Report No.: TCWA25040028002

TEST REPORT

Applicant: Vantiva USA LLC

EUT Description: 5G Module

> Model: FG180-NA

Brand: N/A

FCC ID: G95FG180NA

Standards: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 22 FCC CFR Title 47 Part 24 FCC CFR Title 47 Part 27 FCC CFR Title 47 Part 90

FCC CFR Title 47 Part 96

Date of Receipt: 2024/09/05 (Original Report TCWA24080023402)

2024/12/23 (Original Report TCWA24120038202)

2025/05/07 (This Report TCWA25040028002)

Date of Test: 2024/09/05 to 2024/12/16 (Original Report TCWA24080023402)

2024/12/23 to 2025/02/19 (Original Report TCWA24120038202)

2025/05/07 to 2025/05/30 (This Report TCWA25040028002)

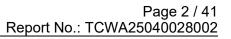
Date of Issue: 2025/06/03

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.

> Huangkun Approved By:

ChenChenafu Reviewed By:





Revision History

Rev.	Issue Date	Description	Revised by
01	2025/06/03	Original	Chen Chengfu



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Reporting Declaration

Remark for report TCWA24120038202:

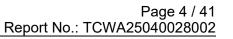
According to the declaration letter from client, this report all frequency bands have updated antenna gain, so the Field Strength of Spurious Radiation was retested and EIRP/ERP was recalculated. Due to some frequency bands needing to meet FCC limits and reducing power, so the power test data of NR Band n30/n48/n66/n70/n77/n78 were retested.

All the other data reflected in this report are based on the original report with report number TCWA24080023402 (FCC ID: ZMOFG180WNA).

Remark for report TCWA25040028002:

According to the declaration letter from client, this report the worst data of Field Strength of Spurious Radiation is spot checked.

All the other data reflected in this report are based on the original report with report number TCWA24120038202 (FCC ID: G95FG180NA).





Summary of Test Results

FCC Part	Test Band	Test Item	Test Result
\$2.1046, \$22.913(a)(5) \$27.50(c)(10) \$90.542(a) \$27.50(b)(9)	NR Band n5/ NR Band n26 (824~849 MHz) NR Band n12/71 NR Band n14 NR Band n13	Effective Radiated Power	Pass
§2.1046, §27.50(h)(2) §24.232(c) §27.50(d)(4) §27.50(k)(3) §27.50(j)(3)	NR Band n7/ NR Band n38/ NR Band n41 NR Band n2/ NR Band n25 NR Band n66/70 NR Band n77/78(3450-3550MHz) NR Band n77/78(3550-3980MHz)	Effective Isotropic Radiated Power	Pass
§27.50(a)(3) §96.41	NR Band n30 NR Band n48	Maximum EIRP and Maximum PSD	Pass
§2.1046, §90.635(b)	NR Band n26(814~824 MHz)	Transmitter Conducted Power Output	Pass
\$22.913(d) \$24.232(d) \$27.50(d)(5) §96.41	NR Band n5/ NR Band n26 (824~849 MHz) NR Band n2/ NR Band n25 Others NR Band NR Band n48	Peak-Average Ratio	Pass
§2.1049	All NR Band	Occupied Bandwidth	Pass
§2.1051 §90.210(b) § 90.691(a)	NR Band n14 NR Band n26(814~824 MHz)	Emission Mask	Pass
\$2.1051 \$22.917(a) \$27.53(m4) \$24.238(a) \$27.53(g) \$27.53(c) \$90.543(e)(2)(3) \$27.53(a)(4) \$27.53(h) \$27.50(n)(2) \$27.53(l)(2) \$96.41	NR Band n5/ NR Band n26 (824~849 MHz) NR Band n7/ NR Band n38/ NR Band n41 NR Band n2/ NR Band n25 NR Band n12/71 NR Band n13 NR Band n14 NR Band n30 NR Band n66/70 NR Band n77/78(3450-3550MHz) NR Band n77/78(3550-3980MHz) NR Band n48	Band Edge	Pass
§2.1051 §22.917(a) §27.53(m) §24.238(a) §27.53(c)(f) §90.543(c)(f) §90.691 §27.53(a)(4) §27.53(h) §27.50(n)(2) §27.53(l)(2) §96.41	NR Band n5/ NR Band n26 (824~849 MHz) NR Band n7/ NR Band n38/ NR Band n41 NR Band n2/ NR Band n25 NR Band n12/71 NR Band n13 NR Band n14 NR Band n26(814~824 MHz) NR Band n30 NR Band n66/70 NR Band n77/78(3450-3550MHz) NR Band n77/78(3550-3980MHz) NR Band n48	Spurious Emission at Antenna Terminals	Pass
\$2.1051 \$22.917(a) \$27.53(m) \$24.238(a) \$27.53(g) \$27.53(c)(f) \$90.543(c)(f) \$90.691 \$27.53(a)(4)	NR Band n5/ NR Band n26 (824~849 MHz) NR Band n7/ NR Band n38/ NR Band n41 NR Band n2/ NR Band n25 NR Band n12/71 NR Band n13 NR Band n14 NR Band n26(814~824 MHz) NR Band n30	Field Strength of Spurious Radiation	Pass

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd.

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FCC Part	Test Band	Test Item	Test Result
§27.53(h) §27.50(n)(2) §27.53(l)(2) §96.41	NR Band n66/70 NR Band n77/78(3450-3550MHz) NR Band n77/78(3550-3980MHz) NR Band n48		
§2.1055 §22.355 §24.235 §27.54 §90.213 §96.41	NR Band n5/ NR Band n26 (824~849 MHz) NR Band n2/ NR Band n25 Others NR Band NR Band n14/NR Band n26(814~824 MHz) NR Band n48	Frequency Stability	Pass
§96.41	NR Band n48	Adjacent Channel Leakage Ratio	Pass
Remark: Pass: Meet the re	quirement.		



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General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing

laboratory.

CAB identifier: CN0152 Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Vantiva USA LLC
Address:	4855 Peachtree Industrial Blvd, Suite 200, Norcross, GA 30092, USA

1.2.2 Manufacturer

Manufacturer:	Vantiva USA LLC
Address:	4855 Peachtree Industrial Blvd, Suite 200, Norcross, GA 30092, USA

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd.

