

Report No.: SEWA2303000029RG04

Rev.: 01

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TEST REPORT

Application No.: SEWA2303000029RG

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

EUT Description: 5G Sub-6 GHz LGA Module

Model No.: RG620T-NA

Trade Mark: Quectel

FCC ID: XMR2023RG620TNA Standards: 47 CFR Part 2.1091

FCC KDB 447498 D01 v06

Date of Receipt: 2023/03/06 **Date of Issue:** 2023/04/17

Test Result: PASS*

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Version

Revision Record										
Version Chapter Date Modifier Remark										
01		2023/04/17		Original						

Prepared By	Nick Hu			
	(Nick Hu) / Test Engineer			
Checked By	well wei			
	(Well Wei) / Reviewer			



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2 **General Information**

2.1 Client Information

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					

2.2 Test Facility

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

A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

FCC –Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327





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2.3 General Description of EUT

EUT Description:	5G Sub-6 GHz LG	A Module								
Model No.:	RG620T-NA									
Trade Mark:	Quectel									
Hardware Version:	R1.0									
Software Version:	RG620TNAAAR0	1A04G55_OCPU								
Facture	UL 2*2 MIMO:									
Feature:	NR Band n38; NR Band n41; NR Band n48; NR Band n77; NR Band n78									
HPUE Power Class:	LTE Band 38; LTE	Band 41;								
The GET GWO! Glado.	NR Band n38; NR Band n41; NR Band n77; NR Band n78									
Antenna Type:	⊠ External, ☐ In	tegrated								
	LTE Band 2:	0.75dBi (Ant7)	LTE Band 4:	0.33dBi (Ant7)						
	LTE Band 5:	-10.68dBi (Ant7)	LTE Band 7:	1.26dBi (Ant7)						
	LTE Band 12:	-8.65dBi (Ant7)	LTE Band 13:	-10.95dBi (Ant7)						
	LTE Band 14:	-10.95dBi (Ant7)	LTE Band 17:	-8.65dBi (Ant7)						
	LTE Band 25:	0.75dBi (Ant7)	LTE Band 26:	-10.68dBi (Ant7)						
	LTE Band 30:	-3.06dBi (Ant7)	LTE Band 38:	1.69dBi (Ant7)						
	LTE Band 41:	2.61dBi (Ant7)	LTE Band 42:	-4.29dBi (Ant6)						
	LTE Band 43:	-4.11dBi (Ant6)	LTE Band 48:	-4.29dBi (Ant6)						
	LTE Band 66:	0.02dBi (Ant7)	LTE Band 71:	-9.34dBi (Ant7)						
	LTE CA_5B:	-10.68dBi (Ant7)	LTE CA_7C:	1.26dBi (Ant7)						
	LTE CA_38C:	1.69dBi (Ant7)	LTE CA_41C:	2.61dBi (Ant7)						
Antenna Gain:	LTE CA_42C:	-4.29dBi (Ant6)	LTE CA_48C:	-4.29dBi (Ant6)						
	LTE CA_66B:	0.02dBi (Ant7)	LTE CA_66C:	0.02dBi (Ant7)						
	NR Band n2:	0.73dBi (Ant1)	NR Band n5:	0.49dBi (Ant1)						
	NR Band n7:	1.42dBi (Ant1)	NR Band n12:	-8.65dBi (Ant7)						
	NR Band n13:	-10.95dBi (Ant7)	NR Band n14:	-10.95dBi (Ant7)						
	NR Band n25:	0.73dBi (Ant1)	NR Band n26:	0.49dBi (Ant1)						
	ND Bond n20:	2 06dDi (Apt1)	ND Band n20:	0.77dBi (Ant1)						
	NR Band n30:	-3.06dBi (Ant1)	NR Band n38:	1.69dBi (Ant7)						
	NR Band n41:	1.42dBi (Ant1)	NR Band n48:	-4.29dBi (Ant0)						
		2.61dBi (Ant7)		-4.29dBi (Ant6)						
	NR Band n66:	-0.20dBi (Ant1)	NR Band n70:	-0.80dBi (Ant1)						
	NR Band n71:	-9.34dBi (Ant7)	NR Band n77:	-3.48dBi (Ant0)						
		, ,		-3.48dBi (Ant6)						



