

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR241100409202

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TEST REPORT

Application No: SZCR2411004092IT

Applicant: Shenzhen Tinno Mobile Technology Corp.

27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South **Address of Applicant:**

Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, China

Shenzhen Tinno Mobile Technology Corp. Manufacturer:

27-001, South Side of Tianlong Mobile Headquarters Building, Tongfa South Address of Manufacturer:

Road, Xili Community, Xili Street, Nanshan District, Shenzhen, Guangdong, China

EUT Description: Tablet T715DS Model No.:

FCC ID: XD6T715DS 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: 2024/12/02

Date of Test: 2024/12/03 to 2025/01/10

Date of Issue: 2025/01/23

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		2025/01/23		Original

Authorized for issue by:		
	Dorjar. In ang	
	Donjon Huang/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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2 Test Summary

2.1 NR Band n5

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	FCC: ERP ≤ 7 W		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	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 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.23	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz 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 9 kHz 4 MHz 10th 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/ 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		Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Appendix B.19&B.21	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 n30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP ≤ 50mW/1MHz EIRP ≤ 250mW/5MHz		Pass
Peak-Average Ratio		FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(a)(4)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2341 and 2324 MHz and on all frequencies between 2324 and 2328 MHz and on all frequencies between 2324 and 2328 MHz and on all frequencies between 2324 and 2328 MHz and on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz; (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2300 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 +	Appendix B.22	Pass



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		10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.	
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	≤ -40dBm/MHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the range of the operating frequency blocks	Pass



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2.5 NR Band n66/ NR Band n70

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.25&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.		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 n71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W		Pass
Peak-Average Ratio		Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])	Appendix B.27	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])	Аррениіх в.27	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.		Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the authorized bands of operation.		Pass



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2.7 NR Band n77

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	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.	Б.20	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	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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2.8 NR Band n48

3550-3700MHz:

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.24	Pass
Field Strength of	§2.1053,	for channel and frequency		Pass



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Spurious Radiation	§96.41	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.	
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	Pass
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.	Pass



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General Information

4.1 General Description of EUT

EUT Description:	Tablet					
Model No.:	T715DS					
Hardware Version:	V1.0					
Software Version:	T715DSV01.05.10)				
Power Supply:	DC 3.85V from int adapter	ernal re	ech	argeable battery which can l	oe charge by AC/DC	
INAS.	RF Conducted	-		:IMEI1:863287070006662 :IMEI1:863287070031116		
IMEI:	RSE			:IMEI1:863287070007819 :IMEI1:863287070031330		
HPUE Power Class:	Class 2: NR Band	n41; N	RI	Band n77		
Antenna Type:	☐ External, ⊠ I	ntegrat	ed			
NR Band n2: 0.1dBi(Ant2); -0.3dBi(Ant2);				IBi(Ant2); -0.3dBi(Ant6)		
	NR Band n5:		0.3dBi(Ant2);			
	NR Band n25:	0	0.1dBi(Ant2);			
	NR Band n30:		0.0dBi(Ant1);			
	NR Band n41:		1.2dBi(Ant1); 0.5dBi(Ant5); -6.5dBi(Ant6); 0.7dBi(Ant7)			
	NR Band n48:		1.9dBi(Ant3);			
Antenna Gain:	NR Band n66:	0	0.6dBi(Ant2); 1.3dBi(Ant6)			
	NR Band n70:	1	1.8dBi(Ant2);			
	NR Band n71:		-1.2dBi(Ant2);			
	NR Band n77:		-1.8dBi(Ant1); 1.1dBi(Ant5); 2.0dBi(Ant6); 1.2dBi(Ant7)			
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.					
	9kHz ~ 30Ml (0.3dB)	Hz		30MHz ~ 1000MHz (0.6dB)	1000MHz ~ 2000MHz (0.8dB)	
RF Cable:	2000MHz ~ 4000MHz (1.1dB)			4000MHz ~ 6000MHz (1.8dB)	6000MHz ~ 12750MHz (2.6dB)	
	Above 12750MHz	(3.5dB))			
Domark:						

Remark:

- 1. Conduction Power & EIRP of all antennas are tested, and only the worst data is presented
- 2.As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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EUT1	1nd			
EUT2	add 2nd source			
Note: For detailed instru	Note: For detailed instructions, see the Difference Statement.			

