







Report No.: EESZG12310051 Page 1 of 38

# **TEST REPORT**

**Product** Blue Tooth Remote Shutter

Trade mark N/A

Model/Type reference 080082976

Serial number N/A

**Ratings** DC<sub>3</sub>V

FCC ID 2ADX8-360

Report number EESZG12310051

Jan. 06, 2015 Date

See below Regulations

Test Standards	Results
	PASS

## Prepared for:

Import Marketing Solutions, Inc 355 East Kellogg Blvd, St Paul, MN 55101, United States

## Prepared by:

**Centre Testing International (Shenzhen) Corporation** Hongwei Industrial Zone, 70 Area, Bao'an District, Shenzhen, Guangdong, China

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Tested

Reviewed by:

Approved by:

Jimmv Li Lab manager Date:

Jan. 06, 2015

Check No.: 1022534287

















TABLE OF CONTENTS

1. GE	NERAL INFORMATION					
2. TE	ST SUMMARY					
3. PR	ODUCT INFORMATION					
4. ME	ASUREMENT UNCERTAINTY					
5. TES	ST EQUIPMENT LIST				(65)	
6. SU	PPORT EQUIPMENT LIST					
7. 200	DB BANDWIDTH MEASUREMENT					
7.1.	LIMITS					160
7.2.	BLOCK DIAGRAM OF TEST SETUP					
7.3.	TEST PROCEDURE					
7.4.	TEST RESULT					
8. CA	RRIER FREQUENCY SEPARATION					
8.1.	LIMITS					
8.2.	BLOCK DIAGRAM OF TEST SETUP					
8.3.	TEST PROCEDURE					
8.4.	TEST RESULT					
9. NU	MBER OF HOPPING FREQUENCY					1
9.1.	LIMITS		(6.)		(0,)	1
	BLOCK DIAGRAM OF TEST SETUP					
9.3.	TEST PROCEDURE					
9.4.	TEST RESULT					
10.	TIME OF OCCUPANCY (DWELL TIME)					
10.1.	LIMITS					1
10.2.	BLOCK DIAGRAM OF TEST SETUP					1
10.3.	TEST PROCEDURE		(V)			1
10.4.	TEST RESULT					1
11. I	MAXIMUM PEAK CONDUCTED OUTPL	JT POWER	MEASUREME	NT		2









11.1.	LIMITS			20
11.2.	BLOCK DIAGRAM OF TEST SETUP			20
11.3.	TEST PROCEDURE			20
11.4.	TEST RESULT			20
12.	CONDUCTED BANDEDGE EMISSION MEASURE	MENT		22
12.				
12.1.	LIMITS			23
12.2.	BLOCK DIAGRAM OF TEST SETUP			23
12.3.	TEST PROCEDURE			23
12.4.	TEST RESULT			23
13.	CONDUCTED SPURIOUS EMISSION MEASUREN	MENT		26
13.				
13.1.	LIMITS			
13.2.	BLOCK DIAGRAM OF TEST SETUP			
13.3.	TEST PROCEDURE			26
13.4.	TEST RESULT			26
14. I	RADIATED BANDEDGE EMISSION / RADIATED S	SPURIOUS EMISSION	I MEASUREMENT	29
14.1.	LIMITS		(20)	29
14.2.	BLOCK DIAGRAM OF TEST SETUP			29
14.3.	TEST PROCEDURE			30
14.4.	TEST RESULT			31
APPENI	DIX 1 PHOTOGRAPHS OF TEST SETUP	<u>(6</u>	<u>)</u>	34
APPENI	DIX 2 EXTERNAL PHOTOGRAPHS OF PRODUCT			35
APPENI	DIX 3 INTERNAL PHOTOGRAPHS OF PRODUCT			36
N/A me	eans not applicable.			





































Report No.: EESZG12310051 Page 4 of 38

## 1. GENERAL INFORMATION

**Applicant:** Import Marketing Solutions, Inc

355 East Kellogg Blvd, St Paul, MN 55101, United States

Manufacturer: Ningbo Jiaqi Plastic Co., Ltd

**FCC ID**: 2ADX8-360

**Product:** Blue Tooth Remote Shutter

Model/Type reference: 080082976

Trade mark: N/A

Serial Number: N/A

Report Number: EESZG12310051

Sample Received Date: Dec. 29, 2014

**Sample tested Date:** Dec. 29, 2014 to Jan. 05, 2015

The above equipment was tested by Centre Testing International (Shenzhen) Corporation for compliance with the requirements set forth in the FCC Rules and the measurement procedure according to ANSI C63.4:2009.