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-4.11dBi (Ant0) -4.11dBi (Ant6)

LTE UL CA:

CA_5B; CA_7C; CA_38C; CA_41C; CA_42C; CA_48C; CA_66B; CA_66C; CA_2A-4A; CA_2A-5A; CA_2A-7A; CA_2A-12A; CA_2A-13A; CA_2A-14A; CA_2A-17A; CA_2A-30A; CA_2A-38A; CA_2A-41A; CA_2A-48A; CA_2A-66A; CA_2A-71A; CA_4A-5A; CA_4A-7A; CA_4A-12A; CA_4A-13A; CA_4A-17A; CA_4A-38A; CA_4A-41A; CA_4A-48A; CA_4A-66A; CA_4A-71A; CA_5A-7A; CA_5A-12A; CA_5A-13A; CA_5A-14A; CA_5A-17A; CA_5A-30A; CA_5A-41A; CA_5A-48A; CA_5A-66A; CA_7A-12A; CA_7A-13A; CA_7A-25A; CA_7A-26A; CA_7A-42A; CA_7A-66A; CA_7A-71A; CA_12A-25A; CA_12A-30A; CA_12A-38A; CA_12A-41A; CA_12A-48A; CA_12A-66A; CA_13A-25A; CA_13A-48A; CA_13A-66A; CA_14A-30A; CA_14A-66A; CA_25A-26A; CA_25A-41A; CA_25A-48A; CA_25A-66A; CA_25A-71A; CA_26A-38A; CA_26A-41A; CA_26A-66A; CA_30A-48A; CA_30A-66A; CA_38A-66A; CA_41A-42A; CA_41A-48A; CA_41A-66A; CA_41A-71A; NR CA:

CA_n2A-n5A; CA_n2A-n7A; CA_n2A-n12A; CA_n2A-n41A; CA_n2A-n48A; CA_n2A-n66A; CA_n2A-n71A; CA_n2A-n77A; CA_n2A-n78A; CA_n5A-n5A; CA_n5A-n7A; CA_n5A-n12A; CA_n5A-n41A; CA_n5A-n48A; CA_n5A-n66A; CA_n5A-n71A; CA_n5A-n77A; CA_n5A-n78A; CA_n7A-n12A; CA_n7A-n25A; CA_n7A-n66A; CA_n7A-n71A; CA_n7A-n77A; CA_n7A-n78A; CA_n12A-n25A; CA_n12A-n41A; CA_n12A-n48A; CA_n12A-n66A; CA_n12A-n77A; CA_n25A-n41A; CA_n25A-n48A; CA_n25A-n66A; CA_n25A-n71A; CA_n25A-n77A; CA_n25A-n78A; CA_n41A-n48A; CA_n41A-n66A; CA_n41A-n71A; CA_n41A-n77A; CA_n41A-n78A; CA_n48A-n66A; CA_n48A-n71A; CA_n48A-n77A; CA_n66A-n71A; CA_n66A-n77A; CA_n66A-n78A; CA_n66A-n78A; CA_n66A-n78A; CA_n71A-n77A; CA_n71A-n78A;

ENDC:

DC_2A_n2A; DC_2A_n5A; DC_2A_n7A; DC_2A_n12A; DC_2A_n25A; DC_2A_n30A;

DC_2A_n38A; DC_2A_n41A; DC_2A_n48A; DC_2A_n66A; DC_2A_n71A;

DC_2A_n77A; DC_2A_n78A; DC_4A_n2A; DC_4A_n7A; DC_4A_n38A;

