

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\  
 Data File : VX002683.D  
 Acq On : 18 Jun 2018 16:48  
 Operator : JC/MD  
 Sample : VX0618WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 19 04:59:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jun 18 15:18:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.03  | 128  | 43423    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.87  | 114  | 244664   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 215904   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.07   | 65    | 98454    | 29.69    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 98.97%  |
| 60) 4-Bromofluorobenzene  | 11.14  | 95    | 99326    | 27.85    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 92.83%  |
| 63) Toluene-d8            | 8.72   | 98    | 285510   | 30.27    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 100.90% |

## Target Compounds

|                               |      |     |      |             | Ovalue |
|-------------------------------|------|-----|------|-------------|--------|
| 2) Dichlorodifluoromethane    | 1.20 | 85  | 249  | 0.12 ug/l   | 85     |
| 3) Chloromethane              | 1.32 | 50  | 526  | 0.23 ug/l # | 60     |
| 4) Vinyl Chloride             | 1.40 | 62  | 285  | 0.11 ug/l # | 62     |
| 5) Bromomethane               | 1.66 | 94  | 1066 | 0.73 ug/l   | 82     |
| 6) Chloroethane               | 1.41 | 64  | 824  | 0.49 ug/l   | 95     |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 408  | 0.09 ug/l   | 93     |
| 8) Diethyl Ether              | 2.20 | 74  | 120  | 0.08 ug/l   | 90     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.38 | 101 | 178  | 0.07 ug/l # | 72     |
| 10) 1,1-Dichloroethene        | 2.38 | 96  | 330  | 0.15 ug/l # | 38     |
| 11) Methyl Iodide             | 2.53 | 142 | 883  | 0.34 ug/l   | 93     |
| 12) Methyl Acetate            | 2.79 | 43  | 462  | 0.13 ug/l # | 56     |
| 13) Acrolein                  | 2.27 | 56  | 102  | 0.39 ug/l   | 94     |
| 14) Acrylonitrile             | 3.15 | 53  | 638  | 0.47 ug/l   | 92     |
| 15) Acetone                   | 2.45 | 58  | 238  | 0.62 ug/l # | 58     |
| 16) Carbon Disulfide          | 2.57 | 76  | 3899 | 0.69 ug/l # | 93     |
| 17) Allyl chloride            | 2.73 | 41  | 195  | 0.04 ug/l # | 76     |
| 18) Methylene Chloride        | 2.86 | 84  | 580  | 0.23 ug/l # | 89     |
| 19) trans-1,2-Dichloroethene  | 3.17 | 96  | 687  | 0.29 ug/l # | 90     |
| 20) Diisopropyl ether         | 3.86 | 45  | 148  | 0.02 ug/l # | 60     |
| 21) 1,1-Dichloroethane        | 3.71 | 63  | 247  | 0.06 ug/l # | 84     |
| 22) cis-1,2-Dichloroethene    | 4.59 | 96  | 203  | 0.08 ug/l # | 8      |
| 23) tert-Butyl Alcohol        | 3.01 | 59  | 401  | 0.64 ug/l # | 68     |
| 24) Methyl tert-Butyl Ether   | 3.23 | 73  | 42   | 0.01 ug/l # | 1      |
| 25) Chloroform                | 5.23 | 83  | 23   | 0.01 ug/l # | 82     |
| 26) Cyclohexane               | 5.57 | 56  | 105  | 0.03 ug/l # | 9      |
| 29) 1,1-Dichloropropene       | 5.79 | 75  | 321  | 0.10 ug/l   | 88     |
| 30) 2-Butanone                | 4.73 | 43  | 229  | 0.12 ug/l # | 59     |
| 31) 2,2-Dichloropropane       | 4.57 | 77  | 69   | 0.02 ug/l # | 52     |
| 32) 1,1,1-Trichloroethane     | 5.50 | 97  | 95   | 0.02 ug/l # | 51     |
| 33) Carbon Tetrachloride      | 5.78 | 117 | 23   | 0.01 ug/l # | 14     |
| 34) Benzene                   | 6.14 | 78  | 329  | 0.03 ug/l # | 75     |
| 35) Methacrylonitrile         | 5.08 | 41  | 121  | 0.06 ug/l # | 26     |
| 36) 1,2-Dichloroethane        | 6.20 | 62  | 347  | 0.09 ug/l # | 77     |
| 37) Trichloroethene           | 7.21 | 130 | 496  | 0.17 ug/l   | 96     |
| 38) Methylcyclohexane         | 7.46 | 83  | 443  | 0.11 ug/l # | 33     |
| 39) 1,2-Dichloropropane       | 7.50 | 63  | 45   | 0.02 ug/l # | 46     |
| 40) Dibromomethane            | 7.67 | 93  | 188  | 0.11 ug/l   | 55     |

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 MSVOA\_X  
 ClientSampleId :

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jun 18 15:18:02 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 41) Bromodichloromethane       | 7.90  | 83   | 93       | 0.03  | ug/l # | 26       |
| 42) Vinyl Acetate              | 3.84  | 43   | 151      | 0.02  | ug/l # | 76       |
| 43) Ethyl Acetate              | 5.01  | 43   | 220      | 0.06  | ug/l   | 96       |
| 44) Isopropyl Acetate          | 6.46  | 43   | 43       | 0.01  | ug/l # | 59       |
| 46) Methyl methacrylate        | 7.76  | 41   | 69       | 0.02  | ug/l # | 37       |
| 47) n-amyl Acetate             | 10.90 | 43   | 211      | 0.04  | ug/l # | 100      |
| 48) t-1,3-Dichloropropene      | 8.43  | 75   | 249      | 0.06  | ug/l   | 99       |
| 49) cis-1,3-Dichloropropene    | 9.05  | 75   | 400      | 0.11  | ug/l # | 87       |
| 50) 1,1,2-Trichloroethane      | 9.22  | 97   | 86       | 0.03  | ug/l # | 47       |
| 51) Ethyl methacrylate         | 9.20  | 69   | 50       | 0.01  | ug/l # | 48       |
| 52) 1,3-Dichloropropane        | 9.38  | 76   | 95       | 0.02  | ug/l   | 70       |
| 53) Dibromochloromethane       | 9.34  | 129  | 309      | 0.11  | ug/l # | 11       |
| 54) 1,2-Dibromoethane          | 9.68  | 107  | 216      | 0.08  | ug/l   | 92       |
| 55) 2-Chloroethyl vinyl ether  | 8.32  | 63   | 404      | 0.22  | ug/l # | 88       |
| 56) Bromoform                  | 11.14 | 173  | 1306     | 0.59  | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone       | 8.64  | 43   | 319      | 0.09  | ug/l # | 62       |
| 59) 2-Hexanone                 | 9.49  | 43   | 127      | 0.05  | ug/l # | 47       |
| 61) Tetrachloroethene          | 9.34  | 164  | 426      | 0.14  | ug/l   | 83       |
| 62) Toluene                    | 8.79  | 91   | 841      | 0.08  | ug/l # | 81       |
| 64) Chlorobenzene              | 10.15 | 112  | 998      | 0.14  | ug/l   | 93       |
| 65) 1,1,1,2-Tetrachloroethane  | 10.23 | 131  | 58       | 0.02  | ug/l # | 1        |
| 66) Ethyl Benzene              | 10.26 | 91   | 1166     | 0.10  | ug/l   | 89       |
| 67) m/p-Xylenes                | 10.36 | 106  | 771      | 0.17  | ug/l   | 79       |
| 68) o-Xylene                   | 10.70 | 106  | 287      | 0.06  | ug/l   | 71       |
| 69) Styrene                    | 10.71 | 104  | 756      | 0.10  | ug/l # | 87       |
| 70) Isopropylbenzene           | 11.02 | 105  | 792      | 0.06  | ug/l   | 93       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.28 | 83   | 57       | 0.02  | ug/l # | 48       |
| 72) 1,2,3-Trichloropropane     | 11.30 | 75   | 200      | 0.06  | ug/l   | 89       |
| 73) Bromobenzene               | 11.26 | 156  | 560      | 0.16  | ug/l   | 77       |
| 74) n-propylbenzene            | 11.37 | 91   | 1358     | 0.10  | ug/l   | 91       |
| 75) 2-Chlorotoluene            | 11.42 | 91   | 915      | 0.11  | ug/l   | 82       |
| 76) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 742      | 0.07  | ug/l   | 97       |
| 77) t-1,4-Dichloro-2-butene    | 11.14 | 75   | 52423    | 51.40 | ug/l # | 11       |
| 78) 4-Chlorotoluene            | 11.51 | 91   | 1370     | 0.14  | ug/l   | 90       |
| 79) tert-butylbenzene          | 12.07 | 119  | 838      | 0.07  | ug/l   | 83       |
| 80) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 986      | 0.09  | ug/l   | 88       |
| 81) sec-Butylbenzene           | 11.95 | 105  | 948      | 0.07  | ug/l   | 89       |
| 82) p-Isopropyltoluene         | 12.07 | 119  | 838      | 0.07  | ug/l   | 83       |
| 83) 1,3-Dichlorobenzene        | 12.03 | 146  | 1099     | 0.18  | ug/l   | 86       |
| 84) 1,4-Dichlorobenzene        | 12.10 | 146  | 1195     | 0.19  | ug/l   | 93       |
| 85) n-Butylbenzene             | 12.39 | 91   | 1120     | 0.11  | ug/l   | 98       |
| 86) Hexachloroethane           | 12.61 | 117  | 44       | 0.03  | ug/l # | 2        |
| 87) 1,2-Dichlorobenzene        | 12.40 | 146  | 906      | 0.14  | ug/l   | 92       |
| 88) 1,2-Dibromo-3-Chloropropan | 13.09 | 75   | 46       | 0.06  | ug/l # | 1        |
| 89) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 1083     | 0.23  | ug/l   | 94       |
| 90) Hexachlorobutadiene        | 13.78 | 225  | 359      | 0.14  | ug/l   | 85       |
| 91) Naphthalene                | 13.84 | 128  | 1922     | 0.15  | ug/l # | 90       |
| 92) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 767      | 0.16  | ug/l   | 91       |

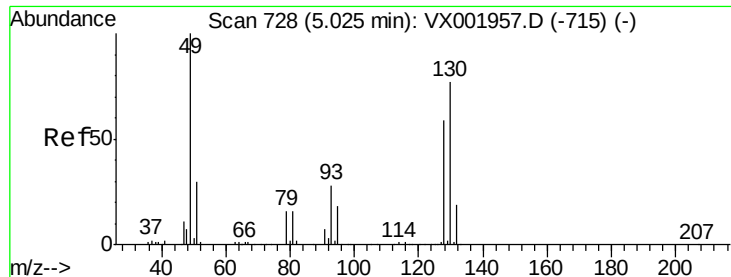
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\  
Data File : VX002683.D  
Acq On : 18 Jun 2018 16:48  
Operator : JC/MD  
Sample : VX0618WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 19 04:59:08 2018  
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jun 18 15:18:02 2018  
Response via : Initial Calibration

| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

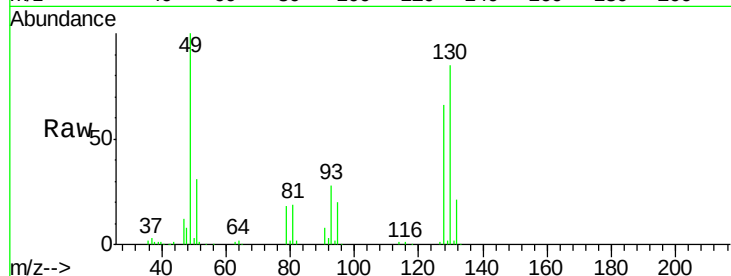
Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:128 Resp: 43423

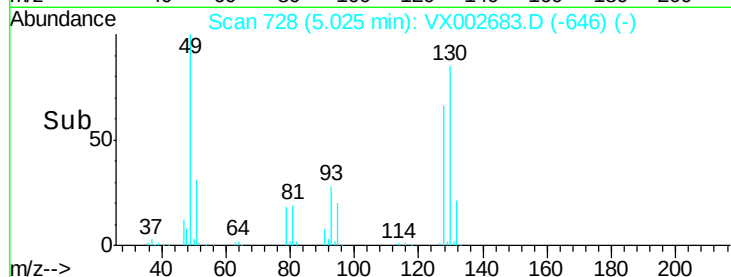
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 155.8 | 0.0   | 423.0 |
| 130 | 127.3 | 0.0   | 324.3 |



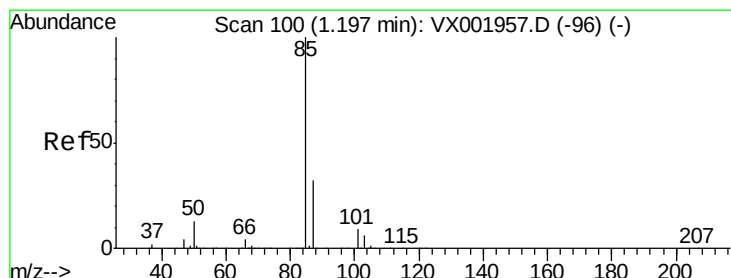
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.12 ug/l

RT: 1.20 min Scan# 100

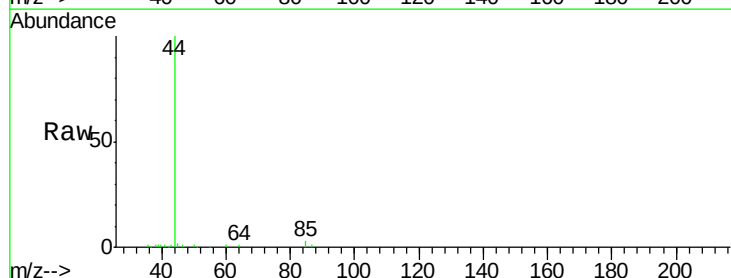
Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

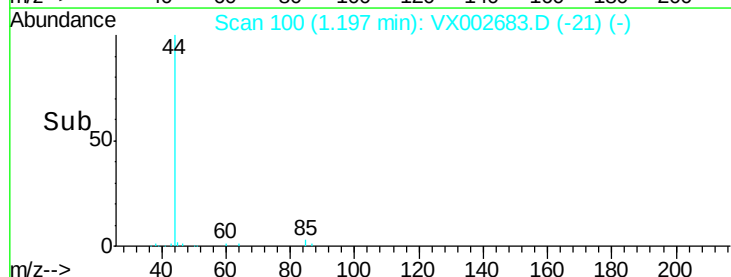
Tgt Ion: 85 Resp: 249

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 23.9  | 16.2  | 48.5  |

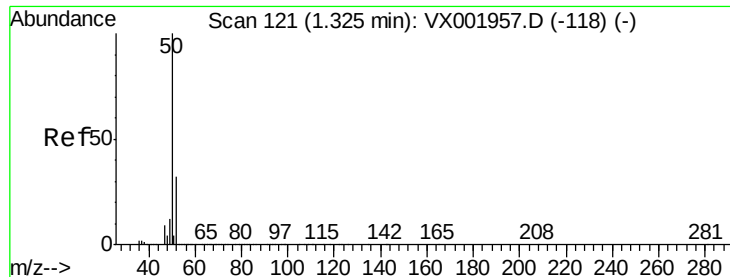


Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



Time-->



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

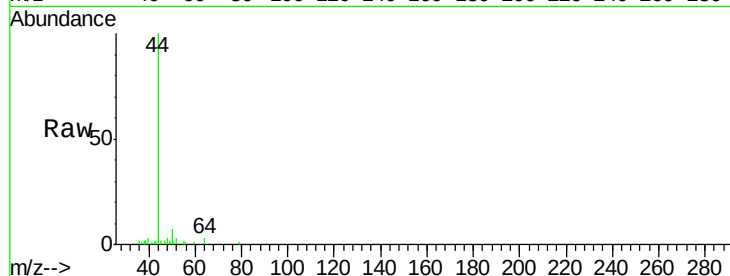
ClientSampleId :

Tot Ion: 50 Resp: 526

Ion Ratio Lower Upper

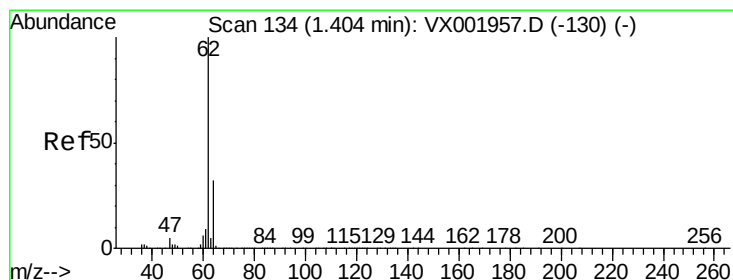
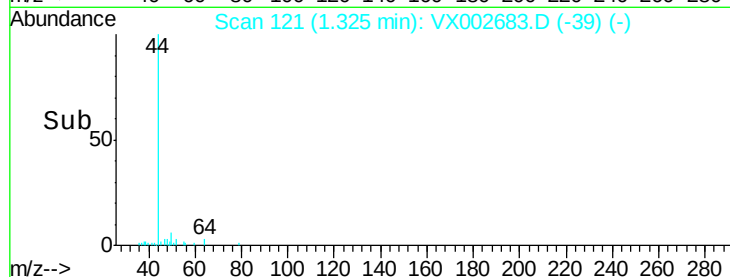
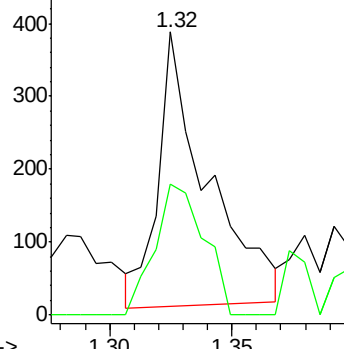
50 100

52 54.1 25.6 38.4#



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#4

Vinyl Chloride

Concen: 0.11 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX002683.D

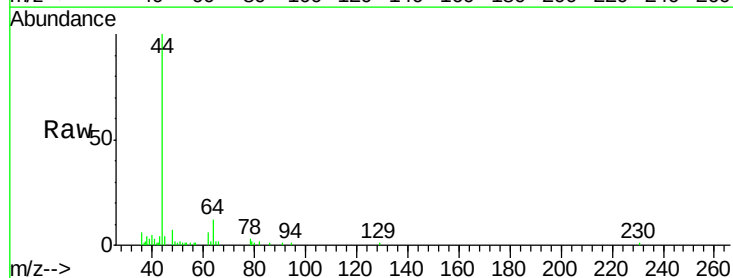
Acq: 18 Jun 2018 16:48

Tgt Ion: 62 Resp: 285

Ion Ratio Lower Upper

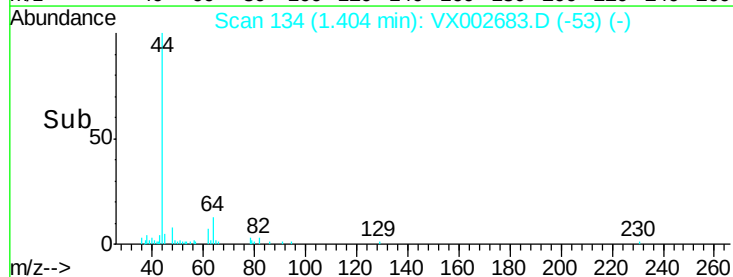
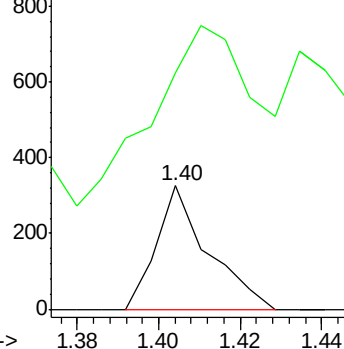
62 100

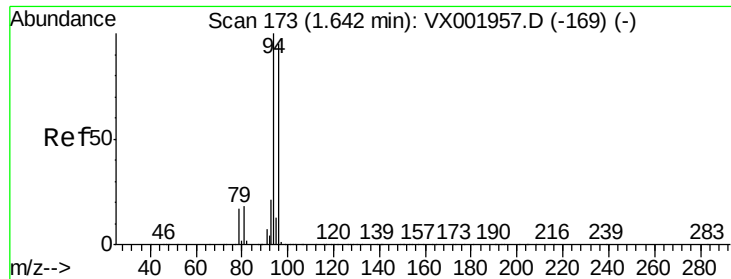
64 52.9 25.3 37.9#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.00 (63.70 to 64.70): VX0





#5

Bromomethane

Concen: 0.73 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

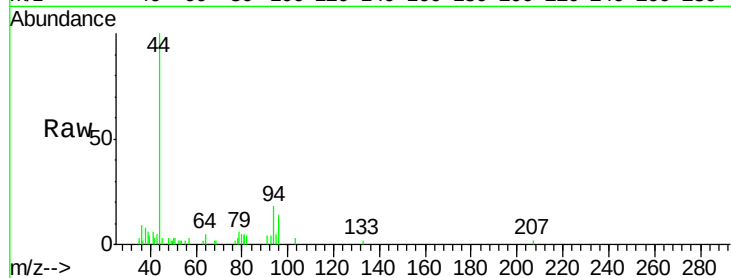
ClientSampleId :

Tot Ion: 94 Resp: 1066

Ion Ratio Lower Upper

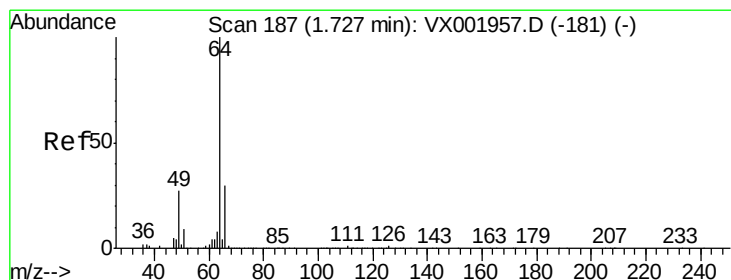
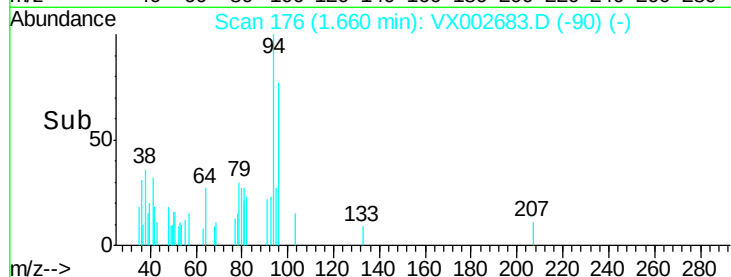
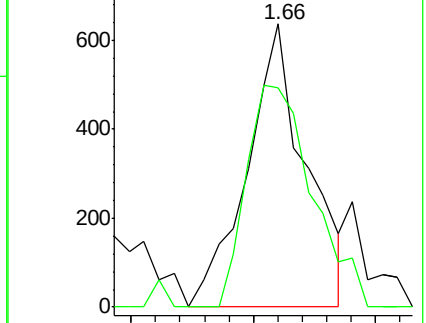
94 100

96 77.4 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: 0.49 ug/l

RT: 1.41 min Scan# 135

Delta R.T. -0.30 min

Lab File: VX002683.D

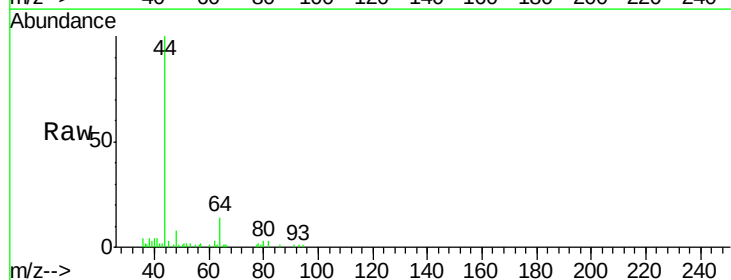
Acq: 18 Jun 2018 16:48

Tgt Ion: 64 Resp: 824

Ion Ratio Lower Upper

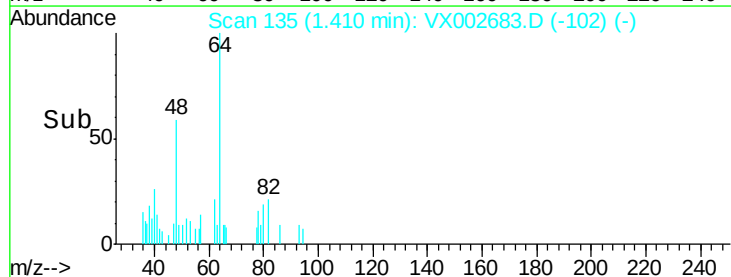
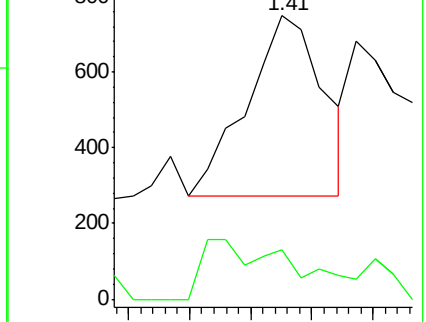
64 100

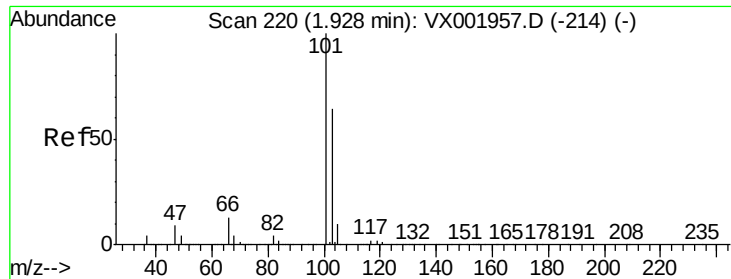
66 27.5 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



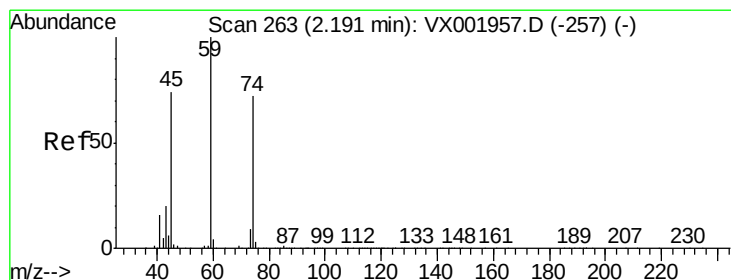
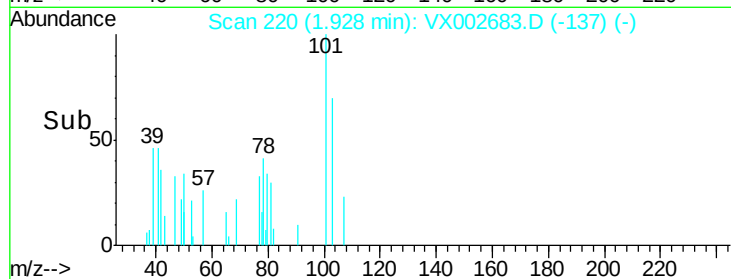
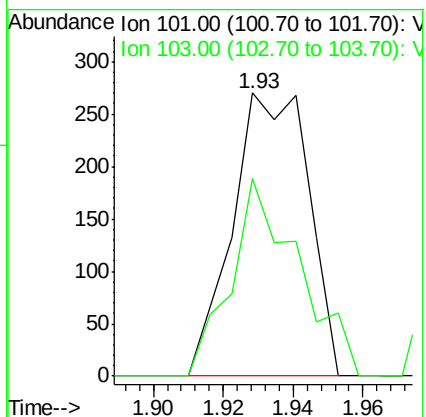
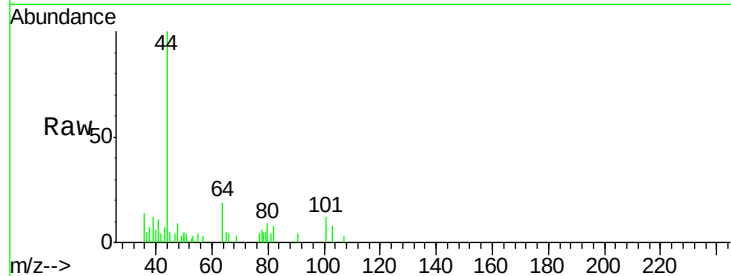


#7

Trichlorofluoromethane  
Concen: 0.09 ug/l  
RT: 1.93 min Scan# 220  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Instrument :  
MSVOA\_X  
ClientSampled :

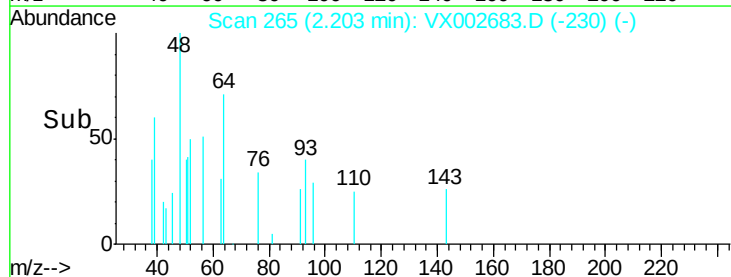
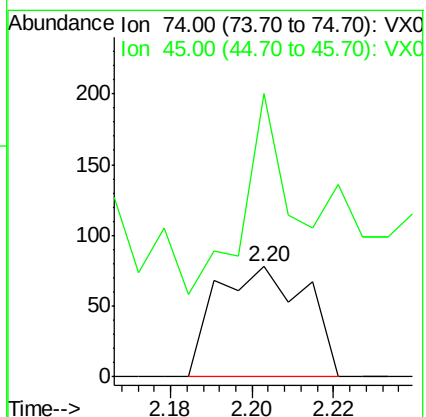
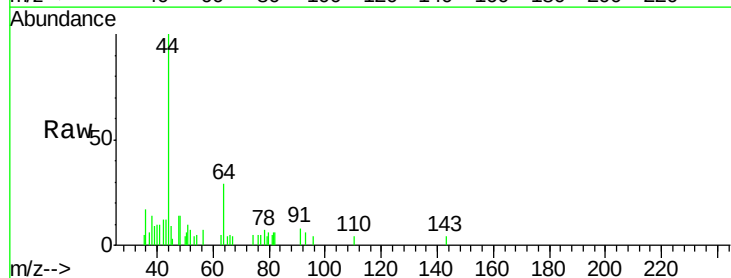
Tot Ion:101 Resp: 408  
Ion Ratio Lower Upper  
101 100  
103 69.6 51.5 77.3



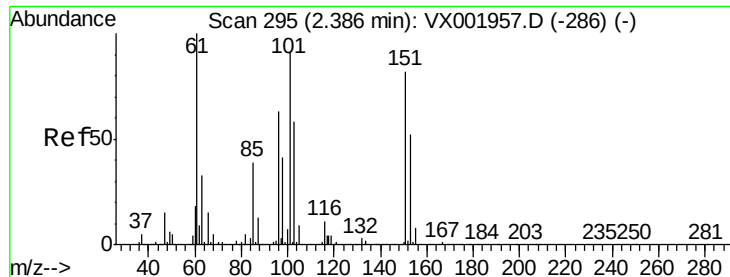
#8

Diethyl Ether  
Concen: 0.08 ug/l  
RT: 2.20 min Scan# 265  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 74 Resp: 120  
Ion Ratio Lower Upper  
74 100  
45 92.5 20.5 184.5







#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.07 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX002683.D

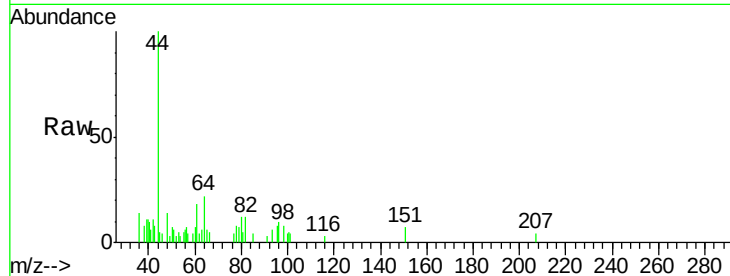
Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

ClientSampled :

