# TEST REPORT

FCC ID: 2AIOC-STICK Product: Z-WAVE STATIC CONTROLLER Model No.: HKZW-STICK Additional Model No.: N/A Trade Mark: N/A Report No.: TCT180313E002 Issued Date: Mar. 26, 2018

HANK ELECTRONICS CO., LTD.

Issued for:

Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China

Issued By:

Shenzhen Tongce Testing Lab. 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China TEL: +86-755-27673339

FAX: +86-755-27673332

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# 1. Test Certification

Product:	Z-WAVE STATIC CONTROLLER
Model No.:	HKZW-STICK
Additional Model No.:	N/A
Trade Mark:	N/A (C) (C)
Applicant:	HANK ELECTRONICS CO., LTD.
Address:	Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Manufacturer:	HANK ELECTRONICS CO., LTD.
Address:	Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China
Date of Test:	Mar. 14, 2018 – Mar. 23, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Mar. 23, 2018 Date: Tested By: Jin Wang mas **Reviewed By:** Mar. 26, 2018 Date: Beryl Zhao MSN Approved By: Date: Mar. 26, 2018 Tomsin Page 3 of 30



# 2. Test Result Summary

AC Power Li Emi	Requirement		CFR 47 Se		Result			
Emi	•		§15.20		PASS			
	ne Conducted		§15.20	07		PASS		
	trength of amental		§15.249	(a)	PASS			
Spurious	Emissions	§15.2	§2.105 249 (a) (d)	53 )/ §15.209	S	PASS	<b>C</b>	
Band	d Edge	§15	§2.105 5.249 (d)/			PASS		
20dB Occup	ied Bandwidth		§2.104 §15.215		PASS			
	em meets the require m does not meet the							
3. N/A: Test ca	ult judgment is decid	the test object.		rd.				



# 3. EUT Description

Product:	Z-WAVE STATIC CONTROLLER				
Model No.:	HKZW-STICK				
Additional Model No.:	N/A				
Trade Mark:	N/A				
Hardware Version:	V1.0				
Software Version:	/1.0				
<b>Operation Frequency:</b>	908.4MHz				
Number of Channel:	1				
Modulation Technology:	FSK				
Antenna Type:	PCB Antenna				
Antenna Gain:	0dBi				
Power Supply:	DC 5V				

# Operation Frequency Each of Channel

Frequency 908.4MHz

# 4. Genera Information

# 4.1. Test Environment and Mode

Operating Environment:							
Temperature:	25.0 °C						
Humidity:	54 % RH						
Atmospheric Pressure:	1010 mbar						
Test Mode:							

