

MRT Technology (Taiwan) Co., Ltd

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4G (GM500-U1A) MEASUREMENT REPORT

FCC PART 22H, 24E, 27

FCC ID: TFJA10-T-GM

APPLICANT: Uniform Industrial Corp.

Application Type: Certification

Product: Payment Terminal

Model No.: A10-T

Trademark:

FCC Classification: PCS Licensed Transmitter (PCB)

FCC Rule Part(s): Part2, Part22 Subpart H, Part24 Subpart E, Part27

Test Procedure(s): ANSI/TIA-603-E-2016

Received Date: November 4, 2020

Test Date: November 9 ~16, 2020

Tested By : Peter Syu

(Peter Syu)

Reviewed By : Paddy Chen

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(Chenz Ker)

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The test results only relate to the tested sample.

Approved By

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

FCC ID: TFJA10-T-GM Page Number: 1 of 184





Revision History

Report No.	Version	Description	Issue Date	Note
2011TW5402-U6	1.0	Original Report	2020-12-17	

FCC ID: TFJA10-T-GM Page Number: 2 of 184



CONTENTS

De	scriptio	on	Page
§2.	1033 G	eneral Information	5
1.	INTR	ODUCTION	6
	1.1.	Scope	6
	1.2.	MRT Test Location	6
2.	PROI	DUCT INFORMATION	7
	2.1.	Feature of Equipment under Test	7
	2.2.	Equipment Description	
	2.3.	Device Capabilities	8
	2.4.	Test Configuration	8
	2.5.	EMI Suppression Device(s)/Modifications	8
3.	DESC	CRIPTION OF TEST	9
	3.1.	Evaluation Procedure	9
	3.2.	Cellular – Base Frequency Blocks	9
	3.3.	Cellular – Mobile Frequency Blocks	9
	3.4.	PCS – Base Frequency Blocks	
	3.5.	PCS – Mobile Frequency Blocks	10
	3.6.	Occupied Bandwidth	11
	3.7.	Spurious and Harmonic Emissions at Antenna Terminal	11
	3.8.	Power and Radiated Spurious Emissions	12
	3.9.	Peak-Average Ratio	13
	3.10.	Frequency Stability / Temperature Variation	13
4.	TEST	EQUIPMENT CALIBRATION DATE	14
5.	SAMI	PLE CALCULATIONS	15
6.	MEAS	SUREMENT UNCERTAINTY	16
7.	TEST	* RESULT	17
	7.1.	Summary	17
	7.2.	Occupied Bandwidth	
	7.2.1.		
	7.2.2.	Test Procedure used	19
	7.2.3.	Test Setting	19
	7.2.4.	G .	
	7.2.5.	Test Result	20
	7.3.	Conducted Spurious Emissions	32





7.3.1.	Test Limit	32
7.3.2.	Test Procedure Used	32
7.3.3.	Test Setting	32
7.3.4.	Test Setup	32
7.3.5.	Test Result	33
7.4.	Band Edge at Antenna Terminal	87
7.4.1.	Test Limit	87
7.4.2.	Test Procedure Used	87
7.4.3.	Test Setting	87
7.4.4.	Test Setup	88
7.4.5.	Test Result	89
7.5.	Power and Radiated Spurious Emissions	129
7.5.1	Test Limit	129
7.5.2	Test Procedure Used	129
7.5.3	Test Setting	130
7.5.4	Test Setup	132
7.5.5	Test Result	133
7.6.	Peak-Average Ratio	167
7.6.1	Test Limit	167
7.6.2	Test Procedure	167
7.6.3	Test Setup	167
7.6.4	Test Result	168
7.7.	Frequency Stability Under Temperature & Voltage Variations	180
7.7.1	Test Limit	180
7.7.2	Test Procedure	180
7.7.3	Test Setup	180
7.7.4	Test Result	181



§2.1033 General Information

Applicant	Uniform Industrial Corp.
Applicant Address	47341 Bayside Parkway, Fremont, California 94538, United States
Manufacturer	Uniform Industrial Corp.
Manufacturer Address	1F, No.1, Lane 15, Ziqiang St., Tucheng Dist., New Taipei City 236, Taiwan
Test Site	MRT Technology (Taiwan) Co., Ltd
Test Site Address	No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)
MRT FCC Registration No.	153292
FCC Rule Part(s)	Part 22H, Part 24E, Part27
Test Device Serial No.	#2 (IMEI: 861473040042050) □ Production □ Engineering

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Fuxing Rd., Taoyuan, Taiwan (R.O.C)

- MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
- MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
- MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Taiwan, EU and TELEC Rules.

