

4/10/2024

Perigon Health 360, LLC  
340 N. Main, Ste. 300  
Plymouth, MI 48170  
USA

Dear Jake Wright,

Enclosed is the EMC test report for testing of the Perigon Health 360, LLC, Medesto-Go tested to the requirements of FCC Part 2.1091 and RSS-102 Issue 6

Thank you for using the services of Eurofins E&E North America. If you have any questions regarding these results or if MET can be of further service to you, please do feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Nancy LaBrecque".

Nancy LaBrecque  
Documentation Department  
Eurofins Electrical and Electronic Testing NA, Inc.

Reference: WIRA128411 – MPE\_R1



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Eurofins MET Laboratories Inc. (Eurofins E&E North America) is part of the Eurofins Electrical & Electronics (E&E) global compliance network.

**RF Exposure Criteria  
Test Report  
Using Maximum Permissible Exposure (MPE) Calculations**

for the

**Perigon Health 360, LLC**  
Medesto-Go

**Tested under**

**FCC Part 2.1091 and RSS-102 Issue 6**

**Report: WIRA128411 – MPE\_R1**

4/10/2024



Bryan Taylor, Wireless Team Lead  
Electromagnetic Compatibility Lab



Nancy LaBrecque  
Documentation Department

**Engineering Statement:** The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules Part 15.247 under normal use and maintenance.



Matthew Hinojosa  
EMC Manager, Austin Electromagnetic Compatibility Lab

## Report Status Sheet

| Revision | Report Date | Reason for Revision               |
|----------|-------------|-----------------------------------|
| 0        | 3/11/2024   | Initial Issue.                    |
| 1        | 4/10/2024   | Changes requested by TCB reviewer |

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## List of Terms and Abbreviations

|                 |                                                                                                                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>AC</b>       | <b>Alternating Current</b>                                                                                                         |
| <b>ACF</b>      | <b>Antenna Correction Factor</b>                                                                                                   |
| <b>Cal</b>      | <b>Calibration</b>                                                                                                                 |
| <b><i>d</i></b> | <b>Measurement Distance</b>                                                                                                        |
| <b>dB</b>       | <b>Decibels</b>                                                                                                                    |
| <b>dBμA</b>     | <b>Decibels above one <b>micro</b>amp</b>                                                                                          |
| <b>dBμV</b>     | <b>Decibels above one <b>micro</b>volt</b>                                                                                         |
| <b>dBμA/m</b>   | <b>Decibels above one <b>micro</b>amp <b>per meter</b></b>                                                                         |
| <b>dBμV/m</b>   | <b>Decibels above one <b>micro</b>volt <b>per meter</b></b>                                                                        |
| <b>DC</b>       | <b>Direct Current</b>                                                                                                              |
| <b>E</b>        | <b>Electric Field</b>                                                                                                              |
| <b>DSL</b>      | <b>Digital Subscriber Line</b>                                                                                                     |
| <b>ESD</b>      | <b>Electrostatic Discharge</b>                                                                                                     |
| <b>EUT</b>      | <b>Equipment Under Test</b>                                                                                                        |
| <b><i>f</i></b> | <b>Frequency</b>                                                                                                                   |
| <b>CISPR</b>    | <b>Comite International Special des Perturbations Radioelectriques<br/>(International Special Committee on Radio Interference)</b> |
| <b>GRP</b>      | <b>Ground Reference Plane</b>                                                                                                      |
| <b>H</b>        | <b>Magnetic Field</b>                                                                                                              |
| <b>HCP</b>      | <b>Horizontal Coupling Plane</b>                                                                                                   |
| <b>Hz</b>       | <b>Hertz</b>                                                                                                                       |
| <b>IEC</b>      | <b>International Electrotechnical Commission</b>                                                                                   |
| <b>kHz</b>      | <b>kiloHertz</b>                                                                                                                   |
| <b>kPa</b>      | <b>kiloPascal</b>                                                                                                                  |
| <b>kV</b>       | <b>kilovolt</b>                                                                                                                    |
| <b>LISN</b>     | <b>Line Impedance Stabilization Network</b>                                                                                        |
| <b>MHz</b>      | <b>MegaHertz</b>                                                                                                                   |
| <b>μH</b>       | <b>microHenry</b>                                                                                                                  |
| <b>μF</b>       | <b>microFarad</b>                                                                                                                  |
| <b>μs</b>       | <b>microseconds</b>                                                                                                                |
| <b>PRF</b>      | <b>Pulse Repetition Frequency</b>                                                                                                  |
| <b>RF</b>       | <b>Radio Frequency</b>                                                                                                             |
| <b>RMS</b>      | <b>Root-Mean-Square</b>                                                                                                            |
| <b>V/m</b>      | <b>Volts <b>per meter</b></b>                                                                                                      |
| <b>VCP</b>      | <b>Vertical Coupling Plane</b>                                                                                                     |

