

FCC Test Report FCC ID: 2AJ7E-HGW501

Product: WiFi-Zigbee Gateway

Trade Mark: N/A

Model Number: HGW501

Serial Model: N/A

Report No.: NTEK-2016NT12280976F3

Prepared for

Shenzhen HOMA Technology Co.,Ltd.

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Prepared by

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Report No.: NTEK-2016NT12280976F3

TEST RESULT CERTIFICATION

4th Floor, A Buliding, Baoshi Technology Park, Baoshi Road,

Address:	Bao'an District, Shenzhen, Guangdong, China.			
Manufacturer's Name:	Shenzhen HOMA Technology Co.,Ltd.			
Address:	4th Floor, A Buliding, Baoshi Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China.			
Product description				
Product name:	WiFi-Zigbee Gateway			
Model and/or type reference :	HGW501			
Standards:	FCC Part15B:01 Oct.2016 ANSI C63.4:2014			
	s been tested by NTEK, and the test results show that the compliance with Part 15 of FCC Rules. And it is applicable only to be report.			
·	ced except in full, without the written approval of NTEK, this ised by NTEK, personnel only, and shall be noted in the revision of:			
Date (s) of performance of tests.	: 28 Nov. 2016 ~16 Jan. 2017			
Date of Issue	: 17 Jan. 2017			
Test Result	: Pass			
Testing Engine	eer : <u>Susan Su</u> (Susan Su)			
Technical Man	ager:(Jason Chen)			
Authorized Sig	(Sam Chen)			



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1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:2016 ANSI C63.4: 2014	Conducted Emission	Class B	PASS				
	Radiated Emission	Class B	PASS				

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

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 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi-Zigbee Gateway			
Trade Mark	N/A			
Model Name	HGW501			
Serial Model	N/A			
Model Difference	N/A			
	The EUT is a WiFi-Zigbe	ee Gateway.		
	Connecting I/O port:	USB, DC in		
	Operation Frequency:	Zigbee:2405~2480 MHz		
Braduat Description		WIFI:802.11b/g/n(20MHz): 2412~2462MHz		
Product Description	Modulation Type:	Zigbee: O-QPSK IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20): OFDM		
		(64QAM, 16QAM, QPŚK, BPSK)		
Power Source	DC Voltage: DC 5V from	Adapter.		
	Model:AEK6W-050100			
Adapter	Input:100-240V 50/60Hz	150mA Max		
	Output:5V,1A			
Battery	N/A			
HW Version	V2.2			
SW Version	V2.2			

2.1.1 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	Zigbee
Mode 2	WIFI

For Conducted Test			
Final Test Mode	Description		
Mode 1	Zigbee		
Mode 2	WIFI		

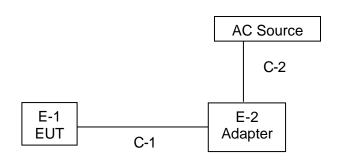
For Radiated Test			
Final Test Mode	Description		
Mode 1	Zigbee		
Mode 2	WIFI		

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.

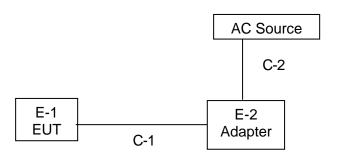


2.2 DESCRIPTION OF TEST SETUP

CE



RE



i



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
E-1	WiFi-Zigbee Gateway	N/A	HGW501	N/A	EUT
E-2	Adapter	N/A	AEK6W-050100	N/A	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	1.2m	
C-2	AC Cable	NO	NO	1.5m	

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.
- (3) "YES" means "shielded" "with core"; "NO" means "unshielded" "without core".



2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

Item		Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
1	Equipment			MV4510004	calibration	until	n period
<u> </u>	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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

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

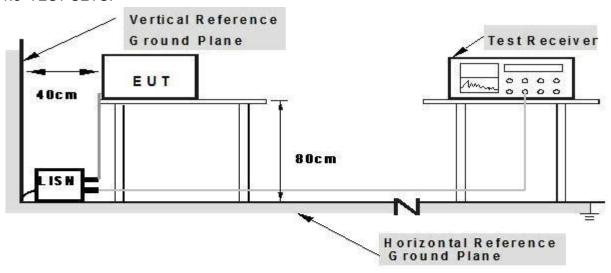
ite tenething take to the octaining of the receiver					
Receiver Parameters	Setting				
Attenuation	10 dB				
Start Frequency	0.15 MHz				
Stop Frequency	30 MHz				
IF Bandwidth	9 kHz				



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 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

