

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\  
 Data File : VX002981.D  
 Acq On : 28 Jun 2018 13:28  
 Operator : JC/MD  
 Sample : VX0628WBL02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0628WBL02

Quant Time: Jun 29 05:32:59 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  | 52151    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.87  | 114  | 280951   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 250234   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|---------|----------|
| 27) 1,2-Dichloroethane-d4   |        | 6.07  | 65       | 120775   | 30.33 | ug/l    | 0.00     |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =     | 101.10% |          |
| 60) 4-Bromofluorobenzene    |        | 11.14 | 95       | 112335   | 27.18 | ug/l    | 0.00     |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =     | 90.60%  |          |
| 63) Toluene-d8              |        | 8.72  | 98       | 331299   | 30.31 | ug/l    | 0.00     |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =     | 101.03% |          |

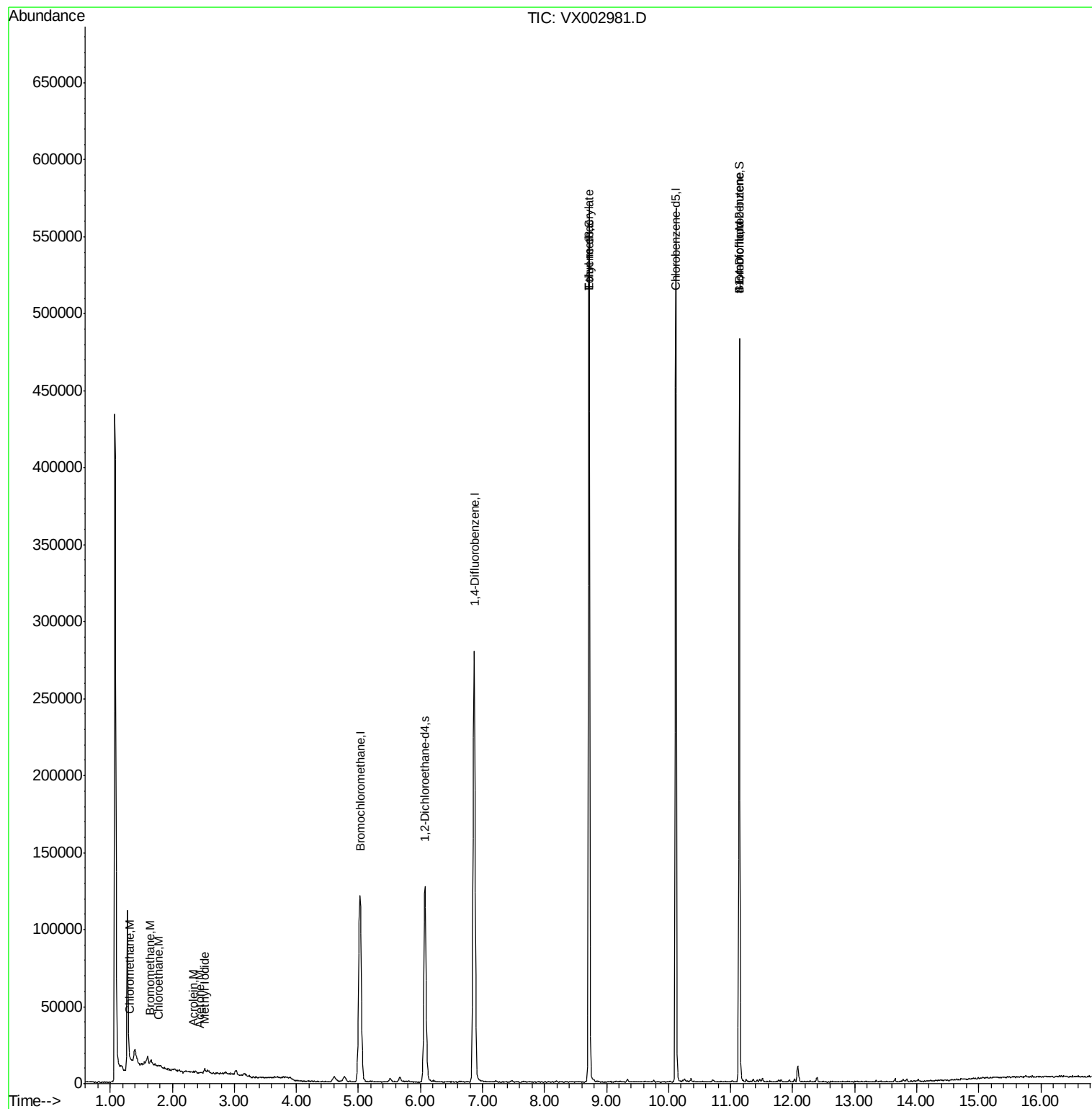
| Target Compounds            | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-----------------------------|-------|------|----------|-------|--------|--------|
| 3) Chloromethane            | 1.32  | 50   | 1069     | 0.40  | ug/l   | 98     |
| 5) Bromomethane             | 1.65  | 94   | 1678     | 0.95  | ug/l   | 98     |
| 6) Chloroethane             | 1.77  | 64   | 545      | 0.27  | ug/l # | 44     |
| 11) Methyl Iodide           | 2.52  | 142  | 3544     | 1.14  | ug/l   | 98     |
| 13) Acrolein                | 2.35  | 56   | 112      | 0.36  | ug/l   | 99     |
| 15) Acetone                 | 2.43  | 58   | 135      | 0.30  | ug/l # | 26     |
| 51) Ethyl methacrylate      | 8.72  | 69   | 922      | 0.20  | ug/l   | 87     |
| 56) Bromoform               | 11.14 | 173  | 1479     | 0.58  | ug/l # | 1      |
| 77) t-1,4-Dichloro-2-butene | 11.14 | 75   | 58841    | 49.78 | ug/l # | 11     |

