

RF Exposure Report

Report No.: SABEIH-WTW-P21050758

FCC ID: P27-SCE4255W

Test Model: SCE4255W

Received Date: May 19, 2021

Test Date: Aug. 20 to Nov. 8, 2021

Issued Date: Jan. 5, 2022

Applicant: Sercomm Corp.

Address: 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.

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

Test Location: No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

**FCC Registration /
Designation Number:** 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
SABEIH-WTW-P21050758	Original release.	Jan. 5, 2022

1 Certificate of Conformity

Product: Englewood

Brand: Sercomm

Test Model: SCE4255W

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: Aug. 20 to Nov. 8, 2021

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: 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: Jan. 5, 2022

Celia Chen / Supervisor

Approved by :



Date: Jan. 5, 2022

Jeremy Lin / 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 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

$$Pd = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

Pd = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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

The antennas provided to the EUT, please refer to the following table: (additional as shaded area)

TX Antenna		Antenna Type	Antenna Connector	Antenna Gain (dBi)	Frequency Range
Internal	Ant 1	PIFA	I-PEX	5.30	3.5~3.7GHz
	Ant 2			5.26	
	Ant 3			5.48	
	Ant 4			5.68	
External	Ant 1	Dipole	N-Type	5.0	3.5~3.7GHz
	Ant 2			5.0	
	Ant 3			5.0	
	Ant 4			5.0	

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
CBRS band: 3555 ~ 3695	26.53	20	0.0895	1

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

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