

FCC Part 15C Test Report

FCC ID: 2AFNYKEY-WH08

Product Name:	Zone Control Unit
Trademark:	N/A
Model Name :	KEY-WH08
Prepared For :	Xiamen Keytop Comm.&Tech.Co.,Ltd
Address :	RM301,No.58, Guanri Road,Siming District, XiaMen, China
Prepared By:	Shenzhen BCTC Technology Co., Ltd.
Address :	No.101, Yousong Road, Longhua New District, Shenzhen, China
Test Date:	Sep. 23 - Sep. 30, 2015
Date of Report :	Sep. 30, 2015
Report No.:	BCTC-15080187



TEST RESULT CERTIFICATION

Report No.: BCTC-15080189

Applicant's name:	Xiamen Keytop Comm.&Tech.Co.,Ltd
Address:	RM301,No.58, Guanri Road,Siming District, XiaMen, China
Manufacture's Name:	Xiamen Keytop Comm.&Tech.Co.,Ltd

Address RM301,No.58, Guanri Road,Siming District, XiaMen, China

Product description

Product name...... Zone Control Unit

Model and/or type reference : KEY-WH08

Serial Model...... N/A

Standards..... FCC Part15.249

Test procedure...... ANSI C63.10-2013

This device described above has been tested by BCTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.249) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.249 (a)(2)	20dB Bandwidth	PASS		
15.249	Fundamental &Radiated Spurious Emission Measurement	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

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



1.1 TEST FACILITY

Shenzhen BCTC Technology Co., Ltd.

Add.: No.101, Yousong Road, Longhua New District, Shenzhen, China

FCC Registered No.: 187086

1.2 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 % \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%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Zone Control Unit		
Trade Name	N/A		
Model Name	KEY-WH08		
Serial Model	N/A		
Model Difference	N/A		
	The EUT is a Zone Cont	rol Unit	
	Operation Frequency:	915MHz	
	Modulation Type:	FSK	
	Number Of Channel	1CH	
Product Description	Antenna Designation:	Please see Note 2.	
	Antenna Gain (dBi)	1dbi	
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.		
Channel List	Please refer to the Note 2.		
Power	AC120-240V 60/50Hz 150mA		
Battery	N/A		
Connecting I/O Port(s)	Please refer to the User'	s Manual	

Note:

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

-- —

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	External Antenna	N/A	1	

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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.

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Pretest Mode	Description
Mode 1	TX Mode
Mode 2	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 2	Link Mode	

For Radiated Emission		
Final Test Mode	Description	
Mode 1	TX Mode	

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported, data rates is 256 kbps

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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E 4	C 1	
EUT	C-1	AC Mains

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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	Zone Control Unit	N/A	KEY-WH08	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1.2M	

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

Conduction Test equipment

	Kind of	Manufactu			Last	Calibrated	Calibratio
Item	Equipment	rer	Type No.	Serial No.	calibration	until	n period
1	Test Receiver	R&S	ESCI	1166.5950K 03-101165- ha	2015.06.05	2016.06.05	1 year
2	LISN	R&S	NSLK81 26	812646 6	2015.08.24	2016.08.23	1 year
3	LISN	R&S	NSLK81 26	812648 7	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.05	2016.06.05	1 year
5	RF cables	R&S	R204	R20X	2015.06.05	2016.06.05	1 year

Radiation Test equipment

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment				calibration	until	period
1	Spectrum Analyzer	Agilent	E4407B	MY4510957 2	2015.08.25	2016.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2015.08.25	2016.08.24	1 year
3	Bilog Antenna	SCHWARZB ECK	VULB9160	VULB9160- 3369	2015.08.25	2016.08.24	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	SCHWARZB ECK	9120D	9120D-1275	2015.08.25	2016.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	SCHWARZBE CK	BBV9718	9718-270	2015.08.25	2016.08.24	1 year
9	Amplifier	SCHWARZBE CK	BBV9743	9743-119	2015.08.25	2016.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
13	RF cables	R&S	N/A	N/A	2015.07.06	2016.07.05	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCT (IVITZ)	Quasi-peak	Average	Quasi-peak	Average	Staridard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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

