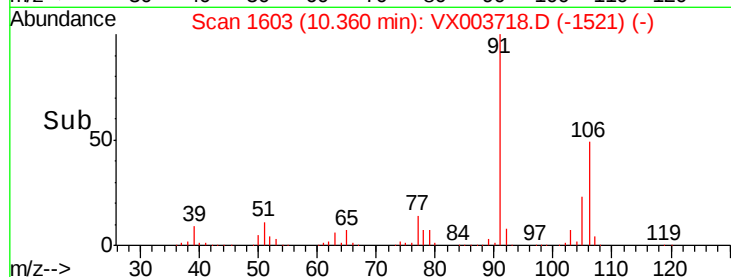
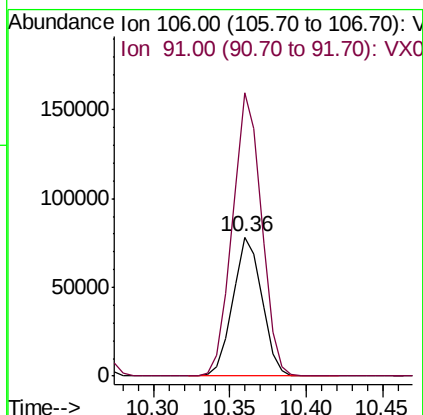
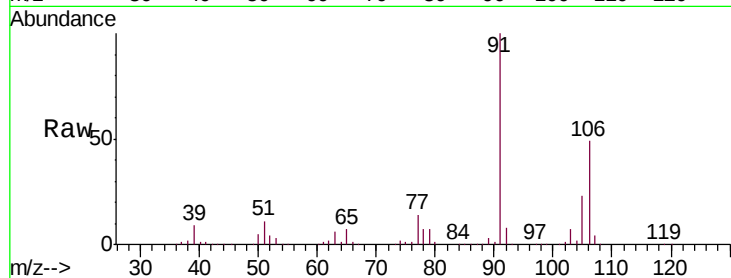




#67  
m/p-Xvlenes  
Concen: 37.70 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

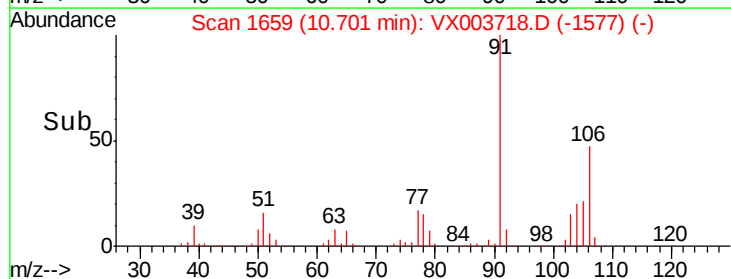
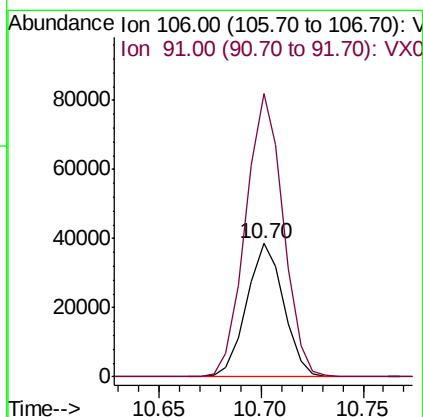
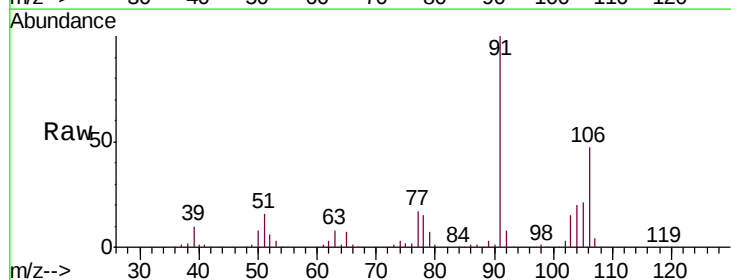
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

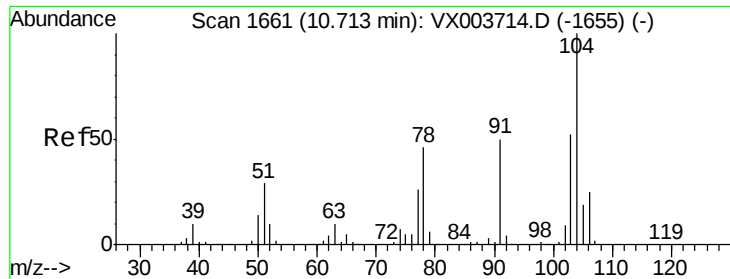
Tot Ion:106 Resp: 103494  
Ion Ratio Lower Upper  
106 100  
91 202.9 164.1 246.1



#68  
o-Xylene  
Concen: 18.64 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion:106 Resp: 48972  
Ion Ratio Lower Upper  
106 100  
91 215.4 109.1 327.3

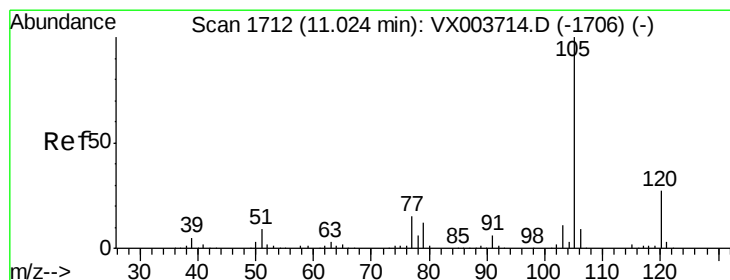
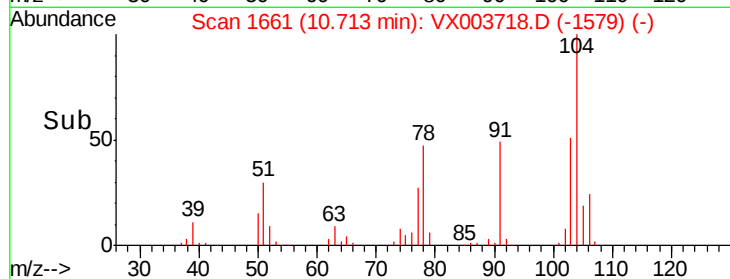
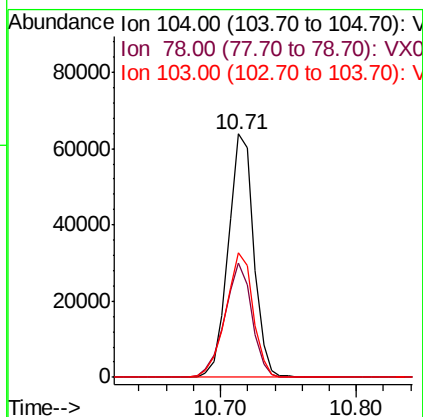
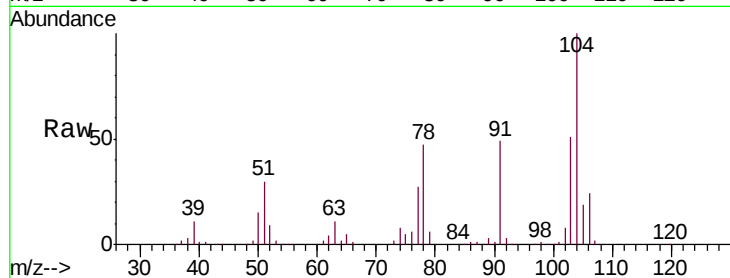




#69  
Stvrene  
Concen: 18.73 ug/l  
RT: 10.71 min Scan# 1661  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

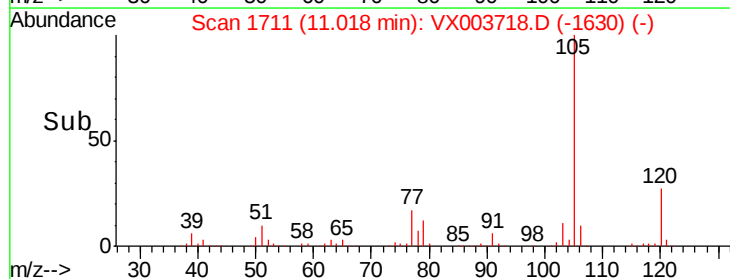
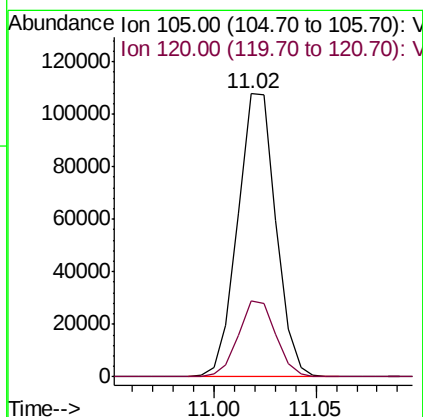
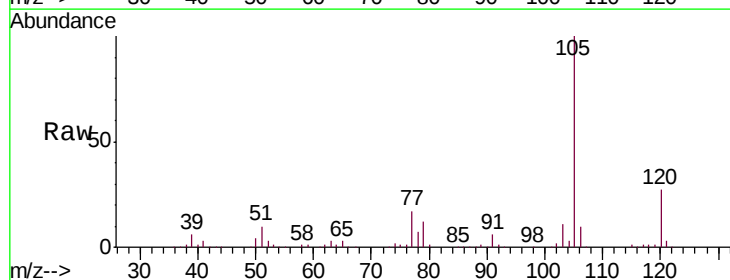
Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

