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TEST REPORT

Application No.:	SEWM2304000133RG
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 200233, China
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 200233, China
EUT Description:	LTE-A Module
Model No.:	EM061K-GL
Trade Mark:	QUECTEL
FCC ID:	XMR2023EM061KGL
Standards:	47 CFR Part 2
	47 CFR Part 22
	47 CFR Part 24
	47 CFR Part 27
	47 CFR Part 90
Date of Receipt:	2023/04/25
Date of Test:	2023/05/13 to 2023/06/21
Date of Issue:	2023/06/21
Test Result :	PASS *

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

Authorized Signature:

/C11

Well Wei Wireless Laboratory Manager



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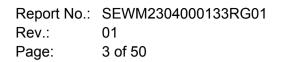
Revision Record					
VersionChapterDateModifierRemark				Remark	
01		2023/06/21		Original	

Prepared By	(Levi Li) / Test Engineer
Checked By	Stone Ju (Stone Gu) / Reviewer



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2 Test Summary

2.1 UMTS Band 5

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Section 1 of Appendix B.1	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Reference r 2203RSU04	
Modulation Characteristics	§2.1047	Digital modulation	Reference r 2203RSU04	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference r 2203RSU04	
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference report 2203RSU045-U6	
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Reference report 2203RSU045-U6	
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 2 of Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Reference report 2203RSU045-U6	
Remark:				

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report 2203RSU045-U6 issued by MRT Technology (Suzhou) Co., Ltd on 2022/06/16.



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2.2 UMTS Band 2

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix B.1	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Reference r 2203RSU04	
Modulation Characteristics	§2.1047	Digital modulation	Reference r 2203RSU04	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference r 2203RSU04	
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference report 2203RSU045-U6	
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	 ≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. 	Reference report 2203RSU045-U6	
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Reference report 2203RSU045-U6	

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2.3 UMTS Band 4

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix B.1	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Reference r 2203RSU04	•
Modulation Characteristics	§2.1047	Digital modulation	Reference r 2203RSU04	•
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference r 2203RSU04	•
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference report 2203RSU045-U6	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	 ≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. 	Reference r 2203RSU04	
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference r 2203RSU04	

Remark:

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report 2203RSU045-U6 issued by MRT Technology (Suzhou) Co., Ltd on 2022/06/16.



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2.4 LTE Band 5/26(824~849 MHz)

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Section 1 of Appendix B.4&B.12	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Reference I 2203RSU04	
Modulation Characteristics	§2.1047	Digital modulation	Reference I 2203RSU04	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report 2203RSU045-U2	
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference report 2203RSU045-U2	
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Reference 1 2203RSU04	
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 2 of Appendix B.4&B.12	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Reference report 2203RSU045-U2	
Remark:		tput Data and Field Strength of Spurio		

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report 2203RSU045-U2 issued by MRT Technology (Suzhou) Co., Ltd on 2022/06/16.



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2.5 LTE Band 2 /25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict	
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix B.2&B.10	Pass	
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Reference 2203RSU0		
Modulation Characteristics	§2.1047	Digital modulation	Reference 2203RSU0		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference 2203RSU0		
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Reference report 2203RSU045-U2	
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Reference 2203RSU0		
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.2&B.10	Pass	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Reference report 2203RSU045-U2		
Stability Remark: The Effective (Isot	§24.235 ropic) Radiated Power Ou		2203RSU0	e fully	

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2.6 LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix B.3&B.16	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Reference I 2203RSU04	
Modulation Characteristics	§2.1047	Digital modulation	Reference I 2203RSU04	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference I 2203RSU04	
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference report 2203RSU045-U2	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	 ≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. 	Reference report 2203RSU045-U2	
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.3&B.16	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report 2203RSU045-U2	
tested in this repo		put Data and Field Strength of Spuric ase refer to the test report 2203RSU(

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective		Requirements		Veruici
(Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.5&B.14&.15	Pass
Peak-Average Ratio		≤13 dB	Reference r 2203RSU04	5-U2
Modulation Characteristics	§2.1047	Digital modulation	Reference r 2203RSU04	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference r 2203RSU04	
Band Edges Compliance	§2.1051, §27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.	Reference r 2203RSU04	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25 dBm/ 1 MHz 9 kHz 9.5 MHz XMHz 10 th harmonics X=Max {6MHz, EBW}	Reference r 2203RSU04	
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	25 dBm/ 1 MHz 9 kHz 9.5 MHz XMHz 10 th harmonics X=Max {6MHz, EBW}	Section 2 of Appendix B.5&B.14&.15	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)	Within authorized bands of operation/frequency block.	Reference r 2203RSU04	

2.7 LTE Band 7/38/41

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	§27.54		
Remark:			
		utput Data and Field Strength of Spurio	
		ease refer to the test report 2203RSU	045-U2 issued by MRT
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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.6&B.9	Pass
Peak-Average Ratio		Limit≤13 dB	Reference re 2203RSU04	
Modulation Characteristics	§2.1047	Digital modulation	Reference re 2203RSU04	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference re 2203RSU04	
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference re 2203RSU04	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Reference re 2203RSU04	
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 2 of Appendix B.6&B.9	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference re 2203RSU04	
Remark: The Effective (Isot	ropic) Radiated Power Outp	out Data and Field Strength of Spur	ious Radiation wer	e fully

2.8 LTE Band 12/17

The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report 2203RSU045-U2 issued by MRT Technology (Suzhou) Co., Ltd on 2022/06/16.



