



**VERMONT FORENSIC LABORATORY**

PO BOX 47  
WATERBURY, VERMONT 05676-0047  
TEL: 802-244-8788  
FAX: 802-241-5557  
<http://vfl.vermont.gov>

**DATAMASTER TECHNICAL SUPPORT INQUIRY**

Agency/Site: UVM PD DataMaster Serial #: 104609

Date: 8/28/15 Requestor: Robert Driscoll

Instrument Supervisor: Matt Collins Phone #: (802) 656-3473

Taken By: Robert Driscoll

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Problem: Flow rate out of range during APM

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Laboratory Response: Alcohol program staff noticed the problem and will repair.

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Work Performed: Installed an adjustable flow rate valve and set the volume to 1.5L. Reran APM and the flow rate is within the manufacturer's specifications.

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On Site     In-house    Attachments: 4 pages

Performed By: Robert Driscoll RD Date: 8/31/15

Final Review: \_\_\_\_\_ Date: \_\_\_\_\_

*Page 1 of 5 RD*

# ANNUAL PREVENTATIVE MAINTENANCE



DataMaster DMT: 104609  
 Location: UVM PD  
 Calibration Date: 07/31/2014  
 Certification Date: 07/31/2014  
 Installation Date: 07/31/2014  
 APM Date: 08/28/2015  
 Performed by: ROBERT DRISCOLL

## Diagnostic Results

### VERSIONS

DMT: 2.00  
 PIC: 2.05  
 Modem: 2.6  
 Questions: 2.1

### TEMPERATURES

Sample Chamber = 48.7°C  
 Breath Tube = 44.9°C  
 Digital Sim = 34.2°C

### SETTINGS

Lamp Voltage = 1.75 V  
 Cooler Voltage = 1.80 V  
 Bias Voltage = 80 V  
 Chopper Freq = 535 Hz

### PUMP INFO

Flow Rate = 5.020 L/M

### DETECTOR INFO

| PUMP    | ON     | OFF    |
|---------|--------|--------|
| MAX (V) | 0.1596 | 0.1618 |
| MIN (V) | 0.1575 | 0.1608 |

### FILTER INFO

| Filter   | Value | Zero        |
|----------|-------|-------------|
| Filter 1 | 0.161 | Zero = true |
| Filter 2 | 0.484 | Zero = true |
| Filter 3 | 0.135 | Zero = true |

### CALIBRATION CHECK

Xq = 0.080 0.98%

**APM PASSED**

## Simulator Vapor Test

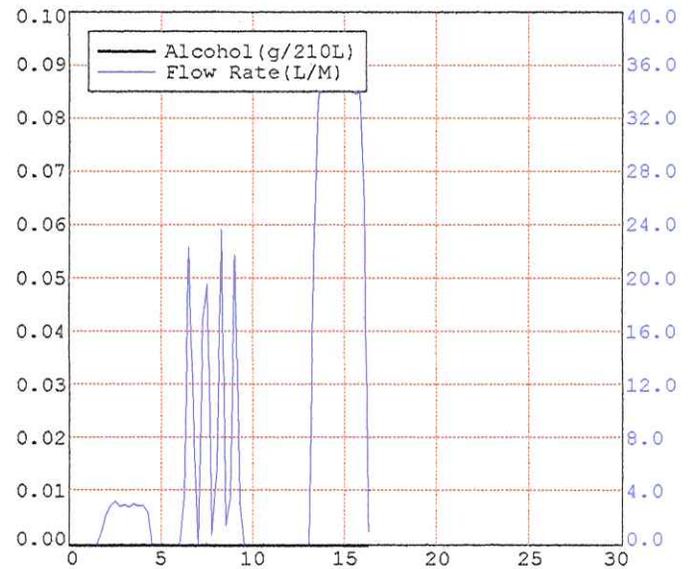
Concentration = 0.099 g/210L  
 Lot # = 15-05-100  
 Range = 0.094 - 0.104  
 Simulator Vapor = 0.094 g/210L

## RF Detection Test

Passed

## Sample Acceptance Test

Passed



*NIST Thermometer s/n 111814517 34.6°C RCD 8/22/15*

Performed by *RD*

Date 08/28/2015

Reviewed by *AB*

Date 9/2/15

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APM Date: 08/28/2015  
Performed by: ROBERT DRISCOLL

## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.05  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 49.9°C  
Breath Tube = 45.4°C  
Digital Sim = 34.1°C

### SETTINGS

Lamp Voltage = 1.74 V  
Cooler Voltage = 1.80 V  
Bias Voltage = 80 V  
Chopper Freq = 527 Hz

### PUMP INFO

Flow Rate = 5.121 L/M

### DETECTOR INFO

| PUMP    | ON     | OFF    |
|---------|--------|--------|
| MAX (V) | 0.1571 | 0.1608 |
| MIN (V) | 0.1555 | 0.1594 |

### FILTER INFO

|          |       |             |
|----------|-------|-------------|
| Filter 1 | 0.160 | Zero = true |
| Filter 2 | 0.483 | Zero = true |
| Filter 3 | 0.125 | Zero = true |

### CALIBRATION CHECK

Xq = 0.079 0.22%

## Simulator Vapor Test

Concentration = 0.099 g/210L  
Lot # = 15-05-100  
Range = 0.094 - 0.104  
Simulator Vapor = 0.093 g/210L  
Simulator out of range

*RD 8/28/15*

APM FAILED

Performed by

*RD*

Date

08/28/2015

Reviewed by

\_\_\_\_\_

Date

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# ANNUAL PREVENTATIVE MAINTENANCE



DataMaster DMT: 104609  
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Calibration Date: 07/31/2014  
Certification Date: 07/31/2014  
Installation Date: 07/31/2014  
APM Date: 08/28/2015  
Performed by: ROBERT DRISCOLL

## Diagnostic Results

### VERSIONS

DMT: 2.00  
PIC: 2.05  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 49.9°C  
Breath Tube = 43.9°C  
Digital Sim = 34.2°C

### SETTINGS

Lamp Voltage = 1.74 V  
Cooler Voltage = 1.80 V  
Bias Voltage = 80 V  
Chopper Freq = 528 Hz

### PUMP INFO

Flow Rate = 6.670 L/M

*RCO 8/28/15*

### DETECTOR INFO

| PUMP    | ON     | OFF    |
|---------|--------|--------|
| MAX (V) | 0.2573 | 0.2600 |
| MIN (V) | 0.2553 | 0.2583 |

### FILTER INFO

|          |       |             |
|----------|-------|-------------|
| Filter 1 | 0.258 | Zero = true |
| Filter 2 | 0.576 | Zero = true |
| Filter 3 | 0.216 | Zero = true |

### CALIBRATION CHECK

Xq = 0.079 0.65%

## APM FAILED

Performed by

*RCO*

Date

08/28/2015

Reviewed by

\_\_\_\_\_

Date

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# ANNUAL PREVENTATIVE MAINTENANCE



DataMaster DMT: 104609  
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Calibration Date: 07/31/2014  
Certification Date: 07/31/2014  
Installation Date: 07/31/2014  
APM Date: 08/28/2015  
Performed by: ROBERT DRISCOLL

## Diagnostic Results

### VERSIONS

DMT: 2.00  
PIC: 2.05  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 49.2°C  
Breath Tube = 42.5°C  
Digital Sim = 34.2°C

### SETTINGS

Lamp Voltage = 1.75 V  
Cooler Voltage = 1.80 V  
Bias Voltage = 80 V  
Chopper Freq = 527 Hz

### PUMP INFO

Flow Rate = 6.560 L/M *ROD 8/28/15*

### DETECTOR INFO

| PUMP    | ON     | OFF    |
|---------|--------|--------|
| MAX (V) | 0.2734 | 0.2754 |
| MIN (V) | 0.2711 | 0.2734 |

### FILTER INFO

|          |       |             |
|----------|-------|-------------|
| Filter 1 | 0.274 | Zero = true |
| Filter 2 | 0.590 | Zero = true |
| Filter 3 | 0.230 | Zero = true |

### CALIBRATION CHECK

Xq = 0.078 0.76%

## APM FAILED

Performed by

*ROD*

Date

08/28/2015

Reviewed by

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Date

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