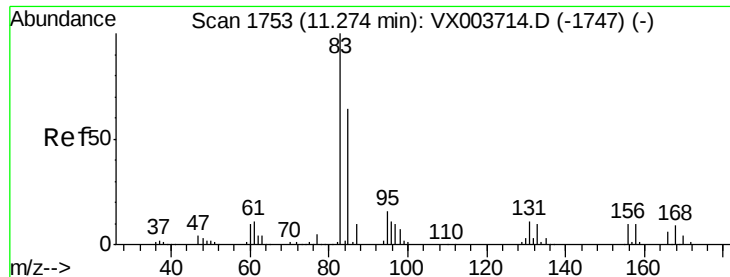
Tot Ion:104 Resp: 83304  
Ion Ratio Lower Upper  
104 100  
78 49.9 41.8 62.8  
103 54.8 44.9 67.3



#70  
Isopropylbenzene  
Concen: 19.39 ug/l  
RT: 11.02 min Scan# 1711  
Delta R.T. -0.01 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion:105 Resp: 140212  
Ion Ratio Lower Upper  
105 100  
120 26.5 19.0 35.2

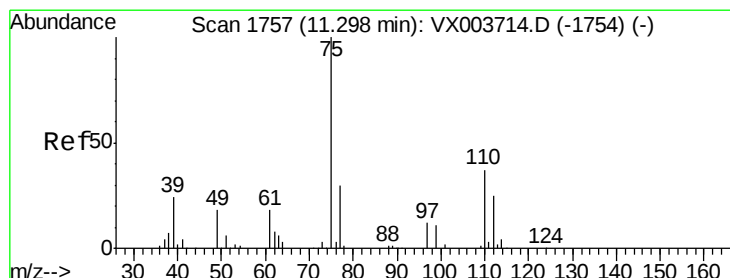
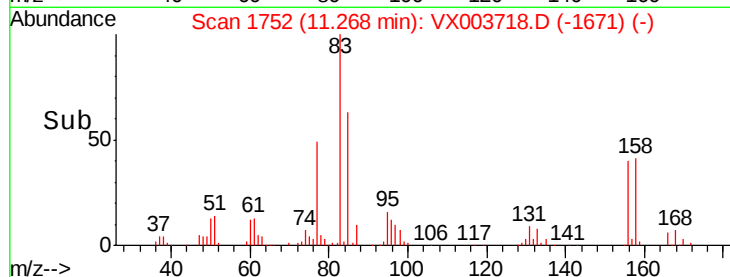
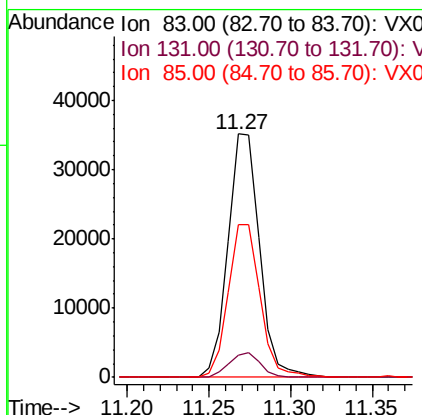
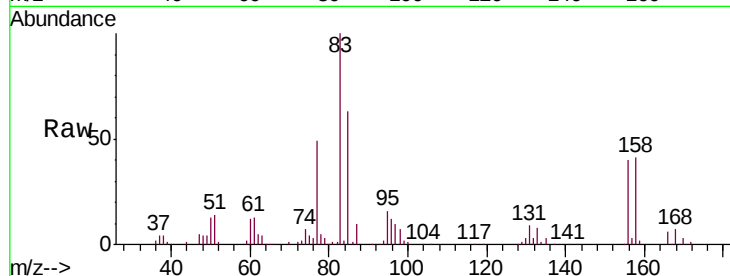




#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 18.32 ug/l  
 RT: 11.27 min Scan# 1752  
 Delta R.T. -0.01 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

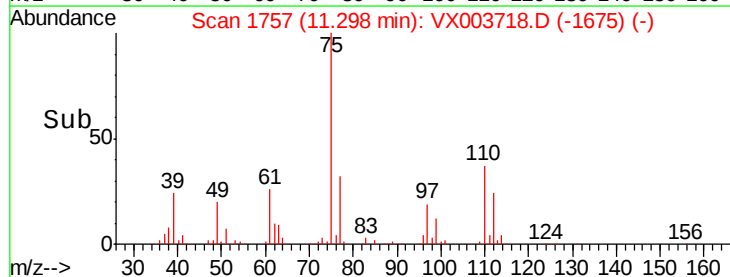
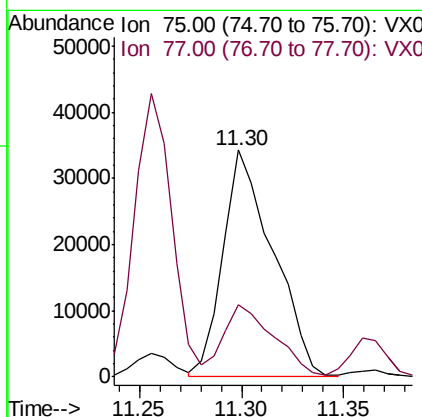
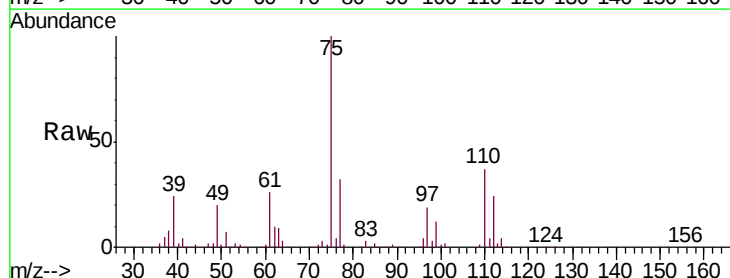
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

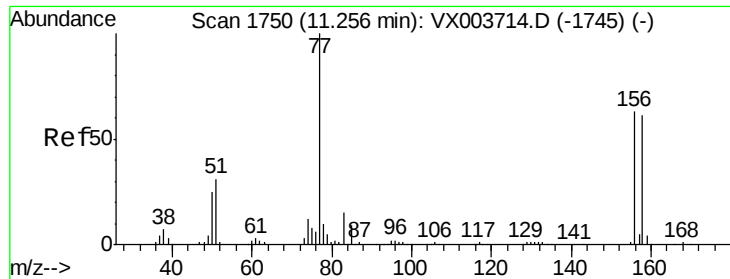
Tot Ion: 83 Resp: 47286  
 Ion Ratio Lower Upper  
 83 100  
 131 10.0 5.4 16.2  
 85 63.8 32.4 97.2



#72  
 1,2,3-Trichloropropane  
 Concen: 27.18 ug/l  
 RT: 11.30 min Scan# 1757  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion: 75 Resp: 58379  
 Ion Ratio Lower Upper  
 75 100  
 77 32.1 0.0 71.8





