

## **TEST REPORT**

**FCC ID: 2AGQ59115** 

Applicant: XINLEHONG TOYS FACTORY

CHENGHAI DISTRICT, SHANTOU

Address : CITY, GUANGDONG PROVINCE, CHINA

#### **Equipment Under Test (EUT):**

Name	:	2.4G full proportion remote control car
Model	:	9109, 9112, 9115, 9116, 9117,9118, 9119, 9120, 9121, 9122, 9123, 9123-1, 9123-2, 9125, 9126, 9127, 9128, 9129, 9130, XLH87901, XLH87902, XLH87903, XLH87905, XLH87906, XLH87907, XLH87908, XLH87909, S911, S912, S913, S914, S915, S916,S917, S918, S919, S920, S921, S922, S923, S924, S925, S926, S927, S928, S929, S930

In Accordance with: FCC PART 15, SUBPART C: 2015 (Section 15.249)

Report No : T1851812 01

Rev. Rev. 1

Date of Test : November 25, 2015 to November 29, 2015

Date of Issue : November 29, 2015

Test Result : PASS

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu) General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Alpha Product Testing Co., Ltd Or test done by Shenzhen Alpha Product Testing Co., Ltd Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd Approvals in writing.

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### 1 General Information

### 1.1 Description of Device (EUT)

EUT : 2.4G full proportion remote control car

Model No. : 9109, 9112, 9115, 9116, 9117, 9118, 9119, 9120, 9121, 9122,

9123, 9123-1, 9123-2, 9125, 9126, 9127, 9128, 9129, 9130, XLH87901, XLH87902, XLH87903, XLH87905, XLH87906, XLH87907, XLH87908, XLH87909, S911,S912, S913, S914, S915, S916, S917, S918, S919, S920, S921, S922, S923, S924,

S925, S926, S927, S928, S929, S930

DIFF Only different in Model No and Color, the other the same. The test

model: 9115.

Trade mark : N/A

Power supply : DC 3V from battery, 2\*1.5V AA battery

Radio Technology : GFSK

Operation frequency: 2405-2470MHz

Channel No. 65 Channels

Modulation : GFSK

Antenna Type : Reversed Dipole Antenna, max gain 3dBi.

Applicant . XINLEHONG TOYS FACTORY

Address : CHENGHAI DISTRICT ,SHANTOU CITY ,GUANGDONG

PROVINCE, CHINA

Manufacturer : XINLEHONG TOYS FACTORY

Address : CHENGHAI DISTRICT ,SHANTOU CITY ,GUANGDONG

PROVINCE, CHINA

## 1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China

August 11, 2014 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC Registration Number: 12135A

# 2 EMC Equipment List

Equipment Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	2015.01.19	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	2015.01.19	1Year
Receiver	R&S	ESCI	101165	2015.01.19	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	2014.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2014.01.21	2Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	2014.01.21	2Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	2015.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	2015.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	309972/4	2015.01.19	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	2015.01.19	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	2015.01.19	1Year
Pre-amplifier	Quietek	AP-180C	CHM-0602012	2015.01.19	1Year
Test Receiver	Rohde & Schwarz	ESCI	101165	2015.01.19	1 Year

#### Report No.: T1851812 01

### 3 Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2014 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2014 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25 °C with a humidity of 58%.

**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 and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading. Example:

Freq (MHz) METER READING + ACF + CABLE = FS 33.20 dBuV + 10.36 dB + 0.9 dB = 44.46 dBuV/m @ 3m

ANSI STANDARD C63.4-2014 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. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2014 10.1.7 with the EUT 40 cm from the vertical ground wall.

## 4 Summary of Measurement

### 4.1 Summary of test result

Test Item	Test Requirement	Stanadard Paragraph	Result
Spurious Emission	FCC PART 15: 2015	Section 15.249&15.209	Compliance
Conduction Emission	FCC PART 15: 2015	Section 15.207	N/A
Occupied bandwidth	FCC PART 15: 2015	Section 15.249	Compliance
Band edge Requirement	FCC PART 15: 2015	Section 15.249	Compliance
Antenna Requirement	FCC PART 15: 2015	Section 15.203	Compliance

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power.