Email: info@towewireless.com TOWE-QP-15-F05 Rev.1.1

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1.3 Product Information

1.3 Product Info	ormation						
EUT Description:	5G Module						
Model:	FG180-NA						
Brand:	N/A						
Hardware Version:	V1.3						
Software Version:	99111.1000.00.01.01.04						
SN:	C7X2QQ002A (Original)						
IMEI:	353652770103860 (This) 353652770103803 (This)						
Feature:		nd n25; NR Band n41; NR Band and n71; NR Band n77; NR Bai					
Technical specification:							
	Band	TX Frequency	RX Frequency				
	NR Band n2	1850 to 1910 MHz	1930 to 1990 MHz				
	NR Band n5	824 to 849 MHz	869 to 894 MHz				
	NR Band n7	2500 to 2570 MHz	2620 to 2690 MHz				
	NR Band n12	699 to 716 MHz	729 to 746 MHz				
	NR Band n13	777 to 787 MHz	746 to 756 MHz				
	NR Band n14	788 to 798 MHz	758 to 768 MHz				
	NR Band n25	1850 to 1915MHz	1930 to 1995 MHz				
	NR Band n26 (814 to 824 MHz)	814 to 824MHz	859 to 869 MHz				
	NR Band n26 (824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz				
	NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz				
	NR Band n38	2570 to 2620 MHz	2570 to 2620 MHz				
	NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz				
Operation Frequency Range:	NR Band n48	3550 to 3700 MHz	3550 to 3700 MHz				
3	NR Band n66	1710 to 1780 MHz	2110 to 2200 MHz				
	NR Band n70	1695 to 1710 MHz	1995 to 2020 MHz				
	NR Band n71	663 to 698 MHz	617 to 652 MHz				
	ND D 1 774	3450 to 3550 MHz	3450 to 3550 MHz				
	NR Band n77*	3700 to 3980 MHz	3700 to 3980 MHz				
		3450 to 3550 MHz	3450 to 3550 MHz				
	NR Band n78*	3700 to 3800 MHz	3700 to 3800 MHz				
		BA/14A/30A/48A/66A/71A _n2A					
	DC 2A/4A/12A/13A/6	30A/48A/66A/71A _n5A 36A/71A n7A					
	DC_2A/5A/7A/48A/6	-					
	DC 5A/7A/12A/13A/2	-					
		_					
		DC 2A/4A/5A/12A/66A/71A _n38A					
	DC 2A/5A/12A/14A/66A _n30A						





DC 2A/5A/7A/12A/13A/14A/30A/48A/71A n66A DC 2A/5A/7A/12A/13A/48A/66A n71A DC 2A/5A/7A/12A/13A/14A/25A/30A/41A/66A/71A n77A DC 2A/4A/5A/7A/12A/13A/25A/38A/41A/66A/71A n78A NR CA: n12A-n77A; n13A-n77A; n14A-n77A; n25A-n38A n25A-n41A; n25A-n48A; n25A-n78A; n26A-n66A n26A-n70A; n2A-n41A; n2A-n48A; n2A-n77A n2A-n78A; n38A-n66A; n41A-n66A; n41A-n71A n48A-n66A; n48A-n70A; n48A-n71A; n5A-n48A n5A-n77A; n5A-n78A; n66A-n71A; n66A-n78A n70A-n71A; n71A-n78A; n7A-n77A; n7A-n78A n25A-n77A; n30A-n77A; n66A-n77A; n71A-n77A; Note*: The frequency range of NR Band n77 covers the frequency range of NR Band n78, so NR Band n77 was fully tested. Class 2: NR Band n2; NR Band 25; NR Band 66; NR Band 70; NR Band 71 (with SA TXD /UL MIMO); Power Class: Class 2: NR Band n41; NR Band 77; NR Band 78 (for NSA) Class 1.5: NR Band n41; NR Band 77; NR Band 78 (with SA TXD /UL MIMO); Class 2: n25A-n77A; n30A-n77A; n66A-n77A; n71A-n77A; ☐ DFT-s-OFDM: Pi/2-BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Type of Modulation: ☐ CP-OFDM: QPSK, 16-QAM, 64-QAM, 256-QAM Bandwidth (MHz) SCS NR Band (kHz) 35 5 10 25 30 40 60 90 100 15 20 50 70 80 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 15 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ / 1 n2 1 1 $\sqrt{}$ 15 $\sqrt{}$ $\sqrt{}$ / / / / / 1 / / / / n5 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 15 $\sqrt{}$ / / 1 n7 1 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ / / / n12 15 / / 1 / 1 $\sqrt{}$ $\sqrt{}$ n13 15 / / / / / / 1 1 1 1 $\sqrt{}$ / / / / / / / n14 15 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ n25 15 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 1 1 1 $\sqrt{}$ $\sqrt{}$ / Operation Bandwidth: n26 15 / / / / 1 1 $\sqrt{}$ n30 15 $\sqrt{}$ / 1 / / 1 / 1 / 1 / / n38 30 / $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ n41 30 / $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ n48 30 / / $\sqrt{}$ / 1 / / / / 15 $\sqrt{}$ $\sqrt{}$ / n66 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 1 1 1 $\sqrt{}$ $\sqrt{}$ / n70 15 / / 1 1 1 $\sqrt{}$ n71 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ / / 1 15 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ n77 30 $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 30 $\sqrt{}$ $\sqrt{}$ n78 Type: Dipole Antenna: Model: GHT-019A





	Impedance	50Ω	
	SN.:	N/A	
	Band	Ant1(dBi)	Ant8(dBi)
	NR Band n2:	2.5	4
	NR Band n5:	1	1.5
	NR Band n7:	3.5	1
	NR Band n12:	1	1.7
	NR Band n13:	1	1
	NR Band n14:	1	1.2
	NR Band n25:	2.5	4
	NR Band n26:	1	1.5
Antenna Gain:	NR Band n30:	3	3
	NR Band n38:	3.3	3.8
	NR Band n41:	4	3.8
	NR Band n48:	3.5	4.6
	NR Band n66:	2.5	3.5
	NR Band n70:	1.9	2.5
	NR Band n71:	1.2	1.2
	NR Band n77/n78: (3450 to 3550 MHz)	3.5	4
	NR Band n77/n78: (3700 to 3980 MHz)	3.2	4.5

Remark: The above EUT's information was declared by applicant, please refer to the specifications or user manual for more detailed description.



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2 Test Configuration

2.1 Test Channel

5G NR Band n2 and SCS 15 kHz						
		TX Frequenc	су	RX Frequency		
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)	Range	Carrier centre (ARFCN)	Carrier centre (MHz)
	Low	370500	1852.5	Low	386500	1932.5
5MHz	Middle	376000	1880	Middle	392000	1960
	High	381500	1907.5	High	397500	1987.5
	Low	371000	1855	Low	387000	1935
10MHz	Middle	376000	1880	Middle	392000	1960
	High	381000	1905	High	397000	1985
	Low	371500	1857.5	Low	387500	1937.5
15MHz	Middle	376000	1880	Middle	392000	1960
	High	380500	1902.5	High	396500	1982.5
	Low	372000	1860	Low	388000	1940
20MHz	Middle	376000	1880	Middle	392000	1960
	High	380000	1900	High	396000	1980
	Low	372500	1862.5	Low	388500	1942.5
25MHz	Middle	376000	1880	Middle	392000	1960
	High	379500	1897.5	High	395500	1977.5
	Low	373000	1865	Low	389000	1945
30MHz	Middle	376000	1880	Middle	392000	1960
	High	379000	1895	High	395000	1975
	Low	373500	1867.5	Low	389500	1947.5
35MHz	Middle	376000	1880	Middle	392000	1960
	High	378500	1892.5	High	394500	1972.5
	Low	374000	1870	Low	390000	1950
40MHz	Middle	376000	1880	Middle	392000	1960
	High	378000	1890	High	394000	1970

