FCC RF Test Report

APPLICANT : Motorola Mobility, LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2071-2, XT2071-3, XT2071-5

FCC ID : IHDT56ZB1

STANDARD : 47 CFR Part 2, 27

CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 28, 2020 and completely tested on Jul. 19, 2020. We, Sporton International (KunShan) Inc., 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 (KunShan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Jason Jia / Supervisor

Jason Jia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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

Sporton International (Kunshan) Inc.

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Report No.: FG052803-01A

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG052803-01A	Rev. 01	Initial issue of report	Aug. 18, 2020
FG052803-01A	Rev. 02	Added EUT IMEI code for conducted test items	Aug. 20, 2020

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only		
3.4	§27.50(c)(10)	Effective Radiated Power (5G NR n71)	ERP < 3 Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (5G NR n66)	EIRP < 1Watt		
3.5	3.5 N/A Peak-to-Average Ratio		<13 dB	PASS	-
3.6	3.6 §2.1049 Occupied Bandwidth		Reporting Only	PASS	-
3.7	§2.1051 §27.53(g)	Conducted Band Edge Measurement (5G NR n66) (5G NR n71)	< 43+10log10(P[Watts])	PASS	,
3.8	§2.1051 §27.53(g)	Conducted Spurious Emission (5G NR n66) (5G NR n71)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(g)	Radiated Spurious Emission (5G NR n66) (5G NR n71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 11.88 dB at 14499.000 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Product Feature of Equipment Under Test

	Product Feature				
Equipment	Mobile Cellular Phone				
Brand Name	Motorola				
Model Name	XT2071-2, XT2071-3, XT2071-5				
FCC ID	IHDT56ZB1				
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n (HT20/HT40) WLAN 2.4GHz 802.11ac (VHT20/VHT40) WLAN 5GHz 802.11a/n/ac (HT20/HT40/VHT20/VHT40/VHT80) Bluetooth BR / EDR / LE GNSS/NFC				
IMEI Code	Conducted: 353590110023754 Radiation: 353603110010299 353603110010307				
HW Version	DVT2				
SW Version userdebug_10_QPS30.219_dbafb_intcfg-test-keys					
EUT Stage	Identical Prototype				

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Remark:

- 1. Only 5G NR partial bands are tested in this report, all the other RF bands are tested in the other reports separately.
- 2. 5G NR supports CP-OFDM and DFT-s-OFDM modulation, for DFT-s-OFDM power is higher than CP-OFDM, so chose DFT-s-OFDM modulation to perform all test.
- 3. 5G NR supports NSA mode only.

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1.4 Product Specification of Equipment Under Test

Si	Standards-related Product Specification				
Tx Frequency	5G NR n66: 1712.5 MHz ~ 1777.5 MHz				
TXTTEQUETICS	5G NR n71: 665.5 MHz ~ 695.5MHz				
Rx Frequency	5G NR n66: 2112.5 MHz~ 2197.5 MHz				
	5G NR n71: 619.5 MHz ~ 649.5MHz				
Bandwidth	n66, n71: 5MHz / 10MHz / 15MHz / 20MHz				
SCS	15kHz				
Maximum Output Power to	EN-DC_2A_n66A: 22.96 dBm				
Antenna	EN-DC_2A_n71A: 22.85 dBm				
Antenna Gain	n66 : -2.40 dB				
Antenna Gam	n71 : -7.30 dBi				
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM				
i ype or woudiation	DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM				

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1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

5G NR n66 (EN DC_2A-n66A)		PI/2 BPSK		QPSK	
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW) Maximum EIRP(W)		Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M49F9W	0.1102	4M49G7D	0.1096
10	1715.0 ~ 1775.0	9M07F9W	0.1047	9M05G7D	0.1026
15	1717.5 ~ 1772.5	13M5F9W	0.1099	13M5G7D	0.1050
20 1720.0 ~ 1770.0		18M4F9W	0.1119	18M4G7D	0.1138
Frequency Tolerance (ppm)		0.0037			

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5G NR n66 (EN DC_2A-n66A)		16QAM		64QAM	
BW (MHz) Frequency Range (MHz)		Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	1712.5 ~ 1777.5	4M50W7D	0.0802	4M50W7D	0.0619
10	1715.0 ~ 1775.0	9M09W7D	0.0805	9M05W7D	0.0650
15	1717.5 ~ 1772.5	13M5W7D	0.0757	13M5W7D	0.0653
20	1720.0 ~ 1770.0	18M5W7D	0.0783	18M4W7D	0.0667
Frequency Tolerance (ppm)				-	

5G NR n71 (EN DC_2A-n71A)		PI/2 BPSK		QPSK	
BW (MHz) Frequency Range (MHz)		Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	665.5 ~ 695.5	4M49F9W	0.0219	4M52G7D	0.0216
10	668.0 ~ 693.0	9M07F9W	0.0215	9M05G7D	0.0214
15	670.5 ~ 690.5	13M5F9W	0.0217	13M5G7D	0.0215
20	673.0 ~ 688.0	18M5F9W	0.0217	18M5G7D	0.0215
Frequer	ncy Tolerance (ppm)		0.0	040	

5G NR n71 (EN DC_2A-n71A)		16QAM		64QAM	
BW (MHz) Frequency Range (MHz)		Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	665.5 ~ 695.5	4M54W7D	0.0177	4M49W7D	0.0108
10	668.0 ~ 693.0	9M05W7D	0.0135	9M07W7D	0.0123
15	670.5 ~ 690.5	13M6W7D	0.0173	13M5W7D	0.0105
20	673.0 ~ 688.0	18M5W7D	0.0172	18M4W7D	0.0109
Frequency Tolerance (ppm)				-	

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1.7 Specification of Accessory

	S	pecification of Accessor	ry	
AC Adapter 1 (US)	Brand Name	Motorola (Chenyang)	Model Name	SC-51
AC Adapter 1 (EU)	Brand Name	Motorola (Chenyang)	Model Name	SC-52
AC Adapter 1 (UK)	Brand Name	Motorola (Chenyang)	Model Name	SC-53
AC Adapter 1 (AU)	Brand Name	Motorola (Chenyang)	Model Name	SC-55
AC Adapter 1 (AR)	Brand Name	Motorola (Chenyang)	Model Name	SC-56
AC Adapter 2 (US)	Brand Name	Motorola (Acbel)	Model Name	SC-51
AC Adapter 2 (EU)	Brand Name	Motorola (Acbel)	Model Name	SC-52
AC Adapter 2 (AR)	Brand Name	Motorola (Acbel)	Model Name	SC-56
AC Adapter 3 (IN)	Brand Name	Motorola (Salom)	Model Name	SC-54
USB Cable 1	Brand Name	Motorola(Saibao)	Model Name	SC18C24367
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18C24368
Standard 3.5mm Headset	Brand Name	Motorola	Model Name	SH38C37773 SH38C44959
USB-C to 3.5mm headset adapter	Brand Name	Motorola	Model Name	SC18C27844 SC18C27845