DC 4A n41A; DC 4A n66A; DC 4A n71A; DC 4A n78A; DC 5A n2A;

DC_5A_n5A; DC_5A_n7A; DC_5A_n30A; DC_5A_n38A; DC_5A_n41A;

DC 5A n48A; DC 5A n66A; DC 5A n71A; DC 5A n77A; DC 5A n78A;

DC_7A_n2A; DC_7A_n5A; DC_7A_n7A; DC_7A_n12A; DC_7A_n25A; DC_7A_n66A;

DC_7A_n71A; DC_7A_n77A; DC_7A_n78A; DC_12A_n2A; DC_12A_n5A;



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DC_12A_n7A; DC_12A_n25A; DC_12A_n30A; DC_12A_n38A; DC_12A_n41A; DC_12A_n66A; DC_12A_n77A; DC_12A_n78A; DC_13A_n2A; DC_13A_n5A; DC_13A_n7A; DC_13A_n25A; DC_13A_n48A; DC_13A_n66A; DC_13A_n77A; DC_13A_n78A; DC_14A_n2A; DC_14A_n30A; DC_14A_n66A; DC_14A_n77A; DC_25A_n41A; DC_25A_n77A; DC_25A_n78A; DC_26A_n25A; DC_26A_n41A; DC_26A_n78A; DC_30A_n66A; DC_30A_n77A; DC_38A_n78A; DC_41A_n41A; DC_41A_n77A; DC_41A_n78A; DC_42A_n77A; DC_48A_n2A; DC_48A_n5A; DC_48A_n12A; DC_48A_n25A; DC_48A_n48A; DC_48A_n66A; DC_48A_n71A; DC_48A_n77A; DC_66A_n30A; DC_66A_n5A; DC_66A_n7A; DC_66A_n12A; DC_66A_n25A; DC_66A_n38A; DC_66A_n41A; DC_66A_n48A; DC_66A_n66A; DC_66A_n71A; DC_66A_n77A; DC_66A_n78A; DC_71A_n7A; DC_71A_n78A; DC_71A_n78A; DC_71A_n78A; DC_71A_n78A; DC_71A_n78A; DC_71A_n78A; DC_71A_n78A;

Note

The antenna gain are derived from the gain information report provided by the manufacturer.

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	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/f2)	6						
30-300	61.4	0.163	1.0	6						
300-1500	1	1	f/300	6						
1500-100,000	1	1	5	6						
(B) Limits for General P	opulation/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	1	1	f/1500	30						
1500-100,000	/	1	1.0	30						

F=frequency in MHz

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R2)

Where

Pd = power density in mW/cm2

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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^{*=}Plane-wave equivalent power density



