

FCC TEST REPORT (15.407)

REPORT NO.: RF121218C06A-4

MODEL NO.: PN07100

FCC ID: NM8PN07100

RECEIVED: Dec. 22, 2012

TESTED: Jan. 11, 2013 ~ Jan. 18, 2013

ISSUED: Jan. 30, 2013

APPLICANT: HTC Corporation

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

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Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF121218C06A-4	Original release	Jan. 30, 2013

1. CERTIFICATION

PRODUCT: Smartphone
MODEL NO.: PN07100
BRAND: HTC
APPLICANT: HTC Corporation
TESTED: Jan. 11, 2013 ~ Jan. 18, 2013
TEST SAMPLE: Production Unit
STANDARDS: **FCC Part 15, Subpart E (Section 15.407)**
ANSI C63.10-2009

The above equipment (model: PN07100) 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** : Jan. 30, 2013
Ivonne Wu / Senior Specialist

APPROVED BY : Anderson Chiu , **DATE** : Jan. 30, 2013
Anderson Chiu / Senior Engineer

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 -8.33dB at 13.56250MHz.
15.407(b/1/2/3)(b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -3.78dB at 42.15MHz.
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

EUT	Smartphone
MODEL NO.	PN07100
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (Li-ion battery)
MODULATION TYPE	256QAM, 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 MCS7 802.11ac: up to V9
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5700MHz
NUMBER OF CHANNEL	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)
OUTPUT POWER	41.783mW for 5180 ~ 5240MHz 50.234mW for 5260 ~ 5320MHz 51.523mW for 5500 ~ 5700MHz
ANTENNA TYPE	PIFA antenna with -2dBi gain (5180 ~ 5240MHz) PIFA antenna with -2dBi gain (5260 ~ 5320MHz) PIFA antenna with -2dBi gain (5500 ~ 5700MHz)
ANTENNA CONNECTOR	NA
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

1. The EUT's accessories list refers to Ext. Pho.
2. The EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX
802.11ac (80MHz)	1TX

3. The device has 2 configurations as below.
Main Sample (A): Battery 1 + LCD Panel 1 + Front Camera 1
2nd Sample (B): Battery 2 + LCD Panel 2 + Front Camera 2
4. 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	
A	√	√	√	√	Main Sample
B	√	-	√	-	2nd Sample

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 **Z-plane** for mode A and **Y-plane** for mode B.

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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	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
B	802.11ac (80MHz)	5180-5240	42	42	OFDM	BPSK	V0
		5260-5320	58	58	OFDM	BPSK	V0
	802.11n (20MHz)	5500-5700	100 to 140	140	OFDM	BPSK	MCS0

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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11n (20MHz)	5500-5700	100 to 140	140	OFDM	BPSK	MCS0

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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11n (20MHz)	5500-5700	100 to 140	140	OFDM	BPSK	MCS0
B	802.11n (20MHz)	5500-5700	100 to 140	140	OFDM	BPSK	MCS0

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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	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

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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	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

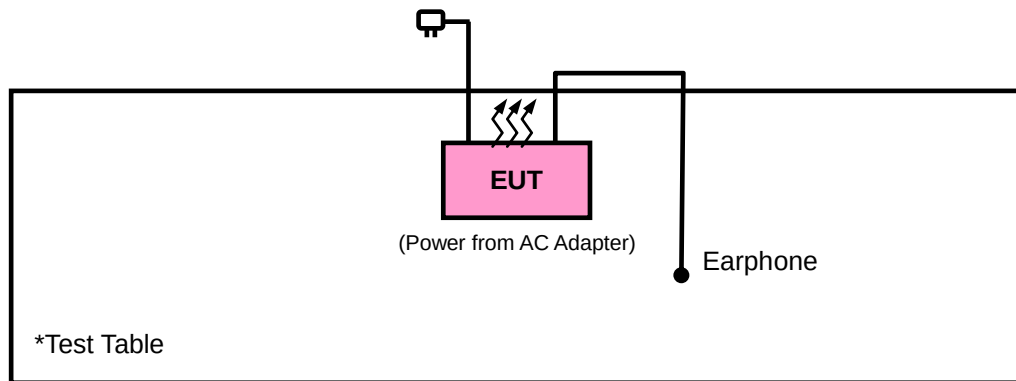
TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 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	David Huang
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.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