3.1.2 TEST PROCEDURE

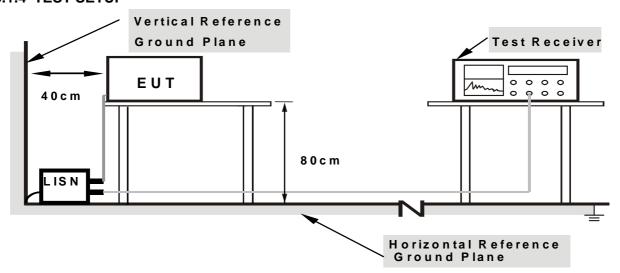
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation



3.1.4 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

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.



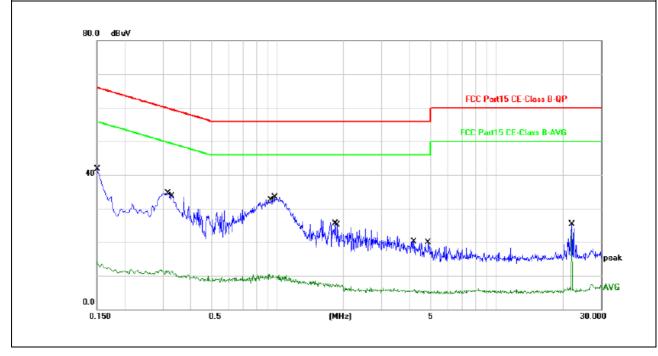
3.1.6 TEST RESULTS

EUT:	Zone Control Unit	Model Name. :	KEY-WH08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1500	31.56	10.05	41.61	65.99	-24.38	QP
0.1500	4.22	10.05	14.27	55.99	-41.72	AVG
0.3180	24.44	10.10	34.54	59.76	-25.22	QP
0.3300	1.48	10.10	11.58	49.45	-37.87	AVG
0.9220	0.29	10.16	10.45	46.00	-35.55	QP
0.9740	23.20	10.16	33.36	56.00	-22.64	AVG
1.8620	-2.69	10.18	7.49	46.00	-38.51	QP
1.8860	14.88	10.18	25.06	56.00	-30.94	AVG
4.2380	-4.34	10.16	5.82	46.00	-40.18	QP
4.8900	9.83	10.15	19.98	56.00	-36.02	AVG
22.1180	15.06	10.18	25.24	60.00	-34.76	QP
22.1180	12.79	10.18	22.97	50.00	-27.03	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





Shenzhen BCTC Technology Co., Ltd.

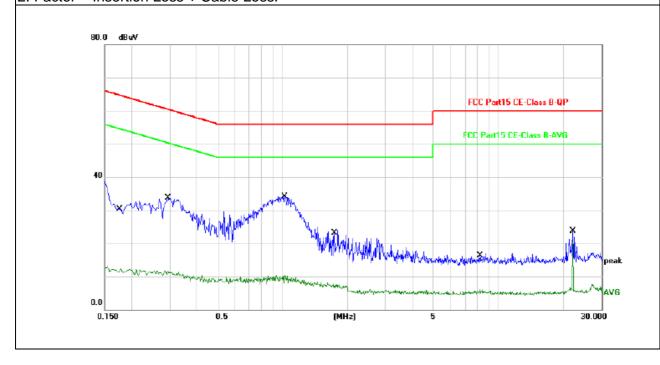
EUT:	Zone Control Unit	Model Name. :	KEY-WH08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC120V/60Hz	Test Mode:	Mode 1