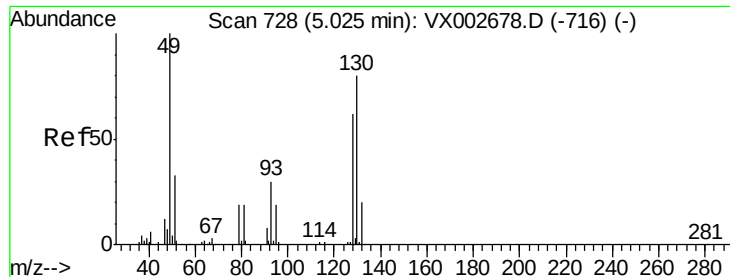
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062818\  
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ClientSampleId :  
VX0628WBL02

Quant Time: Jun 29 05:32:59 2018  
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002981.D

Acq: 28 Jun 2018 13:28

Instrument :

MSVOA\_X

ClientSampleId :

VX0628WBL02

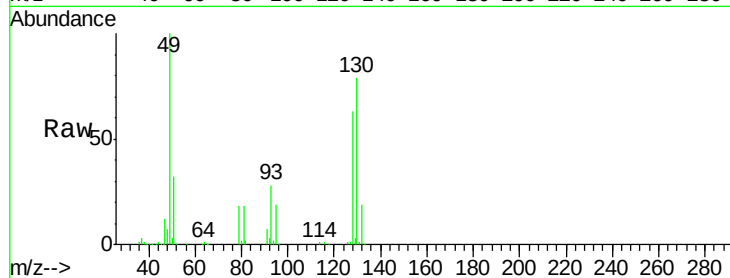
Tot Ion:128 Resp: 52151

Ion Ratio Lower Upper

128 100

49 157.4 0.0 423.0

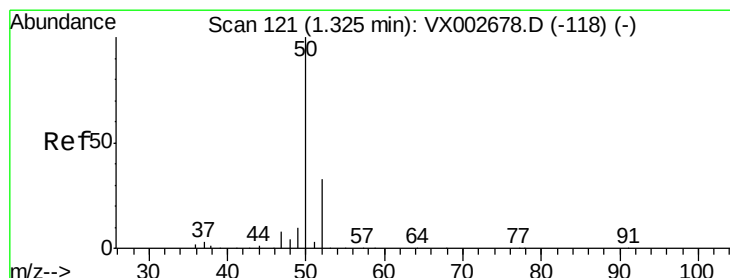
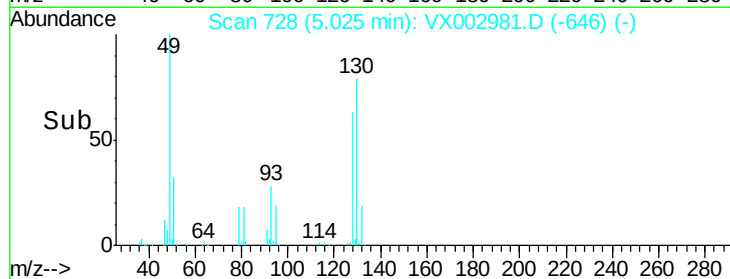
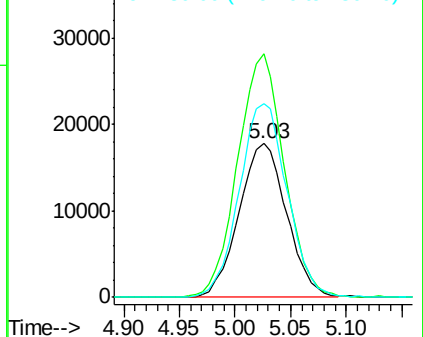
130 128.7 0.0 324.3



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



#3

Chloromethane

Concen: 0.40 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002981.D

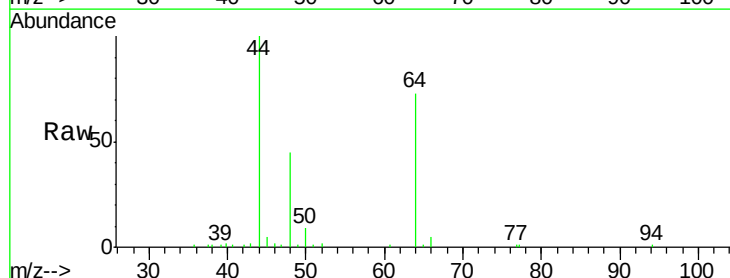
Acq: 28 Jun 2018 13:28

Tgt Ion: 50 Resp: 1069

Ion Ratio Lower Upper

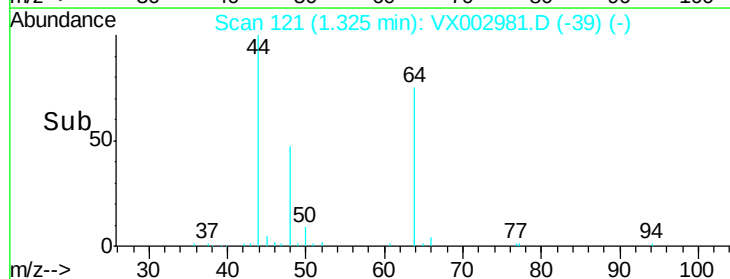
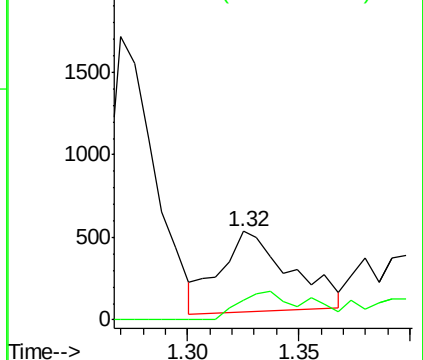
50 100

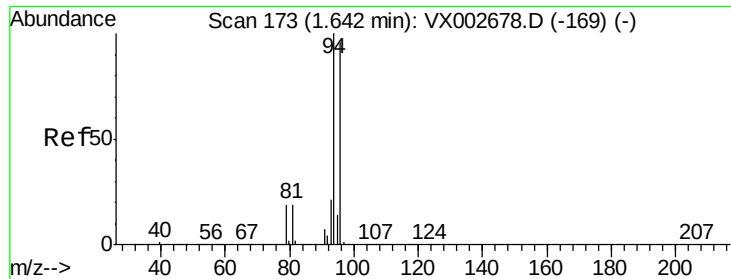
52 33.0 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.95 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002981.D

