

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

STB

Model No.:XM-A208

FCC ID: 2ABQX-XMA208

Trademark:

REPORT NO: KAD131218032E

ISSUE DATE: February 11, 2014

Prepared for

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Prepared by

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TRF No: FCC 15.247/A Page 1 of 66 Report No.: KAD131218032E Rev1.0



VERIFICATION OF COMPLIANCE

Applicant:	Star View Technology Co., Ltd. Room 1706, China Youse Building, South Side of Shennan Rd., Chegongmiao, Futian District, Shenzhen City China.
Manufacturer:	ZHUHAI GOTECH ELECTRONIC TECHNOLOGY CO., LTD. 66 Yongda Road, Hongqi Town, Jinwan District, Zhuhai, Guangdong, China
Product Description:	STB
Model Number:	XM-A208
File Number:	KAD131218032E
Date of Test:	December 18, 2013 to January 14, 2014

We hereby certify that:

The above equipment was tested by DONGGUAN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247(2013).

The test results of this report relate only to the tested sample identified in this report.

Approved By

Sam Lv / Q.A. Manager DONGGUAN EMTEK CO., LTD.

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Modified History

Rev.	Summary	Date of Rev.	Report No.
V1.0	Original Report	2014-02-11	KAD131218032E

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APPENDIX I (PHOTOS OF EUT)(3 PAGES)



1. General Information

1.1 Product Description

A major technical descriptions of EUT is described as following:

A). Operation Frequency: 2412-2462MHz for 802.11b/g/n(H20);

2422-2452MHz for 802.11n(H40)

B). Modulation: OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n,

DSSS with DBPSK/DQPSK/CCK for 802.11b;

C). Number of Channel: 11 Channels for 802.11b/g/n(H20)

7 Channels for 802.11n(H40)

D). Antenna Type: PCB antenna

E). Antenna GAIN: -3dBi

F). Power Supply: DC 12V, 1A Come from Adapter

G). The information of Adapter:

Model: CS12F120100F

Input: AC 100-240V, 50/60Hz, 500mA

Output: DC 12V, 1.0A

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Note:

- 1. This device is included 802.11b, 802.11g and 802.11n(H20), 802.11n(H40) 2.4GHz transceiver function.
- 2. Test of channel was included the lowest middle and highest frequency in lowest data rate and to perform the test, then record on this report.

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system is compliance with Subpart B is authorized under a DOC procedure.



1.3 Test Methodology

All the test program has follow FCC new test procedure KDB558074 D01 v03r01, Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description

EMC Lab :

Accredited by FCC, Aug. 18, 2011 The Certificate Number is 247565

Accredited by Industry Canada, January 13, 2011

The Certificate Number is 9444A

Name of Firm : DONGGUAN EMTEK CO., LTD.

Site Location : No.281, Guantai Road, Nancheng District,

Dongguan, Guangdong, China



2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. Emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System





Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
1.	STB	S	XM-A208	2ABQX-XMA 208	N/A	EUT

Note:

(1) Unless otherwise denoted as EUT in [Remark] column, device(s) used in tested system is a support equipment.



3. Description of Test Modes

The Transmitter of EUT is an Internet Tablet and powered by host equipment; these is Digital Transmission system (DTS) and have modulation OFDM, DSSS, DBPSK, DQPSK, CCK, 16QAM, 64QAM. According exploratory test, EUT will have maximum output power in those data rate (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n: MCS0), so those data rate were used for all test.

For 802.11b/g/n(H20):

For lowest channel : 2412MHz
 For middle channel : 2437MHz
 For highest channel: 2462MHz

For 802.11n(H40):

1. For lowest channel: 2422MHz 2. For middle channel: 2437MHz 3. For highest channel: 2452MHz

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4. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.247(a)(2)	6dB bandwidth	Pass
§15.247(b)(3)	Max Peak output Power test	Pass
§15.247(e)	Power density	Pass
§15.247(d)	Band edge test	Pass
§15.207	AC Power Conducted Emission	Pass
§15.247(d), §15.209	Radiated Emission	Pass
§15.247(d)	Antenna Port Emission	Pass
§15.247(b)&§15.20 3	Antenna Application	Pass

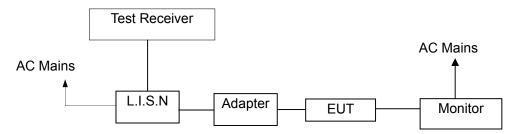


5. Conducted Emissions Test

5.1 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used

	Conducted Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/29/2013	05/28/2014		
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/29/2013	05/28/2014		
50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A	N/A		
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/29/2013	05/28/2014		
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/29/2013	05/28/2014		
I.S.N	Rohde & Schwarz	ENY22	1109.9508.0 2	05/29/2013	05/28/2014		

5.4 Conducted Emission Limit

Conducted Emission

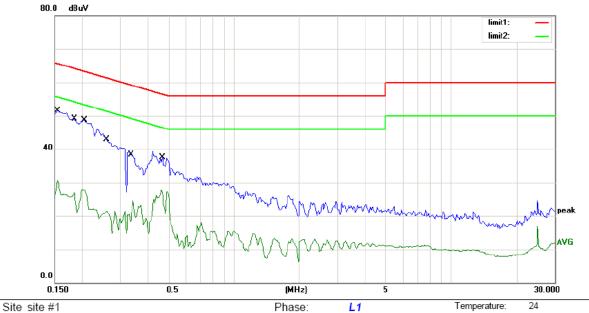
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



5.5 Measurement Result



Limit: (CE)FCC PART 15 class C_QP

AC 120V/60Hz Power:

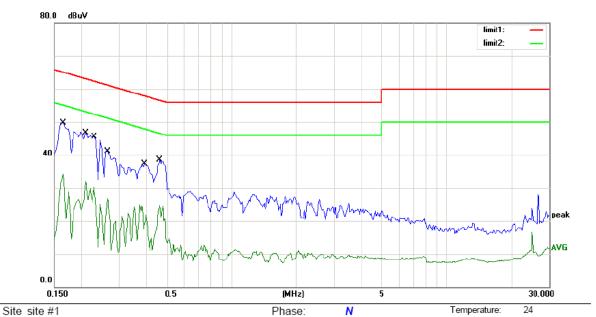
Humidity: 55 %

Mode: TX Note:

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1550	48.49	0.00	48.49	65.73	-17.24	QP	
2	0.1550	30.78	0.00	30.78	55.73	-24.95	AVG	
3	0.1850	46.14	0.00	46.14	64.26	-18.12	QP	
4	0.1850	27.06	0.00	27.06	54.26	-27.20	AVG	
5	0.2050	45.70	0.00	45.70	63.41	-17.71	QP	
6	0.2050	27.97	0.00	27.97	53.41	-25.44	AVG	
7	0.2615	39.58	0.00	39.58	61.38	-21.80	QP	
8	0.2615	21.45	0.00	21.45	51.38	-29.93	AVG	
9	0.3400	36.05	0.00	36.05	59.20	-23.15	QP	
10	0.3400	24.48	0.00	24.48	49.20	-24.72	AVG	
11	0.4700	35.56	0.00	35.56	56.51	-20.95	QP	
12	0.4700	27.87	0.00	27.87	46.51	-18.64	AVG	

^{*:}Maximum data x:Over limit !:over margin Comment: Factor build in receiver.





