

SZEMC-TRF-01 Rev. A/1

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TEAT		ADT
TEST	RFP	

Application No.:	SZCR2407002840MO
Applicant:	Fibocom Wireless Inc
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
EUT Description:	5G RedCap Module
Model No.:	FG132-NA
Trade Mark:	Fibocom
FCC ID:	ZMOFG132NA
Standards:	47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90 47 CFR Part 96
Date of Receipt:	2024/07/22
Date of Test:	2024/07/29 to 2024/08/20
Date of Issue:	2024/08/26
Test Result :	PASS *

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

Leny. Ku

Keny Xu EMC Laboratory Manager



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Revision Record					
VersionChapterDateModifierRemark					
01		2024/08/26		Original	

Authorized for issue by:	
	Dorjan. Hu ang
	Donjon Huang/Project Engineer
	Eric Fu
	Eric Fu/Reviewer



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2 **Test Summary**

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

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W		Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Refer to FDD ID: - ZMOFG132NA	Pass
Band Edges Compliance	§2.1051, §22.917(a)	 ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. 		Pass
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.		Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§22.355	±2.5ppm.	Refer to FDD ID: ZMOFG132NA	Pass



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2.2 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	Refer to FDD ID: ZMOFG132NA	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §24.238(a)	 ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. 		Pass
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. 		Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§24.235	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.3 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	Refer to FDD ID: ZMOFG132NA	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(h)	 ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. 		Pass
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. 		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.4 LTE Band 7/38/41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W		Pass
Peak- Average Ratio		≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
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 de ned 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.	Refer to FDD ID: ZMOFG132NA	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	25 dBm/ 1 MHz 9 kHz 25 dBm/ 1 MHz 9 kHz 25 dBm/ 1 MHz 1 M		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25 dBm/ 1 MHz 9 kHz 9.5 MHz XMHz 10 th harmonics X=Max {6MHz, EBW} writing, this document is issued by the Company subject to its General C	Appendix B.1	Pass



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Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass
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2.5 LTE Band 12/17

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Refer to FDD ID: ZMOFG132NA	Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(g)	 ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. 		Pass
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.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.		Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Pass
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. 	Refer to FDD ID: ZMOFG132NA	Pass
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.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.7 LTE Band 14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP ≤ 3 W.		Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
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 R. 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 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 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.	Refer to FDD ID: ZMOFG132NA	Pass
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		Pass



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		segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz 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. 		Pass
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.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§90.213	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.8 LTE Band 26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.		Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
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.	Refer to FDD ID: ZMOFG132NA	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions		Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§90.213	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.9 LTE Band 30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP ≤ 50mW/1MHz EIRP ≤ 250mW/5MHz		Pass
Peak-Average Ratio		FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		Pass
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.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	 For the provided 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 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2327 and 2324 MHz and on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 61 + 10 log (P) dB on all frequencies between 2328 MHz and 0 n all frequencies between 2300 And 2305 MHz, 55 + 10 log (P) dB N Al	Refer to FDD ID: ZMOFG132NA	Pass



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		on all frequencies between 2296 and 2300 MHz, 61 + 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)	≤ -40dBm/MHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	within the range of the operating frequency blocks	Refer to FDD ID: ZMOFG132NA	Pass



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2.10 LTE Band 42

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(k)(3)	EIRP ≤ 30dBm		Pass
Peak-Average Ratio	§27.50(k)(4)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Refer to FDD ID: ZMOFG132NA	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	Within authorized bands of operation/ frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.11 LTE Band 43

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W		Pass
Peak- Average Ratio	§27.50(j)(4)	≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(l)(2)	 (2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 	Refer to FDD ID: ZMOFG132NA	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	not exceed -13 dBm/MHz.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	not exceed -13 dBm/MHz	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	Within authorized bands of operation/frequency block.	Refer to FDD ID: ZMOFG132NA	Pass



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2.12 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W		Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Refer to FDD ID:	Pass
Band Edges Compliance	§2.1051, §27.53(g)	 ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. 	ZMOFG132NA	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	 ≤ -13 dBm/1 MHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. 		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Appendix B.1	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	within the authorized bands of operation.	Refer to FDD ID: ZMOFG132NA	Pass



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2.13 LTE Band 42/ LTE Band 43/ LTE Band 48

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz		Pass
Peak- Average Ratio	§96.41	FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.		Pass
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge.	Refer to FDD ID: ZMOFG132NA	Pass
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz.		Pass



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		 (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed –40dBm/MHz. 		
Field Strength of Spurious Radiation	§2.1053, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed –13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed –25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed –40dBm/MHz.	Appendix B.1	Pass
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	Refer to FDD ID: ZMOFG132NA	Pass

Remark:

The Field Strength of Spurious Radiation were fully tested in this report, and other items data please refer to the FCC ID: ZMOFG132NA.



