FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2603-1, XT2603-2
FCC ID	:	IHDT56AW1
STANDARD	:	47 CFR Part 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Nov. 04, 2025 ~ Nov. 11, 2025

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG591906M	Rev. 01	Initial issue of report	Dec. 05, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	—	Report only	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	—	Report only	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log$_{10}$(P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log$_{10}$(P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 40.35 dB at 2472.00 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2603-1, XT2603-2
FCC ID	IHDT56AW1
IMEI Code	Conducted: 350158880029535/350158880029543 Radiation: 350158880029097
HW Version	DVT2
SW Version	W2WV36.22
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two kinds of EUT, the sample 1(XT2603-2) is P-SIM + eSIM and the sample 2(XT2603-1) is P-SIM +P-SIM. According to the difference, we choose sample 1 to full test.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	814 ~ 824 MHz
Rx Frequency	859 ~ 869 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
SCS	15kHz
Antenna Gain	<ANT0>:-4.1 dBi <ANT1>:-5.6 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Note:

1. Only maximum conducted Power of Ant.0 is shown in the report.
2. 5G NR n26 only support SA mode.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum Conducted Power and Emission Designator

5G NR n26		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	816.5 ~ 821.5	0.2958	4M47G7D	0.1832	4M47W7D
10	819	0.2985	9M26G7D	0.1832	9M28W7D
15	821.5	0.3006	14M1G7D	0.1824	14M1W7D
20	824	0.3027	18M9G7D	0.1795	18M9W7D

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616

1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r02

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.10 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-901
AC Adapter 1(EU)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-902
AC Adapter 1(UK)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-903
AC Adapter 1(AU)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-905
AC Adapter 1(AR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-906
AC Adapter 1(BR)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-907
AC Adapter 1(CHILE)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-909
AC Adapter 2(US)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-901
AC Adapter 2(EU)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-902
AC Adapter 2(UK)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-903
AC Adapter 2(AU)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-905
AC Adapter 2(AR)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-906
AC Adapter 2(BR)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-907
AC Adapter 2(CHILE)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-909
AC Adapter 3(IN)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-904
AC Adapter 3(IN Local)	**Brand Name**	Motorola(AOHAI)	**Model Name**	MC-904
AC Adapter 4(IN Local)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-904
AC Adapter 4(IN)	**Brand Name**	Motorola(Salcomp)	**Model Name**	MC-904
Battery	**Brand Name**	Motorola (ATL)	**Model Name**	SR52
USB Cable 1	**Brand Name**	Motorola(SAIBAO)	**Model Name**	SC18D71644
USB Cable 2	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18E08104
USB Cable 3	**Brand Name**	Motorola(SAIBAO)	**Model Name**	SC18D86731
USB Cable 4	**Brand Name**	Motorola(Luxshare)	**Model Name**	SC18E08103
USB Cable 5	**Brand Name**	Motorola(SAIBAO)	**Model Name**	SC18E46326
USB Cable 6	**Brand Name**	Motorola(SAIBAO)	**Model Name**	SC18E59082
Magnetic Protective Cover	**Brand Name**	Motorola(Topwell)	**Model Name**	SS68E96654
Stylus	**Brand Name**	Motorola(Maxeye)	**Model Name**	XT2604-1

2 Test Configuration of Equipment Under Test

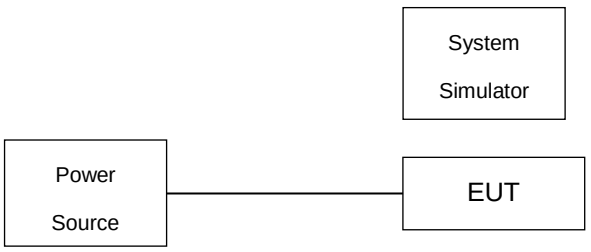
2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz. (Y Plane)

Test Items	Band	Bandwidth (MHz)				Modulation					RB #			Test Channel		
		5	10	15	20	PI/2 BPSK	QPSK	16QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	n26	v	v	v	v	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	n26	v	v	v	v		v	v					v		v	
Emission masks In-band emissions	n26	v				v	v				v		v	v		v
			v		v	v	v				v		v		v	
Emission masks – Out of band emissions	n26	v				v	v				v			v	v	v
	n26		v		v	v	v				v				v	
Frequency Stability	n26				v		v						v		v	
Radiated Spurious Emission	n26	Worst Case													v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. 5G n26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. 4. Frequency Stability：Normal Voltage = 3.74V ；Low Voltage =3.40V.；High Voltage =4.53V															

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the 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.

The following shows an offset computation example with RF cable loss 0.6 dB and a 20dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 0.6 + 20 = 20.6 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n26 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	164800	-	-
	Frequency	824	-	-
15	Channel	164300	-	-
	Frequency	821.5	-	-
10	Channel	-	163800	-
	Frequency	-	819	-
5	Channel	163300	163800	164300
	Frequency	816.5	819	821.5

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

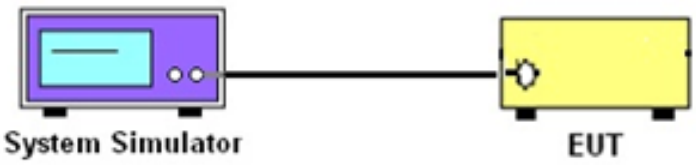
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

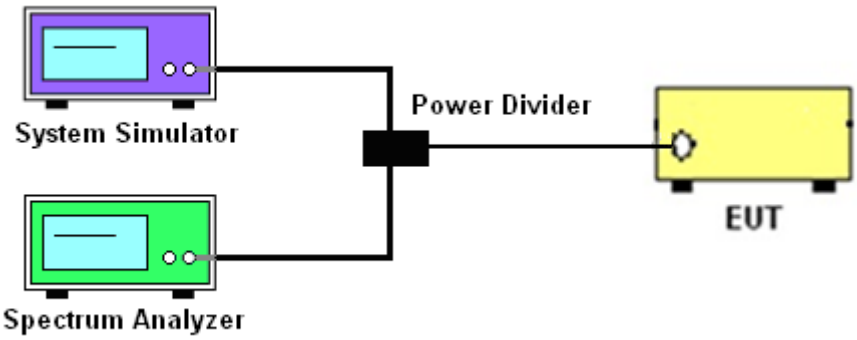
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