Limit: (CE)FCC PART 15 class C_QP

Mode: TX

Note:

Correct Reading Measure-Limit Over No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV dBuV dΒ Detector Comment QΡ 1 0.1650 46.75 0.00 46.75 65.21 -18.46 0.1650 34.22 0.00 34.22 55.21 -20.99 AVG 2 3 0.2100 QΡ 43.77 0.00 43.77 63.21 -19.44 0.2100 0.00 53.21 -21.21 32.00 32.00 AVG 4 0.2300 QΡ 5 42.59 0.00 42.59 62.45 -19.86 0.2300 30.22 0.00 30.22 52.45 -22.23 AVG 6 7 0.2650 61.27 -23.13 QP 38.14 0.00 38.14 8 0.2650 26.79 0.00 26.79 51.27 -24.48 AVG 9 0.3950 34.22 0.00 34.22 57.96 -23.74 QΡ 10 0.3950 21.84 0.00 21.84 47.96 -26.12 AVG 0.4650 34.53 0.00 34.53 56.60 -22.07 QΡ 11 24.73 12 0.4650 0.00 24.73 46.60 -21.87 AVG

Power:

AC 120V/60Hz

Humidity:

55 %

^{*:}Maximum data x:Over limit !:over margin Comment: Factor build in receiver.



6. Radiated Emission Test

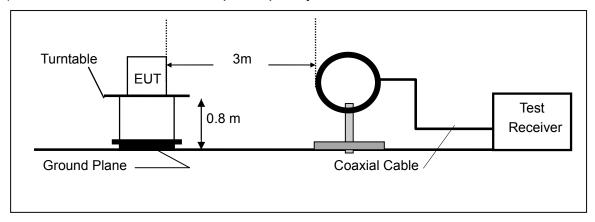
6.1 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured was complete.

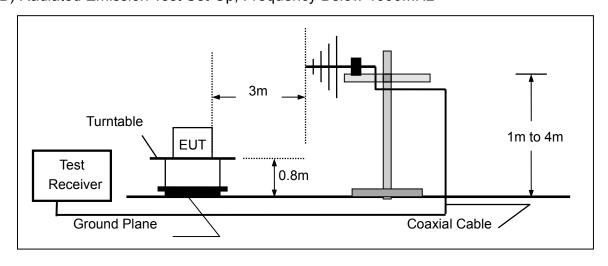
For emissions measurement set the bandwidth of the Spectrum's RBW at 1MHz 1GHz~25GHz and RBW 100 KHz below 1GHz.

6.2 Test SET-UP (Block Diagram of Configuration)

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



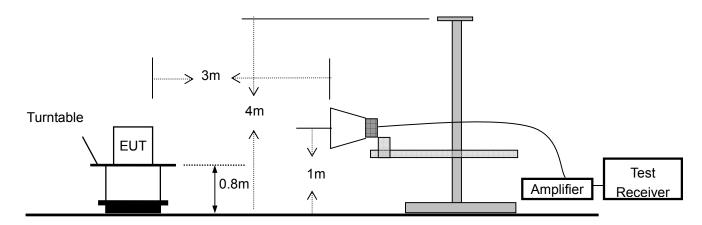
(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



6.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 29, 2013	05/28/2014
Pre-Amplifier	HP	8447D	2944A07999	May 29, 2013	05/28/2014
Bilog Antenna	Schwarzbeck	VULB9163	142	May 14, 2013	05/13/2014
Loop Antenna	ARA	PLA-1030/B	1029	May 14, 2013	05/13/2014
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 14, 2013	05/13/2014
Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 14, 2013	05/13/2014
Cable	Schwarzbeck	AK9513	ACRX1	May 29, 2013	05/28/2014
Cable	Rosenberger	N/A	FP2RX2	May 29, 2013	05/28/2014
Cable	Schwarzbeck	AK9513	CRPX1	May 29, 2013	05/28/2014
Cable	Schwarzbeck	AK9513	CRRX2	May 29, 2013	05/28/2014

6.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):



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

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	16.42 - 16.423 399.9 - 410	
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.



6.5 Measurement Result

Below 1GHz:

All the modulation modes were tested the data of the test mode are recorded in the following pages.

Operation Mode: TX Mode Test Date: December 22, 2013

Frequency Range: 9KHz \sim 300MHz Temperature: 28 $^{\circ}$ C Test Result: PASS Humidity: 60 $^{\circ}$ Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

Operation Mode: 802.11b TX Channel 1 Test Date: December 22, 2013

Frequency Range: $30\sim1000 \text{MHz}$ Temperature: $28\,^{\circ}\text{C}$ Test Result: PASS Humidity: $60\,^{\circ}\text{M}$ Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
107.6000	V	31.69	43.50	-11.81	QP
147.3700	V	30.28	43.50	-13.22	QP
215.2700	V	27.97	43.50	-15.53	QP
524.7000	V	36.66	46.00	-9.34	QP
647.8900	V	40.82	46.00	-5.18	QP
972.8400	V	40.33	54.00	-13.67	QP
107.6000	Н	31.60	43.50	-11.90	QP
215.2700	Н	31.45	43.50	-12.05	QP
475.2300	Н	32.81	46.00	-13.19	QP
524.7000	Н	38.27	46.00	-7.73	QP
864.2000	Н	37.22	46.00	-8.78	QP
972.8400	Н	37.68	54.00	-16.32	QP

Note: (1) All Readings are Peak Value.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11b TX Channel 6 Test Date: December 22, 2013

Frequency Range: $30\sim1000 \text{MHz}$ Temperature: $28\,^{\circ}\mathbb{C}$ Test Result: PASS Humidity: $60\,^{\circ}\mathbb{M}$ Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
117.3400	V	30.34	43.50	-13.16	QP
147.5600	V	28.56	43.50	-14.94	QP
215.4500	V	24.23	43.50	-19.27	QP
524.7600	V	36.66	46.00	-9.34	QP
647.3900	V	34.56	46.00	-11.44	QP
962.1200	V	35.33	54.00	-18.67	QP
107.1200	Н	37.34	43.50	-6.16	QP
201.5600	Н	31.41	43.50	-12.09	QP
475.3300	Н	32.63	46.00	-13.37	QP
524.6500	Н	38.24	46.00	-7.76	QP
824.8500	Н	37.25	46.00	-8.75	QP
942.4100	Н	34.56	54.00	-19.44	QP

Note: (1) All Readings are Peak Value.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Operation Mode: 802.11b TX Channel 11 Test Date: December 22, 2013

Frequency Range: $30\sim1000 MHz$ Temperature: $28\,^{\circ}\mathbb{C}$ Test Result: PASS Humidity: $60\,^{\circ}\mathbb{M}$ Measured Distance: 3m Test By: WOLF

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
101.2300	V	27.79	43.50	-15.71	QP
147.3700	V	30.45	43.50	-13.05	QP
225.3700	V	27.97	43.50	-15.53	QP
524.1300	V	36.66	46.00	-9.34	QP
647.6400	V	40.82	46.00	-5.18	QP
972.6500	V	34.23	54.00	-19.77	QP
108.1000	Н	31.60	43.50	-11.9	QP
215.3200	Н	26.45	43.50	-17.05	QP
475.2500	Н	32.81	46.00	-13.19	QP
524.3000	Н	38.27	46.00	-7.73	QP
864.6700	Н	37.45	46.00	-8.55	QP
955.5300	Н	35.23	54.00	-18.77	QP

Note:

- (1) All Readings are Peak Value.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) The average measurement was not performed when the peak measured data under the limit of average detection.
- (4) EUT stood on the table position is the worst case result in the report.



