

Report No.: SEWM2212000297RG02

Rev.: 01

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TEST REPORT

Application No: SEWM2212000297RG

Applicant: MeiG Smart Technology Co., Ltd

Address of Applicant: 2nd Floor, Office Building, No.5 Lingxia Road, Fenghuang, Fuyong

Street,Bao'an District,Shenzhen

Manufacturer: MeiG Smart Technology Co., Ltd

Address of Manufacturer: 2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong

Street, Bao'an District, Shenzhen

EUT Description: SRM825

Model No.: SRM825N-NA

Trade Mark: MEIGLink

FCC ID: 2APJ4-SRM825NNA

Standards: 47 CFR Part 2

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

Date of Receipt: 2022/12/08

Date of Test: 2022/12/08 to 2023/02/13

Date of Issue: 2023/02/15

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.

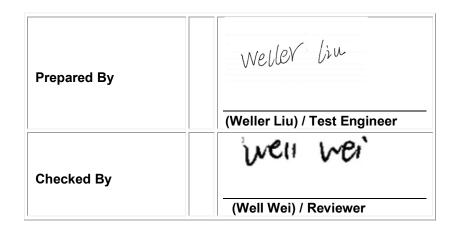


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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2023/02/15		Original	





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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.21	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.21	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.21	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.21	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.	Section 5 of Appendix B.21	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.	Section 6 of Appendix B.21	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B.21	Pass



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2.2 NR Band n7 / NR Band n41

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.22&B.25	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.22&B.25	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.22&B.25	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.22&B.25	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.	Section 5 of Appendix B.22&B.25	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Section 6 of Appendix B.22&B.25	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25 dBm/ 1 MHz 1 MHz 9 kHz 9.5 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Section 7 of Appendix B.22&B.25	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.22&B.25	Pass



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2.3 NR Band n2/ NR Band n25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix B.20&B.24	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.20&B.24	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.20&B.24	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.20&B.24	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.	Section 5 of Appendix B.20&B.24	Pass
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.	Section 6 of Appendix B.20&B.24	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.20&B.24	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.20&B.24	Pass



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2.4 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.23	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.23	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.23	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.23	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.	Section 5 of Appendix B.23	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.	Section 6 of Appendix B.23	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.23	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.23	Pass



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2.5 NR Band n66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix B.26	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.26	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.26	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.26	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.	Section 5 of Appendix B.26	Pass
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.	Section 6 of Appendix B.26	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 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.	Section 8 of Appendix B.26	Pass



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2.6 NR Band n71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W	Section 1 of Appendix B.27	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.27	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.27	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.27	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.	Section 5 of Appendix B.27	Pass
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.	Section 6 of Appendix B.27	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.27	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1)§27.54	within the authorized bands of operation.	Section 8 of Appendix B.27	Pass



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2.7 NR Band n77

3700-3980MHz:

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Section 1 of Appendix B.29	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B329	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B329	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B329	Pass
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 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.	Section 5 of Appendix B.29	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 6 of Appendix B.29	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 7 of Appendix B.29	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.29	Pass



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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	Pass
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB	Section 2 of Appendix B.28	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.28	Pass
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.	Section 5 of Appendix B.28	Pass
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.	Section 6 of Appendix B.28	Pass
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 7 of Appendix B.28	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/ frequency block.	Section 8 of Appendix B.28	Pass



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General Information

3.1 Client Information

Applicant:	MeiG Smart Technology Co., Ltd
Address of Applicant:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Manufacturer:	MeiG Smart Technology Co., Ltd
Address of Manufacturer:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen

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, King-p Li

3.3 Test Facility

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

• A2LA (Certificate No. 6336.01)