1.0 Requirements Summary

| Page Number | Test Name                                                   | Result    |
|-------------|-------------------------------------------------------------|-----------|
| 12          | RSS-102 Issue 6 MPE Limits<br>(For General Public Exposure) | Compliant |
| 12          | FCC Part 2.1091 MPE Limits<br>(For General Public Exposure) | Compliant |

Table 1. Summary of Test Results

## 2.0 Equipment Configuration

### 2.1 Overview

Eurofins MET Labs was contracted by Perigon Health 360, LLC to perform testing on the Medesto-Go, under Perigon Health 360, LLC's purchase order number EUR081423.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Perigon Health 360, LLC Medesto-Go.

The results obtained relate only to the item(s) tested.

|                                       |                                                         |             |
|---------------------------------------|---------------------------------------------------------|-------------|
| <b>Model(s) Tested:</b>               | Medesto-Go                                              |             |
| <b>Model(s) Covered:</b>              | Medesto-Go                                              |             |
| <b>EUT Specifications:</b>            | Primary Power: 9VDC                                     |             |
|                                       | Type of Modulation(s):                                  | ASK         |
|                                       | Equipment Code:                                         | DXX         |
|                                       | Maximum field Strength:                                 | 30.65dBuV/m |
|                                       | Antenna Type:                                           | loop        |
|                                       | EUT Frequency Ranges:                                   | 13.56MHz    |
| <b>Analysis:</b>                      | The results obtained relate only to the item(s) tested. |             |
| <b>Environmental Test Conditions:</b> | Temperature: 15-35° C                                   |             |
|                                       | Relative Humidity: 30-60%                               |             |
|                                       | Barometric Pressure: 860-1060 mbar                      |             |
| <b>Evaluated by:</b>                  | Bryan Taylor and Sergio Gutierrez                       |             |
| <b>Test Date(s):</b>                  | 8/29/2023 to 9/11/2023                                  |             |

**Table 2. EUT Summary Table**

## 2.2 Test Site

All testing was performed at Eurofins E&E North America, Austin, TX. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

## 2.3 References

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <b>RSS-102: Issue 6</b> | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) |
| <b>FCC Part 2.1091</b>  | Radiofrequency radiation exposure evaluation: mobile devices.                                  |

**Table 3. References**

## 2.4 Description of Test Sample

The Medesto-Go (Model: Medesto-Go) is a RFID enabled medication dispenser.

## 2.5 Modifications

### 2.5.1 Modifications to EUT

No modifications were made to the EUT.

### 2.5.2 Modifications to Test Standard

No modifications were made to the test standard.

## 2.6 Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Perigon Health 360, LLC upon completion of testing.

## 3.0 Maximum Permissible Exposure Results

### 3.1 RSS-102 RF Exposure Limits

| Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)                      |                           |                                          |                                   |                            |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|-----------------------------------|----------------------------|
| Frequency Range (MHz)                                                                                                    | Electric Field (V/m rms)  | Magnetic Field (A/m rms)                 | Power Density (W/m <sup>2</sup> ) | Reference Period (minutes) |
| 0.003-10 <sup>21</sup>                                                                                                   | 83                        | 90                                       | -                                 | Instantaneous*             |
| 0.1-10                                                                                                                   | -                         | 0.73/ f                                  | -                                 | 6**                        |
| 1.1-10                                                                                                                   | 87/ f <sup>0.5</sup>      | -                                        | -                                 | 6**                        |
| 10-20                                                                                                                    | 27.46                     | 0.0728                                   | 2                                 | 6                          |
| 20-48                                                                                                                    | 58.07/ f <sup>0.25</sup>  | 0.1540/ f <sup>0.25</sup>                | 8.944/ f <sup>0.5</sup>           | 6                          |
| 48-300                                                                                                                   | 22.06                     | 0.05852                                  | 1.291                             | 6                          |
| 300-6000                                                                                                                 | 3.142 f <sup>0.3417</sup> | 0.008335 f <sup>0.3417</sup>             | 0.02619 f <sup>0.6834</sup>       | 6                          |
| 6000-15000                                                                                                               | 61.4                      | 0.163                                    | 10                                | 6                          |
| 15000-150000                                                                                                             | 61.4                      | 0.163                                    | 10                                | 616000/ f <sup>1.2</sup>   |
| 150000-300000                                                                                                            | 0.158 f <sup>0.5</sup>    | 4.21 x 10 <sup>-4</sup> f <sup>0.5</sup> | 6.67 x 10 <sup>-5</sup> f         | 616000/f <sup>1.2</sup>    |
| <b>Note:</b> f is frequency in MHz.<br>* Based on nerve stimulation (NS).<br>** Based on specific absorption rate (SAR). |                           |                                          |                                   |                            |