Engineering mode:	Keep the EUT in continuous transmitting by select channel

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

# 4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Notebook	XiaoXin CHAO5000	PF0WZYD9		Lenovo

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



# 5. Facilities and Accreditations

# 5.1.Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

# 5.2.Location

Shenzhen Tongce Testing Lab

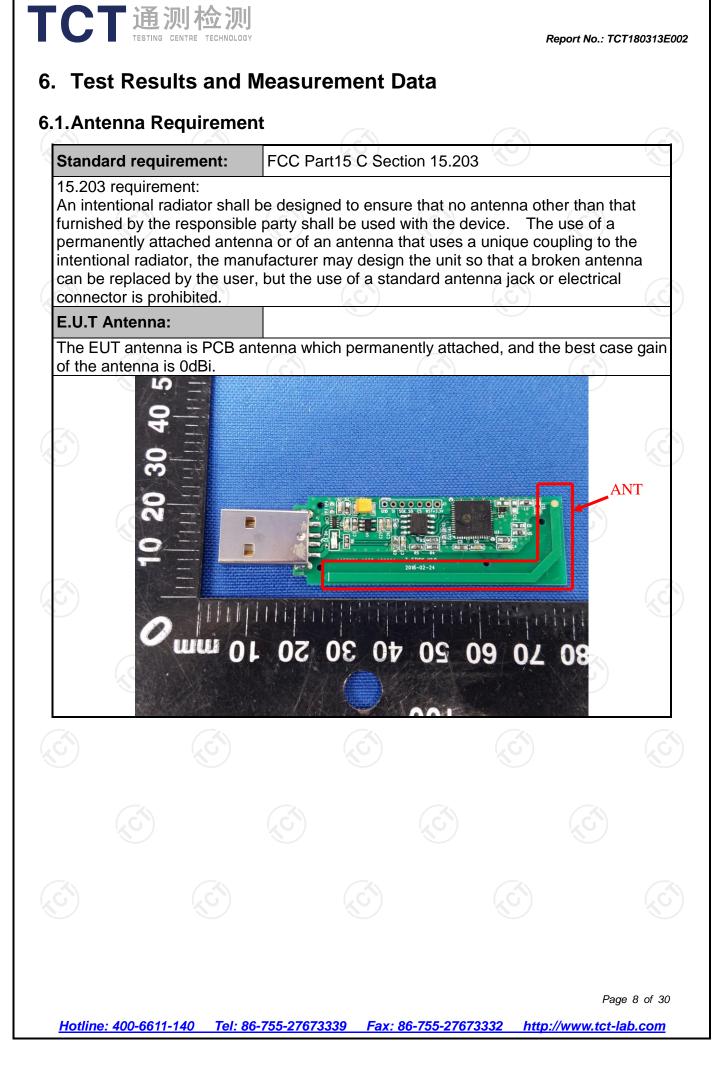
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

# 5.3. Measurement Uncertainty

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

No.	Item	MU
3	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%
	$(\mathcal{O})$ $(\mathcal{O})$ $(\mathcal{O})$	(xO)



# 6.2.Conducted Emission

### 6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.10:2013							
Frequency Range:	150 kHz to 30 MHz	<u>(</u> ()	(c)					
Receiver setup:	RBW=9 kHz, VBW=30	) kHz, Sweep time	e=auto					
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5	Limit ( Quasi-peak 66 to 56* 56	dBuV) Average 56 to 46* 46					
	5-30	60	50					
	Refere	ence Plane						
Test Setup:	AUX     40cm     80cm       Filter     AC power       Equipment     E.U.T       Fest table/Insulation plane         Remark:       E.U.T. Equipment Under Test       LISN: Line Impedence Stabilization Network       Test table height=0.8m							
Test Mode:	Transmitting mode with modulation							
	1. The E.U.T and sim power through a lin							
Test Procedure:	<ul> <li>(L.I.S.N.). This primpedance for the mission, the relative power through a L coupling impedance refer to the block photographs).</li> <li>Both sides of A.C conducted interfere emission, the relative the interface cable ANSI C63.10:2013</li> </ul>	ovides a 50ohm neasuring equipm ces are also conne ISN that provides with 50ohm term diagram of the . line are checked nce. In order to fin we positions of equips must be chang	a/50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and ed for maximum nd the maximum ipment and all of led according to					

### 6.2.2. Test Instruments

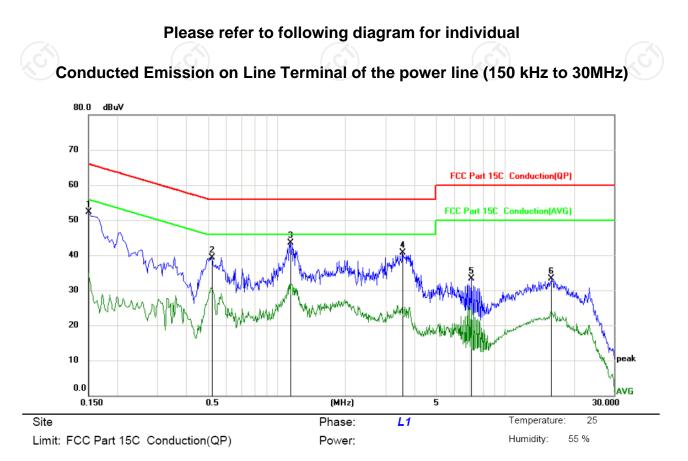
	Conducted Emission Shielding Room Test Site (843)										
Eq	uipment	Manufacturer	Model	Serial Number	Calibration Due						
Test	t Receiver	ceiver R&S		101401	Jun. 12, 2018						
	LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018						
	Coax cable (9KHz-30MHz) TCT		CE-05	N/A	Sep. 27, 2018						
EMI T	est Software	Shurple Technology	EZ-EMC	N/A	N/A						

