

# ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100150  
Location: BRISTOL PD  
Calibration Date: 08/04/2015  
Certification Date: 08/04/2015  
Installation Date: 08/04/2015  
RPC Date: 10/20/2015  
Supervisor Name: KEVIN E GIBBS

## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 46.7°C  
Breath Tube = 46.0°C  
Digital Sim = 33.7°C

### SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 545 Hz

### PUMP INFO

Flow Rate = 6.020 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1356	0.1380
MIN(V)	0.1339	0.1368

### FILTER INFO

Filter	Value	Zero
Filter 1	0.138	Zero = true
Filter 2	0.860	Zero = true
Filter 3	0.861	Zero = true

### CALIBRATION CHECK

Xq = 0.081 1.74%

Routine Performance Check Passed

## Accuracy and Precision Check

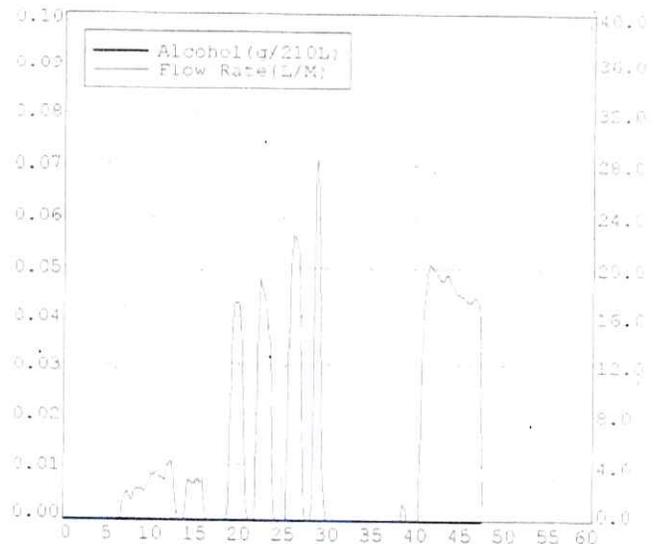
Concentration	- 0.099 g/210L
Lot #	- 15-09-100
Range	- 0.094 - 0.104
Average	- 0.100 g/210L
Std Dev	- 0.0005

## RF Detection Test

Passed

## Sample Acceptance Test

Passed



Performed by Kevin E Gibbs

Date 10/20/2015

Reviewed by [Signature]

Date 10/21/15

DMT Serial Number #100150

Page 1 of 1

10/20/2015 1:53 PM

## Driscoll, Rob

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**From:** Gibbs, Kevin  
**Sent:** Tuesday, October 20, 2015 2:07 PM  
**To:** Driscoll, Rob  
**Subject:** RPC Bristol  
**Attachments:** scan.pdf

Completed after multiple efforts. Seems the simulator was very slow to heat up and I had that same issue with the fit of the jar / o-ring.

Chief Kevin E. Gibbs  
Bristol Police Department  
P.O. Box 249 / 72 Munsill Ave, Suite 603 Bristol, VT 05443 Office (802)453-2533 Fax (802)453-6868 E-Mail  
[kevin.gibbs@vermont.gov](mailto:kevin.gibbs@vermont.gov)

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**From:** [bristolpolice@icloud.com](mailto:bristolpolice@icloud.com) [bristolpolice@icloud.com]  
**Sent:** Tuesday, October 20, 2015 1:55 PM  
**To:** Gibbs, Kevin  
**Subject:**

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 47.7°C  
Digital Sim = 33.6°C

### SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

### PUMP INFO

Flow Rate = 5.980 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1260	0.1291
MIN(V)	0.1244	0.1272

### FILTER INFO

Filter 1	0.128	Zero = true
Filter 2	0.852	Zero = true
Filter 3	0.848	Zero = true

### CALIBRATION CHECK

Xq = 0.081 1.41%

**Routine Performance Check Failed**

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev

---

Performed by

*Kevin E Gibbs*

Date

10/20/2015

Reviewed by

Date

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 48.9°C  
Breath Tube = 47.3°C  
Digital Sim = 33.6°C

### SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

### PUMP INFO

Flow Rate = 6.088 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.1283	0.1309
MIN(V)	0.1270	0.1297

