



REPORT No.: SZ25080115W01

TEST REPORT

APPLICANT : Stayconnect LLC.

PRODUCT NAME : XPro, Legend

MODEL NAME : X Pro

SERIES MODEL : Legend

BRAND NAME : N/A

FCC ID : 2BRP2-XPRO

STANDARD(S) : 47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27, Subpart F&L&O

RECEIPT DATE : 2025-08-09

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Change History		
Version	Date	Reason for change
1.0	2025-09-28	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Stayconnect LLC.
Applicant Address:	28 Prestige Cir, Ste 1120, Allen, Texas, United States
Manufacturer:	Dongguan Jintai yi electronics co., ltd
ManufacturerAddress:	Room 1301, Building 1, Oufei Photoelectric Imaging Industry Research Center, No.2 Huahai Road, marina bay New District, Dongguan City, Guangdong Province

1.2. Equipment Under Test (EUT) Description

Product Name:	XPro, Legend	
Hardware Version:	N/A	
Software Version:	N/A	
IMEI:	860495042811423	
Modulation Type:	DFT-s-OFDM	PI/2 BPSK, QPSK, 16QAM,64QAM,256QAM
	CP-OFDM	QPSK, 16QAM,64QAM,256QAM
Operation Band:	N2, N75 N12, N25, N41, N66	
Frequency Range:	N2	Tx: 1850MHz-1910MHz
		Rx: 1930MHz-1990MHz
	N5	Tx: 824MHz-849MHz
		Rx: 869MHz-894MHz
	N12	Tx: 699MHz-716MHz
		Rx: 729MHz-746MHz
	N25	Tx: 1850MHz-1915MHz
		Rx: 1930MHz-1990MHz
	N41	Tx: 2496MHz-2690MHz
		Rx: 2496MHz-2690MHz
	N66	Tx: 1710MHz-1780MHz
		Rx: 2110MHz-2200MHz
Channel Bandwidth	N2	5MHz, 10MHz, 15MHz, 20MHz
	N5	5MHz, 10MHz, 15MHz, 20MHz
	N12	5MHz, 10MHz, 15MHz



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	N25	5MHz, 10MHz, 15MHz, 20MHz
	N41	10MHz, 20MHz, 30MHz, 40MHz, 50MHz, 60MHz, 80MHz, 90MHz, 100MHz
	N66	5MHz, 10MHz, 15MHz, 20MHz, 30MHz, 40MHz
Antenna Type:	FPC antenna	
Antenna Gain:	N2	3.55dBi
	N5	-1.12dBi
	N12	-4.21Bi
	N25	3.55dBi
	N41	3.47dBi
	N66	4.30dBi

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. Maximum ERP/EIRP and Emission Designator

N2	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.427	0.427	0.372	0.261	0.163	0.308
15	0.424	/	/	/	/	/
10	0.405	/	/	/	/	/
5	0.349	/	/	/	/	/

N2	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	17M9G7D	18M0G7D	18M0W7D	17M9D7W	18M0D7W	19M0G7D
15	13M5G7D	13M5G7D	13M5W7D	13M5D7W	13M5D7W	14M2G7D
10	8M90G7D	8M92G7D	8M92W7D	8M90D7W	8M92D7W	9M28G7D
5	4M48G7D	4M50G7D	4M49W7D	4M48D7W	4M50D7W	4M50G7D

N5	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.122	0.122	0.120	0.073	0.044	0.086
15	0.122	/	/	/	/	/
10	0.123	/	/	/	/	/
5	0.126	/	/	/	/	/

N5	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	17M9G7D	17M9G7D	17M8W7D	17M9D7W	17M9D7W	18M9G7D
15	13M4G7D	13M4G7D	13M5W7D	13M4D7W	13M4D7W	14M1G7D
10	8M91G7D	8M93G7D	8M93W7D	8M93D7W	8M93D7W	9M27G7D
5	4M48G7D	4M49G7D	4M48W7D	4M49D7W	4M49D7W	4M48G7D