	5G NR Band n5 and SCS 15 kHz							
		TX Frequenc		RX Frequency				
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)	Range	Carrier centre (ARFCN)	Carrier centre (MHz)		
	Low	165300	826.5	Low	174300	871.5		
5MHz	Middle	167300	836.5	Middle	176300	881.5		
	High	169300	846.5	High	178300	891.5		
	Low	165800	829	Low	174800	874		
10MHz	Middle	167300	836.5	Middle	176300	881.5		
	High	168800	844	High	177800	889		
	Low	166300	831.5	Low	175300	876.5		
15MHz	Middle	167300	836.5	Middle	176300	881.5		
	High	168300	841.5	High	177300	886.5		
	Low	166800	834	Low	175800	879		
20MHz	Middle	167300	836.5	Middle	176300	881.5		
	High	167800	839	High	176800	884		



5G NR Band n7 and SCS 15 kHz							
				S 15 KHZ	DV		
5 1 1 111		TX Frequenc			RX Frequency		
Bandwidth	Range	Carrier centre	Carrier centre	Range	Carrier centre	Carrier centre	
		(ARFCN)	(MHz)	_	(ARFCN)	(MHz)	
	Low	500500	2502.5	Low	524500	2622.5	
5MHz	Middle	507000	2535	Middle	531000	2655	
	High	513500	2567.5	High	537500	2687.5	
	Low	501000	2505	Low	525000	2625	
10MHz	Middle	507000	2535	Middle	531000	2655	
	High	513000	2565	High	537000	2685	
	Low	501500	2507.5	Low	525500	2627.5	
15MHz	Middle	507000	2535	Middle	531000	2655	
	High	512500	2562.5	High	536500	2682.5	
	Low	502000	2510	Low	526000	2630	
20MHz	Middle	507000	2535	Middle	531000	2655	
	High	512000	2560	High	536000	2680	
	Low	502500	2512.5	Low	526500	2632.5	
25MHz	Middle	507000	2535	Middle	531000	2655	
	High	511500	2557.5	High	535500	2677.5	
	Low	503000	2515	Low	527000	2635	
30MHz	Middle	507000	2535	Middle	531000	2655	
	High	511000	2555	High	535000	2675	
	Low	503500	2517.5	Low	527500	2637.5	
35MHz	Middle	507000	2535	Middle	531000	2655	
	High	510500	2552.5	High	534500	2672.5	
	Low	504000	2520	Low	528000	2640	
40MHz	Middle	507000	2535	Middle	531000	2655	
	High	510000	2550	High	534000	2670	

5G NR Band n12 and SCS 15 kHz						
		TX Frequenc	у		RX Frequenc	;y
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)	Range	Carrier centre (ARFCN)	Carrier centre (MHz)
	Low	140300	701.5	Low	146300	731.5
5MHz	Middle	141500	707.5	Middle	147500	737.5
	High	142700	713.5	High	148700	743.5
	Low	140800	704	Low	146800	734
10MHz	Middle	141500	707.5	Middle	147500	737.5
	High	142200	711	High	148200	741
	Low	141300	706.5	Low	147300	736.5
15MHz	Middle	141500	707.5	Middle	147500	737.5
	High	141700	708.5	High	147700	738.5

5G NR Band n13 and SCS 15 kHz								
		TX Frequenc	У		RX Frequenc	Sy .		
Bandwidth	Range	Carrier centre	Carrier centre	Range	Carrier centre	Carrier centre		
	rvarige	(ARFCN)	(MHz)	Range	(ARFCN)	(MHz)		
	Low	155900	779.5	Low	149700	748.5		
5MHz	Middle	156400	782	Middle	150200	751		
	High	156900	784.5	High	150700	753.5		
	Low			Low				
10MHz	Middle	156400	782	Middle	150200	751		
	High			High				



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5G NR Band n14 and SCS 15 kHz								
SG NR Band 114 and SCS 15 kHZ								
		TX Frequence	у		RX Frequenc	У		
Bandwidth	Dongo	Carrier centre	Carrier centre	Dongs	Carrier centre	Carrier centre		
	Range	(ARFCN)	(MHz)	Range	(ARFCN)	(MHz)		
	Low	158100	790.5	Low	152100	760.5		
5MHz	Middle	158600	793	Middle	152600	763		
	High	159100	795.5	High	153100	765.5		
	Low			Low				
10MHz	Middle	158600	793	Middle	152600	763		
	High			High				

	5G NR Band n25 and SCS 15 kHz								
		TX Frequenc	cy .		RX Frequency				
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)	Range	Carrier centre (ARFCN)	Carrier centre (MHz)			
	Low	370500	1852.5	Low	386500	1932.5			
5MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	382500	1912.5	High	398500	1992.5			
	Low	371000	1855	Low	387000	1935			
10MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	382000	1910	High	398000	1990			
	Low	371500	1857.5	Low	387500	1937.5			
15MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	381500	1907.5	High	397500	1987.5			
	Low	372000	1860	Low	388000	1940			
20MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	381000	1905	High	397000	1985			
	Low	372500	1862.5	Low	388500	1942.5			
25MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	380500	1902.5	High	396500	1982.5			
	Low	373000	1865	Low	389000	1945			
30MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	380000	1900	High	396000	1980			
	Low	373500	1867.5	Low	389500	1947.5			
35MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	379500	1897.5	High	395500	1977.5			
	Low	374000	1870	Low	390000	1950			
40MHz	Middle	376500	1882.5	Middle	392500	1962.5			
	High	379000	1895	High	395000	1975			

5G NR Band n26(814~824MHz) and SCS 15 kHz								
		TX Frequenc	у		RX Frequenc	у		
Bandwidth	Donne	Carrier centre	Carrier centre	Danas	Carrier centre	Carrier centre		
	Range	(ARFCN)	(MHz)	Range	(ARFCN)	(MHz)		
	Low	163300	816.5	Low	172300	861.5		
5MHz	Middle	163800	819	Middle	172800	864		
	High	164300	821.5	High	173300	866.5		
	Low			Low				
10MHz	Middle	163800	819	Middle	172800	864		
	High			High				





	5G NR Band n26(824~849MHz) and SCS 15 kHz								
		TX Frequenc	;y		RX Frequenc	у			
Bandwidth	Pango	Carrier centre	Carrier centre	Range	Carrier centre	Carrier centre			
	Range	(ARFCN)	(MHz)		(ARFCN)	(MHz)			
	Low	165300	826.5	Low	174300	871.5			
5MHz	Middle	167300	836.5	Middle	176300	881.5			
	High	169300	846.5	High	178300	891.5			
	Low	165800	829	Low	174800	874			
10MHz	Middle	167300	836.5	Middle	176300	881.5			
	High	168800	844	High	177800	889			
	Low	166300	831.5	Low	175300	876.5			
15MHz	Middle	167300	836.5	Middle	176300	881.5			
	High	168300	841.5	High	177300	886.5			
	Low	166800	834	Low	175800	879			
20MHz	Middle	167300	836.5	Middle	176300	881.5			
	High	167800	839	High	176800	884			

