



RADIO TEST REPORT

Report No: STS1704021F01

Issued for

Winner Wave Limited

4F.-5, No.736, Jhongjheng Rd., Jhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

L	
A	
B	

Product Name:	EZCast	
Brand Name:	EZCast, EZCast PRO, MiraScreen, AnyCast, MiraDisplay	
Model Name:	EZCast 4K	
Series Model:	MiraScreen 4K, AnyCast 4K,	
oenes model.	MiraDisplay 4K, EZCast PRO 4K	
FCC ID:	2ADFS-CC32A	
Test Standard:	FCC Part 15.247	

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TEST RESULT CERTIFICATION

	-01 1120	SEI SERTII ISATIS	11
Applicant's name:	Winner Wav	ve Limited	
Address:	4F5, No.73 Taiwan (R.0		ghe Dist., New Taipei City 235
Manufacture's Name:	SAGE ELECTRONICS TECHNOLOGY LIMITED		
Address:		uilding 8, Wisdom Land B 518000, P.R.China	Business Park, Nanshan Distric
Product description			
Product name:	EZCast		
Model and/or type reference .:	EZCast 4K		
Series Model:	MiraScreen	4K, AnyCast 4K, MiraDis	play 4K, EZCast PRO 4K
Standards:	FCC Part15	5.247	
Test procedure	. ANSI C63.1	10-2013	
This device described above has test (EUT) is in compliance with identified in the report. This report shall not be reproduct may be altered or revised by ST.	the FCC req	uirements. And it is applicately full, without the written applications.	cable only to the tested sample oproval of STS, this document
Date of Test			
Date (s) of performance of tests.	:	10 Apr. 2017~27 Apr. 20	017
Date of Issue		27 Apr. 2017	
Test Result	:	Pass	
Testing Engine Technical Man	_	(Leo li)	APPROVAL OF
		(Tony liu)	HIJO . MOLICE

Authorized Signatory:



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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	27 Apr. 2017	STS1704021F01	ALL	Initial Issue





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v03r05

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

BZT Testing Technology Co., Ltd.

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

Guangdong, China

CNAS Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
8	All emissions,radiated(>1G)	±3.03dB
9	Temperature	±0.5°C
10	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	EZCast			
Trade Name	EZCast, EZCast PRO, MiraScreen, AnyCast, MiraDisplay			
Model Name	EZCast 4K			
Series Model	MiraScreen 4K, Any	yCast 4K, MiraDisplay 4K, EZCast PRO 4K		
Model Difference	Only different in mo	del name and brand name		
Product Description	The EUT is a EZCast Operation			
Channel List	Please refer to the Note 2.			
Power rating	DC 5V, 1A			
Hardware version number				
Software version number				
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.



Operation Frequency of channel Channel List for 802.11n(40MHz) 802.11b/g/n(20MHz) Channel Frequency Channel Frequency

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:

2.40112 Test I Tequello	2.46 12 Test Frequency.				
For 802.11b/g/n (HT20)		For 802.11n (HT40)			
Channel	Freq.(MHz)	Channel	Freq.(MHz)		
01	2412	03	2422		
06	2437	06	2437		
11	2462	09	2452		

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	EZCast, EZCast PRO, MiraScr een, AnyCast , MiraDis play	EZCast 4K	PCB Antenna	N/A	0	WIFI Antenna



2.2 DESCRIPTION OF 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
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

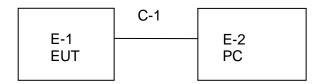
Note:

- (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 60Hz) for which the device is capable of operation.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set







2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	EZCast	EZCast, EZCast PRO, MiraScreen, AnyCast, MiraDisplay	EZCast 4K	N/A	EUT
E-2	PC	acer	500-320cx	4CV428DQVV	N/A

Item	Shielded Type	Ferrite Core	Length	Note

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



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Radiation rest equipment					
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
Bilog Antenna	TESEQ	CBL6111D	34678	2014.11.24	2017.11.23
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.05	2018.03.04
Horn Antenna	Schwarzbeck	BBHA 9170	9170-0741	2016.03.06	2019.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.06	2017.06.05
PreAmplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Loop Antenna	EMCO	6502	9003-2485	2016.03.06	2019.03.05
Preamplifier	Agilent	8449B	60538	2016.10.23	2017.10.22
Low frequency cable	EM	R01	N/A	NCR	NCR
High frequency cable	SCHWARZBECK	AK9515H	SN-96286/9628 7	NCR	NCR
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.23	2017.10.22
LISN	EMCO	3810/2NM	000-23625	2016.10.23	2017.10.22
Conduction Cable	EM	C01	N/A	NCR	NCR
Shielding Room	Changling	854	N/A	2016.10.23	2017.10.22

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2016.10.23	2017.10.22
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22



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.

EDEOLIENCY (MHz)	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

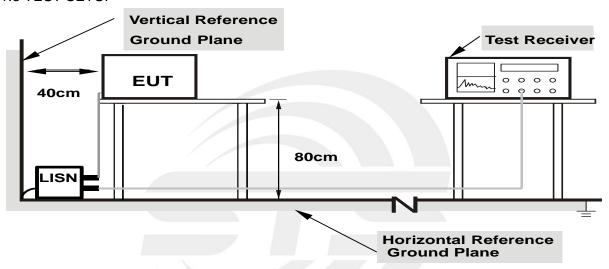
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



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

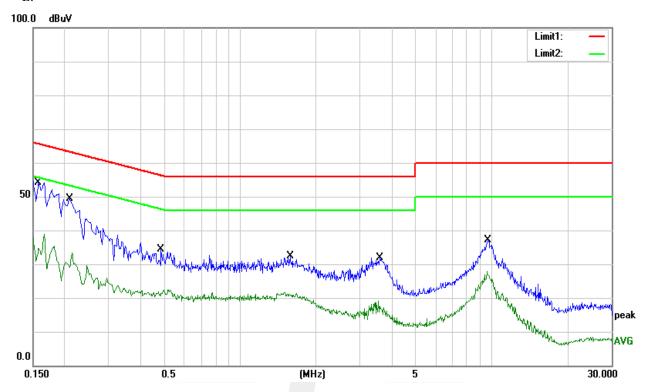
3.1.4 EUT OPERATING CONDITIONS

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.