N12	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
15	0.055	0.056	0.044	0.033	0.022	0.038
10	0.054	/	/	/	/	/
5	0.056	/	/	/	/	/

N12	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
15	13M4G7D	13M4G7D	13M4W7D	13M4D7W	13M4D7W	14M1G7D
10	8M91G7D	8M91G7D	8M93W7D	8M91D7W	8M91D7W	9M27G7D
5	4M49G7D	4M49G7D	4M47W7D	4M46D7W	4M46D7W	4M47G7D

N25	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	0.516	0.504	0.403	0.297	0.189	0.380
15	0.506	/	/	/	/	/
10	0.492	/	/	/	/	/
5	0.473	/	/	/	/	/

N25	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
20	18M0G7D	17M9G7D	18M0W7D	17M9D7W	18M0D7W	19M0G7D
15	13M5G7D	13M5G7D	13M5W7D	13M5D7W	13M5D7W	14M2G7D
10	8M90G7D	8M94G7D	8M92W7D	8M92D7W	8M92D7W	9M26G7D
5	4M49G7D	4M49G7D	4M50W7D	4M50D7W	4M51D7W	4M50G7D



N41	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	0.746	0.791	0.594	0.446	0.283	0.585
90	0.733	/	/	/	/	/
80	0.750	/	/	/	/	/
60	0.711	/	/	/	/	/
50	0.690	/	/	/	/	/
40	0.689	/	/	/	/	/
30	0.673	/	/	/	/	/
20	0.676	/	/	/	/	/
10	0.550	/	/	/	/	/

N41	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
100	96M3G7D	96M3G7D	96M1W7D	96M3D7W	96M3D7W	97M3G7D
90	85M6G7D	85M8G7D	85M6W7D	85M8D7W	85M8D7W	87M6G7D
80	77M0G7D	77M2G7D	77M0W7D	77M0D7W	77M0D7W	77M2G7D
60	57M7G7D	57M7G7D	57M8W7D	57M8D7W	57M8D7W	57M7G7D
50	45M6G7D	45M8G7D	45M7W7D	45M7D7W	45M8D7W	47M6G7D
40	35M8G7D	35M7G7D	35M9W7D	35M7D7W	35M6D7W	37M9G7D
30	26M6G7D	26M8G7D	26M8W7D	26M9D7W	26M9D7W	27M9G7D
20	17M9G7D	17M9G7D	17M8W7D	17M8D7W	17M7D7W	18M2G7D
10	8M57G7D	8M59G7D	8M59W7D	8M57D7W	8M55D7W	8M57G7D

N66	Maximum ERP/EIRP (W)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
40	0.440	0.589	0.497	0.364	0.156	0.312
30	0.411	/	/	/	/	/
20	0.440	/	/	/	/	/
15	0.415	/	/	/	/	/



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10	0.406	/	/	/	/	/
5	0.604	/	/	/	/	/

N66	Emission Designator (99%OBW)					
	DFT-s-OFDM					CP-OFDM
BW(MHz)	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	QPSK
40	38M5G7D	38M5G7D	38M6W7D	38M5D7W	38M4D7W	38M6G7D
30	28M5G7D	28M7G7D	28M7W7D	28M6D7W	28M6D7W	28M6G7D
20	17M9G7D	17M9G7D	17M9W7D	17M9D7W	17M9D7W	18M9D7D
15	13M4G7D	13M4G7D	13M4W7D	13M4D7W	13M5D7W	14M1G7D
10	8M89G7D	8M93G7D	8M95W7D	8M93D7W	8M92D7W	9M29G7D
5	4M47G7D	4M49G7D	4M50W7D	4M46D7W	4M45D7W	4M47G7D

1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22	Public Mobile Services
3	47 CFR Part 24	Personal Communications Services
4	47 CFR Part 27	Miscellaneous Wireless Communications Services