3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

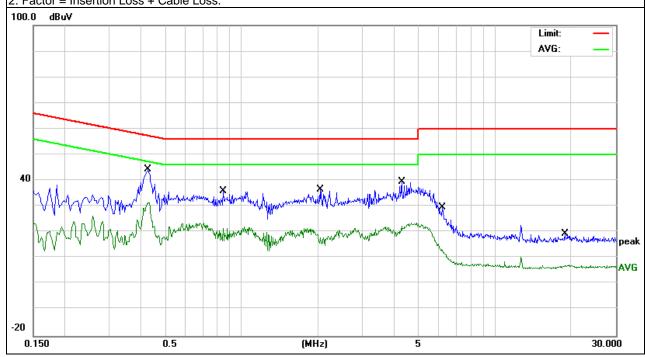


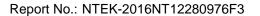
3.1.5 TEST RESULTS

EUT:	WiFi-Zigbee Gateway	Model Name. :	HGW501		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-12-28		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 5V from Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.426	34.33	9.91	44.24	57.33	-13.09	QP
0.43	21.64	9.91	31.55	47.25	-15.70	AVG
0.846	26.32	9.76	36.08	56.00	-19.92	QP
0.846	12.3	9.76	22.06	46.00	-23.94	AVG
2.038	26.81	9.75	36.56	56.00	-19.44	QP
2.038	11.89	9.75	21.64	46.00	-24.36	AVG
4.286	29.67	9.78	39.45	56.00	-16.55	QP
4.286	13.97	9.78	23.75	46.00	-22.25	AVG
6.202	19.84	9.82	29.66	60.00	-30.34	QP
6.202	12.45	9.82	22.27	50.00	-27.73	AVG
18.886	9.3	10.18	19.48	60.00	-40.52	QP
18.886	-2.63	10.18	7.55	50.00	-42.45	AVG

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



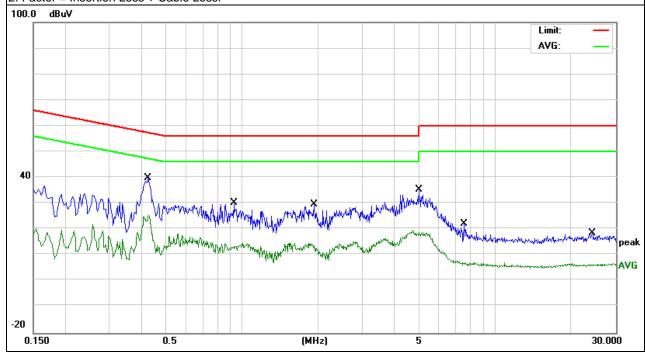




EUT:	WiFi-Zigbee Gateway	Model Name.:	HGW501		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-12-28		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 5V from Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.426	29.89	9.92	39.81	57.33	-17.52	QP
0.426	15.41	9.92	25.33	47.33	-22.00	AVG
0.93	20.47	9.76	30.23	56.00	-25.77	QP
0.93	7.12	9.76	16.88	46.00	-29.12	AVG
1.938	19.82	9.75	29.57	56.00	-26.43	QP
1.938	5.68	9.75	15.43	46.00	-30.57	AVG
5.022	25.55	9.81	35.36	60.00	-24.64	QP
5.022	9.91	9.81	19.72	50.00	-30.28	AVG
7.53	12.38	9.85	22.23	60.00	-37.77	QP
7.53	-1.88	9.85	7.97	50.00	-42.03	AVG
24.242	8.46	10.16	18.62	60.00	-41.38	QP
24.242	-3.21	10.16	6.95	50.00	-43.05	AVG

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

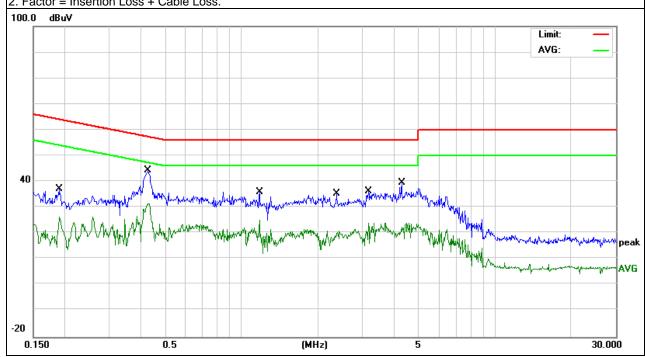




EUT:	WiFi-Zigbee Gateway	Model Name.:	HGW501			
Temperature:	26 ℃	Relative Humidity:	54%			
Pressure:	1010hPa	Test Date:	2016-12-28			
Test Mode:	Mode 1	Mode 1 Phase : L				
Test Voltage:	DC 5V from Adapter AC 240V/60Hz					

