

FCC TEST REPORT for iGenio Ltd.

Mooni Bluetooth Remote Shutter Model No.: Mooni

Prepared for : iGenio Ltd.

Address : (Company Number 9313197) Charter House, Stansfield St,

NELSON, Lancs, BB9 9XY, United Kingdom

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : R011606146I

Date of Test : Oct. 08~ Nov. 02, 2016

Date of Report : Nov. 03, 2016



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TEST REPORT

Applicant : iGenio Ltd.

Manufacturer : SHENZHEN KINGAMEI TECHNOLOGY CO., LTD

EUT : Mooni Bluetooth Remote Shutter

Model No. : Mooni Serial No. : N.A.

Trade Mark : Selfie World®

Rating : DC 3V

Measurement Procedure Used:

FCC Part15 Subpart C 2016, Paragraph 15.207, 15.247 & 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test:	Oct. 08~ Nov. 02, 2016
Prepared by :	Janon Wan.
	(Tested Engineer / Baron Wen)
Reviewer:	Amy Ding
	(Project Manager / Amy Ding)
Approved & Authorized Signer :	Ton Aren
	(Manager / Tom Chen)



1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Mooni Bluetooth Remote Shutter

Model Number : Mooni

Test Power Supply: DC 3V Battery inside

Frequency: 2402~2480MHz

Antenna : PCB Antenna: 0dBi

Specification

Modulation : GFSK, $\pi/4$ DQPSK, 8DPSK

Applicant : iGenio Ltd.

Address : (Company Number 9313197) Charter House, Stansfield St,

NELSON, Lancs, BB9 9XY, United Kingdom

Manufacturer : SHENZHEN KINGAMEI TECHNOLOGY CO., LTD

Address : 3rd floor, Building No.2, shunchegnji Industrial Park, Langkou

Community, Dalang Sub-district, Longhua New District, Shenzhen

City, Guangdong province, China.

Factory : SHENZHEN KINGAMEI TECHNOLOGY CO., LTD

Address : 3rd floor, Building No.2, shunchegnji Industrial Park, Langkou

Community, Dalang Sub-district, Longhua New District, Shenzhen

City, Guangdong province, China.

Date of receipt : Oct. 08, 2016

Date of Test : Oct. 08~ Nov. 02, 2016



1.2 Auxiliary Equipment Used during Test

N/A

1.3 Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 06, 2016.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, Jun. 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4 Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)

Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB



2. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Shenzhen Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.10-2013 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

ANSI STANDARD C63.10-2013 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.



3. Radiation Interference

3.1 Requirements (15.247, 15.209):

3.1.1. Test Limits (< 30 MHZ)

Frequency	Field Strength	Measurement Distance	
(MHz)	(microvolts/meter)	(meter)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30.0	30	30	

3.1.2. Test Limits (\geq 30 MHZ)

FIELD STRENGTH	FIELD STRENGTH	S15.209	
of Fundamental:	of Harmonics	30 - 88 MHz	40 dBuV/m
@3M			
902-928 MHZ		88 - 216 MHz	43.5
2.4-2.4835 GHz		216 - 960 MHz	46
94 dBμV/m @3m	54 dBμV/m @3m	ABOVE 960 MHz	54dBuV/m

For range 9KHz~30MHz, The measured value is really too low to be recorded.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

3.2 Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane. For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 30MHz to 1000MHz:

Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak Trace mode= Max hold. Sweep- auto couple.

For Above 1GHz:

Set the spectrum analyzer as: RBW = 1MHz, VBW =3MHz, Detector= Peak Trace mode= Max hold. Sweep- auto couple.



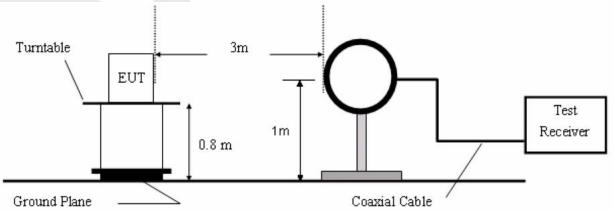
Set the spectrum analyzer as: RBW =1MHz, VBW =10Hz Detector= Average Trace mode= Max hold. Sweep- auto couple.

Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
1.	Spectrum Analysis		E4407B	US39390582	Apr. 16, 2016	1 Year	
2.	Preamplifier	Instruments	EMC01183	980100	Apr. 16, 2016	1 Year	
2.	Treampine	corporation	0	980100	Apr. 10, 2010	1 1 Cai	
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 16, 2016	1 Year	
4.	Double Ridged	Instruments	GTH-0118	351600	Apr. 19, 2016	1 Year	
T .	Horn Antenna	corporation	G111-0116	331000	Apr. 17, 2010	1 Tear	
5.	Bilog Broadband	C -111-	VIII D01/2	VULB	A 10 2016	1 37	
3.	Antenna	Schwarzbeck	VULB9163	9163-289	Apr. 19, 2016	1 Year	
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 16, 2016	1 Year	
	EMI Test						
7.	Software	SHURPLE	N/A	N/A	N/A	N/A	
	EZ-EMC						
8	D C	DAED	RPR3006	15I00041SN0	I 20, 2016	1 37	
8	Power Sensor	DAER	W	46	Jun 30, 2016	1 Year	
9	MXA Spectrum	A 1 4	N10020 A	MX/51170027	1 20 2016	1 37	
9	Analysis	Agilent	N9020A	MY51170037	Jun 30, 2016	1 Year	
10	MXG RF Vector	A '1	NI5102 A	NOVA0100656	1 20 2016	1 37	
10	Signal Generator	Agilent	N5182A	MY48180656	Jun 30, 2016	1 Year	
11	Signal Generator	Agilent	E4421B	MY41000743	Jun 30, 2016	1 Year	
12	DC Power supply	ĪV	IV-8080	YQSB0096	Jun 30, 2016	1 Year	
	TEMP&HUMI		DE TIUZ 1				
13	PROGRAMMAB	Bell Group	BE-THK-1	SE-0137	Mar. 16, 2016	1 Year	
	LE CHAMBER		50M8				
	LL CITTURE						

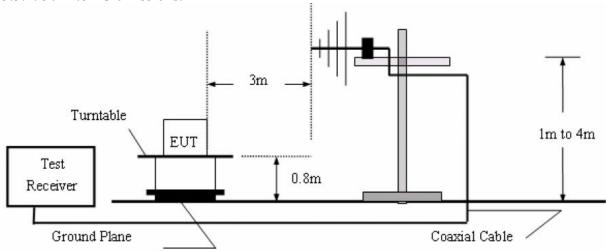
3.3 Test Configuration

3.3.1. 9k to 30MHz emissions:

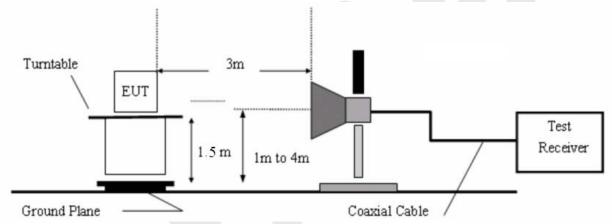




3.3.2. 30M to 1G emissions:



3.3.3. 1G to 40G emissions:



3.4 Test Results

PASS.

Please refer the following pages. Only the worst case (x orientation).

The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.

The test results of above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

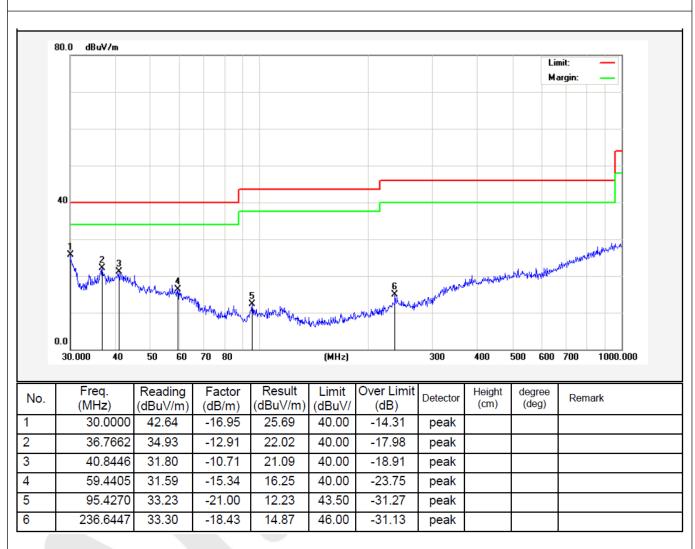


Job No.: 011606146I Polarization: Horizontal

Standard: (RE)FCC PART 15C _3m Power Source: DC 3V

Test item: Radiation Test (30~1000MHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: BT Mode Distance: 3m



