

# Shenzhen Certification Technology Service Co., Ltd 2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen518126, P.R. China.

### TEST REPORT

FCC ID: 2ACZK-VC500

Applicant : Gradus Group

Address : 375 West 35th Street, New York, NY 10001

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

Name : remote controller

Model : VC-500WLXMT

**Standards**: FCC PART 15, SUBPART C: 2013 (Section 15.249)

**Report No.** : CST-TCB140721044

**Date of Test** : July 22-August 15, 2014

**Date of Issue** : August 18, 2014

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 Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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### 1 General Information

### 1.1 Description of Device (EUT)

Trade Name : impact

EUT : remote controller

Model No. : VC-500WLXMT

Type of Antenna : PCB Antenna, Max. Gain: 0dBi

Operation

Frequency

: 2401-2480MHz

Channel number : 16

Modulation type : FSK

Power Supply : DC 3V Supply by battery

Applicant

· Gradus Group

Address : 375 West 35th Street, New York, NY 10001

Manufacturer : YUYAO VISTAR ELECTRONIC SCIENCE & TECHNOLOGY

CO.,LTD.

Address : NO.206 BEIXING ROAD OF WEST CITY INDUSTRIAL

DEVELOPMENT ZONE, YUYAO CITY, ZHEJIANG, CHINA

### 1.2 Description of Test Facility

Shenzhen Certification Technology Service Co., Ltd. 2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China FCC Registered No.:197647

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# 2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	Nov.16, 13	1Year
Spectrum analyzer	Agilent	E4407B	MY46185649	Oct. 30, 13	1Year
Receiver	R&S	ESCI	100492	Oct. 30, 13	1Year
Receiver	R&S	ESCI	101202	Oct. 30, 13	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB9168-438	Mar.11, 14	1Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	Mar.11, 14	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170 D(1432)	Mar.11, 14	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	Mar.11, 14	1Year
Cable	Resenberger	SUCOFLEX 104	MY6562/4	Oct. 30, 13	1Year
Cable	Resenberger	SUCOFLEX 104	309972/4	Oct. 30, 13	1Year
Cable	Resenberger	SUCOFLEX 104	329112/4	Oct. 30, 13	1Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	Oct. 30, 13	1Year
Pre-amplifier	R&S	AFS33-180026 50-30-8P-44	SEL0080	Oct. 30, 13	1Year
Power Meter	Anritsu	ML2487A	6K00001491	Oct. 30, 13	1Year
Power sensor	Anritsu	ML2491A	32516	Oct. 30, 13	1Year

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#### 3 Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard C63.4-2003 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 C63.4-2003 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:

ANSI STANDARD C63.4-2003 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 C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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### 4 Summary of Measurement

### 4.1 Summary of test result

Test Item	Test Requirement	Stanadard Paragraph	Result
Spurious Emission	FCC PART 15: 2013	Section 15.249&15.209	Compliance
Conduction Emission	FCC PART 15: 2013	Section 15.207	Not applicable
Occupied bandwidth	FCC PART 15: 2013	Section 15.249	Compliance
Band edge Requirement	FCC PART 15: 2013	Section 15.249	Compliance
Antenna Requirement	FCC PART 15: 2013	Section 15.203	Compliance

Note: EUT can by powered with inside battery, according to exploratory test, when powered by battery have worse emissions, and also can make sure EUT have enough power for wireless work, so all the final test were performed with new battery.

