



Test Report

Prepared for: AMI Global LLC

Model: VAPOR-C & Cornell PILOT

Description: Smart Communication Gateway

Serial Number: NA

FCC ID: 2AQ9C-VAPOR-C18

To

FCC Part 1.1310

Date of Issue: February 14, 2019

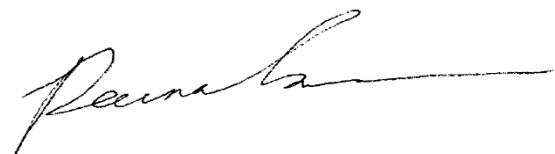
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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	September 20, 2018	Poona Saber	Original Document
2.0	January 15, 2019	Poona Saber	Revised calculation on page 4 Updated model & description
3.0	February 12,2019	Poona Saber	Revised equation on page 4, revised model on page 1 & 3



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The tests results contained within this test report all fall within our scope of accreditation, unless below

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FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: VAPOR-C & Cornell PILOT

Description: Smart Communication Gateway

Firmware: N/A

Software: N/A

Serial Number: N/A

Additional Information: Device under test is a vibration/temperature monitoring which updates its data to the cloud using different communication modes- the 900 MHz radio with frequency range of 903.9-925.9. The antenna used with 900 MHz transceiver is permanently on the board and it has a 2 dBi gain.



Below is Calculation for SAR exclusion per KDB 447498.

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, } mW)/(\text{min. test separation distance, } mm)] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 25 where}$

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is $<$ 5 mm, a distance of 5 mm according to 5) in section 4.1 in KDB 447498 is applied to determine SAR test exclusion.

The Maximum output power per manufacturer declaration is -5.06 dBm.

$$\frac{0.3 \text{ mW}}{5 \text{ mm}} \cdot \sqrt{0.9139 \text{ GHz}} = 0.06$$

Since the above number is below 1-g SAR limit this device is excluded for SAR measurements

END OF TEST REPORT