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

Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
2.1046,27.50(d)(4) 22.913(a)(2) 24.232(c) 27.50(d)(4)	Transmitter Conducted Output Power and ERP/EIRP	Aug 09 to Sep 26,2025	Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Aug 09 to Sep 26,2025	Gan Jing	PASS	No deviation
2.1055 22.355 24.235 27.54	Frequency Stability	Aug 09 to Sep 26,2025	Gan Jing	PASS	No deviation
24.232(d) 27.50(d)(5) 27.50(j)(4)	Peak to Average Radio	Aug 09 to Sep 26,2025	Gan Jing	PASS	No deviation
2.1051, 22.917(a) 24.238(a) 27.53(m)(4)	Conducted Spurious Emissions	Aug 09 to Sep 26,2025	Gan Jing	PASS	No deviation
2.1051, 22.917(a) 24.238(a) 27.53(m)(4)	Band Edge	Aug 09 to Sep 26,2025	Gan Jing	PASS	No deviation
2.1051, 22.917(a) 24.238(a) 27.53(m)(4)	Radiated Spurious Emissions	Aug 09 to Sep 26,2025	Wang Deyong	PASS	No deviation

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 26.5dB contains two parts that cable loss 16.5dB and Attenuator 10dB.



1.5. Environmental Conditions

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

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



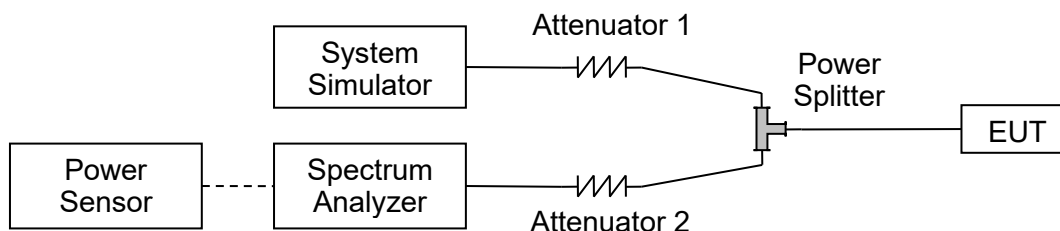
2.1. Transmitter Conducted Output Power And ERP/EIRP

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 27.50 (h)(2) for N41, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

$$\text{EIRP (dBm)} = \text{Conducted Output Power (dBm)} + \text{Antenna Gain (dBi)}$$

$$\text{ERP (dBm)} = \text{EI PR (dBm)} - 2.15$$



2.1.4. Result

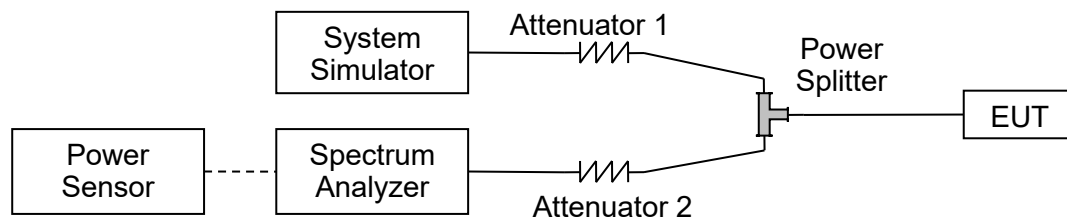
The test data please refer to Appendix: 5GNR n2 of SZ25080115W01, Appendix: 5GNR n5 of SZ25080115W01, Appendix: 5GNR n12 of SZ25080115W01, Appendix: 5GNR n25 of SZ25080115W01, Appendix: 5GNR n41 of SZ25080115W01, Appendix: 5GNR n66 of SZ25080115W01

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

2.2.4. Test Result

The test data please refer to Appendix: 5GNR n2 of SZ25080115W01, Appendix: 5GNR n5 of SZ25080115W01, Appendix: 5GNR n12 of SZ25080115W01, Appendix: 5GNR n25 of SZ25080115W01, Appendix: 5GNR n41 of SZ25080115W01, Appendix: 5GNR n66 of SZ25080115W01