5G NR Band n30 and SCS 15 kHz								
		TX Frequenc	у		RX Frequenc	у		
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)	Range	Carrier centre (ARFCN)	Carrier centre (MHz)		
	Low	461500	2307.5	Low	470500	2352.5		
5MHz	Middle	462000	2310	Middle	471000	2355		
	High	462500	2312.5	High	471500	2357.5		
	Low	462000	2310	Low	471000	2355		
10MHz	Middle	462000	2310	Middle	471000	2355		
	High	462000	2310	High	471000	2355		

	5G NR Band n38, SCS 3	30 kHz and ΔF _{Raster} 30 kHz				
	TX & RX Frequency					
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)			
	Low	515000	2575			
10MHz	Middle	519000	2595			
	High	523000	2615			
	Low	515500	2577.5			
15MHz	Middle	519000	2595			
	High	522500	2612.5			
	Low	516000	2580			
20MHz	Middle	519000	2595			
	High	522000	2610			
	Low	517000	2585			
30MHz	Middle	519000	2595			
	High	521000	2605			
	Low	518000	2590			
40MHz	Middle	519000	2595			
	High	520000	2600			





		TX & RX Frequency	
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)
	Low	500202	2501.01
10MHz	Middle	518598	2592.99
	High	537000	2685
	Low	500700	2503.5
15MHz	Middle	518598	2592.99
	High	536496	2682.48
	Low	501204	2506.02
20MHz	Middle	518598	2592.99
	High	535998	2679.99
	Low	502200	2511
30MHz	Middle	518598	2592.99
	High	534996	2674.98
	Low	503202	2516.01
40MHz	Middle	518598	2592.99
	High	534000	2670
	Low	504204	2521.02
50MHz	Middle	518598	2592.99
	High	532998	2664.99
	Low	505200	2526
60MHz	Middle	518598	2592.99
	High	531996	2659.98
	Low	506200	2531
70MHz	Middle	518598	2592.29
	High	531000	2655
	Low	507204	2536.02
80MHz	Middle	518598	2592.99
	High	529998	2649.99
	Low	508200	2541
90MHz	Middle	518598	2592.99
	High	528996	2644.98
	Low	509202	2546.01
100MHz	Middle	518598	2592.99
	High	528000	2640

	5G NR Band n48, SCS 3	O kHz and ΔF _{Raster} 30 kHz				
	TX & RX Frequency					
Bandwidth	Range	Carrier centre	Carrier centre			
	Range	(ARFCN)	(MHz)			
	Low	637000	3555			
10MHz	Middle	641666	3624.99			
	High	646332	3694.98			
	Low	637168	3557.52			
15MHz	Middle	641666	3624.99			
	High	646166	3692.49			
	Low	637334	3560.01			
20MHz	Middle	641666	3624.99			
	High	646000	3690			
	Low	637668	3565.02			
30MHz	Middle	641666	3624.99			
	High	645666	3684.99			
	Low	638000	3570			
40MHz	Middle	641666	3624.99			
	High	645332	3679.98			



	5G NR Band n66, SCS 15 kHz									
		TX Frequenc		10 10 12	RX Frequency					
Bandwidth		Carrier centre	Carrier centre	D	Carrier centre	Carrier centre				
	Range	(ARFCN)	(MHz)	Range	(ARFCN)	(MHz)				
	Low	435500	1712.5	Low	422500	2112.5				
5MHz	Middle	342500	1745	Middle	431000	2155				
	High	349000	1777.5	High	439500	2197.5				
	Low	343000	1715	Low	423000	2115				
10MHz	Middle	349000	1745	Middle	431000	2155				
	High	355000	1775	High	439000	2195				
	Low	343500	1717.5	Low	423500	2117.5				
15MHz	Middle	349000	1745	Middle	431000	2155				
	High	354500	1772.5	High	438500	2192.5				
	Low	344000	1720	Low	424000	2120				
20MHz	Middle	349000	1745	Middle	431000	2155				
	High	354000	1770	High	438000	2190				
	Low	344500	1722.5	Low	424500	2122.5				
25MHz	Middle	349000	1745	Middle	431000	2155				
	High	353500	1767.5	High	437500	2187.5				
	Low	345000	1725	Low	425000	2125				
30MHz	Middle	349000	1745	Middle	431000	2155				
	High	353000	1765	High	437000	2185				
	Low	345500	1727.5	Low	425500	2127.5				
35MHz	Middle	349000	1745	Middle	431000	2155				
	High	352500	1762.5	High	436500	2182.5				
	Low	346000	1730	Low	426000	2130				
40MHz	Middle	349000	1745	Middle	431000	2155				
	High	352000	1760	High	436000	2180				

5G NR Band n70, SCS 15 kHz									
		TX Frequenc	cy .		RX Frequenc	у			
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)	Range	Carrier centre (ARFCN)	Carrier centre (MHz)			
	Low	339500	1697.5	Low	399500	1997.5			
5MHz	Middle	340500	1702.5	Middle	400500	2002.5			
	High	341500	1707.7	High	401500	2007.5			
	Low	340000	1700	Low	400000	2000			
10MHz	Middle	340500	1702.5	Middle	400500	2002.5			
	High	341000	1705	High	401000	2005			
	Low	/	1	Low	/	1			
15MHz	Middle	340500	1702.5	Middle	400500	2002.5			
	High	/	1	High	/	/			



	5G NR Band n71, SCS 15 kHz									
		TX Frequenc	y		RX Frequenc	;y				
Bandwidth	Range	Carrier centre	Carrier centre	Range	Carrier centre	Carrier centre				
	range	(ARFCN)	(MHz)	rtange	(ARFCN)	(MHz)				
	Low	133100	665.5	Low	123900	619.5				
5MHz	Middle	136100	680.5	Middle	126900	634.5				
	High	139100	695.5	High	129900	649.5				
	Low	133600	668	Low	124400	622				
10MHz	Middle	136100	680.5	Middle	126900	634.5				
	High	138600	693	High	129400	647				
	Low	134100	670.5	Low	124900	624.5				
15MHz	Middle	136100	680.5	Middle	126900	634.5				
	High	138100	690.5	High	128900	644.5				
	Low	134600	673	Low	125400	627				
20MHz	Middle	136100	680.5	Middle	126900	634.5				
	High	137600	688	High	128400	642				

5G NR Band n77/n78(3450~3550MHz), SCS 30 kHz and ΔF _{Raster} 30 kHz				
		TX & RX Frequency		
Bandwidth	Dongo	Carrier centre	Carrier centre	
	Range	(ARFCN)	(MHz)	
	Low	630334	3455.01	
10MHz	Middle	633334	3500.01	
	High	636334	3545.01	
	Low	630500	3457.5	
15MHz	Middle	633334	3500.01	
	High	636166	3542.49	
	Low	630668	3460.02	
20MHz	Middle	633334	3500.01	
	High	636000	3540	
	Low	630835	3462.52	
25MHz	Middle	633334	3500.01	
	High	635833	3537.50	
	Low	631000	3465	
30MHz	Middle	633334	3500.01	
	High	635666	3534.99	
	Low	631334	3470.01	
40MHz	Middle	633334	3500.01	
	High	635334	3530.01	
	Low	631668	3475.02	
50MHz	Middle	633334	3500.01	
	High	635000	3525	
	Low	632000	3480	
60MHz	Middle	633334	3500.01	
	High	634666	3519.99	
	Low	632334	3485.01	
70MHz	Middle	633334	3500.01	
	High	634334	3515.01	
	Low	632668	3490.02	
80MHz	Middle	633334	3500.01	
	High	634000	3510	
	Low	633000	3495	
90MHz	Middle	633334	3500.01	
	High	633666	3504.99	
	Low			
100MHz	Middle	633334	3500.01	
	High			





