

FCC TEST REPORT (15.407)

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RELEASE CONTROL RECORD

ISSUE NO.	SSUE NO. REASON FOR CHANGE	
RF111207C05A-1	Original release	Jun. 18, 2012



1. CERTIFICATION

PRODUCT: Dual Band 3T3R Router

MODEL: EIR900

BRAND: EnGenius

APPLICANT: EnGenius Technologies

TESTED: Nov. 03 ~ Dec. 08, 2011

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10-2009

The above equipment (Model: EIR900) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Jun. 18, 2012

Pettie Chen / Specialist

APPROVED BY : Jun. 18, 2012

Gary Chang / Technical Manager



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)						
STANDARD SECTION TEST TYPE AND LIMIT		RESULT	REMARK			
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -10.27dB at 0.150MHz.			
15.407(b/1/2/3) Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz		PASS	Meet the requirement of limit. Minimum passing margin is -0.4dB at 4920.0MHz.			
15.407(a/1/2/3) Peak Transmit Power		PASS	Meet the requirement of limit.			
15.407(a)(6) Peak Power Excursion		PASS	Meet the requirement of limit.			
15.407(a/1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.			
15.407(g) Frequency Stability		PASS	Meet the requirement of limit.			
15.203 Antenna Requirement		PASS	Antenna connector is I-PEX not a standard connector.			

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
	30MHz ~ 200MHz	3.34 dB
Padiated emissions	200MHz ~1000MHz	3.35 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Dual Band 3T3R Router		
MODEL NO.	EIR900		
POWER SUPPLY	12Vdc (Adapter)		
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK		
MODULATION TECHNOLOGY	OFDM		
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 450.0Mbps		
OPERATING FREQUENCY	5180.0 ~ 5240.0MHz		
NUMBER OF CHANNEL	4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)		
OUTPUT POWER	32.0mW		
ANTENNA TYPE	PCB Dipole antenna with 2.0dBi gain		
ANTENNA CONNECTOR	I-PEX		
DATA CABLE	NA		
I/O PORTS	Refer to user's manual		
ACCESSORY DEVICES	Adapter		

NOTE:

1. The frequency bands used in this EUT are listed as follows:

Frequency Band (MHz)	2412~2462	5180~5240	5745~5825
802.11b	\checkmark		
802.11g	\checkmark		
802.11a		\checkmark	√
802.11n (20MHz)	$\sqrt{}$	\checkmark	\checkmark
802.11n (40MHz)	\checkmark	\checkmark	\checkmark

2. The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and three receivers.

MODULATION MODE	TX FUNCTION
802.11b	3TX
802.11g	3TX
802.11a	3TX
802.11n (20MHz)	3TX
802.11n (40MHz)	3TX

3. The EUT was powered by the following adapter:

BRAND:	Powertron
MODEL: PA1045-120HUB	
INPUT:	100-240Vac, 50-60Hz, 1.0A
OUTPUT:	12Vdc, 3.3A
POWER LINE:	1.5m non-shielded cable without core

- 4. Due Tx have been evaluated and product continue compliance with the relevant rules.
- 5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



3.2 DESCRIPTION OF TEST MODES

4 channels are provided for 802.11a, 802.11n (20MHz):

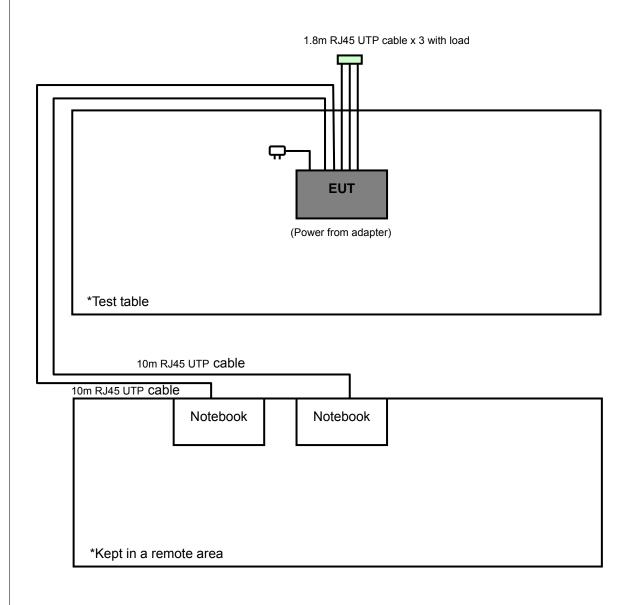
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180MHz	44	5220MHz
40	5200MHz	48	5240MHz

2 channels are provided for 802.11n (40MHz):

CHANNEL	CHANNEL FREQUENCY		FREQUENCY
38	5190MHz	46	5230MHz



3.2.1 CONFIGURATION OF SYSTEM UNDER TEST





3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE	APPLICABLE 10				DESCRIPTION
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
-	V	V	V	V	-

Where

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 48	36, 40, 48	OFDM	BPSK	6.0
802.11n (20MHz)	36 to 48	36, 40, 48	OFDM	BPSK	7.2
802.11n (40MHz)	38 to 46	38, 46	OFDM	BPSK	15.0

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL		MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 48	36	OFDM	BPSK	6.0

POWER LINE CONDUCTED EMISSION TEST:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL		MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 48	36	OFDM	BPSK	6.0



BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 48	36, 48	OFDM	BPSK	6.0
802.11n (20MHz)	36 to 48	36, 48	OFDM	BPSK	7.2
802.11n (40MHz)	38 to 46	38, 46	OFDM	BPSK	15.0

ANTENNA PORT CONDUCTED MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	36 to 48	36, 40, 48	OFDM	BPSK	6.0
802.11n (20MHz)	36 to 48	36, 40, 48	OFDM	BPSK	7.2
802.11n (40MHz)	38 to 46	38, 46	OFDM	BPSK	15.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	David Huang
RE<1G	25deg. C, 68%RH	120Vac, 60Hz	Kay Wu
PLC	25deg. C, 65%RH	120Vac, 60Hz	Anderson Hong
APCM	25deg. C, 65%RH	120Vac, 60Hz	David Huang



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)
789033 D01 General UNII Test Procedures v01r01
ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D531	CN-0XM006-48643-8 1U-2973	QDS-BRCM1020
2	NOTEBOOK	DELL	Latitude E5520	NA	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	10m RJ45 UTP cable
2	10m RJ45 UTP cable

NOTE: 1. All power cords of the above support units are non shielded (1.8m).