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/TM9 NR system, CP-256QAM modulation			
Remark: The test mode(s) are selected according to relevant radio technology specifications.			

4.3 Test Environment

Environment Parameter	101 kPa Selecte	101 kPa Selected Values During Tests				
Relative Humidity	44-46 % RH Ambient					
Value	Temperature(°C) Voltage(V)					
NTNV	22~25	3.85				
LTLV	-30	3.4				
LTHV	-30	4.4				
HTLV	50	3.4				
HTHV	50	4.4				

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	Radio Frequency	± 9.84Hz
2	Duty cycle	± 0.185%
3	Occupied Bandwidth	± 0.20%
4	RF conducted power	± 0.42dB
5	RF power density	± 1.97dB
6	Conducted Spurious emissions	± 0.42dB
		±4.8dB (30MHz-1GHz)
7	Dodieted Emissies	±4.68dB (1GHz-6GHz)
1	Radiated Emission	±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.

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

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					
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	1Hz	
	NR Band n25	1850 to 1915	MHz	1930 to 1995	5 MHz	
	NR Band n30	2305 to 2315	MHz	2350 to 2360) MHz	
	NR Band n41	2496 to 2690	MHz	2496 to 2690) MHz	
	NR Band n48	3550 to 3700	MHz	3550 to 3700) MHz	
	NR Band n66	1710 to 1780	MHz	2110 to 2200) MHz	
	NR Band n70	1695 to 1710	MHz	1995 to 2020) MHz	
Supported Frequency	NR Band n71	663 to 698 M	Hz	617 to 652 M	1Hz	
Range	NR Band n77*	3700 to 3980	MHz	3700 to 3980) MHz	
	INK Band III I	3450 to 3550	MHz	3450 to 3550) MHz	
	DC_30A_n66A,DC_DC_66A_n66A,DC_DC_30A_n77A,DC_DC_66A_n71A,DC_Remark: ENDC onload Note*: Both NR Band n77 MHz to 3550 MHz, the items of Power.	_2A_n2A,DC_2 _12A_n77A,DC _2A_n71A,DC_ y test RSE, rep and NR Band r and NR Band r	A_n77A,DC_5 14A_n77A,D 2A_n41A,DC_ ort only show was 178 have the sa	A_n77A,DC_6 C_14A_n66A,E 66A_n41A, worst mode.	6A_n77A, DC_14A_n2A, range 3450	
	the name of Fewers	SCS 15kHz:				
	NR Band n2	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		 ⊠25 MHz	 ⊠30 MHz	— ⊠40 MHz		
		SCS 15kHz:				
Supported Channel	NR Band n5	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
Bandwidth		⊠25 MHz				
		SCS 15kHz:				
	NR Band n25	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		⊠25 MHz	⊠30 MHz	⊠40 MHz		
	NR Band n30	SCS 30kHz:				



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		⊠5 MHz	⊠10 MHz;		
		SCS 30kHz:			
	NID Dec. 1 . 44	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
	NR Band n41	⊠30 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
		⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz
		SCS 30kHz:			
	NR Band n48	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠30 MHz
	INK Danu 1140	⊠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
		⊠25 MHz	⊠30 MHz	⊠40 MHz	
	NR Band n70	SCS 15kHz:			
		⊠5 MHz	⊠10 MHz	⊠15 MHz	□20 MHz
		□25 MHz			
		SCS 15kHz			
	NR Band n71	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠25 MHz	⊠30 MHz		
		SCS 30kHz:			
	NR Band n77	⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠25 MHz
	INK DANU N/	⊠30 MHz	⊠40 MHz	⊠50 MHz	⊠60 MHz
		⊠70 MHz	⊠80 MHz	⊠90 MHz	⊠100 MHz