2.3. Frequency Stability

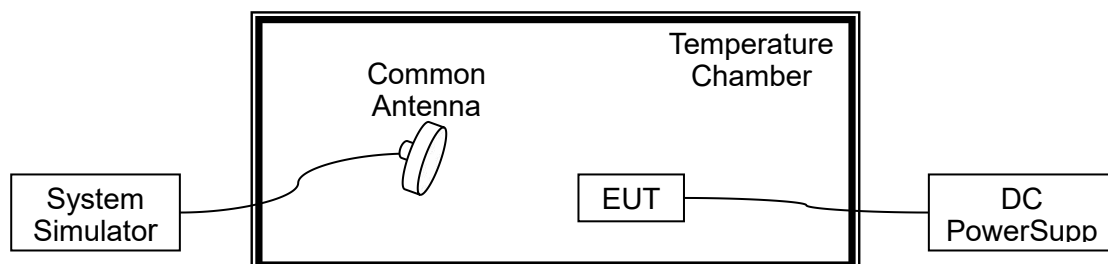
2.3.1. Requirement

According to FCC section 2.1055 & 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 0°C to 45°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.



2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.8VDC, 4.2VDC and 3.6VDC, which are specified by the applicant; the normal temperature here used is 20°C.

The test data please refer to Appendix: 5GNR n2 of SZ25080115W01, Appendix: 5GNR n5 of SZ25080115W01, Appendix: 5GNR n12 of SZ25080115W01, Appendix: 5GNR n25 of SZ25080115W01, Appendix: 5GNR n41 of SZ25080115W01, Appendix: 5GNR n66 of SZ25080115W01

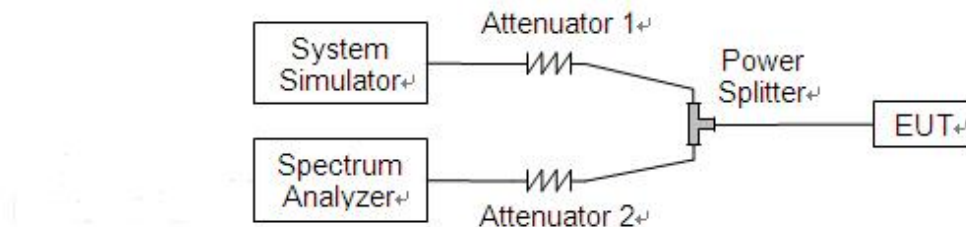
2.4. Peak to Average Ratio

2.4.1. Requirement

According to FCC section 24.232(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

2.4.2. Test Description

Test Set:



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.4.3. Test procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.

The test data please refer to Appendix: 5GNR n2 of SZ25080115W01, Appendix: 5GNR n5 of SZ25080115W01, Appendix: 5GNR n12 of SZ25080115W01, Appendix: 5GNR n25 of SZ25080115W01, Appendix: 5GNR n41 of SZ25080115W01, Appendix: 5GNR n66 of SZ25080115W01

2.5. Conducted Spurious Emissions

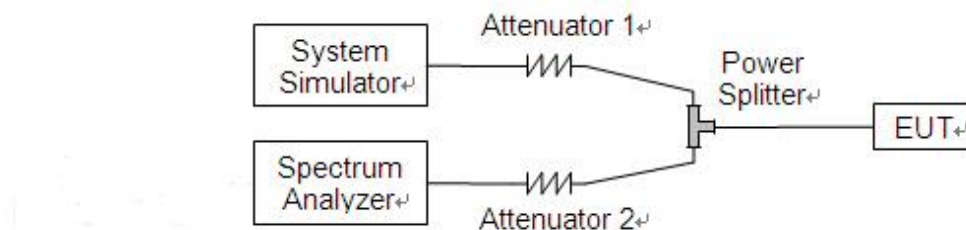
2.5.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

