VERMONT FORENSIC LABORATORY

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DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: St. Albans PD **DataMaster Serial #:** 104809

Date: 1/30/2015 Requestor: Robert Driscoll

Instrument Supervisor: Michael Schrader Phone #: (802) 524-2166

Taken By: Robert Driscoll

Problem: Detector voltage at filter one was 0.615V during APM.

Laboratory Response: Alcohol program staff will bring instrument back to VFL for detector voltage adjustment.

Work Performed: Optimized detector voltage with lamp and cooler voltage adjustments. The instrument was then Calibrated, Certified, and is ready for installation at the agency.

☐ On Site ☒ In-house Attachments: 4 pages

Performed By: Robert Driscoll RD Date: 1/30/2015

Final Review: [signature] Date: 2/2/2015

CALIBRATION REPORT

DataMaster DMT: 104809
Calibration Date: 01/30/2015
Calibrated by: ROBERT DRISCOLL
Lot: 14-07-100

Ca = 0.100			
CAL = 1.007458	0.800	<= CAL <	1.200
b1 = 0.000	0.000	<= b1 <	0.004
b2 = 0.005	0.002	<= b2 <	0.010
b3 = 0.000	0.000	<= b3 <	0.004
Xq = 0.080	0.050	<= Xq <	0.200
a21 = 1.232132	1.050	<= a21 <	1.300
a31 = 0.479789	0.300	<= a31 <	0.800

Performed by RCD Date 01/30/2015

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 104809

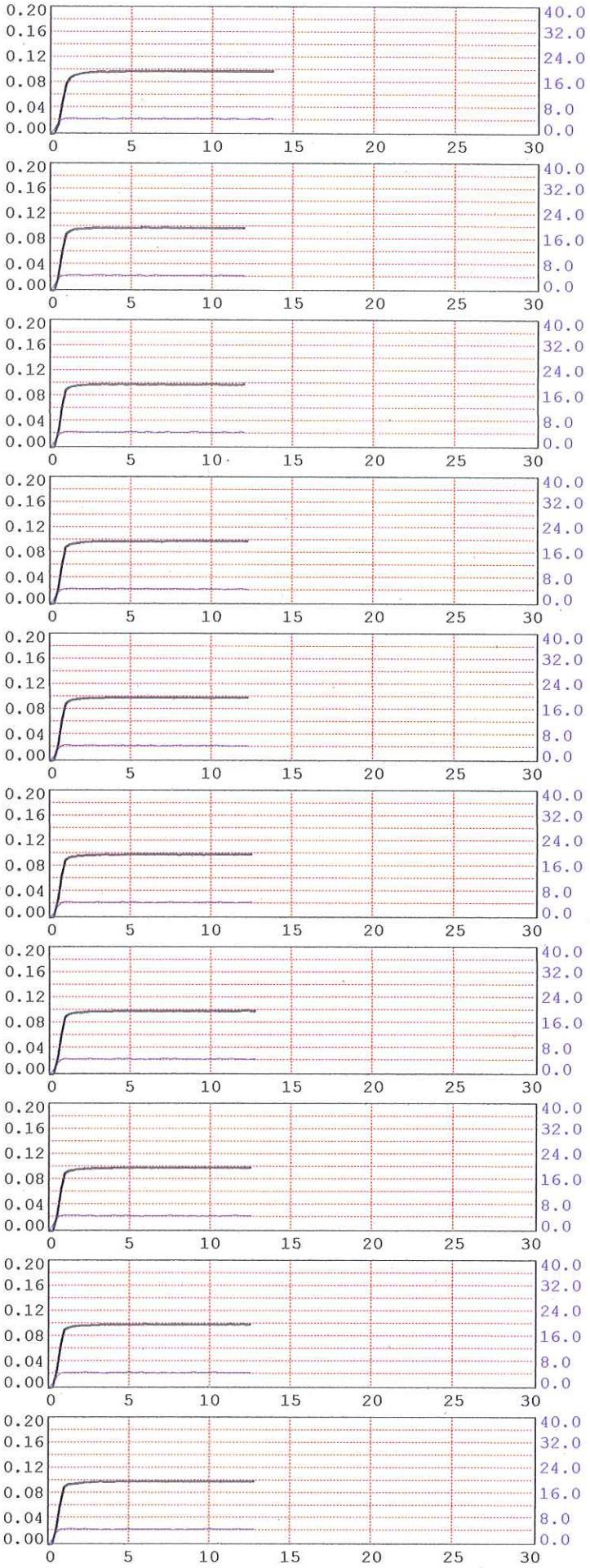
Date: 01/30/2015
Time: 13:20:20

SUPERVISOR NAME:
RCD CAL CHECK

SOLUTION LOT #: GUTH 14110
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	13:21
CALIBRATION CHECK	PASSED	13:21
SIMULATOR VAPOR 34.0°C	0.098	13:21
SIMULATOR VAPOR 33.9°C	0.099	13:22
SIMULATOR VAPOR 34.0°C	0.099	13:23
SIMULATOR VAPOR 33.9°C	0.099	13:24
SIMULATOR VAPOR 34.0°C	0.099	13:25
SIMULATOR VAPOR 33.9°C	0.099	13:26
SIMULATOR VAPOR 33.9°C	0.099	13:28
SIMULATOR VAPOR 34.0°C	0.099	13:29
SIMULATOR VAPOR 33.9°C	0.099	13:30
SIMULATOR VAPOR 33.9°C	0.099	13:31
BLANK TEST	0.000	13:32

