

TECHNICAL CONSULTING



ISO/IEC17025Accredited Lab.

Report No:
File reference No:

FCC 1404150
2014-04-23

Applicant: Ningbo Golden Katie Digital Technology Development Co., Ltd.

Product: 2.4G WIRELESS FLASH TRIGGERS

Model No: KR201N, KR201C, KR106N, KR106C, STR192, STR193, STR194, STR195

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4 and FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung
Manager

Dated: April 23, 2014

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered 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 No.: 899988.

IC- Registration No.: IC5205A-02

The 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 IC No.: 5205A-02.

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

Telephone: (755) 83448688

Fax: (755) 83442996

Site on File with the Federal Communications Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-02

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Ningbo Golden Katie Digital Technology Development Co., Ltd.
Address: No. 175-177, Anshan Road, Yuyao City, Zhejiang Province, China
Telephone: --
Fax: --

1.3 Description of EUT

Product: 2.4G WIRELESS FLASH TRIGGERS
Manufacturer: Ningbo Golden Katie Digital Technology Development Co., Ltd.
Address: No. 175-177, Anshan Road, Yuyao City, Zhejiang Province, China
Trade Mark: N/A
Model Number: KR201N
Additional Model Name: KR201C, KR106N, KR106C, STR192, STR193, STR194, STR195

Type of Modulation GFSK

Frequency range 2419MHz ~ 2450MHz

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2419	8	2427
1	2420	9	2428
2	2421	10	2429
3	2422	11	2430
4	2423	12	2431
5	2424	13	2448

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6	2425	14	2449
7	2426	15	2450

EUT was tested with Channel 0, 12 and 15.

Input Voltage: DC3V

Channel Number 16 Channels

Antenna: Integrated antenna with maximum gain 0dBi

Model Difference: All models are identical in circuitry and electrical, mechanical, physical construction and Plastic shell, only different on the color of appearance and model name. All tests are carried out on KR201N.

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

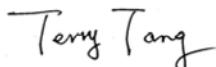
2014-03-24 to 2014-04-02

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

A handwritten signature in black ink that reads 'Terry Tang'.

The sample tested by _____

Print Name: Terry Tang

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2.0

Test Equipments

Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2013-08-23	2014-08-22
Ultra Broadband	R&S	HL562	100157	2013-08-25	2014-08-24
ESDV Test Receiver	R&S	ESDV	100008	2013-08-23	2014-08-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2013-08-24	2014-08-23
System Controller	CT	SC100	-	--	--
Loop Antenna	EMCO	6502	00042960	2013-08-23	2014-08-22
Test Receiver	ROHDE&SCHW ARZ	ESI26	838786/013	2013-08-23	2014-08-22
Horn Antenna	SCHWARZBEC K	BBHA9170	BBHA91702 65	2013-08-24	2014-08-23
Horn Antenna	SCHWARZBEC K	BBHA9120D	9120D-631	2013-08-24	2014-08-23
Power meter	Anritsu	ML2487A	6K00003613	2013-08-24	2014-08-23
Bilog Antenna	Schwarbeck	VULB9163	9163/340	2013-08-21	2014-08-20
9*6*6 Anechoic	--	--	N/A	2013-08-22	2014-08-21
Pre-Amplifier	Compliance	PAM0118	1360976	2013-08-22	2014-08-21
Spectrum analyzer	R&S	FSU	100114	2013-08-22	2014-08-21

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

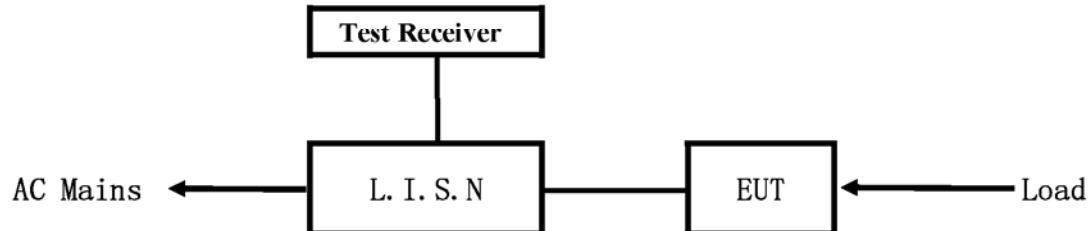
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

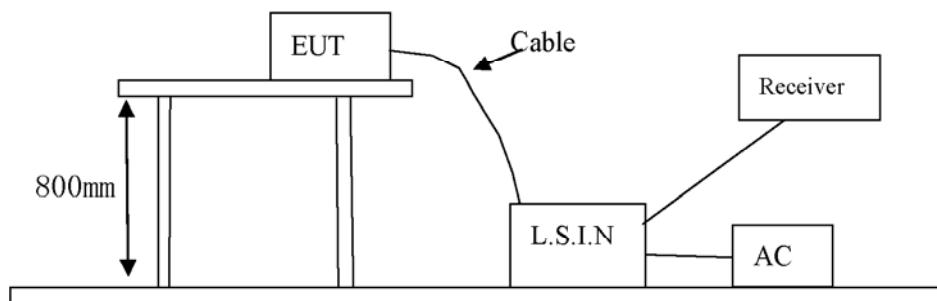


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 -2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
2.4G WIRELESS FLASH TRIGGERS	Ningbo Golden Katie Digital Technology Development Co., Ltd.	KR201N, KR201C, KR106N, KR106C, STR192, STR193, STR194, STR195	2AB7JKR201N

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

A Setup the EUT and simulators as shown on follow
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207.

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: Battery Operation, this test item not applicable.

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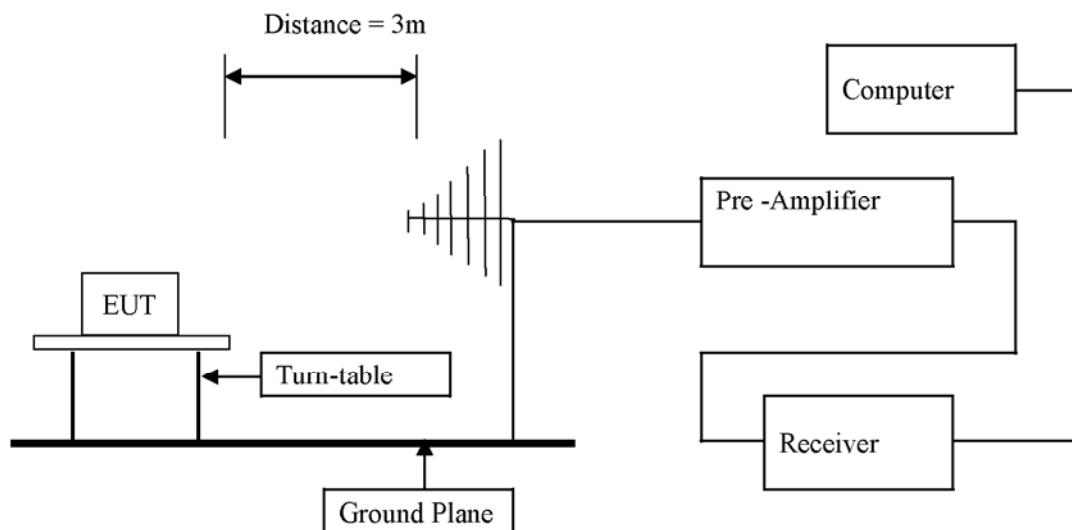
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6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 -2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) = $20 \log_{10}$ RF Voltage (uV)
2. In the Above Table, the higher limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. For radiated emissions in the frequency of 9kHz-30MHz, the measurements data were greater than 20dB below the limit.
5. For this kind of device, all 3 axes should be tested in the radiated emission test and only the worst case was recorded in the test report.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