5G NR	Band n77(3700~3980M	Hz), SCS 30 kHz and Δ F _{Raster} 3	30 kHz	
	TX & RX Frequency			
Bandwidth	Range	Carrier centre	Carrier centre	
		(ARFCN)	(MHz)	
	Low	647000	3705	
10MHz	Middle	656000	3840	
	High	665000	3975	
	Low	647168	3707.52	
15MHz	Middle	656000	3840	
	High	664832	3972.48	
	Low	647334	3710.01	
20MHz	Middle	656000	3840	
	High	664666	3969.99	
	Low	647501	3712.515	
25MHz	Middle	656000	3840	
	High	664499	3967.485	
	Low	647666	3714.99	
30MHz	Middle	656000	3840	
	High	664334	3965.01	
	Low	648000	3720	
40MHz	Middle	656000	3840	
	High	664000	3960	
	Low	648334	3725.01	
50MHz	Middle	656000	3840	
	High	663666	3954.99	
	Low	648668	3730.02	
60MHz	Middle	656000	3840	
	High	663332	3949.98	
	Low	649000	3735	
70MHz	Middle	656000	3840	
	High	663000	3945	
	Low	649334	3740.01	
80MHz	Middle	656000	3840	
	High	662666	3939.99	
	Low	649668	3745.02	
90MHz	Middle	656000	3840	
	High	662332	3934.98	
	Low	650000	3750	
100MHz	Middle	656000	3840	
	High	662000	3930	





5G NR	Band n78(3700~3800MF	Iz), SCS 30 kHz and ΔF _{Raster} 3	30 kHz		
	TX & RX Frequency				
Bandwidth	Range	Carrier centre (ARFCN)	Carrier centre (MHz)		
	Low	647000	3705		
10MHz	Middle	650000	3750		
	High	653000	3795		
	Low	647168	3707.52		
15MHz	Middle	650000	3750		
	High	652832	3792.48		
	Low	647334	3710.01		
20MHz	Middle	650000	3750		
	High	652666	3789.99		
	Low	647500	3712.5		
25MHz	Middle	650000	3750		
	High	652500	3787.5		
	Low	647668	3715.02		
30MHz	Middle	650000	3750		
	High	652334	3785.01		
	Low	648000	3720		
40MHz	Middle	650000	3750		
	High	652000	3780		
	Low	648334	3725.01		
50MHz	Middle	650000	3750		
	High	651666	3774.99		
	Low	649000	3735		
70MHz	Middle	650000	3750		
	High	651000	3765		
	Low	648668	3730.02		
60MHz	Middle	650000	3750		
	High	651332	3769.98		
	Low	649334	3740.01		
80MHz	Middle	650000	3750		
	High	650666	3759.99		
	Low	649668	3745.02		
90MHz	Middle	650000	3750		
• • · · · · · · · ·	High	650332	3754.98		
	Low		2.00		
100MHz	Middle	650000	3750		
	High				



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2.2 Worst-case configuration and Mode

Test Mode	Description
TM 1	EUT communication with simulated station in DFT-s-OFDM BPSK mode
TM 2	EUT communication with simulated station in DFT-s-OFDM QPSK mode
TM 3	EUT communication with simulated station in DFT-s-OFDM 16QAM mode
TM 4	EUT communication with simulated station in DFT-s-OFDM 64QAM mode
TM 5	EUT communication with simulated station in DFT-s-OFDM 256QAM mode
TM 6	EUT communication with simulated station in CP QPSK mode
TM 7	EUT communication with simulated station in CP 16QAM mode
TM 8	EUT communication with simulated station in CP 64QAM mode
TM 9	EUT communication with simulated station in CP 256QAM mode

Note:

- The maximum Conducted Power is calculated from max output power and max antenna gain, only the maximum Conducted Power is shown in the report.
- 2. NR n2/n25/n38/n41/n48/n66/n70/n71/n77/n78 support UL MIMO mode is correlated, the n2/ n25/ n38/ n41 / n48/ n66/ n70/ n71/ n77 n78 MIMO antenna gain = $10\log[(10^{G1/20}+10^{G2/20})^2/2]$. The conducted BE/Spurious are tested at single antenna port and add $10*\log(N_{ANT})$ according to KDB 662911 D01.
- 3. NR n2/n5/n7/n12/n25/n30/n38/n41/n66/n71/n77/n78 support SA and NSA mode. The whole testing has assessed SA mode by referring to the higher conducted power.
- 4. The device supports HPUE mode for NR n41/n77/n78 and PC1.5 for NR n41/n77/n78 UL MIMO.

2.3 Support Unit used in test

Description	Description Manufacturer		Serial Number
Development Board * Fibocom		ADP-FG190B-NA-21-00	1
Remark: * the information of ta	able is provided by client.		

2.4 Test Environment

Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C	
Relative Humidity	45-56 % RH Ambient	
Voltage:	Nominal: 3.8 Vdc, Extreme: Low 3.3 Vdc, High 4.4 Vdc	

2.5 Test RF Cable

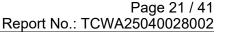
For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

2.6 Modifications

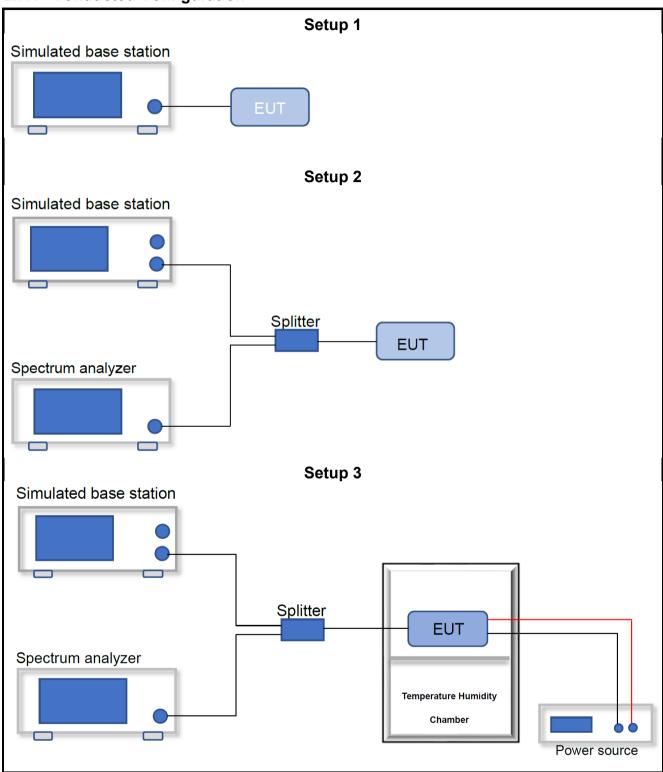
No modifications were made during testing.