2. Item 1, 2 as a communication partner to transfer data.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

FREQUENCIES (MHz)	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m) *NOTE 3	
(IVITIZ)	PK	PK	
5150 ~ 5250	-27	68.3	

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

E =
$$\frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts).



4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100212	Aug. 02, 2011	Aug. 01, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSP 40	100041	Jul. 21, 2011	Jul. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 13, 2011	Apr. 12, 2012
HORN Antenna SCHWARZBECK	9120D	209	Aug. 25, 2011	Aug. 24, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 27, 2010	Dec. 26, 2011
Preamplifier Agilent	8447D	2944A10633	Oct. 29, 2011	Oct. 28, 2012
Preamplifier Agilent	8449B	3008A01964	Oct. 29, 2011	Oct. 28, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295014/4	Aug. 19, 2011	Aug. 18, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	Aug. 19, 2011	Aug. 18, 2012
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA
High Speed Peak Power Meter	ML2495A	0842014	Apr. 26, 2011	Apr. 25, 2012
Power Sensor	MA2411B	0738404	Apr. 26, 2011	Apr. 25, 2012
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 29, 2011	Oct. 28, 2012

NOTE:

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in HwaYa Chamber 3.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 988962.
- 5. The IC Site Registration No. is IC 7450F-3.



4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

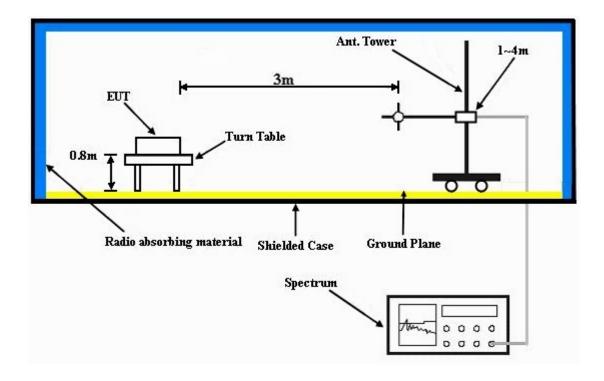
No deviation.

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4.1.6 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.7 EUT OPERATING CONDITION

- a. Placed the EUT on the testing table.
- b. Prepared notebooks to act as communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".



4.1.8 TEST RESULTS

ABOVE 1GHz DATA: 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	59.0 PK	74.0	-15.0	1.02 H	86	22.00	37.00
2	4920.00	53.4 AV	54.0	-0.6	1.02 H	86	16.40	37.00
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	79	20.80	37.30
4	5040.00	52.1 AV	54.0	-1.9	1.00 H	79	14.80	37.30
5	5150.00	53.9 PK	74.0	-20.1	1.00 H	82	16.40	37.50
6	5150.00	40.7 AV	54.0	-13.3	1.00 H	82	3.20	37.50
7	*5180.00	112.1 PK			1.10 H	88	74.60	37.50
8	*5180.00	98.8 AV			1.10 H	88	61.30	37.50
9	#10360.00	57.2 PK	68.3	-11.1	1.00 H	360	8.90	48.30
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	52.6 PK	74.0	-21.4	1.00 V	97	15.60	37.00
2	4920.00	47.5 AV	54.0	-6.5	1.00 V	97	10.50	37.00
3	5040.00			40.0	4.04.1/	106	17.70	37.30
		55.0 PK	74.0	-19.0	1.04 V	106	17.70	37.30
4	5040.00	55.0 PK 47.1 AV	74.0 54.0	-19.0 -6.9	1.04 V 1.04 V	106	9.80	37.30
4 5	5040.00 5150.00							
<u> </u>		47.1 AV	54.0	-6.9	1.04 V	106	9.80	37.30
5	5150.00	47.1 AV 54.2 PK	54.0 74.0	-6.9 -19.8	1.04 V 1.00 V	106 105	9.80 16.70	37.30 37.50
5	5150.00 5150.00	47.1 AV 54.2 PK 38.3 AV	54.0 74.0	-6.9 -19.8	1.04 V 1.00 V 1.00 V	106 105 105	9.80 16.70 0.80	37.30 37.50 37.50

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	58.5 PK	74.0	-15.5	1.02 H	86	21.50	37.00
2	4920.00	53.4 AV	54.0	-0.6	1.02 H	86	16.40	37.00
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	80	20.80	37.30
4	5040.00	51.7 AV	54.0	-2.3	1.00 H	80	14.40	37.30
5	*5200.00	109.3 PK			1.09 H	82	71.80	37.50
6	*5200.00	97.4 AV			1.09 H	82	59.90	37.50
7	#10400.00	56.6 PK	68.3	-11.7	1.00 H	25	8.20	48.40
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	52.8 PK	74.0	-21.2	1.00 V	95	15.80	37.00
2	4920.00	47.1 AV	54.0	-6.9	1.00 V	95	10.10	37.00
3	5040.00	52.4 PK	74.0	-21.6	1.03 V	70	15.10	37.30
4	5040.00	44.6 AV	54.0	-9.4	1.03 V	70	7.30	37.30
5	*5200.00	108.8 PK			1.10 V	102	71.30	37.50
6	*5200.00	98.5 AV			1.10 V	102	61.00	37.50
7	#10400.00	55.3 PK	68.3	-13.0	1.00 V	35	6.90	48.40

