ANNUAL PREVENTATIVE MAINTENANCE

DataMaster DMT: 100163
Location: Bennington County SO
Calibration Date: 09/14/2011
Certification Date: 09/15/2011
Installation Date: 04/10/2012
APM Date: 05/10/2013
Performed by: ROBERT DRISCOLL

Diagnostic Results

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

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube    = 43.7°C
Digital Sim    = 33.9°C

SETTINGS
Lamp Voltage   = 1.80 V
Cooler Voltage = 1.58 V
Bias Voltage   = 80 V
Chopper Freq   = 560 Hz

PUMP INFO
Flow Rate = 5.149 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   -0.1520   -0.1478
MIN(V)   -0.1531   -0.1490

FILTER INFO
Filter 1  -0.149  Zero = true
Filter 2   0.071  Zero = true
Filter 3   0.448  Zero = true

CALIBRATION CHECK
Xq  = 0.079  1.56%
```

APM PASSED

Simulator Vapor Test

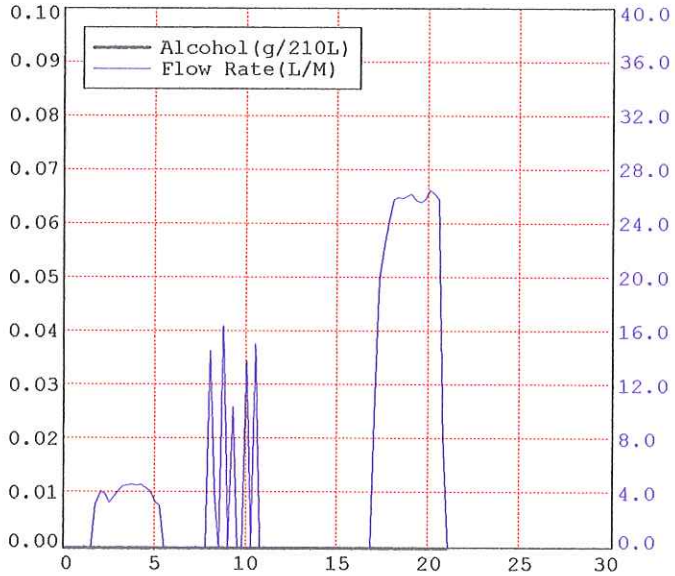
Concentration	= 0.101 g/210L
Lot #	= 12-87-100
Range	= 0.096 - 0.106
Simulator Vapor	= 0.098 g/210L

RF Detection Test

Passed

Sample Acceptance Test

Passed



33.9°C

NIST Thermometer S/N 111814522 RCD 5/10/13

Performed by RCD **Date** 05/10/2013

Reviewed by **Date** 5/14/2013

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Diagnostic Results

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

TEMPERATURES

Sample Chamber = 48.6°C
Breath Tube = 44.9°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.80 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 560 Hz

PUMP INFO
Flow Rate = 5.123 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1614	-0.1579
MIN(V)	-0.1628	-0.1589

FILTER INFO

Filter 1	-0.158	Zero = true
Filter 2	0.060	Zero = true
Filter 3	0.431	Zero = true

CALIBRATION CHECK
Xq = 0.079 2.35%

Simulator Vapor Test

Concentration = 0.101 g/210L
Lot # = 12-87-100
Range = 0.096 - 0.106
Simulator Vapor = 0.095 g/210L
Simulator out of range

RCD 5/10/13

APM FAILED

Simulator out of Range. Will rerun APM RCD 5/10/13

Performed by RCD **Date** 05/10/2013

Reviewed by _____ **Date** _____

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Performed by: ROBERT DRISCOLL

Diagnostic Results

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

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 43.9°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 1.80 V
Cooler Voltage = 1.57 V
Bias Voltage = 80 V
Chopper Freq = 560 Hz

PUMP INFO
Flow Rate = 5.118 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1598	-0.1553
MIN(V)	-0.1608	-0.1573

FILTER INFO
Filter 1 -0.155 Zero = true
Filter 2 0.062 Zero = true
Filter 3 0.435 Zero = true

CALIBRATION CHECK
Xq = 0.079 1.12%

Simulator Vapor Test

Concentration = 0.101 g/210L
Lot # = 12-87-100
Range = 0.096 - 0.106
Simulator Vapor = 0.095 g/210L
Simulator out of range

RCD
5/10/13

APM FAILED

Simulator solution still out of range (.095) will replace solution RCD 5/10/13

Performed by RCD **Date** 05/10/2013

Reviewed by _____ **Date** _____

3 of 4 RCD

SOLUTION CHANGE

DataMaster DMT: 100163
Location: Bennington County SO
Date: 05/10/2013
Performed by: ROBERT DRISCOLL

Accuracy and Precision Check

Concentration	= 0.101 g/210L
Lot #	= 12-87-100
Range	= 0.096 - 0.106
Average	= 0.098 g/210L
Std Dev	= 0.0000

Simulator Temperature: 33.9°C

Performed by RCD Date 05/10/2013