

TEST REPORT

APPLICANT	:	Reliance Communications LLC

- PRODUCT NAME : Orbic Fun Pro 5G
- MODEL NAME : R678L5SLFP
- BRAND NAME : Orbic
- FCC ID : 2ABGH-R678L5SLFP
- STANDARD(S) : 47 CFR Part 15 Subpart B
- **RECEIPT DATE** : 2023-12-21
- **TEST DATE** : 2024-02-18
- **ISSUE DATE** : 2024-07-10

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
2. Test Results ······	7
2.1. Applied Reference Documents	7
2.2. EUT Setup and Operating Conditions	8
3. 47 CFR Part 15B Requirements 12	2
3.1. Conducted Emission 12	2
3.2. Radiated Emission1	6
Annex A Test Uncertainty 2	3
Annex B Testing Laboratory Information 24	4

Change History				
Version	Date	Reason for Change		
1.0	2024-07-10	First edition		





1. Technical Information

Note: Provide by applicant

1.1. Applicant and Manufacturer Information

Applicant:	Reliance Communications LLC	
Applicant Address:	555 Wireless Blvd. Hauppauge, NY 11788, USA	
Manufacturer:	Unimaxcomm	
Manufacturer Address:	35F,HBC HuiLong Center Building-II Minzhi Street,Longhua,	
	Shenzhen, P.R. China 518110	

1.2. Equipment Under Test (EUT) Description

Product Name:	Orbic Fun Pro 5G
EUT No.:	9#, 10#
Hardware Version:	V1.0
Software Version:	R678L5SLFP_V1.0.10_BLL
Tx Frequency:	GSM850: 824 MHz ~ 849 MHz
	GSM1900: 1850 MHz ~ 1910 MHz
	WCDMA Band II: 1850 MHz ~ 1910 MHz
	WCDMA Band IV: 1710 MHz ~ 1755 MHz
	WCDMA Band V: 824 MHz ~ 849 MHz
	LTE Band 2: 1850 MHz ~ 1910 MHz
	LTE Band 4: 1710 MHz ~ 1755 MHz
	LTE Band 5: 824 MHz ~ 849 MHz
	LTE Band 7: 2500 MHz ~ 2570 MHz
	LTE Band 12: 699 MHz ~ 716 MHz
	LTE Band 13: 777 MHz ~ 787 MHz
	LTE Band 14: 788 MHz ~ 798 MHz
	LTE Band 17: 704 MHz ~ 716 MHz
	LTE Band 25: 1850 MHz ~ 1915 MHz
	LTE Band 26: 814 MHz ~ 849 MHz
	LTE Band 30: 2305 MHz ~ 2315 MHz
	LTE Band 41: 2496 MHz ~ 2690 MHz
	LTE Band 48: 3550 MHz ~ 3700 MHz
	LTE Band 66: 1710 MHz ~ 1780 MHz
	LTE Band 71: 663 MHz ~ 698 MHz
	5G NR n2: 1850 MHz ~ 1910 MHz



