

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900349302

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TEST REPORT

Application No: SZCR2409003493WM

Applicant: Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, **Address of Applicant:**

Beijing, China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'ergi Middle Road, Haidian District, Address of Manufacturer:

Beijing, China, 100085

EUT Description: Mobile Phone 24117RK2CG Model No.:

Trade Mark: POCO

FCC ID: 2AFZZRK2CG Standards: 47 CFR Part 2 47 CFR Part 22

47 CFR Part 24 47 CFR Part 27 47 CFR Part 90 47 CFR Part 96

Date of Receipt: 2024/09/10

Date of Test: 2024/09/18 to 2024/10/31

Date of Issue: 2024/10/31

Test Result: PASS *

Keny Xu **EMC** 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	Chapter	Date	Modifier	Remark	
01		2024/10/31		Original	

Authorized for issue by:		
	Levin lan	
	Kevin Lan/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	-



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2 Test Summary

2.1 NR Band n5/ NR Band n26(824-849MHz)

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		Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		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.	Appendix B.20&B.23	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	±2.5ppm.		Pass



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2.2 NR Band n7/NR Band n38 /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		Pass
Peak-Average Ratio		≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(m)(4)	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.	Appendix B.21&B.24&B.25	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10 harmonics X=Max {6MHz, EBW}		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.		Pass



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2.3 NR Band n2

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W		Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	1	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix B.19	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.		Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §24.235	Within authorized bands of operation/frequency block.		Pass



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2.4 NR Band n26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.		Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Emission Mask	§2.1051 § 90.691(a)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.	Appendix B.22	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of- band emissions		Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of- band emissions		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	Within authorized bands of operation/frequency block.		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≤1W		Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix B.27	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.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.		Pass



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2.6 NR Band n48

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm		Pass
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.	Appendix B.26	Pass
Field Strength of Spurious Radiation	§2.1053, §96.41	for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of	-	Pass



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Frequency	§2.1055,	-40dBm/MHz. Within authorized bands of	
		the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed	



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2.7 NR Band n77/ NR Band n78

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	-	Pass
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		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.	Appendix B.28&B.31	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.		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.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/ frequency block.		Pass



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3700-3980MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W		Pass
Peak-Average Ratio		≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		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 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.	Appendix B.29&B.30	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.		Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §27.54	Within authorized bands of operation/frequency block.		Pass



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General Information

4.1 General Description of EUT

EUT Description:	EUT Description: Mobile Phone					
Model No.:	24117RK2CG					
Trade Mark:	POCO					
Hardware Version:	135100O11					
Software Version:	Xiaomi HyperOS 2.0					
Power Supply:	3.91V from internal	rechai	rgeable battery which can be	e charged by adapter.		
IMEI:	RF Conducted		IMEI1:866966070029322 IMEI2:866966070029330			
IIVIEI.	RSE		IMEI1:866966070036145 IMEI2:866966070036152			
HPUE Power Class:	Class 2: n41; n77; r	n78				
Antenna Type:	PIFA Antenna					
	NR Band n2:	-2dBi(Ant3); -2.3dBi(Ant5);				
	NR Band n5:	-4.1dBi(Ant0); -4.2dBi(Ant1);				
	NR Band n7:	-1.8dBi(Ant2); -1dBi(Ant3); -1.2dBi(Ant5);				
	NR Band n26:	-4.1dBi(Ant0); -4.2dBi(Ant1);				
	NR Band n38:	-1.8dBi(Ant2); -1dBi(Ant3); -3dBi(Ant4); -1.2dBi(Ant5);				
	NR Band n41:	-1.8dBi(Ant2); -1dBi(Ant3); -2.8dBi(Ant4); -1.2dBi(Ant5);				
Antenna Gain:	NR Band n48:	-3.4dBi(Ant1); -2.5dBi(Ant6); -2.7dBi(Ant7); -2.5dBi(Ant8);				
	NR Band n66:	-1.5dBi(Ant2); -2.3dBi(Ant3); -1dBi(Ant5);				
	NR Band n77:	-3.4d	Bi(Ant1); -2.5dBi(Ant6); -2.7	'dBi(Ant7); -2.5dBi(Ant8);		
	NR Band n78:	-3.4d	Bi(Ant1); -2.5dBi(Ant6); -2.7	⁷ dBi(Ant7); -2.5dBi(Ant8);		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					
	⊠Provided by clier	nt				
DE O.U.	9kHz ~ 30MHz (0.2dB)	Z	30MHz ~ 1000MHz (0.6dB)	1000MHz ~ 2000MHz (0.7dB)		
RF Cable:	2000MHz ~ 4000I (0.9dB)	MHz	4000MHz ~ 6000MHz (2dB)	6000MHz ~ 12750MHz (2.5dB)		
	Above 12750MHz(3	BdB)	. ,	, ,		
Note: 1. Conduction Power & EI	· · ·					