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



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### 6.2.3. Test data



No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1500	40.74	11.50	52.24	66.00	-13.76	peak		
2		0.5190	28.04	11.30	39.34	56.00	-16.66	peak		
3	*	1.1445	32.17	11.28	43.45	56.00	-12.55	peak		
4		3.5475	29.62	11.14	40.76	56.00	-15.24	peak		
5		7.1025	22.29	10.95	33.24	60.00	-26.76	peak		
6		15.9225	21.87	11.51	33.38	60.00	-26.62	peak		

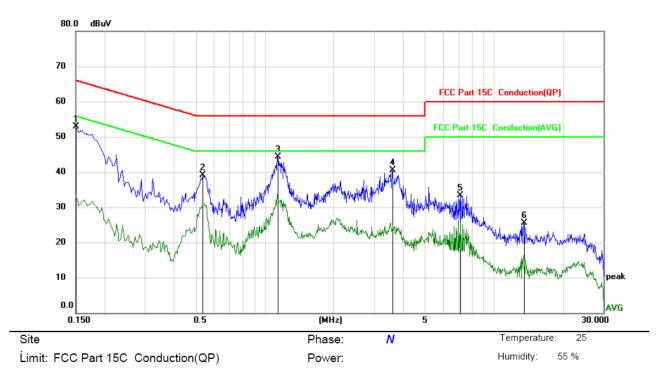
#### Note:

Freq. = Emission frequency in MHz Reading level  $(dB\mu V)$  = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)Limit  $(dB\mu V)$  = Limit stated in standard Margin (dB) = Measurement  $(dB\mu V)$  – Limits  $(dB\mu V)$ Q.P. =Quasi-Peak

AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

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#### Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

No. M	lk. Freq	Reading . Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.150	0 41.40	11.50	52.90	66.00	-13.10	peak		
2	0.537	0 27.89	11.29	39.18	56.00	-16.82	peak		
3 *	1.140	0 33.12	11.28	44.40	56.00	-11.60	peak		
4	3.588	0 29.43	11.13	40.56	56.00	-15.44	peak		
5	7.102	5 22.26	10.95	33.21	60.00	-26.79	peak		
6	13.515	0 13.98	11.57	25.55	60.00	-34.45	peak		

#### Note:

Freq. = Emission frequency in MHz

Reading level  $(dB\mu V) = Receiver reading$ 

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit  $(dB\mu V) = Limit$  stated in standard

Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

Q.P. =Quasi-Peak

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AVG =average

\* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

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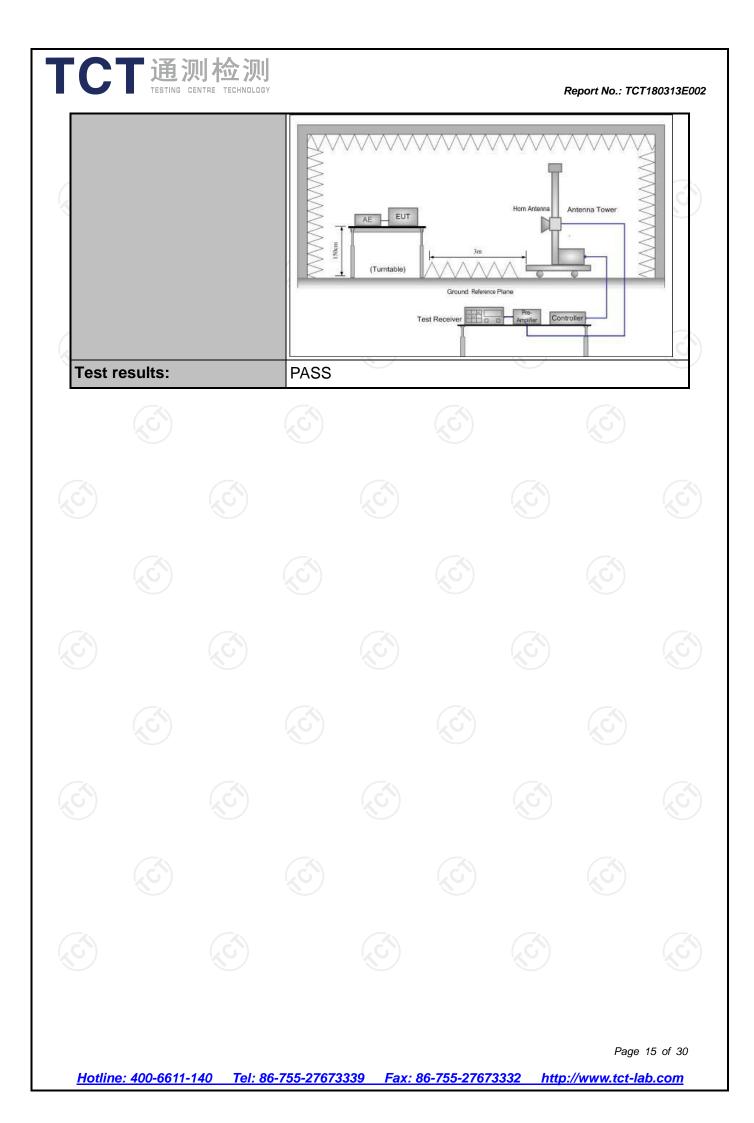
# 6.3. Radiated Emission Measurement

### 6.3.1. Test Specification

TCT 通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15	5 C Section	/15.209 n	Part 2 J	Section 2.1053		
Test Method:	ANSI C63.1	0:2013					
Frequency Range:	9 kHz to 25	GHz	3				
Measurement Distance:	3 m	3 m					
Antenna Polarization:	Horizontal &	& Vertical					
	Frequency	Detector	RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value		
•	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
	Above ronz	Peak	1MHz	10Hz	Average Value		
Limit(Field strength of the	Freque	ency	Limit (dBu	//m @3m)	Remark		
undamental signal):	902MHz-9	28MH7	94.	00	Average Value		
			114.00		Peak Value		
₋imit(Spurious Emissions):	Freque	ency	Limit (dBuV/m @3m)		Remark		
	0.009-0	).490	2400/F(KHz)		Quasi-peak Value		
	0.490-1	.705	24000/	F(KHz)	Quasi-peak Value		
	1.705		3		Quasi-peak Value		
	30MHz-8		40		Quasi-peak Value		
	001112-2		43		Quasi-peak Value		
	216MHz-9 960MHz		46.0 54.0		Quasi-peak Value Quasi-peak Value		
	90010112	10112	<u>54</u>		Average Value		
	Above '	1GHz	74.0		Peak Value		
Limit (band edge) :	bands, exce least 50 dB general rad	ept for har below the diated em	monics, s level of t ission lir	shall be a he funda nits in \$	cified frequency attenuated by at mental or to the Section 15.209,		
Test Procedure:	<ul> <li>whichever is the lesser attenuation.</li> <li>1. The EUT was placed on the top of a rotating table 0. meters above the ground at a 3 meter chamber i below 1GHz, 1.5m above the ground in abov 1GHz. The table was rotated 360 degrees t determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from th interference-receiving antenna, which was mounte on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximur value of the field strength. Both horizontal an vertical polarizations of the antenna are set to mak</li> </ul>						

	the measurement.
	<ol> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>
	For radiated emissions below 30MHz
	Distance = 3m Computer Pre -Amplifier EUT Turn table Receiver Ground Plane
	30MHz to 1GHz
Test setup:	Antenna Tower EUT Antenna HT Antenna Antenna RF T est Receiver Turm Table Ground Plane
	Above 1GHz (The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)