## 2. TEST SUMMARY

No.	Test Item	Rule	Test Result
1	20dB bandwidth	FCC 15.247(a)(1)	PASS
2	Carrier Frequency Separation	FCC15.247(a)(1)	PASS
3	Number of Hopping Frequency	FCC 15.247(a)(iii)	PASS
4	Time of Occupancy (Dwell Time)	FCC 15.247(a)(iii)	PASS
5	Maximum Peak Conducted Output Power	FCC 15.247(b)(1)	PASS
6	Conducted Bandedge Emission / Conducted Spurious Emission	FCC PART15.247(d)	PASS
7	Radiated Bandedge Emission / Radiated Spurious Emission	FCC PART15.247(d)	PASS
8	AC Conducted Emission	FCC PART15.207	(3
9	Antenna Requirements *	FCC PART15.203	PASS (See Notes)

<sup>\*:</sup> According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The EUT has a built in antenna which is a short wire solder on the PCB, this is permanently attached antenna and meets the requirements of this section.



















Report No.: EESZG12310051 Page 5 of 38

## 3. PRODUCT INFORMATION

Items		Description	
Rating	DC 3V		
Type of Modulation	GFSK (1Mbps)		
Antenna Type	Integral antenna		
Frequency Range	2402 ~ 2480 MHz	(6)	
Gain	0dBi		

## 4. MEASUREMENT UNCERTAINTY

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

Measurement items	Uncertainty
Conducted Emission Test	3.2 dB
Radiated Emissions / Bandedge Emission	4.5 dB

# 5. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		06/01/2016
Receiver	R&S	ESCI	100435	07/19/2015
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	617	06/25/2015
Multi device Controller	maturo	NCD/070/10711 112	(2)	N/A
Horn Antenna	ETS-LINGREN	3117	00057407	07/19/2015
Microwave Preamplifier	Agilent	8449B	3008A02425	03/19/2015
Spectrum Analyzer	R&S	FSP40	100416	07/06/2015

# 6. SUPPORT EQUIPMENT LIST

Device Type	Brand	Model	Data Cable	Remark
		(4)	(41)	
		(O)	(8)	































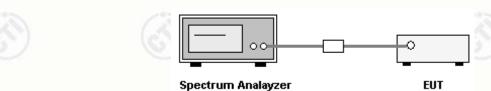
Page 6 of 38

## 7. 20dB Bandwidth Measurement

### 7.1. LIMITS

None

## 7.2. BLOCK DIAGRAM OF TEST SETUP



#### 7.3. TEST PROCEDURE

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW ≥ 1% of the 20 dB bandwidth; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 4. Measure and record the results in the test report.

#### 7.4. TEST RESULT

The test data of worst case are below:

## **GFSK:**

Frequency (MHz)	20dB BW (kHz)
2402	703.5
2441	703.5
2480	703.5











































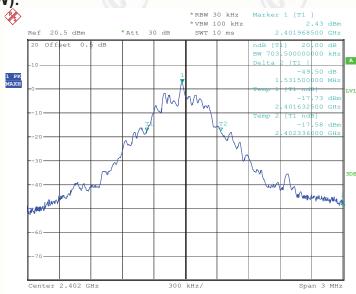




Page 7 of 38

# Please see the following plots (worst case):

# GFSK (20dB BW):



Date: 29.DEC.2014 15:38:54

# 2402 MHz



2441 MHz













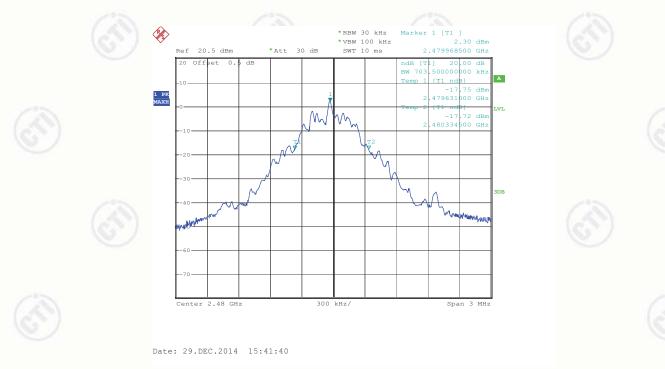








Page 8 of 38

































































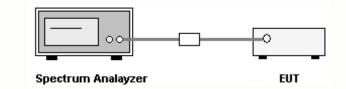
Page 9 of 38

## 8. CARRIER FREQUENCY SEPARATION

#### 8.1. LIMITS

Frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

#### 8.2. BLOCK DIAGRAM OF TEST SETUP

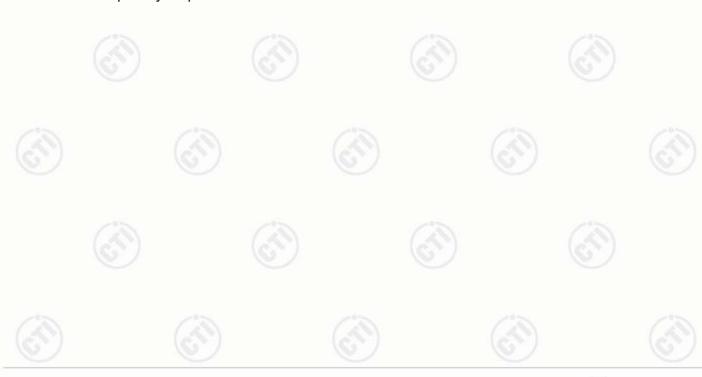


#### 8.3. TEST PROCEDURE

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Enable the EUT hopping function.
- 4. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW ≥ 1% of the span; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 5. Measure and record the results in the test report.

#### 8.4. TEST RESULT

Carrier Frequency Separation: 1 MHz







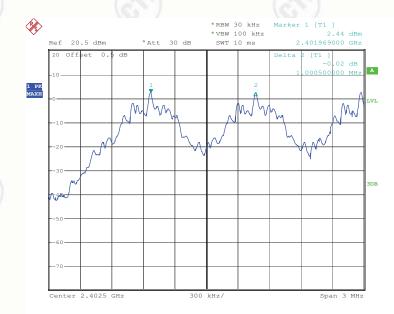




Page 10 of 38

# Please see the following plots (worst case):

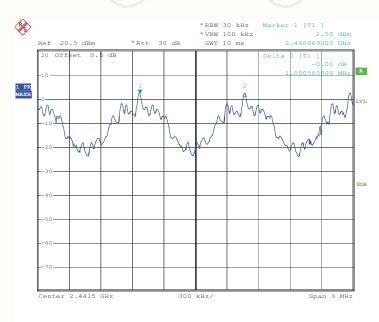
**GFSK:** 



Date: 29.DEC.2014 18:03:53



## Low channel



Date: 29.DEC.2014 18:00:07

Middle channel



















Report No.: EESZG12310051

\*RBW 30 kHz \*VBW 100 kHz SWT 10 ms Marker 1 [T1 ]
2.31 dBm
2.478967500 GHz Ref 20.5 dBm \*Att 30 dB











Date: 29.DEC.2014 17:56:44

Center 2.4795 GHz

High channel







Span 3 MHz























































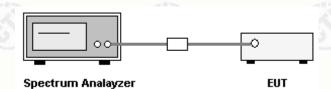


## 9. NUMBER OF HOPPING FREQUENCY

#### 9.1. LIMITS

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

#### 9.2. BLOCK DIAGRAM OF TEST SETUP



#### 9.3. TEST PROCEDURE

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Enable the EUT hopping function.
- 4. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW ≥ 1% of the span; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 5. The number of hopping frequency used is defined as the number of total channel.
- 6. Record the measurement data derived from spectrum analyzer.

#### 9.4. TEST RESULT

Number of Hopping Frequency is 79, with frequency space = 1MHz.









































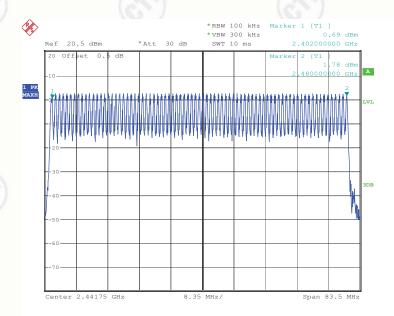




Page 13 of 38

# Please see the following plots (worst case):

**GFSK:** 























































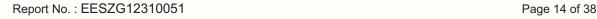




400-6788-333

Hotline



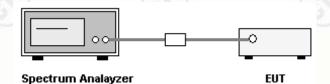


## 10. TIME OF OCCUPANCY (DWELL TIME)

## **10.1. LIMITS**

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

## 10.2. BLOCK DIAGRAM OF TEST SETUP



#### 10.3. TEST PROCEDURE

1. The RF output of EUT was connected to the spectrum analyzer by RF cable.

The path loss was compensated to the results for each measurement.

- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Enable the EUT hopping function.
- 4. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
- 5. Measure and record the results in the test report.