Additional requirement for N41:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result

The test data please refer to Appendix: 5GNR n2 of SZ25080115W01, Appendix: 5GNR n5 of SZ25080115W01, Appendix: 5GNR n12 of SZ25080115W01, Appendix: 5GNR n25 of SZ25080115W01, Appendix: 5GNR n41 of SZ25080115W01, Appendix: 5GNR n66 of SZ25080115W01



2.6. Band Edge

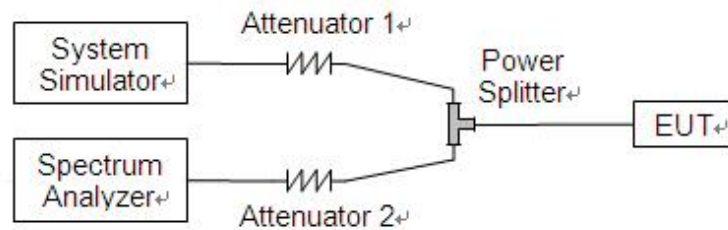
2.6.1. Requirement

According to FCC section 22.917(a), 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.

N41

According to FCC section 27.53(m) (4), for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

2.6.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.6.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

The test data please refer to Appendix: 5GNR n2 of SZ25080115W01, Appendix: 5GNR n5 of SZ25080115W01, Appendix: 5GNR n12 of SZ25080115W01, Appendix: 5GNR n25 of SZ25080115W01, Appendix: 5GNR n41 of SZ25080115W01, Appendix: 5GNR n66 of SZ25080115W01

