

ROUTINE PERFORMANCE CHECK REPORT



DataMaster DMT: 100158
Location: NORTHFIELD PD
Calibration Date: 08/25/2020
Certification Date: 08/25/2020
Installation Date: 08/27/2020
RPC Date: 02/22/2021
Supervisor Name: MICHAEL R GERO

Diagnostic Results

VERSIONS
 DMT: 2.06
 PIC: 3.07
 Modem: 2.6
 Questions: 2.1

TEMPERATURES

Sample Chamber = 48.7°C
 Breath Tube = 42.6°C
 Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.57 V
 Cooler Voltage = 1.58 V
 Bias Voltage = 80 V
 Chopper Freq = 555 Hz

PUMP INFO

Flow Rate = 6.323 L/M

DETECTOR INFO

PUMP ON OFF
 MAX (V) -0.0459 -0.0419
 MIN (V) -0.0476 -0.0433

FILTER INFO

Filter 1 -0.039 Zero = true
 Filter 2 0.306 Zero = true
 Filter 3 1.286 Zero = true

CALIBRATION CHECK

Xq = 0.093 0.56%

Routine Performance Check Passed

Accuracy and Precision Check

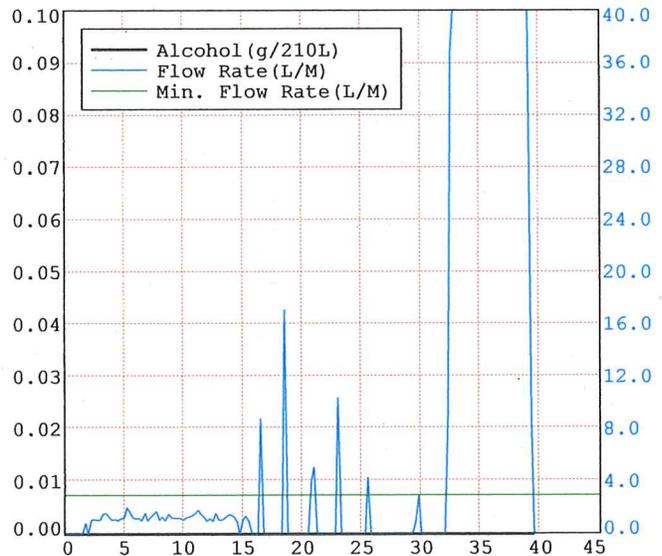
Concentration = 0.100 g/210L
 Lot # = 20-11-100
 Range = 0.095 - 0.105
 Average = 0.099 g/210L
 Std Dev = 0.0005

RF Detection Test

Passed
 RF detected

Sample Acceptance Test

Passed



Performed by smc sch

Date 02/22/2021

Reviewed by [Signature]

Date 2/23/21

[Handwritten signature]
3/1/21

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Diagnostic Results

VERSIONS

DMT: 2.06
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Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 42.3°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.57 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 557 Hz

PUMP INFO

Flow Rate = 6.269 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0927	-0.0876
MIN(V)	-0.0935	-0.0888

FILTER INFO

Filter 1	-0.078	Zero = true
Filter 2	0.271	Zero = true
Filter 3	1.252	Zero = true

CALIBRATION CHECK

Xq = 0.094 0.65%

Routine Performance Check Failed
Reason: RF NOT DETECTED

Accuracy and Precision Check

Concentration	= 0.100 g/210L
Lot #	= 20-11-100
Range	= 0.095 - 0.105
Average	= 0.100 g/210L
Std Dev	= 0.0012

RF Detection Test

Failed
RF not detected

Performed by _____

Date

02/22/2021

Reviewed by _____

Date

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Diagnostic Results

VERSIONS
DMT: 2.06
PIC: 3.07
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 43.6°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.57 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 557 Hz

PUMP INFO

Flow Rate = 6.392 L/M

DETECTOR INFO

PUMP ON OFF
MAX(V) -0.1026 -0.0980
MIN(V) -0.1043 -0.0992

FILTER INFO

Filter 1 -0.100 Zero = true
Filter 2 0.248 Zero = true
Filter 3 1.230 Zero = true

CALIBRATION CHECK

Xq = 0.094 0.74%

Routine Performance Check Failed

Reason: ACCURACY AND PRECISION CHECK FAILED

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev
Interference Detected

Performed by Michael R Gero Date 02/22/2021
Reviewed by _____ Date _____

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Diagnostic Results

VERSIONS

DMT: 2.06
PIC: 3.07
Modem: 2.6
Questions: 2.1

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 43.7°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.57 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 557 Hz

PUMP INFO

Flow Rate = 6.412 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0945	-0.0888
MIN(V)	-0.0959	-0.0902

FILTER INFO

Filter 1	-0.087	Zero = true
Filter 2	0.260	Zero = true
Filter 3	1.236	Zero = true

CALIBRATION CHECK

Xq = 0.093 0.56%

Routine Performance Check Failed

Reason: ACCURACY AND PRECISION CHECK FAILED

Accuracy and Precision Check

Concentration
Lot #
Range
Average
Std Dev
CALIBRATION CHECK ERROR

Performed by _____

Michael R Gero

Date

02/22/2021

Reviewed by _____

Date

Re: Sim Solution and DMT question

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

Tue 2021-02-23 9:21 AM

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

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

In reviewing the records, there is no need for further maintenance on the DMT. The passing RPC is sufficient.

We will get some sim solution sent to you.

Unless you have urgent questions, please forward questions/supply requests to DPS.DMT@vermont.gov. This is shared email by all VFL tox staff in case I am unavailable. (I don't check my personal email any more frequently than I do the shared email).

Thanks,

Jeff

From: Gero, Michael <Michael.Gero@vermont.gov>

Sent: Tuesday, February 23, 2021 5:09 AM

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

Subject: Sim Solution and DMT question

Sir;

I am out of simulator solution but have completed the RPC. Could I please have more solution?

Also when I did the RPC, it didn't check out initially. It did test out eventually, but do I need someone to do a closer exam? There were three faulty tests (the first I believe was a connection issue, the second timed out radio test, the third I inadvertently hit the touch screen and selected "Fail").

VR

Gero, MR

Corporal

Northfield PD

(802) 485-9181

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