### FILTER INFO

Filter 1	0.129	Zero = true
Filter 2	0.855	Zero = true
Filter 3	0.850	Zero = true

### CALIBRATION CHECK

Xq = 0.081 1.74%

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev  
Sim. Temp. out of range

Routine Performance Check Failed

Performed by

*Kevin E. Gibbs*

Date

10/20/2015

Reviewed by

Date

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 47.3°C  
Digital Sim = 33.6°C

## SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

## PUMP INFO

Flow Rate = 6.090 L/M

## DETECTOR INFO

	PUMP ON	OFF
MAX(V)	0.1295	0.1329
MIN(V)	0.1287	0.1309

## FILTER INFO

Filter 1	0.132	Zero = true
Filter 2	0.855	Zero = true
Filter 3	0.854	Zero = true

## CALIBRATION CHECK

Xq = 0.081 1.41%

## Accuracy and Precision Check

Concentration

Lot #

Range

Average

Std Dev

Sim. Temp. out of range

Routine Performance Check Failed

Performed by

*Kevin E Gibbs*

Date

10/20/2015

Reviewed by

Date

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 48.9°C  
Breath Tube = 47.5°C  
Digital Sim = 33.6°C

### SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

### PUMP INFO

Flow Rate = 6.058 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1285	0.1315
MIN (V)	0.1272	0.1299

### FILTER INFO

Filter 1	0.130	Zero = true
Filter 2	0.854	Zero = true
Filter 3	0.852	Zero = true

### CALIBRATION CHECK

Xq = 0.081 1.85%

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev

Routine Performance Check Failed

Performed by \_\_\_\_\_

Date

10/20/2015

Reviewed by \_\_\_\_\_

Date

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 47.4°C  
Digital Sim = 33.7°C

## SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

## PUMP INFO

Flow Rate = 6.102 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1278	0.1305
MIN (V)	0.1264	0.1289

## FILTER INFO

Filter 1	0.129	Zero = true
Filter 2	0.853	Zero = true
Filter 3	0.852	Zero = true

## CALIBRATION CHECK

Xq = 0.081 2.28%

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev

Routine Performance Check Failed.

Performed by \_\_\_\_\_

Date

10/20/2015

Reviewed by \_\_\_\_\_

Date

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.9°C  
Breath Tube = 46.6°C  
Digital Sim = 33.7°C

## SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 547 Hz

## PUMP INFO

Flow Rate = 6.043 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1291	0.1321
MIN (V)	0.1278	0.1305

## FILTER INFO

Filter 1	0.131	Zero = true
Filter 2	0.855	Zero = true
Filter 3	0.852	Zero = true

## CALIBRATION CHECK

Xq = 0.081 1.418

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev

Routine Performance Check Failed

Performed by

*Kevin E Gibbs*

Date

10/20/2015

Reviewed by

Date

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 46.2°C  
Digital Sim = 33.8°C

### SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

### PUMP INFO

Flow Rate = 6.004 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1303	0.1333
MIN (V)	0.1289	0.1319

### FILTER INFO

Filter 1	0.133	Zero = true
Filter 2	0.858	Zero = true
Filter 3	0.855	Zero = true

### CALIBRATION CHECK

Xq = 0.082 2.61%

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev

Routine Performance Check Failed

Performed by \_\_\_\_\_

Date \_\_\_\_\_

10/20/2015

Reviewed by \_\_\_\_\_

Date \_\_\_\_\_

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## Diagnostic Results

VERSIONS  
DMT: 2.00  
PIC: 2.06  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 46.2°C  
Digital Sim = 33.7°C

## SETTINGS

Lamp Voltage = 1.60 V  
Cooler Voltage = 1.63 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

## PUMP INFO

Flow Rate = 6.130 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.1333	0.1360
MIN (V)	0.1321	0.1348

## FILTER INFO

Filter 1	0.136	Zero = true
Filter 2	0.858	Zero = true
Filter 3	0.957	Zero = true

## CALIBRATION CHECK

Xq = 0.081 1.96%

## Accuracy and Precision Check

Concentration  
Lot #  
Range  
Average  
Std Dev

Routine Performance Check Failed

Performed by

*Kevin E Gibbs*

Date

10/20/2015

Reviewed by

Date