

RF Exposure Evaluation Report

Equipment under Test : Bluetooth Module
Model No. : R8002
FCC ID : V3DR8002
Applicant : Riotec Co. Ltd.
Address : 8F., No.196-2, Sec. 3, Datong Rd., Xizhi Dist.,
New Taipei City 221, Taiwan
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Prepared by

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1 Requirement for Compliance

According to FCC 2.1093 and 1.1310, exposure requirement is

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

Formula:

$$S = \frac{P_T G}{4\pi d^2}$$

S=Power Density(mW/cm²)

P= power input to antenna(mW)

G=Antenna Gain

d= Distance(cm)

Frequency Range (MHz)	Maximum Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2402~2480	0.7	2	20	0.0004	1

2 Result

According to result, the SAR testing for this device is not required.