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.7	Pass
Peak-Average Ratio		Limit≤13 dB	Reference 2203RSU0	
Modulation Characteristics	§2.1047	Digital modulation	Reference 2203RSU0	
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Reference 2203RSU0	
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference 2203RSU0	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	 ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. 	Reference 2203RSU0	
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775- 788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 2 of Appendix B.7	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference 2203RSU0	

2.9 LTE Band 13

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The Effective (Isotropic) Radiated Power Output Data and Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the test report 2203RSU045-U2 issued by MRT Technology (Suzhou) Co., Ltd on 2022/06/16.



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective	FCC Rule NO.	Requirements	Test Result	verdict
(Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP ≤ 3 W.	Section 1 of Appendix B.8	Pass
Peak-Average Ratio		Limit≤13 dB	Reference 2203RSU0	45-U3
Modulation Characteristics	§2.1047	Digital modulation	Reference 2203RSU0	45-U3
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference 2203RSU0	
Emission Mask	§2.1051 §90.210(b)	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.	Reference 2203RSU0	
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	 (1) On all frequencies between 769- 775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz 	Reference 2203RSU0	

2.10 LTE Band 14

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		and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758– 775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559– 1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Reference 2203RSU0	
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 2 of Appendix B.8	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Reference 2203RSU0	
tested in this repo		put Data and Field Strength of Spurior ase refer to the test report 2203RSU0 5.		



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Test Item	FCC Rule No.	Requirements	Test Result	Verdic
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Section 1 of Appendix B.11	Pass
Peak-Average Ratio		Limit≤13 dB	Reference 2203RSU04	
Modulation Characteristics	§2.1047	Digital modulation	Reference 2203RSU04	45-U4
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference 2203RSU04	
Emission Mask	§2.1051 § 90.691(a)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.	Reference 2203RSU04	
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Reference 2203RSU04	
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Section 2 of Appendix B.11	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Reference 2203RSU04	

2.11 LTE Band 26(814~824 MHz)

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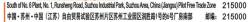
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2.12 LTE Band 30

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP ≤ 250mW/5MHz	Section 1 of Appendix B.13	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Reference 2203RSU0	
Modulation Characteristics	§2.1047	Digital modulation	Reference 2203RSU0	
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Reference 2203RSU0	
Band Edges Compliance	§2.1051, §27.53(a)(4)	 ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. 	Reference 2203RSU0	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2345 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2347 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2396 and 2300 MHz, 61	Reference 2203RSU0	





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		 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz. 		
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.13	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the range of the operating frequency blocks	Reference 2203RSU0	•
		tput Data and Field Strength of Spuriou ase refer to the test report 2203RSU04		

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2.13 LTE Band 71

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Section 1 of Appendix B.17	Pass
Output Data Peak-Average Ratio		Limit≤13 dB	Reference re 2203RSU045	
Modulation Characteristics	§2.1047	Digital modulation	Reference re 2203RSU045	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference re 2203RSU045	
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference re 2203RSU045	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Reference re 2203RSU045	
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.17	Pass
Frequency Stability§2.1055(a)(1)(b) §2.1055(d)(1) §27.54within the authorized bands of operation.Reference report 2203RSU045-U2				
tested in this repo		t Data and Field Strength of Spuri e refer to the test report 2203RSU		



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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 200233, China
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 200233, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Levi Li,King-p.Li

3.3 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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3.4 General Description of EUT

EUT Description:	LTE-A Module						
Model No.:	EM061K-GL						
Trade Mark:	QUECTEL	QUECTEL					
Hardware Version:	R1.0	R1.0					
Software Version:	EM061KGLAAR01A	A02M20	3				
IMEI:	RF Conducted	RF Conducted 869226060002111					
	RSE	86922	26060002103				
Antenna Type:	External, 🗌 Inte	grated					
	WCDMA Band II: 0.25dBi WCDM				nd IV:	1.47dBi	
	WCDMA Band V:	Band V: 2.68dBi					
	LTE Band 2:	0.25dBi		LTE Band 4:		1.47dBi	
	LTE Band 5:	2.68dBi		LTE Band 7:		0.55dBi	
	LTE Band 12:	-0.2dBi		LTE Band 13:		1.54dBi	
	LTE Band 14:	2.42dBi		LTE Band 17	' :	-0.2dBi	
Antenna Gain:	LTE Band 25:	0.25d	Bi	LTE Band 26	6:	2.87dBi	
	LTE Band 30:	-5.7dl	Bi	LTE Band 38	8:	-0.18dBi	
	LTE Band 41:	0.78d	Bi	LTE Band 66	6:	1.47dBi	
	LTE Band 71:	1.22d	Bi				
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					provided by the	
RF Cable:	4.2dB(Below 1GHz	w 1GHz) 4.5dB(1.0~2.4GHz) 4.8dB(2.4~3.4GHz)			3(2.4~3.4GHz)		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.							