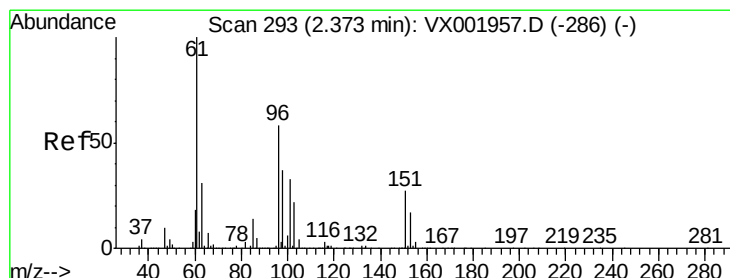
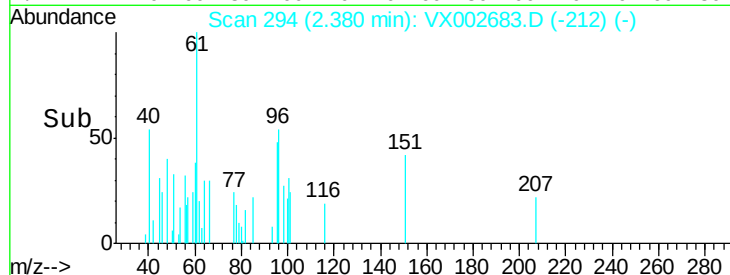
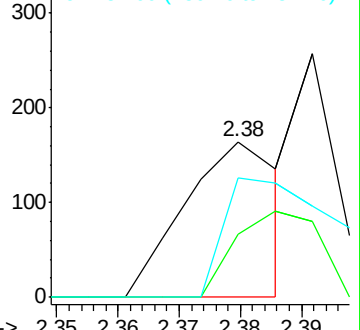
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 101   | Resp: | 178   |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 0.0   | 0.0   | 87.0  |
| 151      | 97.2  | 0.0   | 177.6 |



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: 0.15 ug/l

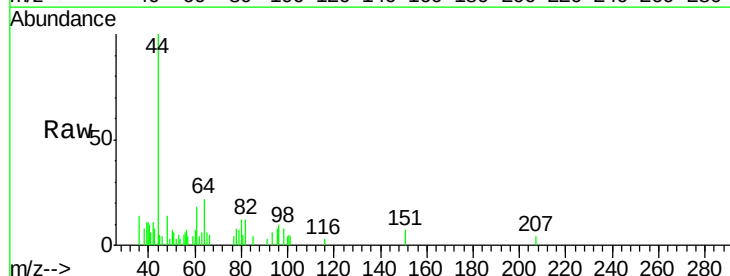
RT: 2.38 min Scan# 294

Delta R.T. 0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

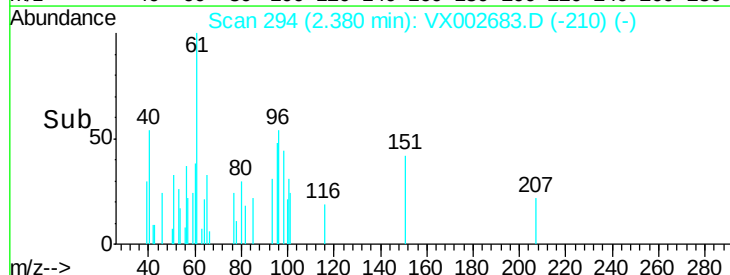
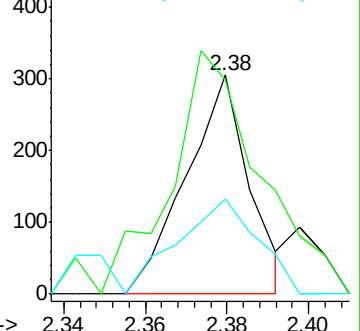
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 330    |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 68.9  | 137.5 | 206.3# |
| 98       | 43.6  | 51.4  | 77.2#  |

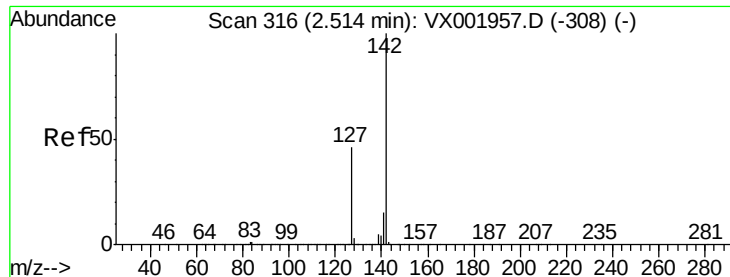


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

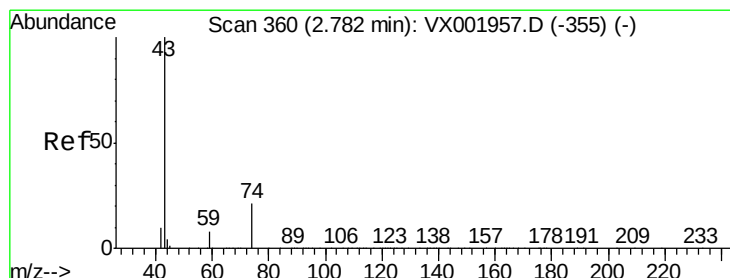
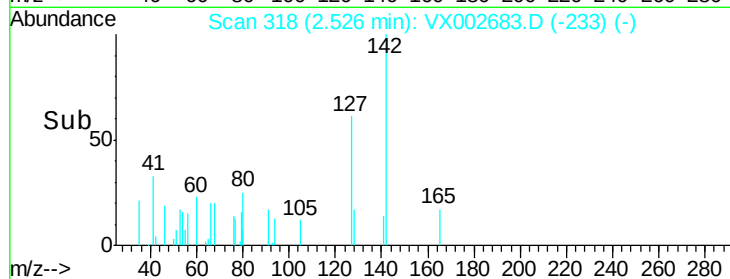
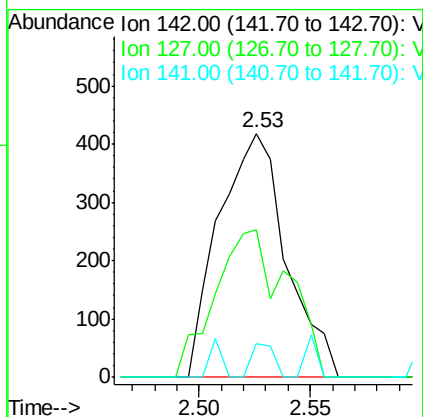
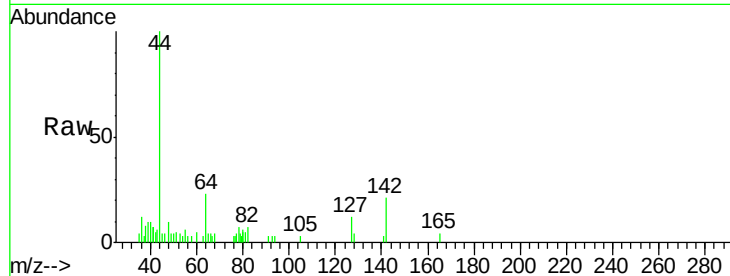




#11  
Methvl Iodide  
Concen: 0.34 ug/l  
RT: 2.53 min Scan# 318  
Delta R.T. 0.02 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

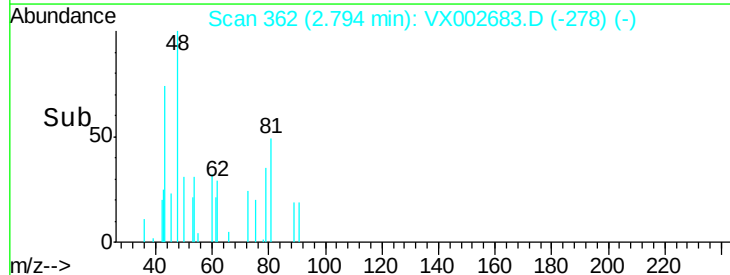
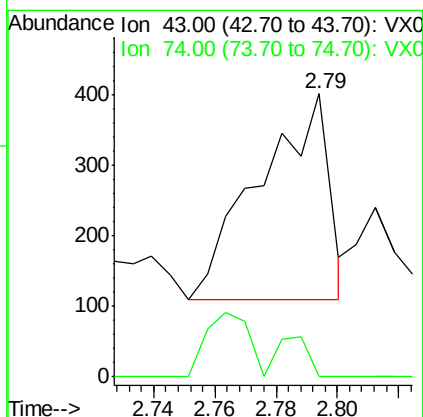
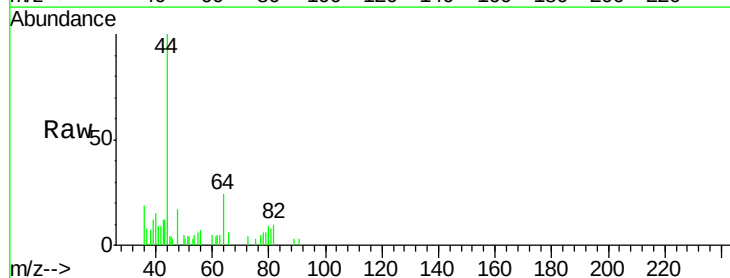
Instrument :  
MSVOA\_X  
ClientSampled :

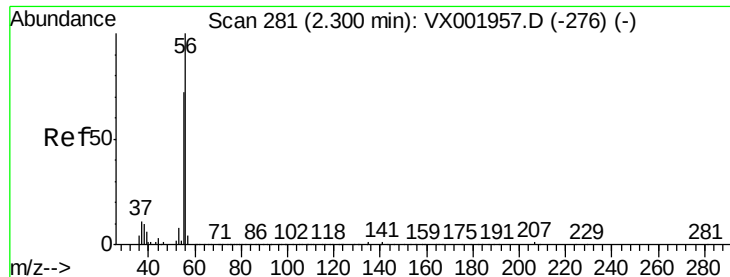
Tot Ion:142 Resp: 883  
Ion Ratio Lower Upper  
142 100  
127 51.8 23.2 69.6  
141 13.9 7.4 22.2



#12  
Methyl Acetate  
Concen: 0.13 ug/l  
RT: 2.79 min Scan# 362  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 43 Resp: 462  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.4 24.6#





#13

Acrolein

Concen: 0.39 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.03 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

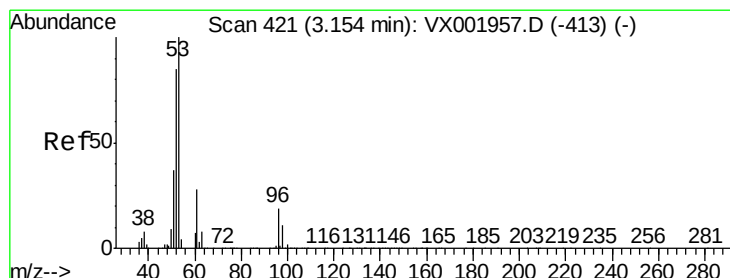
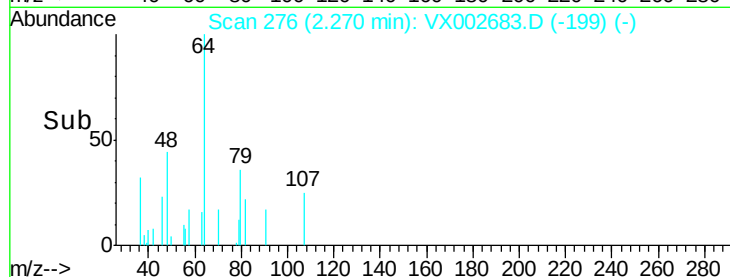
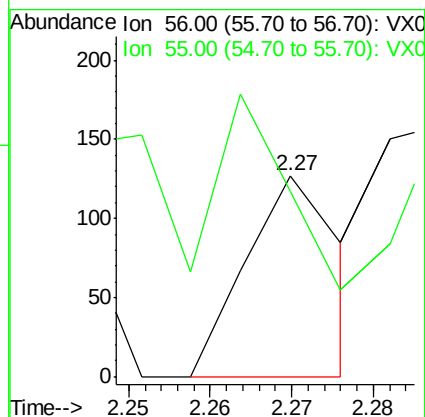
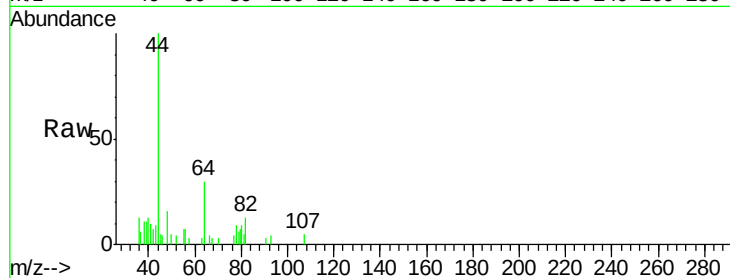
ClientSampled :

Tot Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 66.7 57.3 85.9



#14

Acrylonitrile

Concen: 0.47 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

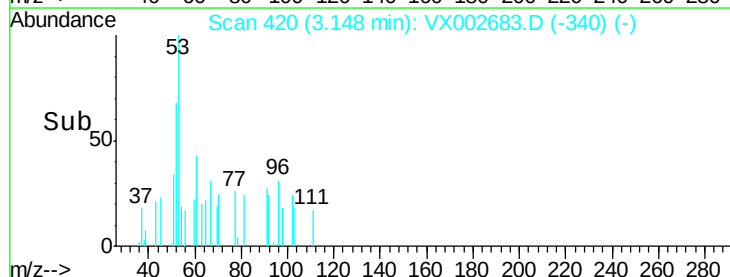
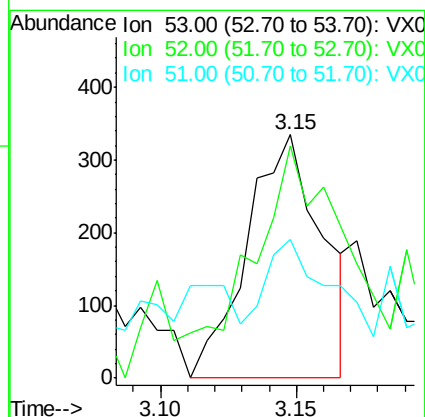
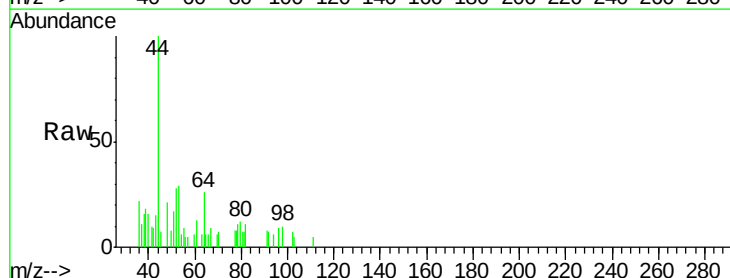
Tgt Ion: 53 Resp: 638

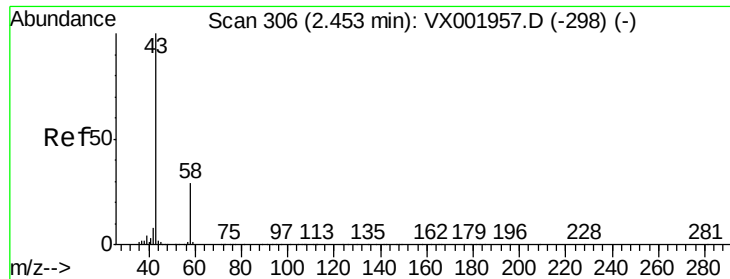
Ion Ratio Lower Upper

53 100

52 74.8 41.5 124.6

51 32.1 17.9 53.8





#15

Acetone

Concen: 0.62 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

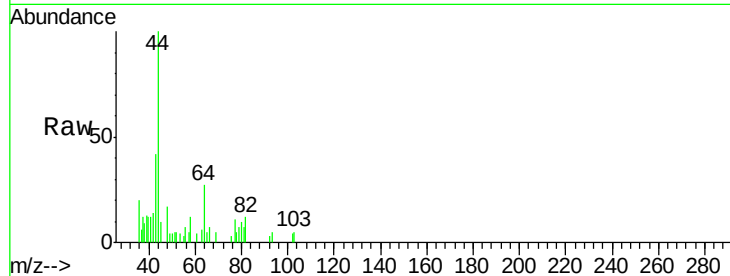
ClientSampleId :

Tot Ion: 58 Resp: 238

Ion Ratio Lower Upper

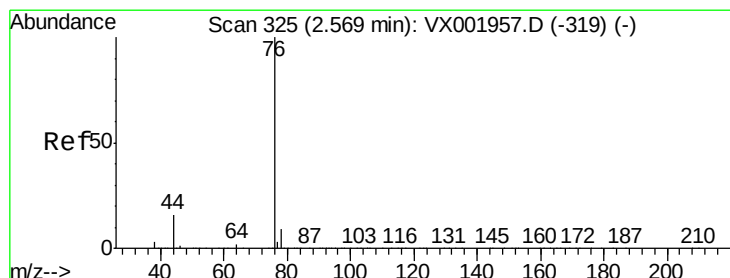
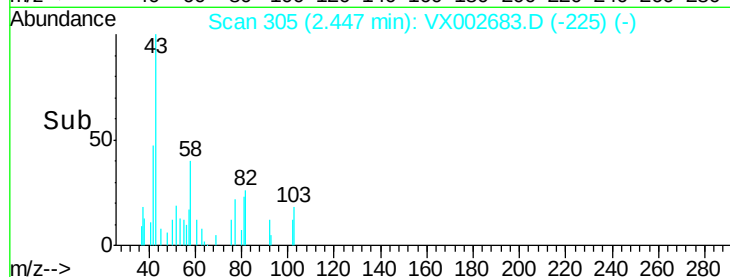
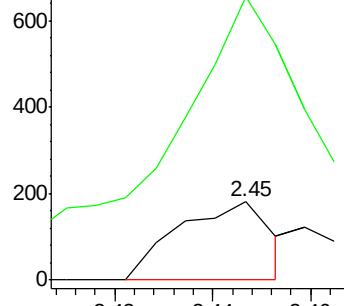
58 100

43 257.2 278.8 418.2#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 0.69 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX002683.D

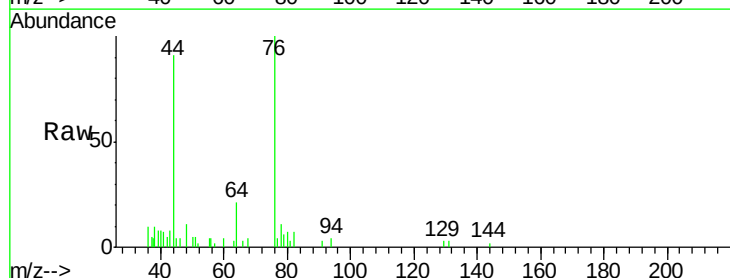
Acq: 18 Jun 2018 16:48

Tgt Ion: 76 Resp: 3899

Ion Ratio Lower Upper

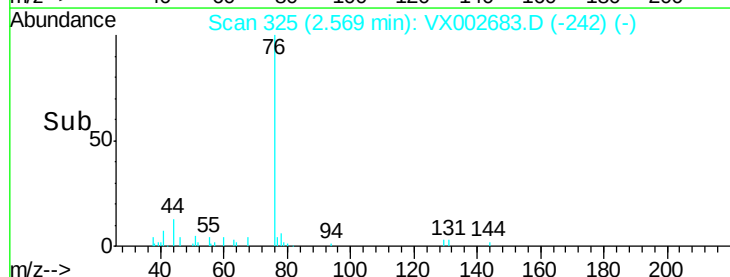
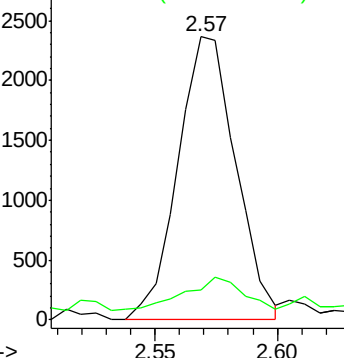
76 100

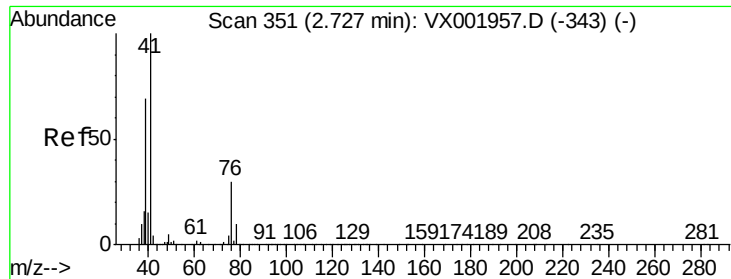
78 6.8 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

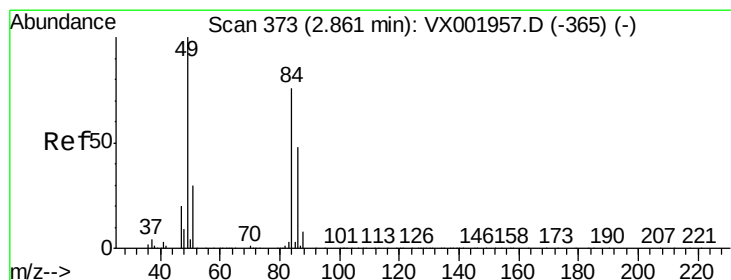
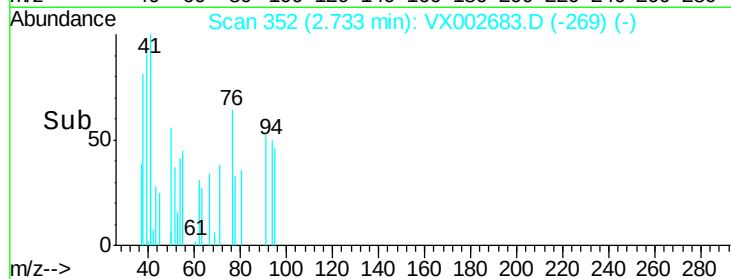
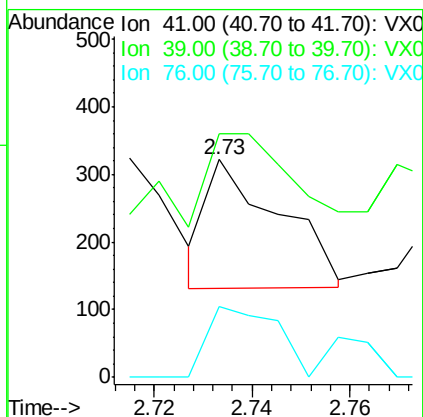
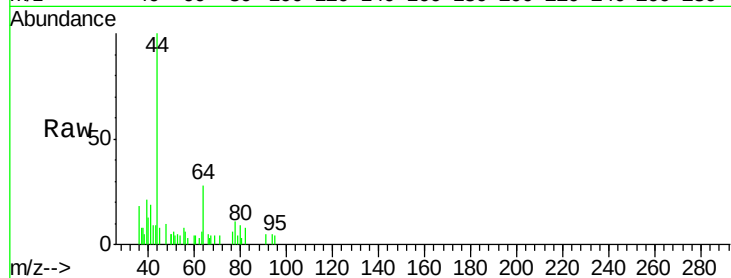




#17  
Allvl chloride  
Concen: 0.04 ug/l  
RT: 2.73 min Scan# 352  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

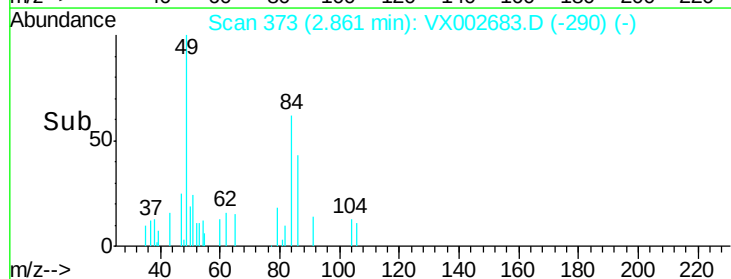
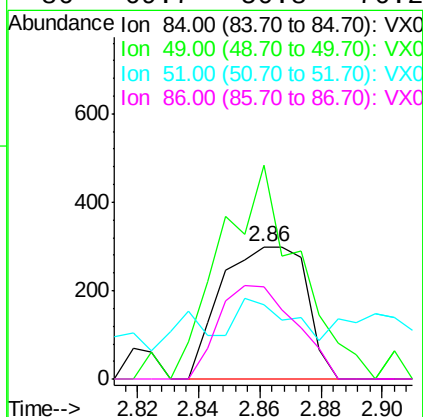
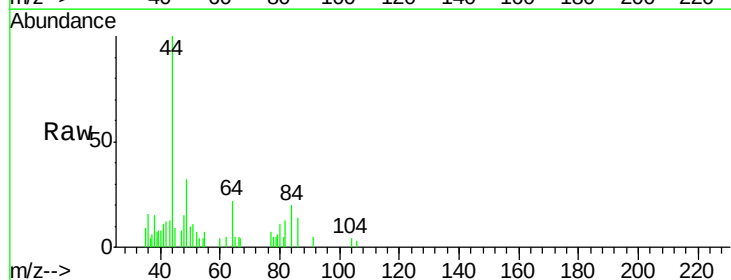
Instrument :  
MSVOA\_X  
ClientSampled :

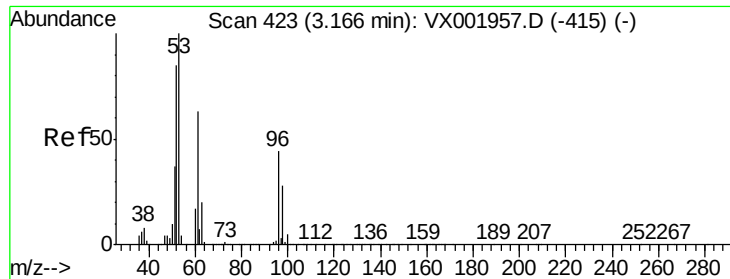
Tot Ion: 41 Resp: 195  
Ion Ratio Lower Upper  
41 100  
39 78.5 34.6 103.8  
76 58.8 15.0 45.1#



#18  
Methylene Chloride  
Concen: 0.23 ug/l  
RT: 2.86 min Scan# 373  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 84 Resp: 580  
Ion Ratio Lower Upper  
84 100  
49 133.0 104.7 157.1  
51 11.0 31.0 46.4#  
86 69.7 50.8 76.2

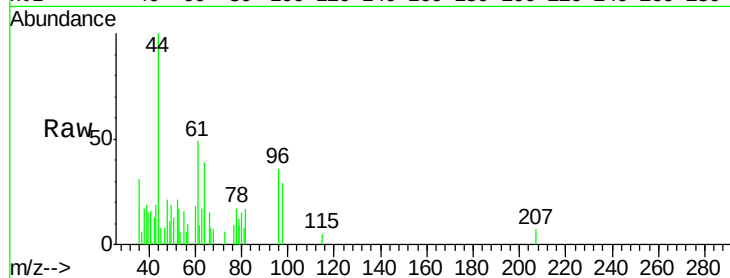




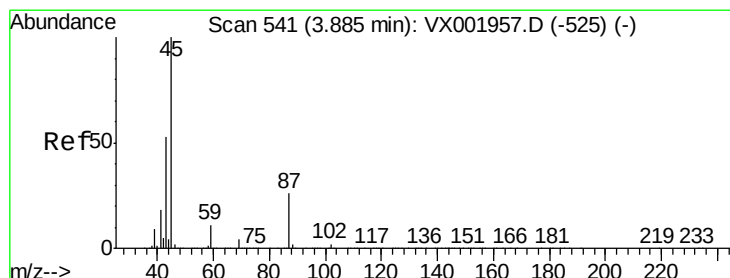
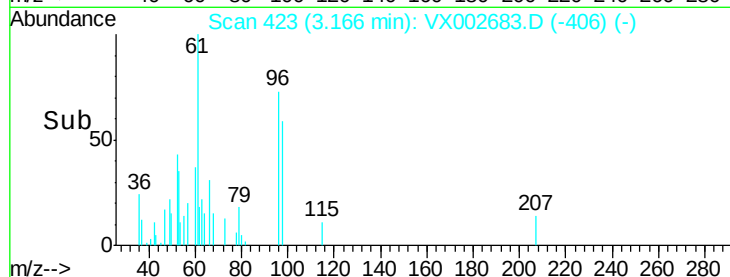
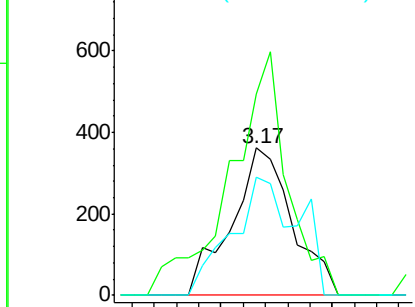
#19  
trans-1,2-Dichloroethene  
Concen: 0.29 ug/l  
RT: 3.17 min Scan# 423  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 96 Resp: 687  
Ion Ratio Lower Upper  
96 100  
61 137.1 114.6 172.0  
98 80.3 51.3 76.9#

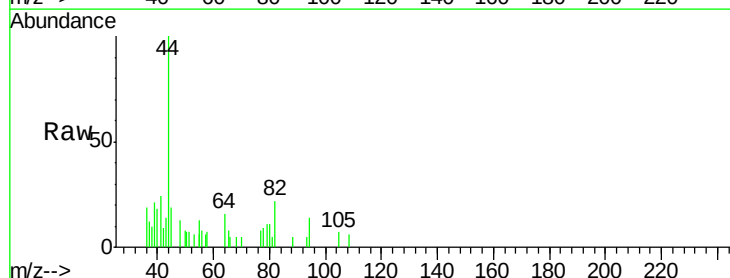


Abundance Ion 96.00 (95.70 to 96.70): VX0  
Ion 61.00 (60.70 to 61.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0

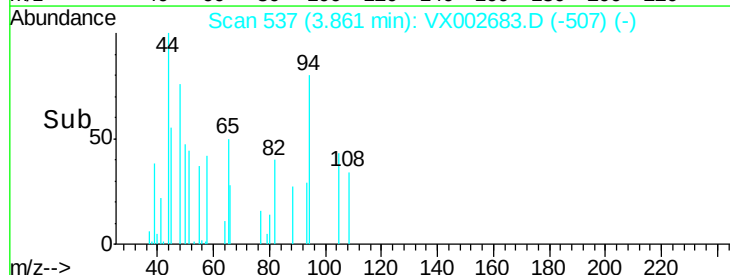
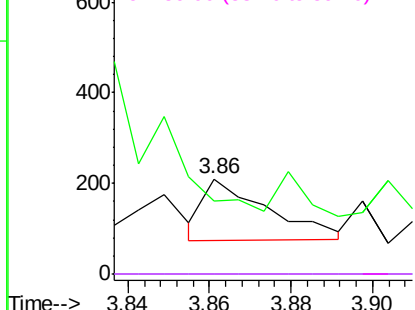


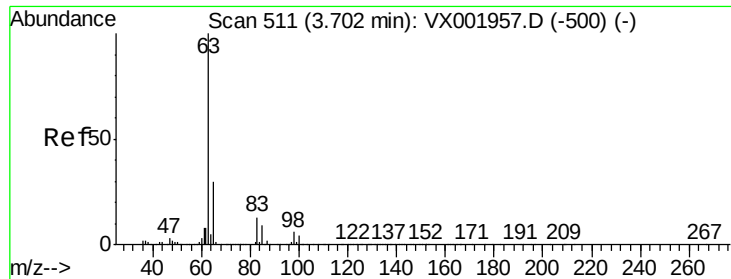
#20  
Diisopropyl ether  
Concen: 0.02 ug/l  
RT: 3.86 min Scan# 537  
Delta R.T. -0.02 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 45 Resp: 148  
Ion Ratio Lower Upper  
45 100  
43 29.1 45.6 68.4#  
87 0.0 20.7 31.1#  
59 0.0 8.9 13.3#



Abundance Ion 45.00 (44.70 to 45.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 87.00 (86.70 to 87.70): VX0  
Ion 59.00 (58.70 to 59.70): VX0





