FCC RADIO TEST REPORT FCC ID: 2ALMJEN-C0012W

Product: Central Controller

Trade Name: ENZD

Model Name: EN-C0012W

EN-C0012P, EN-C00182W,

Serial Model: EN-C0022W, EN-C1012W, EN-C2012W,

EN-C3012W, EN-C4012W, EN-C5012W,

EN-C6012W

Report No.: BZT-20170309214F

Prepared for

iTsEasy Electronics Co., Ltd.

Suite 1409 Digital Building, Huizhan East Road 16 , Torch Development Zone, Zhongshan, Guangdong, China

Prepared by

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VERIFICATION OF COMPLIANCE

Applicant's name: iTsEasy Electronics Co., Ltd.

Address : Suite 1409 Digital Building, Huizhan East Road 16 , Torch

Development Zone, Zhongshan, Guangdong, China

Manufacture's Name.....: iTsEasy Electronics Co., Ltd.

Address : Suite 1409 Digital Building, Huizhan East Road 16 , Torch

Development Zone, Zhongshan, Guangdong, China

Product description

Product name Central Controller

Trademark: ENZD

Test procedure FCC Part15.249

Standards ANSI C63.10: 2013

This device described above has been tested by BZT, 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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Test Result..... Pass

Date (s) of performance of tests 10 Mar. 2017 ~20 Mar. 2017

Date of Issue 20 Mar. 2017

Testing Engineer : (yan Chen

(Lynn Chen)

Report No.: BZT-20170309214F

Technical Manager :

(Carlen Liu)

Authorized Signatory:

(Tommy zhang)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249)							
Standard Section	lest Item linggment Ren						
15.207	Conducted Emission	N/A					
15.203	Antenna Requirement	Pass					
15.249	Radiated Spurious Emission	Pass					
15.205	Band Edge Emission	Pass					
15.249	Occupied Bandwidth	Pass					

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



1.1 TEST FACILITY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong, Baoan

District, Shenzhen, Guangdong, China

FCC Registration No.: 701733

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%



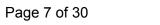
2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Central Controller			
Trade Name	ENZD			
Model Name	EN-C0012W			
Serial Model	EN-C0012P, EN-C00182W, EN-C0022W, EN-C1012W, EN-C2012W, EN-C3012W, EN-C4012W, EN-C5012W, EN-C6012W			
Model Difference	except the model name.			
Product Description	The EUT is a 2.4G wireless switch Operation Frequency: 2480MHz Modulation Type: GFSK Channel number 1 Antenna Designation: Integrated antenna Antenna Gain(Peak) 0.7dBi EIRP 80.4dbuv/m@3m(Peak) Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual			
Adapter	Model:HS36-1200500CH INPUT:100-240V~,50-60Hz OUTPUT:DC 12V,0.5A			
Battery	N/A			

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

	adole for the drawfullering						
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
1	N/A	N/A	Integrated antenna	NA	0.7	Antenna	

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Report No.: BZT-20170309214F

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	TX			

For Radiated Emission			
Final Test Mode	Description		
Mode 1	TX		

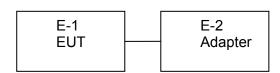
Note:

(1) The EUT use new battery.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

C1



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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.

Report No.: BZT-20170309214F

Item	Equipment	Mfr/Brand	Model/Type No. Series No.		Note
E-1	Central Controller	ENZD	EN-C0012W	N/A	EUT
E-2	Adapter	ENZD	HS36-1200500CH	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	N/A	N/A	0.6	