### 4.2 Test mode

Tested mode, chan	Tested mode, channel information								
Mode	Channel	Frequency (MHz)							
	СНО	2401							
	CH1	2408							
	CH2	2416							
	СН3	2424							
	CH4	2432							
	CH5	2440							
	СН6	2444							
FSK	CH7	2448							
rsk	СН8	2452							
	СН9	2456							
	CH10	2460							
	CH11	2464							
	CH12	2468							
	CH13	2472							
	CH14	2476							
	CH15	2480							

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### 4.3 Block Diagram

**EUT** 

### 4.4 Assistant equipment used for test

Description : N/A

Manufacturer : N/A

Model No. : N/A

### 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	2.50dB	
Uncertainty for Radiation Emission test in 3m chamber	2.13 dB	Polarize: V
(below 30MHz)	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	3.04dB	Polarize: V
chamber (30MHz to 1GHz)	3.02dB	Polarize: H
Uncertainty for Radiation Emission test in 3m	3.84dB	Polarize: H
chamber (1GHz to 25GHz)	3.56dB	Polarize: V
Uncertainty for radio frequency	1×10 <sup>-9</sup>	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	3%	
Uncertainty for DC and low frequency voltages	0.06%	

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### 5 POWER LINE CONDUCTED EMISSION

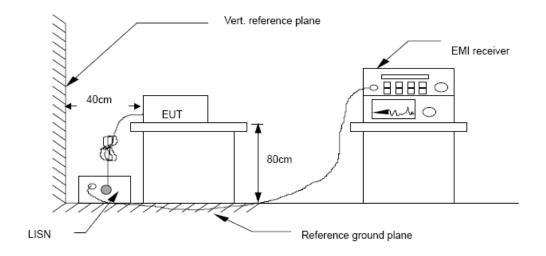
### 5.1 Conducted Emission Limits(15.209&249)

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.

### 5.2 Test Setup



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#### 5.3 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 C63.4-2003 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

#### 5.4 Test Results

EUT Supply by DC battery, so the test is not applicable.

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### 6 Radiation Emission

### 6.1 Radiation Emission Limits(15.209&249 (a))

Frequency (MHz)	Field Strength Limits at 3 metres (watts,e.i.r.p.)						
(IVIIIZ)	uV/m	dB uV/m	Measurement distance(m)				
0.009-0.490	2400/F(kHz)	XX	300				
0.490-1.705	24000/F(kHz)	XX	30				
1.705-30	30	29.5	30				
30~88	100(3nW)	40	3				
88~216	150(6.8nW)	43.5	3				
216~960	200(12nW)	46	3				
Above960	500(75nW)	54	3				
Carrier frequency		93.97(AV)	3				
Carrier frequency		113.97(PK)	3				

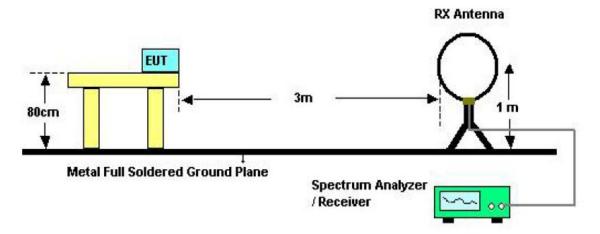
#### NOTE:

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

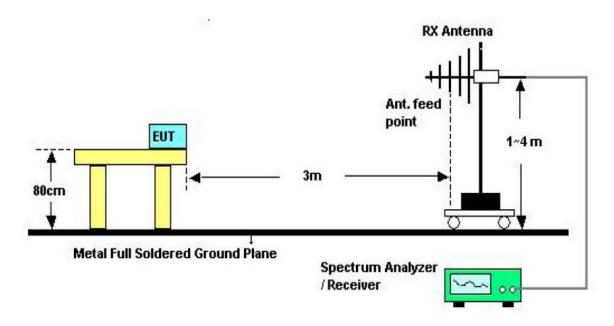
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### 6.2 Test Setup

