

Report No.: SEWM2209000178RG02

Rev.:

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TEST REPORT

SEWM2209000178RG **Application No:**

Applicant: Xiamen Four-Faith Communication Technology Co., Ltd.

11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, **Address of Applicant:**

China.

Manufacturer: Xiamen Four-Faith Communication Technology Co., Ltd.

11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, Address of Manufacturer:

China.

EUT Description: 5G CPE Model No.: F-NR300 **Trade Mark:** Four-Faith

FCC ID: 2ALUW-FNR300

Standards: 47 CFR Part 2

> 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90

Date of Receipt: 2022/09/26

Date of Test: 2022/10/01 to 2022/11/24

Date of Issue: 2022/12/22

Test Result: PASS *

Authorized Signature:

Panta Sun Wireless Laboratory Manager



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



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Revision Record					
Version	Version Chapter Date Modifier Remark				
01		2022/12/22		Original	

Prepared By	weller lin
	(Weller Liu) / Test Engineer
Checked By	well wei'
	(Well Wei) / Reviewer



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2 Test Summary

2.1 NR Band n5

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	FCC: ERP ≤ 7 W	Section 1 of Appendix B.19	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Reference r SRTC2021-90 21082802	004(F)-
Modulation Characteristics	§2.1047	Digital modulation	Reference r SRTC2021-90 21082802	004(F)-
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report SRTC2021-9004(F)- 21082802(N)	
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 r SRTC2021-90 21082802	004(F)-
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 r SRTC2021-90 21082802	004(F)-
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 2 of Appendix B.19	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Reference report SRTC2021-9004(F)- 21082802(N)	

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 SRTC2021-9004(F)-21082802(N) issued by The State Radio monitoring center Testing Center (SRTC) on 2021/08/17.



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2.2 NR Band n7

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.25	Pass
Peak-Average Ratio		≤13 dB	Reference rep SRTC2021-900 21082802(N	4(F)-
Modulation Characteristics	§2.1047	Digital modulation	Reference rep SRTC2021-900 21082802(N	4(F)-
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference rep SRTC2021-900 21082802(N	4(F)-
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.	Reference rep SRTC2021-900 21082802(N	4(F)-
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Reference rep SRTC2021-900 21082802(N	4(F)-
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Section 2 of Appendix B.25	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)	Within authorized bands of operation/frequency block.	Reference rep SRTC2021-900	



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
	§27.54		21082802(N	1)

Remark: 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 SRTC2021-9004(F)-21082802(N) issued by The State Radio_monitoring_center Testing Center (SRTC) on 2021/08/17.



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2.3 NR Band n41(ENDC DC_2A-n41A/ DC_41A-n41A / DC_66A-n41A)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.25	Pass
Peak-Average Ratio		≤13 dB	Reference rep SAR20214000	902
Modulation Characteristics	§2.1047	Digital modulation	Reference rep SAR20214000	902
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference rep SAR20214000	
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.	Reference rep SAR20214000	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Reference rep SAR20214000	
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 4 MHz 9 kHz 9 5 MHz X=Max {6MHz, EBW}	Section 2 of Appendix B.25	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SAR20214000902	



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Test Item FCC Rule No. Requirements Test Result Verdict

Remark:

Remark:

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2.4 NR Band n2(ENDC DC_12A-n2A)/ NR Band n25(ENDC DC_12A-n25A)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix	Pass
Output Data			B.18&B.23	
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Reference re SAR2021400	
Modulation Characteristics	§2.1047	Digital modulation	Reference re SAR2021400	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report SAR20214000902	
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 SAR20214000902	
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 re SAR2021400	
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.18&B.23	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Reference report SAR20214000902	

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 SAR20214000902 issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch on 2021/06/14.



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2.5 NR Band n12

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.21	Pass
Peak-Average Ratio		Limit≤13 dB	Reference rep SRTC2021-9004 21082802(N	4(F)-
Modulation Characteristics	§2.1047	Digital modulation	Reference rep SRTC2021-900 21082802(N	4(F)-
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report SRTC2021-9004(F)- 21082802(N)	
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 report SRTC2021-9004(F)- 21082802(N)	
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 rep SRTC2021-900/ 21082802(N	4(F)-
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 2 of Appendix B.21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SRTC2021-9004(F)- 21082802(N)	

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 SRTC2021-9004(F)-21082802(N) issued by The State Radio monitoring_center Testing Center (SRTC) on 2021/08/17.



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2.6 NR Band n14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(d)	ERP ≤ 3 W.	Section 1 of Appendix B.22	Pass
Peak-Average Ratio		Limit≤13 dB	Reference re SRTC2021-90 21082802(04(F)-
Modulation Characteristics	§2.1047	Digital modulation	Reference re SRTC2021-90 21082802(04(F)-
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference re SRTC2021-90 21082802(004(F)-
Emission Mask	§2.1051 §90.210(n)	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 re SRTC2021-90 21082802(04(F)-
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	Reference re SRTC2021-90 21082802(04(F)-



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		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.	Reference re SRTC2021-90 21082802(04(F)-
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.22	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Reference re SRTC2021-90 21082802(04(F)-

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 SRTC2021-9004(F)-21082802(N) issued by The State Radio_monitoring_center Testing Center (SRTC) on 2021/08/17.



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2.7 NR Band n30

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	Section 1 of Appendix B.24	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Reference re SRTC2021-90 21082802(04(F)-
Modulation Characteristics	§2.1047	Digital modulation	Reference re SRTC2021-90 21082802(04(F)- N)
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Reference re SRTC2021-90 21082802(04(F)-
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 re SRTC2021-90 21082802(04(F)-
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 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 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 2320 and 2324 MHz and 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 2324 and 2328 MHz and 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 +	Reference re SRTC2021-90 21082802(04(F)-



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		10 log (P) dB 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)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.24	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the range of the operating frequency blocks	Reference re SRTC2021-90 21082802(04(F)-
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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 SRTC2021-9004(F)-21082802(N) issued by The State Radio_monitoring_center Testing Center (SRTC) on 2021/08/17.



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2.8 NR Band n66(ENDC DC_12A-n66A)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP≤1W	Section 1 of Appendix B.26	
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Reference re SAR2021400	
Modulation Characteristics	§2.1047	Digital modulation	Reference re SAR2021400	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference re SAR2021400	
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 re SAR2021400	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Reference re SAR2021400	
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.26 Pass	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference report SAR20214000902	

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 SAR20214000902 issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch on 2021/06/14.