3.4 DUTY CYCLE OF TEST SIGNAL

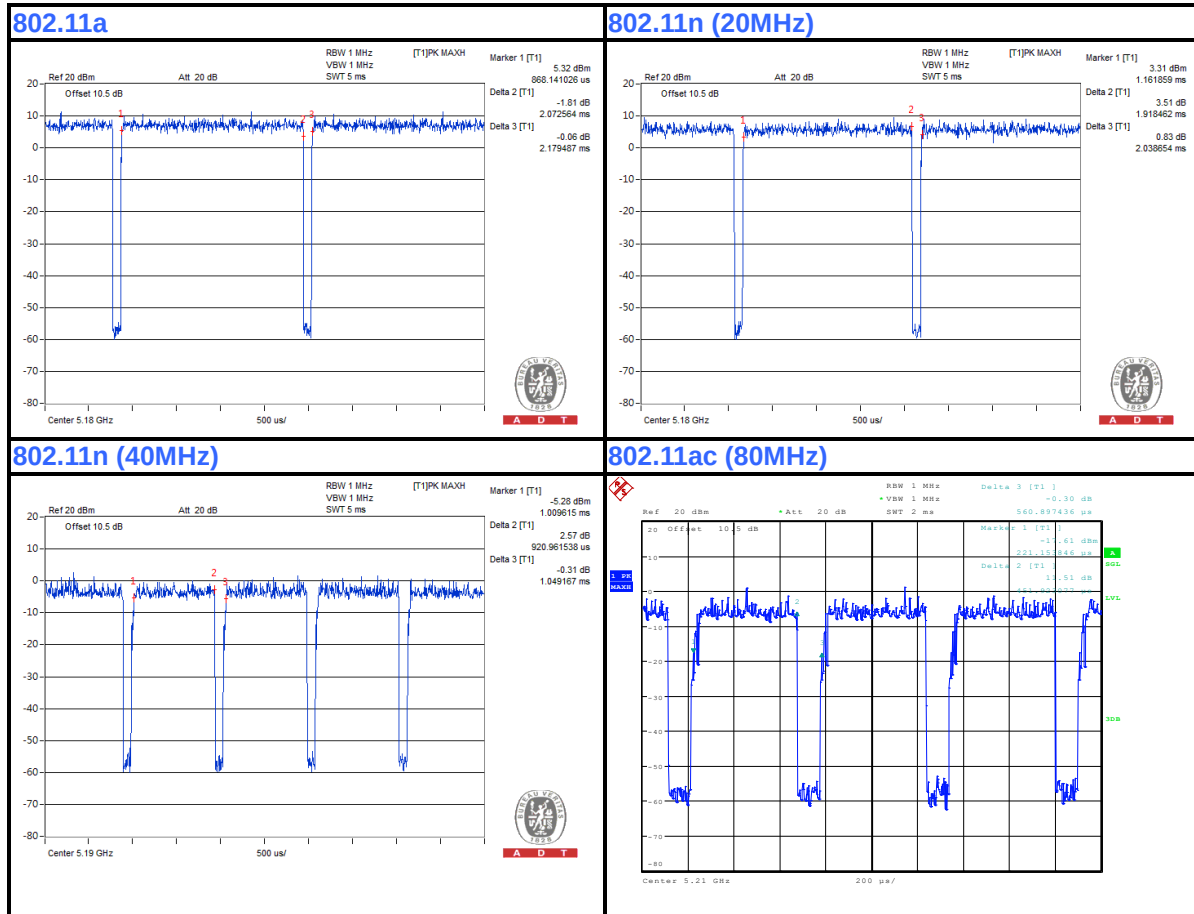
If duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = $2.07/2.18 = 0.950$, Duty factor = $10 * \log(1/0.950) = 0.22$

802.11n (20MHz): Duty cycle = $1.92/2.04 = 0.941$, Duty factor = $10 * \log(1/0.941) = 0.26$

802.11n (40MHz): Duty cycle = $0.921/1.049 = 0.878$, Duty factor = $10 * \log(1/0.878) = 0.57$

802.11ac (80MHz): Duty cycle = $0.452/0.561 = 0.806$, Duty factor = $10 * \log(1/0.806) = 0.94$



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 v01r01

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

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

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. 19, 2012	Apr. 18, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Apr. 03, 2012	Apr. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9120 D	209	Sep. 03, 2012	Sep. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170153	Jan. 17, 2012	Jan. 16, 2013
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 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	Jan. 02, 2012	Jan. 01, 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	1232002	Aug. 10, 2012	Aug. 09, 2013
Power Sensor	MA2411B	1207325	Aug. 15, 2012	Aug. 14, 2013

- 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 9.
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 460141.
6. The IC Site Registration No. is IC 7450F-4.

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.

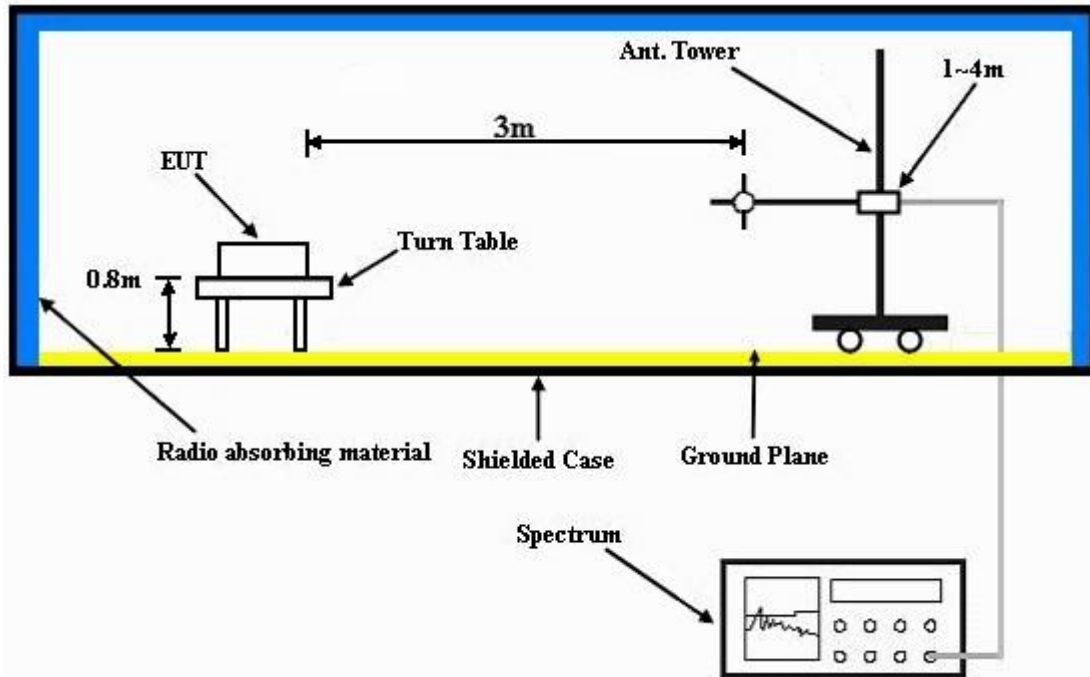
NOTE:

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 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

- Placed the EUT on a testing table.
- 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

TEST MODE A

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
5148	42.49	40.13	54	-11.51	32.35	7.33	37.32	100	39	Average
5148	55.74	53.38	74	-18.26	32.35	7.33	37.32	100	39	Peak
5180	90.55	88.19			32.38	7.32	37.34	100	39	Average
5180	99.48	97.12			32.38	7.32	37.34	100	39	Peak
5350	41.87	39.1	54	-12.13	32.55	7.4	37.18	100	39	Average
5350	54.03	51.26	74	-19.97	32.55	7.4	37.18	100	39	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
5146	43.5	41.14	54	-10.5	32.35	7.33	37.32	100	353	Average
5146	56.63	54.27	74	-17.37	32.35	7.33	37.32	100	353	Peak
5180	92.84	90.48			32.38	7.32	37.34	100	353	Average
5180	101.58	99.22			32.38	7.32	37.34	100	353	Peak
5390	41.93	39.13	54	-12.07	32.58	7.4	37.18	100	353	Average
5390	54.34	51.54	74	-19.66	32.58	7.4	37.18	100	353	Peak

REMARKS: 5180MHz: Fundamental frequency.

