



# FCC TEST REPORT (15.407)

**REPORT NO.:** RF130805C28-7  
**MODEL NO.:** 0P3P500  
**FCC ID:** NM80P3P500  
**RECEIVED:** Aug. 05, 2013  
**TESTED:** Aug. 28, 2013 ~ Aug. 30, 2013  
**ISSUED:** Sep. 05, 2013

**APPLICANT:** HTC Corporation

**ADDRESS:** No. 23,Xinghua Rd.,Taoyuan 330,Taiwan,R.O.C.

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
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**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130805C28-7	Original release	Sep. 05, 2013

## 1. CERTIFICATION

**PRODUCT:** Smartphone  
**MODEL NO.:** 0P3P500  
**BRAND:** HTC  
**APPLICANT:** HTC Corporation  
**TESTED:** Aug. 28, 2013 ~ Aug. 30, 2013  
**TEST SAMPLE:** PRODUCTION UNIT  
**STANDARDS:** **FCC Part 15, Subpart E (Section 15.407)**  
ANSI C63.10-2009

The above equipment (model: 0P3P500) 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** : Ivonne Wu , **DATE** : Sep. 05, 2013  
Ivonne Wu / Senior Specialist

**APPROVED BY** : Sam Chen , **DATE** : Sep. 05, 2013  
Sam Chen / Assistant 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	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -2.60dB at 13.55859MHz.
15.407(b/1/2/3) (b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -7.17dB at 5448.00MHz.
15.407(a/1/2)	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)	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	No antenna connector is used.

### 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
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	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

<b>EUT</b>	Smartphone
<b>MODEL NO.</b>	0P3P500
<b>POWER SUPPLY</b>	5.0Vdc (adapter or host equipment) 3.8Vdc (Li-ion battery)
<b>MODULATION TYPE</b>	256QAM, 64QAM, 16QAM, QPSK, BPSK
<b>MODULATION TECHNOLOGY</b>	OFDM
<b>TRANSFER RATE</b>	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to MCS7 802.11ac: up to V9
<b>OPERATING FREQUENCY</b>	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5700MHz
<b>NUMBER OF CHANNEL</b>	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz) 1 for 802.11ac (80MHz)
<b>OUTPUT POWER</b>	40.551mW for 5180 ~ 5240MHz 41.210mW for 5260 ~ 5320MHz 43.853mW for 5500 ~ 5700MHz
<b>ANTENNA TYPE</b>	PIFA antenna with -4 dBi gain (5180~5240MHz) PIFA antenna with -4 dBi gain (5260~5320MHz) PIFA antenna with -3 dBi gain (5500~5700MHz)
<b>ANTENNA CONNECTOR</b>	NA
<b>DATA CABLE</b>	Refer to Note as below
<b>I/O PORTS</b>	Refer to user's manual
<b>ACCESSORY DEVICES</b>	Refer to Note as below

**NOTE:**

1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

#### FOR 5180 ~ 5240MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
42	5210MHz

#### FOR 5260 ~ 5320MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
58	5290MHz



**FOR 5500 ~ 5700MHz**

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500MHz	116	5580MHz
104	5520MHz	132	5660MHz
108	5540MHz	136	5680MHz
112	5560MHz	140	5700MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510MHz	134	5670MHz
110	5550MHz		

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
106	5530MHz

### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz

**RE<1G**: Radiated Emission below 1GHz

**PLC**: Power Line Conducted Emission

**APCM**: Antenna Port Conducted Measurement

**NOTE:** The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane** for 5180-5240MHz and 5500-5700MHz, and on **Z-plane** for 5260-5320MHz.

#### **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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 44, 48	OFDM	BPSK	6.0
802.11n (20MHz)		36 to 48	36, 44, 48	OFDM	BPSK	MCS0
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
802.11ac (80MHz)		42	42	OFDM	BPSK	V0
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
802.11ac (80MHz)		58	58	OFDM	BPSK	V0
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
802.11ac (80MHz)		106	106	OFDM	BPSK	V0

#### **RADIATED EMISSION TEST (BELOW 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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11n (20MHz)	5180-5240	36 to 48	44	OFDM	BPSK	MCS0
	5260-5320	52 to 64	64	OFDM	BPSK	MCS0
	5500-5700	100 to 140	140	OFDM	BPSK	MCS0

**POWER LINE CONDUCTED EMISSION TEST:**

TEST CONDITION
BT Link + WLAN (5G) Link + NFC Link + USB Cable + Earphone + Adapter

**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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 48	OFDM	BPSK	6.0
802.11n (20MHz)		36 to 48	36, 48	OFDM	BPSK	MCS0
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
802.11ac (80MHz)		42	42	OFDM	BPSK	V0
802.11a	5260-5320	52 to 64	52, 64	OFDM	BPSK	6.0
802.11n (20MHz)		52 to 64	52, 64	OFDM	BPSK	MCS0
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
802.11ac (80MHz)		58	58	OFDM	BPSK	V0
802.11a	5500-5700	100 to 140	100, 140	OFDM	BPSK	6.0
802.11n (20MHz)		100 to 140	100, 140	OFDM	BPSK	MCS0
802.11n (40MHz)		102 to 134	102, 134	OFDM	BPSK	MCS0
802.11ac (80MHz)		106	106	OFDM	BPSK	V0

**ANTENNA PORT CONDUCTED MEASUREMENT:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- 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	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 44, 48	OFDM	BPSK	6.0
802.11n (20MHz)		36 to 48	36, 44, 48	OFDM	BPSK	MCS0
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	MCS0
802.11ac (80MHz)		42	42	OFDM	BPSK	V0
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	MCS0
802.11ac (80MHz)		58	58	OFDM	BPSK	V0
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
802.11ac (80MHz)		106	106	OFDM	BPSK	V0

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu
PLC	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao
APCM	25deg. C, 65%RH	120Vac, 60Hz	Howard Kao

### 3.3 DESCRIPTION OF SUPPORT UNITS

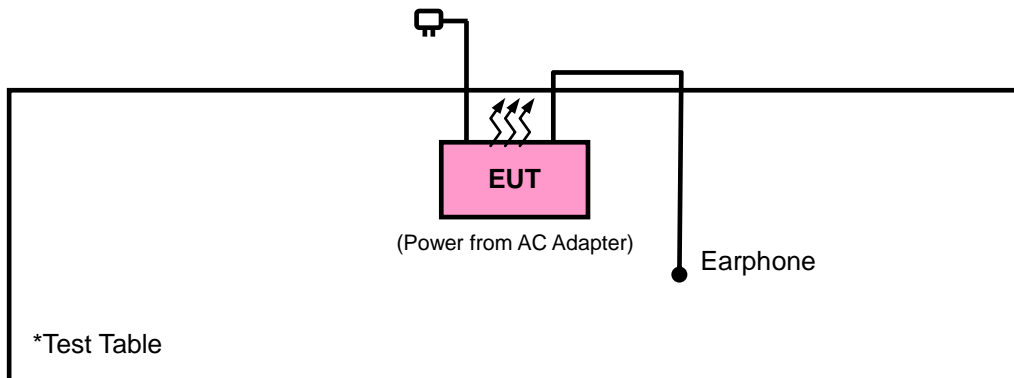
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Earphone	Merry	Max-300	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.1m audio cable

- NOTE:** 1. All power cords of the above support units are non shielded (1.8m).  
 2. Item 1 was provided by the manufacturer.