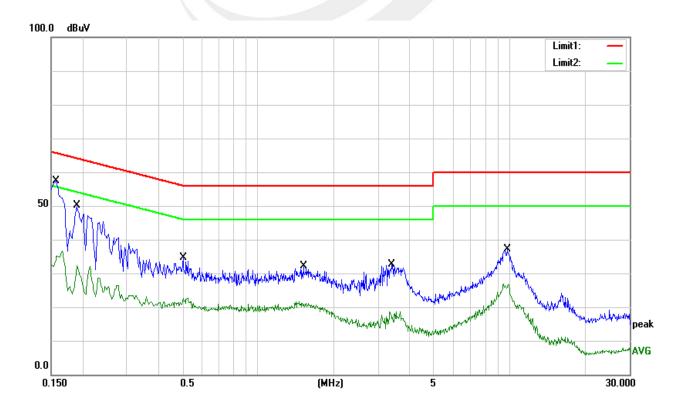


3.1.5 TEST RESULT

L:



N:





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 of 10 (B)/(12B)	Enviro di 10				
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	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	4 MILE /2MILE	
band)	1 MHz /3MHz	

For Band edge

· = aa vage		
Spectrum Parameter	Setting	
Detector	Peak	
Chamb/Cham Emanyana	Lower Band Edge: 2300 to 2422 MHz	
Start/Stop Frequency	Upper Band Edge: 2452 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

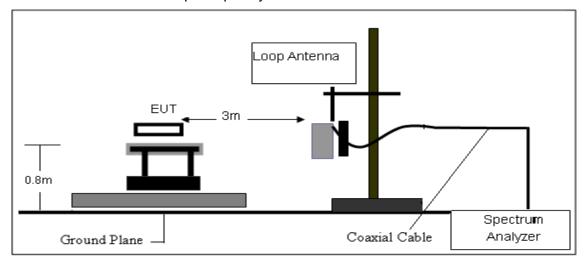
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the 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

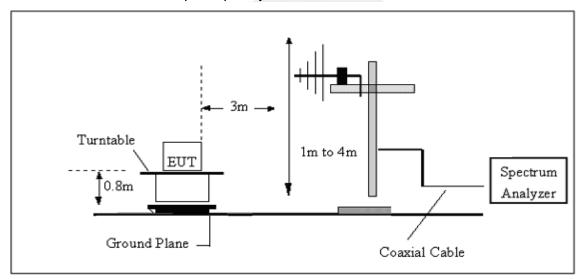


3.2.3 TEST SETUP

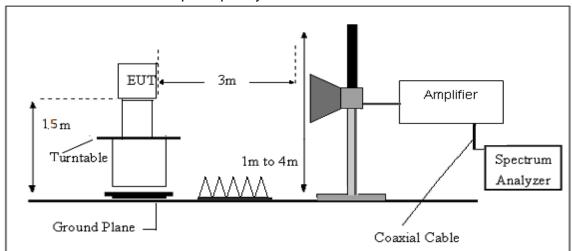
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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 TEST RESULT

9KHz-30MHz

Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX Mode	Polarization:	

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.



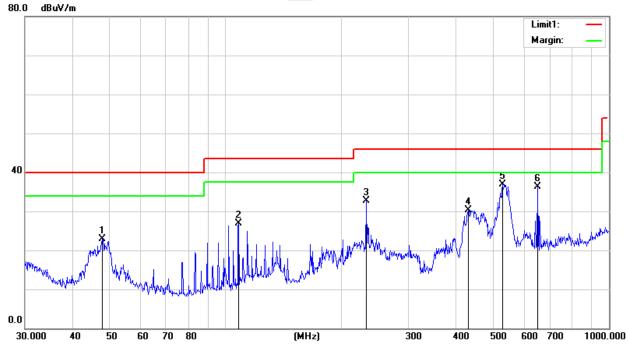
(30MHz - 1000MHz)

Temperature:	26℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 5V From PC
I LOCT IVIONO	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 1-1M worst mode)	Polarization:	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
47.6584	43.21	-20.27	22.94	40.00	-17.06	QP
108.2667	45.33	-18.49	26.84	43.50	-16.66	QP
232.5318	50.99	-18.29	32.70	46.00	-13.30	QP
429.5228	41.18	10.90	30.28	46.00	-15.72	QP
528.2458	45.06	-8.09	36.97	46.00	-9.03	QP
651.9415	42.64	-6.29	36.35	46.00	-9.65	QP

Remark:

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





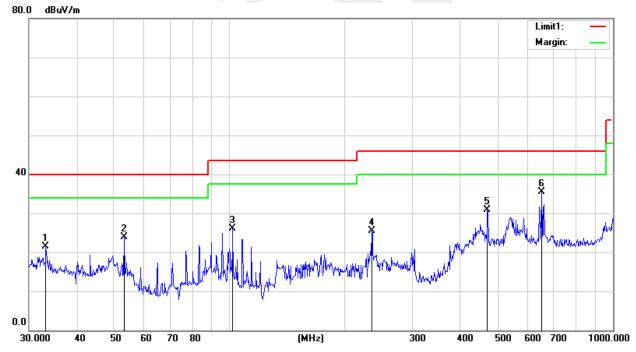
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Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 5V From PC
LIDGE IVIDAD.	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 1-1M worst mode)	Polarization:	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
33.2111	34.26	-12.84	21.42	40.00	-18.58	QP
53.1313	46.35	-22.38	23.97	40.00	-16.03	QP
102.0014	45.20	-19.02	26.18	43.50	-17.32	QP
234.9910	43.70	-18.12	25.58	46.00	-20.42	QP
470.5231	40.66	-9.75	30.91	46.00	-15.09	QP
651.9416	41.87	-6.29	35.58	46.00	-10.42	QP

Remark:.

