



### DMT Technical Support Inquiry

**DMT Serial #:** 100160  
**Agency/Site:** St Albans PD  
**Date:** 01/30/2020  
**DMT Supervisor:** Michael Malinowski

**Problem:**

DMT was installed on 1/3/2020. Diagnostic checks are run on the 1st and 15th of each month to monitor instrument performance. Upon reviewing the records, it was noticed that the diagnostics run on 1/15/2020 and 2/1/2020 did not meet the calibration check criteria, although the DMT met the calibration check criteria for DUI subject tests on 1/17, 1/18, and 1/19/2020. A calibration check error was then obtained during a subject breath testing sequence on 1/24/2020 and 1/28/2020. VFL was contacted and the instrument was removed from service.

**Work Performed:**

On 2/11/2020, VFL staff ran a diagnostic on site and then removed the detector block and cleaned the quartz disc with a foam swab. The detector block was reassembled and a diagnostic was run to monitor Xq results. The instrument was moved to a new location within the agency to monitor the impact of the DMT location and another diagnostic check was run. An additional 7 diagnostic checks were run from 2/15/2020 through 3/9/2020, either by an officer at the agency or as part of the bimonthly diagnostic checks. Over this time frame, the Xq value increased from 0.091 on 2/11/2020 to 0.108 on 3/9/2020, indicating the quartz wheel was getting "dirty". The instrument was returned to the VFL for service. On 3/17/2020, the detector block was removed and a fog-like "haze" was noticed on the quartz disc prior to cleaning. The entire detector block was cleaned. The detector block was reassembled without lubricant and 60 filter wheel cycles were run with no errors. On 3/19/2020, a diagnostic was run resulting in a filter wheel error. SGS removed detector block, replaced a warped washer, and reassembled the detector block with no lubricant. Multiple filter wheel errors were obtained which could not be resolved. On 5/5/2020, the detector block was removed and disassembled by JSD. The filters and quartz disc were cleaned with compressed air and the detector block was reassembled with lubricant. Upon reassembly, 50 filter wheel cycles were completed with no errors and the detector voltages were optimized. On 5/12/2020, a successful calibration and certification were performed. The instrument is now ready for installation at the agency.

*JSD* 5/13/2020

**Performed On Site**   
**Performed In house**

<b>Performed By:</b>	<u>Jeff Dukette</u> <i>[Signature]</i>	<b>Date:</b>	<u>5/13/2020</u>
<b>Technical Reviewer:</b>	<u><i>[Signature]</i></u>	<b>Date:</b>	<u>5/13/2020</u>
<b>Administrative Reviewer:</b>	<u><i>[Signature]</i></u>	<b>Date:</b>	<u>5/13/2020</u>
<b>Director Reviewer:</b>	<u><i>[Signature]</i></u>	<b>Date:</b>	<u>5/13/2020</u>

# CALIBRATION REPORT

DataMaster DMT: 100160  
Calibration Date: 05/12/2020  
Calibrated by: JEFFERY DUKETTE  
Lot: 19-17-100



Ca	=	0.100			
CAL	=	0.949035	0.800	<=	CAL < 1.200
b1	=	0.000	0.000	<=	b1 < 0.004
b2	=	0.006	0.002	<=	b2 < 0.010
b3	=	0.000	0.000	<=	b3 < 0.004
Xq	=	0.088	0.050	<=	Xq < 0.200
a21	=	1.164374	1.050	<=	a21 < 1.300
a31	=	0.401883	0.300	<=	a31 < 0.800