Acq: 28 Jun 2018 13:28

Instrument :

MSVOA\_X

ClientSampleId :

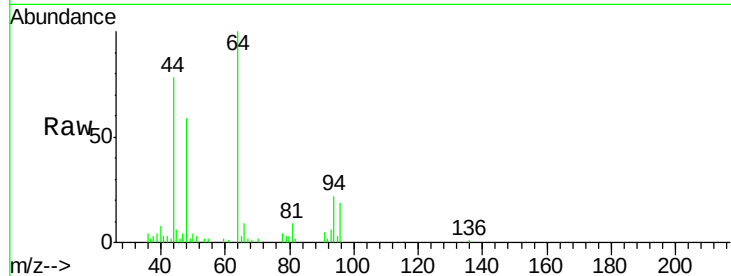
VX0628WBL02

Tot Ion: 94 Resp: 1678

Ion Ratio Lower Upper

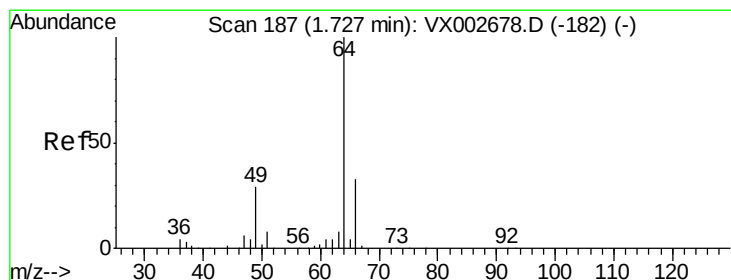
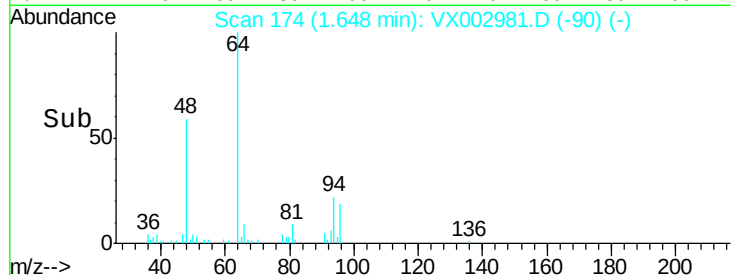
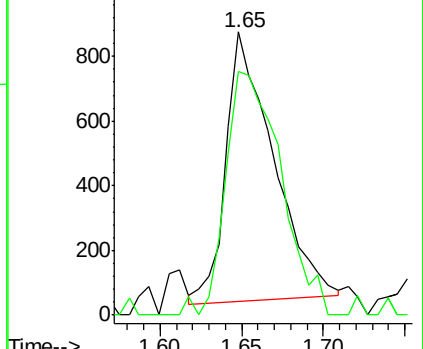
94 100

96 92.8 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: 0.27 ug/l

RT: 1.77 min Scan# 194

Delta R.T. 0.06 min

Lab File: VX002981.D

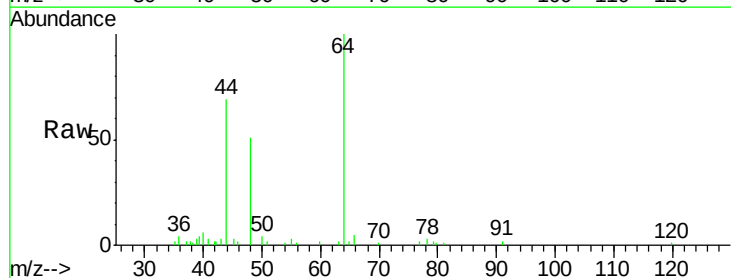
Acq: 28 Jun 2018 13:28

Tgt Ion: 64 Resp: 545

Ion Ratio Lower Upper

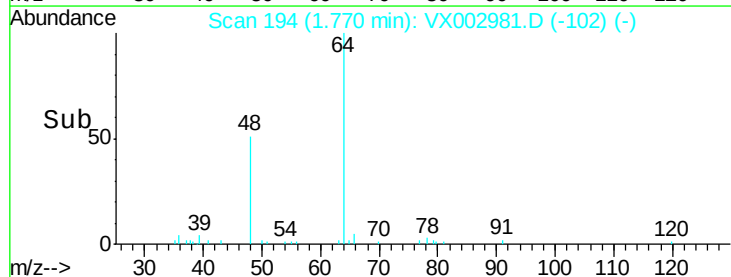
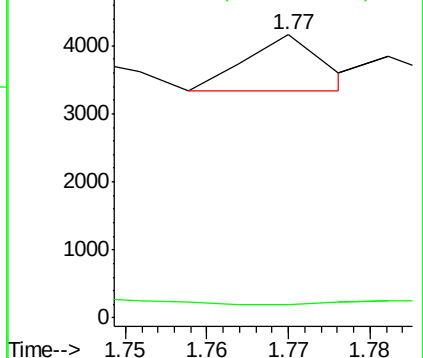
64 100

