



RADIO TEST REPORT

Report No:STS1810138W01

Issued for

Hangzhou Eboylamp Electronics Co., Ltd.

No.568 Huabao street, Qianyuan Town, Deqing, huzhou, China

Product Name:	LED LAMP
Brand Name:	N/A
Model Name:	EBE-SHW06
Series Model:	2AJ3WEBESHW06
FCC ID:	2AJ3WEBESHW06
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name: Hangzhou Eboylamp Electronics Co., Ltd. Address: No.568 Huabao street, Qianyuan Town, Deging, huzhou, China Manufacture's Name Hangzhou Eboylamp Electronics Co., Ltd. Address: No.568 Huabao street, Qianyuan Town, Deqing, huzhou, China **Product description** Product Name...... LED LAMP Brand Name: N/A Model Name: EBE-SHW06 Series Model...... 2AJ3WEBESHW06 Test Standards FCC Part15.247 Test procedure ANSI C63.10-2013 This device described above has been tested by STS, 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. This report shall not be reproduced except in full, without the written approval of STS, this document only be altered or revised by STS, personal only, and shall be noted in the revision of the document. Date of Test Date (s) of performance of tests 17 Oct. 2018 ~18 Oct. 2018 Date of Issue 23 Oct. 2018 Test Result....: **Pass**

Technical Manager :

(Chris chen)

(Chris chen)

(Sean She APPROVAL (Sean she)

Authorized Signatory :

(Vita Li)



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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	23 Oct. 2018	STS1810138W01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS		
15.247 (e)	Power Spectral Density	PASS		
15.205	Restricted Band Edge Emission	PASS		
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) all tests are according to ANSI C63.10-2013.



1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

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 % ,

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated (9KHz-30MHz)	±3.02dB
6	All emissions,radiated (30MHz-200MHz)	±3.80dB
7	All emissions,radiated (200MHz-1000MHz)	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	LED LAMP			
Trade Name	N/A			
Model Name	EBE-SHW06			
Series Model	2AJ3WEBESHW06	3		
Model Difference	only different in mo	del name		
Product Description	The EUT is a LED LAMP Operation Frequency: 802.11b/g/n 20: 2412~2462 MHz 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64 802.11n(OFDM):BPSK,QPSK,16-QAM,64 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5 Mbps Number Of Channel: Antenna Designation: Antenna Gain (dBi): Duty Cycle: >98%			
Channel List	Please refer to the Note 2.			
Adapter	Input: AC120V, 90mA, 60Hz, 8W			
Hardware version number	V1.0.2			
Software version number	V2.2.2			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

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



2

Operation Frequency of channel		
802.11b/g	/n(20MHz)	
Channel	Frequency	
01	2412	
02	2417	
03	2422	
04	2427	
05	2432	
06	2437	
07	2442	
08	2447	
09	2452	
10	2457	
11	2462	

3 Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

2.4GHz Test Frequency:

For 802.11b/g/n (HT20)			
Channel	Freq.(MHz)		
01	2412		
06	2437		
11	2462		

4

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	EBE-SHW06	PCB Antenna	N/A	2	WLAN Antenna

5 Power level setting:

. e.		
For 802.11b/g/n (HT20)		
Modulation Type	Power level	
802.11b	18(Default)	
802.11g	18(Default)	
802.11n20	18(Default)	



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V /60Hz is shown in the report

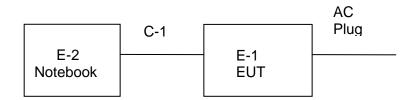
AC Conducted Emission

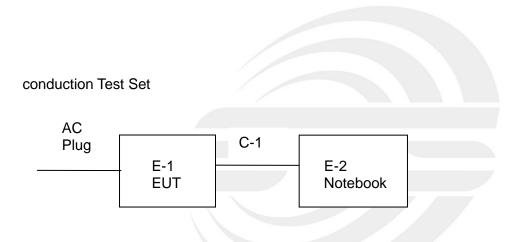
Test Case				
AC Conducted	Mode 10: Keeping WIELTY			
Mode10: Keeping WIFI TX Emission				



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set







2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

A 1	
NIACACCARV	accessories
INECESSALV	ALCESSUIES.
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Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Notebook	DELL	VOSTRO.3800	N/A	N/A
C-1	USB Cable	N/A	N/A	N/A	N/A

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" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 EQUIPMENTS LIST

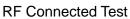
Radiation Test equipment

Radiation rest equipment							
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until		
EMI Test Receiver	R&S	ESPI	102086	2018.10.13	2019.10.12		
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01		
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2017.10.27	2020.10.26		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	N/A	2018.03.11	2021.03.10		
Temperature & Humitidy	HH660	Mieo	N/A	2018.10.13	2019.10.12		
Temperature & Humitidy	HH660	Mieo	N/A	2018.10.13	2019.10.12		
Pre-mplifier (0.1M-3GHz)	EM	EM330	N/A	2018.03.09	2019.03.08		
PreAmplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2018.10.13	2019.10.12		
Passive Loop (9K30MHz)	ZHINAN	ZN30900C	16035	2017.03.11	2020.03.10		
Low frequency cable	EM	R01	N/A	2018.03.11	2019.03.10		
Low frequency cable	EM	R06	N/A	2018.03.11	2019.03.10		
High frequency cable	SCHWARZBECK	R04	N/A	2018.03.11	2019.03.10		
High frequency cable	SCHWARZBECK	R02	N/A	2018.03.11	2019.03.10		
Semi-anechoic chamber	Changling	966	N/A	2015.11.15	2018.11.14		
trun table	EM	SC100_1	60531	N/A	N/A		
Antnna mast	EM	SC100	N/A	N/A	N/A		
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A		

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.13	2019.10.12
conduction Cable	EM	C01	N/A	2018.03.11	2019.03.10
Temperature & Humitidy	Mieo	HH660	N/A	2018.10.13	2019.10.12





Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2018.10.13	2019.10.12
Power Meter	Agilent	E4419B	QB43312265	2018.03.08	2019.03.07
Spectrum Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12





3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a) limit in the table below has to be followed.

EDECLIENCY (MU-)	Conducted Emission limit (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	

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

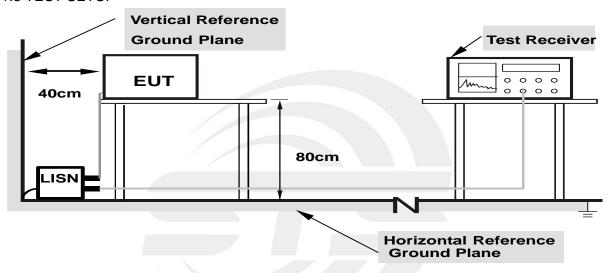
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical 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 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.