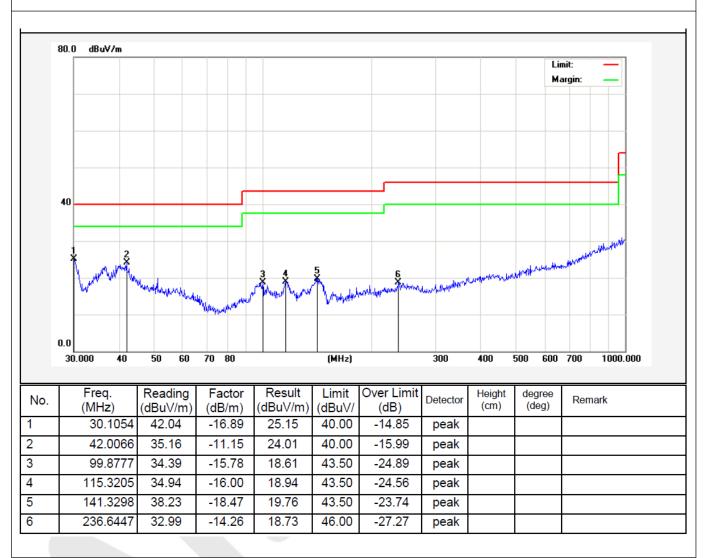


Job No.: 011606146I Polarization: Vertical

Standard: (RE)FCC PART 15C _3m Power Source: DC 3V

Test item: Radiation Test (30~1000MHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: BT Mode Distance: 3m



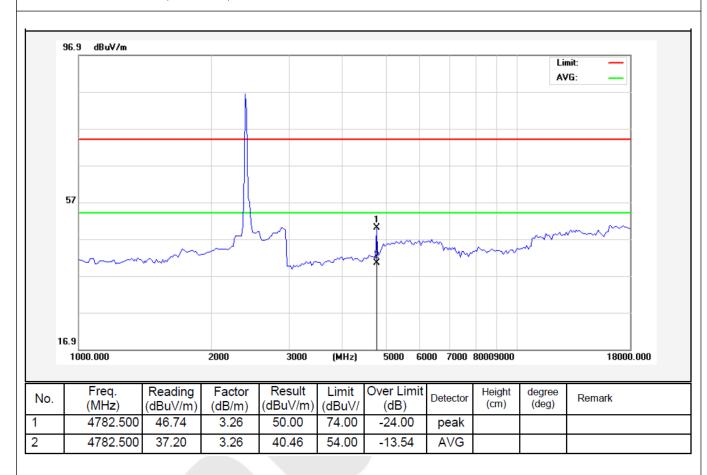


Job No.: 011606146I Polarization: Horizontal

Standard: (RE)FCC PART 15C_Class B_3m Power Source: DC 3V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: TX(2402 MHz) Distance: 3m



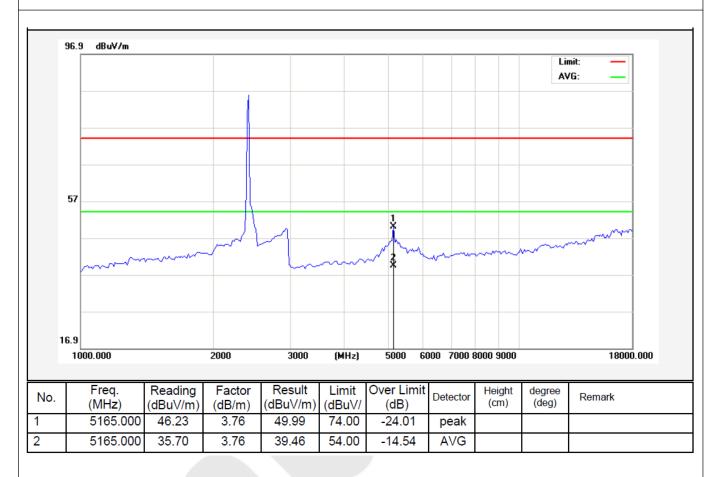


Job No.: 011606146I Polarization: Vertical

Standard: (RE)FCC PART 15C_Class B_3m Power Source: DC 3V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: TX(2402 MHz) Distance: 3m



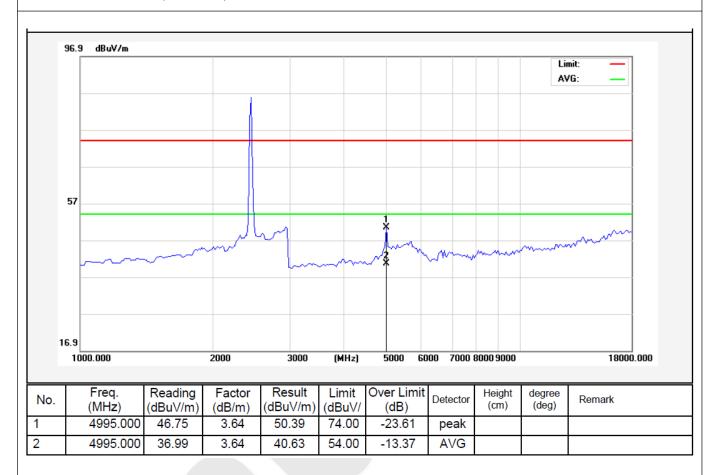


Job No.: 011606146I Polarization: Horizontal

Standard: (RE)FCC PART 15C_Class B_3m Power Source: DC 3V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: TX(2441 MHz) Distance: 3m