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	5G NR n5: 824 MHz ~ 849 MHz
	5G NR n25: 1850 MHz ~ 1915 MHz
	5G NR n26: 814 MHz ~ 849 MHz
	5G NR n41: 2496 MHz ~ 2690 MHz
	5G NR n48: 3550 MHz ~ 3700 MHz
	5G NR n66: 1710 MHz ~ 1780 MHz
	5G NR n71: 663 MHz ~ 698 MHz
	5G NR n77: 3300 MHz ~ 4200 MHz
	5G NR n78: 3300 MHz ~ 3800 MHz
	Bluetooth: 2402 MHz ~ 2480 MHz
	802.11b/g/n: 2412 MHz ~ 2462 MHz
	802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz NFC: 13.56 MHz
Rx Frequency:	GSM850: 869 MHz ~ 894 MHz
	GSM1900: 1930 MHz ~ 1990 MHz
	WCDMA Band II: 1930 MHz ~ 1990 MHz
	WCDMA Band IV: 2110 MHz ~ 2155 MHz
	WCDMA Band V: 869 MHz ~ 894 MHz
	LTE Band 2: 1930 MHz ~ 1990 MHz
	LTE Band 4: 2110 MHz ~ 2155 MHz
	LTE Band 5: 869 MHz ~ 894 MHz
	LTE Band 7: 2620 MHz ~ 2690 MHz
	LTE Band 12: 729 MHz ~ 746 MHz
	LTE Band 13: 746 MHz ~ 756 MHz
	LTE Band 14: 758 MHz ~ 768 MHz
	LTE Band 17: 734 MHz ~ 746 MHz
	LTE Band 25: 1930 MHz ~ 1995 MHz
	LTE Band 26: 859 MHz ~894 MHz
	LTE Band 30: 2350 MHz ~ 2360 MHz
	LTE Band 30: 2330 MHz ~ 2690 MHz
	LTE Band 48: 3550MHz–3700MHz
	LTE Band 66: 2110 MHz ~ 2200 MHz
	LTE Band 71: 617 MHz ~ 652 MHz
	5G NR n2: 1930 MHz ~ 1990 MHz
	5G NR n5: 869 MHz ~ 894 MHz
	5G NR n25: 1930 MHz ~ 1995 MHz
	5G NR n26: 859 MHz ~ 894 MHz
	5G NR n41: 2496 MHz ~ 2690 MHz
	5G NR n48: 3550 MHz ~ 3700 MHz
	5G NR n66: 2110 MHz ~ 2200 MHz



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	5G NR n71: 617	MHz ~ 652 MHz		
	5G NR n77: 3300) MHz ~ 4200 MHz		
	5G NR n78: 3300) MHz ~ 3800 MHz		
	Bluetooth: 2402 I	MHz ~ 2480 MHz		
	802.11b/g/n: 241	2 MHz ~ 2462 MHz		
	802.11a/ac/n: 5180 MHz ~ 5240 MHz; 5745 MHz ~ 5825 MHz NFC: 13.56 MHz			
	Wireless charging: 110kHz ~ 205kHz			
CA_UL:	2A-4A, 2A-5A, 4A-5A, 2A-66A, 5A-66A			
EN_DC:	DC_5A_n2, DC_2A_n66, DC_5A_n66, DC_2A_n78, DC_5A_n78			
Accessory:	AC Adapter			
	Brand Name:	Orbic		
	Model No.:	OACH023US1		
	Serial No.:	(N/A, marked #1 by test site)		
	Rated Input:	100-240V~50/60Hz, 0.5A		
	Rated Output:	5V=3A, 9V=2A, 12V=1.5A		
	Manufacturer 1:	WATAI ELECTRONICS PRIVATE LIMITED		
	Manufacturer 2:	KANGYIN ELECTRONIC TECHNOLOGY CO.,LTD		
	Battery			
	Brand Name:	Orbic		
	Model No.:	BTE-5004		
	Serial No.:	(N/A, marked #1 by test site)		
	Capacity:	4870mAh		
	Rated Voltage:	3.87V		
	Charge Limit:	4.45V		
	Manufacturer:	Shenzhen Aerospace Electronic Co.,Ltd.		
	USB Cable	· · · ·		
	Model:	HX-YLMK-06		
	Manufacturer:	HUIZHOU WASHIN ELECTRONICS CO., LTD		

Note:

 This test report is variant from the original report (Report No.: SZ23120302E01, Model Name: R678L5SFP) based on the similarity between before. It change model name, software version, FCC ID, enable LTE B14/17/25/26/30/41/71 and NR n25/26/41/71, the others are the same as before. We evaluated the above changes, which had no impact on the test results. The test





results in this report still refer to the test results of the original test report.

2. For a more detailed description, please refer to specification or user's manual supplied by the applicant and/or manufacturer.