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





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

802.11b Low Channel

				Antonno						
Гиодина	Doorline.	A ma m life a m	Loss	Antenna	Corrected	Emission	Lineite	Morein	Dotosta	
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
					Channel (2412 N	-				T
3264.71	48.66	44.70	6.70	28.20	-9.80	38.86	74.00	-35.14	PK	Vertical
3264.71	38.50	44.70	6.70	28.20	-9.80	28.70	54.00	-25.30	AV	Vertical
3264.68	47.95	44.70	6.70	28.20	-9.80	38.15	74.00	-35.85	PK	Horizontal
3264.68	39.08	44.70	6.70	28.20	-9.80	29.28	54.00	-24.72	AV	Horizontal
4824.30	58.57	44.20	9.04	31.60	-3.56	55.01	74.00	-18.99	PK	Vertical
4824.30	38.12	44.20	9.04	31.60	-3.56	34.56	54.00	-19.44	AV	Vertical
4824.56	59.61	44.20	9.04	31.60	-3.56	56.05	74.00	-17.95	PK	Horizontal
4824.56	39.45	44.20	9.04	31.60	-3.56	35.89	54.00	-18.11	AV	Horizontal
5359.69	45.65	44.20	9.86	32.00	-2.34	43.31	74.00	-30.69	PK	Vertical
5359.69	38.35	44.20	9.86	32.00	-2.34	36.01	54.00	-17.99	AV	Vertical
5359.79	46.02	44.20	9.86	32.00	-2.34	43.68	74.00	-30.32	PK	Horizontal
5359.79	38.34	44.20	9.86	32.00	-2.34	36.00	54.00	-18.00	AV	Horizontal
7235.90	50.69	43.50	11.40	35.50	3.40	54.09	74.00	-19.91	PK	Vertical
7235.90	33.50	43.50	11.40	35.50	3.40	36.90	54.00	-17.10	AV	Vertical
7235.92	51.20	43.50	11.40	35.50	3.40	54.60	74.00	-19.40	PK	Horizontal
7235.92	32.57	43.50	11.40	35.50	3.40	35.97	54.00	-18.03	AV	Horizontal
11035.79	41.06	43.60	14.30	39.50	10.20	51.26	74.00	-22.74	PK	Vertical
11035.79	31.05	43.60	14.30	39.50	10.20	41.25	54.00	-12.75	AV	Vertical
11036.04	40.76	43.60	14.30	39.50	10.20	50.96	74.00	-23.04	PK	Horizontal
11036.04	30.82	43.60	14.30	39.50	10.20	41.02	54.00	-12.98	AV	Horizontal
13299.39	40.08	42.60	15.90	38.90	12.20	52.28	74.00	-21.72	PK	Vertical
13299.39	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.30	40.24	42.60	15.90	38.90	12.20	52.44	74.00	-21.56	PK	Horizontal
13299.30	29.30	42.60	15.90	38.90	12.20	41.50	54.00	-12.50	AV	Horizontal
15999.84	40.40	42.70	18.00	37.10	12.40	52.80	74.00	-21.20	PK	Vertical
15999.84	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.77	39.69	42.70	18.00	37.10	12.40	52.09	74.00	-21.91	PK	Horizontal
15999.77	28.98	42.70	18.00	37.10	12.40	41.38	54.00	-12.62	AV	Horizontal
17997.76	30.67	42.70	19.40	46.50	23.20	53.87	74.00	-20.13	PK	Vertical
17997.76	19.57	42.70	19.40	46.50	23.20	42.77	54.00	-11.23	AV	Vertical
17997.57	30.62	42.70	19.40	46.50	23.20	53.82	74.00	-20.18	PK	Horizontal
17997.57	18.02	42.70	19.40	46.50	23.20	41.22	54.00	-12.78	AV	Horizontal
	L	<u> </u>	l	•			L		<u> </u>	



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 N	ЛНz)				
3264.73	49.02	44.70	6.70	28.20	-9.80	39.22	74.00	-34.78	PK	Vertical
3264.73	37.93	44.70	6.70	28.20	-9.80	28.13	54.00	-25.87	AV	Vertical
3264.76	48.77	44.70	6.70	28.20	-9.80	38.97	74.00	-35.03	PK	Horizontal
3264.76	38.86	44.70	6.70	28.20	-9.80	29.06	54.00	-24.94	AV	Horizontal
4874.58	58.46	44.20	9.04	31.60	-3.56	54.90	74.00	-19.10	PK	Vertical
4874.58	39.54	44.20	9.04	31.60	-3.56	35.98	54.00	-18.02	AV	Vertical
4874.48	59.20	44.20	9.04	31.60	-3.56	55.64	74.00	-18.36	PK	Horizontal
4874.48	38.93	44.20	9.04	31.60	-3.56	35.37	54.00	-18.63	AV	Horizontal
5359.61	45.43	44.20	9.86	32.00	-2.34	43.09	74.00	-30.91	PK	Vertical
5359.61	37.21	44.20	9.86	32.00	-2.34	34.87	54.00	-19.13	AV	Vertical
5359.86	45.67	44.20	9.86	32.00	-2.34	43.33	74.00	-30.67	PK	Horizontal
5359.86	37.41	44.20	9.86	32.00	-2.34	35.07	54.00	-18.93	AV	Horizontal
7310.86	51.67	43.50	11.40	35.50	3.40	55.07	74.00	-18.93	PK	Vertical
7310.86	33.88	43.50	11.40	35.50	3.40	37.28	54.00	-16.72	AV	Vertical
7310.89	51.04	43.50	11.40	35.50	3.40	54.44	74.00	-19.56	PK	Horizontal
7310.89	32.71	43.50	11.40	35.50	3.40	36.11	54.00	-17.89	AV	Horizontal
9747.93	40.96	43.60	14.30	39.50	10.20	51.16	74.00	-22.84	PK	Vertical
9747.93	30.45	43.60	14.30	39.50	10.20	40.65	54.00	-13.35	AV	Vertical
9748.04	40.15	43.60	14.30	39.50	10.20	50.35	74.00	-23.65	PK	Horizontal
9748.04	30.91	43.60	14.30	39.50	10.20	41.11	54.00	-12.89	AV	Horizontal
13299.34	40.72	42.60	15.90	38.90	12.20	52.92	74.00	-21.08	PK	Vertical
13299.34	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical
13299.41	40.43	42.60	15.90	38.90	12.20	52.63	74.00	-21.37	PK	Horizontal
13299.41	29.75	42.60	15.90	38.90	12.20	41.95	54.00	-12.05	AV	Horizontal
15999.73	40.87	42.70	18.00	37.10	12.40	53.27	74.00	-20.73	PK	Vertical
15999.73	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical
15999.56	40.72	42.70	18.00	37.10	12.40	53.12	74.00	-20.88	PK	Horizontal
15999.56	30.18	42.70	18.00	37.10	12.40	42.58	54.00	-11.42	AV	Horizontal
17997.74	30.43	42.70	19.40	46.50	23.20	53.63	74.00	-20.37	PK	Vertical
17997.74	19.86	42.70	19.40	46.50	23.20	43.06	54.00	-10.94	AV	Vertical
17997.59	29.88	42.70	19.40	46.50	23.20	53.08	74.00	-20.92	PK	Horizontal
17997.59	19.02	42.70	19.40	46.50	23.20	42.22	54.00	-11.78	AV	Horizontal