#### 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



### 3.4 DUTY CYCLE OF TEST SIGNAL

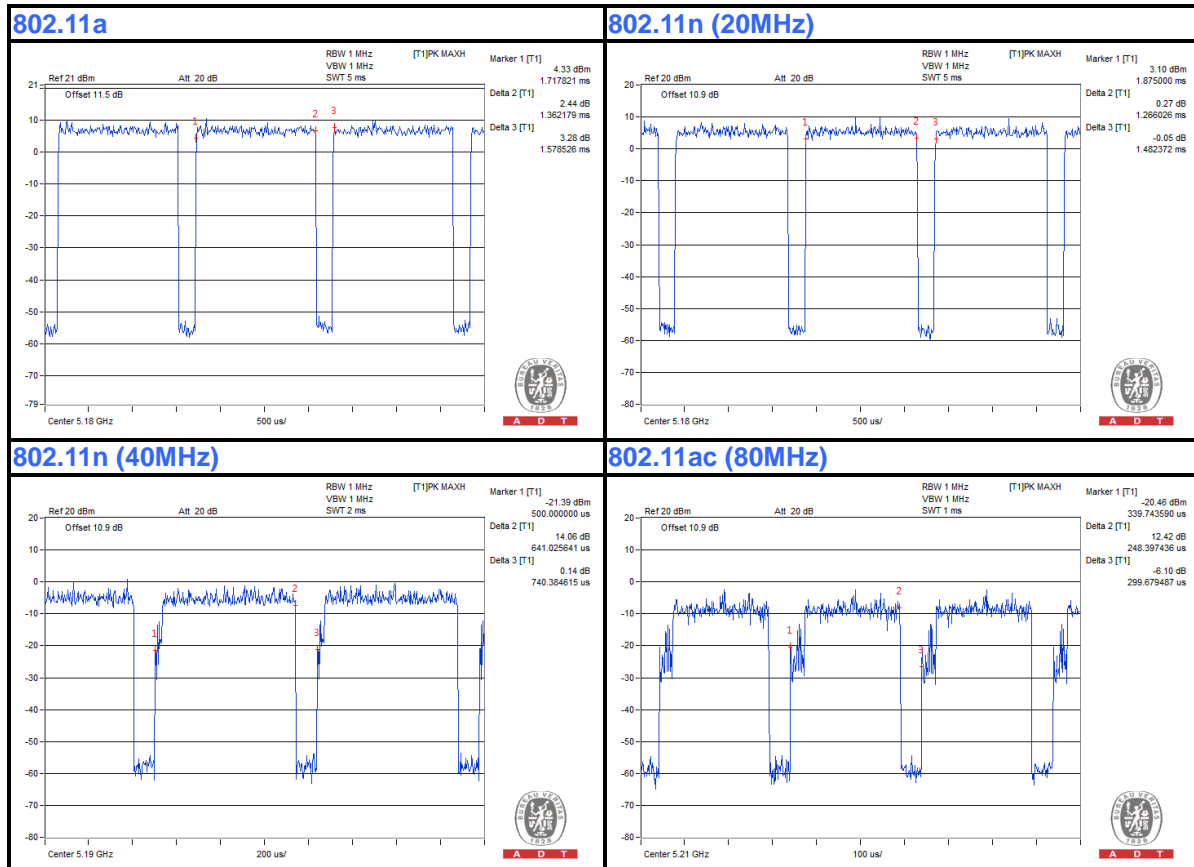
If duty cycle is < 98%, duty factor shall be considered.

**802.11a:** Duty cycle =  $1.362/1.579 = 0.8629$ , Duty factor =  $10 * \log(1/0.8629) = 0.64$

**802.11n (20MHz):** Duty cycle =  $1.266/1.482 = 0.854$ , Duty factor =  $10 * \log(1/0.854) = 0.69$

**802.11n (40MHz):** Duty cycle =  $641.026/740.385 = 0.866$ , Duty factor =  $10 * \log(1/0.866) = 0.63$

**802.11ac (80MHz):** Duty cycle =  $248.397/299.679 = 0.829$ , Duty factor =  $10 * \log(1/0.829) = 0.82$



### 3.5 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)**

ANSI C63.10-2009

KDB 789033 D01 General UNII Test Procedures v01r03

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.

## 4. TEST TYPES AND RESULTS

### 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

#### 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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. 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

APPLICABLE TO	LIMIT	
	FIELD STRENGTH AT 3m (dBµV/m)	
	PK	AV
	74	54
√	EIRP LIMIT (dBm)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
	PK	PK
	-27	68.3

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

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





#### 4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 15, 2013	Apr. 14, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 07, 2013	Jan. 06, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 25, 2012	Dec. 24, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 184045	980116	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable Worken	RG-213	NA	Dec. 29, 2012	Dec. 28, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Power Meter	ML2495A	1012010	Jul. 31, 2013	Jul. 30, 2014
Power Sensor	MA2411B	1315050	Jul. 31, 2013	Jul. 30, 2014

- 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 calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
  3. The test was performed in HwaYa Chamber 10.
  4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  5. The FCC Site Registration No. is 690701.
  6. The IC Site Registration No. is IC 7450F-10.

#### 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 chamber. 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.

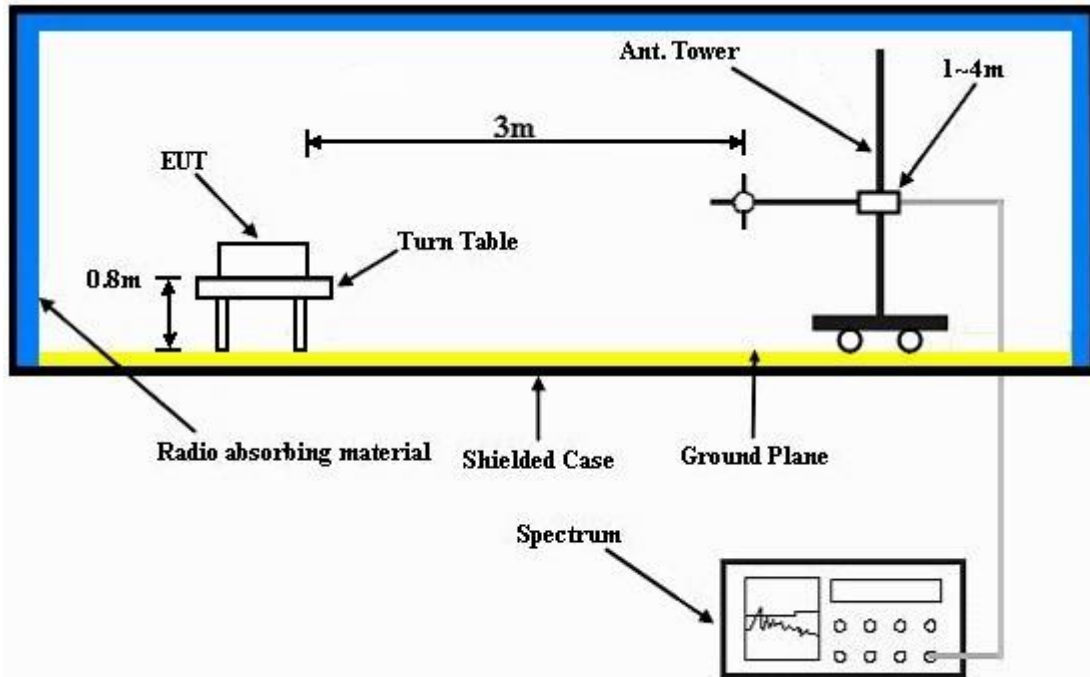
**NOTE:**

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 (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) 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.

#### 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 a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.



### 4.1.8 TEST RESULTS

#### ABOVE 1GHz DATA: 802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5062	44.31	35.83	54	-9.69	34.43	8.03	33.98	173	67	Average
5062	57.27	48.79	74	-16.73	34.43	8.03	33.98	173	67	Peak
5180	96.01	87.38			34.47	8.16	34	173	67	Average
5180	103.14	94.51			34.47	8.16	34	173	67	Peak
5460	42	33.04	54	-12	34.5	8.51	34.05	173	67	Average
5460	57.89	48.93	74	-16.11	34.5	8.51	34.05	173	67	Peak

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5114	45.25	36.69	54	-8.75	34.45	8.1	33.99	101	271	Average
5114	57.27	48.71	74	-16.73	34.45	8.1	33.99	101	271	Peak
5180	96.77	88.14			34.47	8.16	34	101	271	Average
5180	103.82	95.19			34.47	8.16	34	101	271	Peak
5442	42.13	33.19	54	-11.87	34.5	8.48	34.04	101	271	Average
5442	57.65	48.71	74	-16.35	34.5	8.48	34.04	101	271	Peak

