RF Exposure Report

Report No.: SA170329E05B

FCC ID: YAISN10-12T

Test Model: SN10-12

Received Date: Aug. 17, 2017

Test Date: Sep. 20, 2017

Issued Date: Oct. 03, 2017

Applicant: InnoComm Mobile Technology Corp.

Address: 3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 30078, Taiwan

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

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
SA170329E05B	Original release.	Oct. 03, 2017

1 Certificate of Conformity

Product:	SigFox module
Brand:	InnoComm
Test Model:	SN10-12
Sample Status:	ENGINEERING SAMPLE
Applicant:	InnoComm Mobile Technology Corp.
Test Date:	Sep. 20, 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.
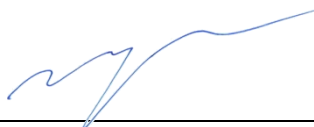
Prepared by : _____ , **Date:** _____ Oct. 03, 2017 _____

Claire Kuan / Specialist

Approved by : _____ , **Date:** _____ Oct. 03, 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^2)	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^2)*	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^2

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

Brand	Model	Antenna Gain(dBi)	Frequency range	Antenna Type	Connector type
InnoComm	SN10-12	-2	850~930MHz	PCB	NA

2.5 Calculation Result of Maximum Conducted Power

Frequency (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
902.1375~ 904.6625	192.752	-2	20	0.02420	0.60142
920.1375 ~ 922.6625	198.153	-2	20	0.02487	0.61342

Note: Limit of Power Density= f/1500

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