1.8 Testing Location

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

Test Firm	Sporton International (Kunshan) Inc.				
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone				
Test Site Location	Jiangsu Province 215300 People's Republic of China				
rest Site Location	TEL: +86-512-57900158				
	FAX: +86-512-57900958				
	Sporton Sito No	ECC Designation No.	FCC Test Firm		
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.		
	03CH04-KS TH01-KS	CN1257	314309		

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1.9 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.10 Applicable Standards

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

- 47 CFR Part 2, 27
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

All test items were verified and recorded according to the standards and without any deviation during

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

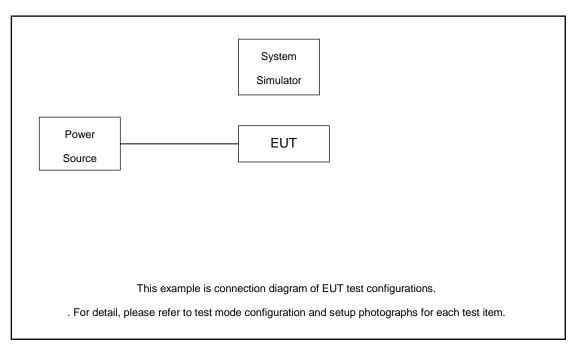
Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

2.2 Connection Diagram of Test System



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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.	NR Base Station	Keysight	E7515B	N/A	N/A	Unshielded, 1.8 m
3.	Fixture	INTEL	NGFF Card Carrier	N/A	N/A	N/A

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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.5 dB.

Example:

 $Offset(dB) = RF \ cable \ loss(dB).$ = 5.5 (dB)

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2.5 Frequency List of Low/Middle/High Channels

5G NR n66 Channel and Frequency List									
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest					
20	Channel	424000	429000	434000					
20	Frequency	1720	1745	1770					
15	Channel	423500	429000	434500					
15	Frequency	1717.5	1745	1772.5					
10	Channel	423000	429000	435000					
10	Frequency	1715	1745	1775					
_	Channel	422500	429000	435500					
5	Frequency	1712.5	1745	1777.5					

	5G NR n71 Cha	nnel and Frequenc	cy List		
BW [MHz]	Channel/Frequency(MHz)	Channel/Frequency(MHz) Lowest Middle			
20	Channel	125400	126900	128400	
20	Frequency	673	680.5	688	
15	Channel	124900	126900	128900	
	Frequency	670.5	680.5	690.5	
10	Channel	124400	126900	129400	
10	Frequency	668	680.5	693	
_	Channel	123900	126900	129900	
5	Frequency	665.5	680.5	695.5	

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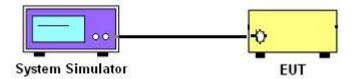
3 Conducted Test Items

3.1 Measuring Instruments

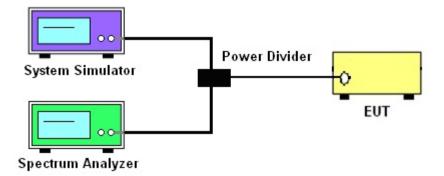
See list of measuring instruments of this test report.

3.2 Test Setup

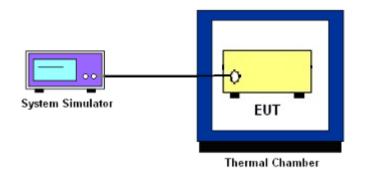
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.

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3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.

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3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The 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 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.4
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 5. Set the detection mode to peak, and the trace mode to max hold.
- 6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured.
- 4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- 6. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB) = -13dBm.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of 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.

3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 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.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 7. Set spectrum analyzer with RMS detector.
- 8. Taking the record of maximum spurious emission.
- 9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
 - = P(W) [43 + 10log(P)] (dB)
 - = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
 - = -13dBm.

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3.9 Frequency Stability

3.9.1 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.

3.9.2 Test Procedures for Temperature Variation

- The testing follows ANSI C63.26 section 5.6.4
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. 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.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

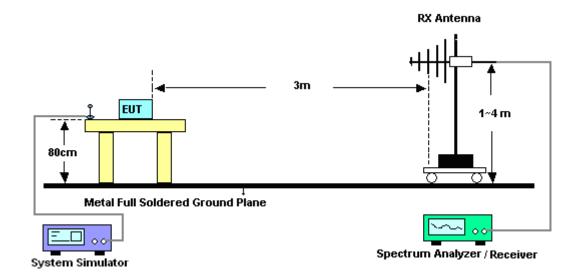
4 Radiated Test Items

4.1 Measuring Instruments

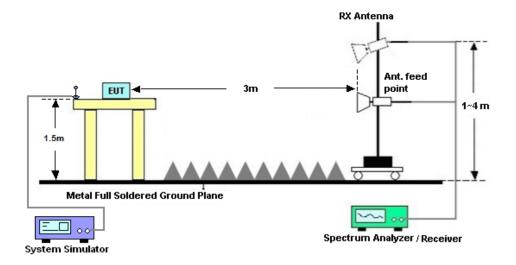
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

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4.4 Radiated Spurious Emission

4.4.1 **Description of Radiated Spurious Emission**

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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 (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 **Test Procedures**

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 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.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

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5 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	Nov. 02, 2019	Jul. 15, 2020~ Jul. 16, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 28, 2019	Jul. 15, 2020~ Jul. 16, 2020	Oct. 27, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Jul. 19, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 02, 2020	Jul. 19, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Jul. 19, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jul. 19, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2020	Jul. 19, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Jul. 19, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 02, 2020	Jul. 19, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Jul. 19, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 19, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 19, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 19, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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6 Uncertainty of Evaluation

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.