#21

1,1-Dichloroethane

Concen: 0.06 ug/l

RT: 3.71 min Scan# 512

Delta R.T. 0.01 min

Lab File: VX002683.D

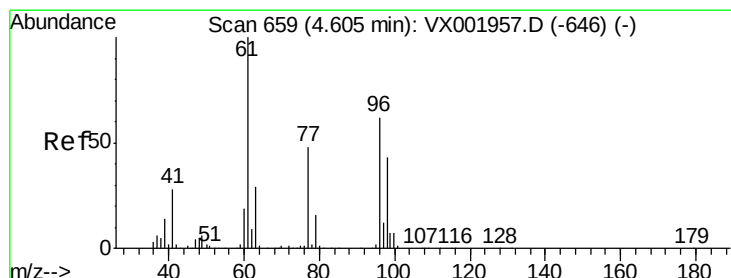
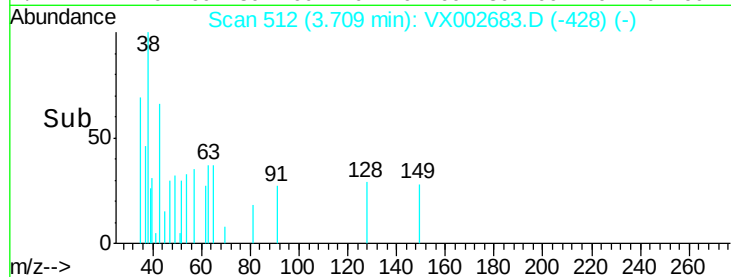
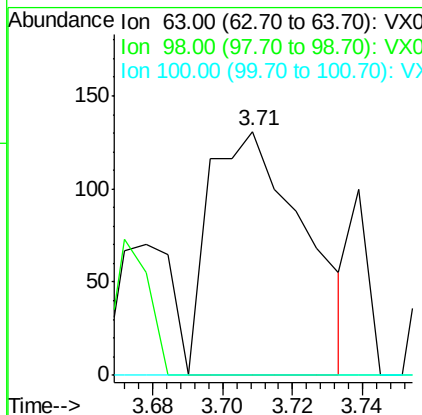
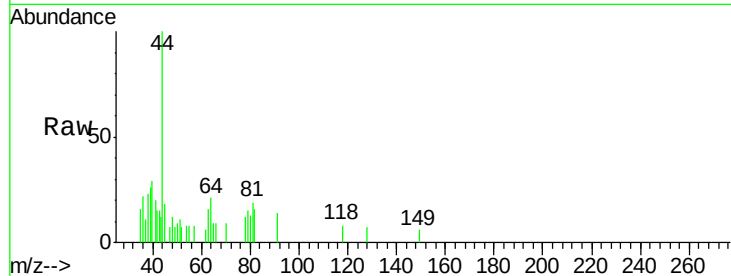
Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

ClientSampled :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 63    | Resp: | 247   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 3.1   | 9.3#  |
| 100      | 0.0   | 2.2   | 6.6#  |



#22

cis-1,2-Dichloroethene

Concen: 0.08 ug/l

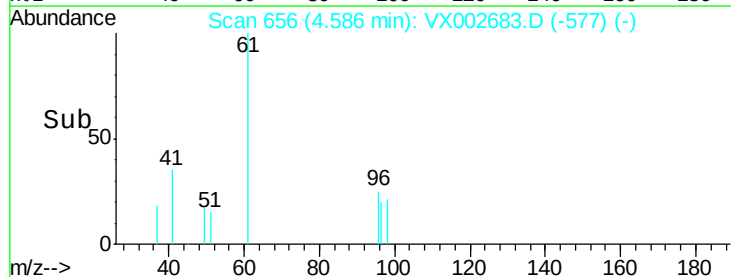
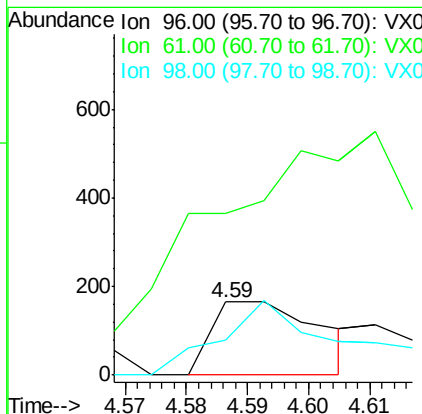
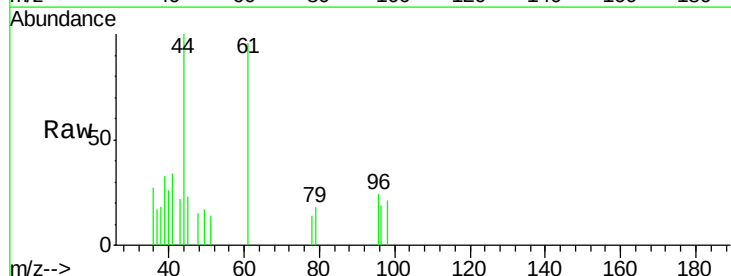
RT: 4.59 min Scan# 656

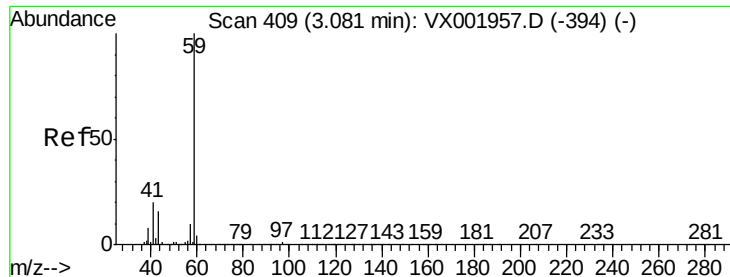
Delta R.T. -0.02 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 203    |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 40.4  | 160.2 | 240.2# |
| 98       | 110.8 | 54.1  | 81.1#  |

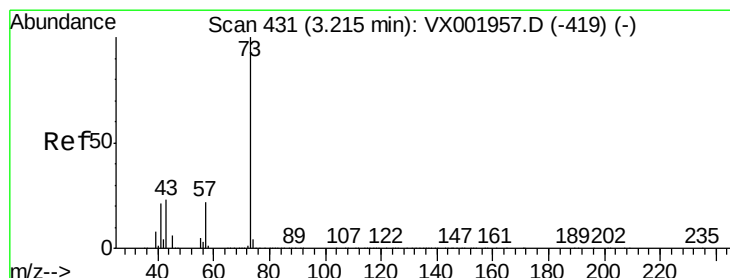
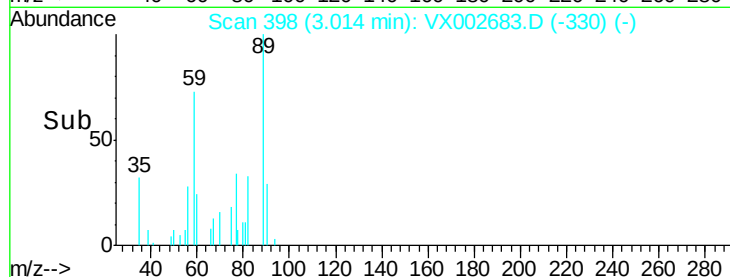
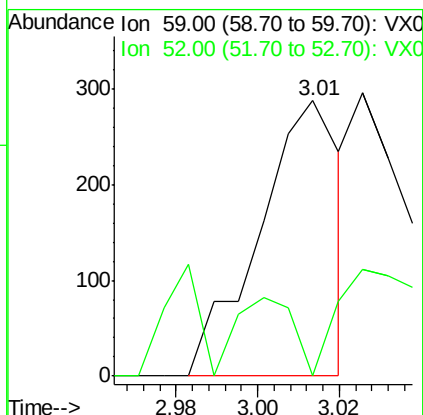
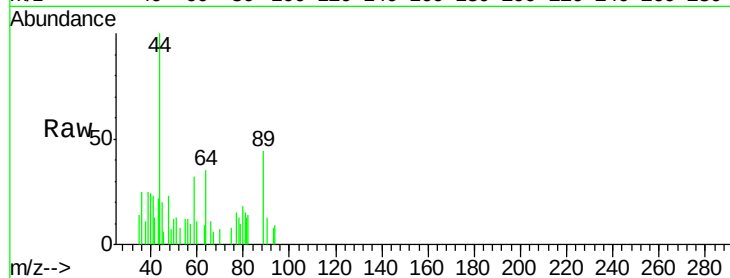




#23  
tert-Butyl Alcohol  
Concen: 0.64 ug/l  
RT: 3.01 min Scan# 398  
Delta R.T. -0.09 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

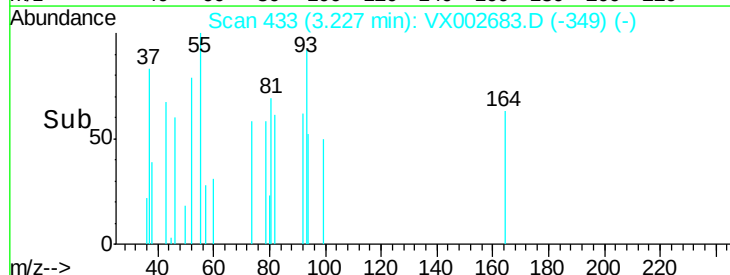
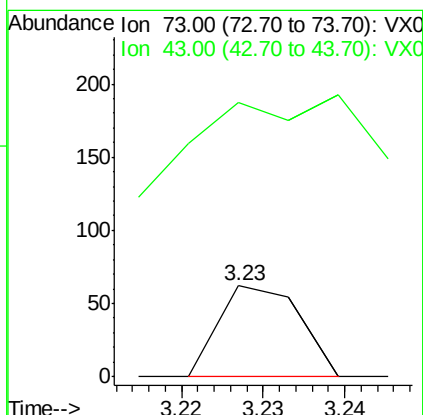
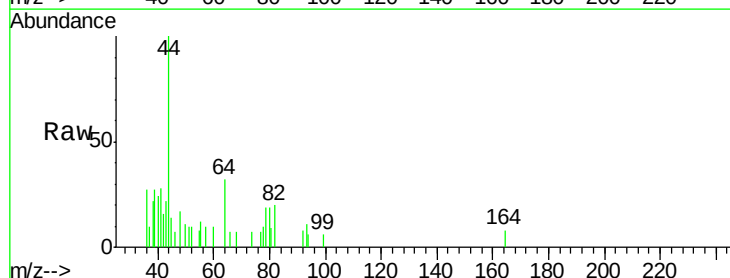
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 59 Resp: 401  
Ion Ratio Lower Upper  
59 100  
52 41.6 0.2 0.2#

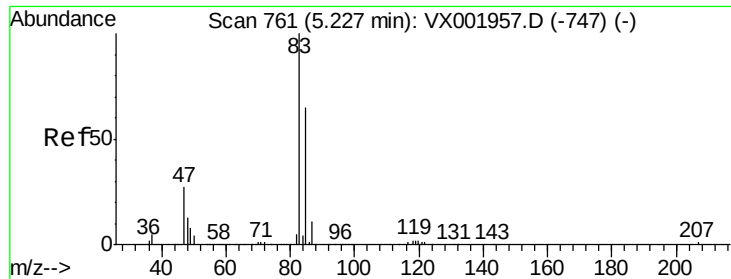


#24  
Methyl tert-Butyl Ether  
Concen: 0.01 ug/l  
RT: 3.23 min Scan# 433  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 73 Resp: 42  
Ion Ratio Lower Upper  
73 100  
43 216.7 19.0 28.4#



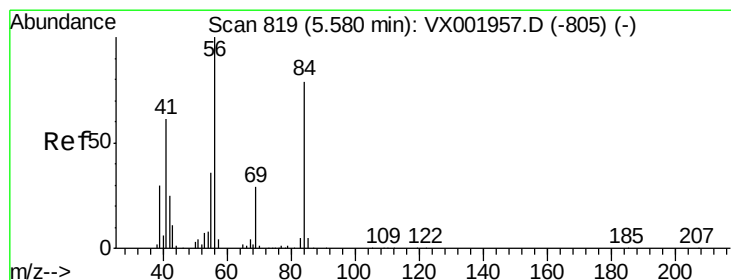
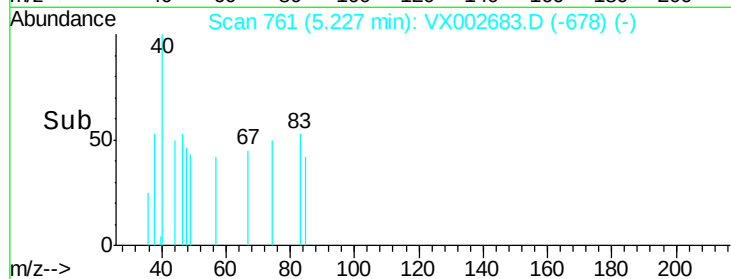
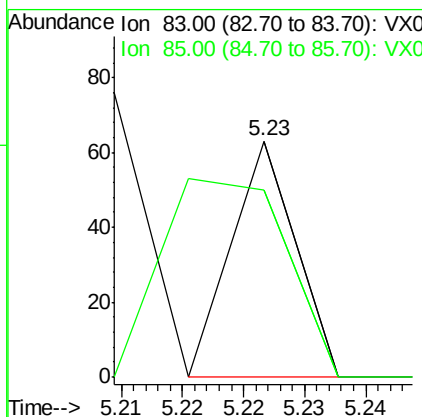
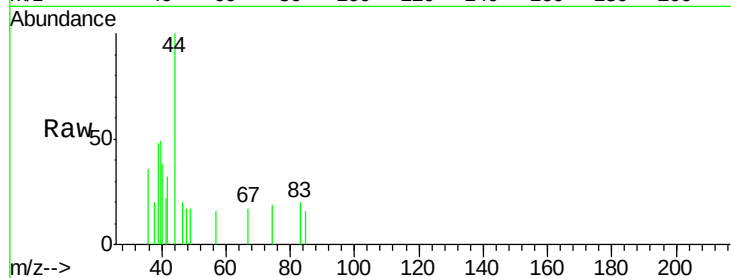




#25  
Chloroform  
Concen: 0.01 ug/l  
RT: 5.23 min Scan# 761  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

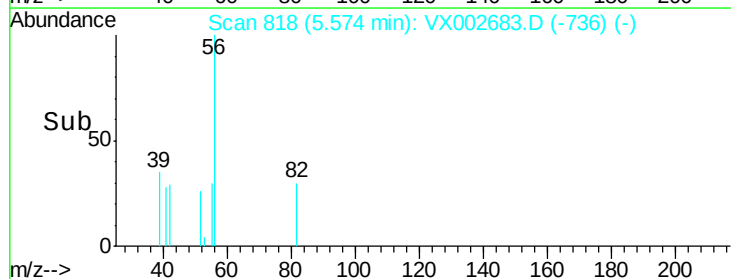
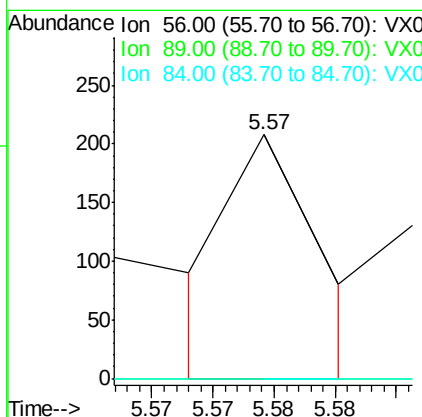
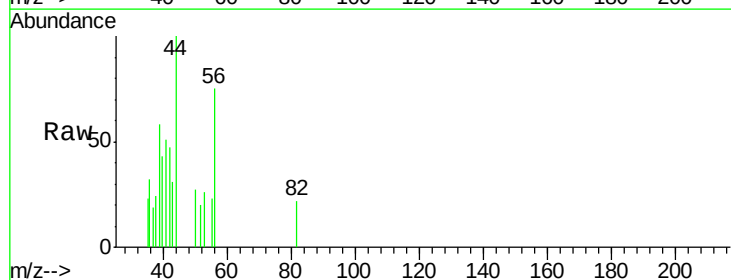
Instrument :  
MSVOA\_X  
ClientSampled :

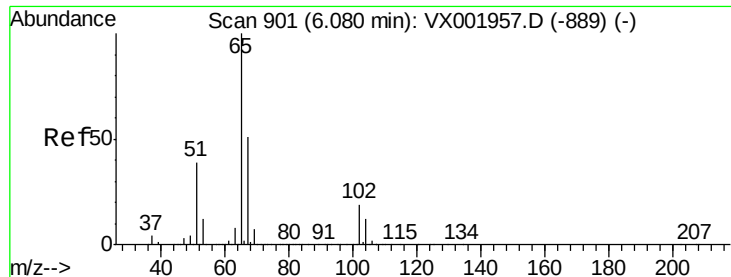
Tot Ion: 83 Resp: 23  
Ion Ratio Lower Upper  
83 100  
85 79.4 51.9 77.9#



#26  
Cyclohexane  
Concen: 0.03 ug/l  
RT: 5.57 min Scan# 818  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 56 Resp: 105  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.1 0.1#  
84 0.0 64.9 97.3#





#27

1,2-Dichloroethane-d4

Concen: 29.69 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

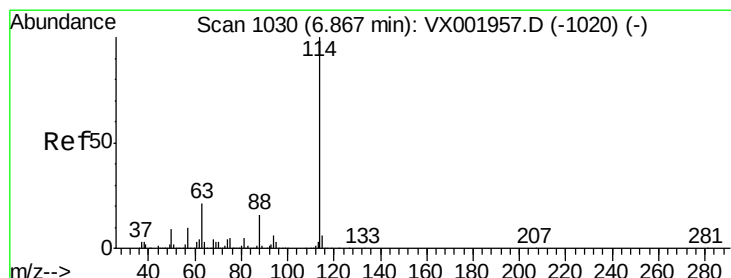
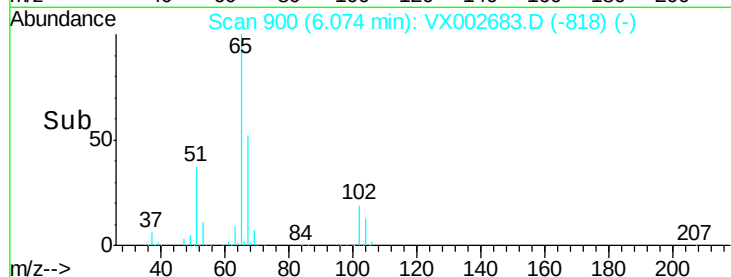
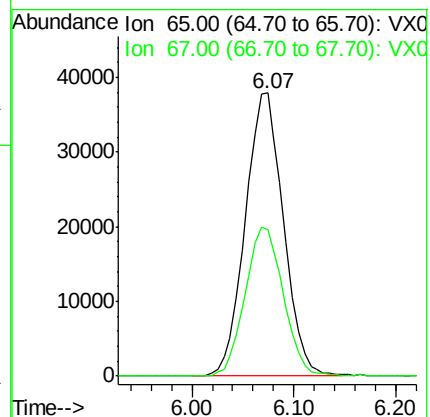
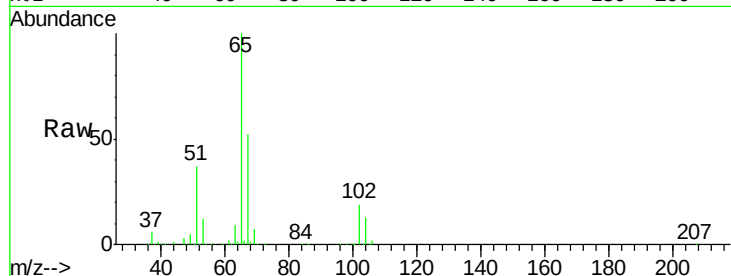
ClientSampleId :

Tot Ion: 65 Resp: 98454

Ion Ratio Lower Upper

65 100

67 52.9 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: VX002683.D

Acq: 18 Jun 2018 16:48

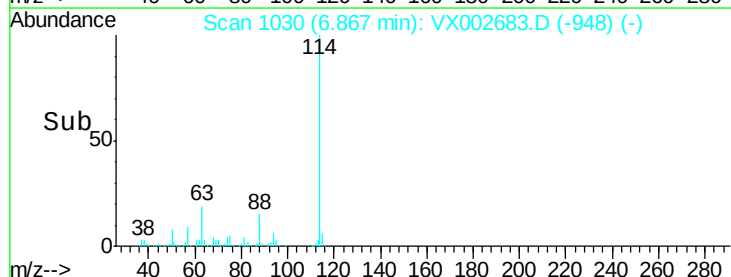
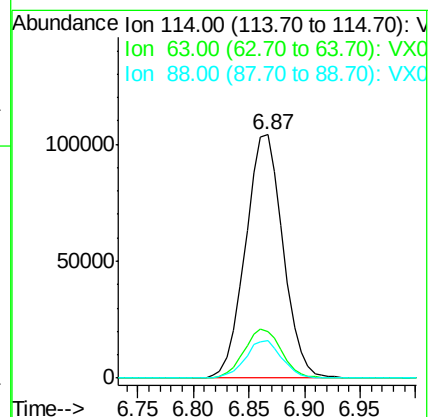
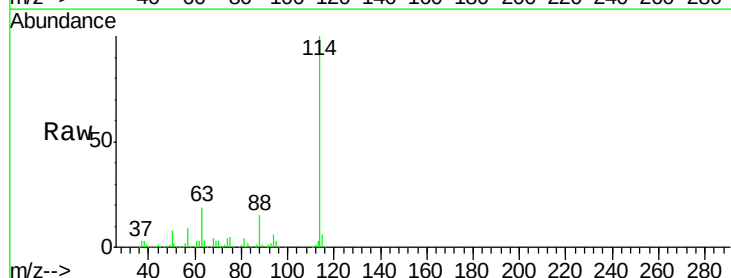
Tgt Ion: 114 Resp: 244664

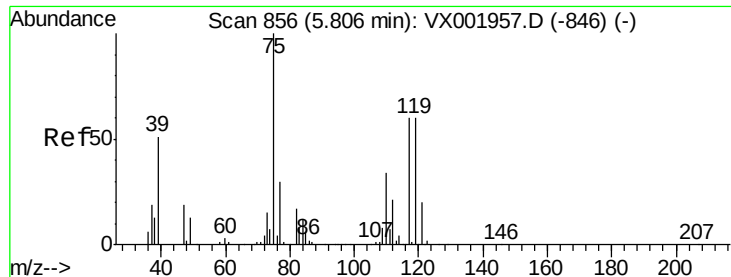
Ion Ratio Lower Upper

114 100

63 20.1 17.1 25.7

88 15.1 12.6 19.0

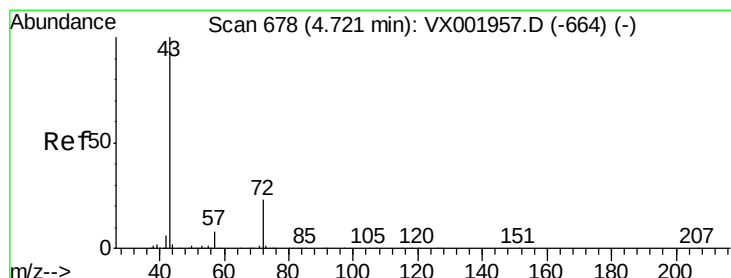
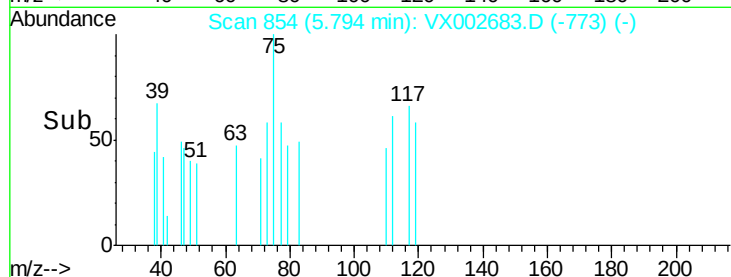
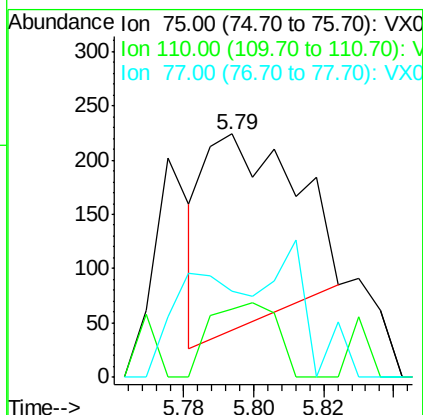
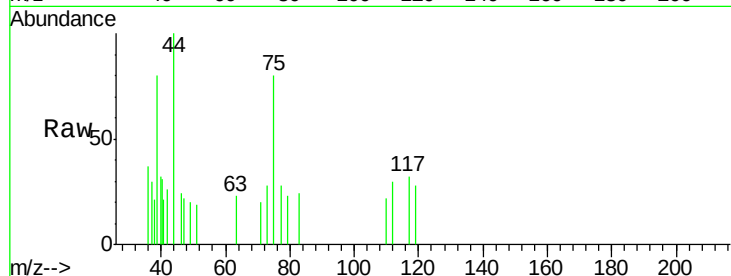




#29  
 1,1-Dichloropropene  
 Concen: 0.10 ug/l  
 RT: 5.79 min Scan# 854  
 Delta R.T. -0.01 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

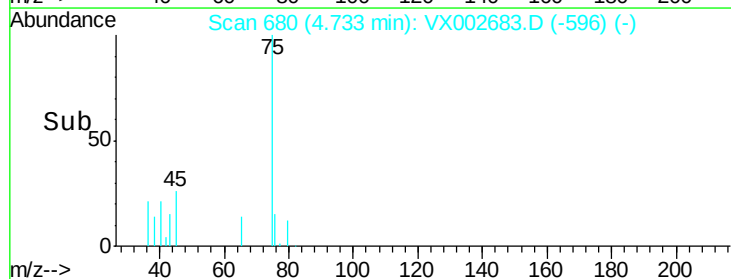
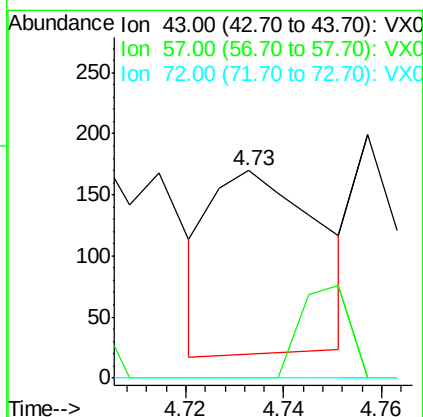
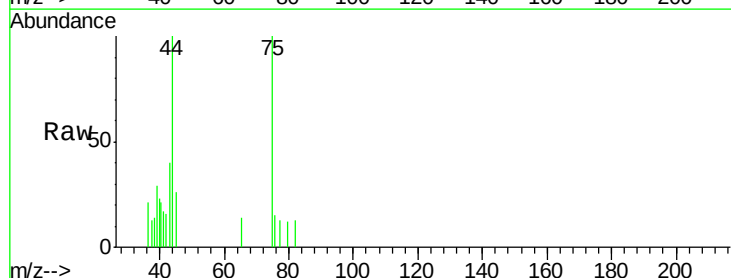
Instrument :  
 MSVOA\_X  
 ClientSampled :

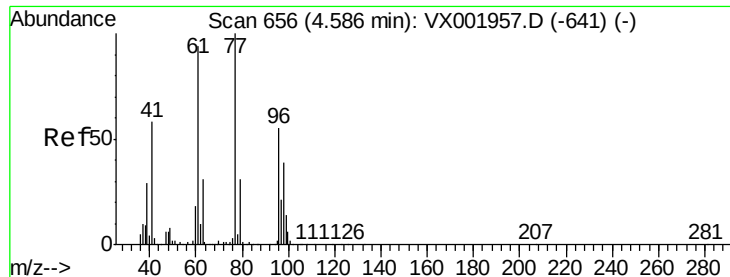
Tot Ion: 75 Resp: 321  
 Ion Ratio Lower Upper  
 75 100  
 110 28.3 0.0 71.4  
 77 24.6 0.0 60.6



#30  
 2-Butanone  
 Concen: 0.12 ug/l  
 RT: 4.73 min Scan# 680  
 Delta R.T. 0.01 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Tgt Ion: 43 Resp: 229  
 Ion Ratio Lower Upper  
 43 100  
 57 0.0 6.1 9.1#  
 72 0.0 18.1 27.1#





#31

2,2-Dichloropropane

Concen: 0.02 ug/l

RT: 4.57 min Scan# 653

Delta R.T. -0.02 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

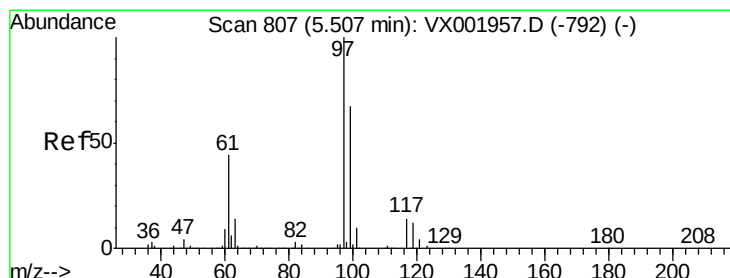
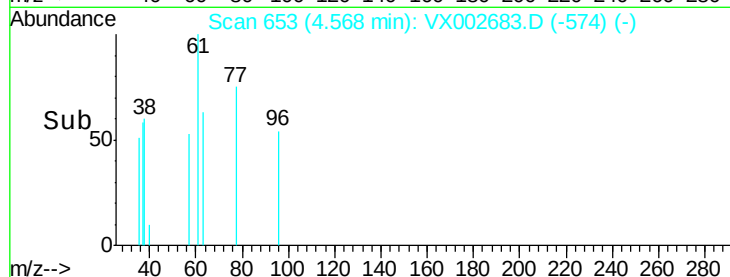
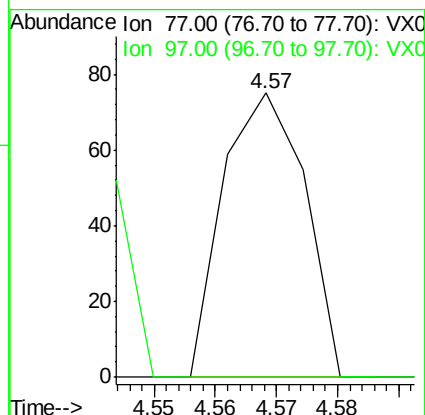
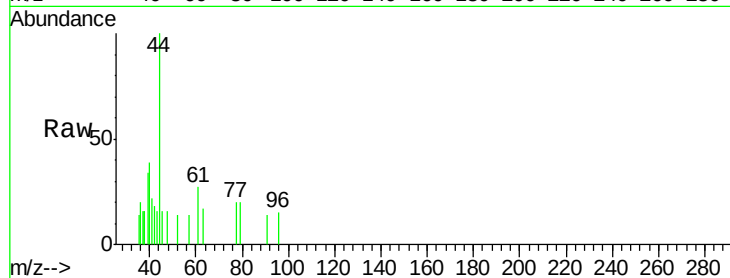
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 77 Resp: 69

Ion Ratio Lower Upper

77 100

97 0.0 18.7 28.1#



#32

1,1,1-Trichloroethane

Concen: 0.02 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

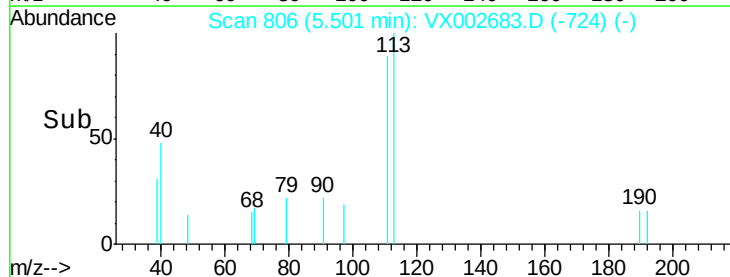
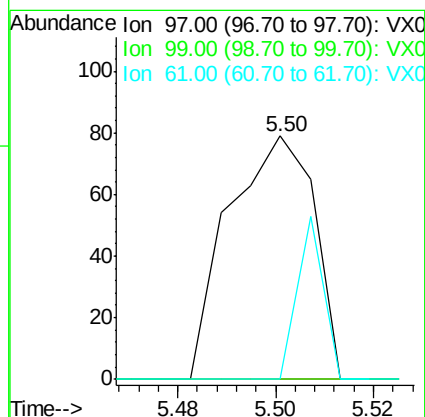
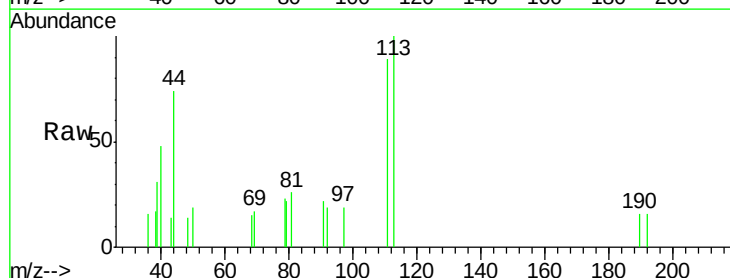
Tgt Ion: 97 Resp: 95