#### 4.2 Test connection

1, EUT was placed on a turn table, which is 0.8 meter high above ground.

#### TX Mode:

EUT

### 4.3 Assistant equipment used for test

Description	:	N/A
Manufacturer	:	N/A
Model No.	:	N/A

#### 4.4 Test mode

The EUT was used to control EUT work in Continuous TX mode, and select test channel, wireless mode. New battery is used during all test.

### Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2405	23	2428	45	2450
2	2406	24	2429	46	2451
3	2407	25	2430	47	2452
4	2408	26	2431	48	2453
5	2405	27	2432	49	2454
6	2410	28	2433	50	2455
7	2412	29	2434	51	2456
8	2413	30	2435	52	2457
9	2414	31	2436	53	2458
10	2415	32	2437	54	2459
11	2416	33	2438	55	2460
12	2417	34	2439	56	2461
13	2418	35	2439	57	2462
14	2419	36	2441	58	2463
15	2420	37	2442	59	2464
16	2421	38	2443	60	2465
17	2422	39	2444	61	2466
18	2423	40	2445	62	2467
19	2424	41	2446	63	2468
20	2425	42	2447	64	2469
21	2426	43	2448	65	2470
22	2427	44	2449	/	/

## 4.5 Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

## 4.6 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m	2.13 dB	Polarize: V
chamber (below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	3.54dB	Polarize: V
chamber (30MHz to 1GHz)	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	2.08dB	Polarize: H
chamber (1GHz to 25GHz)	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for DC and low frequency voltages	0.06%	

## 5 Spurious Emission

#### 5.1 Radiation Emission

### 5.1.1 Radiation Emission Limits(15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

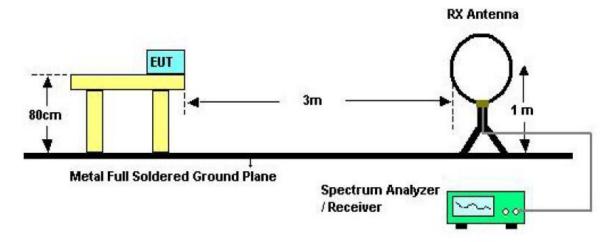
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

#### NOTE:

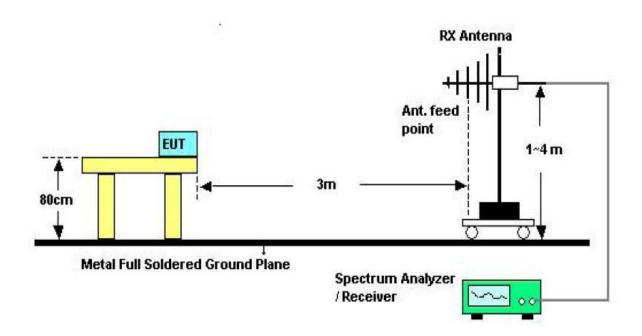
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

## 5.1.2 Test Setup

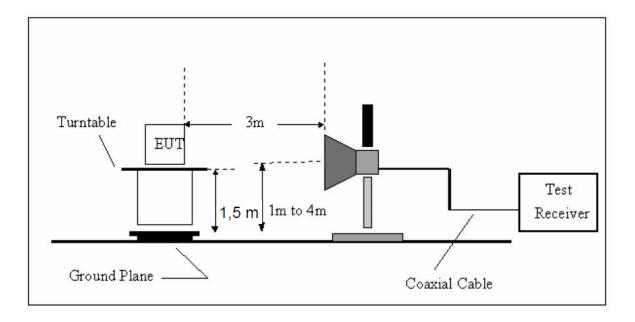
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

#### 5.1.3 Test Procedure

- a) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- b) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.
- c) The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range.
   Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- d) If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- e) For the actual test configuration, please see the test setup photo.
- f) Test for all x, y, z axes is performed and only the worst case of Y axes was recorded in the test report.
- 5.1.4 Test Equipment Setting For emission test Result.