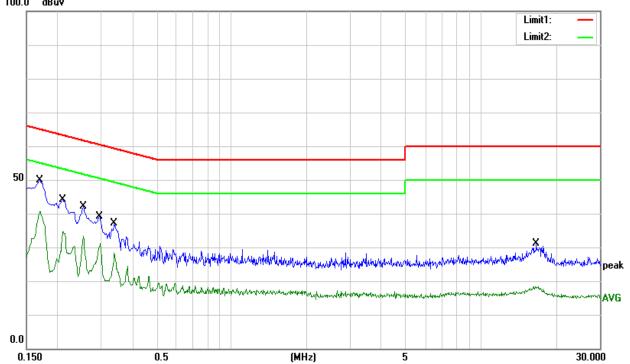
3.1.5 TEST RESULT

Temperature:	26.1 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 10		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1700	29.65	20.23	49.88	64.96	-15.08	QP
0.1700	20.43	20.23	40.66	54.96	-14.30	AVG
0.2100	23.87	20.23	44.10	63.21	-19.11	QP
0.2100	14.45	20.23	34.68	53.21	-18.53	AVG
0.2540	21.61	20.40	42.01	61.63	-19.62	QP
0.2540	12.95	20.40	33.35	51.63	-18.28	AVG
0.2940	18.55	20.59	39.14	60.41	-21.27	QP
0.2940	10.57	20.59	31.16	50.41	-19.25	AVG
0.3380	16.58	20.60	37.18	59.25	-22.07	QP
0.3380	7.67	20.60	28.27	49.25	-20.98	AVG
16.7300	11.23	19.92	31.15	60.00	-28.85	QP
16.7300	-1.46	19.92	18.46	50.00	-31.54	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)—Limit





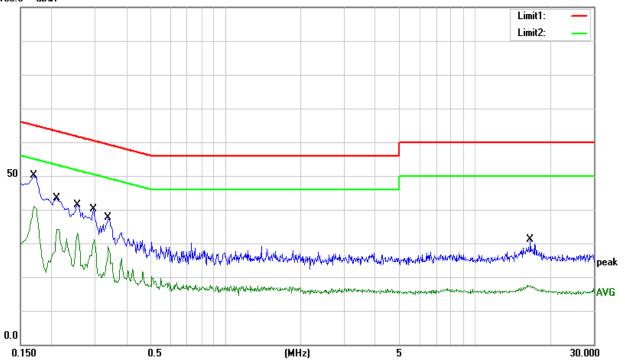
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Temperature:	26.1 ℃	Relative Humidity:	60%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 10		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1700	29.79	20.23	50.02	64.96	-14.94	QP
0.1700	20.76	20.23	40.99	54.96	-13.97	AVG
0.2100	23.19	20.23	43.42	63.21	-19.79	QP
0.2100	13.94	20.23	34.17	53.21	-19.04	AVG
0.2540	20.95	20.42	41.37	61.63	-20.26	QP
0.2540	12.80	20.42	33.22	51.63	-18.41	AVG
0.2940	19.41	20.61	40.02	60.41	-20.39	QP
0.2940	10.53	20.61	31.14	50.41	-19.27	AVG
0.3380	16.87	20.68	37.55	59.25	-21.70	QP
0.3380	8.50	20.68	29.18	49.25	-20.07	AVG
16.6900	11.15	19.94	31.09	60.00	-28.91	QP
16.6900	-2.35	19.94	17.59	50.00	-32.41	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit 100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Enviro di Totali (128	EINITO OT TOTAL ENGOSOTE METOS (C. COCCINITZ TOCOMITZ)						
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 (1000MHz-25GHz)

EDECLIENCY (MH-)	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK	AVERAGE	
Above 1000	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).

For Radiated Emission

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	4 MILI- /2MILI-	
band)	1 MHz /3MHz	

For Band edge

= = = = = = = = = = = = = = = = = = =				
Spectrum Parameter	Setting			
Detector	Peak/AV			
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2412 MHz			
Start/Stop Frequency	Upper Band Edge: 2462 to 2500 MHz			
RB / VB (emission in restricted band)	1 MHz /3MHz			





Receiver Parameter	Setting		
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP		
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV		
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP		
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP		

3.2.2 TEST PROCEDURE

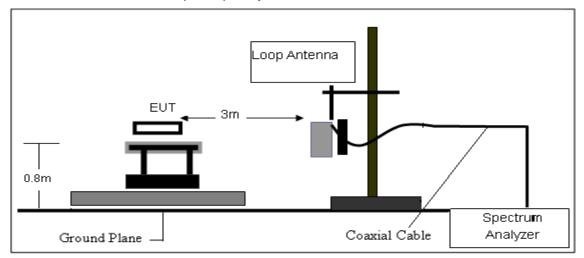
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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 test to three orthogonal axis. The worst case emissions were reported

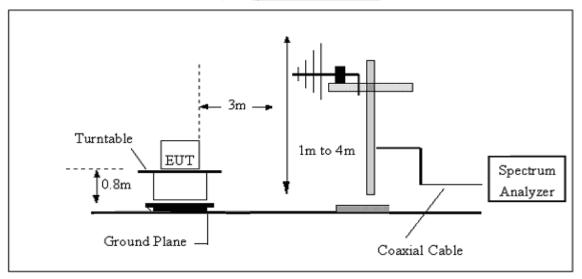


3.2.3 TEST SETUP

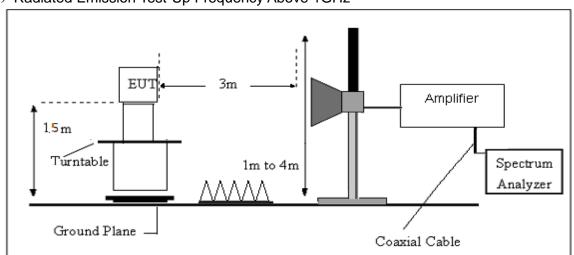
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 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.