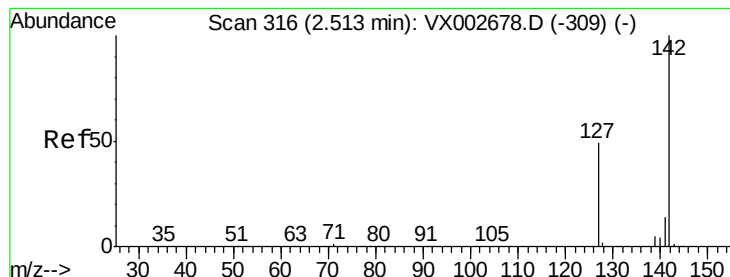
66 0.0 24.3 36.5#



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

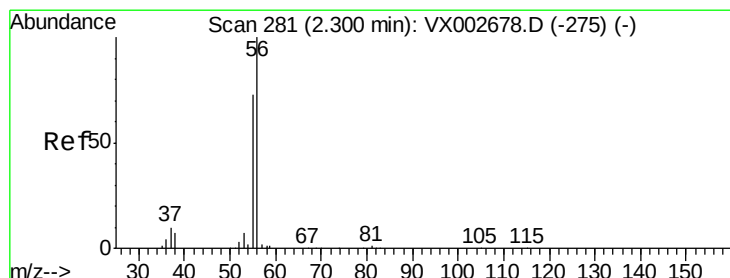
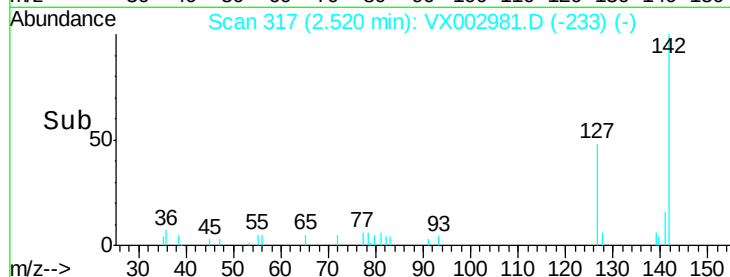
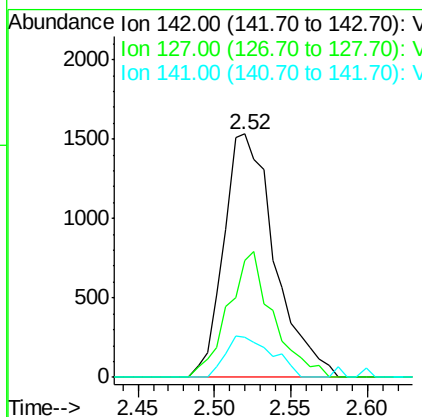
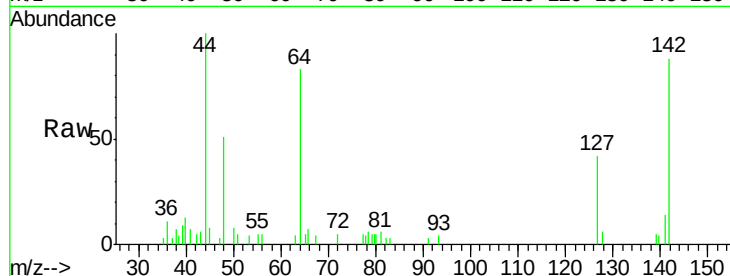




#11  
Methvl Iodide  
Concen: 1.14 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

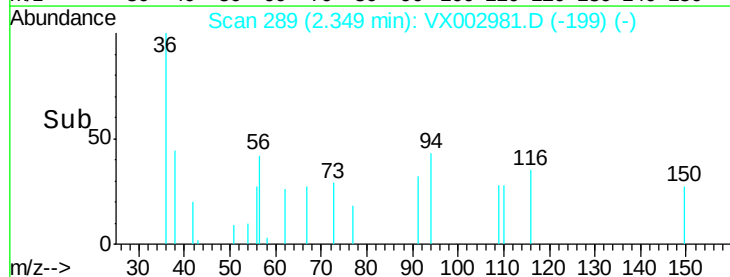
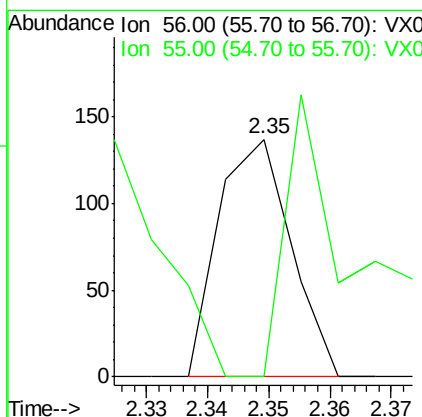
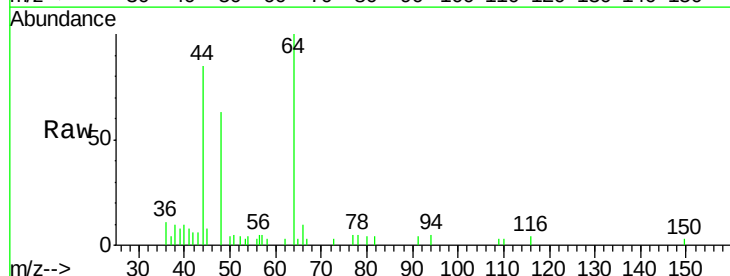
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0628WBL02

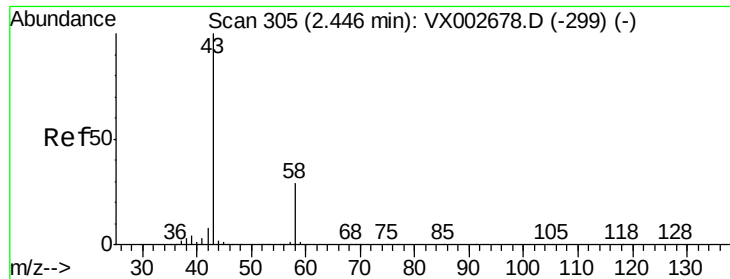
Tot Ion:142 Resp: 3544  
Ion Ratio Lower Upper  
142 100  
127 48.0 23.2 69.6  
141 14.1 7.4 22.2



#13  
Acrolein  
Concen: 0.36 ug/l  
RT: 2.35 min Scan# 289  
Delta R.T. 0.05 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

Tgt Ion: 56 Resp: 112  
Ion Ratio Lower Upper  
56 100  
55 70.5 57.3 85.9





#15

Acetone

Concen: 0.30 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.02 min

Lab File: VX002981.D

Acq: 28 Jun 2018 13:28

Instrument :

MSVOA\_X

ClientSampled :