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
5138	42.13	39.76	54	-11.87	32.33	7.34	37.3	100	38	Average
5138	53.16	50.79	74	-20.84	32.33	7.34	37.3	100	38	Peak
5220	91.14	88.76			32.42	7.32	37.36	100	38	Average
5220	100.89	98.51			32.42	7.32	37.36	100	38	Peak
5440	43.2	40.23	54	-10.8	32.63	7.47	37.13	100	38	Average
5440	54.63	51.66	74	-19.37	32.63	7.47	37.13	100	38	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	42.4	40.03	54	-11.6	32.33	7.34	37.3	100	353	Average
5136	53.65	51.28	74	-20.35	32.33	7.34	37.3	100	353	Peak
5220	92.63	90.25			32.42	7.32	37.36	100	353	Average
5220	101.84	99.46			32.42	7.32	37.36	100	353	Peak
5374	41.8	39.01	54	-12.2	32.57	7.4	37.18	100	353	Average
5374	53.52	50.73	74	-20.48	32.57	7.4	37.18	100	353	Peak

REMARKS: 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
5060	40.12	37.85	54	-13.88	32.27	7.25	37.25	100	39	Average
5060	53.29	51.02	74	-20.71	32.27	7.25	37.25	100	39	Peak
5240	91.52	89.07			32.43	7.34	37.32	100	39	Average
5240	100.88	98.43			32.43	7.34	37.32	100	39	Peak
5370	42.35	39.56	54	-11.65	32.57	7.4	37.18	100	39	Average
5370	53.58	50.79	74	-20.42	32.57	7.4	37.18	100	39	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
5148	40.32	37.96	54	-13.68	32.35	7.33	37.32	100	352	Average
5148	52.54	50.18	74	-21.46	32.35	7.33	37.32	100	352	Peak
5240	91.78	89.33			32.43	7.34	37.32	100	352	Average
5240	100.93	98.48			32.43	7.34	37.32	100	352	Peak
5370	42.2	39.41	54	-11.8	32.57	7.4	37.18	100	352	Average
5370	53.63	50.84	74	-20.37	32.57	7.4	37.18	100	352	Peak

REMARKS: 5240MHz: Fundamental frequency.

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
5112	39.64	37.72	54	-14.36	31.85	7.35	37.28	106	344	Average
5112	51.38	49.46	74	-22.62	31.85	7.35	37.28	106	344	Peak
5260	90.77	88.76			31.92	7.36	37.27	106	344	Average
5260	100.24	98.23			31.92	7.36	37.27	106	344	Peak
5350	41.64	39.45	54	-12.36	31.97	7.4	37.18	106	344	Average
5350	56.35	54.16	74	-17.65	31.97	7.4	37.18	106	344	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
5112	39.89	37.97	54	-14.11	31.85	7.35	37.28	100	353	Average
5112	52.66	50.74	74	-21.34	31.85	7.35	37.28	100	353	Peak
5260	92.82	90.81			31.92	7.36	37.27	100	353	Average
5260	102.55	100.54			31.92	7.36	37.27	100	353	Peak
5350	41.65	39.46	54	-12.35	31.97	7.4	37.18	100	353	Average
5350	56.48	54.29	74	-17.52	31.97	7.4	37.18	100	353	Peak

REMARKS: 5260MHz: Fundamental frequency.

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
5082	39.7	37.84	54	-14.3	31.83	7.3	37.27	100	18	Average
5082	51.78	49.92	74	-22.22	31.83	7.3	37.27	100	18	Peak
5300	90.99	88.84			31.94	7.4	37.19	100	18	Average
5300	100.87	98.72			31.94	7.4	37.19	100	18	Peak
5378	44.02	41.82	54	-9.98	31.98	7.4	37.18	100	18	Average
5378	54.74	52.54	74	-19.26	31.98	7.4	37.18	100	18	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
5068	39.61	37.76	54	-14.39	31.82	7.3	37.27	100	355	Average
5068	51.77	49.92	74	-22.23	31.82	7.3	37.27	100	355	Peak
5300	95.53	93.38			31.94	7.4	37.19	100	355	Average
5300	104.79	102.64			31.94	7.4	37.19	100	355	Peak
5376	48.1	45.91	54	-5.9	31.97	7.4	37.18	100	355	Average
5376	58.91	56.72	74	-15.09	31.97	7.4	37.18	100	355	Peak

REMARKS: 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
5112	39.67	37.75	54	-14.33	31.85	7.35	37.28	104	346	Average
5112	52.58	50.66	74	-21.42	31.85	7.35	37.28	104	346	Peak
5320	92.56	90.4			31.95	7.4	37.19	104	346	Average
5320	102.33	100.17			31.95	7.4	37.19	104	346	Peak
5350	47.4	45.21	54	-6.6	31.97	7.4	37.18	104	346	Average
5350	60.53	58.34	74	-13.47	31.97	7.4	37.18	104	346	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
5088	39.88	38.02	54	-14.12	31.83	7.3	37.27	100	355	Average
5088	51.38	49.52	74	-22.62	31.83	7.3	37.27	100	355	Peak
5320	94.45	92.29			31.95	7.4	37.19	100	355	Average
5320	104.08	101.92			31.95	7.4	37.19	100	355	Peak
5350	47.21	45.02	54	-6.79	31.97	7.4	37.18	100	355	Average
5350	59.14	56.95	74	-14.86	31.97	7.4	37.18	100	355	Peak

REMARKS: 5320MHz: Fundamental frequency.