BL-DMT01072020 34.00°C

JSD 5/12/2020

Performed by

JSD

Date

05/12/2020



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100160

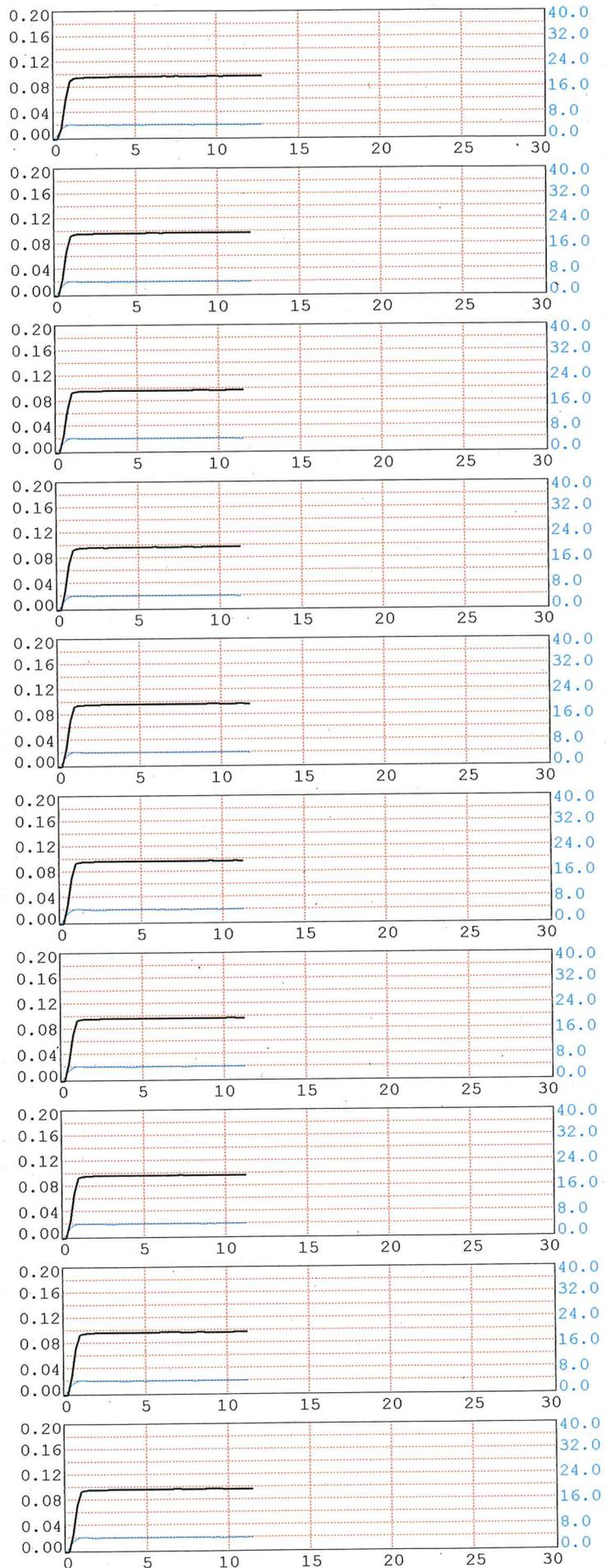
Date: 05/12/2020  
Time: 09:44:08

SUPERVISOR NAME:  
JSD CAL CHECK

SOLUTION LOT #: ACS201912C  
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	09:45
CALIBRATION CHECK	PASSED	09:45
SIMULATOR VAPOR 34.0°C	0.098	09:45
SIMULATOR VAPOR 34.0°C	0.098	09:46
SIMULATOR VAPOR 34.0°C	0.098	09:47
SIMULATOR VAPOR 34.0°C	0.098	09:48
SIMULATOR VAPOR 34.0°C	0.098	09:49
SIMULATOR VAPOR 34.0°C	0.098	09:50
SIMULATOR VAPOR 34.0°C	0.098	09:51
SIMULATOR VAPOR 34.0°C	0.098	09:52
SIMULATOR VAPOR 34.0°C	0.098	09:53
SIMULATOR VAPOR 34.0°C	0.098	09:54
BLANK TEST	0.000	09:55

Average = 0.098  
Std Dev = 0.0000



# CERTIFICATION REPORT

DataMaster DMT: 100160  
Calibration Date: 05/12/2020  
Certification Date: 05/12/2020  
Certified by: JEFFERY DUKETTE



## Diagnostic Results

### VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

### TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

### SETTINGS

Lamp Voltage = 1.64 V  
Cooler Voltage = 1.66 V  
Bias Voltage = 80 V  
Chopper Freq = 544 Hz

### PUMP INFO

Flow Rate = 4.916 L/M

### DETECTOR INFO

PUMP	ON	OFF
MAX (V)	0.0685	0.0600
MIN (V)	0.0669	0.0581

### FILTER INFO

Filter 1	0.058	Zero = true
Filter 2	0.356	Zero = true
Filter 3	1.566	Zero = true

### CALIBRATION CHECK

Xq = 0.089 0.69%

## Options

### OPTIONS

#### Units

Alcohol..... g/210L

#### Simulator

Tolerance Check..... yes  
Standard Type..... wet  
Nominal..... 0.100  
Digital Simulator..... Guth