FCC ID: TFJA10-T-GM Page Number: 5 of 184



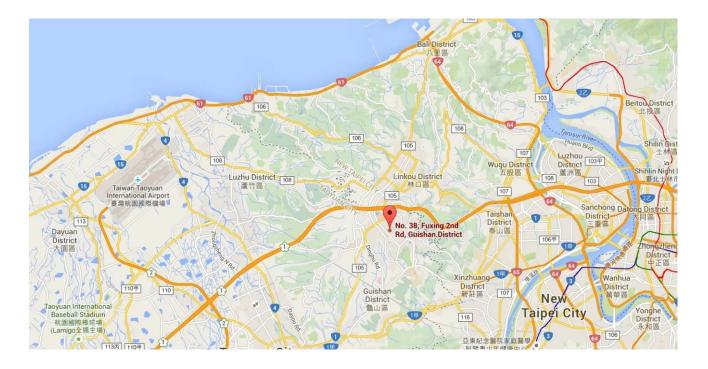
1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).





2. PRODUCT INFORMATION

2.1. Feature of Equipment under Test

Product Name	Payment Terminal
Model No.	A10-T
Trademark	O UIC [®]
	wwan:
	Module: GM500-U1A
Supports Radios Spee	3G: Band 2, 5
Supports Radios Spec.	4G: Band 2,4,5,12
	RFID:
	13.56MHz
4G Operation Band (s)	Band 2, 4, 5, 12 (GM500-U1A)
	Band2: 1850MHz-1910MHz
Francisco Dongo	Band4: 1710MHz–1755MHz
Frequency Range	Band5: 824MHz-849MHz
	Band12: 699MHz–716MHz
	MFR: Powertron Electronics Corp.
Power Adenter (1)	Model No: PA1050-090T1A500
Power Adapter (1)	Input: AC 100-240V~1.8A, 50-60Hz
	Output: DC 9.0V, 5.0A
	MFR: BILLION
Power Adapter (2)	Model No: BA048-090500MAX
Power Adapter (2)	Input: AC 100-240V~1.5A, 50-60Hz
	Output: DC 9.0V, 5.0A

FCC ID: TFJA10-T-GM Page Number: 7 of 184



2.2. Equipment Description

Antenna Type	FPCB
Antenna M/N	N/A
Antenna Gain	Band 2: 1.75dBi, Band 4: 1.07dBi, Band 5: 3.68dBi, Band 12: 0.75dBi
Type of Modulation	QPSK, 16QAM

Note: The test report has showed the worst test mode.

2.3. Device Capabilities

This device contains the following capabilities:

LTE Band 2, 4, 5, 12

2.4. Test Configuration

The **Payment Terminal** was tested per the guidance of ANSI/TIA-603-E-2016 and KDB 971168 D01v03r01. See section 3.0 of this report for a description of the radiated and antenna port conducted emissions tests.

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

FCC ID: TFJA10-T-GM Page Number: 8 of 184



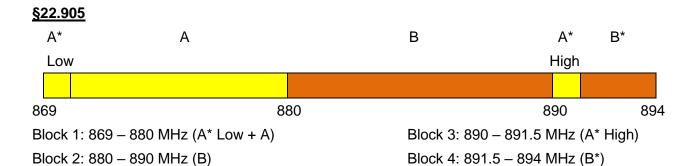
3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

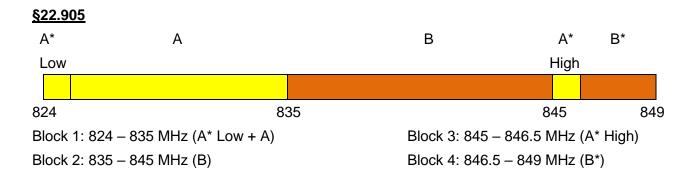
The measurement procedures described in the "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-E-2016) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168) were used in the measurement of the **Payment Terminal**