See the next page

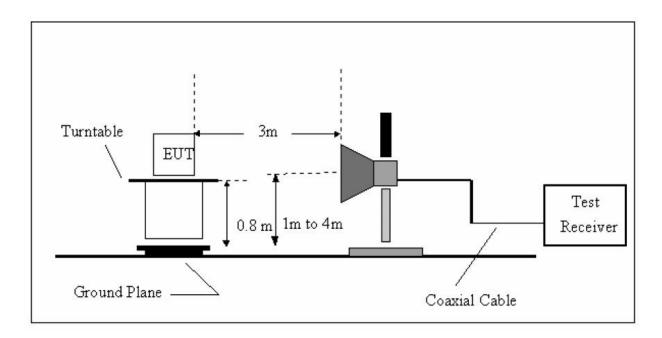


Below 30MHz Test Setup



Above 30MHz Test Setup

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Above 1GHz Test Setup

#### 6.3 Test Procedure

- a) The measureing 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. Significent Peaks are then marked and then Qusia Peak Detector mode remeasured
- 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.

Note: 3 axes be tested in the radiated emission test, only the Y axes worst case was recorded in the test report.

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### 6.4 Test Equipment Setting For emission test.

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

### 6.5 Test Condition

Continual Transmitting in maximum power.

#### 6.6 Test Result

#### PASS.

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

From 9KHz to 30MHz: Conclusion: PASS

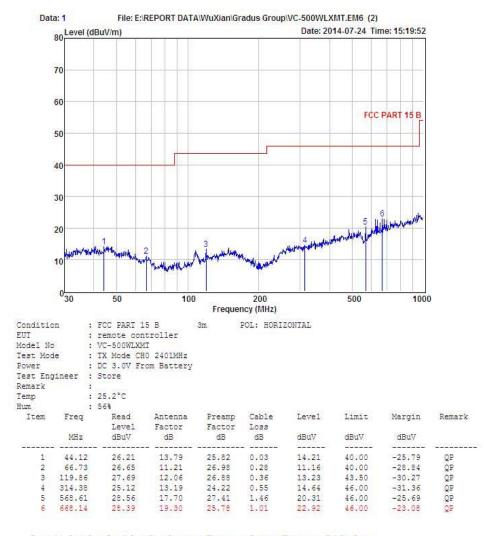
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Below 1GHz test data:

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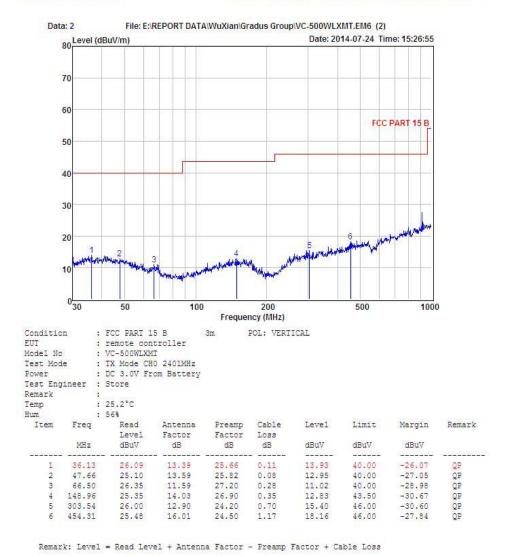
Shenzhen Certification Technology Service Co., Ltd. 2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China Tel: 4006786199 FAX: +86-755-26736857
Website: http://www.cessz.com/Email: Service@cessz.com/



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



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Website: http://www.cessz.com/Email: Service@cessz.com/



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**Notes:** --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

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Radiated Emissions Result of Inside band (2401MHz)

)								
EUT	remote controller	Model Name	VC-500WLXMT,					
Temperature	25°C	Relative Humidity	56%					
Pressure	960hPa	Test voltage	DC 3V supply by battery					
<b>Test Mode</b>	TX Low	Antenna polarization	Horizontal/Vertical					

	Channel Low(2401MHz)								
Fre.	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB
2401	Н	96.57 (PK)	27.62	3.94	34.97	-3.41	93.16	113.97	-20.81
2401	Н	89.02 (AV)	27.62	3.94	34.97	-3.41	85.61	93.97	-8.36
	Н								
2401	V	94.93 PK)	27.62	3.94	34.97	-3.41	91.52	113.97	-22.45
2401	V	88.25 (AV)	27.62	3.94	34.97	-3.41	84.84	93.97	-9.13
	V					-			-1