#### 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



# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 03/19/2020  
Test Time: 09:32:51



VERSIONS  
DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

Filter Wheel Error

*298 5/15/2020*

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 03/17/2020  
Test Time: 14:34:10



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.9°C  
Breath Tube = 48.1°C  
Digital Sim = 0.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 533 Hz

## PUMP INFO

Flow Rate = 4.830 L/M

## DETECTOR INFO

	ON	OFF
MAX(V)	0.5118	0.5173
MIN(V)	0.5094	0.5157

## FILTER INFO

Filter 1	0.516	Zero = true
Filter 2	0.792	Zero = true
Filter 3	1.828	Zero = true

## CALIBRATION CHECK

Xq = 0.085 24.13%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 03/09/2020  
Test Time: 10:45:04



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.7°C  
Breath Tube = 48.1°C  
Digital Sim = 0.0°C

## SETTINGS

Lamp Voltage = 1.62 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq. = 545 Hz

## PUMP INFO

Flow Rate = 4.850 L/M

## DETECTOR INFO

	PUMP	ON	OFF
MAX(V)	0.0797	0.0805	
MIN(V)	0.0785	0.0789	

## FILTER INFO

Filter 1	0.080	Zero = true
Filter 2	0.387	Zero = true
Filter 3	1.631	Zero = true

## CALIBRATION CHECK

Xq = 0.108 3.37%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 03/04/2020  
Test Time: 12:00:07



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.7°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 548 Hz

## PUMP INFO

Flow Rate = 4.744 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0079	-0.0049
MIN (V)	-0.0100	-0.0065

## FILTER INFO

Filter 1	-0.005	Zero = true
Filter 2	0.306	Zero = true
Filter 3	1.526	Zero = true

## CALIBRATION CHECK

Xq = 0.104 6.80%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 03/01/2020  
Test Time: 10:00:02



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.7°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 547 Hz

## PUMP INFO

Flow Rate = 4.914 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0313	-0.0278
MIN (V)	-0.0327	-0.0287

## FILTER INFO

Filter 1	-0.028	Zero = true
Filter 2	0.282	Zero = true
Filter 3	1.498	Zero = true

## CALIBRATION CHECK

Xq = 0.102 8.99%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/28/2020  
Test Time: 12:59:27



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 547 Hz

## PUMP INFO

Flow Rate = 4.806 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0112	-0.0077
MIN(V)	-0.0122	-0.0089

## FILTER INFO

Filter 1	-0.008	Zero = true
Filter 2	0.303	Zero = true
Filter 3	1.523	Zero = true

## CALIBRATION CHECK

Xq = 0.102 8.91%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/24/2020  
Test Time: 09:04:09



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.9°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 548 Hz

## PUMP INFO

Flow Rate = 4.846 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0152	-0.0116
MIN(V)	-0.0165	-0.0132

## FILTER INFO

Filter 1	-0.012	Zero = true
Filter 2	0.300	Zero = true
Filter 3	1.516	Zero = true

## CALIBRATION CHECK

Xq = 0.098 12.80%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/18/2020  
Test Time: 08:17:59



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 547 Hz

## PUMP INFO

Flow Rate = 4.971 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0295	-0.0252
MIN (V)	-0.0307	-0.0268

## FILTER INFO

Filter 1	-0.025	Zero = true
Filter 2	0.286	Zero = true
Filter 3	1.499	Zero = true

## CALIBRATION CHECK

Xq = 0.095 15.21%

# DIAGNOSTIC RESULT



DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/15/2020  
Test Time: 10:00:02

## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 49.1°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 546 Hz

## PUMP INFO

Flow Rate = 5.011 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0276	-0.0236
MIN(V)	-0.0291	-0.0250

## FILTER INFO

Filter 1	-0.023	Zero = true
Filter 2	0.285	Zero = true
Filter 3	1.502	Zero = true

## CALIBRATION CHECK

Xq = 0.094 16.30%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/11/2020  
Test Time: 15:11:48



