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# FCC RADIO TEST REPORT FCC ID: 2AMJYTC-X4DB-A

**Product:** Smart Video Door Phone

Trade Name: N/A

Model Name: TC-X4DB-A

Serial Model: TC-X6KT-DB, TC-X4DB-B, TC-X4DB-C, TC-X4DB-D, TC-X4DB-E, TC-X4DB-F

### **Prepared for**

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### Prepared by

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### **TEST RESULT CERTIFICATION**

Applicant's name:	Zhuhai Taichuan Cloud Technology Co., Ltd				
Address:	Bldg1 Taichuan Technopark No. 611 Huawei Road Qianshan Xiangzhou 519075 Zhuhai Guangdong China				
Manufacture's Name:	Zhuhai Taichuan Cloud Technology Co., Ltd				
Address:	Bldg1 Taichuan Technopark No. 611 Huawei Road Qianshan Xiangzhou 519075 Zhuhai Guangdong China				
Product description					
Product Name:	Smart Video Door Phone				
Model and/or type reference :	TC-X4DB-A				
Serial Model:	TC-X6KT-DB, TC-X4DB-B, TC-X4DB-C, TC-X4DB-D, TC-X4DB-E, TC-X4DB-F				
Standards:	FCC Part15.231:2017				
Test procedure	ANSI C63.10-2013				
	s been tested by ATT, and the test results show that the equipment be with the FCC requirements. And it is applicable only to the tested				
This report shall not be reprodu	ced except in full, without the written approval of ATT, this				
document may be altered or rev	ised by ATT, personal only, and shall be noted in the revision of the				
Date of Test					
Date (s) of performance of tests					
Date of Issue					
Test Result	Pass				
Testing Engine	eer : Jank Yn (Jack Yu)				
	(Jack Yu)				
TashniasiMar	701400 4514				
Technical Mar	iagei :  ˈ//				

Authorized Signatory:

(Jerry You)

(Can Liu)



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#### 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.231)				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	Pass		
15.203	Antenna Requirement Pass			
15.231	Radiated Spurious Emission	Pass		
15.231	Occupied Bandwidth	Pass		
15.231	Transmitter Timeout	Pass		

#### NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.



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#### 1.1 TEST FACILITY

Shenzhen Asia Test Technology Co.,Ltd.

7 / F, Xinwei Building, Gushu Village, Xixiang Town, Baoan District, Shenzhen, China FCC Registration No.: 348715; IC Registration No.: 12198A

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



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#### 2. GENERAL INFORMATION

#### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Video Door Phone			
Trade Name	N/A			
Model Name	TC-X4DB-A			
Serial Model	TC-X6KT-DB, TC-X4D TC-X4DB-E, TC-X4DB-	B-B, TC-X4DB-C, TC-X4DB-D, F		
Model Difference	All models are identical	except model name and colors.		
	The EUT is a Smart Vic	deo Door Phone		
	Product Type	Remote Control		
	Operation Frequency:	433.92MHz		
Product Description	Modulation Type:	FSK		
	Number Of Channel	1CH.		
	Antenna Designation:	spring Antenna		
	Antenna Gain(Peak)	0 dBi		
Channel List	N/A			
	M/N:RS-AB015J00-E			
Adapter	Input:100-240V~, 50/60Hz, 0.6A			
	Output:12Vdc, 1.5A			
Battery	DC 12V, 1.5A			
Software version	V1.0			
Hardware Version	V1.1			

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 2.

#### Table for Filed Antenna

A	\nt	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	1	N/A	N/A	spring Antenna	NA	0	Antenna



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#### 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX

For Conducted Emission			
Final Test Mode Description			
Mode 1	N/A		

For Radiated Emission			
Final Test Mode Description			
Mode 1	TX		

#### Note:

- (1) The EUT used new battery during the measurement.
- (2) After The pre-test All button emission frequency, modulation mode and power. Only recorded the worst case result in this report.
- (3) All test mode perform on continuous transmission mode. Use the test software test\_cc1100.exe provide by manufacturer.