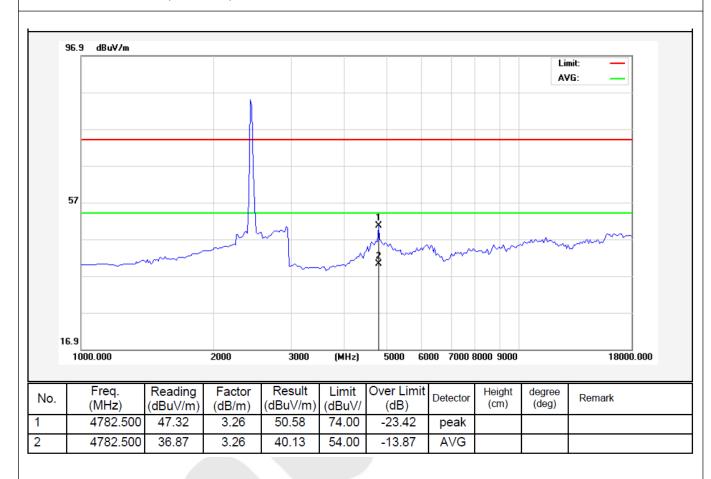


Job No.: 011606146I Polarization: Vertical

Standard: (RE)FCC PART 15C_Class B_3m Power Source: DC 3V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: TX(2441 MHz) Distance: 3m



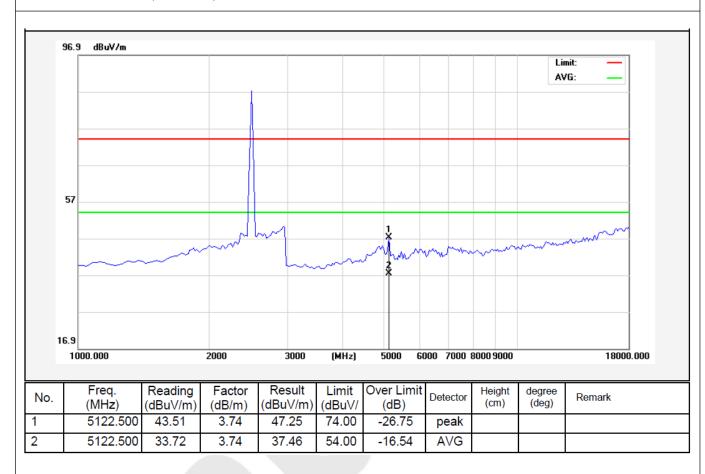


Job No.: 011606146I Polarization: Horizontal

Standard: (RE)FCC PART 15C_Class B_3m Power Source: DC 3V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: TX(2480 MHz) Distance: 3m



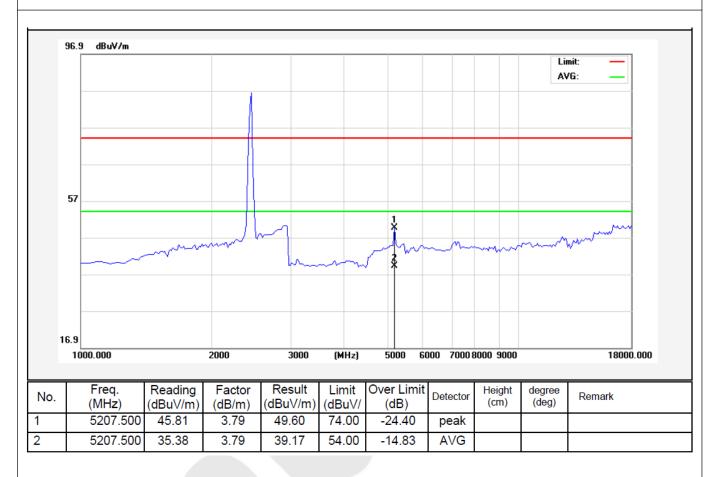


Job No.: 011606146I Polarization: Vertical

Standard: (RE)FCC PART 15C_Class B_3m Power Source: DC 3V

Test item: Radiation Test (Above 1GHz) Temp.(C)/Hum.(%RH): 24.3(C)/55%RH

Test Mode: TX(2480 MHz) Distance: 3m





4. CHANNEL SEPARATION TEST

4.1 Measurement Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

- 1. Span= Wide enough to capture the peaks of two adjacent channels
- 2. Set the RBW = 100 kHz.
- 3. Set the VBW = 1.0 MHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = \max hold.
- 7. Allow trace to fully stabilize.