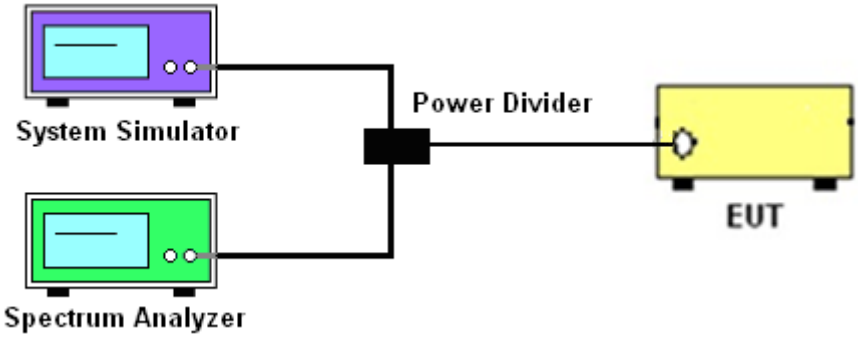
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

3.4 Emissions Mask – Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

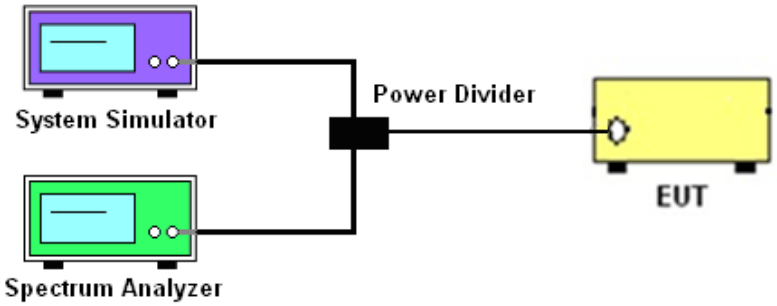
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43+10\log_{10}(P[Watts])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

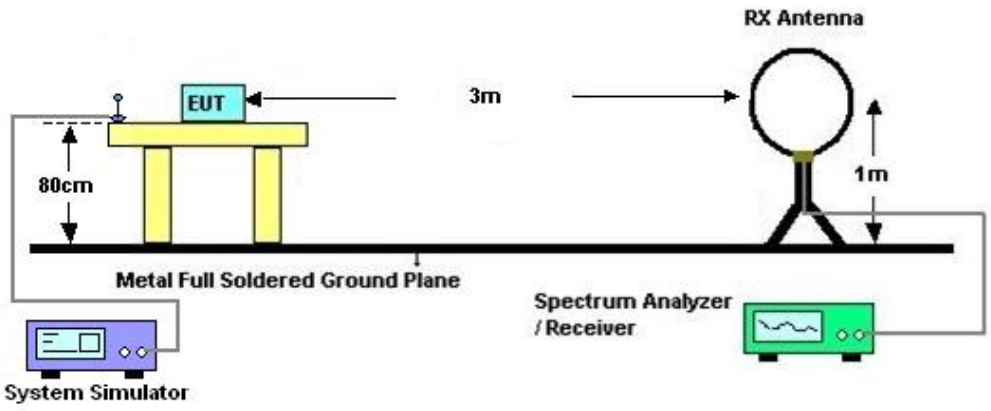
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

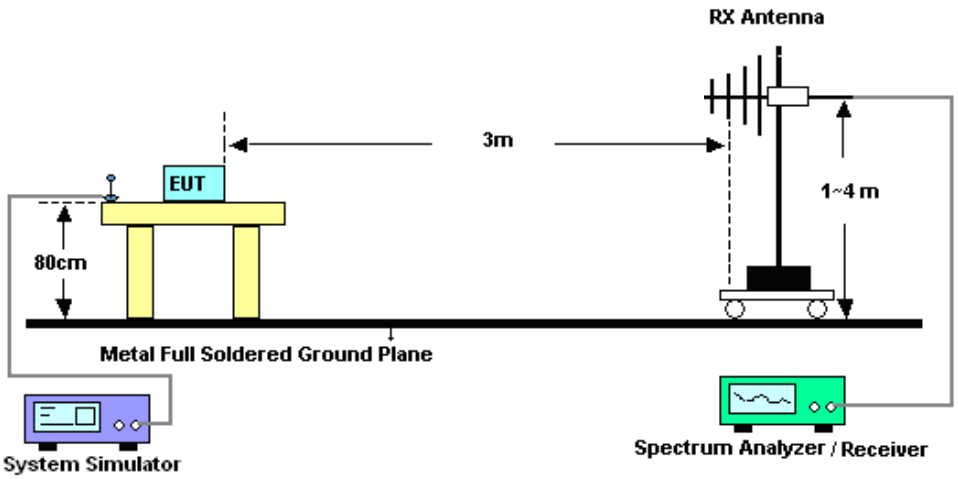
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

3.5.4 Test Setup

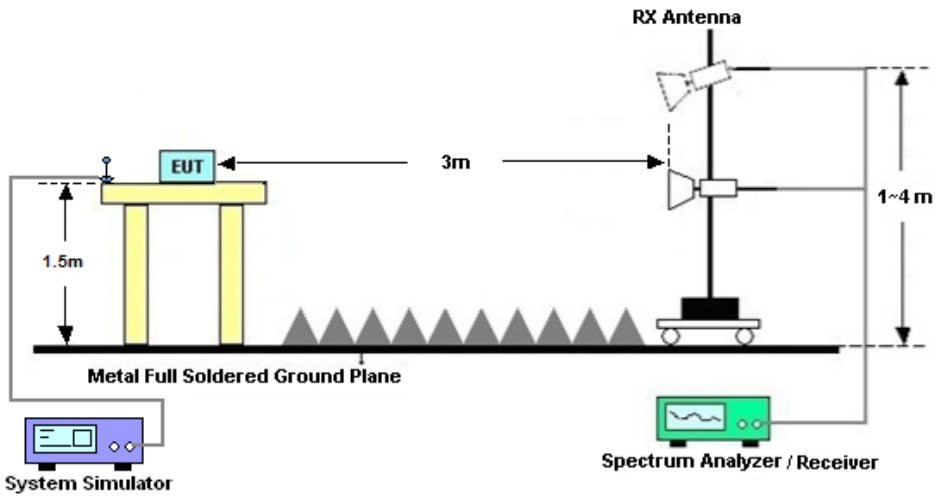
For radiated test from 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