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3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Operating Band	Frequency (MHz)	Antenna Gain (dBi)	Max Conducte d Average Output Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusio n
LTE Band 2	1850.7	0.75	25.00	25.75	33.00	0.0748	1.0000	8.00	12.01	8.00	Pass
LTE Band 4	1710.7	0.33	25.00	25.33	30.00	0.0679	1.0000	5.00	12.01	5.00	Pass
LTE Band 5/LTE CA_5B	824.7	-10.68	25.00	12.17	38.45	0.0054	0.5498	15.60	9.41	9.41	Pass
LTE Band 7/LTE CA_7C	2502.5	1.26	25.00	26.26	33.00	0.0841	1.0000	8.00	12.01	8.00	Pass
LTE Band 12	699.7	-8.65	25.00	14.20	34.77	0.0086	0.4665	11.92	8.70	8.70	Pass
LTE Band 13	779.5	-10.95	25.00	11.90	34.77	0.0051	0.5197	11.92	9.16	9.16	Pass
LTE Band 14	790.5	-10.95	25.00	11.90	34.77	0.0051	0.5270	11.92	9.23	9.23	Pass
LTE Band 17	706.5	-8.65	25.00	14.20	34.77	0.0086	0.4710	11.92	8.74	8.74	Pass
LTE Band 25	1850.7	0.75	25.00	25.75	33.00	0.0748	1.0000	8.00	12.01	8.00	Pass
LTE Band 26(814- 824)	814.7	-10.68	25.00	12.17	NA	0.0054	0.5431	NA	9.36	9.36	Pass
LTE Band 26(824- 849)	824.7	-10.68	25.00	12.17	38.45	0.0054	0.5498	15.60	9.41	9.41	Pass
LTE Band 30	2307.5	-3.06	25.00	21.94	23.98	0.0311	1.0000	-1.02	12.01	-1.02	Pass
LTE Band 38/LTE CA_38C	2572.5	1.69	28.00	29.69	33.00	0.1852	1.0000	5.00	9.01	5.00	Pass
LTE Band 41/LTE CA 41C	2498.5	2.61	28.00	30.61	33.00	0.2289	1.0000	5.00	9.01	5.00	Pass
LTE Band 42(3450- 3550) /LTE CA_42C	3452.5	-4.29	25.00	20.71	30.00	0.0234	1.0000	5.00	12.01	5.00	Pass
LTE Band 42(3550- 3600) /LTE CA_42C	3552.5	-4.29	25.00	20.71	30.00	0.0234	1.0000	5.00	12.01	5.00	Pass
LTE Band 43(3600- 3700)	3602.5	-4.29	25.00	20.71	30.00	0.0234	1.0000	5.00	12.01	5.00	Pass
LTE Band 43(3700- 3800)	3702.5	-4.11	25.00	20.89	30.00	0.0244	1.0000	5.00	12.01	5.00	Pass
LTE Band 48/LTE CA_48C	3552.5	-4.29	25.00	20.71	23.00	0.0234	1.0000	-2.00	12.01	-2.00	Pass
LTE Band 66/LTE CA_66B/LTE CA_66C	1710.7	0.02	25.00	25.02	30.00	0.0632	1.0000	5.00	12.01	5.00	Pass
LTE Band 71	665.5	-9.34	25.00	13.51	34.77	0.0073	0.4437	11.92	8.48	8.48	Pass



