# **FCC RF Test Report**

FCC ID : UZ7EM45B2

**EQUIPMENT**: Enterprise Mobile

BRAND NAME : Zebra
MODEL NAME : EM45B2

**APPLICANT**: Zebra Technologies Corporation

3 Overlook Point, Lincolnshire, IL 60069 USA

MANUFACTURER : Zebra Technologies Corporation

3 Overlook Point, Lincolnshire, IL 60069 USA

STANDARD : 47 CFR Part 2, and 90(S)

**CLASSIFICATION**: PCS Licensed Transmitter Held to Ear (PCE)

TEST DATE(S) : Jul. 08, 2024 ~ Aug. 12, 2024

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.

JasonJia

Approved by: Jason Jia





Report No.: FG460508I

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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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG460508I	Rev. 01	Initial issue of report	Sep. 11, 2024

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark	
3.1	§2.1046	Conducted Output Power		PASS	-	
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	_	PASS	-	
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log <sub>10</sub> (P[Watts])	PASS	-	
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log <sub>10</sub> (P[Watts])	PASS	-	
3.5	§2.1053 §90.691	Field Strength of Spurious  Radiation	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 46.85 dB at 2448.00 MHz	
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-	

#### **Conformity Assessment Condition:**

- 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.

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## 1 General Description

## 1.1 Feature of Equipment Under Test

Product Feature							
Equipment	Enterprise Mobile						
Brand Name	Zebra						
Model Name	EM45B2						
FCC ID	UZ7EM45B2						
	Conducted: 350854420036002/350854420037034						
IMEI Code	Radiation:						
	350854420030211/350854420030229						
HW Version	EV2.5						
SW Version	13-32-08.00-TG-U06-STD-ATH-04						
MFD	02AUG24						
EUT Stage	Identical Prototype						

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Specification of Accessory							
Batterv	Brand Name		Model	BT-000501			
Dattery	Brand Name	Zebra	Part Number	BT-000501-2000			

Supported Unit used in test configuration and system								
AC Adapter 1	Brand Name	Zebra	Model	SAWA-102-22520A				
(Type C Wall Charger 1)	Brand Name	Zebra	Part Number	PWR-WUA5V45W1US				
AC Adapter 2	Brand Name	Zebra	Model	SAWA-65-20005A				
(Type A Wall Charger 2)	Brand Name	Zebia	Part Number	PWR-WUA5V12W0US				
Earphone 1 (Wired headset USB-C)	Brand Name	Zebra	Part Number	HDST-USBC-PTT1-01				
Earphone 2 (Rugged Bluetooth Headset)	Brand Name	Zebra	Part Number	HS3100-OTH				
Earphone 3 (3.5mm PTT Headset)	Brand Name	Zebra	Part Number	HDST-35MM-PTT1-02				
Earphone 4 (Rugged Headset)	Brand Name	Zebra	Part Number	HS2100-OTH				
3.5mm to 3.5mm audio connector	Brand Name	Zebra	Part Number	CBL-HS2100-3MS1-01				
Type C-Audio Cable (Type C to 3.5mm)	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01				
USB Cable 1 (USB-C to C Cable)	Brand Name	Zebra	Part Number	CBL-EC5X-USBC3A-01				
USB Cable 2 (USB-A to C Cable)	Brand Name	Zebra	Part Number	CBL-TC5X-USBC2A-01				
EM45 Protective Case	Brand Name	Zebra	Part Number	SG-EM45EXO1-01				

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## 1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814 ~ 824 MHz						
Rx Frequency	859 ~ 869 MHz						
SCS	15kHz						
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz						
Antenna Gain	-3.0dBi for Ant0, -2.11 dBi for Ant1						
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM						

#### Remark:

- 1. 5G NR n26 supports SA mode only.
- 2. The maximum power of Ant.0 is shown in the report.

### 1.3 Modification of EUT

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

## 1.4 Maximum Conducted Power and Emission Designator

5G	NR n26	PI/2 BPS	K/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	0.1936	4M47G7D	0.1560	4M47W7D		
10	819	0.1923	9M26G7D	0.1552	9M29W7D		
<b>15</b> 821.5		0.1854	14M1G7D	0.1479	14M1W7D		
20	824	0.1954	18M9G7D	0.1500	18M9W7D		

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

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

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#### 1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH04-KS	AUDIX	E3	210616

## 1.7 Applied Standards

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

- 47 CFR Part 2, 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 v02r01

#### Remark:

- 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.