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 540 Hz

## PUMP INFO

Flow Rate = 4.891 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0504	-0.0459
MIN(V)	-0.0522	-0.0476

## FILTER INFO

Filter 1	-0.045	Zero = true
Filter 2	0.269	Zero = true
Filter 3	1.467	Zero = true

## CALIBRATION CHECK

Xq = 0.091 18.94%

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/11/2020  
Test Time: 14:44:37



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 49.4°C  
Breath Tube = 45.3°C  
Digital Sim = 0.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 532 Hz

## PUMP INFO

Flow Rate = 4.977 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0567	-0.0512
MIN (V)	-0.0583	-0.0524

## FILTER INFO

Filter 1	-0.053	Zero = true
Filter 2	0.263	Zero = true
Filter 3	1.447	Zero = true

## CALIBRATION CHECK

Xq = 0.092 17.70%

*JD 3/17/20 (note made 5/18/2020)  
JD 5/18/2020*

*Detector block disassembled and quartz disc cleaned w/ foam swab and reassembled. Instrument removed from location to assess impact of DMT location. Xq after cleaning = 0.092.*

*JD 3/17/2020*

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/11/2020  
Test Time: 14:09:59



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 49.0°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 548 Hz

## PUMP INFO

Flow Rate = 4.864 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1122	-0.1085
MIN(V)	-0.1142	-0.1102

## FILTER INFO

Filter 1	-0.109	Zero = true
Filter 2	0.213	Zero = true
Filter 3	1.453	Zero = true

## CALIBRATION CHECK

Xq = 0.122 8.95%

*Diagnostic run by JSD upon arrival at agency  
JSD 3/17/2020*

# DIAGNOSTIC RESULT

DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 02/01/2020  
Test Time: 10:00:02



## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.8°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 548 Hz

## PUMP INFO

Flow Rate = 4.909 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1094	-0.1055
MIN(V)	-0.1108	-0.1067

## FILTER INFO

Filter 1	-0.106	Zero = true
Filter 2	0.216	Zero = true
Filter 3	1.456	Zero = true

## CALIBRATION CHECK

Xq = 0.119 6.12%

*Bimonthly diagnostic JSD 3/17/2020*

# DIAGNOSTIC RESULT



DataMaster DMT: 100160  
Location: ST. ALBANS PD  
Calibration Date: 12/24/2019  
Certification Date: 12/24/2019  
Installation Date: 01/03/2020  
Test Date: 01/15/2020  
Test Time: 10:00:03

## VERSIONS

DMT: 2.05  
PIC: 2.08  
Modem: 2.6  
Questions: 2.1

## TEMPERATURES

Sample Chamber = 48.7°C  
Breath Tube = 48.1°C  
Digital Sim = 34.0°C

## SETTINGS

Lamp Voltage = 1.61 V  
Cooler Voltage = 1.61 V  
Bias Voltage = 80 V  
Chopper Freq = 549 Hz

## PUMP INFO

Flow Rate = 4.839 L/M

## DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.1020	-0.0986
MIN(V)	-0.1045	-0.1000

## FILTER INFO

Filter 1	-0.099	Zero = true
Filter 2	0.222	Zero = true
Filter 3	1.457	Zero = true

## CALIBRATION CHECK

Xq = 0.117 4.08%

*JSO 3/17/2020*

*Bio Bimonthly diagnostic. Cal check outside criteria but passed for DUI tests on 1/17, 1/18, & 1/19/2020*

*JSO 3/17/2020*



## Re: DMT Diagnostic

McCarty, Francis <Francis.McCarty@vermont.gov>

Fri 2020-02-28 1:05 PM

To: DPS - DMT <DPS.DMT@vermont.gov>

📎 1 attachments (30 KB)

SKM\_C45820022813130.pdf;

*Detective Sergeant Frank McCarty*

*St. Albans Police Department*

*30 Lower Welden Street*

*St. Albans, VT. 05478*

*(802) 524-2166*

*(802)527-7778 (fax)*

*[francis.mccarty@vermont.gov](mailto:francis.mccarty@vermont.gov)*

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**From:** DPS - DMT <DPS.DMT@vermont.gov>

**Sent:** Friday, February 28, 2020 12:19 PM

**To:** McCarty, Francis <Francis.McCarty@vermont.gov>; King, Richard <Richard.King@vermont.gov>

**Cc:** Billings, Jeffrey <Jeffrey.Billings@vermont.gov>

**Subject:** Re: DMT Diagnostic

Still too soon to draw any conclusions but we are working on it still. We do have another theory that we are working on now. Do you mind running another diagnostic today?