Deviation from measurement procedure......None

3.2. Cellular - Base Frequency Blocks



3.3. Cellular - Mobile Frequency Blocks

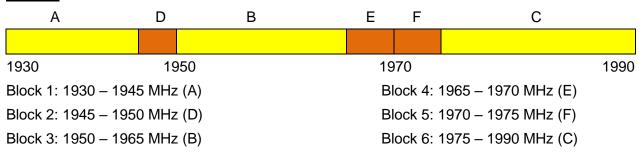


FCC ID: TFJA10-T-GM Page Number: 9 of 184



3.4. PCS - Base Frequency Blocks

§24.229



3.5. PCS - Mobile Frequency Blocks

§24.229

A	D	В	Е	F	С	
1850	1870		1	890		1910
Block 1: 1850 – 1	865 MHz (A)		E	Block 4:	1885 – 1890 MHz (E)	
Block 2: 1865 – 1	870 MHz (D)		E	Block 5:	1890 – 1895 MHz (F)	
Block 3: 1870 – 1	885 MHz (B)		E	Block 6:	1895 – 1910 MHz (C)	

FCC ID: TFJA10-T-GM Page Number: 10 of 184



3.6. Occupied Bandwidth

§2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The spectrum analyzers' "occupied bandwidth" measurement function was used to record the occupied bandwidth in accordance with KDB 971168.

3.7. Spurious and Harmonic Emissions at Antenna Terminal

§2.1051 §22.917(a) §24.238(a)

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for Part 22. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

FCC ID: TFJA10-T-GM Page Number: 11 of 184



3.8. Power and Radiated Spurious Emissions

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurement and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 80cm high PVC support structure is placed on top of the turntable.

The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-E-2016, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

Pd [dBm] = Pg [dBm] - cable loss [dB] + antenna gain [dBd/dBi]

Where, Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB].

The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10*log10(Power [Watts]) specified in 22.917(a).

FCC ID: TFJA10-T-GM Page Number: 12 of 184



3.9. Peak-Average Ratio

§24.232(d)

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

For pulsed signals, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power. For continuous signals, the trigger is set to "free run" in the CCDF measurement mode.

3.10. Frequency Stability / Temperature Variation

§2.1055 §22.355 §22.863 §22.905 §24.229 §24.235

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – For Part 22, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

FCC ID: TFJA10-T-GM Page Number: 13 of 184



4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2021/3/26
Cable	Rosnol	N1C50-RG400-B 1C50-500CM	MRTTWE00013	1 year	2021/6/21
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2021/3/25

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2021/10/5
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2021/3/25
Acitve Loop Antenna	Schwarzbeck	FMZB 1519B	MRTTWA00002	1 year	2021/4/27
Broadband Horn antenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2021/4/24
Breitband Hornantenna	Schwarzbeck	BBHA 9170	MRTTWA00004	1 year	2021/4/24
Broadband Amplifier	Schwarzbeck	BBV 9721	MRTTWA00006	1 year	2021/4/24
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2021/4/24
Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2021/6/16
Coblo	Doonal	K1K50-UP0264-	MPTTWEOOAA	1,400	2021/6/21
Cable	Rosnol	K1K50-4M	MRTTWE00012	1 year	2021/6/21

Conducted Test Equipment – SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2021/10/14
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTTWA00074	1 year	2021/7/14
USB Wideband Power Sensor	KEYSIGHT	U2021XA	MRTTWA00015	1 year	2021/3/26
Wideband Radio Communication Taster	R&S	CMW 500	MRTTWA00041	1 year	2021/1/7

Test Software

Software	Version	Function	
e3	9.160520a	EMI Test Software	
ЕМІ	V3	EMI Test Software	

FCC ID: TFJA10-T-GM Page Number: 14 of 184



5. SAMPLE CALCULATIONS

GSM Emission Designator

Emission Designator = 250KGXW

GSM BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EGPRS Emission Designator

Emission Designator = 250KG7W

GSM BW = 250 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA / CDMA Emission Designator

Emission Designator = 1M25F9W

WCDMA BW = 1.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

LTE Emission Designator

Emission Designator = QPSK 5M00G7D / 16QAM 5M00W7D

LTE BW = 1.4/3/5/10/15/20 MHz

QPSK G = Phase Modulation /

16QAM W= in a combination of two or more of the following modes: amplitude, angle, pulse

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

Spurious Radiated Emission

Example: Spurious emission at 1688.10 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was –65.0dBm. The gain of the substituted antenna is 6.5dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of –65.0dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 4.5 dB at 1688.1MHz. So 2 dB is added to the signal generator reading of –25dBm yielding –23dBm. The fundamental EIRP was 24.0dBm so this harmonic was 24.0dBm – (-23) = 47dBc.