#### REMARKS:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5180MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 44	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5048	41.76	33.32	54	-12.24	34.42	8	33.98	156	88	Average
5048	57.65	49.21	74	-16.35	34.42	8	33.98	156	88	Peak
5220	97.5	88.79			34.49	8.22	34	156	88	Average
5220	104.47	95.76			34.49	8.22	34	156	88	Peak
5442	41.97	33.03	54	-12.03	34.5	8.48	34.04	156	88	Average
5442	57.06	48.12	74	-16.94	34.5	8.48	34.04	156	88	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5038	41.9	33.45	54	-12.1	34.42	8	33.97	100	271	Average
5038	57.24	48.79	74	-16.76	34.42	8	33.97	100	271	Peak
5220	98.15	89.44			34.49	8.22	34	100	271	Average
5220	105.09	96.38			34.49	8.22	34	100	271	Peak
5378	41.91	33.04	54	-12.09	34.5	8.41	34.04	100	271	Average
5378	57.29	48.42	74	-16.71	34.5	8.41	34.04	100	271	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5220MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5078	41.71	33.23	54	-12.29	34.43	8.03	33.98	169	86	Average
5078	56.56	48.08	74	-17.44	34.43	8.03	33.98	169	86	Peak
5240	95.73	86.99			34.49	8.26	34.01	169	86	Average
5240	104.08	95.34			34.49	8.26	34.01	169	86	Peak
5426	42.1	33.16	54	-11.9	34.5	8.48	34.04	169	86	Average
5426	57.91	48.97	74	-16.09	34.5	8.48	34.04	169	86	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5118	42.05	33.49	54	-11.95	34.45	8.1	33.99	100	271	Average
5118	56.12	47.56	74	-17.88	34.45	8.1	33.99	100	271	Peak
5240	97.83	89.09			34.49	8.26	34.01	100	271	Average
5240	104.74	96			34.49	8.26	34.01	100	271	Peak
5448	42.16	33.19	54	-11.84	34.5	8.51	34.04	100	271	Average
5448	57.27	48.3	74	-16.73	34.5	8.51	34.04	100	271	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5240MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5070	43.25	34.77	54	-10.75	34.43	8.03	33.98	103	127	Average
5070	56.86	48.38	74	-17.14	34.43	8.03	33.98	103	127	Peak
5260	95.04	86.29			34.5	8.26	34.01	103	127	Average
5260	103.1	94.35			34.5	8.26	34.01	103	127	Peak
5460	43.56	34.6	54	-10.44	34.5	8.51	34.05	103	127	Average
5460	57.08	48.12	74	-16.92	34.5	8.51	34.05	103	127	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5080	42.6	34.12	54	-11.4	34.43	8.03	33.98	102	161	Average
5080	56.95	48.47	74	-17.05	34.43	8.03	33.98	102	161	Peak
5260	97.75	89			34.5	8.26	34.01	102	161	Average
5260	104.95	96.2			34.5	8.26	34.01	102	161	Peak
5450	43.57	34.61	54	-10.43	34.5	8.51	34.05	102	161	Average
5450	57.93	48.97	74	-16.07	34.5	8.51	34.05	102	161	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5260MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5084	42.61	34.09	54	-11.39	34.43	8.07	33.98	103	127	Average
5084	57.13	48.61	74	-16.87	34.43	8.07	33.98	103	127	Peak
5300	96.11	87.31			34.5	8.32	34.02	103	127	Average
5300	104.63	95.83			34.5	8.32	34.02	103	127	Peak
5456	43.77	34.81	54	-10.23	34.5	8.51	34.05	103	127	Average
5456	57.46	48.5	74	-16.54	34.5	8.51	34.05	103	127	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5110	43.32	34.76	54	-10.68	34.45	8.1	33.99	103	159	Average
5110	57.45	48.89	74	-16.55	34.45	8.1	33.99	103	159	Peak
5300	99	90.2			34.5	8.32	34.02	103	159	Average
5300	106.28	97.48			34.5	8.32	34.02	103	159	Peak
5406	43.54	34.64	54	-10.46	34.5	8.44	34.04	103	159	Average
5406	57.08	48.18	74	-16.92	34.5	8.44	34.04	103	159	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5300MHz: Fundamental frequency.





EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5120	44.08	35.52	54	-9.92	34.45	8.1	33.99	101	129	Average
5120	57.36	48.8	74	-16.64	34.45	8.1	33.99	101	129	Peak
5320	95.2	86.37			34.5	8.35	34.02	101	129	Average
5320	103.25	94.42			34.5	8.35	34.02	101	129	Peak
5450	44.84	35.88	54	-9.16	34.5	8.51	34.05	101	129	Average
5450	57.39	48.43	74	-16.61	34.5	8.51	34.05	101	129	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5138	43.73	35.14	54	-10.27	34.45	8.13	33.99	102	157	Average
5138	56.57	47.98	74	-17.43	34.45	8.13	33.99	102	157	Peak
5320	98.49	89.66			34.5	8.35	34.02	102	157	Average
5320	105.93	97.1			34.5	8.35	34.02	102	157	Peak
5350	45.4	36.55	54	-8.6	34.5	8.38	34.03	102	157	Average
5350	60.07	51.22	74	-13.93	34.5	8.38	34.03	102	157	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5320MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5446	45.54	36.57	54	-8.46	34.5	8.51	34.04	146	81	Average
5446	57.66	48.69	74	-16.34	34.5	8.51	34.04	146	81	Peak
5470	56.14	47.18	68.3	-12.16	34.5	8.51	34.05	146	81	Peak
5500	95.37	86.35			34.5	8.57	34.05	146	81	Average
5500	103.27	94.25			34.5	8.57	34.05	146	81	Peak
5725	56.94	47.73	68.3	-11.36	34.67	8.65	34.11	146	81	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5458	45.24	36.28	54	-8.76	34.5	8.51	34.05	100	154	Average
5458	57.44	48.48	74	-16.56	34.5	8.51	34.05	100	154	Peak
5470	55.71	46.75	68.3	-12.59	34.5	8.51	34.05	100	154	Peak
5500	94.4	85.38			34.5	8.57	34.05	100	154	Average
5500	101.99	92.97			34.5	8.57	34.05	100	154	Peak
5725	54.74	45.53	68.3	-13.56	34.67	8.65	34.11	100	154	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5500MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5442	42.24	33.3	54	-11.76	34.5	8.48	34.04	142	78	Average
5442	58.3	49.36	74	-15.7	34.5	8.48	34.04	142	78	Peak
5470	56.05	47.09	68.3	-12.25	34.5	8.51	34.05	142	78	Peak
5580	95.46	86.37			34.57	8.6	34.08	142	78	Average
5580	103.56	94.47			34.57	8.6	34.08	142	78	Peak
5725	55.81	46.6	68.3	-12.49	34.67	8.65	34.11	142	78	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5448	42.28	33.31	54	-11.72	34.5	8.51	34.04	100	155	Average
5448	56.83	47.86	74	-17.17	34.5	8.51	34.04	100	155	Peak
5470	55.67	46.71	68.3	-12.63	34.5	8.51	34.05	100	155	Peak
5580	94.33	85.24			34.57	8.6	34.08	100	155	Average
5580	101.32	92.23			34.57	8.6	34.08	100	155	Peak
5725	56.77	47.56	68.3	-11.53	34.67	8.65	34.11	100	155	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5580MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5452	42.26	33.3	54	-11.74	34.5	8.51	34.05	141	80	Average
5452	57.9	48.94	74	-16.1	34.5	8.51	34.05	141	80	Peak
5470	56.34	47.38	68.3	-11.96	34.5	8.51	34.05	141	80	Peak
5700	95.68	86.48			34.66	8.64	34.1	141	80	Average
5700	103.82	94.62			34.66	8.64	34.1	141	80	Peak
5725	60.47	51.26	68.3	-7.83	34.67	8.65	34.11	141	80	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5418	42.19	33.29	54	-11.81	34.5	8.44	34.04	112	183	Average
5418	57.16	48.26	74	-16.84	34.5	8.44	34.04	112	183	Peak
5470	57.69	48.73	68.3	-10.61	34.5	8.51	34.05	112	183	Peak
5700	94.56	85.36			34.66	8.64	34.1	112	183	Average
5700	102.35	93.15			34.66	8.64	34.1	112	183	Peak
5725	59.12	49.91	68.3	-9.18	34.67	8.65	34.11	112	183	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5700MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	45.23	36.64	54	-8.77	34.46	8.13	34	188	69	Average
5150	60.35	51.76	74	-13.65	34.46	8.13	34	188	69	Peak
5180	95.27	86.64			34.47	8.16	34	188	69	Average
5180	102.43	93.8			34.47	8.16	34	188	69	Peak
5364	41.87	33.02	54	-12.13	34.5	8.38	34.03	188	69	Average
5364	57.09	48.24	74	-16.91	34.5	8.38	34.03	188	69	Peak

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	46.15	37.56	54	-7.85	34.46	8.13	34	102	270	Average
5150	58.34	49.75	74	-15.66	34.46	8.13	34	102	270	Peak
5180	97.12	88.49			34.47	8.16	34	102	270	Average
5180	105.48	96.85			34.47	8.16	34	102	270	Peak
5454	42.13	33.17	54	-11.87	34.5	8.51	34.05	102	270	Average
5454	57.61	48.65	74	-16.39	34.5	8.51	34.05	102	270	Peak