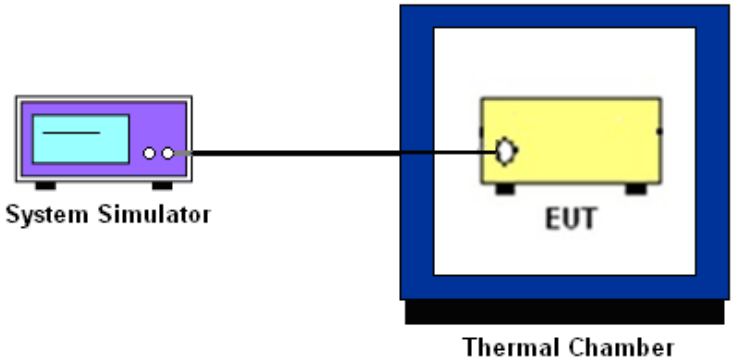
3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.6.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
4. battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Dec. 03, 2024	Nov. 11, 2025	Dec. 02, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Nov. 11, 2025	Aug. 09, 2026	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 23, 2024	Nov. 11, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 22, 2025	Nov. 11, 2025	Aug. 21, 2026	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 21, 2025	Nov. 11, 2025	Oct. 20, 2026	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 02, 2025	Nov. 11, 2025	Jul. 01, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 03, 2025	Nov. 11, 2025	Jan. 02, 2026	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Sep. 19, 2025	Nov. 11, 2025	Sep. 18, 2026	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 11, 2025	Nov. 11, 2025	Oct. 10, 2026	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 11, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 11, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 11, 2025	NCR	Radiation (03CH04-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Nov. 04, 2025	Jul. 06, 2026	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Nov. 04, 2025	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 02, 2025	Nov. 04, 2025	Jul. 01, 2026	Conducted (TH01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	**±2.00 dB**
Occupied Channel Bandwidth	**±0.384%**
Conducted Power	**±0.90 dB**
Peak to Average Ratio	**±0.90 dB**
Frequency Stability	**±0.38 ppm**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.83dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.83dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.82dB**

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Test Engineer :	Smile Wang	**Temperature :**	22~23℃
		Relative Humidity :	40~42%

FR1 N26_ANT0

Transmitter Conducted Output Power

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)
26	15	5	163300	816.5	DFT-s-OFDM PI/2 BPSK	1@1	24.70
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@1	24.67
26	15	5	163300	816.5	DFT-s-OFDM 16 QAM	1@1	22.63
26	15	5	163800	819	DFT-s-OFDM PI/2 BPSK	1@1	24.60
26	15	5	163800	819	DFT-s-OFDM QPSK	1@1	24.67
26	15	5	163800	819	DFT-s-OFDM 16 QAM	1@1	22.50
26	15	5	164300	821.5	DFT-s-OFDM PI/2 BPSK	1@1	24.66
26	15	5	164300	821.5	DFT-s-OFDM QPSK	1@1	24.71
26	15	5	164300	821.5	DFT-s-OFDM 16 QAM	1@1	22.45
26	15	10	163800	819	DFT-s-OFDM PI/2 BPSK	1@1	24.75
26	15	10	163800	819	DFT-s-OFDM QPSK	1@1	24.75
26	15	10	163800	819	DFT-s-OFDM 16 QAM	1@1	22.63
26	15	15	164300	821.5	DFT-s-OFDM PI/2 BPSK	1@1	24.78
26	15	15	164300	821.5	DFT-s-OFDM QPSK	1@1	24.70
26	15	15	164300	821.5	DFT-s-OFDM 16 QAM	1@1	22.61
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@1	24.74
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@0	22.83
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@104	24.63
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	2@0	22.93
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	50@25	24.77
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	2@104	22.92
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	100@0	22.98
26	15	20	164800	824	DFT-s-OFDM QPSK	1@1	24.66
26	15	20	164800	824	DFT-s-OFDM QPSK	1@0	22.35
26	15	20	164800	824	DFT-s-OFDM QPSK	1@104	24.54
26	15	20	164800	824	DFT-s-OFDM QPSK	2@0	22.46
26	15	20	164800	824	DFT-s-OFDM QPSK	50@25	24.81
26	15	20	164800	824	DFT-s-OFDM QPSK	2@104	22.41
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@1	22.54
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@1	21.16
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@1	18.69
26	15	20	164800	824	DFT-s-OFDM QPSK	100@0	22.45
26	15	20	164800	824	DFT-s-OFDM 16 QAM	100@0	21.56
26	15	20	164800	824	DFT-s-OFDM 64 QAM	100@0	21.00
26	15	20	164800	824	DFT-s-OFDM 256 QAM	100@0	18.98
26	15	20	164800	824	CP-OFDM QPSK	1@1	22.13
26	15	20	164800	824	CP-OFDM 16 QAM	1@1	21.77
26	15	20	164800	824	CP-OFDM 64 QAM	1@1	20.34

Frequency Stability

Test Result

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0067	**PASS**	NV
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0058	**PASS**	LV
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0034	**PASS**	HV
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0046	**PASS**	-30℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0037	**PASS**	-20℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0069	**PASS**	-10℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0071	**PASS**	0℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0053	**PASS**	10℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0061	**PASS**	20℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0037	**PASS**	30℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0048	**PASS**	40℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0066	**PASS**	50℃