2.7. Radiated Spurious Emissions

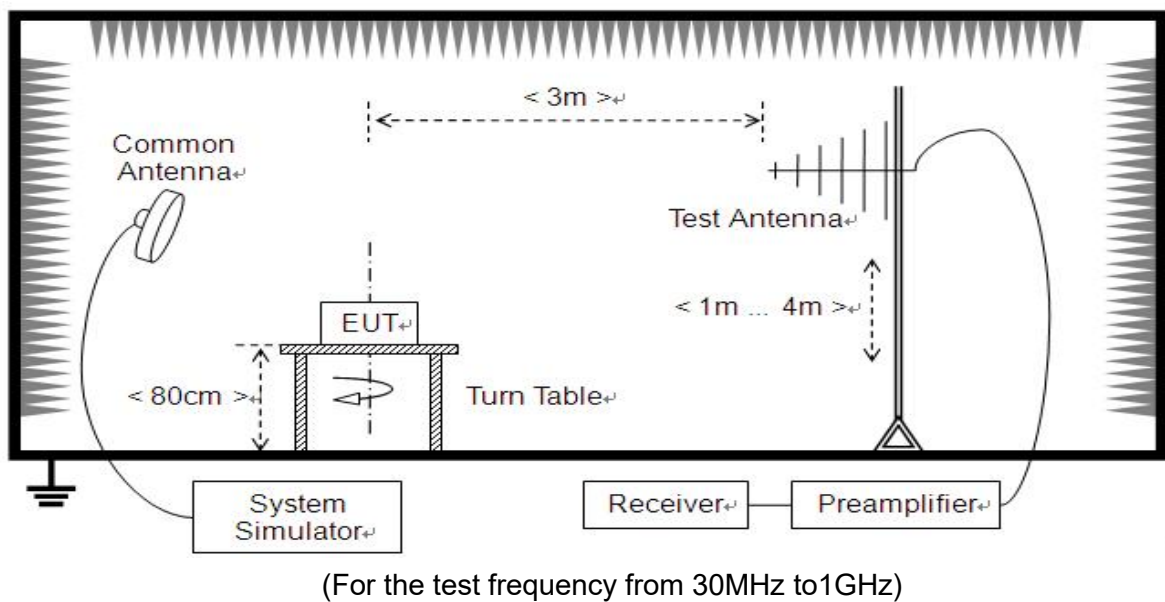
2.7.1. Requirement

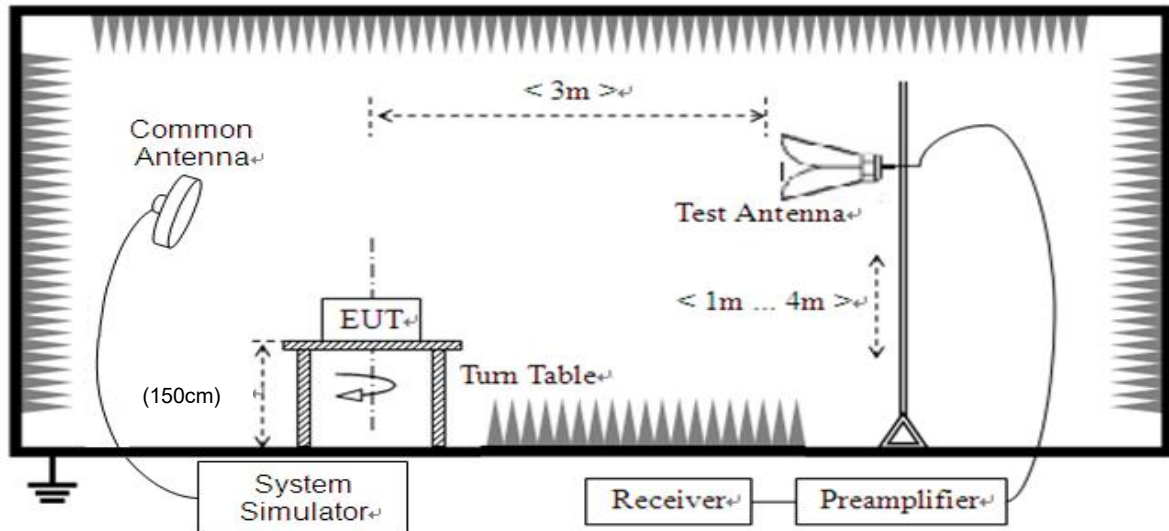
According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This calculated to be -13dBm.

Additional requirement for NR Band n41:

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 $55 + 10 \log(P)$ dB. This calculated to be -25dBm.

2.7.2. Test Description





(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

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 and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.7.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.



2.7.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of A_{TOT} .

Note1: The power of the EUT transmitting frequency should be ignored.

Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

**Measurement Data:**

Remark: Only the worst case data was recorded in the report.

Mode	5GNR	Remark	/
Band	n2 BW=20MHz	Channel	376000

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	37.6486	150	190	-58.58	-13	45.58	PASS	Horizontal
2	80.3968	150	324	-62.29	-13	49.29	PASS	Horizontal
3	375.6613	150	310	-57.12	-13	44.12	PASS	Horizontal
4	1709.3807	150	221	-57.82	-13	44.82	PASS	Horizontal
5	6915.7974	150	139	-54.83	-13	41.83	PASS	Horizontal
6	9750.8254	150	220	-51.75	-13	38.75	PASS	Horizontal
7	37.4306	150	256	-56.58	-13	43.58	PASS	Vertical
8	59.1000	150	235	-54.03	-13	41.03	PASS	Vertical
9	375.1624	150	289	-58.13	-13	45.13	PASS	Vertical
10	1680.6488	150	56	-56.15	-13	43.15	PASS	Vertical
11	5002.7096	150	3	-54.29	-13	41.29	PASS	Vertical
12	9175.5777	150	74	-52.47	-13	39.47	PASS	Vertical



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Mode	5GNR	Remark	/
Band	N5 BW=20MHz	Channel	167300