FCC ID: TFJA10-T-GM Page Number: 15 of 184



6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Radiated Emission Measurement - AC1

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 4.22dB

FCC ID: TFJA10-T-GM Page Number: 16 of 184



7. TEST RESULT

7.1. Summary

Company Name: <u>Uniform Industrial Corp.</u>

FCC Classification: PCS Licensed Transmitter (PCB)

Mode(s): <u>LTE Band 2, 4, 5, 12</u>

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
Transmitter	Mode(TX)				
2.1049	Occupied bandwidth	N/A		Pass	Section 7.2
2.1051					
22.917(a)		> 43 + 10log ₁₀ (P[Watts]) at			
24.238(a)		for all out-of-band emissions			
27.53(c)	Conducted Spurious	(Band 2,4,5,12,13,17)		Pass	Section 7.3
27.52(h)	Emissions			Pass	Section 7.3
2.1051		> 55 + 10log ₁₀ (P[Watts]) at			
2.1051 27.53(m)		for all out-of-band emissions			
27.55(111)		(Band 7)	Conducted		
2.1051				Pass	Section 7.4
22.917(a)		> 43 + 10log ₁₀ (P[Watts]) at			
24.238(a)		for all out-of-band emissions			
27.53(c)	Band Edge	Tot all out-of-parid ethissions			
27.52(h)					
27.53(m)		27.53(m)(4)			
2.1046	Conducted Output	N/A		Pass	Section 7.5
	Power				
22.913(a)		< 7 Watts max. ERP		Pass	
22.0.0(a)		(Band 5)	_		
24.232(c)	Radiated Output Power	< 2 Watts max. EIRP		Pass	
27.50(h)		(Band 2, 7)	Radiated	1 400	Section 7.5
27.50(b)		< 3 Watts max. ERP	radiatod	Pass	
27.00(0)		(Band 12,13)		. 400	
27.50(d)		< 1 Watts max. EIRP		Pass	
27.50(a)		(Band 4)		1 433	

FCC ID: TFJA10-T-GM Page Number: 17 of 184



2.1053 22.917(a)		> 43 + log ₁₀ (P[Watts]) for all			
24.238(a)		out-of-band emissions			
27.53(c)	Radiated Spurious	(Band 2,4,5,12,13,17)	Radiated	Pass	Section 7.5
27.53(h)	Emissions		Radialed	Pass	Section 7.5
2.1053		> 55 + 10log ₁₀ (P[Watts]) for			
		all out-of-band emissions			
27.53(m)		(Band 7)			
24.232(d)	Peak-Average Ratio	<13dB		Pass	Section 7.6
27.50(B)	reak-Average Natio	<130B		Fass	Section 7.0
2.1055		< 2.5 ppm			
22.355		< 2.5 μμπ	Conducted		
2.1055	Frequency Stability			Pass	Section 7.7
24.235		Within Authorized Band			
27.54					

Notes:

- 1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.

FCC ID: TFJA10-T-GM Page Number: 18 of 184



7.2. Occupied Bandwidth

7.2.1. Test Limit

N/A

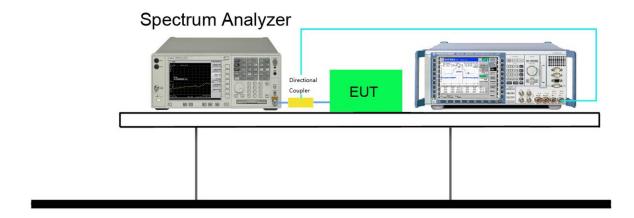
7.2.2. Test Procedure used

KDB 971168 D01v03r01 - Section 4.2 & ANSI/TIA-603-E-2016

7.2.3. Test Setting

- 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.
- 2. 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. (RBW = approximately 1% of the emission bandwidth).
- 3. Set the detection mode to peak, and the trace mode to max hold.
- 4. Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