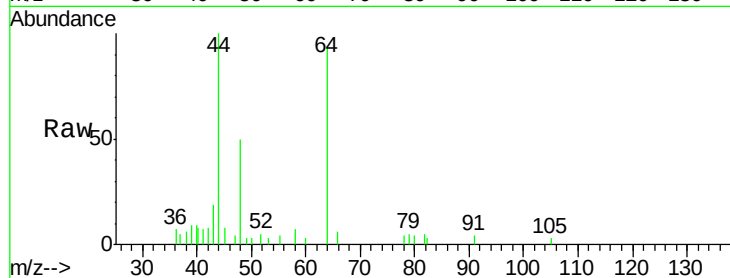
VX0628WBL02

Tot Ion: 58 Resp: 135

Ion Ratio Lower Upper

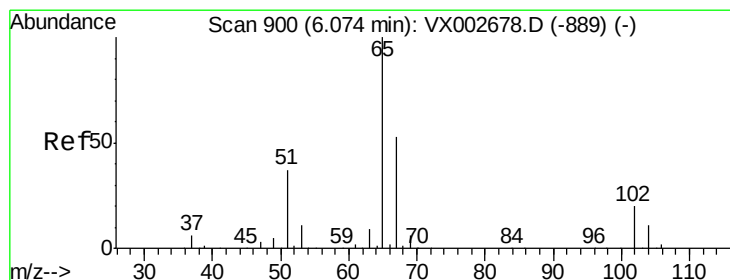
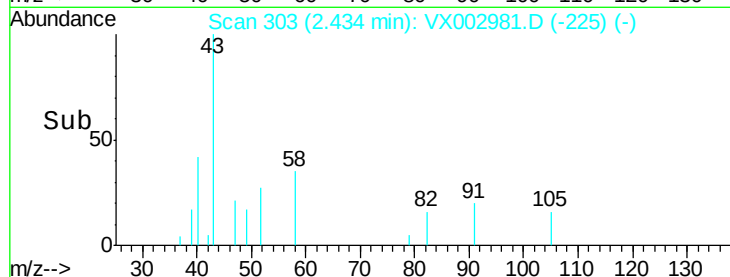
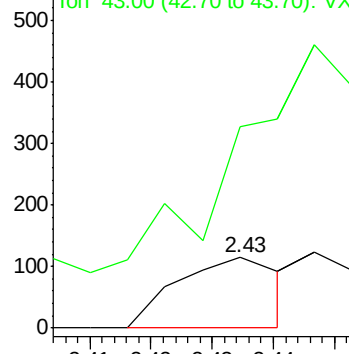
58 100

43 188.7 278.8 418.2#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.33 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002981.D

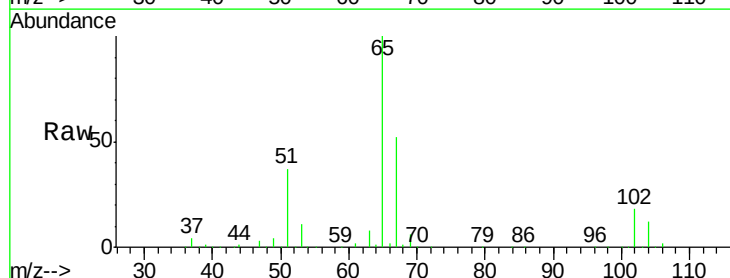
Acq: 28 Jun 2018 13:28

Tgt Ion: 65 Resp: 120775

Ion Ratio Lower Upper

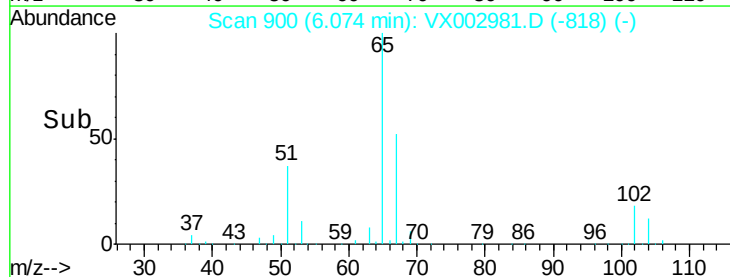
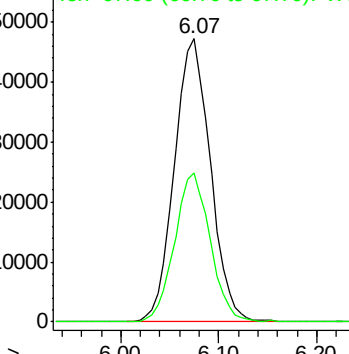
65 100

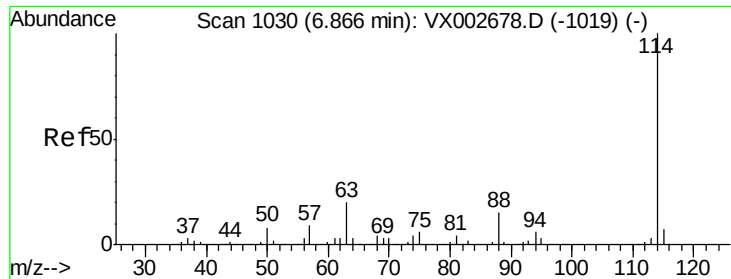
67 51.8 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