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	59.0 PK	74.0	-15.0	1.02 H	86	22.00	37.00
2	4920.00	53.6 AV	54.0	-0.4	1.02 H	86	16.60	37.00
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	80	20.80	37.30
4	5040.00	52.1 AV	54.0	-1.9	1.00 H	80	14.80	37.30
5	*5240.00	108.7 PK			1.00 H	270	71.10	37.60
6	*5240.00	96.5 AV			1.00 H	270	58.90	37.60
7	5440.00	54.8 PK	74.0	-19.2	1.00 H	103	16.90	37.90
8	5440.00	48.2 AV	54.0	-5.8	1.00 H	103	10.30	37.90
9	#10480.00	56.5 PK	68.3	-11.8	1.00 H	258	8.00	48.50
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	52.6 PK	74.0	-21.4	1.00 V	96	15.60	37.00
2	4920.00	46.7 AV	54.0	-7.3	1.00 V	96	9.70	37.00
3	5040.00	54.6 PK	74.0	-19.4	1.04 V	105	17.30	37.30
4	5040.00	48.0 AV	54.0	-6.0	1.04 V	105	10.70	37.30
5	*5240.00	107.7 PK			1.00 V	111	70.10	37.60
6	*5240.00	96.9 AV			1.00 V	111	59.30	37.60
7	5440.00	51.9 PK	74.0	-22.1	1.00 V	6	14.00	37.90
8	5440.00	45.7 AV	54.0	-8.3	1.00 V	6	7.80	37.90
9	#10480.00	49.6 PK	68.3	-18.7	1.00 V	65	1.10	48.50

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

		ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	4920.00	58.8 PK	74.0	-15.2	1.02 H	86	21.80	37.00		
2	4920.00	53.5 AV	54.0	-0.5	1.02 H	86	16.50	37.00		
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	80	20.80	37.30		
4	5040.00	52.1 AV	54.0	-1.9	1.00 H	80	14.80	37.30		
5	5150.00	54.0 PK	74.0	-20.0	1.00 H	83	16.50	37.50		
6	5150.00	39.6 AV	54.0	-14.4	1.00 H	83	2.10	37.50		
7	*5180.00	110.7 PK			1.10 H	88	73.20	37.50		
8	*5180.00	98.4 AV			1.10 H	88	60.90	37.50		
9	#10360.00	57.2 PK	68.3	-11.1	1.00 H	25	8.90	48.30		
	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	/ & TEST DI	STANCE: V ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	T 3 M RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
NO .	FREQ. (MHz) 4920.00	EMISSION LEVEL	LIMIT		ANTENNA	TABLE ANGLE	RAW VALUE	FACTOR		
	` ,	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m)		
1	4920.00	EMISSION LEVEL (dBuV/m) 53.6 PK	LIMIT (dBuV/m)	MARGIN (dB) -20.4	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	FACTOR (dB/m) 37.00		
1 2	4920.00 4920.00	EMISSION LEVEL (dBuV/m) 53.6 PK 47.3 AV	LIMIT (dBuV/m) 74.0 54.0	-20.4 -6.7	ANTENNA HEIGHT (m) 1.00 V 1.00 V	TABLE ANGLE (Degree) 96	RAW VALUE (dBuV) 16.60 10.30	FACTOR (dB/m) 37.00 37.00		
1 2 3	4920.00 4920.00 5040.00	EMISSION LEVEL (dBuV/m) 53.6 PK 47.3 AV 54.2 PK	LIMIT (dBuV/m) 74.0 54.0 74.0	-20.4 -6.7 -19.8	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 96 96 114	RAW VALUE (dBuV) 16.60 10.30 16.90	FACTOR (dB/m) 37.00 37.00 37.30		
1 2 3 4	4920.00 4920.00 5040.00 5040.00	EMISSION LEVEL (dBuV/m) 53.6 PK 47.3 AV 54.2 PK 46.8 AV	LIMIT (dBuV/m) 74.0 54.0 74.0 54.0	-20.4 -6.7 -19.8 -7.2	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 96 96 114 114	RAW VALUE (dBuV) 16.60 10.30 16.90 9.50	FACTOR (dB/m) 37.00 37.00 37.30 37.30		
1 2 3 4 5	4920.00 4920.00 5040.00 5040.00 5150.00	EMISSION LEVEL (dBuV/m) 53.6 PK 47.3 AV 54.2 PK 46.8 AV 57.5 PK	LIMIT (dBuV/m) 74.0 54.0 74.0 54.0 74.0	-20.4 -6.7 -19.8 -7.2 -16.5	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 96 96 114 114 87	RAW VALUE (dBuV) 16.60 10.30 16.90 9.50 20.00	FACTOR (dB/m) 37.00 37.00 37.30 37.30 37.50		
1 2 3 4 5 6	4920.00 4920.00 5040.00 5040.00 5150.00	EMISSION LEVEL (dBuV/m) 53.6 PK 47.3 AV 54.2 PK 46.8 AV 57.5 PK 39.7 AV	LIMIT (dBuV/m) 74.0 54.0 74.0 54.0 74.0	-20.4 -6.7 -19.8 -7.2 -16.5	ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V	TABLE ANGLE (Degree) 96 96 114 114 87 87	RAW VALUE (dBuV) 16.60 10.30 16.90 9.50 20.00 2.20	FACTOR (dB/m) 37.00 37.00 37.30 37.30 37.50 37.50		