## 10.4. TEST RESULT

The test data of worst case (GFSK mode) are below:

Frequency (MHz)	Pulse \	Wide(ms)	Dwell Time (ms)	Limit (s)	Result (Pass / Fail)
	DH1	0.435	139.20		
2402	DH3	1.685	269.60	0.4	Pass
	DH5	2.92	311.48	(	
(6)	DH1	0.425	136.00		
2441	DH3	1.675	268.00	0.4	Pass
0	DH5	2.93	312.54		
	DH1	0.43	137.60		(4
2480	DH3	1.67	267.20	0.4	Pass
	DH5	2.93	312.54		

#### Remark:

DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, total hops is  $10.12 \times 31.6 = 320$ 

DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, total hops is  $5.06 \times 31.6 = 160$ 

DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, total hops is  $3.37 \times 31.6 = 106.67$ 



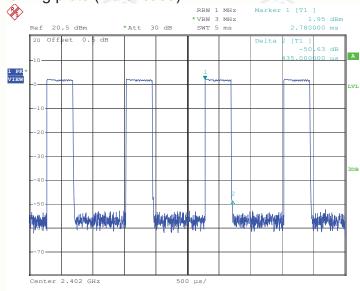






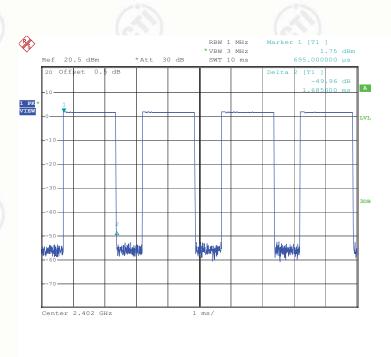
Page 15 of 38

# Please see the following plots (worst case):



Date: 29.DEC.2014 17:34:26

# 2402 MHz\_DH1



Date: 29.DEC.2014 17:37:51

2402 MHz DH3















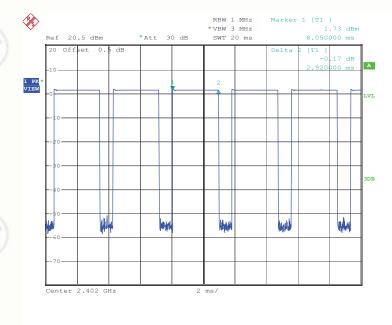






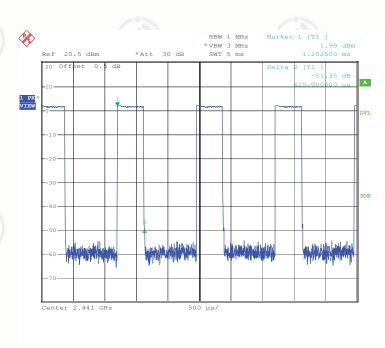
Report No.: EESZG12310051

Page 16 of 38



Date: 29.DEC.2014 17:38:41

# 2402 MHz\_DH5



Date: 29.DEC.2014 17:35:09

2441 MHz\_DH1











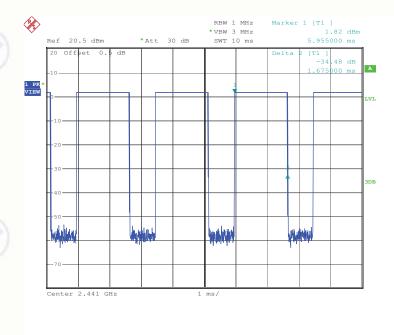








Page 17 of 38



Date: 29.DEC.2014 17:37:20

# 2441 MHz\_DH3



2441 MHz\_DH5











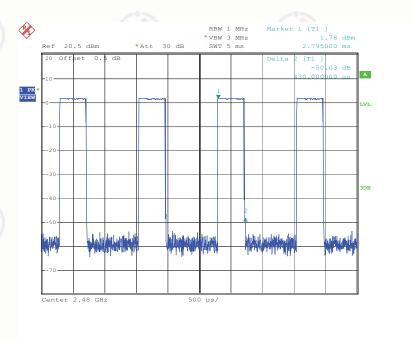






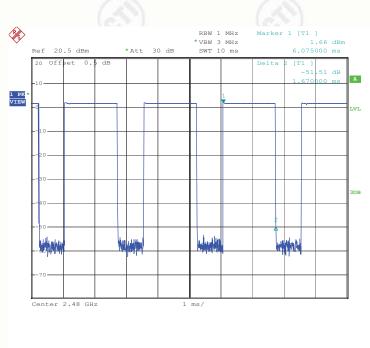


Page 18 of 38



Date: 29.DEC.2014 17:36:06

# 2480 MHz\_DH1



Date: 29.DEC.2014 17:36:44

2480 MHz\_DH3



















Report No.: EESZG12310051

Page 19 of 38





2480 MHz\_DH5































































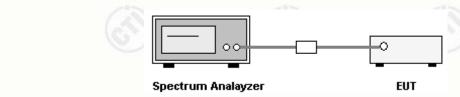
Report No. : EESZG12310051 Page 20 of 38

## 11. MAXIMUM PEAK CONDUCTED OUTPUT POWER MEASUREMENT

#### 11.1. **LIMITS**

The limit for peak output power is 0.125Watt (21 dBm).

