

# RF Exposure Report

**Project Number:** 4038087

**Report Number:** 4038087EMC03

**Revision Level:** 0

**Client:** Arrayent Health LLC, DBA Ambio Health

**Equipment Under Test:** Cellular Gateway

**Model:** 1-020-02

**FCC ID:** Q4O-1-21

**Applicable Standards:** 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

**FCC OET Bulletin 65 Supplement**

**Report issued on:** 12 December 2016

**Test Result:** Compliant

**Reviewed by:**

  
\_\_\_\_\_  
Jeremy Pickens, Senior EMC Engineer

**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 1 General Information

### 1.1 *Client Information*

Name: Arrayent Health LLC, DBA Ambio Health  
Address: Soundview Plaza, Suite 700R  
1266 E Main Street  
City, State, Zip, Country: Stamford, CT 06902

### 1.2 *Test Laboratory*

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA  
Type of lab: Testing Laboratory  
Certificate Number: 3212.01

### 1.3 *General Information of EUT*

EUT: Cellular Gateway  
Model Number: 1-020-02

Frequency Range: 908.4 to 919.65 MHz  
Channels: 11  
Modulation type: GFSK (100k BAUD)

Antenna: 7cm Wire (Not detachable or replaceable by end user)

Rated Voltage: 5 Vdc Supplied by AC/DC adapter

Sample Received Date: 26 September 2016

### 1.4 *Operating Modes and Conditions*

For this assessment, the chip's maximum output power of 10dBm (defined in the Theory of Operation) was used. Although the measured EIRP was ~7dBm, a 0dBi antenna gain was applied as a worst-case calculation.

## 2 RF Exposure

### 2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

### 2.2 Test Method

Using the maximum conducted power, the power density was calculated.

### 2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density EIRP <sub>Avg</sub> /(4πR <sup>2</sup> )	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW	mW/cm <sup>2</sup>		
2-FSK	902-928	10.0	0.0	0.0	10.0	10	20	0.002	0.60	0%	Pass

### 3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	12 December 2016