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### **TEST REPORT**

Test Result :	PASS *
Date of Issue:	2023/06/29
Date of Test:	2023/06/25 to 2023/06/25
Date of Receipt:	2023/05/12
Standards:	47 CFR Part 96.47
FCC ID:	XMR202307EM060KNA
Trade Mark:	Quectel
Model No.:	EM060K-NA
EUT Description:	LTE-A Cat 6 M.2 Module
Address of Manufacturer:	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 of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Applicant:	Quectel Wireless Solutions Co., Ltd.
Application No.:	ZEWA2305000087RG

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Ervin 22

Ervin Li Regulatory Manager



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### 1 Version

		<b>Revision Record</b>		
Version	Chapter	Date	Modifier	Remark
01		2023/06/29		Original

Prepared By	Dee.Zheng	
	(Dee Zheng) / Test Engineer	
Checked By	Daniel Wang	
	(Daniel Wang) / Reviewer	



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### 2 Test Summary

Test Item	FCC Rule No.	Test Result	Verdict
End User Device additional requiement	§96.47	Clause 4.1	Pass



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	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 of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China	
Post code:	518057	
Test engineer:	Dee Zheng	

### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch has been recognized as an accredited testing laboratory.

Designation Number: CN1336.

Test Firm Registration Number: 787754



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#### 3.4 General Description of EUT

EUT Description:	LTE-A Cat 6 M.2 Module
Model No.:	EM060K-NA
Trade Mark:	Quectel
Hardware Version:	R1.0
Software Version:	EM060KNAAAR01A02M2G
Power Supply:	3.8V(DC Supply)
IMEI:	863550060001682
Antenna Type:	🖾 External, 🗌 Integrated
Transmitter Frequnecy Band:	LTE Band 48
Transmitter Frequnecy Range:	3550 to 3700 MHz
	LTE Band 48: -2.00dBi
Antenna Gain:	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
Remark:	
As above information is provided suitability, reliability or/and integ	d and confirmed by the applicant. SGS is not liable to the accuracy, rity of the information.



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#### 3.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.7
Remark:		
NV: Normal Voltage NT: Nor	mal Temperature	

#### 3.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board*	Quectel	N/A
Router	NETGEAR	R7800
Remark: the information with"*" are provided by client.		



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### 4 Description of Tests

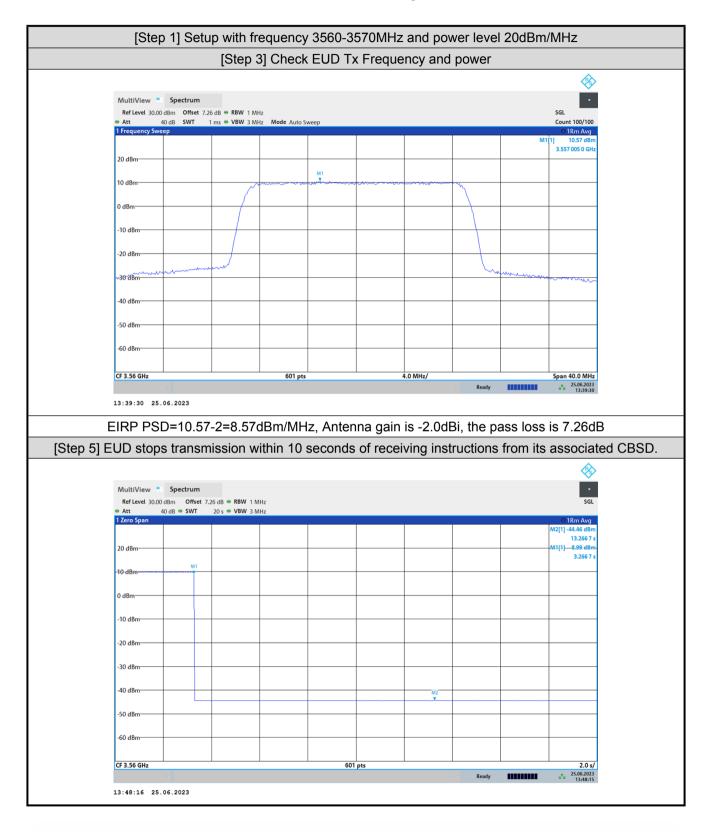
#### 4.1 End User Device additional requiement