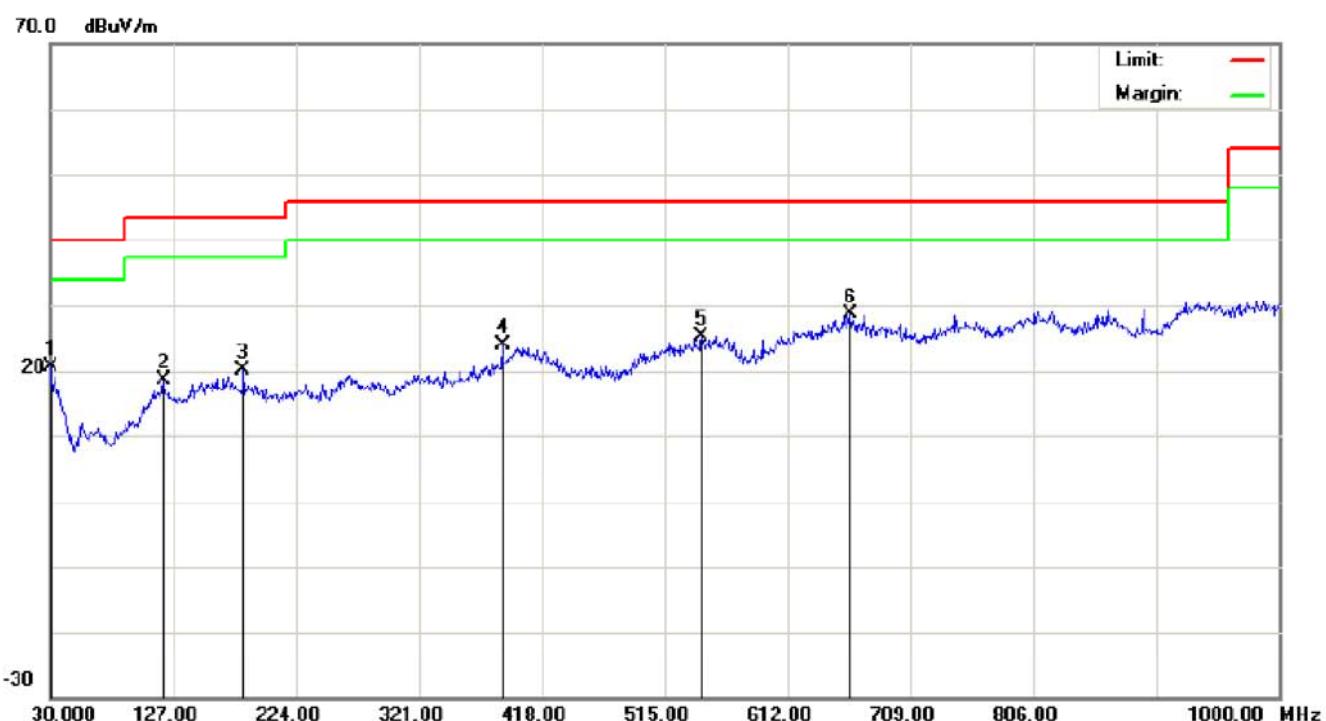
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Results: Pass

Test Figure:

Polarity: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.0000	23.52	-2.95	20.57	40.00	-19.43	QP			
2		119.2400	22.84	-4.20	18.64	43.50	-24.86	QP			
3		182.2899	24.19	-4.14	20.05	43.50	-23.45	QP			
4		386.9600	24.47	-0.64	23.83	46.00	-22.17	QP			
5		544.1000	23.12	2.11	25.23	46.00	-20.77	QP			
6	*	661.4699	22.98	5.69	28.67	46.00	-17.33	QP			

Remark: All of the Tx modes have been investigated, and TX 2419 MHz mode is the worst and presented in this report.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

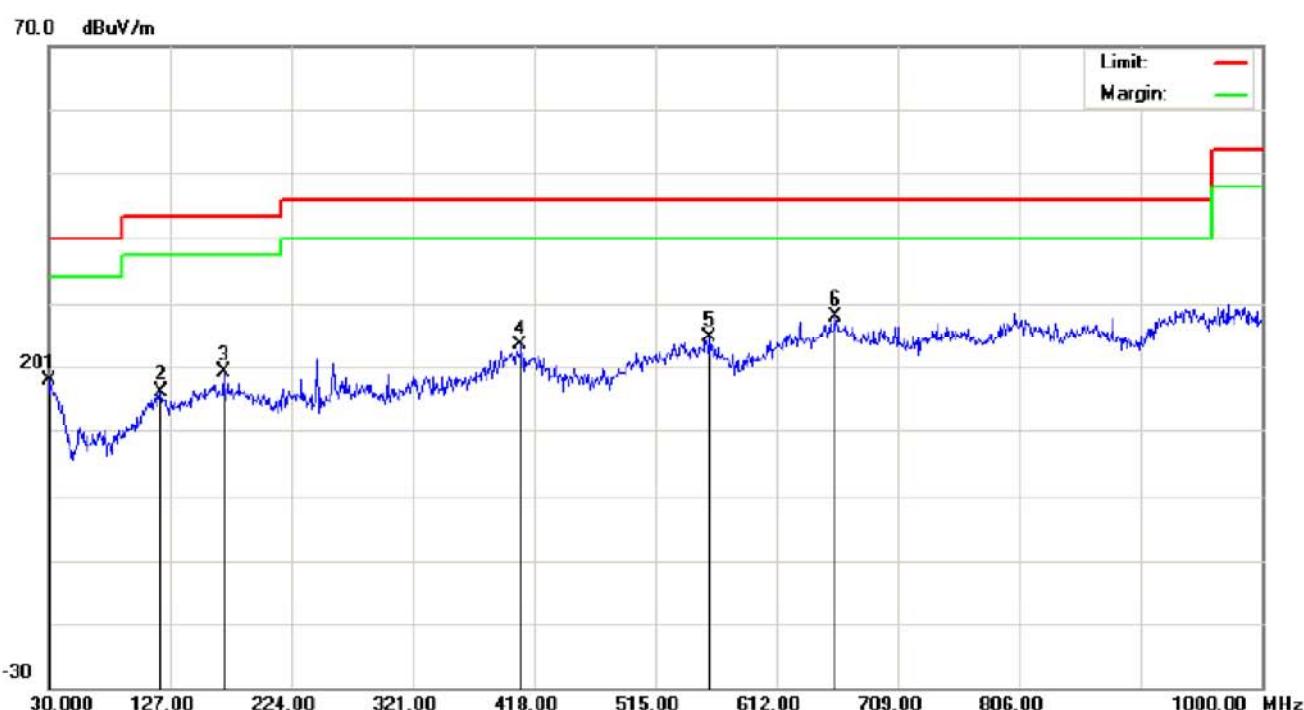
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Results: Pass

