

ANNUAL PREVENTATIVE MAINTENANCE



DataMaster DMT: 100158
Location: NORTHFIELD PD
Calibration Date: 08/25/2020
Certification Date: 08/25/2020
Installation Date: 08/27/2020
APM Date: 07/09/2021
Performed by: SARAH STRATTON

Diagnostic Results

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

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 43.9°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 = 6.354 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0246	0.0278
MIN(V)	0.0230	0.0268

FILTER INFO

Filter 1	0.031	Zero = true
Filter 2	0.377	Zero = true
Filter 3	1.345	Zero = true

CALIBRATION CHECK

Xq = 0.093 0.56%

APM PASSED

Simulator Vapor Test

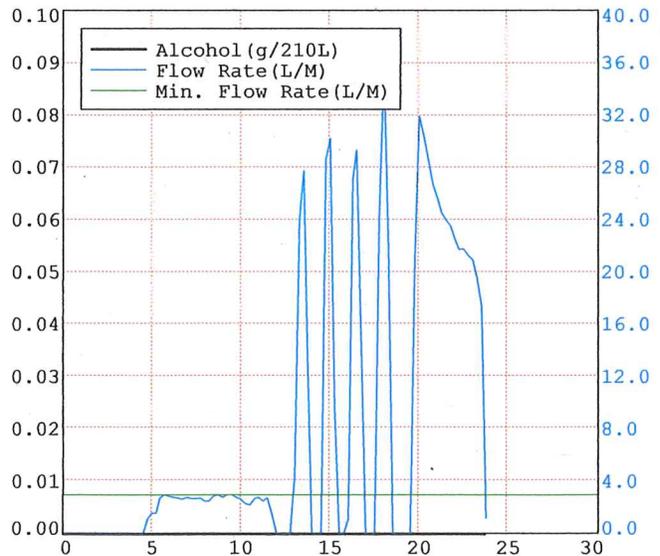
Concentration = 0.100 g/210L
Lot # = 21-04-100
Range = 0.095 - 0.105
Simulator Vapor = 0.100 g/210L

RF Detection Test

Passed
RF detected

Sample Acceptance Test

Passed



Performed by

SJS SJS

Date

07/09/2021

Reviewed by

AS

Date

7/13/21

DMT Serial Number #100158

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SJS

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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 = 44.8°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.57 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 558 Hz

PUMP INFO

Flow Rate = 6.376 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0026	0.0020
MIN (V)	-0.0041	0.0004

FILTER INFO

Filter 1	0.002	Zero = true
Filter 2	0.349	Zero = true
Filter 3	1.313	Zero = true

CALIBRATION CHECK

Xq = 0.090 3.53%

APM FAILED

First test of the sim read 0.102 (calculated from results in A&P portion of prior APM). No potential contaminants in DMT run and run in A&P test with consistent results (see 100158 TSI Northfield PD 07092021). Re-run APM. SDS 7/13/2021

Performed by

SDS SDS

Date

07/09/2021

Reviewed by

Date

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Performed by: SARAH STRATTON

Diagnostic Results

VERSIONS

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

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 45.5°C
Digital Sim = 34.0°C

SETTINGS

Lamp Voltage = 1.57 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 554 Hz

PUMP INFO

Flow Rate = 6.394 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX (V)	-0.0138	-0.0091
MIN (V)	-0.0152	-0.0102

FILTER INFO

Filter 1	-0.005	Zero = true
Filter 2	0.348	Zero = true
Filter 3	1.312	Zero = true

CALIBRATION CHECK

Xq = 0.095 1.11%

APM FAILED

During the RF test, the voltage increased significantly when the radio was keyed but no RF error was generated. Adjusted the RF sensitivity in the tech screen and re-ran the APM. SJS 7/13/2021

Performed by

SJS SJS

Date

07/09/2021

Reviewed by

Date

Simulator Temperature Check

Simulator Serial Number: MP3455

DMT Serial Number / Simulator Location: 100158 / Northfield PD

NIST Traceable Thermometer Serial Number: 210029857

As Found

Item	Thermometer Temperature	Simulator Temperature	Difference	Within Tolerance?*
Guth 12V500 Simulator	34.03°C	33.99°C	0.04	Y

* ± 0.10°C agreement between thermometer and simulator

* 34.0 ± 0.2°C acceptable range

Was temperature adjustment performed? Y / N

As Left (if applicable)

Item	Thermometer Temperature	Simulator Temperature	Difference	Within Tolerance?*
Guth 12V500 Simulator				

Notes:

Check Performed By: SJS

Date: 7/9/2021

Reviewed by: [Signature]

Date: 7/13/21