<u>Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)</u>

Measuring Uncertainty for a Level of	3.3dB
Confidence of 95% (U = 2Uc(y))	

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

Measuring Uncertainty for a Level of	0.0.15
Confidence of 95% (U = 2Uc(y))	2.8dB

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

Measuring Uncertainty for a Level of	2.8dB
Confidence of 95% (U = $2Uc(y)$)	2.0UD

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Appendix A. Test Results of Conducted Test

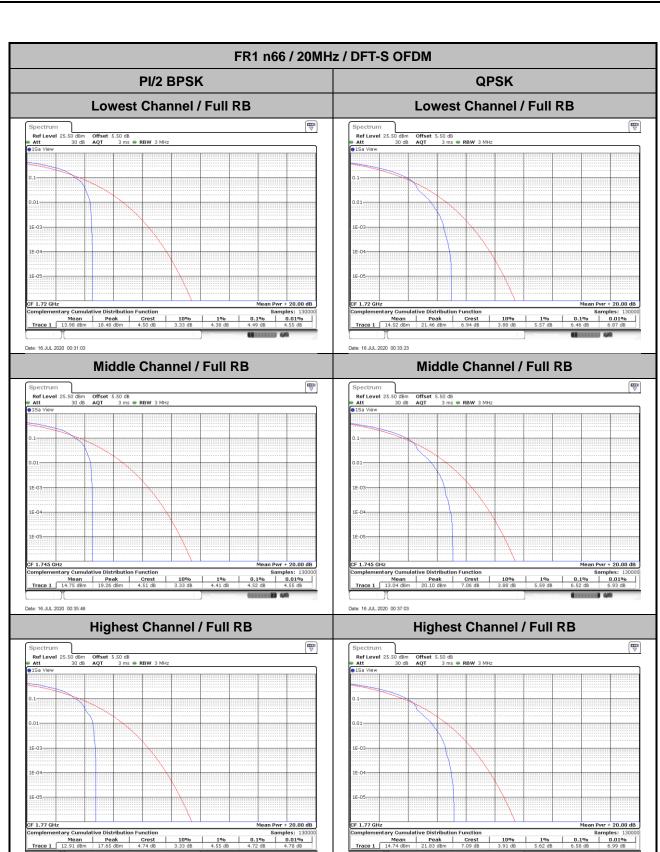
5G NR n66

Peak-to-Average Ratio

Mode		FR1 n66 / 20MHz / DFT-S OFDM					
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB		
RB Size	Full RB	Full RB	Full RB	Full RB	Result		
Lowest CH	4.49	6.46	7.10	7.36			
Middle CH	4.52	6.52	7.19	7.45	PASS		
Highest CH	4.72	6.58	7.16	7.45			
Mode		FR1 n66 / 20MH	z / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB		
RB Size	1 RB0	1 RB0	1 RB0	1 RB0	Result		
Lowest CH	5.65	5.88	6.06	5.65			
Middle CH	4.75	4.49	4.61	4.64	PASS		
Highest CH	4.72	4.81	5.86	4.32			

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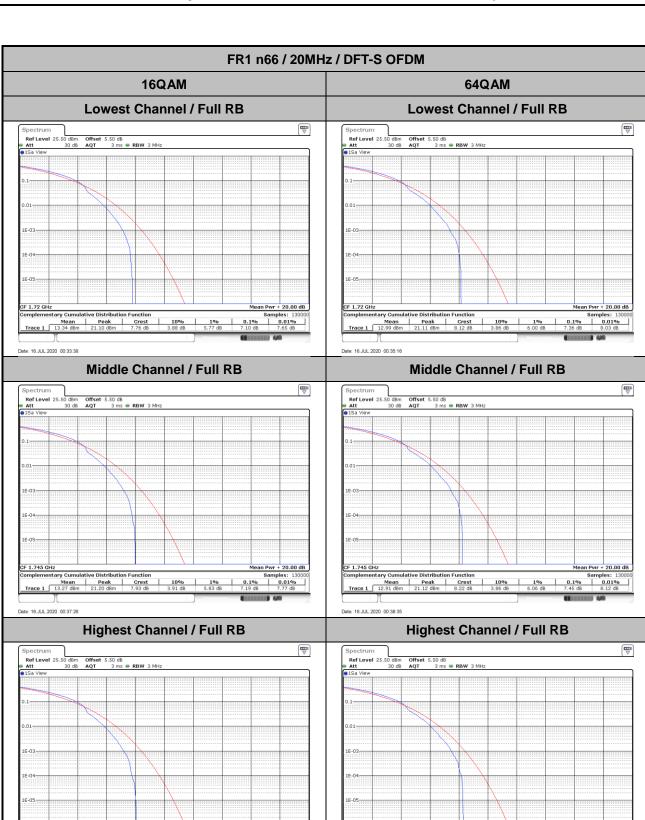
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Date: 16.JUL.2020 00:39:54

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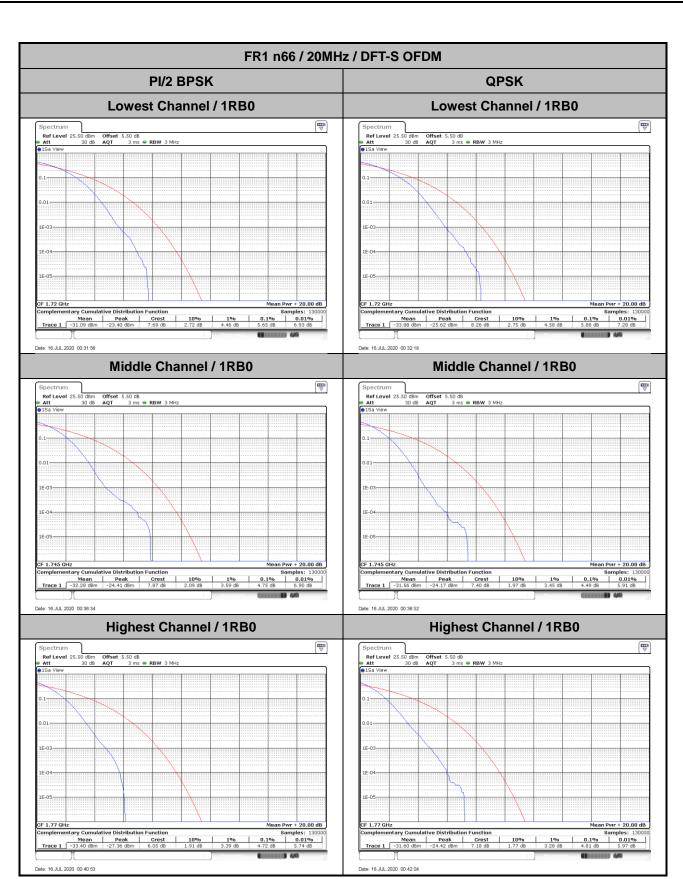