7.2.4. Test Setup



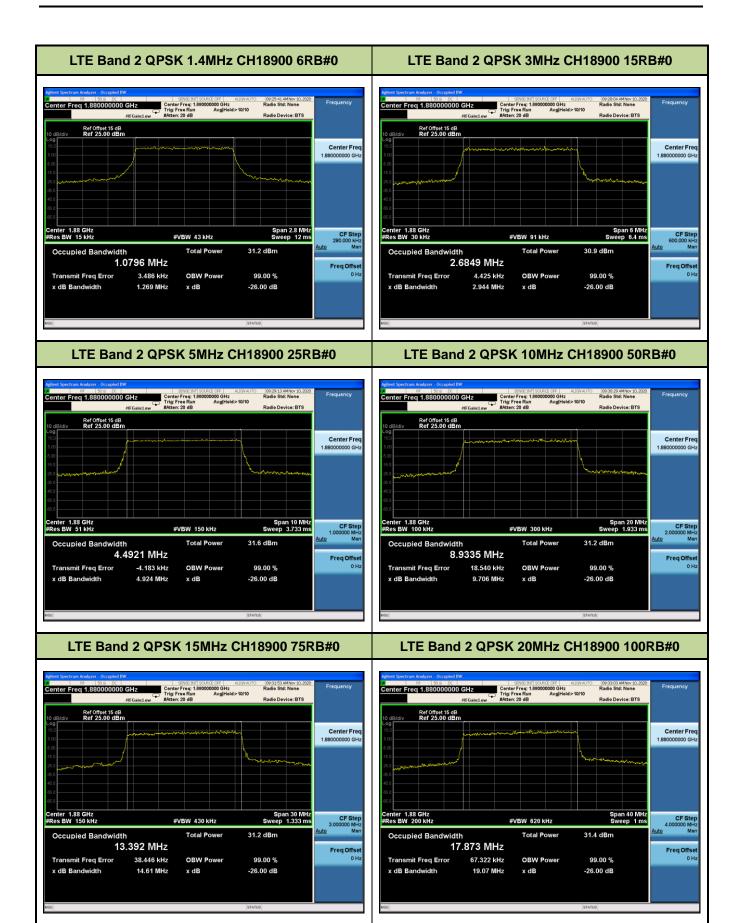
FCC ID: TFJA10-T-GM Page Number: 19 of 184



7.2.5. Test Result

Test Mode	Channel/ Frequency (MHz)	Modulation	Bandwidth (MHz)	RB Size	RB Offset	99% Occupied Bandwidth (MHz)	-26dB Occupied Bandwidth (MHz)	Test Result
			1.4	6	0	1.0796	1.2690	Pass
			3	15	0	2.6849	2.9440	Pass
			5	25	0	4.4921	4.9240	Pass
			10	50	0	8.9335	9.7060	Pass
			15	75	0	13.3920	14.6100	Pass
LET	CH18900		20	100	0	17.8730	19.0700	Pass
Band 2	(1880MHz)		1.4	6	0	1.0798	1.2600	Pass
			3	15	0	2.6838	2.9190	Pass
			5	25	0	4.4782	4.9680	Pass
			10	50	0	8.9322	9.7300	Pass
			15	75	0	13.4020	14.3900	Pass
			20	100	0	17.8850	18.9400	Pass





FCC ID: TFJA10-T-GM Page Number: 21 of 184





FCC ID: TFJA10-T-GM Page Number: 22 of 184



Test Mode	Channel/ Frequency (MHz)	Modulation	Bandwidth (MHz)	RB Size	RB Offset	99% Occupied Bandwidth (MHz)	-26dB Occupied Bandwidth (MHz)	Test Result
			1.4	6	0	1.0799	1.2510	Pass
			3	15	0	2.6776	2.9350	Pass
			5	25	0	4.4875	4.8950	Pass
			10	50	0	8.9449	9.7850	Pass
			15	75	0	13.4010	14.4700	Pass
LET	LET CH20175		20	100	0	17.8640	19.1500	Pass
Band 4	(1732.5MHz)		1.4	6	0	1.0809	1.2430	Pass
			3	15	0	2.6944	2.9240	Pass
			5	25	0	4.4850	4.9480	Pass
			10	50	0	8.9315	9.6800	Pass
			15	75	0	13.3850	14.4300	Pass
			20	100	0	17.8420	19.0400	Pass





FCC ID: TFJA10-T-GM Page Number: 24 of 184





FCC ID: TFJA10-T-GM Page Number: 25 of 184



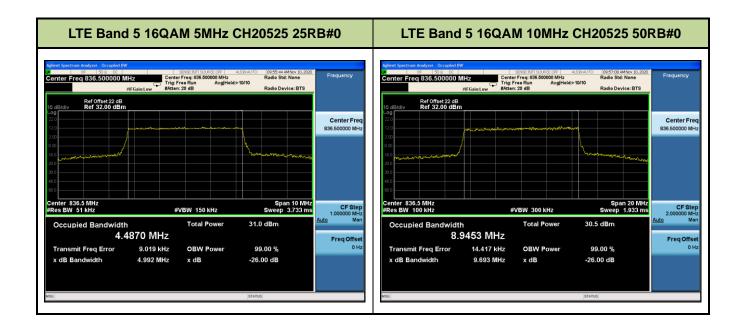
Test Mode	Channel/ Frequency (MHz)	Modulation	Bandwidth (MHz)	RB Size	RB Offset	99% Occupied Bandwidth (MHz)	-26dB Occupied Bandwidth (MHz)	Test Result
			1.4	6	0	1.0853	1.2620	Pass
			3	15	0	2.6856	2.9480	Pass
			5	25	0	4.4948	4.9530	Pass
LET	CH20525		10	50	0	8.9563	9.8210	Pass
Band 5	(836.5MHz)		1.4	6	0	1.0873	1.2850	Pass
			3	15	0	2.6888	2.9560	Pass
			5	25	0	4.4870	4.9920	Pass
			10	50	0	8.9453	9.6930	Pass