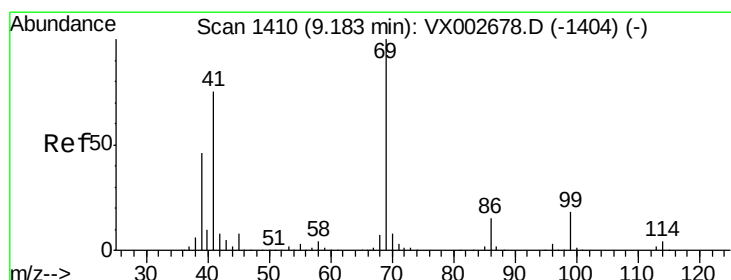
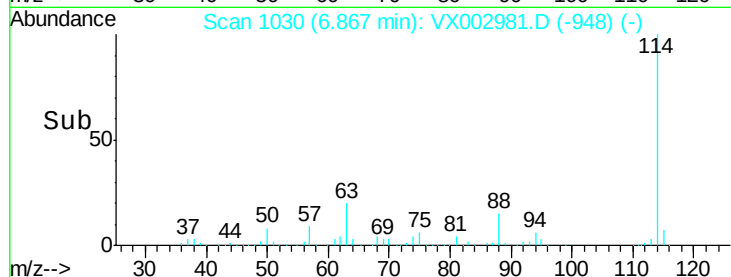
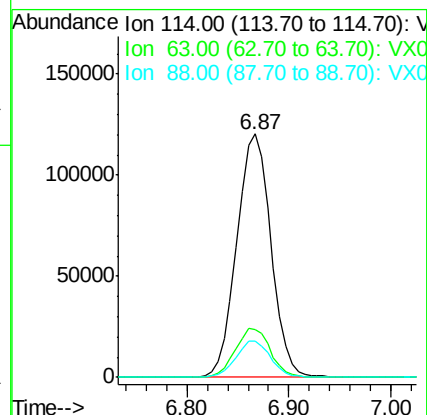
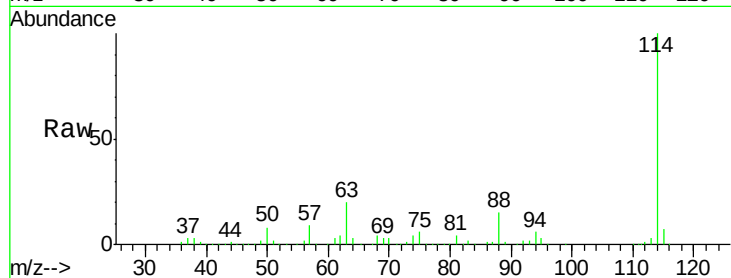




#28  
 1,4-Difluorobenzene  
 Concen: 30.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX002981.D  
 Acq: 28 Jun 2018 13:28

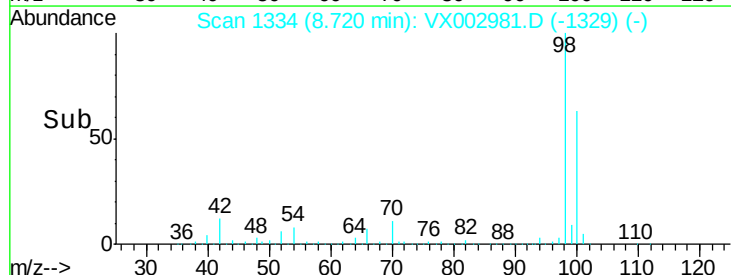
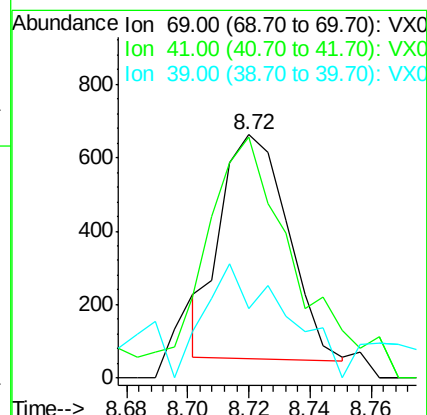
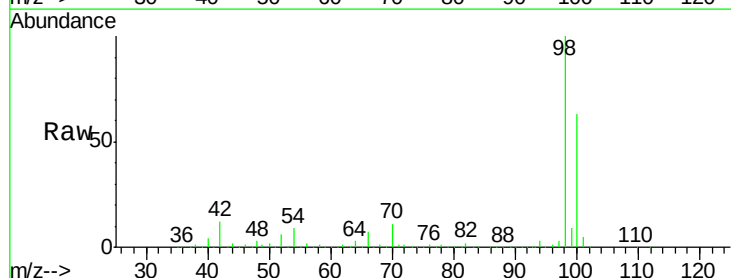
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0628WBL02

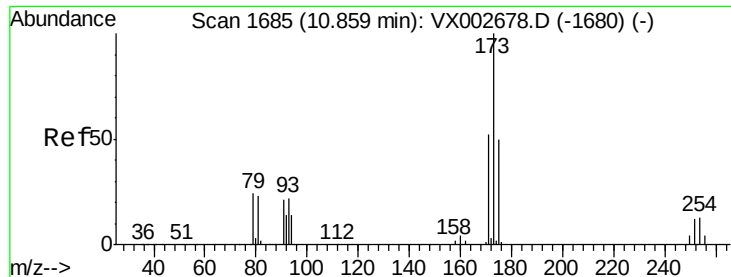
Tot Ion:114 Resp: 280951  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 17.1 25.7  
 88 15.1 12.6 19.0



#51  
 Ethyl methacrylate  
 Concen: 0.20 ug/l  
 RT: 8.72 min Scan# 1334  
 Delta R.T. -0.47 min  
 Lab File: VX002981.D  
 Acq: 28 Jun 2018 13:28

Tgt Ion: 69 Resp: 922  
 Ion Ratio Lower Upper  
 69 100  
 41 86.9 39.1 117.3  
 39 31.1 21.7 65.1