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 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Nadiai	ion rest equipmen	<u> </u>				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	EMI Test Receiver	R&S	ESU8	100316	2016/10/25	2017/10/24
2	Double Ridged Horn Antenna (0.8GHz-18GHz)	R&S	HF907	100276	2016/11/01	2017/10/31
3	Log-periodic Dipole Antenna (30MHz-1GHz)	R&S	HL223	100435	2016/11/01	2017/10/31
4	Biconical Antenna (9K-30MHz)	R&S	HK116	100431	2016/10/25	2017/10/24
5	Pre-amplifer	Schwarzbeck	VULB 9163	9163-462	2016/04/12	2017/04/11
6	Signal Conditioning Unit	R&S	SCU-08	10008	2016/10/25	2017/10/24
7	Rod Antenna (9K-30MHz)	R&S	HFH2-Z6	100386	2016/11/01	2017/10/31
8	Pre-amplifer	R&S	SCU-01	10049	2016/10/25	2017/10/24
9	Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	2016/11/01	2017/10/31
10	Spectrum Analyzer	Agilent	E4407B	MY45109572	2016/11/01	2017/10/31

Conduction Test equipment

Item	Kind of Equipment	Manufactur er	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESU8	100316	2016/10/25	2017/10/24
	Current Probe	R&S	EZ-17	100532	2016/10/25	2017/10/24
3	Two Line V-Network	R&S	ENV216	101109	2016/10/25	2017/10/24
4	Passive Voltage Probe	R&S	ESH2-Z3	100169	2016/10/25	2017/10/24
5	V-Network	R&S	ESH3-Z6	100694	2016/10/25	2017/10/24
6	V-Network	R&S	ESH3-Z6	100690	2016/10/25	2017/10/24
7	Artificial mains	R&S	ESH2-Z5	100309	2016/10/25	2017/10/24
8	Pulse Limiter	R&S	ESH3-Z2	101242	2016/10/25	2017/10/24



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.

Report No.: BZT-20170309214F

3.2 EUT ANTENNA

ntenna is a				



3.3 CONDUCTED EMISSION MEASUREMENT

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

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

0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	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

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



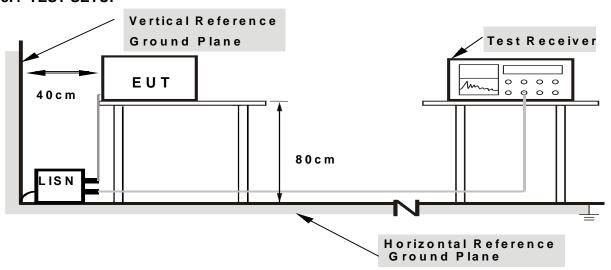
3.3.2 TEST PROCEDURE

- 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

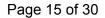
No deviation

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





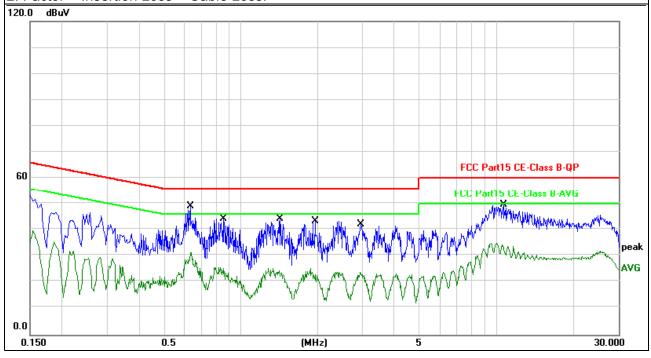
3.2.5 TEST RESULT

EUT:	Central Controller	Model Name. :	EN-C0012W
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC120V	Test Mode:	TX

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atau Tura
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.634	38.91	10.13	49.04	56	-6.96	QP
0.634	21.32	10.13	31.45	46	-14.55	AVG
0.854	34.19	10.15	44.34	56	-11.66	QP
0.854	15.29	10.15	25.44	46	-20.56	AVG
1.414	34.07	10.17	44.24	56	-11.76	QP
1.414	14.31	10.17	24.48	46	-21.52	AVG
1.954	33.29	10.18	43.47	56	-12.53	QP
1.954	12.67	10.18	22.85	46	-23.15	AVG
2.946	13.67	10.19	23.86	46	-22.14	AVG
2.9539	31.82	10.19	42.01	56	-13.99	QP
10.626	39.5	10.13	49.63	60	-10.37	QP

Remark:

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





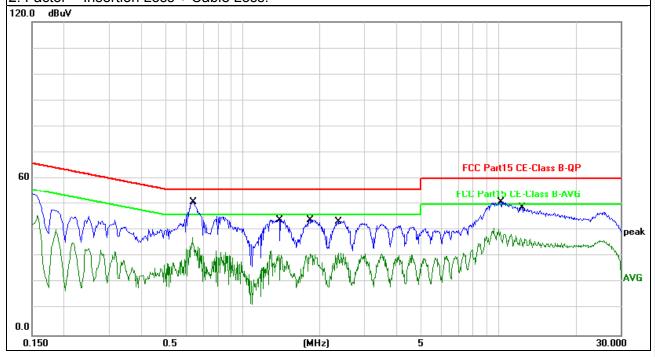
EUT: Model Name. : **Central Controller** EN-C0012W Temperature : 26 ℃ Relative Humidity: 54% Pressure: 1010hPa Phase: Ν Test Mode: Test Voltage : AC120V TX

Report No.: BZT-20170309214F

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.634	40.77	10.13	50.9	56	-5.1	QP
0.634	27.31	10.13	37.44	46	-8.56	AVG
1.386	34.13	10.17	44.3	56	-11.7	QP
1.386	20.69	10.17	30.86	46	-15.14	AVG
1.842	33.83	10.18	44.01	56	-11.99	QP
1.842	21.01	10.18	31.19	46	-14.81	AVG
2.366	33.44	10.18	43.62	56	-12.38	QP
2.366	21.26	10.18	31.44	46	-14.56	AVG
10.162	40.7	10.12	50.82	60	-9.18	QP
10.162	29.22	10.12	39.34	50	-10.66	AVG
12.226	38.04	10.13	48.17	60	-11.83	QP
12.226	26.84	10.13	36.97	50	-13.03	AVG

Remark:

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





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 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
2400 - 2483.5	50	500

Notes:

(1) 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.

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 0.8 meters above the ground at a 3m 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.
- 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.

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

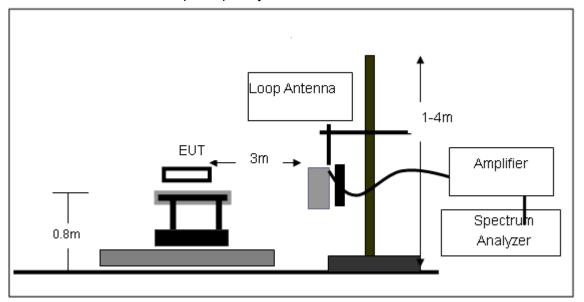
3.4.3 DEVIATION FROM TEST STANDARD

No deviation

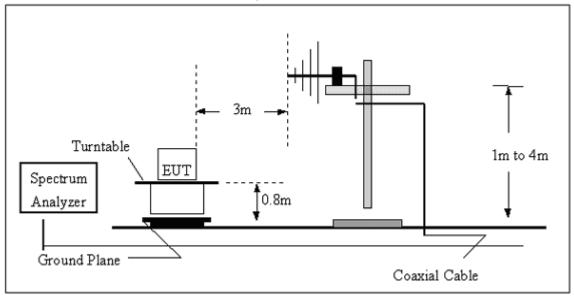


3.4.4 TEST SETUP

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

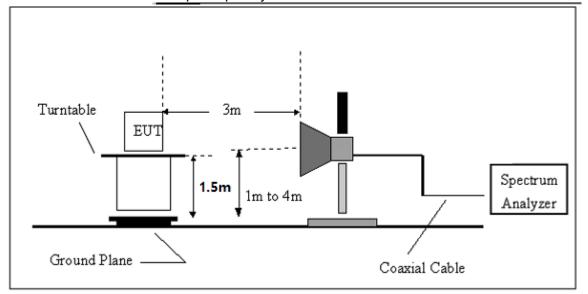


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



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3.4.5 TEST RESULTS (BLOW 30MHz)

EUT:	Central Controller	Model Name. :	EN-C0012W
Temperature :	20 ℃	Relative Humidtity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V
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.