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

FCC –Designation Number: CN1312

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

accredited testing laboratory. Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	SRM82	SRM825					
Model No.:	SRM82	SRM825N-NA					
Trade Mark:	MEIGLi	MEIGLink					
Hardware Version:	SRM82	5WN_X62_V1.01					
Software Version:	SRM82	5N_6.0.3_EQ101					
INACL	RF Con	ducted	86161006003	37434			
IMEI:	RSE		86061006003	37343			
Feature:	UL 2*2 I	MIMO: n41; n77					
HPUE Power Class:	Class 2: n41; n77						
Antenna Type:	⊠ External, □ Integrated						
	n2:	-1.1dBi(Ant0)		n5:	-1.1dBi(Ant2)		
	n7:	1.9dBi(Ant0)		n12:	1.3dBi(Ant2)		
	n25:	-1.1dBi(Ant0)		n41:	1.9dBi(Ant0); 1.9dBi(Ant2)		
Antenna Gain:	n66:	-1.4dBi(Ant0)		n71:	1.1dBi(Ant1)		
	n77:	3.1dBi(Ant1); 3.	1dBi(Ant3)				
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.						
DE Cable	0.8dB(Below 1GHz) 1.0dB(1.0~2.4GHz) 1.2dB(2.4~3.4GHz)				1.2dB(2.4~3.4GHz)		
RF Cable:	1.5dB(Above 3.4GHz)						
As above information is pro suitability, reliability or/and			applicant. SG	S is not li	able to the accuracy,		



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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 follows.

• 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^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/N_{ANT}] dBi

Band	ANT Gain1 (dBi)	ANT Gain2 (dBi)	Power DG (dBi)
NR Band n41:	1.9	1.9	1.9
NR Band n77:	3.1	3.1	3.1



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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/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	44-46 % RH Ambient		
Value	Temperature(°C)	Voltage(V)		
NTNV	22~23	3.8		
LTLV	-40	3.3		
LTHV	-40	4.4		
HTLV	75	3.3		
HTHV	75	4.4		
•	ow Extreme Test Voltage ow Extreme Test Temperature	HV: High Extreme Test Voltage HT: High Extreme Test 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		RX		
	NR Band n2	1850 to 1910	MHz	1930 to 1990	1930 to 1990 MHz		
	NR Band n5	824 to 849 N	ИНz	869 to 894 N	ИHz		
	NR Band n7	2500 to 2570	MHz	2620 to 2690) MHz		
	NR Band n12	699 to 716 M	Hz	729 to 746 N	ИHz		
	NR Band n25	1850 to 1915	MHz	1930 to 1999	5 MHz		
	NR Band n41	2496 to 2690	MHz	2496 to 2690) MHz		
	NR Band n66	1710 to 1780	MHz	2110 to 2180) MHz		
Supported Frequency	NR Band n71	663 to 698 M	Hz	617 to 652 N	ИНz		
Range	NR Band n77	3700 to 3980	MHz	3700 to 3980) MHz		
	INK Band n//	3450 to 3550	MHz	3450 to 3550) MHz		
	NR UL CA_n66A-n ENDC: DC_5A-n2A, DC_1 DC_2A-n5A, DC_6 DC_12A-n25A;DC_ DC_13A-n66A, DC DC_5A-n77A, DC_ Remark:ENDC Bar	2A-n2A, DC_13 6A-n5A, DC_7A 2A-n41A, DC_ _71A-n66A;DC 12A-n77A, DC_	 3A-n2A, DC_7 [,] A-n5A;DC_2A- 12A-n41A;DC_ _2A-n71A, DC _13A-n77A, DC	n12A, DC_66A _5A-n66A, DC_ 5_66A-n71A; D0 C_66A-n77A,D0	_12A-n66A, C_2A-n77A, C_71A-n77A		
	NR Band n2	SCS 15kHz:					
	INK Danu nz	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz		
	NR Band n5	SCS 15kHz:					
	INK Ballu IIS	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz		
		SCS 15kHz:					
Supported Channel	NR Band n7	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz		
Bandwidth		⊠25 MHz	⊠30 MHz	⊠40 MHz			
	NR Band n12	SCS 15kHz:					
	INIX Dallu IIIZ	⊠5 MHz	⊠10 MHz	⊠15 MHz			
	NR Band n25	SCS 15kHz:					
	INIX Dallu 1125	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz		
	NR Band n41	SCS 30kHz:					