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2.9 NR Band n71(ENDC DC_2A-n71A/DC_66A-n71A)

Test Item	FCC Rule No.	FCC Rule No. Requirements Test Re		Verdict
Effective (Isotropic) Radiated Power	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Section 1 of	Pass
Output Data	• (/(/		Appendix B.27	
Peak-Average Ratio		Limit≤13 dB	Reference re SAR2021400	
Modulation Characteristics	§2.1047	Digital modulation	Reference re SAR2021400	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference report SAR20214000902	
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 report SAR20214000902	
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 SAR2021400	
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 2 of Appendix B.27	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the authorized bands of operation.	Reference report SAR20214000902	

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 SAR20214000902 issued by SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch on 2021/06/14.



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2.10 NR Band n77 / NR Band n78

3700-3980MHz:

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Test Item	FCC Rule No. Requirements Test Result		Test Result	Verdict		
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Section 1 of Appendix B.29&B31	Pass		
Peak-Average Ratio		≤13 dB	Reference SRTC2021-9 21082802	004(F)-		
Modulation Characteristics	§2.1047	Digital modulation	Reference SRTC2021-9 21082802	004(F)-		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference SRTC2021-9 21082802	004(F)-		
Band Edges Compliance	§2.1051, §27.53(I)(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 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.	Reference report SRTC2021-9004(F)- 21082802(N) e e r d			
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.				
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 2 of Appendix B.29&B31	Pass		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Reference SRTC2021-9 21082802	0004(F)-		

Remark:

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3450-3550MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict	
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(k)(3)	EIRP ≤ 30dBm	Section 1 of Appendix B.28&B30	Pass	
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB	Reference SRTC2021-9 21082803	0004(F)-	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Reference SRTC2021-9	Reference report SRTC2021-9004(F)- 21082802(N)	
Band Edges Compliance	§2.1051, §27.50(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.	Reference report SRTC2021-9004(F)- 21082802(N)		
Spurious Emission at Antenna Terminals	§2.1051, §27.50(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.	Reference report SRTC2021-9004(F)- 21082802(N)		
Field Strength of Spurious Radiation	§2.1053, §27.50(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.	Section 2 of Appendix B.28&B30	Pass	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/ frequency block.	Reference report SRTC2021-9004(F)- 21082802(N)		

Remark:

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General Information 3

3.1 Client Information

Applicant:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Applicant:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China.
Manufacturer:	Xiamen Four-Faith Communication Technology Co., Ltd.
Address of Manufacturer:	11th Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, 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:	Weller Liu, Tizzy Song

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

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Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	5G CF	5G CPE				
Model No.:	F-NR3	F-NR300				
Trade Mark:	Four-F	aith				
Hardware Version:	V1.5					
Software Version:	FNR30	00-NA_A311294				
INACI.	RF Co	nducted	8624240500	044030		
IMEI:	RSE		8624240300	041085		
Feature:	UL 2*2	2 MIMO: n41; n77; r	178			
HPUE Power Class:	Class	Class 2: n41; n77; n78				
Antenna Type:	PCB A	PCB Antenna				
	n2:	2.92dBi(Ant0)		n5:	1.64dBi(Ant0)	
	n7:	2.77dBi(Ant0)		n12:	0.63dBi(Ant0)	
	n14:	2.21dBi(Ant0)		n25:	2.92dBi(Ant0)	
	n30:	2.81dBi(Ant0)		n66:	3.3dBi(Ant0)	
	n71:	0.36dBi(Ant0)				
Antenna Gain:	n41:	1: 2.77dBi(Ant0); 3.2dBi(Ant1)				
	n77:	n77: 2.99dBi(Ant4); 2.91dBi(Ant5)				
	n78:	n78: 2.99dBi(Ant4); 2.91dBi(Ant5)				
	Note:					
	The antenna gain are derived from the gain information report provided by the manufacturer.				tion report provided by the	
RF Cable:	0.8dB((Below 1GHz)	1.0dB(1.0~	2.4GHz)	1.2dB(2.4~3.4GHz)
RE Cable.	1.5dB(1.5dB(Above 3.4GHz)				

Remark:

- 1. This report all antennas are tested, and only the worst data is presented.
- 2.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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MIMO Model:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as

For power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};

Array Gain = $5 \log(N_{ANT}/N_{SS}=1)$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \ge 5$.

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi

 If transmit signals are correlated, then Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

• If all transmit signals are completely uncorrelated, then Directional gain = $10 \log[(10^{61/10} + 10^{62/10} + ... + 10^{6N/10})/N_{ANT}] dBi$

Band	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Power DG (dBi)
NR Band n41:	2.77	3.2	2.99
NR Band n77:	2.99	2.91	2.95
NR Band n78:	2.99	2.91	2.95



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3.5 Test Mode

Test Mode	Test Modes Description		
NR/TM1	NR system, DFT-s-Pi/2-BPSK modulation		
NR/TM2	NR system, DFT-s-QPSK modulation		
NR/TM3	NR system, DFT-s-16QAM modulation		
NR/TM4	NR system, DFT-s-64QAM modulation		
NR/TM5	NR system, DFT-s-256QAM modulation		
NR/TM6	NR system, CP-QPSK modulation		
NR/TM7	NR system, CP-16QAM modulation		
NR/TM8	NR system, CP-64QAM modulation		
NR/TM9	NR system, CP-256QAM modulation		
Remark: The test mode(s)	are selected according to relevant radio technology specifications.		

3.6 Test Environment

Environment Parameter	101 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)	
NTNV	22~23	12	

Remark:

NV: Normal Voltage NT: Normal Temperature

3.7 Description of Support Units

The EUT has been tested as an independent unit.