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
5424	44.05	41.83	54	-9.95	32	7.4	37.18	100	340	Average
5424	55.47	53.25	74	-18.53	32	7.4	37.18	100	340	Peak
5470	56.7	54.23	68.3	-11.6	32.02	7.53	37.08	100	340	Peak
5500	94.46	91.86			32.04	7.59	37.03	100	340	Average
5500	103.66	101.06			32.04	7.59	37.03	100	340	Peak
5725	53.95	51.31	68.3	-14.35	32.36	7.71	37.43	100	340	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
5422	42.81	40.59	54	-11.19	32	7.4	37.18	113	322	Average
5422	53.68	51.46	74	-20.32	32	7.4	37.18	113	322	Peak
5470	54.93	52.46	68.3	-13.37	32.02	7.53	37.08	113	322	Peak
5500	92.76	90.16			32.04	7.59	37.03	113	322	Average
5500	102.23	99.63			32.04	7.59	37.03	113	322	Peak
5725	50.76	48.12	68.3	-17.54	32.36	7.71	37.43	113	322	Peak

REMARKS:

- 5500MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

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
5452	40.39	37.93	54	-13.61	32.01	7.53	37.08	100	353	Average
5452	52.56	50.1	74	-21.44	32.01	7.53	37.08	100	353	Peak
5470	50.49	48.02	68.3	-17.81	32.02	7.53	37.08	100	353	Peak
5580	95.61	93.06			32.14	7.57	37.16	100	353	Average
5580	104.79	102.24			32.14	7.57	37.16	100	353	Peak
5725	52.71	50.07	68.3	-15.59	32.36	7.71	37.43	100	353	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	40.31	37.85	54	-13.69	32.01	7.53	37.08	114	330	Average
5458	51.79	49.33	74	-22.21	32.01	7.53	37.08	114	330	Peak
5470	51.33	48.86	68.3	-16.97	32.02	7.53	37.08	114	330	Peak
5580	93.51	90.96			32.14	7.57	37.16	114	330	Average
5580	103.4	100.85			32.14	7.57	37.16	114	330	Peak
5725	51.28	48.64	68.3	-17.02	32.36	7.71	37.43	114	330	Peak

REMARKS:

- 5580MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

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
5410	40.34	38.13	54	-13.66	31.99	7.4	37.18	100	353	Average
5410	52.49	50.28	74	-21.51	31.99	7.4	37.18	100	353	Peak
5470	50.99	48.52	68.3	-17.31	32.02	7.53	37.08	100	353	Peak
5700	95.14	92.54			32.31	7.69	37.4	100	353	Average
5700	104.68	102.08			32.31	7.69	37.4	100	353	Peak
5725	62.48	59.84	68.3	-5.82	32.36	7.71	37.43	100	353	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
5356	40.05	37.86	54	-13.95	31.97	7.4	37.18	103	339	Average
5356	52.29	50.1	74	-21.71	31.97	7.4	37.18	103	339	Peak
5470	50.55	48.08	68.3	-17.75	32.02	7.53	37.08	103	339	Peak
5700	92.92	90.32			32.31	7.69	37.4	103	339	Average
5700	102.81	100.21			32.31	7.69	37.4	103	339	Peak
5725	60.61	57.97	68.3	-7.69	32.36	7.71	37.43	103	339	Peak

REMARKS:

- 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	41.61	39.73	54	-12.39	31.87	7.33	37.32	103	15	Average
5150	53.49	51.61	74	-20.51	31.87	7.33	37.32	103	15	Peak
5180	89.86	88			31.88	7.32	37.34	103	15	Average
5180	98.64	96.78			31.88	7.32	37.34	103	15	Peak
5352	41.12	38.93	54	-12.88	31.97	7.4	37.18	103	15	Average
5352	52.51	50.32	74	-21.49	31.97	7.4	37.18	103	15	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
5148	41.28	39.4	54	-12.72	31.87	7.33	37.32	100	352	Average
5148	54	52.12	74	-20	31.87	7.33	37.32	100	352	Peak
5180	89.62	87.76			31.88	7.32	37.34	100	352	Average
5180	99.37	97.51			31.88	7.32	37.34	100	352	Peak
5406	41.07	38.86	54	-12.93	31.99	7.4	37.18	100	352	Average
5406	52.71	50.5	74	-21.29	31.99	7.4	37.18	100	352	Peak

REMARKS: 5180MHz: Fundamental frequency.

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
5106	40.92	39	54	-13.08	31.85	7.35	37.28	100	20	Average
5106	51.8	49.88	74	-22.2	31.85	7.35	37.28	100	20	Peak
5220	89.77	87.91			31.9	7.32	37.36	100	20	Average
5220	99.17	97.31			31.9	7.32	37.36	100	20	Peak
5430	40.85	38.5	54	-13.15	32.01	7.47	37.13	100	20	Average
5430	52.17	49.82	74	-21.83	32.01	7.47	37.13	100	20	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
5148	41.4	39.52	54	-12.6	31.87	7.33	37.32	100	355	Average
5148	52.37	50.49	74	-21.63	31.87	7.33	37.32	100	355	Peak
5220	91.92	90.06			31.9	7.32	37.36	100	355	Average
5220	100.57	98.71			31.9	7.32	37.36	100	355	Peak
5400	41.2	38.99	54	-12.8	31.99	7.4	37.18	100	355	Average
5400	52.46	50.25	74	-21.54	31.99	7.4	37.18	100	355	Peak

REMARKS: 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
5114	39.86	37.94	54	-14.14	31.85	7.35	37.28	100	42	Average
5114	51.48	49.56	74	-22.52	31.85	7.35	37.28	100	42	Peak
5240	89.76	87.83			31.91	7.34	37.32	100	42	Average
5240	99.17	97.24			31.91	7.34	37.32	100	42	Peak
5350	41.74	39.55	54	-12.26	31.97	7.4	37.18	100	42	Average
5350	54.02	51.83	74	-19.98	31.97	7.4	37.18	100	42	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
5046	39.83	38.01	54	-14.17	31.82	7.25	37.25	100	354	Average
5046	52.05	50.23	74	-21.95	31.82	7.25	37.25	100	354	Peak
5240	92.07	90.14			31.91	7.34	37.32	100	354	Average
5240	101.72	99.79			31.91	7.34	37.32	100	354	Peak
5452	41.34	38.88	54	-12.66	32.01	7.53	37.08	100	354	Average
5452	52.47	50.01	74	-21.53	32.01	7.53	37.08	100	354	Peak

REMARKS: 5240MHz: Fundamental frequency.