Above 1GHz:

Operation Mode: 802.11b Lowest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	evel(dBuV/m)	Li	mit	Over(dB)	
(MHz)				3m(dl	BuV/m)		
	H/V	PK	AV	PK	AV	PK	AV
2412.00	V	56.45	39.18	74.00	54.00	-17.55	-14.82
4824.00	V	52.73	35.68	74.00	54.00	-21.27	-18.32
7236.00	V	46.34	32.43	74.00	54.00	-27.66	-21.57
9648.00	V	50.31	35.63	74.00	54.00	-23.69	-18.37
12060.00	V	48.34	36.34	74.00	54.00	-25.66	-17.66
2412.00	Н	58.41	36.56	74.00	54.00	-15.59	-17.44
4824.00	Н	56.45	36.22	74.00	54.00	-17.55	-17.78
7236.00	Н	47.39	32.85	74.00	54.00	-26.61	-21.15
9648.00	Н	52.75	37.23	74.00	54.00	-21.25	-16.77
12060.00	Н	53.45	35.45	74.00	54.00	-20.55	-18.55

Operation Mode: 802.11b Middle Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m	Limit		Over(dB)	
(MHz)					3m(dBuV/m)		
	H/V	PK	AV	PK	AV	PK	AV
2437.00	V	55.60	34.45	74.00	54.00	-18.40	-19.55
4874.00	V	54.53	34.33	74.00	54.00	-19.47	-19.67
7311.00	V	45.15	32.05	74.00	54.00	-28.85	-21.95
9688.00	V	48.56	32.45	74.00	54.00	-25.44	-21.55
12185.00	V	48.14	35.52	74.00	54.00	-25.86	-18.48
2437.00	Н	59.56	34.56	74.00	54.00	-14.44	-19.44
4874.00	Н	56.60	34.68	74.00	54.00	-17.40	-19.32
7311.00	Н	53.93	32.43	74.00	54.00	-20.07	-21.57
9688.00	Н	50.45	34.64	74.00	54.00	-23.55	-19.36
12185.00	Н	49.67	36.34	74.00	54.00	-24.33	-17.66



Operation Mode: 802.11b Highest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m)	Limit		Over(dB)	
(MHz)				3m(dl	3uV/m)		
	H/V	PK	AV	PK	AV	PK	AV
2462.00	V	56.16	37.34	74.00	54.00	-17.84	-16.66
4924.00	V	53.16	36.65	74.00	54.00	-20.84	-17.35
7386.00	V	52.43	33.11	74.00	54.00	-21.57	-20.89
9848.00	V	50.67	40.56	74.00	54.00	-23.33	-13.44
12310.00	V	52.54	39.92	74.00	54.00	-21.46	-14.08
2462.00	Н	57.43	36.45	74.00	54.00	-16.57	-17.55
4924.00	Н	53.11	38.56	74.00	54.00	-20.89	-15.44
7386.00	Н	50.23	35.35	74.00	54.00	-23.77	-18.65
9848.00	Н	52.56	40.63	74.00	54.00	-21.44	-13.37
12310.00	Н	56.52	41.40	74.00	54.00	-17.48	-12.60

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

No others harmonics emissions are higher than 20 dB below the limits of 47 CFR Part 15.247.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20Db below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11g Lowest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m)	Li	mit	Over(Db)	
(MHz)					BuV/m)		
	H/V	PK	AV	PK	AV	PK	AV
2412.00	V	54.45	38.39	74.00	54.00	-19.55	-15.61
4824.00	V	51.34	37.11	74.00	54.00	-22.66	-16.89
7236.00	V	49.34	36.45	74.00	54.00	-24.66	-17.55
9648.00	V	51.34	37.81	74.00	54.00	-22.66	-16.19
12060.00	V	52.45	35.45	74.00	54.00	-21.55	-18.55
2412.00	Н	53.10	39.34	74.00	54.00	-20.90	-14.66
4824.00	Н	54.33	39.12	74.00	54.00	-19.67	-14.88
7236.00	Н	48.51	37.11	74.00	54.00	-25.49	-16.89
9648.00	Н	52.63	39.45	74.00	54.00	-21.37	-14.55
12060.00	Н	53.46	40.45	74.00	54.00	-20.54	-13.55

Operation Mode: 802.11g Middle Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m)	Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2437.00	V	53.28	35.34	74.00	54.00	-20.72	-18.66
4874.00	V	52.24	37.59	74.00	54.00	-21.76	-16.41
7311.00	V	44.54	33.34	74.00	54.00	-29.46	-20.66
9688.00	V	46.42	34.56	74.00	54.00	-27.58	-19.44
12185.00	V	45.14	35.34	74.00	54.00	-28.86	-18.66
2437.00	Н	56.45	36.65	74.00	54.00	-17.55	-17.35
4874.00	Н	54.41	35.34	74.00	54.00	-19.59	-18.66
7311.00	Н	52.37	35.67	74.00	54.00	-21.63	-18.33
9688.00	Н	46.46	36.20	74.00	54.00	-27.54	-17.8
12185.00	Н	47.45	34.23	74.00	54.00	-26.55	-19.77



Operation Mode: 802.11g Highest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m)	Li	Limit		(dB)
(MHz)				3m(dl	BuV/m)		
	H/V	PK	AV	PK	AV	PK	AV
2462.00	V	54.51	34.54	74.00	54.00	-19.49	-19.46
4924.00	V	51.11	35.65	74.00	54.00	-22.89	-18.35
7386.00	V	49.56	36.61	74.00	54.00	-24.44	-17.39
9848.00	V	54.83	39.45	74.00	54.00	-19.17	-14.55
12310.00	V	52.56	40.35	74.00	54.00	-21.44	-13.65
2462.00	Н	50.54	35.45	74.00	54.00	-23.46	-18.55
4924.00	Н	53.56	37.43	74.00	54.00	-20.44	-16.57
7386.00	Н	44.41	38.77	74.00	54.00	-29.59	-15.23
9848.00	Н	52.45	40.45	74.00	54.00	-21.55	-13.55
12310.00	Н	52.11	41.79	74.00	54.00	-21.89	-12.21

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11n(H20) Lowest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m	Li	mit	Over	(dB)
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2412.00	V	53.46	37.32	74.00	54.00	-20.54	-16.68
4824.00	V	52.34	35.32	74.00	54.00	-21.66	-18.68
7236.00	V	49.45	38.45	74.00	54.00	-24.55	-15.55
9648.00	V	50.40	36.34	74.00	54.00	-23.60	-17.66
12060.00	V	51.34	37.28	74.00	54.00	-22.66	-16.72
2412.00	Н	54.27	37.32	74.00	54.00	-19.73	-16.68
4824.00	Н	50.22	38.93	74.00	54.00	-23.78	-15.07
7236.00	Н	52.56	40.11	74.00	54.00	-21.44	-13.89
9648.00	Н	49.11	40.65	74.00	54.00	-24.89	-13.35
12060.00	Н	54.56	41.45	74.00	54.00	-19.44	-12.55

Operation Mode: 802.11n(H20) Middle Test Date: December 22, 2013

Freq.	Ant.Pol	Emission Level(dBuV/m)		Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
4874.00	V	46.42	33.89	74.00	54.00	-27.58	-20.11
7311.00	V	43.65	35.53	74.00	54.00	-30.35	-18.47
9688.00	V	45.29	37.14	74.00	54.00	-28.71	-16.86
12185.00	V	46.67	35.15	74.00	54.00	-27.33	-18.85
14682.00	V			74.00	54.00		
17179.00	V			74.00	54.00		
4874.00	Н	48.46	35.93	74.00	54.00	-25.54	-18.07
7311.00	Н	45.53	37.41	74.00	54.00	-28.47	-16.59
9688.00	Н	47.01	38.86	74.00	54.00	-26.99	-15.14
12185.00	Н	48.23	38.21	74.00	54.00	-25.77	-15.79
14682.00	Н			74.00	54.00		
17179.00	Н			74.00	54.00		



