

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\  
 Data File : VL031861.D  
 Acq On : 12 Apr 2018 10:58  
 Operator : SY/AP  
 Sample : QC032918 CAN 10442  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 QC032918 CAN 10442

Quant Time: Apr 14 01:53:14 2018  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Apr 13 16:50:02 2018  
 QLast Update : Fri Apr 13 16:50:02 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.88  | 49   | 1362644  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.42  | 114  | 2705276  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.39 | 117  | 2595499  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.72  | 95    | 2093625  | 10.03    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.30% |

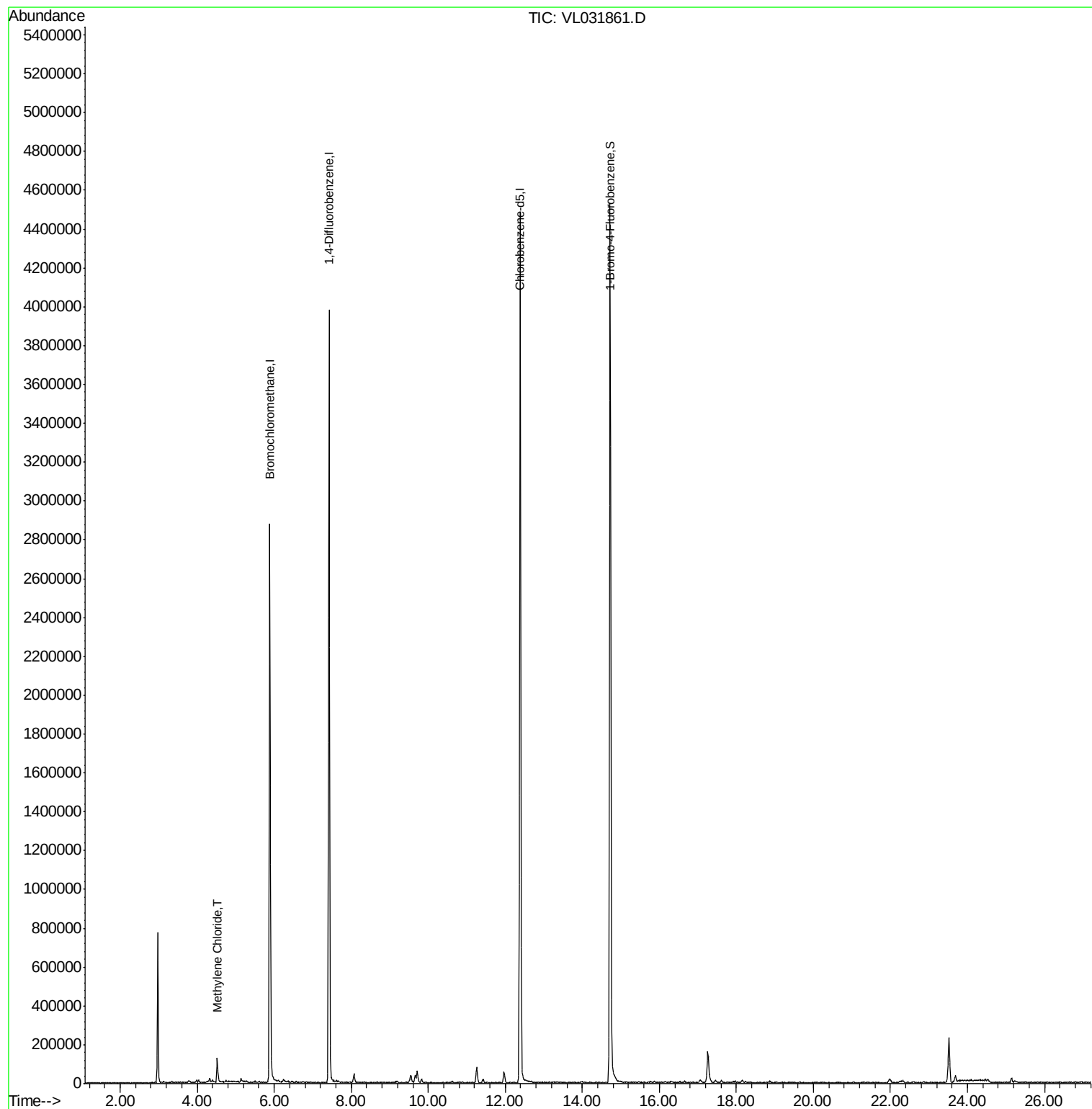
| Target Compounds       | R.T. | QIon | Response | Conc  | Units | Ovalue |
|------------------------|------|------|----------|-------|-------|--------|
| 20) Methylene Chloride | 4.52 | 84   | 42502    | 0.556 | ppbv  | # 78   |