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4.2 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.		

4.3 Test Environment

Environment Paramete	er	101 kPa Select	101 kPa Selected Values During Tests		
Relative Humidity		28-46 % RH Ambient			
Value		Temperature(°C)	Voltage(V)		
NTNV		22~26	3.91		
LTLV		-30	3.6		
LTHV		-30	4.3		
HTLV		50	3.6		
HTHV		50	4.3		
Remark:					
NV: Normal Voltage LV: Low		Extreme Test Voltage	HV: High Extreme Test Voltage		
NT: Normal Temperature	LT: Low	Extreme Test Temperature	HT: High Extreme Test Temperature		

4.4 Description of Support Units

The EUT has been tested as an independent unit.



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4.5 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	±0.41dB		
2	RF power density, conducted	±1.96dB		
3	Spurious emissions, conducted	±0.41dB		
4	Radio Frequency	±7.10 x 10 ⁻⁸		
5	Duty Cycle	±0.49%		
6	Occupied Bandwidth	±0.2%		
		±4.8dB (30MHz-1GHz)		
7	Dedicted Churique emission toet/LIE)	±4.68dB (1GHz-6GHz)		
'	Radiated Spurious emission test(UE)	±4.52dB (6GHz-18GHz)		
		±5.26dB (18GHz-40GHz)		

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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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Fax: +86 755 2671 0594 Tel: +86 755 2601 2053

No tests were sub-contracted.

4.7 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

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

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

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.





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4.8 Technical Specification

Characteristics	Description	Description						
Radio System Type	⊠ SA ⊠ NSA							
	Band	TX		RX				
	NR Band n2	1850 to 1910	MHz	1930 to 1990 MHz				
	NR Band n5	824 to 849 N	ЛНz	869 to 894 M	lHz			
	NR Band n7	2500 to 2570	MHz	2620 to 2690	MHz			
	NR Band n26 (814 to 824 MHz)	814 to 824MF	łz	859 to 869 M	394 MHz 2690 MHz 369 MHz 394 MHz 2620 MHz 2690 MHz 3700 MHz 2180 MHz 3980 MHz 3550 MHz 3550 MHz 3550 MHz 3650 MHz 3650 MHz 3650 MHz 3700 MHz 3700 MHz 3700 MHz 3700 MHz 3980 MHz 400 MHz			
	NR Band n26 (824 to 849 MHz)	824 to 849 M	Hz	869 to 894 M				
	NR Band n38	2570 to 2620	MHz	2570 to 2620				
Supported Frequency	NR Band n41	2496 to 2690	MHz	2496 to 2690				
Range	NR Band n48	3550 to 3700	MHz	3550 to 3700				
	NR Band n66	1710 to 1780	MHz	2110 to 2180				
	NR Band n77*	3700 to 3980	MHz	3700 to 3980				
	NIC Ballu III I	3450 to 3550 MHz		3450 to 3550 MHz				
	NR Band n78*	3700 to 3800	MHz	3700 to 3800	MHz			
	INK Ballu 1176	3450 to 3550	MHz	3450 to 3550				
	Note*: Both NR Band n77 and NR Band n78 have the same frequency range 3450 MHz to 3550 MHz, and NR Band n78 was fully tested, NR Band n77 only test the items of RSE.							
		SCS 15kHz:						
	NR Band n2	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz			
		⊠25 MHz	⊠30 MHz	⊠35 MHz	MHz MHz MHz MHz MHz MHz MHz MHz			
	ND Dond of	SCS 15kHz:						
	NR Band n5	⊠5 MHz	⊠10 MHz	⊠15 MHz				
Supported Channel		SCS 15kHz:						
Bandwidth	NR Band n7	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz			
		⊠25 MHz	⊠30 MHz	⊠35 MHz	⊠40 MHz			
	NR Band	SCS 15kHz:						
	n26(814-824)	⊠5 MHz	⊠10 MHz					
	NR Band	SCS 15kHz:						
	n26(824-849)	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz			