2.7 Test Setup Diagram

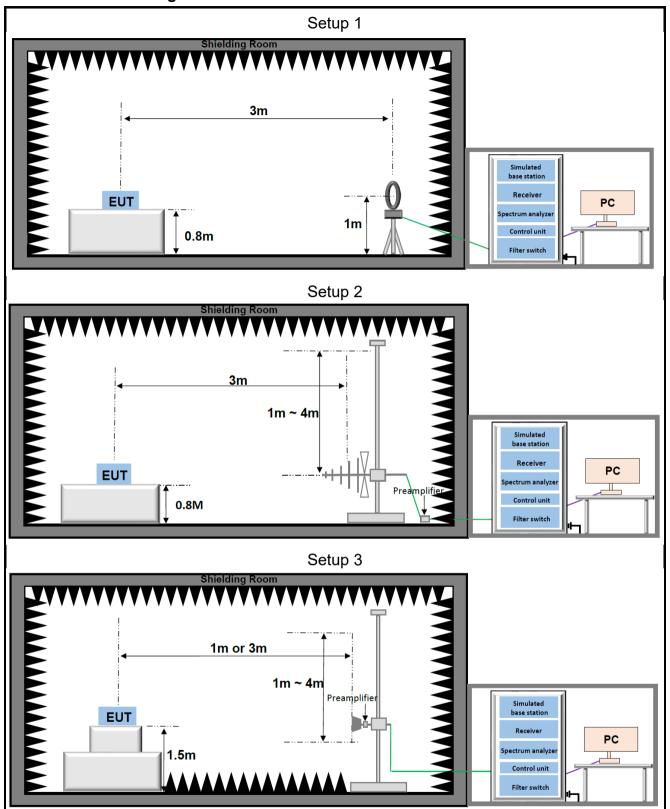
2.7.1 Conducted Configuration







2.7.2 Radiated Configuration





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Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable recognized national standards.

3.1 Test Equipment List

Original:

RF Conducted 07 (for report TCWA24080023402 & TCWA24120038202)							
Description	Manufacturer	Model	SIN	Last Due	Cal Due		
Radio Communication	Anritsu	MT8000A	6262208297	2023/11/07	2024/11/06		
Test Station	Allitsu	IIIISU WITOUUA	0202200291	2024/11/04	2025/11/03		
Signal Analyzer	Keysight	N9020A	MY53280106	2024/03/25	2025/03/24		
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29		
5G NR Basestation	StartPoint	SP9500-CTS	SP20676	2024/03/25	2025/03/24		
Measurement Software	Tonscend	TS1120 V3.1.46	10636	N/A	N/A		

Radiated E	Radiated Emission (for report TCWA24080023402 & TCWA24120038202)						
Description	Manufacturer	Model	SN	Last Due	Cal Due		
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24		
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24		
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24		
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2025/06/28		
Signal Analyzer	Keysight	N9020A	MY49100252	2024/03/25	2025/03/24		
EXA Signal Analyzer, Multi- touch	Keysight	N9010B	MY63440541	2024/05/30	2025/05/29		
Wideband Radio Communication Tester	R&S	CMW500	150645	2024/03/25	2025/03/24		
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2023/04/08	2025/04/07		
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2023/04/08	2025/04/07		
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2023/04/08	2025/04/07		
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31		
Test Software	Tonscend	TS+ V5.0.0	N/A	N/A	N/A		



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This:

Radiated Emission (for report TCWA25040028002)						
		•	1		0.15	
Description	Manufacturer	Model	S.N.	Last Due	Cal Due	
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24	
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24	
Loop Antenna	Schwarzbeck	FMZB 1519C	1519C-028	2023/06/29	2025/06/28	
Signal Analyzer	Keysight	N9020A	MY49100252	2025/03/11	2026/03/10	
Wideband Radio Communication Tester	R&S	CMW500	150645	2025/03/11	2026/03/10	
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2025/03/11	2027/03/10	
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2025/03/11	2027/03/10	
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806247	2025/03/11	2027/03/10	
Hygrometer	BINGYU	HTC-1	N/A	2023/06/01	2025/05/31	
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A	



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3.2 Measurement Uncertainty

Parameter	U _{lab}
Frequency error	50.30Hz
Output power	0.74dB
Conducted spurious emissions	2.22dB
Radiated Emissions(9kHz~30MHz)	2.40dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHz)	5.42dB
Radiated Emissions(18GHz~40GHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%



4 Test Results

4.1 Output Power(ERP / EIRP / Conducted Power)

Limits

FCC Part	Test Band	Limit
§22.913(a)(5)	NR Band n5/ NR Band n26 (824~849 MHz)	The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.
§24.232(c)	NR Band n2/ NR Band n25	Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
§27.50(h)(2)	NR Band n7/ NR Band n38/ NR Band n41	Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power
§27.50(d)(4)	NR Band n66/70	Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780MHz bands are limited to 1watt EIRP. Fixed stations operating in the 1710-1755MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.
§27.50(c)(10)	NR Band n12/71	Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3watts ERP.
§90.635(b)	NR Band n26(814~824MHz)	The maximum output power of the transmitter for mobile stations is 100 watts (20dBw).
§27.50(k)(3)	5G NR n77/78(3450-3550MHz)	Mobile devices are limited to 1Watt (30 dBm) EIRP
§27.50(j)(3)	5G NR n77/78(3700-3980MHz)	Mobile and portable stations are limited to 1 Watt EIRP
§27.50(b)(9)	NR Band n13	Control stations and mobile stations transmitting in the 746–757 MHz, 776–788 MHz, and 805–806 MHz bands and fixed stations transmitting in the 787–788 MHz and 805–806 MHz bands are limited to 30 watts ERP.
§90.542(a)	NR Band n14	Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

Test Procedure

FCC KDB 971168 D01 V03r01 Section 5.2.1, for Conducted Output Power;

FCC KDB 971168 D01 V03r01 Section 5.2, for 4.2 for Effective (Isotropic) Radiated Power

Test Settings

Conducted Output Power:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the simulated base station. The simulated station was set to force the EUT to its maximum power setting, Transmitter output power was read off in dBm, Read values have added cable loss and attenuation.



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Effective (Isotropic) Radiated Power(Conducted method):

The formula for calculating ERP/EIRP based on conduction power is as follows:

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

ERP=EIRP - 2.15dB

Effective (Isotropic) Radiated Power(Radiated method):

According to Appendix C of standard ANSI C63.26-2015:

EIRP=PR+LP

 $P_R = P_{meas} - G_R + L_C + L_{atten} - G_{amp}$

P_R: adjusted received power level, in dBW, dBm, or PSD;

L_P: basic free-space propagation path loss, in dB.