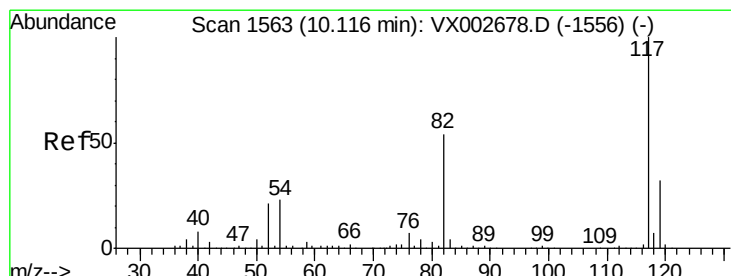
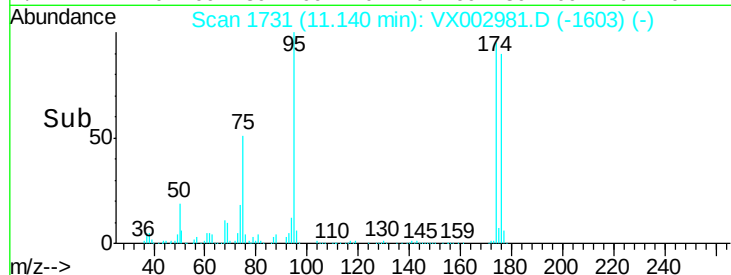
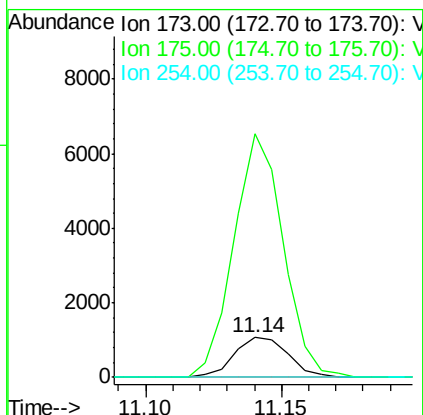
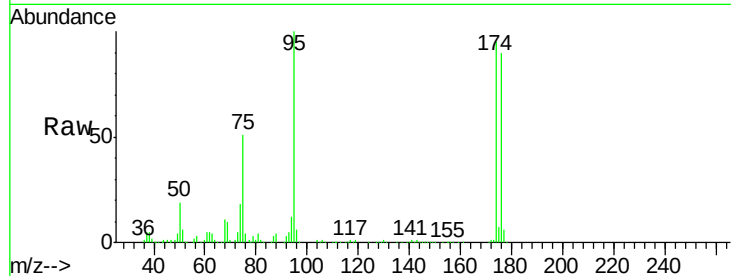




#56  
Bromoform  
Concen: 0.58 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.28 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

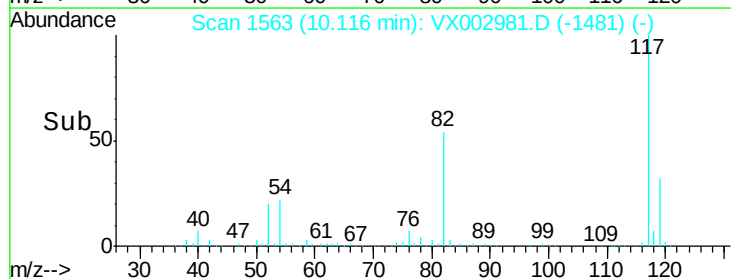
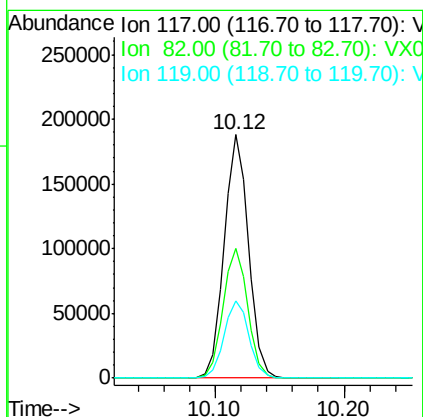
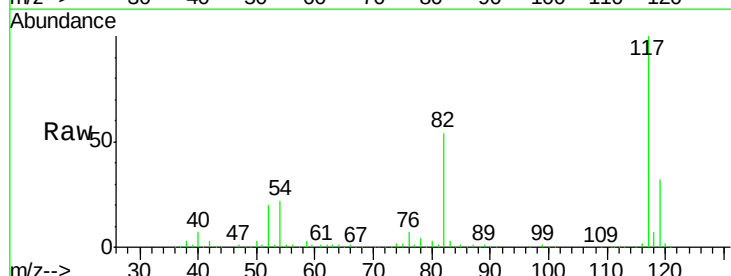
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0628WBL02

Tot Ion:173 Resp: 1479  
Ion Ratio Lower Upper  
173 100  
175 557.5 39.0 58.4#  
254 0.0 9.6 14.4#

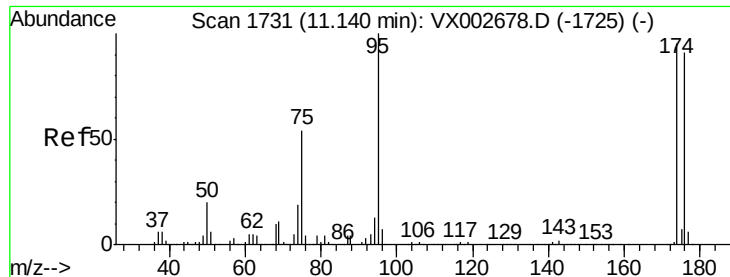


#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

Tgt Ion:117 Resp: 250234  
Ion Ratio Lower Upper  
117 100  
82 54.0 44.3 66.5  
119 32.4 25.7 38.5