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3 General Information

3.1 Details of Client

Applicant:	Fibocom Wireless Inc
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

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:	Jinhua Wei, Xing Guo

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 EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

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. Shenzhen EMC laboratory 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.

• FCC – Designation Number: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.



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3.4 General Description of EUT

EUT Description:	5G RedCap Module	5G RedCap Module					
Model No.:	FG132-NA	FG132-NA					
Trade Mark:	Fibocom	Fibocom					
Hardware Version:	V1.0						
Software Version:	19003.1000.40.02.01.	.01					
Power Supply:	DC3.8V						
	RF Conducted		86358107	0002709			
IMEI:	RSE		86358107	0005827			
Antenna Type:	External, Integra	ited					
HPUE Power Class:	Class 2: LTE Band 38	3; LTE	Band 41; LT	E Band 42; L	TE Band 43;		
	LTE Band 2: 2	2.85dBi	(Ant0)	LTE Band 4:	2.98dBi (Ant0)		
	LTE Band 5: 1	.32dBi	(Ant0)	LTE Band 7:	2.21dBi (Ant0)		
	LTE Band 12: 1	1.61dBi (Ant0)		LTE Band 13	3: 1.83dBi (Ant0)		
	LTE Band 14: 2	2.19dBi (Ant0)		LTE Band 17	7: 1.61dBi (Ant0)		
	LTE Band 25: 2	5: 2.85dBi (Ant0)		LTE Band 26	6: 1.32dBi (Ant0)		
Antenna Gain:	LTE Band 30: 0).22dBi	(Ant0)	LTE Band 38	3: 1.71dBi (Ant0)		
	LTE Band 41: 2	2.21dBi	(Ant0)	LTE Band 42	2: -0.13dBi (Ant0)		
	LTE Band 43: -	0.13dE	Bi (Ant0)	LTE Band 48	3: -0.13dBi (Ant0)		
	LTE Band 66: 2	2.98dBi	(Ant0)	LTE Band 71	I: 1.61dBi (Ant0)		
	Note: The antenna gain are manufacturer.	derive	d from the g	gain informatio	n report provided by the		
	9kHz ~ 30MHz 30MHz ~ 1000MHz 1000MHz ~ 2000MHz (0.3dB) (0.6dB) (0.8dB)						
RF Cable:	2000MHz ~ 4000MH	lz	4000MHz -	~ 6000MHz	6000MHz ~ 12750MHz		
	(1.1dB) (1.8dB) (2.6dB)						
	Above 12750MHz (3.5dB)						
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			
LTE/TM1	LTE system, QPSK modulation			
LTE/TM2	LTE system, 16QAM modulation			
LTE/TM3	LTE/TM3 LTE system, 64QAM modulation			
Remark: The test mode(s) are selected according to relevant radio technology specifications.				

3.6 Test Environment

Environment Parameter		101.0 kPa Selected Values During Tests			
Relative Humidity		44-60 % RH Ambient			
Value		Temperature(°C)	Voltage(V)		
NTNV		22~25	3.8		
LTLV		-30	3.3		
LTHV		-30	4.3		
HTLV		50	3.3		
HTHV		50	4.3		
Remark:					
NV: Normal Voltage	LV: Low	v Extreme Test Voltage	HV: High Extreme Test Voltage		
NT: Normal Temperature	LT: Low	Extreme Test Temperature	HT: High Extreme Test Temperature		

3.7 Description of Support Units

Description	Manufacturer	Model No.				
Mother board	Fibocom	ADP-FG132-GL-00-00_V1.0				
USB cable	Ugreen	6A				
Adapter Apple A1443						
Remark: all above the information of table are provided by client.						