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2. Test Results

2.1. Applied Reference Documents

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination Remark
1	15.107	Conducted Emission	2024.01.17	Wang Deyong	PASS ^{Note 4}	No deviation
2	15.109	Radiated Emission	2024.02.18	Zhang Bangyi	PASS Note 4	No deviation

Note 1:The tests were performed according to the method of measurements prescribed in ANSI C63.4-2014.

Note 2:Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3:When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

Note 4: The test results of these test items in this report refer to the test report (Report No.: SZ23120302E01).





2.2. EUT Setup and Operating Conditions

Note: All of the following test modes are tested in all the test items.

Test Item		
Radiated	Ε	mission
Mode 1	:	EUT + GSM850 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 2	:	EUT + GSM1900 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 3	:	EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB
		Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 4	:	EUT + WCDMA Band IV Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 5	:	EUT + WCDMA Band V Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB
		Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 6	:	EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 7	:	EUT + LTE Band 4 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 8	:	EUT + LTE Band 5 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 9	:	EUT + LTE Band 7 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 10	:	EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 11	:	EUT + LTE Band 13 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 12	:	EUT + LTE Band 48 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 13	:	EUT + LTE Band 66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 14	:	EUT + 5G NR n2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 15	:	EUT + 5G NR n5 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 16	:	EUT + 5G NR n48 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
		(Charging from Adapter) + AC Adapter + SIM Card
Mode 17	:	EUT + 5G NR n66 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable





	(Charging from Adapter) + AC Adapter + SIM Card
Mode 18 :	EUT + 5G NR n77 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 19 :	EUT + 5G NR n78 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 20 :	EUT + 2A-4A Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging
	from Adapter) + AC Adapter + SIM Card
Mode 21 :	EUT + 2A-5A Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 22 :	EUT + 2A-66A Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 23 :	EUT + DC_5A_n2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 24 :	EUT + DC_2A_n66 Idle + Bluetooth Idle + 5G WLAN Idle + NFC + Battery + USB
	Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 25 :	EUT + DC_2A_n78 Idle + Bluetooth Idle + 2.4G WLAN Idle + Wireless charging Rx +
	Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card
Made 26 -	
wode 26 :	EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB
	EUT + WCDMA Band II Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera
wode 26 :	
	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera
	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode
Mode 27 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear CameraRecording ModeEUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
Mode 27 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode
Mode 27 : Mode 28 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable +
Mode 27 : Mode 28 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode
Mode 27 : Mode 28 : Mode 29 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB
Mode 27 : Mode 28 : Mode 29 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission Mode
Mode 27 : Mode 28 : Mode 29 : Mode 30 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission Mode EUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
Mode 27 : Mode 28 : Mode 29 : Mode 30 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission Mode EUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission Mode EUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card EUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission Mode EUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card EUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 : Mode 32 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear CameraRecording ModeEUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording ModeEUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable +SIM Card + PC + PC Adapter + Rear Camera Recording ModeEUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USBCable + SIM Card + PC + PC Adapter + Data Transmission ModeEUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 25 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB CableEUT + LTE Band 25 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 : Mode 32 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording Mode EUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording Mode EUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording Mode EUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission Mode EUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card EUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card EUT + LTE Band 25 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 : Mode 32 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear CameraRecording ModeEUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording ModeEUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable +SIM Card + PC + PC Adapter + Rear Camera Recording ModeEUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USBCable + SIM Card + PC + PC Adapter + Data Transmission ModeEUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 25 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable(Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 : Mode 32 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording ModeEUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording ModeEUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording ModeEUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission ModeEUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 25 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card
Mode 27 : Mode 28 : Mode 29 : Mode 30 : Mode 31 : Mode 32 : Mode 33 :	Cable (Charging from Adapter) + AC Adapter + SIM Card + Rear Camera Recording ModeEUT + LTE Band 2 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card + Front Camera Recording ModeEUT + LTE Band 12 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Rear Camera Recording ModeEUT + EUT + 5G NR n66 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable + SIM Card + PC + PC Adapter + Data Transmission ModeEUT + LTE Band 14 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 17 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 25 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 26 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM CardEUT + LTE Band 30 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable (Charging from Adapter) + AC Adapter + SIM Card