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHZ~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

#### 5.1.5 Test Condition

Continual Transmitting in maximum power.

#### 5.1.6 Test Result

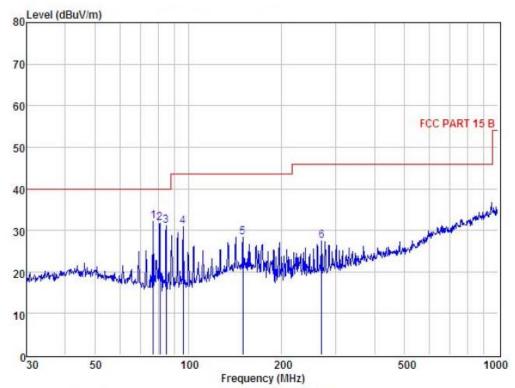
We have scanned the 10th harmonic from 9KHz to the EUT. Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Remark: Only show the test data of the worst Channel in this report.

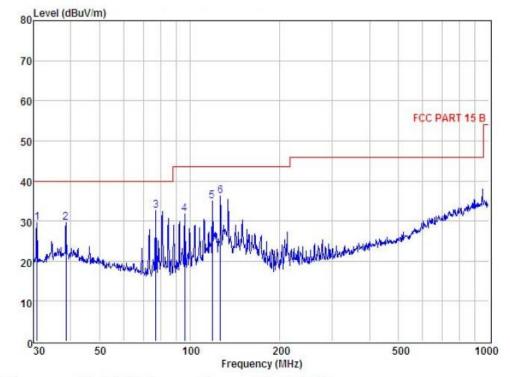
From 30MHz to 1000MHz: Conclusion: PASS



Condition : FCC PART 15 B 3m POL: HORIZONTAL
EUT :
Model No :
Test Mode :
Power :
Test Engineer :
Remark :
Temp : 24.2°C
Hum : 54%
Item Freq Read Antenna Preamp Cable Level L.

Item	Freq	Read Level	Antenna Factor	Preamp Factor		Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	77.05	52.25	9.60	30.06	0.29	32.08	40.00	-7.92	Peak
2	80.93	52.29	9.32	29.96	0.17	31.82	40.00	-8.18	Peak
3	84.70	51.65	9.38	30.09	0.26	31.20	40.00	-8.80	Peak
4	96.10	50.82	9.87	30.19	0.41	30.91	43.50	-12.59	Peak
5	150.01	43.25	14.16	29.45	0.39	28.35	43.50	-15.15	Peak
6	269.43	42.91	12.09	28.13	0.69	27.56	46.00	-18.44	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



Condition : FCC PART 15 B 3m POL: VERTICAL EUT : Model No :

Model No :
Test Mode :
Power :
Test Engineer :
Remark :

Remark : Temp : 24.2°C Hum : 54%

44.0000			4.0						
Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	30.85	47.25	13.22	30.98	0.07	29.56	40.00	-10.44	Peak
2	38.48	46.65	13.73	30.84	0.13	29.67	40.00	-10.33	Peak
3	77.05	52.68	9.60	30.06	0.29	32.51	40.00	-7.49	Peak
4	96.10	51.58	9.87	30.19	0.41	31.67	43.50	-11.83	Peak
5	119.02	52.16	12.06	29.68	0.33	34.87	43.50	-8.63	Peak
5	126,77	52.76	12.57	29.53	0.42	36.22	43.50	-7.28	Peak

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

1CH <sub>2</sub>	25GH <sub>7</sub>	Dadiated	amiccican	Test result
TOHX—	-2001112	Radiated	emissison	rest result

