

## RF Exposure Report

**Report No.:** SA171122E04

**FCC ID:** 2AOKWBT-058

**Test Model:** BT-058 Flow Meter

**Received Date:** Nov. 22, 2017

**Test Date:** Dec. 08, 2017

**Issued Date:** Dec. 28, 2017

**Applicant:** Savant Electronics Inc.

**Address:** NO. 2088-3, Sec. 1, Huanzhong Rd., Xitun Dist., Taichung City 40761, Taiwan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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### Release Control Record

Issue No.	Description	Date Issued
SA171122E04	Original release.	Dec. 28, 2017

## 1 Certificate of Conformity

**Product:** iMeter BT Flow Meter

**Brand:** Savant

**Test Model:** BT-058 Flow Meter

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Savant Electronics Inc.

**Test Date:** Dec. 08, 2017

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** Cindy Hsin , **Date:** Dec. 28, 2017  
Cindy Hsin / Specialist

**Approved by :** May Chen , **Date:** Dec. 28, 2017  
May Chen / Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
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
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

### 2.4 Antenna Gain

Antenna Gain (dBi)	Frequency range (GHz)	Antenna Type	Antenna Connector
1.54	2.4-2.4835	Printed	none

## 2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2402-2480	1.416	1.54	20	0.00040	1

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