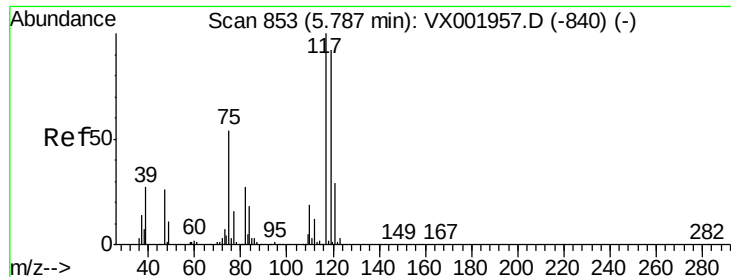
Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

61 46.3 36.4 54.6





#33

Carbon Tetrachloride

Concen: 0.01 ug/l

RT: 5.78 min Scan# 852

Delta R.T. -0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

ClientSampled :

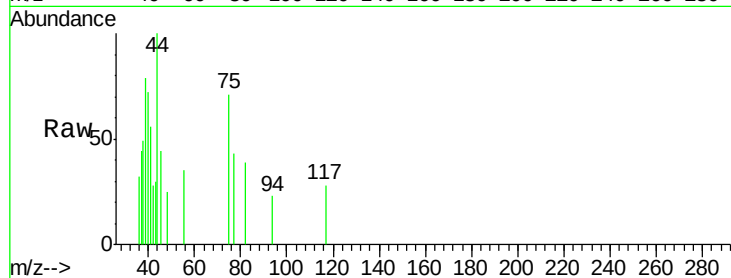
Tot Ion:117 Resp: 23

Ion Ratio Lower Upper

117 100

119 0.0 73.3 109.9#

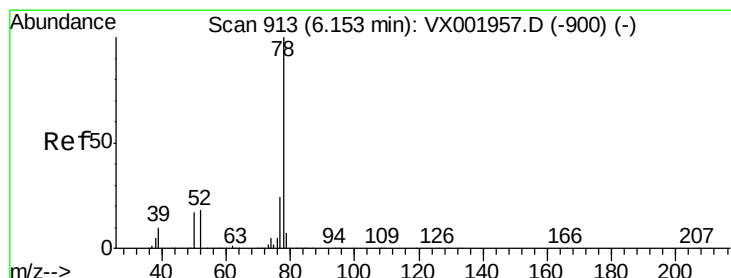
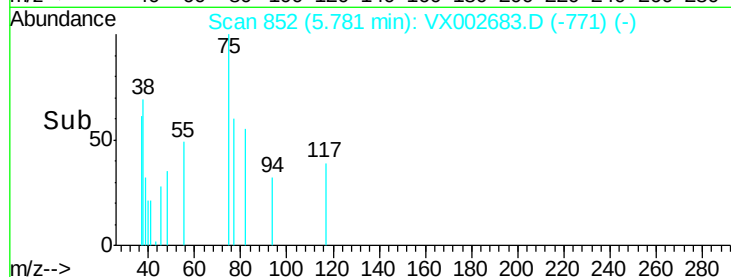
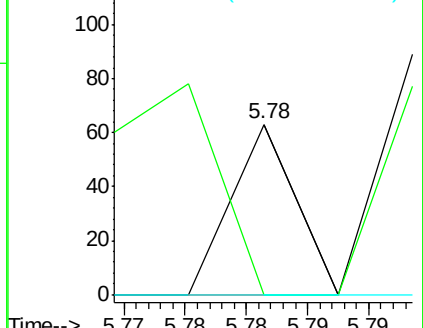
121 0.0 23.6 35.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 0.03 ug/l

RT: 6.14 min Scan# 911

Delta R.T. -0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

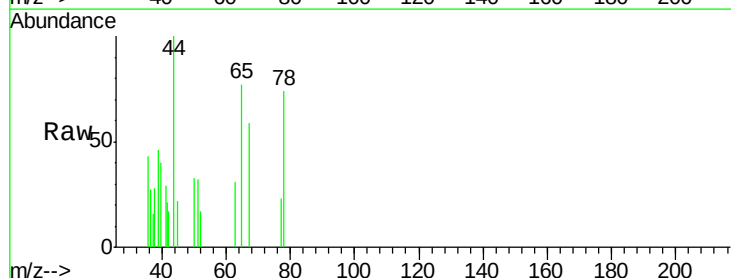
Tgt Ion: 78 Resp: 329

Ion Ratio Lower Upper

78 100

77 31.1 19.4 29.0#

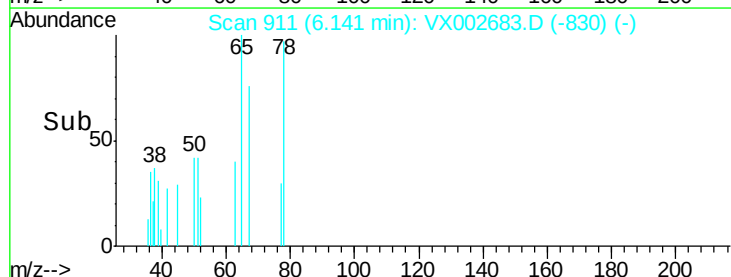
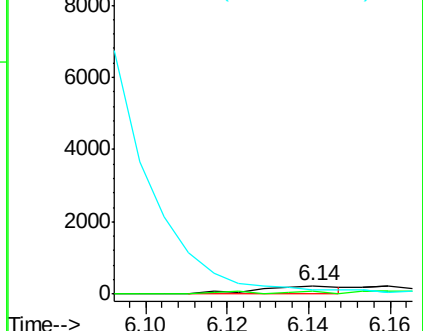
51 0.0 13.8 20.6#

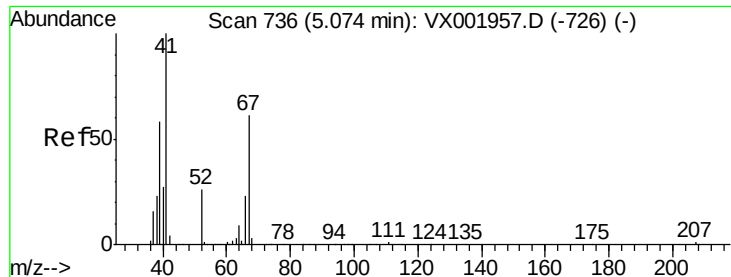


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

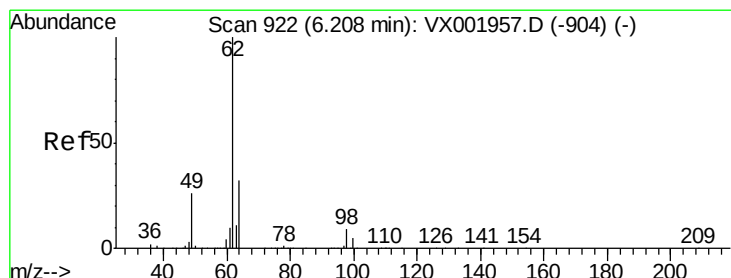
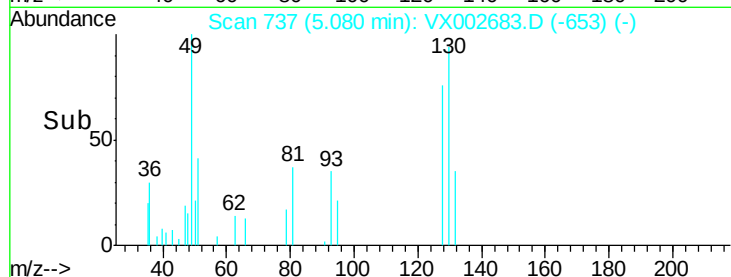
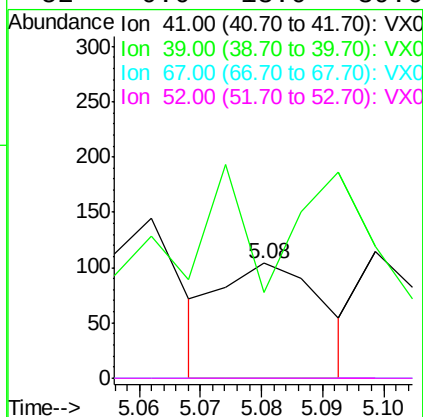
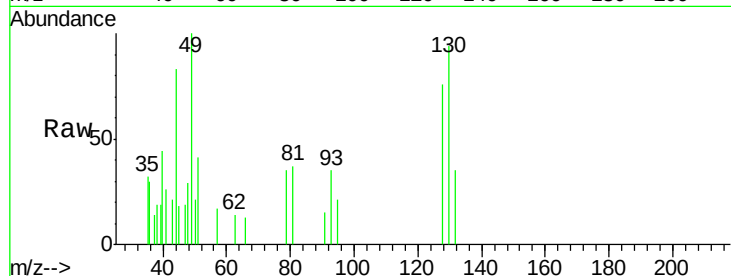




#35  
Methacrylonitrile  
Concen: 0.06 ug/l  
RT: 5.08 min Scan# 737  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

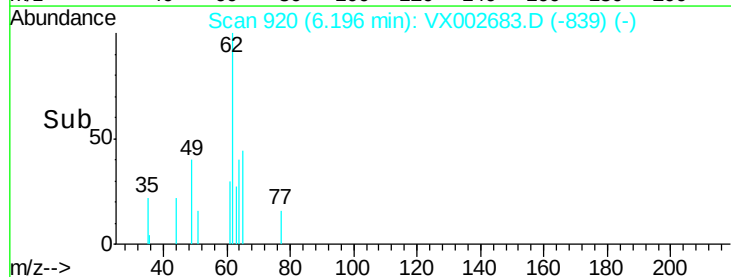
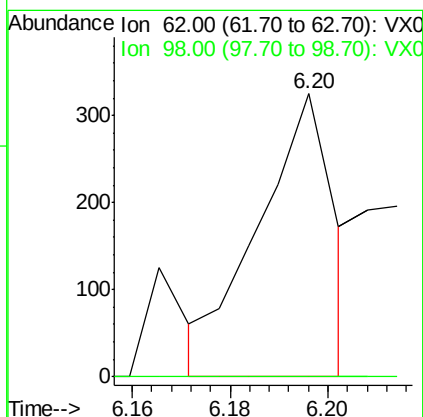
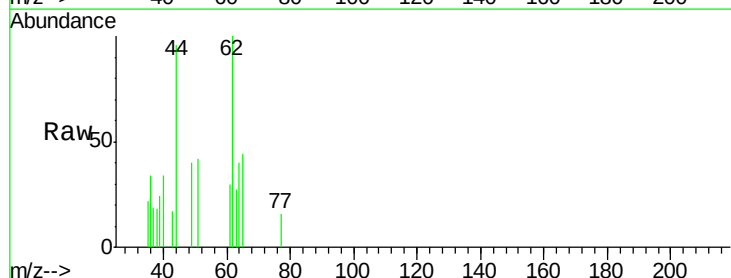
Instrument :  
MSVOA\_X  
ClientSampled :

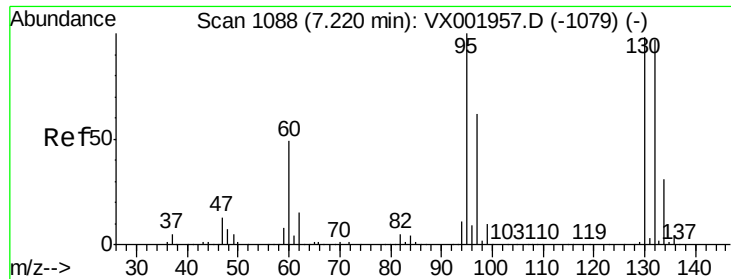
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 121   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 28.8  | 86.5# |
| 67       | 0.0   | 30.4  | 91.2# |
| 52       | 0.0   | 13.0  | 39.0# |



#36  
1,2-Dichloroethane  
Concen: 0.09 ug/l  
RT: 6.20 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 347   |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 0.0   | 6.5   | 9.7#  |

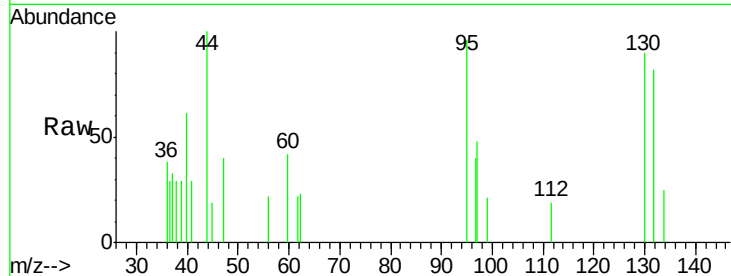




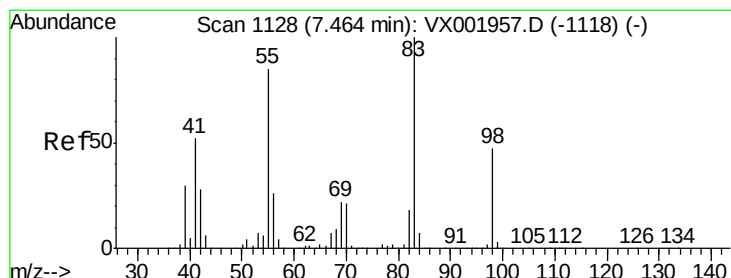
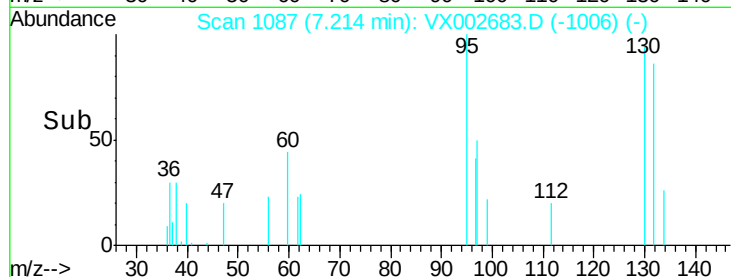
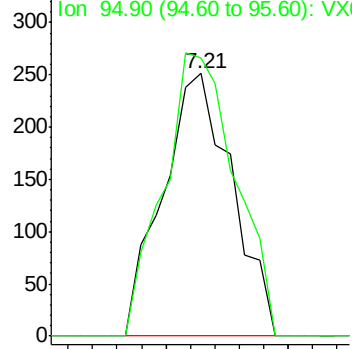
#37  
 Trichloroethene  
 Concen: 0.17 ug/l  
 RT: 7.21 min Scan# 1087  
 Delta R.T. -0.01 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:130 Resp: 496  
 Ion Ratio Lower Upper  
 130 100  
 95 106.0 81.5 122.3

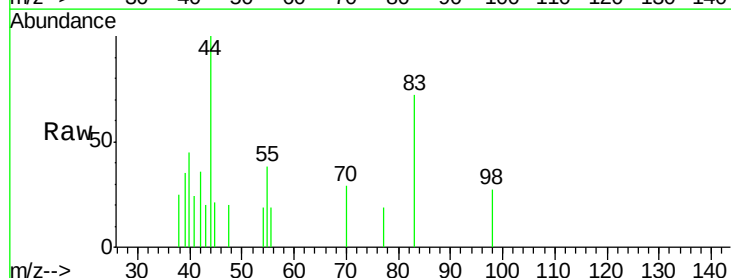


Abundance Ion 129.90 (129.60 to 130.60): V  
 Ion 94.90 (94.60 to 95.60): VX0

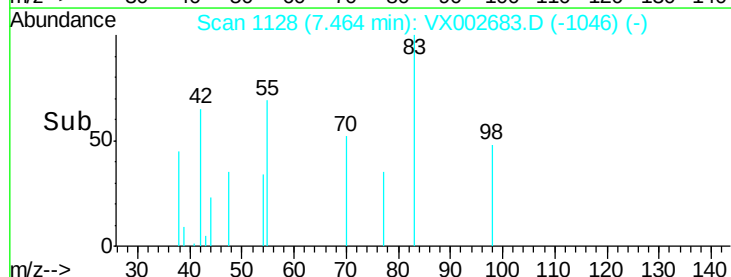
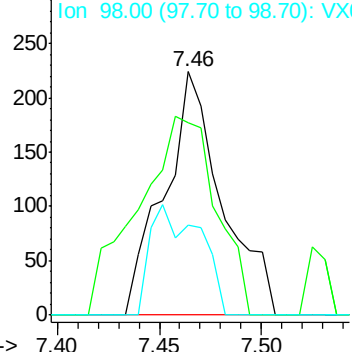


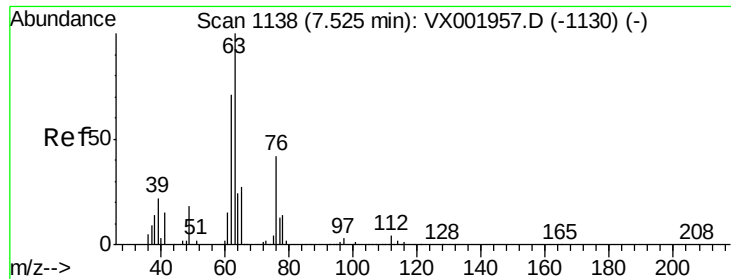
#38  
 Methylcyclohexane  
 Concen: 0.11 ug/l  
 RT: 7.46 min Scan# 1128  
 Delta R.T. 0.00 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Tgt Ion: 83 Resp: 443  
 Ion Ratio Lower Upper  
 83 100  
 55 9.5 40.6 121.8#  
 98 18.1 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

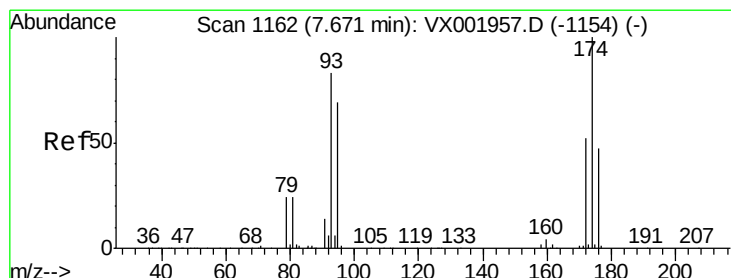
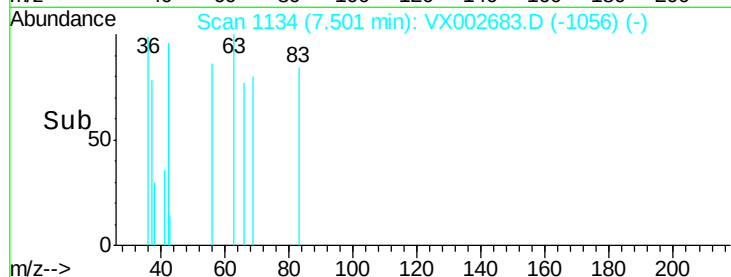
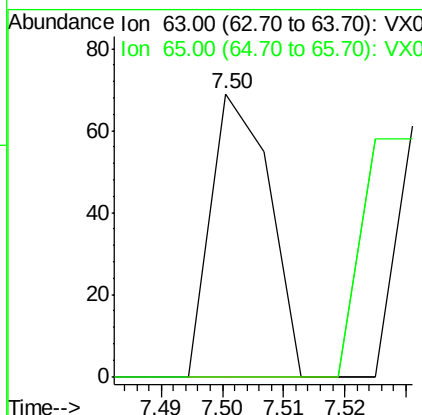
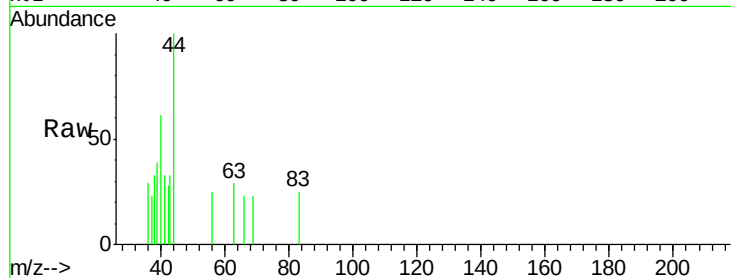




#39  
 1,2-Dichloropropane  
 Concen: 0.02 ug/l  
 RT: 7.50 min Scan# 1134  
 Delta R.T. -0.02 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

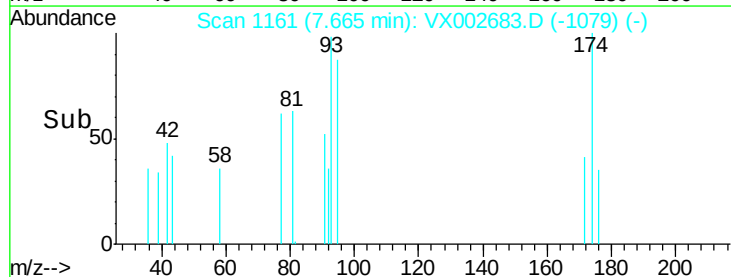
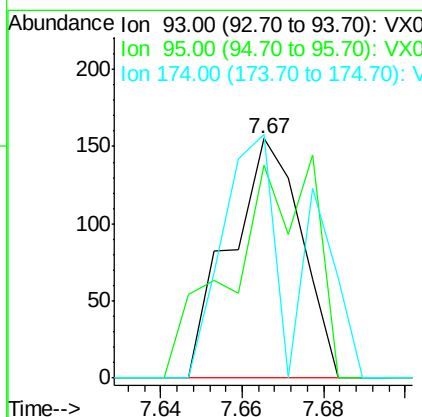
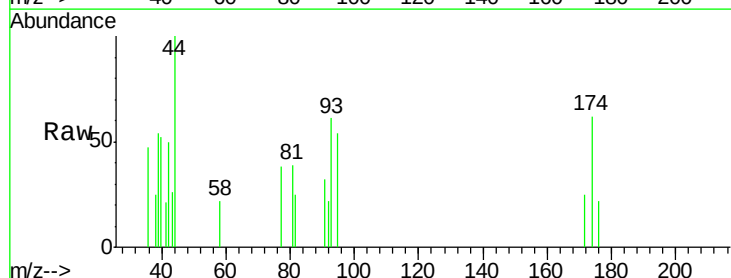
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 63 Resp: 45  
 Ion Ratio Lower Upper  
 63 100  
 65 0.0 23.3 34.9#

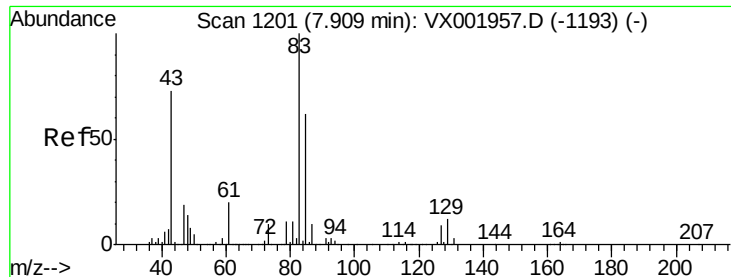


#40  
 Dibromomethane  
 Concen: 0.11 ug/l  
 RT: 7.67 min Scan# 1161  
 Delta R.T. 0.00 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Tgt Ion: 93 Resp: 188  
 Ion Ratio Lower Upper  
 93 100  
 95 33.5 0.0 162.6  
 174 71.8 0.0 229.4







#41

Bromodichloromethane

Concen: 0.03 ug/l

RT: 7.90 min Scan# 1199

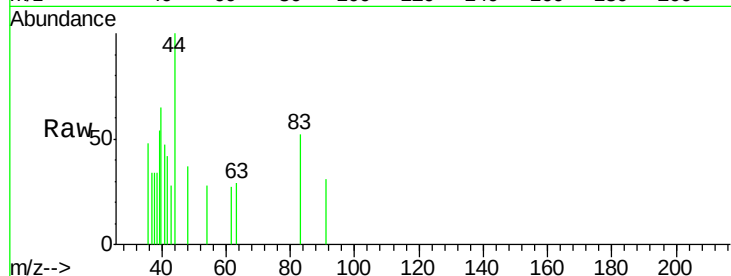
Delta R.T. -0.01 min

Lab File: VX002683.D

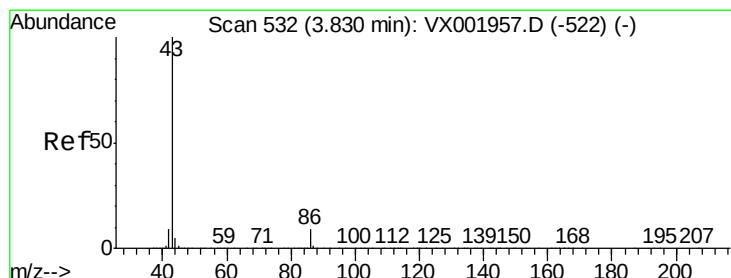
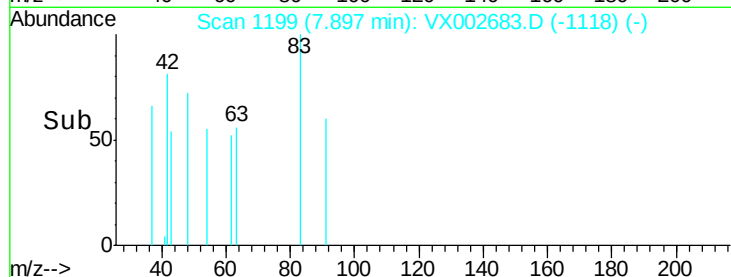
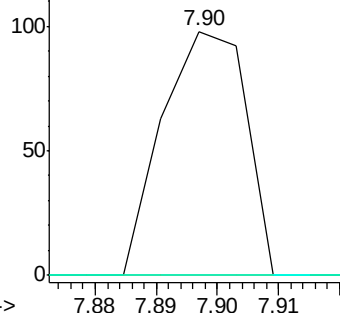
Acq: 18 Jun 2018 16:48

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 83    | Resp: | 93    |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 0.0   | 49.8  | 74.8# |
| 127      | 0.0   | 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: 0.02 ug/l

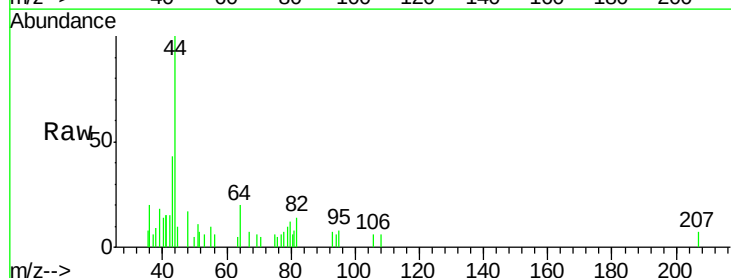
RT: 3.84 min Scan# 533

Delta R.T. 0.01 min

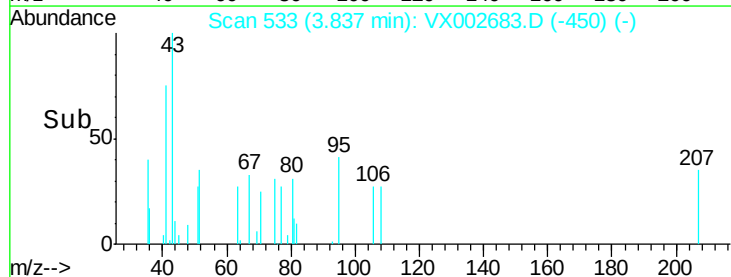
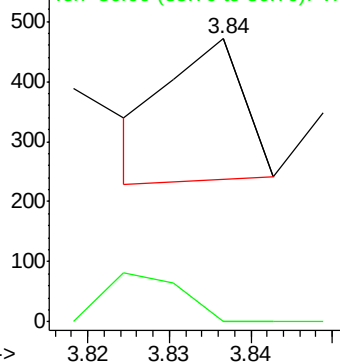
Lab File: VX002683.D

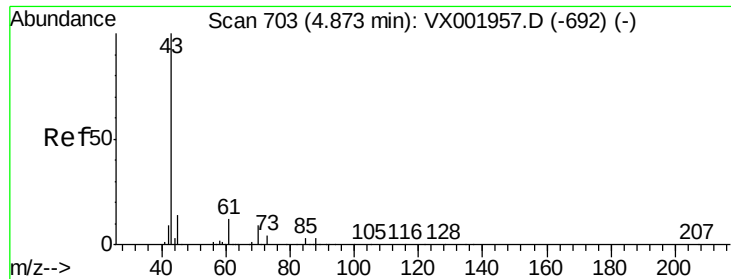
Acq: 18 Jun 2018 16:48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 151   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 6.7   | 10.1# |



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 86.00 (85.70 to 86.70): VX0

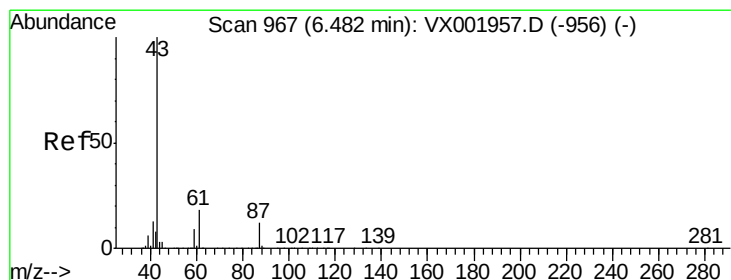
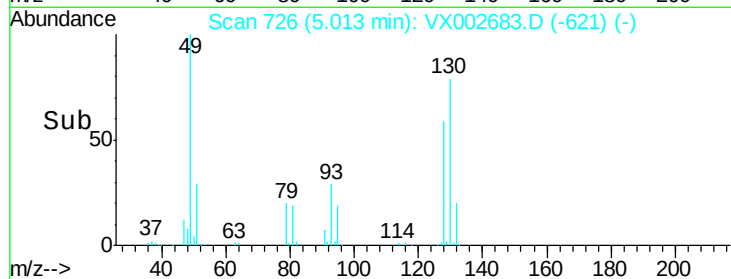
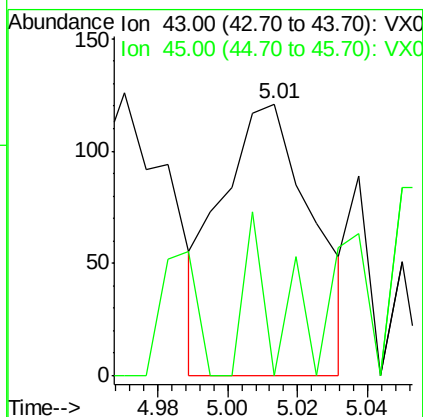
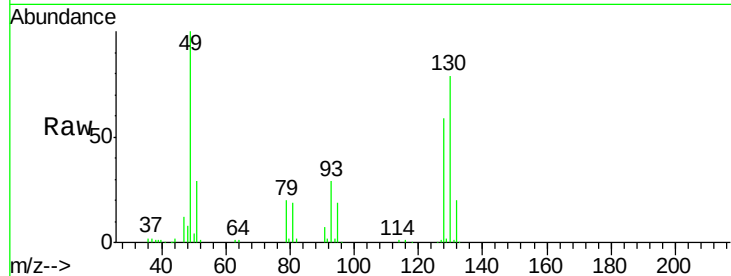




#43  
Ethyl Acetate  
Concen: 0.06 ug/l  
RT: 5.01 min Scan# 726  
Delta R.T. 0.14 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

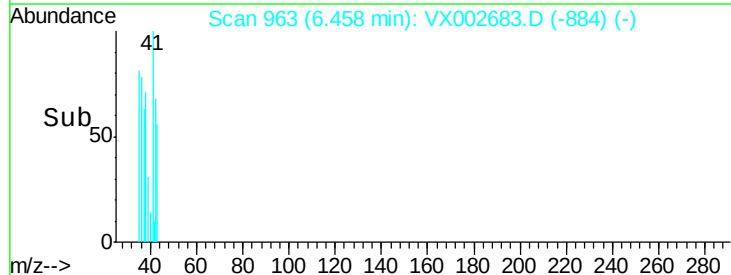
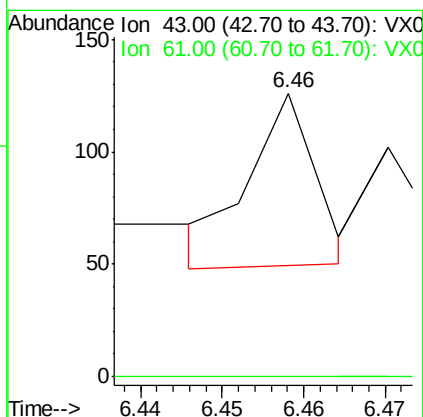
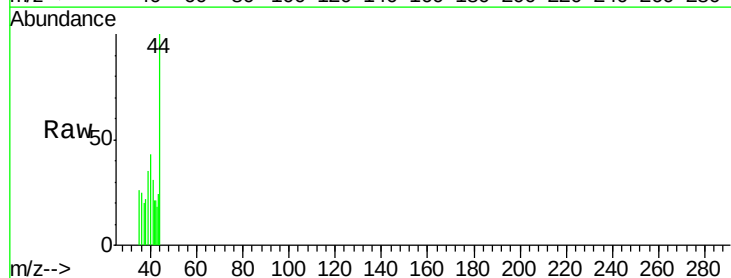
Instrument :  
MSVOA\_X  
ClientSampleId :