Test Figure:

Polarity: Vertical



No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
			dBuV	dB	dBuV/m					
1		30.0000	20.78	-2.95	17.83	40.00	-22.17	QP		
2		119.2399	20.24	-4.20	16.04	43.50	-27.46	QP		
3		169.6799	22.72	-3.70	19.02	43.50	-24.48	QP		
4		407.3299	22.33	0.98	23.31	46.00	-22.69	QP		
5		558.6499	22.59	1.98	24.57	46.00	-21.43	QP		
6	*	658.5599	22.25	5.70	27.95	46.00	-18.05	QP		

Remark: All of the Tx modes have been investigated, and TX 2419 MHz mode is the worst and presented in this report.

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For master part:

Above 1GHz to 25GHz:

Operation Mode: 2419MHz TX (Channel 0) Test Date : April 1, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4832	V	57.64	35.15	74	54	-16.36	-18.85
7257	V	58.50	36.11	74	54	-15.50	-17.89
9676	V	59.15	36.83	74	54	-14.85	-17.17
4832	H	59.03	37.12	74	54	-14.97	-16.88
7257	H	58.86	38.33	74	54	-15.14	-15.67

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) Data of measurement within this frequency range shown “--” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 2431MHz TX (Channel 12) Test Date : April 1, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4862	V	59.11	36.62	74	54	-14.89	-17.38
7293	V	58.01	37.58	74	54	-15.99	-16.42
9724	V	59.98	38.94	74	54	-14.02	-15.06
4862	H	59.15	37.52	74	54	-14.85	-16.48
7293	H	58.46	37.81	74	54	-15.54	-16.19

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Note: (1) All Readings are Peak Value and AV.

(2) Emission Level= Reading Level+ Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown “--” in the table above means the

reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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Operation Mode: 2450MHzTX (Channel 15) Test Date : April 1, 2014
Frequency Range: Above 1GHz Temperature : 28°C
Test Result: PASS Humidity : 65 %
Measured Distance: 3m Test By: LHZ

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4900	V	59.13	37.11	74	54	-14.87	-16.89
7350	V	59.52	38.28	74	54	-14.48	-15.72
4900	H	58.36	37.22	74	54	-15.64	-16.78
7350	H	59.71	37.03	74	54	-14.29	-16.97

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.
(2) Emission Level= Reading Level+ Probe Factor +Cable Loss.
(3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

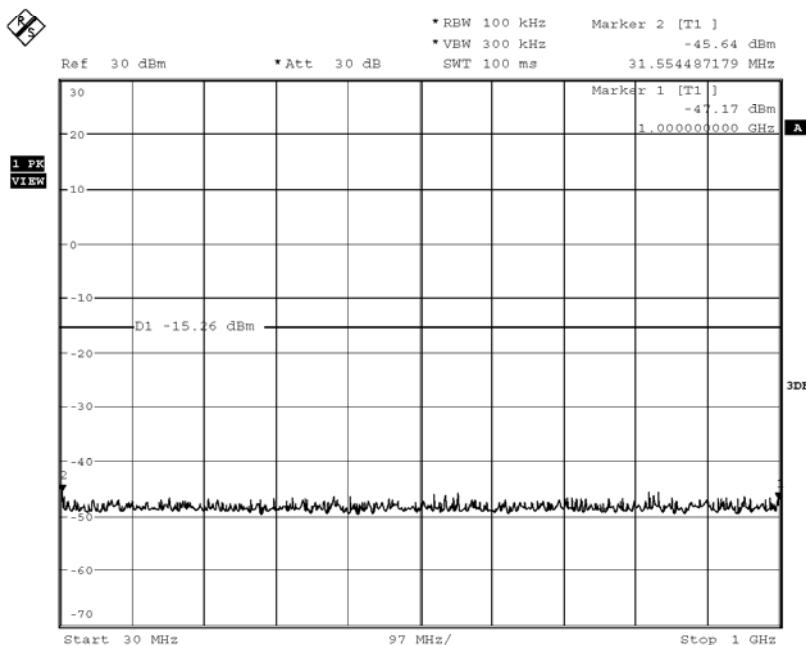
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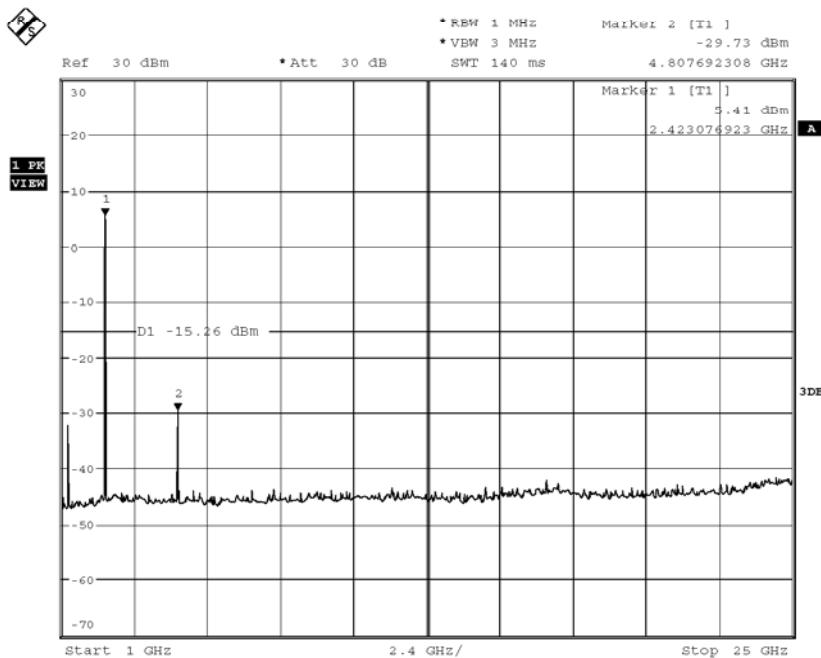
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Antenna port conducted spurious emissions