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	SCS 30kHz:			
R Band n38	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
	⊠30 MHz	⊠40 MHz		
	SCS 30kHz:			
D D = = d = 44	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
R Band n41	⊠30 MHz	310 MHz □ 15 MHz □ 20 MHz 330 MHz □ 40 MHz □ 50 MHz 370 MHz □ 80 MHz □ 90 MHz CS 30kHz: □ 15 MHz □ 20 MHz 340 MHz □ 15 MHz □ 15 MHz □ 5 MHz □ 10 MHz □ 15 MHz □ 25 MHz □ 30 MHz □ 35 MHz □ CS 30kHz □ 15 MHz □ 20 MHz	⊠60 MHz	
	⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
	SCS 30kHz:			
R Band n48	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠30 MHz
	⊠40 MHz			
NR Band n66	SCS 15kHz:			
	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	⊠25 MHz	⊠30 MHz	⊠35 MHz	⊠40 MHz
	SCS 30kHz			
ND D 1 77	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
R Band n//	⊠30 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
	⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
	SCS 30kHz:			
D D = = d = 70	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
K Band n/8	⊠30 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
	⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
	R Band n41	R Band n38	R Band n38	R Band n38



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4.9 Test Frequencies

4.9.1 Reference test frequencies for NR operating band n2

4.9.1.1 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
_		High	1987.5	397500	[kHz]
5		Low	1852.5	370500	
	Uplink	Mid	1880	376000	-
		High	1907.5	381500	
		Low	1935	387000	
	Downlink	Mid	1960	392000	15
40		High	1985	397000	
10		Low	1855	371000	
	Uplink	Mid	1880	376000	-
		High	1905	381000	
		Low	1937.5	387500	
	Downlink	Mid	1960	392000	- 15 - 15 - 15 - 15 - 15
15		High	1982.5	396500	
15		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	
		Low	1942.5	388500	
	Downlink	Mid	1960	392000	15
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	15
30		High	1975	395000	
30	<u> </u>	Low	1865	373000	
	Uplink	Mid	1880	376000	-
		High	1895	379000	



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		Low	1947.5	389500	
	Downlink	Mid	1960	392000	15
25		High	1972.5	394500	15 - 15 - 15
35		Low	1867.5	373500	
	Uplink	Mid	1880	376000	-
		High	1892.5	378500	
		Low	1950	390000	
	Downlink	Mid	1960	392000	- 15
40		High	1970	394000	
40		Low	1870	374000	
	Uplink	Mid	1880	376000	-
		High	1890	378000	



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4.9.2 Reference test frequencies for NR operating band n5