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#### 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

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### 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Smart Video Door Phone	N/A	TC-X4DB-A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.



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#### 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Equipment No.	Instrument	Manufacturer	Model Name	Serial Number	Specification	calibration Data	calibration due date
1	Semi-anechoic chamber	Changzhou Chengyu	EC3088	N/A	9*6*6m	10/25/2016	10/24/2017
2	Broadband antenna	R&S	VULB 9160	VULB91 60-516	30MHz-1500 MHz	10/25/2016	10/24/2017
3	Horn antenna	R&S	BBHA 9120D	10087	1GHz-18GH z	06/05/2016	10/24/2017
4	EMI Measuring Receiver	R&S	ESR	101660	9KHz-40GHz	10/25/2016	10/24/2017
5	Multi-device controller	MF	MF-7868	MF78680 8762	N/A	10/25/2016	10/24/2017
6	Amplifier	EM	EM-30180	060538	1GHz-18GH z	10/25/2016	10/24/2017
7	Amplifier	Schwarzbeck	BBV 9475	BBV 9475-663	1GHz-18GH z	06/05/2017	06/04/2018
8	Spectrum Analyzer	agilent	E4440B	US44300368	1GHz-26.5GH z	06/05/2017	06/04/2018
9	loop antenna	ARA	PLA-1030/B	1029	9k-30MHz	10/25/2016	10/24/2017
10	Radiated Cable 1#	FUJIKURA	5D-2W	01	30MHz-1GHz	10/25/2016	10/24/2017
11	Radiated Cable 2#	FUJIKURA	10D2W	02	1GHz -25GHz	10/25/2016	10/24/2017
12	SMA Antenna connector	Dosin	Dosin-SMA	N/A	N/A	10/25/2016	10/24/2017

Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list. The Cal.Interval was one year



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#### 3. ANTENNA REQUIREMENT

#### 3.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 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.

#### 3.2 EUT ANTENNA

The EUT antenna is spring Antenna Welding on the PCB with 0dBi gain. It comply with the standard requirement.

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#### 3.3 CONDUCTED EMISSION MEASUREMENT

#### 3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	Standard	
FREQUENCY (MINZ)	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
0.15 -0.5			66 - 56 *	56 - 46 *	CISPR
0.50 -5.0			56.00	46.00	CISPR
5.0 -30.0			60.00	50.00	CISPR

0.15 -0.5		66 - 56 *	56 - 46 *	LP002.
0.50 -5.0		56.00	46.00	LP002.
5.0 -30.0		60.00	50.00	LP002.

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



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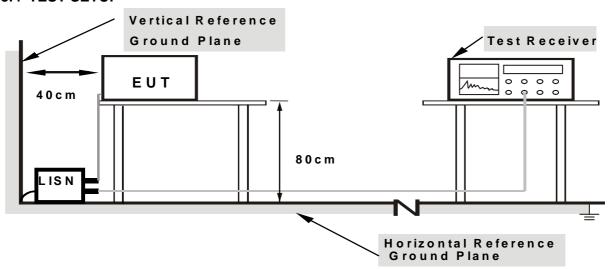
#### 3.3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

#### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

#### 3.3.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



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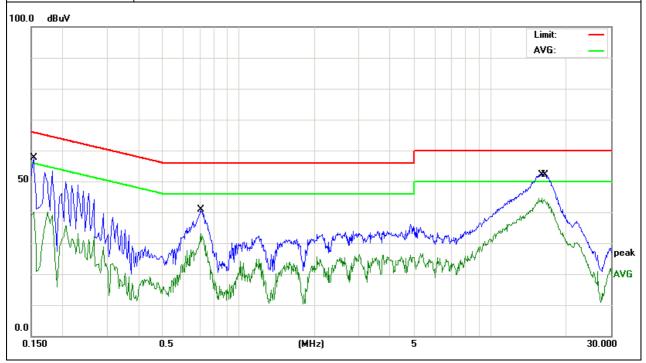
#### 3.2.5 TEST RESULT