Low channel



Sweep points =20001



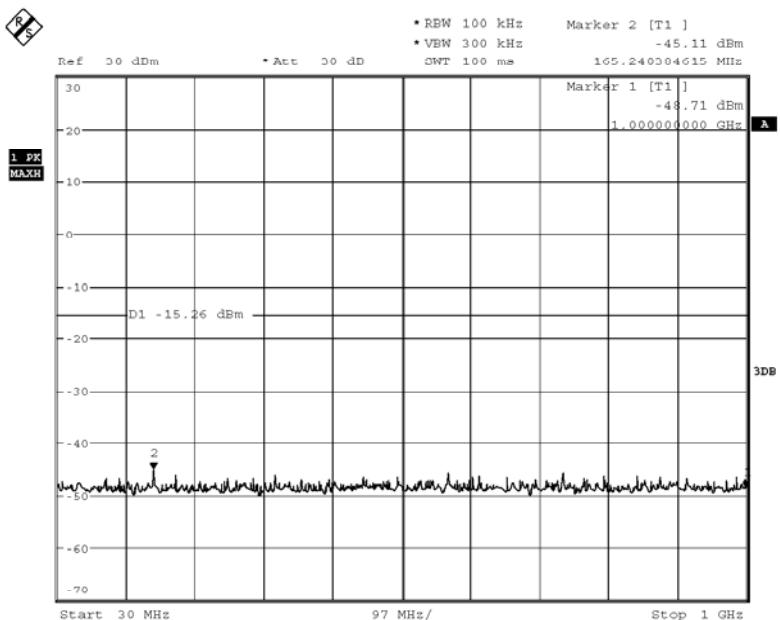
Sweep points =20001

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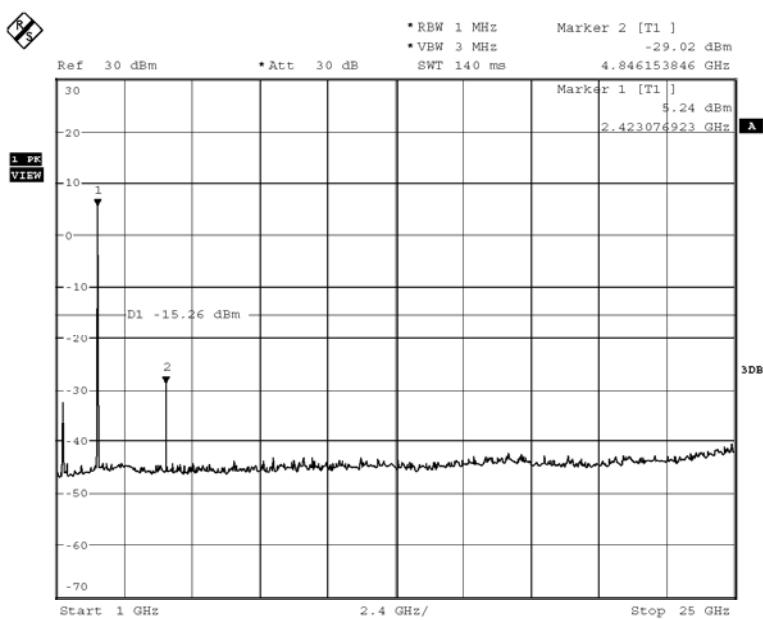
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Middle channel



Sweep points =20001



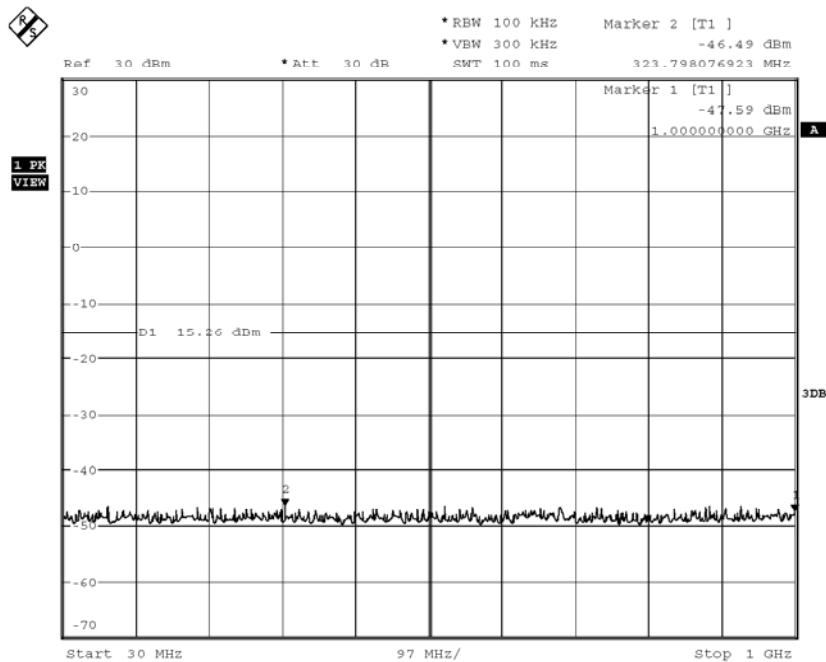
Sweep points =20001

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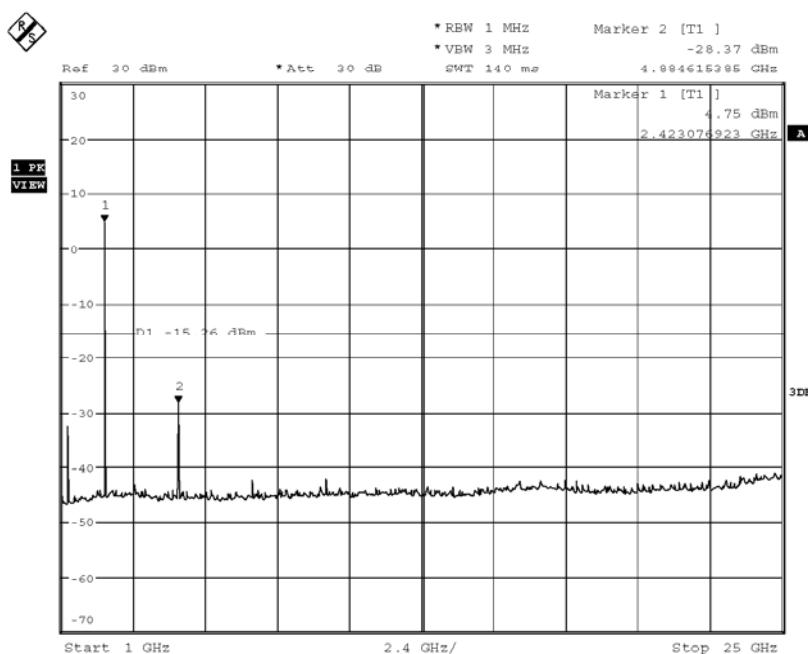
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High channel



Sweep points =20001



Sweep points =20001

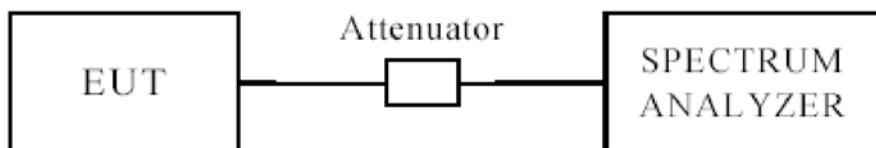
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

Test Result: Pass.