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## 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 (X Plane).

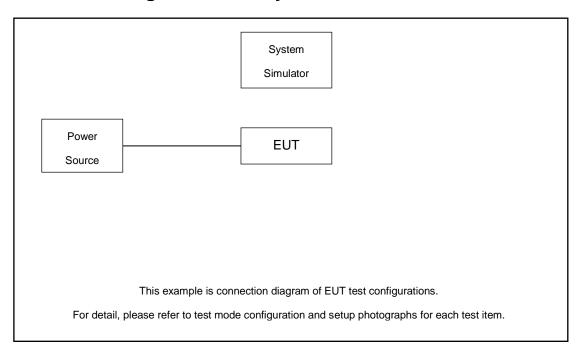
Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

Total Manua	Daniel.	Bandwidth (MHz)				Modulation				RB#			Test Channel			
Test Items	Band	5	10	15	20	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	Н
Max. Output Power	n26	v	v	٧	٧	v	v	v	v	v	٧		v	v	٧	٧
26dB and 99% Bandwidth	n26	v	٧	v	٧		٧	v	v	v			v		>	
Emission masks	n26	٧				v	٧				٧		٧	v	>	v
In-band emissions	1120		v		٧	v	V				V		v		v	
Emission masks – Out of band	n26	v				v	V				٧			v		v
emissions			٧		>	v	٧				٧				٧	
Frequency Stability	n26				v		v						v		v	
Radiated Spurious Emission	n26			Worst Case								v				
Note	2. T 3. 50 19 w	he ma G n26 5MHz hich fa	rk "-" r transr bandv alls wit	means mit fred vidth c thin pa	that th quency omplie ont 22 a	this configur nis bandwidt for part22 r s the ERP li lso complies nal Voltage =	h is not ule is 82 mit line o	supported 4MHz-84 of part22	d. I9MHz, fo rule, ther	efore ERP	of the	partia	al frequ			

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## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Anritsu	MT8821	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 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.

Offset = RF cable loss.

The following shows an offset computation example with RF cable loss 4.8 dB attenuator.

Example:

Offset(dB) = RF cable loss(dB).

= 4.8 (dB)

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## 2.5 Frequency List of Low/Middle/High Channels

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

5G NR n26 Cross-rule Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	-	Middle						
20	Channel	-	164800	-					
20	Frequency	-	824	-					
15	Channel	-	164300	-					
15	Frequency	-	821.5	-					

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#### 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.

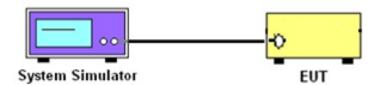
#### 3.1.2 Measuring Instruments

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.

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## 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.

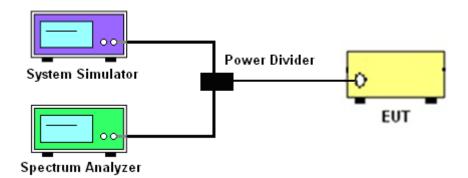
### 3.2.2 Measuring Instruments

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.

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#### 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<sub>10</sub>(f/6.1) decibels or 50 + 10 Log<sub>10</sub>(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<sub>10</sub>(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.
- 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.

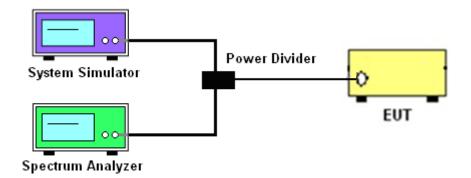
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## 3.3.4 Test Setup



## 3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

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#### 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 10<sup>th</sup> harmonic.

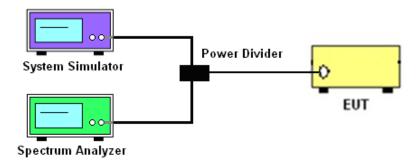
#### 3.4.2 Measuring Instruments

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.

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## 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.