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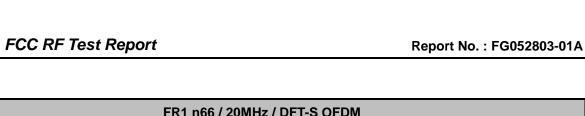
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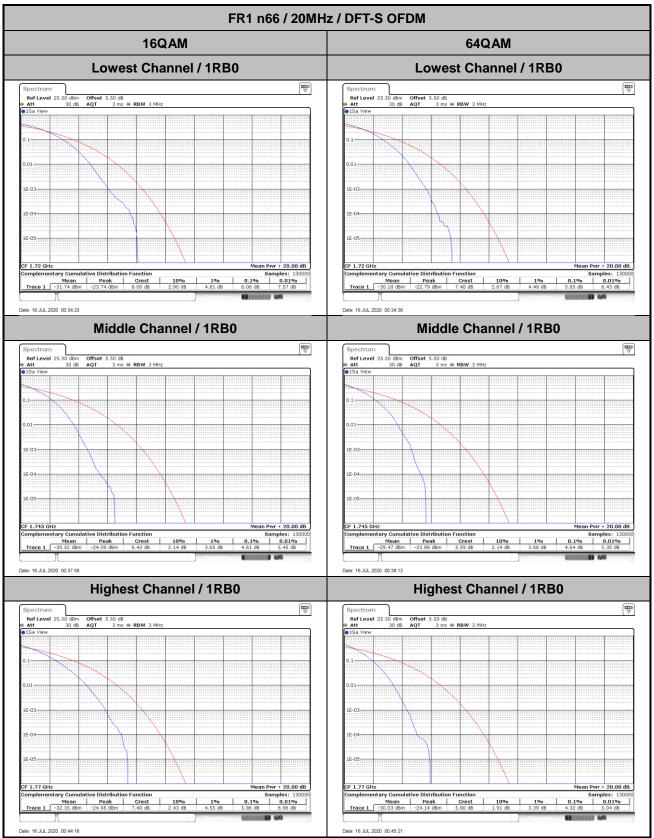
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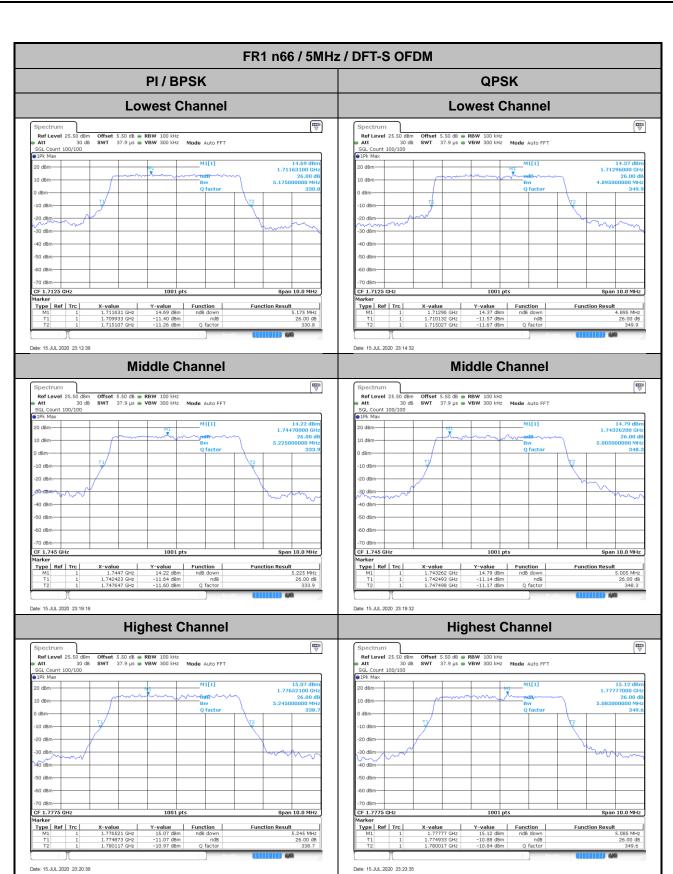
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26dB Bandwidth

Mode		FR1 n66 : 26dB BW(MHz) / DFT-S OFDM								
BW	5M	Hz	10MHz		15MHz		20MHz			
Mod.	PI/BPSK	QPSK	PI/BPSK	QPSK	PI/BPSK	QPSK	PI/BPSK	QPSK		
Lowest CH	5.17	4.89	9.71	9.93	14.39	14.36	20.26	20.30		
Middle CH	5.22	5.00	9.87	9.93	14.36	14.30	20.30	20.30		
Highest CH	5.25	5.08	9.85	9.73	14.24	14.30	20.30	20.26		
Mode			FR1 n66	: 26dB BW	(MHz) / DFT-	SOFDM				
BW	5M	Hz	10N	ЛНz	15N	1Hz	20MHz			
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM		
Lowest CH	4.93	5.17	9.83	9.73	14.42	14.27	20.30	20.26		
Middle CH	5.11	5.06	9.83	9.77	14.54	14.18	20.42	20.26		
Highest CH	5.05	5.21	9.83	9.79	14.39	14.21	20.38	20.22		