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3.8 Technical Specification

Characteristics	Description						
Radio System Type	⊠ LTE						
	Band	ТХ	RX				
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz				
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz				
	LTE Band 5	824 to 849 MHz	869 to 894 MHz				
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz				
	LTE Band 12	699 to 716 MHz	729 to 746 MHz				
	LTE Band 13	777 to 787 MHz	746 to 756 MHz				
Supported Frequency Range	LTE Band 14	788 to 798 MHz	758 to 768 MHz				
	LTE Band 17	704 to 716 MHz	734 to 746 MHz				
	LTE Band 25	1850 to 1915MHz	1930 to 1995 MHz				
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz				
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz				
	LTE Band 30	2305 to 2315 MHz	2350 to 2360 MHz				
	LTE Band 38	2570 to 2620 MHz	2570 to 2620 MHz				
	LTE Band 41	2496 to 2690MHz	2496 to 2690MHz				
	LTE Band 42	3450 to 3550 MHz	3450 to 3550 MHz				
	LTE Band 42_ Part96	3550 to 3600 MHz	3550 to 3600 MHz				
	LTE Band 43	3700 to 3800 MHz	3700 to 3800 MHz				
	LTE Band 43_ Part96	3600 to 3700 MHz	3600 to 3700 MHz				
	LTE Band 48	3550 to 3700 MHz	3550 to 3700 MHz				
	LTE Band 66	1710 to 1780 MHz	2110 to 2200 MHz				
	LTE Band 71	663 to 698 MHz	617 to 652 MHz				
	LTE Band 2	⊠1.4 MHz ⊠3 MHz	⊠5 MHz ⊠10 MHz				
		⊠15 MHz ⊠20 MHz					
Supported Channel Bandwidth	LTE Band 4	⊠1.4 MHz ⊠3 MHz	⊠5 MHz ⊠10 MHz				
Capportou Onannoi Danawiuti		⊠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				



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	LTE Band 12	⊠1.4 MHz	🖾 3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 13	⊠5 MHz	⊠10 MHz		
	LTE Band 14	⊠5 MHz	⊠10 MHz		
	LTE Band 17	⊠5 MHz	⊠10 MHz		
	LTE Dood 25	⊠1.4 MHz	🖾 3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 25	🛛 15 MHz	20 MHz		
	LTE Band 26(814-824)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Dead 20(024,040)	⊠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
	LTE Band42	⊠5 MHz	⊠10 MHz	🖾 15 MHz	⊠20 MHz
	LTE Band43	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	LTE Band48	⊠5 MHz	⊠10 MHz	🖾 15 MHz	20 MHz
	LTE Bondee	⊠1.4 MHz	🖾 3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band66	⊠15MHz	⊠20MHz		
	LTE Band71	⊠5MHz	⊠10MHz	⊠15MHz	⊠20MHz



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3.9 Test Frequencies

Teet Mede	Donoduuidth			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
	1.4MHz		Channel 18607	Channel 18900	Channel 19193
		TX	1850.7 MHz	1880 MHz	1909.3 MHz
		RX	Channel 607	Channel 900	Channel 1193
		КЛ	1930.7 MHz	1960 MHz	1989.3 MHz
			Channel 18615	Channel 18900	Channel 19185
	3MHz	TX	1851.5 MHz	1880 MHz	1908.5 MHz
		RX	Channel 615	Channel 900	Channel 1185
		КЛ	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 Dallu Z		ТХ	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
	10MHz	RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
		ТΧ	Channel 18675	Channel 18900	Channel 19125
			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
		ΓΛ	1940 MHz	1960 MHz	1980 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
			Channel 19957	Channel 20175	Channel 20393
	1.4MHz	TX	1710.7 MHz	1732.5 MHz	1754.3 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
		КЛ	2112.5 MHz	2132.5MHz	2152.5 MHz
			Channel 19965	Channel 20175	Channel 20385
		TX	1711.5 MHz	1732.5 MHz	1753.5 MHz
	3MHz	DV	Channel 2000	Channel 2175	Channel 2350
		RX	2115 MHz	2132.5MHz	2150 MHz
	5MHz	ТХ	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2375
			2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4		ТХ	Channel 20000	Channel 20175	Channel 20350
			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
		TX	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
		TX	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	DV	Channel 2050	Channel 2175	Channel 2300
	RX		2120 MHz	2132.5MHz	2145 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
		ТΧ	Channel 20407	Channel 20525	Channel 20643
			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
	CN (1)	TX	826.5 MHz	836.5 MHz	846.5 MHz
	5MHz	DΥ	Channel 2425	Channel 2525	Channel 2625
		RX	871.5 MHz	881.5 MHz	891.5 MHz
	10MHz		Channel 20450	Channel 20525	Channel 20600
		TX	829 MHz	836.5 MHz	844 MHz
		RX	Channel 2450	Channel 2525	Channel 2600
		ΓΛ	874 MHz	881.5 MHz	889 MHz