### 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)

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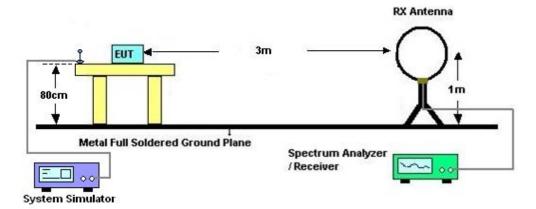
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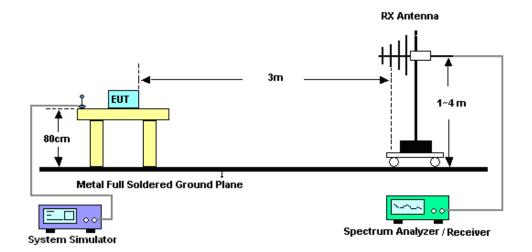
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### 3.5.4 Test Setup

#### For radiated test from 30MHz



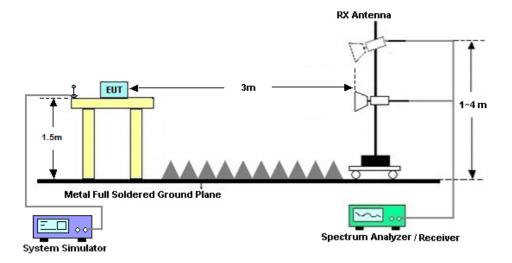
#### For radiated test from 30MHz to 1GHz



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#### 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.

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## 3.6 Frequency Stability Measurement

#### **Description of Frequency Stability Measurement** 3.6.1

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.

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#### 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.
- With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized 3. 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.
- The variation in frequency was measured for the worst case. 5.

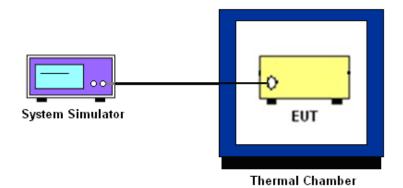
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## 3.6.5 Test Setup



## 3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

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## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Jul. 08, 2024~ Jul. 23, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Jul. 08, 2024~ Jul. 23, 2024	NCR	Conducted (TH01-KS)
Temperature &hu midity chamber	Hongzhan	LP-150U	H201401144 0	-40~+150°C 20%~95%RH	Jul. 04, 2024	Jul. 08, 2024~ Jul. 23, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY5747107 9	10Hz-44G,MAX 30dB	Oct. 11, 2023	Aug. 02, 2024~ Aug. 12, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 11 2023	Aug. 02, 2024~ Aug. 12, 2024	Sep. 10, 2024	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 18, 2023	Aug. 02, 2024~ Aug. 12, 2024	Aug. 17, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Aug. 02, 2024~ Aug. 12, 2024	Oct. 22, 2024	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Aug. 02, 2024~ Aug. 12, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Aug. 02, 2024~ Aug. 12, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Aug. 02, 2024~ Aug. 12, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 11, 2023	Aug. 02, 2024~ Aug. 12, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 11, 2023	Aug. 02, 2024~ Aug. 12, 2024	Oct. 10, 2024	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 02, 2024~ Aug. 12, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 02, 2024~ Aug. 12, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 02, 2024~ Aug. 12, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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## 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**

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.50 dB
Frequency Stability	±0.04 ppm

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

Measuring Uncertainty for a Level of	2 02 AB
Confidence of 95% (U = 2Uc(y))	2.83 dB

#### <u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)</u>

-		
	Measuring Uncertainty for a Level of	2.83 dB
	Confidence of 95% (U = 2Uc(y))	2.03 UB

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

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

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

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## **Appendix A. Test Results of Conducted Test**