REMARKS:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5180MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 44	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5024	41.88	33.47	54	-12.12	34.41	7.97	33.97	185	69	Average
5024	57.68	49.27	74	-16.32	34.41	7.97	33.97	185	69	Peak
5220	96.2	87.49			34.49	8.22	34	185	69	Average
5220	103.44	94.73			34.49	8.22	34	185	69	Peak
5436	41.97	33.03	54	-12.03	34.5	8.48	34.04	185	69	Average
5436	57.14	48.2	74	-16.86	34.5	8.48	34.04	185	69	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5122	41.87	33.31	54	-12.13	34.45	8.1	33.99	100	271	Average
5122	56.36	47.8	74	-17.64	34.45	8.1	33.99	100	271	Peak
5220	98.21	89.5			34.49	8.22	34	100	271	Average
5220	105.75	97.04			34.49	8.22	34	100	271	Peak
5452	42.06	33.1	54	-11.94	34.5	8.51	34.05	100	271	Average
5452	59.21	50.25	74	-14.79	34.5	8.51	34.05	100	271	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5220MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5092	42.05	33.52	54	-11.95	34.44	8.07	33.98	155	86	Average
5092	56.14	47.61	74	-17.86	34.44	8.07	33.98	155	86	Peak
5240	96.38	87.64			34.49	8.26	34.01	155	86	Average
5240	103.91	95.17			34.49	8.26	34.01	155	86	Peak
5460	42.17	33.21	54	-11.83	34.5	8.51	34.05	155	86	Average
5460	56.75	47.79	74	-17.25	34.5	8.51	34.05	155	86	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5142	42.08	33.48	54	-11.92	34.46	8.13	33.99	100	271	Average
5142	57.07	48.47	74	-16.93	34.46	8.13	33.99	100	271	Peak
5240	97.86	89.12			34.49	8.26	34.01	100	271	Average
5240	105.26	96.52			34.49	8.26	34.01	100	271	Peak
5436	42.15	33.21	54	-11.85	34.5	8.48	34.04	100	271	Average
5436	57.14	48.2	74	-16.86	34.5	8.48	34.04	100	271	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5240MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5088	42.96	34.44	54	-11.04	34.43	8.07	33.98	110	115	Average
5088	57.69	49.17	74	-16.31	34.43	8.07	33.98	110	115	Peak
5260	95.68	86.93			34.5	8.26	34.01	110	115	Average
5260	102.67	93.92			34.5	8.26	34.01	110	115	Peak
5430	43.75	34.81	54	-10.25	34.5	8.48	34.04	110	115	Average
5430	57.53	48.59	74	-16.47	34.5	8.48	34.04	110	115	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5100	42.62	34.1	54	-11.38	34.44	8.07	33.99	102	163	Average
5100	57.58	49.06	74	-16.42	34.44	8.07	33.99	102	163	Peak
5260	97.55	88.8			34.5	8.26	34.01	102	163	Average
5260	104.65	95.9			34.5	8.26	34.01	102	163	Peak
5408	43.62	34.72	54	-10.38	34.5	8.44	34.04	102	163	Average
5408	56.96	48.06	74	-17.04	34.5	8.44	34.04	102	163	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5260MHz: Fundamental frequency.





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5106	44.03	35.5	54	-9.97	34.45	8.07	33.99	102	128	Average
5106	56.81	48.28	74	-17.19	34.45	8.07	33.99	102	128	Peak
5300	96.09	87.29			34.5	8.32	34.02	102	128	Average
5300	102.68	93.88			34.5	8.32	34.02	102	128	Peak
5410	44.16	35.26	54	-9.84	34.5	8.44	34.04	102	128	Average
5410	57.39	48.49	74	-16.61	34.5	8.44	34.04	102	128	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5144	43.74	35.15	54	-10.26	34.46	8.13	34	102	160	Average
5144	56.94	48.35	74	-17.06	34.46	8.13	34	102	160	Peak
5300	98.38	89.58			34.5	8.32	34.02	102	160	Average
5300	105.04	96.24			34.5	8.32	34.02	102	160	Peak
5432	43.83	34.89	54	-10.17	34.5	8.48	34.04	102	160	Average
5432	58.22	49.28	74	-15.78	34.5	8.48	34.04	102	160	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5300MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5132	43.6	35.04	54	-10.4	34.45	8.1	33.99	101	128	Average
5132	56.34	47.78	74	-17.66	34.45	8.1	33.99	101	128	Peak
5320	94.99	86.16			34.5	8.35	34.02	101	128	Average
5320	102.02	93.19			34.5	8.35	34.02	101	128	Peak
5436	44.86	35.92	54	-9.14	34.5	8.48	34.04	101	128	Average
5436	57.92	48.98	74	-16.08	34.5	8.48	34.04	101	128	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5144	44.13	35.54	54	-9.87	34.46	8.13	34	101	158	Average
5144	56.51	47.92	74	-17.49	34.46	8.13	34	101	158	Peak
5320	98.57	89.74			34.5	8.35	34.02	101	158	Average
5320	105.58	96.75			34.5	8.35	34.02	101	158	Peak
5348	45.59	36.74	54	-8.41	34.5	8.38	34.03	101	158	Average
5348	60.35	51.5	74	-13.65	34.5	8.38	34.03	101	158	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5320MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5448	46.83	37.86	54	-7.17	34.5	8.51	34.04	157	157	Average
5448	58.04	49.07	74	-15.96	34.5	8.51	34.04	157	157	Peak
5470	57.01	48.05	68.3	-11.29	34.5	8.51	34.05	157	157	Peak
5500	95.84	86.82			34.5	8.57	34.05	157	157	Average
5500	105.22	96.2			34.5	8.57	34.05	157	157	Peak
5725	56.36	47.15	68.3	-11.94	34.67	8.65	34.11	157	157	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5446	45.63	36.66	54	-8.37	34.5	8.51	34.04	100	154	Average
5446	57.93	48.96	74	-16.07	34.5	8.51	34.04	100	154	Peak
5470	56.94	47.98	68.3	-11.36	34.5	8.51	34.05	100	154	Peak
5500	95.19	86.17			34.5	8.57	34.05	100	154	Average
5500	104.01	94.99			34.5	8.57	34.05	100	154	Peak
5725	55.38	46.17	68.3	-12.92	34.67	8.65	34.11	100	154	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5500MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	42.26	33.3	54	-11.74	34.5	8.51	34.05	145	360	Average
5460	57.69	48.73	74	-16.31	34.5	8.51	34.05	145	360	Peak
5470	55.22	46.26	68.3	-13.08	34.5	8.51	34.05	145	360	Peak
5580	93.71	84.62			34.57	8.6	34.08	145	360	Average
5580	101.8	92.71			34.57	8.6	34.08	145	360	Peak
5725	56.75	47.54	68.3	-11.55	34.67	8.65	34.11	145	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5430	42.23	33.29	54	-11.77	34.5	8.48	34.04	112	173	Average
5430	57.64	48.7	74	-16.36	34.5	8.48	34.04	112	173	Peak
5470	56.45	47.49	68.3	-11.85	34.5	8.51	34.05	112	173	Peak
5580	93.43	84.34			34.57	8.6	34.08	112	173	Average
5580	100.93	91.84			34.57	8.6	34.08	112	173	Peak
5725	57.1	47.89	68.3	-11.2	34.67	8.65	34.11	112	173	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5580MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	42.25	33.29	54	-11.75	34.5	8.51	34.05	151	164	Average
5460	58.04	49.08	74	-15.96	34.5	8.51	34.05	151	164	Peak
5470	55.89	46.93	68.3	-12.41	34.5	8.51	34.05	151	164	Peak
5700	96.18	86.98			34.66	8.64	34.1	151	164	Average
5700	103.99	94.79			34.66	8.64	34.1	151	164	Peak
5725	61.91	52.7	68.3	-6.39	34.67	8.65	34.11	151	164	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5360	42.14	33.29	54	-11.86	34.5	8.38	34.03	111	185	Average
5360	57.26	48.41	74	-16.74	34.5	8.38	34.03	111	185	Peak
5470	55.85	46.89	68.3	-12.45	34.5	8.51	34.05	111	185	Peak
5700	94.43	85.23			34.66	8.64	34.1	111	185	Average
5700	102.63	93.43			34.66	8.64	34.1	111	185	Peak
5725	59.23	50.02	68.3	-9.07	34.67	8.65	34.11	111	185	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5700MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5128	43.43	34.87	54	-10.57	34.45	8.1	33.99	171	70	Average
5128	56.85	48.29	74	-17.15	34.45	8.1	33.99	171	70	Peak
5190	89.82	81.16			34.47	8.19	34	171	70	Average
5190	96.79	88.13			34.47	8.19	34	171	70	Peak
5454	43.27	34.31	54	-10.73	34.5	8.51	34.05	171	70	Average
5454	57.19	48.23	74	-16.81	34.5	8.51	34.05	171	70	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	44.01	35.42	54	-9.99	34.46	8.13	34	100	270	Average
5150	60.68	52.09	74	-13.32	34.46	8.13	34	100	270	Peak
5190	91.3	82.64			34.47	8.19	34	100	270	Average
5190	98.43	89.77			34.47	8.19	34	100	270	Peak
5432	43.46	34.52	54	-10.54	34.5	8.48	34.04	100	270	Average
5432	57.94	49	74	-16.06	34.5	8.48	34.04	100	270	Peak