#73

Bromobenzene

Concen: 18.22 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

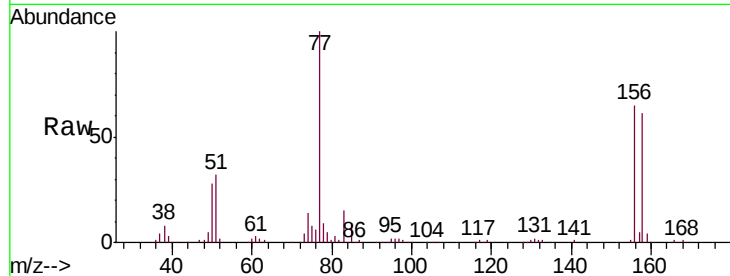
Tot Ion:156 Resp: 35519

Ion Ratio Lower Upper

156 100

77 154.3 0.0 301.0

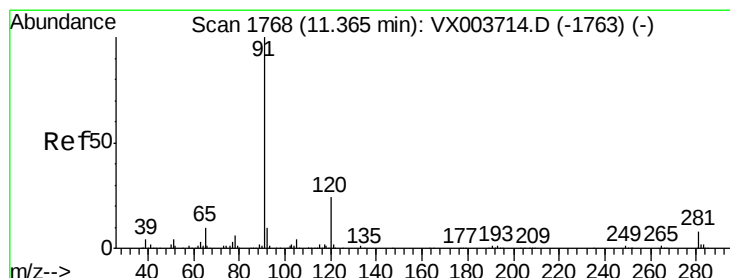
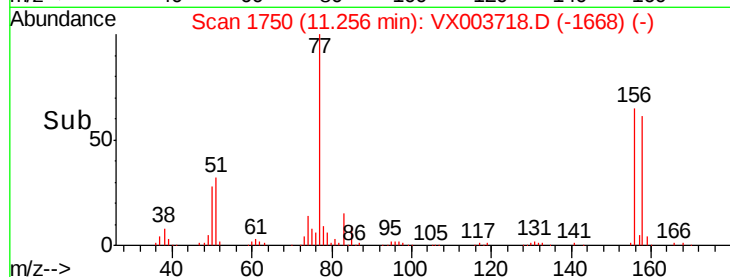
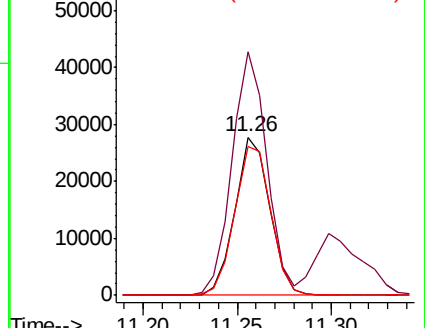
158 98.2 0.0 196.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 21.12 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VX003718.D

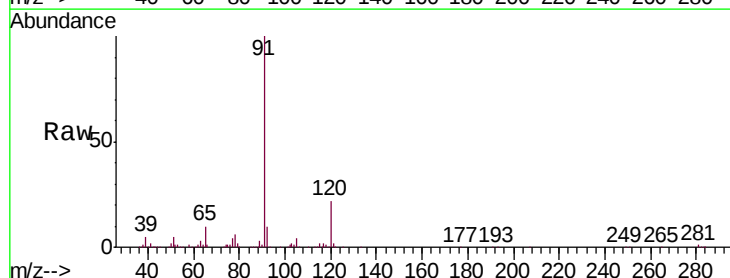
Acq: 27 Jul 2018 15:58

Tgt Ion: 91 Resp: 179893

Ion Ratio Lower Upper

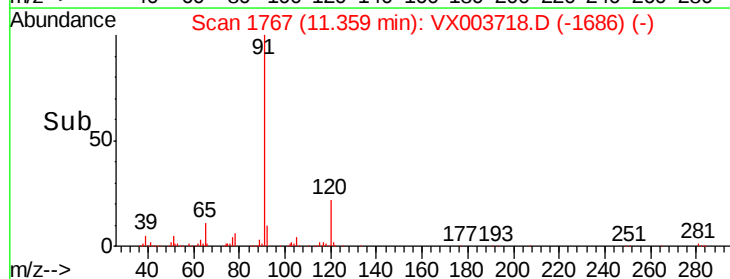
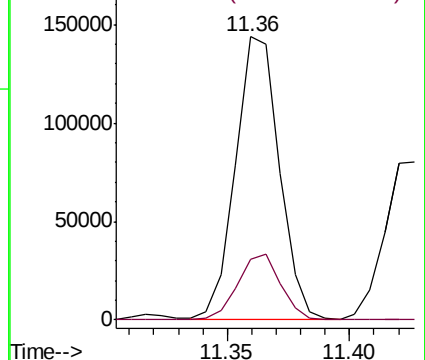
91 100

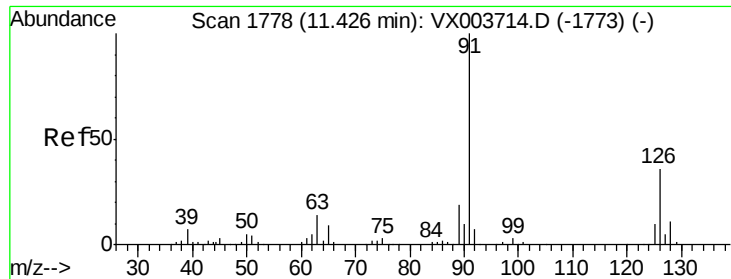
120 22.6 0.0 46.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.74 ug/l

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

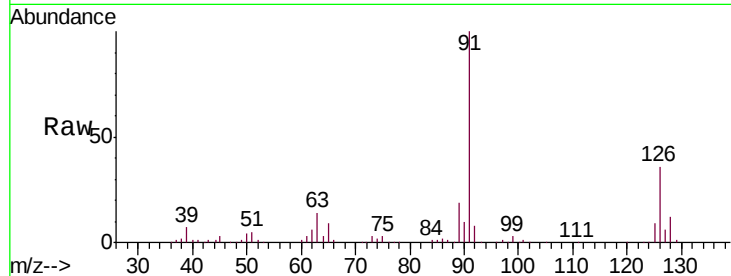
ICVVX072718

Tot Ion: 91 Resp: 104118

Ion Ratio Lower Upper

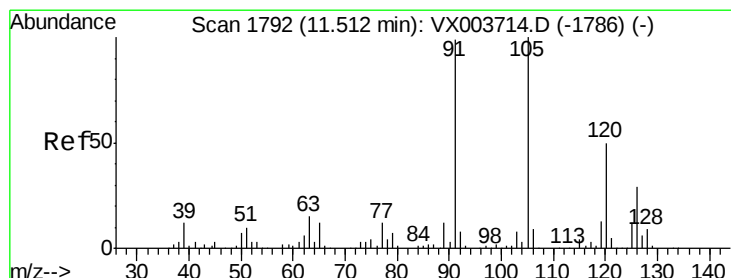
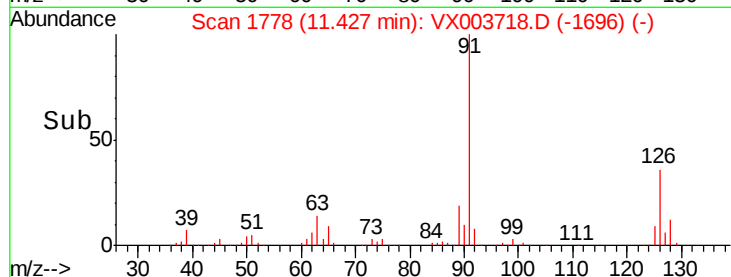
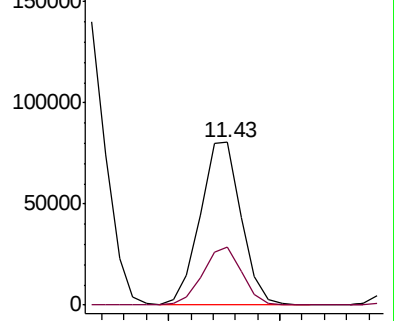
91 100

126 34.2 0.0 69.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V



#76

1,3,5-Trimethylbenzene

Concen: 20.32 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX003718.D

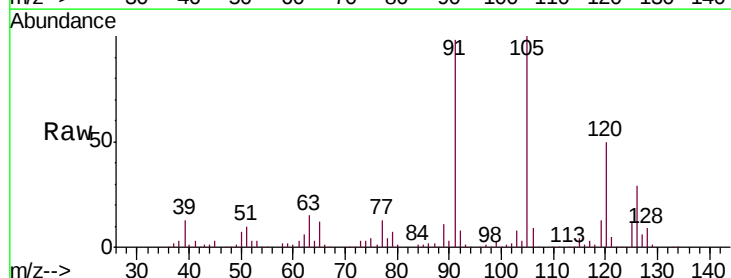
Acq: 27 Jul 2018 15:58

Tgt Ion:105 Resp: 124690

Ion Ratio Lower Upper

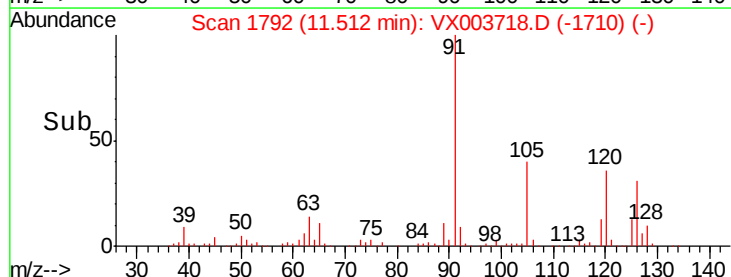
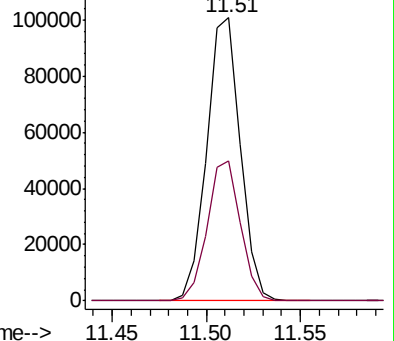
105 100