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1780	22.79	10.06	32.85	64.57	-31.72	QP
0.1780	2.18	10.06	12.24	54.57	-42.33	AVG
0.2940	23.58	10.09	33.67	60.41	-26.74	QP
0.2940	1.58	10.09	11.67	50.41	-38.74	AVG
1.0220	24.01	10.17	34.18	56.00	-21.82	QP
1.0220	0.16	10.17	10.33	46.00	-35.67	AVG
1.7340	13.82	10.18	24.00	56.00	-32.00	QP
1.7340	-2.33	10.18	7.85	46.00	-38.15	AVG
8.2140	6.76	10.10	16.86	60.00	-43.14	QP
8.2140	-4.09	10.10	6.01	50.00	-43.99	AVG
22.1180	13.43	10.18	23.61	60.00	-36.39	QP
22.1180	10.32	10.18	20.50	50.00	-29.50	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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Web:Http//www.bctc-lab.com



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDECLIENCY (MH-)	Class A (dBu	ıV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK AVERAGE		PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

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

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



3.2.2 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 0.8 meters 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; 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:

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

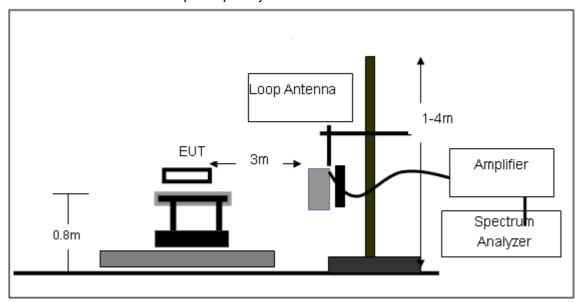
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

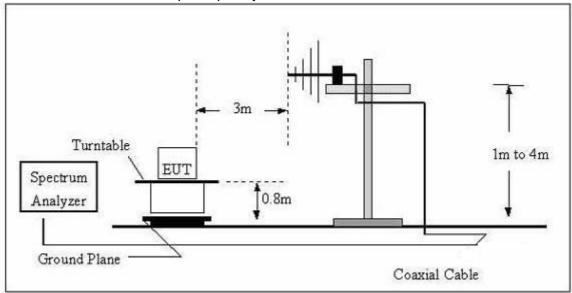


3.2.4 TEST SETUP

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

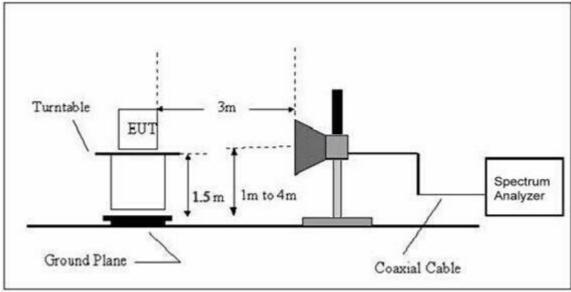


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	Zone Control Unit	Model Name. :	KEY-WH08
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	AC120V/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.



3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	Zone Control Unit	Model Name :	KEY-WH08
Temperature:	26℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Horizontal
Test Voltage :	AC120V/60Hz		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
53.2546	41.32	-8.02	33.30	40.00	-6.70	QP
74.9191	47.15	-16.28	30.87	40.00	-9.13	QP
121.9755	45.64	-14.60	31.04	43.50	-12.46	QP
164.9075	50.14	-13.16	36.98	43.50	-6.52	QP
263.8190	56.71	-13.76	42.95	46.00	-3.05	QP
462.3455	51.59	-8.80	42.79	46.00	-3.21	QP
915	104.24	-3.18	101.06	114	-12.94	PK
915	93.21	-3.18	90.03	94	-3.97	AV

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier. All interfaces was connected, and TX mode was link.

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EUT:	Zone Control Unit	Model Name :	KEY-WH08
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization:	Vertical
Test Voltage :	AC120V/60Hz		
Test Mode :	TX		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
35.8425	44.87	-8.27	36.60	40.00	-3.40	QP
50.6532	46.29	-10.27	36.02	40.00	-3.98	QP
114.9169	49.71	-15.19	34.52	43.50	-8.98	QP
197.8928	51.52	-16.07	35.45	43.50	-8.05	QP
263.8190	52.16	-13.76	38.40	46.00	-7.60	QP
396.2415	49.02	-10.27	38.75	46.00	-7.25	QP
915	103.96	-3.18	100.78	114	-13.22	PK
915	93.15	-3.18	89.97	94	-4.03	AV

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier. All interfaces was connected, and TX mode was link.