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		⊠20 MHz	⊠30 MHz	⊠40 MHz	⊠50 MHz
		⊠60 MHz	⊠70 MHz	⊠80 MHz	⊠90 MHz
		⊠100 MHz			
		SCS 15kHz:			
	NR Band n66	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠30 MHz	⊠40 MHz		
	,	SCS 15kHz:			
	NR Band n71	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		SCS 30kHz			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠30 MHz
	NR Band n77	⊠40 MHz	⊠50 MHz	⊠60 MHz	⊠70 MHz
		⊠80 MHz	⊠90 MHz	⊠100 MHz	
		DFT-s-Pi/2- BPSK	CP-16QAM		
	NR Band n2	SCS 15kHz:			
		4M48G7D	4M53W7D		
		8M95G7D	9M32W7D		
		13M4G7D	14M2W7D		
		17M9G7D	19M0W7D		
	NR Band n5	SCS 15kHz:			
Designation of		4M48G7D	4M51W7D		
Emissions (Remark: the necessary		8M92G7D	9M28W7D		
bandwidth of which is		13M5G7D	14M2W7D		
the worst value from		17M9G7D	18M9W7D		
the measured occupied bandwidths for each		SCS 15kHz:			
type of channel		4M47G7D	4M52W7D		
bandwidth		8M92G7D	9M30W7D		
configuration.)	NR Band n7	13M4G7D	14M2W7D		
	ING DAIIU II/	17M9G7D	19M0W7D		_
		22M9G7D	23M8W7D		
		28M6G7D	28M7W7D		
		38M5G7D	38M6W7D		
		4M49G7D	4M50W7D		
	NR Band n12	8M92G7D	9M28W7D		
		13M4G7D	14M2W7D		



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NR Band n25 SCS 15kHz: 4M49G7D 4M52W7D	
NR Band n25 8M92G7D 9M30W7D 13M5G7D 14M2W7D 17M9G7D 19M0W7D SCS 30kHz: 17M9G7D 18M3W7D	
13M5G7D 14M2W7D 17M9G7D 19M0W7D SCS 30kHz: 17M9G7D 18M3W7D	
17M9G7D 19M0W7D SCS 30kHz: 17M9G7D 18M3W7D	
SCS 30kHz: 17M9G7D 18M3W7D	
17M9G7D 18M3W7D	
26M8G7D 27M9W7D	
35M8G7D 37M9W7D	
45M8G7D 47M5W7D	
NR Band n41 58M0G7D 57M8W7D	
64M4G7D 67M4W7D	
77M1G7D 77M5W7D	
85M7G7D 87M5W7D	
96M5G7D 97M6W7D	
SCS 15kHz:	
4M48G7D 4M50W7D	
8M91G7D 9M30W7D	
NR Band n66 13M4G7D 14M1W7D	
17M9G7D 19M0W7D	
28M6G7D 28M6W7D	
38M6G7D 38M6W7D	
SCS 15kHz:	
4M47G7D 4M49W7D	
NR Band n71 8M91G7D 9M27W7D	
13M4G7D 14M1W7D	
17M9G7D 18M9W7D	
SCS 30kHz:	
8M58G7D 8M60W7D	
12M9G7D 13M6W7D	
NR Band n77 17M9G7D 18M2W7D	
(3450-3550) 26M8G7D 27M8W7D	
35M7G7D 37M9W7D	
45M8G7D 47M6W7D	
57M9G7D 57M9W7D	



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		64M5G7D	67M5W7D	
		77M1G7D	77M4W7D	
		85M6G7D	87M3W7D	
		96M4G7D	97M4W7D	
		SCS 30kHz:		
		8M62G7D	8M59W7D	
	NR Band n77 (3700-3980)	12M9G7D	13M6W7D	
		17M9G7D	18M2W7D	
		26M7G7D	27M9W7D	
		35M8G7D	37M9W7D	
		45M7G7D	47M5W7D	
		58M0G7D	57M9W7D	
		64M5G7D	67M3W7D	
		77M2G7D	77M5W7D	
		85M5G7D	87M4W7D	
		96M3G7D	97M3W7D	



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3.9 Test Frequencies

3.9.1 Reference test frequencies for NR operating by 3.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz Reference test frequencies for NR operating band n2