FCC ID: TFJA10-T-GM Page Number: 27 of 184







Test Mode	Channel/ Frequency (MHz)	Modulation	Bandwidth (MHz)	RB Size	RB Offset	99% Occupied Bandwidth (MHz)	-26dB Occupied Bandwidth (MHz)	Test Result
			1.4	6	0	1.0786	1.2590	Pass
		QPSK	3	15	0	2.6818	2.9120	Pass
			5	25	0	4.4852	4.9210	Pass
LET	CH23095		10	50	0	8.9456	9.6640	Pass
Band 12	(707.5MHz)	16QAM	1.4	6	0	1.0808	1.2520	Pass
			3	15	0	2.6863	2.9460	Pass
			5	25	0	4.4793	4.9100	Pass
			10	50	0	8.9302	9.6500	Pass





FCC ID: TFJA10-T-GM Page Number: 30 of 184

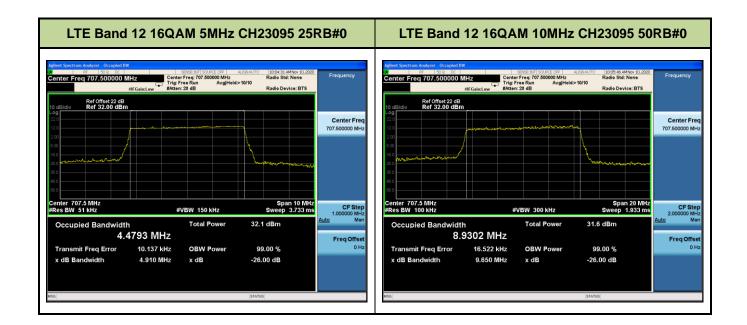
2.946 MHz

-26.00 dB

1.252 MHz

-26.00 dB







7.3. Conducted Spurious Emissions

7.3.1. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log_{10}(P)$ dB for Band $2,4,5,12,13,17/55+10\log_{10}(P)$ dB for Band7.

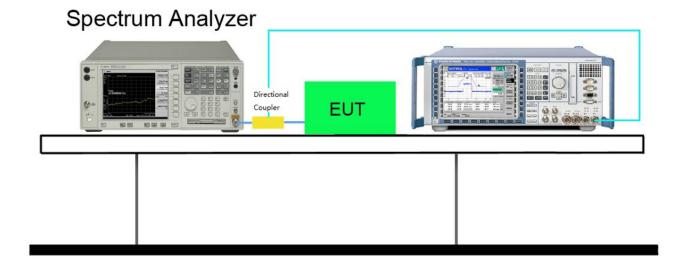
7.3.2. Test Procedure Used

KDB 971168 D01v03r01 - Section 6.0 & ANSI/TIA-603-E-2016

7.3.3. Test Setting

Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz is at or below 1GHz and 1MHz is above 1GHz, If any, up to 10th harmonic.