Peak to Average Ratio

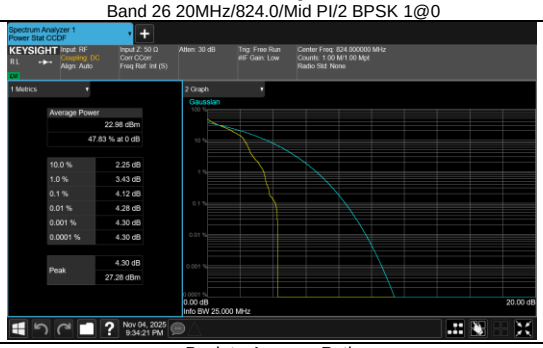
Test Result

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
26	15	20	164800	824.0	DFT-s-OFDM PI/2 BPSK	100@0	4.88	13
26	15	20	164800	824.0	DFT-s-OFDM PI/2 BPSK	1@0	4.12	13
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	5.98	13
26	15	20	164800	824.0	DFT-s-OFDM QPSK	1@0	6.06	13

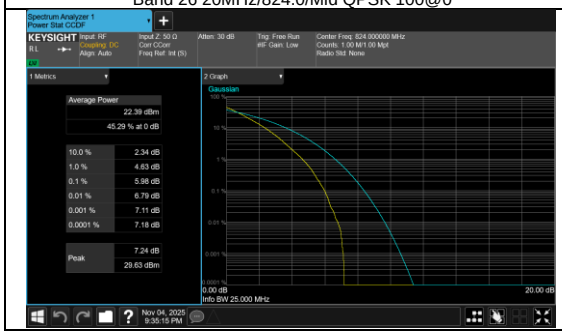
Test Graphs

Peak-to-Average-Ratio
Band 26 20MHz/824.0/Mid PI/2 BPSK 100@0

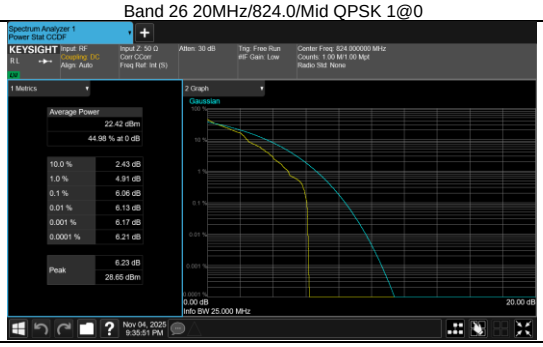
Peak-to-Average-Ratio
Band 26 20MHz/824.0/Mid PI/2 BPSK 1@0



Peak-to-Average-Ratio
Band 26 20MHz/824.0/Mid QPSK 100@0



Peak-to-Average-Ratio
Band 26 20MHz/824.0/Mid QPSK 1@0



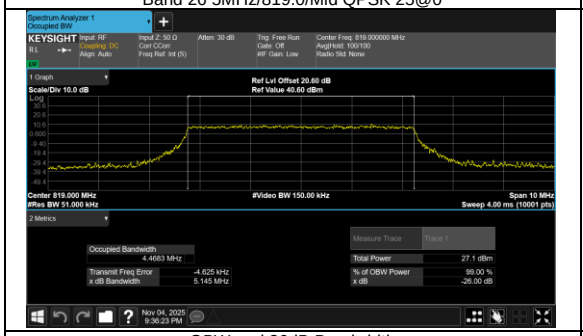
Occupied Bandwidth

Test Result

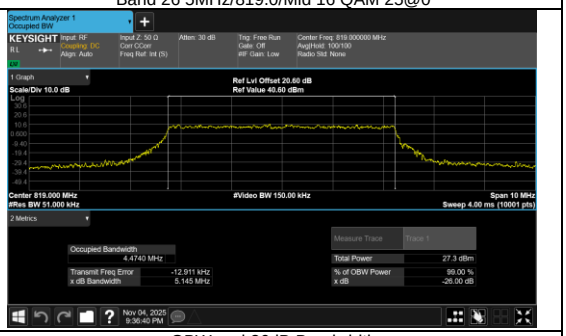
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	OBW(MHz)	26dB OBW(MHz)
26	15	5	163800	819.0	CP-OFDM QPSK	25@0	4.47	5.145
26	15	5	163800	819.0	CP-OFDM 16 QAM	25@0	4.47	5.145
26	15	10	163800	819.0	CP-OFDM QPSK	52@0	9.26	9.959
26	15	10	163800	819.0	CP-OFDM 16 QAM	52@0	9.28	9.896
26	15	15	164300	821.5	CP-OFDM QPSK	79@0	14.08	14.79
26	15	15	164300	821.5	CP-OFDM 16 QAM	79@0	14.09	14.8
26	15	20	164800	824.0	CP-OFDM QPSK	106@0	18.89	19.75
26	15	20	164800	824.0	CP-OFDM 16 QAM	106@0	18.9	19.8

Test Graphs

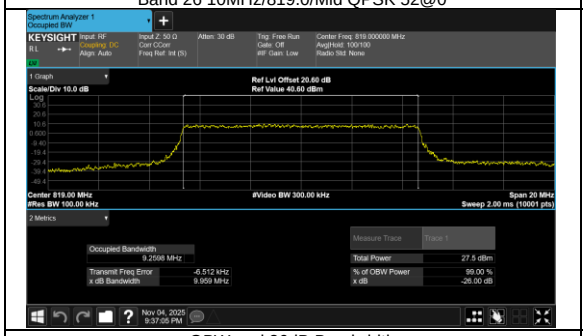
OBW and 26dB Bandwidth
Band 26 5MHz/819.0/Mid QPSK 25@0



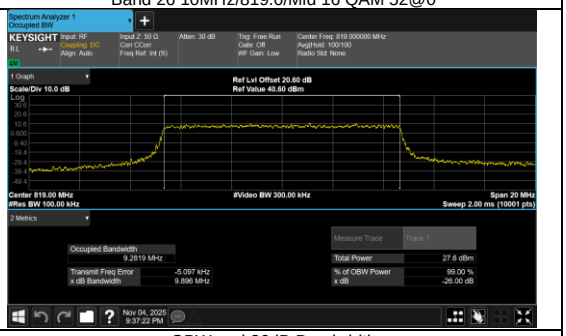
OBW and 26dB Bandwidth
Band 26 5MHz/819.0/Mid 16 QAM 25@0