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	Actual Fs		AV Limit	Margin (dB)	
(1/1111)	12 (	(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	` ′	(dBuV/m)	` /	Remark
1482.84	Н	53.22		-10.27	42.95		74.00	54.00	-11.05	Peak
1942.37	Н	52.73		-8.86	43.87		74.00	54.00	-10.13	Peak
2652.64	Н	51.07		-6.94	44.13		74.00	54.00	-9.87	Peak
4802.00	Н	43.14		0.64	43.78		74.00	54.00	-10.22	Peak
N/A										
1215.62	V	55.16		-11.52	43.64		74.00	54.00	-10.36	Peak
1822.41	V	51.62		-9.16	42.46		74.00	54.00	-11.54	Peak
2795.23	V	50.83		-6.38	44.45		74.00	54.00	-9.55	Peak
4802.00	V	43.98		0.64	44.62		74.00	54.00	-9.38	Peak
N/A										

Notes: 1 -- Means other frequency and mode comply with standard requirements and at least have 20dB margin. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

- **2** –Spectrum setting:
  - a. Peak setting 30MHz-1GHz, RBW=120KHz, VBW=300KHz.
  - b. AV setting 30MHz-1GHz, RBW=1MHz, VBW=10Hz.

### Radiated Emissions Result of Inside band (2452MHz)

EUT	remote controller	Model Name	VC-500WLXMT,
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 3V supply by battery
Test Mode	TX Mid	Antenna polarization	Horizontal/Vertical

	Channel Low(2452MHz)										
Fre.	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB		
2452	Н	98.91 (PK)	27.61	3.96	34.97	-3.4	95.51	113.97	-18.46		
2452	Н	88.49 (AV)	27.61	3.96	34.97	-3.4	85.09	93.97	-8.88		
	Н										
2452	V	97.36 (PK)	27.61	3.96	34.97	-3.4	93.96	113.97	-20.01		
2452	V	89.52 (AV)	27.61	3.96	34.97	-3.4	86.12	93.97	-7.85		
	V		-				-	-	1		

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Margin (dB)	_
(===)		(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	` ′	Remark
1232.74	Н	55.78		-11.52	44.26	-	74.00	54.00	-9.74	Peak
2212.07	Н	51.50		-8.13	43.37		74.00	54.00	-10.63	Peak
2931.38	Н	49.90		-5.95	43.95		74.00	54.00	-10.05	Peak
4904.00	Н	42.23		0.76	42.99		74.00	54.00	-11.01	Peak
N/A										
1304.41	V	53.97		-10.84	43.13		74.00	54.00	-10.87	Peak
2308.42	V	50.92		-7.46	43.46		74.00	54.00	-10.54	Peak
3142.13	V	49.84		-5.63	44.21		74.00	54.00	-9.79	Peak
4904.00	V	42.00		0.76	42.76		74.00	54.00	-11.24	Peak
N/A										

**Notes: 1** --Means other frequency and mode comply with standard requirements and at least have 20dB margin. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

**2** –Spectrum setting:

a. Peak setting 30MHz-1GHz, RBW=120KHz, VBW=300KHz.

b. AV setting 30MHz-1GHz, RBW=1MHz, VBW=10Hz.