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.19	26.94	10.16	37.1	64.03	-26.93	QP
0.19	16.28	10.16	26.44	54.03	-27.59	AVG
0.4259	34.33	9.91	44.24	57.33	-13.09	QP
0.4259	21.64	9.91	31.55	47.33	-15.78	AVG
1.1775	26.24	9.76	36	56.00	-20.00	QP
1.1775	15.41	9.76	25.17	46.00	-20.83	AVG
2.3699	25.45	9.76	35.21	56.00	-20.79	QP
2.3699	8.93	9.76	18.69	46.00	-27.31	AVG
3.1699	26.63	9.77	36.4	56.00	-19.60	QP
3.1699	6.38	9.77	16.15	46.00	-29.85	AVG
4.2857	29.67	9.78	39.45	56.00	-16.55	QP
4.2857	10.95	9.78	20.73	46.00	-25.27	AVG

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

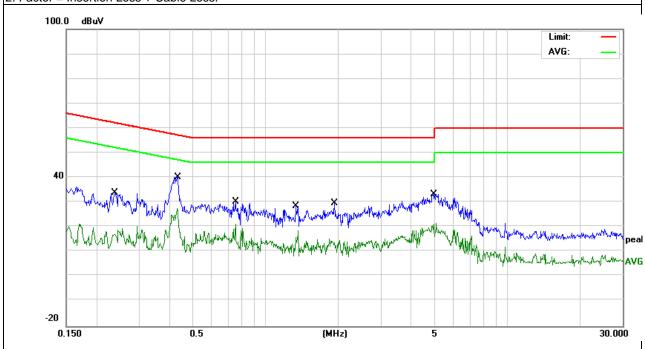




EUT:	WiFi-Zigbee Gateway	Model Name.:	HGW501		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2016-12-28		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	age: DC 5V from Adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2379	23.59	10.13	33.72	62.17	-28.45	QP
0.2379	6.78	10.13	16.91	52.17	-35.26	AVG
0.4304	30.39	9.91	40.3	57.24	-16.94	QP
0.4304	17.63	9.91	27.54	47.24	-19.70	AVG
0.7539	20.63	9.77	30.4	56.00	-25.60	QP
0.7539	5.61	9.77	15.38	46.00	-30.62	AVG
1.334	18.85	9.75	28.6	56.00	-27.40	QP
1.334	5.16	9.75	14.91	46.00	-31.09	AVG
1.9375	19.82	9.75	29.57	56.00	-26.43	QP
1.9375	3.97	9.75	13.72	46.00	-32.28	AVG
4.9537	23.39	9.81	33.2	56.00	-22.80	QP
4.9537	9.06	9.81	18.87	46.00	-27.13	AVG

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





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

	Class A (at 10m)	Class B (at 3m)	
FREQUENCY (MHz)	dBuV/m	dBuV/m	
30 ~ 88	39.0	40.0	
88 ~ 216	43.5	43.5	
216 ~ 960	46.5	46.0	
Above 960	49.5	54.0	

Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



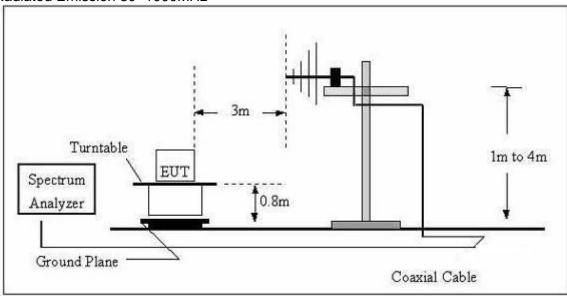
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

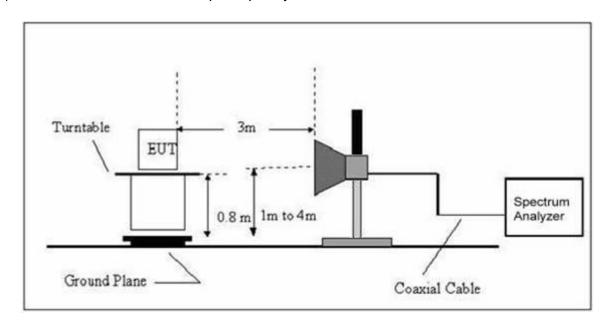
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Avg	1 MHz	10 Hz	