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	59.0 PK	74.0	-15.0	1.02 H	86	22.00	37.00
2	4920.00	53.5 AV	54.0	-0.5	1.02 H	86	16.50	37.00
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	78	20.80	37.30
4	5040.00	51.8 AV	54.0	-2.2	1.00 H	78	14.50	37.30
5	*5200.00	108.2 PK			1.09 H	82	70.70	37.50
6	*5200.00	96.6 AV			1.09 H	82	59.10	37.50
7	#10400.00	56.9 PK	68.3	-11.4	1.00 H	74	8.50	48.40
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4920.00	53.5 PK	74.0	-20.5	1.00 V	95	16.50	37.00
2	4920.00	47.7 AV	54.0	-6.3	1.00 V	95	10.70	37.00
3	5040.00	54.5 PK	74.0	-19.5	1.13 V	103	17.20	37.30
4	5040.00	47.8 AV	54.0	-6.2	1.13 V	103	10.50	37.30
5	*5200.00	108.8 PK			1.00 V	104	71.30	37.50
6	*5200.00	97.1 AV			1.00 V	104	59.60	37.50
7	#10400.00	56.4 PK	68.3	-11.9	1.00 V	60	8.00	48.40

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	4920.00	58.7 PK	74.0	-15.3	1.02 H	86	21.70	37.00	
2	4920.00	53.5 AV	54.0	-0.5	1.02 H	86	16.50	37.00	
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	80	20.80	37.30	
4	5040.00	52.0 AV	54.0	-2.0	1.00 H	80	14.70	37.30	
5	*5240.00	108.3 PK			1.00 H	270	70.70	37.60	
6	*5240.00	97.0 AV			1.00 H	270	59.40	37.60	
7	5440.00	55.3 PK	74.0	-18.7	1.00 H	102	17.40	37.90	
8	5440.00	48.5 AV	54.0	-5.5	1.00 H	102	10.60	37.90	
9	#10480.00	56.6 PK	68.3	-11.7	1.00 H	78	8.10	48.50	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
NO .	FREQ. (MHz) 4920.00	LEVEL		MARGIN (dB) -20.0		ANGLE		FACTOR	
	` ,	LEVEL (dBuV/m)	(dBuV/m)	- (")	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)	
1	4920.00	LEVEL (dBuV/m) 54.0 PK	(dBuV/m) 74.0	-20.0	HEIGHT (m) 1.00 V	ANGLE (Degree)	(dBuV)	FACTOR (dB/m) 37.00	
1 2	4920.00 4920.00	LEVEL (dBuV/m) 54.0 PK 46.9 AV	(dBuV/m) 74.0 54.0	-20.0 -7.1	1.00 V 1.00 V	ANGLE (Degree) 96 96	(dBuV) 17.00 9.90	FACTOR (dB/m) 37.00 37.00	
1 2 3	4920.00 4920.00 5040.00	LEVEL (dBuV/m) 54.0 PK 46.9 AV 56.7 PK	(dBuV/m) 74.0 54.0 74.0	-20.0 -7.1 -17.3	1.00 V 1.00 V 1.03 V	96 96 105	(dBuV) 17.00 9.90 19.40	FACTOR (dB/m) 37.00 37.00 37.30	
1 2 3 4	4920.00 4920.00 5040.00 5040.00	LEVEL (dBuV/m) 54.0 PK 46.9 AV 56.7 PK 47.5 AV	(dBuV/m) 74.0 54.0 74.0	-20.0 -7.1 -17.3	1.00 V 1.00 V 1.03 V 1.03 V	96 96 105	(dBuV) 17.00 9.90 19.40 10.20	FACTOR (dB/m) 37.00 37.00 37.30 37.30	
1 2 3 4 5	4920.00 4920.00 5040.00 5040.00 *5240.00	LEVEL (dBuV/m) 54.0 PK 46.9 AV 56.7 PK 47.5 AV 107.6 PK	(dBuV/m) 74.0 54.0 74.0	-20.0 -7.1 -17.3	1.00 V 1.00 V 1.03 V 1.03 V 1.03 V	96 96 105 105	(dBuV) 17.00 9.90 19.40 10.20 70.00	FACTOR (dB/m) 37.00 37.00 37.30 37.30 37.60	
1 2 3 4 5	4920.00 4920.00 5040.00 5040.00 *5240.00	LEVEL (dBuV/m) 54.0 PK 46.9 AV 56.7 PK 47.5 AV 107.6 PK 96.4 AV	(dBuV/m) 74.0 54.0 74.0 54.0	-20.0 -7.1 -17.3 -6.5	1.00 V 1.00 V 1.03 V 1.03 V 1.00 V 1.00 V	96 96 105 105 104	(dBuV) 17.00 9.90 19.40 10.20 70.00 58.80	FACTOR (dB/m) 37.00 37.00 37.30 37.30 37.60 37.60	

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	4920.00	58.8 PK	74.0	-15.2	1.02 H	86	21.80	37.00			
2	4920.00	53.5 AV	54.0	-0.5	1.02 H	86	16.50	37.00			
3	5040.00	58.0 PK	74.0	-16.0	1.00 H	80	20.70	37.30			
4	5040.00	52.0 AV	54.0	-2.0	1.00 H	80	14.70	37.30			
5	5150.00	66.3 PK	74.0	-7.7	1.00 H	85	28.80	37.50			
6	5150.00	50.7 AV	54.0	-3.3	1.00 H	85	13.20	37.50			
7	*5190.00	108.8 PK			1.07 H	86	71.30	37.50			
8	*5190.00	98.7 AV			1.07 H	86	61.20	37.50			
9	#10380.00	56.4 PK	68.3	-11.9	1.00 H	85	8.10	48.30			

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	4920.00	53.4 PK	74.0	-20.6	1.00 V	96	16.40	37.00			
2	4920.00	47.1 AV	54.0	-6.9	1.00 V	96	10.10	37.00			
3	5040.00	56.0 PK	74.0	-18.0	1.04 V	101	18.70	37.30			
4	5040.00	48.3 AV	54.0	-5.7	1.04 V	101	11.00	37.30			
5	5150.00	46.2 PK	74.0	-27.8	1.04 V	99	8.70	37.50			
6	5150.00	46.2 AV	54.0	-7.8	1.04 V	99	8.70	37.50			
7	*5190.00	108.6 PK			1.00 V	103	71.10	37.50			
8	*5190.00	97.7 AV			1.00 V	103	60.20	37.50			
9	#10380.00	58.0 PK	68.3	-10.3	1.00 V	101	9.70	48.30			

