VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: _Fair Haven PD – Rutland VSP **DataMaster Serial #:** _100156_____

Date: 7/15/15___ Requestor:_VFL Alcohol Program Staff_____

Instrument Supervisor: _Dale Kerber_____ Phone #: _(802) 265-7839_____

Taken By:_Robert Driscoll_____

Problem: Detector voltage at filter one is above 0.600V._____

Laboratory Response: ____Alcohol Program staff will bring instrument to the Lab to optimize the detector voltage.

Work Performed: ___Optimized detector voltage at filter one to within +/- 0.100V with lamp and cooler voltage adjustments. Installed a new communication PCB and loaded updated software. Data was downloaded to a USB drive and then transferred into DM Host. The instrument has been Calibrated, Certified, and is now ready for installation at the agency.

☐ On Site ☒ In-house Attachments: __4____ pages

Performed By: _Robert Driscoll_RCD_____ Date: _7/16/15____
Final Review: _____ Date: 7/16/15

CALIBRATION REPORT

DataMaster DMT: 100156
Calibration Date: 07/16/2015
Calibrated by: ROBERT DRISCOLL
Lot: 15-08-100

Ca = 0.100			
CAL = 0.987816	0.800	<= CAL <	1.200
b1 = 0.000	0.000	<= b1 <	0.004
b2 = 0.004	0.002	<= b2 <	0.010
b3 = 0.000	0.000	<= b3 <	0.004
Xq = 0.086	0.050	<= Xq <	0.200
a21 = 1.192566	1.050	<= a21 <	1.300
a31 = 0.456757	0.300	<= a31 <	0.800

Performed by _____ Date 07/16/2015

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ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100156