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3.5 Test Mode

Test Mode	Test Modes Description				
UMTS/TM1	UMTS system, WCDMA, QPSK modulation				
LTE/TM1	LTE system, QPSK modulation				
LTE/TM2	LTE/TM2 LTE system, 16QAM modulation				
Remark: The test mode(s	Remark: The test mode(s) are selected according to relevant radio technology specifications.				

3.6 Test Environment

Environment Parameter	101 kPa Selecte	101 kPa Selected Values During Tests			
Relative Humidity	44-46 %	6 RH Ambient			
Value	Temperature(°C)	Voltage(V)			
NTNV	22~23	3.7			
LTLV	-30	3.135			
LTHV	-30	4.4			
HTLV	50	3.135			
HTHV	50	4.4			
Remark:					
NV: Normal Voltage LV:	ow Extreme Test Voltage	HV: High Extreme Test Voltage			
NT: Normal Temperature LT:	ow Extreme Test Temperature	HT: High Extreme Test Temperature			

3.7 Description of Support Units

Description	Manufacturer	Model No.			
Adapter	Shenzhen Keyu Power Supply Technology Co.,Ltd.	KA1801A-0503000DE			
Mother Board	Quectel Wireless Solutions Co., Ltd.	5G-M2-EVB_V1.2			
Remark: all above the information of table are provided by client.					



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3.8 Technical Specification

Characteristics	Description						
Radio System Type	🛛 UMTS						
	Band		TX		RX	RX	
	UMTS Band II		1850 to 1910 MHz		1930 to 1	1930 to 1990 MHz	
	UMTS Band IV		1710 to 17	55 MHz	2110 to 2	2155 MHz	
	UMTS Band V	,	824 to 849	MHz	869 to 89	94 MHz	
	LTE Band 2		1850 to 19	10 MHz	1930 to 1	990 MHz	
	LTE Band 4		1710 to 17	55 MHz	2110 to 2	2155 MHz	
	LTE Band 5		824 to 849	MHz	869 to 89	94 MHz	
	LTE Band 7		2500 to 25	70 MHz	2620 to 2	2690 MHz	
	LTE Band 12		699 to 716	MHz	729 to 74	6 MHz	
	LTE Band 13		777 to 787	MHz	746 to 75	56 MHz	
Supported Frequency Range	LTE Band 14		788 to 798	MHz	758 to 76	68 MHz	
Supported i requeriey range	LTE Band 17		704 to 716 MHz		734 to 74	734 to 746 MHz	
	LTE Band 25		1850 to 19	15MHz	1930 to 1	1930 to 1995 MHz	
	LTE Band 26 (814 to 824 MHz)		814 to 824MHz		859 to 86	859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz)		824 to 849 MHz		869 to 89	94 MHz	
	LTE Band 30		2305 to 2315 MHz		2350 to 2	2360 MHz	
	LTE Band 38		2570 to 26	20 MHz	2570 to 2	2620 MHz	
	LTE Band 41		2496 to 26	90MHz	2496 to 2	2496 to 2690MHz	
	LTE Band 66		1710 to 17	80 MHz	2110 to 2	2110 to 2200 MHz	
	LTE Band 71		663 to 698	MHz	617 to 65	52 MHz	
	UMTS system	:	⊠5 MHz		I		
	LTE Dond 2		⊠1.4 MHz	3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 2		🖾 15 MHz	20 MHz			
	I TE Dond 4		⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz	
Supported Channel Bandwidth	LTE Band 4		15 MHz	20 MHz			
	LTE Band 5		⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 7		⊠5 MHz	⊠10 MHz	🖾 15 MHz	20 MHz	
	LTE Band 12		⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz	
	LTE Band 13		⊠5 MHz	⊠10 MHz			



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LTE Band 14	⊠5 MHz	⊠10 MHz		
LTE Band 17	⊠5 MHz	⊠10 MHz		
LTE Band 25	⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz
LTE Dariu 25	🛛 15 MHz	20 MHz		
LTE Band 26(814-824)	⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz
LTE Dond 26/924 940)	⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz
LTE Band 26(824-849)	🛛 15 MHz			
LTE Band30	⊠5 MHz	⊠10 MHz		
LTE Band38	⊠5 MHz	⊠10 MHz	15 MHz	⊠20 MHz
LTE Band41	⊠5 MHz	⊠10 MHz	15 MHz	⊠20 MHz
	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
LTE Band66	⊠15MHz	20MHz		
LTE Band71	⊠5MHz	⊠10MHz	⊠15MHz	⊠20MHz
Note: WCDMA supports HSUPA, HSDPA, DC-HSDPA, HSPA+, but only the worst case was tested and the data displayed in this report.				