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz





3.2.4 TEST RESULTS

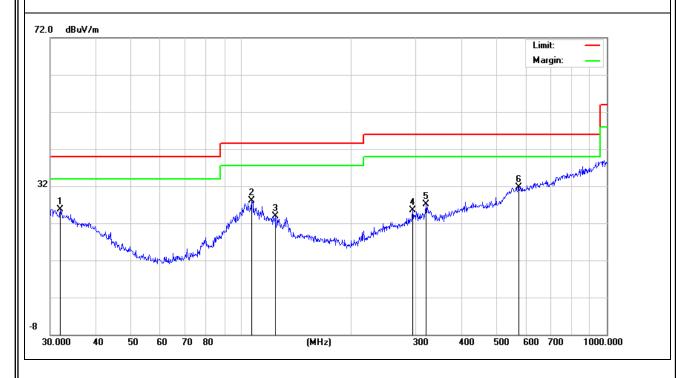
TEST RESULTS (30~1000 MHz)

EUT:	WiFi-Zigbee Gateway	Model Name:	HGW501		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-12-28		
Test Mode :	Mode 1 Polarization : Horizontal				
Test Power :	ower: DC 5V from Adapter AC 120V/60Hz				

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	remark
Н	31.9545	6.83	18.84	25.67	40	-14.33	QP
Н	106.7587	15.77	12.36	28.13	43.5	-15.37	QP
Н	123.6984	10.17	13.69	23.86	43.5	-19.64	QP
Н	294.1136	9.42	16.13	25.55	46	-20.45	QP
Н	319.937	10.27	16.89	27.16	46	-18.84	QP
Н	574.6258	7.02	24.72	31.74	46	-14.26	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



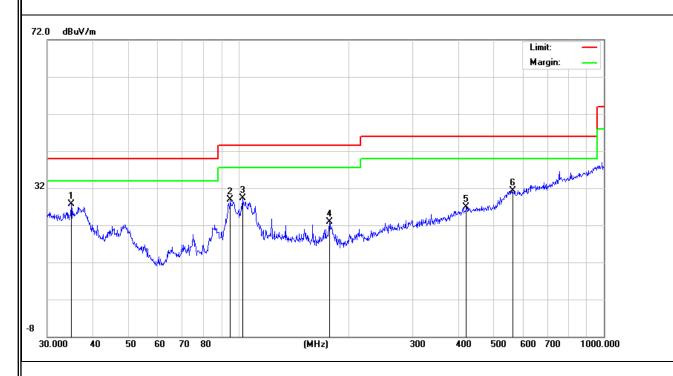


EUT:	WiFi-Zigbee Gateway	Model Name :	HGW501		
Temperature:	24 °C	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-12-12		
Test Mode:	Mode 1 Polarization : Vertical				
Test Power:	DC 5V from Adapter AC 120V/60Hz				

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rterriarit
V	34.8823	10.37	17.28	27.65	40	-12.35	QP
V	95.093	17.36	11.48	28.84	43.5	-14.66	QP
V	102.7192	17.26	12.07	29.33	43.5	-14.17	QP
V	177.5089	11.32	11.54	22.86	43.5	-20.64	QP
V	420.5803	6.48	20.5	26.98	46	-19.02	QP
V	562.6624	6.48	24.81	31.29	46	-14.71	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~25000MHz)

EUT:	WiFi-Zigbee Gateway	Model Name :	HGW501		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2016-12-28		
Test Mode:	Mode 1				
Test Power:	DC 5V from Adapter AC 120V/60Hz				

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequenc y	Readin g	Corre ct	Result	Limit	Over Limit	Remar k
	(MHz)	(dBuV/ m)	dB/m	(dBuV/ m)	(dBuV/ m)	(dB)	K
V	2406	46.02	-10	35.6	74	-38.4	Pk
V	2406	31.04	-10	20.62	54	-33.38	AV
V	4059.9	45.18	-4.4	40.74	74	-33.26	Pk
V	4059.9	30.29	-4.4	25.85	54	-28.15	AV
Н	4059.9	44.23	-4.4	39.79	74	-34.21	Pk
Н	4059.9	30.75	-4.4	26.31	54	-27.69	AV
Н	4392.9	43.17	-3.7	39.47	74	-34.53	Pk
Н	4392.9	31.24	-3.7	27.54	54	-26.46	AV

Remark:

Emission Level = Read Level+Antenna Factor + Cable Loss - Amplifier.

Margin= Emission Level-Limits

Note:

- 1. Measuring frequencies from 1 GHz to 13GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using

Peak detector mode of the emission shown in Actual FS column.

3. The frequency that above 3GHz is mainly from the environment noise



4. EUT TEST PHOTO