 $P_R = P_{meas} - G_R + L_C + L_{atten} - G_{amp}$

P_{meas}: measured power level, in dBW, dBm or PSD

GR: gain of the receive (measurement)antenna, in dBi

Lc: signal loss in the measurement cable. in dB

Latten: value of external attenuation (if used). in dB

Gamp: value of external amplification (if used), in dB

Test P_{meas} according to C63.26 standard Section 5.2.4

- 1. Set span to $2 \times$ to $3 \times$ the OBW.
- 2. Set RBW = 1% to 5% of the OBW.
- 3. Set VBW ≥ 3 × RBW.
- 4. Set number of measurement points in sweep ≥ 2 × span / RBW.
- 5. Detector= power averaging (rms)
- 6. Set sweep trigger to "free run."
- 7. Trace mode = max hold
- 8. Allow trace to fully stabilize.
- 9. Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement finetion with band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Test Setup

Refer to section 2.7.1 Setup 1

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.2 Maximum EIRP and Maximum PSD

Limits

FCC Part	Test Band	Limit			
§27.50(a)(3)	NR Band n30	For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.			
222.44			Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)	
§96.41	NR Band n48	End User Device	23	n/a	
		Category A CBSD	30	20	
		Category B CBSD ¹	47	37	

Test Procedure

KDB 971168 D01 V03r01 Section 5.4

Test Settings

- 10. Set span to 2 × to 3 × the OBW.
- 11. Set RBW = 1% to 5% of the OBW.
- 12. Set VBW ≥ 3 × RBW.
- 13. Set number of measurement points in sweep ≥ 2 × span / RBW.
- 14. Sweep time:
 - a) Set = auto-couple, or
 - b) Set ≥ [10 × (number of points in sweep) × (transmission symbol period)] for single sweep (automation-compatible) measurement.
- 15. Detector = power averaging (rms).
- 16. Set sweep trigger to "free run."
- 17. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.
- 18. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- 19. Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission. For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is a constant 25%.

Test notes

When average PSD limits are specified, the same fundamental measurement condition applies as previously discussed (i.e., averaging is to be performed only over durations of active transmissions at maximum output power level). Thus, when performing this measurement, the EUT must either be configured to transmit continuously at full power while the compliance measurement is performed, or else the measurement instrumentation must be configured to acquire data only over durations when the EUT is actively transmitting at full power. In circumstances where neither of these conditions can be realized, then alternative procedures are provided for both constant duty cycle and non-constant duty cycle transmissions.



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2. The PSD is measured following the same procedures described in 5.2.4.4 for measuring the total average power, but with the RBW set to the reference bandwidth specified by the applicable regulatory requirement, and by using the marker function to identify the maximum PSD instead of summing the power across the OBW. If the fundamental measurement condition cannot be realized, then one of the alternative procedures in 5.2.4.4.2 or 5.2.4.4.3 should be selected.

Test Setup

Refer to section 2.7.1 Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.



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4.3 Peak-Average Ratio

Limits

§22.913(d): The peak-to-average ratio (PAR) of the transmission must not exceed 13 dB.

§24.232(d): The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

§27.50(d)(5): The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

§96.41: The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test Procedure

FCC KDB 971168 D01 V03r01 Section 5.7.1

Test Settings

The following guidelines are offered for performing a CCDF measurement.

- 20. Set resolution/measurement bandwidth ≥ OBW or specified reference bandwidth.
- 21. Set the number of counts to a value that stabilizes the measured CCDF curve.
- 22. Set the measurement interval as follows:
 - a) For continuous transmissions, set to the greater of [10 × (number of points in sweep) × (transmission symbol period)] or 1 ms.
 - For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- 23. Record the maximum PAPR level associated with a probability of 0.1%.
- 24. The peak power level is calculated form the sum of the PAPR value from step d) to the measured average power.

Test Setup

Refer to section 2.7.1 Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.4 Occupied Bandwidth

Limits

For Reporting Purposes only

Test Procedure

FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

Test Settings

- 1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
- 2. The signal analyzer automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by ant intermediate power nulls in the fundamental emission.
- 3. The simulated base station was set to force the EUT to its maximum power setting.
- 4. RBW = 1 5% of the expected OBW
- 5. VBW = 3 times the RBW
- 6. Sweep = Auto
- 7. Detector = Peak
- 8. Trace = Max hold
- 9. The trace was allowed to stabilize

Test Setup

Refer to section 2.7.1 Setup 2

Measuring Instruments

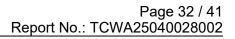
The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.5 Band Edge and Emission Mask

Limits

Band	Limit
NR Band n5/ NR Band n26 (824~849 MHz) NR Band n2/ NR Band n25 NR Band n12/71 NR Band n13 NR Band n66/70	
NR Band n7/ NR Band n38/ NR Band n41	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 MHz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 MHz and X MHz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth as defined 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.
NR Band n14/NR Band 26(814 ~ 824MHz)	On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment for mobile and portable stations. On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.
	in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz be employed.
NR Band n30	By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
	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 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
	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.
NR Band n77/78(3450-3550MHz)	In the 1 MHz bands immediately outside and adjacent to the licensee's frequency block: ≤-13 dB/(1% EBW, but no exceed 200kHz). In the bands between 1 and 5 MHz removed from the licensee's
	frequency block: ≤-13 dB/(500 kHz, or grater)
NR Band n77/78(3550-3980MHz)	In the 1 MHz bands immediately outside and adjacent to the licensee's frequency block: ≤-13 dB/(1% EBW, or 350 kHz). In the bands between 1 and 5 MHz removed from the licensee's frequency block: ≤-13 dB/(500 kHz, or grater)



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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.

Test Procedure

FCC KDB 971168 D01 V03r01 Section 6.0

Test Settings

- 1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
- 2. The simulated base station was set to force the EUT to its maximum power setting.
- 3. Start and stop frequency were set such that the band edge would be placed in the center of the plot.
- 4. RBW ≥ 1% of the emission bandwidth
- 5. VBW ≥ 3 times the RBW
- 6. Detector = RMS
- 7. Number of sweep point ≥ 2 times Span/RBW
- 8. Sweep = Auto
- 9. Trace = Max hold
- 10. The trace was allowed to stabilize

Test Setup

Refer to section 2.7.1. Setup 2

Test Notes

Transmit signals are correlated				
Band	ANT Gain1 (dBi)	ANT Gain8 (dBi)	Directional gain (dBi)	
NR Band n2:	2.5	4	6.29	
NR Band n25:	2.5	4	6.29	
NR Band n38:	3.3	3.8	6.56	
NR Band n41:	4	3.8	6.91	
NR Band n48:	3.5	4.6	7.08	
NR Band n66:	2.5	3.5	6.02	
NR Band n70:	1.9	2.5	5.22	
NR Band n71:	1.2	1.2	4.21	
NR Band n77: (3450 to 3550 MHz)	3.5	3.5	6.51	
NR Band n77: (3700 to 3980 MHz)	3	4.3	6.68	
NR Band n78: (3450 to 3550 MHz)	3.5	4	6.76	
NR Band n78: (3700 to 3800 MHz)	3.2	4.5	6.88	