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3.8 Technical Specification

Characteristics	Description							
Radio System Type	⊠ SA⊠ NSA	⊠ SA ⊠ NSA						
	Band	TX	TX					
	NR Band n2	1850 to 1910	1850 to 1910 MHz) MHz			
	NR Band n5	824 to 849 N	ИHz	869 to 894 M	1Hz			
	NR Band n7	2500 to 2570	MHz	2620 to 2690) MHz			
	NR Band n12	699 to 716 M	Hz	729 to 746 M	1Hz			
	NR Band n14	788 to 798 M	Hz	758 to 768 M	1Hz			
Supported Frequency	NR Band n25	1850 to 1915	MHz	1930 to 1995	5 MHz			
	NR Band n30	2305 to 2315	MHz	2350 to 2360) MHz			
	NR Band n41	2496 to 2690	MHz	2496 to 2690) MHz			
	NR Band n66	1710 to 1780	MHz	2110 to 2180) MHz			
Range	NR Band n71	663 to 698 M	Hz	617 to 652 M	1Hz			
rango	NR Band n77	3700 to 3980	MHz	3700 to 3980) MHz			
	INK Danu II <i>I I</i>	3450 to 3550	MHz	3450 to 3550) MHz			
	NR Band n78	3700 to 3800	MHz	3700 to 3800) MHz			
	INIX Dallu III/0	3450 to 3550 MHz		3450 to 3550 MHz				
	CA_n25A-n41A; CA CA_n66A-n71A; ENDC& NRCA Only	_ y test RSE, rep	_	_	1A;			
		SCS 15kHz:	N/40 MIL-	N45 MIL	M00 M11-			
	ND Dand nO	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz			
	NR Band n2	SCS 30kHz: ⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz			
		⊠10 MHz		△20 IVI⊓Z	⊠23 MI⊓Z			
		SCS 15kHz:						
		SCS 13K12.	⊠10 MHz	⊠15 MHz	⊠20 MHz			
	NR Band n5	⊠25 MHz	⊠ TO WIT IZ		⊠ZO WII IZ			
Supported Channel	NIX Dand no	SCS 30kHz:						
		⊠10 MHz	⊠15 MHz	⊠20 MHz				
Bandwidth					⊠25 MHz			
		SCS 15kHz·			⊠25 MHz			
		SCS 15kHz: ⊠5 MHz						
		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz			
	NR Band n7							
	NR Band n7	⊠5 MHz ⊠25 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz			
	NR Band n7	⊠5 MHz ⊠25 MHz SCS 30kHz:	⊠10 MHz ⊠30 MHz	⊠15 MHz ⊠40 MHz	⊠20 MHz ⊠50 MHz			
	NR Band n7	∑5 MHz∑25 MHzSCS 30kHz:∑10 MHz	⊠10 MHz ⊠30 MHz ⊠15 MHz	⊠15 MHz ⊠40 MHz ⊠20 MHz	⊠20 MHz ⊠50 MHz			



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		SCS 30kHz:			
		⊠10 MHz	⊠15 MHz		
		SCS 15kHz:			
		⊠5 MHz	⊠10 MHz		
	NR Band n14	SCS 30kHz:			
		⊠10 MHz			
		SCS 15kHz:			
		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		 ⊠25 MHz	 ⊠30 MHz	 ⊠40 MHz	
	NR Band n25	SCS 30kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
		⊠30 MHz	⊠40 MHz		
		SCS 15kHz:			
		⊠5 MHz	⊠10 MHz		
	NR Band n30	SCS 30kHz:			
		⊠10 MHz			
		SCS 15kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠30 MHz
		⊠40 MHz	⊠50 MHz	<u> </u>	<u>⊠00 IVII 12</u>
	NR Band n41	SCS 30kHz:	<u> </u>		
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠30 MHz
		⊠40 MHz	⊠50 MHz	⊠60 MHz	⊠70 MHz
		⊠80 MHz	⊠90 MHz	⊠100 MHz	Z 7 O IVII IZ
		SCS 15kHz:	<u> </u>	□ 100 WH12	
		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠30 MHz	⊠40 MHz		ZZO WII IZ
	NR Band n66	SCS 30kHz:	<u> </u>		
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠30 MHz
		⊠40 MHz	Z 10 WH 12	ZZO WII IZ	⊠00 WH IZ
		SCS 15kHz:			
		⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	NR Band n71	SCS 30kHz:	MI O MILE	∠ 10 WH 12	MEO MILIE
		⊠10 MHz	⊠15 MHz	⊠20 MHz	
		SCS 15kHz:		<u> </u>	
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		⊠10 MHz	<u> </u>	<u> </u>	∠ . ∪ . v . i . i . L
	NR Band n77	SCS 30kHz			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		⊠50 MHz	⊠60 MHz	⊠70 MHz	⊠80 MHz
		⊠90 MHz	⊠100 MHz	<u> </u>	
		SCS 15kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
	NR Band n78	⊠30 MHz	⊠40 MHz	⊠50 MHz	MEO MILIE
		SCS 30kHz		∠JUU IVII IZ	
		JOO JUNI IZ			



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⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
⊠30 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz



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3.9 Test Frequencies

3.9.1 Reference test frequencies for NR operating band n2

3.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	1932.5	386500	
	Downlink	Mid	1960	392000	15
5		High	1987.5	397500	
5		Low	1852.5	370500	
	Uplink	Mid	1880	376000	-
		High	1907.5	381500	
		Low	1935	387000	
	Downlink	Mid	1960	392000	15
10		High	1985	397000	
10		Low	1855	371000	
	Uplink	Mid	1880	376000	-
		High	1905	381000	
		Low	1937.5	387500	
	Downlink	Mid	1960	392000	15
15		High	1982.5	396500	
13		Low	1857.5	371500	
	Uplink	Mid	1880	376000	-
		High	1902.5	380500	
		Low	1940	388000	
	Downlink	Mid	1960	392000	15
20		High	1980	396000	
20	_	Low	1860	372000	
	Uplink	Mid	1880	376000	_
		High	1900	380000	



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3.9.1.2 Test frequencies for NR operating band n2 and SCS 30 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	1935	387000	
	Downlink	Mid	1960	392000	30
10		High	1985	397000	
10		Low	1855	371000	
	Uplink	Mid	1880	376000	-
		High	1905	381000	
		Low	1937.5	387500	
	Downlink	Mid	1960	392000	30
15		High	1982.5	396500	
15		Low	1857.5	371500	
	Uplink	Mid	1880	376000	-
		High	1902.5	380500	
	Downlink	Low	1940	388000	
		Mid	1960	392000	30
20		High	1980	396000	
20		Low	1860	372000	
	Uplink	Mid	1880	376000	-
	-	High	1900	380000]
		Low	1942.5	388500	
	Downlink	Mid	1960	392000	30
25		High	1977.5	395500]
25		Low	1862.5	372500	
	Uplink	Mid	1880	376000	-
	-	High	1897.5	379500]
		Low	1945	389000	
	Downlink	Mid	1960	392000	30
20		High	1975	395000]
30		Low	1865	373000	
	Uplink	Mid	1880	376000	i _
	·	High	1895	379000]