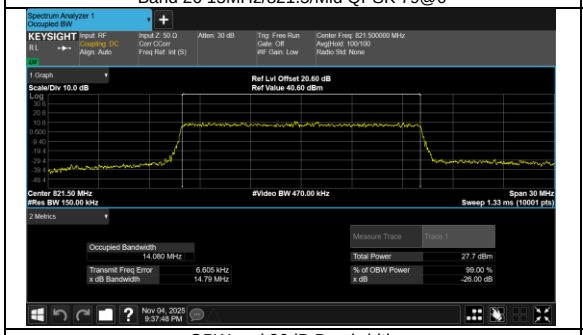
OBW and 26dB Bandwidth
Band 26 10MHz/819.0/Mid QPSK 52@0



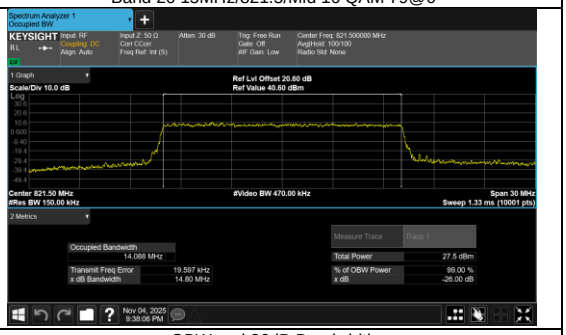
OBW and 26dB Bandwidth
Band 26 10MHz/819.0/Mid 16 QAM 52@0



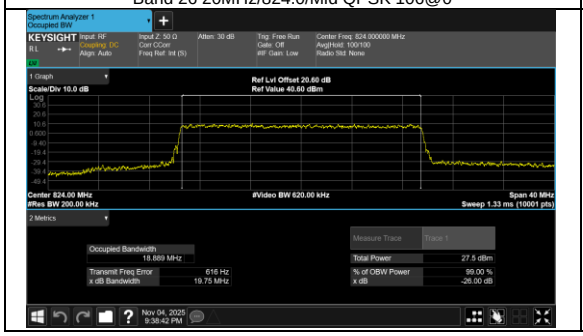
OBW and 26dB Bandwidth
Band 26 15MHz/821.5/Mid QPSK 79@0



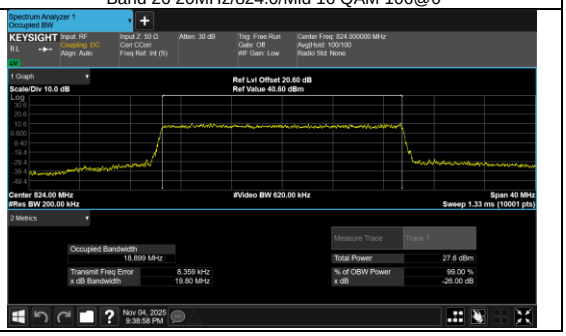
OBW and 26dB Bandwidth
Band 26 15MHz/821.5/Mid 16 QAM 79@0



OBW and 26dB Bandwidth
Band 26 20MHz/824.0/Mid QPSK 106@0



OBW and 26dB Bandwidth
Band 26 20MHz/824.0/Mid 16 QAM 106@0



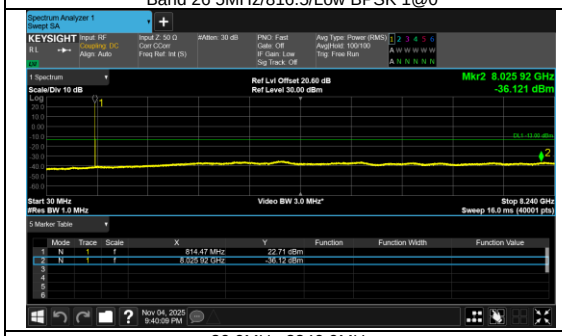
Conducted Spurious Emissions

Test Result

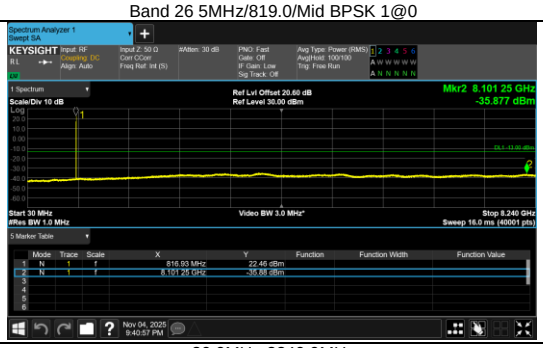
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
26	15	5	163300	816.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
26	15	5	163800	819.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
26	15	5	164300	821.5	DFT-s-OFDM BPSK	1@0	See graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM BPSK	1@0	See graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM BPSK	1@0	See graph	PASS

Test Graphs

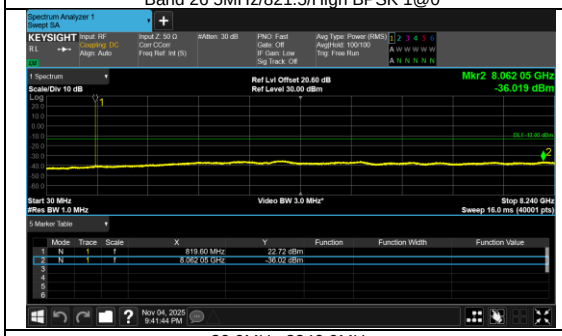
30.0MHz-8240.0MHz
Band 26 5MHz/816.5/Low BPSK 1@0



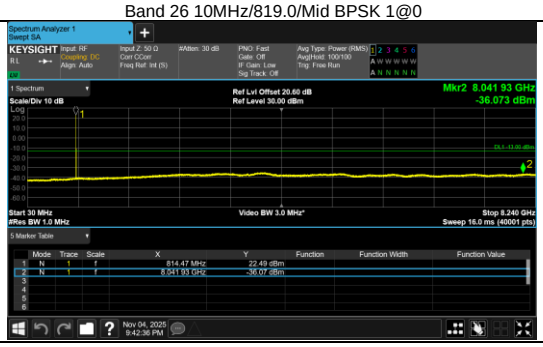
30.0MHz-8240.0MHz
Band 26 5MHz/819.0/Mid BPSK 1@0