### 3.2 FCC Exposure Limits

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (i) Limits for Occupational/Controlled Exposure                |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | ≤6                       |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | <6                       |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | <6                       |
| 300-1,500                                                      |                               |                               | f/300                               | <6                       |
| 1,500-100,000                                                  |                               |                               | 5                                   | <6                       |
| (ii) Limits for General Population/Uncontrolled Exposure       |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | <30                      |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | <30                      |
| 30-300                                                         | 27.5                          | 0.073                         | 0.2                                 | <30                      |
| 300-1,500                                                      |                               |                               | f/1500                              | <30                      |
| 1,500-100,000                                                  |                               |                               | 1.0                                 | <30                      |
| f = frequency in MHz. * = Plane-wave equivalent power density. |                               |                               |                                     |                          |

### Test Procedure:

An MPE evaluation for was performed in order to show that the device was compliant with the general population exposure limits. The maximum power density was calculated for each transmitter band at a separation distance of 20cm using the field strength (converted to EIRP) measured as part of the FCC radio testing. The EIRP was calculated with the following equation:

$$\text{EIRP} = E_{\text{Meas}} + 20 \log (d_{\text{Meas}}) - 104.7$$

For each transmitter the maximum RF exposure at a 20 cm distance using the formula:

where

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| EIRP              | is the equivalent isotropically radiated power, in dBm                       |
| $E_{\text{Meas}}$ | is the field strength of the emission at the measurement distance, in dBμV/m |
| $d_{\text{Meas}}$ | is the measurement distance, in m                                            |

The EIRP was then converted from dBm to mW and used to calculate the power density with the following formula:

$$\text{Power Density} = \frac{\text{EIRP}_{\text{mw}}}{4\pi(20\text{cm})^2}$$

### Test Results:

The Medesto-Go was **compliant** with FCC Part 2.1091 and RSS-102 Issue 6. The calculated maximum power density at 20cm distance was equal to or less than the required limits for general population exposure for FCC Part 2.1091 and RSS-102 Issue 6. Additionally, the MPE to limit ratio for the worst case simultaneous transmission condition was less than 1.

**Test Data (FCC):**

| Duty Cycle       | 100 (%)         |                                        |                                           |                                 |                                 |                                       |                                     |
|------------------|-----------------|----------------------------------------|-------------------------------------------|---------------------------------|---------------------------------|---------------------------------------|-------------------------------------|
| Separation Dist. | 20 (cm)         |                                        |                                           |                                 |                                 |                                       |                                     |
| Operating Mode   | Frequency (MHz) | Measured Field Strength at 3m (dBuV/m) | ERP (Converted from Field Strength) (dBm) | MPE Value (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) | Margin to Limit (mW/cm <sup>2</sup> ) | MPE / Limit Ratio (for Co-Location) |
| RFID             | 13.56           | 30.65                                  | -64.51                                    | 7.0465E-11                      | 0.9789                          | 0.9789                                | 7.1981E-11                          |

| Duty Cycle       | 100 (%)         |                                                 |                                              |                   |                                 |                                 |                                       |                                     |        |
|------------------|-----------------|-------------------------------------------------|----------------------------------------------|-------------------|---------------------------------|---------------------------------|---------------------------------------|-------------------------------------|--------|
| Separation Dist. | 20 (cm)         |                                                 |                                              |                   |                                 |                                 |                                       |                                     |        |
| Operating Mode   | Frequency (MHz) | Declared Max Cond. Power (Inc. Tolerance) (dBm) | Duty Cycle Adjusted Cond. Output Power (dBm) | Antenna Gain (dB) | MPE Value (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) | Margin to Limit (mW/cm <sup>2</sup> ) | MPE / Limit Ratio (for Co-Location) |        |
|                  | LTE Band 2      | 1900                                            | 24                                           | 24.00             | 1.9                             | 0.0774                          | 1.0000                                | 0.9226                              | 0.0774 |
|                  | LTE Band 4      | 1700                                            | 24                                           | 24.00             | 1.9                             | 0.0774                          | 1.0000                                | 0.9226                              | 0.0774 |
|                  | LTE Band 5      | 850                                             | 24                                           | 24.00             | 1.8                             | 0.0756                          | 0.5667                                | 0.4910                              | 0.1335 |
|                  | LTE Band 12     | 700                                             | 24                                           | 24.00             | 1.8                             | 0.0756                          | 0.4667                                | 0.3910                              | 0.1621 |
|                  | LTE Band 13     | 700                                             | 24                                           | 24.00             | 1.8                             | 0.0756                          | 0.4667                                | 0.3910                              | 0.1621 |
|                  | LTE Band 14     | 700                                             | 24                                           | 24.00             | 1.8                             | 0.0756                          | 0.4667                                | 0.3910                              | 0.1621 |
|                  | LTE Band 17     | 700                                             | 24                                           | 24.00             | 1.8                             | 0.0756                          | 0.4667                                | 0.3910                              | 0.1621 |
|                  | LTE Band 25     | 1900                                            | 24                                           | 24.00             | 1.9                             | 0.0774                          | 1.0000                                | 0.9226                              | 0.0774 |
|                  | LTE Band 26     | 850                                             | 24                                           | 24.00             | 1.8                             | 0.0756                          | 0.5667                                | 0.4910                              | 0.1335 |
| LTE Band 66      | 1700            | 24                                              | 24.00                                        | 1.9               | 0.0774                          | 1.0000                          | 0.9226                                | 0.0774                              |        |