DC 12V from adapter AC 120V/60Hz Phase: Test Voltage :

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1539	45.86	11.84	57.70	65.78	-8.08	QP	
2	0.1539	28.24	11.84	40.08	55.78	-15.70	AVG	
3	0.7060	30.77	9.98	40.75	56.00	-15.25	QP	
4	0.7060	23.14	9.98	33.12	46.00	-12.88	AVG	
5 *	15.8900	34.00	10.54	44.54	50.00	-5.46	AVG	
6	16.4500	41.62	10.62	52.24	60.00	-7.76	QP	

#### Remark:

- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
   N/A means All Data have pass Limit





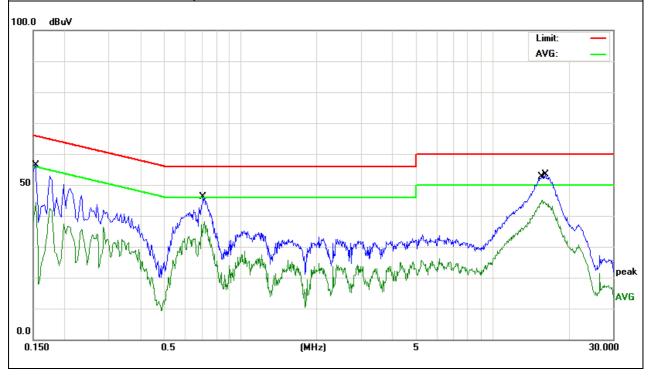
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Phase: N Test Voltage: DC 12V from adapter AC 120V/60Hz

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1539	44.60	11.84	56.44	65.78	-9.34	QP	
2	0.1539	32.66	11.84	44.50	55.78	-11.28	AVG	
3	0.7100	36.09	9.98	46.07	56.00	-9.93	QP	
4	0.7180	28.16	9.98	38.14	46.00	-7.86	AVG	
5 *	15.7420	34.49	10.52	45.01	50.00	-4.99	AVG	
6	16.1460	42.68	10.58	53.26	60.00	-6.74	QP	

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.
- 3. N/A means All Data have pass Limit





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#### 3.4 RADIATED EMISSION MEASUREMENT

#### **3.4.1 Radiated Emission Limits** (FCC 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

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.231)

Fundamental Frequency (MHz)	Field Strength of fundamental (microvolts/meter)	Field Strength of Unwanted Emissions (microvolts/meter)	
40.66 - 40.70	2250.00	225.00	
70 - 130	1250.00	125.00	
130 - 174	1,250 to 3,750 **	125 to 375 **	
174 - 260	3750.00	375.00	
260 - 470	3,750 to 12,500 **	375 to 1,250 **	
Above 470	12500.00	1250.00	

#### Notes:

#### (1) \*\* linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, uV/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.]

The limits on the field strength of the spurious emissions in the above table are based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in 93 Section 15.209, whichever limit permits a higher field strength.



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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 3.4.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8m(1.5m above 1G) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m(1.5m above 1G); the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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 Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note: Fro radiated meissiont test above 1GHz:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

#### 3.4.3 DEVIATION FROM TEST STANDARD

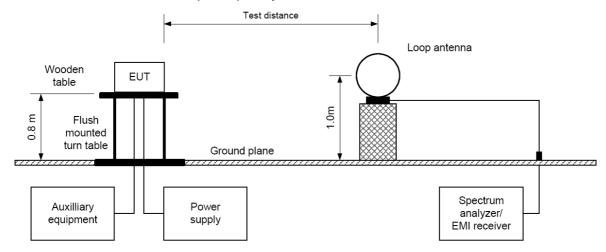
No deviation



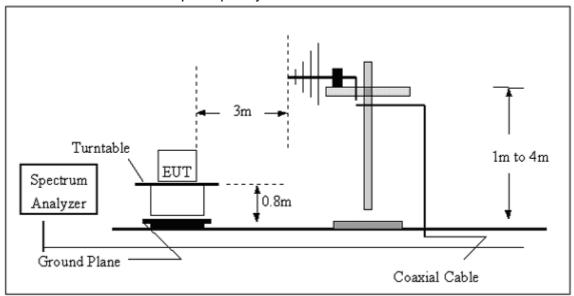
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#### 3.4.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz

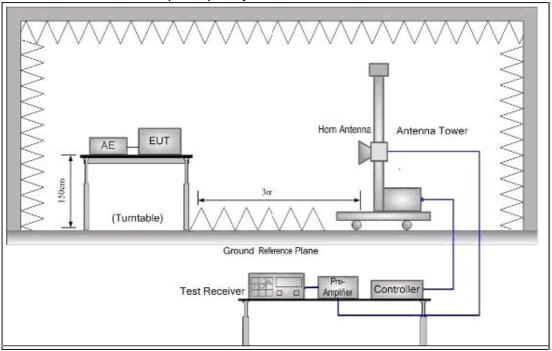


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(C) Radiated Emission Test-Up Frequency Above 1GHz





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#### 3.4.5 TEST RESULTS (BELOW 30MHz)

EUT:	Smart Video Door Phone	Model Name. :	TC-X4DB-A
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	HEST VOUANE .	DC 12V by adapter AC 120V/60Hz
Test Mode :	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

#### NOTE:

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

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



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### 3.4.6 TEST RESULTS (BETWEEN 30 - 5000 MHZ)

EUT:	Smart Video Door Phone	Model Name :	TC-X4DB-A
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HAST VAIIAAA .	DC 12V by adapter AC 120V/60Hz
Test Mode :	TX	Polarization:	Horizontal

Frequency	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dBuV/m (PK)	dBuV/m	dBuV/m	State
433.92	77.34	100.4	80.4	pass
867.84	52.67	80.4	60.4	pass
1301.76	50.75	80.4	60.4	pass
1735.68	45.79	74.00	54.00	pass
2169.60	41.09	74.00	54.00	pass
		74.00	54.00	pass

Note: test perform from 30 – 4000 MHz, no EMI Spurious detected above 2500MHz.

EUT:	Smart Video Door Phone	Model Name :	TC-X4DB-A
Temperature:	<b>20</b> ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest voltage .	DC 12V by adapter AC 120V/60Hz
Test Mode :	TX	Polarization:	Vertical

Frequency	Field Strength	Limit(PK)	Limit(AV)	State
MHz	dBuV/m (PK)	dBuV/m	dBuV/m	State
433.92	75.41	100.4	80.4	pass
867.84	55.28	80.4	60.4	pass
1301.76	51.09	80.4	60.4	pass
1735.68	46.67	74.00	54.00	pass
2169.60	43.36	74.00	54.00	pass
		74.00	54.00	pass



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Note: test perform from 30 – 4000 MHz, no EMI Spurious detected above 2500MHz.

#### NoTE:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector(if peak emi less then average limit, only record the peak emi data). Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.

- 3. FCC Limit for Average Measurement = 41.6667(Center frequency)-7083.3333
- 4. 1/PW =1/0.55ms=1.82<RBW(120KHz),PDCF is not needed



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#### 4. BANDWIDTH TEST

#### **4.1 TEST PROCEDURE**

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Limit: center frequency \*0.25%

#### 4.2 DEVIATION FROM STANDARD

No deviation.