3.2.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG





3.2.6 TEST RESULT

9KHz-30MHz

Temperature:	24.3 ℃	Relative Humidtity:	40%
Test Voltage:	AC120V/60Hz	Polarization:	
Test Mode:	TX Mode		

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



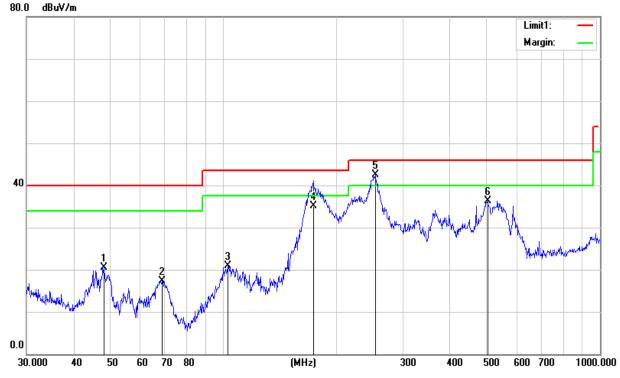
(30MHz - 1000MHz)

Temperature:	24.3 ℃	Relative Humidtity:	40%			
Test Voltage:	AC120V/60Hz	Polarization:	Horizontal			
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 6 worst mode)					

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
48.1626	41.06	-20.53	20.53	40.00	-19.47	QP
68.8721	41.39	-24.13	17.26	40.00	-22.74	QP
102.7192	39.89	-18.96	20.93	43.50	-22.57	QP
173.1251	54.44	-19.36	35.08	43.50	-8.42	QP
252.9482	58.46	-15.95	42.51	46.00	-3.49	QP
502.9395	45.13	-8.89	36.24	46.00	-9.76	QP

Remark:

^{1.} Margin = Result (Result = Reading + Factor)—Limit





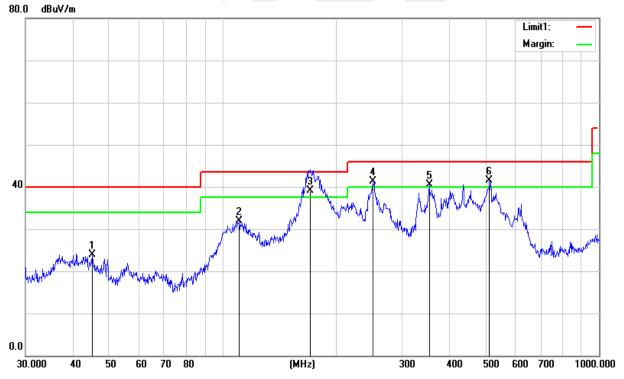
Page 25 of 58 Report No.: STS1810138W01

Temperature:	24.3 ℃	Relative Humidtity:	40%		
Test Voltage:	AC120V/60Hz	Polarization:	Vertical		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9 (Mode 6 worst mode)				

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
45.2166	42.83	-19.01	23.82	40.00	-16.18	QP
110.9571	50.13	-18.28	31.85	43.50	-11.65	QP
170.9326	58.50	-19.34	39.16	43.50	-4.34	QP
251.1804	57.40	-16.18	41.22	46.00	-4.78	QP
354.1831	53.89	-13.40	40.49	46.00	-5.51	QP
511.8352	50.35	-8.88	41.47	46.00	-4.53	QP

Remark:.

1. Margin = Result (Result = Reading + Factor)–Limit





(1000MHz-25GHz) Restricted band and Spurious emission Requirements

802.11b Low Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Low Channel (2412 MHz)									
3264.83	61.43	44.70	6.70	28.20	-9.80	51.63	74.00	-22.37	PK	Vertical
3264.83	49.94	44.70	6.70	28.20	-9.80	40.14	54.00	-13.86	AV	Vertical
3264.73	61.24	44.70	6.70	28.20	-9.80	51.44	74.00	-22.56	PK	Horizontal
3264.73	50.57	44.70	6.70	28.20	-9.80	40.77	54.00	-13.23	AV	Horizontal
4824.54	59.16	44.20	9.04	31.60	-3.56	55.60	74.00	-18.40	PK	Vertical
4824.54	49.37	44.20	9.04	31.60	-3.56	45.81	54.00	-8.19	AV	Vertical
4824.37	58.24	44.20	9.04	31.60	-3.56	54.68	74.00	-19.32	PK	Horizontal
4824.37	49.40	44.20	9.04	31.60	-3.56	45.84	54.00	-8.16	AV	Horizontal
5359.72	49.21	44.20	9.86	32.00	-2.34	46.87	74.00	-27.13	PK	Vertical
5359.72	40.02	44.20	9.86	32.00	-2.34	37.68	54.00	-16.32	AV	Vertical
5359.68	48.16	44.20	9.86	32.00	-2.34	45.82	74.00	-28.18	PK	Horizontal
5359.68	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Horizontal
7235.75	53.63	43.50	11.40	35.50	3.40	57.03	74.00	-16.97	PK	Vertical
7235.75	44.80	43.50	11.40	35.50	3.40	48.20	54.00	-5.80	AV	Vertical
7235.95	54.23	43.50	11.40	35.50	3.40	57.63	74.00	-16.37	PK	Horizontal
7235.95	44.35	43.50	11.40	35.50	3.40	47.75	54.00	-6.25	AV	Horizontal





802.11b Mid Channel

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	Mid Channel (2437 MHz)									
3264.89	62.15	44.70	6.70	28.20	-9.80	52.35	74.00	-21.65	PK	Vertical
3264.89	51.47	44.70	6.70	28.20	-9.80	41.67	54.00	-12.33	AV	Vertical
3264.64	60.97	44.70	6.70	28.20	-9.80	51.17	74.00	-22.83	PK	Horizontal
3264.64	50.07	44.70	6.70	28.20	-9.80	40.27	54.00	-13.73	AV	Horizontal
4874.53	59.08	44.20	9.04	31.60	-3.56	55.52	74.00	-18.48	PK	Vertical
4874.53	50.00	44.20	9.04	31.60	-3.56	46.44	54.00	-7.56	AV	Vertical
4874.57	58.18	44.20	9.04	31.60	-3.56	54.62	74.00	-19.38	PK	Horizontal
4874.57	49.63	44.20	9.04	31.60	-3.56	46.07	54.00	-7.93	AV	Horizontal
5359.65	48.43	44.20	9.86	32.00	-2.34	46.09	74.00	-27.91	PK	Vertical
5359.65	39.28	44.20	9.86	32.00	-2.34	36.94	54.00	-17.06	AV	Vertical
5359.73	48.33	44.20	9.86	32.00	-2.34	45.99	74.00	-28.01	PK	Horizontal
5359.73	38.32	44.20	9.86	32.00	-2.34	35.98	54.00	-18.02	AV	Horizontal
7310.86	54.79	43.50	11.40	35.50	3.40	58.19	74.00	-15.81	PK	Vertical
7310.86	43.88	43.50	11.40	35.50	3.40	47.28	54.00	-6.72	AV	Vertical
7310.96	54.55	43.50	11.40	35.50	3.40	57.95	74.00	-16.05	PK	Horizontal
7310.96	44.89	43.50	11.40	35.50	3.40	48.29	54.00	-5.71	AV	Horizontal