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### Report No.: CST-TCB140721044

Radiated Emissions Result of Inside band (2480MHz)

EUT	remote controller	Model Name	VC-500WLXMT,
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 3V supply by battery
Test Mode	TX High	Antenna polarization	Horizontal/Vertical

	Channel Low(2480MHz)									
Fre.	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB	
2480	Н	97.53 (PK)	27.59	4.00	34.97	-3.38	94.15	113.97	-19.82	
2480	Н	88.40 (AV)	27.59	4.00	34.97	-3.38	85.02	93.97	-8.95	
	Н									
2480	V	96.37 (PK)	27.59	4.00	34.97	-3.38	92.99	113.97	-20.98	
2480	V	89.02 (AV)	27.59	4.00	34.97	-3.38	85.64	93.97	-8.33	
	V									

Freq. (MHz)	Ant. Pol H/V	Peak Reading	AV Reading	Ant. / CL CF	Actu	al Fs	Peak Limit	AV Limit	Margin (dB)	
(14112)	11/ \	(dBuV)	(dBuV)	(dB)	Peak (dBuV/m)	AV (dBuV/m)	(dBuV/m)	(dBuV/m)	( <b>uD</b> )	Remark
1251.37	Н	55.24		-10.96	44.28		74.00	54.00	-9.72	Peak
1948.12	Н	52.49		-8.64	43.85		74.00	54.00	-10.15	Peak
2934.72	Н	48.73		-5.95	42.78		74.00	54.00	-11.22	Peak
4960.00	Н	42.49		0.87	43.36		74.00	54.00	-10.64	Peak
N/A										
1292.70	V	54.14		-10.96	43.18		74.00	54.00	-10.82	Peak
2115.42	V	51.01	-	-8.36	42.65	-	74.00	54.00	-11.35	Peak
3239.28	V	47.82		-5.39	42.43		74.00	54.00	-11.57	Peak
4960.00	V	43.21		0.87	44.08		74.00	54.00	-9.92	Peak
N/A										

**Notes: 1** --Means other frequency and mode comply with standard requirements and at least have 20dB margin. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain

 $Measurement\ Result = Reading + Correct\ Factor$ 

Margin=Measurement Result-Limit

**2** –Spectrum setting:

- a. Peak setting 30MHz-1GHz, RBW=120KHz, VBW=300KHz.
- b. AV setting 30MHz-1GHz, RBW=1MHz, VBW=10Hz.

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### 7 Occupied bandwidth

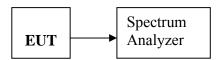
#### 7.1 Test limit

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 10KHz,VBW set 30KHz,Sweep time set auto.

#### 7.3 Test Setup

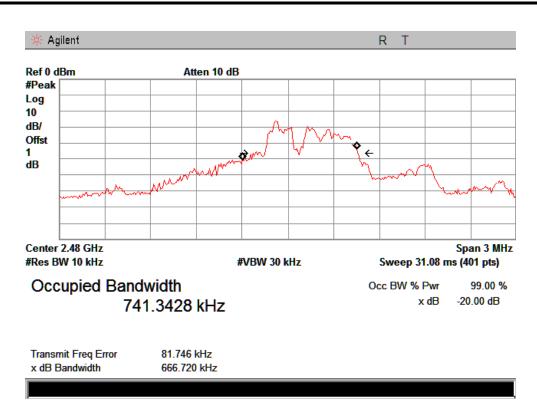


#### 7.4 Test Results

Detailed information please see the following page.

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### 8 Band Edge Check

#### 8.1 Test limit

Please refer section 15.249 and section 15.205.

249(d) 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 section 15.209, whichever is the lesser attenuation.

249(e) As show in section 15.35(b), for frequencies above 1000MHz,the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak filed strength shall not exceed 2500 millivolts/meter at 3meters along the antenna azimuth.

#### 8.2 Test Procedure

- 8.2.1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 8.2.2. Set spectrum analyzer please see the following test plot.
- 8.2.3. Set the spectrum analyzer as RBW, VBW=1000 KHz,
- 8.2.4. Max hold, view and count how many channel in the band.

### 8.3 Test Setup

Please see the section 6.2, Above 1GHz Test Setup.

#### 8.4 Test Result

Pass.

Detailed information please see the following page.