REMARKS:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5190MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5082	43.21	34.69	54	-10.79	34.43	8.07	33.98	169	85	Average
5082	57.67	49.15	74	-16.33	34.43	8.07	33.98	169	85	Peak
5230	91.06	82.36			34.49	8.22	34.01	169	85	Average
5230	98.63	89.93			34.49	8.22	34.01	169	85	Peak
5446	43.42	34.45	54	-10.58	34.5	8.51	34.04	169	85	Average
5446	56.95	47.98	74	-17.05	34.5	8.51	34.04	169	85	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5072	43.34	34.86	54	-10.66	34.43	8.03	33.98	100	270	Average
5072	56.91	48.43	74	-17.09	34.43	8.03	33.98	100	270	Peak
5230	92.73	84.03			34.49	8.22	34.01	100	270	Average
5230	99.78	91.08			34.49	8.22	34.01	100	270	Peak
5384	43.19	34.32	54	-10.81	34.5	8.41	34.04	100	270	Average
5384	57.47	48.6	74	-16.53	34.5	8.41	34.04	100	270	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5230MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5026	42.5	34.09	54	-11.5	34.41	7.97	33.97	103	128	Average
5026	56.42	48.01	74	-17.58	34.41	7.97	33.97	103	128	Peak
5270	90.17	81.39			34.5	8.29	34.01	103	128	Average
5270	96.73	87.95			34.5	8.29	34.01	103	128	Peak
5452	43.99	35.03	54	-10.01	34.5	8.51	34.05	103	128	Average
5452	57.6	48.64	74	-16.4	34.5	8.51	34.05	103	128	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5096	43.34	34.82	54	-10.66	34.44	8.07	33.99	101	160	Average
5096	57.11	48.59	74	-16.89	34.44	8.07	33.99	101	160	Peak
5270	92.94	84.16			34.5	8.29	34.01	101	160	Average
5270	99.8	91.02			34.5	8.29	34.01	101	160	Peak
5442	43.76	34.82	54	-10.24	34.5	8.48	34.04	101	160	Average
5442	57.24	48.3	74	-16.76	34.5	8.48	34.04	101	160	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5270MHz: Fundamental frequency.





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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5052	43.32	34.88	54	-10.68	34.42	8	33.98	102	127	Average
5052	56.81	48.37	74	-17.19	34.42	8	33.98	102	127	Peak
5310	89.99	81.19			34.5	8.32	34.02	102	127	Average
5310	97.92	89.12			34.5	8.32	34.02	102	127	Peak
5434	43.86	34.92	54	-10.14	34.5	8.48	34.04	102	127	Average
5434	56.87	47.93	74	-17.13	34.5	8.48	34.04	102	127	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5136	43.34	34.75	54	-10.66	34.45	8.13	33.99	102	162	Average
5136	57.32	48.73	74	-16.68	34.45	8.13	33.99	102	162	Peak
5310	92.01	83.21			34.5	8.32	34.02	102	162	Average
5310	99.36	90.56			34.5	8.32	34.02	102	162	Peak
5444	43.52	34.58	54	-10.48	34.5	8.48	34.04	102	162	Average
5444	58.15	49.21	74	-15.85	34.5	8.48	34.04	102	162	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5310MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5434	43.53	34.59	54	-10.47	34.5	8.48	34.04	143	76	Average
5434	57.8	48.86	74	-16.2	34.5	8.48	34.04	143	76	Peak
5470	57.34	48.38	68.3	-10.96	34.5	8.51	34.05	143	76	Peak
5510	90.23	81.21			34.51	8.57	34.06	143	76	Average
5510	97.35	88.33			34.51	8.57	34.06	143	76	Peak
5725	55.82	46.61	68.3	-12.48	34.67	8.65	34.11	143	76	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5434	43.55	34.61	54	-10.45	34.5	8.48	34.04	100	173	Average
5434	57.64	48.7	74	-16.36	34.5	8.48	34.04	100	173	Peak
5470	58.06	49.1	68.3	-10.24	34.5	8.51	34.05	100	173	Peak
5510	88.63	79.61			34.51	8.57	34.06	100	173	Average
5510	96.42	87.4			34.51	8.57	34.06	100	173	Peak
5725	55.77	46.56	68.3	-12.53	34.67	8.65	34.11	100	173	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5510MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5454	43.75	34.79	54	-10.25	34.5	8.51	34.05	142	83	Average
5454	57.16	48.2	74	-16.84	34.5	8.51	34.05	142	83	Peak
5470	55.69	46.73	68.3	-12.61	34.5	8.51	34.05	142	83	Peak
5550	90.41	81.35			34.54	8.59	34.07	142	83	Average
5550	98.27	89.21			34.54	8.59	34.07	142	83	Peak
5725	55.86	46.65	68.3	-12.44	34.67	8.65	34.11	142	83	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5438	43.47	34.53	54	-10.53	34.5	8.48	34.04	100	154	Average
5438	57.83	48.89	74	-16.17	34.5	8.48	34.04	100	154	Peak
5470	57.07	48.11	68.3	-11.23	34.5	8.51	34.05	100	154	Peak
5550	89.66	80.6			34.54	8.59	34.07	100	154	Average
5550	96.83	87.77			34.54	8.59	34.07	100	154	Peak
5725	54.81	45.6	68.3	-13.49	34.67	8.65	34.11	100	154	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5550MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5420	43.48	34.54	54	-10.52	34.5	8.48	34.04	143	78	Average
5420	58	49.06	74	-16	34.5	8.48	34.04	143	78	Peak
5470	56.25	47.29	68.3	-12.05	34.5	8.51	34.05	143	78	Peak
5670	90.18	81.02			34.63	8.63	34.1	143	78	Average
5670	96.83	87.67			34.63	8.63	34.1	143	78	Peak
5725	57.62	48.41	68.3	-10.68	34.67	8.65	34.11	143	78	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5426	43.38	34.44	54	-10.62	34.5	8.48	34.04	100	184	Average
5426	57.07	48.13	74	-16.93	34.5	8.48	34.04	100	184	Peak
5470	56.76	47.8	68.3	-11.54	34.5	8.51	34.05	100	184	Peak
5670	88.39	79.23			34.63	8.63	34.1	100	184	Average
5670	95.97	86.81			34.63	8.63	34.1	100	184	Peak
5725	55.36	46.15	68.3	-12.94	34.67	8.65	34.11	100	184	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5670MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

802.11ac (80MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 42	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	45.99	37.4	54	-8.01	34.46	8.13	34	155	86	Average
5150	63	54.41	74	-11	34.46	8.13	34	155	86	Peak
5210	89.78	81.1			34.49	8.19	34	155	86	Average
5210	95.97	87.29			34.49	8.19	34	155	86	Peak
5460	44.05	35.09	54	-9.95	34.5	8.51	34.05	155	86	Average
5460	58.3	49.34	74	-15.7	34.5	8.51	34.05	155	86	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	44.6	36.01	54	-9.4	34.46	8.13	34	100	271	Average
5150	62.17	53.58	74	-11.83	34.46	8.13	34	100	271	Peak
5210	90.22	81.54			34.49	8.19	34	100	271	Average
5210	96.86	88.18			34.49	8.19	34	100	271	Peak
5458	43.33	34.37	54	-10.67	34.5	8.51	34.05	100	271	Average
5458	57.54	48.58	74	-16.46	34.5	8.51	34.05	100	271	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5210MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 58	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5102	44.06	35.54	54	-9.94	34.44	8.07	33.99	102	128	Average
5102	56.81	48.29	74	-17.19	34.44	8.07	33.99	102	128	Peak
5290	87.53	78.73			34.5	8.32	34.02	102	128	Average
5290	95	86.2			34.5	8.32	34.02	102	128	Peak
5444	44.85	35.91	54	-9.15	34.5	8.48	34.04	102	128	Average
5444	57.31	48.37	74	-16.69	34.5	8.48	34.04	102	128	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5030	43.87	35.43	54	-10.13	34.41	8	33.97	102	157	Average
5030	56.13	47.69	74	-17.87	34.41	8	33.97	102	157	Peak
5290	91.16	82.36			34.5	8.32	34.02	102	157	Average
5290	98.18	89.38			34.5	8.32	34.02	102	157	Peak
5426	44.21	35.27	54	-9.79	34.5	8.48	34.04	102	157	Average
5426	57.22	48.28	74	-16.78	34.5	8.48	34.04	102	157	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5290MHz: Fundamental frequency.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 106	FREQUENCY RANGE	1GHz ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5382	45.08	36.21	54	-8.92	34.5	8.41	34.04	135	95	Average
5382	57.76	48.89	74	-16.24	34.5	8.41	34.04	135	95	Peak
5470	57.79	48.83	68.3	-10.51	34.5	8.51	34.05	135	95	Peak
5530	87.92	78.88			34.53	8.58	34.07	135	95	Average
5530	94.85	85.81			34.53	8.58	34.07	135	95	Peak
5725	56.32	47.11	68.3	-11.98	34.67	8.65	34.11	135	95	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5432	45.52	36.58	54	-8.48	34.5	8.48	34.04	100	154	Average
5432	57.77	48.83	74	-16.23	34.5	8.48	34.04	100	154	Peak
5470	60.42	51.46	68.3	-7.88	34.5	8.51	34.05	100	154	Peak
5530	86.23	77.19			34.53	8.58	34.07	100	154	Average
5530	93.56	84.52			34.53	8.58	34.07	100	154	Peak
5725	54.97	45.76	68.3	-13.33	34.67	8.65	34.11	100	154	Peak