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	4920.00	59.0 PK	74.0	-15.0	1.02 H	86	22.00	37.00			
2	4920.00	53.5 AV	54.0	-0.5	1.02 H	86	16.50	37.00			
3	5040.00	58.1 PK	74.0	-15.9	1.00 H	80	20.80	37.30			
4	5040.00	52.2 AV	54.0	-1.8	1.00 H	80	14.90	37.30			
5	*5230.00	108.9 PK			1.00 H	266	71.30	37.60			
6	*5230.00	98.4 AV			1.00 H	266	60.80	37.60			
7	5440.00	54.2 PK	74.0	-19.8	1.00 H	88	16.30	37.90			
8	5440.00	48.1 AV	54.0	-5.9	1.00 H	88	10.20	37.90			
9	#10460.00	57.1 PK	68.3	-11.2	1.00 H	88	8.60	48.50			

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	4920.00	53.2 PK	74.0	-20.8	1.00 V	96	16.20	37.00			
2	4920.00	46.6 AV	54.0	-7.4	1.00 V	96	9.60	37.00			
3	5040.00	56.3 PK	74.0	-17.7	1.03 V	106	19.00	37.30			
4	5040.00	48.4 AV	54.0	-5.6	1.03 V	106	11.10	37.30			
5	*5230.00	108.0 PK			1.00 V	109	70.40	37.60			
6	*5230.00	96.9 AV			1.00 V	109	59.30	37.60			
7	5440.00	55.0 PK	74.0	-19.0	1.05 V	106	17.10	37.90			
8	5440.00	47.6 AV	54.0	-6.4	1.05 V	106	9.70	37.90			
9	#10460.00	61.3 PK	68.3	-7.0	1.00 V	106	12.80	48.50			

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. "#":The radiated frequency is out the restricted band.



BELOW 1GHz WORST-CASE DATA: 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL		
CHANNEL	Channel 36	FREQUENCY RANGE	Below 1000MHz	
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak	
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	105.73	29.6 QP	43.5	-13.9	3.00 H	91	18.70	10.90		
2	125.17	30.6 QP	43.5	-12.9	3.00 H	55	17.70	12.90		
3	166.00	31.1 QP	43.5	-12.4	2.00 H	268	17.10	14.00		
4	249.60	36.0 QP	46.0	-10.0	1.00 H	79	23.00	13.00		
5	337.10	37.1 QP	46.0	-8.9	1.00 H	112	21.10	16.00		
6	399.31	33.5 QP	46.0	-12.5	1.00 H	226	15.90	17.60		
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	55.18	36.2 QP	40.0	-3.8	1.00 V	19	22.40	13.80		
2	107.67	34.4 QP	43.5	-9.1	1.00 V	94	23.30	11.10		
3	125.17	32.0 QP	43.5	-11.5	1.00 V	322	19.10	12.90		
4	166.00	31.2 QP	43.5	-12.3	1.00 V	148	17.20	14.00		
5	339.04	32.6 QP	46.0	-13.4	1.00 V	13	16.60	16.00		

- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit value.



4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 23, 2011	Nov. 22, 2012
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 30, 2010	Dec. 29, 2011
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jul. 07, 2011	Jul. 06, 2012
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 06, 2011	Jan. 05, 2012
LISN ROHDE & SCHWARZ	ESH3-Z5	835239/001	Feb. 22, 2011	Feb. 21, 2012
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jun. 30, 2011	Jun. 29, 2012
LISN ROHDE & SCHWARZ	ENV216	100072	Jun. 10, 2011	Jun. 09, 2012
Software ADT	ADT_Cond_ V7.3.7	NA	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.2.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

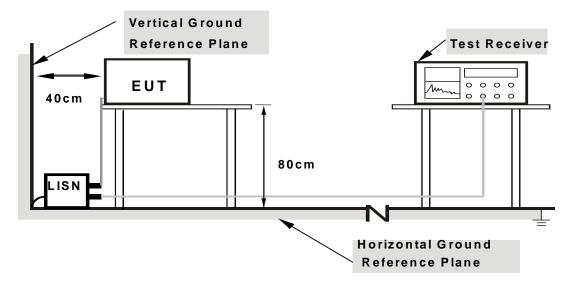
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



4.2.5 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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.



4.2.7 TEST RESULTS

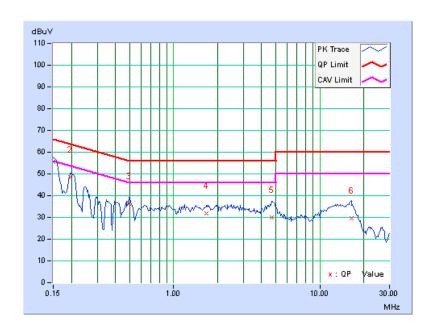
CONDUCTED WORST-CASE DATA: 802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
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No	o Freq. Corr. Factor		Reading Value		Emission Level		Limit		Margin	
No			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.11	55.61	45.48	55.73	45.59	66.00	56.00	-10.27	-10.41
2	0.197	0.12	48.40	38.62	48.52	38.74	63.74	53.74	-15.22	-15.00
3	0.494	0.13	36.31	30.15	36.44	30.28	56.10	46.10	-19.67	-15.83
4	1.684	0.18	31.76	24.70	31.94	24.88	56.00	46.00	-24.06	-21.12
5	4.719	0.35	29.75	21.75	30.10	22.10	56.00	46.00	-25.90	-23.90
6	16.496	0.95	28.77	19.46	29.72	20.41	60.00	50.00	-30.28	-29.59