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EUT	remote controller	Model Name	VC-500WLXMT,
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 3V supply by battery
Test Mode	TX Low	Antenna polarization	Horizontal/Vertical

	Channel Low(2401MHz)									
Fre.	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB	
2400	Н	68.62 (PK)	27.62	3.94	34.97	-3.41	65.21	74.00	-8.79	
2400	Н	50.34 (AV)	27.62	3.94	34.97	-3.41	46.93	54.00	-7.07	
	Н		-			1	1		1	
2400	V	70.20 (PK)	27.62	3.94	34.97	-3.41	66.79	74.00	-7.21	
2400	V	52.57 (AV)	27.62	3.94	34.97	-3.41	49.16	54.00	-4.84	
	V					-			-	

EUT	remote controller	Model Name	VC-500WLXMT,
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 3V supply by battery
Test Mode	TX High	Antenna polarization	Horizontal/Vertical

	Channel Low(2480MHz)									
Fre.	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB	
2483.5	Н	68.63 (PK)	27.59	4.00	34.97	-3.38	65.25	74.00	-8.75	
2483.5	Н	51.17 (AV)	27.59	4.00	34.97	-3.38	47.79	54.00	-6.21	
	Н		-			1	1	1	-	
2483.5	V	67.75 (PK)	27.59	4.00	34.97	-3.38	64.37	74.00	-9.63	
2483.5	V	52.56 (AV)	27.59	4.00	34.97	-3.38	49.18	54.00	-4.82	
	V									

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### 9 Antenna Requirement

### 9.1 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.

#### 9.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is 0 dBi, and the de-signed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

#### 9.3 Result

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

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# 10 Photographs of Test Setup

# Photographs-Radiated Emission Test Setup in Chamber Below 1G



Above 1G



## 11 Photographs of EUT





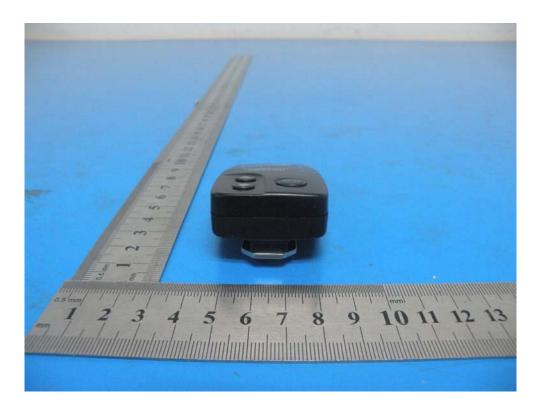
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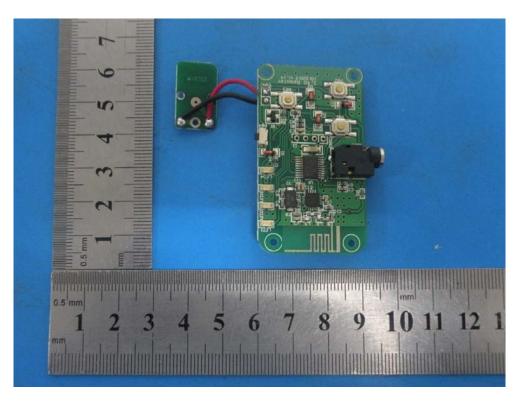




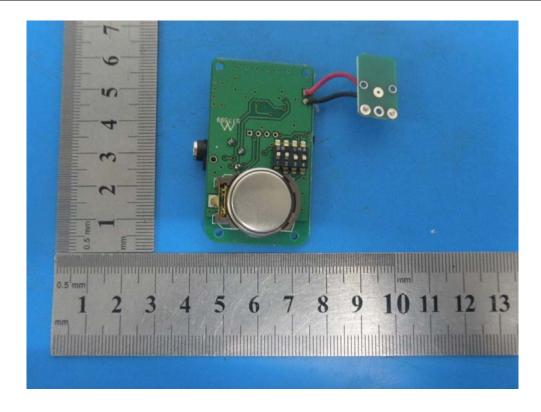








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