802.11b High 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
				high	Channel (2462 l	MHz)				
3264.73	48.65	44.70	6.70	28.20	-9.80	38.85	74.00	-35.15	PK	Vertical
3264.73	39.53	44.70	6.70	28.20	-9.80	29.73	54.00	-24.27	AV	Vertical
3264.61	48.87	44.70	6.70	28.20	-9.80	39.07	74.00	-34.93	PK	Horizontal
3264.61	38.80	44.70	6.70	28.20	-9.80	29.00	54.00	-25.00	AV	Horizontal
4924.50	59.29	44.20	9.04	31.60	-3.56	55.73	74.00	-18.27	PK	Vertical
4924.50	39.12	44.20	9.04	31.60	-3.56	35.56	54.00	-18.44	AV	Vertical
4924.59	59.31	44.20	9.04	31.60	-3.56	55.75	74.00	-18.25	PK	Horizontal
4924.59	38.26	44.20	9.04	31.60	-3.56	34.70	54.00	-19.30	AV	Horizontal
5359.86	45.36	44.20	9.86	32.00	-2.34	43.02	74.00	-30.98	PK	Vertical
5359.86	38.32	44.20	9.86	32.00	-2.34	35.98	54.00	-18.02	AV	Vertical
5359.80	46.14	44.20	9.86	32.00	-2.34	43.80	74.00	-30.20	PK	Horizontal
5359.80	38.18	44.20	9.86	32.00	-2.34	35.84	54.00	-18.16	AV	Horizontal
7385.80	50.91	43.50	11.40	35.50	3.40	54.31	74.00	-19.69	PK	Vertical
7385.80	32.88	43.50	11.40	35.50	3.40	36.28	54.00	-17.72	AV	Vertical
7385.86	50.89	43.50	11.40	35.50	3.40	54.29	74.00	-19.71	PK	Horizontal
7385.86	32.69	43.50	11.40	35.50	3.40	36.09	54.00	-17.91	AV	Horizontal
9848.00	40.68	43.60	14.30	39.50	10.20	50.88	74.00	-23.12	PK	Vertical
9848.00	29.93	43.60	14.30	39.50	10.20	40.13	54.00	-13.87	AV	Vertical
9848.02	40.05	43.60	14.30	39.50	10.20	50.25	74.00	-23.75	PK	Horizontal
9848.02	30.60	43.60	14.30	39.50	10.20	40.80	54.00	-13.20	AV	Horizontal
13299.23	39.76	42.70	18.00	37.10	12.40	52.16	74.00	-21.84	PK	Vertical
13299.23	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical
13299.47	40.55	42.70	18.00	37.10	12.40	52.95	74.00	-21.05	PK	Horizontal
13299.47	28.93	42.70	18.00	37.10	12.40	41.33	54.00	-12.67	AV	Horizontal
17997.86	30.00	42.70	19.40	46.50	23.20	53.20	74.00	-20.80	PK	Vertical
17997.86	19.50	42.70	19.40	46.50	23.20	42.70	54.00	-11.30	AV	Vertical
17997.78	30.32	42.70	19.40	46.50	23.20	53.52	74.00	-20.48	PK	Horizontal
	18.41	42.70	19.40	46.50	23.20	41.61	54.00	-12.39	AV	Horizontal

Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) 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.

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

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3.2.6 TEST RESULTS (Band edge Requirements)