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

Teet Mede	Dondwidth	TX / RX		RF Channel	
Test Mode	Bandwidth		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
		ΓΛ	729.7 MHz	737.5 MHz	745.3 MHz
			Channel 23025	Channel 23095	Channel 23165
	3MHz	TX	700.5 MHz	707.5 MHz	714.5 MHz
		RX	Channel 5025	Channel 5095	Channel 5165
			730.5 MHz	737.5 MHz	744.5 MHz
LTE Band 12	5MHz	тх	Channel 23035	Channel 23095	Channel 23155
			701.5 MHz	707.5 MHz	713.5 MHz
		RX	Channel 5035	Channel 5095	Channel 5155
			731.5 MHz	737.5 MHz	743.5 MHz
	10MHz		Channel 23060	Channel 23095	Channel 23130
		TX	704 MHz	707.5 MHz	711 MHz
		RX	Channel 5060	Channel 5095	Channel 5130
		INA	734 MHz	737.5 MHz	741 MHz



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Test Mode	Bandwidth	Bandwidth TX / RX	RF Channel		
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
			Channel 23025	Channel 23230	Channel 23255
		TX	779.5 MHz	782 MHz	784.5 MHz
	5MHz	D۷	Channel 5205	Channel 5230	Channel 5255
LTE Band 13		RX	748.5 MHz	751 MHz	753.5 MHz
LIE Dallu 13			Channel 23230	Channel 23230	Channel 23230
		TX	782 MHz	782 MHz	782 MHz
	10MHz	DV	Channel 5230	Channel 5230	Channel 5230
		RX	751 MHz	751 MHz	751 MHz

Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
			Channel 23305	Channel 23330	Channel 23355
		TX	790.5 MHz	793 MHz	795.5 MHz
	5MHz	DV	Channel 5305	Channel 5330	Channel 5355
LTE Band 14		RX	760.5 MHz	763 MHz	765.5 MHz
LIE Dallu 14			Channel 23330	Channel 23330	Channel 23330
		TX	793MHz	793 MHz	793 MHz
	10MHz	DV	Channel 5330	Channel 5330	Channel 5330
		RX	763MHz	763 MHz	763 MHz

Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiuun		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
LTE Band 17		RX	736.5 MHz	740 MHz	743.5 MHz
			Channel 23780	Channel 23790	Channel 23800
		TX	709 MHz	710 MHz	711 MHz
	10MHz	DV	Channel 5780	Channel 5790	Channel 5800
		RX	739 MHz	740 MHz	741 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
		ТХ	Channel 26047	Channel 26365	Channel 26683
			1850.7 MHz	1882.5 MHz	1914.3 MHz
	1.4MHz	RX	Channel 8047	Channel 8365	Channel 8683
		ΓA	1930.7 MHz	1962.5 MHz	1994.3 MHz
			Channel 26055	Channel 26365	Channel 26675
		TX	1851.5 MHz	1882.5 MHz	1913.5 MHz
	3MHz	RX	Channel 8055	Channel 8365	Channel 8675
		КЛ	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			1932.5 MHz	1962.5 MHz	1992.5 MHz
LTE Band 25			Channel 26090	Channel 26365	Channel 26640
		TX	1855 MHz	1882.5 MHz	1910 MHz
	10MHz	RX	Channel 8090	Channel 8365	Channel 8640
		ΓA	1935 MHz	1962.5 MHz	1990 MHz
			Channel 26115	Channel 26365	Channel 26615
		TX	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
		TX	1860 MHz	1882.5 MHz	1905 MHz
	20MHz	RX	Channel 8140	Channel 8365	Channel 8590
		۲A	1940 MHz	1962.5 MHz	1985 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiuun		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
		ΓΛ	859.7 MHz	864MHz	868.3 MHz
			Channel 26705	Channel 26740	Channel 26775
		TX	815.5 MHz	819 MHz	822.5 MHz
	3MHz	IHz 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
(011021)		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