7.3.4. Test Setup



FCC ID: TFJA10-T-GM Page Number: 32 of 184



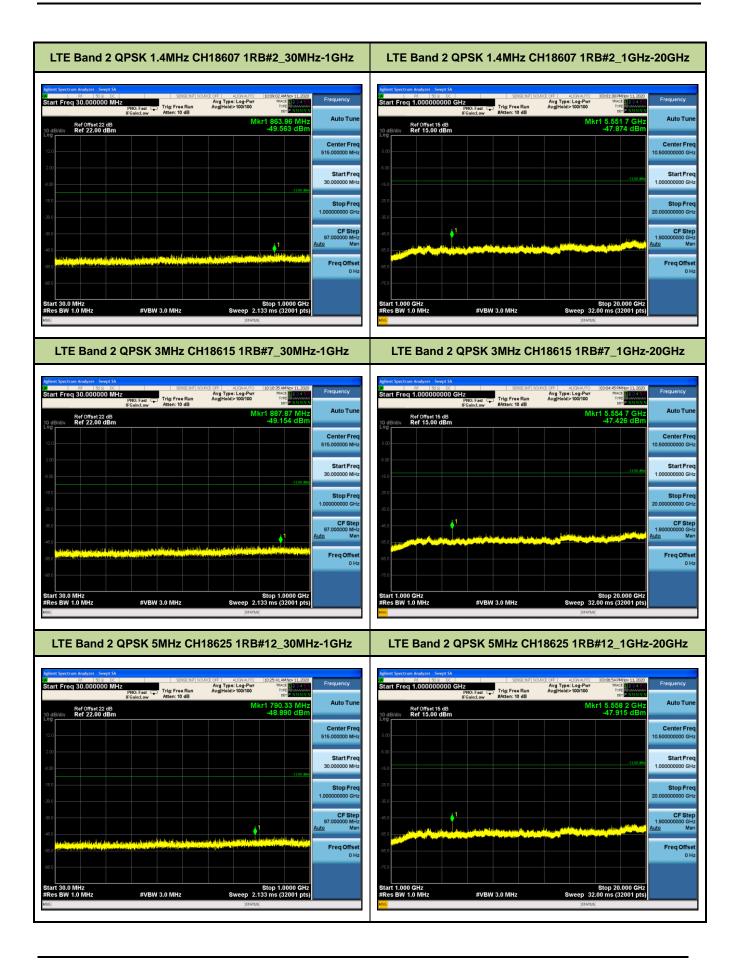
7.3.5. Test Result

Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
		CH18607 / 1850.7MHz	1.4	1	2	Pass
		CH18615 / 1851.5MHz	3	1	7	Pass
	QPSK	CH18625 / 1852.5MHz	5	1	12	Pass
	QFSK	CH18650 / 1855MHz	10	1	25	Pass
		CH18675 / 1857.5MHz	15	1	36	Pass
LTE Band 2		CH18700 / 1860MHz	20	1	49	Pass
(Low Channel)		CH18607 / 1850.7MHz	1.4	1	2	Pass
	16QAM	CH18615 / 1851.5MHz	3	1	7	Pass
		CH18625 / 1852.5MHz	5	1	12	Pass
		CH18650 / 1855MHz	10	1	25	Pass
		CH18675 / 1857.5MHz	15	1	36	Pass
		CH18700 / 1860MHz	20	1	49	Pass
			1.4	1	2	Pass
			3	1	7	Pass
			5	1	12	Pass
	QPSK		10	1	25	Pass
			15	1	36	Pass
LTE Band 2		01140000 / 4000141	20	1	49	Pass
(Middle		CH18900 / 1880MHz	1.4	1	2	Pass
Channel)			3	1	7	Pass
	400		5	1	12	Pass
	16QAM		10	1	25	Pass
			15	1	36	Pass
			20	1	49	Pass