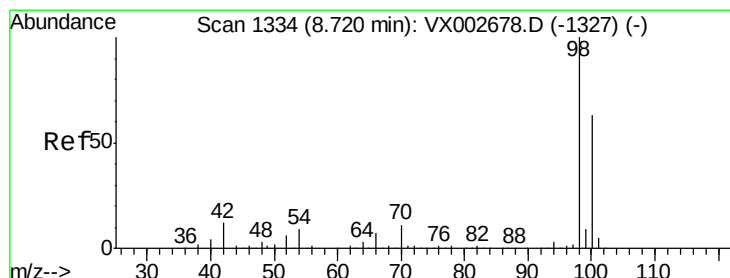
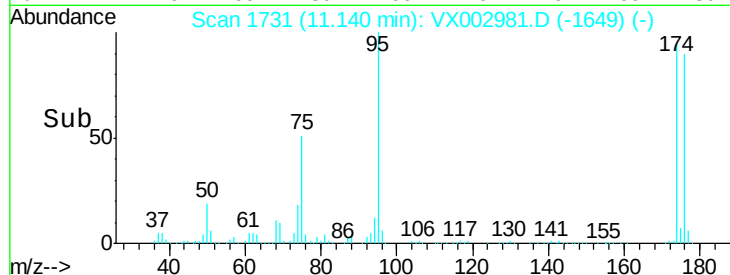
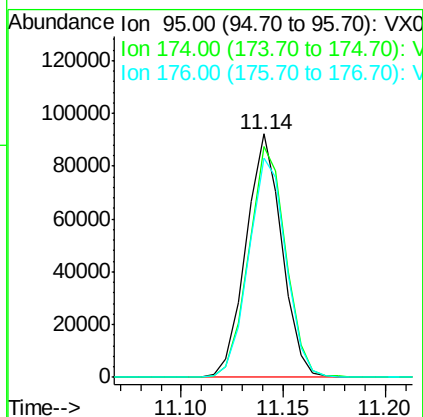
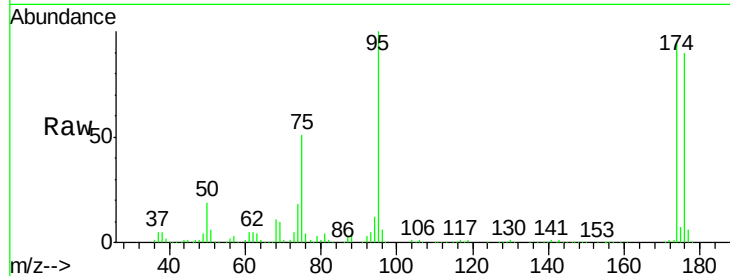




#60  
4-Bromofluorobenzene  
Concen: 27.18 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

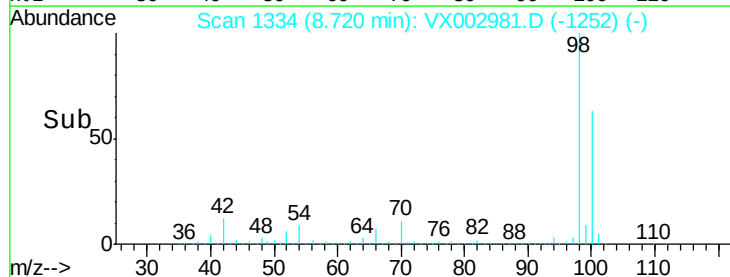
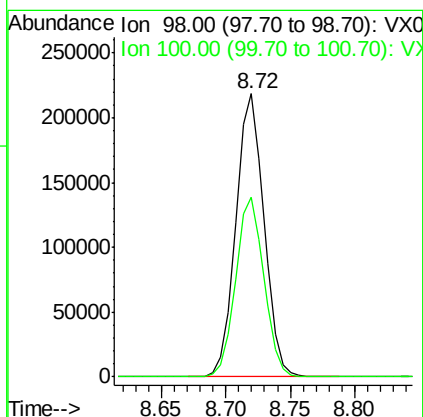
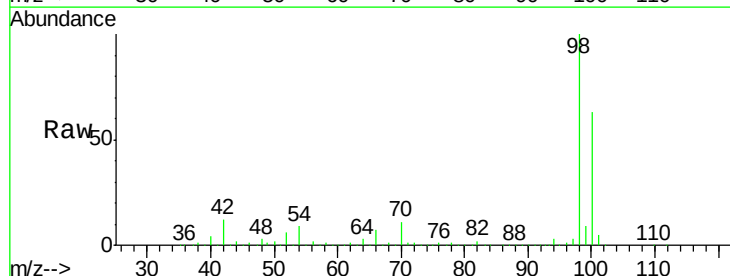
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0628WBL02

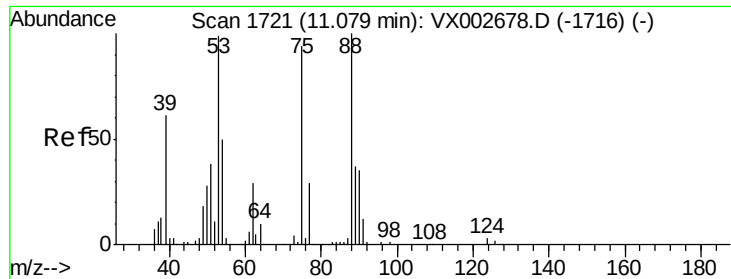
Tot Ion: 95 Resp: 112335  
Ion Ratio Lower Upper  
95 100  
174 97.9 71.8 107.6  
176 94.2 70.1 105.1



#63  
Toluene-d8  
Concen: 30.31 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. 0.00 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

Tgt Ion: 98 Resp: 331299  
Ion Ratio Lower Upper  
98 100  
100 63.5 50.8 76.2

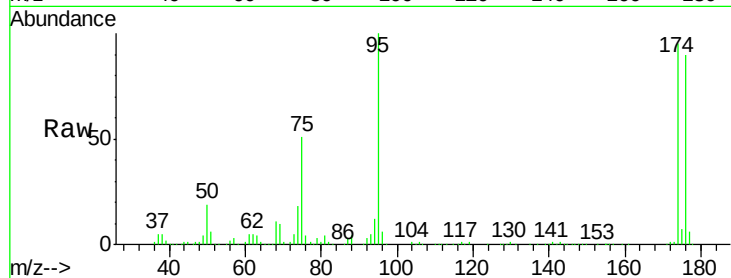




#77  
t-1,4-Dichloro-2-butene  
Concen: 49.78 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.06 min  
Lab File: VX002981.D  
Acq: 28 Jun 2018 13:28

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0628WBL02

Tot Ion: 75 Resp: 58841  
Ion Ratio Lower Upper  
75 100  
53 0.1 48.3 144.9#  
89 0.0 21.8 65.4#



Abundance Ion 75.00 (74.70 to 75.70): VX0  
Ion 53.00 (52.70 to 53.70): VX0  
Ion 89.00 (88.70 to 89.70): VX0