4.2 Test SET-UP

EUT Spectrum analyzer

4.3 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analysis	Agilent	E4407B	US39390582	Apr. 16, 2016	1 Year
2.	Preamplifier	Instruments corporation	EMC01183 0	980100	Apr. 16, 2016	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESPI	101604	Apr. 16, 2016	1 Year
4.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Apr. 19, 2016	1 Year
5.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 19, 2016	1 Year
6.	Pre-amplifier	SONOMA	310N	186860	Apr. 16, 2016	1 Year
7.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
8	Power Sensor	DAER	RPR3006 W	15I00041SN0 46	Jun 30, 2016	1 Year
9	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Jun 30, 2016	1 Year
10	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Jun 30, 2016	1 Year
11	Signal Generator	Agilent	E4421B	MY41000743	Jun 30, 2016	1 Year
12	DC Power supply	IV	IV-8080	YQSB0096	Jun 30, 2016	1 Year
13	TEMP&HUMI PROGRAMMAB LE CHAMBER	Bell Group	BE-THK-1 50M8	SE-0137	Mar. 16, 2016	1 Year



4.4 Test Results

Test Item : Frequency Separation Test Mode : CH Low ~ CH High

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55° RH

Channel	Frequency	Separation Read	Limit	Modulation
Chamie	(MHz)	Value (kHz)	(kHz)	Mode
Low	2402	1002	929.1	BDR
Mid	2441	1002	916.4	BDR
High	2480	1002	931.3	BDR
Low	2402	1002	841.3	EDR
Mid	2441	1002	842.0	EDR
High	2480	996	838.7	EDR

Remark:

- 1. The limit of mode (EDR) is 2/3 of 20dB BW;
- 2. The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of $(\pi/4DQPSK)$ is attached in the following pages.







5. 20DB BANDWIDTH TEST

5.1 Measurement Procedure

Using the following spectrum analyzer settings:

- 1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

5.2 Test SET-UP

EUT Spectrum analyzer

5.3 Test Equipment

Same as the equipment listed in 4.3.

5.4 Test Results

Test Item : 20dB BW Test Mode : CH Low ~ CH High

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55%RH

Channel	Frequency (MHz)	20dB Down BW(kHz)	Modulation Mode
Low	2402	929.1	BDR
Mid	2441	916.4	BDR
High	2480	931.3	BDR
Low	2402	1262.0	EDR
Mid	2441	1263.0	EDR
High	2480	1258.0	EDR

Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.







6. QUANTITY OF HOPPING CHANNEL TEST

6.1 Measurement Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

- 1. Span= the frequency band of operation
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

6.2 Test SET-UP

EUT Spectrum analyzer

6.3 Test Equipment

Same as the equipment listed in 4.3.

6.4 Test Results

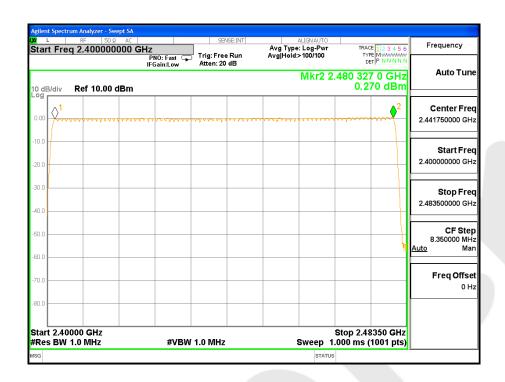
Test Item : Number of Hopping Test Mode : CH Low ~ CH High

Frequency

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55° RH

Hopping Channel		Quantity of Hopping
Frequency Range	Channel	Channel
2402-2480	79	>15







7. DWELL TIME TEST

7.1 Measurement Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- 1. Span= zero span, centered on a hopping channel
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

7.2 Test SET-UP

EUT Spectrum analyzer

7.3 Test Equipment

Same as the equipment listed in 4.3.