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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	Range	Range Carrier centre		Carrier centre	SS block SCS
[MHz]	, and the second se		[MHz]	[ARFCN]	[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	
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		Low	1865	373000	_
	Uplink	Mid	1880	376000	
		High	1895	379000	
		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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Reference test frequencies for NR operating band n5

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

Bandwidth [MHz]	Range		Carrier centre [MHz]	[MHz] [ARFCN]		
		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		
		Low	881.5	176300		
	Downlink	Mid	/	/	15	
25	-	High	/	/		
25		Low	834	166800		
	Uplink	Mid	/	/	-	
		High	/			



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4.9.3 Reference test frequencies for NR operating band n25

4.9.3.1 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
_		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		Low	1855	371000	
	Uplink	Mid	1882.5	376500	-
		High	1910	382000	
		Low	1937.5	387500	
	Downlink	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	
	Downlink 20	Mid	1962.5	392500	15
20		High	1985	397000	
20		Low	1860	372000	
	Uplink	Mid	1882.5	376500	1 -
		High	1905	381000	
		Low	1942.5	388500	
	Downlink	Mid	1962.5	392500	15
25		High	1982.5	396500	
20		Low	1862.5	372500	
	Uplink	Mid	1882.5	376500	-
		High	1902.5	380500	
		Low	1945	389000	
	Downlink	Mid	1962.5	392500	15
30		High	1980	396000	
30		Low	1865	373000	
	Uplink	Mid	1882.5	376500	-
		High	1900	380000	
		Low	1950	390000	
	Downlink	Mid	1962.5	392500	15
		High	1975	395000	
40		Low	1870	374000	
	Uplink	Mid	1882.5	376500	1 _
	Opinik	High	1895	379000	1



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4.9.4 Reference test frequencies for NR operating band n30

4.9.4.1 Test frequencies for NR operating band n30 and SCS 15 kHz

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



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4.9.5 Reference test frequencies for NR operating band n41

4.9.5.1 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	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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4.9.6 Reference test frequencies for NR operating band n48

4.9.6.1 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	1



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Reference test frequencies for NR operating band n66

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

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	2112.5	422500	
	Downlink	Mid	2155	431000	15
_		High	2197.5	439500	1
5		Low	1712.5	342500	
	Uplink	Mid	1745	349000	-
	·	High	1777.5	355500	
		Low	2115	423000	
	Downlink	Mid	2155	431000	15
10		High	2195	439000	
10		Low	1715	343000	
	Uplink	Mid	1745	349000	-
		High	1775	355000	
		Low	2117.5	423500	
	Downlink	Mid	2155	431000	15
15		High	2192.5	438500	
15		Low	1717.5	343500	
	Uplink	Mid	1745	349000	-
		High	1772.5	354500	
	Downlink	Low	2120	424000	
		Mid	2155	431000	15
20		High	2190	438000	
20	Uplink	Low	1720	344000	
		Mid	1745	349000	-
		High	1770	354000	
		Low	2122.5	424500	
	Downlink	Mid	2155	431000	15
25		High	2187.5	437500	
23		Low	1722.5	344500	
	Uplink	Mid	1745	349000	-
		High	1767.5	353500	
		Low	2125	425000	
	Downlink	Mid	2155	431000	15
30		High	2185	437000	
30		Low	1725	345000	
	Uplink	Mid	1745	349000	-
		High	1765	353000	
		Low	2130	426000	
	Downlink	Mid	2155	431000	15
40		High	2180	436000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	1 -
	Оршік	High	1760	352000	┪ -



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Reference test frequencies for NR operating band n70