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802.11b High Channel

			Antenna	Corrected	Emission				
Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
High Channel (2462 MHz)									
60.98	44.70	6.70	28.20	-9.80	51.18	74.00	-22.82	PK	Vertical
51.41	44.70	6.70	28.20	-9.80	41.61	54.00	-12.39	AV	Vertical
62.11	44.70	6.70	28.20	-9.80	52.31	74.00	-21.69	PK	Horizontal
50.98	44.70	6.70	28.20	-9.80	41.18	54.00	-12.82	AV	Horizontal
59.19	44.20	9.04	31.60	-3.56	55.63	74.00	-18.37	PK	Vertical
50.14	44.20	9.04	31.60	-3.56	46.58	54.00	-7.42	AV	Vertical
59.63	44.20	9.04	31.60	-3.56	56.07	74.00	-17.93	PK	Horizontal
50.36	44.20	9.04	31.60	-3.56	46.80	54.00	-7.20	AV	Horizontal
49.31	44.20	9.86	32.00	-2.34	46.97	74.00	-27.03	PK	Vertical
40.14	44.20	9.86	32.00	-2.34	37.80	54.00	-16.20	AV	Vertical
47.91	44.20	9.86	32.00	-2.34	45.57	74.00	-28.43	PK	Horizontal
38.41	44.20	9.86	32.00	-2.34	36.07	54.00	-17.93	AV	Horizontal
54.13	43.50	11.40	35.50	3.40	57.53	74.00	-16.47	PK	Vertical
44.68	43.50	11.40	35.50	3.40	48.08	54.00	-5.92	AV	Vertical
54.15	43.50	11.40	35.50	3.40	57.55	74.00	-16.45	PK	Horizontal
44.37	43.50	11.40	35.50	3.40	47.77	54.00	-6.23	AV	Horizontal
	(dBµV) 60.98 51.41 62.11 50.98 59.19 50.14 59.63 50.36 49.31 40.14 47.91 38.41 54.13 44.68 54.15	60.98 44.70 51.41 44.70 62.11 44.70 50.98 44.70 59.19 44.20 50.14 44.20 59.63 44.20 50.36 44.20 49.31 44.20 40.14 44.20 47.91 44.20 38.41 44.20 54.13 43.50 44.68 43.50	(dBμV) (dB) (dB) 60.98 44.70 6.70 51.41 44.70 6.70 62.11 44.70 6.70 50.98 44.70 6.70 59.19 44.20 9.04 50.14 44.20 9.04 59.63 44.20 9.04 50.36 44.20 9.86 40.14 44.20 9.86 47.91 44.20 9.86 38.41 44.20 9.86 54.13 43.50 11.40 44.68 43.50 11.40 54.15 43.50 11.40	(dBμV) (dB) (dB) (dB/m) High 60.98 44.70 6.70 28.20 51.41 44.70 6.70 28.20 62.11 44.70 6.70 28.20 50.98 44.70 6.70 28.20 59.19 44.20 9.04 31.60 50.14 44.20 9.04 31.60 59.63 44.20 9.04 31.60 50.36 44.20 9.86 32.00 40.14 44.20 9.86 32.00 47.91 44.20 9.86 32.00 38.41 44.20 9.86 32.00 54.13 43.50 11.40 35.50 54.15 43.50 11.40 35.50	Reading (dBμV) Amplifier (dB) Loss (dB/m) Factor (dB/m) Factor (dB) High Channel (2462 60.98 44.70 6.70 28.20 -9.80 51.41 44.70 6.70 28.20 -9.80 62.11 44.70 6.70 28.20 -9.80 50.98 44.70 6.70 28.20 -9.80 59.19 44.20 9.04 31.60 -3.56 50.14 44.20 9.04 31.60 -3.56 59.63 44.20 9.04 31.60 -3.56 50.36 44.20 9.86 32.00 -2.34 40.14 44.20 9.86 32.00 -2.34 47.91 44.20 9.86 32.00 -2.34 38.41 44.20 9.86 32.00 -2.34 54.13 43.50 11.40 35.50 3.40 54.15 43.50 11.40 35.50 3.40	Reading (dBμV) Amplifier (dB) Loss (dB/m) Factor (dB) Eactor (dB) Level (dBμV/m) High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 51.41 44.70 6.70 28.20 -9.80 41.61 62.11 44.70 6.70 28.20 -9.80 52.31 50.98 44.70 6.70 28.20 -9.80 41.18 59.19 44.20 9.04 31.60 -3.56 55.63 50.14 44.20 9.04 31.60 -3.56 46.58 59.63 44.20 9.04 31.60 -3.56 56.07 50.36 44.20 9.86 32.00 -2.34 46.97 40.14 44.20 9.86 32.00 -2.34 37.80 47.91 44.20 9.86 32.00 -2.34 36.07 54.13 43.50 11.40 35.50 3.40 57.53 44.68 43.50 <td>Reading (dBμV) Amplifier (dB) Loss (dB/m) Factor (dB/m) Level (dBμV/m) Limits (dBμV/m) High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 74.00 51.41 44.70 6.70 28.20 -9.80 41.61 54.00 62.11 44.70 6.70 28.20 -9.80 52.31 74.00 50.98 44.70 6.70 28.20 -9.80 41.18 54.00 59.19 44.20 9.04 31.60 -3.56 55.63 74.00 59.63 44.20 9.04 31.60 -3.56 56.07 74.00 50.36 44.20 9.04 31.60 -3.56 56.07 74.00 49.31 44.20 9.86 32.00 -2.34 46.97 74.00 40.14 44.20 9.86 32.00 -2.34 45.57 74.00 38.41 44.20 9.86 32.00 -2.34 45.57</td> <td>Reading (dBμV) Amplifier (dBμ) Loss (dB/m) Factor (dB) Level (dBμV/m) Limits (dBμV/m) Margin (dBμV/m) High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 74.00 -22.82 51.41 44.70 6.70 28.20 -9.80 41.61 54.00 -12.39 62.11 44.70 6.70 28.20 -9.80 52.31 74.00 -21.69 50.98 44.70 6.70 28.20 -9.80 41.18 54.00 -12.82 59.19 44.20 9.04 31.60 -3.56 55.63 74.00 -18.37 50.14 44.20 9.04 31.60 -3.56 46.58 54.00 -7.42 59.63 44.20 9.04 31.60 -3.56 56.07 74.00 -17.93 50.36 44.20 9.86 32.00 -2.34 46.97 74.00 -27.03 40.14 44.20 9.86 32.00</td> <td>Reading (dBμV) Amplifier (dB) Loss (dB/m) Factor (dB) Level (dBμV/m) (dBμV/m) Limits (dBμV/m) (dB) Margin Type High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 74.00 -22.82 PK 51.41 44.70 6.70 28.20 -9.80 41.61 54.00 -12.39 AV 62.11 44.70 6.70 28.20 -9.80 52.31 74.00 -21.69 PK 50.98 44.70 6.70 28.20 -9.80 41.18 54.00 -12.82 AV 59.19 44.20 9.04 31.60 -3.56 55.63 74.00 -18.37 PK 50.14 44.20 9.04 31.60 -3.56 56.07 74.00 -17.93 PK 50.36 44.20 9.04 31.60 -3.56 56.07 74.00 -17.93 PK 50.36 44.20 9.86 32.00 -2.34 46.97 74.</td>	Reading (dBμV) Amplifier (dB) Loss (dB/m) Factor (dB/m) Level (dBμV/m) Limits (dBμV/m) High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 74.00 51.41 44.70 6.70 28.20 -9.80 41.61 54.00 62.11 44.70 6.70 28.20 -9.80 52.31 74.00 50.98 44.70 6.70 28.20 -9.80 41.18 54.00 59.19 44.20 9.04 31.60 -3.56 55.63 74.00 59.63 44.20 9.04 31.60 -3.56 56.07 74.00 50.36 44.20 9.04 31.60 -3.56 56.07 74.00 49.31 44.20 9.86 32.00 -2.34 46.97 74.00 40.14 44.20 9.86 32.00 -2.34 45.57 74.00 38.41 44.20 9.86 32.00 -2.34 45.57	Reading (dBμV) Amplifier (dBμ) Loss (dB/m) Factor (dB) Level (dBμV/m) Limits (dBμV/m) Margin (dBμV/m) High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 74.00 -22.82 51.41 44.70 6.70 28.20 -9.80 41.61 54.00 -12.39 62.11 44.70 6.70 28.20 -9.80 52.31 74.00 -21.69 50.98 44.70 6.70 28.20 -9.80 41.18 54.00 -12.82 59.19 44.20 9.04 31.60 -3.56 55.63 74.00 -18.37 50.14 44.20 9.04 31.60 -3.56 46.58 54.00 -7.42 59.63 44.20 9.04 31.60 -3.56 56.07 74.00 -17.93 50.36 44.20 9.86 32.00 -2.34 46.97 74.00 -27.03 40.14 44.20 9.86 32.00	Reading (dBμV) Amplifier (dB) Loss (dB/m) Factor (dB) Level (dBμV/m) (dBμV/m) Limits (dBμV/m) (dB) Margin Type High Channel (2462 MHz) 60.98 44.70 6.70 28.20 -9.80 51.18 74.00 -22.82 PK 51.41 44.70 6.70 28.20 -9.80 41.61 54.00 -12.39 AV 62.11 44.70 6.70 28.20 -9.80 52.31 74.00 -21.69 PK 50.98 44.70 6.70 28.20 -9.80 41.18 54.00 -12.82 AV 59.19 44.20 9.04 31.60 -3.56 55.63 74.00 -18.37 PK 50.14 44.20 9.04 31.60 -3.56 56.07 74.00 -17.93 PK 50.36 44.20 9.04 31.60 -3.56 56.07 74.00 -17.93 PK 50.36 44.20 9.86 32.00 -2.34 46.97 74.