Toot Mode	Bandwidth			RF Channel	
Test Mode	Danuwiuun	TX/RX	Low (L)	Middle (M)	High (H)
			Channel 26797	Channel 26915	Channel 27033
		TX	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	DV	Channel 8697	Channel 8915	Channel 9033
		RX	859.7 MHz	881.5 MHz	893.3 MHz
			Channel 26805	Channel 26915	Channel 27025
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	DV	Channel 8805	Channel 8915	Channel 9025
		RX	860.5 MHz	881.5 MHz	892.5 MHz
	5MHz		Channel 26815	Channel 26915	Channel 27015
LTE Band26		826.5 MHz	836.5 MHz	846.5 MHz	
(824-849)		-	Channel 8815	Channel 8915	Channel 9015
(0=1010)		RX	871.5 MHz	881.5 MHz	891.5 MHz
			Channel 26840	Channel 26915	Channel 26990
		TX	829 MHz	836.5 MHz	844 MHz
	10MHz	DV	Channel 8840	Channel 8915	Channel 8990
		RX	874 MHz	881.5 MHz	889 MHz
			Channel 26865	Channel 26915	Channel 26965
		TX	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	lth TX / RX		RF Channel		
Test Mode	Danuwiutn		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			2352.5MHz	2355 MHz	2357.5MHz	
LIE Dallu 30			Channel 27710	Channel27710	Channel27710	
		TX	2310 MHz	2310MHz	2310MHz	
	10MHz	DV	Channel 9820	Channel 9820	Channel 9820	
		RX	2355 MHz	2355 MHz	2355 MHz	

Test Mode	Bandwidth	Bandwidth TX / RX	RF Channel		
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
		TX/RX	Channel 37775	Channel38000	Channel 38225
	5MHz		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 Danu 30		TX/RX	Channel 37825	Channel38000	Channel 38175
	15MHz		2577.5 MHz	2595 MHz	2612.5 MHz
001411	20141-	TX/RX	Channel 37850	Channel38000	Channel 38150
	20MHz TX/RX	2580 MHz	2595 MHz	2610 MHz	

Test Mode	Bandwidth	TX / RX		RF Channel	
Test Wode	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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Test Made	Bandwidth	TV / DV		RF Channel	
Test Mode	Danuwiuun	n TX/RX	Low (L)	Middle (M)	High (H)
			Channel 40115	Channel 43340	Channel 43565
		TX	3552.5 MHz	3575 MHz	3597.5 MHz
	5MHz	RX	Channel 40115	Channel 43340	Channel 43565
		ΓΛ	3552.5 MHz	3575 MHz	3597.5 MHz
			Channel 43140	Channel 43340	Channel 43540
		TX	3555 MHz	3575 MHz	3595 MHz
	10MHz	10MHz RX	Channel 43140	Channel 43340	Channel 43540
LTE Band 42			3555 MHz	3575 MHz	3595 MHz
(3550-3600)			Channel 43165	Channel 43340	Channel 43515
· · · · ·		TX	3557.5 MHz	3575 MHz	3592.5 MHz
	15MHz	RX	Channel 43165	Channel 43340	Channel 43515
		КЛ	3557.5 MHz	3575 MHz	3592.5 MHz
			Channel 43190	Channel 43340	Channel 43490
		TX	3560 MHz	3575 MHz	3590 MHz
	20MHz	ΒV	Channel 43190	Channel 43340	Channel 43490
		RX	3560 MHz	3575 MHz	3590 MHz

Toot Mada	Dondwidth			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 42115	Channel 42590	Channel 43065
		TX	3452.5 MHz	3500 MHz	3547.5 MHz
	5MHz	RX	Channel 42115	Channel 42590	Channel 43065
		КЛ	3452.5 MHz	3500 MHz	3547.5 MHz
			Channel 42140	Channel 42590	Channel 43040
		TX	3455 MHz	3500 MHz	3545 MHz
	10MHz	10MHz RX	Channel 42140	Channel 42590	Channel 43040
LTE Band 42			3455 MHz	3500 MHz	3545 MHz
(3450-3550)			Channel 42165	Channel 42590	Channel 43015
		ТХ	3457.5 MHz	3500 MHz	3542.5 MHz
	15MHz	DV	Channel 42165	Channel 42590	Channel 43015
		RX	3457.5 MHz	3500 MHz	3542.5 MHz
			Channel 42190	Channel 42590	Channel 42990
		TX	3460 MHz	3500 MHz	3540 MHz
	20MHz	DV	Channel 42190	Channel 42590	Channel 42990
		RX	3460 MHz	3500 MHz	3540 MHz