Mode 36 :	EUT + LTE Band 71 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 37 :	EUT + 5G NR n25 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 38 :	EUT + 5G NR n26 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 39 :	EUT + 5G NR n41 Idle + Bluetooth Idle + 5G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 40 :	EUT + 5G NR n71 Idle + Bluetooth Idle + 2.4G WLAN Idle + Battery + USB Cable
	(Charging from Adapter) + AC Adapter + SIM Card
Mode 41 :	EUT + GSM850 Link + Bluetooth Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 42 :	EUT + GSM1900 Link + 2.4G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 43 :	EUT + GSM850 Link + 5G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 44 :	EUT + WCDMA Band II Link + Bluetooth Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 45 :	EUT + WCDMA Band IV Link + 2.4G WLAN Link + Battery + USB Cable (Charging
	from Adapter) + AC Adapter + SIM Card
Mode 46 :	EUT + WCDMA Band V Link + 5G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 47 :	EUT + LTE Band 2 Link + Bluetooth Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 48 :	EUT + LTE Band 7 Link + 2.4G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 49 :	EUT + LTE Band 13 Link + 5G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 50 :	EUT + 5G NR n2 Link + Bluetooth Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 51 :	EUT + 5G NR n48 Link + 2.4G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Mode 52 :	EUT + 5G NR n66 Link + 5G WLAN Link + Battery + USB Cable (Charging from
	Adapter) + AC Adapter + SIM Card
Remark:	•
The above	test mode in boldface (Mode 26) was the worst case of conducted emission test, only
the test dat	a of these modes were reported. The above test mode in boldface (Mode 29) was the

U worst case of radiated emission test, only the test data of these modes were reported.





During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15 - 35
Relative Humidity (%):	30 - 60
Atmospheric Pressure (kPa):	86 - 106



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3. 47 CFR Part 15B Requirements

3.1. Conducted Emission

3.1.1. Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range	Conducted Limit (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 - 0.50	66 to 56	56 to 46			
0.50 - 5	56	46			
5 - 30	60	50			

NOTE:

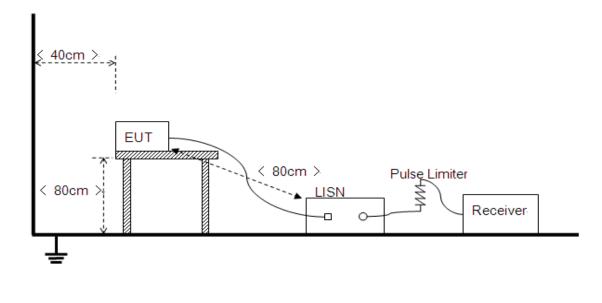
a) The limit subjects to the Class B digital device.

b) The lower limit shall apply at the band edges.

c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.1.2. Test Setup

Please refer to Annex A for the photographs of the Test Configuration.





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The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides $50\Omega/50\mu$ H of coupling impedance for the measuring instrument. A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

The power strip or extension cord has been investigated to make sure that the LISN integrity inma intained with respect to the impedance characteristics as prescribed in ANSI C63.4-2014 at Clause 4.3.