Remark:

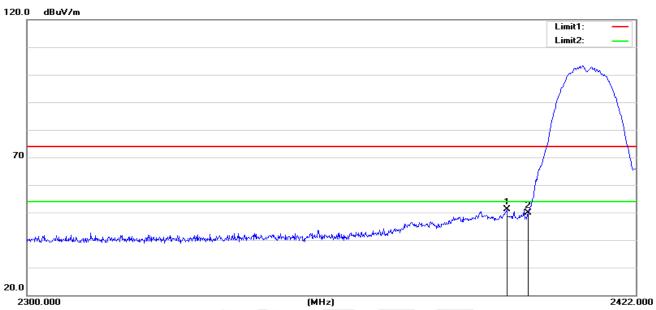
- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- Scan with 802.11b, 802.11g, 802.11n (HT-20) the worst case is 802.11b.
 Emission Level = Reading + Factor
 Margin = Limit Emission Leve
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



3.2.6 TEST RESULTS (Band edge Requirements)

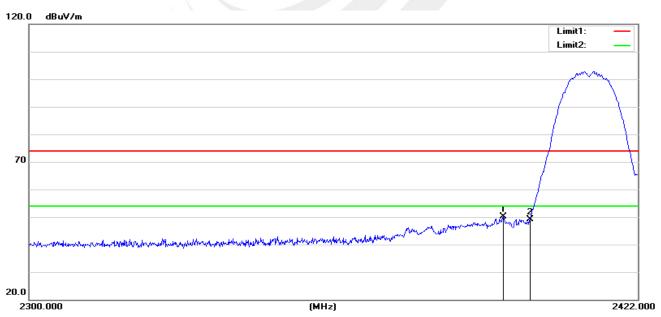
802.11b-Low

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2395.648	62.83	-10.73	51.10	74.00	-22.90	peak
2	2400.000	61.60	-10.69	49.91	74.00	-24.09	peak

Vertical



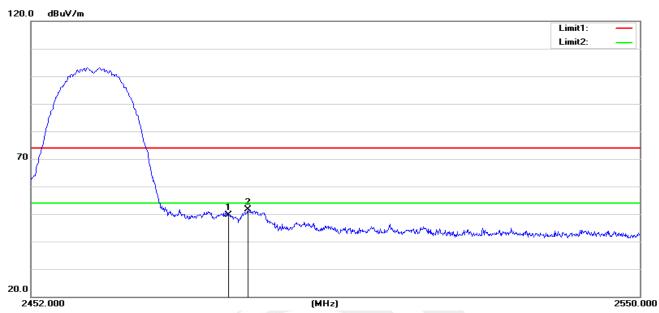
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2394.550	61.79	-10.73	50.06	74.00	-23.94	peak
2	2400.000	60.78	-10.69	49.09	74.00	-24.91	peak