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Reference test frequencies for NR operating band n5

3.9.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz

CBW	Range	<u> </u>	Carrier centre	Carrier centre	SS block SCS
[MHz]			[MHz]	[ARFCN]	[kHz]
		Low	871.5	174300	
	Downlink	Mid	881.5	176300	15
_		High	891.5	178300	
5		Low	826.5	165300	
	Uplink	Mid	836.5	167300	-
		High	846.5	169300	
	Downlink	Low	874	174800	
		Mid	881.5	176300	15
10		High	889	177800	
10		Low	829	165800	
	Uplink	Mid	836.5	167300	-
	•	High	844	168800	1
	Downlink	Low	876.5	175300	
		Mid	881.5	176300	15
15		High	886.5	177300	
15		Low	831.5	166300	
	Uplink	Mid	836.5	167300	-
	•	High	841.5	168300	
		Low	879	175800	
	Downlink	Mid	881.5	176300	15
20		High	884	176800	
20		Low	834	166800	
	Uplink	Mid	836.5	167300	-
		High	839	167800	
		Low	881.5	176300	
	Downlink	Mid	881.5	176300	15
25		High	881.5	176300	
25		Low	836.5	167300	
	Uplink	Mid	836.5	167300	-
		High	836.5	167300	



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Test frequencies for NR operating band n5 and SCS 30 kHz 3.9.2.2

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Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]	
	Downlink	Low	874	174800	30	
		Mid	881.5	176300		
10		High	889	177800]	
10	Uplink	Low	829	165800	-	
		Mid	836.5	167300]	
		High	844	168800]	
	Downlink	Low	876.5	175300	30	
		Mid	881.5	176300]	
45		High	886.5	177300]	
15	15 Uplink	Low	831.5	166300	-	
	·	Mid	836.5	167300]	
		High	841.5	168300]	
	Downlink	Low	879	175800	30	
		Mid	881.5	176300		
20		High	884	176800]	
20	Uplink	Low	834	166800	-	
		Mid	836.5	167300]	
		High	839	167800]	
	Downlink	Low	881.5	176300	30	
		Mid	881.5	176300]	
25		High	881.5	176300]	
25	Uplink	Low	836.5	167300	-	
		Mid	836.5	167300		
		High	836.5	167300		



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Reference test frequencies for NR operating band n7 3.9.3.1 Test frequencies for NR operating band n7 and SCS 15 kHz

Bandwidth [MHz]	quencies for NR operat		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
[1411 12]		Low	2622.5	524500	OOO [KI12]
	Downlink	Mid	2655	531000	15
	Bowinin	High	2687.5	537500	- 10
5		Low	2502.5	500500	
	Uplink	Mid	2535	507000	_
	Op	High	2567.5	513500	
		Low	2625	525000	
	Downlink	Mid	2655	531000	15
		High	2685	537000	
10		Low	2505	501000	
	Uplink	Mid	2535	507000	
	Op	High	2565	513000	
		Low	2627.5	525500	
	Downlink	Mid	2655	531000	15
		High	2682.5	536500	1
15		Low	2507.5	501500	
	Uplink	Mid	2535	507000	_
	op	High	2562.5	512500	
		Low	2630	526000	
	Downlink	Mid	2655	531000	15
	2011111111	High	2680	536000	
20		Low	2510	502000	
	Uplink	Mid	2535	507000	_
	Op	High	2560	512000	
		Low	2632.5	526500	
	Downlink	Mid	2655	531000	15
0.5		High	2677.5	535500	1
25			502500		
	Uplink	Mid	2535	507000	_
	- 1	High	2557.5	511500	
		Low	2635	52700	
	Downlink	Mid	2655	531000	15
00		High	2675	535000	
30		Low	2515	503000	
	Uplink	Mid	2535	507000	_
	·	High	2555	511000	
		Low	2640	528000	
	Downlink	Mid	2655	531000	15
		High	2670	534000	
40		Low	2520	504000	
	Uplink	Mid	2535	507000	1 _
	Оршк		2550	510000	-
		High	2645	529000	
		Low Mid	2655	531000	-
	Downlink	High	2665	533000	15
50			2525	505000	
		Low			-
	Uplink	Mid	2535	507000	_



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3.9.3.2 Test frequencies for NR operating band n7 and SCS 30 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	2625	525000	
	Downlink	Mid	2655	531000	15
10		High	2685	537000	1
10		Low	2505	501000	
	Uplink	Mid	2535	507000	-
	·	High	2565	513000	
		Low	2627.5	525500	
	Downlink	Mid	2655	531000	15
45		High	2682.5	536500	1
15		Low	2507.5	501500	
	Uplink	Mid	2535	507000	T -
	·	High	2562.5	512500	1
		Low	2630	526000	
	Downlink	Mid	2655	531000	15
00		High	2680	536000	7
20		Low	2510	502000	
	Uplink	Mid	2535	507000	T -
	'	High	2560	512000	7
		Low	2632.5	526500	
	Downlink	Mid	2655	531000	15
		High	2677.5	535500	
25		Low	2512.5	502500	
	Uplink	Mid		507000	-
	'	High	2557.5	511500	1
		Low	2635	52700	
	Downlink	Mid	2655	531000	15
20		High	2675	535000	1
30		Low	2515	503000	
	Uplink	Mid	2535	507000	-
	-1	High	2555	511000	1
		Low	2640	528000	
	Downlink	Mid	2655	531000	15
40		High	2670	534000	1
40		Low	2520	504000	
	Uplink	Mid	2535	507000	╡ -
	- 1	High	2550	510000	7
		Low	2645	529000	
	Downlink	Mid	2655	531000	15
	_ · · · · · · · · · · · · · · · · · · ·	High	2665	533000	┪
50		Low	2525	505000	†
	Holink	Mid	2535	507000	-
	Uplink				-
		High	2545	509000	



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Reference test frequencies for NR operating band n12

3.9.4.1 Test frequencies for NR operating band n12 and SCS 15 kHz

Bandwidth [MHz]	Rang		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	731.5	146300	• •
	Downlink	Mid	737.5	147500	15
5		High	743.5	148700	
3		Low	701.5	140300	
	Uplink	Mid	707.5	141500	
		High	713.5	142700	
		Low	734	146800	
	Downlink	Mid	737.5	147500	15
10		High	741	148200	
10		Low	704	140800	
	Uplink	Mid	707.5	141500	
		High	711	142200	
		Low	736.5	147300	
	Downlink	Mid	737.5	147500	15
15		High	738.5	147700	
15		Low	706.5	141300	
	Uplink	Mid	707.5	141500	
		High	708.5	141700	