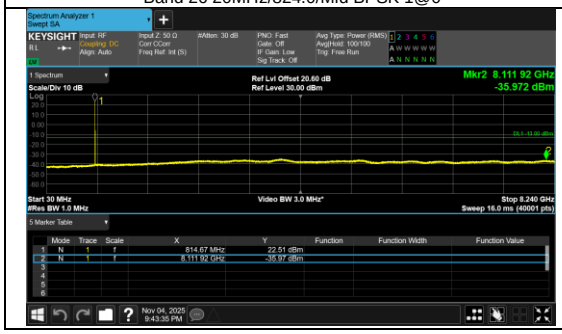
30.0MHz-8240.0MHz
Band 26 5MHz/821.5/High BPSK 1@0



30.0MHz-8240.0MHz
Band 26 10MHz/819.0/Mid BPSK 1@0



30.0MHz-8240.0MHz
Band 26 20MHz/824.0/Mid BPSK 1@0



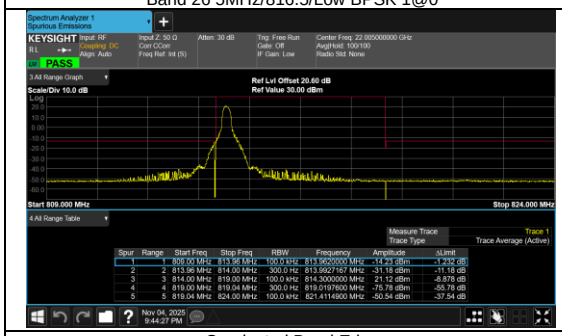
Conducted Band Edge

Test Result

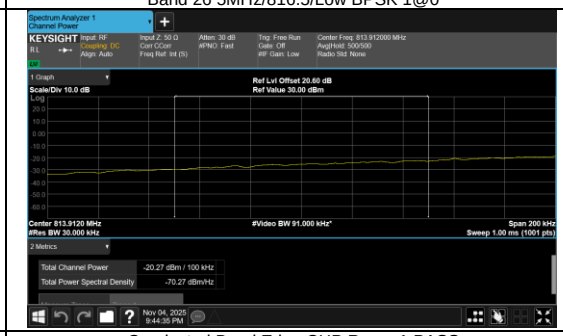
NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Result	Verdict
26	15	5	163300	816.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
26	15	5	163300	816.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
26	15	5	164300	821.5	DFT-s-OFDM BPSK	1@24	see graph	PASS
26	15	5	164300	821.5	DFT-s-OFDM QPSK	1@24	see graph	PASS
26	15	5	164300	821.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
26	15	5	164300	821.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM BPSK	1@51	see graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM QPSK	1@51	see graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
26	15	10	163800	819.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM BPSK	1@105	see graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM QPSK	1@105	see graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM BPSK	100@0	see graph	PASS
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	see graph	PASS

Test Graphs

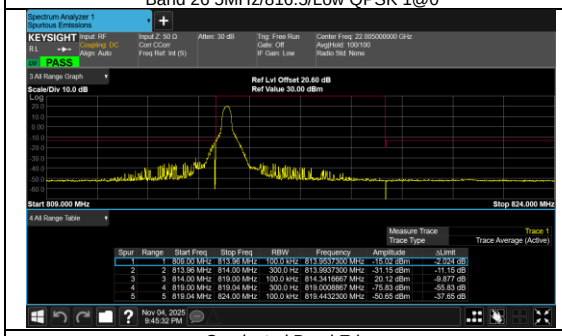
Conducted Band Edge
Band 26 5MHz/816.5/Low BPSK 1@0



Conducted Band Edge CHP Range1 PASS
Band 26 5MHz/816.5/Low BPSK 1@0

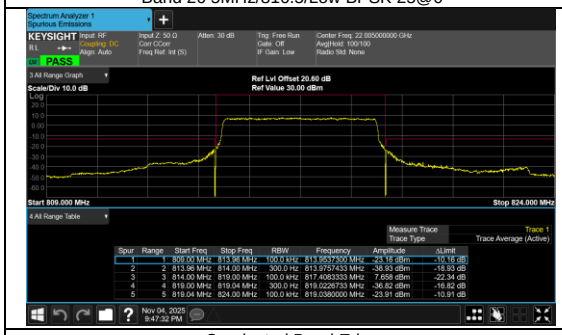


Conducted Band Edge
Band 26 5MHz/816.5/Low QPSK 1@0

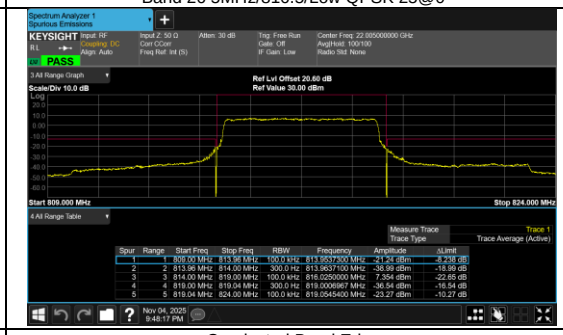


Conducted Band Edge CHP Range1 PASS
Band 26 5MHz/816.5/Low QPSK 1@0

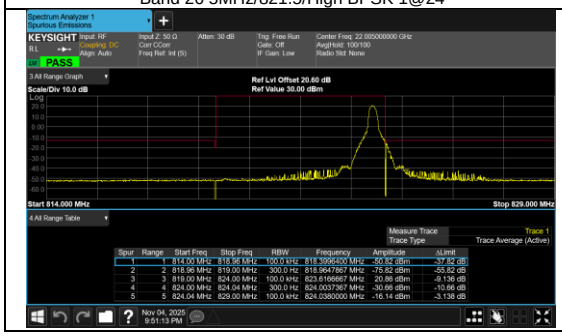
Conducted Band Edge
Band 26 5MHz/816.5/Low BPSK 25@0