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



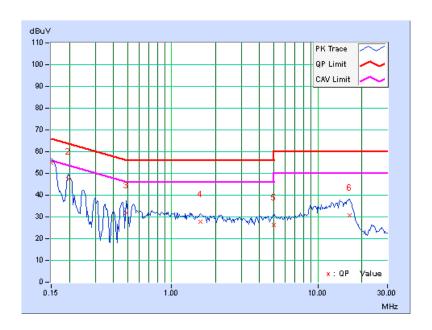


PHASE	Line 2	6dB BANDWIDTH	9kHz
THAGE	Ellio E	OGD BANDWIDTH	01tt 12

Na	Freq. Corr.		Corr. Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.12	54.70	43.85	54.82	43.97	66.00	56.00	-11.18	-12.03
2	0.197	0.13	47.32	36.79	47.45	36.92	63.74	53.74	-16.29	-16.82
3	0.486	0.15	31.75	18.03	31.90	18.18	56.24	46.24	-24.34	-28.06
4	1.578	0.19	27.56	20.62	27.75	20.81	56.00	46.00	-28.25	-25.19
5	4.977	0.37	25.84	19.35	26.21	19.72	56.00	46.00	-29.79	-26.28
6	16.539	0.80	29.92	22.11	30.72	22.91	60.00	50.00	-29.28	-27.09

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss6. Emission Level = Correction Factor + Reading Value.





4.3 PEAK TRANSMIT POWER MEASUREMENT

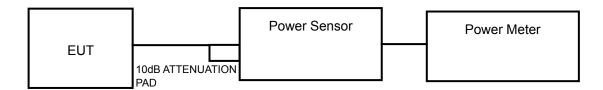
4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

FREQUENCY BAND	LIMIT
5.15 ~ 5.25GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 26dB BANDWIDTH



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

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4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



4.3.7 TEST RESULTS

POWER OUTPUT: 802.11a

CHAN. FREQ.		POWER OUTPUT (dBm)			TOTAL	TOTAL POWER	POWER	PASS /
CHAN.	FREQ. (MHz)	CHAIN 0	CHAIN 1	IN 1 CHAIN 2 (mW)	_	(dBm)	LIMIT (dBm)	FAIL
36	5180	10.6	10.2	10.0	32.0	15.0	16.2	PASS
40	5200	10.6	9.6	10.0	30.6	14.9	16.2	PASS
48	5240	10.5	9.6	10.0	30.3	14.8	16.2	PASS

Directional gain =2.0dBi + 10log(3)=6.8dBi > 6dBi, so the conducted power limit shall be reduced to 17-(6.8-6)=16.2dBm

802.11n (20MHz)

CHAN	CHAN.	POWE	POWER OUTPUT (dBm)		TOTAL	TOTAL POWER	POWER LIMIT	PASS /
CHAN. FREQ. (MHz)	CHAIN 0	CHAIN 1	CHAIN 2	POWER (mW)	(dBm)	(dBm)	FAIL	
36	5180	10.6	10.1	10.0	31.7	15.0	16.2	PASS
40	5200	10.5	9.7	10.1	30.8	14.9	16.2	PASS
48	5240	10.6	9.5	10.1	30.6	14.9	16.2	PASS

Directional gain =2.0dBi + 10log(3)=6.8dBi > 6dBi, so the conducted power limit shall be reduced to 17-(6.8-6)=16.2dBm

802.11n (40MHz)

CHAN	CHAN.	POWE	R OUTPUT	(dBm)	TOTAL	TOTAL	POWER	PASS /
CHAN.	FREQ. (MHz)	CHAIN 0	CHAIN 1	CHAIN 2	POWER (mW)	POWER (dBm)	LIMIT (dBm)	FAIL
38	5190	10.3	10.0	10.2	31.2	14.9	16.2	PASS
46	5230	10.5	10.0	10.1	31.5	15.0	16.2	PASS

Directional gain =2.0dBi + 10log(3)=6.8dBi > 6dBi, so the conducted power limit shall be reduced to 17-(6.8-6)=16.2dBm



26dB OCCUPIED BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY	26dBc OCCU	JPIED BANDV	WIDTH (MHz)	PASS / FAIL
CHANNEL	(MHz)	CHAIN 0	CHAIN 1	CHAIN 2	FAGG/ FAIL
36	5180	24.84	24.22	24.38	PASS
40	5200	25.65	24.86	25.10	PASS
48	5240	24.99	25.17	23.97	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY	26dBc OCCI	JPIED BANDV	VIDTH (MHz)	PASS / FAIL
CHANNEL	(MHz)			CHAIN 2	PASS / FAIL
36	5180	25.22	25.20	25.52	PASS
40	5200	25.55	25.72	25.52	PASS
48	5240	26.07	25.32	26.54	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY	26dBc OCCI	JPIED BANDV	VIDTH (MHz)	PASS / FAIL
CHANNEL	(MHz)	CHAIN 0	CHAIN 1	CHAIN 2	PASS / FAIL
38	5190	55.50	54.04	53.82	PASS
46	5230	54.63	52.76	52.37	PASS



4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURE

- 1) Set RBW = 1 MHz, VBW ≤ 3 MHz, Detector = peak.
- 2) Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
- 3) Use the peak search function to find the peak of the spectrum.
- 4) Measure the PPSD.
- 5) Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as 4.2.6