3.9.4.2 Test frequencies for NR operating band n12 and SCS 30 kHz

Bandwidth [MHz]	Rang	e	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	734	146800	
	Downlink	Mid	737.5	147500	30
10		High	741	148200	
10		Low	704	140800	
	Uplink	Mid	707.5	141500	
		High	711	142200	
		Low	736.5	147300	
	Downlink	Mid	737.5	147500	30
45		High	738.5	147700	
15	_	Low	706.5	141300	
	Uplink	Mid	707.5	141500	
		High	708.5	141700	



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Reference test frequencies for NR operating band n14 3.9.5

3.9.5.1 Test frequencies for NR operating band n14 and SCS 15 kHz

Bandwidth [MHz]	Rang	е	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	760.5	151200	
	Downlink	Mid	763	152600	15
5		High	765.5	153100	
5		Low	790.5	158100	
	Uplink	Mid	793	158600	
		High	795.5	159100	
		Low	1	1	
	Downlink	Mid	763	152600	15
10		High	1	1	
10		Low	1	1	
	Uplink	Mid	763	152600	
		High	1	1	

3.9.5.2 Test frequencies for NR operating band n14 and SCS 30 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
10	Downlink	Low	763	152600	30
		Mid	1	1	
		High	1	1	
	Uplink	Low	793	158600	
		Mid	1	1	
		High	1	1	



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Reference test frequencies for NR operating band n25

3.9.6.1 Test frequencies for NR operating band n25 and SCS 15 kHz

CBW	Range		Carrier centre	Carrier centre [ARFCN]	SS block SCS [kHz]
[MHz]			[MHz]		
	Downlink	Low	1932.5	386500	15
		Mid	1962.5	392500	
5		High	1992.5	398500	
3	Uplink	Low	1852.5	370500	- -
		Mid	1882.5	376500	
		High	1912.5	382500	
	Downlink	Low	1935	387000	
		Mid	1962.5	392500	15
10		High	1990	398000	
10	Uplink	Low	1855	371000	-
		Mid	1882.5	376500	
		High	1910	382000	
		Low	1937.5	387500	
	Downlink	Mid	1962.5	392500	15
15		High	1987.5	397500	
13	Uplink	Low	1857.5	371500	_
		Mid	1882.5	376500	
		High	1907.5	381500	
	Downlink	Low	1940	388000	15
		Mid	1962.5	392500	
20		High	1985	397000	
20	Uplink	Low	1860	372000	-
		Mid	1882.5	376500	
		High	1905	381000	
	Downlink	Low	1942.5	388500	15
		Mid	1962.5	392500	
25		High	1982.5	396500	
23	Uplink	Low	1862.5	372500	-
		Mid	1882.5	376500	
		High	1902.5	380500	
	Downlink	Low	1945	389000	
		Mid	1962.5	392500	15
30		High	1980	396000	
30	Uplink	Low	1865	373000	-
		Mid	1882.5	376500	
		High	1900	380000	
	Downlink	Low	1950	390000	15
		Mid	1962.5	392500	
40		High	1975	395000	
40	Uplink	Low	1870	374000	
		Mid	1882.5	376500	
			1895	379000	
		High	1095	379000	



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3.9.6.2 Test frequencies for NR operating band n25 and SCS 30 kHz

CBW [MHz]	Range		Carrier centre Carrier centre [MHz] [ARFCN]		SS block SCS [kHz]
	Downlink	Low	1935	387000	
		Mid	1962.5	392500	30
10		High	1990	398000	
	Uplink	Low	1855	371000	-
		Mid	1882.5	376500	
		High	1910	382000	
		Low	1937.5	387500	30
	Downlink	Mid	1962.5	392500	
15		High	1987.5	397500	
15		Low	1857.5	371500	_
	Uplink	Mid	1882.5	376500	
		High	1907.5	381500	
	Downlink	Low	1940	388000	30
		Mid	1962.5	392500	
20		High	1985	397000	
20	Uplink	Low	1860	372000	-
		Mid	1882.5	376500	
		High	1905	381000	
	Downlink	Low	1942.5	388500	30
		Mid	1962.5	392500	
25		High	1982.5	396500	
25	Uplink	Low	1862.5	372500	-
		Mid	1882.5	376500	
	-	High	1902.5	380500	
		Low	1945	389000	30
	Downlink	Mid	1962.5	392500	
20		High	1980	396000	
30		Low	1865	373000	-
	Uplink	Mid	1882.5	376500	
	-1	High	1900	380000	
	Downlink	Low	1950	390000	30
		Mid	1962.5	392500	
40		High	1975	395000	
40	Uplink	Low	1870	374000	-
		Mid	1882.5	376500	
		High	1895	379000	



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3.9.7 Reference test frequencies for NR operating band n30 3.9.7.1 Test frequencies for NR operating band n30 and SCS 15 kHz

CBW Range Carrier centre Carrier centre SS block SCS [MHz] [MHz] [ARFCN] [kHz] 2352.5 470500 Low 2355 471000 Downlink Mid 15 2357.5 471500 High 5 2307.5 461500 Low Uplink Mid 2310 462000 High 2312.5 462500 Low 2355 471000 2355 Downlink Mid 471000 15 2355 471000 High 10 2310 462000 Low 2310 462000 Uplink Mid High 2310 462000

3.9.7.2 Test frequencies for NR operating band n30 and SCS 30 kHz

5.5.7.2 rest frequencies for first operating band floo and 600 50 km2							
CBW [MHz]	Range	9	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]		
		Low	2355	471000			
	Downlink	Mid	2355	471000	30		
10		High	2355	471000			
10		Low	2310	462000			
	Uplink	Mid	2310	462000	-		
		High	2310	462000			



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Reference test frequencies for NR operating band n41 3.9.8