### 6.3.2. Test Instruments

	Radiated Emission Test Site (966)									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018						
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018						
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018						
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018						
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018						
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018						
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018						
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018						
Antenna Mast	Keleto	CC-A-4M	N/A	N/A						
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018						
Coax cable (9KHz-40GHz)	отст	RE-high-02	N/A	Sep. 27, 2018						
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018						
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018						
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A						

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

### 6.3.3. Test Data

#### Field Strength of Fundamental

F	Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
	908.4	77.6 (PK)	Н	114/94	-36.1
	908.4	74.3 (AV)	н	114/94	-19.7
	908.4	68.9 (PK)	V	114/94	-45.1
	908.4	65.8 (AV)	V	114/94	-28.2
$\langle \mathbf{C} \rangle$		G)	$(\mathcal{S})$		(c

### **Spurious Emissions**

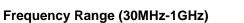
#### Frequency Range (9 kHz-30MHz)

Frequ	iency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
	-		
<b>(`</b> )	(, (, (, ))		(C) (C)
		<u> </u>	<u> </u>

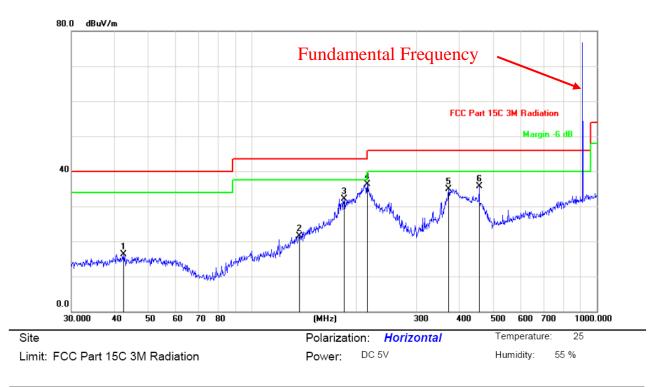
Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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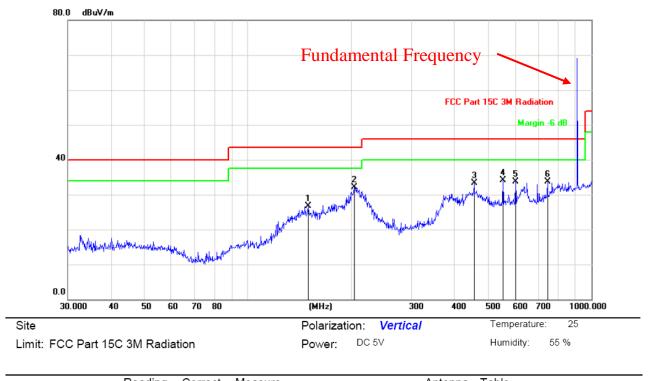
Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		42.4508	29.09	-12.79	16.30	40.00	-23.70	peak			
2		137.4202	37.38	-15.90	21.48	43.50	-22.02	peak			
3		185.1379	45.67	-13.65	32.02	43.50	-11.48	peak			
4	*	216.0240	48.46	-12.12	36.34	46.00	-9.66	peak			
5		372.0045	41.59	-6.60	34.99	46.00	-11.01	peak			
6		455.9058	39.91	-4.29	35.62	46.00	-10.38	peak			

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### Vertical:



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		150.0108	42.47	-15.81	26.66	43.50	-16.84	peak			
2	*	204.2377	44.63	-12.57	32.06	43.50	-11.44	peak			
3		455.9058	37.66	-4.29	33.37	46.00	-12.63	peak			
4		552.8832	35.92	-1.87	34.05	46.00	-11.95	peak			
5		601.4265	34.41	-0.75	33.66	46.00	-12.34	peak			
6		744.8661	32.77	0.84	33.61	46.00	-12.39	peak			