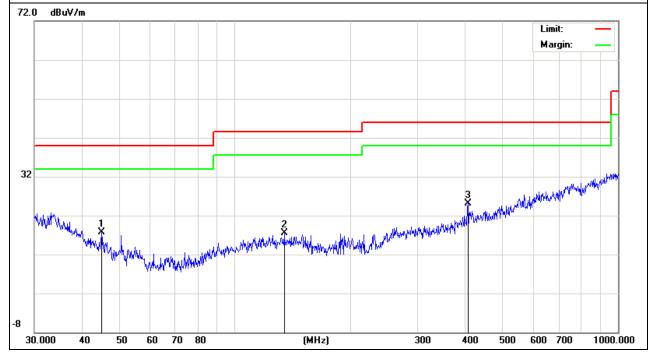
3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT:	Central Controller	Model Name :	EN-C0012W
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
44.9004	7.02	10.66	17.68	40	-22.32	QP
134.5592	5.45	11.98	17.43	43.5	-26.07	QP
406.088	7.72	17.48	25.2	46	-20.8	QP

Remark:

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



.



EUT: Central Controller Model Name: EN-C0012W

Temperature: 20 °C Relative Humidity: 48%

Pressure: 1010 hPa Test Voltage: AC 120V

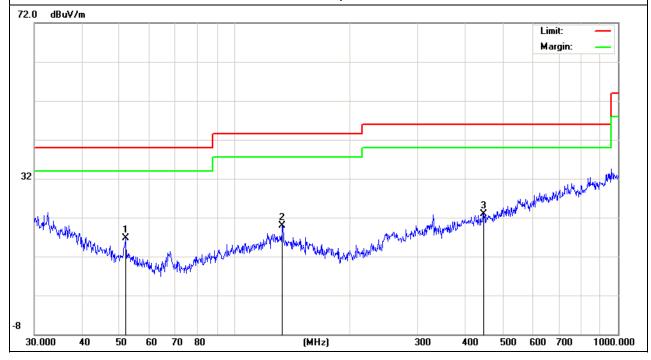
Test Mode: TX Polarization: Horizontal

Report No.: BZT-20170309214F

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
51.843	9.43	7.31	16.74	40	-23.26	QP
133.1511	7.94	11.96	19.9	43.5	-23.6	QP
446.4141	4.87	18.13	23	46	-23	QP

Remark:

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





3.4.7 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Central Controller	Model Name :	EN-C0012W
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TY /2/180MHz	Polarization :	Horizontal

Report No.: BZT-20170309214F

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	85.61	-12.79	72.82	114.0 0	-41.18	peak
4960	50.63	-3.59	47.04	74	-26.96	peak

EUT:	Central Controller	Model Name :	EN-C0012W
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX /2480MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	90.76	-12.79	77.97	114.0 0	-36.03	peak
4960	52.72	-3.59	49.13	74	-24.87	peak

Note:

- 1. The testing has been conformed to 25 GHz
- 2. If the PK measured value is less than AV limit already, the AV measurement is not required.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has not to be reported.



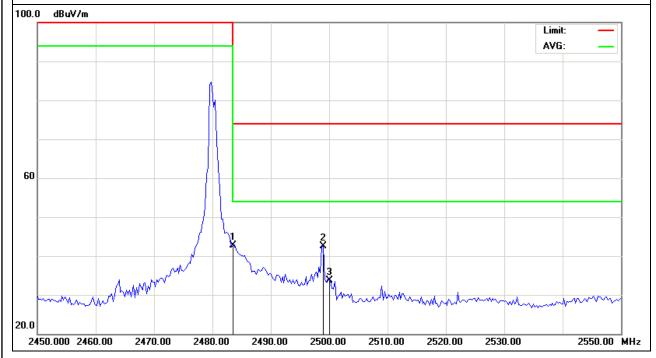
3.4.8 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	Central Controller	Model Name :	EN-C0012W
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX /2480MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	55.46	-12.78	42.68	74	-31.32	peak
2499	55.32	-12.72	42.6	74	-31.4	peak
2500	46.52	-12.72	33.8	74	-40.2	peak