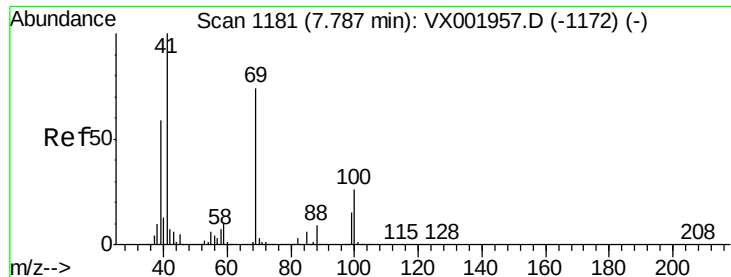
Tot Ion: 43 Resp: 220  
Ion Ratio Lower Upper  
43 100  
45 12.3 11.0 16.4



#44  
Isopropyl Acetate  
Concen: 0.01 ug/l  
RT: 6.46 min Scan# 963  
Delta R.T. -0.02 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 43 Resp: 43  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.5 21.7#

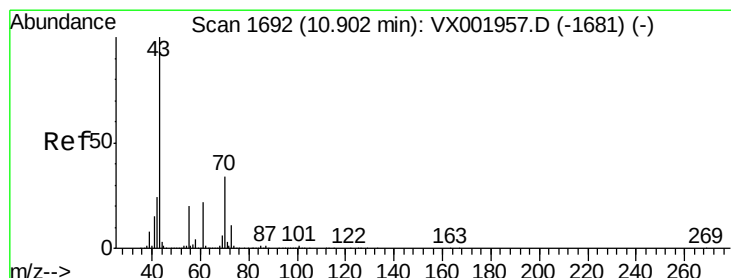
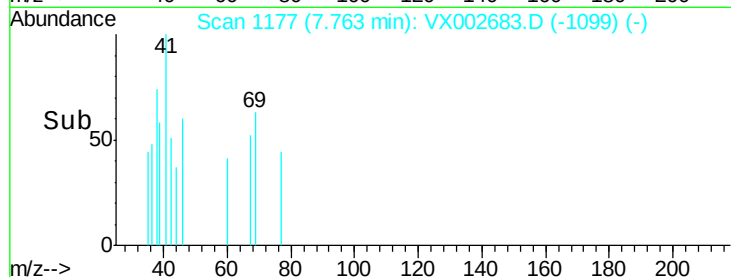
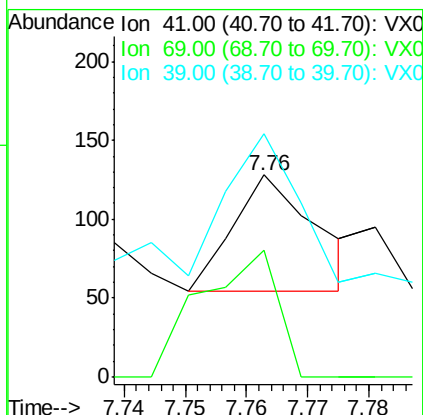
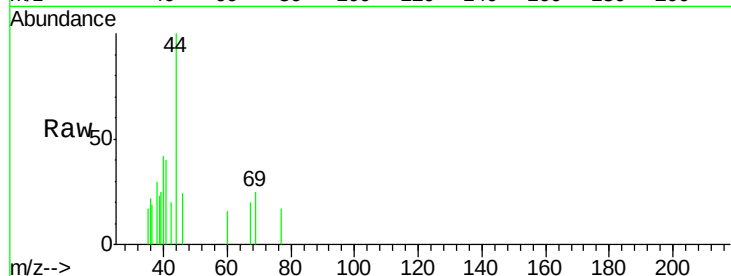




#46  
Methyl methacrylate  
Concen: 0.02 ug/l  
RT: 7.76 min Scan# 1177  
Delta R.T. -0.02 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

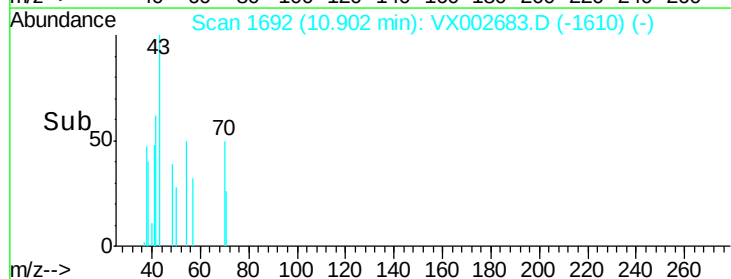
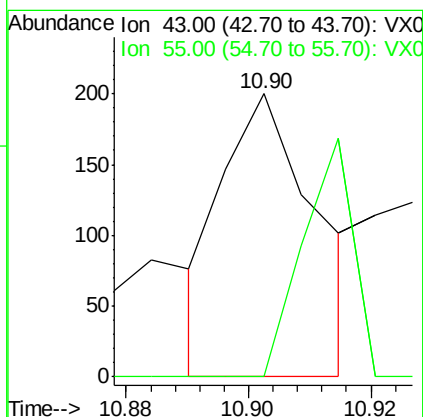
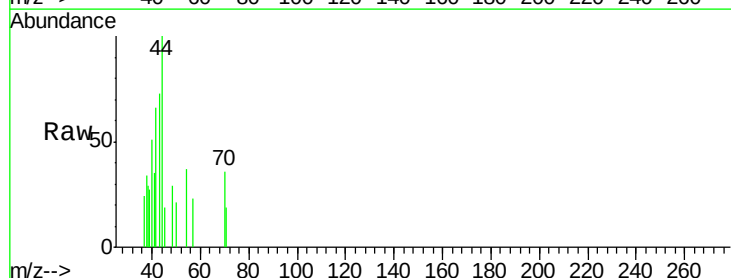
Instrument :  
MSVOA\_X  
ClientSampleId :

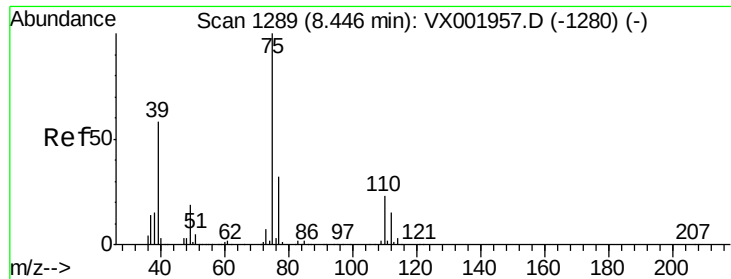
Tot Ion: 41 Resp: 69  
Ion Ratio Lower Upper  
41 100  
69 108.1 37.0 110.9  
39 127.0 29.6 88.9#



#47  
n-amyl Acetate  
Concen: 0.04 ug/l  
RT: 10.90 min Scan# 1692  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 43 Resp: 211  
Ion Ratio Lower Upper  
43 100  
55 0.0 0.1 0.1#





#48

t-1,3-Dichloropropene

Concen: 0.06 ug/l

RT: 8.43 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

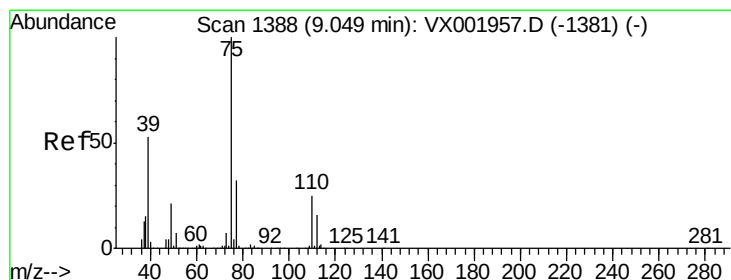
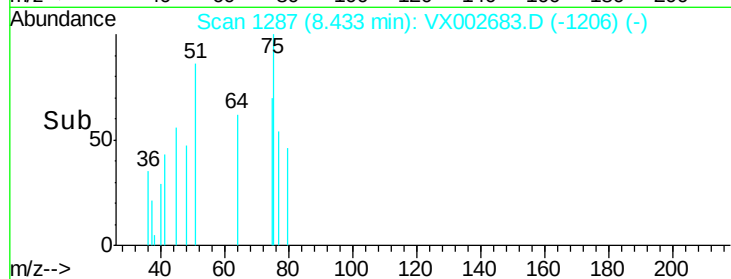
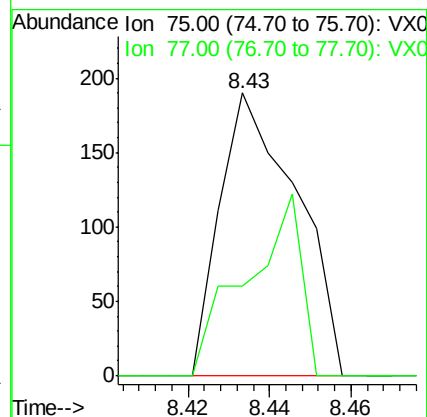
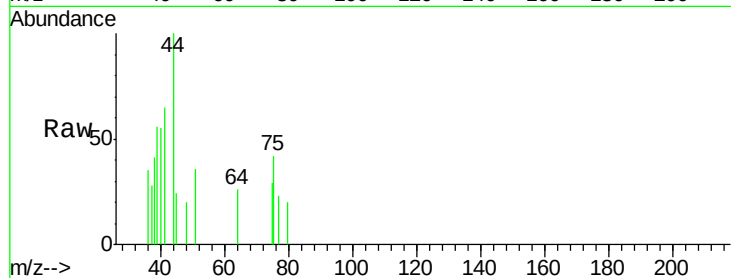
ClientSampled :

Tot Ion: 75 Resp: 249

Ion Ratio Lower Upper

75 100

77 31.6 25.6 38.4



#49

cis-1,3-Dichloropropene

Concen: 0.11 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

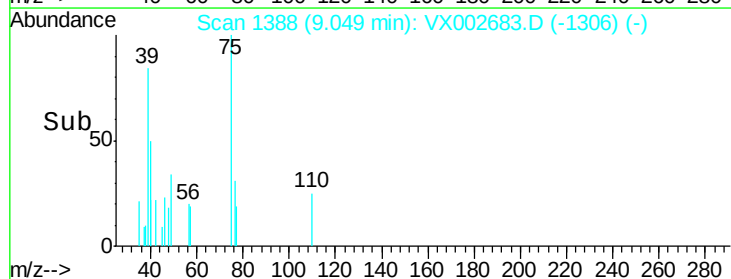
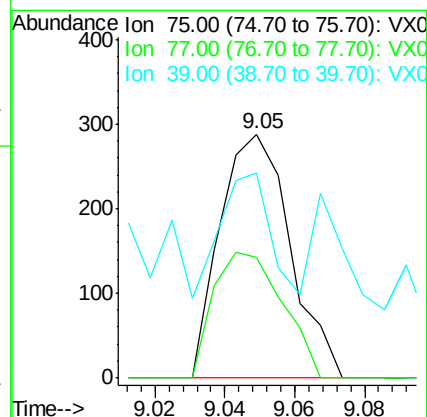
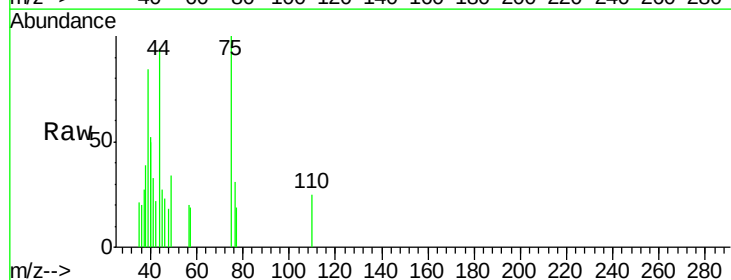
Tgt Ion: 75 Resp: 400

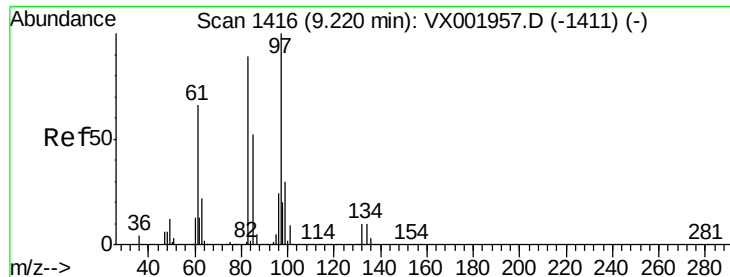
Ion Ratio Lower Upper

75 100

77 49.7 25.4 38.2#

39 51.4 42.3 63.5

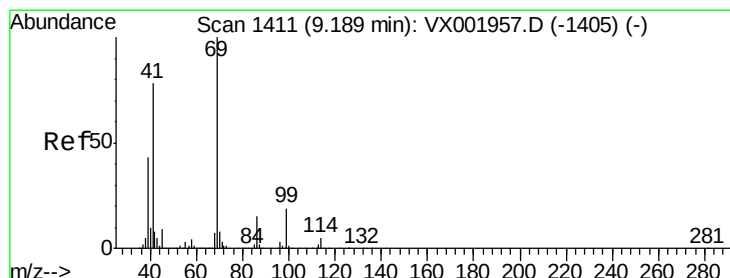
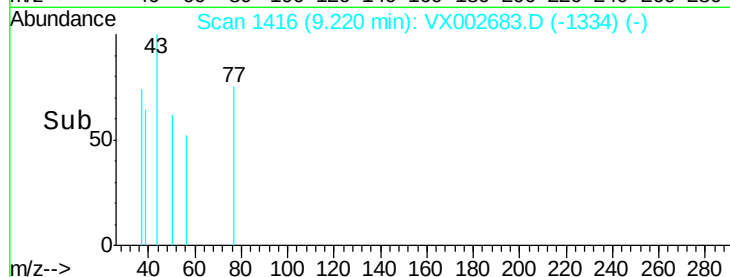
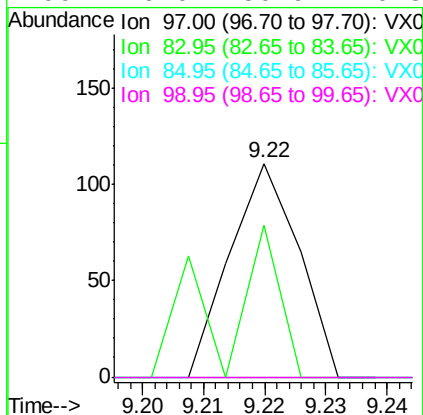
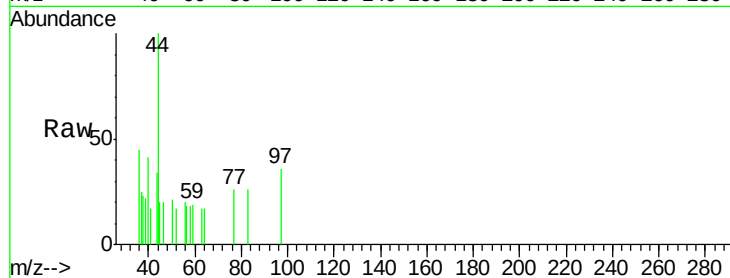




#50  
 1,1,2-Trichloroethane  
 Concen: 0.03 ug/l  
 RT: 9.22 min Scan# 1416  
 Delta R.T. 0.00 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

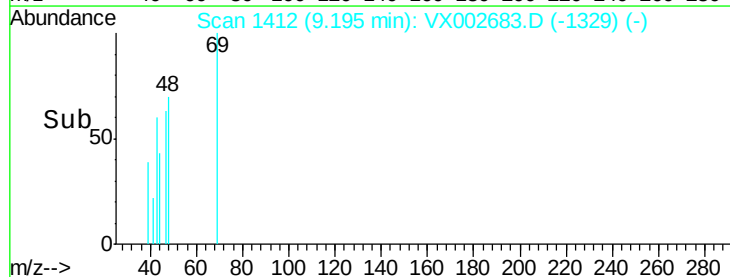
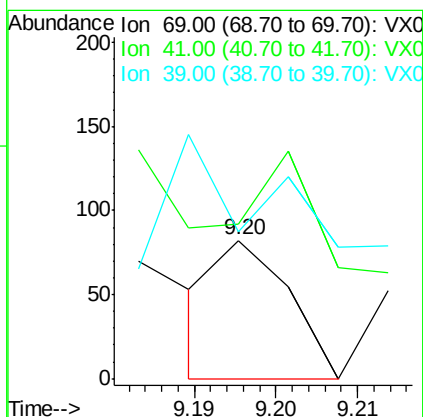
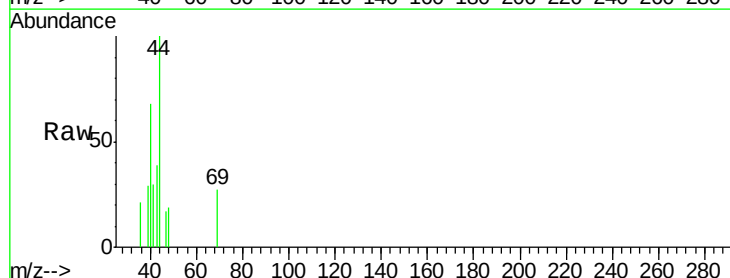
Instrument :  
 MSVOA\_X  
 ClientSampleId :

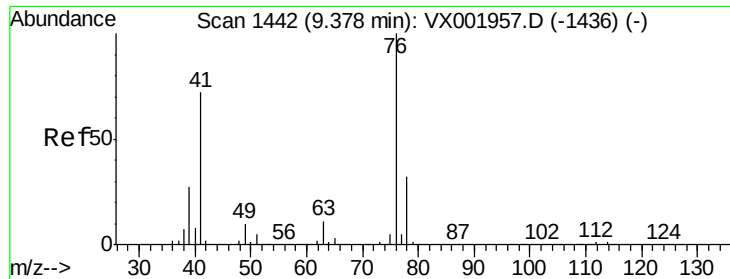
Tot Ion: 97 Resp: 86  
 Ion Ratio Lower Upper  
 97 100  
 83 71.2 70.8 106.2  
 85 0.0 43.5 65.3#  
 99 0.0 50.9 76.3#



#51  
 Ethyl methacrylate  
 Concen: 0.01 ug/l  
 RT: 9.20 min Scan# 1412  
 Delta R.T. 0.01 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Tgt Ion: 69 Resp: 50  
 Ion Ratio Lower Upper  
 69 100  
 41 31.7 39.1 117.3#  
 39 11.0 21.7 65.1#





#52

1,3-Dichloropropane

Concen: 0.02 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

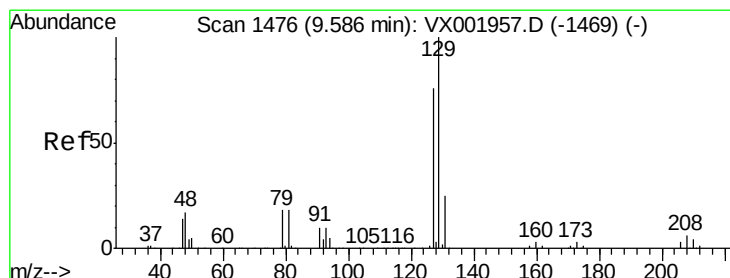
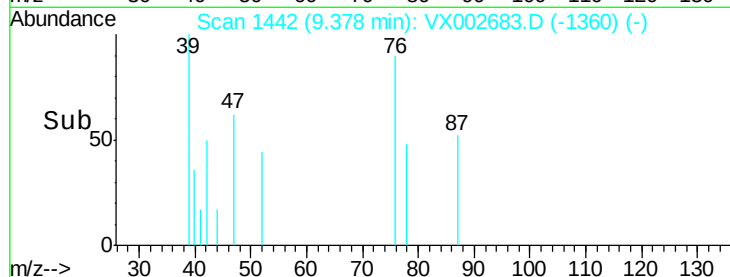
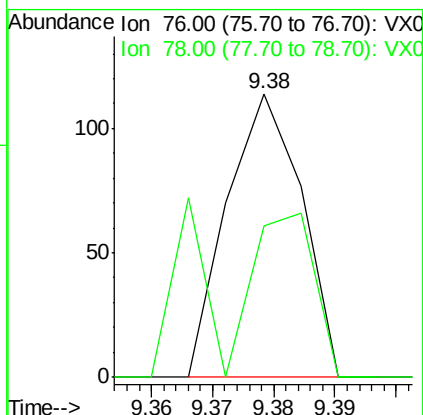
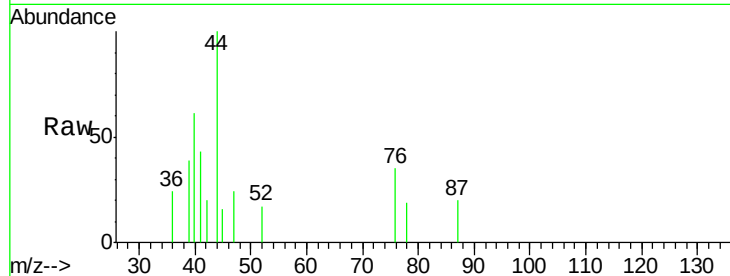
ClientSampleId :

Tot Ion: 76 Resp: 95

Ion Ratio Lower Upper

76 100

78 48.4 0.0 63.4



#53

Dibromochloromethane

Concen: 0.11 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002683.D

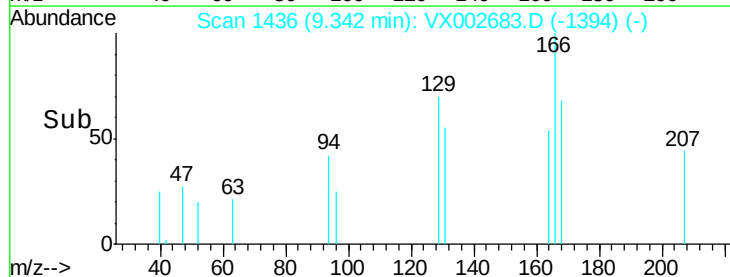
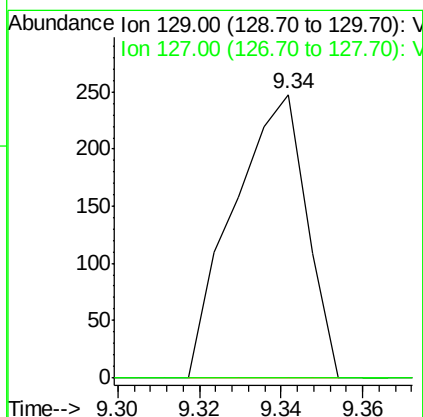
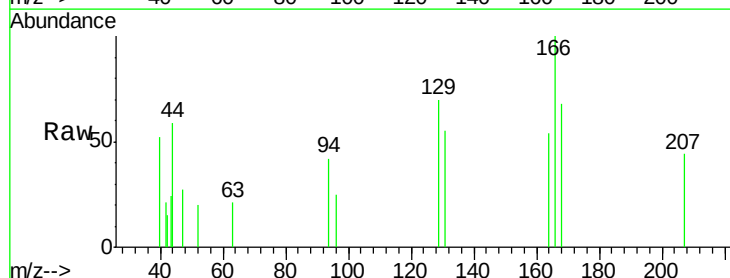
Acq: 18 Jun 2018 16:48

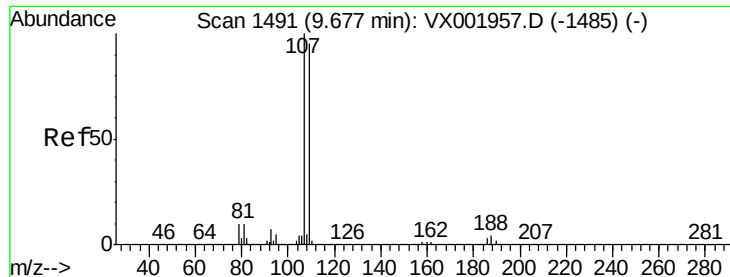
Tgt Ion: 129 Resp: 309

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#





#54

1,2-Dibromoethane

Concen: 0.08 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

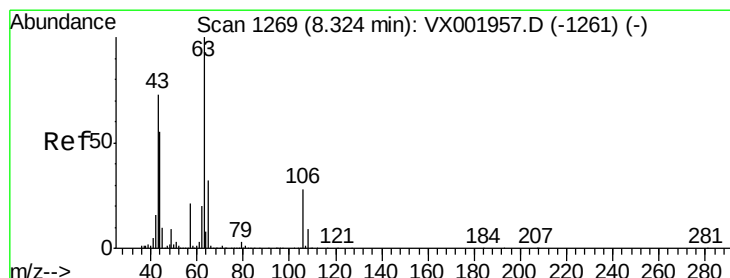
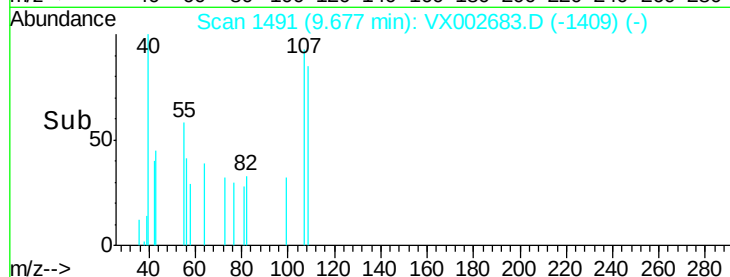
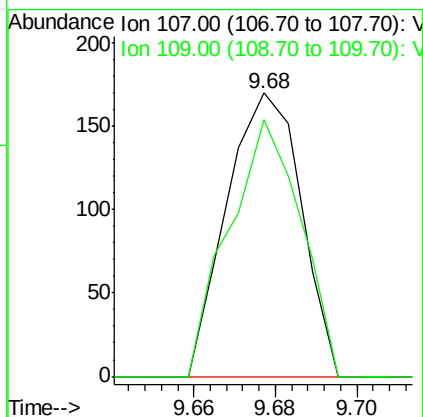
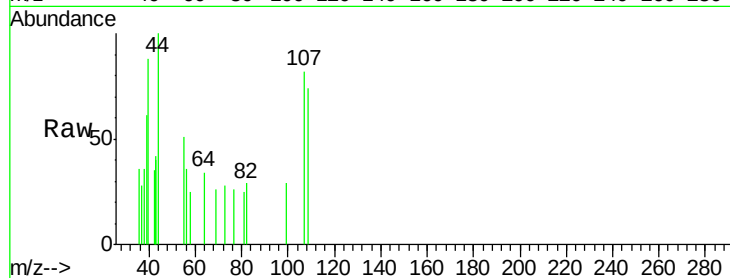
ClientSampleId :

Tot Ion:107 Resp: 216

Ion Ratio Lower Upper

107 100

109 87.0 75.5 113.3



#55

2-Chloroethyl vinyl ether

Concen: 0.22 ug/l

RT: 8.32 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

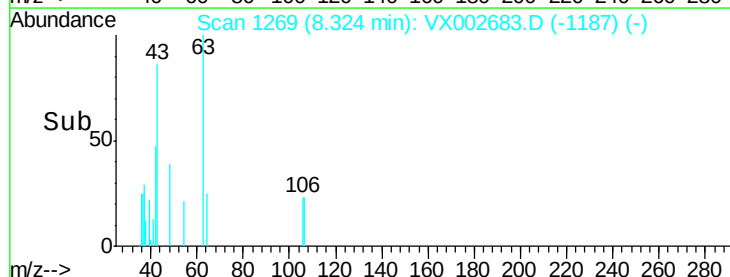
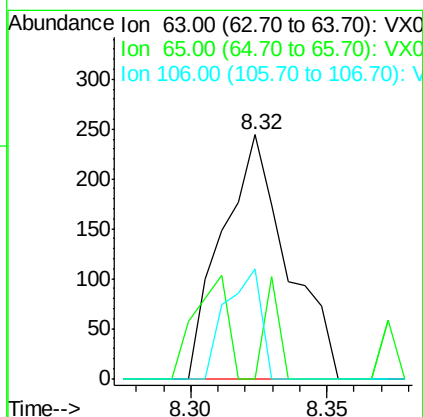
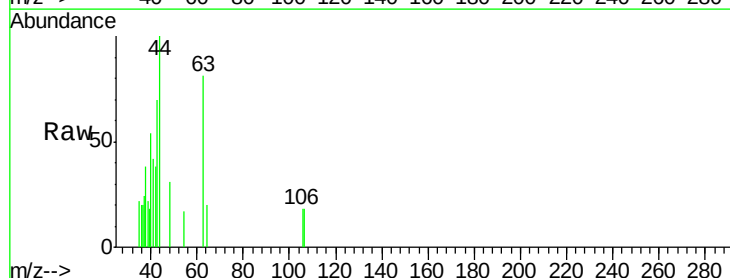
Tgt Ion: 63 Resp: 404

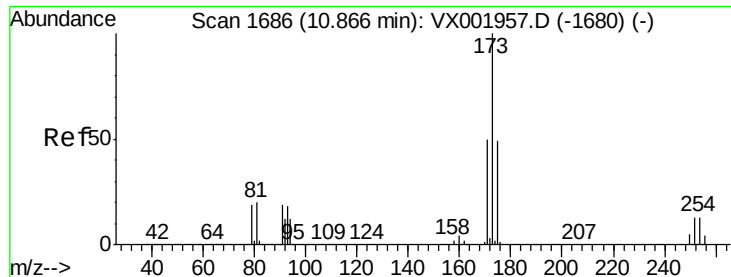
Ion Ratio Lower Upper

63 100

65 21.8 25.6 38.4#

106 24.3 21.6 32.4





#56

Bromoform

Concen: 0.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.28 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

ClientSampled :

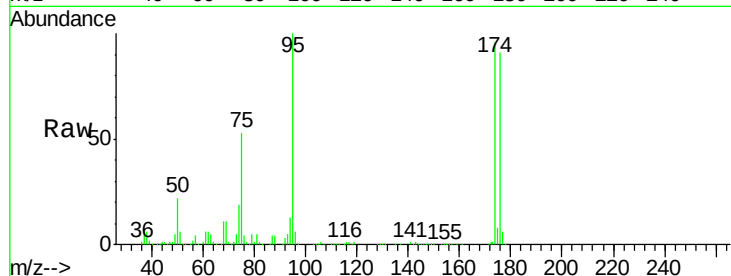
Tot Ion:173 Resp: 1306

Ion Ratio Lower Upper

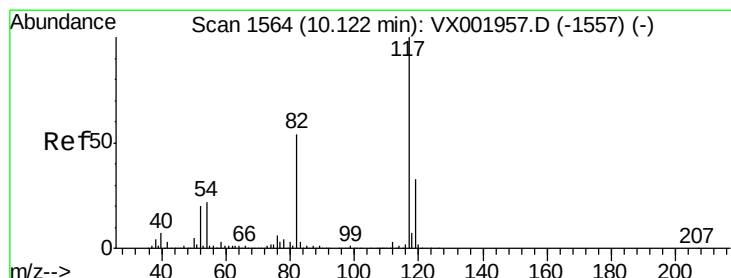
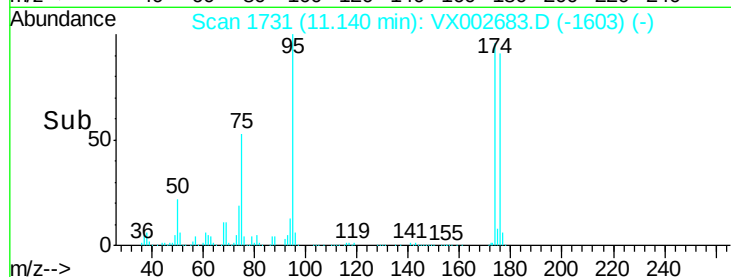
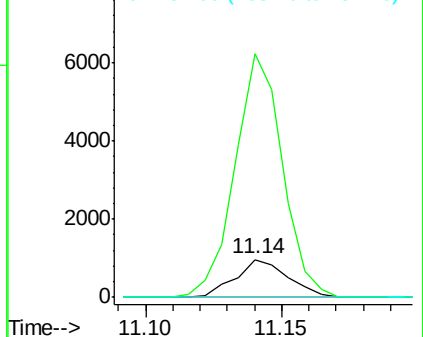
173 100

175 576.1 39.0 58.4#

254 0.0 9.6 14.4#



Abundance Ion 173.00 (172.70 to 173.70): V  
Ion 175.00 (174.70 to 175.70): V  
Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