Operation Mode: 802.11n(H20) Highest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m)	Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2462.00	V	52.27	39.45	74.00	54.00	-21.73	-14.55
4924.00	V	51.56	37.45	74.00	54.00	-22.44	-16.55
7386.00	V	47.52	38.72	74.00	54.00	-26.48	-15.28
9848.00	V	48.56	40.66	74.00	54.00	-25.44	-13.34
12310.00	V	50.45	41.54	74.00	54.00	-23.55	-12.46
2462.00	V	51.28	37.29	74.00	54.00	-22.72	-16.71
4924.00	Н	52.45	39.44	74.00	54.00	-21.55	-14.56
7386.00	Н	49.56	40.57	74.00	54.00	-24.44	-13.43
9848.00	Н	52.73	34.56	74.00	54.00	-21.27	-19.44
12310.00	Н	51.55	43.53	74.00	54.00	-22.45	-10.47

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



Operation Mode: 802.11n(H40) Lowest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission Level(dBuV/m)		Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2412.00	V	54.28	43.57	74.00	54.00	-19.72	-10.43
4824.00	V	53.88	42.72	74.00	54.00	-20.12	-11.28
7236.00	V	55.34	47.15	74.00	54.00	-18.66	-6.85
9648.00	V	56.00	44.54	74.00	54.00	-18.00	-9.46
12060.00	V	57.74	45.08	74.00	54.00	-16.26	-8.92
2412.00	Н	53.24	43.29	74.00	54.00	-20.76	-10.71
4824.00	Н	55.47	44.33	74.00	54.00	-18.53	-9.67
7236.00	Н	57.41	48.61	74.00	54.00	-16.59	-5.39
9648.00	Н	57.31	45.85	74.00	54.00	-16.69	-8.15
12060.00	Н	58.90	46.24	74.00	54.00	-15.10	-7.76

Operation Mode: 802.11n(H40) Middle Test Date: December 22, 2013

Freq.	Ant.Pol	Emission Level(dBuV/m)		Limit		Over(dB)	
(MHz)				3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2437.00	V	54.18	39.27	74.00	54.00	-19.82	-14.73
4874.00	V	56.32	34.52	74.00	54.00	-17.68	-19.48
7311.00	V	53.54	35.94	74.00	54.00	-20.46	-18.06
9688.00	V	52.99	37.45	74.00	54.00	-21.01	-16.55
12185.00	V	55.07	35.35	74.00	54.00	-18.93	-18.65
2437.00	Н	55.18	38.72	74.00	54.00	-18.82	-15.28
4874.00	Н	56.34	39.63	74.00	54.00	-17.66	-14.37
7311.00	Н	53.33	41.81	74.00	54.00	-20.67	-12.19
9688.00	Н	53.45	42.76	74.00	54.00	-20.55	-11.24
12185.00	Н	56.65	43.41	74.00	54.00	-17.35	-10.59



Operation Mode: 802.11n(H40) Highest Test Date: December 22, 2013

Freq.	Ant.Pol	Emission L	.evel(dBuV/m)	Limit		Over(dB)	
(MHz)	-			3m(dBuV/m)			
	H/V	PK	AV	PK	AV	PK	AV
2462.00	V	53.24	47.28	74.00	54.00	-20.76	-6.72
4924.00	V	44.34	45.65	74.00	54.00	-29.66	-8.35
7386.00	V	45.54	42.34	74.00	54.00	-28.46	-11.66
9848.00	V	52.44	42.66	74.00	54.00	-21.56	-11.34
12310.00	V	52.62	38.61	74.00	54.00	-21.38	-15.39
2462.00	Н	53.69	46.28	74.00	54.00	-20.31	-7.72
4924.00	Н	51.80	41.34	74.00	54.00	-22.20	-12.66
7386.00	Н	53.69	42.71	74.00	54.00	-20.31	-11.29
9848.00	Н	54.23	43.25	74.00	54.00	-19.77	-10.75
12310.00	Н	53.45	44.43	74.00	54.00	-20.55	-9.57

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

No others harmonics emissions are higher than 20dB below the limits of 47 CFR Part 15.247.

Note:

- (1) All Readings are Peak Value and AV.
- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



7. 6dB Bandwidth Test

7.1 Measurement Procedure

The EUT was operating in IEEE 802.11b, 802.11g, 802.11n(H20), 802.11n(H40) mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function.

- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequency) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.2 Test SET-UP (Block Diagram of Configuration)



7.3 Measurement Equipment Used

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4407B	88156318	05/29/2013	05/28/2014

7.4 Measurement Results

6 Bandwidth Test Data Chart:

Refer to attached data chart.



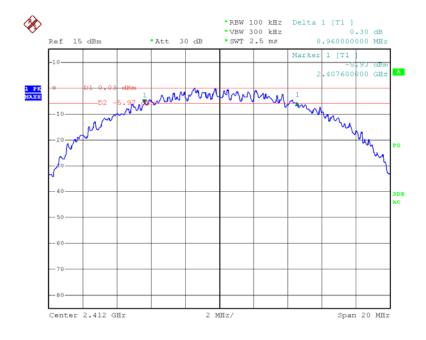
Spectrum Detector: PK Test Date: December 22, 2013

Test By: Jack Temperature : 28°C Test Result: PASS Humidity : 60%

Test	6	Limit/KU=)	Dogult			
Channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(KHz)	Result
Lowest	8.96	16.60	17.88	36.40		
Middle	10.16	16.60	17.88	36.48	>500	Pass
Highest	9.96	16.60	17.88	36.48		

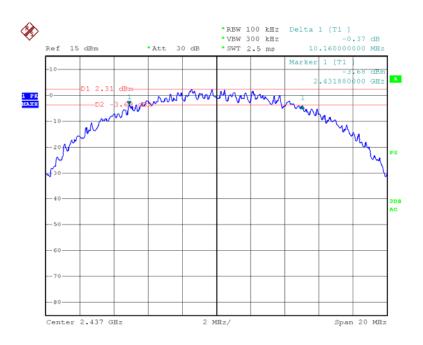
Test Plots as follow:

Test Mode: 802.11b

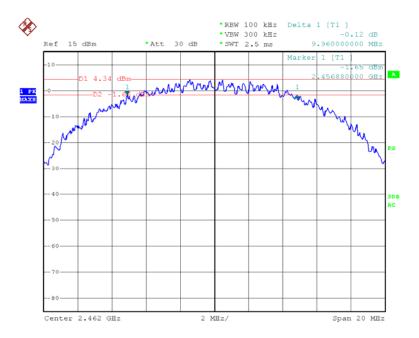


Lowest Channel





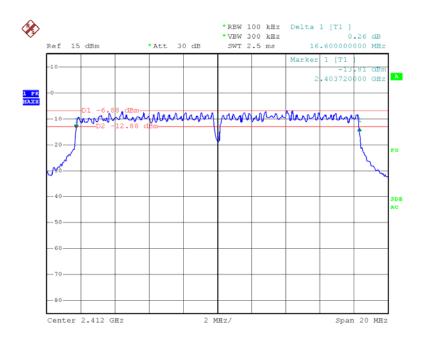
Middle Channel



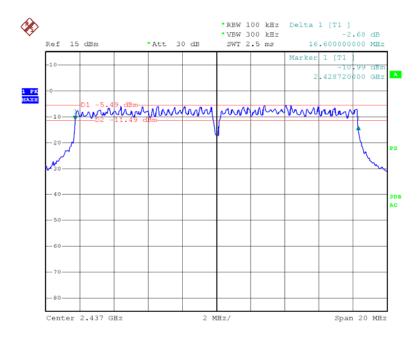
Highest Channel



Test Mode: 802.11g

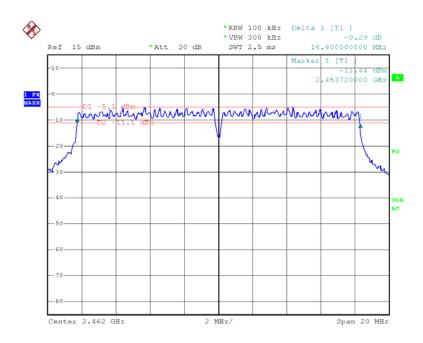


Lowest Channel

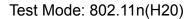


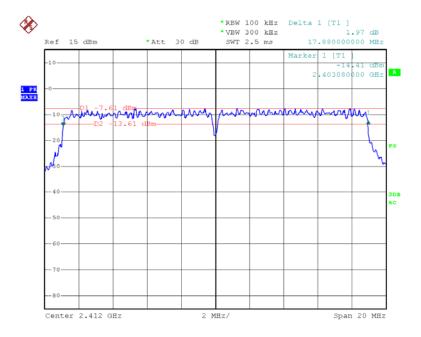
Middle Channel





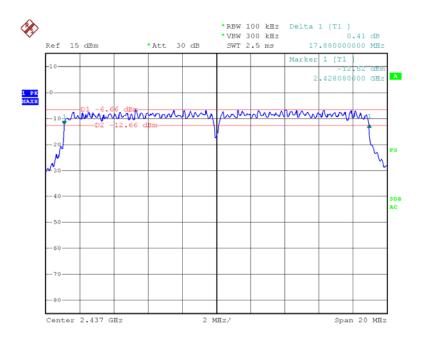
Highest Channel



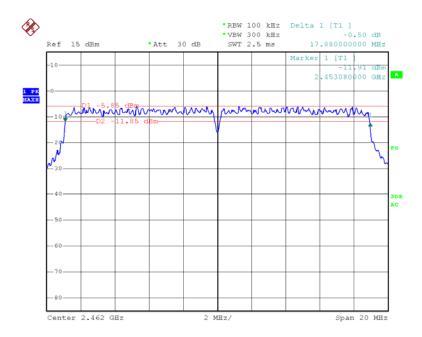


Lowest Channel





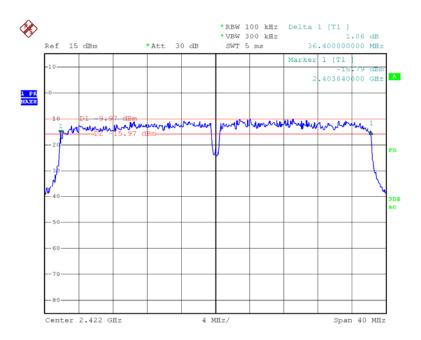
Middle Channel



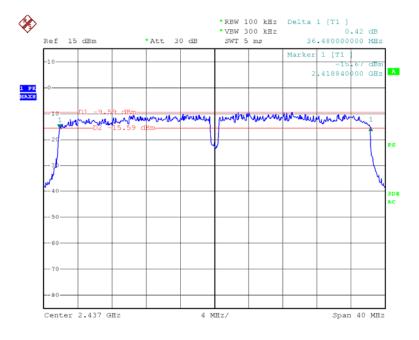
Highest Channel



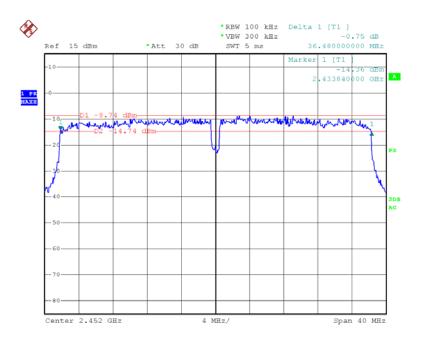
Test Mode: 802.11n(H40)



Lowest Channel



Middle Channel



Highest Channel



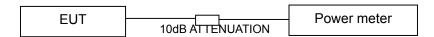
8. Maximum Peak Output Power Test

8.1 Measurement Procedure

The maximum peak conducted output power can be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast, average-responding diode type sensor.

- a. The Transmitter output (antenna port) was connected to the power meter.
- b. Turn on the EUT and power meter and then record the peak power value.
- c. Repeat above procedures on all channels needed to be tested.

8.2 Test SET-UP (Block Diagram of Configuration)



8.3 Measurement Equipment Used

EQUIPMENT	MODEL	SERIAL	LAST CAL.	CAL DUE.
TYPE	NUMBER	NUMBER		
Power meter	ML2495A	0824006	05/29/2013	05/28/2014
Power sensor	MA2411B	0738172	05/29/2013	05/28/2014

8.4 Peak Power output limit

The maximum peak power shall be less 1Watt.

8.5 Measurement Results

Spectrum Detector: PK Test Date: December 22, 2013

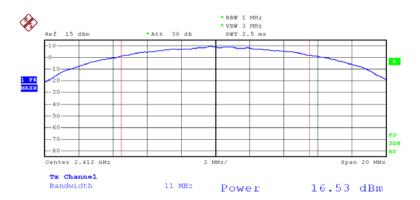
Test By: Jack Temperature : 28℃ Test Result: PASS Humidity : 60%

Test	Average Output Power (dBm)			Limit(dBm)	Docult	
Channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(dBm) Result	
Lowest	16.53	14.38	13.93	14.00		
Middle	7.84	15.77	15.11	14.73	30	Pass
Highest	19.81	16.28	16.30	14.79		

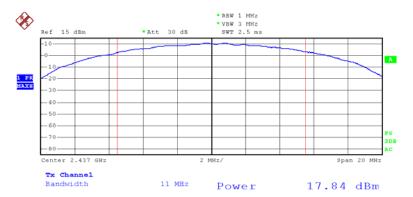


Test Plots as follow:

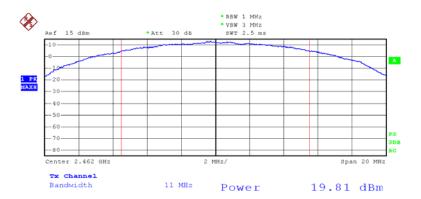
Test Mode: 802.11b



Lowest Channel



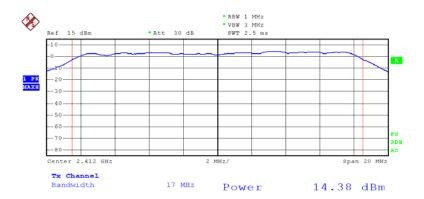
Middle Channel

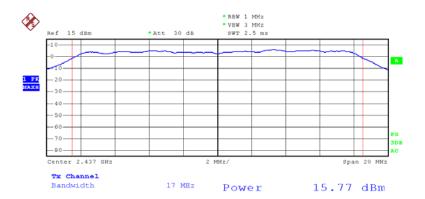


Highest Channel

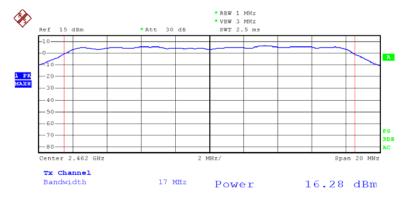


Test Mode: 802.11g





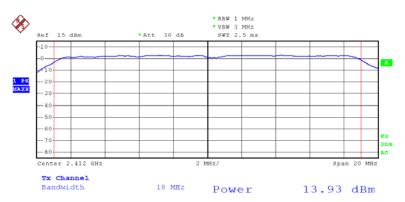
Middle Channel



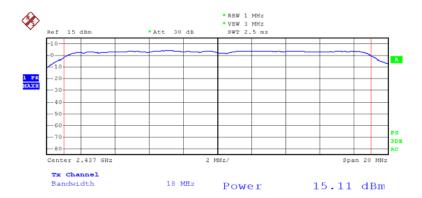
Highest Channel



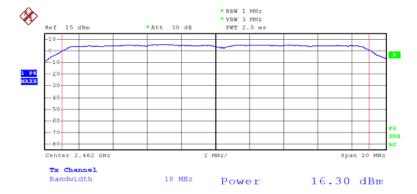
Test Mode: 802.11n(H20)



Lowest Channel



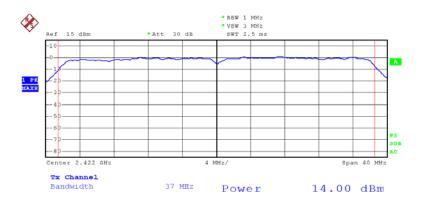
Middle Channel

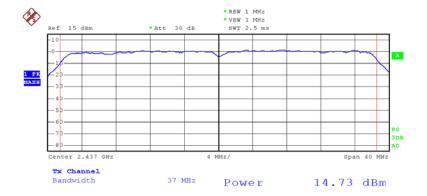


Highest Channel

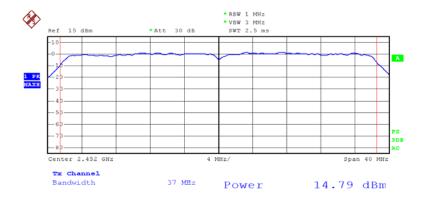


Test Mode: 802.11n(H40)





Middel Channel



Highest Channel



9. Band Edge Test

9.1 Measurement Procedure

- 1. The EUT was Operating in hopping mode or could be controlled its channel. Printed out test result from the spectrum by hard copy function.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane.
- 3. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. Repeat above procedures until all frequency measured were complete.

9.2 Test SET-UP (Block Diagram of Configuration)

As 6.2 Test set up (B) and (C)

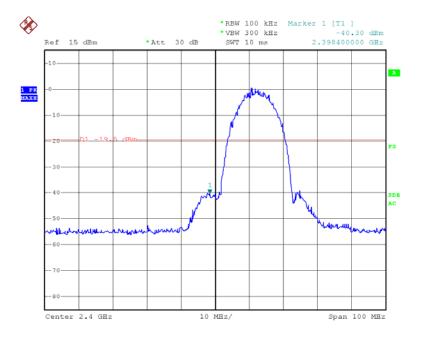
9.3 Measurement Equipment Used

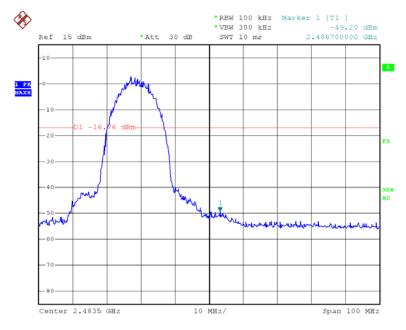
Same as 6.3 Radiated Emission Measurement.

9.4 Measurement Results



Test mode: 802.11b

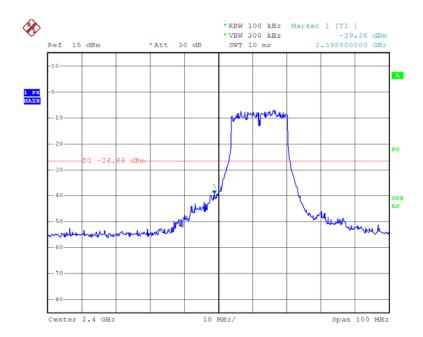


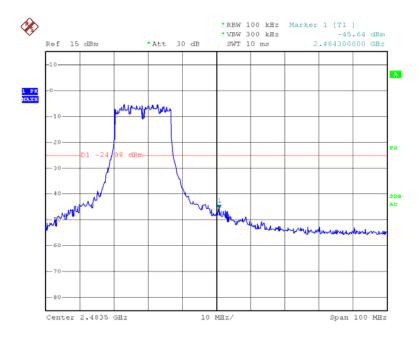


Highest Channel



Test mode: 802.11g

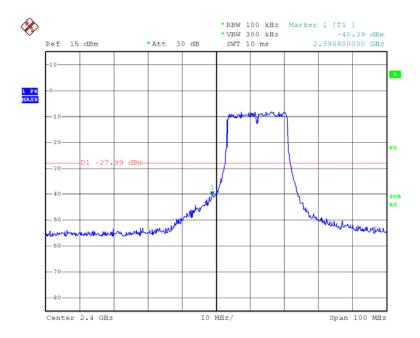


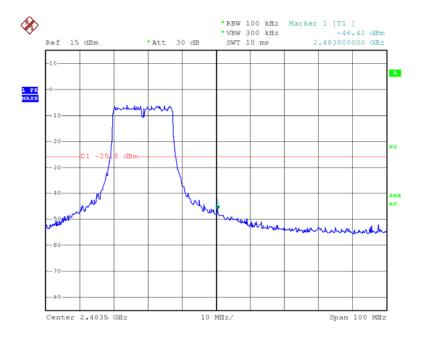


Highest Channel



Test mode: 802.11n(H20)

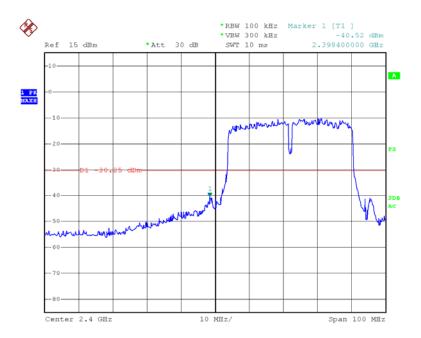


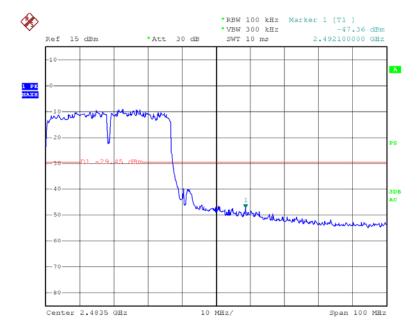


Highest Channel



Test mode: 802.11n(H40)





Highest Channel



10. Power Density

10.1Test Equipment

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4407B	88156318	05/29/2013	05/28/201 4

10.2Measuring Instruments and Setting

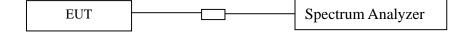
The following table is the setting of spectrum analyzer.