4.9.8.1 Test frequencies for NR operating band n70 and SCS 15 kHz

Bandwidth [MHz]	Range	<u>. </u>	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	1997.5	399500	
	Downlink	Mid	2002.5	400500	15
5		High	2007.5	401500	
5		Low	1697.5	339500	
	Uplink	Mid	1702.5	340500	
		High	1707.7	341500	
		Low	2000	400000	
	Downlink	Mid	2002.5	400500	15
10		High	2005	401000	
10		Low	1700	340000	
	Uplink	Mid	1702.5	340500	
		High	1705	341000	
		Low	/	/	
	Downlink	Mid	2002.5	400500	15
45		High	/	/	
15		Low	/	1	
	Uplink	Mid	1702.5	340500	
		High	/	1	



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4.9.9 Reference test frequencies for NR operating band n71

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

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	619.5	123900	
	Downlink	Mid	634.5	126900	15
5		High	649.5	129900	
3		Low	665.5	133100	
	Uplink	Mid	680.5	136100	-
		High	695.5	139100	
		Low	622	124400	
	Downlink	Mid	634.5	126900	15
10		High	647	129400	
10		Low	668	133600	
	Uplink	Mid	680.5	136100	-
	-	High	693	138600	
		Low	624.5	124900	
	Downlink	Mid	634.5	126900	15
15		High	644.5	128900	
15		Low	670.5	134100	
	Uplink	Mid	680.5	136100	-
		High	690.5	138100	
		Low	627	125400	
	Downlink	Mid	634.5	126900	15
00		High	642	128400	
20		Low	673	134600	
	Uplink	Mid	680.5	136100	-
	•	High	688	137600	
		Low	627	125400	
	Downlink	Mid	634.5	126900	15
05		High	642	128400	
25		Low	673	134600	
	Uplink	Mid	680.5	136100	-
	•	High	688	137600	
		Low	632	126400	
	Downlink	Mid	634.5	126900	15
00		High	637	127400	1
30		Low	673	134600	
	Uplink	Mid	680.5	136100	1 -
	-1	High	678	135600	1



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4.9.10 Reference test frequencies for NR operating band n77 4.9.10.1 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	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	
	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	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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5 **Equipment List**

5G NR RF conducted test							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Signal Generator	Rohde & Schwarz	SMR 20	SZ-WRG-M-034	2024/08/19	2025/08/18		
MXG Vector Signal Generator	Keysight	N5182B	SZ-WRG-M-015	2024/01/30	2025/01/29		
Spectrum Analyzer	Keysight	N9030B	SEM004-30	2024/09/04	2025/09/03		
5G Wireless Test Platform	Star Point	SP9500	SZ-WRG-M-085	2024/01/30	2025/01/29		
DC power supply	HYELEC	HY3005B	SZ-WRG-M-024	2024/10/12	2025/10/11		
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/03/19	2025/03/18		
Humi/ Temp Indicator	Shanghai Meteorological Industry Factory	HTC-1	SZ-WRG-M-077	2024/05/28	2025/05/27		
Test Software	TST PASS	TST PASS V2.0	N/A	NCR	NCR		



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Radiated spurious emissions							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038B	SEM004-29	2024/08/14	2025/08/13		
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024/01/30	2025/01/29		
Pre-amplifier (30MHz-1GHz)	SGS	AMP30M1G30	SEM005-33	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	2025/12/24		
TRILOG Breitband Antenne 30MHz-1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2025/12/24		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2025/12/20		
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2025/12/24		
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-M-058	NCR	NCR		
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-M-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 2025/01/07	2025/01/04 2028/01/06		
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	STARPOINT	SP9500	SZ-WRG-M-083	2024/05/24	2025/05/23		

Remark: NCR=No Calibration Requirement.



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*Note: In this report, the equipment was not used after 2025/01/04, Radiated sporadic emissions testing completed before this date.



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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 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

Test Settings

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).