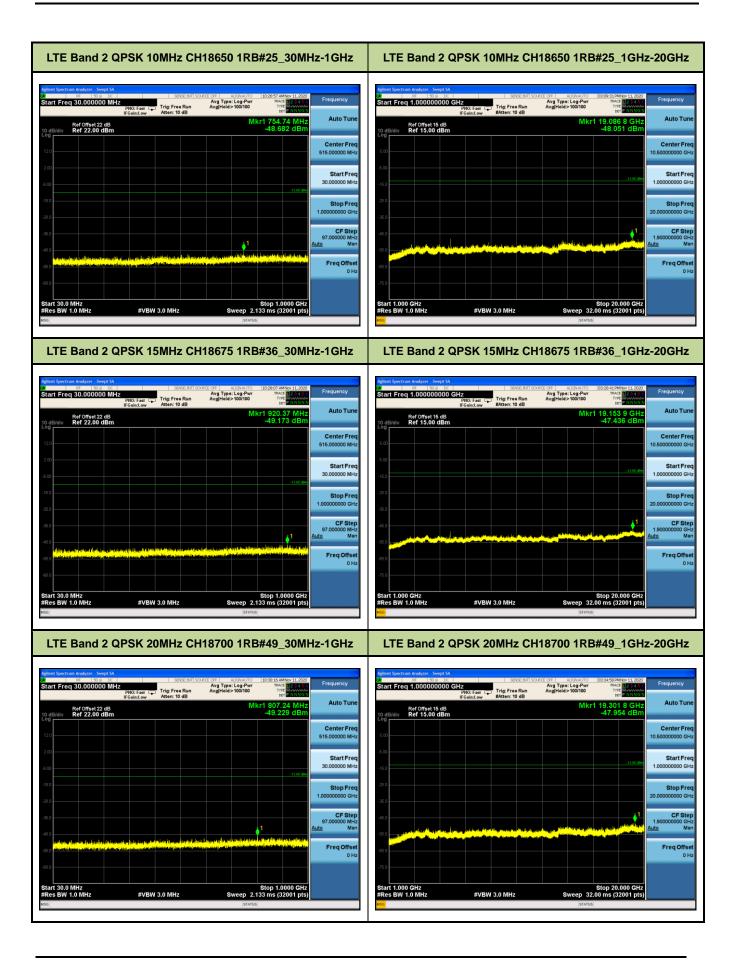
Test Mode	Modulation	Channel/ Frequency (MHz)	Bandwidth (MHz)	RB Size	RB Offset	Test Result
		CH19193 / 1909.3MHz	1.4	1	2	Pass
		CH19185 / 1908.5MHz	3	1	7	Pass
	QPSK	CH19175 / 1907.5MHz	5	1	12	Pass
		CH19150 / 1905MHz	10	1	25	Pass
LTC David O		CH19125 / 1902.5MHz	15	1	36	Pass
LTE Band 2		CH19100 / 1900MHz	20	1	49	Pass
(High		CH19193 / 1909.3MHz	1.4	1	2	Pass
Channel)		CH19185 / 1908.5MHz	3	1	7	Pass
	10001	CH19175 / 1907.5MHz	5	1	12	Pass
	16QAM	CH19150 / 1905MHz	10	1	25	Pass
		CH19125 / 1902.5MHz	15	1	36	Pass
		CH19100 / 1900MHz	20	1	49	Pass





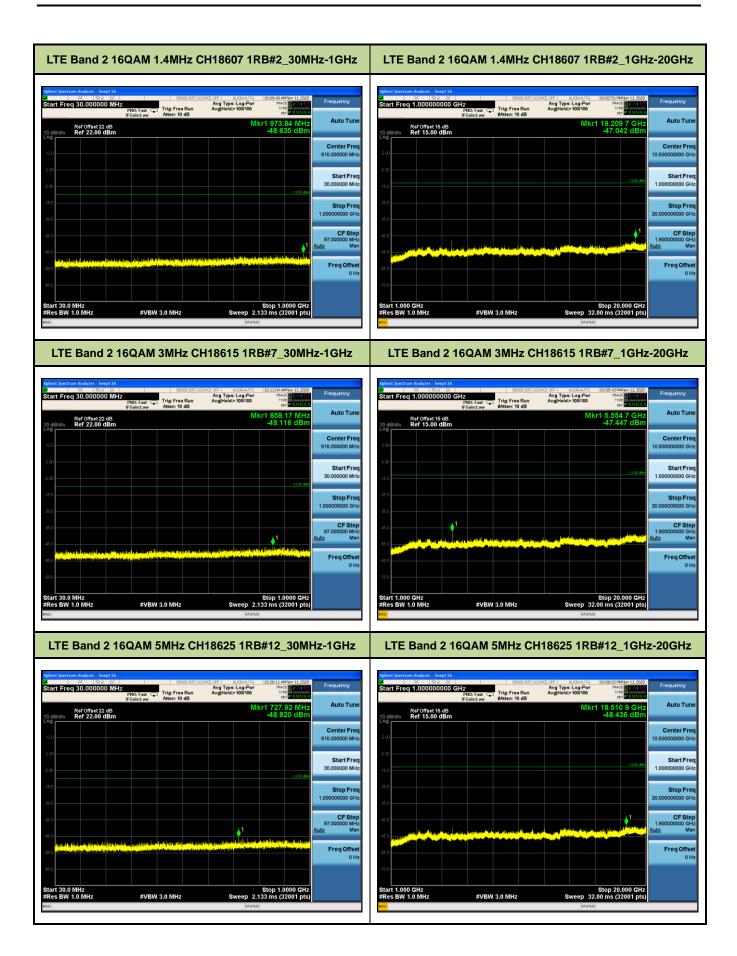
FCC ID: TFJA10-T-GM Page Number: 35 of 184





FCC ID: TFJA10-T-GM Page Number: 36 of 184





FCC ID: TFJA10-T-GM Page Number: 37 of 184