

74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA TEL: +82-31-645-6300 FAX: +82-31-645-6401

## **FCC MPE REPORT**

#### Certification

Applicant Name:

WISOL CO., LTD

Address:

531-7, Gajang-ro, Osan-si Gyeonggi-do, 18103, Korea

Date of Issue:

February 15, 2017 **Test Site/Location:** 

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383,

Rep. of KOREA

Report No.: HCT-R-1702-E005

HCT FRN: 0005866421

FCC ID:

2ABA2SFM10R4

**APPLICANT:** 

WISOL CO., LTD

Model(s):

SFM10R4

**EUT Type:** 

Sigfox module

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by : Jung Lae Cho

Test engineer of RF Team

Approved by : Jong Seok Lee

Manager of RF Team

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Report No.: HCT-R-1702-E005 Model: SFM10R4 Page 2 of 4

# **Version**

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1702-E005	February 15, 2017	- First Approval Report



Report No.: HCT-R-1702-E005 Model: SFM10R4 Page 3 of 4

# **RF Exposure Statement**

## 1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

#### (B) Limits for General Population/Uncontrolled Exposures

Frequency range	Electric field	Magnetic field	Power density	Averaging time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)	(minutes)
0.3 - 1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/ f²) 0.2 f/1500 1.0	30 30 30 30 30

F = frequency in MHz

### 2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

 $S = PG/4\pi R^2$ 

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

<sup>\* =</sup> Plane-wave equivalent power density



Report No.: HCT-R-1702-E005 Model: SFM10R4 Page 4 of 4

## 3.RESULTS

Max Peak output Power at antenna input terminal	23.107	dBm
Plax Feak output Fower at antenna input terminal	23.107	иын
Max Peak output Power at antenna input terminal	204.503	mW
Prediction distance	20.000	cm
Prediction frequency	920.138	MHz
Antenna Gain(typical)	2.100	dBi
Antenna Gain(numeric)	1.622	-
Power density at prediction frequency(S)	0.066	mW/cm <sup>2</sup>
MPE limit for uncontrolled exposure at prediction frequency	0.613	mW/cm <sup>2</sup>