



## FCC/ISED Test Report

**FOR:**  
Smart Meter, LLC

**Model Number:**  
GM291-v2

**Product Description:**  
Blood Glucose measurement device with 4G-CAT-M1 connectivity

**FCC ID:** 2AHYZGM291CAT-M1

**Per:**  
47 CFR: Part 22, Part 24, Part 27

**REPORT #:** EMC\_KORET\_019\_19001\_FCC\_22\_24\_27

**DATE:** 2020-02-07



A2LA Accredited

IC recognized #  
3462B-2

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**1 Assessment**

The following device as further described in section 3 of this report was evaluated against the E(I)RP requirements as specified in the Code of Federal Regulations Title 47 parts 22, 24, 27.

Company	Description	Model #
Smart Meter, LLC	Blood Glucose measurement device with 4G-CAT-M1 connectivity	GM291-v2

No deficiencies were ascertained.

**Responsible for the Report:**

2020-02-07	Compliance	Kris Lazarov (Sr. EMC Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section 3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

## 2 Administrative Data

### 2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

<b>Company Name:</b>	CETECOM Inc.
<b>Department:</b>	Compliance
<b>Street Address:</b>	411 Dixon Landing Road
<b>City/Zip Code</b>	Milpitas, CA 95035
<b>Country</b>	USA
<b>Telephone:</b>	+1 (408) 586 6200
<b>Fax:</b>	+1 (408) 586 6299
<b>Lab Manager:</b>	Cindy Li
<b>Responsible Project Leader:</b>	Cathy Palacios

### 2.2 Identification of the Client

<b>Applicant's Name:</b>	Smart Meter, LLC
<b>Street Address:</b>	201 E. Kennedy Blvd.
<b>City/Zip Code</b>	Tampa, 33602
<b>Country</b>	USA

### 2.3 Identification of the Manufacturer

<b>Manufacturer's Name:</b>	Same as Client
<b>Manufacturers Address:</b>	
<b>City/Zip Code</b>	
<b>Country</b>	

### 3 Equipment Under Test (EUT)

#### 3.1 EUT Specifications

<b>Supported Radio Bands:</b>	Cat-M1 / NB Band 2, 4 and 12. Bands 5 and 13 which are supported in the module XPY2AGQN4NNN have been disabled.
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#### 3.2 EUT Sample details

NA. Report is based on calculation

### 4 Results Summary

#### 4.1 FCC 22, 24, 27:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §22.913 (a); §24.232 (a); §27.50 (d)	RF Output Power	NA. Calculation based on conducted powers and gains	-	■	□	□	□	

## 5 Test Result Data

### 5.1 E(I)RP

The following conducted powers are on file with the module SARA 410M FCC ID: XPY2AGQN4NNN on which 2AHYZGM291CAT-M1 is based.

F low	F high	Power W	Freq dev	Emission Identifier	Radio	Rulepart
699	716	0.269	1 ppm	1M11W7D	PCT	27
699	716	0.148	1 ppm	134KF7W	PCT	27
1710	1755.0	0.245	1 ppm	1M24G7D	PCT	27
1710	1755	0.188	1 ppm	78K7F9W	PCT	27
1850	1910	0.302	1 ppm	1M12G7D	PCT	24E
1850.0	1910	0.199	1 ppm	132KF7W	PCT	24E

The antenna used has the following gains, calculated from the CTIA OTA EIRP measurements of the host product 2AHYZGM291CAT-M1.

	EIRP dBm	Gain dBi
Band 2	24.1	-0.70
Band 4	24.1	0.21
Band 12	20.2	-1.95

This leads to the following emissions in ERP below 1 GHz and EIRP above 1 GHz for 2AHYZGM291CAT-M1.

F low	F high	Power W	Freq dev	Emission Identifier	Radio	Rulepart	Gain [dBm]	Gain [lin]	Power ERP / EIRP [W]
699	716	0.269	1 ppm	1M11W7D	PCT	27	-1.95	0.64	0.28
699	716	0.148	1 ppm	134KF7W	PCT	27	-1.95	0.64	0.15
1710	1755.0	0.245	1 ppm	1M24G7D	PCT	27	0.21	1.05	0.26
1710	1755	0.188	1 ppm	78K7F9W	PCT	27	0.21	1.05	0.20
1850	1910	0.302	1 ppm	1M12G7D	PCT	24E	-0.7	0.85	0.26
1850.0	1910	0.199	1 ppm	132KF7W	PCT	24E	-0.7	0.85	0.17

## 6 Revision History

Date	Report Name	Changes to report	Report prepared by
2020-02-07	EMC_KORET_019_19001_FCC_22_24_27	Initial version	Kris Lazarov