6dB Occupied Bandwidth

Please refer to the following tables

Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)
2419	1	743.7	>500
2431	1	743.5	>500
2450	1	743.4	>500

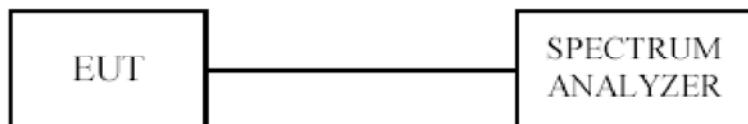
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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Spectrum connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the peak power was measured

Test Result

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2419	1	4.81	30
Mid	2431	1	4.75	30
High	2450	1	4.67	30

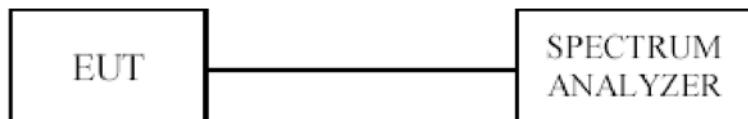
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \text{ RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode – max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.

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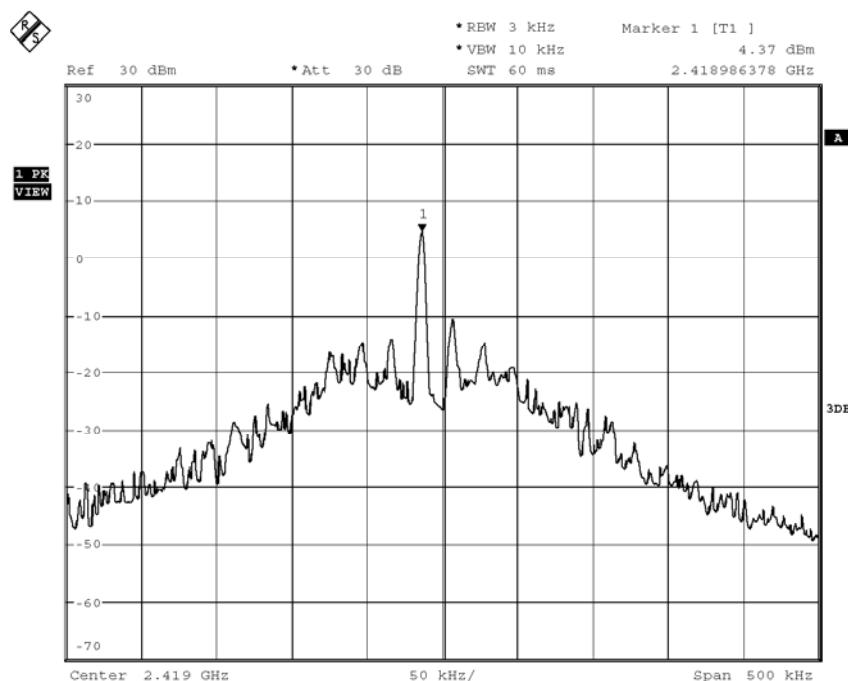
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Test Result

PASS

Channel Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	RESULT
2419	1	4.37	8	Compliant
2431	1	4.28	8	Compliant
2450	1	4.17	8	Compliant

Low Channel

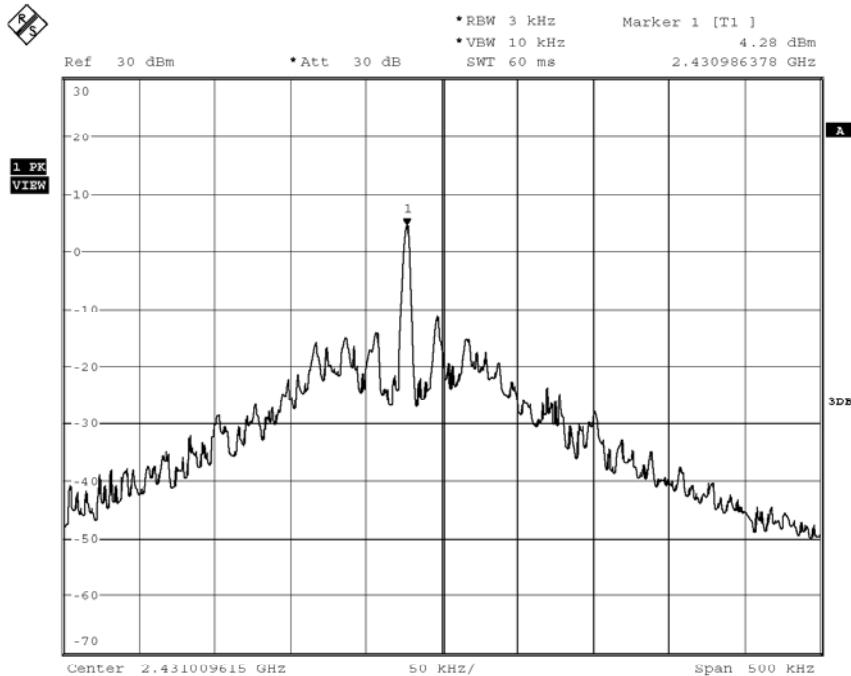


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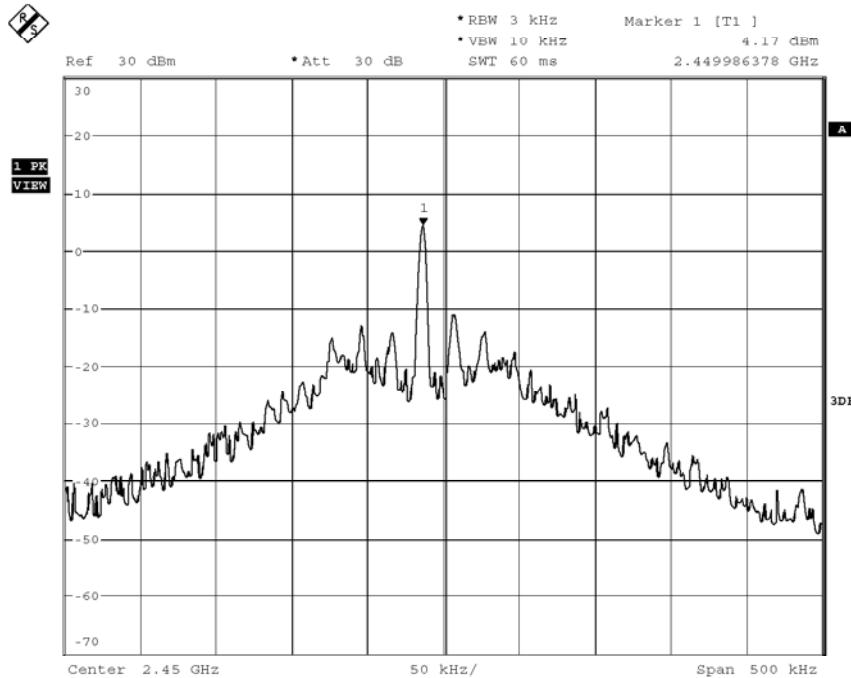
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Middle Channel