**REMARKS:**

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
Margin value = Emission level – Limit value
- 5530MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

**BELOW 1GHz WORST-CASE DATA :**

**802.11n (20MHz)**

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 44	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
58.35	20.76	42.39	40	-19.24	9.7	0.9	32.23	112	203	Peak
103.44	20.88	40.31	43.5	-22.62	11.55	1.28	32.26	145	215	Peak
168.24	26.15	44.22	43.5	-17.35	12.65	1.52	32.24	175	241	Peak
419.7	18.45	29.58	46	-27.55	18.65	2.41	32.19	112	35	Peak
571.6	21.51	30.28	46	-24.49	20.61	2.82	32.2	185	241	Peak
694.1	24.81	30.73	46	-21.19	23.06	3.11	32.09	175	236	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
61.86	29.22	50.54	40	-10.78	10.01	0.9	32.23	145	214	Peak
110.73	12.88	32.79	43.5	-30.62	11.06	1.28	32.25	185	209	Peak
139.62	27.25	45.94	43.5	-16.25	12.2	1.38	32.27	188	99	Peak
402.2	18.71	30.16	46	-27.29	18.43	2.34	32.22	114	152	Peak
505.8	20.29	29.56	46	-25.71	20.21	2.63	32.11	174	22	Peak
709.5	24.19	30.28	46	-21.81	22.9	3.11	32.1	188	96	Peak

**REMARKS:** Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
 Margin value = Emission level – Limit value





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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
58.35	20.7	42.33	40	-19.3	9.7	0.9	32.23	112	32	Peak
103.71	20.2	39.63	43.5	-23.3	11.55	1.28	32.26	195	235	Peak
169.59	26.89	45.11	43.5	-16.61	12.5	1.52	32.24	187	145	Peak
385.4	18.62	30.29	46	-27.38	18.17	2.34	32.18	112	20	Peak
618.5	22.21	29.66	46	-23.79	21.8	2.93	32.18	174	51	Peak
700.4	24.63	30.41	46	-21.37	23.2	3.11	32.09	142	326	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
62.67	28.27	49.34	40	-11.73	10.26	0.9	32.23	145	214	Peak
104.25	16.7	36.17	43.5	-26.8	11.51	1.28	32.26	174	351	Peak
139.08	26.77	45.5	43.5	-16.73	12.16	1.38	32.27	188	300	Peak
386.8	17.76	29.4	46	-28.24	18.2	2.34	32.18	185	142	Peak
571.6	21.68	30.45	46	-24.32	20.61	2.82	32.2	174	15	Peak
693.4	24.66	30.74	46	-21.34	22.91	3.11	32.1	100	210	Peak

**REMARKS:** Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
 Margin value = Emission level – Limit value



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-peak (QP)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Kay Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
57.81	20.72	42.31	40	-19.28	9.74	0.9	32.23	105	201	Peak
104.25	20.14	39.61	43.5	-23.36	11.51	1.28	32.26	114	20	Peak
148.26	25.01	42.71	43.5	-18.49	13.05	1.52	32.27	174	152	Peak
379.1	17.78	29.61	46	-28.22	18.07	2.26	32.16	145	203	Peak
574.4	20.6	29.38	46	-25.4	20.6	2.82	32.2	175	142	Peak
707.4	24.14	30.13	46	-21.86	23	3.11	32.1	188	95	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
61.86	28.69	50.01	40	-11.31	10.01	0.9	32.23	117	41	Peak
107.22	12.95	32.61	43.5	-30.55	11.31	1.28	32.25	145	102	Peak
152.85	24.05	41.57	43.5	-19.45	13.23	1.52	32.27	175	200	Peak
360.9	17.32	29.63	46	-28.68	17.53	2.26	32.1	145	22	Peak
521.2	21.39	29.69	46	-24.61	21.14	2.7	32.14	178	55	Peak
728.4	23.8	30.26	46	-22.2	22.5	3.16	32.12	188	96	Peak

**REMARKS:** Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor  
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 (dB $\mu$ V)	
	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	100288	Nov. 09, 2012	Nov. 08, 2013
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 02, 2013	Jul. 01, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	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 2.  
 3. The VCCI Site Registration No. is C-2047.

### 4.2.3 TEST PROCEDURES

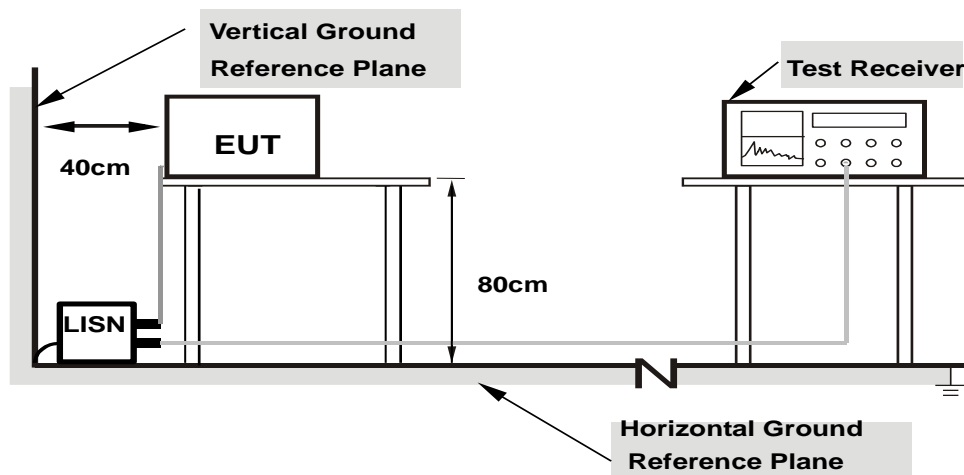
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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

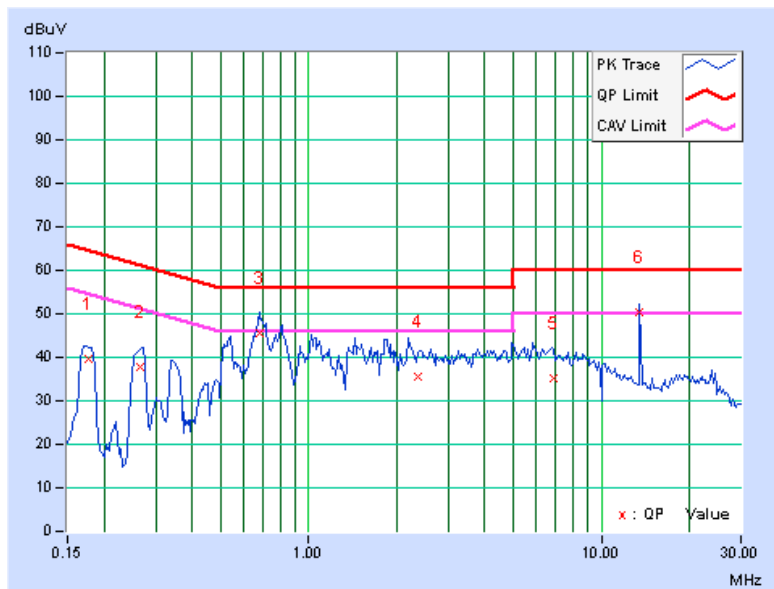
### CONDUCTED WORST-CASE DATA :

<b>PHASE</b>	Line 1	<b>6dB BANDWIDTH</b>	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	0.17	39.41	32.66	39.58	32.83	64.61	54.61	-25.03	-21.78
2	0.26719	0.18	37.56	27.97	37.74	28.15	61.20	51.20	-23.46	-23.05
3	0.67734	0.24	45.16	29.24	45.40	29.48	56.00	46.00	-10.60	-16.52
4	2.37500	0.30	35.43	24.86	35.73	25.16	56.00	46.00	-20.27	-20.84
5	6.87891	0.40	34.76	24.32	35.16	24.72	60.00	50.00	-24.84	-25.28
<b>6</b>	<b>13.55859</b>	<b>0.50</b>	<b>49.70</b>	<b>46.90</b>	<b>50.20</b>	<b>47.40</b>	<b>60.00</b>	<b>50.00</b>	<b>-9.80</b>	<b>-2.60</b>

### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

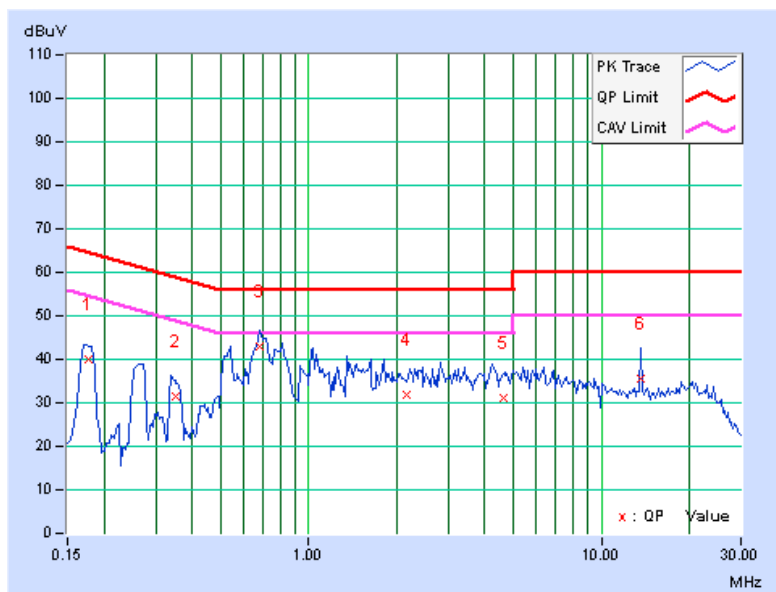


PHASE	Line 2	6dB BANDWIDTH	9kHz
-------	--------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.17734	0.18	39.72	33.74	39.90	33.92	64.61
2	0.34922	0.23	31.21	26.67	31.44	26.90	58.98	48.98	-27.54	-22.08
3	0.67734	0.24	42.56	29.45	42.80	29.69	56.00	46.00	-13.20	-16.31
4	2.17578	0.29	31.62	23.82	31.91	24.11	56.00	46.00	-24.09	-21.89
5	4.62500	0.40	30.67	23.99	31.07	24.39	56.00	46.00	-24.93	-21.61
6	13.56641	0.57	34.83	29.94	35.40	30.51	60.00	50.00	-24.60	-19.49

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



### 4.3 PEAK TRANSMIT POWER MEASUREMENT

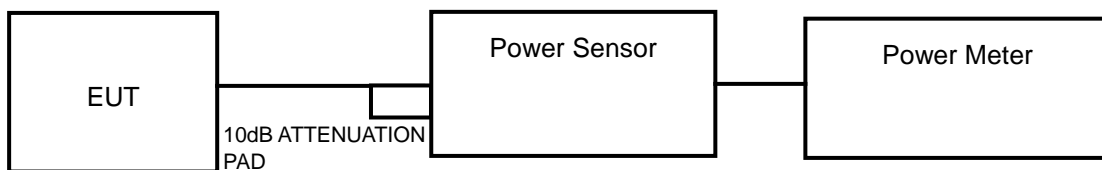
#### 4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.250 ~ 5.350GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.470 ~ 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB

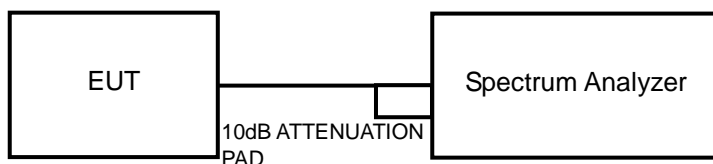
**NOTE:** Where B is the 26dB emission bandwidth in MHz.

#### 4.3.2 TEST SETUP

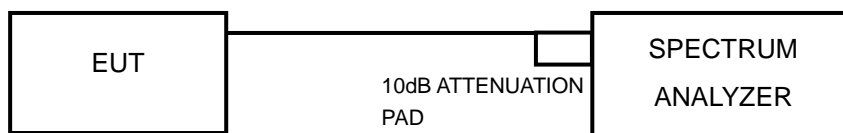
##### FOR POWER OUTPUT MEASUREMENT



or



##### FOR 26dB BANDWIDTH



#### 4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

#### 4.3.4 TEST PROCEDURE

##### FOR AVERAGE POWER MEASUREMENT

<802.11a, 802.11n (20MHz), 802.11n (40MHz)>

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is added to measured value.

<802.11ac (80MHz)>

Method SA-1 is used to perform output power measurement, trigger and gating function of spectrum analyzer is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

##### 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

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	39.719	15.99	17	PASS
44	5220	40.551	16.08	17	PASS
48	5240	36.058	15.57	17	PASS
52	5260	36.308	15.60	24	PASS
60	5300	38.019	15.80	24	PASS
64	5320	40.832	16.11	24	PASS
100	5500	38.194	15.82	24	PASS
116	5580	36.308	15.60	24	PASS
140	5700	43.551	16.39	24	PASS

#### 802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	39.902	16.01	17	PASS
44	5220	40.551	16.08	17	PASS
48	5240	36.224	15.59	17	PASS
52	5260	36.898	15.67	24	PASS
60	5300	37.844	15.78	24	PASS
64	5320	41.210	16.15	24	PASS
100	5500	38.107	15.81	24	PASS
116	5580	36.983	15.68	24	PASS
140	5700	43.853	16.42	24	PASS

#### 802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	19.099	12.81	17	PASS
46	5230	20.559	13.13	17	PASS
54	5270	20.797	13.18	24	PASS
62	5310	19.543	12.91	24	PASS
102	5510	18.072	12.57	24	PASS
110	5550	21.330	13.29	24	PASS
134	5670	22.284	13.48	24	PASS



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### 802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	18.923	12.77	17	PASS
58	5290	18.281	12.62	24	PASS
106	5530	21.184	13.26	24	PASS



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**26dB BANDWIDTH: 802.11a**

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	22.23	PASS
44	5220	33.28	PASS
48	5240	22.27	PASS
52	5260	33.90	PASS
60	5300	33.53	PASS
64	5320	22.35	PASS
100	5500	22.57	PASS
116	5580	28.19	PASS
140	5700	30.87	PASS

**802.11n (20MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	22.78	PASS
44	5220	32.91	PASS
48	5240	33.22	PASS
52	5260	22.65	PASS
60	5300	22.84	PASS
64	5320	33.67	PASS
100	5500	22.84	PASS
116	5580	29.63	PASS
140	5700	31.44	PASS

**802.11n (40MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	45.98	PASS
46	5230	46.20	PASS
54	5270	45.82	PASS
62	5310	45.38	PASS
102	5510	51.31	PASS
110	5550	45.39	PASS
134	5670	45.57	PASS



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**802.11ac (80MHz)**

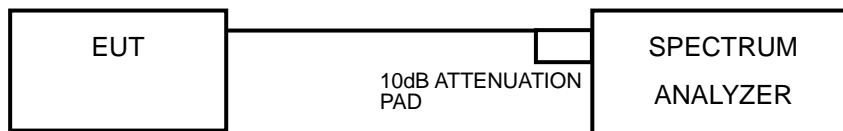
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
42	5210	117.36	PASS
58	5290	117.74	PASS
106	5530	91.37	PASS

#### 4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

##### 4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	4dBm
5.250 ~ 5.350GHz	11dBm
5.470 ~ 5.725GHz	11dBm

##### 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 PROCEDURES

<802.11a, 802.11n (20MHz), 802.11n (40MHz), 802.11ac (80MHz)>

Using method SA-2 alternative

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- 3) Sweep time = 4second.
- 4) Perform a single sweep.
- 5) Record the max value and add 10 log (1/duty cycle)

#### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6.