Rick have you had the chance to run any diagnostics on the old instrument on your desk? I know the new one is out again...Hopefully we can get this resolved ASAP.

Thanks and apologies again gentlemen,

Jeff

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**From:** McCarty, Francis <Francis.McCarty@vermont.gov>

**Sent:** Friday, February 28, 2020 10:49 AM

**To:** King, Richard <Richard.King@vermont.gov>; DPS - DMT <DPS.DMT@vermont.gov>

**Cc:** Billings, Jeffrey <Jeffrey.Billings@vermont.gov>

**Subject:** Re: DMT Diagnostic

How have the test been that I have sent you since being moved to my office?

Frank

*Detective Sergeant Frank McCarty*

*St. Albans Police Department*

100160

JSD

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30 Lower Welden Street  
St. Albans, VT. 05478  
(802) 524-2166  
(802)527-7778 (fax)  
[francis.mccarty@vermont.gov](mailto:francis.mccarty@vermont.gov)

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**From:** King, Richard <Richard.King@vermont.gov>  
**Sent:** Friday, February 28, 2020 12:43 AM  
**To:** DPS - DMT <DPS.DMT@vermont.gov>; McCarty, Francis <Francis.McCarty@vermont.gov>  
**Cc:** Billings, Jeffrey <Jeffrey.Billings@vermont.gov>  
**Subject:** Re: DMT Diagnostic

Jeff:

The new DMT is now out of calibration (lasted 15 days). I have attached a copy of the attempted breath ticket, diagnostic and an attempted test. Short of putting a bullet in both of them I have run out of ideas.

Rick

Detective Sergeant Richard King  
Ludlow Police Department  
P.O. Box 359  
Ludlow, VT 05149  
DRE# 016261  
(802) 228-4411  
[richard.king@vermont.gov](mailto:richard.king@vermont.gov) (Please note the new email address)

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**From:** DPS - DMT <DPS.DMT@vermont.gov>  
**Sent:** Monday, February 24, 2020 9:00:39 AM  
**To:** King, Richard <Richard.King@vermont.gov>; McCarty, Francis <Francis.McCarty@vermont.gov>  
**Subject:** DMT Diagnostic

Good morning Gentlemen,

When you get a minute can you please run a diagnostic on the DMTs that are under test at your agency and email me a copy of the diagnostic ticket if you have time? Receiving a copy of the ticket is less important than the diagnostic just being run since I can gather the data later. However, I need the diagnostics to be run periodically to monitor how things are changing.

I will try to send periodic email reminders, but I'd like you to run a diagnostic at the beginning and end of each week for a couple weeks just to see if/how the results change in the DMTs new temporary location.

Feel free to reach out with any questions.

Thanks!

Jeff

100160

JSD

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## Re: DMT Diagnostic

King, Richard <Richard.King@vermont.gov>

Fri 2020-02-28 3:48 PM

To: DPS - DMT <DPS.DMT@vermont.gov>; McCarty, Francis <Francis.McCarty@vermont.gov>

Cc: Billings, Jeffrey <Jeffrey.Billings@vermont.gov>

📎 1 attachments (91 KB)

DG200228154242.pdf;

I have attached the diagnostic for the other DMT, still out of whack.

Rick

Detective Sergeant Richard King

Ludlow Police Department

P.O. Box 359

Ludlow, VT 05149

DRE# 016261

(802) 228-4411

[richard.king@vermont.gov](mailto:richard.king@vermont.gov) (Please note the new email address)

---

**From:** DPS - DMT <DPS.DMT@vermont.gov>

**Sent:** Friday, February 28, 2020 12:19:11 PM

**To:** McCarty, Francis <Francis.McCarty@vermont.gov>; King, Richard <Richard.King@vermont.gov>

**Cc:** Billings, Jeffrey <Jeffrey.Billings@vermont.gov>

**Subject:** Re: DMT Diagnostic

Still too soon to draw any conclusions but we are working on it still. We do have another theory that we are working on now. Do you mind running another diagnostic today?