#### 11.2. BLOCK DIAGRAM OF TEST SETUP



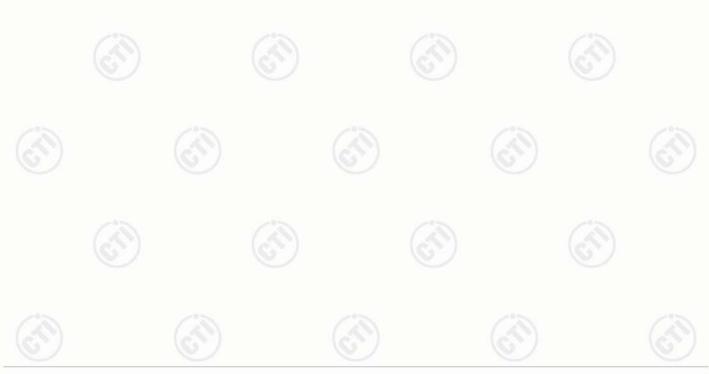
#### 11.3. TEST PROCEDURE

- 1. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Measure the conducted output power with cable loss and record the results in the test report.
- 4. Measure and record the results in the test report.

## 11.4. TEST RESULT

The test data of worst case (GFSK mode) are below:

Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result (Pass / Fail)
2402	2.19	21	Pass
2441	2.28	21	Pass
2480	2.07	21	Pass





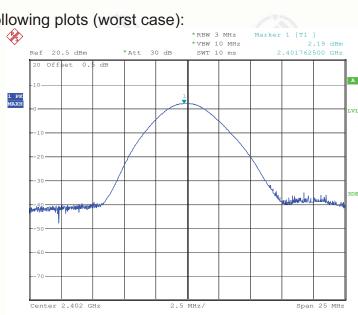






Page 21 of 38

# Please see the following plots (worst case):



Date: 29.DEC.2014 14:50:14

## 2402MHz



# 2441MHz













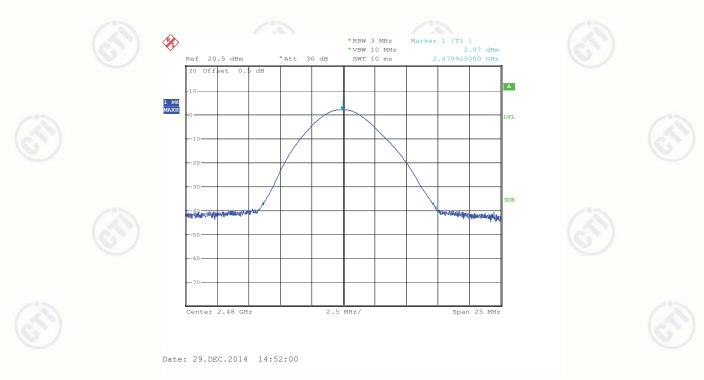








Page 22 of 38







2480MHz



























































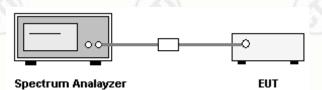
Report No. : EESZG12310051 Page 23 of 38

## 12. CONDUCTED BANDEDGE EMISSION MEASUREMENT

# **12.1. LIMITS**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

## 12.2. BLOCK DIAGRAM OF TEST SETUP



#### 12.3. TEST PROCEDURE

- 1. Set to the maximum power setting and enable the EUT transmit continuously.
- 2. Set RBW = 100 kHz, VBW = 300 kHz (≥ RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- 3. Enable hopping function of the EUT and then repeat step 1 and 2.
- 4. Measure and record the results in the test report.

#### 12.4. TEST RESULT

Pass.







































\*RBW 100 kHz \*VBW 300 kHz SWT 10 ms





Report No.: EESZG12310051

The test data of worst case are below:

Ref 20.5 dBm

## **GFSK:**

Hopping off mode:















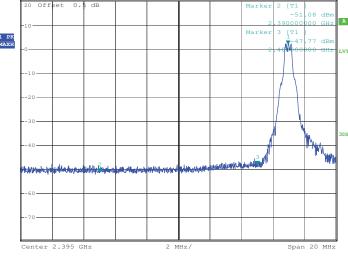












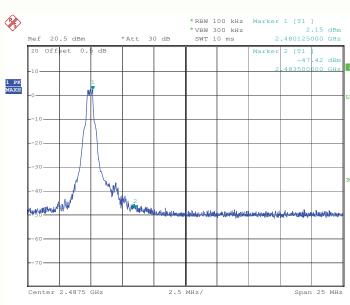
30 dB

# Low channel

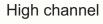








Date: 30.DEC.2014 10:45:38

















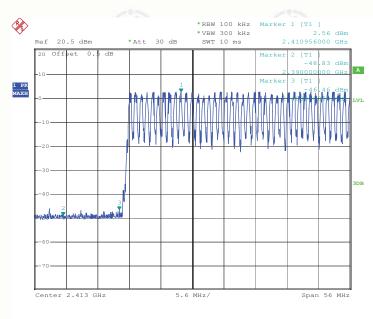






Page 25 of 38

# Hopping mode:

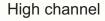


Date: 30.DEC.2014 09:12:56

## Low channel



Date: 30.DEC.2014 10:13:17





















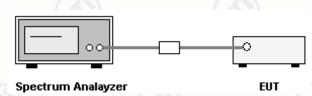


# 13. CONDUCTED SPURIOUS EMISSION MEASUREMENT

#### 13.1. **LIMITS**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

#### 13.2. BLOCK DIAGRAM OF TEST SETUP



#### 13.3. TEST PROCEDURE

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Set RBW = 100 kHz, VBW = 300 kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- 4. Measure and record the results in the test report.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

#### 13.4. TEST RESULT

Pass.





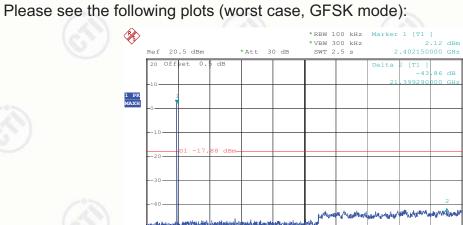






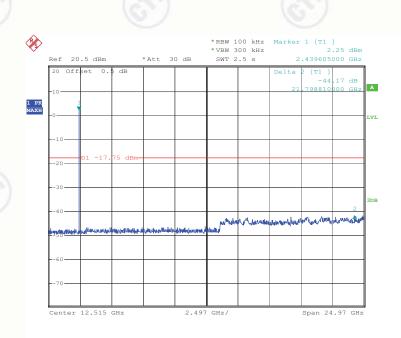


Page 27 of 38



Date: 29.DEC.2014 15:19:42

# 2402MHz



Date: 29.DEC.2014 15:35:59

2441MHz













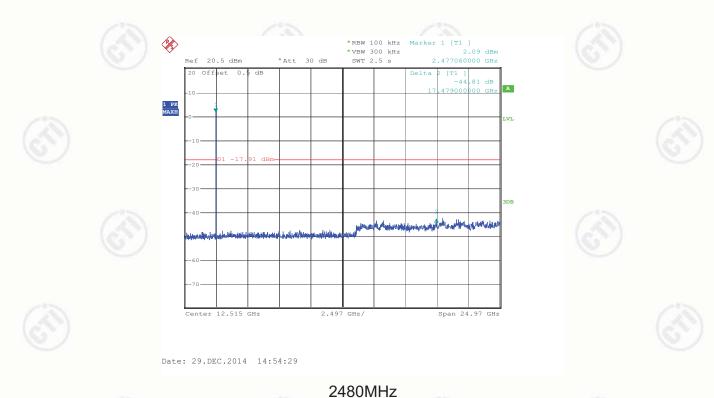








Page 28 of 38

























































Report No.: EESZG12310051 Page 29 of 38

# 14. RADIATED BANDEDGE EMISSION / RADIATED SPURIOUS EMISSION MEASUREMENT

#### 14.1. LIMITS

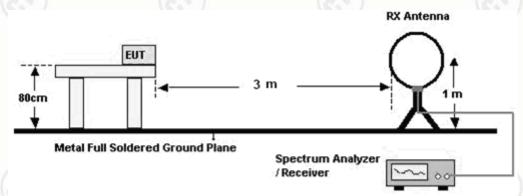
The field strength of any emissions, which appear outside of operating frequency band and restricted band specified on FCC 15.205(a), shall not exceed the general radiated emission limits as below.

Frequency (MHz)	Field strength (μV/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

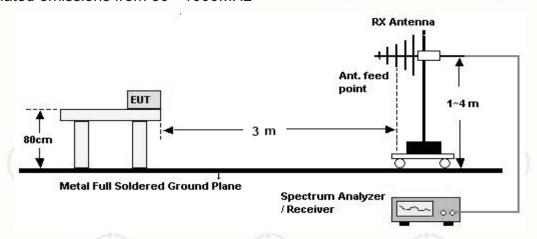
Note: the tighter limit applies at the band edges.