7.4 Test Results

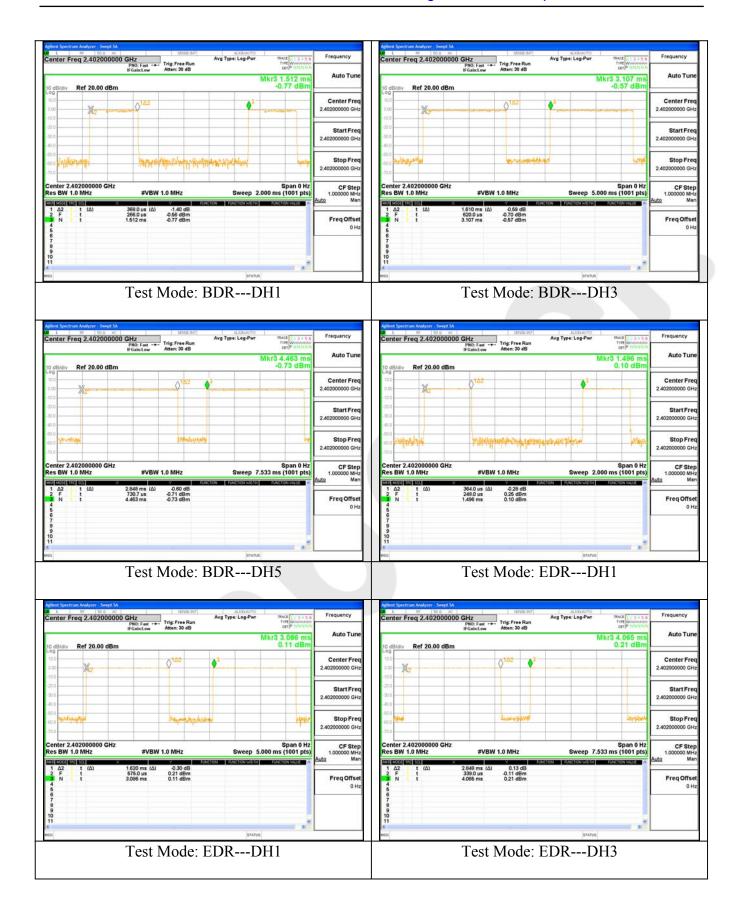
Test Item : Time of Occupancy Test Mode : CH Low ~ CH High

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55%RH

Package Type	Pulse width (ms)	Time slot length(ms)	Dwell time (ms)	Limit (s)	Modulation
DH1	0.368	time slot length *1600/2 /79 * 31.6	117.76	0.4	BDR
DH3	1.610	time slot length *1600/4 /79 * 31.6	257.60	0.4	BDR
DH5	2.848	time slot length *1600/6 /79 * 31.6	303.79	0.4	BDR
DH1	0.364	time slot length *1600/2 /79 * 31.6	116.48	0.4	EDR
DH3	1.620	time slot length *1600/4 /79 * 31.6	259.20	0.4	EDR
DH5	2.848	time slot length *1600/6 /79 * 31.6	303.79	0.4	EDR

Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.







8. MAX IMUM PEAK OUTPUT POWER TEST

8.1 Measurement Procedure

- a. Check the calibration of the measuring instrument(SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using proper RBW and VBW setting.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

Using the following spectrum analyzer settings:

- 1. Span= approximately 5 times the 20dB bandwidth, centered on a hopping channel
- 2. Set the RBW = 3 MHz.
- 3. Set the VBW = 3 MHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

8.2 Test SET-UP



8.3 Test Equipment

Same as the equipment listed in 4.3.



9.4 Test Results

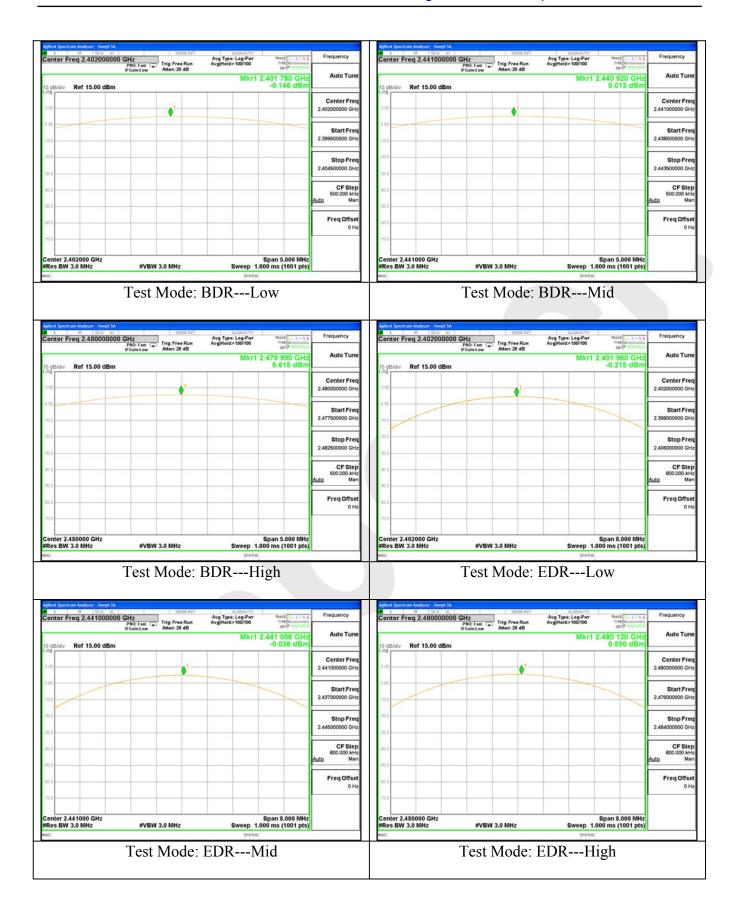
Test Item : Max. peak output power Test Mode : CH Low ~ CH High