Rick have you had the chance to run any diagnostics on the old instrument on your desk? I know the new one is out again...Hopefully we can get this resolved ASAP.

Thanks and apologies again gentlemen,

Jeff

---

**From:** McCarty, Francis <Francis.McCarty@vermont.gov>

**Sent:** Friday, February 28, 2020 10:49 AM

**To:** King, Richard <Richard.King@vermont.gov>; DPS - DMT <DPS.DMT@vermont.gov>

**Cc:** Billings, Jeffrey <Jeffrey.Billings@vermont.gov>

**Subject:** Re: DMT Diagnostic

How have the test been that I have sent you since being moved to my office?

Frank

*Detective Sergeant Frank McCarty*

100160

JSD

23

St. Albans Police Department  
30 Lower Welden Street  
St. Albans, VT. 05478  
(802) 524-2166  
(802) 527-7778 (fax)  
[francis.mccarty@vermont.gov](mailto:francis.mccarty@vermont.gov)

---

**From:** King, Richard <Richard.King@vermont.gov>  
**Sent:** Friday, February 28, 2020 12:43 AM  
**To:** DPS - DMT <DPS.DMT@vermont.gov>; McCarty, Francis <Francis.McCarty@vermont.gov>  
**Cc:** Billings, Jeffrey <Jeffrey.Billings@vermont.gov>  
**Subject:** Re: DMT Diagnostic

Jeff:

The new DMT is now out of calibration (lasted 15 days). I have attached a copy of the attempted breath ticket, diagnostic and an attempted test. Short of putting a bullet in both of them I have run out of ideas.

Rick

Detective Sergeant Richard King  
Ludlow Police Department  
P.O. Box 359  
Ludlow, VT 05149  
DRE# 016261  
(802) 228-4411  
[richard.king@vermont.gov](mailto:richard.king@vermont.gov) (Please note the new email address)

---

**From:** DPS - DMT <DPS.DMT@vermont.gov>  
**Sent:** Monday, February 24, 2020 9:00:39 AM  
**To:** King, Richard <Richard.King@vermont.gov>; McCarty, Francis <Francis.McCarty@vermont.gov>  
**Subject:** DMT Diagnostic

Good morning Gentlemen,

When you get a minute can you please run a diagnostic on the DMTs that are under test at your agency and email me a copy of the diagnostic ticket if you have time? Receiving a copy of the ticket is less important than the diagnostic just being run since I can gather the data later. However, I need the diagnostics to be run periodically to monitor how things are changing.

I will try to send periodic email reminders, but I'd like you to run a diagnostic at the beginning and end of each week for a couple weeks just to see if/how the results change in the DMTs new temporary location.

Feel free to reach out with any questions.

Thanks!

Jeff

100160

JSD

24

**Re: DMT Diagnostic**

DPS - DMT <DPS.DMT@vermont.gov>

Mon 2020-02-24 9:16 AM

To: McCarty, Francis <Francis.McCarty@vermont.gov>

thank you!

---

**From:** McCarty, Francis <Francis.McCarty@vermont.gov>

**Sent:** Monday, February 24, 2020 9:14 AM

**To:** DPS - DMT <DPS.DMT@vermont.gov>

**Subject:** Re: DMT Diagnostic

*Detective Sergeant Frank McCarty*

*St. Albans Police Department*

*30 Lower Welden Street*

*St. Albans, VT. 05478*

*(802) 524-2166*

*(802)527-7778 (fax)*

*[francis.mccarty@vermont.gov](mailto:francis.mccarty@vermont.gov)*

---

**From:** DPS - DMT <DPS.DMT@vermont.gov>

**Sent:** Monday, February 24, 2020 9:00 AM

**To:** King, Richard <Richard.King@vermont.gov>; McCarty, Francis <Francis.McCarty@vermont.gov>

**Subject:** DMT Diagnostic

Good morning Gentlemen,

When you get a minute can you please run a diagnostic on the DMTs that are under test at your agency and email me a copy of the diagnostic ticket if you have time? Receiving a copy of the ticket is less important than the diagnostic just being run since I can gather the data later. However, I need the diagnostics to be run periodically to monitor how things are changing.