Remark:

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





Temperature:

Test Mode :

Pressure:

EUT:

Model Name : EN-C0012W
Relative Humidity : 48%

AC 120V

Horizontal

Report No.: BZT-20170309214F

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	48.15	-12.78	35.37	74	-38.63	peak
2497	63.03	-12.73	50.3	74	-23.7	peak
2500	40.32	-12.72	27.6	74	-46.4	peak

Test Voltage :

Polarization:

Remark:

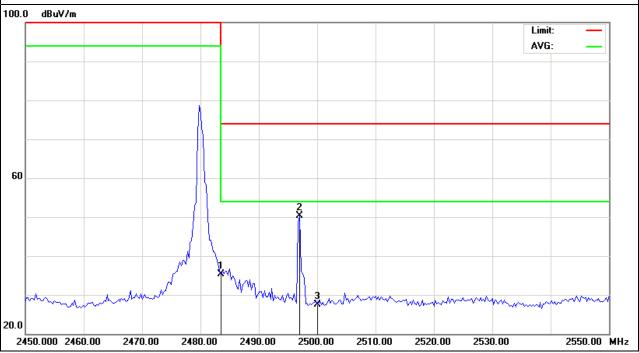
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2.4G wireless switch

20 ℃

1010 hPa

TX /2480MHz





4. BANDWIDTH TEST

4.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW≧RBW, Sweep time = Auto.

4.2 DEVIATION FROM STANDARD

No deviation.

4.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

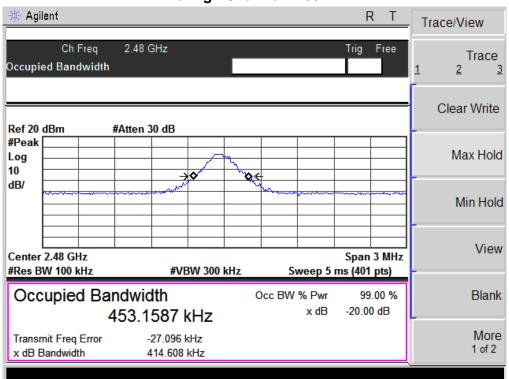


4.4 TEST RESULTS

EUT:	2.4G wireless switch	Model Name :	EN-C0012W
Temperature :	26 ℃	Relative Humidity:	53%
Pressure :	1020 hPa	Test Power :	AC 120V
Test Mode :	TX CH		

Frequency	20 dBc Bandwidth	99% Bandwidth
(MHz)	(MHz)	(MHz)
2480	0.415	0.453

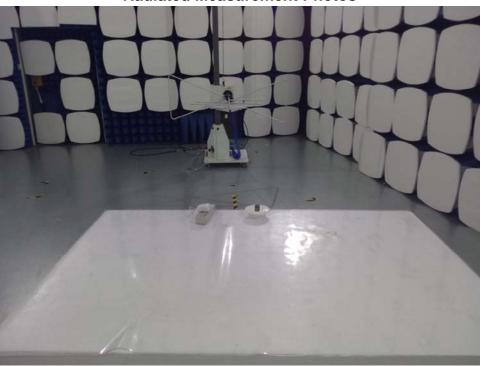
The High Channel:2480MHz

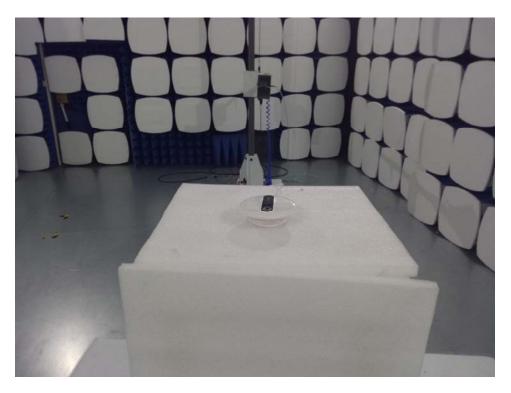




5. EUT TEST PHOTO







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