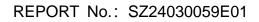
3.1.3. Test Result

Set RBW=9 kHz, VBW=30 kHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

The measurement results are obtained as below: E $[dB\mu V] = U_R[dB\mu V] + L_{Cable loss} [dB] + A_{Factor} [dB]$ U_R : Receiver Reading A_{Factor} : Voltage Division Factor of LISN $L_{Cable loss}$: Correction Factor Contains Pulse Limiter and Cable

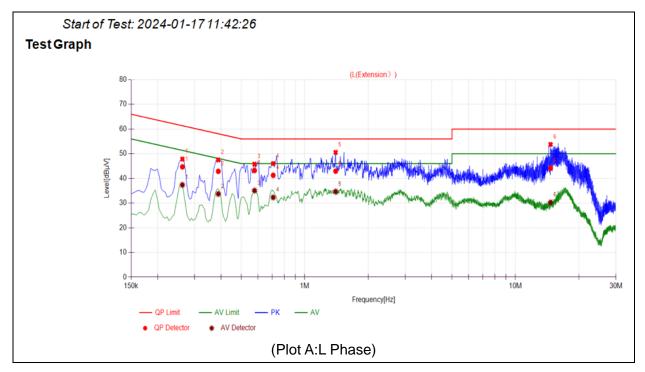
During the test, the total correction Factor $L_{Cable loss}$ and A_{Factor} were built in test software.







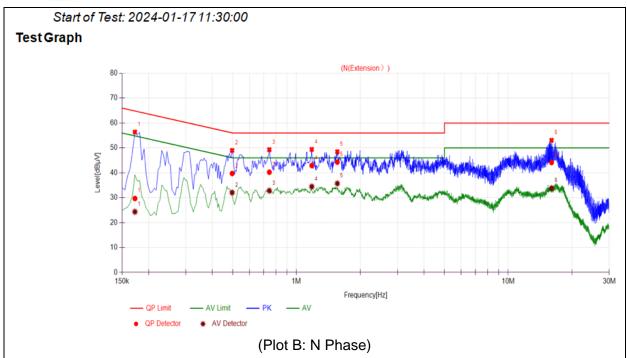
A. Test Plot and Suspicious Points:



No.	Fre.	. Emission Level (dBµV)		Limit (c	dBμV)	Power-line	Verdict
INO.	(MHz)	Quasi-peak	Average	Quasi-peak	Average	Power-line	verdict
1	0.2625	44.68	37.36	61.35	51.35		PASS
2	0.3885	42.87	33.71	58.10	48.10		PASS
3	0.5775	43.21	35.07	56.00	46.00	Line	PASS
4	0.7080	41.26	32.30	56.00	46.00	Line	PASS
5	1.4010	42.94	34.67	56.00	46.00		PASS
6	14.6860	44.14	30.26	60.00	50.00		PASS







No.	Fre.	Emission Level (dBµV)		Limit (c	lBμV)	Power-line	Verdict
NO.	(MHz)	Quasi-peak	Average	Quasi-peak	Average	Power-line	verdict
1	0.1725	29.69	24.35	64.84	54.84		PASS
2	0.4965	39.74	32.05	56.06	46.06		PASS
3	0.7440	40.26	32.81	56.00	46.00	Neutral	PASS
4	1.1806	42.94	34.45	56.00	46.00	Neutrai	PASS
5	1.5586	44.29	35.71	56.00	46.00		PASS
6	16.0178	44.16	33.78	60.00	50.00		PASS





3.2. Radiated Emission

3.2.1. Requirement

According to FCC section 15.109 (a), the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency	Field Strength Limitation at 3m Measurement Dist					
Range (MHz)	(μV/m)	(dBµV/m)				
30.0 - 88.0	100	20log 100				
88.0 - 216.0	150	20log 150				
216.0 - 960.0	200	20log 200				
Above 960.0	500	20log 500				

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

Note:

- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed indB μ V/m is calculated by 20log Emission Level(μ V/m).