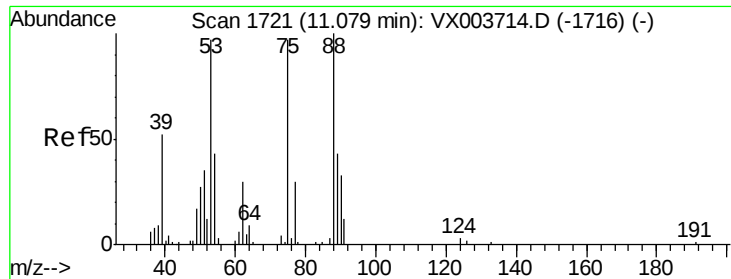
120 49.0 0.0 96.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#77

t-1,4-Dichloro-2-butene

Concen: 18.18 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

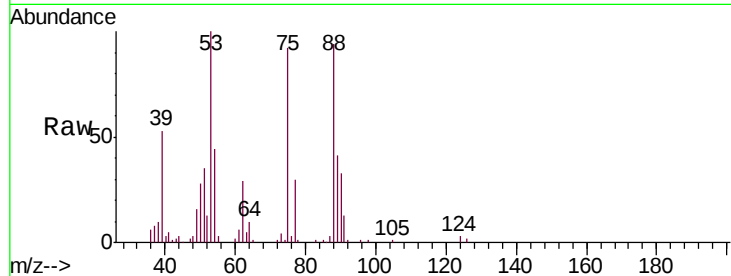
Tot Ion: 75 Resp: 13306

Ion Ratio Lower Upper

75 100

53 108.5 48.3 144.9

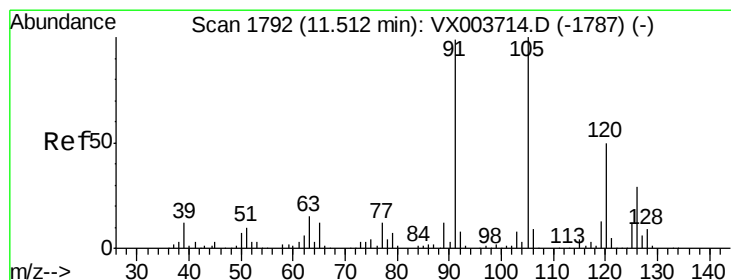
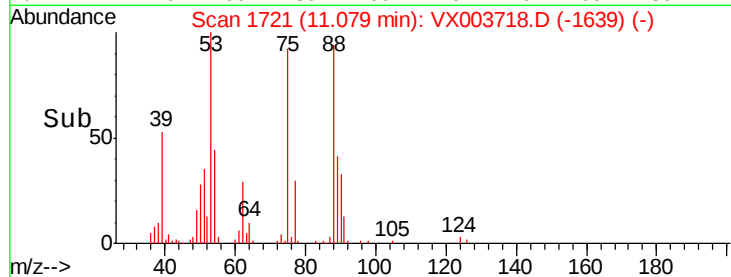
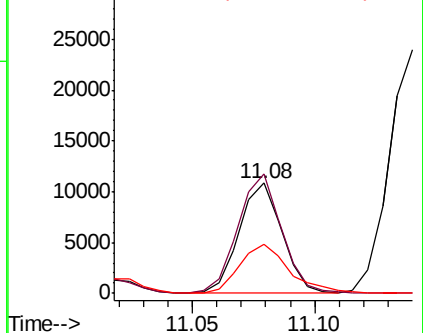
89 44.8 21.8 65.4



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0



#78

4-Chlorotoluene

Concen: 20.70 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX003718.D

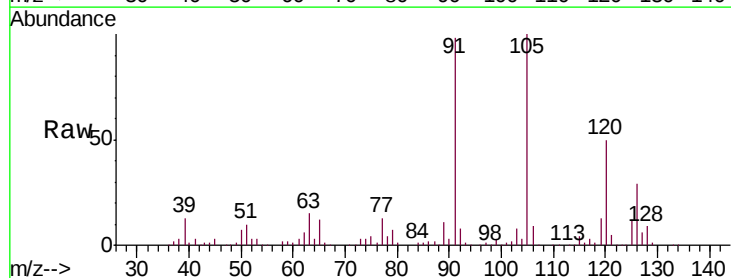
Acq: 27 Jul 2018 15:58

Tgt Ion: 91 Resp: 121603

Ion Ratio Lower Upper

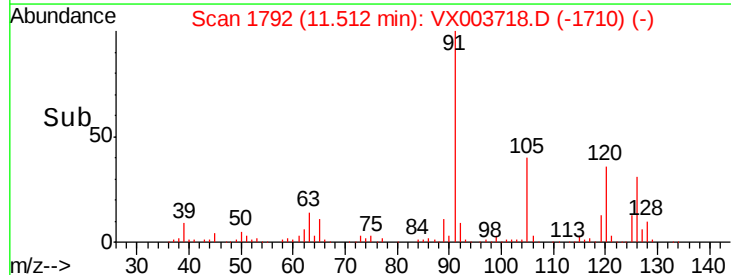
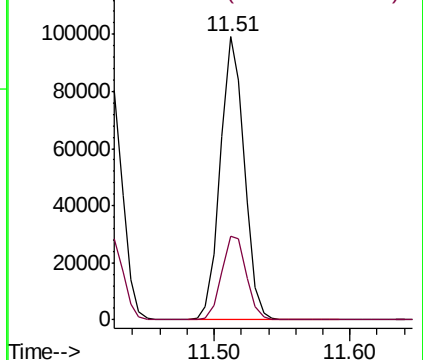
91 100

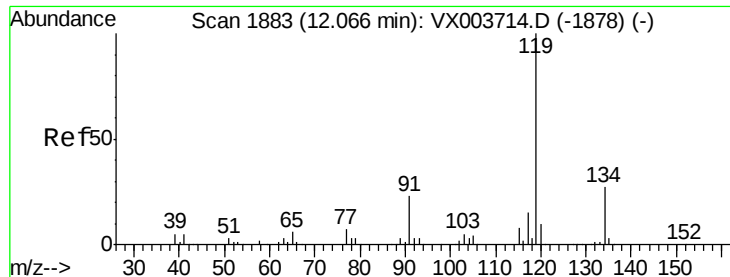
126 30.3 0.0 61.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V





#79

tert-butylbenzene

Concen: 20.72 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003718.D

Acq: 27 Jul 2018 15:58

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX072718

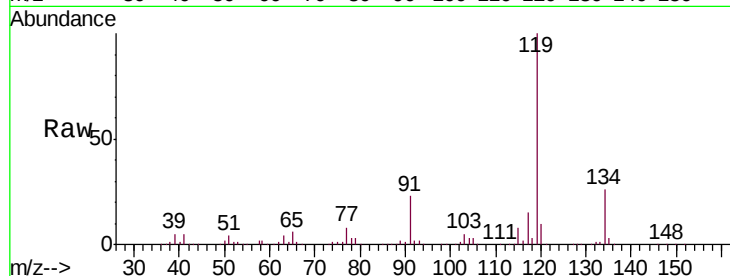
Tot Ion:119 Resp: 130815

Ion Ratio Lower Upper

119 100

91 23.1 0.0 48.0

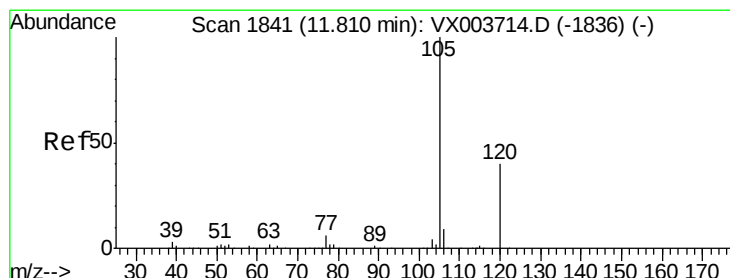
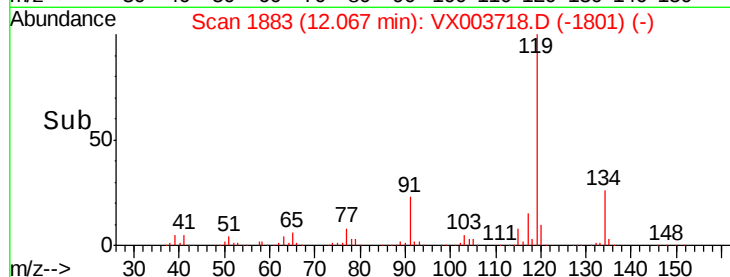
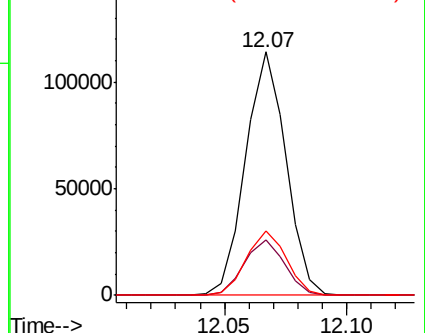
134 26.4 0.0 52.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 19.30 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX003718.D