Worst Case LTE transmit mode (Band 13) + RFID MPE to Limit Ratio  
 $0.1621 + 7.1981 \times 10^{-11} = 1.6210 \times 10^{-1}$

**Test Engineer(s):** Bryan Taylor

**Test Date(s):** 8/29/2023

**Test Data (ISED):**

| Duty Cycle       | 100 (%)         |                                        |                                           |                               |                               |                                     |                                     |
|------------------|-----------------|----------------------------------------|-------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------------------|
| Separation Dist. | 20 (cm)         |                                        |                                           |                               |                               |                                     |                                     |
| Operating Mode   | Frequency (MHz) | Measured Field Strength at 3m (dBuV/m) | ERP (Converted from Field Strength) (dBm) | MPE Value (W/m <sup>2</sup> ) | MPE Limit (W/m <sup>2</sup> ) | Margin to Limit (W/m <sup>2</sup> ) | MPE / Limit Ratio (for Co-Location) |
| RFID             | 13.56           | 30.65                                  | -64.51                                    | 7.0465E-10                    | 2.0000                        | 2.0000                              | 3.5232E-10                          |

| Duty Cycle       | 100 (%)         |                                                 |                                              |                   |                               |                               |                                     |                                     |        |
|------------------|-----------------|-------------------------------------------------|----------------------------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------------------|--------|
| Separation Dist. | 20 (cm)         |                                                 |                                              |                   |                               |                               |                                     |                                     |        |
| Operating Mode   | Frequency (MHz) | Declared Max Cond. Power (Inc. Tolerance) (dBm) | Duty Cycle Adjusted Cond. Output Power (dBm) | Antenna Gain (dB) | MPE Value (W/m <sup>2</sup> ) | MPE Limit (W/m <sup>2</sup> ) | Margin to Limit (W/m <sup>2</sup> ) | MPE / Limit Ratio (for Co-Location) |        |
|                  | LTE Band 2      | 1900                                            | 24                                           | 24.00             | 1.9                           | 0.7740                        | 4.5586                              | 3.7847                              | 0.1698 |
|                  | LTE Band 4      | 1700                                            | 24                                           | 24.00             | 1.9                           | 0.7740                        | 4.2250                              | 3.4510                              | 0.1832 |
|                  | LTE Band 5      | 850                                             | 24                                           | 24.00             | 1.8                           | 0.7564                        | 2.6309                              | 1.8745                              | 0.2875 |
|                  | LTE Band 12     | 700                                             | 24                                           | 24.00             | 1.8                           | 0.7564                        | 2.3040                              | 1.5476                              | 0.3283 |
|                  | LTE Band 13     | 700                                             | 24                                           | 24.00             | 1.8                           | 0.7564                        | 2.3040                              | 1.5476                              | 0.3283 |
|                  | LTE Band 14     | 700                                             | 24                                           | 24.00             | 1.8                           | 0.7564                        | 2.3040                              | 1.5476                              | 0.3283 |
|                  | LTE Band 17     | 700                                             | 24                                           | 24.00             | 1.8                           | 0.7564                        | 2.3040                              | 1.5476                              | 0.3283 |
|                  | LTE Band 25     | 1900                                            | 24                                           | 24.00             | 1.9                           | 0.7740                        | 4.5586                              | 3.7847                              | 0.1698 |
|                  | LTE Band 26     | 850                                             | 24                                           | 24.00             | 1.8                           | 0.7564                        | 2.6309                              | 1.8745                              | 0.2875 |
|                  | LTE Band 66     | 1700                                            | 24                                           | 24.00             | 1.9                           | 0.7740                        | 4.2250                              | 3.4510                              | 0.1832 |

Worst Case LTE transmit mode (Band 13) + RFID MPE to Limit Ratio  
 $0.3283 + 3.5232 \times 10^{-10} = 3.283 \times 10^{-1}$

**Test Engineer(s):** Bryan Taylor

**Test Date(s):** 8/29/2023