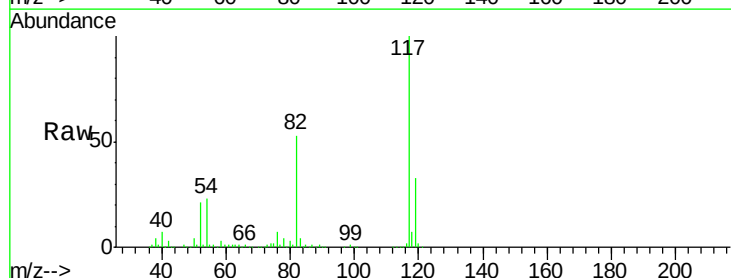
Tgt Ion:117 Resp: 215904

Ion Ratio Lower Upper

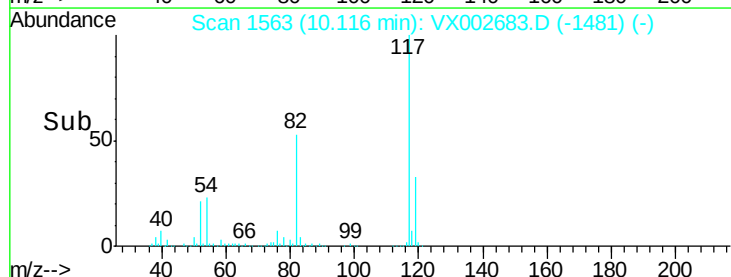
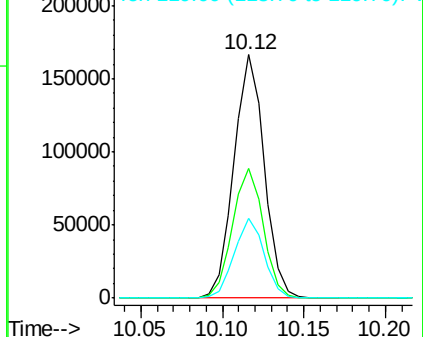
117 100

82 53.8 44.3 66.5

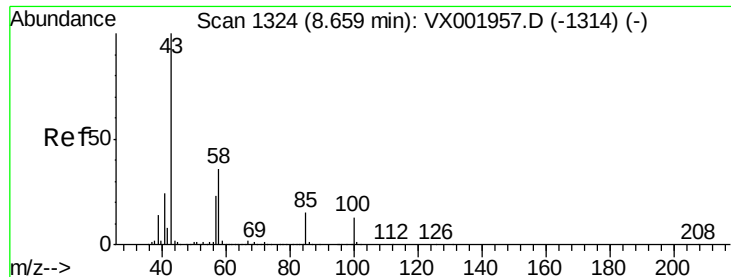
119 32.4 25.7 38.5



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 119.00 (118.70 to 119.70): V



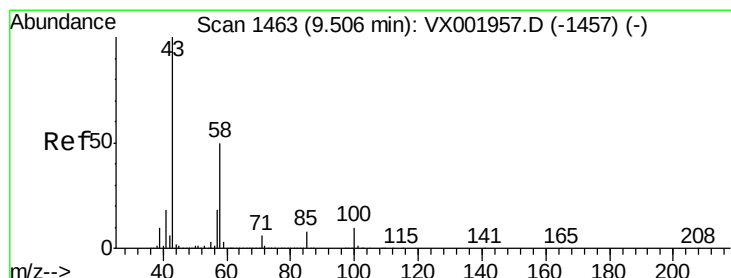
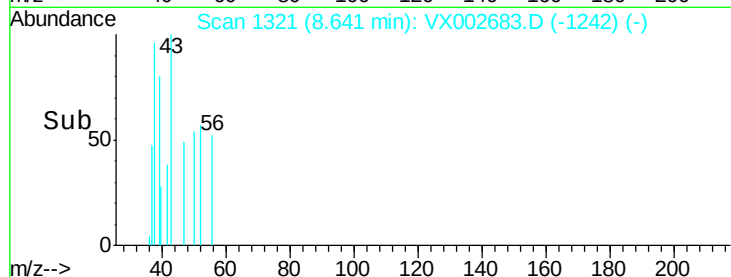
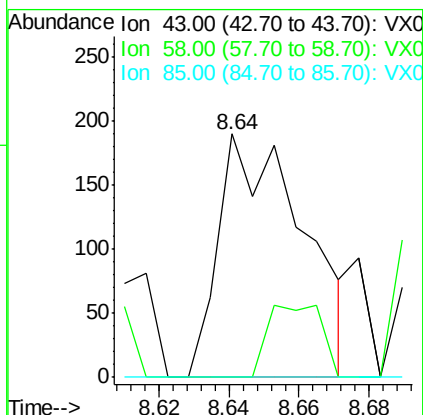
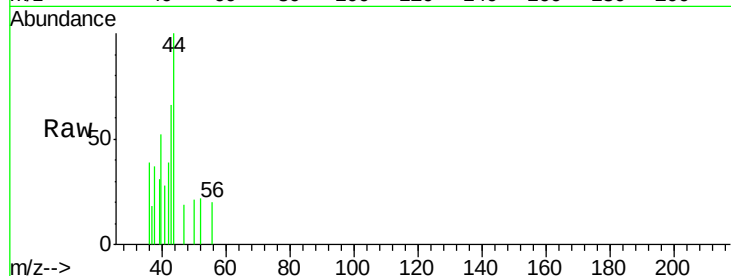




#58  
4-Methyl-2-Pentanone  
Concen: 0.09 ug/l  
RT: 8.64 min Scan# 1321  
Delta R.T. -0.02 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

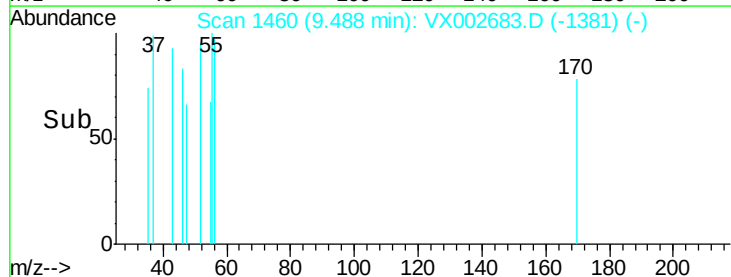
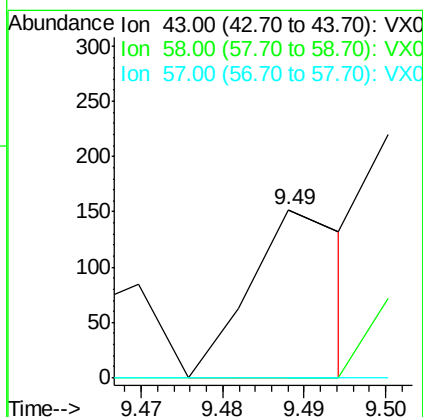
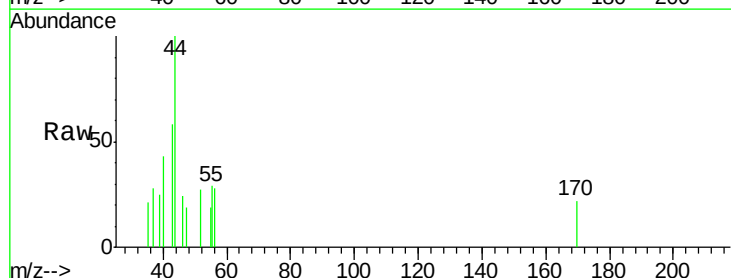
Instrument :  
MSVOA\_X  
ClientSampled :

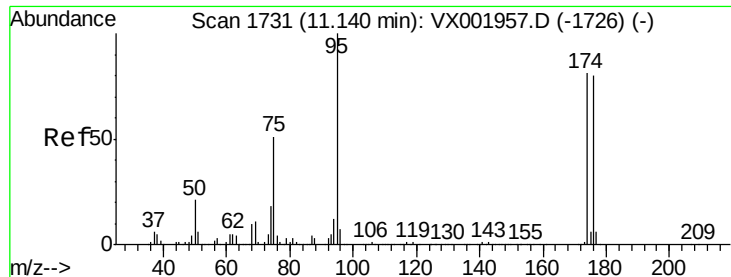
Tot Ion: 43 Resp: 319  
Ion Ratio Lower Upper  
43 100  
58 12.5 28.2 42.4#  
85 0.0 12.4 18.6#



#59  
2-Hexanone  
Concen: 0.05 ug/l  
RT: 9.49 min Scan# 1460  
Delta R.T. -0.02 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 43 Resp: 127  
Ion Ratio Lower Upper  
43 100  
58 89.0 39.6 59.4#  
57 0.0 14.1 21.1#

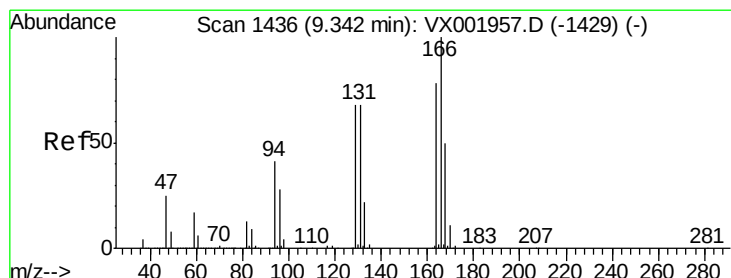
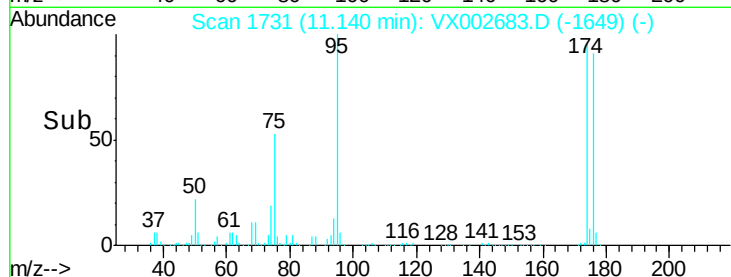
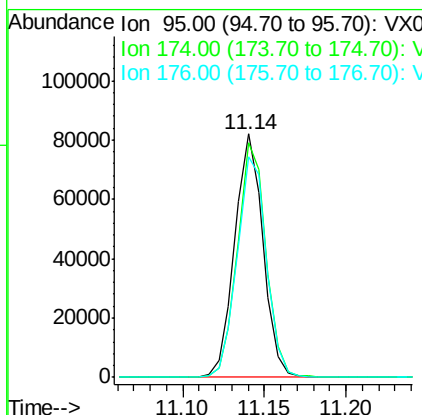
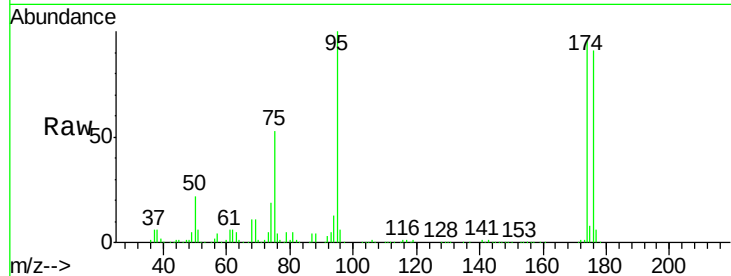




#60  
4-Bromofluorobenzene  
Concen: 27.85 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

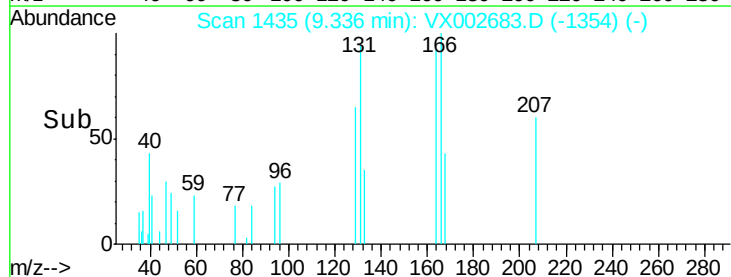
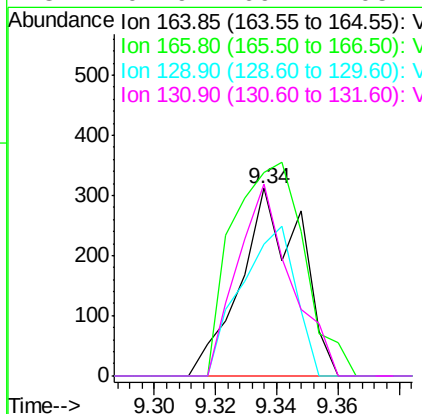
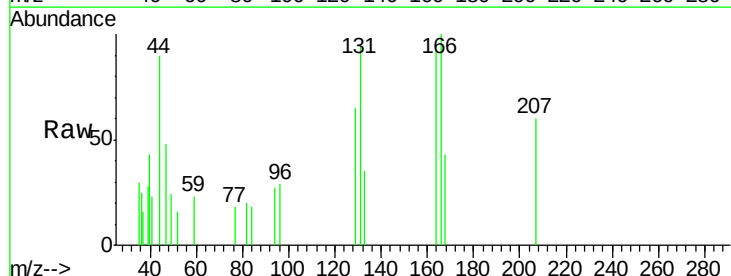
Instrument :  
MSVOA\_X  
ClientSampleId :

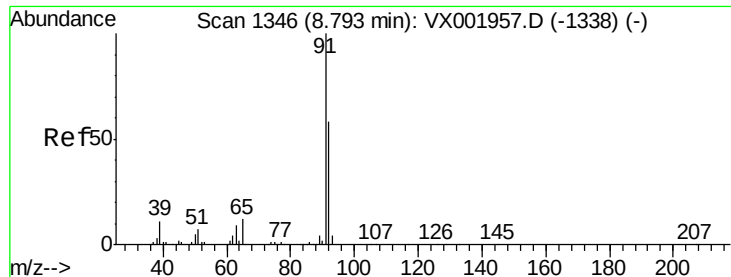
Tot Ion: 95 Resp: 99326  
Ion Ratio Lower Upper  
95 100  
174 97.1 71.8 107.6  
176 94.0 70.1 105.1



#61  
Tetrachloroethene  
Concen: 0.14 ug/l  
RT: 9.34 min Scan# 1435  
Delta R.T. -0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 164 Resp: 426  
Ion Ratio Lower Upper  
164 100  
166 108.3 102.4 153.6  
129 70.5 70.1 105.1  
131 101.9 69.1 103.7





#62

Toluene

Concen: 0.08 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

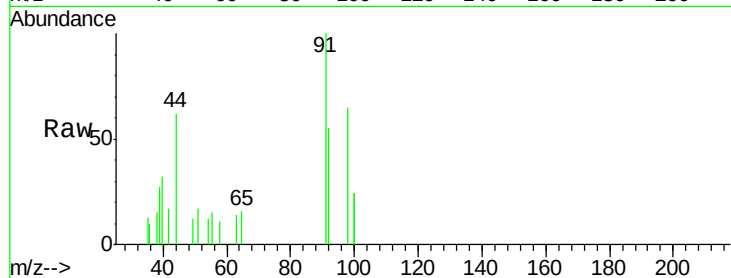
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 91 Resp: 841

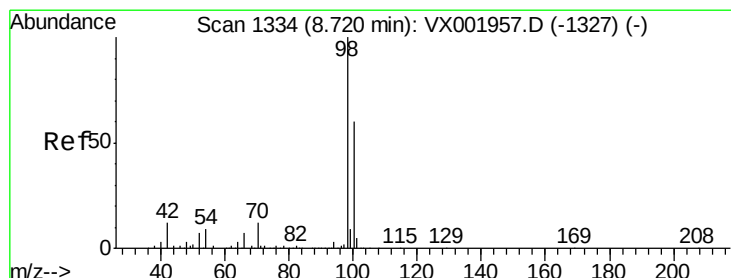
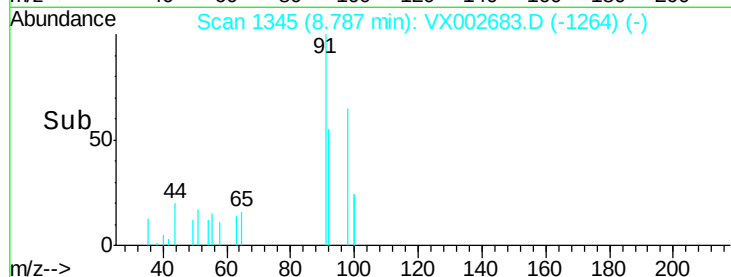
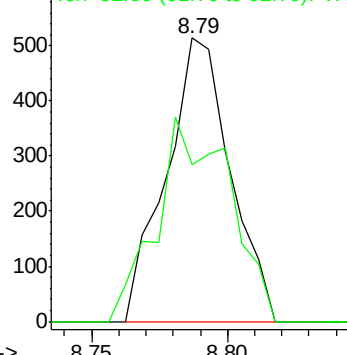
Ion Ratio Lower Upper

91 100

92 43.9 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: 30.27 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002683.D

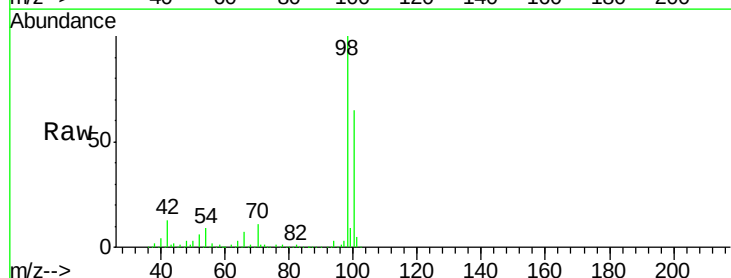
Acq: 18 Jun 2018 16:48

Tgt Ion: 98 Resp: 285510

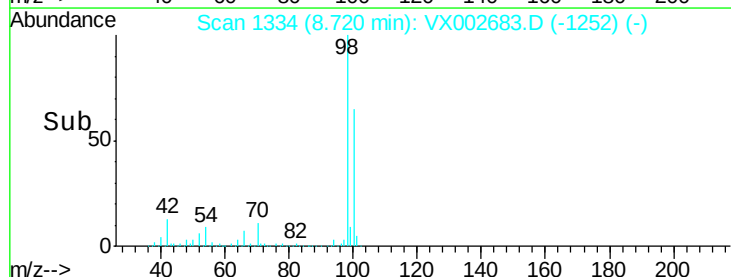
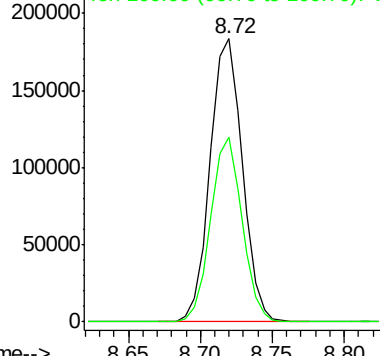
Ion Ratio Lower Upper

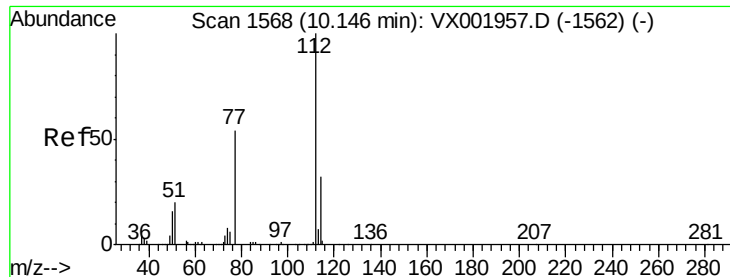
98 100

100 63.2 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): VX0





#64

Chlorobenzene

Concen: 0.14 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

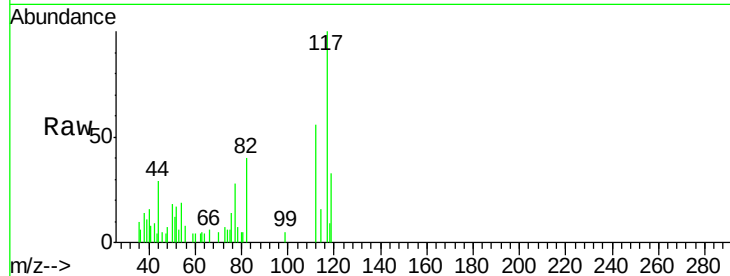
ClientSampleId :

Tot Ion:112 Resp: 998

Ion Ratio Lower Upper

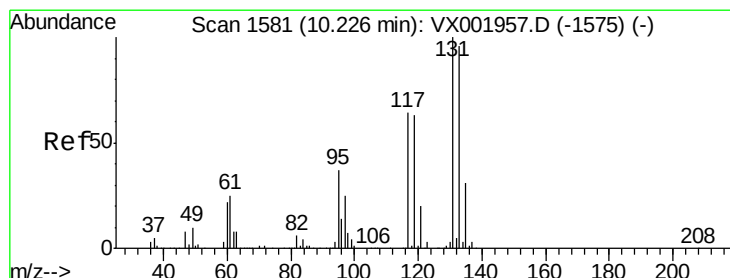
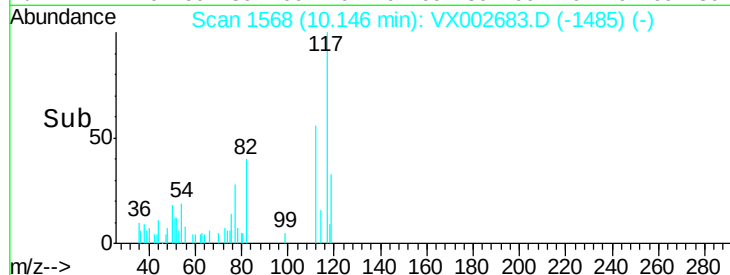
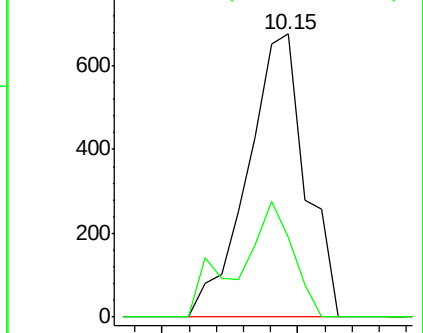
112 100

114 28.3 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#65

1,1,1,2-Tetrachloroethane

Concen: 0.02 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

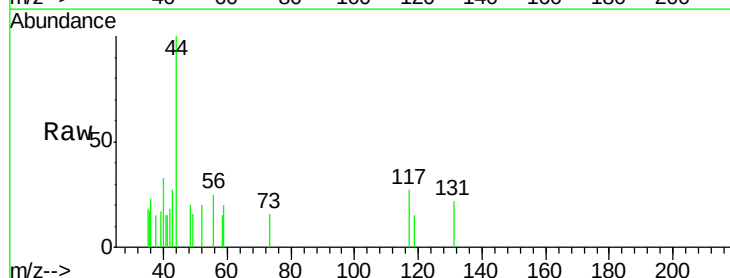
Tgt Ion:131 Resp: 58

Ion Ratio Lower Upper

131 100

133 0.0 0.0 191.2

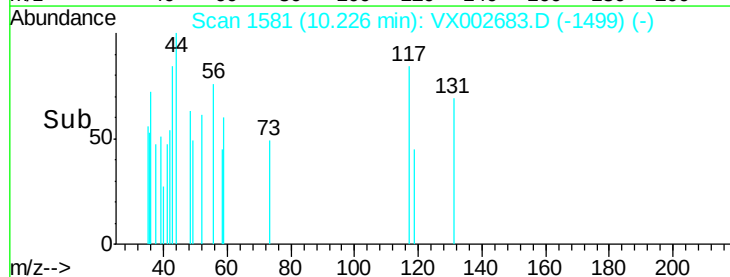
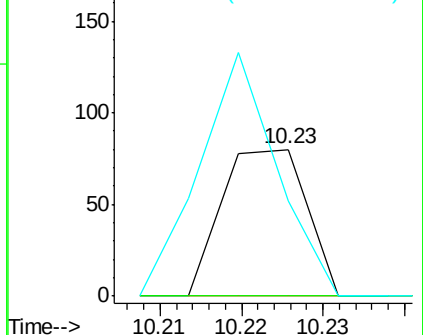
119 150.0 0.0 125.4#

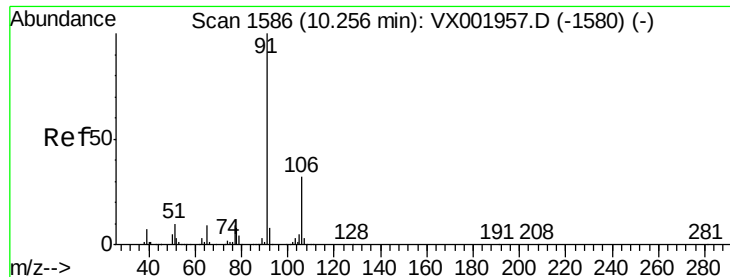


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#66

Ethyl Benzene

Concen: 0.10 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

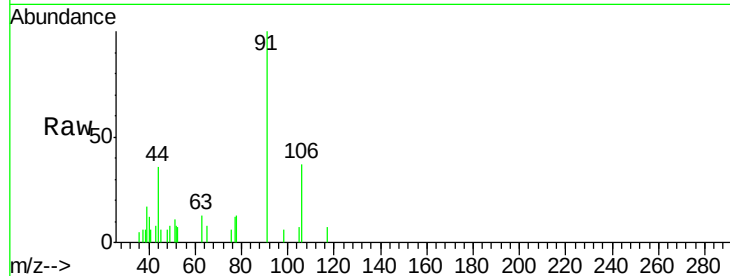
ClientSampled :

Tot Ion: 91 Resp: 1166

Ion Ratio Lower Upper

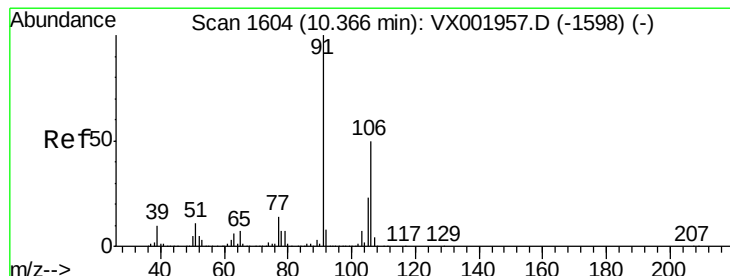
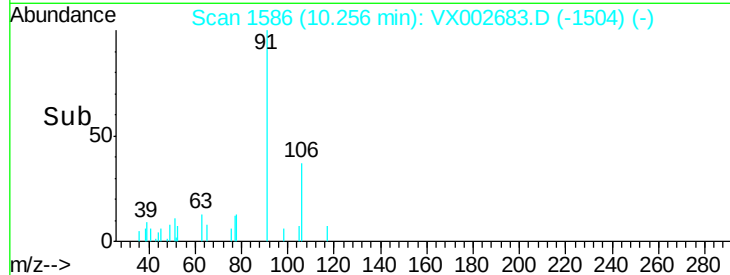
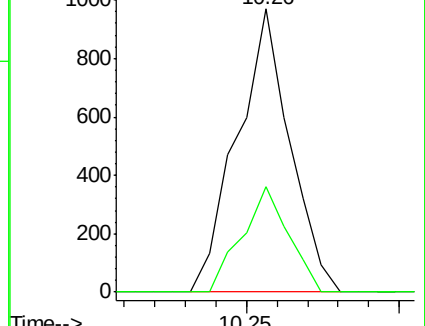
91 100

106 37.5 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#67

m/p-Xylenes

Concen: 0.17 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.01 min

Lab File: VX002683.D

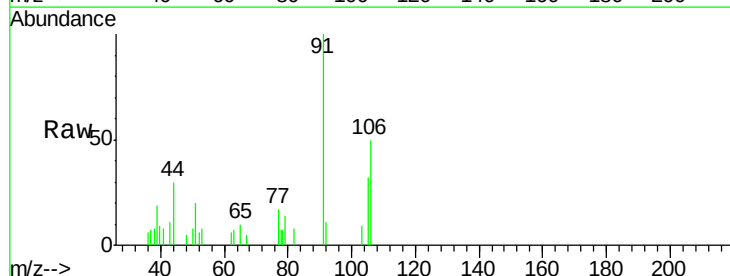
Acq: 18 Jun 2018 16:48

Tgt Ion: 106 Resp: 771

Ion Ratio Lower Upper

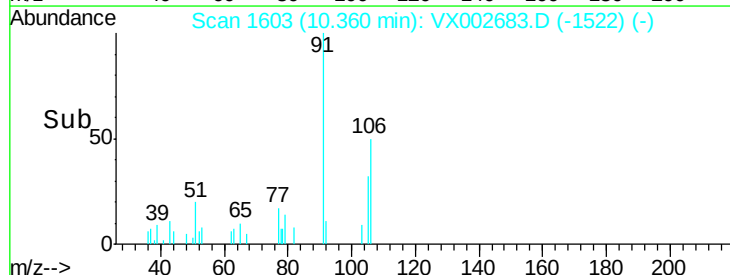
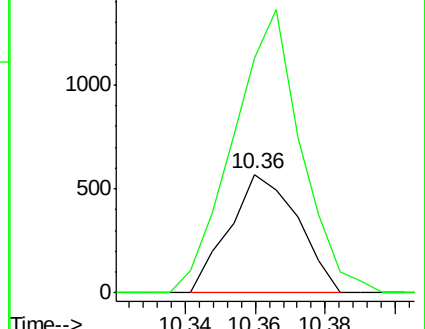
106 100

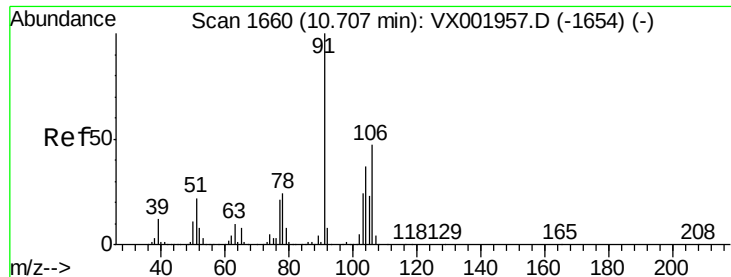
91 237.9 164.1 246.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

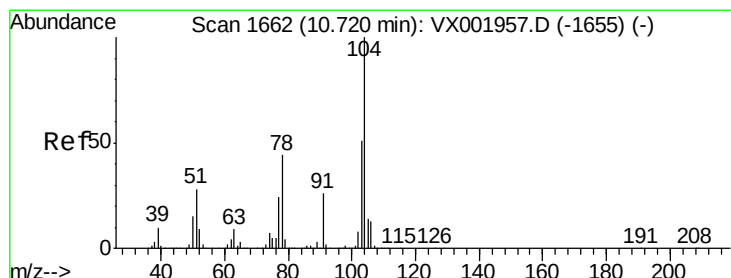
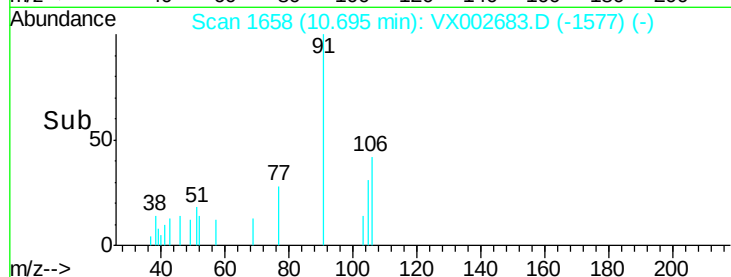
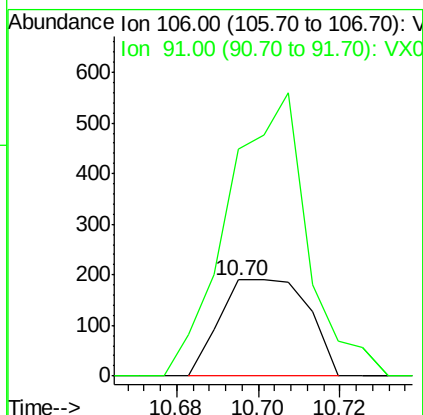
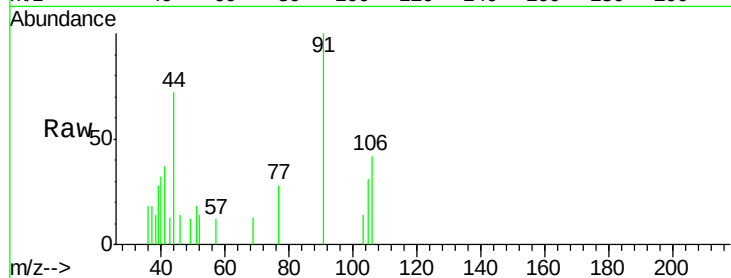