The following tenere to the	county or opposition analyzon
Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	Set the span to 1.5 times the DTS bandwidth.
RB	3kHz ≥RBW ≤100KHz
VB	3 x RBW
Detector	Peak
Trace	Max hold
Sweep Time	Automatic

10.3Test Procedures

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set analyzer center frequency to DTS channel center frequency.
- c. Set the analyzer span to a minimum of 1.5 times the DTS bandwidth.
- d. Set the RBW \geq 3 kHz. Set the VBW \geq 3 x RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level.

10.4Block Diagram of Test Setup



10.5Limit

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3 kHz bandwidth.



10.6Test Result

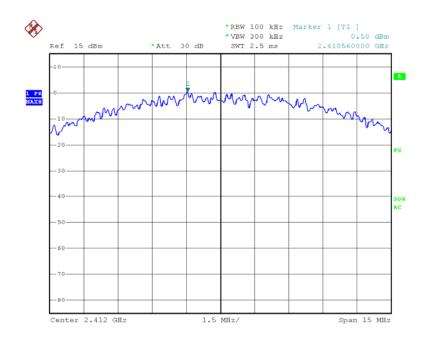
Spectrum Detector: PK Test Date: December 22, 2013

Test By: Jack Temperature : 28℃ Test Result: PASS Humidity : 60%

Test	Power Spectral Density(dBm)			Limit(dDm)	Result	
Channel	802.11b 802.11g 802.11n(H20) 802.11n(H40) Limit(dBm)				Result	
Lowest	0.50	-6.66	-7.99	-10.25		
Middle	1.97	-5.74	-6.82	-8.86	8	Pass
Highest	3.24	-4.98	-5.80	-9.45		

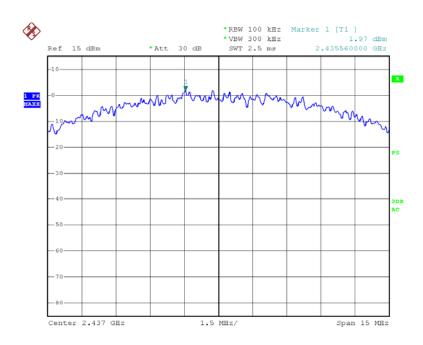
Test Plots as follow:

Test Mode: 802.11b

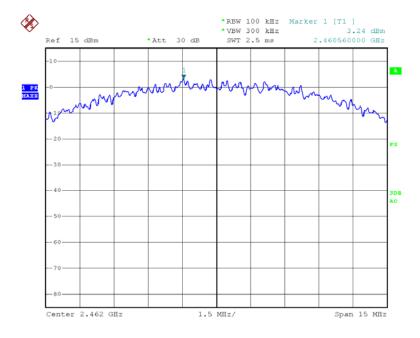


Lowest Channel





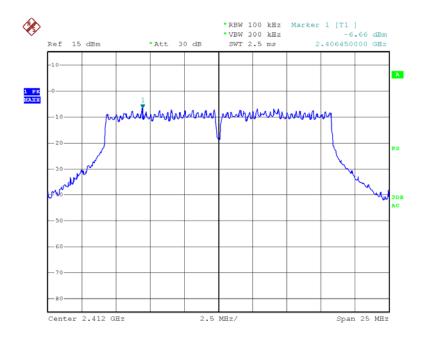
Middle Channel

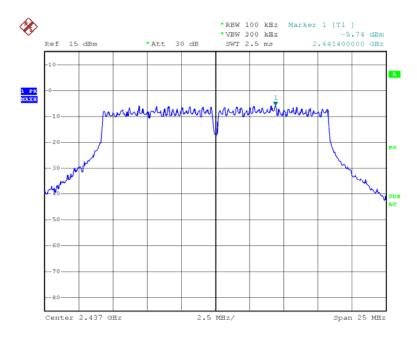


Hihest Channel



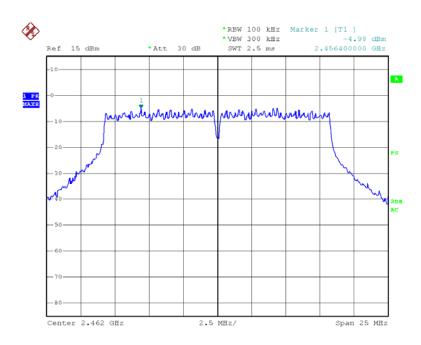
Test Mode: 802.11g



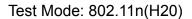


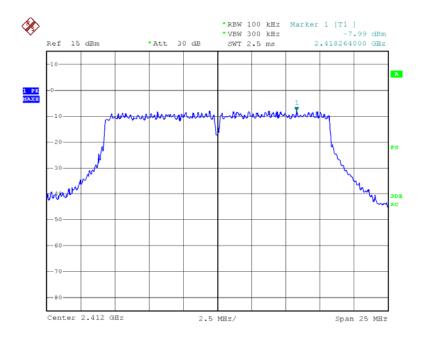
Middle Channel





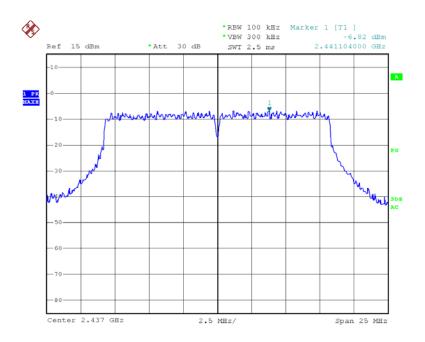
Highest Channel



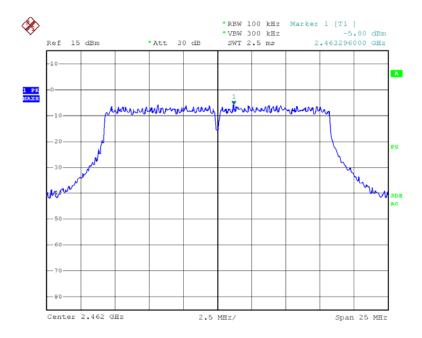


Lowest Channel





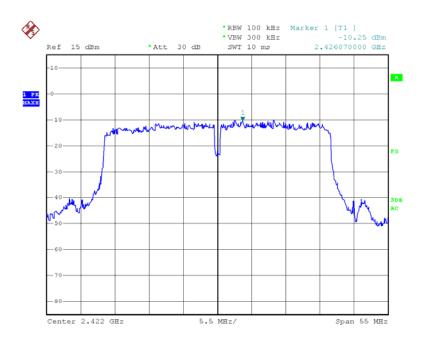
Middle Channel



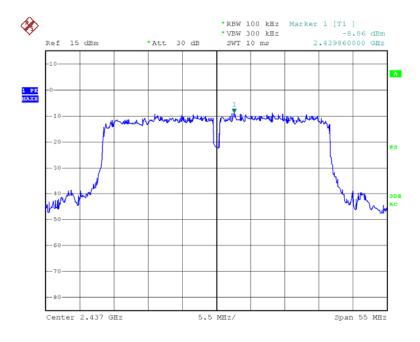
Highest Channel



Test Mode: 802.11n(H40)

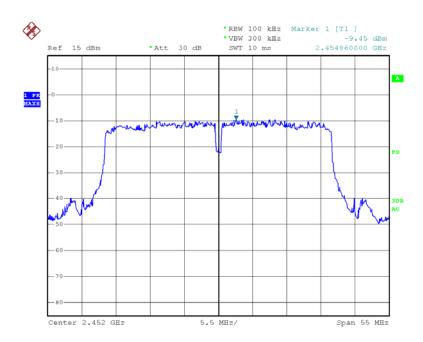


Lowest Channel



Middel Channel





Highest Channel



11. Antenna Port Emission

11.1Test Equipment

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	Agilent	E4407B	88156318	05/29/2013	05/28/2014

11.2Measuring Instruments and Setting

The following table is the setting of spectrum analyzer.