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Teet Mede	Bandwidth TX / RX RF Channel							
Test Mode	Danuwiutri		Low (L)	Middle (M)	High (H)			
			Channel 44615	Channel45090	Channel 45565			
	5MHz	TX/RX	3702.5 MHz	3750.0 MHz	3797.5 MHz			
						Channel 44640	Channel45090	Channel 45540
LTE Band 43	10MHz	TX/RX	3705.0 MHz	3750.0 MHz	3795.0 MHz			
(3700-3800)			Channel 44665	Channel45090	Channel 45515			
	15MHz	TX/RX	3707.5 MHz	3750.0 MHz	3792.5 MHz			
	001411		Channel 44690	Channel45090	Channel 45490			
	20MHz TX/RX	TX/RX	3710 MHz	3750.0 MHz	3790.0 MHz			

Test Mode	Bandwidth	TX / RX	RF Channel			
			Low (L)	Middle (M)	High (H)	
LTE Band 43 (3600-3700)	5MHz	TX/RX	Channel 43615	Channel44090	Channel 44565	
			3602.5 MHz	3650.0 MHz	3697.5 MHz	
	10MHz	TX/RX	Channel 43640	Channel44090	Channel 44540	
			3605.0 MHz	3650.0 MHz	3695.0 MHz	
	15MHz	TX/RX	Channel 43665	Channel44090	Channel 44515	
			3607.5 MHz	3650.0 MHz	3692.5 MHz	
	20MHz T		Channel 43690	Channel44090	Channel 44490	
		TX/RX	3610 MHz	3650.0 MHz	3690.0 MHz	

Test Mode	Bandwidth	TX / RX	RF Channel			
			Low (L)	Middle (M)	High (H)	
LTE Band 48	5MHz	TX/RX	Channel 55265	Channel55990	Channel 56715	
			3552.5 MHz	3625.0 MHz	3697.5 MHz	
	10MHz	TX/RX	Channel 55290	Channel55990	Channel 56690	
			3555.0 MHz	3625.0 MHz	3695.0 MHz	
	15MHz	TX/RX	Channel 55315	Channel55990	Channel 56665	
			3557.5 MHz	3625.0 MHz	3692.5 MHz	
	20MHz	TX/RX	Channel 55340	Channel55990	Channel 56640	
			3560.0 MHz	3625.0 MHz	3690.0 MHz	



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

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

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

Test Settings

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW \ge 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep \geq 2 × span/RBW.
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.

9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).



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4.4 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 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
- 8. 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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4.5 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
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- The trace was allowed to stabilize



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4.6 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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4.7 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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4.8 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.
- 6). 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 (dB μ V/m) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) AMP(dB)) EIRP (dBm) = E (dB μ V/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 & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

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

Level = Reading Level + ÁF + Factor -95.26

Margin = Limit – Level

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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4.9 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 ±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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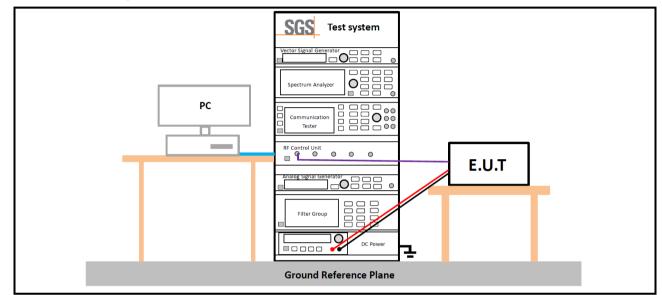


