VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: Bennington CSO **DataMaster Serial #:** 100163

Date: 11/26/2014 Requestor: Joel Howard

Instrument Supervisor: Joel Howard Phone #: (802) 442-4900

Taken By: Robert Driscoll

Problem: Instrument failed Routine Performance Check

Laboratory Response: R. Driscoll to investigate onsite.

Work Performed: DMT Supervisor's RPC attempt failed due to a Calibration Check error. Rebooted DMT and ran a Diagnostic check. The Diagnostic passed so performed the RPC protocol. The RPC protocol passed (see RPC dated 12/02/2014). Completed a second Diagnostic check to verify that the Calibration Check was still within specifications. The instrument is operating within the manufacturer's specifications and is back in service.

☒ On Site ☐ In-house Attachments: 5 pages

Performed By: Robert Driscoll RD Date: 12/2/2014

Final Review: TLC Date: 12/9/2014

ROUTINE PERFORMANCE CHECK REPORT

DataMaster DMT: 100163
Location: Bennington County SO
Calibration Date: 07/29/2014
Certification Date: 07/31/2014
Installation Date: 08/18/2014
RPC Date: 11/26/2014
Supervisor Name: JOEL R HOWARD

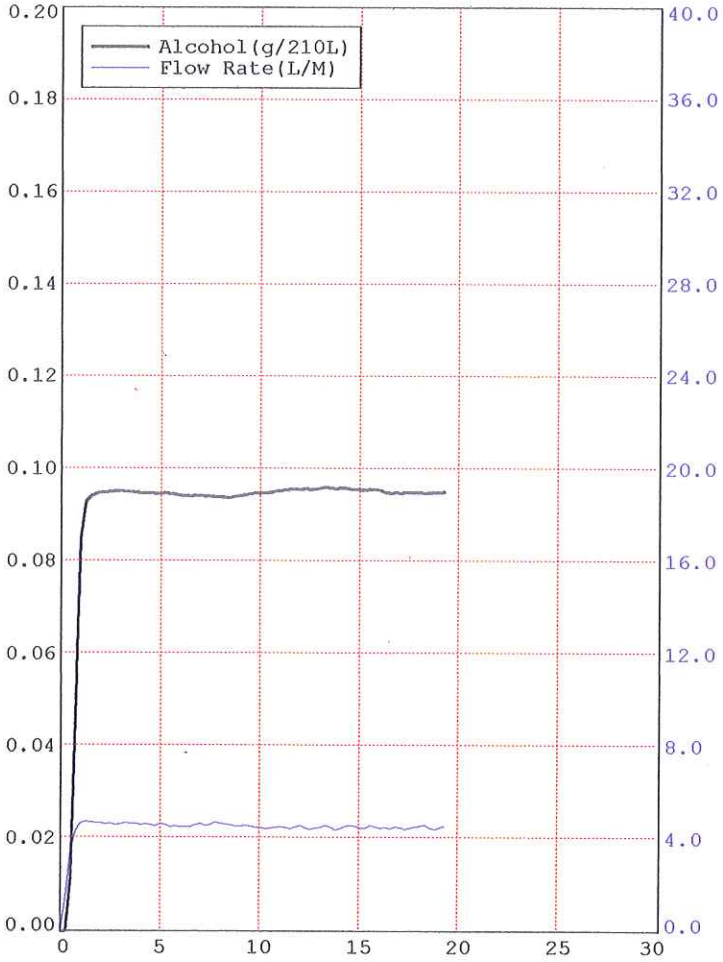
Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube    = 40.9°C
Digital Sim    = 33.9°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.68 V
Bias Voltage   = 80 V
Chopper Freq   = 523 Hz

PUMP INFO
Flow Rate = 4.923 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.1657    -0.1648
MIN(V)   -0.1713    -0.1675

FILTER INFO
Filter 1  -0.166  Zero = true
Filter 2   0.642  Zero = true
Filter 3   0.361  Zero = true