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

CBW [MHz]	Range	•	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	871.5	174300	
	Downlink	Mid	881.5	176300	15
5		High	891.5	178300	1
3		Low	826.5	165300	
	Uplink	Mid	836.5	167300	-
		High	846.5	169300	
		Low	874	174800	
	Downlink	Mid	881.5	176300	15
10		High	889	177800	1
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	1
15		Low	831.5	166300	
	Uplink	Mid	836.5	167300	-
		High	841.5	168300	
		Low	879	175800	
20	Downlink	Mid	881.5	176300	15
		High	884	176800	
20		Low	834	166800	
	Uplink	Mid	836.5	167300	_
		High	839	167800	



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

Bandwidth	Rang	е	Carrier centre	Carrier centre	SS block SCS
[MHz]			[MHz]	[ARFCN]	[kHz]
		Low	2622.5	524500	
	Downlink	Mid	2655	531000	15
5		High	2687.5	537500	
3		Low	2502.5	500500	
	Uplink	Mid	2535	507000	
		High	2567.5	513500	
		Low	2625	525000	
	Downlink	Mid	2655	531000	15
10		High	2685	537000	
10		Low	2505	501000	
	Uplink	Mid	2535	507000	
		High	2565	513000	
		Low	2627.5	525500	
	Downlink	Mid	2655	531000	15
15		High	2682.5	536500	
15		Low	2507.5	501500	
	Uplink	Mid	2535	507000	
	·	High	2562.5	512500	
		Low	2630	526000	
	Downlink	Mid	2655	531000	15
00		High	2680	536000	
20		Low	2510	502000	
	Uplink	Mid	2535	507000	
		High	2560	512000	
		Low	2632.5	526500	
	Downlink	Mid	2655	531000	15
05		High	2677.5	535500	
25		Low	2512.5	502500	
	Uplink	Mid	2535	507000	
		High	2557.5	511500	1
		Low	2635	52700	
	Downlink	Mid	2655	531000	15
		High	2675	535000	
30		Low	2515	503000	
	Uplink	Mid	2535	507000	
	•	High	2555	511000	1
		Low	2640	528000	
	Downlink	Mid	2655	531000	15
	Bommin	High	2670	534000	1
40		Low	2520	504000	
	I In Co. In				-
	Uplink Mid	2535	507000		
		High	2550	510000	



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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	e	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	
5		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	Uplink	Low	704	140800	
		Mid	707.5	141500	
		High	711	142200	
		Low	736.5	147300	
	Downlink	Mid	737.5	147500	15
15		High	738.5	147700	
		Low	706.5	141300	
	Uplink	Mid	707.5	141500	
		High	708.5	141700	

Reference test frequencies for NR operating band n25

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

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	1932.5	386500	
	Downlink	Mid	1962.5	392500	15
5		High	1992.5	398500	
5		Low	1852.5	370500	
	Uplink	Mid	1882.5	376500	-
		High	1912.5	382500	
		Low	1935	387000	
	Downlink	Mid	1962.5	392500	15
10		High	1990	398000	
10	Uplink	Low	1855	371000	
		Mid	1882.5	376500	-
		High	1910	382000	
	Downlink	Low	1937.5	387500	
		Mid	1962.5	392500	15
15		High	1987.5	397500	
15		Low	1857.5	371500	
	Uplink	Mid	1882.5	376500	_
		High	1907.5	381500	
		Low	1940	388000	
00	Downlink	Mid	1962.5	392500	15
		High	1985	397000	
20		Low	1860	372000	
	Uplink	Mid	1882.5	376500	-
		High	1905	381000	



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3.9.6 Reference test frequencies for NR operating band n41 3.9.6.1 Test frequencies for NR operating band n41 and SCS 30 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]	
	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	30	
50	&	Mid	2592.99	518598		
	Uplink	High	2664.99	532998		
	Downlink	Low	2526	505200		
60	&	Mid	2592.99	518598	30	
	Uplink	High	2659.98	531996		
	Downlink	Low	2536.02	507204		
70	&	Mid	2592.99	518598	30	
	Uplink	High	2649.99	529998		
	Downlink	Low	2536.02	507204		
80	&	Mid	2592.99	518598	30	
	Uplink	High	2649.99	529998		
	Downlink	Low	2541	508200		
90	&	Mid	2592.99	518598	30	
	Uplink	High	2644.98	528996		
	Downlink	Low	2546.01	509202		
100	&	Mid	2592.99	518598	30	
	Uplink	High	2640	528000		