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3.9 Test Frequencies

Test Mode	TX / RX	RF Channel				
		Low (L)	Middle (M)	High (H)		
	TX	Channel 9262	Channel 9400	Channel 9538		
		1852.4 MHz	1880.0 MHz	1907.6 MHz		
WCDMA Band II		Channel 9662	Channel 9800	Channel 9938		
	RX	1932.4 MHz	1960.0 MHz	1987.6 MHz		

Test Mode	Test Mode TX / RX		RF Channel				
I est Mode		Low (L)	Middle (M)	High (H)			
		Channel 1312	Channel 1413	Channel 1513			
WCDMA Band IV	TX	1712.4MHz	1732.6 MHz	1752.6 MHz			
	עם	Channel 1537	Channel 1638	Channel 1738			
	RX	2112.4 MHz	2132.6 MHz	2152.6 MHz			

Test Mode	TX / RX	RF Channel				
		Low (L)	Middle (M)	High (H)		
	TX RX	Channel 4132	Channel 4182	Channel 4233		
WCDMA Band V		826.4MHz	836.4 MHz	846.6 MHz		
		Channel 4357	Channel 4407	Channel 4458		
		871.4 MHz	881.4 MHz	891.6 MHz		



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TestMade	Deve de vielth			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 18607	Channel 18900	Channel 19193
	1.4MHz	TX	1850.7 MHz	1880 MHz	1909.3 MHz
		DV	Channel 607	Channel 900	Channel 1193
		RX	1930.7 MHz	1960 MHz	1989.3 MHz
			Channel 18615	Channel 18900	Channel 19185
		TX	1851.5 MHz	1880 MHz	1908.5 MHz
	3MHz	RX	Channel 615	Channel 900	Channel 1185
		RA	1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz	ТХ	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel1175
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz
LIE Daliu Z		ТХ	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
	10MHz	RX	Channel 650	Channel 900	Channel 1150
		КЛ	1935 MHz	1960 MHz	1985 MHz
			Channel 18675	Channel 18900	Channel 19125
		TX	1857.5 MHz	1880 MHz	1902.5 MHz
	15MHz	RX	Channel 675	Channel 900	Channel 1125
-		КЛ	1937.5 MHz	1960 MHz	1982.5 MHz
			Channel 18700	Channel 18900	Channel 19100
		TX	1860 MHz	1880 MHz	1900 MHz
	20MHz	RX	Channel 700	Channel 900	Channel 1100
			1940 MHz	1960 MHz	1980 MHz



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TestMede	D a ra du vi altila			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 19957	Channel 20175	Channel 20393
		TX	1710.7 MHz	1732.5 MHz	1754.3 MHz
	1.4MHz	RX	Channel 1975	Channel 2175	Channel 2375
		RA.	2112.5 MHz	2132.5MHz	2152.5 MHz
			Channel 19965	Channel 20175	Channel 20385
-	3MHz	ТХ	1711.5 MHz	1732.5 MHz	1753.5 MHz
		RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
	5MHz	TX RX	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
			Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4			Channel 20000	Channel 20175	Channel 20350
		ТХ	1715 MHz	1732.5 MHz	1750 MHz
	10MHz	RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
			Channel 20025	Channel 20175	Channel 20325
		ТХ	1717.5 MHz	1732.5 MHz	1747.5 MHz
	15MHz	RX	Channel 2025	Channel 2175	Channel 2325
			2117.5 MHz	2132.5MHz	2147.5 MHz
			Channel 20050	Channel 20175	Channel 20300
		ТХ	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	RX	Channel 2050	Channel 2175	Channel 2300
			2120 MHz	2132.5MHz	2145 MHz

Toot Mode	Dondwidth	Rendwidth TX / PX RF Channel			
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 20407	Channel 20525	Channel 20643
		TX	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	RX	Channel 2407	Channel 2525	Channel 2643
		КЛ	869.7 MHz	881.5 MHz	893.3 MHz
			Channel 20415	Channel 20525	Channel 20635
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 2415	Channel 2525	Channel 2635
			870.5 MHz	881.5 MHz	892.5 MHz
LTE Band 5			Channel 20425	Channel 20525	Channel 20625
		TX	826.5 MHz	836.5 MHz	846.5 MHz
	5MHz	עס	Channel 2425	Channel 2525	Channel 2625
		RX	871.5 MHz	881.5 MHz	891.5 MHz
			Channel 20450	Channel 20525	Channel 20600
		TX	829 MHz	836.5 MHz	844 MHz
	10MHz	RX	Channel 2450	Channel 2525	Channel 2600
			874 MHz	881.5 MHz	889 MHz