High Channel



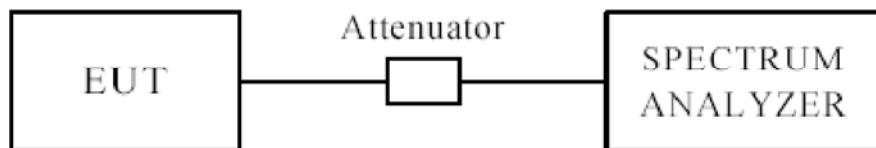
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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.(Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW100kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

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Radiated measurement:

Indicated		result (PK/AV)	Table Angle Degree	Antenna		Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dB μ V/m)			Height (m)	Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Low Channel (2419MHz)											
2390	39.75	AV	225	1.5	V	30.3	4.1	33.1	41.05	54	12.95
2390	39.74	AV	270	2	H	30.3	4.1	33.1	41.04	54	12.96
2390	57.02	PK	180	1.5	V	30.3	4.1	33.1	58.32	74	15.68
2390	55.29	PK	360	2	H	30.3	4.1	33.1	56.59	74	17.41
High Channel (2450MHz)											
2483.5	38.95	AV	270	1	V	31	4.4	32.7	41.65	54	12.35
2483.5	35.61	AV	225	2	H	31	4.4	32.7	38.31	54	15.69
2483.5	51.15	PK	270	1	V	31	4.4	32.7	53.85	74	20.15
2483.5	50.56	PK	90	2	H	31	4.4	32.7	53.26	74	20.74

Note: the BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

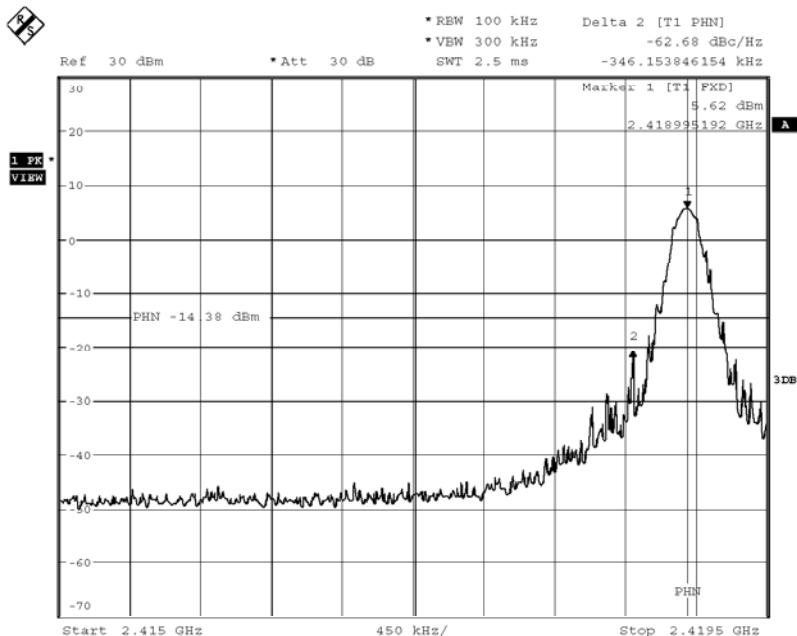
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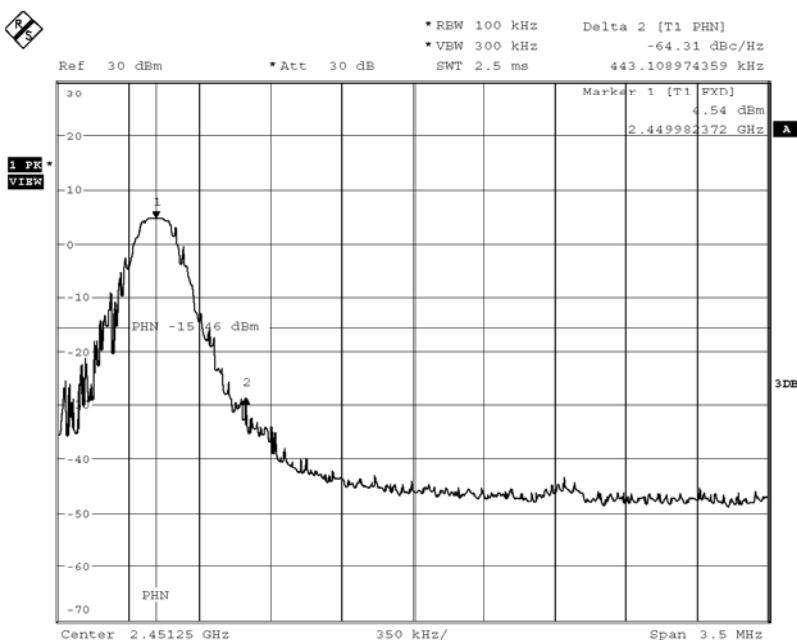
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Conducted measurement:

Low channel



High channel



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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Integrated antenna used. The maximum Gain of the antennas is 0.0dBi.

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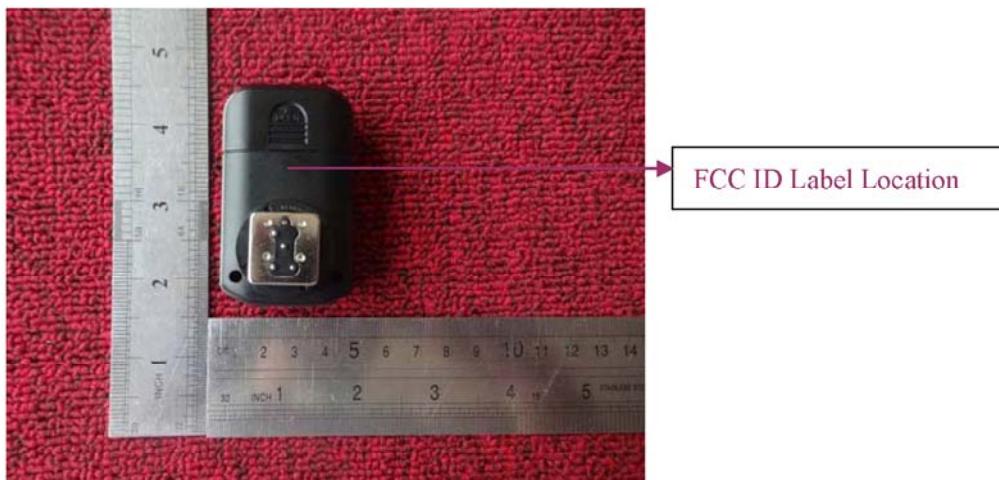
12.0 FCC ID Label