3.9.8.1 Test frequencies for NR operating band n41 and SCS 15 kHz

3.9.6.1 Test frequencies for NK operating band fight and 303 13 kHz							
CBW	Range		Carrier centre	Carrier centre	SS block SCS		
[MHz]			[MHz]	[ARFCN]	[kHz]		
	Downlink	Low	2501.01	500202			
10	&	Mid	2593.005	518601	15		
	Uplink	High	2685	537000			
	Downlink	Low	2503.5	500700			
15	&	Mid	2593.005	518601	15		
	Uplink	High	2682.495	536499			
	Downlink	Low	2506.005	501201			
20	&	Mid	2593.005	518601	15		
	Uplink	High	2679.99	535998			
	Downlink	Low	2511	502200			
30	&	Mid	2593.005	518601	15		
	Uplink	High	2674.995	534999			
	Downlink	Low	2516.01	503202			
40	&	Mid	2593.005	518601	15		
	Uplink	High	2670	534000			
	Downlink	Low	2521.005	504201			
50	&	Mid	2593.005	518601	15		
	Uplink	High	2664.99	532998			



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3.9.8.2 Test frequencies for NR operating band n41 and SCS 30 kHz

CPW Page Carrier centre Carrier centre SS h						
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]	
	Downlink	Low	2501.01	500202		
10	&	Mid	2592.99	518598	30	
	Uplink	High	2685	537000	1	
	Downlink	Low	2503.5	500700		
15	&	Mid	2592.99	518598	30	
	Uplink	High	2682.48	536496	1	
	Downlink	Low	2506.02	501204		
20	&	Mid	2592.99	518598	30	
	Uplink	High	2670	534000	1	
	Downlink	Low	2511	502200		
30	&	Mid	2592.99	518598	30	
	Uplink	High	2675	535000	1	
	Downlink	Low	2516.01	503202		
40	&	Mid	2592.99	518598	30	
	Uplink	High	2670	534000	1	
	Downlink	Low	2521.02	504204		
50	&	Mid	2592.99	518598	30	
	Uplink	High	2664.99	532998	1	
	Downlink	Low	2526	505200		
60	&	Mid	2592.99	518598	30	
	Uplink	High	2659.98	531996	1	
	Downlink	Low	2536.02	507204		
70	&	Mid	2592.99	518598	30	
	Uplink	High	2649.99	529998	1	
	Downlink	Low	2536.02	507204		
80	&	Mid	2592.99	518598	30	
	Uplink	High	2649.99	529998	1 	
	Downlink	Low	2541	508200	30	
90	&	Mid	2592.99	518598		
	Uplink	High	2644.98	528996		
	Downlink	Low	2546.01	509202		
100	&	Mid	2592.99	518598	30	
	Uplink	High	2640	528000	1	



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3.9.9 Reference test frequencies for NR operating band n66

3.9.9.1 Test frequencies for NR operating band n66 and SCS 15 kHz

CBW	Range	, ,	Carrier centre	Carrier centre	SS block SCS
[MHz]			[MHz]	[ARFCN]	[kHz]
		Low	2112.5	422500	
	Downlink	Mid	2145	429000	15
5		High	2177.5	435500	
3		Low	1712.5	342500	
	Uplink	Mid	1745	349000	-
		High	1777.5	355500	
		Low	2115	423000	
	Downlink	Mid	2145	429000	15
10		High	2175	435000	
10		Low	1715	343000	
	Uplink	Mid	1745	349000	-
		High	1775	355000	
		Low	2117.5	423500	
	Downlink	Mid	2145	429000	15
15		High	2172.5	434500	
15		Low	1717.5	343500	
	Uplink	Mid	1745	349000	-
		High	1772.5	354500]
	Downlink	Low	2120	424000	
		Mid	2145	429000	15
20		High	2170	434000	
20		Low	1720	344000	
	Uplink	Mid	1745	349000	-
		High	1770	354000	
		Low	2125	425000	
	Downlink	Mid	2145	429000	15
30		High	2165	433000]
30	<u> </u>	Low	1725	345000	
	Uplink	Mid	1745	349000	-
		High	1765	353000	
		Low	2130	426000	
40	Downlink	Mid	2145	429000	15
		High	2160	432000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	-
		High	1760	352000	



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3.9.9.2 Test frequencies for NR operating band n66 and SCS 30 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
•		Low	2115	423000	
	Downlink	Mid	2145	429000	30
10		High	2175	435000	1
10		Low	1715	343000	
	Uplink	Mid	1745	349000	-
		High	1775	355000	
		Low	2117.5	423500	
	Downlink	Mid	2145	429000	30
15		High	2172.5	434500	
15		Low	1717.5	343500	
	Uplink	Mid	1745	349000	-
		High	1772.5	354500	
		Low	2120	424000	30
	Downlink	Mid	2145	429000	
20		High	2170	434000	
20	Uplink	Low	1720	344000	-
		Mid	1745	349000	
		High	1770	354000	
		Low	2125	425000	
	Downlink	Mid	2145	429000	30
30		High	2165	433000	
30		Low	1725	345000	
	Uplink	Mid	1745	349000	-
		High	1765	353000	1
	<u> </u>	Low	2130	426000	
	Downlink	Mid	2145	429000	30
40		High	2160	432000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	1 -
		High	1760	352000]



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3.9.10 Reference test frequencies for NR operating band n71 3.9.10.1 Test frequencies for NR operating band n71 and SCS 15 kHz

	3.9.10.1 Test frequencies for NR operating band n/1 and SCS 15 kHz							
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]			
		Low	619.5	123900				
	Downlink	Mid	634.5	126900	15			
5		High	649.5	129900				
3		Low	665.5	133100				
	Uplink	Mid	680.5	136100	-			
		High	695.5	139100				
		Low	622	124400				
	Downlink	Mid	634.5	126900	15			
10		High	647	129400				
10		Low	668	133600				
	Uplink	Mid	680.5	136100	-			
		High	693	138600				
		Low	624.5	124900				
	Downlink	Mid	634.5	126900	15			
15		High	644.5	128900				
15		Low	670.5	134100				
	Uplink	Mid	680.5	136100	-			
		High	690.5	138100				
		Low	627	125400				
	Downlink	Mid	634.5	126900	15			
20		High	642	128400				
20		Low	673	134600				
	Uplink	Mid	680.5	136100	_			
		High	688	137600				

3.9.10.1 Test frequencies for NR operating band n71 and SCS 30 kHz							
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]		
		Low	622	124400			
	Downlink	Mid	634.5	126900	30		
10		High	647	129400			
10		Low	668	133600			
	Uplink	Mid	680.5	136100	-		
		High	693	138600			
		Low	624.5	124900			
	Downlink	Mid	634.5	126900	30		
15		High	644.5	128900			
13		Low	670.5	134100			
	Uplink	Mid	680.5	136100	-		
		High	690.5	138100			
		Low	627	125400			
	Downlink	Mid	634.5	126900	30		
20		High	642	128400			
		Low	673	134600			
	Uplink	Mid	680.5	136100] -		
		High	688	137600			



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3.9.11 Reference test frequencies for NR operating band n77 3.9.11.1 Test frequencies for NR operating band n77 and SCS 15 kHz

3700-3980:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3705	647000	
10	&	Mid	3840	656000	15
	Uplink	High	3975	665000	
	Downlink	Low	3707.52	647168	
15	&	Mid	3840	656000	15
	Uplink	High	3972.48	664832	
	Downlink	Low	3710.01	647334	
20	&	Mid	3840	656000	15
	Uplink	High	3969.99	664666	
	Downlink	Low	3720	648000	
40	&	Mid	3840	656000	15
	Uplink	High	3960	664000	
	Downlink	Low	3725.01	648334	
50	&	Mid	3840	656000	15
	Uplink	High	3954.99	663666	

3450-3550.