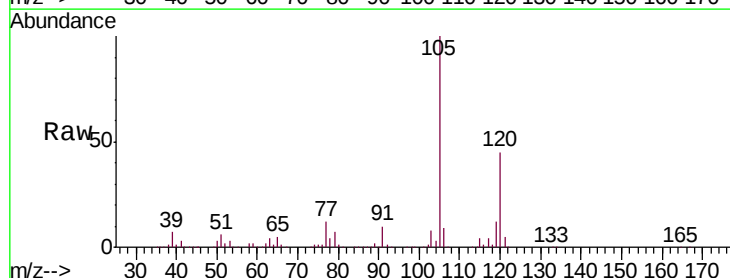
Acq: 27 Jul 2018 15:58

Tgt Ion:105 Resp: 121205

Ion Ratio Lower Upper

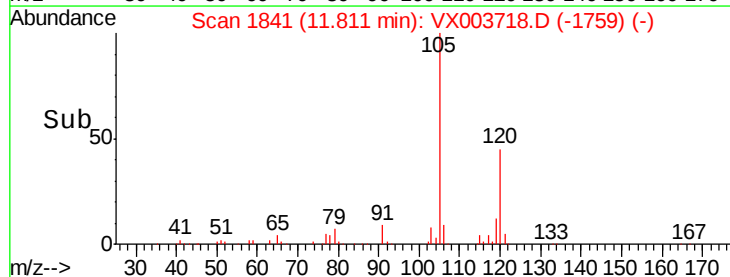
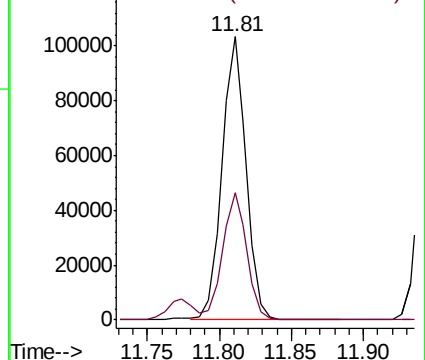
105 100

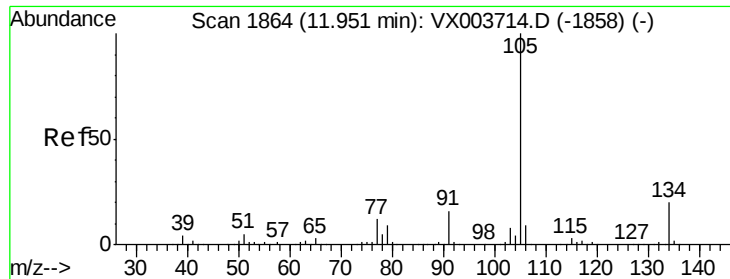
120 44.7 0.0 89.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

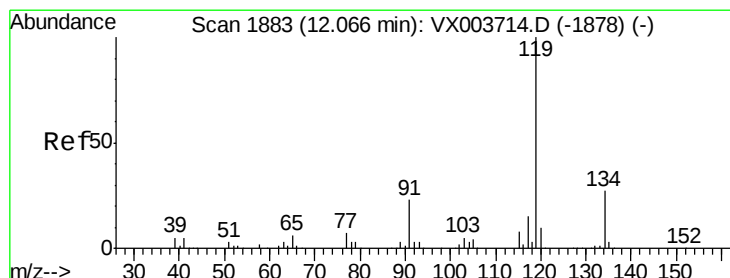
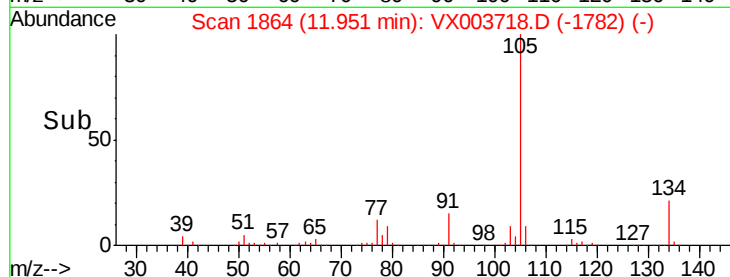
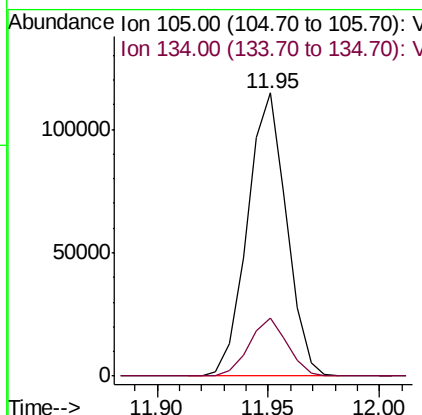
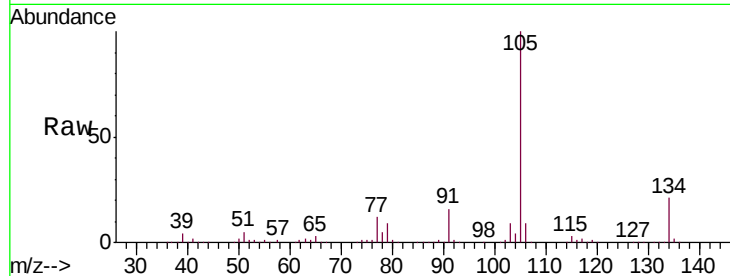




#81  
 sec-Butylbenzene  
 Concen: 19.68 ug/l  
 RT: 11.95 min Scan# 1864  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

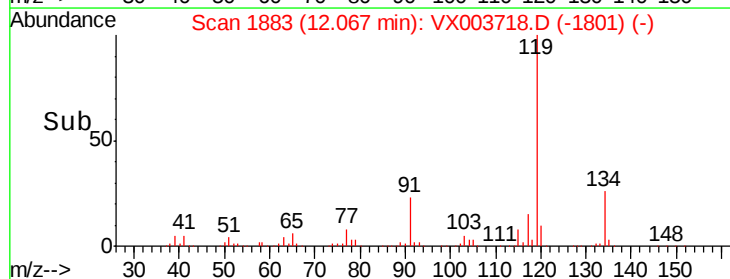
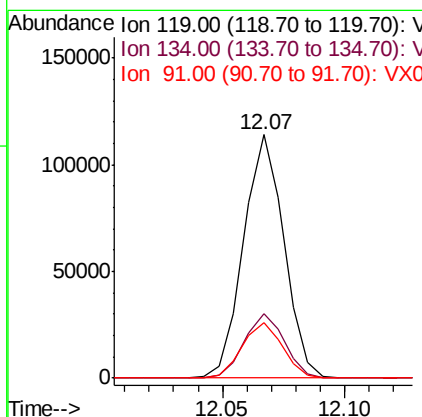
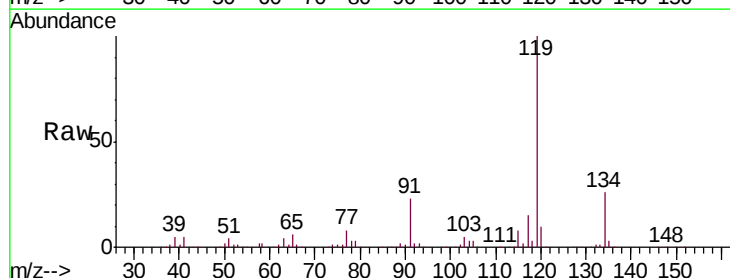
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 ICVVX072718

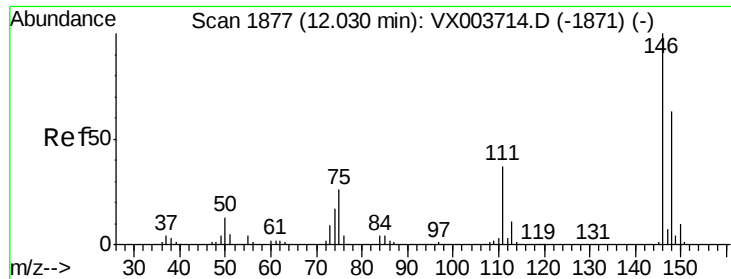
Tot Ion:105 Resp: 140630  
 Ion Ratio Lower Upper  
 105 100  
 134 20.1 0.0 41.6



#82  
 p-Isopropyltoluene  
 Concen: 20.72 ug/l  
 RT: 12.07 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion:119 Resp: 130815  
 Ion Ratio Lower Upper  
 119 100  
 134 26.4 0.0 52.6  
 91 23.1 0.0 48.0