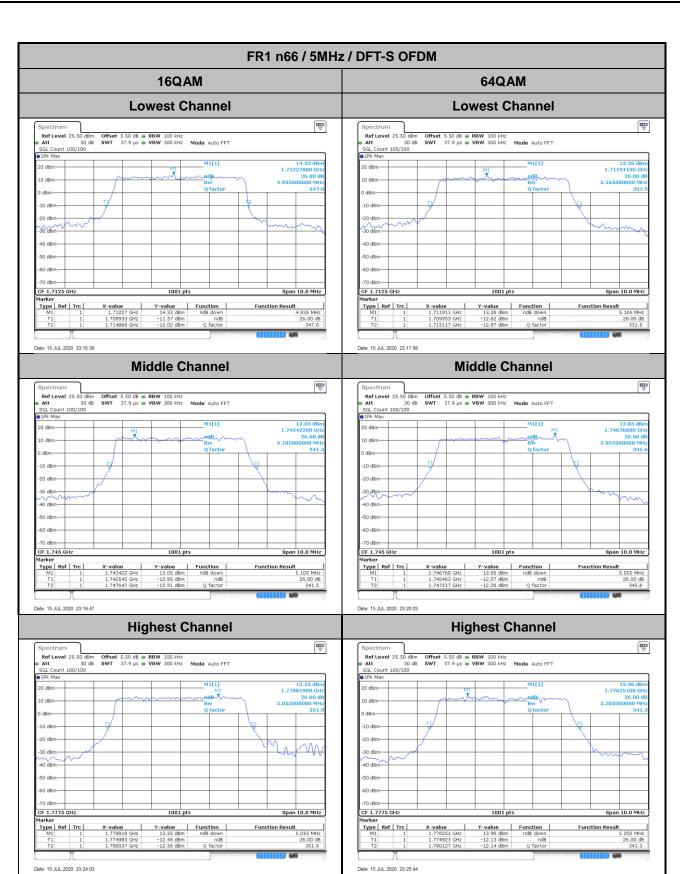
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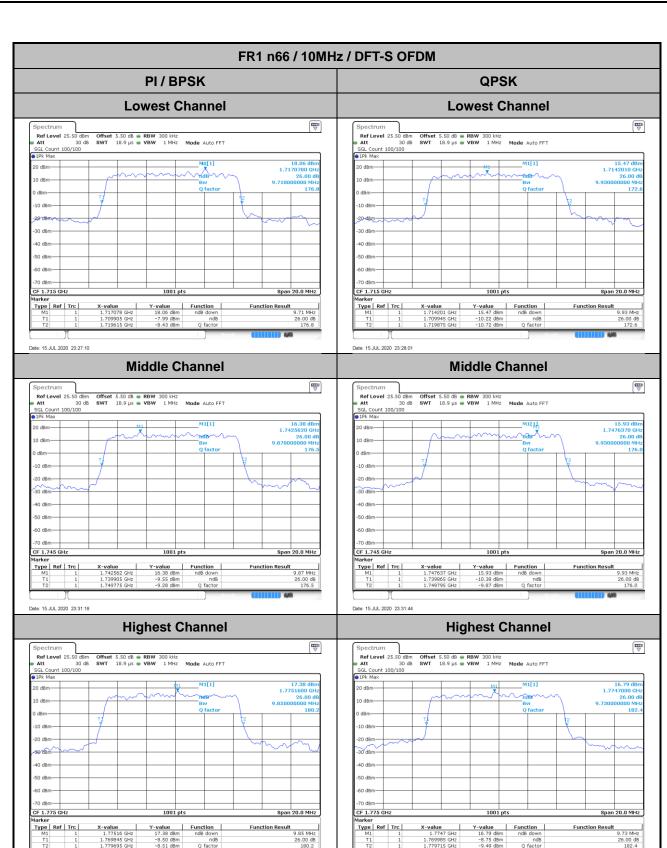
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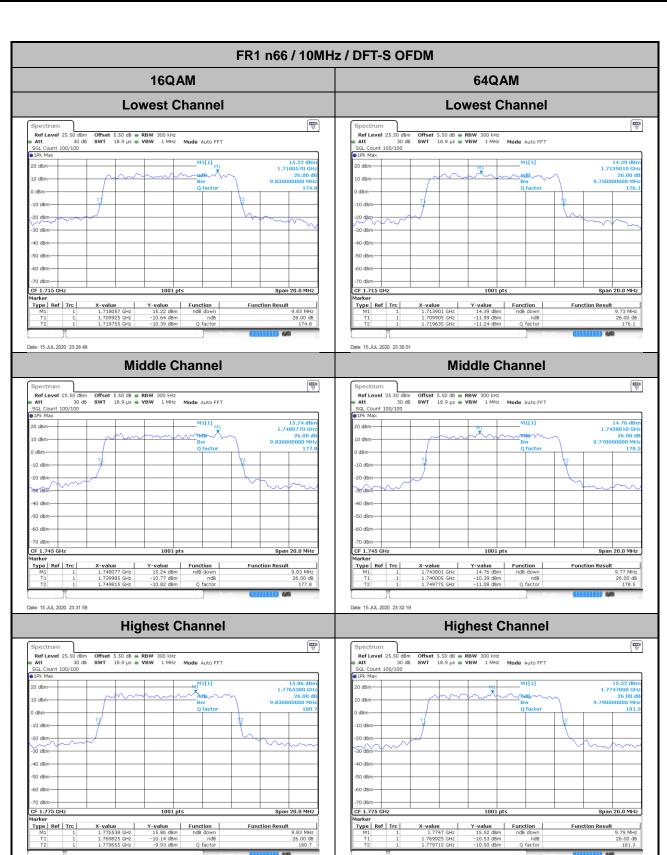
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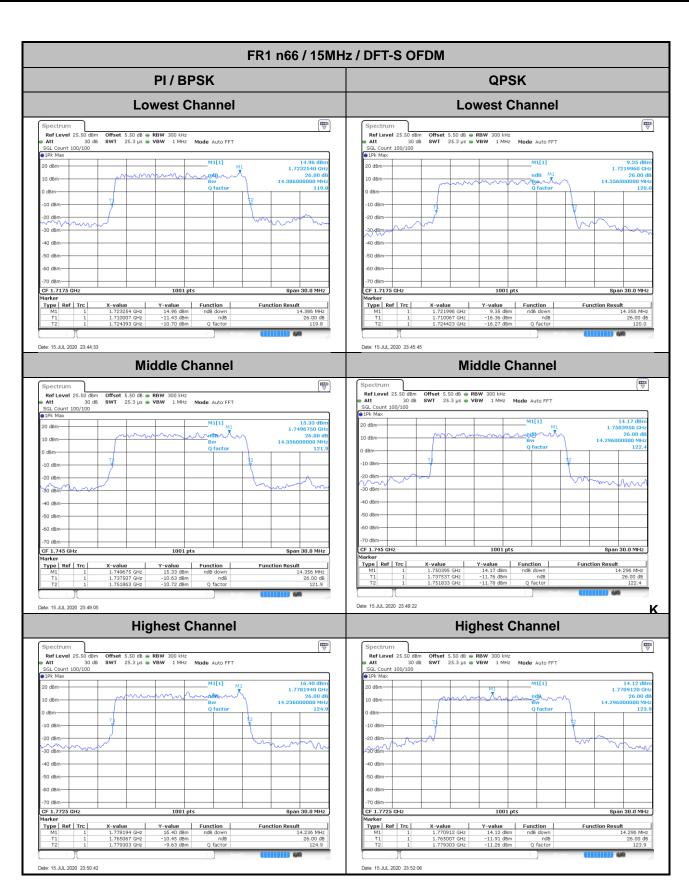
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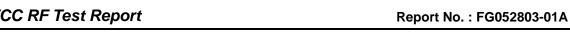