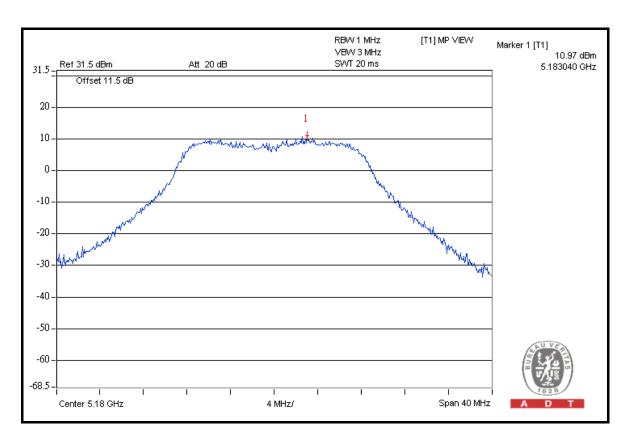


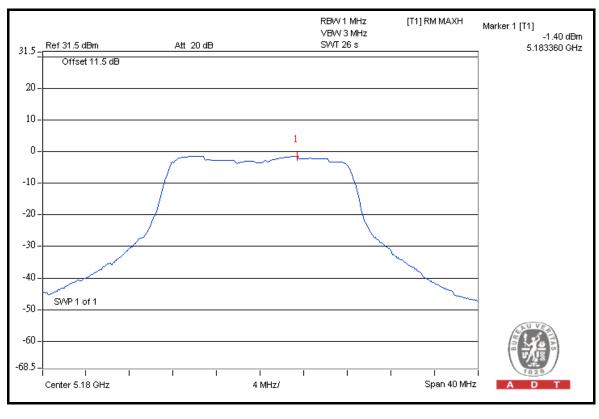
4.4.7 TEST RESULTS

802.11a

TX chain	CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
	36	5180	7.74	-1.03	8.77	13	PASS
0	40	5200	8.45	-0.96	9.41	13	PASS
	48	5240	8.84	-1.29	10.13	13	PASS
	36	5180	8.90	-1.35	10.25	13	PASS
1	40	5200	8.85	-1.74	10.59	13	PASS
	48	5240	8.90	-1.75	10.65	13	PASS
	36	5180	10.97	-1.40	12.37	13	PASS
2	40	5200	10.26	-1.35	11.61	13	PASS
	48	5240	9.61	-1.45	11.06	13	PASS





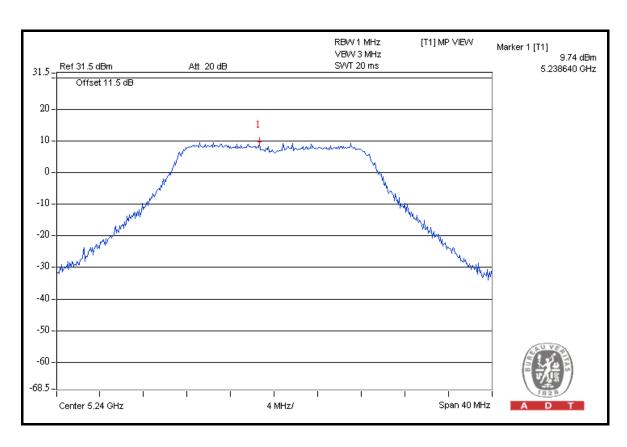


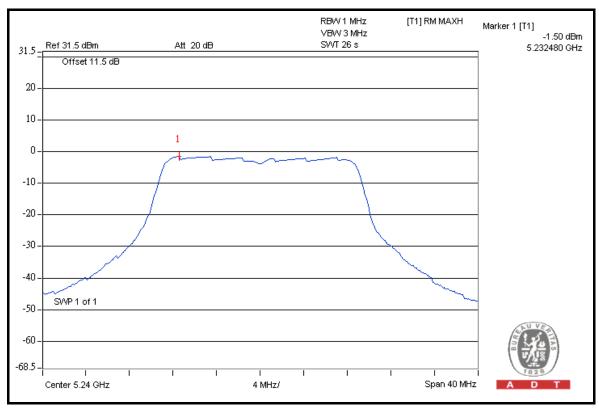


802.11n (20MHz)

TX chain	CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
	36	5180	9.13	-1.05	10.18	13	PASS
0	40	5200	8.84	-1.15	9.99	13	PASS
	48	5240	9.18	-1.18	10.36	13	PASS
	36	5180	9.26	-1.59	10.85	13	PASS
1	40	5200	8.70	-1.84	10.54	13	PASS
	48	5240	8.74	-1.79	10.53	13	PASS
	36	5180	9.51	-1.51	11.02	13	PASS
2	40	5200	9.44	-1.56	11.00	13	PASS
	48	5240	9.74	-1.50	11.24	13	PASS





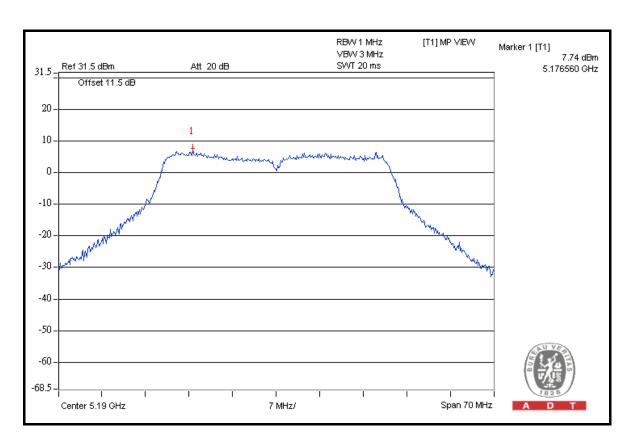


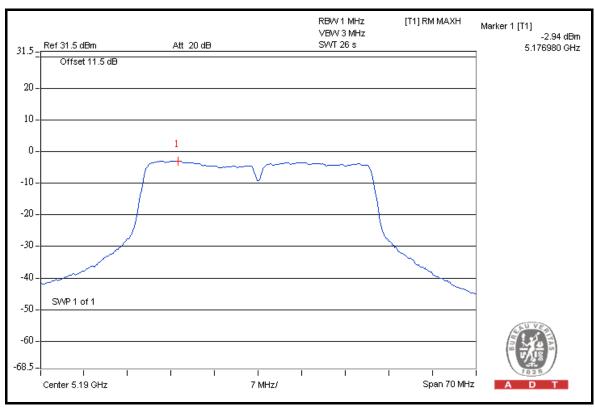


802.11n (40MHz)

TX chain	CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
0	38	5190	5.79	-2.87	8.66	13	PASS
0	46	5230	5.97	-2.64	8.61	13	PASS
1	38	5190	5.74	-3.28	9.02	13	PASS
'	46	5230	5.96	-3.53	9.49	13	PASS
2	38	5190	7.74	-2.94	10.68	13	PASS
2	46	5230	7.64	-2.84	10.48	13	PASS







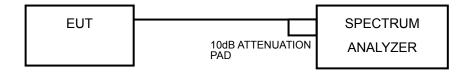


4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.15 ~ 5.25GHz	4dBm

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.5.4 TEST PROCEDURES

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- 3) Sweep time = auto, trigger set to "free run".
- 4) Trace average at least 100 traces in power averaging mode.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6.