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
5040	39.59	37.82	54	-14.41	31.82	7.19	37.24	100	20	Average
5040	51.43	49.66	74	-22.57	31.82	7.19	37.24	100	20	Peak
5260	90.82	88.81			31.92	7.36	37.27	100	20	Average
5260	100.41	98.4			31.92	7.36	37.27	100	20	Peak
5350	41.12	38.93	54	-12.88	31.97	7.4	37.18	100	20	Average
5350	55.6	53.41	74	-18.4	31.97	7.4	37.18	100	20	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
5066	39.72	37.9	54	-14.28	31.82	7.25	37.25	100	356	Average
5066	51.31	49.49	74	-22.69	31.82	7.25	37.25	100	356	Peak
5260	93.41	91.4			31.92	7.36	37.27	100	356	Average
5260	102.5	100.49			31.92	7.36	37.27	100	356	Peak
5350	41.72	39.53	54	-12.28	31.97	7.4	37.18	100	356	Average
5350	57.2	55.01	74	-16.8	31.97	7.4	37.18	100	356	Peak

REMARKS: 5260MHz: Fundamental frequency.

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
5150	40.07	38.19	54	-13.93	31.87	7.33	37.32	100	349	Average
5150	51.46	49.58	74	-22.54	31.87	7.33	37.32	100	349	Peak
5300	92.77	90.62			31.94	7.4	37.19	100	349	Average
5300	101.83	99.68			31.94	7.4	37.19	100	349	Peak
5386	46.85	44.65	54	-7.15	31.98	7.4	37.18	100	349	Average
5386	57.11	54.91	74	-16.89	31.98	7.4	37.18	100	349	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	40.15	38.27	54	-13.85	31.87	7.33	37.32	100	336	Average
5150	48.43	46.55	74	-25.57	31.87	7.33	37.32	100	336	Peak
5300	93.61	91.46			31.94	7.4	37.19	100	336	Average
5300	102.24	100.09			31.94	7.4	37.19	100	336	Peak
5374	47.79	45.6	54	-6.21	31.97	7.4	37.18	100	336	Average
5374	58.48	56.29	74	-15.52	31.97	7.4	37.18	100	336	Peak

REMARKS: 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
5046	38.91	37.67	54	-15.09	31.24	7.25	37.25	103	350	Average
5046	50.92	49.68	74	-23.08	31.24	7.25	37.25	103	350	Peak
5320	94.14	92.48			31.45	7.4	37.19	103	350	Average
5320	103.66	102			31.45	7.4	37.19	103	350	Peak
5392	47.63	45.9	54	-6.37	31.51	7.4	37.18	103	350	Average
5392	58.4	56.67	74	-15.6	31.51	7.4	37.18	103	350	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
5084	38.99	37.69	54	-15.01	31.27	7.3	37.27	110	348	Average
5084	51.08	49.78	74	-22.92	31.27	7.3	37.27	110	348	Peak
5320	92.89	91.23			31.45	7.4	37.19	110	348	Average
5320	102.01	100.35			31.45	7.4	37.19	110	348	Peak
5350	46.28	44.58	54	-7.72	31.48	7.4	37.18	110	348	Average
5350	57.5	55.8	74	-16.5	31.48	7.4	37.18	110	348	Peak

REMARKS: 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
5424	45.19	42.97	54	-8.81	32	7.4	37.18	100	341	Average
5424	55.26	53.04	74	-18.74	32	7.4	37.18	100	341	Peak
5470	59.97	57.5	68.3	-8.33	32.02	7.53	37.08	100	341	Peak
5500	94.98	92.38			32.04	7.59	37.03	100	341	Average
5500	103.85	101.25			32.04	7.59	37.03	100	341	Peak
5725	51.64	49	68.3	-16.66	32.36	7.71	37.43	100	341	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
5416	42.76	40.54	54	-11.24	32	7.4	37.18	100	303	Average
5416	54.04	51.82	74	-19.96	32	7.4	37.18	100	303	Peak
5470	55.66	53.19	68.3	-12.64	32.02	7.53	37.08	100	303	Peak
5500	93.24	90.64			32.04	7.59	37.03	100	303	Average
5500	102.24	99.64			32.04	7.59	37.03	100	303	Peak
5725	50.45	47.81	68.3	-17.85	32.36	7.71	37.43	100	303	Peak

REMARKS:

1. 5500MHz: Fundamental frequency.
2. 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	40.68	38.22	54	-13.32	32.01	7.53	37.08	100	341	Average
5460	51.1	48.64	74	-22.9	32.01	7.53	37.08	100	341	Peak
5470	52.32	49.85	68.3	-15.98	32.02	7.53	37.08	100	341	Peak
5580	94.88	92.33			32.14	7.57	37.16	100	341	Average
5580	104.12	101.57			32.14	7.57	37.16	100	341	Peak
5725	51.49	48.85	68.3	-16.81	32.36	7.71	37.43	100	341	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
5460	40.4	37.94	54	-13.6	32.01	7.53	37.08	100	5	Average
5460	50.65	48.19	74	-23.35	32.01	7.53	37.08	100	5	Peak
5470	50.03	47.56	68.3	-18.27	32.02	7.53	37.08	100	5	Peak
5580	92.2	89.65			32.14	7.57	37.16	100	5	Average
5580	101.8	99.25			32.14	7.57	37.16	100	5	Peak
5725	51.51	48.87	68.3	-16.79	32.36	7.71	37.43	100	5	Peak

REMARKS:

- 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	40.48	38.02	54	-13.52	32.01	7.53	37.08	100	355	Average
5460	50.83	48.37	74	-23.17	32.01	7.53	37.08	100	355	Peak
5470	49.56	47.09	68.3	-18.74	32.02	7.53	37.08	100	355	Peak
5700	94.52	91.92			32.31	7.69	37.4	100	355	Average
5700	103.84	101.24			32.31	7.69	37.4	100	355	Peak
5725	67.16	64.52	68.3	-1.14	32.36	7.71	37.43	100	355	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
5460	40.65	38.19	54	-13.35	32.01	7.53	37.08	100	153	Average
5460	50.01	47.55	74	-23.99	32.01	7.53	37.08	100	153	Peak
5470	50.62	48.15	68.3	-17.68	32.02	7.53	37.08	100	153	Peak
5700	94.66	92.06			32.31	7.69	37.4	100	153	Average
5700	103.77	101.17			32.31	7.69	37.4	100	153	Peak
5725	67.06	64.42	68.3	-1.24	32.36	7.71	37.43	100	153	Peak

REMARKS:

1. 5700MHz: Fundamental frequency.
2. 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
5150	41.91	40.03	54	-12.09	31.87	7.33	37.32	100	18	Average
5150	53.42	51.54	74	-20.58	31.87	7.33	37.32	100	18	Peak
5190	84.16	82.3			31.88	7.32	37.34	100	18	Average
5190	93.88	92.02			31.88	7.32	37.34	100	18	Peak
5350	40.52	38.33	54	-13.48	31.97	7.4	37.18	100	18	Average
5350	51.12	48.93	74	-22.88	31.97	7.4	37.18	100	18	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	42.99	41.11	54	-11.01	31.87	7.33	37.32	100	353	Average
5150	54.9	53.02	74	-19.1	31.87	7.33	37.32	100	353	Peak
5190	86.19	84.33			31.88	7.32	37.34	100	353	Average
5190	95.53	93.67			31.88	7.32	37.34	100	353	Peak
5350	40.61	38.42	54	-13.39	31.97	7.4	37.18	100	353	Average
5350	50.97	48.78	74	-23.03	31.97	7.4	37.18	100	353	Peak

REMARKS: 5190MHz: Fundamental frequency.

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
5150	40.23	38.35	54	-13.77	31.87	7.33	37.32	100	18	Average
5150	49.42	47.54	74	-24.58	31.87	7.33	37.32	100	18	Peak
5230	85.9	83.97			31.91	7.34	37.32	100	18	Average
5230	94.66	92.73			31.91	7.34	37.32	100	18	Peak
5350	40.43	38.24	54	-13.57	31.97	7.4	37.18	100	18	Average
5350	50.06	47.87	74	-23.94	31.97	7.4	37.18	100	18	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	40.43	38.55	54	-13.57	31.87	7.33	37.32	100	352	Average
5150	49.07	47.19	74	-24.93	31.87	7.33	37.32	100	352	Peak
5230	87.16	85.23			31.91	7.34	37.32	100	352	Average
5230	96.5	94.57			31.91	7.34	37.32	100	352	Peak
5350	40.51	38.32	54	-13.49	31.97	7.4	37.18	100	352	Average
5350	50.1	47.91	74	-23.9	31.97	7.4	37.18	100	352	Peak

REMARKS: 5230MHz: Fundamental frequency.

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
5150	40.4	38.52	54	-13.6	31.87	7.33	37.32	100	350	Average
5150	50.04	48.16	74	-23.96	31.87	7.33	37.32	100	350	Peak
5270	86.63	84.62			31.92	7.36	37.27	100	350	Average
5270	95.9	93.89			31.92	7.36	37.27	100	350	Peak
5350	40.43	38.24	54	-13.57	31.97	7.4	37.18	100	350	Average
5350	52.38	50.19	74	-21.62	31.97	7.4	37.18	100	350	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	40.22	38.34	54	-13.78	31.87	7.33	37.32	100	1	Average
5150	50.93	49.05	74	-23.07	31.87	7.33	37.32	100	1	Peak
5270	87.66	85.65			31.92	7.36	37.27	100	1	Average
5270	97.4	95.39			31.92	7.36	37.27	100	1	Peak
5350	40.61	38.42	54	-13.39	31.97	7.4	37.18	100	1	Average
5350	52.24	50.05	74	-21.76	31.97	7.4	37.18	100	1	Peak

REMARKS: 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
5150	40.07	38.19	54	-13.93	31.87	7.33	37.32	100	33	Average
5150	50.98	49.1	74	-23.02	31.87	7.33	37.32	100	33	Peak
5310	86.7	84.54			31.95	7.4	37.19	100	33	Average
5310	95.46	93.3			31.95	7.4	37.19	100	33	Peak
5350	41.93	39.74	54	-12.07	31.97	7.4	37.18	100	33	Average
5350	55.31	53.12	74	-18.69	31.97	7.4	37.18	100	33	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	40.26	38.38	54	-13.74	31.87	7.33	37.32	100	330	Average
5150	49.78	47.9	74	-24.22	31.87	7.33	37.32	100	330	Peak
5310	87.23	85.07			31.95	7.4	37.19	100	330	Average
5310	96.52	94.36			31.95	7.4	37.19	100	330	Peak
5350	45.69	43.5	54	-8.31	31.97	7.4	37.18	100	330	Average
5350	57.7	55.51	74	-16.3	31.97	7.4	37.18	100	330	Peak

REMARKS: 5310MHz: Fundamental frequency.