#68  
o-Xylene  
Concen: 0.06 ug/l  
RT: 10.70 min Scan# 1658  
Delta R.T. -0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

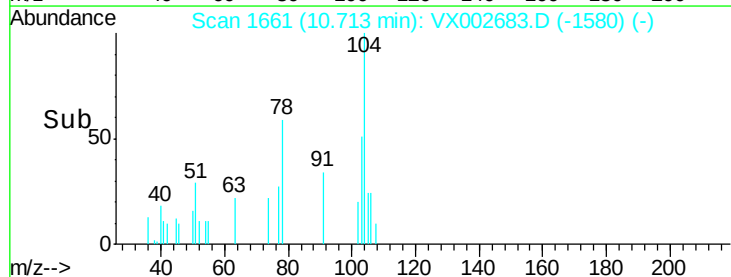
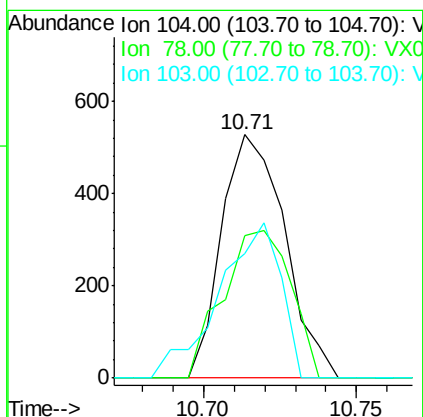
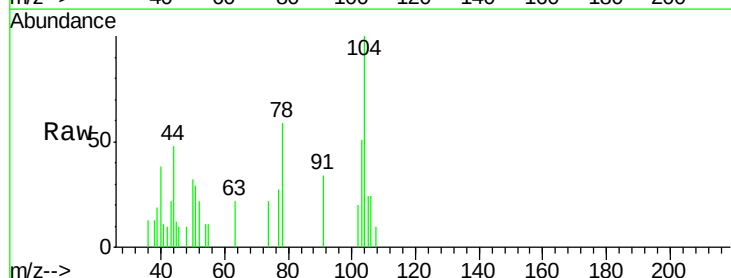
Instrument :  
MSVOA\_X  
ClientSampleId :

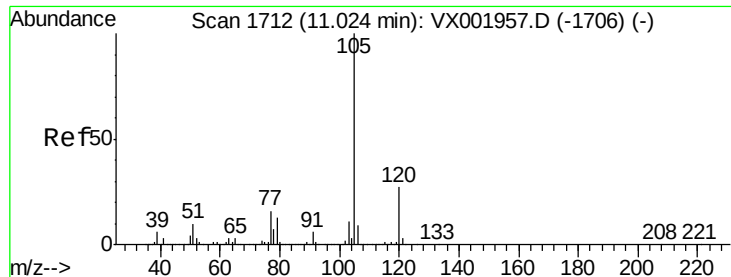
Tot Ion:106 Resp: 287  
Ion Ratio Lower Upper  
106 100  
91 264.5 109.1 327.3



#69  
Styrene  
Concen: 0.10 ug/l  
RT: 10.71 min Scan# 1661  
Delta R.T. -0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion:104 Resp: 756  
Ion Ratio Lower Upper  
104 100  
78 65.1 41.8 62.8#  
103 62.6 44.9 67.3

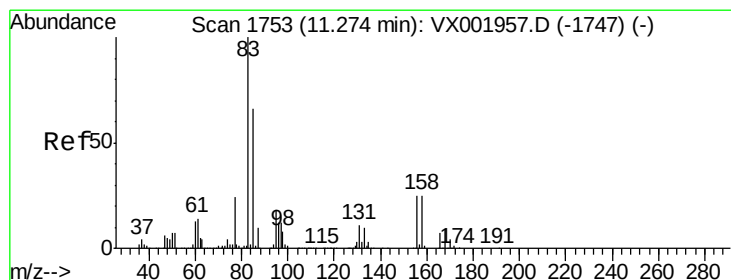
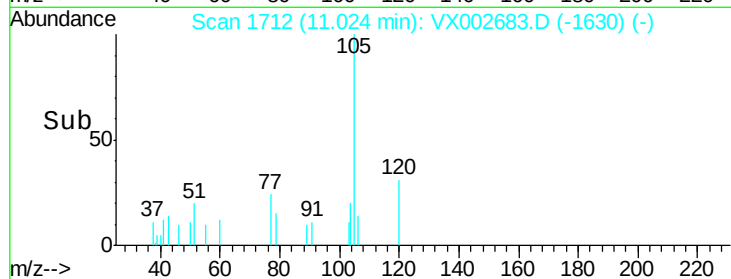
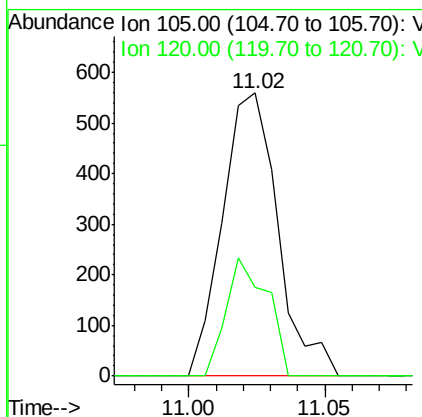
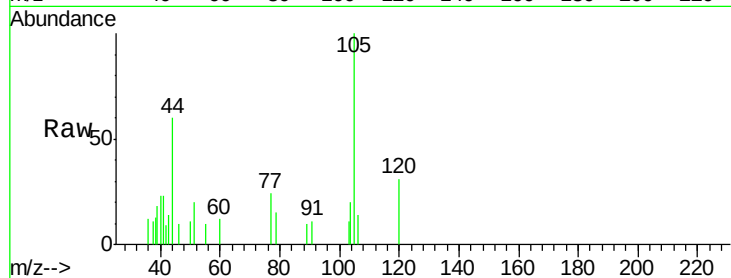




#70  
Isopropylbenzene  
Concen: 0.06 ug/l  
RT: 11.02 min Scan# 1712  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

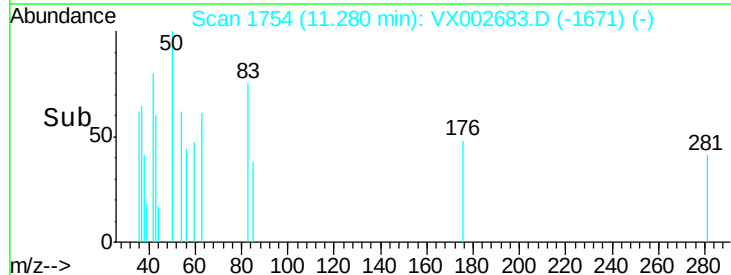
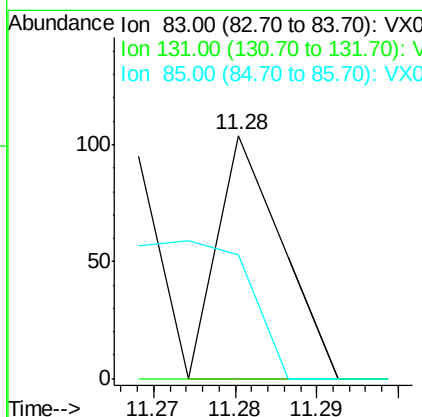
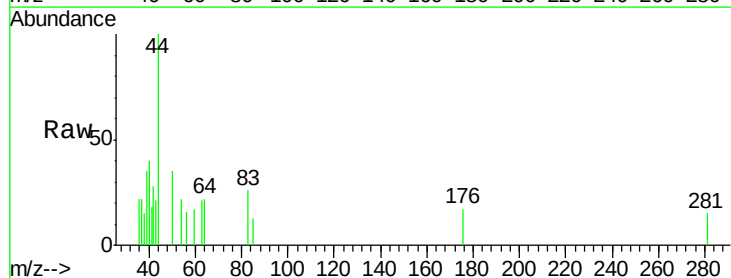
Instrument :  
MSVOA\_X  
ClientSampled :

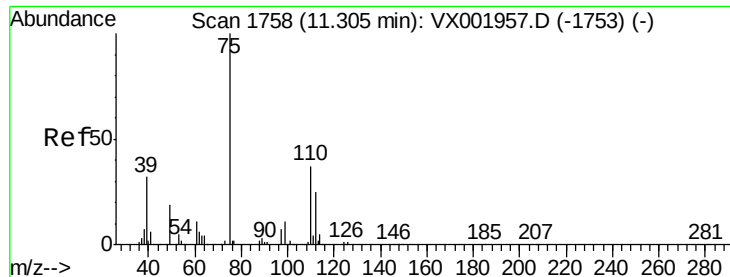
Tot Ion: 105 Resp: 792  
Ion Ratio Lower Upper  
105 100  
120 30.9 19.0 35.2



#71  
1,1,2,2-Tetrachloroethane  
Concen: 0.02 ug/l  
RT: 11.28 min Scan# 1754  
Delta R.T. 0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 83 Resp: 57  
Ion Ratio Lower Upper  
83 100  
131 0.0 5.4 16.2#  
85 108.8 32.4 97.2#





#72

1,2,3-Trichloropropane

Concen: 0.06 ug/l

RT: 11.30 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

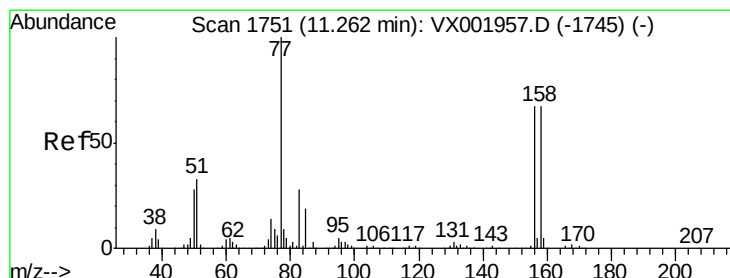
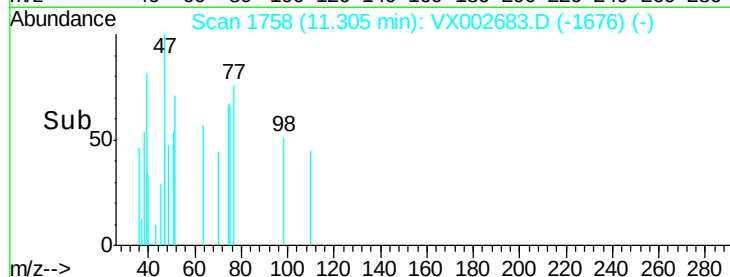
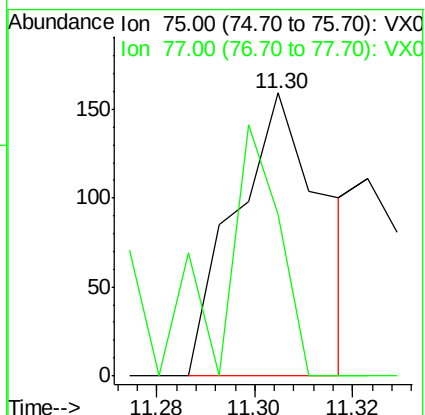
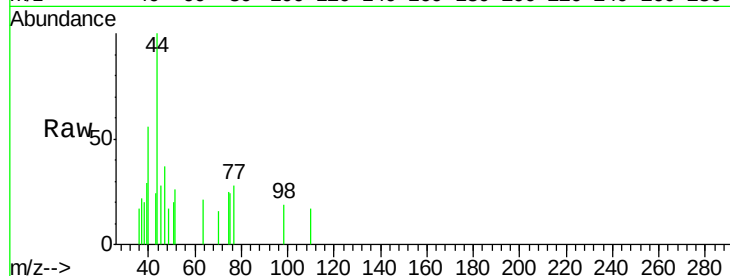
ClientSampled :

Tot Ion: 75 Resp: 200

Ion Ratio Lower Upper

75 100

77 42.5 0.0 71.8



#73

Bromobenzene

Concen: 0.16 ug/l

RT: 11.26 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

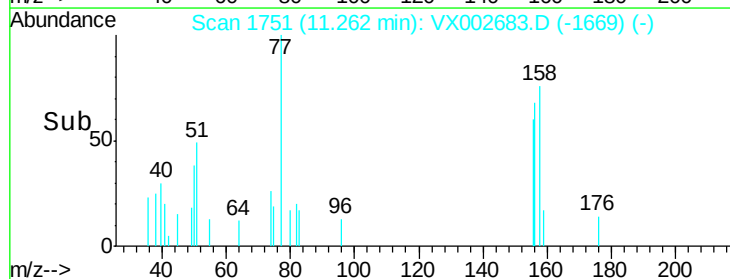
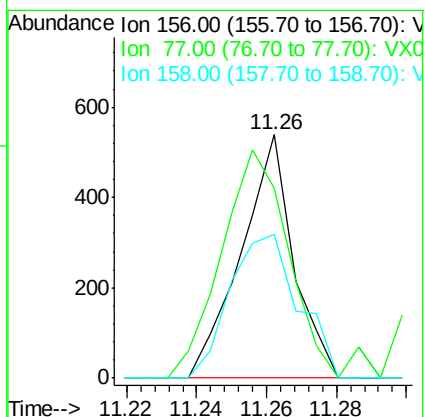
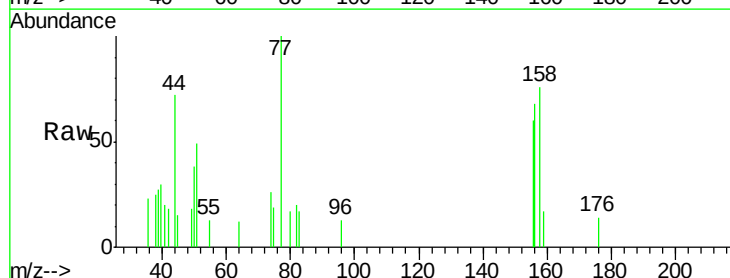
Tgt Ion: 156 Resp: 560

Ion Ratio Lower Upper

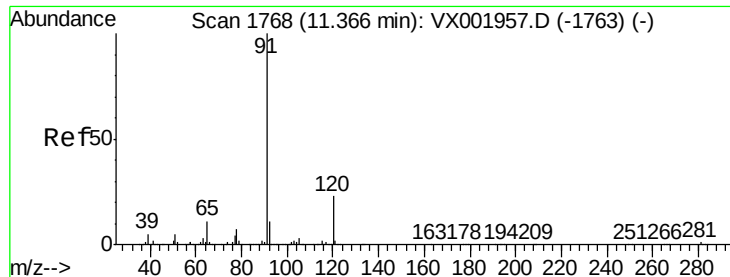
156 100

77 119.1 0.0 301.0

158 77.7 0.0 196.2







#74

n-propylbenzene

Concen: 0.10 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

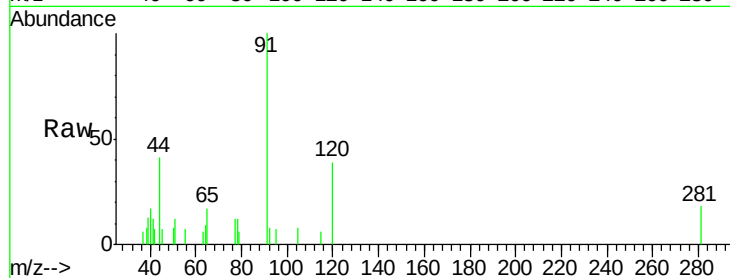
ClientSampled :

Tot Ion: 91 Resp: 1358

Ion Ratio Lower Upper

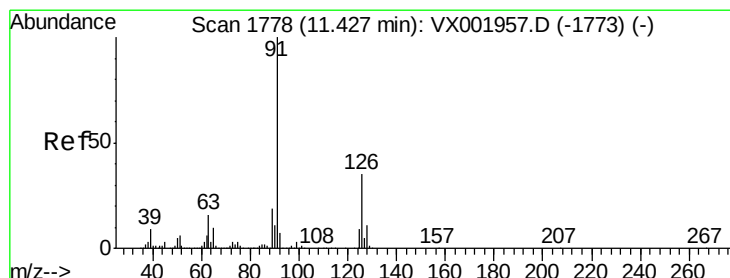
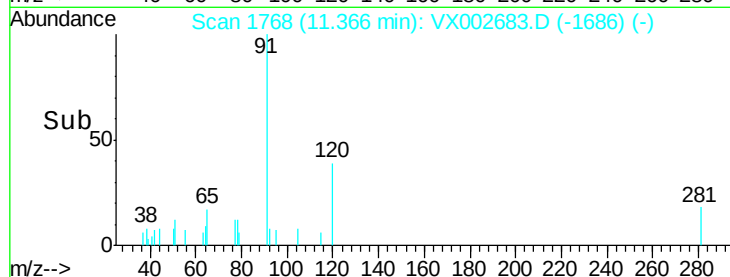
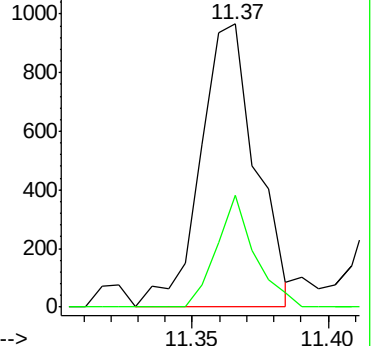
91 100

120 27.2 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: 0.11 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. -0.01 min

Lab File: VX002683.D

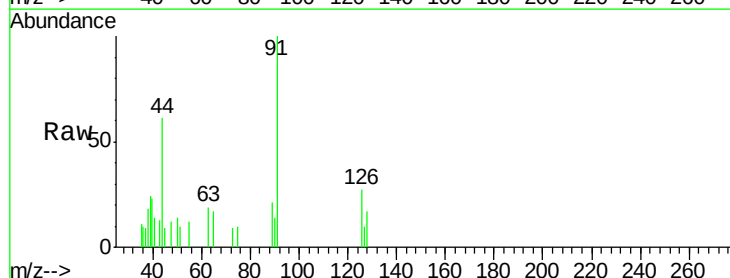
Acq: 18 Jun 2018 16:48

Tgt Ion: 91 Resp: 915

Ion Ratio Lower Upper

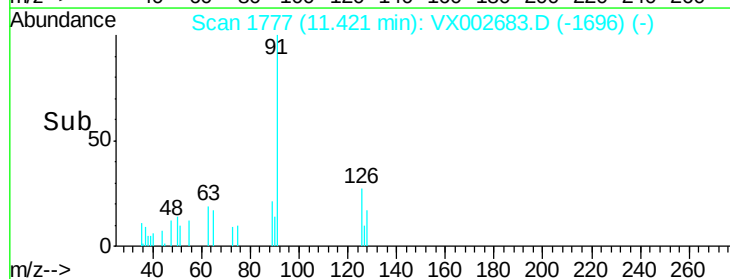
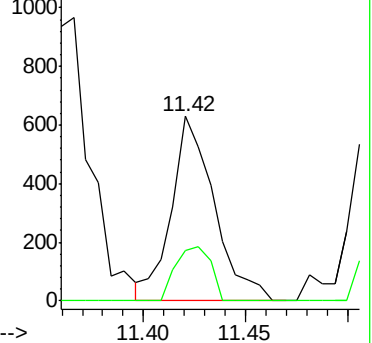
91 100

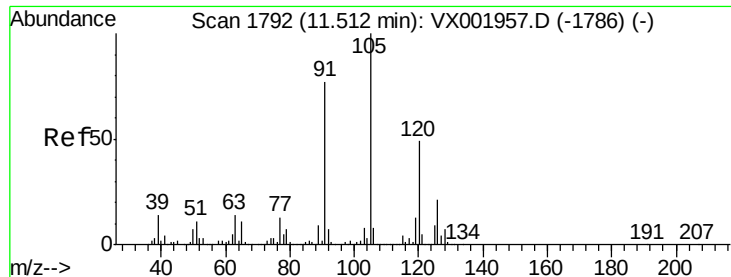
126 24.0 0.0 69.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V

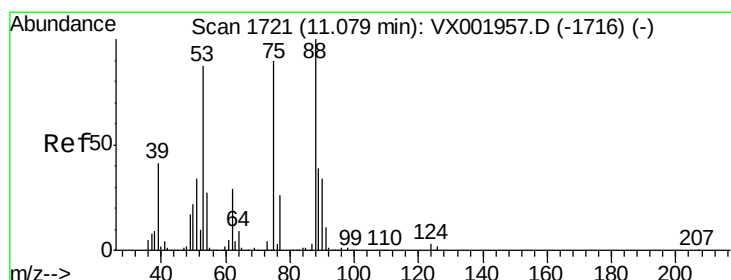
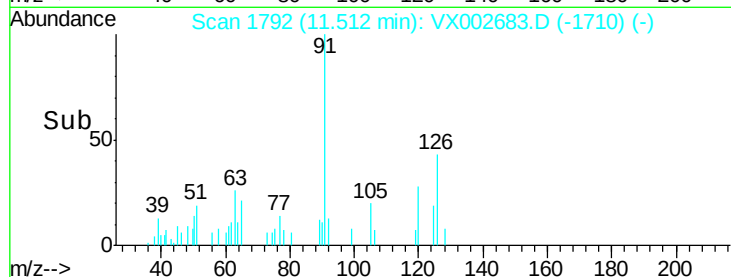
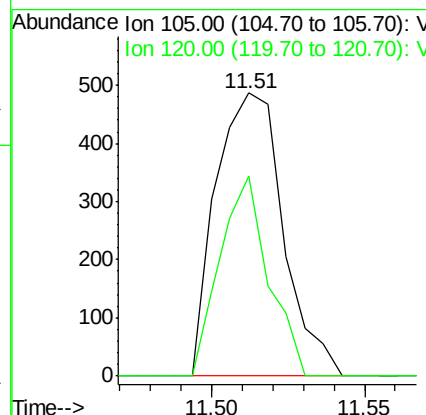
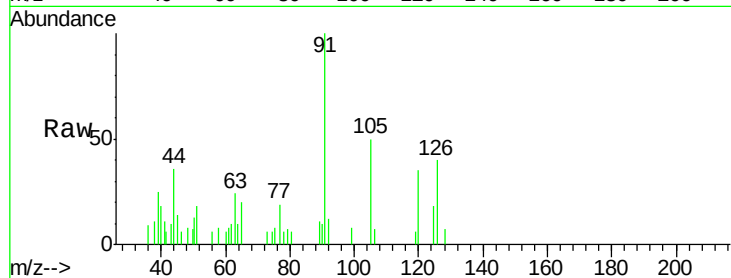




#76  
 1,3,5-Trimethylbenzene  
 Concen: 0.07 ug/l  
 RT: 11.51 min Scan# 1792  
 Delta R.T. 0.00 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

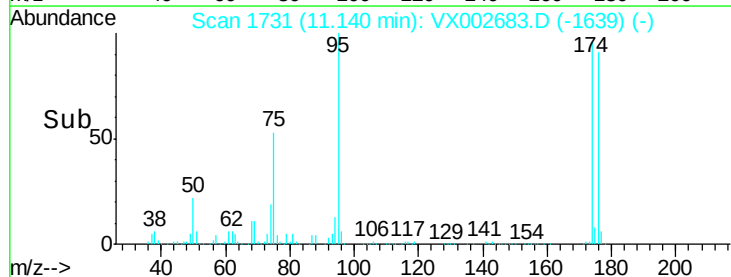
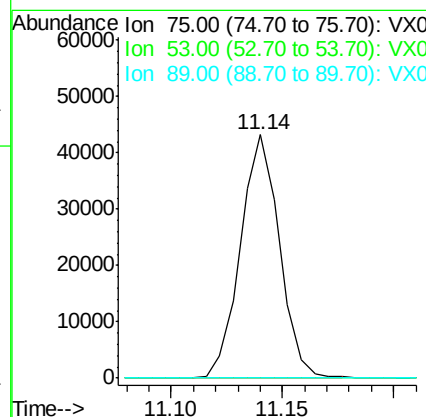
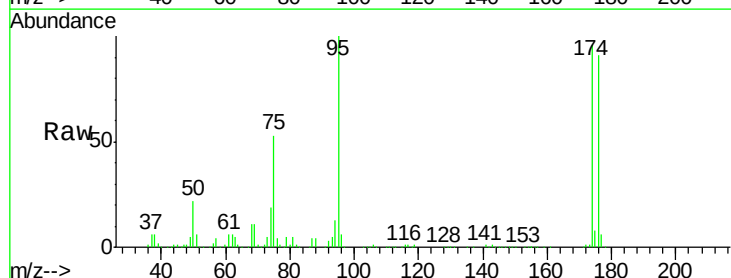
Instrument :  
 MSVOA\_X  
 ClientSampled :

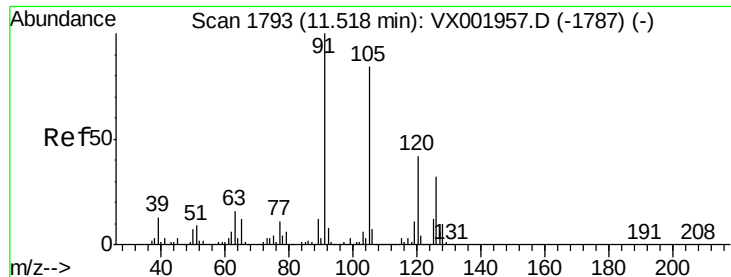
Tot Ion:105 Resp: 742  
 Ion Ratio Lower Upper  
 105 100  
 120 50.5 0.0 96.8



#77  
 t-1,4-Dichloro-2-butene  
 Concen: 51.40 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Tgt Ion: 75 Resp: 52423  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 48.3 144.9#  
 89 0.0 21.8 65.4#

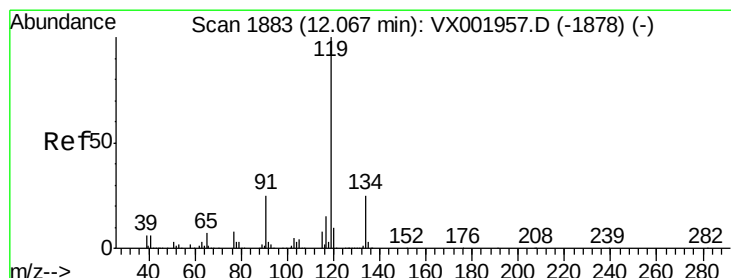
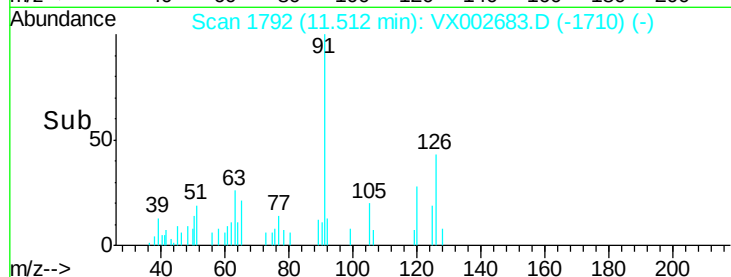
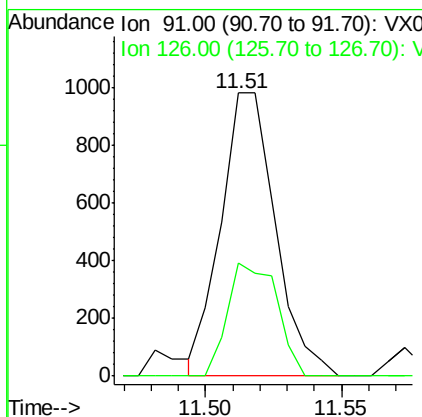
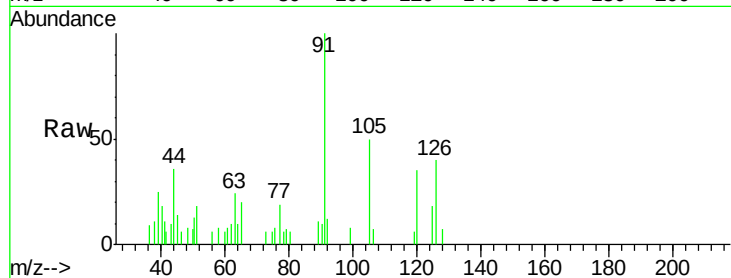




#78  
4-Chlorotoluene  
Concen: 0.14 ug/l  
RT: 11.51 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

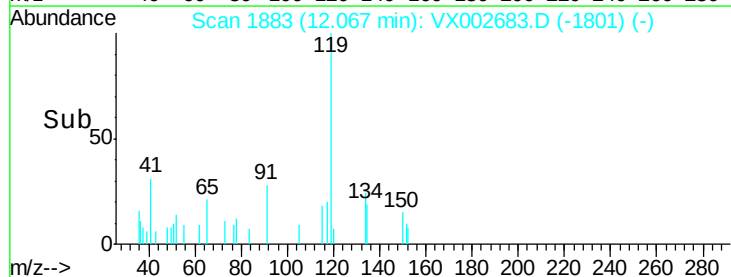
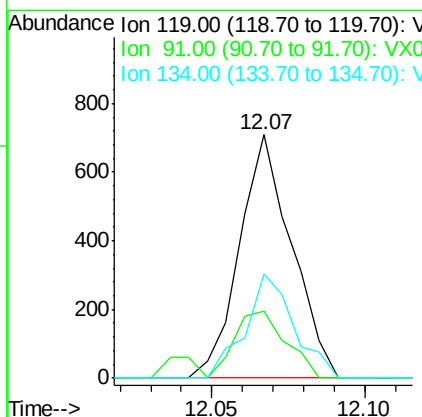
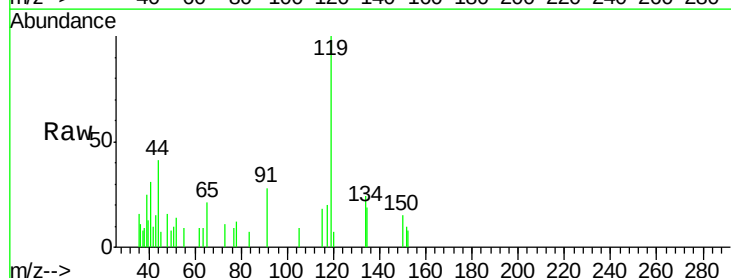
Instrument :  
MSVOA\_X  
ClientSampled :

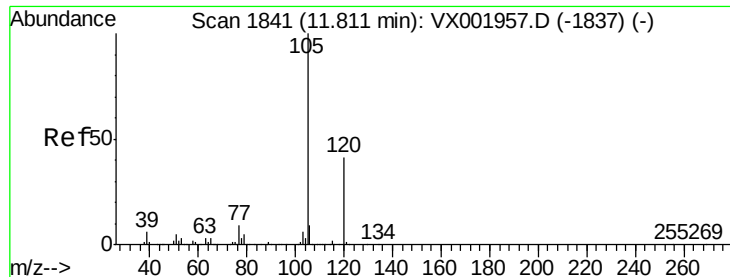
Tot Ion: 91 Resp: 1370  
Ion Ratio Lower Upper  
91 100  
126 35.8 0.0 61.0



#79  
tert-butylbenzene  
Concen: 0.07 ug/l  
RT: 12.07 min Scan# 1883  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 119 Resp: 838  
Ion Ratio Lower Upper  
119 100  
91 27.3 0.0 48.0  
134 40.1 0.0 52.6





#80

1,2,4-Trimethylbenzene

Concen: 0.09 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

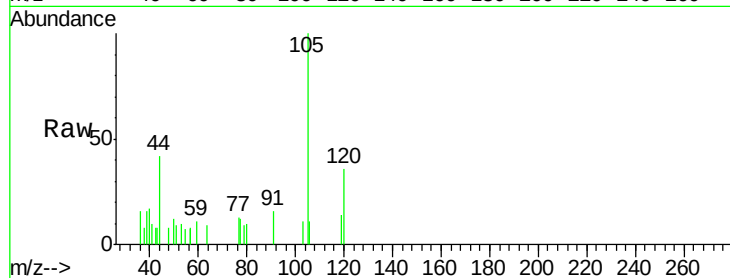
ClientSampleId :