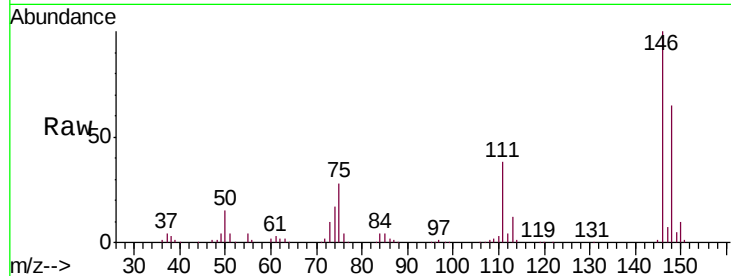




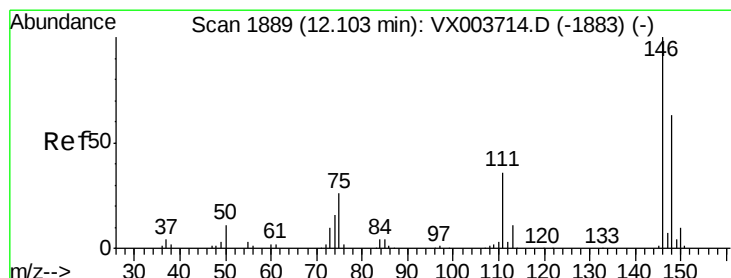
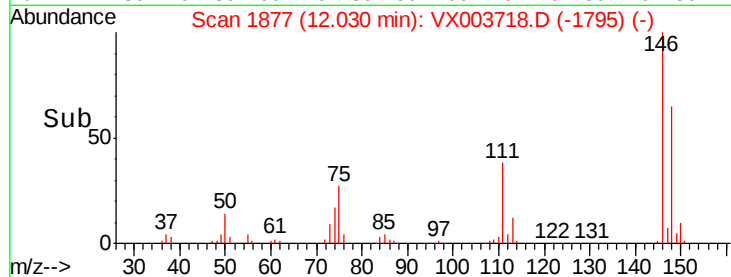
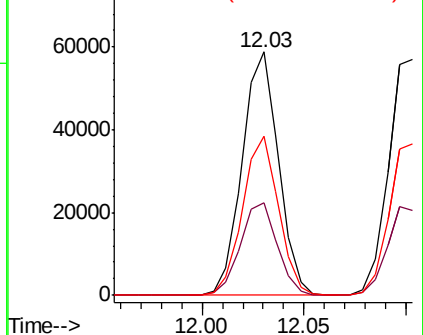
#83  
 1,3-Dichlorobenzene  
 Concen: 20.51 ug/l  
 RT: 12.03 min Scan# 1877  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

Tot Ion:146 Resp: 73012  
 Ion Ratio Lower Upper  
 146 100  
 111 38.6 19.1 57.5  
 148 64.7 31.9 95.7

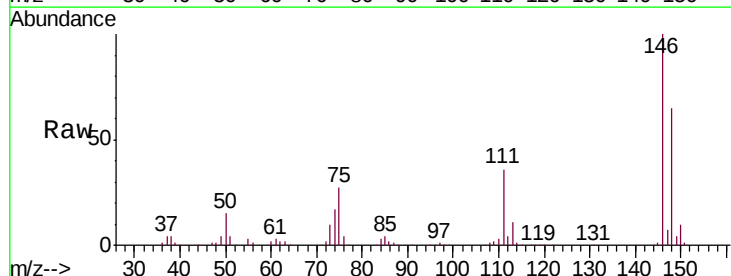


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

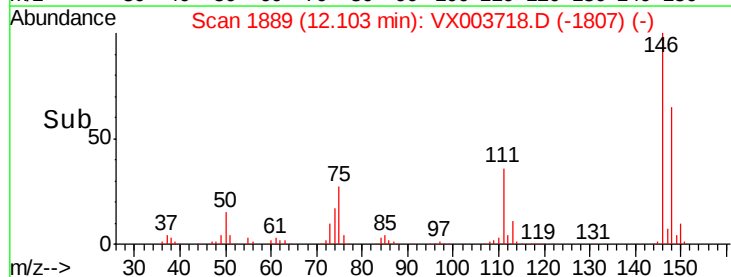
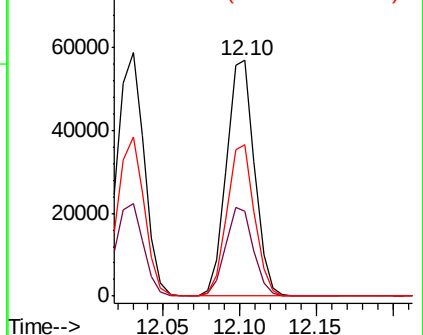


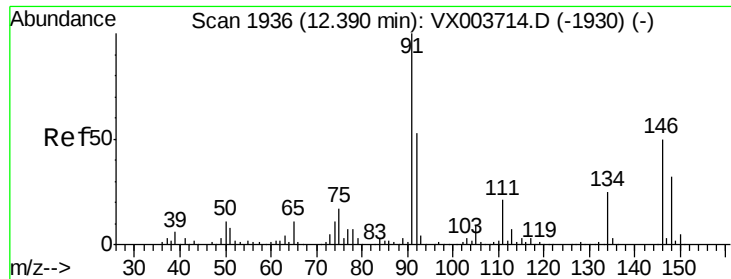
#84  
 1,4-Dichlorobenzene  
 Concen: 20.26 ug/l  
 RT: 12.10 min Scan# 1889  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion:146 Resp: 72592  
 Ion Ratio Lower Upper  
 146 100  
 111 37.1 18.5 55.5  
 148 62.8 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V

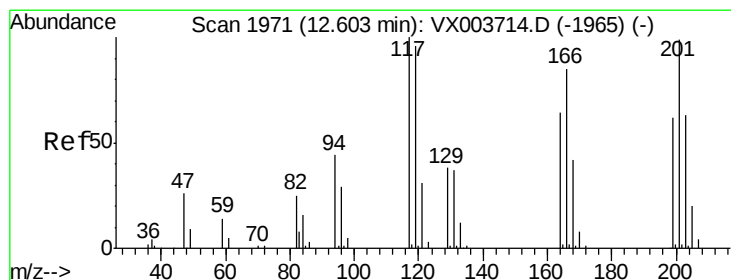
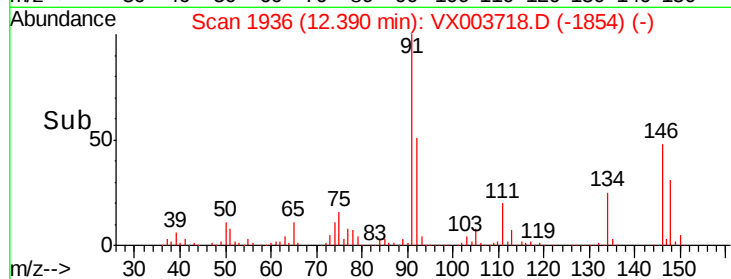
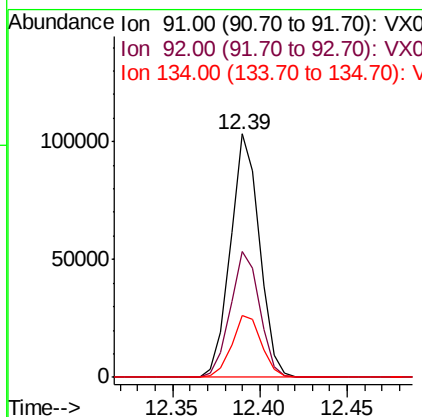
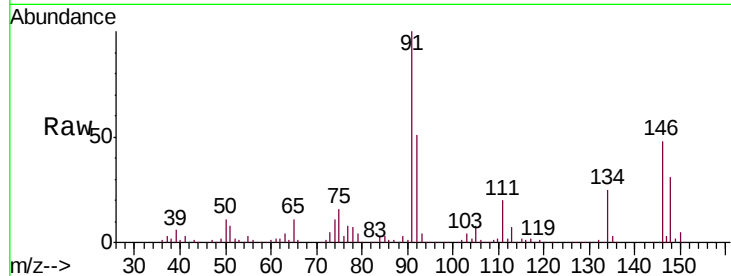




#85  
n-Butylbenzene  
Concen: 21.25 ug/l  
RT: 12.39 min Scan# 1936  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

