

## RF Exposure Report

**Report No.:** SA171129D05

**FCC ID:** P27TP202134134

**Test Model:** INTTP202134134

**Received Date:** Nov. 29, 2017

**Test Date:** Dec. 25 ~ 27, 2017

**Issued Date:** Jan. 11, 2018

**Applicant:** Sercomm Corp.

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

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### Release Control Record

Issue No.	Description	Date Issued
SA171129D05	Original release.	Jan. 11, 2018

## 1 Certificate of Conformity

**Product:** Verizon LTE

**Brand:** Verizon

**Test Model:** INTTP202134134

**Sample Status:** Engineering sample

**Applicant:** Sercomm Corp.

**Test Date:** Dec. 25 ~ 27, 2017

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

KDB 447498 D03

IEEE C95.1

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.

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**Approved by :** Rex Lai, **Date:** Jan. 11, 2018  
Rex Lai / Associate Technical 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				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 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**.

### 3 Calculation Result Of Maximum Conducted Power

Mode A:

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
LTE Band 4: 2115.0MHz ~ 2150.0MHz	24.06	20	0.0507	1

Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
LTE Band 13: 751MHz	21.36	23.51	20	0.0446	0.50

Note: EIRP = ERP + 2.15

Mode B:

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
LTE Band 4: 2115.0MHz ~ 2150.0MHz	23.97	20	0.0496	1

Frequency Band (MHz)	ERP (dBm)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
LTE Band 13: 751MHz	20.98	23.13	20	0.0409	0.50

Note: EIRP = ERP + 2.15

#### Conclusion:

The formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$\text{LTE Band 4 (Mode A) + LTE Band 13 (Mode A) + LTE Band 4 (Mode B) + LTE Band 13 (Mode B)} \\ = 0.0507/1 + 0.0446/0.50 + 0.0496/1 + 0.0409/0.50 = 0.2713$$

Therefore the maximum calculations of above situations are less than the "1" limit.

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