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

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Report No.: FG460508I

## FR1 N26

## **Transmitter Conducted Output Power**

NR Band	scs	Band	Arfcn	Freq	Modulation	RB	Conducted	Conducted
	45	Width		(MHz)		50.005	Power(dBm)	Power (W)
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	50@25	22.91	0.1954
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@1	22.6	0.1820
26	15	20	164800	824	DFT-s-OFDM PI/2 BPSK	1@104	22.62	0.1828
26	15	20	164800	824	DFT-s-OFDM QPSK	50@25	22.78	0.1897
26	15	20	164800	824	DFT-s-OFDM QPSK	1@1	22.74	0.1879
26	15	20	164800	824	DFT-s-OFDM QPSK	1@104	22.53	0.1791
26	15	20	164800	824	DFT-s-OFDM 16 QAM	50@25	21.76	0.1500
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@1	21.72	0.1486
26	15	20	164800	824	DFT-s-OFDM 16 QAM	1@104	21.68	0.1472
26	15	20	164800	824	DFT-s-OFDM 64 QAM	50@25	20.33	0.1079
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@1	20.15	0.1035
26	15	20	164800	824	DFT-s-OFDM 64 QAM	1@104	20.18	0.1042
26	15	20	164800	824	DFT-s-OFDM 256 QAM	50@25	18.12	0.0649
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@1	18.02	0.0634
26	15	20	164800	824	DFT-s-OFDM 256 QAM	1@104	17.98	0.0628
26	15	20	164800	824	CP-OFDM QPSK	53@26	21.24	0.1330
26	15	20	164800	824	CP-OFDM QPSK	1@1	21.31	0.1352
26	15	20	164800	824	CP-OFDM QPSK	1@104	21.22	0.1324
26	15	5	163300	816.5	DFT-s-OFDM PI/2 BPSK	1@1	22.75	0.1884
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@1	22.86	0.1932
26	15	5	163300	816.5	DFT-s-OFDM 16 QAM	1@1	21.76	0.1500
26	15	5	163800	819	DFT-s-OFDM PI/2 BPSK	1@1	22.66	0.1845
26	15	5	163800	819	DFT-s-OFDM QPSK	1@1	22.87	0.1936
26	15	5	163800	819	DFT-s-OFDM 16 QAM	1@1	21.93	0.1560
26	15	5	164300	821.5	DFT-s-OFDM PI/2 BPSK	1@1	22.78	0.1897
26	15	5	164300	821.5	DFT-s-OFDM QPSK	1@1	22.7	0.1862
26	15	5	164300	821.5	DFT-s-OFDM 16 QAM	1@1	21.83	0.1524
26	15	10	163800	819	DFT-s-OFDM PI/2 BPSK	1@1	22.74	0.1879
26	15	10	163800	819	DFT-s-OFDM QPSK	1@1	22.84	0.1923
26	15	10	163800	819	DFT-s-OFDM 16 QAM	1@1	21.91	0.1552
26	15	15	164300	821.5	DFT-s-OFDM PI/2 BPSK	1@1	22.67	0.1849
26	15	15	164300	821.5	DFT-s-OFDM QPSK	1@1	22.68	0.1854
26	15	15	164300	821.5	DFT-s-OFDM 16 QAM	1@1	21.7	0.1479

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## **Frequency Stability**

	<b>,</b>	Otabilit	•						
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	-0.0029	PASS	NV
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	-0.0022	PASS	LV
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0031	PASS	HV
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0047	PASS	-30℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	-0.0041	PASS	-20℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0039	PASS	-10℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0034	PASS	0℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	-0.0026	PASS	10℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	-0.0022	PASS	20℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	-0.0031	PASS	30℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	-0.0029	PASS	40℃
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	0.0023	PASS	50℃

## **Peak to Average Ratio**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
26	15	20	164800	824.0	DFT-s-OFDM PI/2 BPSK	100@0	4.41	13	PASS
26	15	20	164800	824.0	DFT-s-OFDM PI/2 BPSK	1@0	4.4	13	PASS
26	15	20	164800	824.0	DFT-s-OFDM QPSK	100@0	5.72	13	PASS
26	15	20	164800	824.0	DFT-s-OFDM QPSK	1@0	5.98	13	PASS

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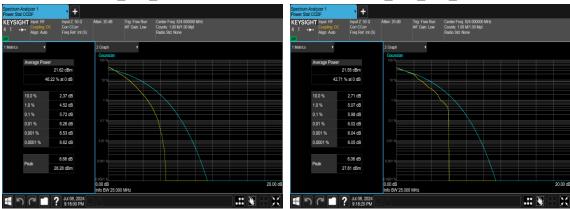
TEL: +86-512-57900158 FCC ID: UZ7EM45B2

CC RF Test Report No. : FG460508I

N26(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_O N26(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge uter\_Full\_Mid\_CH \_\_1RB\_Left\_Mid\_CH



N26(20M)\_DFT-s-OFDM\_QPSK\_Outer\_ N26(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB Full\_Mid\_CH \_\_Left\_Mid\_CH