FCC ID: 2AB7JKR201N

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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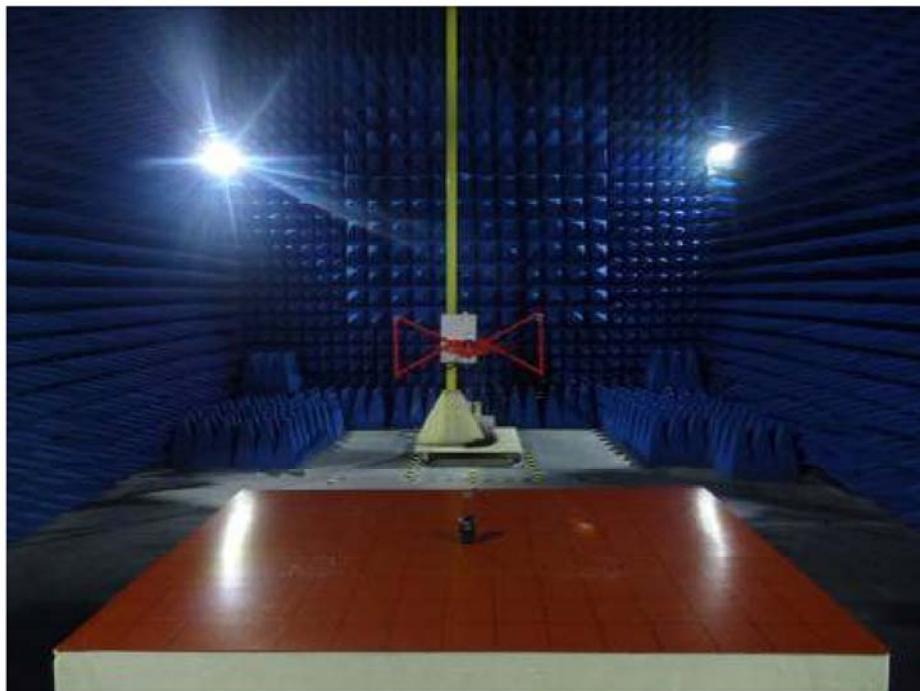
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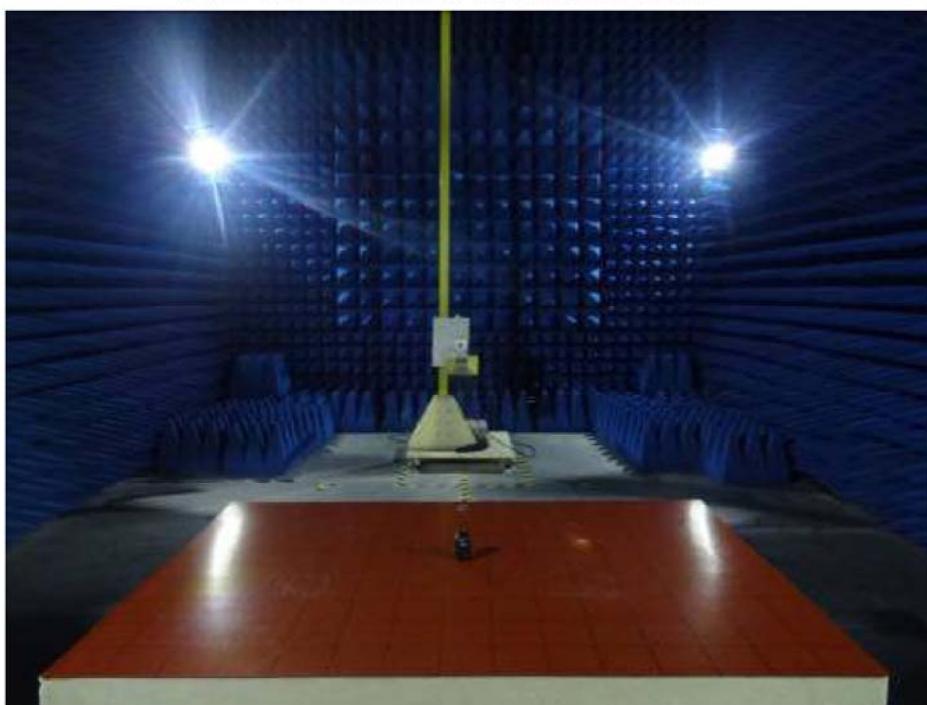
13.0 Photo of testing

PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST BELOW 1GHZ



RADIATED EMISSION TEST Above 1GHZ



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PHOTOGRAPHS OF EUT

Appearance photograph of EUT



Appearance photograph of EUT-Transmitter



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Appearance photograph of EUT- Transmitter



Appearance photograph of EUT- Transmitter



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Appearance photograph of EUT- Transmitter



Appearance photograph of EUT- Transmitter



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Appearance photograph of EUT- Transmitter



Internal photograph of EUT-Transmitter



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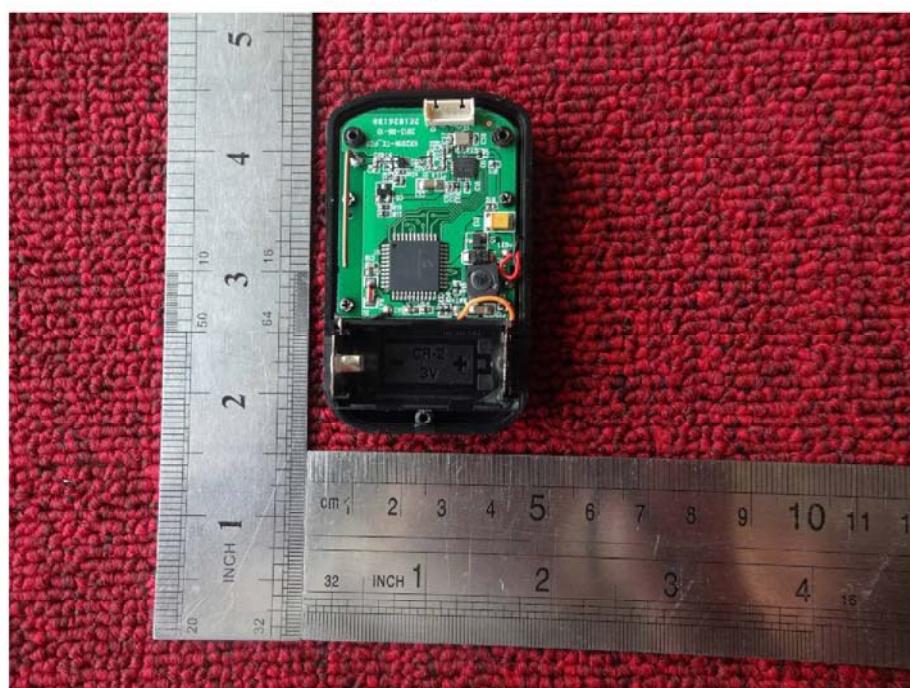
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Internal photograph of EUT-Transmitter