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	Denduuidth			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 20775	Channel 21100	Channel 21425
		ТХ	2502.5 MHz	2535 MHz	2567.5 MHz
	5MHz	RX	Channel 2775	Channel 3100	Channel 5825
			2622.5 MHz	2655 MHz	2687.5 MHz
	10MHz	тх	Channel 20800	Channel 21100	Channel 21400
			2505 MHz	2535 MHz	2565 MHz
		RX	Channel 2800	Channel 3100	Channel 3400
			2625 MHz	2655 MHz	2685 MHz
LTE Band 7			Channel 20825	Channel 21100	Channel 21375
		ТХ	2507.5 MHz	2535 MHz	2562.5 MHz
	15MHz	RX	Channel 2825	Channel 3100	Channel 3375
		КЛ	2627.5 MHz	2655 MHz	2682.5 MHz
			Channel 20850	Channel 21100	Channel 21350
		ТХ	2510 MHz	2535 MHz	2560 MHz
	20MHz	RX	Channel 2850	Channel 3100	Channel 3350
		ΓΛ	2630 MHz	2655 MHz	2680 MHz

Test Made	Dondwidth			RF Channel		
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)	
			Channel 23017	Channel 23095	Channel 23173	
		TX	699.7 MHz	707.5 MHz	715.3 MHz	
	1.4MHz	RX	Channel 5017	Channel 5095	Channel 5173	
		КЛ	729.7 MHz	737.5 MHz	745.3 MHz	
			Channel 23025	Channel 23095	Channel 23165	
		TX	700.5 MHz	707.5 MHz	714.5 MHz	
	3MHz	RX	Channel 5025	Channel 5095	Channel 5165	
		RA I	730.5 MHz	737.5 MHz	744.5 MHz	
LTE Band 12				Channel 23035	Channel 23095	Channel 23155
		TX	701.5 MHz	707.5 MHz	713.5 MHz	
	5MHz	RX	Channel 5035	Channel 5095	Channel 5155	
		КЛ	731.5 MHz	737.5 MHz	743.5 MHz	
			Channel 23060	Channel 23095	Channel 23130	
		ТХ	704 MHz	707.5 MHz	711 MHz	
	10MHz	RX	Channel 5060	Channel 5095	Channel 5130	
			734 MHz	737.5 MHz	741 MHz	



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Test Mode	Bandwidth	TX / RX		RF Channel		
	Danamatri		Low (L)	Middle (M)	High (H)	
		ту	Channel 23025	Channel 23230	Channel 23255	
		ТХ	779.5 MHz	782 MHz	784.5 MHz	
	5MHz	RX	Channel 5205	Channel 5230	Channel 5255	
LTE Band 13			748.5 MHz	751 MHz	753.5 MHz	
			Channel 23230	Channel 23230	Channel 23230	
		ТХ	782 MHz	782 MHz	782 MHz	
	10MHz	RX	Channel 5230	Channel 5230	Channel 5230	
		КЛ (751 MHz	751 MHz	751 MHz	
Test Mode	Bandwidth	TX / RX		RF Channel		
Test Mode	Danuwiulii		Low (L)	Middle (M)	High (H)	
			Channel 23305	Channel 23330	Channel 23355	
		ТХ	790.5 MHz	793 MHz	795.5 MHz	
	5MHz	DV	Channel 5305	Channel 5330	Channel 5355	
		RX	760.5 MHz	763 MHz	765.5 MHz	
LTE Band 14			Channel 23330	Channel 23330	Channel 23330	
		ТХ	793MHz	793 MHz	793 MHz	
	10MHz		Channel 5330	Channel 5330	Channel 5330	
		RX	763MHz	763 MHz	763 MHz	
		•	•	•		
Test Mode	Bandwidth	TX / RX		RF Channel		
Test Mode	Bandwidth		Low (L)	Middle (M)	High (H)	
			Channel 23755	Channel 23790	Channel 23825	
		TX	706.5 MHz	710 MHz	713.5 MHz	
	5MHz	DV	Channel 5755	Channel 5790	Channel 5825	
		RX	736.5 MHz	740 MHz	743.5 MHz	
LTE Band 17			Channel 23780	Channel 23790	Channel 23800	
		ТУ				