Spectrum analyzer	Setting
Attenuation	Auto
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max hold

11.3Test Procedures

The conducted spurious emissions were measured conducted using a spectrum analyzer at low, Middle, and high channels, the limit was determined by attenuation 20dB of the RF peak power output.

11.4Block Diagram of Test setup

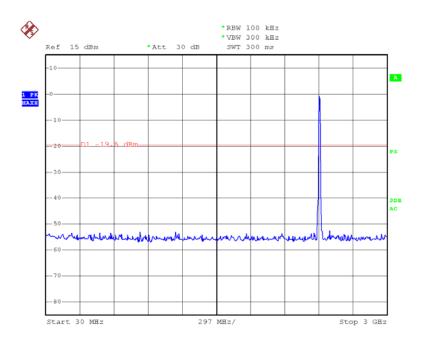
EUT		Spectrum Analyzer
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11.5Test Result

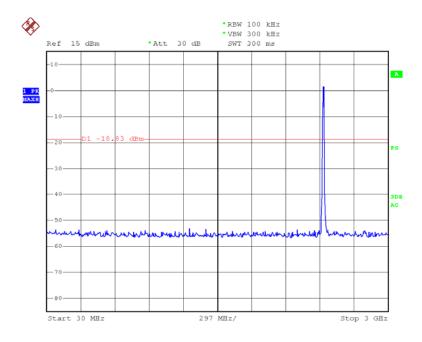
PASS.



Test Mode: 802.11b

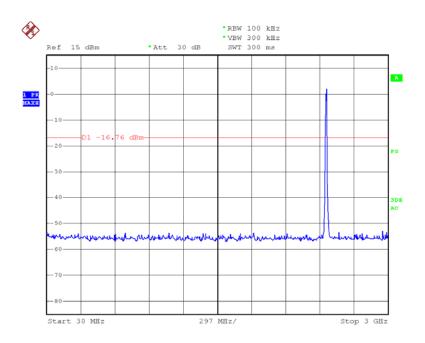


Lowest Channel



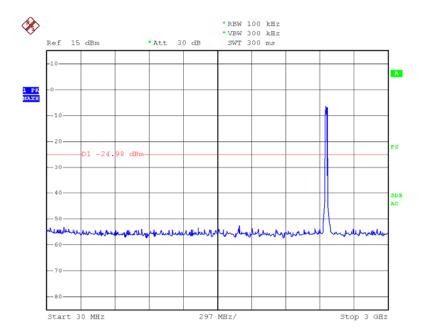
Middel Channel





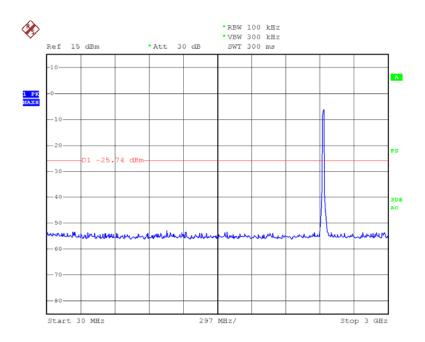
Highest Channel



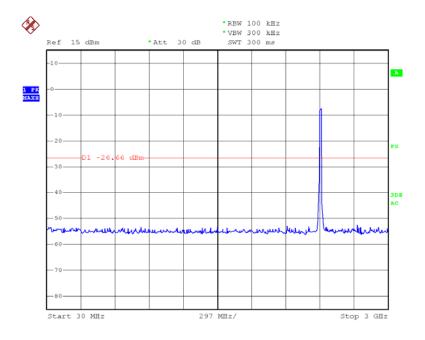


Lowest Channel





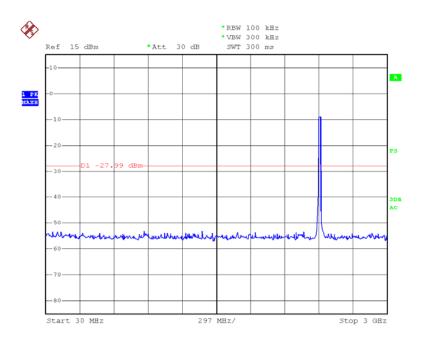
Middle Channel



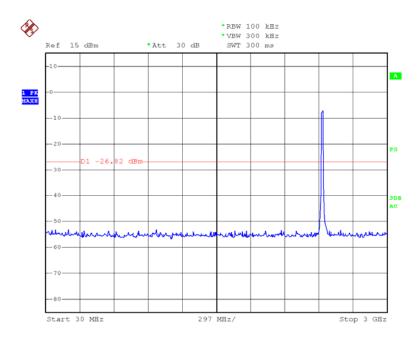
Highest Channel



Test Mode: 802.11n(H20)

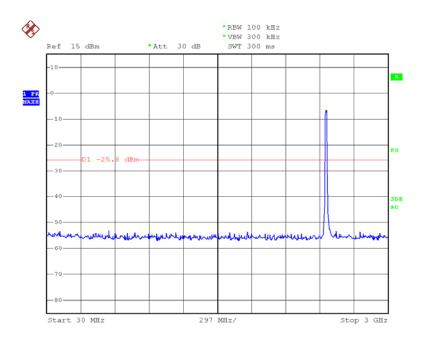


Lowest Channel

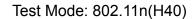


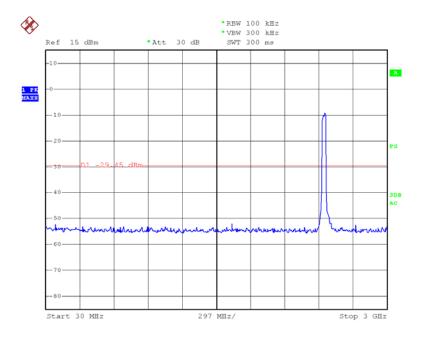
Middle Channel





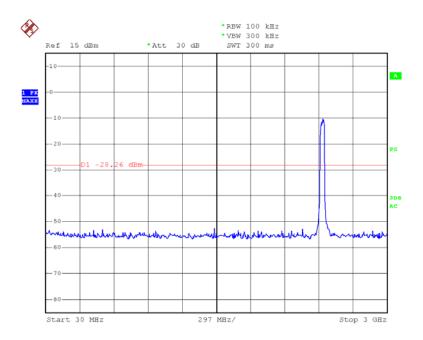
Highest Channel



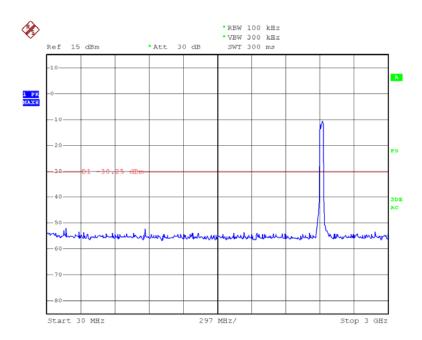


Lowest Channel





Middle Channel



Highest Channel



12. Antenna Application

12.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

12.2Result

The EUT'S antenna is PCB antenna. The antenna's gain is -3 dBi and meets the requirement.



APPENDIX I (PHOTOS OF EUT)