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55° RH

Channel Frequency (MHz)	Peak Power output(mW)	Peak Power output(dBm)	Peak Power Limit(mW)	Results	Modulation
2402	0.967	-0.146	1000	PASS	BDR
2441	1.003	0.013	1000	PASS	BDR
2480	1.152	0.615	1000	PASS	BDR
2402	0.952	-0.215	125	PASS	EDR
2441	0.992	-0.036	125	PASS	EDR
2480	1.135	0.550	125	PASS	EDR

Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.







9. BAND EDGE TEST

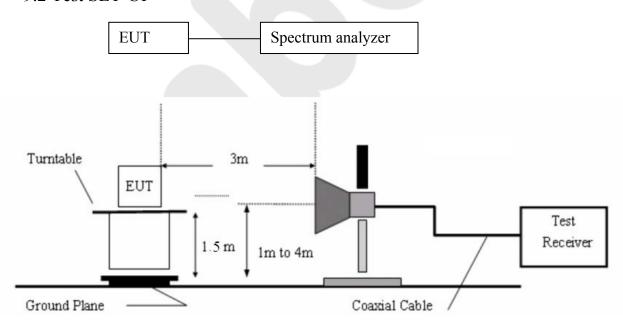
9.1 Measurement Procedure

- A) Conducted Emission method:
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set both RBW and VBW of spectrum analyzer to 100kHz with a convenient frequency span including 100kHz bandwidth from band edge,
- 4. Measurement the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Report above procedures until all measured frequencies were complete.

B) Radiated Emission method:

The EUT is placed on a turn table which is 1.5 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. for Radiated emissions restricted band RBW= 1 MHz, VBW= 3 MHz.

9.2 Test SET-UP





9.3 Test Equipment

Same as the equipment listed in 4.3.

9.4 Test Results

Pass.

Please refer the following data.

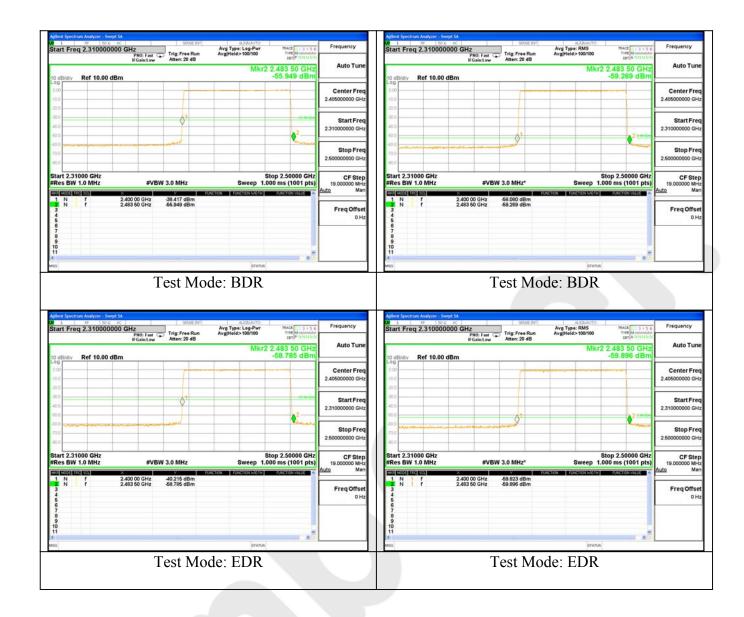
Test Item : Band eadge : CH Low ~ CH High

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55° RH

For Hopping Mode:

Remark: The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of $(\pi/4DQPSK)$ is attached in the following pages.







