

FCC RF EXPOSURE REPORT

FCC ID: XMR202206FC908A

Project No. : 2205H018
Equipment : WIFI&BT Module
Brand Name : Quectel
Test Model : FC908A
Series Model : N/A
Applicant : Quectel Wireless Solutions Co., Ltd
Address : Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer : Quectel Wireless Solutions Co., Ltd
Address : Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Date of Receipt : Jun. 10, 2022
Date of Test : Jun. 13, 2022~Jun. 27, 2022
Issued Date : Jul. 21, 2022
Report Version : R01
Test Sample : Engineering Sample No.: SH2022061083 for EUT, SH2022061079-17 for adapter.
Standard(s) : FCC Title 47 Part 2.1091
KDB 447498 D01 General RF exposure guidance v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Maker Qi

Prepared by : Maker Qi



TESTING CERT #5123.03

Approved by : Ryan Wang

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2205H018	R00	Original Report	Jul. 12, 2022	Invalid
BTL-FCCP-4-2205H018	R01	Revised report to address TCB's comments.	Jul. 21, 2022	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:


S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

- 1 Table for Filed Antenna:
For 2.4G WiFi & BLE & BT:

Brand	P/N	Antenna Type	Connector	Gain (dBi)
	YE0038AA	Dipole	SMA Male	0.52

Note:

- 1) The antenna gain is provided by the manufacturer.
- 2) The antenna is for testing only and will not be sold with the equipment.

2. TEST RESULTS

For BLE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.52	1.1272	10.50	11.2202	0.002516	1	Complies

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.52	1.1272	10.50	11.2202	0.002516	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.52	1.1272	25.00	316.2278	0.070914	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report