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	Channel: 908.4MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
1816.8	Н	41.73		-2.38	39.35		74.00	54.00	-14.65
2725.2	Н	38.15		0.57	38.72		74.00	54.00	-15.28
1816.8	V	39.73		-2.38	37.35		74.00	54.00	-16.65
2725.2	V	35.81		0.57	36.38		74.00	54.00	-17.62
			)			;			

#### Above 1GHz

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



#### **Band Edge Requirement**

Channel: 9	08.4MHz								
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
902	Н	41.25		5.65	46.90		74.00	54.00	-7.10
928	Н	36.42		5.74	42.16		74.00	54.00	-11.84
902	V	38.28	/	5.65	43.93		74.00	54.00	-10.07
928	V	33.61	(	5.74	39.35		74.00	54.00	-14.65
					•		•		

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak/Average)(dB $\mu$ V/m)-(Peak/Average) limit (dB $\mu$ V/m)
- The emission levels of other frequencies are very lower than the limit and not show in test report.
   Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





### 6.4.1. Test Specification

TCT通测检测 TESTING CENTRE TECHNOLOGY

Test Requirement:	FCC Part15 C Section 15 2.1049	5.215(c)/ Part 2 J Section
Test Method:	ANSI C63.10: 2013	
Limit:	N/A	
	position between the 2. Set to the maximum EUT transmit continue 3. Use the following s 20dB Bandwidth mea Span = approximate bandwidth, centered on a hoppin dB bandwidth; VBW≥RBW; Sweep peak; Trace = max ho	pectrum analyzer settings for surement. ely 2 to 3 times the 20 dB ng channel; RBW≥1% of the 20 = auto; Detector function =
Test setup:	Spectrum Analyzer	EUT
Test Mode:	Transmitting mode with r	nodulation
Test results:	PASS	

### 6.4.2. Test Instruments

RF Test Room							
0	Equipment	Manufacturer	Model	Serial Number	Calibration Due		
	Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018		

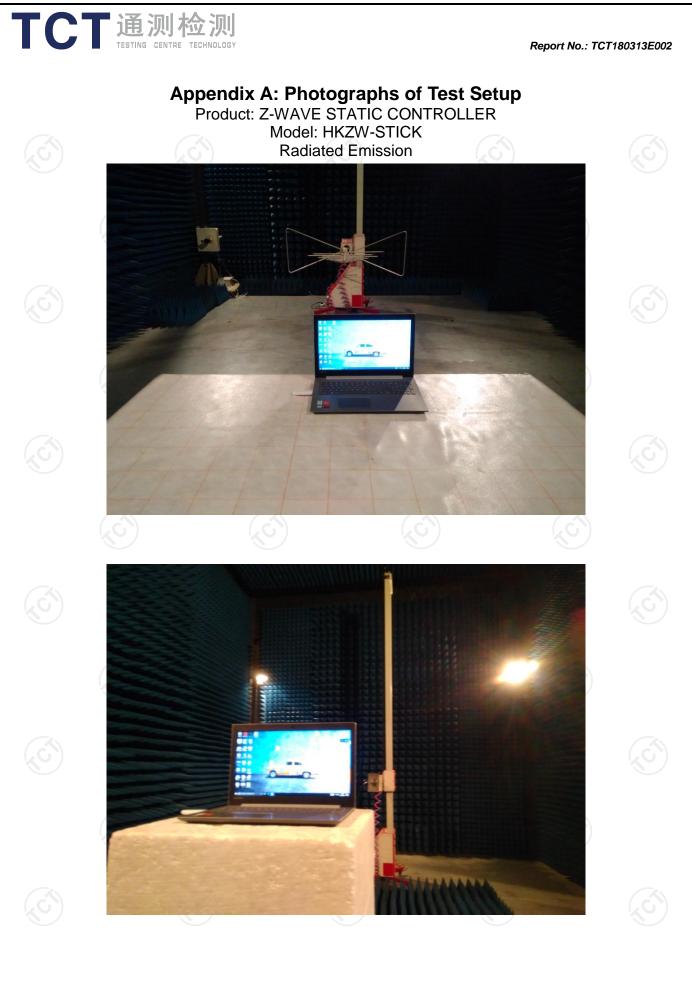
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