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Operating Band	Frequency (MHz)	Antenna Gain (dBi)	MIMO Directional gain	Max Conducte d Average Output Power (dBm)	EIRP(ERP) (dBm)	EIRP(ERP) Limit (dBm)	Power Density at R = 20 cm (mW/cm2)	Limit (mW/cm2)	Gain according to EIRP(ERP) (dBi)	Gain according to Pd (dBi)	Max Gain Allowed (dBi)	conclusio n
NR Band n2	1852.5	0.73	NA	25.00	25.73	33.00	0.0744	1.0000	8.00	12.01	8.00	Pass
NR Band n5	826.5	0.49	NA	25.00	23.34	38.45	0.0704	0.5510	15.60	9.42	9.42	Pass
NR Band n7	2502.5	1.42	NA	25.00	26.42	33.00	0.0872	1.0000	8.00	12.01	8.00	Pass
NR Band n12	701.5	-8.65	NA	25.00	14.20	34.77	0.0086	0.4677	11.92	8.71	8.71	Pass
NR Band n13	748.5	-10.95	NA	25.00	11.90	34.77	0.0051	0.4990	11.92	8.99	8.99	Pass
NR Band n14	790.5	-10.95	NA	25.00	11.90	34.77	0.0051	0.5270	11.92	9.23	9.23	Pass
NR Band n25	1852.5	0.73	NA	25.00	25.73	33.00	0.0744	1.0000	8.00	12.01	8.00	Pass
NR Band n26(814- 824)	816.5	0.49	NA	25.00	23.34	NA	0.0704	0.5443	NA	9.37	9.37	Pass
NR Band n26(824- 849)	826.5	0.49	NA	25.00	23.34	38.45	0.0704	0.5510	15.60	9.42	9.42	Pass
NR Band n30	2307.5	-3.06	NA	25.00	21.94	23.98	0.0311	1.0000	-1.02	12.01	-1.02	Pass
NR Band n38	2575.0	1.69	NA	28.00	29.69	33.00	0.1852	1.0000	5.00	9.01	5.00	Pass
NR Band n38(MIMO)	2575.0	NA	1.25	28.00	29.25	33.00	0.1674	1.0000	5.00	9.01	5.00	Pass
NR Band n41	2501.0	2.61	NA	28.00	30.61	33.00	0.2289	1.0000	5.00	9.01	5.00	Pass
NR Band n41(MIMO)	2501.0	NA	2.06	28.00	30.06	33.00	0.2017	1.0000	5.00	9.01	5.00	Pass
NR Band n48	3555.0	-4.29	NA	25.00	20.71	23.00	0.0234	1.0000	-2.00	12.01	-2.00	Pass
NR Band n48(MIMO)	3555.0	-4.29	-4.29	27.00	22.71	23.00	0.0371	1.0000	-4.00	10.01	-4.00	Pass
NR Band n66	1712.5	-0.20	NA	25.00	24.80	30.00	0.0601	1.0000	5.00	12.01	5.00	Pass
NR Band n70	1697.5	-0.80	NA	25.00	24.20	30.00	0.0523	1.0000	5.00	12.01	5.00	Pass
NR Band n71	665.5	-9.34	NA	25.00	13.51	34.77	0.0073	0.4437	11.92	8.48	8.48	Pass
NR Band n77 (3450-3550)	3455.0	-3.48	NA	28.00	24.52	30.00	0.0563	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3450-3550)(MIMO)	3455.0	-3.48	-3.48	28.00	24.52	30.00	0.0563	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3550-3700)	3555.0	-4.29	NA	27.00	22.71	23.00	0.0371	1.0000	-4.00	10.01	-4.00	Pass
NR Band n77 (3550-3700)(MIMO)	3555.0	-4.29	-4.29	27.00	22.71	23.00	0.0371	1.0000	-4.00	10.01	-4.00	Pass
NR Band n77 (3700-3980)	3707.5	-3.48	NA	28.00	24.52	30.00	0.0563	1.0000	2.00	9.01	2.00	Pass
NR Band n77 (3700-3980)(MIMO)	3707.5	-3.48	-3.48	28.00	24.52	30.00	0.0563	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3450-3550)	3455.0	-4.11	NA	28.00	23.89	30.00	0.0487	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3450-3550)(MIMO)	3455.0	-4.11	-4.11	28.00	23.89	30.00	0.0487	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3550-3700)	3555.0	-4.29	NA	27.00	22.71	23.00	0.0371	1.0000	-4.00	10.01	-4.00	Pass
NR Band n78 (3550-3700)(MIMO)	3555.0	-4.29	-4.29	27.00	22.71	23.00	0.0371	1.0000	-4.00	10.01	-4.00	Pass
NR Band n78 (3700-3800)	3705.0	-4.11	NA	28.00	23.89	30.00	0.0487	1.0000	2.00	9.01	2.00	Pass
NR Band n78 (3700-3800)(MIMO)	3705.0	-4.11	-4.11	28.00	23.89	30.00	0.0487	1.0000	2.00	9.01	2.00	Pass



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Due to the EUT support NR ENDC and CA

Both LTE and NR/LTE band can transmit simultaneously, the formula of the calculated the MPE is:

$$\sum_{i=1}^{n} \frac{S_{E_{i}}(dutyfactor)}{MPE_{E_{i}}} < 1$$

NOTE The corresponding MEs must be expressed in terms of power density in the above summation Therefore, the worst-case (CA_n5A-n41A) situation is 0.1278+0.2289=0.3567, which is less than "1", this confirmed that the device comply with MPE limit.

---End of Report---