Internal photograph of EUT-Transmitter



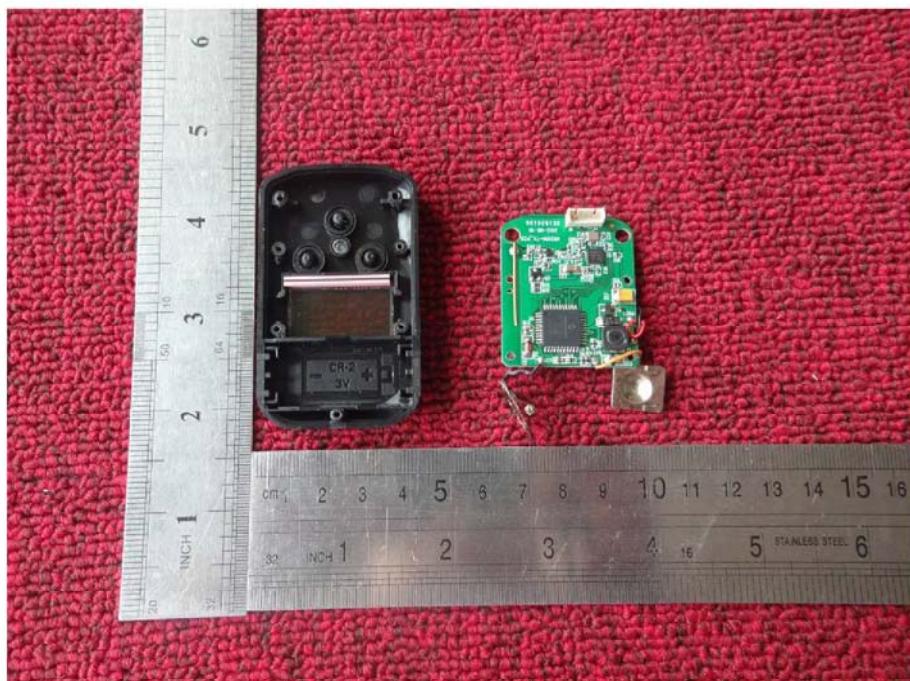
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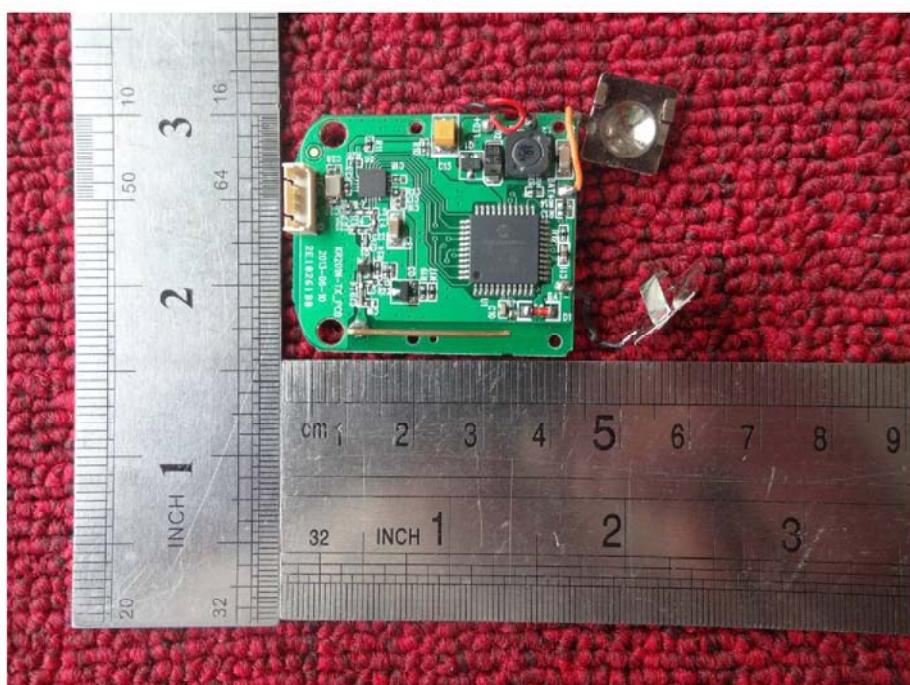
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Internal photograph of EUT-Transmitter



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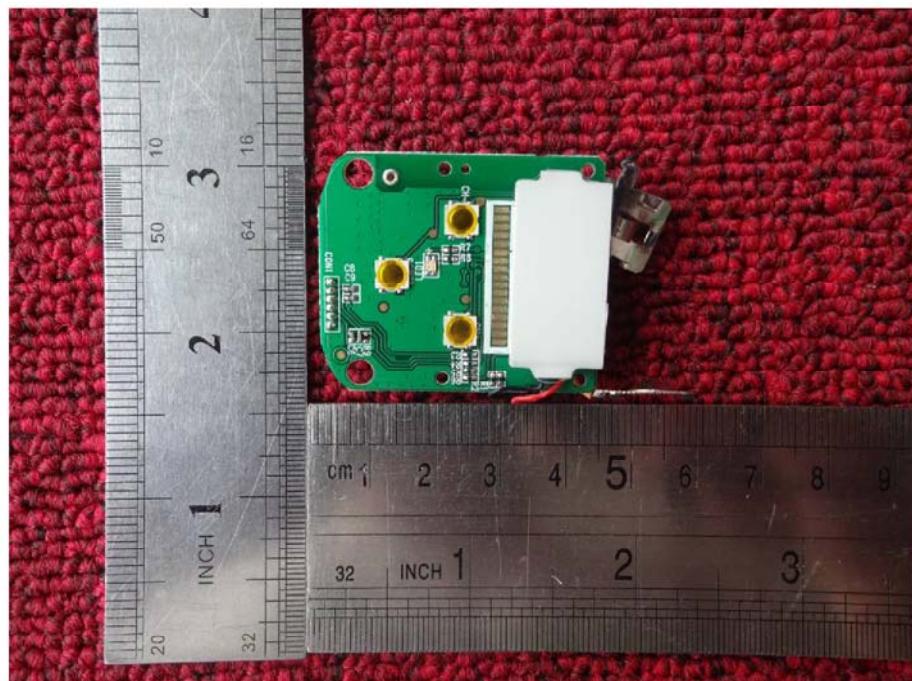


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Internal photograph of EUT-Transmitter



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Internal photograph of EUT-Transmitter



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