Test Item : Band eadge : CH Low ~ CH High

Test Voltage : DC 3V Temperature : 24° C Test Result : PASS Humidity : 55%RH

For Non-Hopping Mode:

1. Conducted Test

Frequency	Peak Power	Emission read	Result of Band	Band edge	Modulation
(MHz)	Output(dBm)	Value(dBm)	edge(dBc)	Limit(dBc)	
<2400	-0.186	-39.606	39.420	>20dBc	BDR
	-0.672	-30.659	29.987	>20dBc	EDR
>2483.5	0.626	-53.157	53.783	>20dBc	BDR
	0.113	-51.392	51.505	>20dBc	EDR

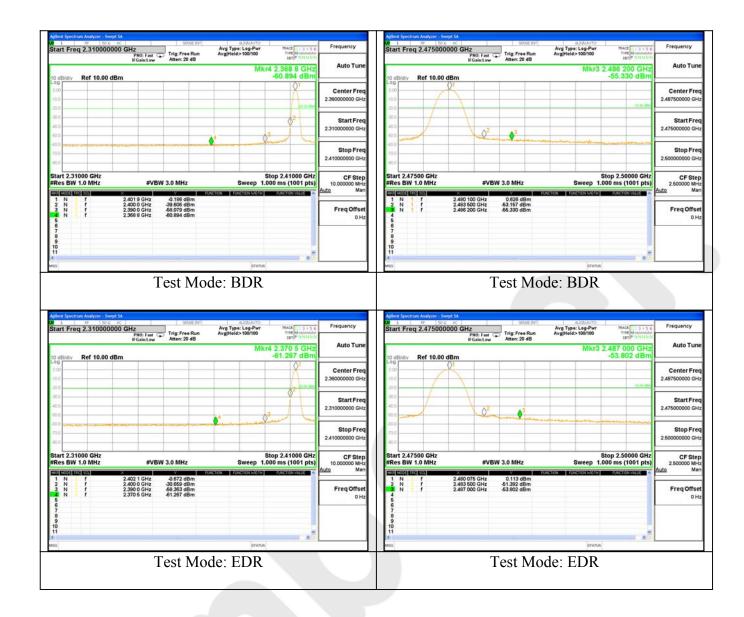
2. Radiated emission Test

Frequency	Antenna	Emission		Band edge Limit			
(MHz)	polarization	(dBuV/m)		(dBuV/m)		Modulation	
	(H/V)	PK	AV	PK	AV		
<2400	V	49.87	38.41	74.00	54.00	BDR	
	V	50.56	36.92	74.00	54.00	EDR	
>2483.5	V	48.69	37.70	74.00	54.00	BDR	
	V	47.12	35.63	74.00	54.00	EDR	

Frequency	Antenna	Emission		Band edge Limit		
(MHz)	polarization	(dBuV/m)		(dBuV/m)		Modulation
	(H/V)	PK	AV	PK	AV	
<2400	Н	48.45	35.87	74.00	54.00	BDR
	Н	49.63	37.75	74.00	54.00	EDR
>2483.5	Н	45.96	36.60	74.00	54.00	BDR
	Н	48.30	37.44	74.00	54.00	EDR

Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (π /4DQPSK) is attached in the following pages.







10. ANTENNA APPLICATION

10.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247.

FCC part 15C section 15.247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

10.2 Result

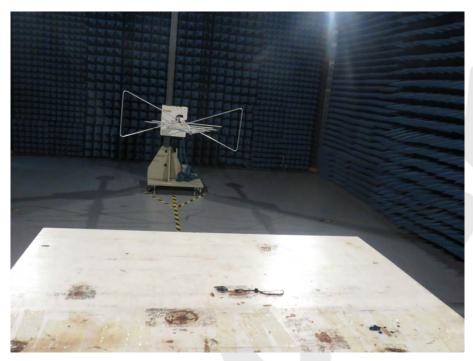
The EUT's antenna used a PCB Antenna, The antenna's gain is 0dBi and meets the requirement.





11. PHOTOGRAPH

11.1 Photo of Radiation Emission Test



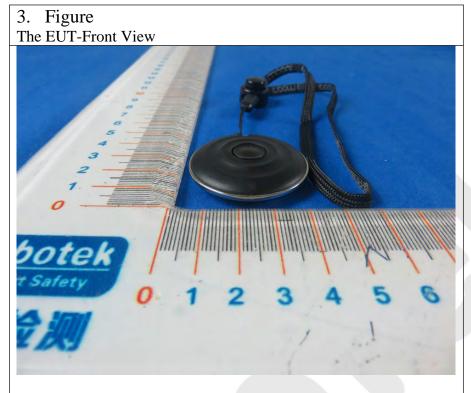




APPENDIX I (EXTERNAL PHOTOS)







4. Figure The EUT- Back View









6. Figure
The EUT- Left View





APPENDIX II (INTERNAL PHOTOS)