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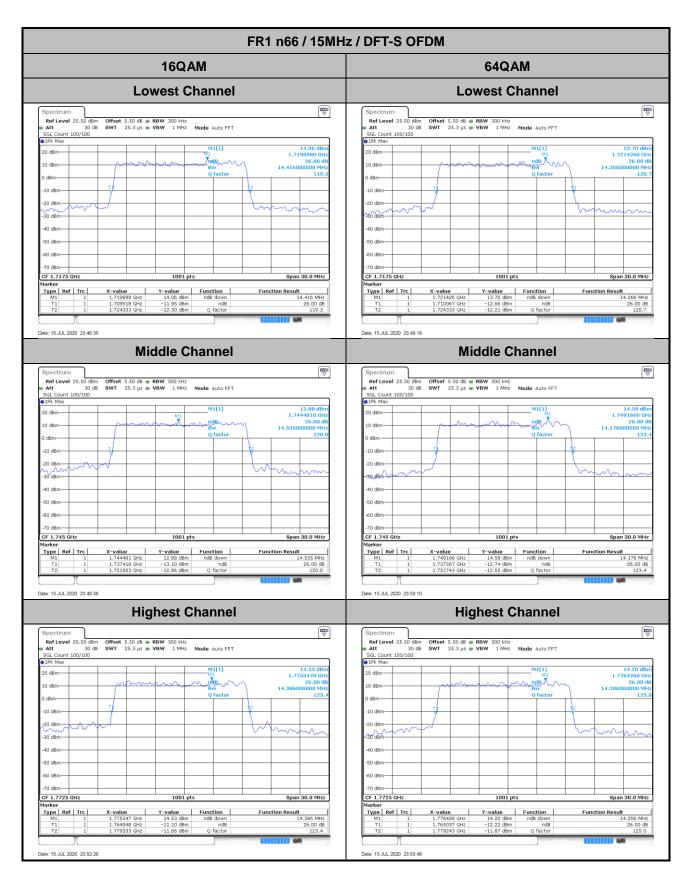
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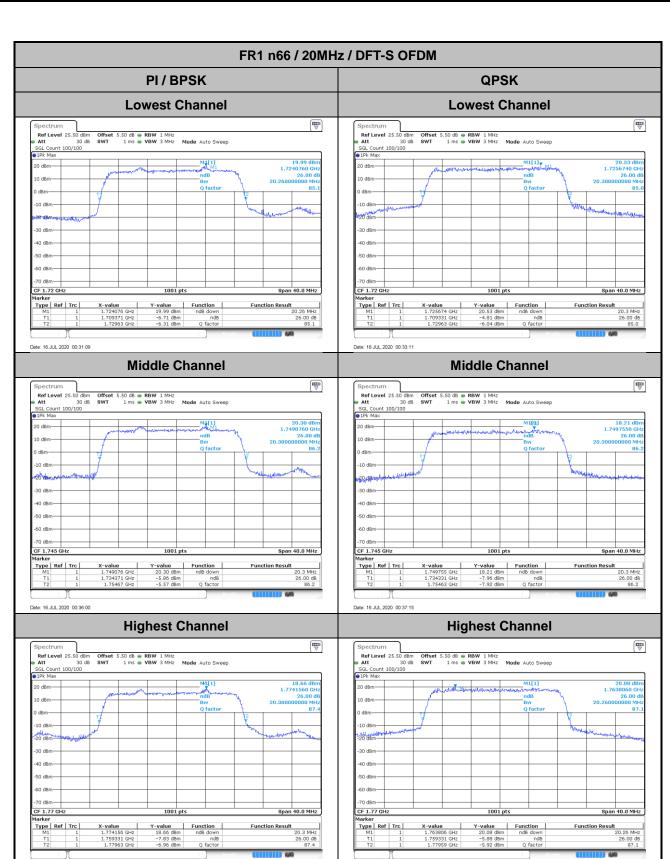
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56ZB1 Page Number : A11 of A112
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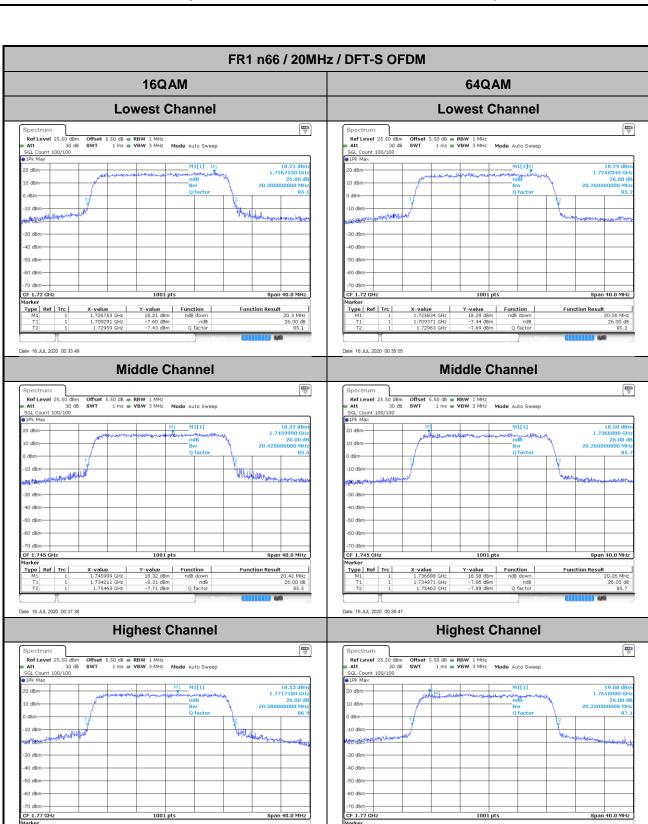
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Date: 16.JUL.2020 00:40:04