CBW [MHz]	Range	•	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3455.01	630334	
10	&	Mid	3500.01	633334	15
	Uplink	High	3545.01	636334	
	Downlink	Low	3457.5	630500	
15	&	Mid	3500.01	633334	15
	Uplink	High	3542.49	636166	
	Downlink	Low	3460.02	630668	
20	&	Mid	3500.01	633334	15
	Uplink	High	3540	636000	
	Downlink	Low	3470.01	631334	
40	&	Mid	3500.01	633334	15
	Uplink	High	3530.01	635334	



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3.9.11.2 Test frequencies for NR operating band n77 and SCS 30 kHz

3700-3980:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3705	647000	
10	&	Mid	3840	656000	30
	Uplink	High	3975	665000	
	Downlink	Low	3707.52	647168	
15	&	Mid	3840	656000	30
	Uplink	High	3972.48	664832	
	Downlink	Low	3710.01	647334	
20	&	Mid	3840	656000	30
	Uplink	High	3969.99	664666	
	Downlink	Low	3720	648000	
40	&	Mid	3840	656000	30
	Uplink	High	3960	664000	1
	Downlink	Low	3725.01	648334	
50	&	Mid	3840	656000	30
	Uplink	High	3954.99	663666	
	Downlink	Low	3730.02	648668	
60	&	Mid	3840	656000	30
	Uplink	High	3949.98	663332	
	Downlink	Low	3735	649000	
70	&	Mid	3840	656000	30
	Uplink	High	3945	663000	
	Downlink	Low	3740.01	649334	
80	&	Mid	3840	656000	30
	Uplink	High	3939.99	662666	
	Downlink	Low	3745.02	649668	
90	&	Mid	3840	656000	30
	Uplink	High	3934.98	662332	
	Downlink	Low	3750	650000	
100	&	Mid	3840	656000	30
	Uplink	High	3930	662000	



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3450-3550:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3455.01	630334	
10	&	Mid	3500.01	633334	30
	Uplink	High	3545.01	636334	
	Downlink	Low	3457.5	630500	
15	&	Mid	3500.01	633334	30
	Uplink	High	3542.49	636166	
	Downlink	Low	3460.02	630668	
20	&	Mid	3500.01	633334	30
	Uplink	High	3540	636000	
	Downlink	Low	3470.01	631334	
40	&	Mid	3500.01	633334	30
	Uplink	High	3530.01	635334	
	Downlink	Low	3475.02	631668	
50	&	Mid	3500.01	633334	30
	Uplink	High	3525	635000	
	Downlink	Low	3480	632000	
60	&	Mid	3500.01	633334	30
	Uplink	High	3519.99	634666	
	Downlink	Low	3485.01	632334	
70	&	Mid	3500.01	633334	30
	Uplink	High	3515.01	634334	
	Downlink	Low	3490.02	632668	
80	&	Mid	3500.01	633334	30
	Uplink	High	3510	634000	
	Downlink	Low	3495	633000	
90	&	Mid	3500.01	633334	30
	Uplink	High	3504.99	633666	
	Downlink	Low	\	\	
100	&	Mid	3500.01	633334	30
	Uplink	High	\	\	



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3.9.12 Reference test frequencies for NR operating band n78 3.9.12.1 Test frequencies for NR operating band n78 and SCS 15 kHz

3700-3800:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3705	647000	
10	&	Mid	3750	650000	15
	Uplink	High	3795	653000	
	Downlink	Low	3707.52	647168	
15	&	Mid	3750	650000	15
	Uplink	High	3792.48	652832	
	Downlink	Low	3710.01	647334	
20	&	Mid	3750	650000	15
	Uplink	High	3789.99	652666	
	Downlink	Low	3712.5	647500	
25	&	Mid	3840	656000	15
	Uplink	High	3967.5	664500	
	Downlink	Low	3715.02	647668	
30	&	Mid	3750	650000	15
	Uplink	High	3785.01	652334	
	Downlink	Low	3720	648000	
40	&	Mid	3750	650000	15
	Uplink	High	3780	652000	
	Downlink	Low	3725.01	648334	
50	&	Mid	3750	650000	15
	Uplink	High	3774.99	651666	1

2450 2550

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3455.01	630334	
10	&	Mid	3500.01	633334	15
	Uplink	High	3545.01	636334	
	Downlink	Low	3457.5	630500	
15	&	Mid	3500.01	633334	15
	Uplink	High	3542.49	636166	
	Downlink	Low	3460.02	630668	
20	&	Mid	3500.01	633334	15
	Uplink	High	3540	636000	
	Downlink	Low	3462.51	630834	
25	&	Mid	3500.01	633334	15
	Uplink	High	3537.51	635834	
	Downlink	Low	3465	631000	
30	&	Mid	3500.01	633334	15
	Uplink	High	3534.99	635666	
	Downlink	Low	3470.01	631334	
40	&	Mid	3500.01	633334	15
	Uplink	High	3530.01	635334]
	Downlink	Low	3475.02	631668	
50	&	Mid	3500.01	633334	15
	Uplink	High	3525	635000]



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3.9.12.2 Test frequencies for NR operating band n78 and SCS 30 kHz