				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
					802.11b					
2400.00	67.76	43.80	4.91	25.90	-12.99	54.77	74.00	-19.23	PK	Vertical
2400.00	53.71	43.80	4.91	25.90	-12.99	40.72	54.00	-13.28	AV	Vertical
2400.00	69.38	43.80	4.91	25.90	-12.99	56.39	74.00	-17.61	PK	Horizontal
2400.00	53.62	43.80	4.91	25.90	-12.99	40.63	54.00	-13.37	AV	Horizontal
2483.50	69.14	43.80	5.12	25.90	-12.78	56.36	74.00	-17.64	PK	Vertical
2483.50	52.61	43.80	5.12	25.90	-12.78	39.83	54.00	-14.17	AV	Vertical
2483.50	69.59	43.80	5.12	25.90	-12.78	56.81	74.00	-17.19	PK	Horizontal
2483.50	52.70	43.80	5.12	25.90	-12.78	39.92	54.00	-14.08	AV	Horizontal
			/		802.11g					
2400.00	66.82	43.80	4.91	25.90	-12.99	53.83	74.00	-20.17	PK	Vertical
2400.00	52.28	43.80	4.91	25.90	-12.99	39.29	54.00	-14.71	AV	Vertical
2400.00	66.17	43.80	4.91	25.90	-12.99	53.18	74.00	-20.82	PK	Horizontal
2400.00	54.30	43.80	4.91	25.90	-12.99	41.31	54.00	-12.69	AV	Horizontal
2483.50	66.55	43.80	5.12	25.90	-12.78	53.77	74.00	-20.23	PK	Vertical
2483.50	53.63	43.80	5.12	25.90	-12.78	40.85	54.00	-13.15	AV	Vertical
2483.50	66.47	43.80	5.12	25.90	-12.78	53.69	74.00	-20.31	PK	Horizontal
2483.50	52.19	43.80	5.12	25.90	-12.78	39.41	54.00	-14.59	AV	Horizontal
					802.11n20					
2400.00	66.55	43.80	4.91	25.90	-12.99	53.56	74.00	-20.44	PK	Vertical
2400.00	52.61	43.80	4.91	25.90	-12.99	39.62	54.00	-14.38	AV	Vertical
2400.00	66.33	43.80	4.91	25.90	-12.99	53.34	74.00	-20.66	PK	Horizontal
2400.00	53.17	43.80	4.91	25.90	-12.99	40.18	54.00	-13.82	AV	Horizontal
2483.50	65.88	43.80	5.12	25.90	-12.78	53.10	74.00	-20.90	PK	Vertical
2483.50	52.58	43.80	5.12	25.90	-12.78	39.80	54.00	-14.20	AV	Vertical
2483.50	65.20	43.80	5.12	25.90	-12.78	52.42	74.00	-21.58	PK	Horizontal
2483.50	52.72	43.80	5.12	25.90	-12.78	39.94	54.00	-14.06	AV	Horizontal



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				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
	802.11n40									
2400.00	66.39	43.80	4.91	25.90	-12.99	53.40	74.00	-20.60	PK	Vertical
2400.00	52.38	43.80	4.91	25.90	-12.99	39.39	54.00	-14.61	AV	Vertical
2400.00	66.28	43.80	4.91	25.90	-12.99	53.29	74.00	-20.71	PK	Horizontal
2400.00	53.36	43.80	4.91	25.90	-12.99	40.37	54.00	-13.63	AV	Horizontal
2483.50	65.46	43.80	5.12	25.90	-12.78	52.68	74.00	-21.32	PK	Vertical
2483.50	52.57	43.80	5.12	25.90	-12.78	39.79	54.00	-14.21	AV	Vertical
2483.50	66.25	43.80	5.12	25.90	-12.78	53.47	74.00	-20.53	PK	Horizontal
2483.50	52.94	43.80	5.12	25.90	-12.78	40.16	54.00	-13.84	AV	Horizontal

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

Low measurement frequencies is range from 2300 to 2422 MHz, high measurement frequencies is range from 2452 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2300-2422 MHz and 2452-2500 MHz.



4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

4.1 APPLIED PROCEDURES / LIMIT

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	
Start/Stop Frequency	Lower Band Edge: 2300 to 2422 MHz	
	Upper Band Edge: 2452 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 Battery, 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

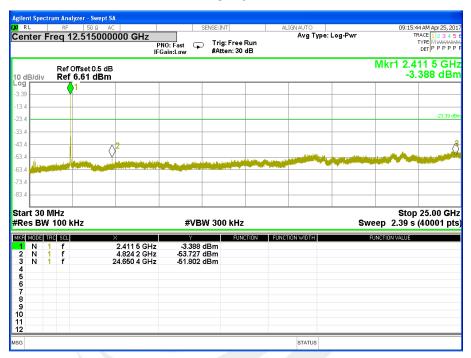
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



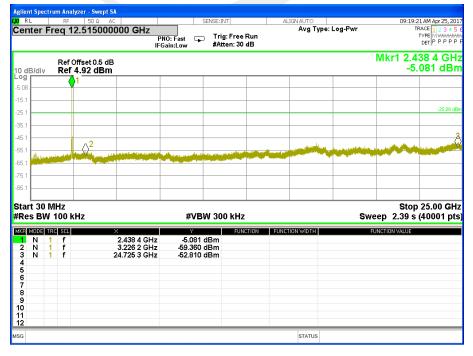
4.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX b Mode /CH01, CH06, CH11		

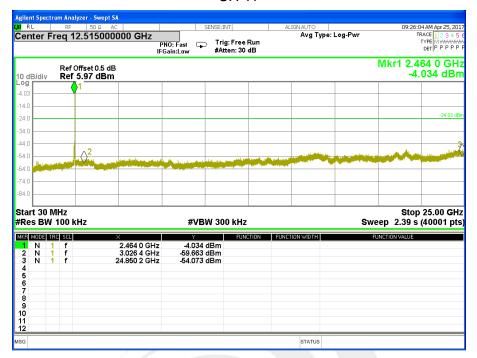
CH 01



CH 06



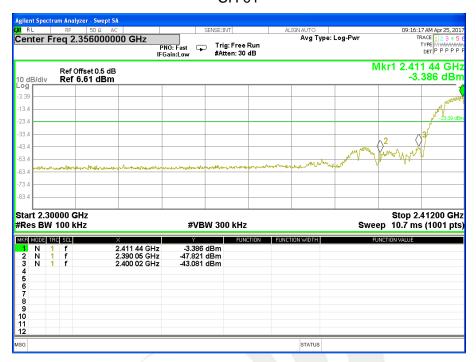






Band edge

CH 01





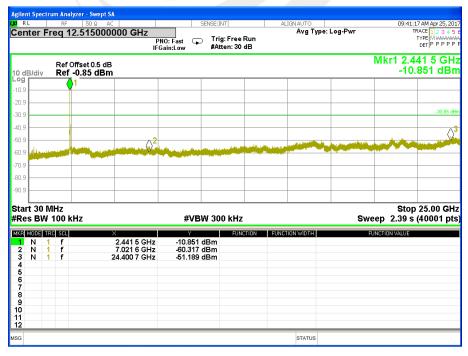


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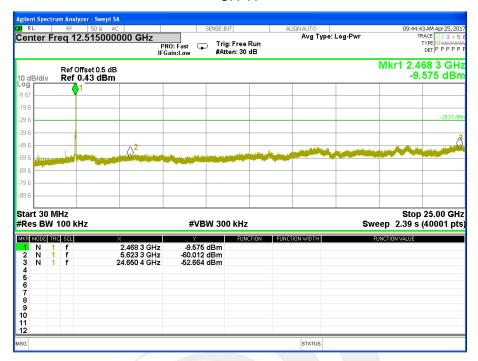
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC	
Test Mode:	TX g Mode /CH01, CH06, CH11			