#### 14.2. BLOCK DIAGRAM OF TEST SETUP

For radiated emissions from 9kHz to 30MHz



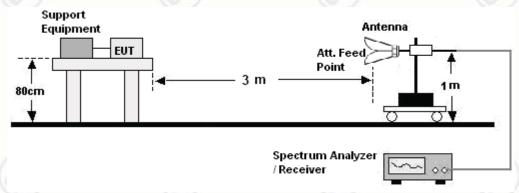
For radiated emissions from 30 - 1000MHz







For radiated emissions from 1GHz to 25GHz



#### 14.3. TEST PROCEDURE

#### Below 30MHz

- a. The Product is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The maximum values of the field strength are recorded by adjusting the polarizations of the test antenna and rotating the turntable.
- b. For each suspected emission, the Product was arranged to its worst case and then turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- c. The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

#### 30MHz ~ 1GHz:

- a. The Product was placed on the non-conductive turntable 0.8m above the ground at a chamber.
- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 100 kHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied between 1~4 m in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.
- c. For each frequency whose maximum record was higher or close to limit, measure its QP value (120 kHz RBW): vary the antenna's height and rotate the turntable from 0 to 360 degrees to find the height and degree where Product radiated the maximum emission, then set the test frequency analyzer/receiver to QP Detector and specified bandwidth with Maximum Hold Mode, and record the maximum value.

#### **Above 1GHz:**

- a. The EUT was placed on the non-conductive turntable 0.8 m above the ground at a chamber.
- b. Set the spectrum analyzer/receiver in Peak detector, Max Hold mode, and 1MHz RBW. Record the maximum field strength of all the pre-scan process in the full band when the antenna is varied in both horizontal and vertical, and the turntable is rotated from 0 to 360 degrees.









Report No. : EESZG12310051 Page 31 of 38

#### 14.4. TEST RESULT

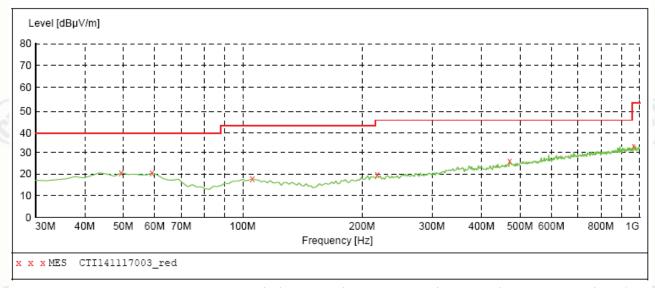
#### A. Below 30MHz:

No emissions were found higher than the background below 30MHz and background is lower than the limit, so it deems to compliance with the limit without recorded.

#### B. $30MHz \sim 1GHz$ :

The test data of low channel, middle channel and high channel are almost same in frequency bands 30MHz to 1GHz, and the data of middle channel (GFSK mode) are chosen as representative in below:

#### H:



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB		Height cm	Azimuth deg	Polarization
49.400000 59.100000 105.660000 218.180000 470.380000 967.020000	20.60 20.50 17.80 19.60 26.00 33.00	14.9 13.9 12.3 13.8 19.5 26.6	40.0 40.0 43.5 46.0 46.0 54.0	19.4 19.5 25.7 26.4 20.0 21.0	QP QP QP QP	100.0 200.0 200.0 100.0 100.0	248.00	HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL HORIZONTAL
					2.			































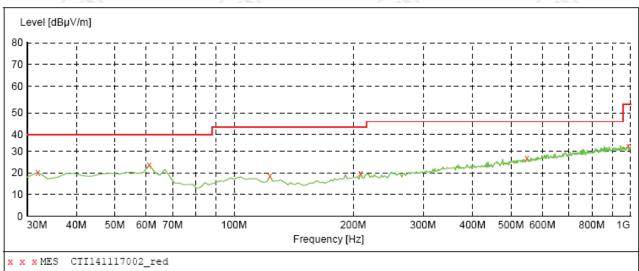






Page 32 of 38

## V:



Frequency MHz	Level dBµV/m		Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.940000 61.040000	20.30 23.80	11.9 13.4	40.0 40.0	19.7 16.2	QP	100.0 100.0	308.00 211.00	VERTICAL VERTICAL
123.120000 208.480000	18.60 19.60	11.2 13.6	43.5 43.5	24.9 23.9	QP	100.0 100.0	370.00 95.00	VERTICAL VERTICAL
547.980000 986.420000	26.90 32.50	21.0 26.8	46.0 54.0	19.1 21.5	~	200.0 200.0	291.00 227.00	VERTICAL VERTICAL























