4.5.7 TEST RESULTS

802.11a

CHAN.	CHAN. FREQ.	RF POWE	R LEVEL IN (dBm)	1MHz BW	TOTAL POWER	MAX. LIMIT	PASS / FAIL
	(MHz)	CHAIN 0	CHAIN 1	CHAIN 2	DENSITY (dBm)	(dBm)	
36	5180	-1.03	-1.35	-1.40	3.1	3.2	PASS
40	5200	-0.96	-1.74	-1.35	2.9	3.2	PASS
48	5240	-1.29	-1.75	-1.45	3.1	3.2	PASS

NOTE:

- 1. Directional gain = 2.0dBi + 10log(3) = 6.8dBi > 6dBi, so the power density limit shall be reduced to 4-(6.8-6) = 3.2dBm.
- 2. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer

802.11n (20MHz)

CHAN.	CHAN. FREQ.	N. FREQ. (dBm) POW		TOTAL POWER	MAX. LIMIT	PASS / FAIL	
	(MHz)	CHAIN 0	CHAIN 1	CHAIN 2	DENSITY (dBm)	(dBm)	
36	5180	-1.05	-1.59	-1.51	3.1	3.2	PASS
40	5200	-1.15	-1.84	-1.56	3.0	3.2	PASS
48	5240	-1.18	-1.79	-1.50	2.9	3.2	PASS

NOTE:

- 1. Directional gain = 2.0dBi + 10log(3) = 6.8dBi > 6dBi, so the power density limit shall be reduced to 4-(6.8-6) = 3.2dBm.
- 2. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer



802.11n (40MHz)

CHAN.	CHAN. FREQ.	`		TOTAL POWER	MAX. LIMIT	PASS / FAIL	
	(MHz)	CHAIN 0	CHAIN 1	CHAIN 2	DENSITY (dBm)	(dBm)	
38	5190	-2.87	-3.28	-2.94	1.5	3.2	PASS
46	5230	-2.64	-3.53	-2.84	1.5	3.2	PASS

NOTE:

- 1. Directional gain = 2.0dBi + 10log(3) = 6.8dBi > 6dBi, so the power density limit shall be reduced to 4-(6.8-6) = 3.2dBm.
- 2. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer

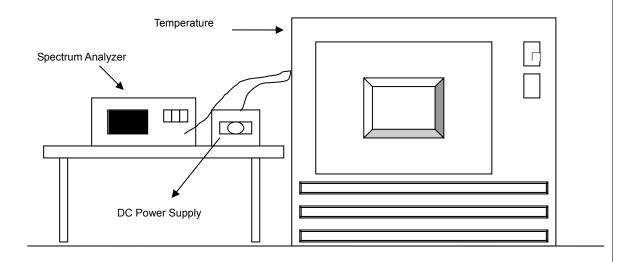


4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.



4.6.4 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.

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4.6.7 TEST RESULTS

	FREQUEMCY STABILITY VERSUS TEMP.												
	OPERATING FREQUENCY: 5200MHz												
	POWER	0 MIN	NUTE	2 MIN	NUTE	5 MIN	NUTE	10 MI	NUTE				
TEMP. (℃)	EMP. SLIDDI V	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)				
55	110.0	5199.988975	-2.120	5199.988334	-2.243	5199.988409	-2.229	5199.988571	-2.198				
50	110.0	5199.988611	-2.190	5199.988819	-2.150	5199.988422	-2.227	5199.988521	-2.207				
40	110.0	5199.990222	-1.880	5199.990580	-1.812	5199.990469	-1.833	5199.990750	-1.779				
30	110.0	5199.991084	-1.715	5199.991494	-1.636	5199.991164	-1.699	5199.991530	-1.629				
20	110.0	5199.993320	-1.285	5199.993381	-1.273	5199.993225	-1.303	5199.993231	-1.302				
10	110.0	5199.990565	-1.814	5199.990586	-1.810	5199.990735	-1.782	5199.991040	-1.723				
0	110.0	5199.990193	-1.886	5199.990303	-1.865	5199.990137	-1.897	5199.990066	-1.910				
-10	110.0	5199.989404	-2.038	5199.989715	-1.978	5199.989747	-1.972	5199.989422	-2.034				
-20	110.0	5199.987896	-2.328	5199.987897	-2.328	5199.988294	-2.251	5199.988477	-2.216				
-30	110.0	5199.988975	-2.120	5199.988334	-2.243	5199.988409	-2.229	5199.988571	-2.198				

	FREQUEMCY STABILITY VERSUS VOLTAGE											
OPERATING FREQUENCY: 5200MHz												
	POWER	0 MINUTE		2 MII	2 MINUTE		5 MINUTE		10 MINUTE			
TEMP . (℃)	SUPPLY (Vac)	Measured Frequency (MHz)	- 1	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)			
	93.5	5199.990682	-1.792	5199.990559	-1.816	5199.990387	-1.849	5199.990108	-1.902			
20	110.0	5199.991084	-1.715	5199.991494	-1.636	5199.991164	-1.699	5199.991530	-1.629			
	126.5	5199.993878	-1.177	5199.993321	-1.284	5199.993627	-1.226	5199.993816	-1.189			



5. PHOTOGRAPHS OF THE TEST CONFIGURATION Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:Hsin Chu EMC/RF Lab:Tel: 886-2-26052180Tel: 886-3-5935343Fax: 886-2-26051924Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---