ТΧ

RX

10MHz



709 MHz

Channel 5780

739 MHz

710 MHz

Channel 5790

740 MHz

711 MHz

Channel 5800

741 MHz

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TestMade	Denducidth	TX / RX		RF Channel	
Test Mode	Bandwidth		Low (L)	Middle (M)	High (H)
			Channel 26047	Channel 26365	Channel 26683
		TX	1850.7 MHz	1882.5 MHz	1914.3 MHz
	1.4MHz	DV	Channel 8047	Channel 8365	Channel 8683
			1930.7 MHz	1962.5 MHz	1994.3 MHz
			Channel 26055	Channel 26365	Channel 26675
		IX	1851.5 MHz	1882.5 MHz	1913.5 MHz
	3MHz	DY	Channel 8055	Channel 8365	Channel 8675
_			1931.5 MHz	1962.5 MHz	1993.5 MHz
			Channel 26065	Channel 26365	Channel 26665
		TX	1852.5 MHz	1882.5 MHz	1912.5 MHz
	5MHz	RX	Channel 8065	Channel 8365	Channel 8665
LTE Band 25	4.05		1932.5 MHz	1962.5 MHz	1992.5 MHz
LIE Banu 25		ТХ	Channel 26090	Channel 26365	Channel 26640
			1855 MHz	1882.5 MHz	1910 MHz
	10MHz	DY	Channel 8090	Channel 8365	Channel 8640
		RX C TX C C	1935 MHz	1962.5 MHz	1990 MHz
			Channel 26115	Channel 26365	Channel 26615
		IX	1857.5 MHz	1882.5 MHz	1907.5 MHz
	15MHz	RX	Channel 8115	Channel 8365	Channel 8615
-			1937.5 MHz	1962.5 MHz	1987.5 MHz
			Channel 26140	Channel 26365	Channel 26590
		ТХ	1860 MHz	1882.5 MHz	1905 MHz
	20MHz	RX	Channel 8140	Channel 8365	Channel 8590
			1940 MHz	1962.5 MHz	1985 MHz



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Test Mede	Dondwidth			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 26697	Channel 26740	Channel 26783
		TX	814.7 MHz	819 MHz	823.3 MHz
	1.4MHz	RX	Channel 8697	Channel 8740	Channel 8783
		ΓЛ	859.7 MHz	864MHz	868.3 MHz
			Channel 26705	Channel 26740	Channel 26775
		TX	815.5 MHz	819 MHz	822.5 MHz
	3MHz	RX	Channel 8705	Channel 8740	Channel 8775
LTE Band 26			860.5 MHz	864MHz	867.5 MHz
(814-824)			Channel 26715	Channel 26740	Channel 26765
(,		TX	816.5 MHz	819 MHz	821.5 MHz
	5MHz	DV	Channel 8715	Channel 8740	Channel 8755
		RX	861.5 MHz	864MHz	866.5 MHz
			Channel 26740	Channel 26740	Channel 26740
		TX	819 MHz	819 MHz	819 MHz
	10MHz	DV	Channel 8740	Channel 8740	Channel 8740
		RX	864MHz	864MHz	864MHz

Test Mode	Dondwidth	BandwidthTX / RX1.4MHzTXRXRX3MHzTXSMHzTXTXRXTXRX		RF Channel	
Test Wode	Danuwiuun		Low (L)	Middle (M)	High (H)
			Channel 26797	Channel 26915	Channel 27033
		ТХ	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	DV	Channel 8697	Channel 8915	Channel 9033
			859.7 MHz	881.5 MHz	893.3 MHz
			Channel 26805	Channel 26915	Channel 27025
		IX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	DV	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
			Channel 26815	Channel 26915	Channel 27015
LTE Band26		ТХ	826.5 MHz	836.5 MHz	846.5 MHz
(824-849)	5MHZ	RX TX RX TX	Channel 8815	Channel 8915	Channel 9015
(871.5 MHz	881.5 MHz	891.5 MHz
			Channel 26840	Channel 26915	Channel 26990
		ТХ	829 MHz	836.5 MHz	844 MHz
	10MHz	DV	Channel 8840	Channel 8915	Channel 8990
		ГЛ	874 MHz	881.5 MHz	889 MHz
			Channel 26865	Channel 26915	Channel 26965
		IX	831.5 MHz	836.5 MHz	841.5 MHz
	15MHz	RX	Channel 8865	Channel 8915	Channel 8965
			876.5 MHz	881.5 MHz	886.5 MHz



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Test Mode	Bandwidth	TY/DY		RF Channel	
Test Mode	Danuwiutii	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 27685	Channel27710	Channel 27735
		TX	2307.5 MHz	2310MHz	2312.5 MHz
	5MHz	RX	Channel 9795	Channel 9820	Channel 9845
LTE Band 30		КЛ	2352.5MHz	2355 MHz	2357.5MHz
LIE Danu 30			Channel 27710	Channel27710	Channel27710
		TX	2310 MHz	2310MHz	2310MHz
	10MHz	RX	Channel 9820	Channel 9820	Channel 9820
		۲A	2355 MHz	2355 MHz	2355 MHz