#### 4.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

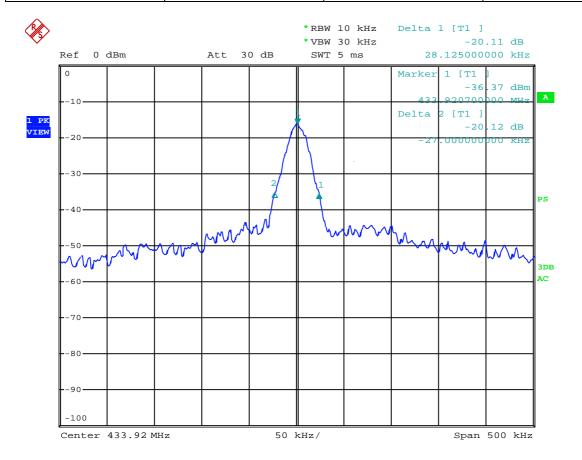


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#### **4.4 TEST RESULTS**

EUT:	Smart Video Door Phone	Model Name :	TC-X4DB-A
Temperature :	<b>26</b> ℃	Relative Humidity:	53%
Pressure :	1020 hPa	riesi Power .	DC 12V by adapter AC 120V/60Hz
Test Mode :	TX		

Test Channel	Frequency	20 dBc Bandwidth	Limit
	(MHz)	(kHz)	(kHz)
CH01	433.92	55.125	1085



Date: 12.Jun.2017 17:30:18



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#### **5. TRANSMITTER TIMEOUT**

#### **5.1 REQUIREMENTS**

1 A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

Result: The EUT has a manually activated transmitter, please refer to below detail data

2 A transmitter activated automatically shall cease transmission within 5 seconds after activation.

**Result:** The EUT does not have a automatically activated transmitter

3 Periodic transmissions at regular predetermined intervals are not permitted. However, polling or supervision transmissions, including data, to determine system integrity of transmitters used in security or safety applications are allowed if the total duration of transmissions does not exceed more than two seconds per hour for each transmitter. There is no limit on the number of individual transmissions, provided the total transmission time does not exceed two seconds per hour

**Result:** The EUT does not employ periodic transmission.

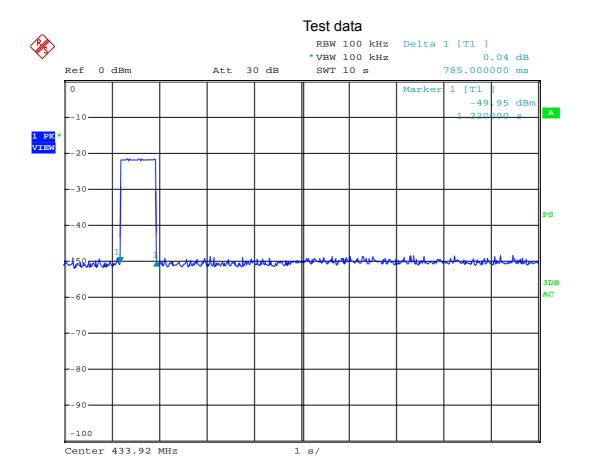
4 Intentional radiators which are employed for radio control purposes during emergencies involving fire, security, and safety of life, when activated to signal an alarm, may operate during the pendency of the alarm condition.

**Result:**The section is not applicable to EUT.

Note: The transmission time of signal will not be affected no matter how lon the button was pressed



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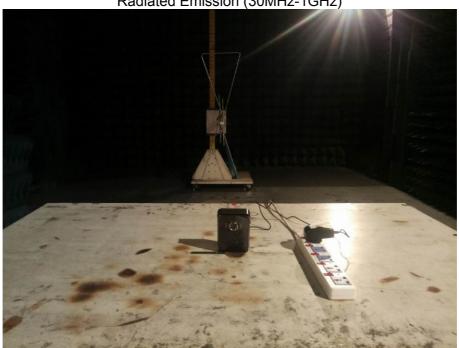
СН	THE DURATION OF EACH TRANSMISSION	LIMIT	RESULT
01	0.785	<b>&lt;</b> 5s	PASS



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#### **6. EUT TEST PHOTO**





Radiated Emission (above 1GHz)





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Conducted Emission (AC Mains)