3700-3800:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3705	647000	
10	&	Mid	3750	650000	30
	Uplink	High	3795	653000	
	Downlink	Low	3707.52	647168	
15	&	Mid	3750	650000	30
	Uplink	High	3792.48	652832	
	Downlink	Low	3710.01	647334	
20	&	Mid	3750	650000	30
	Uplink	High	3789.99	652666	
	Downlink	Low	3712.5	647500	
25	&	Mid	3840	656000	30
	Uplink	High	3967.5	664500	
	Downlink	Low	3715.02	647668	
30	&	Mid	3750	650000	30
	Uplink	High	3785.01	652334	
	Downlink	Low	3720	648000	
40	&	Mid	3750	650000	30
	Uplink	High	3780	652000	
	Downlink	Low	3725.01	648334	
50	&	Mid	3750	650000	30
	Uplink	High	3774.99	651666	
	Downlink	Low	3730.02	648668	
60	&	Mid	3750	650000	30
	Uplink	High	3769.98	651332	
	Downlink	Low	3735	649000	
70	&	Mid	3750	650000	30
	Uplink	High	3765	651000	
	Downlink	Low	3740.01	649334	
80	&	Mid	3750	650000	30
	Uplink	High	3759.99	650666	
90	Downlink	Low	3745.02	649668	
	&	Mid	3750	650000	30
	Uplink	High	3754.98	650332	
	Downlink	Low	1	/	
100	&	Mid	3750	650000	30
	Uplink	High	1	1	



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3450-3550:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3455.01	630334	
10	&	Mid	3500.01	633334	30
	Uplink	High	3545.01	636334	
	Downlink	Low	3457.5	630500	
15	&	Mid	3500.01	633334	30
	Uplink	High	3542.49	636166	
	Downlink	Low	3460.02	630668	
20	&	Mid	3500.01	633334	30
	Uplink	High	3540	636000	
	Downlink	Low	3462.51	630834	
25	&	Mid	3500.01	633334	30
	Uplink	High	3537.51	635834	
	Downlink	Low	3465	631000	
30	&	Mid	3500.01	633334	30
	Uplink	High	3534.99	635666	
	Downlink	Low	3470.01	631334	
40	&	Mid	3500.01	633334	30
	Uplink	High	3530.01	635334	
	Downlink	Low	3475.02	631668	
50	&	Mid	3500.01	633334	30
	Uplink	High	3525	635000	
	Downlink	Low	3480	632000	
60	&	Mid	3500.01	633334	30
	Uplink	High	3519.99	634666	
	Downlink	Low	3485.01	632334	
70	&	Mid	3500.01	633334	30
	Uplink	High	3515.01	634334	
	Downlink	Low	3490.02	632668	
80	&	Mid	3500.01	633334	30
	Uplink	High	3510	634000	
90	Downlink	Low	3495	633000	
	&	Mid	3500.01	633334	30
	Uplink	High	3504.99	633666]
	Downlink	Low	\	\	
100	&	Mid	3500.01	633334	30
	Uplink	High	\	\	1 1



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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: C63.26 -2015 section 5.2.4

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 ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep ≥ 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 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
- VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- Sweep = auto couple
- 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 peak or peak hold power.

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
- 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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4.6 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
- 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 (dB μ V/m) = Measured amplitude level (μ V/m) + (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

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 & 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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4.9 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 $\pm 0.00025\%$ (± 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





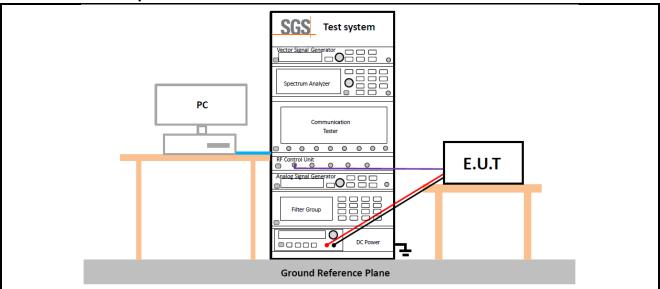
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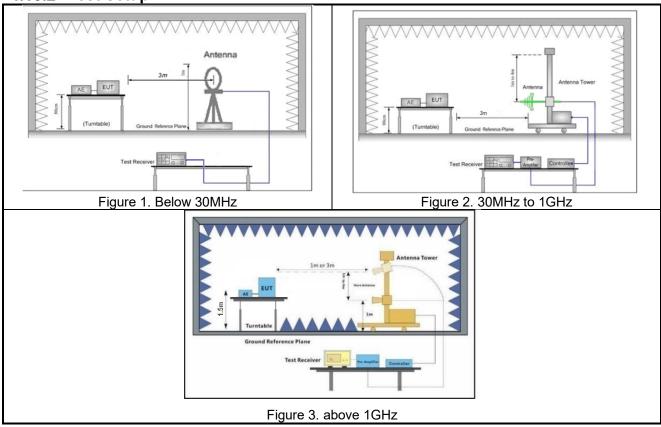
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4.10 Test Setups

4.10.1 Test Setup 1



4.10.2 **Test Setup 2**





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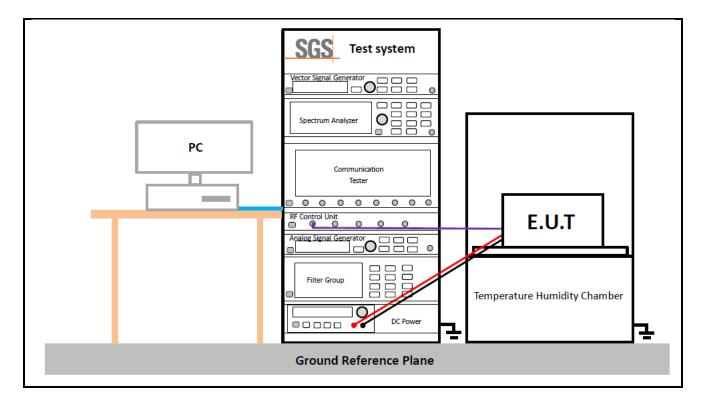


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4.10.3 Test Setup 3





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4.11 Test Conditions

Transmit Output Power Data - Average Power, Total				
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	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9			
·				
	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	NR/TM1 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.			



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5 Main Test Instruments

RF conducted test						
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)	
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	2022/02/16	2023/02/15	
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16	
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR	
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13	
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14	
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14	
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27	
Wideband Radio Communication Tester station	Anritsu	MT8000A	SUWI-01-34-02	2022/09/16	2023/09/15	



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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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2022/02/20	2023/02/19
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	Radiated Emission	± 4.8dB (30M -1GHz)	
2	Radiated Emission	± 4.8dB (1GHz to 18 GHz)	
		± 4.8dB (Above 18GHz)	

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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