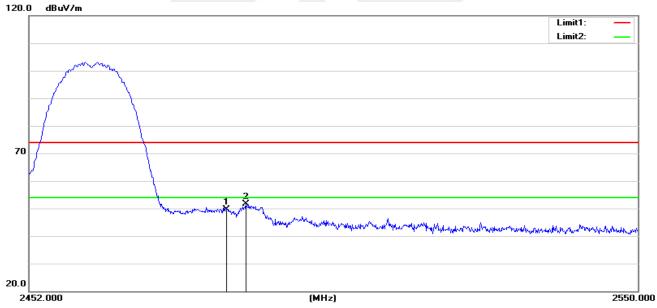
802.11b-High

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	60.89	-10.20	49.69	74.00	-24.31	peak
2	2486.496	62.83	-10.19	51.64	74.00	-22.36	peak

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	60.89	-10.20	49.69	74.00	-24.31	peak
2	2486.496	62.83	-10.19	51.64	74.00	-22.36	peak

Note: 802.11b, 802.11g, 802.11n (HT-20) mode all have been tested, the worst case is 802.11b, only show the worst case.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1LIMIT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.2 TEST PROCEDURE

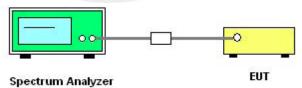
Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	30 MHz to 10th carrier harmonic		
RB / VB (emission in restricted band)	100 KHz/300 KHz		
Trace-Mode:	Max hold		

For Band edge

Spectrum Parameter	Setting			
Detector	Peak			
Stort/Ston Fraguency	Lower Band Edge: 2300 to 2412 MHz			
Start/Stop Frequency	Upper Band Edge: 2462 to 2500 MHz			
RB / VB (emission in restricted band)	100 KHz/300 KHz			
Trace-Mode:	Max hold			

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



The EUT which is powered by the Adapter, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

4.5 EUT OPERATION CONDITIONS

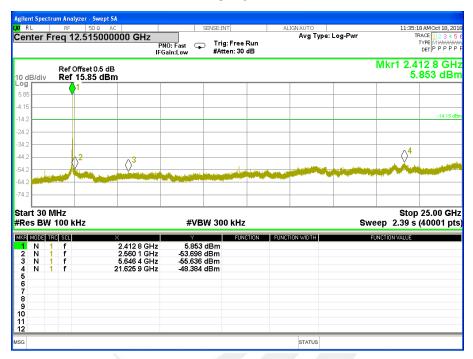
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

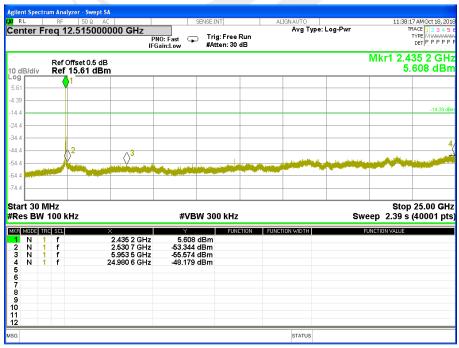


4.6 TEST RESULTS

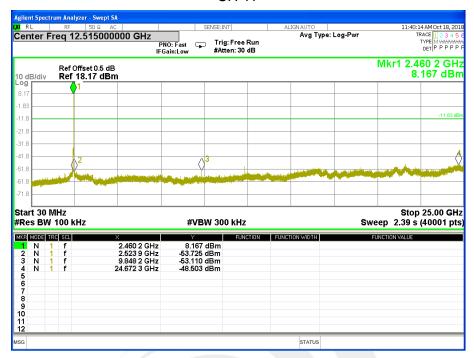
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX b Mode /CH01, CH06, CH11

CH 01





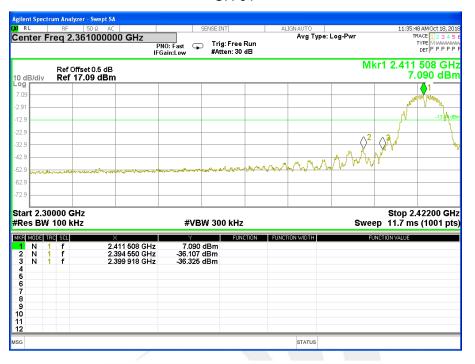


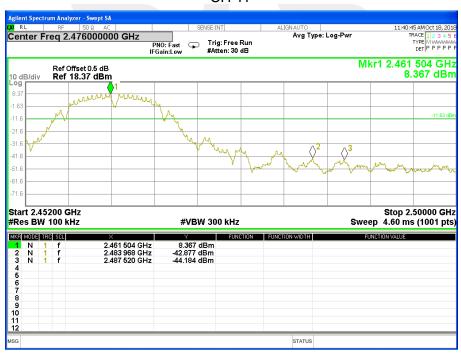




Band edge

CH 01



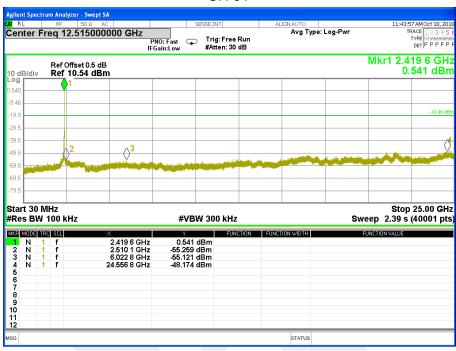


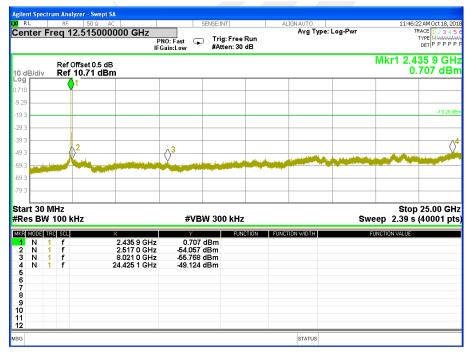


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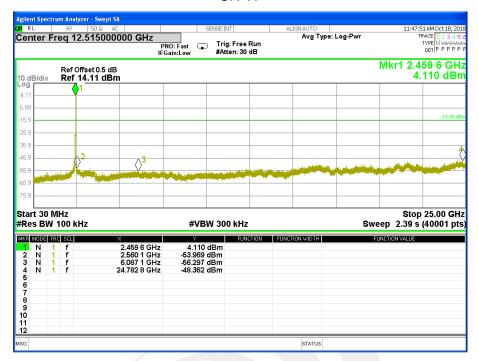
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX g Mode /CH01, CH06, CH11