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3.9.7 Reference test frequencies for NR operating band n66

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

5.9.7.1 Test frequencies for NR operating band not and 5C5 15 kHz								
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]			
		Low	2112.5	422500				
	Downlink	Mid	2145	429000	15			
5		High	2177.5	435500	1			
5		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	1			
		Low	2117.5	423500				
	Downlink	Mid	2145	429000	15			
45		High	2172.5	434500	1			
15	Uplink	Low	1717.5	343500				
		Mid	1745	349000	1 -			
		High	1772.5	354500				
	Downlink	Low	2120	424000				
		Mid	2145	429000	15			
00		High	2170	434000				
20		Low	1720	344000				
	Uplink	Mid	1745	349000	1 -			
	·	High	1770	354000				
		Low	2125	425000				
	Downlink	Mid	2145	429000	15			
30		High	2165	433000	1			
30		Low	1725	345000				
	Uplink	Mid	1745	349000	-			
	·	High	1765	353000				
		Low	2130	426000				
	Downlink	Mid	2145	429000	15			
46		High	2160	432000				
40		Low	1730	346000				
	Uplink	Mid	1745	349000	-			
	·	High	1760	352000				



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3.9.8 Reference test frequencies for NR operating band n71

3.9.8.1 Test frequencies for NR operating band n71 and SCS 15 kHz

CBW	Range	op or or or	Carrier centre	Carrier centre	SS block SCS
[MHz]	rungo		[MHz]	[ARFCN]	[kHz]
		Low	619.5	123900	
	Downlink	Mid	634.5	126900	15
_		High	649.5	129900	
5		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	Uplink	Low	668	133600	
		Mid	680.5	136100	-
		High	693	138600	
	Downlink	Low	624.5	124900	
		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	
20	Downlink	Mid	634.5	126900	15
		High	642	128400	
20		Low	673	134600	
	Uplink	Mid	680.5	136100	_
		High	688	137600	



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3.9.9 Reference test frequencies for NR operating band n77 3.9.9.1 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	3714.99	647666	
30	&	Mid	3840	656000	30
	Uplink	High	3965.01	664334	
	Downlink	Low	3720	648000	
40	&	Mid	3840	656000	30
	Uplink	High	3960	664000	
	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	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	
	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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4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

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

Remark: Reference test setup 1



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4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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4.3 Occupied Bandwidth

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

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

Remark: Reference test setup 1

Test Settings

- The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- 4. Detector = Peak
- Trace mode = max hold
- 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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4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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



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4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

Remark: Reference test setup 1

Test Settings

- 1. Start frequency was set to 9kHz and stop frequency was set to at least 10* the fundamental frequency(Separated into at least two plots per channel)
- 2. Detector = RMS
- 3. Trace mode = trace average for continuous emissinos, max hold for pulse emissions
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- Please see test notes below for RBW and VBW settings



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4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

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

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- Frequency = carrier center frequency
- 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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4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

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

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

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

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBm) - Level(dBm)

2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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



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4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

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

The frequency stability of the transmitter is measured by:

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

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

Time Period and Procedure:

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

Remark: Reference test setup 3





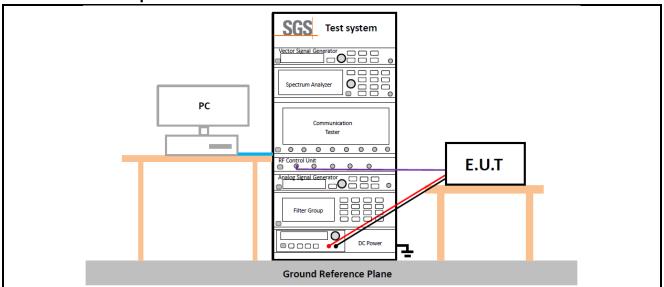
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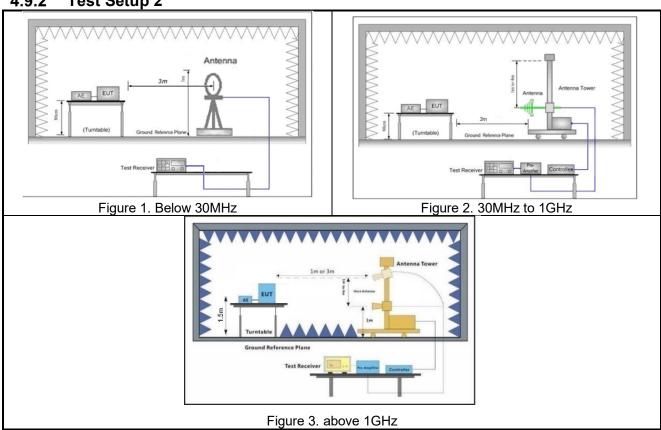
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4.9 Test Setups

Test Setup 1 4.9.1



4.9.2 **Test Setup 2**





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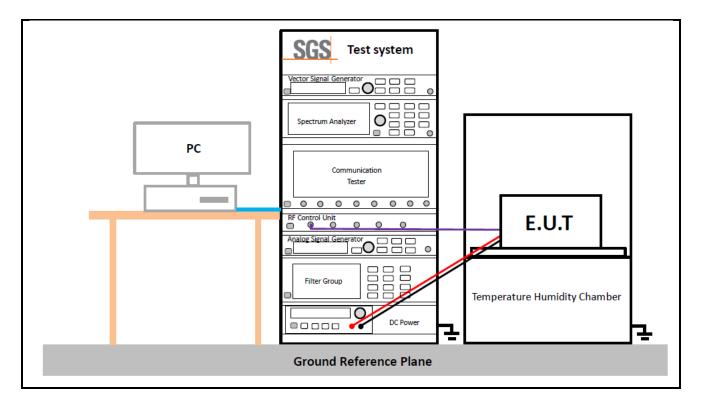


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4.9.3 Test Setup 3





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4.10 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				
	Peak-to-Average Ratio				
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/TM5; NR/TM9				
	Modulation Characteristics				
Test Case	Test Conditions				
Test Environment	Ambient Climate & Rated Voltage				
Test Setup	Test Setup 1				
RF Channels (TX)	M (M= middle channel)				
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9				
	Bandwidth - Occupied Bandwidth				
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				
	Bandwidth - Emission Bandwidth				
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				



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	Band Edges Compliance
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, H (L= low channel, H= high channel)
Test Mode	NR/TM1; NR/TM6
	Spurious Emission at Antenna Terminals
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
	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.
	Frequency Stability
Test Case	Test Conditions
Toot Environment	(1) -40 °C to +75 °C with step 10 °C at Rated Voltage
Test Environment	(2) VL, VN and VH of Rated Voltage at Ambient Climate.
Test Setup	Test Setup 3
RF Channels (TX)	M (M= middle channel)
Test Mode	NR/TM1; NR/TM6



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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	2022/11/23	2023/11/22	
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	
2	RF power density, conducted	±1.03dB	
3	Spurious emissions, conducted	±0.54dB	
4	Radio Frequency	±1.0 %	
5	Duty Cycle	±0.37%	
6	Occupied Bandwidth	±1.0 %	
7		± 3.13dB (9k -30MHz)	
	Radiated Emission	± 4.8dB (30M -1GHz)	
	Naulaleu 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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7 Appendixes

Appendix A.2	WWAN Setup Photos
Appendix B.20	NR Band n2
Appendix B.21	NR Band n5
Appendix B.22	NR Band n7
Appendix B.23	NR Band n12
Appendix B.24	NR Band n25
Appendix B.25	NR Band n41
Appendix B.26	NR Band n66
Appendix B.27	NR Band n71
Appendix B.28	NR Band n77(3450-3550)
Appendix B.29	NR Band n77(3700-3980)

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