

## RF Exposure Report

**Report No.:** SA190524D09

**FCC ID:** P27BC950NA4

**Test Model:** BC950NA4

**Series Model:** BC950NA4yxxxxxxx, BC950NA4Cyxxxxxxx (y should be "blank" or "-"; x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose) (See section 2.4 for more details)

**Received Date:** May 24, 2019

**Date of Evaluation:** Jun. 17, 2019

**Issued Date:** Jun. 19, 2019

**Applicant:** Sercomm Corp.

**Address:** 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C. (NanKang Software Park)

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

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

**Test Location:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Vil, Kwei Shan Dist., Taoyuan City 33383, Taiwan (R.O.C)

**FCC Registration /  
Designation Number:** 788550 / TW0003



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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### Release Control Record

Issue No.	Description	Date Issued
SA190524D09	Original Release	Jun. 19, 2019

## 1 Certificate of Conformity

**Product:** LTE Battery Camera

**Brand:** Sercomm

**Test Model:** BC950NA4

**Series Model:** BC950NA4yxxxxxx, BC950NA4Cyxxxxxx (y should be "blank" or "-"; x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose) (See section 3.2.1 for more details)

**Sample Status:** Engineering Sample

**Applicant:** Sercomm Corp.

**Date of Evaluation:** Jun. 17, 2019

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

KDB 447498 D01 General RF Exposure Guidance v06

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 RF characteristics under the conditions specified in this report.


**Prepared by :**



**Date:** Jun. 19, 2019

Rona Chen / Specialist

**Approved by :**



**Date:** Jun. 19, 2019

Dylan Chiou / Project Engineer

## 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 Description of EUT

All models are listed as below.

Product	Brand	Model	Difference
LTE Battery Camera	Sercomm	BC950NA4yxxxxxxxx	With GPS function
		BC950NA4Cyxxxxxxxx	Without GPS function

(y should be "blank" or "-"; x could be 0 to 9, A to Z, a to z, "blank" or "-", for marketing purpose)

## 2.5 Antenna Gain

Antenna Type	Gain (dBi)				
	WCDMA II / LTE Band 2	LTE Band 4	WCDMA V / LTE Band 5	LTE Band 12	LTE Band 13
PIFA	2.94	2.88	-0.98	-2.90	-0.14

## 2.6 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WCDMA II	1850-1910	23.52	2.94	20	0.088	1.00
WCDMA V	824-849	24.09	-0.98	20	0.041	0.55
LTE 2	1850-1910	22.75	2.94	20	0.074	1.00
LTE 4	1710-1755	22.75	2.88	20	0.073	1.00
LTE 5	824-849	23.11	-0.98	20	0.032	0.55
LTE 12	699-716	23.09	-2.90	20	0.021	0.47
LTE 13	777-787	22.94	-0.14	20	0.038	0.52

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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