CH 01







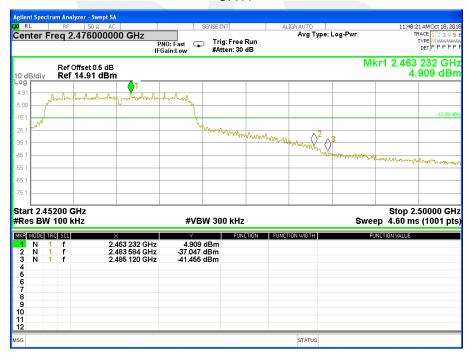




Band edge

CH 01



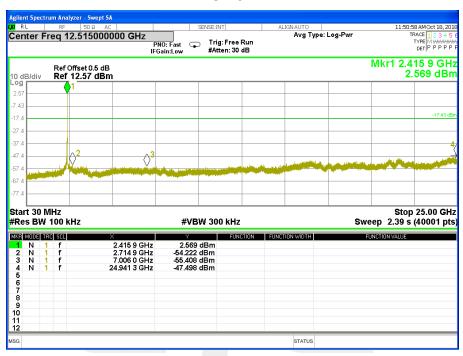




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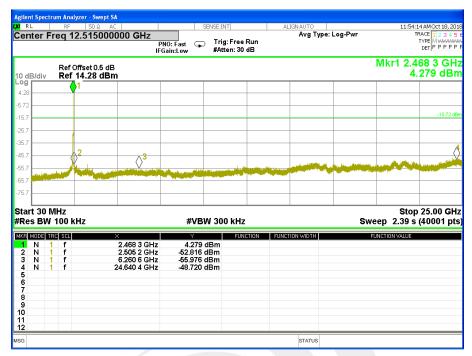
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

CH 01





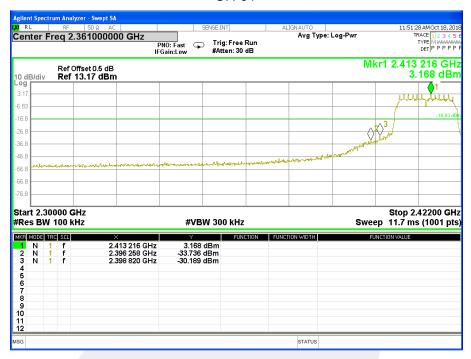






Band edge

CH 01







5. POWER SPECTRAL DENSITY TEST

5.1 LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥ 3KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the 100 kHz \geq RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION 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.



5.6 TEST RESULTS

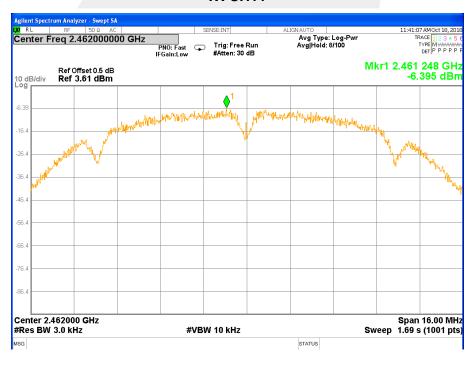
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX b Mode /CH01, CH06, CH11

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-6.961	≤8	PASS
2437 MHz	-7.411	≤8	PASS
2462 MHz	-6.395	≤8	PASS







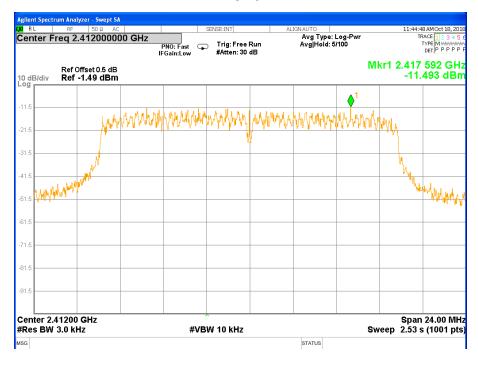




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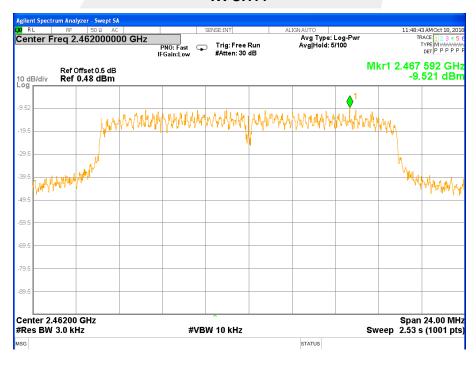
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX g Mode /CH01, CH06, CH11

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-11.493	≤8	PASS
2437 MHz	-12.351	≤8	PASS
2462 MHz	-9.521	≤8	PASS







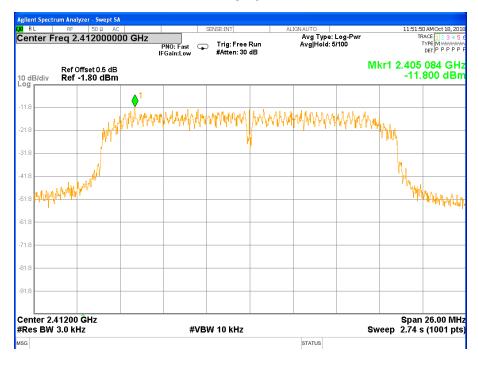




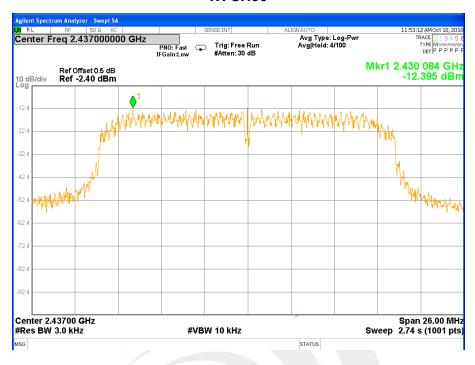
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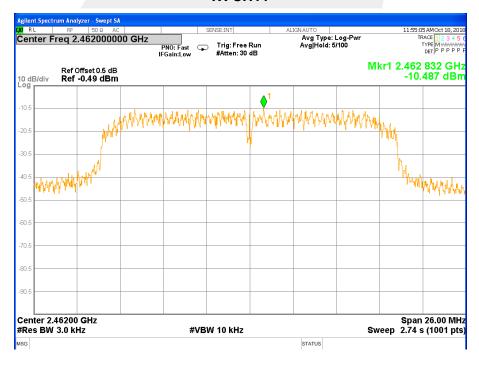
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-11.800	8≥	PASS
2437 MHz	-12.395	≤8	PASS
2462 MHz	-10.487	≤8	PASS











6. BANDWIDTH TEST

6.1 LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit		Frequency Range (MHz)	Result	
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION 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.