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6.4 Occupied Bandwidth

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

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

Remark: Reference test setup 1

Test Settings

- The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. 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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6.5 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

Remark: Reference test setup 1

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. 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
- Sweep time = auto couple
- 9. The trace was allowed to stabilize





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6.6 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

Remark: Reference test setup 1

Test Settings

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



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6.7 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

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

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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6.8 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

Below 1GHz test procedure as below:

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

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

Above 1GHz test procedure as below:

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

E (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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6.9 Frequency Stability / Temperature Variation

Measurement Procedure:

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

The frequency stability of the transmitter is measured by:

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

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

Time Period and Procedure:

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

Remark: Reference test setup 3



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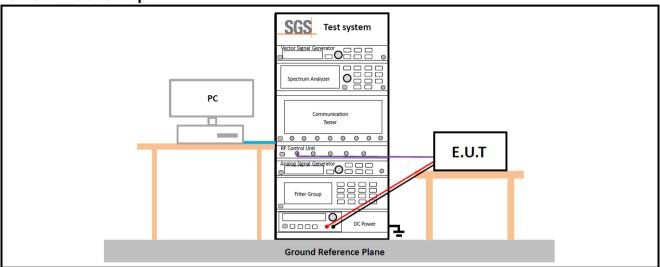
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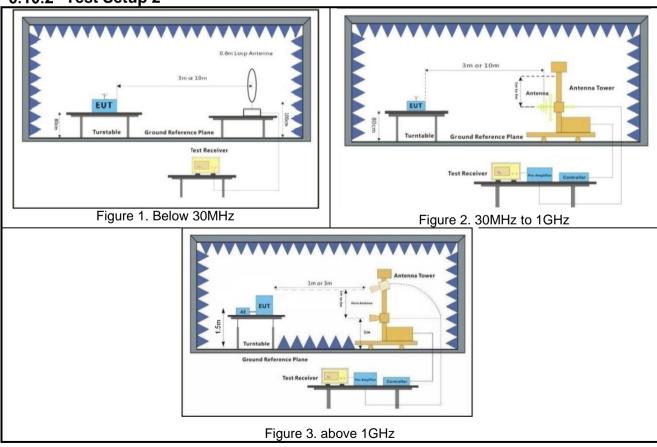
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6.10Test Setups

6.10.1 Test Setup 1



6.10.2 Test Setup 2





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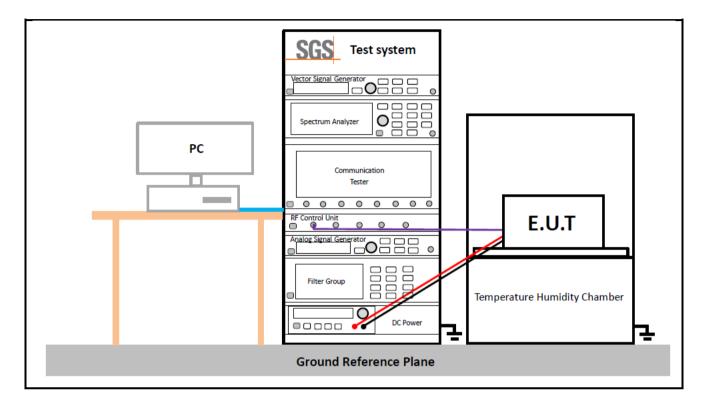
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6.10.3 Test Setup 3





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6.11 Test Conditions

Transmit Output Power Data - Average Power, Spectral Density		
Test Case	Test Conditions	
Test Environment	Ambient Climate & Rated Voltage	
Test Setup	Test Setup 1	
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)	
Test Mode	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	
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	
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9 Band Edges Compliance	
Test Mode Test Case		
	Band Edges Compliance	
Test Case	Band Edges Compliance Test Conditions	



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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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Appendixes 7

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Appendix B.19	NR Band n2
Appendix B.20	NR Band n5
Appendix B.21	NR Band n25
Appendix B.22	NR Band n30
Appendix B.23	NR Band n41
Appendix B.24	NR Band n48
Appendix B.25	NR Band n66
Appendix B.26	NR Band n70
Appendix B.27	NR Band n71
Appendix B.28	NR Band n77(3450-3550)
Appendix B.29	NR Band n77(3700-3980)

---End of Report---



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