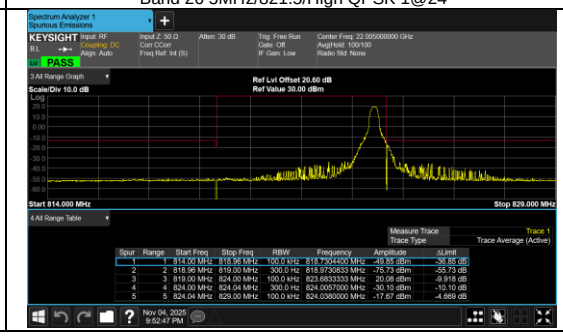
Conducted Band Edge
Band 26 5MHz/816.5/Low QPSK 25@0



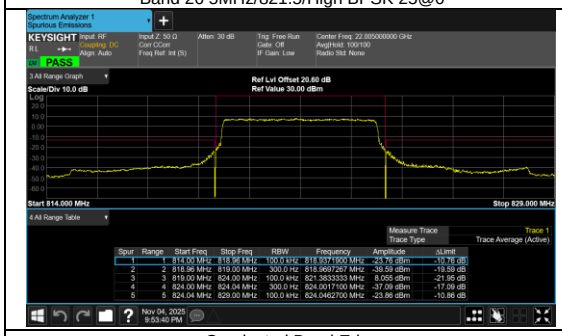
Conducted Band Edge
Band 26 5MHz/821.5/High BPSK 1@24



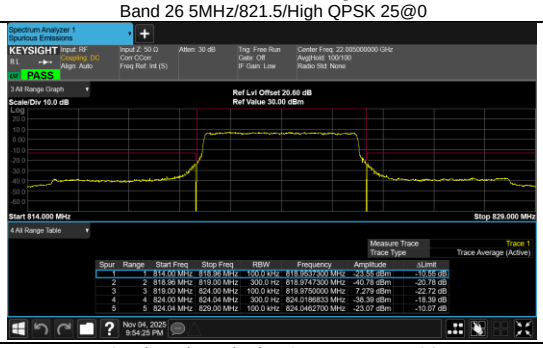
Conducted Band Edge
Band 26 5MHz/821.5/High QPSK 1@24



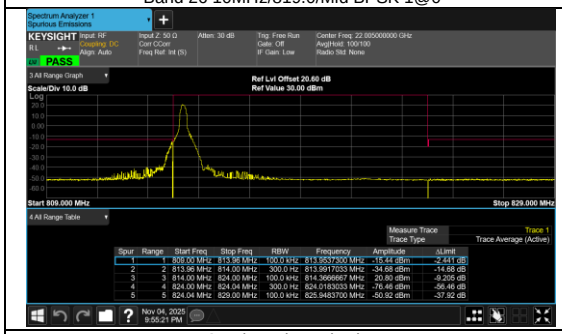
Conducted Band Edge
Band 26 5MHz/821.5/High BPSK 25@0



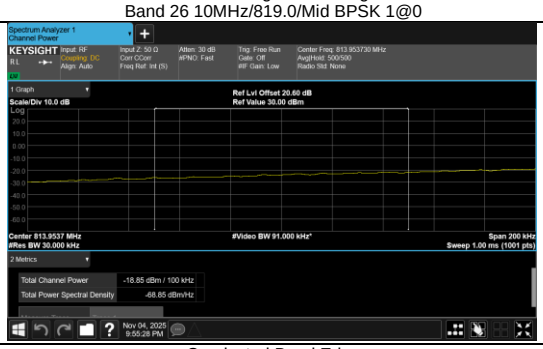
Conducted Band Edge
Band 26 5MHz/821.5/High QPSK 25@0



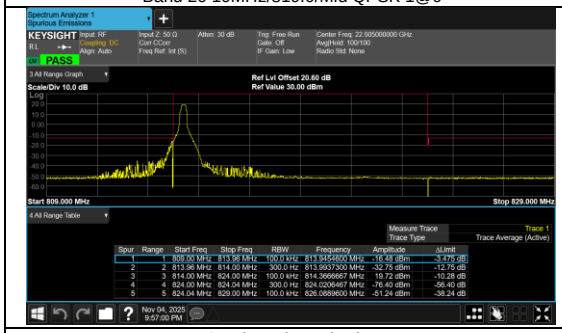
Conducted Band Edge
Band 26 10MHz/819.0/Mid BPSK 1@0



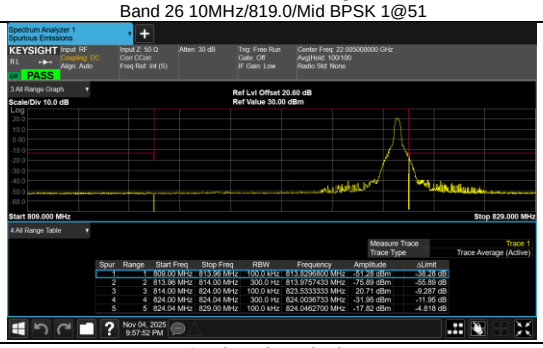
Conducted Band Edge CHP Range1 PASS
Band 26 10MHz/819.0/Mid BPSK 1@0



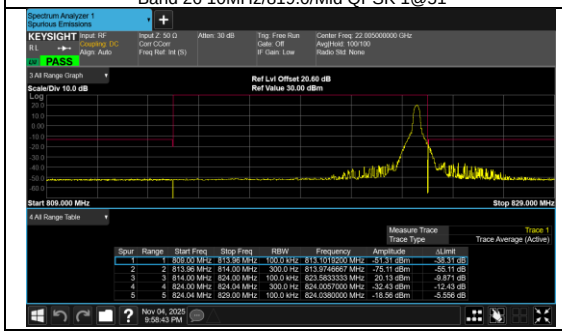
Conducted Band Edge
Band 26 10MHz/819.0/Mid QPSK 1@0



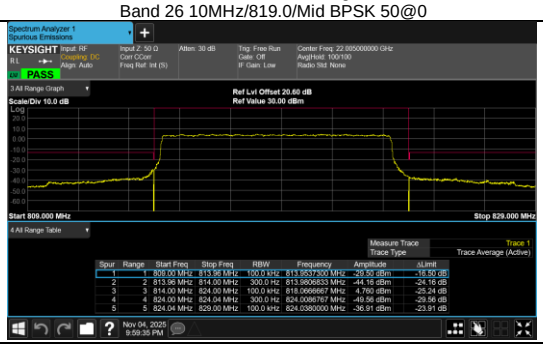
Conducted Band Edge
Band 26 10MHz/819.0/Mid BPSK 1@51