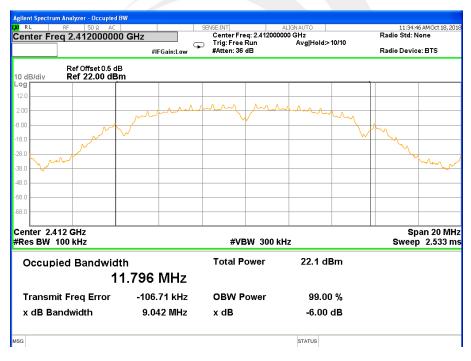


6.6 TEST RESULTS

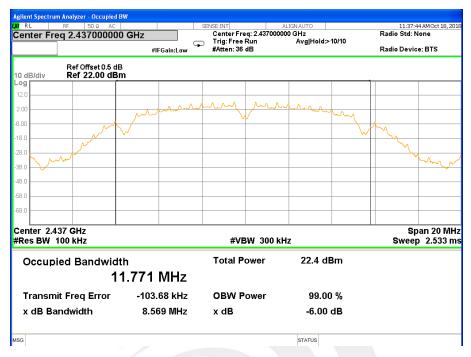
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX b Mode /CH01, CH06, CH11

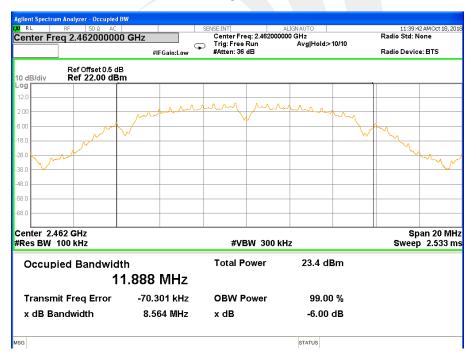
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	9.042	≥500KHz	PASS
2437 MHz	8.569	≥500KHz	PASS
2462 MHz	8.564	≥500KHz	PASS







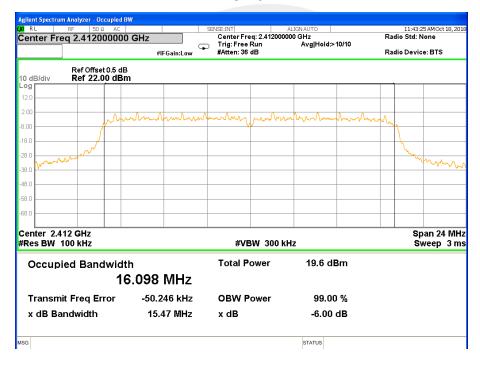




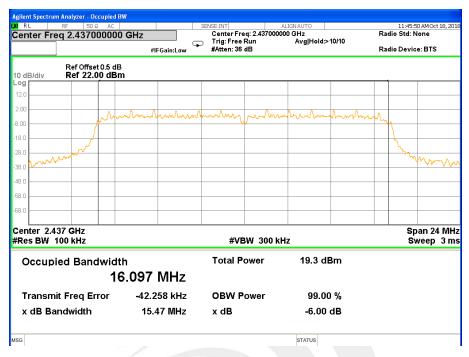
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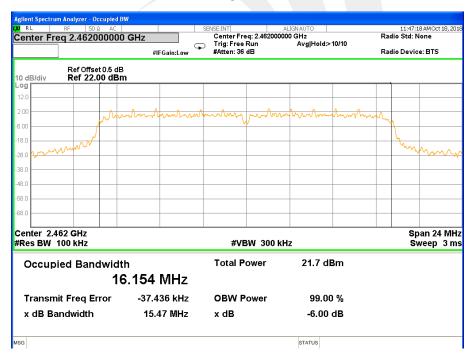
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX g Mode /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.47	≥500KHz	PASS
2437 MHz	15.47	≥500KHz	PASS
2462 MHz	15.47	≥500KHz	PASS







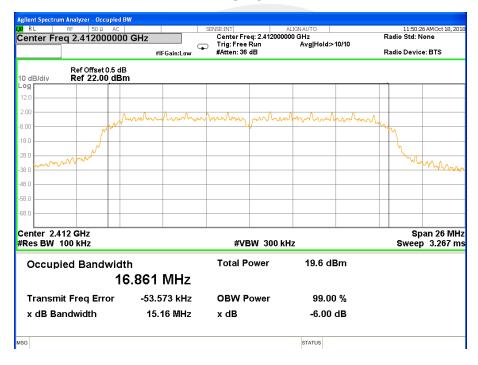




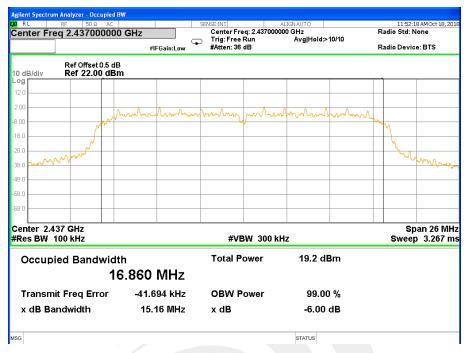
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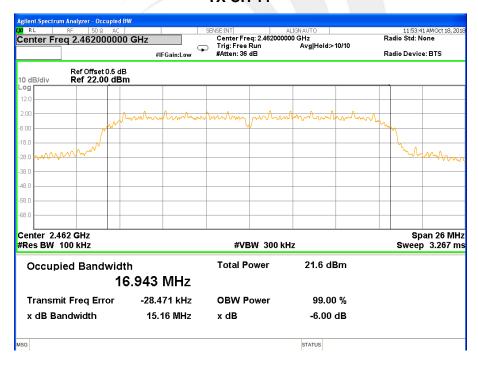
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.16	≥500KHz	PASS
2437 MHz	15.16	≥500KHz	PASS
2462 MHz	15.16	≥500KHz	PASS











7. PEAK OUTPUT POWER TEST

7.1 LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Meter

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

EUT	Power meter

7.5 EUT OPERATION 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.

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7.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	AC120V/60Hz		

TX 802.11b Mode					
Test	Frequency	Conducted	Output Power	LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	17.14	17.02	30	
CH06	2437	17.63	16.89	30	
CH11	2462	18.15	18.09	30	

	TX 802.11g Mode					
Test	Frequency	Conducted	LIMIT			
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm		
CH01	2412	18.38	16.53	30		
CH06	2437	17.92	17.46	30		
CH11	2462	18.72	17.70	30		

TX 802.11n20 Mode				
Test	Frequency	Conducted	Output Power	LIMIT
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	17.88	16.22	30
CH06	2437	17.82	16.38	30
CH11	2462	18.41	16.45	30



8. ANTENNA REQUIREMENT

8.1 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.

8.2 EUT ANTENNA

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





APPENDIX - PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

* * * * * END OF THE REPORT * * * *