3.2.2. Frequency Range of Measurement

According to 15.33(b)(1), the frequency range of radiated measurement for the EUT is listed in the following table:

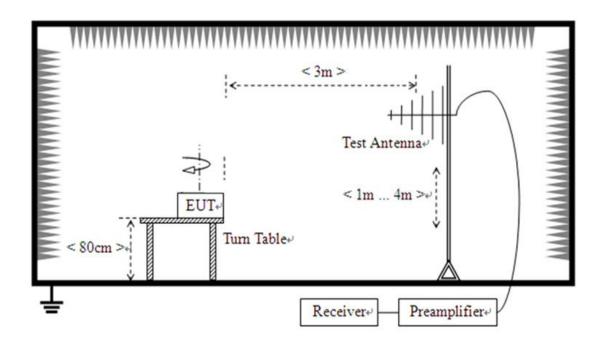
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measure- ment range (MHz)
Below 1.705 1.705–108 108–500 500–1000 Above 1000	30. 1000. 2000. 5000. 5th harmonic of the highest frequency or 40 GHz, whichever is lower.



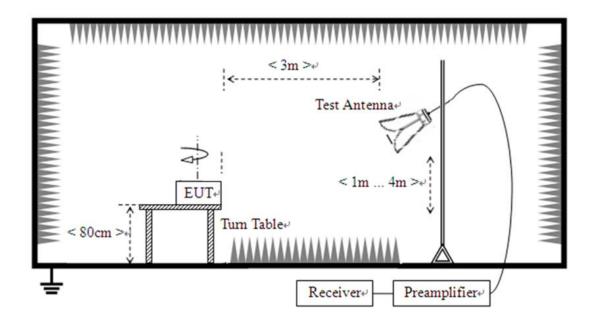


3.2.3. Test Setup

1) For radiated emissions from 30MHz to1GHz



2) For radiated emissions above 1GHz





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The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on variable-height antenna master tower.

For the test Antenna:

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz)are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

For measurements below 1GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video bandwidth is set to 3MHz for peak measurements and as applicable for average measurements.

3.2.4. Test Result

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of emissions which (6GHz-30GHz) are attenuated more than 20 dB below the permissible value need not be reported.

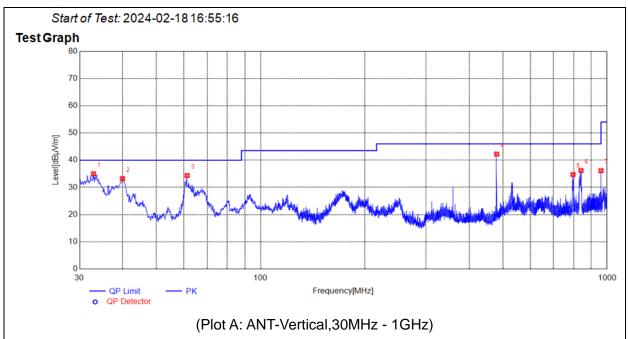
The measurement results are obtained as below: E $[dB\mu V/m] = U_R [dB\mu V] + A_T[dB] + A_{Factor} [dB]; A_T = L_{Cable loss} [dB] - G_{preamp} [dB]$ A_T : Total correction Factor except Antenna U_R : Receiver Reading G_{preamp} : Preamplifier Gain A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.







No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	32.9103	35.00	N.A	N.A	N.A	40.00	N.A	V	PASS
2	39.8950	33.21	N.A	N.A	N.A	40.00	N.A	V	PASS
3	61.3341	34.35	N.A	N.A	N.A	40.00	N.A	V	PASS
4	480.0280	42.23	N.A	N.A	N.A	46.00	N.A	V	PASS
5	797.1527	34.73	N.A	N.A	N.A	46.00	N.A	V	PASS
6	840.6131	36.20	N.A	N.A	N.A	46.00	N.A	V	PASS
7	960.0320	36.14	N.A	N.A	N.A	54.00	N.A	V	PASS