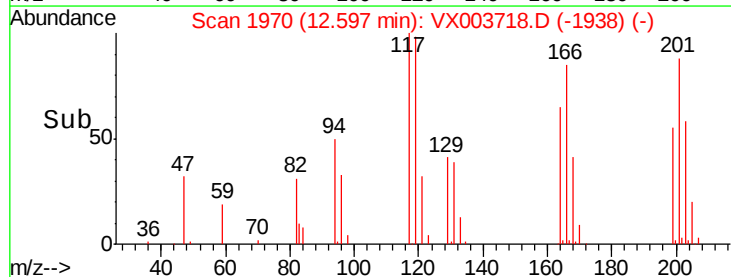
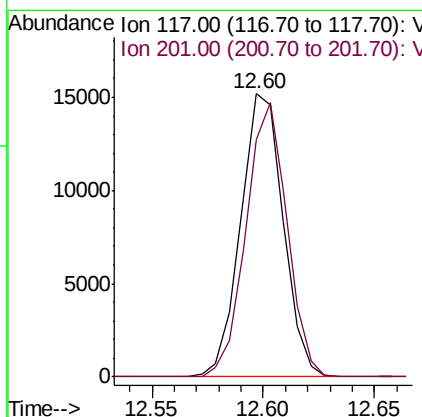
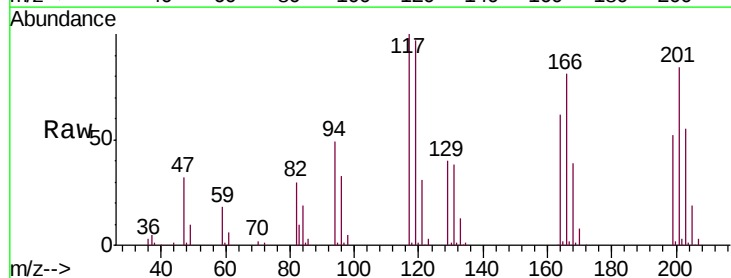
Instrument :  
MSVOA\_X  
ClientSampled :  
ICVVX072718

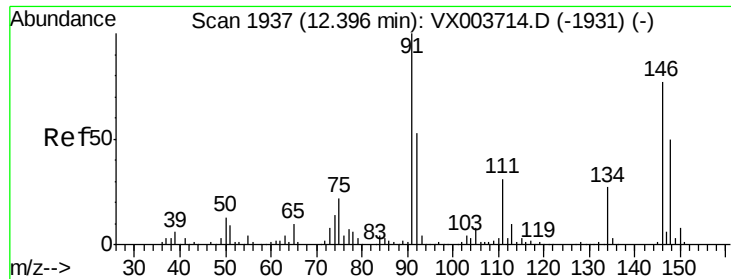
Tot Ion: 91 Resp: 119101  
Ion Ratio Lower Upper  
91 100  
92 52.4 0.0 105.2  
134 26.0 0.0 53.2



#86  
Hexachloroethane  
Concen: 19.93 ug/l  
RT: 12.60 min Scan# 1970  
Delta R.T. -0.01 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion: 117 Resp: 20280  
Ion Ratio Lower Upper  
117 100  
201 93.0 47.6 142.8

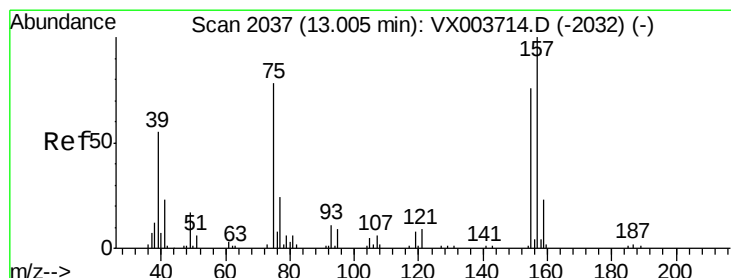
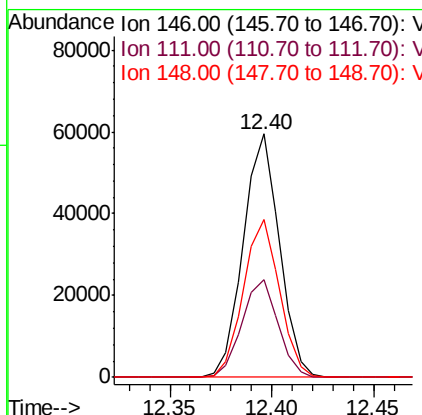
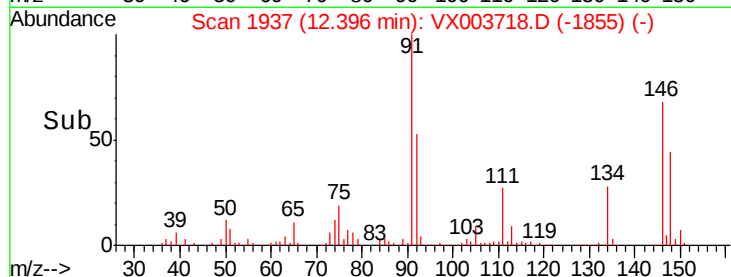
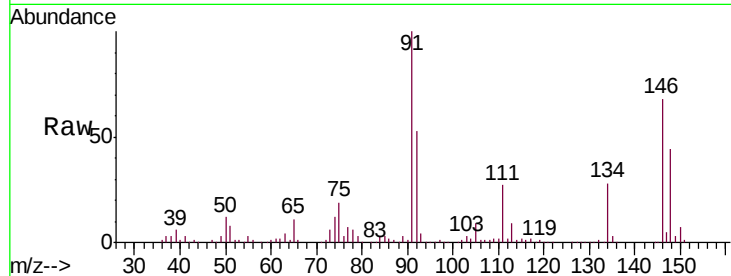




#87  
 1,2-Dichlorobenzene  
 Concen: 20.53 ug/l  
 RT: 12.40 min Scan# 1937  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

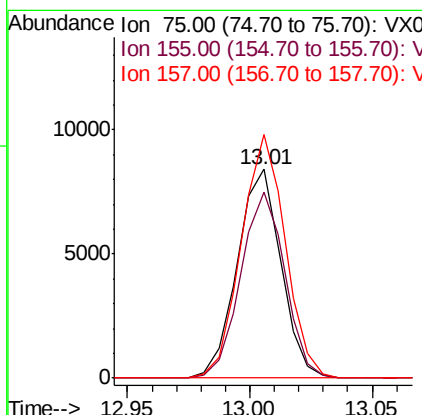
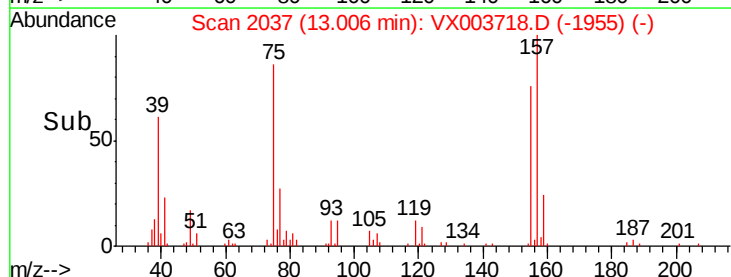
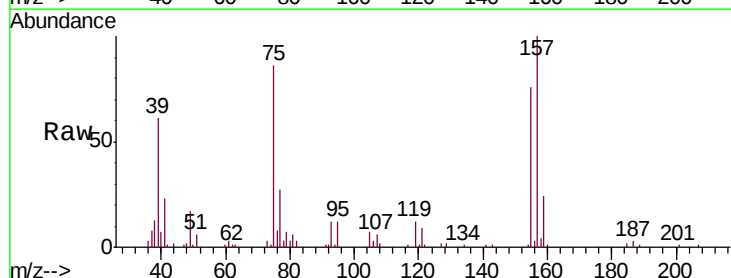
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX072718

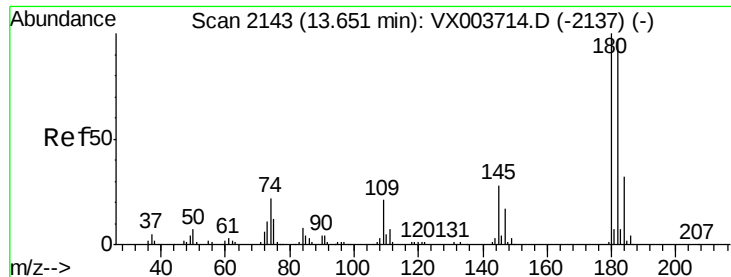
Tot Ion:146 Resp: 73355  
 Ion Ratio Lower Upper  
 146 100  
 111 40.0 20.0 59.9  
 148 64.9 32.8 98.3



#88  
 1,2-Dibromo-3-Chloropropane  
 Concen: 19.26 ug/l  
 RT: 13.01 min Scan# 2037  
 Delta R.T. 0.00 min  
 Lab File: VX003718.D  
 Acq: 27 Jul 2018 15:58

Tgt Ion: 75 Resp: 10497  
 Ion Ratio Lower Upper  
 75 100  
 155 89.7 73.1 109.7  
 157 116.9 93.1 139.7