CH 01





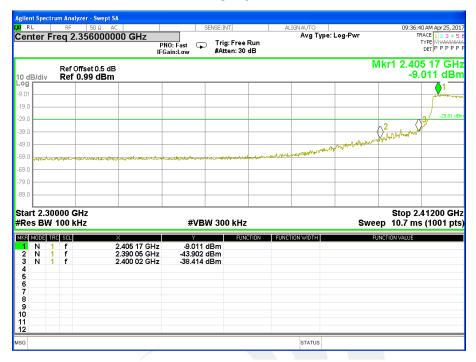






Band edge

CH 01



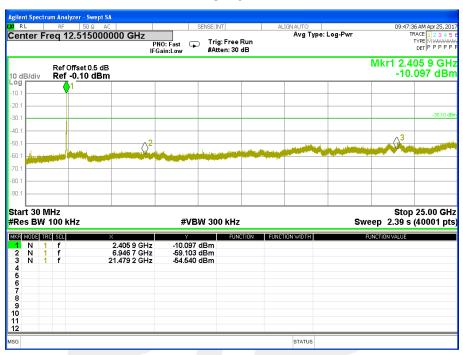


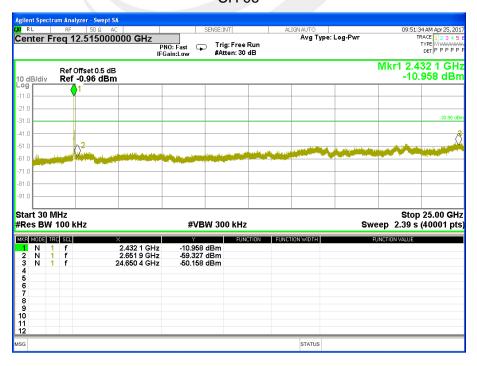


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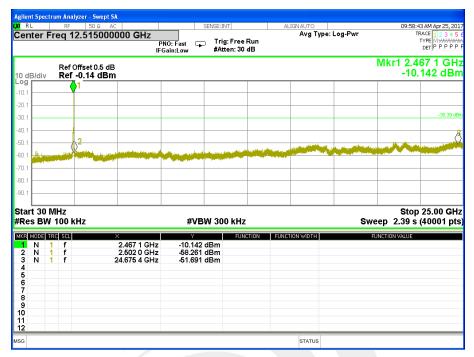
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC	
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11			

CH 01





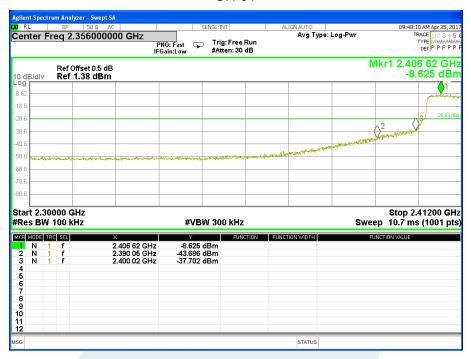






Band edge

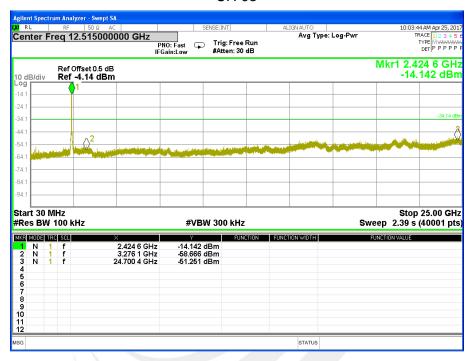
CH 01







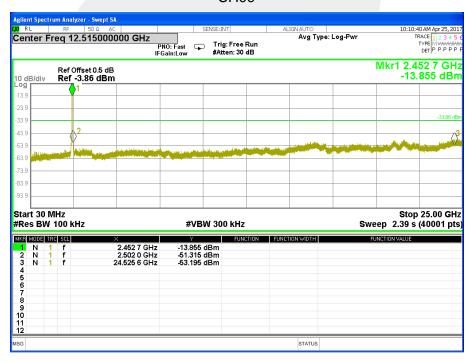
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC	
Test Mode:	TX n Mode(40M) /CH03, CH06, CH09			





CH06







Band edge

CH03







5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / 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%	
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC	
Test Mode:	TX b Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-23.344	≤8	PASS
2437 MHz	-24.744	≤8	PASS
2462 MHz	-23.692	≤8	PASS







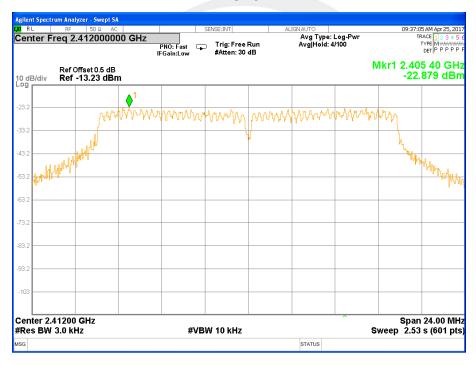




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Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC	
Test Mode:	TX g Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-22.879	≤8	PASS
2437 MHz	-25.103	≤8	PASS
2462 MHz	-23.789	≤8	PASS