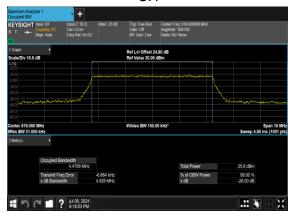
## **Occupied Bandwidth**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
26	15	5	163800	819.0	CP-OFDM QPSK	25@0	4.4709	4.929
26	15	5	163800	819.0	CP-OFDM 16 QAM	25@0	4.4692	4.849
26	15	5	163800	819.0	CP-OFDM 64 QAM	25@0	4.4707	4.931
26	15	5	163800	819.0	CP-OFDM 256 QAM	25@0	4.4739	4.913
26	15	10	163800	819.0	CP-OFDM QPSK	52@0	9.2638	9.853
26	15	10	163800	819.0	CP-OFDM 16 QAM	52@0	9.2864	9.763
26	15	10	163800	819.0	CP-OFDM 64 QAM	52@0	9.2608	9.758
26	15	10	163800	819.0	CP-OFDM 256 QAM	52@0	9.2776	9.834
26	15	15	164300	821.5	CP-OFDM QPSK	79@0	14.079	14.67
26	15	15	164300	821.5	CP-OFDM 16 QAM	79@0	14.075	14.72
26	15	15	164300	821.5	CP-OFDM 64 QAM	79@0	14.083	14.7
26	15	15	164300	821.5	CP-OFDM 256 QAM	79@0	14.066	14.73
26	15	20	164800	824.0	CP-OFDM QPSK	106@0	18.897	19.67
26	15	20	164800	824.0	CP-OFDM 16 QAM	106@0	18.895	19.72
26	15	20	164800	824.0	CP-OFDM 64 QAM	106@0	18.892	19.6
26	15	20	164800	824.0	CP-OFDM 256 QAM	106@0	18.864	19.65

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## CC RF Test Report No.: FG460508I

N26(5M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_ CH



N26(5M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N26(5M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

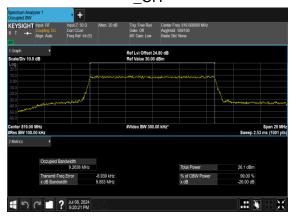


N26(5M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

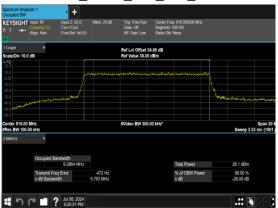


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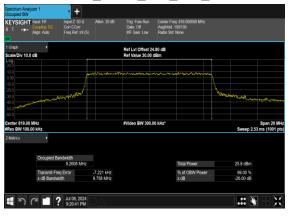
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N26(10M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N26(10M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

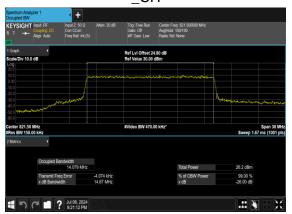


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FCC RF Test Report No.: FG460508I

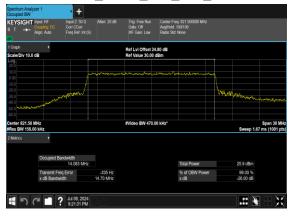
N26(15M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid \_CH



N26(15M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N26(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH

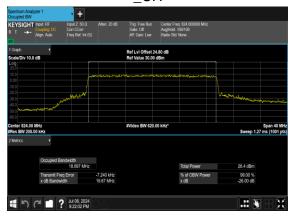


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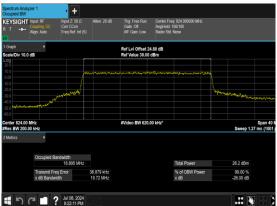


CC RF Test Report No. : FG460508I

N26(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid \_CH



N26(20M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



N26(20M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



N26(20M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH





## **Conducted Spurious Emissions**

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

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## N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1R B\_Left\_Low\_CH



### N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1R B\_Left\_Low\_CH

Report No.: FG460508I



N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1R B\_Left\_Mid\_CH



N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1R B\_Left\_Mid\_CH



## N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1R B\_Left\_High\_CH



### N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1R B\_Left\_High\_CH

Report No.: FG460508I



## B\_Left\_Mid\_CH



# B\_Left\_Mid\_CH





## **Conducted Band Edge**

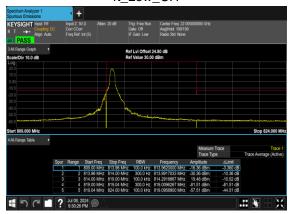
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26	15	5	163300	816.5	DFT-s-OFDM BPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s-OFDM QPSK	1@0	see graph	PASS
26	15	5	163300	816.5	DFT-s-OFDM BPSK	25@0	see graph	PASS
26	15	5	163300	816.5	DFT-s-OFDM QPSK	25@0	see graph	PASS
26	15	5	164300	821.5	DFT-s-OFDM 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	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