Tot Ion:105 Resp: 986

Ion Ratio Lower Upper

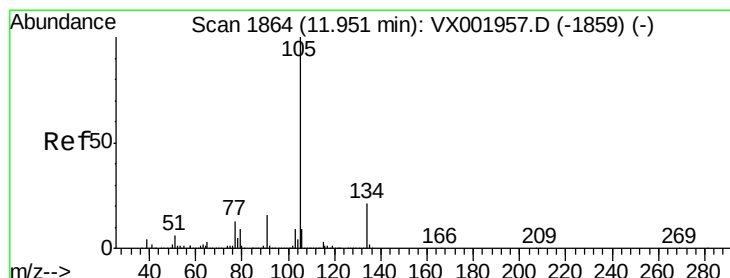
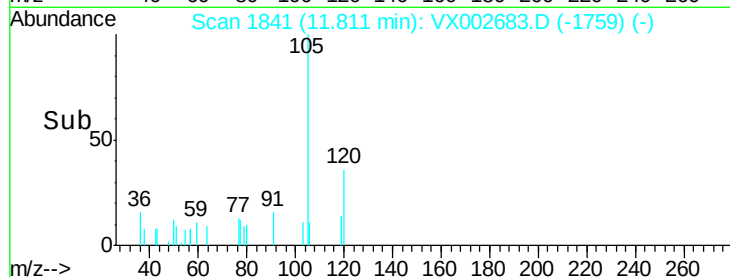
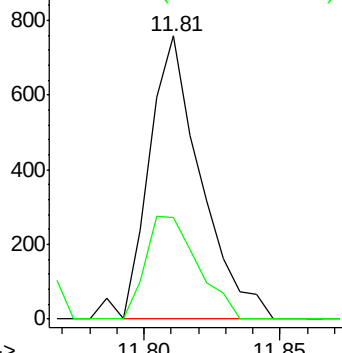
105 100

120 37.0 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: 0.07 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX002683.D

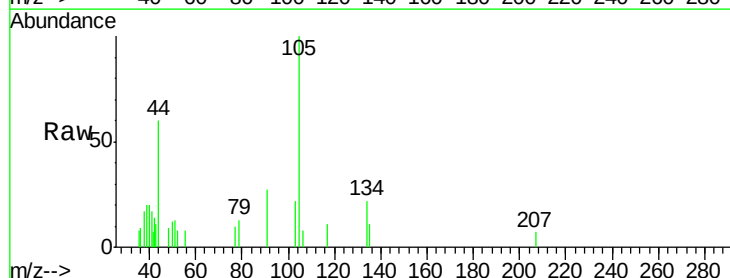
Acq: 18 Jun 2018 16:48

Tgt Ion:105 Resp: 948

Ion Ratio Lower Upper

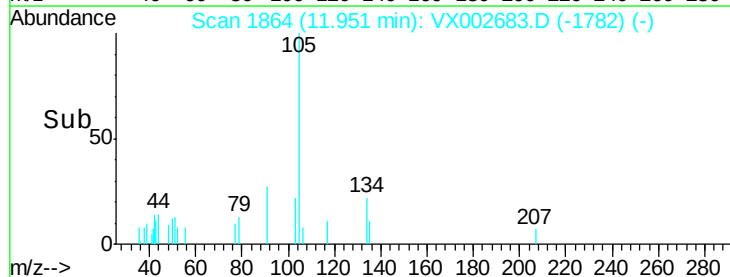
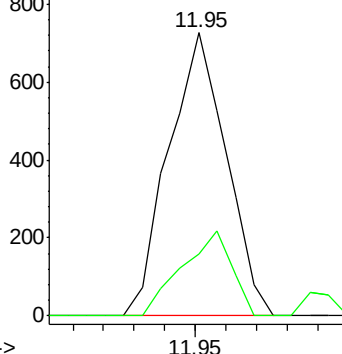
105 100

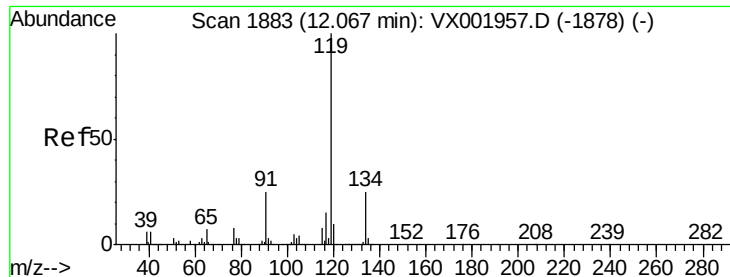
134 25.9 0.0 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

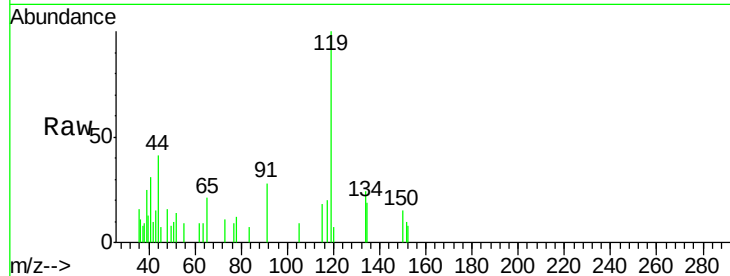




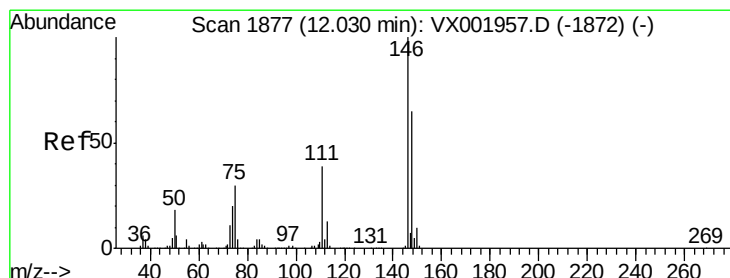
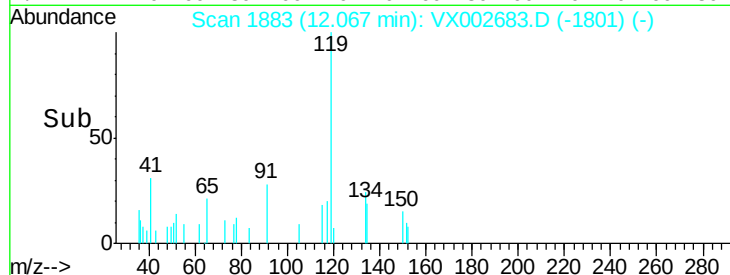
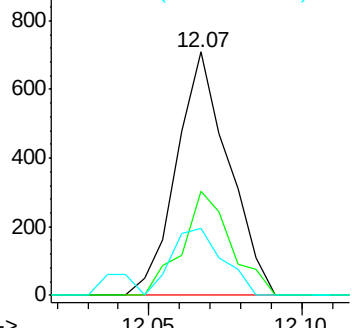
#82  
p-Isopropyltoluene  
Concen: 0.07 ug/l  
RT: 12.07 min Scan# 1883  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Instrument :  
MSVOA\_X  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 40.1  | 0.0   | 52.6  |
| 91      | 27.3  | 0.0   | 48.0  |

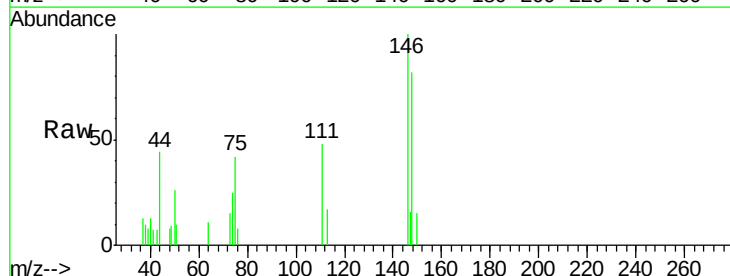


Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 134.00 (133.70 to 134.70): V  
Ion 91.00 (90.70 to 91.70): V

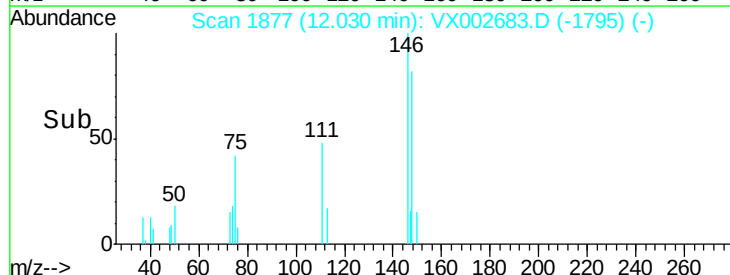
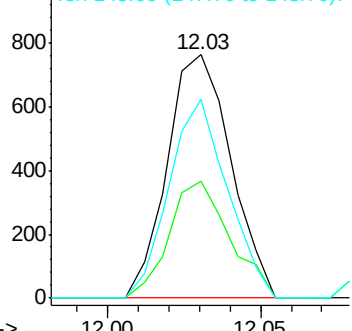


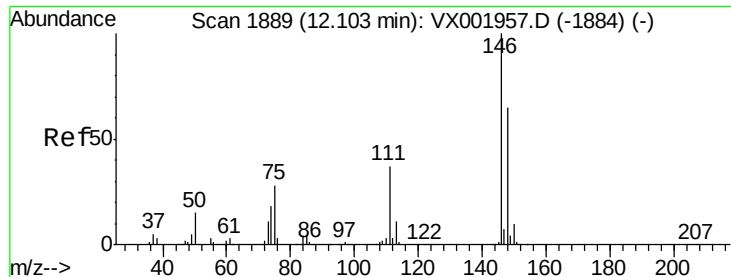
#83  
1,3-Dichlorobenzene  
Concen: 0.18 ug/l  
RT: 12.03 min Scan# 1877  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.9  | 19.1  | 57.5  |
| 148     | 75.1  | 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

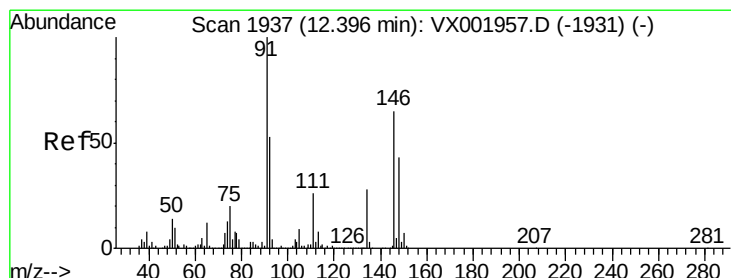
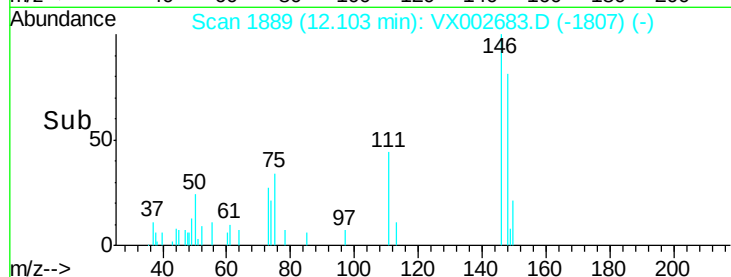
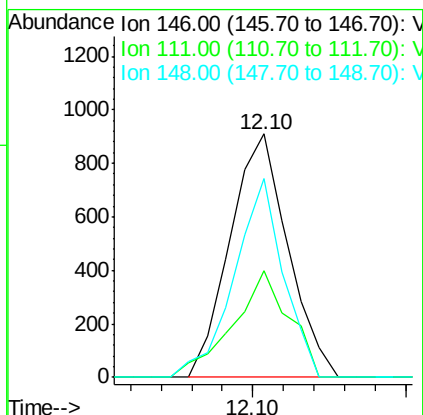
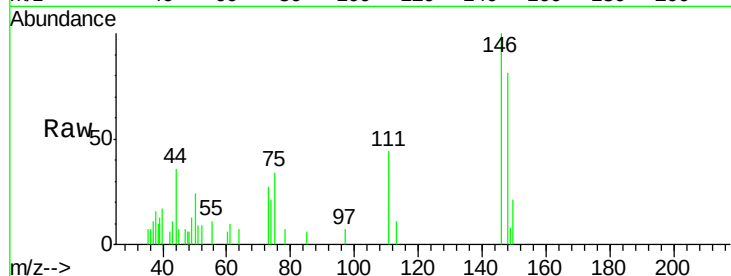




#84  
1,4-Dichlorobenzene  
Concen: 0.19 ug/l  
RT: 12.10 min Scan# 1889  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

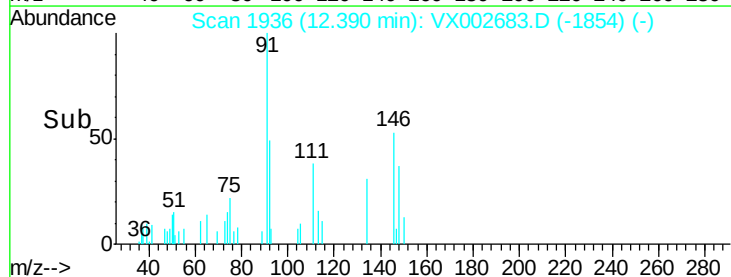
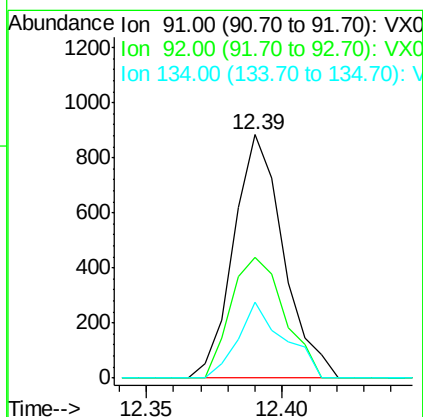
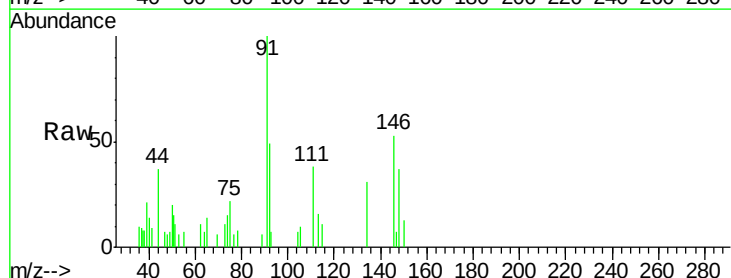
Instrument :  
MSVOA\_X  
ClientSampleId :

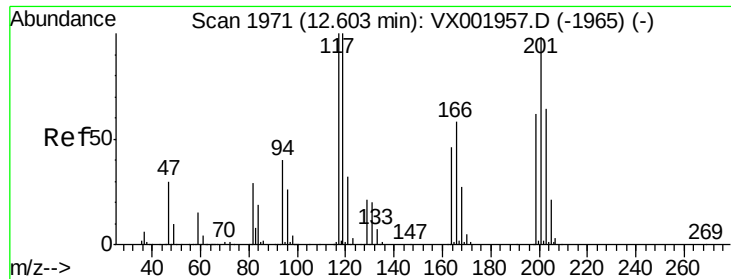
Tot Ion:146 Resp: 1195  
Ion Ratio Lower Upper  
146 100  
111 42.2 18.5 55.5  
148 69.0 32.0 96.0



#85  
n-Butylbenzene  
Concen: 0.11 ug/l  
RT: 12.39 min Scan# 1936  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion: 91 Resp: 1120  
Ion Ratio Lower Upper  
91 100  
92 53.3 0.0 105.2  
134 29.0 0.0 53.2





#86

Hexachloroethane

Concen: 0.03 ug/l

RT: 12.61 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

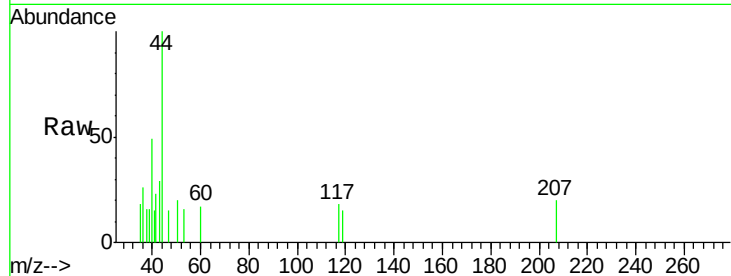
ClientSampleId :

Tot Ion:117 Resp: 44

Ion Ratio Lower Upper

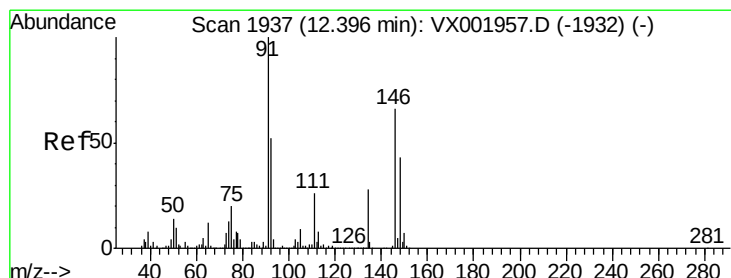
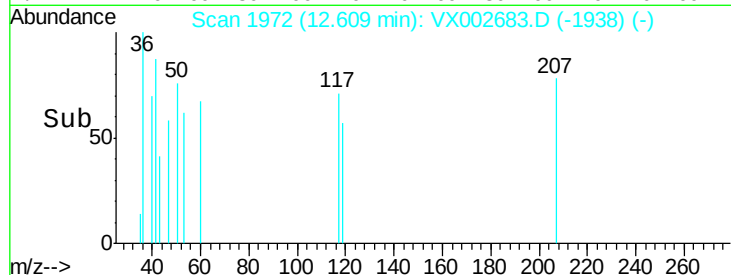
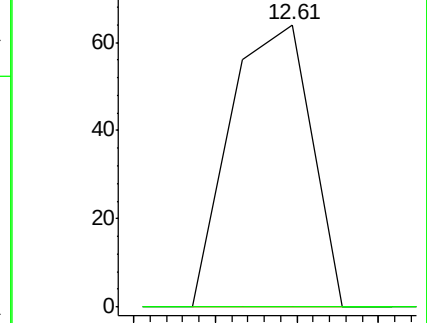
117 100

201 0.0 47.6 142.8#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#87

1,2-Dichlorobenzene

Concen: 0.14 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

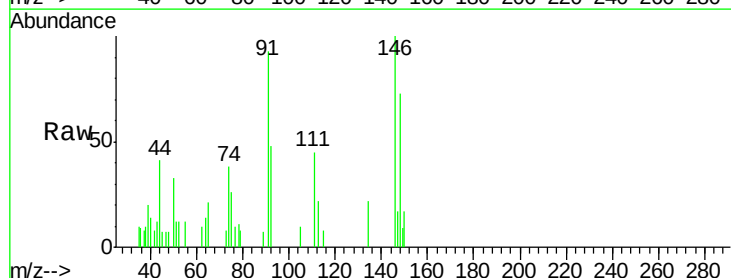
Tgt Ion:146 Resp: 906

Ion Ratio Lower Upper

146 100

111 49.7 20.0 59.9

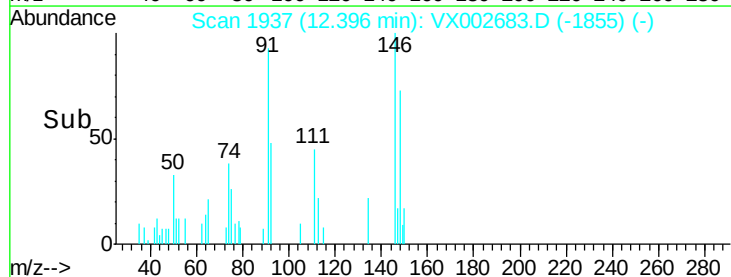
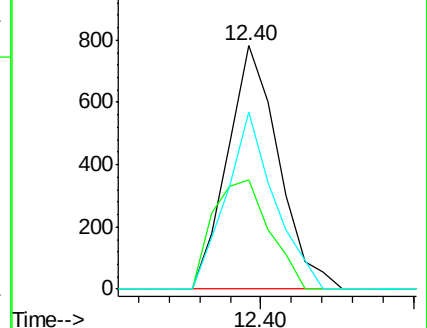
148 68.3 32.8 98.3

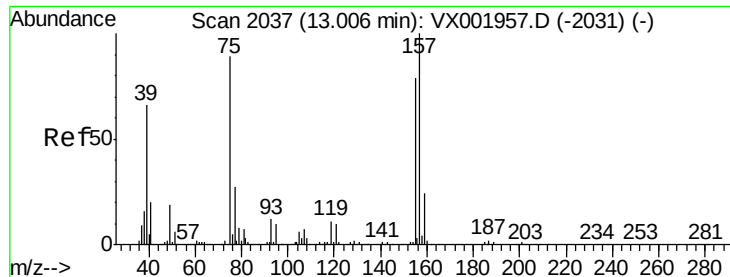


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.06 ug/l

RT: 13.09 min Scan# 2051

Delta R.T. 0.09 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

Instrument :

MSVOA\_X

ClientSampleId :

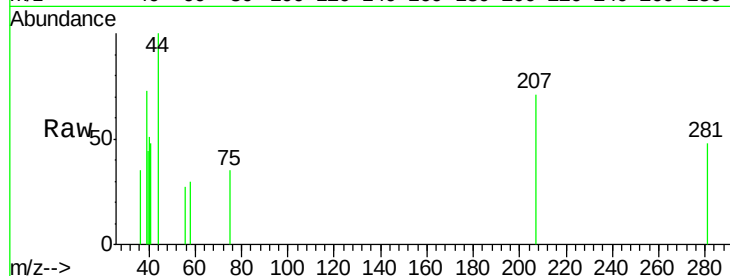
Tot Ion: 75 Resp: 46

Ion Ratio Lower Upper

75 100

155 0.0 73.1 109.7#

157 0.0 93.1 139.7#

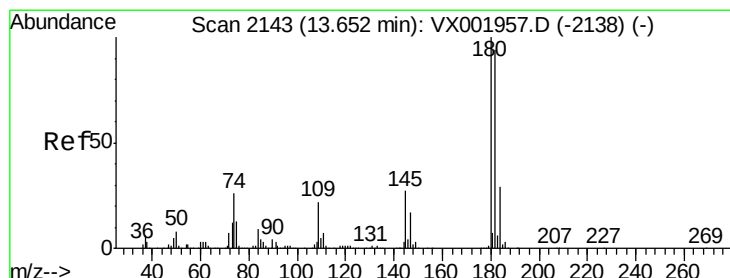
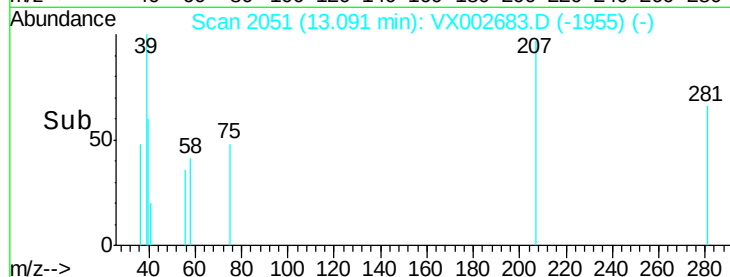


Abundance Ion 75.00 (74.70 to 75.70): VX001957.D (-2031) (-)

Ion 155.00 (154.70 to 155.70): VX001957.D (-2031) (-)

Ion 157.00 (156.70 to 157.70): VX001957.D (-2031) (-)

Time--> 13.07 13.08 13.09 13.10



#89

1,2,4-Trichlorobenzene

Concen: 0.23 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VX002683.D

Acq: 18 Jun 2018 16:48

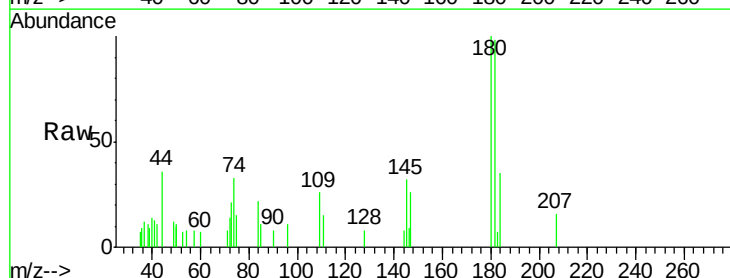
Tgt Ion:180 Resp: 1083

Ion Ratio Lower Upper

180 100

182 102.1 76.4 114.6

145 27.5 22.9 34.3

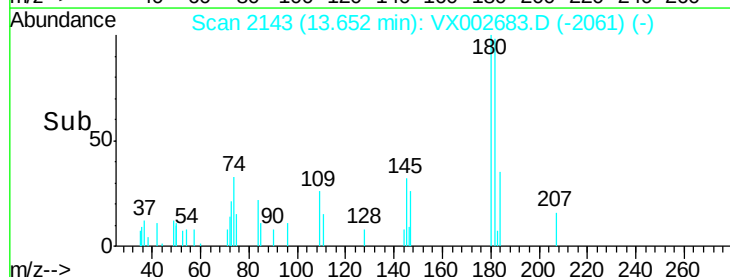


Abundance Ion 180.00 (179.70 to 180.70): VX001957.D (-2138) (-)

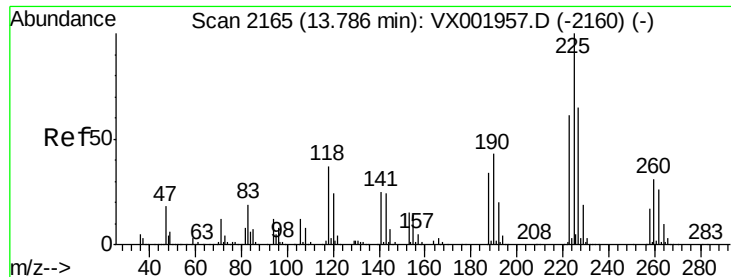
Ion 182.00 (181.70 to 182.70): VX001957.D (-2138) (-)

Ion 145.00 (144.70 to 145.70): VX001957.D (-2138) (-)

Time--> 13.65 13.70



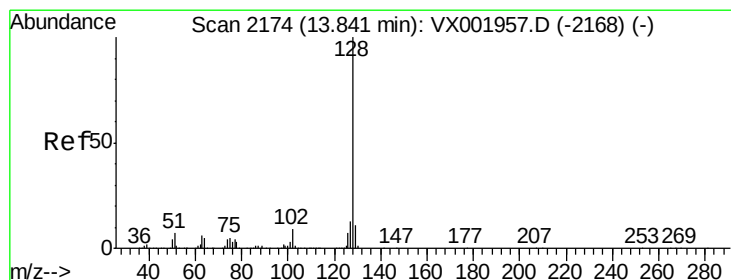
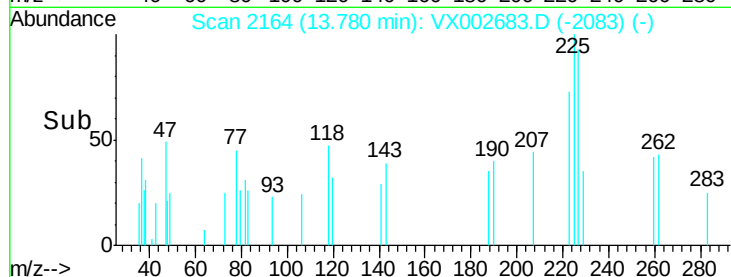
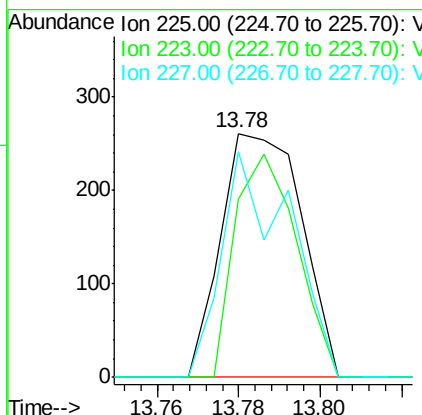
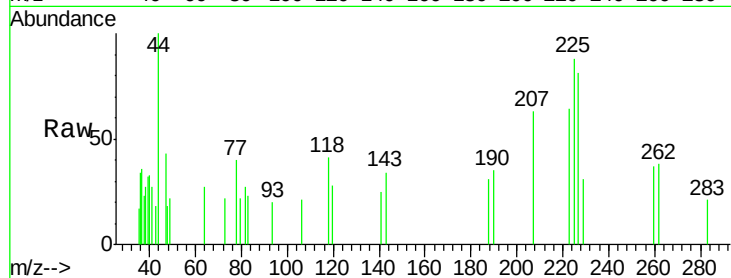




#90  
Hexachlorobutadiene  
Concen: 0.14 ug/l  
RT: 13.78 min Scan# 2164  
Delta R.T. -0.01 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

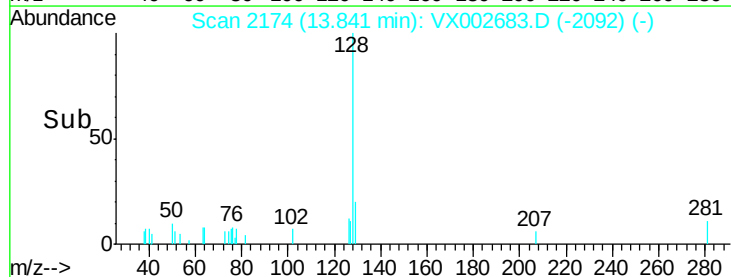
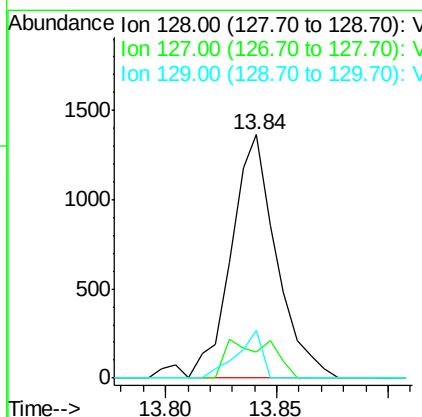
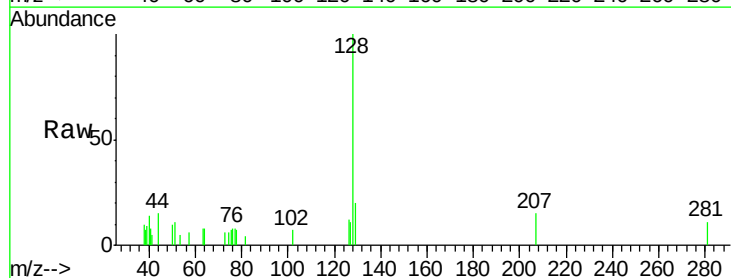
Instrument :  
MSVOA\_X  
ClientSampleId :

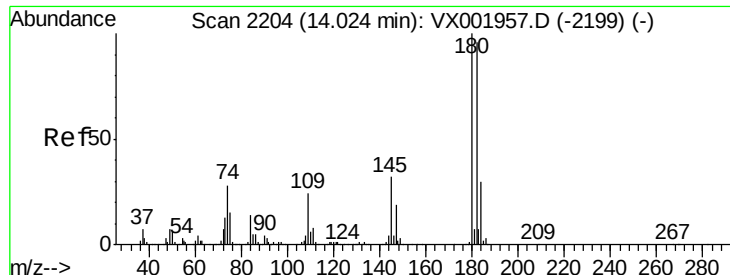
Tot Ion:225 Resp: 359  
Ion Ratio Lower Upper  
225 100  
223 70.2 0.0 122.4  
227 77.7 0.0 128.0



#91  
Naphthalene  
Concen: 0.15 ug/l  
RT: 13.84 min Scan# 2174  
Delta R.T. 0.00 min  
Lab File: VX002683.D  
Acq: 18 Jun 2018 16:48

Tgt Ion:128 Resp: 1922  
Ion Ratio Lower Upper  
128 100  
127 5.7 10.3 15.5#  
129 11.1 8.9 13.3

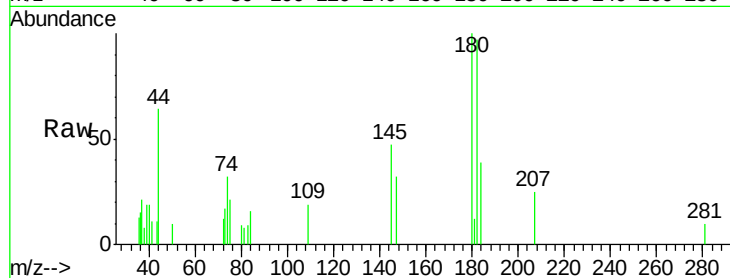




#92  
 1,2,3-Trichlorobenzene  
 Concen: 0.16 ug/l  
 RT: 14.02 min Scan# 2204  
 Delta R.T. 0.00 min  
 Lab File: VX002683.D  
 Acq: 18 Jun 2018 16:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion:180 Resp: 767  
 Ion Ratio Lower Upper  
 180 100  
 182 99.7 0.0 191.0  
 145 42.1 0.0 60.6



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