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Date: 16.JUL.2020 00:45:44

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Date: 16.JUL.2020 00:43:28

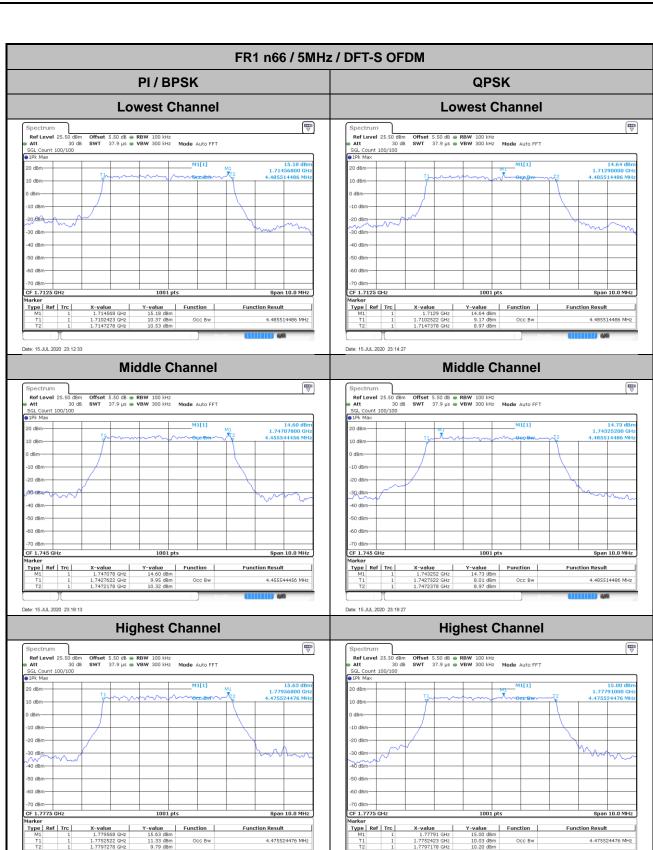
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Occupied Bandwidth

Mode		FR1 n66 : 99%OBW(MHz) / DFT-S OFDM								
BW	5M	Hz	10MHz		15N	15MHz		20MHz		
Mod.	PI/BPSK	QPSK	PI/BPSK	QPSK	PI/BPSK	QPSK	PI/BPSK	QPSK		
Lowest CH	4.49	4.49	9.05	9.05	13.49	13.49	18.38	18.42		
Middle CH	4.46	4.49	9.01	9.03	13.46	13.52	18.38	18.38		
Highest CH	4.48	4.48	9.07	8.99	13.49	13.49	18.42	18.38		
Mode			FR1 n66	: 99%OBW	(MHz) / DFT-	SOFDM				
BW	5M	Hz	10N	1Hz	15MHz 20MHz					
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM		
Lowest CH	4.48	4.50	9.05	9.05	13.49	13.49	18.46	18.42		
Middle CH	4.50	4.48	9.09	9.03	13.46	13.49	18.46	18.38		
Highest CH	4.48	4.49	9.07	9.01	13.46	13.46	18.46	18.34		

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Date: 15.JUL.2020 23:23:43

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Date: 15.JUL.2020 23:20:34

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FR1 n66 / 5MHz / DFT-S OFDM **16QAM 64QAM Lowest Channel Lowest Channel** Offset 5.50 dB ● RBW 100 kHz SWT 37.9 µs ● VBW 300 kHz Mode Auto FFT Offset 5.50 dB ● RBW 100 kHz SWT 37.9 µs ● VBW 300 kHz | Mode Auto FFT 13.23 dBi 1.71381900 GF 4.475524476 MF 13.21 dBn 1.71183100 GH 4.495504496 MH 20 dBm--10 dBm 30 dBm--60 dBm-CF 1.7125 GHz Marker 1001 pts Span 10.0 MHz CF 1.7125 GHz 1001 pts Span 10.0 MHz Type | Ref | Trc | X-value Y-value Function
1.713819 GHz 13.23 dBm Type Ref Trc X-value Y-value Function
1.711831 GHz 13.21 dBm Function Result Function Result Occ Bw 4.475524476 MHz 4.495504496 MHz Date: 15.JUL.2020 23:15:32 Date: 15.JUL.2020 23:17:50 **Middle Channel Middle Channel** 12.79 dBr 1.74544000 20 dBm--20 dBm--30 dBn 50 dBm -60 dBm 1001 pts CF 1.745 GHz Span 10.0 MHz 1001 pts Y-value Function X-value **Function Result** Occ Bw 4.475524476 MHz Date: 15.JUL.2020 23:19:42 Date: 15.JUL.2020 23:19:58 **Highest Channel Highest Channel** 14.87 dBr 1.77727000 GH 1.475524476 MH 14.55 dBr 20 dBm-1001 pts Span 10.0 MHz CF 1.7775 GHz 1001 pts Span 10.0 MHz
 X-value
 Y-value
 Function

 1.77727 GHz
 14.87 dBm
 1.7752622 GHz

 1.7752622 GHz
 9.11 dBm
 Occ Bw

 1.7797378 GHz
 9.48 dBm
 Type Ref Trc Type | Ref | Trc |

Date: 15.JUL.2020 23:25:50

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FR1 n66 / 10MHz / DFT-S OFDM PI/BPSK **QPSK Lowest Channel Lowest Channel** Offset 5.50 dB ● RBW 300 kHz SWT 18.9 µs ● VBW 1 MHz Mode Auto FFT
 Offset
 5.50 dB
 ⊕ RBW
 300 kHz

 SWT
 18.9 µs
 ⊕ VBW
 1 MHz
 Mode
 Auto FFT
 20 dBm--10 dBm 30 dBm -60 dBm-CF 1.715 GHz Marker 1001 pts Span 20.0 MHz CF 1.715 GHz 1001 pts Span 20.0 MHz
 X-value
 Y-value
 Function

 1.712562 GHz
 15.56 dBm
 1.7102847 GHz

 1.7102847 GHz
 10.42 dBm
 Occ BW

 1.7193357 GHz
 10.90 dBm
 Type | Ref | Trc | Type Ref Trc X-value Y-value Function
1.715719 GHz 15.61 dBm Function Result Function Result 9.050949051 MHz 9.050949051 MHz Date: 15.JUL.2020 23:27:04 Date: 15.JUL.2020 23:27:55 **Middle Channel Middle Channel** Ref Level 25.50 dBm

Att 30 dB

SGL Count 100/100

Pk Max 20 dBm--30 dBm -50 dBm--60 dBm Span 20.0 MHz CF 1.745 GHz 1001 pts Span 20.0 MHz 1001 pts Type Ref Trc Type | Ref | Trc | Y-value Function Function Result 16.09 dBm 10.45 dBm Occ Bw 11.07 dBm 9.010989011 MHz Date: 15.JUL.2020 23:31:38 **Highest Channel Highest Channel** 16.74 dBn 1.7758990 16.12 dBn 1.7743210 GH 20 dBm-30 dBm -50 dBm-1001 pts Span 20.0 MHz CF 1.775 GHz 1001 pts Span 20.0 MHz
 X-value
 Y-value
 Function