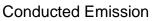
### 6.4.3. Test data

	Test Channel	20dB Occupy Bandwidth (kHz)		
5	908.4	68.11		PASS

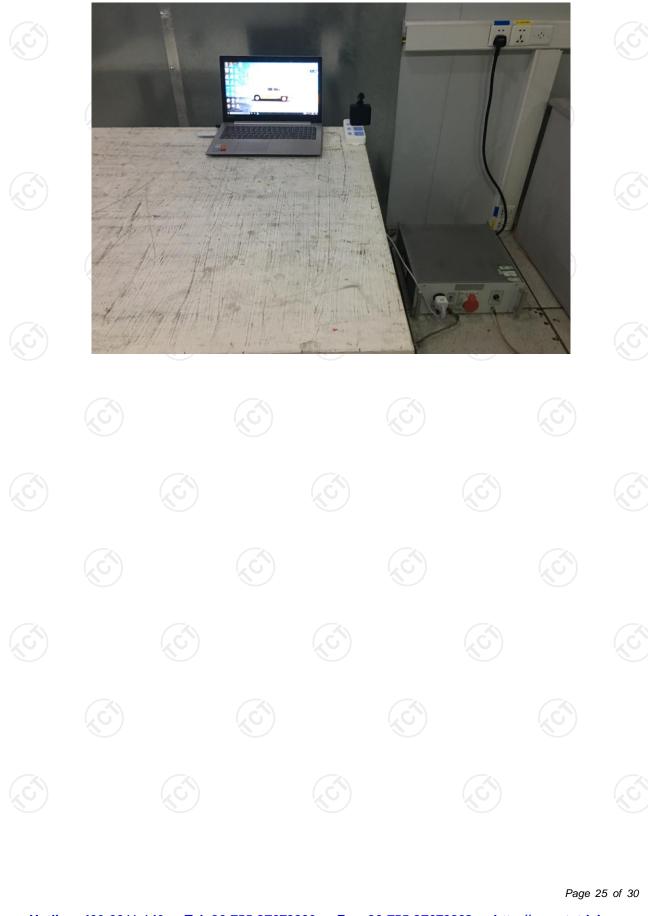
Test plo	ots as follows:					
				$\langle \mathcal{O} \rangle$		
	Agilent Spectrum Analyzer - 0 Vil RF 50 Center Freq 908.40	Ω AC DOODOO MIHz Cent Trig:	SENSE:INT er Freq: 908.400000 MHz Free Run Avg Hold n: 10 dB	ALIGN AUTO 04:12:59 PM Mar 22, 2018 Radio Std: None I:>10/10 Radio Device: BTS	Frequency	
	IO         Bef -20.00 dBm         Center Freq         Sol         Center Freq         Sol         Center Freq         Sol         Center Freq         Sol         Sol         Center Freq         Sol         Sol         Center Freq         Sol         Sol         Center Freq         Sol         Sol         Sol         Center Freq         Sol         Sol         Center Freq         Sol         Sol					
	Center 908.4 MHz #Res BW 1 kHz		#VBW 3 kHz	Span 200 kHz Sweep 246.8 ms	CF Step 20.000 kHz <u>Auto</u> Man	
	Occupied Ban	dwidth 72.859 kHz	Total Power	-37.8 dBm	Freq Offset	
	Transmit Freq E x dB Bandwidth	rror 16.510 kHz 68.11 kHz	OBW Power x dB	99.00 % -20.00 dB	0 Hz	
	MSG	6		STATUS		
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