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4.10Test Setups

4.10.1 Test Setup 1



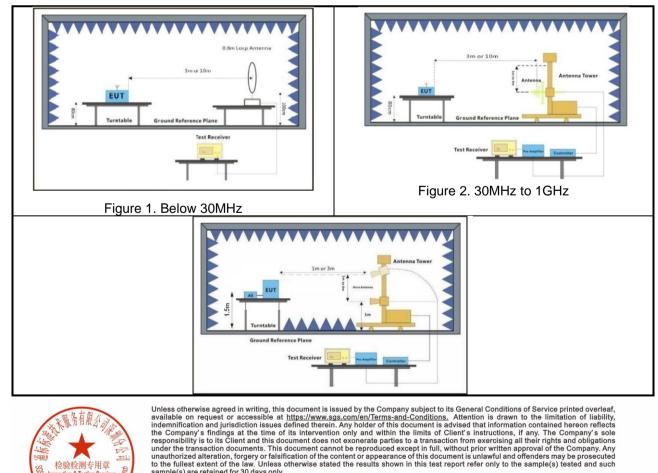
4.10.2 Test Setup 2

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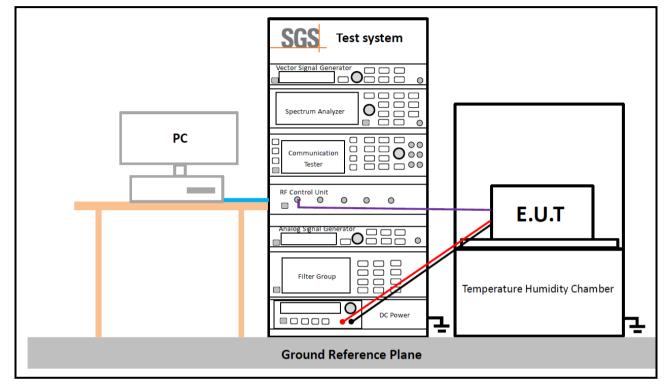


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Figure 3. above 1GHz

4.10.3 Test Setup 3





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4.11Test Conditions

Transmit Output Power Data - Average Power, Spectral Density				
Test Case	Test Conditions			
Test Environment	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	LTE/TM1;LTE/TM2; LTE/TM3			
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	LTE/TM1 Remark: All bandwidth and modulation of LTE have been pre tested, and only the worst results are reflected in the report.			



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Main Test Instruments 5

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
DC power supply	HYELEC	HY3005B	SZ-WRG-M- 024	2023/09/14	2024/09/13
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/03/20	2025/03/19
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2024/03/14	2025/03/13
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	2024/03/27	2025/03/26
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024/03/27	2025/03/26
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2024/03/14	2025/03/13
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/03/19	2025/03/18
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2024/03/20	2025/03/19



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Radiated spurious	Radiated spurious emissions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI TEST RECEIVER	Rohde & Schwarz	ESR	SZ-WRG-M-047	2024/01/30	2025/01/29
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024/01/30	2025/01/29
Low Noise Amplifier 9K-3GHz	Tonscend	TAP9K3G32	SEM005-23	2024/03/05	2025/03/04
Low Noise Amplifier 30M- 8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024/01/30	2025/01/29
Low Noise Amplifier 1G- 18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024/01/30	2025/01/29
Low Noise Amplifier 18G- 40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024/01/30	2025/01/29
Active Loop Antenna 9kHz- 30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2024/12/24
TRILOG Breitband Antenne 30MHz- 1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2024/12/24
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2024/12/20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2024/12/24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	NCR	NCR
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-S-059	NCR	NCR
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022/01/05	2025/01/04
Humidity/	D	0000	0511055.15	2023/07/28	2024/07/27
Temperature Indicator	Deli	8838	8838 SEM002-46	2024/07/24	2025/07/23
Radio Communication Tester	Anriesu	MT8821C	SZ-WRG-M-014	2023/09/14	2024/09/13

Remark: NCR=No Calibration Requirement.



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General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature	deli	8838	SEM002-32	2023/07/28	2024//07/27
Indicator				2024/07/24	2025/07/23
Humidity/ Temperature	deli	8838	SEM002-33	2023/07/28	2024/07/27
Indicator				2024/07/24	2025/07/23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024/03/18	2025/03/17



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6 **Measurement Uncertainty**

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 ⁻⁸
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Dedicted Onurious emission test(UE)	± 3.1dB (Below 1GHz)
	Radiated Spurious emission test(UE)	± 4.4dB (Above 1GHz)
Remark:	· · ·	

accordance with the recommendations of ISO 17025 as following:

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/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.1	WWAN Setup Photos
Appendix B.1	LTE

---End of Report---



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