

FCC RF Exposure Report

Report No.: SABEIH-WTW-P21050760

FCC ID: P27GEN3505D

Test Model: OC3505D

Received Date: May 20, 2021

Test Date: Jul. 05 ~ Jul. 19, 2021

Issued Date: Aug. 04, 2021

Applicant: Sercomm Corp.

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

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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-P21050760	Original release	Aug. 04, 2021

1 Certificate of Conformity

Product: CBRS Fixed Wireless CPE

Brand: Sercomm

Test Model: OC3505D

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: Jul. 05 ~ Jul. 19, 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 : Pettie Chen , **Date:** Aug. 04, 2021
Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Aug. 04, 2021
Bruce Chen / Senior 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

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

where

P_d = 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**.

3 Calculation Result of Maximum Density Power

Function	Frequency Band (MHz)	EIRP (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
LTE Band 48 (Per 10M)	3552.5-3697.5	22.86	20	0.038	1
LTE Band 48 (Full Power)	3552.5-3697.5	22.90	20	0.039	1

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

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