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

4.3.2.1 Test frequencies for the operating band 13 and 303 13 kHz							
CBW	Range		Carrier centre	Carrier centre			
[MHz]			[MHz]	[ARFCN]	[KHZ]		
		Low	871.5	174300			
	Downlink	Mid	881.5	176300	SS block SCS [kHz] 15 - 15 - 15 - 15 - 15		
5		High	891.5	178300			
5		Low	826.5	165300			
	Uplink	Mid	836.5	167300	-		
		High	846.5	169300			
		Low	874	174800			
	Downlink	Mid	881.5	176300	[kHz] 15 - 15 - 15 - 15 - 15		
10		High	889	177800			
10		Low	829	165800			
	Uplink	Mid	836.5	167300			
		High	844	168800			
		Low	876.5	175300			
	Downlink	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	15		
20		Low	834	166800			
	Uplink	Mid	836.5	167300	15		
	•	High	839	167800			



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4.9.3 Reference test frequencies for NR operating band n7

4.9.3.1 Test frequencies for NR operating band n7 and SCS 15 kHz

4.9.3.1 Tes	st trequencies for Rang		Carrier centre	Carrier centre	SS block SCS
[MHz]	Kang	е	[MHz]	[ARFCN]	[kHz]
		Low	2622.5	524500	
	Downlink	Mid	2655	531000	15
5		High	2687.5	537500	
5	Uplink	Low	2502.5	500500	
		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
4.5		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
		High	2680	536000	
20		Low	2510	502000	
	Uplink	Mid	2535	507000	
		High	2560	512000	<u>-</u>
		Low	2632.5	526500	
	Downlink	Mid	2655	531000	15
		High	2677.5	535500	
25		Low	2512.5	502500	
	Uplink	Mid	2535	507000	
		High	2557.5	511500	
		Low	2635	527000	
	Downlink	Mid	2655	531000	15
		High	2675	535000	
30		Low	2515	503000	
	Uplink	Mid	2535	507000	
	'	High	2555	511000	1
		Low	2637.5	527500	
	Downlink	Mid	2655	531000	15
0.5		High	2672.5	534500	
35		Low	2517.5	503500	
	Uplink	Mid	2535	507000	
	'	High	2552.5	510500	1
		Low	2640	528000	
	Downlink	Mid	2655	531000	15
	20	High	2670	534000	1
40			2520	504000	
	المثلول	Low			-
	Uplink	Mid	2535	507000	
		High	2550	510000	



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4.9.4 Reference test frequencies for NR operating band n26

4.9.4.1 Test frequencies for NR operating band n26 and SCS 15 kHz

814-824:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]	
		Low	861.5	172300		
	Downlink	Mid	864	172800		
_		High	866.5	173300		1
5		Low	816.5	163300		
	Uplink	Mid	819	163800	-	
	·	High	821.5	164300]	
		Low	/	/		
	Downlink	Mid	864	172800	[kHz] 15 - - 15	
40		High	/	/		
10		Low	/	/		
	Uplink	Mid	819	163800		
		High	/	1	1	

824-849

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	
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	
10		Low	829	165800	
	Uplink	Mid	836.5	167300	-
		High	844	168800	
		Low	876.5	175300	
	Downlink	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	7



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4.9.5 Reference test frequencies for NR operating band n38

4.9.5.1 Test frequencies for NR operating band n38 and SCS 30 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	2575	515000	
10	&	Mid	2595	519000	30
	Uplink	High	2615	523000	
	Downlink	Low	2577.5	515500	
15	&	Mid	2595	519000	30
	Uplink	High	2612.5	522500	
	Downlink	Low	2580	516000	
20	&	Mid	2595	519000	30
	Uplink	High	2610	522000	
	Downlink	Low	2582.5	516500	
25	&	Mid	2595	519000	30
	Uplink	High	2607.5	521500	
	Downlink	Low	2585	517000	
30	&	Mid	2595	519000	30
	Uplink	High	2605	521000	
	Downlink	Low	2590	518000	
40	&	Mid	2595	519000	30
	Uplink	High	2600	520000	



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4.9.6 Reference test frequencies for NR operating band n41