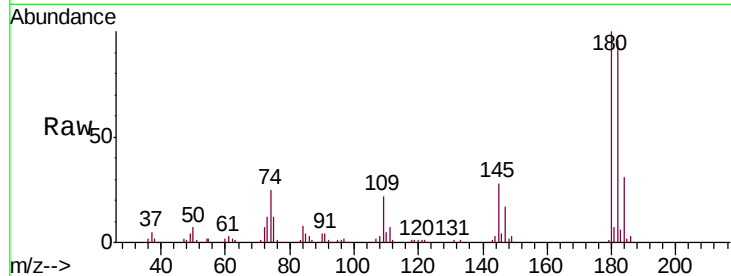




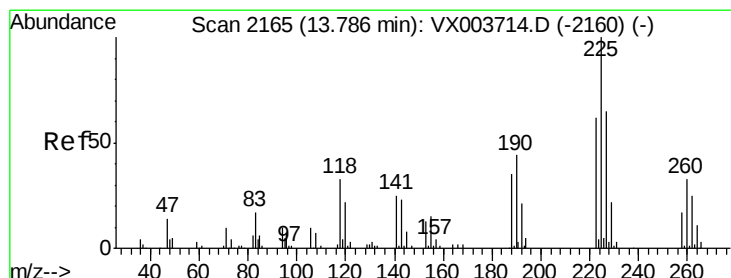
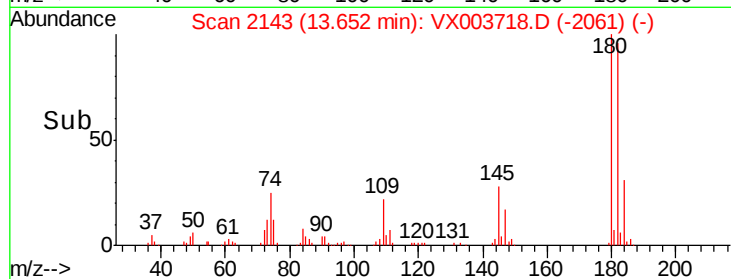
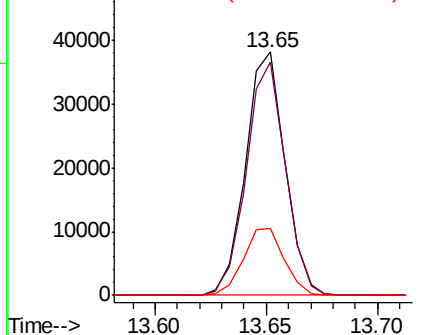
#89  
1,2,4-Trichlorobenzene  
Concen: 18.86 ug/l  
RT: 13.65 min Scan# 2143  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX072718

Tot Ion:180 Resp: 47308  
Ion Ratio Lower Upper  
180 100  
182 94.8 76.4 114.6  
145 28.5 22.9 34.3

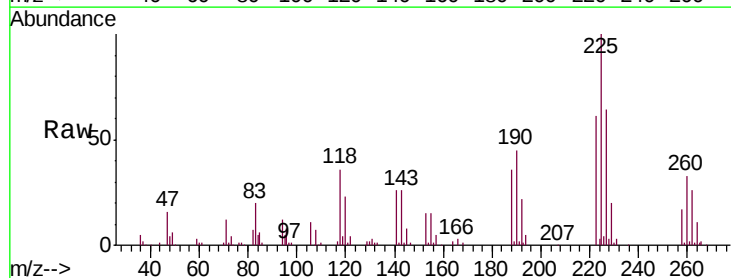


Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

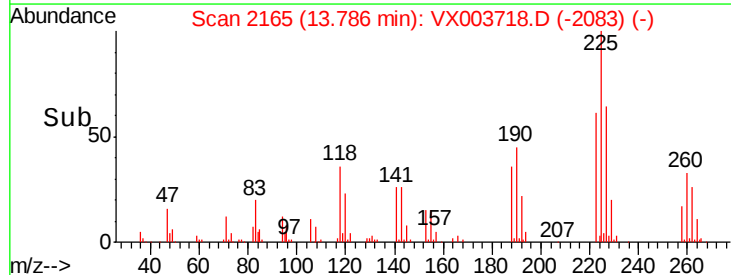
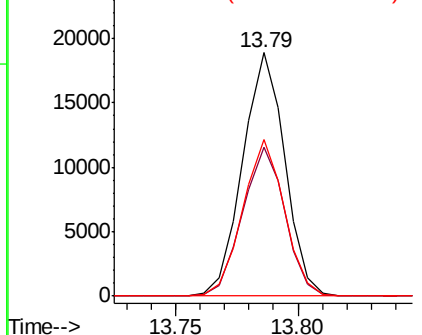


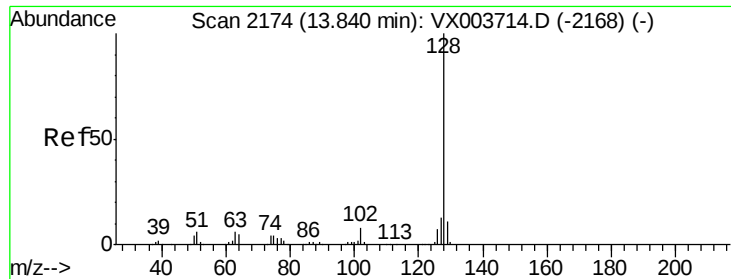
#90  
Hexachlorobutadiene  
Concen: 19.93 ug/l  
RT: 13.79 min Scan# 2165  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion:225 Resp: 22666  
Ion Ratio Lower Upper  
225 100  
223 61.9 0.0 122.4  
227 63.1 0.0 128.0



Abundance Ion 225.00 (224.70 to 225.70): V  
Ion 223.00 (222.70 to 223.70): V  
Ion 227.00 (226.70 to 227.70): V

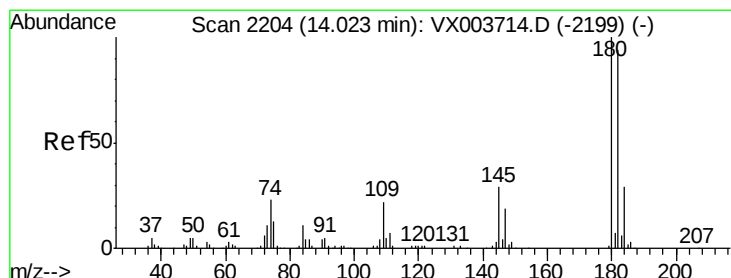
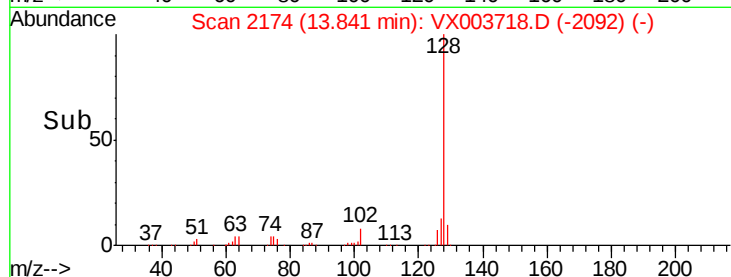
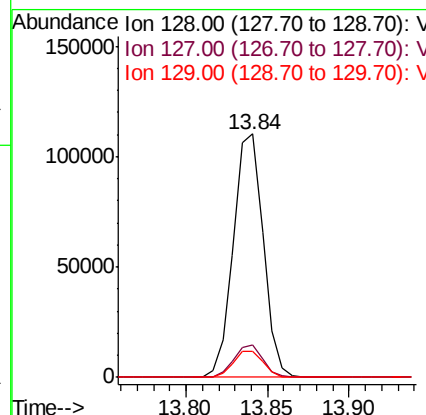
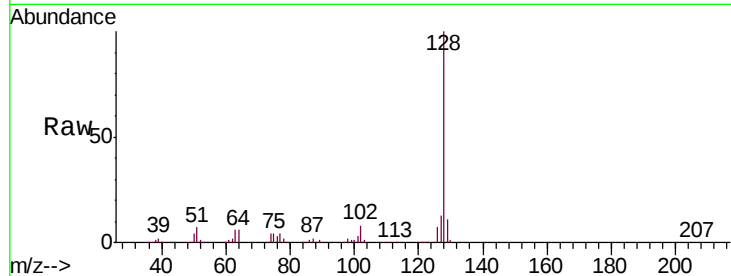




#91  
Naphthalene  
Concen: 18.31 ug/l  
RT: 13.84 min Scan# 2174  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Instrument :  
MSVOA\_X  
ClientSampled :  
ICVVX072718

Tot Ion:128 Resp: 140402  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.3 15.5  
129 11.0 8.9 13.3



#92  
1,2,3-Trichlorobenzene  
Concen: 18.67 ug/l  
RT: 14.02 min Scan# 2204  
Delta R.T. 0.00 min  
Lab File: VX003718.D  
Acq: 27 Jul 2018 15:58

Tgt Ion:180 Resp: 47685  
Ion Ratio Lower Upper  
180 100  
182 95.3 0.0 191.0  
145 30.7 0.0 60.6