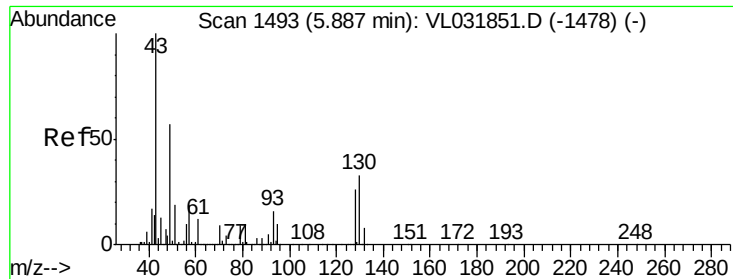
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QC032918 CAN 10442

Quant Time: Apr 14 01:53:14 2018  
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Apr 13 16:50:02 2018  
QLast Update : Fri Apr 13 16:50:02 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL031861.D

Acq: 12 Apr 2018 10:58

Instrument :

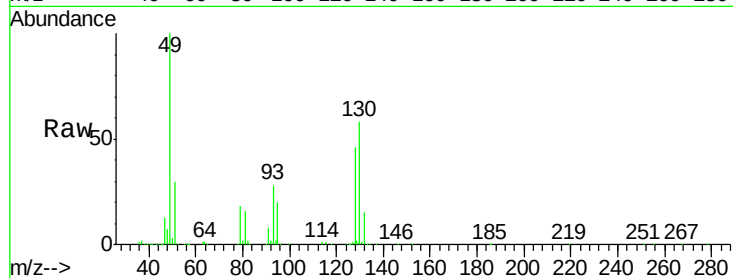
MSVOA\_L

ClientSampleId :

QC032918 CAN 10442

Tot Ion: 49 Resp: 1362644

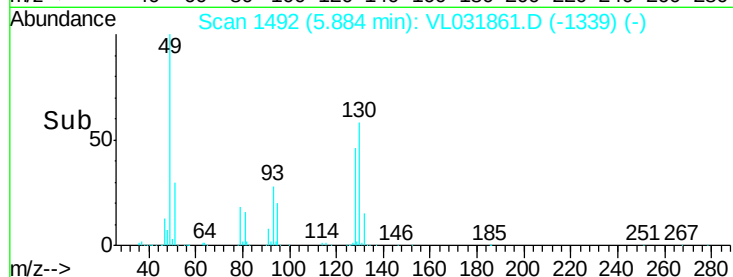
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 48.1  | 23.9  | 71.7  |
| 130 | 61.4  | 30.9  | 92.7  |



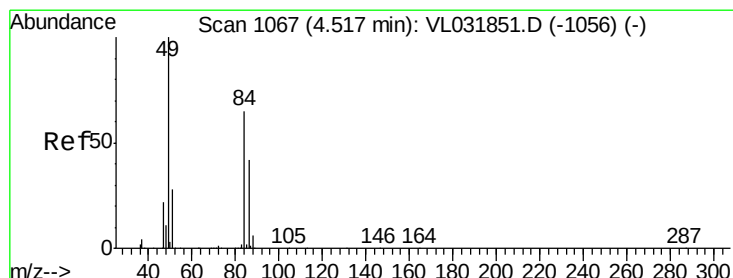
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#20

Methylene Chloride

Concen: 0.556 ppbv

RT: 4.52 min Scan# 1068

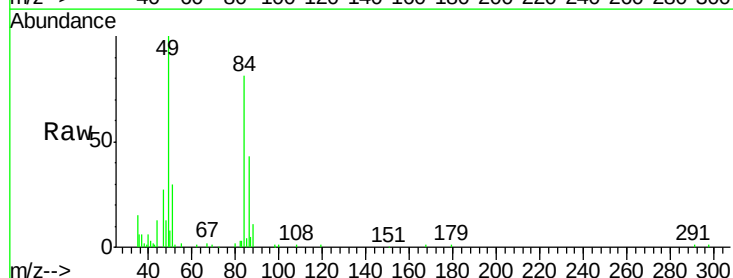
Delta R.T. -0.00 min

Lab File: VL031861.D

Acq: 12 Apr 2018 10:58

Tgt Ion: 84 Resp: 42502

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 122.5 | 125.6 | 188.4# |
| 51  | 36.6  | 36.4  | 54.6   |
| 86  | 53.3  | 53.7  | 80.5#  |