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

4.9.6.1 Test frequencies for NR operating band fi41 and 5C5 30 kHz								
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				
	Downlink	Low	2503.5	500700				
15	&	Mid	2592.99	518598	30			
	Uplink	High	2682.48	536496				
	Downlink	Low	2506.02	501204				
20	&	Mid	2592.99	518598	30			
	Uplink	High	2670	534000				
	Downlink	Low	2508.51	501702				
25	&	Mid	2592.99	518598	30			
	Uplink	High	2677.5	535500				
	Downlink	Low	2511	502200				
30	&	Mid	2592.99	518598	30			
	Uplink	High	2675	535000				
	Downlink	Low	2516.01	503202				
40	&	Mid	2592.99	518598	30			
	Uplink	High	2670	534000				
	Downlink	Low	2521.02	504204				
50	&	Mid	2592.99	518598	30			
	Uplink	High	2664.99	532998				
	Downlink	Low	2526	505200				
60	&	Mid	2592.99	518598	30			
	Uplink	High	2659.98	531996				
	Downlink	Low	2531	506200				
70	&	Mid	2592.29	518598	30			
	Uplink	High	2655	531000				
	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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4.9.7 Reference test frequencies for NR operating band n48

4.9.7.1 Test frequencies for NR operating band n48 and SCS 30 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3555	637000	
10	&	Mid	3624.99	641666	30
	Uplink	High	3694.98	646332	
	Downlink	Low	3557.52	637168	
15	&	Mid	3624.99	641666	30
	Uplink	High	3692.49	646166	
	Downlink	Low	3560.01	637334	
20	&	Mid	3624.99	641666	30
	Uplink	High	3690	646000	
	Downlink	Low	3565.02	637668	
30	&	Mid	3624.99	641666	30
	Uplink	High	3684.99	645666	
	Downlink	Low	3570	638000	
40	&	Mid	3624.99	641666	30
	Uplink	High	3679.98	645332	



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4.9.8 Reference test frequencies for NR operating band n66

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

	trequencies for NR	operating b			CC block CCC
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	
		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	<u>-</u>
		High	1775	355000	
		Low	2117.5	423500	
	Downlink	Mid	2145	429000	15
15		High	2172.5	434500	
13		Low	1717.5	343500	
	Uplink	Mid	1745	349000	
		High	1772.5	354500	
		Low	2120	424000	
	Downlink	Mid	2145	429000	15
20		High	2170	434000	
20		Low	1720	344000	
	Uplink	Mid	1745	349000	-
		High	1770	354000	
		Low	2122.5	424500	
	Downlink	Mid	2145	429000	15
25		High	2167.5	433500	
25		Low	1722.5	344500	
	Uplink	Mid	1745	349000	-
		High	1767.5	353500	
		Low	2125	425000	
	Downlink	Mid	2145	429000	15
30		High	2165	433000	
30		Low	1725	345000	
	Uplink	Mid	1745	349000	-
		High	1765	353000	
		Low	2127.5	425500	
	Downlink	Mid	2145	429000	15
35		High	2162.5	432500	
33		Low	1727.5	345500	
	Uplink	Mid	1745	349000	
		High	1762.5	352500	
		Low	2130	426000	
	Downlink	Mid	2145	429000	15
4.5		High	2160	432000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	1 -
	Opinik	High	1760	352000	=
		riigii	1700	332000	



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4.9.9 Reference test frequencies for NR operating band n77 4.9.9.1 Test frequencies for NR operating band n77 and SCS 30 kHz

3700-3980:

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	3712.515	647501		
25	&	Mid	3840	656000	30	
	Uplink	High	3967.485	664499		
	Downlink	Low	3714.99	647666		
30	&	Mid	3840	656000	30	
	Uplink	High	3965.01	664334	1	
	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	1	
	Downlink	Low	3730.02	648668		
60	&	Mid	3840	656000	30	
	Uplink	High	3949.98	663332	1	
	Downlink	Low	3735	649000		
70	&	Mid	3840	656000	30	
	Uplink	High	3945	663000	1	
	Downlink	Low	3740.01	649334		
80	&	Mid	3840	656000	30	
	Uplink	High	3939.99	662666	1	
	Downlink	Low	3745.02	649668		
90	&	Mid	3840	656000	30	
	Uplink	High	3934.98	662332	1	
	Downlink	Low	3750	650000		
100	& &	Mid	3840	656000	30	
	Uplink	High	3930	662000	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	
	Downlink	Low	3495	633000	
90	&	Mid	3500.01	633334	30
	Uplink	High	3504.99	633666	7
	Downlink	Low	\	\	
100	&	Mid	3500.01	633334	30
	Uplink	High	\	\	1



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4.9.10 Reference test frequencies for NR operating band n78 4.9.10.1 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	3750	650000	30
	Uplink	High	3787.5	652500	
	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	
	Downlink	Low	3745.02	649668	
90	&	Mid	3750	650000	30
	Uplink	High	3754.98	650332	1
	Downlink	Low	/	/	
100	&	Mid	3750	650000	30
	Uplink	High	/	/	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	3462.52	630835	
25	&	Mid	3500.01	633334	30
	Uplink	High	3537.50	635833	
	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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5 **Equipment List**

RF conducted test									
Test Equipment	quipment Manufacturer		Inventory No.	Cal. Date	Cal. Due date				
Humidity/ Temperature Indicator	Deli	8838	SEM002-40	2024/07/24	2025/07/23				
MXA Signal Analyzer(10Hz- 50GHz)	Keysight Technologies	N9020B	SEM004-24	2024/03/14	2025/03/13				
Keysight PXA Signal Analyzer(2Hz-50GHz)	Keysight Technologies	N9030B	SEM004-30	2024/09/04	2025/09/03				
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SEM010-14	2024/03/14	2025/03/13				
Radio Communication Analyzer	Anristu	MT8821C	SEM010-09	2024/03/14	2025/03/13				
Radio Communication Test Station	Anristu	MT8000A	SEM010-10	2024/03/14	2025/03/13				
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SZ-WRG-M- 017	2023/12/21	2024/12/20				
DC power supply	HYELEC	HY3005B	SZ-WRG-M- 044	2024/08/21	2025/08/20				
Test Software	TST PASS	TST PASS V2.0	N/A	NCR	NCR				



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Radiated spurious emissions									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
EMI TEST RECEIVER	Rohde & Schwarz	ESR	SZ-WRG-M-047	2024/01/30	2025/01/29				
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024/01/30	2025/01/29				
Low Noise Amplifier 9K-3GHz	Tonscend	TAP9K3G32	SEM005-23	2024/03/05	2025/03/04				
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024/01/30	2025/01/29				
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024/01/30	2025/01/29				
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024/01/30	2025/01/29				
Active Loop Antenna 9kHz- 30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2024/12/24				
TRILOG Breitband Antenne 30MHz- 1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2024/12/24				
Double Ridge Horn Antenna 1GHz- 18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2024/12/20				
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2024/12/24				
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-S-058	NCR	NCR				
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-S-059	NCR	NCR				
Measurement Software	AUDIX	e3 V8.2014-6- 27	NCR	NCR	NCR				
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022/01/05	2025/01/04				
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2024/07/24	2025/07/23				
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2024/08/17	2025/08/16				
Radio Communication Tester	Anristu	MT8821C	SEM010-09	2024/03/14	2025/03/13				

Remark: NCR=No Calibration Requirement.



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

Remark: NCR=No Calibration Requirement.



