

# **RF Exposure Report**

Report No.: FCC\_RF Exposure\_SL21030302-CMM-011\_B14

FCC ID: QHYRPM-A5A11-B14

Test Model: RPM-A5A11-B14

Host Name: RP5200 Base Band Module

Series Model: N/A

Received Date: 03/16/2021

Test Date: 04/16/2021-04/22/2021

Issued Date: 04/26/2021

Standards: FCC Part 2 (Section 2.1093) KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.1-1992

Applicant: CommScope

Address: 900 Chelmsford St, Lowell, MA 01851

Issued By: Bureau Veritas Consumer Products Services, Inc.

Lab Address: 775 Montague Expressway, Milpitas, CA 95035

Test Location (1): 775 Montague Expressway, Milpitas, CA 95035

FCC Registration / 540430 **Designation Number:** 

ISED# / CAB identifier: 4842D



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# **Release Control Record**

Issue No.	Description	Date Issued
FCC_RF Exposure_SL21030302-CMM-011_B14	Orignal Release	04/26/2021



#### **Certificate of Conformity** 1

Product:	OneCell Radio Point			
Brand:	CommScope			
Test Model:	RPM-A5A11-B14			
Host Name:	RP5200 Base Band Module			
Series Model:	N/A			
Sample Status:	Sample Received in good condition			
Applicant:	CommScope			
Test Date:	04/16/2021-04/22/2021			
Standards:	FCC Part 2 (Section 2.1093)			
	KDB 447498 D01 General RF Exposure Guidance v06			
	IEEE C95.1-1992			

The above equipment has been tested by Bureau Veritas Consumer Products Services, Inc., Littleton 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.

Date:

04/26/2021

Approved by :

kin

Date:

04/26/2021

Deon Dai / Engineer Reviewer



# 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/f²)*	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

The antenna type is PCB antenna with 4 dBi gain.



Frequency (MHz)	Max Power (dBm)	Max Power (mW)	Turn-Up Tolerance	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
763	24.44	277.97	±1dB	4	20	0.17	0.508

# 2.5 Calculation Result of Maximum Conducted Power

Note:

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

# 3 Conclusion

### Conclusion:

MPE = 0.17 mW/cm2 < 0.508 mW/cm2

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