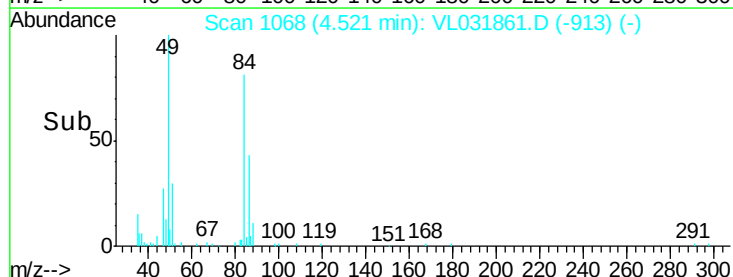


Abundance Ion 84.00 (83.70 to 84.70): VL0

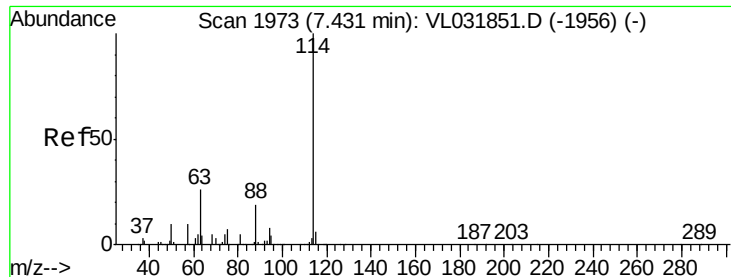
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



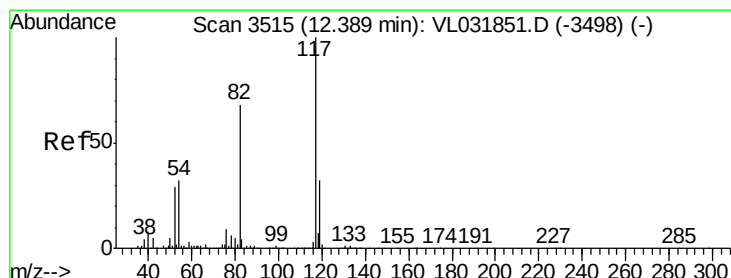
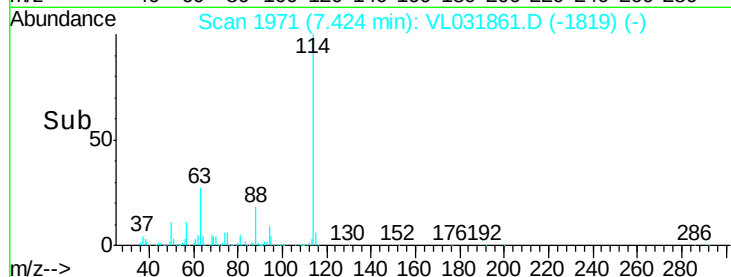
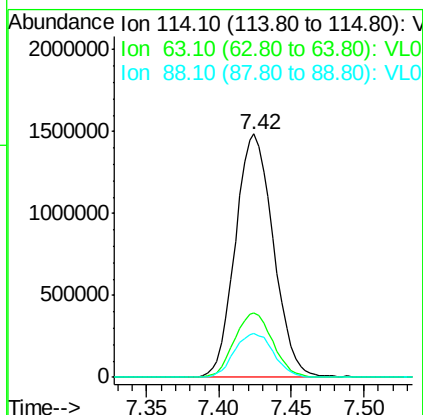
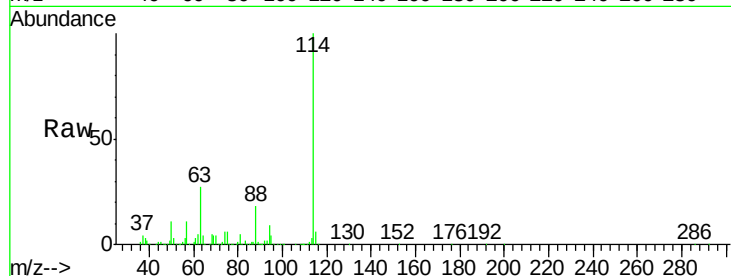
Time-->



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.42 min Scan# 1971  
 Delta R.T. -0.01 min  
 Lab File: VL031861.D  
 Acq: 12 Apr 2018 10:58