EUT: 2.4G full proportion remote control car M/N: 9115

Power: DC 3.0V From battery

Test date: 2015-11-26 Test site: 3m Chamber Tested by: Store Chu

Test mode: 2405MHz

Antenna polarity: Vertical

Ante	Antenna polarity: Vertical								
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2405	93.26	27.61	3.94	34.97	89.84	114	24.16	PK
2	2405	75.16	27.61	3.94	34.97	71.74	94	22.26	AV
3	4810	57.36	31.29	5.7	34.19	60.16	74	13.84	PK
4	4810	43.64	31.29	5.7	34.19	46.44	54	7.56	AV
5	2400	53.29	27.62	3.94	34.97	49.88	74	24.12	PK
6	2400	41.22	27.62	3.94	34.97	37.81	54	16.19	AV
	/								
Ante	Antenna Polarity: Horizontal								
1	2405	91.32	27.61	3.94	34.97	87.9	114	26.1	PK
2	2405	75.09	27.61	3.94	34.97	71.67	94	22.33	AV
3	4810	55.26	31.29	5.7	34.19	58.06	74	15.94	PK
4	4810	38.46	31.29	5.7	34.19	41.26	54	12.74	AV
5	2400	51.09	27.62	3.94	34.97	47.68	74	26.32	PK
6	2400	40.29	27.62	3.94	34.97	36.88	54	17.12	AV
	/								

#### Note:

- 1,Measuring frequency from 1GHz to 25GHz
- 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2,Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

EUT: 2.4G full proportion remote control car M/N: 9115										
Powe	r: DC 3.0	V From bat	ttery							
Test date: 2015-11-26 Test site: 3m Chamber Tested by: Store Chu										
Test mode: 2439MHz										
Anter	Antenna polarity: Vertical									
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss(d B)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	
1	2439	92.59	27.6	3.97	34.97	89.19	114	24.81	PK	
2	2439	73.26	27.6	3.97	34.97	69.86	94	24.14	AV	
3	4878	54.26	31.38	5.75	34.14	57.25	74	16.75	PK	
4	4878	41.06	31.38	5.75	34.14	44.05	54	9.95	AV	
	/	/								
Anter	nna Polari	ity: Horizor	ntal							
1	2439	90.43	27.6	3.97	34.97	87.03	114	26.97	PK	
2	2439	71.76	27.6	3.97	34.97	68.36	94	25.64	AV	
3	4878	55.26	31.38	5.75	34.14	58.25	74	15.75	PK	
4	4878	40.72	31.38	5.75	34.14	43.71	54	10.29	AV	

#### Note:

- 1, Measuring frequency from 1GHz to 25GHz
- 2,Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2,Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

EUT: 2.4G full proportion remote control car M/N: 9115											
Pow	er: DC	3.0V From	battery								
Test date: 2015-11-26 Test site: 3m Chamber Tested by: Store Chu											
Test	mode: 2	470MHz									
Antenna polarity: Vertical											
No	Freq (MHz)	Read Level (dBuV/m)	Antenna Factor (dB/m)	Cable loss (dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remar k		
1	2470	93.28	27.59	4	34.97	89.9	114	24.1	PK		
2	2470	72.45	27.59	4	34.97	69.07	94	24.93	AV		
3	4940	55.14	31.43	5.79	34.12	58.24	74	15.76	PK		
4	4940	43.19	31.43	5.79	34.12	46.29	54	7.71	AV		
5	2483.5	50.75	27.59	4	34.97	47.37	74	26.63	PK		
6	2483.5	39.68	27.59	4	34.97	36.3	54	17.7	AV		
	/	/									
Ante	nna Pola	arity: Horizo	ntal								
1	2470	91.26	27.59	4	34.97	87.88	114	26.12	PK		
2	2470	68.93	27.59	4	34.97	65.55	94	28.45	AV		
3	4940	52.81	31.43	5.79	34.12	55.91	74	18.09	PK		
4	4940	41.16	31.43	5.79	34.12	44.26	54	9.74	AV		
5	2483.5	50.29	27.59	4	34.97	46.91	74	27.09	PK		
6	2483.5	41.31	27.59	4	34.97	37.93	54	16.07	AV		
	/	/									