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	38.0484	150	191	-57.77	-13	44.77	PASS	Horizontal
2	80.2861	150	323	-63.12	-13	50.12	PASS	Horizontal
3	375.1371	150	310	-57.00	-13	44.00	PASS	Horizontal
4	1709.1000	150	221	-58.05	-13	45.05	PASS	Horizontal
5	6915.7870	150	138	-54.06	-13	41.06	PASS	Horizontal
6	9749.9791	150	220	-52.24	-13	39.24	PASS	Horizontal
7	37.5096	150	255	-56.58	-13	43.58	PASS	Vertical
8	58.6507	150	236	-54.79	-13	41.79	PASS	Vertical
9	375.6366	150	289	-58.38	-13	45.38	PASS	Vertical
10	1680.8034	150	55	-56.56	-13	43.56	PASS	Vertical
11	5002.7802	150	4	-53.94	-13	40.94	PASS	Vertical
12	9176.2298	150	74	-52.58	-13	39.58	PASS	Vertical



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Mode	5GNR	Remark	/
Band	N12 BW=20MHz	Channel	141500

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	37.4958	150	190	-57.70	-13	44.70	PASS	Horizontal
2	81.0134	150	324	-62.14	-13	49.14	PASS	Horizontal
3	375.3498	150	309	-57.59	-13	44.59	PASS	Horizontal
4	1708.9846	150	220	-58.34	-13	45.34	PASS	Horizontal
5	6915.6100	150	139	-54.09	-13	41.09	PASS	Horizontal
6	9750.9067	150	221	-52.28	-13	39.28	PASS	Horizontal
7	37.6450	150	255	-55.96	-13	42.96	PASS	Vertical
8	58.8580	150	235	-53.98	-13	40.98	PASS	Vertical
9	375.4524	150	290	-58.59	-13	45.59	PASS	Vertical
10	1680.8227	150	56	-56.61	-13	43.61	PASS	Vertical
11	5002.6106	150	4	-54.31	-13	41.31	PASS	Vertical
12	9176.0595	150	74	-52.73	-13	39.73	PASS	Vertical



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Mode	5GNR	Remark	/
Band	N25 BW=20MHz	Channel	376500

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	37.6355	150	191	-58.15	-13	45.15	PASS	Horizontal
2	80.4201	150	324	-62.42	-13	49.42	PASS	Horizontal
3	375.8970	150	310	-56.98	-13	43.98	PASS	Horizontal
4	1708.6245	150	220	-58.41	-13	45.41	PASS	Horizontal
5	6916.0829	150	139	-54.07	-13	41.07	PASS	Horizontal
6	9750.7775	150	220	-51.56	-13	38.56	PASS	Horizontal
7	37.2477	150	256	-55.84	-13	42.84	PASS	Vertical
8	59.2044	150	235	-54.12	-13	41.12	PASS	Vertical
9	375.9321	150	290	-57.92	-13	44.92	PASS	Vertical
10	1680.7579	150	56	-56.73	-13	43.73	PASS	Vertical
11	5003.1917	150	4	-54.34	-13	41.34	PASS	Vertical
12	9176.2439	150	73	-52.14	-13	39.14	PASS	Vertical



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Mode	5GNR	Remark	/
Band	N41 BW=20MHz	Channel	518601

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	37.9349	150	191	-58.00	-13	45.00	PASS	Horizontal
2	80.1792	150	324	-62.71	-13	49.71	PASS	Horizontal
3	375.1711	150	310	-57.56	-13	44.56	PASS	Horizontal
4	1708.6389	150	220	-58.17	-13	45.17	PASS	Horizontal
5	6915.9306	150	139	-54.07	-13	41.07	PASS	Horizontal
6	9750.4328	150	221	-51.81	-13	38.81	PASS	Horizontal
7	37.4302	150	256	-56.62	-13	43.62	PASS	Vertical
8	58.6870	150	236	-54.72	-13	41.72	PASS	Vertical
9	375.4077	150	289	-57.94	-13	44.94	PASS	Vertical
10	1680.8367	150	56	-56.23	-13	43.23	PASS	Vertical
11	5002.9635	150	3	-54.51	-13	41.51	PASS	Vertical
12	9175.7232	150	74	-52.73	-13	39.73	PASS	Vertical