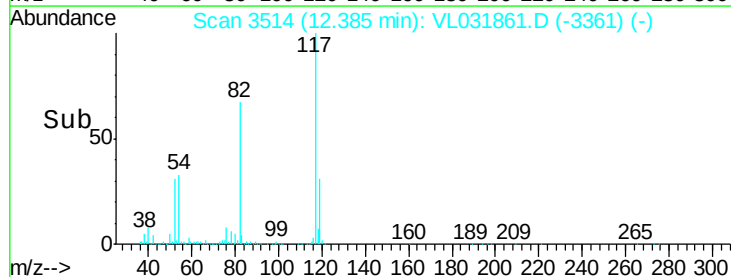
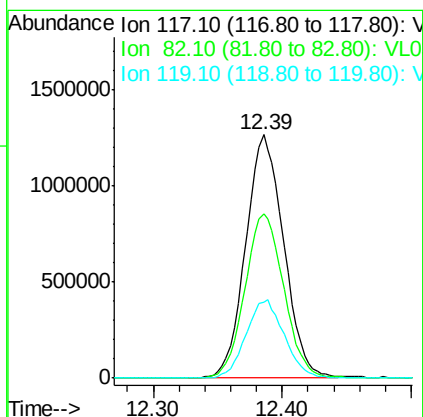
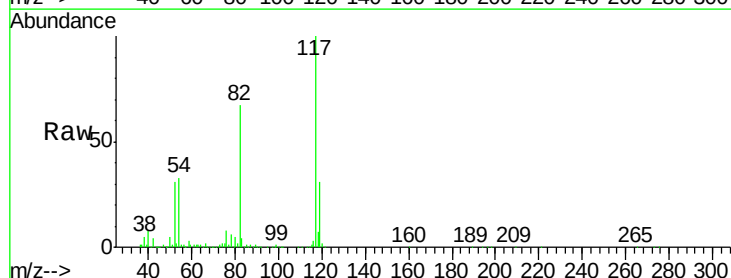
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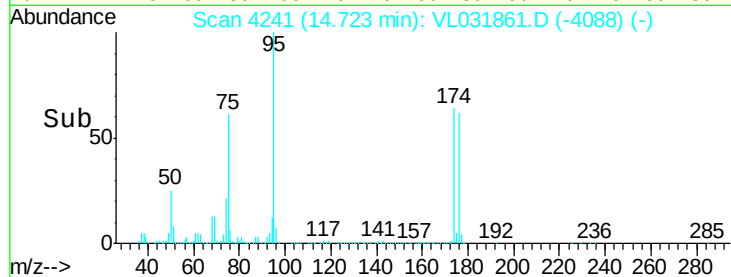
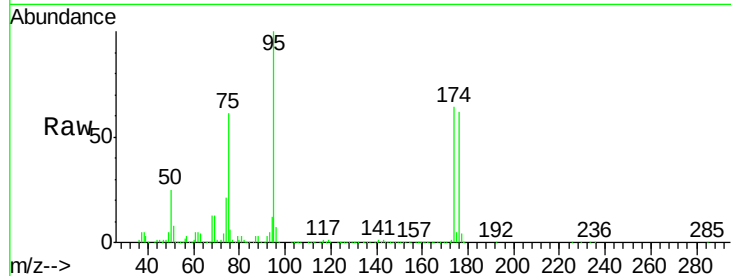
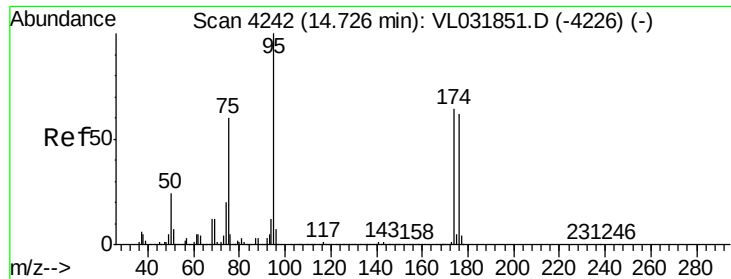
Tot Ion:114 Resp: 2705276  
 Ion Ratio Lower Upper  
 114 100  
 63 26.9 21.8 32.6  
 88 18.7 14.6 22.0



#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.39 min Scan# 3514  
 Delta R.T. -0.01 min  
 Lab File: VL031861.D  
 Acq: 12 Apr 2018 10:58

Tgt Ion:117 Resp: 2595499  
 Ion Ratio Lower Upper  
 117 100  
 82 69.2 54.6 81.8  
 119 32.5 26.0 39.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.032 ppbv

RT: 14.72 min Scan# 4241

Delta R.T. -0.01 min

Lab File: VL031861.D

Acq: 12 Apr 2018 10:58

Instrument :

MSVOA\_L

ClientSampleId :

QC032918 CAN 10442

Tot Ion: 95 Resp: 2093625

Ion Ratio Lower Upper

95 100

174 65.4 52.3 78.5

175 4.7 3.9 5.9