#### Note:

- 1, Measuring frequency from 1GHz to 25GHz
- 2, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2,Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

## 6 POWER LINE CONDUCTED EMISSION

### 6.1 Conducted Emission Limits(15.207)

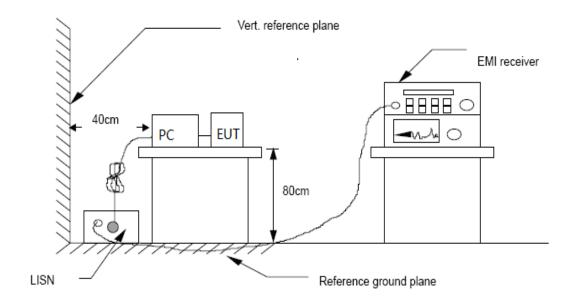
Frequency	Limits dB(μV)				
MHz	Quasi-peak Level	Average Level			
0.15 -0.50	66 -56*	56 - 46*			
0.50 -5.00	56	46			
5.00 -30.00	60	50			

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

## 6.2 Test Setup



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#### 6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2014 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

#### 6.4 Test Results

Not apply to battery operated products.

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### 7 Bandwidth

#### 7.1 Test limit

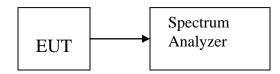
Please refer section 15.249

#### 7.2 Method of measurement

a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

b)The test receiver RBW set 30KHz,VBW set 100KHz,Sweep time set auto.

### 7.3 Test Setup



#### 7.4 Test Results

PASS.

Detailed information please see the following page.

Channel	Frequency (MHz)	20dB Bandwidth (KHz)	Limit (KHz)	Result
CH1	2405	746.5	/	PASS
СН34	2439	735.2	/	PASS
CH65	2470	750.7	/	PASS

#### CH Low:



#### CH Mid:



#### CH High:



## 8 Antenna Requirement

#### 8.1 Standard Requirement

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 use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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#### 8.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 3dBi, and is a PCB Antenna and no consideration of replacement. Please see EUT photo for details.

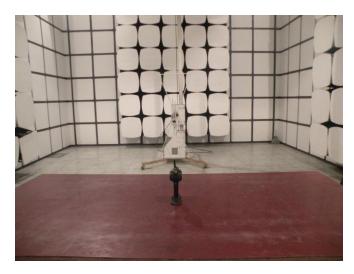
#### 8.3 Result

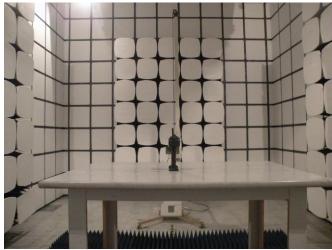
The EUT antenna is PCB Antenna. It comply with the standard requirement.

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# 9 Photographs of Test Setup

## 4.7 Photos of Radiated emission





# 10 Photographs of EUT











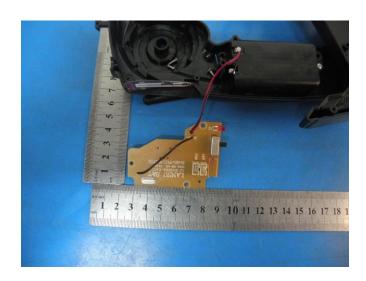


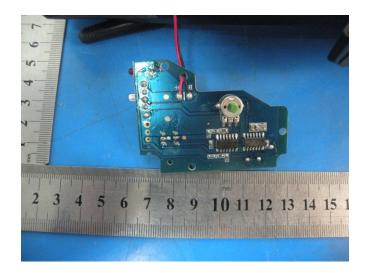












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