Date: 07/16/2015
Time: 08:01:46

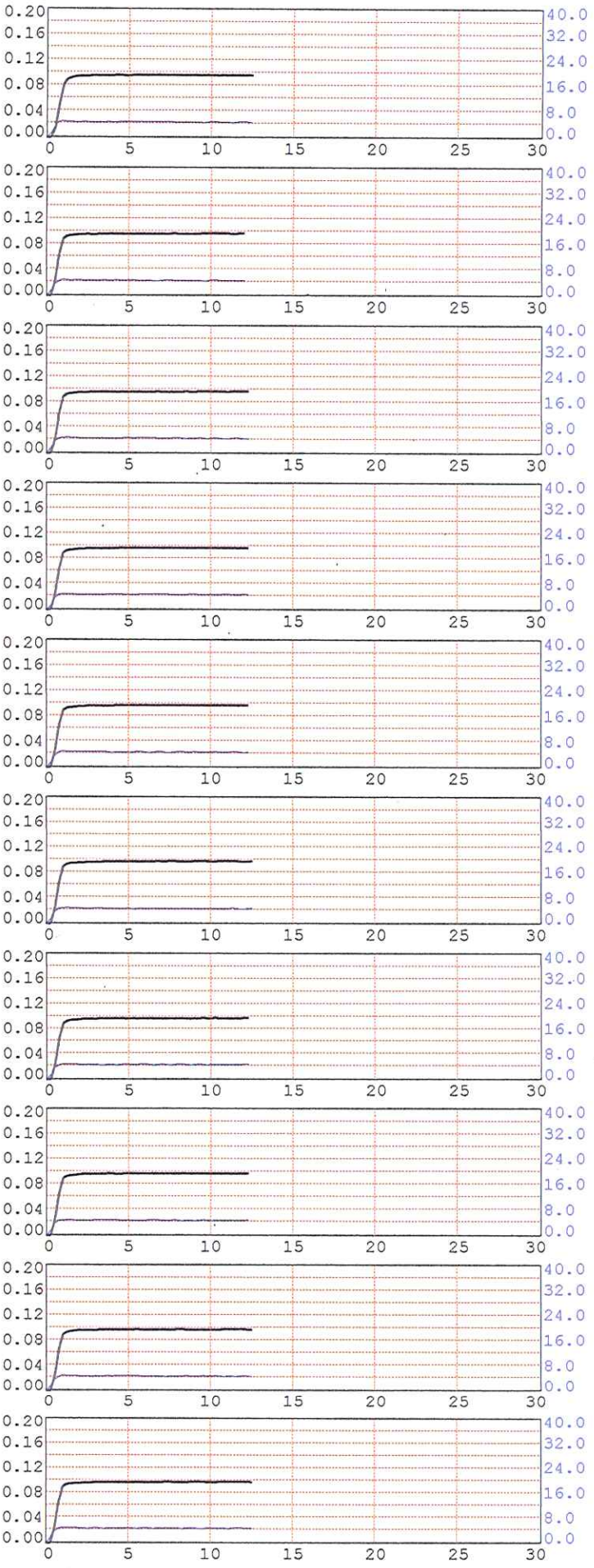
SUPERVISOR NAME:
RCD CAL CHECK

SOLUTION LOT #: GUTH 14110
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	08:02
CALIBRATION CHECK	PASSED	08:02
SIMULATOR VAPOR 34.0°C	0.097	08:03
SIMULATOR VAPOR 33.9°C	0.097	08:04
SIMULATOR VAPOR 33.9°C	0.098	08:05
SIMULATOR VAPOR 34.0°C	0.098	08:06
SIMULATOR VAPOR 34.0°C	0.098	08:07
SIMULATOR VAPOR 34.0°C	0.098	08:08
SIMULATOR VAPOR 34.0°C	0.098	08:09
SIMULATOR VAPOR 34.0°C	0.098	08:10
SIMULATOR VAPOR 33.9°C	0.098	08:11
SIMULATOR VAPOR 34.0°C	0.098	08:12
BLANK TEST	0.000	08:13

Average = 0.097
Std Dev = 0.0004

NIST Traceable Thermometer SN 111914517 33.9°C RCD 7/16/15



CERTIFICATION REPORT

DataMaster DMT: 100156
Calibration Date: 07/16/2015
Certification Date: 07/16/2015
Certified by: ROBERT DRISCOLL

Diagnostic Results

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

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube    = 45.6°C
Digital Sim    = 34.0°C

SETTINGS
Lamp Voltage   = 1.96 V
Cooler Voltage = 1.89 V
Bias Voltage   = 80 V
Chopper Freq   = 538 Hz

PUMP INFO
Flow Rate = 5.975 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   0.0114     0.0150
MIN(V)   0.0100     0.0136

FILTER INFO
Filter 1   0.014  Zero = true
Filter 2   0.144  Zero = true
Filter 3   1.131  Zero = true

CALIBRATION CHECK
Xq  = 0.086  0.10%
```

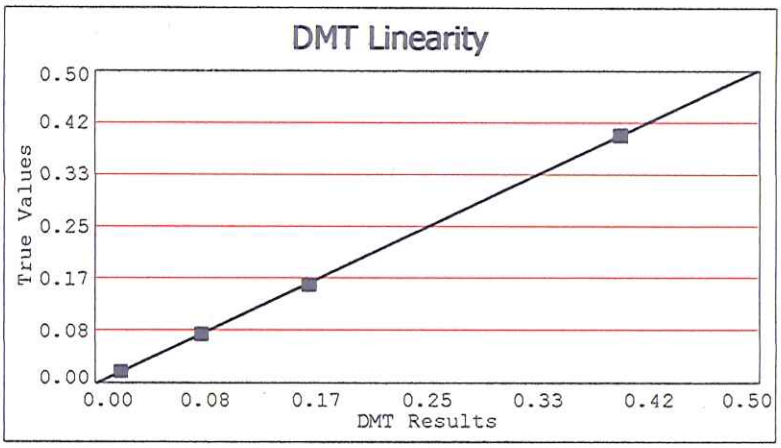
Options