#### 4.4.7 TEST RESULTS

##### 802.11a

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	2.86	0.64	3.50	4	PASS
44	5220	2.88	0.64	3.52	4	PASS
48	5240	3.27	0.64	3.91	4	PASS
52	5260	2.71	0.64	3.35	11	PASS
60	5300	3.13	0.64	3.77	11	PASS
64	5320	4.17	0.64	4.81	11	PASS
100	5500	4.53	0.64	5.17	11	PASS
116	5580	3.29	0.64	3.93	11	PASS
140	5700	3.52	0.64	4.16	11	PASS

**NOTE:** Refer to section 3.3 for duty cycle spectrum plot.

##### 802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	3.06	0.69	3.75	4	PASS
44	5220	2.78	0.69	3.47	4	PASS
48	5240	2.15	0.69	2.84	4	PASS
52	5260	3.36	0.69	4.05	11	PASS
60	5300	3.77	0.69	4.46	11	PASS
64	5320	2.97	0.69	3.66	11	PASS
100	5500	4.20	0.69	4.89	11	PASS
116	5580	3.04	0.69	3.73	11	PASS
140	5700	3.28	0.69	3.97	11	PASS

**NOTE:** Refer to section 3.3 for duty cycle spectrum plot.



**802.11n (40MHz)**

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-2.71	0.63	-2.08	4	PASS
46	5230	-2.21	0.63	-1.58	4	PASS
54	5270	-1.84	0.63	-1.21	11	PASS
62	5310	-2.42	0.63	-1.79	11	PASS
102	5510	-2.39	0.63	-1.76	11	PASS
110	5550	-1.19	0.63	-0.56	11	PASS
134	5670	-1.57	0.63	-0.94	11	PASS

**NOTE:** Refer to section 3.3 for duty cycle spectrum plot.

**802.11ac (80MHz)**

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
42	5210	-7.28	0.82	-6.46	4	PASS
58	5290	-7.80	0.82	-6.98	11	PASS
106	5530	-6.76	0.82	-5.94	11	PASS

**NOTE:** Refer to section 3.3 for duty cycle spectrum plot.

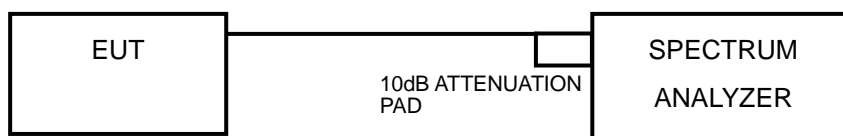


## 4.5 PEAK POWER EXCURSION MEASUREMENT

### 4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB.

### 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 PROCEDURE

- 1) Set RBW = 1 MHz, VBW  $\geq$  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.

Find the worst channel and modulation mode as above test procedure, and follow KDB 789033 D01 General UNII Test Procedures v01r03 and repeat step 1 to 5 for final testing of each modulation mode on a single channel (all modulation types) in a single operating band to compliance with the peak excursion requirement.

### 4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

### 4.5.6 EUT OPERATING CONDITIONS

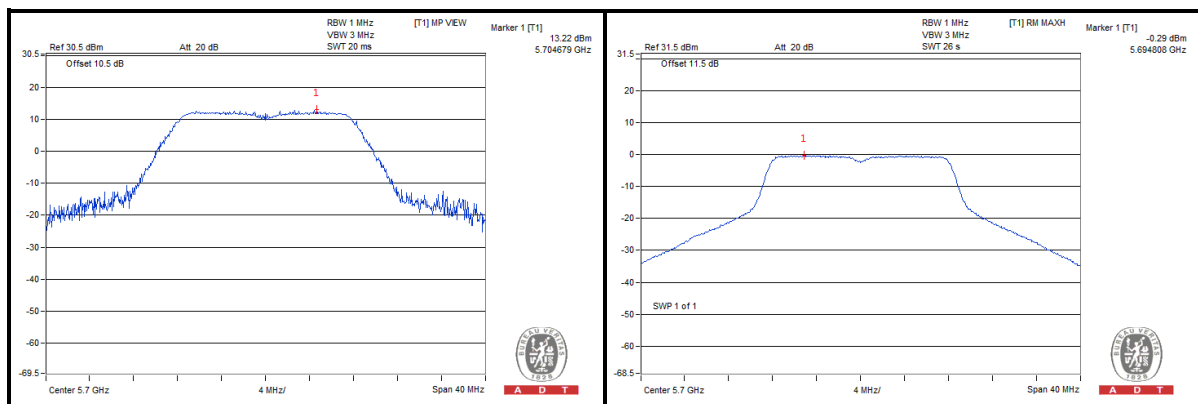
Same as 4.2.6

### 4.5.7 TEST RESULTS

#### 802.11a

MODULATION MODE	MODULATION TYPE	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)	PPSD WITHOUT DUTY FACTOR (dBm)	PPSD WITH DUTY FACTOR (dBm)	PEAK EXCURSION (dB)	LIMIT (dB)	PASS /FAIL
802.11a	BPSK	5700	13.76	3.52	4.16	9.60	13	PASS
	QPSK		15.17	3.15	3.79	11.38	13	PASS
	16QAM		14.10	0.92	1.56	12.54	13	PASS
	64QAM		13.22	-0.29	0.35	12.87	13	PASS
802.11n (20MHz)	BPSK	5700	13.29	3.28	3.97	9.32	13	PASS
	QPSK		13.51	2.90	3.59	9.92	13	PASS
	16QAM		12.10	0.56	1.25	10.85	13	PASS
	64QAM		12.28	-0.47	0.22	12.06	13	PASS
802.11n (40MHz)	BPSK	5670	8.24	-1.57	-0.94	9.18	13	PASS
	QPSK		8.89	-2.23	-1.60	10.49	13	PASS
	16QAM		8.80	-2.92	-2.29	11.09	13	PASS
	64QAM		9.32	-3.66	-3.03	12.35	13	PASS
802.11ac (80MHz)	BPSK	5530	2.31	-6.76	-5.94	8.25	13	PASS
	QPSK		2.33	-7.23	-6.41	8.74	13	PASS
	16QAM		2.73	-7.16	-6.34	9.07	13	PASS
	64QAM		2.75	-7.34	-6.52	9.27	13	PASS
	256QAM		1.01	-9.71	-8.89	9.90	13	PASS

**NOTE:** Refer to section 3.3 for duty cycle spectrum plot.

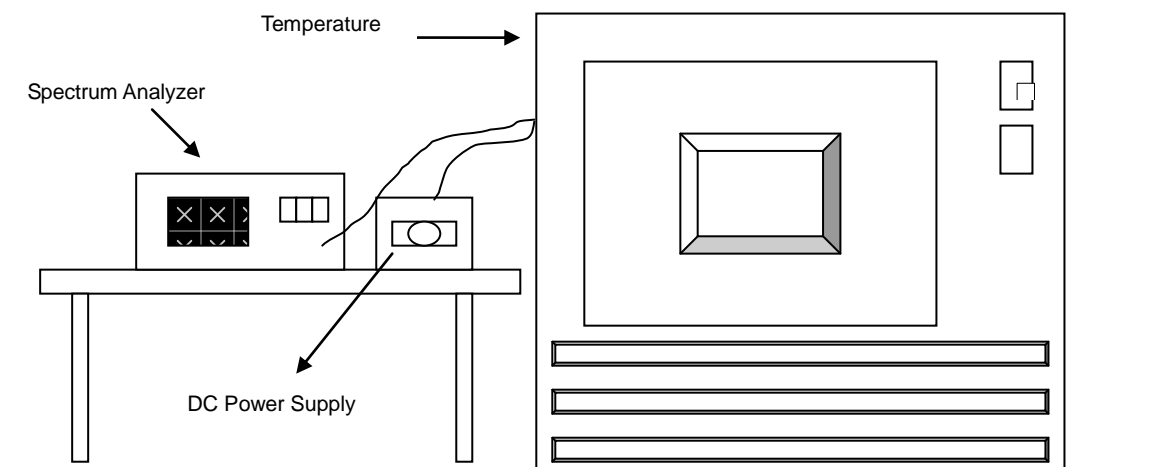


## 4.6 FREQUENCY STABILITY

### 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. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- b. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- c. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

#### 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.

#### 4.6.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
60	3.8	5320.015084	2.835	5320.014935	2.807	5320.015311	2.878	5320.015107	2.840
50	3.8	5320.015312	2.878	5320.014837	2.789	5320.014936	2.808	5320.016100	3.026
40	3.8	5320.015866	2.982	5320.016204	3.046	5320.015668	2.945	5320.016125	3.031
30	3.8	5320.016971	3.190	5320.017270	3.246	5320.017329	3.257	5320.017223	3.237
20	3.8	5320.017678	3.323	5320.017813	3.348	5320.018240	3.429	5320.018019	3.387
10	3.8	5320.019764	3.715	5320.019593	3.683	5320.019430	3.652	5320.019261	3.620
0	3.8	5320.018048	3.392	5320.017952	3.374	5320.018384	3.456	5320.018234	3.427
-10	3.8	5320.016436	3.089	5320.016752	3.149	5320.016553	3.111	5320.016298	3.064
-20	3.8	5320.016190	3.043	5320.016138	3.033	5320.015685	2.948	5320.016237	3.052
-30	3.8	5320.014859	2.793	5320.015212	2.859	5320.014589	2.742	5320.015310	2.878

FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)	Measured Frequency (MHz)	Frequency Drift (ppm)
20	3.55	5320.017508	3.291	5320.017903	3.365	5320.017644	3.317	5320.017662	3.320
	3.8	5320.017678	3.323	5320.017813	3.348	5320.018240	3.429	5320.018019	3.387
	4.35	5320.019343	3.636	5320.018926	3.558	5320.019077	3.586	5320.019354	3.638

## 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:

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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---