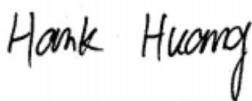


RF Exposure Evaluation Report

APPLICANT : Quectel Wireless Solutions Co., Ltd.
EQUIPMENT : LTE cat 1 bis
BRAND NAME : Quectel
MODEL NAME : EG915Q-NAD
FCC ID : XMREG915QNAD
STANDARD : 47 CFR Part 2.1091
FCC KDB 447498 D01 v06

The product was received on Aug. 04, 2026. The product evaluation date was started from Aug. 26, 2026 and completed on Aug. 26, 2026. We, Sporton International Inc. (Shenzhen), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.



Approved by: Hank Huang

Sporton International Inc. (Shenzhen)

***1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China***



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**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA680404-R01	Rev. 01	Initial issue of report.	Oct. 08, 2026



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant	
Company Name	Quectel Wireless Solutions Co., Ltd.
Address	No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China
Contact Name	Jean Hu
TEL	+86-21-51086236

Manufacturer	
Company Name	Quectel Wireless Solutions Co., Ltd.
Address	No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	LTE cat 1 bis
Brand Name	Quectel
Model Name	EG915Q-NAD
FCC ID	XMREG915QNAD
Wireless Technology and Frequency Range	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz
Mode	LTE: QPSK, 16QAM
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples: Sample 1 with GNSS and Sample 2 without GNSS. The differences do not affect the MPE analysis results.

Comments and Explanations:

1. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.
2. The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.
3. The applicant is solely responsible for the accuracy and correctness of all applicant-provided information, specifications, and data in this report.

Reviewed by: David Dai



3. Maximum RF average output tune up power among production units

<LTE>

Mode		Maximum Average power(dBm)
LTE	Band 2	25.00
	Band 4	25.00
	Band 5	25.00
	Band 12	25.00
	Band 13	25.00
	Band 25	25.00
	Band 66	25.00
	Band 71	25.00

4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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
300-1500			f/300	6
1500-100,000			5	6
(B) 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

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna



5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Band	Frequency (MHz)	Maximum Power (dBm)	MPE evaluation distance (cm)	FCC ERP/EIRP Limit (W)	Power Density for Max Gain to meet FCC ERP/EIRP and MPE limit (mW/cm ²)	Power Density for Max gain allowed (mW/cm ²)	FCC MPE Limit (mW)/cm ²	FCC MPE Result / FCC MPE Limit Ratio	Ant Gain to meet FCC MPE limit (dBi)	Ant Gain to meet FCC ERP/EIRP limit (dBi)	Max Gain to meet FCC ERP/EIRP and MPE limit (dBi)	Max Gain to consider same Frequency	Max gain allowed (dBi)
LTE Band 2	1850.0	25.00	20.00	2.000	0.397	0.397	1.000	0.397	12.0	8.0	8.0	8.0	8.0
LTE Band 4	1710.0	25.00	20.00	1.000	0.199	0.199	1.000	0.199	12.0	5.0	5.0	5.0	5.0
LTE Band 5	824.0	25.00	20.00	7.000	0.548	0.397	0.549	0.723	9.4	13.4	9.4	8.0	8.0
LTE Band 12	699.0	25.00	20.00	3.000	0.456	0.397	0.466	0.852	8.6	9.7	8.6	8.0	8.0
LTE Band 13	777.0	25.00	20.00	3.000	0.512	0.397	0.518	0.767	9.1	9.7	9.1	8.0	8.0
LTE Band 25	1850.0	25.00	20.00	2.000	0.397	0.397	1.000	0.397	12.0	8.0	8.0	8.0	8.0
LTE Band 66	1710.0	25.00	20.00	1.000	0.199	0.199	1.000	0.199	12.0	5.0	5.0	5.0	5.0
LTE Band 71	663.0	25.00	20.00	3.000	0.435	0.435	0.442	0.985	8.4	9.7	8.4	8.4	8.4

Note:

1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.
2. Chose the maximum power to do MPE analysis.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

-----THE END-----