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6 **Description of Tests**

6.1 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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6.2 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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6.3 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

- 1. 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.
- RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. 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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6.4 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
- 5. Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize



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6.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

Remark: Reference test setup 1

Test Settings

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



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6.6 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
- 2. Frequency = carrier center frequency
- Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 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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6.7 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 (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dBμV/m) + 20 log D - 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dBμV/m) + 20 log D - 104.8; where D is the measurement distance in meters

- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

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

Remark: Reference test setup 2

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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

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



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6.8 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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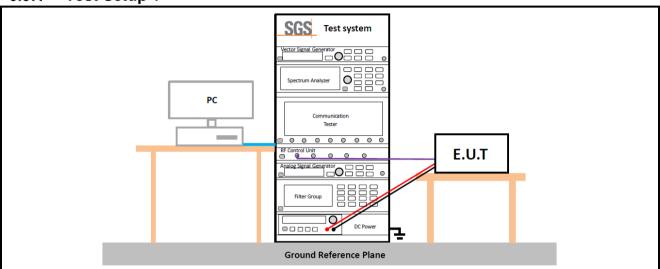
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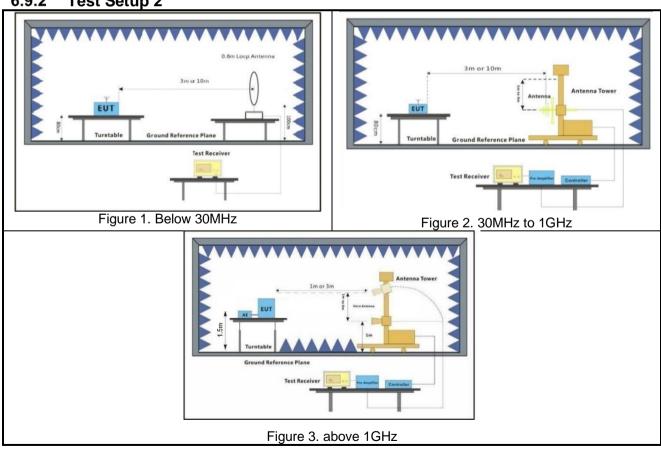
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6.9 Test Setups

6.9.1 **Test Setup 1**



6.9.2 **Test Setup 2**





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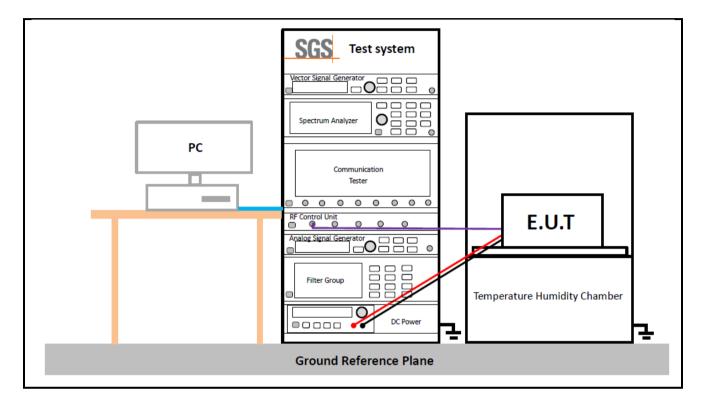
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6.9.3 Test Setup 3





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6.10Test 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	
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/TM1; NR/TM6	
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	
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)	



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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: All bandwidth and modulation of NR have been pre tested, and only the worst results are reflected in the report.	
Frequency Stability		
Test Case	Test Conditions	
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage (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	
	The report only show the bandwidth with the worst case.	



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7 Appendixes

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Appendix B.20	NR Band n5
Appendix B.21	NR Band n7
Appendix B.22	NR Band n26(814-824)
Appendix B.23	NR Band n26(824-849)
Appendix B.24	NR Band n38
Appendix B.25	NR Band n41
Appendix B.26	NR Band n48
Appendix B.27	NR Band n66
Appendix B.28	NR Band n77(3700-3980)
Appendix B.29	NR Band n78(3450-3550)
Appendix B.30	NR Band n78(3700-3800)
Appendix B.31	NR Band n77(3450-3550)

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