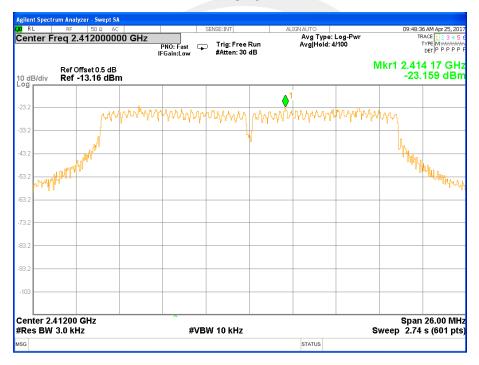




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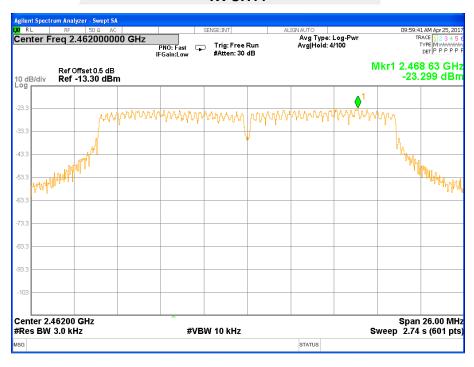
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX n Mode(20M) /CH01, CH06	, CH11	

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-23.159	≤8	PASS
2437 MHz	-24.355	≤8	PASS
2462 MHz	-23.299	≤8	PASS











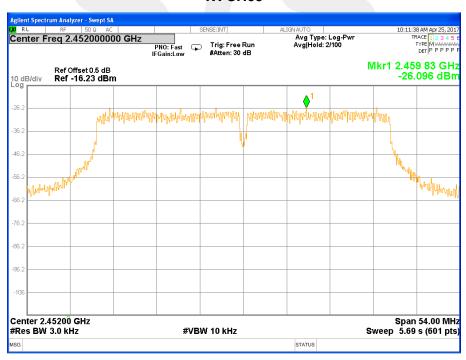
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage:	DC 5V From PC	
Test Mode:	TX n Mode(40M) /CH03, CH06, CH09			

Frequency	Power Density (dBm/3kHz)	Limit(dBm)	Result
2422 MHz	-26.460	≤8	PASS
2437 MHz	-26.477	≤8	PASS
2452 MHz	-26.096	≤8	PASS











6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / 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.

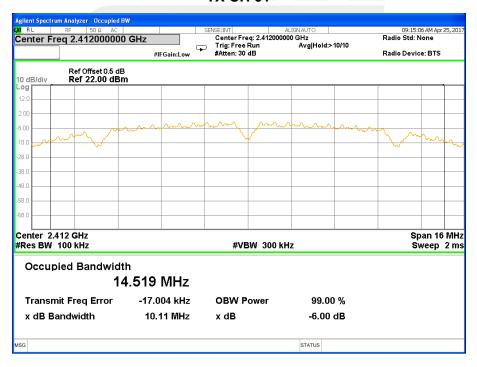


6.6 TEST RESULTS

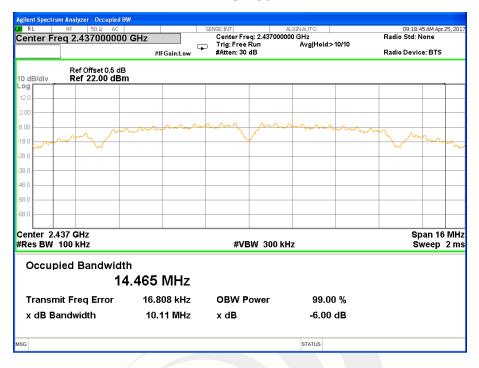
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX b Mode /CH01, CH06, CH11		

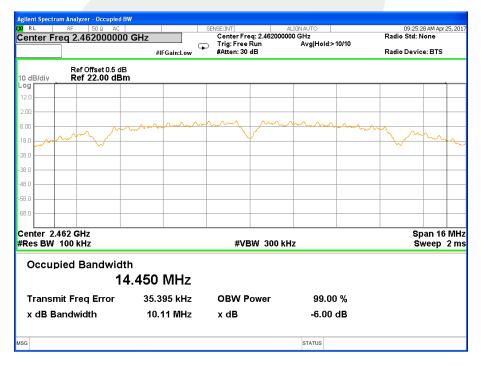
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.11	≥500KHz	PASS
2437 MHz	10.11	≥500KHz	PASS
2462 MHz	10.11	≥500KHz	PASS







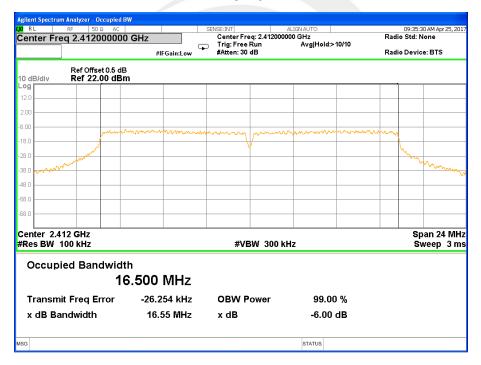




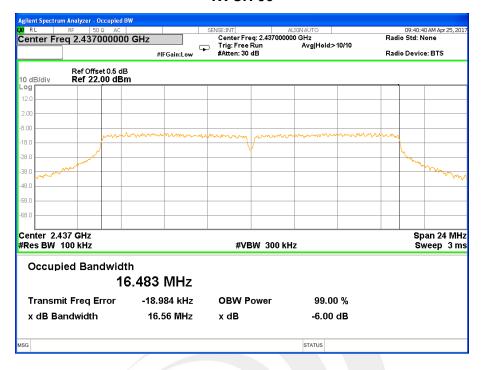
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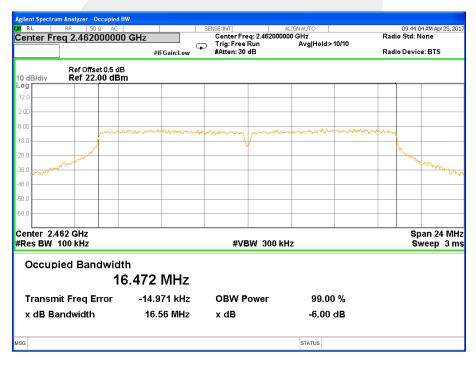
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	16.55	≥500KHz	PASS
2437 MHz	16.56	≥500KHz	PASS
2462 MHz	16.56	≥500KHz	PASS