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
5460	41.77	39.31	54	-12.23	32.01	7.53	37.08	100	341	Average
5460	52.22	49.76	74	-21.78	32.01	7.53	37.08	100	341	Peak
5470	55.7	53.23	68.3	-12.6	32.02	7.53	37.08	100	341	Peak
5510	87.03	84.46			32.04	7.59	37.06	100	341	Average
5510	96.32	93.75			32.04	7.59	37.06	100	341	Peak
5725	52.21	49.57	68.3	-16.09	32.36	7.71	37.43	100	341	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
5460	41.54	39.08	54	-12.46	32.01	7.53	37.08	100	308	Average
5460	53.21	50.75	74	-20.79	32.01	7.53	37.08	100	308	Peak
5470	58.12	55.65	68.3	-10.18	32.02	7.53	37.08	100	308	Peak
5510	86.99	84.42			32.04	7.59	37.06	100	308	Average
5510	96.63	94.06			32.04	7.59	37.06	100	308	Peak
5725	52.85	50.21	68.3	-15.45	32.36	7.71	37.43	100	308	Peak

REMARKS:

- 5510MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

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
5460	40.53	38.07	54	-13.47	32.01	7.53	37.08	100	350	Average
5460	51.41	48.95	74	-22.59	32.01	7.53	37.08	100	350	Peak
5470	52.04	49.57	68.3	-16.26	32.02	7.53	37.08	100	350	Peak
5550	88.32	85.72			32.11	7.58	37.09	100	350	Average
5550	97.91	95.31			32.11	7.58	37.09	100	350	Peak
5725	53.76	51.12	68.3	-14.54	32.36	7.71	37.43	100	350	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
5460	40.33	37.87	54	-13.67	32.01	7.53	37.08	100	306	Average
5460	50.01	47.55	74	-23.99	32.01	7.53	37.08	100	306	Peak
5470	50.53	48.06	68.3	-17.77	32.02	7.53	37.08	100	306	Peak
5550	88.6	86			32.11	7.58	37.09	100	306	Average
5550	98.41	95.81			32.11	7.58	37.09	100	306	Peak
5725	51.19	48.55	68.3	-17.11	32.36	7.71	37.43	100	306	Peak

REMARKS:

- 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
5460	40.31	37.85	54	-13.69	32.01	7.53	37.08	100	119	Average
5460	50.46	48	74	-23.54	32.01	7.53	37.08	100	119	Peak
5470	50.12	47.65	68.3	-18.18	32.02	7.53	37.08	100	119	Peak
5670	86.85	84.25			32.28	7.66	37.34	100	119	Average
5670	96.15	93.55			32.28	7.66	37.34	100	119	Peak
5725	51.5	48.86	68.3	-16.8	32.36	7.71	37.43	100	119	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
5460	40.38	37.92	54	-13.62	32.01	7.53	37.08	100	316	Average
5460	50.46	48	74	-23.54	32.01	7.53	37.08	100	316	Peak
5470	49.77	47.3	68.3	-18.53	32.02	7.53	37.08	100	316	Peak
5670	88.04	85.44			32.28	7.66	37.34	100	316	Average
5670	97.47	94.87			32.28	7.66	37.34	100	316	Peak
5725	52.45	49.81	68.3	-15.85	32.36	7.71	37.43	100	316	Peak

REMARKS:

1. 5670MHz: Fundamental frequency.
2. 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	44.26	42.93	54	-9.74	31.32	7.33	37.32	106	351	Average
5150	57.07	55.74	74	-16.93	31.32	7.33	37.32	106	351	Peak
5210	84.93	83.6			31.37	7.32	37.36	106	351	Average
5210	94.1	92.77			31.37	7.32	37.36	106	351	Peak
5454	41.26	39.25	54	-12.74	31.56	7.53	37.08	106	351	Average
5454	51.73	49.72	74	-22.27	31.56	7.53	37.08	106	351	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	43.1	41.77	54	-10.9	31.32	7.33	37.32	100	340	Average
5150	54.87	53.54	74	-19.13	31.32	7.33	37.32	100	340	Peak
5210	82.14	80.81			31.37	7.32	37.36	100	340	Average
5210	91.35	90.02			31.37	7.32	37.36	100	340	Peak
5460	40.88	38.87	54	-13.12	31.56	7.53	37.08	100	340	Average
5460	52.01	50	74	-21.99	31.56	7.53	37.08	100	340	Peak

REMARKS: 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
5134	40.02	38.67	54	-13.98	31.31	7.34	37.3	104	350	Average
5134	50.93	49.58	74	-23.07	31.31	7.34	37.3	104	350	Peak
5290	85.45	83.87			31.43	7.38	37.23	104	350	Average
5290	94.75	93.17			31.43	7.38	37.23	104	350	Peak
5350	48.76	47.06	54	-5.24	31.48	7.4	37.18	104	350	Average
5350	64.44	62.74	74	-9.56	31.48	7.4	37.18	104	350	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
5146	39.93	38.6	54	-14.07	31.32	7.33	37.32	100	347	Average
5146	50.88	49.55	74	-23.12	31.32	7.33	37.32	100	347	Peak
5290	82.55	80.97			31.43	7.38	37.23	100	347	Average
5290	91.88	90.3			31.43	7.38	37.23	100	347	Peak
5350	46.9	45.2	54	-7.1	31.48	7.4	37.18	100	347	Average
5350	61.42	59.72	74	-12.58	31.48	7.4	37.18	100	347	Peak

REMARKS: 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
5460	47.24	45.23	54	-6.76	31.56	7.53	37.08	100	351	Average
5460	57.8	55.79	74	-16.20	31.56	7.53	37.08	100	351	Peak
5470	59.48	57.46	68.3	-8.82	31.57	7.53	37.08	100	351	Peak
5530	93.51	91.39			31.63	7.58	37.09	100	351	Average
5530	97.31	95.19			31.63	7.58	37.09	100	351	Peak
5725	51.08	48.84	68.3	-17.22	31.96	7.71	37.43	100	351	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
5456	46	43.99	54	-8	31.56	7.53	37.08	100	315	Average
5456	58.22	56.21	74	-15.78	31.56	7.53	37.08	100	315	Peak
5470	56.6	54.58	68.3	-11.7	31.57	7.53	37.08	100	315	Peak
5530	92.26	90.14			31.63	7.58	37.09	100	315	Average
5530	96.93	94.81			31.63	7.58	37.09	100	315	Peak
5725	51.56	49.32	68.3	-16.74	31.96	7.71	37.43	100	315	Peak

REMARKS: 5530MHz: Fundamental frequency.