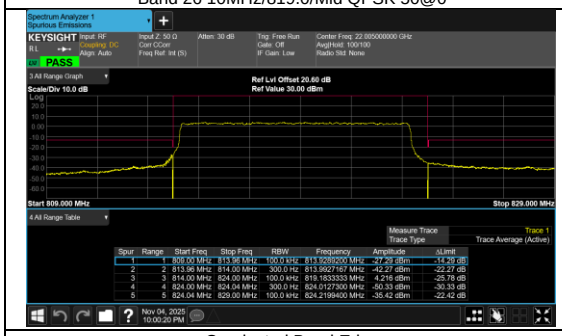
Conducted Band Edge
Band 26 10MHz/819.0/Mid QPSK 1@51



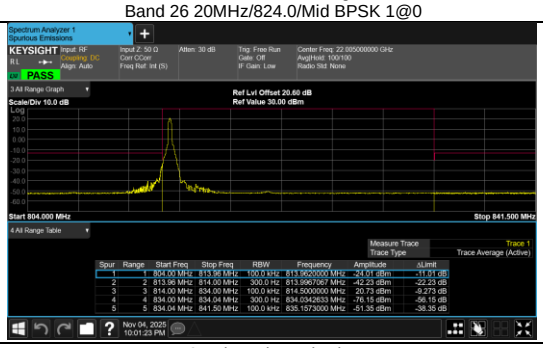
Conducted Band Edge
Band 26 10MHz/819.0/Mid BPSK 50@0



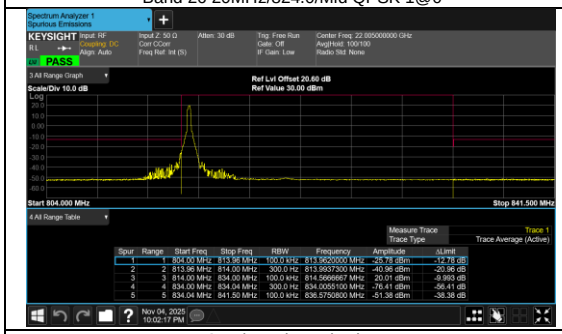
Conducted Band Edge
Band 26 10MHz/819.0/Mid QPSK 50@0



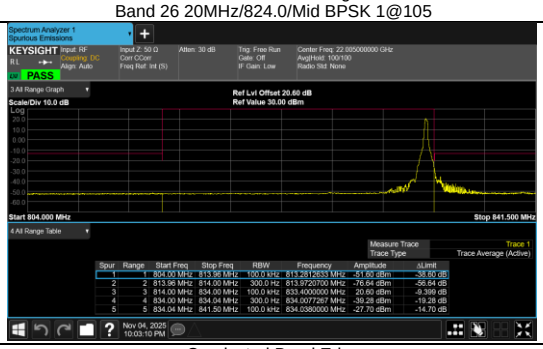
Conducted Band Edge
Band 26 20MHz/824.0/Mid BPSK 1@0



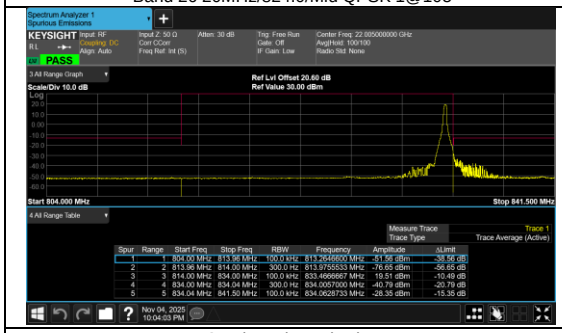
Conducted Band Edge
Band 26 20MHz/824.0/Mid QPSK 1@0



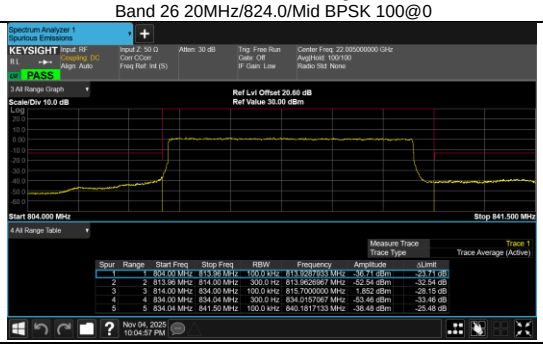
Conducted Band Edge
Band 26 20MHz/824.0/Mid BPSK 1@105



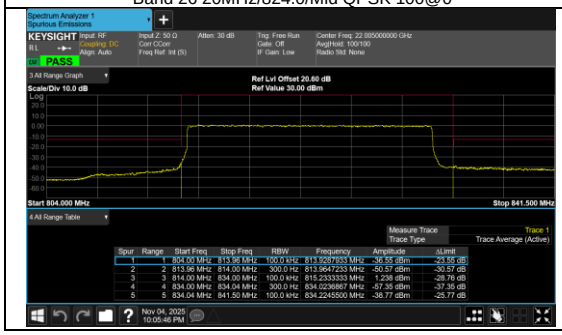
Conducted Band Edge
Band 26 20MHz/824.0/Mid QPSK 1@105



Conducted Band Edge
Band 26 20MHz/824.0/Mid BPSK 100@0



Conducted Band Edge
Band 26 20MHz/824.0/Mid QPSK 100@0



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	21~25℃
		Relative Humidity :	51~53%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

n26 SA / NR 20MHz / QPSK(ANT0)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1648	-59.43	-13	-46.43	-66.40	1.58	10.70	H
	2472	-54.69	-13	-41.69	-62.94	2.102	12.50	H
	3288	-57.28	-13	-44.28	-66.17	2.856	13.90	H
	1648	-57.67	-13	-44.67	-64.64	1.58	10.70	V
	2472	-53.35	-13	-40.35	-61.60	2.10	12.50	V
	3288	-56.98	-13	-43.98	-65.87	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.