Test Requirement:	FCC Part 96.47	
Test Method:	WINNF-18-IN-00178 CBRS End User Devices as UUT Test Guidelines	
Requirement:	<ul> <li>(a)End User Devices may operate only if they can positively receive and decode anauthorization signal transmitted by a CBSD, including the frequencies and power limits fortheir operation.</li> <li>(1)An End User Device must discontinue operations, change frequencies, or changeits operational power level within 10 seconds of receiving instructions from its associated CBSD.</li> </ul>	
Test Procedure:	<ol> <li>Setup with frequency 3550-3570MHz and power level 20dBm/MHz</li> <li>Enable AP service from Ruckus Cloud management</li> <li>Check EUD Tx Frequency and power</li> <li>Disable AP service from Ruckus Cloud management</li> <li>Check EUD stops transmission within 10seconds.</li> <li>Setup with 3590-3610MHz &amp; power level 8dBm/MHz</li> <li>Enable AP service from Ruckus Cloud management</li> <li>Check EUD Tx Frequency and power</li> <li>Disable AP service from Ruckus Cloud management</li> <li>Check EUD Tx Frequency and power</li> <li>Disable AP service from Ruckus Cloud management</li> <li>Check EUD Tx Frequency and power</li> <li>Disable AP service from Ruckus Cloud management</li> <li>Check EUD transmission within 10seconds.</li> </ol>	
Test setup:	Companion Device	



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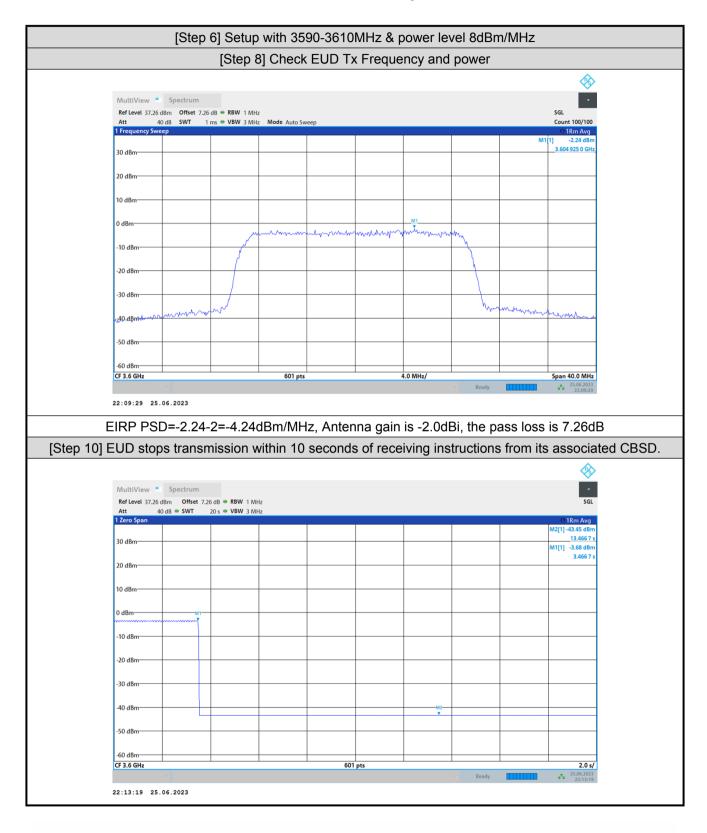
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### 5 Main Test Instruments

RF conducted test						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M- 032	2023/02/17	2024/02/16	
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 012	2023/02/16	2024/02/15	
Base station	Baicells	mBS31001H FCC ID: 2AG32MBS3100196N	SZ-WRG-M- 111	NA	NA	



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### 6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in

accordance with the recommendations of ISO 17025 as following:

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 9.84Hz
2	RF conducted power	± 0.42dB
Domark		

Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cispr/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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### 7 Appendixes

Setup Photos

Appendix A.4 - Setup Photos-part96.47

---End of Report---



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