The test results, combined with directional gain, still meet the limit requirements.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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4.6 Spurious Emission at Antenna Terminals

Limits

Band	Limit
NR Band n77/78(3450-3550MHz) NR Band n77/78(3550-3980MHz)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
NR Band n7/ NR Band n38/ NR Band n41	All frequencies between 2490.5 MHz and 2496 MHz and 5 + 10 log (P) dB at or below 2490.5 MHz.
	The power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log (P) decibels or 80 decibels, whichever is the lesser attenuation
NR Band n30	not less than 70 + 10 log (P) dB below 2288 MHz and above 2365 MHz.
NR Band n48	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, 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 emission below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Test Procedure

FCC KDB 971168 D01 V03r01 Section 6.0

Test Settings

- 1. The transmitter output was connected to a calibrated coaxial cable and coupler, The other end is connected to the spectrum analyzer and simulated station.
- 2. The simulated base station was set to force the EUT to its maximum transmitting power.
- 3. Start frequency was set to 9kHz and stop frequency was set to 10th harmonic.
- 4. RBW and VBW (see test notes)
- 5. Detector = RMS
- 6. Sweep = Auto
- 7. Sweep point = below 30MHz(1001pts); 30MHz 1GHz(2001pts); above 1GHz(40001pts)
- 8. Trace = trace average for continuous emissions, max hold for pulse emissions
- 9. Allow trace to fully stabilize

Test Notes

1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100kHz or greater for measurements below 1GHz. However, in the 1MHz 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 is attenuated at least 26dB below the transmitter power



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- 9kHz 150kHz: RBW=1kHz, VBW≥3 times the RBW
- 150kHz 30MHz: RBW=10kHz, VBW≥3 times the RBW
- Directional gain:

Transmit signals are correlated				
Band	ANT Gain1 (dBi)	ANT Gain8 (dBi)	Directional gain (dBi)	
NR Band n2:	2.5	4	6.29	
NR Band n25:	2.5	4	6.29	
NR Band n38:	3.3	3.8	6.56	
NR Band n41:	4	3.8	6.91	
NR Band n48:	3.5	4.6	7.08	
NR Band n66:	2.5	3.5	6.02	
NR Band n70:	1.9	2.5	5.22	
NR Band n71:	1.2	1.2	4.21	
NR Band n77: (3450 to 3550 MHz)	3.5	3.5	6.51	
NR Band n77: (3700 to 3980 MHz)	3	4.3	6.68	
NR Band n78: (3450 to 3550 MHz)	3.5	4	6.76	
NR Band n78: (3700 to 3800 MHz)	3.2	4.5	6.88	

The test results, combined with directional gain, still meet the limit requirements.

Test Setup

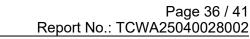
Refer to section 2.7.1. Setup 2

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.





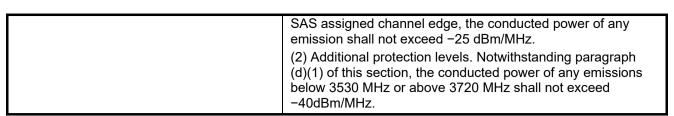
4.7 Field Strength of Spurious Radiation

Limits

Band	Limit
NR Band n5/ NR Band n26 (824~849 MHz)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.
NR Band n13	On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB; For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.
NR Band n14	least 43 + 10 log (P) dB. For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotopically radiated power (EIRP) for wideband signals.
NR Band n7/ NR Band n38/ NR Band n41	All frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.
NR Band n26(814~824 MHz)	The power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log (P) decibels or 80 decibels, whichever is the lesser attenuation.
NR Band n30	By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
	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 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz; 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.
NR Band n48	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



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Test Procedure

FCC KDB 971168 D01 V03r01 Section 7

Test Settings

- 1. For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
- 2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
- 3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- 4. For each suspected emission, the EUT was ranged its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) find the maximum reading. Preamplifier and a high pass filter are used for the test in order get better signal level comply with the guidelines.
- 5. The simulated base station was set to force the EUT to its maximum transmitting power.
- 6. spectrum analyzer setting:

Measurements 9kHz ~150kHz: RBW = 300Hz; VBW \geq 3 kHz; Detector = RMS Measurements 150kHz ~30MHz: RBW = 10kHz; VBW \geq 30 kHz; Detector = RMS Measurements 30MHz~1000MHz: RBW = 100kHz or 1MHz; VBW \geq 1MHz or 3MHz; Detector = RMS Measurements Above 1000MHz: RBW = 1 MHz; VBW \geq 3 MHz; Detector = RMS

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

E(dBμV/m) = Measured amplitude level (dBμV) + Cable Loss (dB) + Antenna Factor (dB/m).

E(dBμV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m).

E(dBuV/m) = EIRP(dBm) - 20log(D) + 104.8; where D is the measurement distance(in the far field region) in m.

EIRP(dBm) = $E(dB\mu V/m) + 20log(D) - 104.8$; where D is the measurement distance(in the far field region) in m.

So, from d: The measuring distance is usually at 3m, then 20*Log(3)=9.5424

Then, EIRP (dBm)= E (dB μ V/m) +9.5424-104.8=E (dB μ V/m)-95.2576

- 8. Repeat above procedures until all frequencies measured was complete.
- 9. Measure and record the results in the test report.

Test notes

- 3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4. Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1-meter test distance with the application of a distance correction factor.
- 5. Radiated spurious emissions were investigated from 9kHz to 30MHz, 30MHz-1GHz and above 1GHz. the disturbance between 9kHz to 30MHz, 30MHz-1GHz and 18GHz to 40GHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be recorded, so only the harmonics had been displayed.
- 6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.



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Test Setup

Refer to section 2.7.2 for details.

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.



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4.8 Frequency Stability V.S. Temperature, Voltage

Limits

§22.355:

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations. §24.235 / §27.54 / §90.213 / §96.41:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure

FCC KDB 971168 D01 V03r01 Section 9

Test Settings

- The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 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.
- 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.

Test Notes

a.) Temperature:

The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.

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.

Test Setup

Refer to section 2.7.1 Setup 3

Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.

Test Result

The detailed test data see: Appendix.

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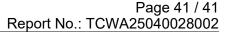
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5 Test Setup Photos

The detailed test data see: Test Setup Photos





Appendix

Appendix List:

Appendix-B NR Band n2
Appendix-B NR Band n5
Appendix-B NR Band n7
Appendix-B NR Band n12
Appendix-B NR Band n13
Appendix-B NR Band n14
Appendix-B NR Band n25
Appendix-B NR Band n26(814-824)
Appendix-B NR Band n26(824-849)
Appendix-B NR Band n30
Appendix-B NR Band n38
Appendix-B NR Band n41
Appendix-B NR Band n48
Appendix-B NR Band n66
Appendix-B NR Band n70
Appendix-B NR Band n71
Appendix-B NR Band n77(3450-3550)
Appendix-B NR Band n77(3700-3980)
Appendix-C Field Strength of Spurious Radiation-NR

~The End~