Report No.: EESZG12310051 Page 33 of 38

#### C. Above 1GHz:

Test Results-(Measurement Distance: 3m)\_Channel low\_2402MHz GFSK mode:

Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
2390.0	35.21	74	PK	Н	P
2400.0	42.36	74	PK	( H	Р (
2402.0*	92.65		PK	Н	Р
4804.0	36.25	74	PK	Н	Р
2390.0	34.26	74	PK	V	Р
2400.0	40.29	74	PK	V	Р
2402.0*	93.12	<u> </u>	PK	V	Р
4804.0	36.87	74	PK	V	Р

<sup>\*:</sup> fundamental frequency

Test Results-(Measurement Distance: 3m)\_Channel middle\_2441MHz\_GFSK mode:

100111000110	Intododi official Diotal				
Frequency Measurement (MHz) (dBuV/m)		Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
2441.0*	92.36	<i>M</i>	PK	Н	Р
4882.0	35.62	74	PK	Н	Р
2441.0*	93.01		PK	V	Р
4882.0	36.01	74	PK	V	Р

<sup>\*:</sup> fundamental frequency

Test Results-(Measurement Distance: 3m)\_Channel high\_2480MHz\_GFSK mode:

Frequency (MHz)	Measurement (dBuV/m)	Limit (dBuV/m)	Detector Type	Antenna (H/V)	Result (P/F)
2480.0*	91.69	(*)	PK	Н	Р
2483.5	42.63	74	PK	Н	Р
4960.0	35.12	74	PK	Н	Р
2480.0*	92.12	(%	PK	V	Р
2483.5	40.95	74	PK	⊗V)	P
4960.0	36.01	74	PK	V	Р

<sup>\*:</sup> fundamental frequency

#### Remark:

- 1. The above tables show that the frequencies peak data are all below the average limit, so the average data of these frequencies are deems to fulfill the average limits and not reported.
- 2. No emission found from 18GHz to 25GHz.
- 3. All outside of operating frequency band and restricted band specified are below 15.209.



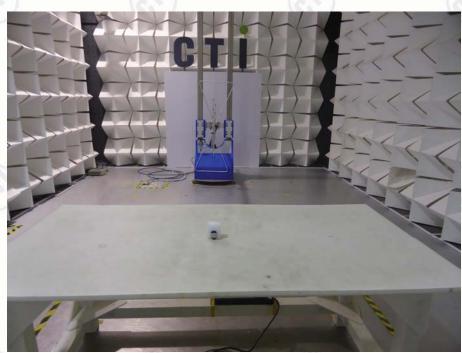




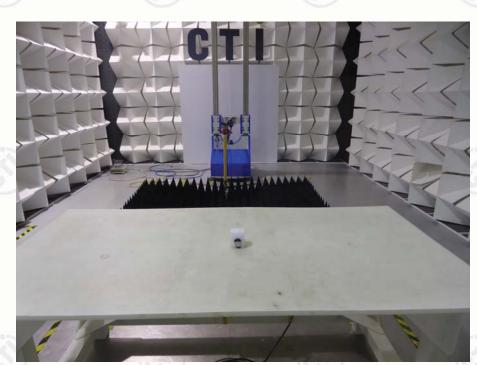




# **APPENDIX 1 PHOTOGRAPHS OF TEST SETUP**



**TEST SETUP OF RADIATED EMISSION (30MHz-1GHz)** 



TEST SETUP OF RADIATED EMISSION (above 1GHz)



















# Page 35 of 38

# **APPENDIX 2 EXTERNAL PHOTOGRAPHS OF PRODUCT**



Fig.1- General View



Fig.2- General View



















Report No.: EESZG12310051 Page 36 of 38

# **APPENDIX 3 INTERNAL PHOTOGRAPHS OF PRODUCT**



Fig.1- View of EUT



Fig.2- View of EUT























Fig.3- View of EUT



Fig.4- View of EUT



























Report No. : EESZG12310051 Page 38 of 38

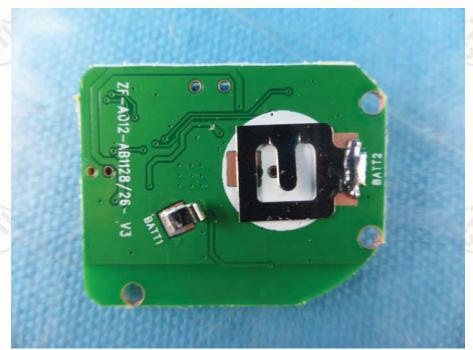


Fig.5- View of EUT

# \*\*\* End of Report \*\*\*

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.













