Report No.: FG460508I

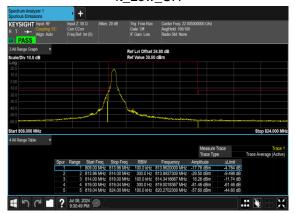
Sporton International Inc. (Kunshan) Page Number : A12 of A16

CC RF Test Report No. : FG460508I

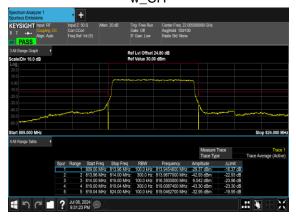
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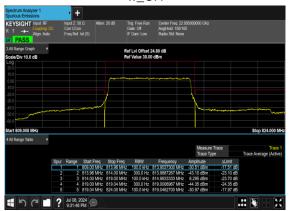
N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Le ft\_Low\_CH



N26(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Lo w\_CH

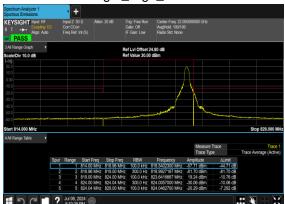


 $\begin{array}{c} {\sf N26(5M)\_DFT\text{-}s\text{-}OFDM\_QPSK\_Outer\_Full\_Lo} \\ {\sf w\_CH} \end{array}$ 

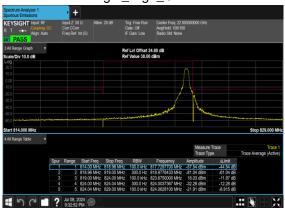


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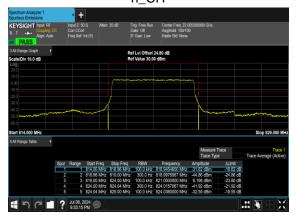
N26(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Ri ght\_High\_CH



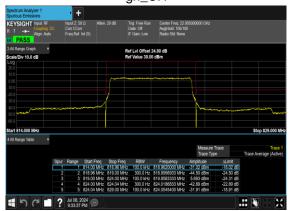
N26(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Ri ght\_High\_CH



N26(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Hig h\_CH

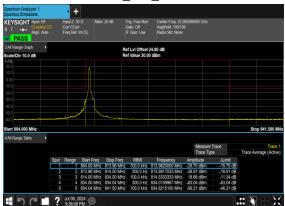


N26(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Hi gh\_CH

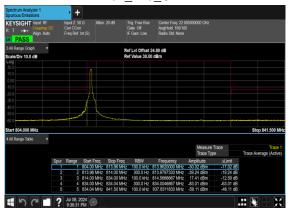


**Report No. : FG460508I** 

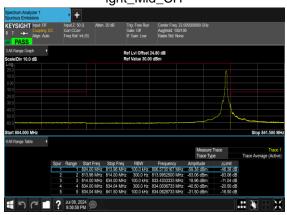
N26(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_L eft\_Mid\_CH



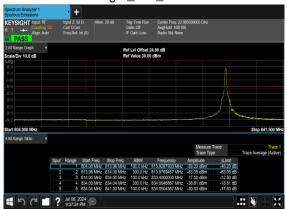
N26(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_L eft\_Mid\_CH



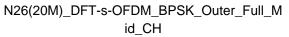
ight\_Mid\_CH



ight\_Mid\_CH

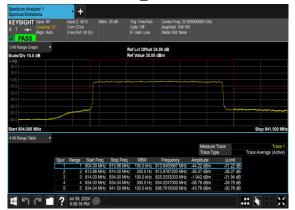


FCC RF Test Report No. : FG460508I





# N26(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_M id\_CH



## **Appendix B. Test Results of Radiated Test**

## **Radiated Spurious Emission**

Test Engineer :		Temperature :	23~25°C
rest Engineer.	Bruce	Relative Humidity :	41~42%

n26 SA / NR 20MHz / QPSK for 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	1632	-66.26	-13	-53.26	-73.23	1.58	10.70	Н
	2448	-61.79	-13	-48.79	-70.04	2.102	12.50	Н
	3264	-60.58	-13	-47.58	-69.47	2.856	13.90	Н
	1632	-65.31	-13	-52.31	-72.28	1.58	10.70	V
	2448	-59.85	-13	-46.85	-68.10	2.10	12.50	V
	3264	-60.62	-13	-47.62	-69.51	2.86	13.90	V

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

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