```
OPTIONS
Units
   Alcohol.................. g/210L
Simulator
   Tolerance Check.......... yes
   Standard Type............ wet
   Nominal.................. 0.100
   Digital Simulator........ Guth34CNP
Subject
   Ask Questions............ yes
   Number of Tests.......... 2
   Alcohol Display.......... yes
   Volume Display........... yes
   Query Refusal............ yes
   Copies................... 3
   Simulator Before......... yes
   Simulator Between........ yes
   Simulator After.......... no
   Observation Time......... 0
Supervisor
   Number of Tests.......... 10
Calibration
   Standard Type............ wet
   Nominal.................. 0.100
   Nominal(Dry Gas)......... 0.100
   Number of Tests.......... 1
Printer
   Printer On............... yes
Software Configuration
   Data Collection.......... yes
```

Linearity Check Results

True Value	Reported Average	Std Dev
0.020 g/210L Lot # 14-13-020	0.019 g/210L	0.0003
0.080 g/210L Lot # 15-04-080	0.080 g/210L	0.0003
0.159 g/210L Lot # 15-03-160	0.161 g/210L	0.0000
0.398 g/210L Lot # 14-09-400	0.395 g/210L	0.0009

$R^2 = 0.9999$



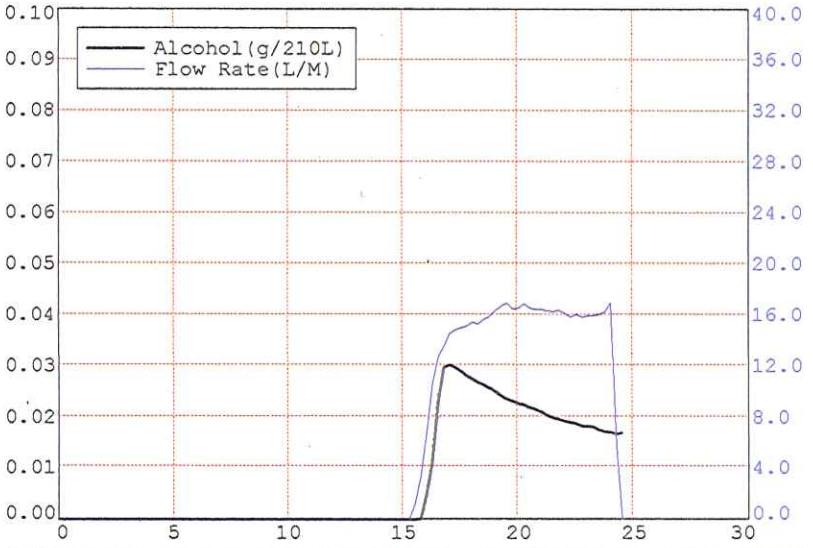
Acetone Interference Test

Lot # 15-04-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

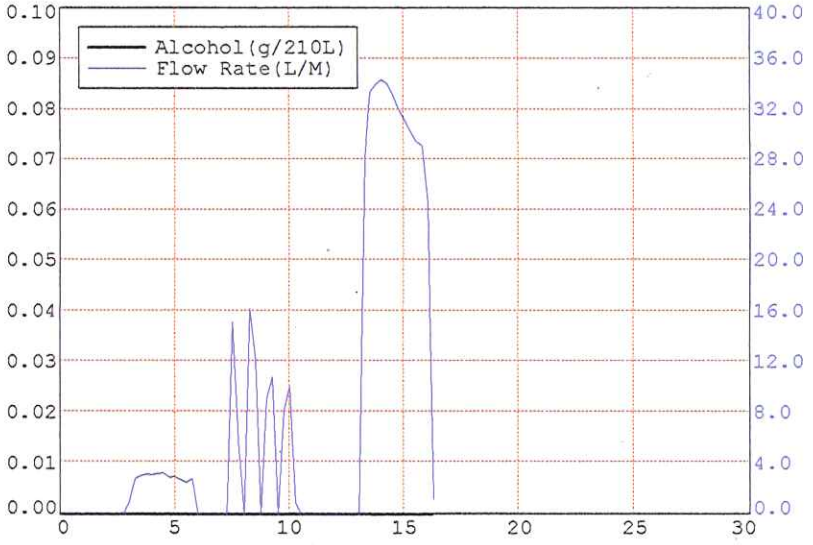


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ Date 07/16/2015

Reviewed by _____ Date 7/16/15