Average = 0.098
Std Dev = 0.000



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CERTIFICATION REPORT

DataMaster DMT: 104809
Calibration Date: 01/30/2015
Certification Date: 01/30/2015
Certified by: ROBERT DRISCOLL

Diagnostic Results

```
VERSIONS
DMT: 1.01
PIC: 2.05
Modem: 2.4
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.4°C
Breath Tube    = 44.9°C
Digital Sim    = 33.9°C

SETTINGS
Lamp Voltage   = 1.73 V
Cooler Voltage = 1.79 V
Bias Voltage   = 80 V
Chopper Freq   = 536 Hz

PUMP INFO
Flow Rate = 5.906 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)    0.0205     0.0228
MIN(V)    0.0187     0.0213

FILTER INFO
Filter 1   0.022  Zero = true
Filter 2   0.671  Zero = true
Filter 3   0.467  Zero = true

CALIBRATION CHECK
Xq  = 0.079  0.44%
```

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
```


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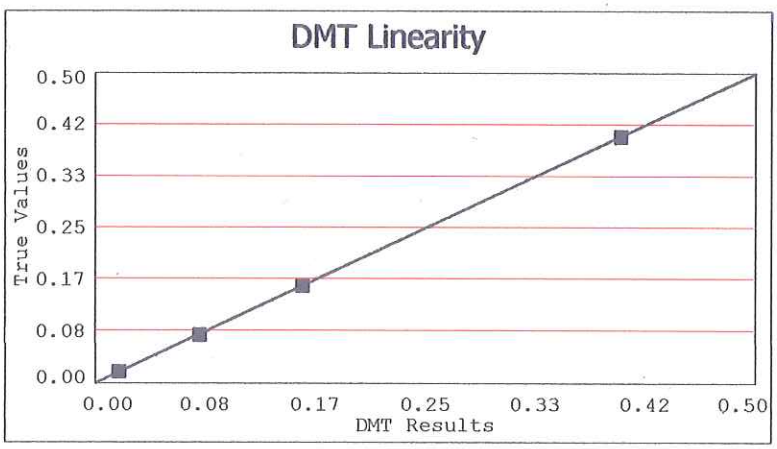
Linearity Check Results

True Value	Reported Average	Std Dev
0.020 g/210L	0.018 g/210L	0.0000
Lot # 14-13-020		
0.079 g/210L	0.079 g/210L	0.0000
Lot # 14-08-080		
0.158 g/210L	0.157 g/210L	0.0000
Lot # 14-06-160		
0.398 g/210L	0.398 g/210L	0.0000
Lot # 14-09-400		

$R^2 = 1$



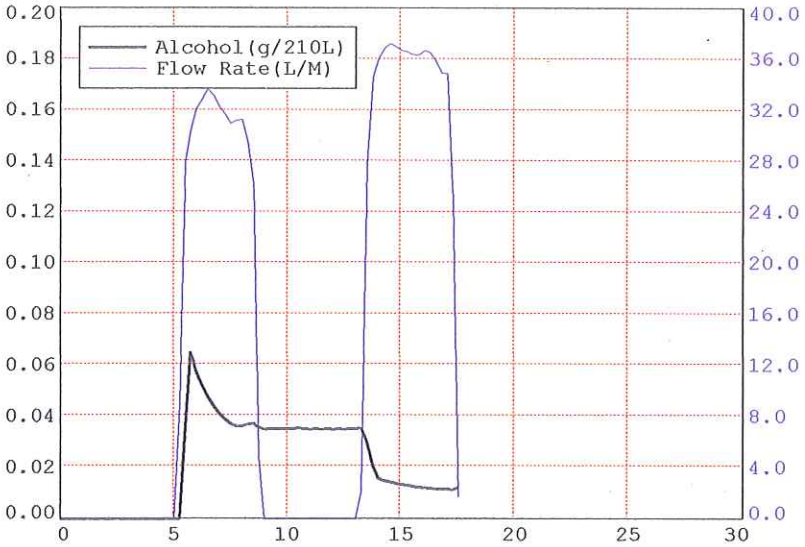
Acetone Interference Test

Lot # 14-11-08A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

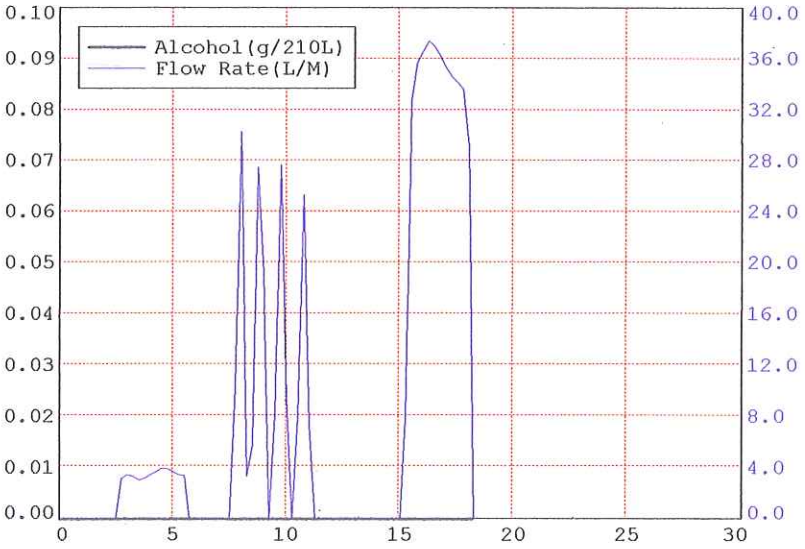


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by RCD **Date** 01/30/2015

Reviewed by **Date** 2/2/2015