 1.775899 GHz
 16.74 dBm
 Occ Bw

 1.7702847 GHz
 10.88 dBm
 Occ Bw

 1.7793556 GHz
 10.43 dBm
 Type Ref Trc

Date: 15.JUL.2020 23:34:30

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Date: 15.JUL.2020 23:32:43

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FR1 n66 / 10MHz / DFT-S OFDM **16QAM 64QAM Lowest Channel Lowest Channel** Offset 5.50 dB ● RBW 300 kHz SWT 18.9 µs ● VBW 1 MHz Mode Auto FFT 14.44 dBr 1.7172980 GH 050949051 MH 20 dBm--10 dBm -30 dBm -60 dBm-CF 1.715 GHz 1001 pts Span 20.0 MHz CF 1.715 GHz 1001 pts Span 20.0 MHz X-value Y-value Function
1.718057 GHz 15.29 dBm
1.7102847 GHz Type | Ref | Trc | Type Ref Trc X-value Y-value Function
1.717298 GHz 14.44 dBm Function Result Function Result Occ Bw 9.050949051 MHz 9.050949051 MHz Date: 15.JUL.2020 23:28:43 Date: 15.JUL.2020 23:29:55 **Middle Channel Middle Channel** ### Ref Level 25.50 dBm | Offset 5.50 dB | RBW 300 kHz |
att 30 dB | SWT | 18.9 µs | VBW | 1 MHz | Mode Auto FFT |
SGL Count 100/100 |
61Pk Max | FFT |
SUPPLIES OF THE PROPERTY |
SUPPLIES OF THE PR -60 dBm -60 dBm-Span 20.0 MHz Span 20.0 MHz 1001 pts 1001 pts Y-value Function Y-value Function Type | Ref | Trc | Function Result **Function Result** X-value 14.34 dBm 9.02 dBm Occ Bw 8.58 dBm 9.090909091 MHz Occ Bw 9.030969031 MHz Date: 15.JUL.2020 23:32:10 **Highest Channel Highest Channel** 14.92 dBr 1.7730020 20 dBm-20 dBm 30 dBm -50 dBm-1001 pts Span 20.0 MHz CF 1.775 GHz 1001 pts Span 20.0 MHz
 X-value
 Y-value
 Function

 1.773002 GHz
 14,92 dBm

 1.7702647 GHz
 9,82 dBm
 Occ Bw

 1.7793357 GHz
 9,91 dBm
 Type Ref Trc

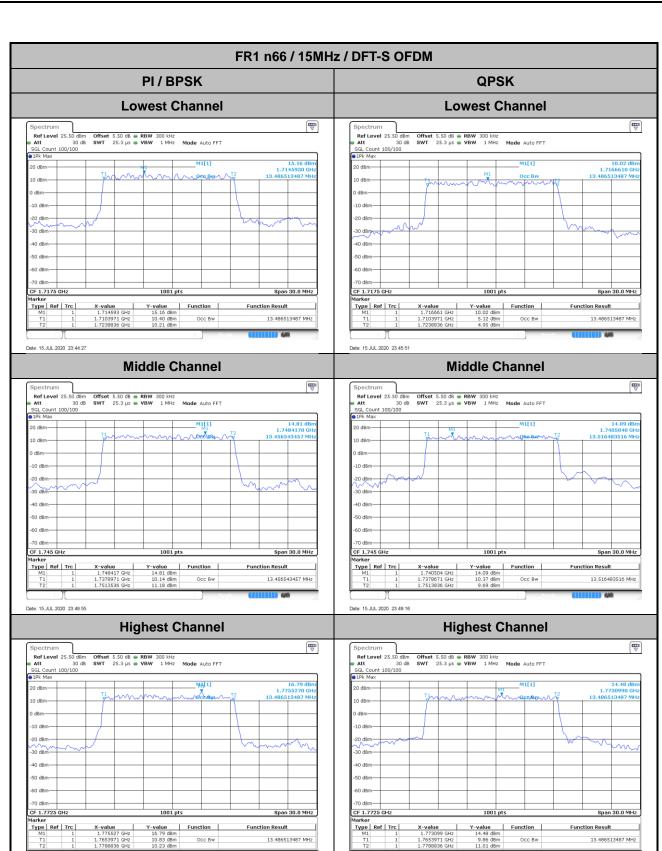
Date: 15.JUL.2020 23:42:51

Sporton International (Kunshan) Inc.

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Date: 15.JUL.2020 23:42:41

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Date: 15.JUL.2020 23:52:12

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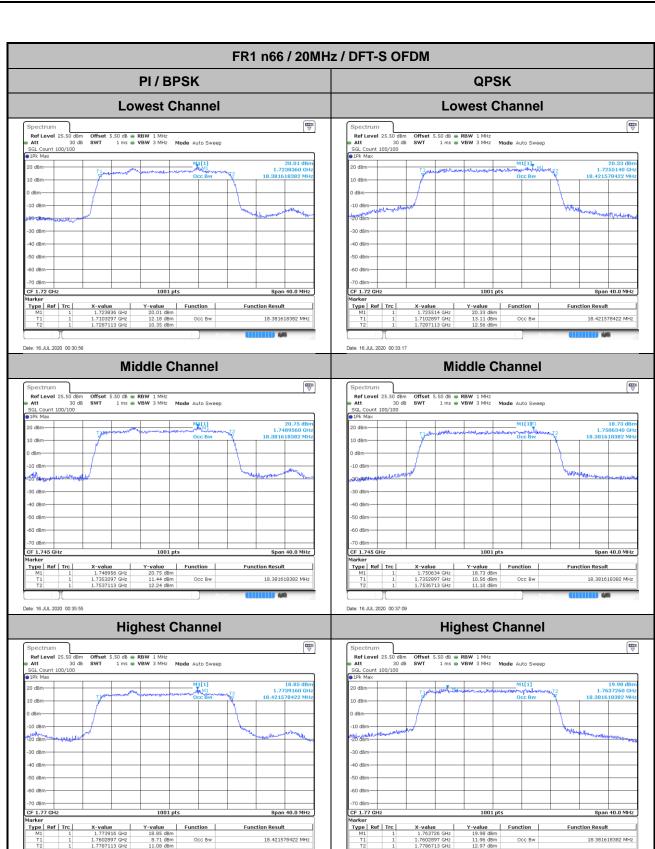
Date: 15.JUL.2020 23:50:36

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Date: 16.JUL.2020 00:42:22

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