Test Mode Bandwidth	TX / RX	RF Channel			
Test Mode	Bandwidth		Low (L)	Middle (M)	High (H)
	5MHz	TX/RX	Channel 37775	Channel38000	Channel 38225
	SIMITZ		2572.5 MHz	2595 MHz	2617.5 MHz
	10MHz	TX/RX	Channel 37800	Channel38000	Channel 38200
LTE Band 38			2575 MHz	2595 MHz	2615 MHz
LIE Dallu So	15MHz	TX/RX	Channel 37825	Channel38000	Channel 38175
_	TOININZ		2577.5 MHz	2595 MHz	2612.5 MHz
	20MHz	TX/RX	Channel 37850	Channel38000	Channel 38150
	ZUIVIHZ		2580 MHz	2595 MHz	2610 MHz

Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
			Channel 39675	Channel40620	Channel 41565
	5MHz	TX / RX	2498.5 MHz	2593 MHz	2687.5 MHz
			Channel 39700	Channel40620	Channel 41540
LTE Band 41	10MHz	TX / RX	2501 MHz	2593 MHz	2685 MHz
(2496-2690)			Channel 39725	Channel40620	Channel 41515
, ,	15MHz	TX / RX	2503.5 MHz	2593 MHz	2682.5 MHz
			Channel 39750	Channel40620	Channel 41490
	20MHz	TX / RX	2506 MHz	2593 MHz	2680 MHz



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TestMade	Denduridth			RF Channel	
Test Mode	Bandwidth	TX/RX	Low (L)	Middle (M)	High (H)
			Channel 131979	Channel 132322	Channel 132665
		TX	1710.7 MHz	1745 MHz	1779.3 MHz
	1.4MHz	RX	Channel 66443	Channel 66786	Channel 67329
		КЛ	2110.7 MHz	2145MHz	2199.3 MHz
			Channel 131987	Channel 132322	Channel 132657
		TX	1711.5 MHz	1745 MHz	1778.5MHz
	3MHz	RX	Channel 66451	Channel 66786	Channel 67321
			2111.5 MHz	2145MHz	2198.5MHz
			Channel 131997	Channel 132322	Channel 132647
		TX	1712.5 MHz	1745 MHz	1777.5 MHz
	5MHz	SMHZ RX	Channel 66461	Channel 66786	Channel 67311
			2112.5 MHz	2145MHz	2197.5 MHz
LTE Band66		ТХ	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
	10MHz	DY	Channel 66486	Channel 66786	Channel 67286
		RX	2115 MHz	2145MHz	2195 MHz
			Channel 132047	Channel 132322	Channel 132597
		ТХ	1717.5 MHz	1745 MHz	1772.5 MHz
	15MHz	RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
			Channel 132072	Channel 132322	Channel 132572
		TX	1720 MHz	1745 MHz	1770 MHz
	20MHz	RX	Channel 66536	Channel 66786	Channel 67236
			2120 MHz	2145MHz	2190 MHz



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Test Mede	Dondwidth	TX / RX		RF Channel	
Test Mode	Bandwidth		Low (L)	Middle (M)	High (H)
			Channel 133147	Channel 133297	Channel 133447
		ТХ	665.5 MHz	680.5 MHz	695.5 MHz
	5MHz	RX	Channel 68611	Channel 68761	Channel 68911
		RA.	619.5 MHz	634.5 MHz	649.5 MHz
		тх	Channel 133172	Channel 133297	Channel 133422
			668 MHz	680.5 MHz	693 MHz
	10MHz	RX	Channel 68636	Channel 68761	Channel 68886
			622 MHz	634.5 MHz	647 MHz
LTE Band71			Channel 133197	Channel 133297	Channel 133397
		ТХ	670.5 MHz	680.5 MHz	690.5 MHz
	15MHz	RX	Channel 68661	Channel 68761	Channel 68861
		RA.	624.5 MHz	634.5 MHz	644.5 MHz
			Channel 133222	Channel 133297	Channel 133372
		ТХ	673 MHz	680.5 MHz	688 MHz
	20MHz	RX	Channel 68686	Channel 68761	Channel 68836
			627 MHz	634.5 MHz	642 MHz



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4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1



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4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4 Calculate power in dBm by the following formula: ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd) EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi) EIRP=ERP+2.15dB

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4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- If necessary, steps 2 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7



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4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

Remark: Reference test setup 1

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize



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4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

1. Start frequency was set to 9kHz and stop frequency was set to at least 10* the fundamental frequency(Separated into at least two plots per channel)

- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings



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4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power



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4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- Repeat above procedures until all frequencies measured was complete.
 E (dBµV/m) = Measured amplitude level (dBµV) + (Cable Loss (dB) + Antenna Factor (dB/m) AMP(dB))
 EIRP (dBm) = E (dBµV/m) + 20 log D 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:
 E (dBµV/m) = Measured amplitude level (dBµV) + (Cable Loss (dB) + Antenna Factor (dB/m) AMP(dB))
 EIRP (dBm) = E (dBµV/m) + 20 log D 104.8; where D is the measurement distance in meters
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Remark: Reference test setup 2

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics

had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) All modes have been tested, but only the worst case data displayed in this report.