I will try to send periodic email reminders, but I'd like you to run a diagnostic at the beginning and end of each week for a couple weeks just to see if/how the results change in the DMTs new temporary location.

Feel free to reach out with any questions.

Thanks!

Jeff

## DMT Status

Dukette, Jeffery <Jeffery.Dukette@vermont.gov>

Fri 1/31/2020 2:00 PM

To: Malinowski, Michael <Michael.Malinowski@vermont.gov>; King, Richard <Richard.King@vermont.gov>

Cc: DPS - DMT <DPS.DMT@vermont.gov>; Bolduc, Amanda <Amanda.Bolduc@vermont.gov>; Stratton, Sarah <Sarah.Stratton@vermont.gov>

Afternoon,

Following up on my previous email....I'd like to perform a little experiment at your agencies. Since this issue has not been reproducible at the lab, it does not make sense for us grab the instrument and try to troubleshoot back here. However, I still want to narrow down the possibilities so we can resolve whatever is going on and get you back a DMT ASAP. There is one other location in the field that has similar issues and this instrument is also located adjacent to a frequently used egress. At this point we have cleaned the DMTs, replaced parts, computer boards, tested voltages/power requirements, added updated line conditioners, and even replaced an instrument entirely. However, we have been unable to reproduce the errors anywhere other than your location. Given all of this, we suspect the location may be the common link between the instruments and would to investigate this theory further.

Is there another location within your agency where I can put a DMT for a few weeks to see if the error still occurs? This will help us narrow down whether or not it has to do with it's location near the door. Please note: The DMT will NOT be approved for use in this location. This is merely for diagnostic purposes. What I will need from you is a bench top space with access to an outlet that is big enough to fit the DMT and simulator. This could be in the officer common room, dispatch, or even a closet/shelf space or wherever else you have space at your agency. The only requirements are that it will not be near an active egress, there will be some sort of air circulation, and it will be safe from getting Gronk spiked (or accidentally knocked off a table).

I know I have asked this before, but given the time frame in which the DMT worked fine previously, can you think of ANYTHING that may have changed at your location in the last year or so? No matter how insignificant it may seem. A few potential ideas would be a change in air handling systems, a change in power company or an electrical update, the addition of a new fingerprint or other processing system, a change in cleaning chemicals or cleaning vendors that service your processing area, addition/removal of a printer, fan, cleaning materials, computer, etc in the processing area, a change in access frequency i.e. is the door adjacent used more often now than it was previously?

Again, we apologize for the inconvenience of not having a DMT online. We understand your frustration. This situation is equally frustrating for us and we are working as best as we can to find a resolution.

Thanks,

**Jeff Dukette**

Forensic Chemist

Vermont Forensic Laboratory

45 State Drive

Waterbury, VT 05671

(802) 241-5275 (Direct)

(802) 585-5843 (Cell)

[Jeffery.Dukette@vermont.gov](mailto:Jeffery.Dukette@vermont.gov)

100160

350

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**Re: DataMaster**

Dukette, Jeffery <Jeffery.Dukette@vermont.gov>

Thu 1/30/2020 8:16 AM

To: Malinowski, Michael <Michael.Malinowski@vermont.gov>

Yes, I did see that on the records. Honestly, I'm at a loss for what the problem is. We have replaced all of the parts and even have you an entire new instrument. We are unable to reproduce the errors at the lab as works just fine for extended periods of time. My suspicion is that it has to do with its location near a highly travelled egress. This causes quick changes to temperature and humidity causing condensation inside the instrument coupled with excess dust that can settle on the quartz wheel. That is my only hypothesis. For now, please remove it from service (again) and I will reach out.

I do apologize for how inconvenient this situation has been. We have been working on our end and with the instrument manufacturer to identify the issue with no apparent luck. The fact that we can't reproduce this issue at the lab suggests it is location specific. However, it doesn't explain why it's a problem now and not in the past. We understand your frustration and will do what we can.

Thanks for understanding,

Jeff

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**From:** Malinowski, Michael <Michael.Malinowski@vermont.gov>

**Sent:** Thursday, January 30, 2020 7:16:23 AM

**To:** Dukette, Jeffery <Jeffery.Dukette@vermont.gov>

**Subject:** DataMaster

Mr. Dukette,

Our datamaster is reading that it's having a calibration error again.

Sgt. Malinowski

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