3.2.8 TEST RESULTS (1G-10GHZ)

Normal Voltage

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Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	1830	67.04	-3.57	63.47	74	-10.53	Pk
V	1830	53.72	-3.57	50.15	54	-3.85	AV
V	2745	66.51	-3.84	62.67	74	-11.33	Pk
V	2745	53.67	-3.84	49.83	54	-4.17	AV
V	3660	66.58	-4.59	61.99	74	-12.01	Pk
V	3660	53.81	-4.59	49.22	54	-4.78	AV
Н	1830	65.93	-3.62	62.31	74	-11.69	Pk
Н	1830	54.37	-3.62	50.75	54	-3.25	AV
Н	2745	66.15	-3.93	62.22	74	-11.78	Pk
Н	2745	53.56	-3.93	49.63	54	-4.37	AV
Н	3660	66.32	-3.57	62.75	74	-11.25	Pk
Н	3660	54.22	-3.57	50.65	54	-3.35	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level



4. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 1.5 meters 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 1.5 m; 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.
- g. For the radiated emission test above 1GHz:
 - 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. Note:

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



4.1 DEVIATION FROM STANDARD

No deviation.

4.2 TEST SETUP

4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 TEST RESULTS

EUT:	Zone Control Unit	Model Name :	KEY-WH08
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX Mode		

Frequency (MHz)	Antenna polarization (H/V)	Meter Reading (dBµV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Result
						Pass
902	Н	44.98	-3.19	41.79	46.00	Pass
902	V	44.74	-3.19	41.55	46.00	Pass
928	Н	44.65	-3.21	41.44	46.00	Pass
928	V	44.53	-3.21	41.32	46.00	Pass

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All interfaces was connected, and TX mode was link.

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

FCC Report

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C					
Section	Test Item	Frequency Range (MHz)	Result		
15.249	Bandwidth	902~928	PASS		

5.1.1 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) =300kHz
- 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.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

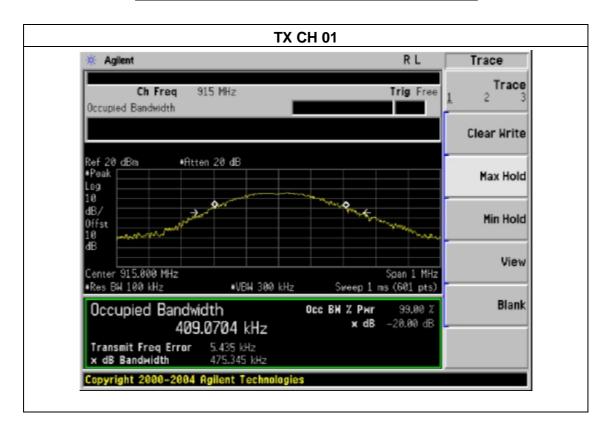
FCC Report Tel: 400-788-9558 0755-33019988



5.1.5 TEST RESULTS

EUT:	Zone Control Unit	Model Name :	KEY-WH08
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX Mode		

Channel	Frequency (MHz)	20dB bandwidth (MHz)
1	915	0.475





6. ANTENNA REQUIREMENT

6.1 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.

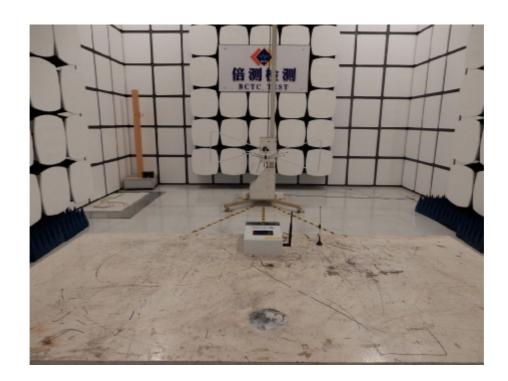
6.2 EUT ANTENNA

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



7. EUT TEST PHOTO

RΕ







CE





8. PHOTO OF THE EUT