CALIBRATION CHECK
Xq  = 0.086  4.28% RO 12/2/14
```

Routine Performance Check Failed

Performed by Joe **Date** 11/26/2014

Reviewed by _____ **Date** _____



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163
Location: Bennington County SO

Date: 11/26/2014
Time: 09:36:18

SUPERVISOR NAME:
JOEL R HOWARD

SOLUTION LOT #: 14-14-100
SOLUTION CONCENTRATION: 0.099

BLANK TEST	0.000	09:37
CALIBRATION CHECK	PASSED	09:37
SIMULATOR VAPOR 33.9°C	0.096	09:37

Simulator Timed Out

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ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163
Location: Bennington County SO

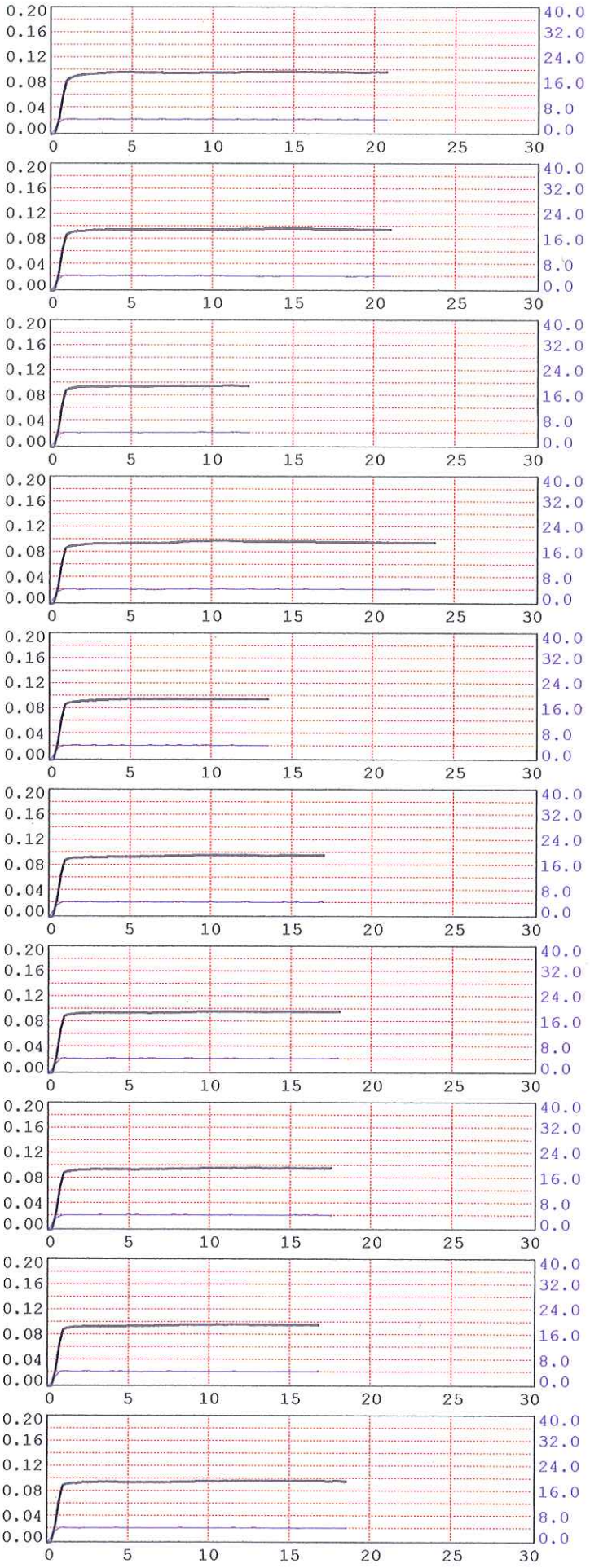
Date: 11/26/2014
Time: 09:40:18

SUPERVISOR NAME:
JOEL R HOWARD

SOLUTION LOT #: 14-14-100
SOLUTION CONCENTRATION: 0.099

BLANK TEST	0.000	09:41
CALIBRATION CHECK	PASSED	09:41
SIMULATOR VAPOR 33.9°C	0.098	09:41
SIMULATOR VAPOR 34.0°C	0.097	09:42
SIMULATOR VAPOR 34.0°C	0.095	09:44
SIMULATOR VAPOR 34.0°C	0.096	09:45
SIMULATOR VAPOR 33.9°C	0.096	09:46
SIMULATOR VAPOR 34.0°C	0.097	09:47
SIMULATOR VAPOR 33.9°C	0.097	09:48
SIMULATOR VAPOR 34.0°C	0.097	09:49
SIMULATOR VAPOR 34.0°C	0.097	09:50
SIMULATOR VAPOR 33.9°C	0.097	09:52
BLANK TEST	0.000	09:52

Average = 0.096
Std Dev = 0.000



DIAGNOSTIC RESULT

DataMaster DMT: 100163
Location: Bennington County SO
Calibration Date: 07/29/2014
Certification Date: 07/31/2014
Installation Date: 08/18/2014
Test Date: 12/02/2014
Test Time: 11:44:48

```
VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube    = 41.6°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.67 V
Bias Voltage   = 80 V
Chopper Freq   = 526 Hz

PUMP INFO
Flow Rate = 4.927 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.1386    -0.1346
MIN(V)   -0.1404    -0.1368

FILTER INFO
Filter 1  -0.137  Zero = true
Filter 2   0.668  Zero = true
Filter 3   0.396  Zero = true

CALIBRATION CHECK
Xq  = 0.087  3.50%
```

DIAGNOSTIC RESULT

DataMaster DMT: 100163
Location: Bennington County SO
Calibration Date: 07/29/2014
Certification Date: 07/31/2014
Installation Date: 08/18/2014
Test Date: 12/02/2014
Test Time: 12:32:28

VERSIONS
DMT: 1.01
PIC: 2.06
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 40.5°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.73 V
Cooler Voltage = 1.67 V
Bias Voltage = 80 V
Chopper Freq = 525 Hz

PUMP INFO
Flow Rate = 5.215 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1364	-0.1329
MIN(V)	-0.1384	-0.1346

FILTER INFO
Filter 1 -0.134 Zero = true
Filter 2 0.670 Zero = true
Filter 3 0.400 Zero = true

CALIBRATION CHECK
Xq = 0.087 2.92%

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