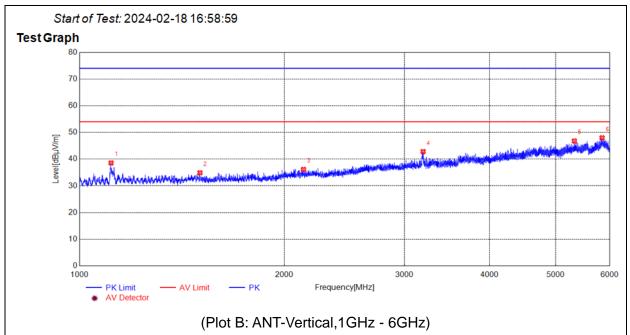


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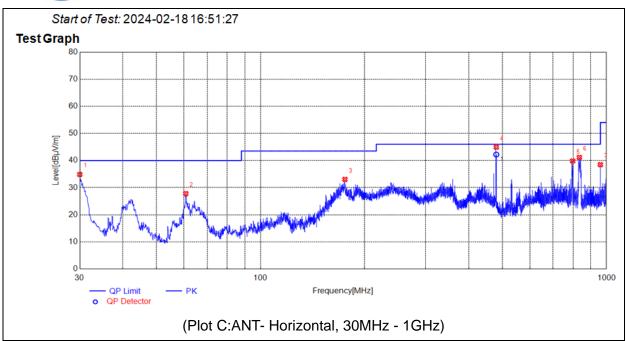


No.	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV	ANT	Verdict
NO.	MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	ANT	verdict
1	1113.0000	38.57	N.A	N.A	74.00	N.A	54.00	V	PASS
2	1503.0000	34.88	N.A	N.A	74.00	N.A	54.00	V	PASS
3	2133.0000	36.15	N.A	N.A	74.00	N.A	54.00	V	PASS
4	3195.5000	42.83	N.A	N.A	74.00	N.A	54.00	V	PASS
5	5328.0000	46.80	N.A	N.A	74.00	N.A	54.00	V	PASS
6	5851.0000	47.99	N.A	N.A	74.00	N.A	54.00	V	PASS



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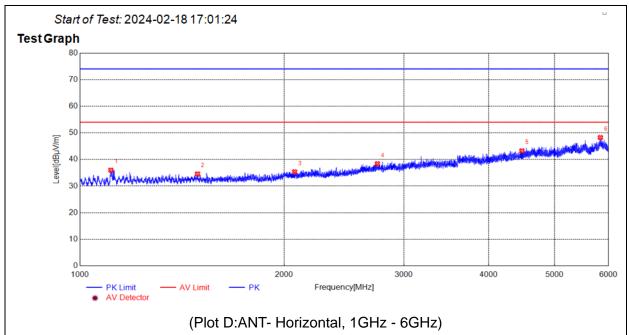


No.	Fre. MHz	PK dBµV/m	QP dBµV/m	AV dBµV/m	Limit-PK dBµV/m	Limit-QP dBµV/m	Limit-AV dBµV/m	ANT	Verdict
1	30.0000	34.85	N.A	N.A	N.A	40.00	N.A	Н	PASS
2	60.7521	27.80	N.A	N.A	N.A	40.00	N.A	Н	PASS
3	175.3205	33.04	N.A	N.A	N.A	43.50	N.A	Н	PASS
4	480.0280	44.92	42.20	N.A	N.A	46.00	N.A	Н	PASS
5	798.3168	39.85	N.A	N.A	N.A	46.00	N.A	Н	PASS
6	834.6955	41.15	N.A	N.A	N.A	46.00	N.A	Н	PASS
7	960.0320	38.48	N.A	N.A	N.A	54.00	N.A	Н	PASS



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No	Fre.	PK	QP	AV	Limit-PK	Limit-QP	Limit-AV		Verdict
No.	MHz	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	dBµV/m	ANT	verdict
1	1111.0000	35.95	N.A	N.A	74.00	N.A	54.00	н	PASS
2	1490.5000	34.53	N.A	N.A	74.00	N.A	54.00	Т	PASS
3	2071.5000	35.34	N.A	N.A	74.00	N.A	54.00	Н	PASS
4	2742.5000	38.37	N.A	N.A	74.00	N.A	54.00	Н	PASS
5	4476.5000	43.23	N.A	N.A	74.00	N.A	54.00	Н	PASS
6	5841.5000	48.24	N.A	N.A	74.00	N.A	54.00	Н	PASS





Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

Uncertainty of Conducted Emission Measurement

Measuring Uncertainty for	9kHz-150kHz	±3.3dB
a Level of Confidence of	150kHz-30MHz	±2.8dB
95%(U=2Uc(y))		

Uncertainty of Radiated Emission Measurement

Measuring Uncertainty for	30MHz-200MHz	±5.06dB
a Level of Confidence of	200MHz-1000MHz	±5.04dB
95%(U=2Uc(y))	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB





Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.			
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang			
	Road, Block 67, BaoAn District, ShenZhen, GuangDong			
	Province, P. R. China			
Telephone:	+86 755 36698555			
Facsimile:	+86 755 36698525			

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.			
	FL.3, Building A, FeiYang Science Park, No.8 LongChang			
Address:	Road, Block 67, BaoAn District, ShenZhen, GuangDong			
	Province, P. R. China			

3. Accreditation Certificate

Accredited Testing	The FCC designation number is CN1192.	
Laboratory:	Test firm registration number is 226174.	
	(Shenzhen Morlab Communications Technology Co., Ltd.)	

4. Test Software Utilized

Model	Version Number	Producer
TS+ -[JS32-RE]	Version 2.5.0.6	Tonscend
TS+ -[JS32-CE]	Version 2.5.0.0	Tonscend

5. Test Equipments Utilized

Description	Model	Serial No.	Manufacturer	Cal. Date	Due. Date
Bi-Log Antenna	VULB 9163	9163-519	SCHWARZBECK	2023/7/1	2024/6/30
Horn Antenna	BBHA 9120D	01774	SCHWARZBECK	2023/7/1	2024/6/30
Receiver	N9038A	MY541300 16	Agilent	2023/6/21	2024/6/20
6db Attenuator	BW-N6W5+	E191001	Mini-circuits	2023/9/19	2024/9/18
Preamplifier	S020180L3203	61171/611 72	LUCIX CORP.	2023/6/27	2024/6/26
Preamplifier	S10M100L3802	46732	LUCIX CORP.	2023/6/27	2024/6/26
Preamplifier	DCLNA0118-40	DS77209	Decentest	2023/7/4	2024/7/3



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	C-S				
RF Coaxial Cable	PE330	MRE001	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE002	Pasternack	N/A	N/A
RF Coaxial Cable	CLU18	MRE003	Pasternack	N/A	N/A
RF Coaxial Cable	QA360-40-KK- 0.5	22290045	Qualwave	N/A	N/A
RF Coaxial Cable	QA360-40-KKF -2	22290046	Qualwave	N/A	N/A
RF Coaxial Cable	QA500-18-NN- 5	22120181	Qualwave	N/A	N/A
RF Coaxial Cable	BNC	MRE04	Qualwave	N/A	N/A
Receiver	ESPI	101052	R&S	2023/6/21	2024/6/20
LISN	NSLK 8127	8127449	Schwarzbeck	2023/2/21	2024/2/20
10dB Pulse Limiter	VTSD 9561-F	VTSD 9561 F-B #206	SCHWARZBECK	2023/6/27	2024/6/26
System Simulator	CMW500	152038	R&S	2023/9/19	2024/9/18

6. Ancillary Equipment Utilized

Description	Manufacturer	Model	Serial No.
PC	DELL	P144G	20210357
PC adapter	DELL	HA65NM190	N/A
PC	DELL	VOSTRO 5370	DF2DR A01 DPC
PC adapter	DELL	LA45NM140	OKXTTW

_____ END OF REPORT