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Mode	5GNR	Remark	/
Band	N66 BW=20MHz	Channel	349000

Suspected List								
NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	37.4921	150	191	-58.09	-13	45.09	PASS	Horizontal
2	80.8078	150	324	-62.88	-13	49.88	PASS	Horizontal
3	375.4979	150	309	-57.68	-13	44.68	PASS	Horizontal
4	1708.7873	150	221	-58.79	-13	45.79	PASS	Horizontal
5	6915.8813	150	139	-54.03	-13	41.03	PASS	Horizontal
6	9750.8890	150	221	-52.24	-13	39.24	PASS	Horizontal
7	36.9937	150	256	-56.66	-13	43.66	PASS	Vertical
8	58.7645	150	236	-54.10	-13	41.10	PASS	Vertical
9	375.6314	150	289	-58.84	-13	45.84	PASS	Vertical
10	1680.8815	150	55	-56.65	-13	43.65	PASS	Vertical
11	5002.7617	150	4	-54.01	-13	41.01	PASS	Vertical
12	9175.8453	150	74	-52.89	-13	39.89	PASS	Vertical



Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

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

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



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4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	NW521	1506A	Weinschel	N/A	N/A
Directional Coupler (10-67GHz)	N/A	110067016	KRYTAR	N/A	N/A
Attenuator	N/A	20dB	Resnet	N/A	N/A
Attenuator (DC-40GHz)	N/A	10dB	RFTOP	N/A	N/A
EXA Signal Analyzer	MY54170556	N9030A	Keysight	2024.09.18	2025.09.17
System Simulator	6262012906	MT8000A	Anritsu	2025.05.16	2026.05.15
System Simulator	6261830572	MT8821C	Anritsu	2025.01.06	2026.01.05
System Simulator	MY58300665	E7515B	Anritsu	2024.09.18	2025.09.17
Spectrum Analyzer	101200	FSVS3044	R&S	2024.09.18	2025.09.17
Spectrum Analyzer	101509	FSV40	R&S	2024.09.18	2025.09.17
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
RF cable (DC-40GHz)	N/A	NYK360	Qualwave	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Temperature Chamber	S02217710100089001	KMT-36LF1A0	KOMEG	2024.09.18	2025.09.17
Computer	T430i	Think Pad	Lenovo	N/A	N/A
Test system	N/A	WCS FCC V22.02.041801	CeSheng	N/A	N/A

**4.2 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Bi-Log Antenna	9163-274	VULB 9163	SCHWARZBECK	2025/6/28	2026/6/27
Bi-Log Antenna	9163-519	VULB 9163	SCHWARZBECK	2025/6/20	2026/6/19
Horn Antenna	9120D-963	BBHA 9120D	SCHWARZBECK	2025/5/16	2026/5/15
Horn Antenna	01774	BBHA 9120D	SCHWARZBECK	2025/6/20	2026/6/19
Horn Antenna	BBHA9170#773	BBHA9170	SCHWARZBECK	2025/6/20	2026/6/19
Receiver	MY54130016	N9038A	Agilent	2025/1/10	2026/1/9
Receiver	MY56400093	N9038A	KEYSIGHT	2025/1/6	2026/1/5
Signal Analyzer	MY56060145	N9020A	Agilent	2025/5/13	2026/5/12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2025/5/13	2026/5/12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025/5/13	2026/5/12
System Simulator	152038	CMW500	R&S	2024/9/11	2025/9/10
System Simulator	MY48364176	8960-E5515C	Agilent	2025/1/15	2026/1/14
System Simulator	6262148249	MT8000A	anritsu	2025/5/16	2026/5/15
System Simulator	6261830572	MT8821C	anritsu	2025/1/6	2026/1/5
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025/5/13	2026/5/12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025/5/13	2026/5/12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025/5/13	2026/5/12



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RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2024/9/11	2025/9/10
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2024/9/11	2025/9/10
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2024/9/11	2025/9/10

_____ END OF REPORT _____