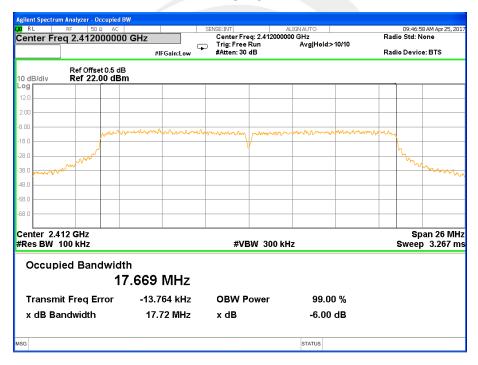




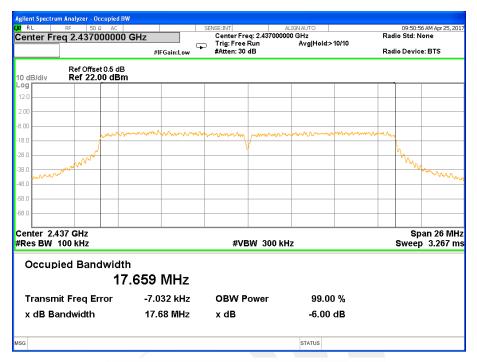
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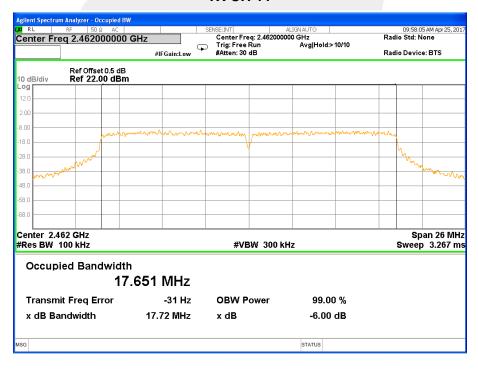
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	17.72	≥500KHz	PASS
2437 MHz	17.68	≥500KHz	PASS
2462 MHz	17.72	≥500KHz	PASS







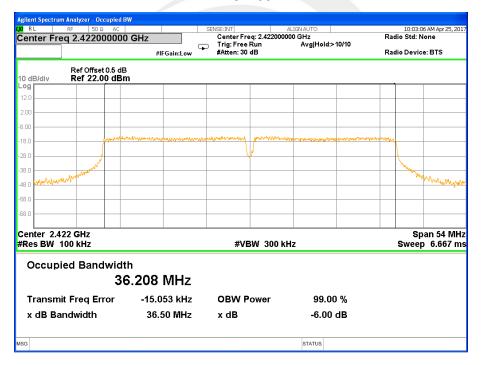




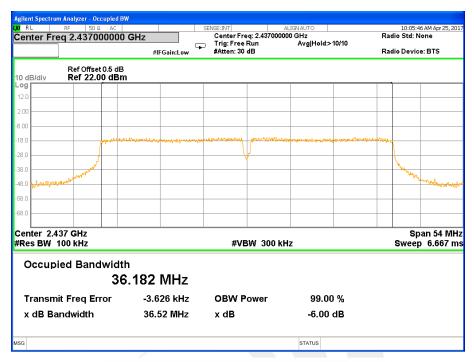
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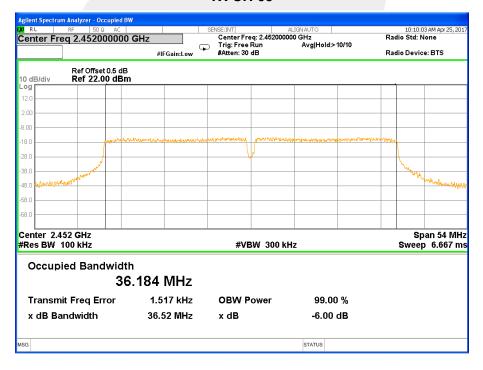
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V From PC
Test Mode:	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2422 MHz	36.50	≥500KHz	PASS
2437 MHz	36.52	≥500KHz	PASS
2452 MHz	36.52	≥500KHz	PASS











7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / 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 Sensor&PC

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

EUT	Power Sensor
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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.



7.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 5V From PC

TX 802.11b Mode						
Test	Frequency	Conducted Output Power		LIMIT		
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm		
CH01	2412	8.03	7.08	30		
CH06	2437	7.03	6.01	30		
CH11	2462	6.74	5.68	30		

TX 802.11g Mode					
Test	Frequency	Conducted Output Power		LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	6.27	5.17	30	
CH06	2437	5.33	4.26	30	
CH11	2462	5.19	4.15	30	

TX 802.11n20 Mode						
Test	Frequency	Conducted Output Power		LIMIT		
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm		
CH01	2412	6.24	4.23	30		
CH06	2437	5.26	3.17	30		
CH11	2462	5.08	3.03	30		

TX 802.11n40 Mode					
Test	Frequency	Conducted Output Power		LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH03	2422	4.55	2.59	30	
CH06	2437	4.69	5.77	30	
CH09	2452	4.26	2.14	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

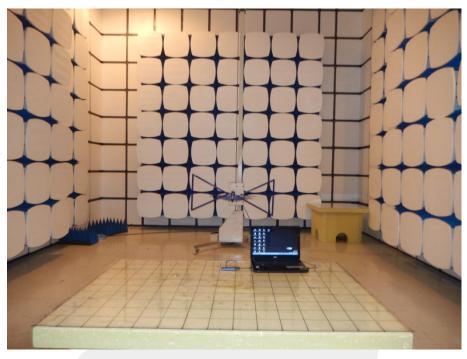
The EUT antenna is Internal PCB Antenna. It comply with the standard requirement.





APPENDIX - PHOTOS OF TEST SETUP







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