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4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; Section 9

- . The frequency stability of the transmitter is measured by:
- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



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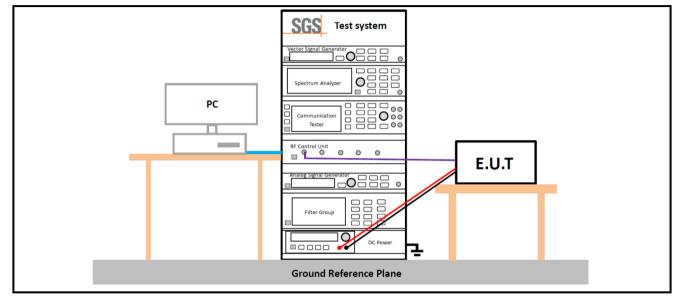
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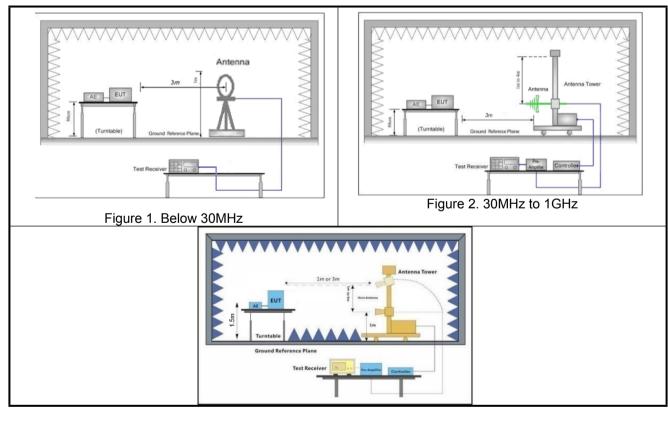
4.9 Test Setups

4.9.1 Test Setup 1



4.9.2 Test Setup 2

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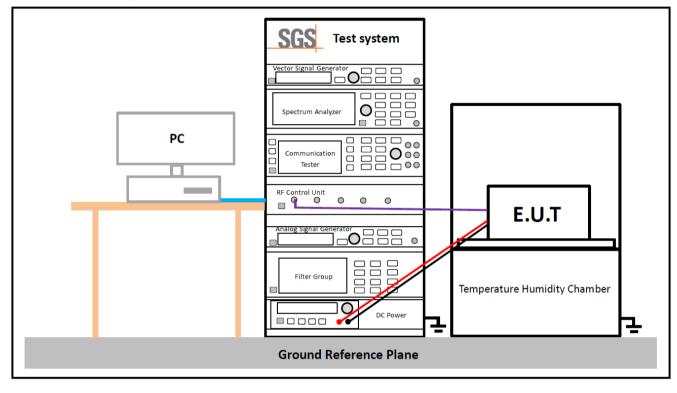
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Figure 3. above 1GHz

4.9.3 Test Setup 3





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4.10Test Conditions

Transmit Output Power Data - Average Power, Total				
Test Case Test Conditions				
Test Environment	nt Ambient Climate & Rated Voltage			
Test Setup	Test Setup 1			
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)			
Test Mode	UMTS/TM1; LTE/TM1;LTE/TM2			
	Field Strength of Spurious Radiation			
Test Case Test Conditions				
Test Environment	Ambient Climate & Rated Voltage			
Test Setup	Test Setup 2			
RF Channels (TX) L, M, H (L= low channel, M= middle channel, H= high channel)				
Test Mode	UMTS/TM1; LTE/TM1 Remark: All bandwidth and modulation of UMTS/LTE have been pre tested, and only the worst results are reflected in the report.			



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5 Main Test Instruments

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RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2022/11/23	2023/11/22
Wideband Radio Communication Tester	ROHDE& SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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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	Total RF power, conducted	±0.54dB
		± 3.13dB (9k -30MHz)
2	2 Dedicted Emission	± 4.8dB (30M -1GHz)
2	Radiated Emission	± 4.8dB (1GHz to 18 GHz)
		± 4.80dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (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

Appendix A.2	WWAN Setup Photos
Appendix B.1	WCDMA Band II & IV & V
Appendix B.2	LTE Band 2
Appendix B.3	LTE Band 4
Appendix B.4	LTE Band 5
Appendix B.5	LTE Band 7
Appendix B.6	LTE Band 12
Appendix B.7	LTE Band 13
Appendix B.8	LTE Band 14
Appendix B.9	LTE Band 17
Appendix B.10	LTE Band 25
Appendix B.11	LTE Band 26(814-824)
Appendix B.12	LTE Band 26(824-849)
Appendix B.13	LTE Band 30
Appendix B.14	LTE Band 38
Appendix B.15	LTE Band 41
Appendix B.16	LTE Band 66
Appendix B.17	LTE Band 71

---End of Report---



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