TEST MODE B

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
5148	45.03	43.7	54	-8.97	31.32	7.33	37.32	106	19	Average
5148	62.39	61.06	74	-11.61	31.32	7.33	37.32	106	19	Peak
5210	87.25	85.92			31.37	7.32	37.36	106	19	Average
5210	93.33	92			31.37	7.32	37.36	106	19	Peak
5430	40.23	38.34	54	-13.77	31.55	7.47	37.13	106	19	Average
5430	51.7	49.81	74	-22.3	31.55	7.47	37.13	106	19	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
5148	43.07	41.74	54	-10.93	31.32	7.33	37.32	100	36	Average
5148	56.17	54.84	74	-17.83	31.32	7.33	37.32	100	36	Peak
5210	84.51	83.18			31.37	7.32	37.36	100	36	Average
5210	90.54	89.21			31.37	7.32	37.36	100	36	Peak
5446	39.93	38.03	54	-14.07	31.56	7.47	37.13	100	36	Average
5446	51.42	49.52	74	-22.58	31.56	7.47	37.13	100	36	Peak

REMARKS: 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
5094	39.77	38.42	54	-14.23	31.28	7.35	37.28	125	37	Average
5094	51.17	49.82	74	-22.83	31.28	7.35	37.28	125	37	Peak
5290	85.12	83.54			31.43	7.38	37.23	125	37	Average
5290	93.49	91.91			31.43	7.38	37.23	125	37	Peak
5362	47.64	45.93	54	-6.36	31.49	7.4	37.18	125	37	Average
5362	62.44	60.73	74	-11.56	31.49	7.4	37.18	125	37	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
5086	39.7	38.4	54	-14.3	31.27	7.3	37.27	100	98	Average
5086	50.28	48.98	74	-23.72	31.27	7.3	37.27	100	98	Peak
5290	81.96	80.38			31.43	7.38	37.23	100	98	Average
5290	90.45	88.87			31.43	7.38	37.23	100	98	Peak
5352	46.41	44.71	54	-7.59	31.48	7.4	37.18	100	98	Average
5352	58.73	57.03	74	-15.27	31.48	7.4	37.18	100	98	Peak

REMARKS: 5290MHz: Fundamental frequency.



A D T

802.11n (20MHz)

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
5428	39.21	37.34	54	-14.79	31.53	7.47	37.13	100	91	Average
5428	52.01	50.14	74	-21.99	31.53	7.47	37.13	100	91	Peak
5470	49.63	47.61	68.3	-18.67	31.57	7.53	37.08	100	91	Peak
5700	90.38	88.19			31.9	7.69	37.4	100	91	Average
5700	99.65	97.46			31.9	7.69	37.4	100	91	Peak
5725	64.95	62.71	68.3	-3.35	31.96	7.71	37.43	100	91	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
5460	39.34	34.94	54	-14.66	31.56	7.53	34.69	100	215	Average
5460	51.47	47.07	74	-22.53	31.56	7.53	34.69	100	215	Peak
5470	49.86	45.45	68.3	-18.44	31.57	7.53	34.69	100	215	Peak
5700	88.68	83.87			31.9	7.69	34.78	100	215	Average
5700	98.94	94.13			31.9	7.69	34.78	100	215	Peak
5725	64.18	59.28	68.3	-4.12	31.96	7.71	34.77	100	215	Peak

REMARKS:

- 5700MHz: Fundamental frequency.
- 5470MHz & 5725MHz: Out of restricted band

BELOW 1GHz WORST-CASE DATA : 802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	30MHz ~ 1GHz
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
33.24	28.15	46.19	40	-11.85	12.47	0.58	31.09	112	317	Peak
42.69	24.7	41.5	40	-15.30	13.58	0.7	31.08	112	246	Peak
111.81	25.29	45.82	43.5	-18.21	10.18	1.14	31.85	112	249	Peak
328.7	20.67	36.7	46	-25.33	13.64	2.15	31.82	107	249	Peak
509.3	22.31	33.56	46	-23.69	17.53	2.81	31.59	101	218	Peak
657.7	25.28	33.67	46	-20.72	20.3	3.27	31.96	106	265	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
33.51	34.01	51.87	40	-5.99	12.63	0.59	31.08	100	2	QP
42.15	36.22	53.02	40	-3.78	13.58	0.7	31.08	103	222	Peak
55.38	30.3	48.38	40	-9.70	12.45	0.8	31.33	104	218	Peak
423.9	19.41	33.11	46	-26.59	15.81	2.52	32.03	108	345	Peak
588.4	23.1	32.84	46	-22.9	19.34	3.06	32.14	102	135	Peak
709.5	25.57	32.89	46	-20.43	20.96	3.46	31.74	112	250	Peak

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ 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	100311	Jul. 06, 2012	Jul. 05, 2013
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

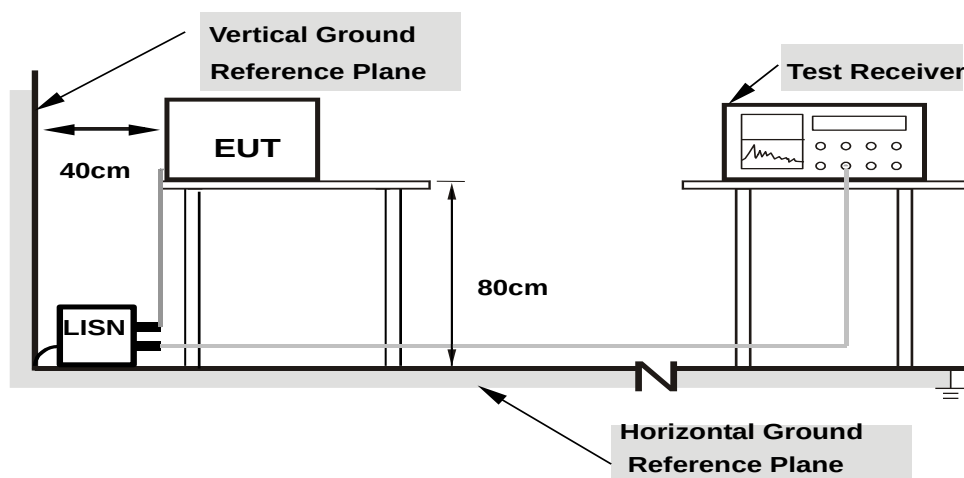
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

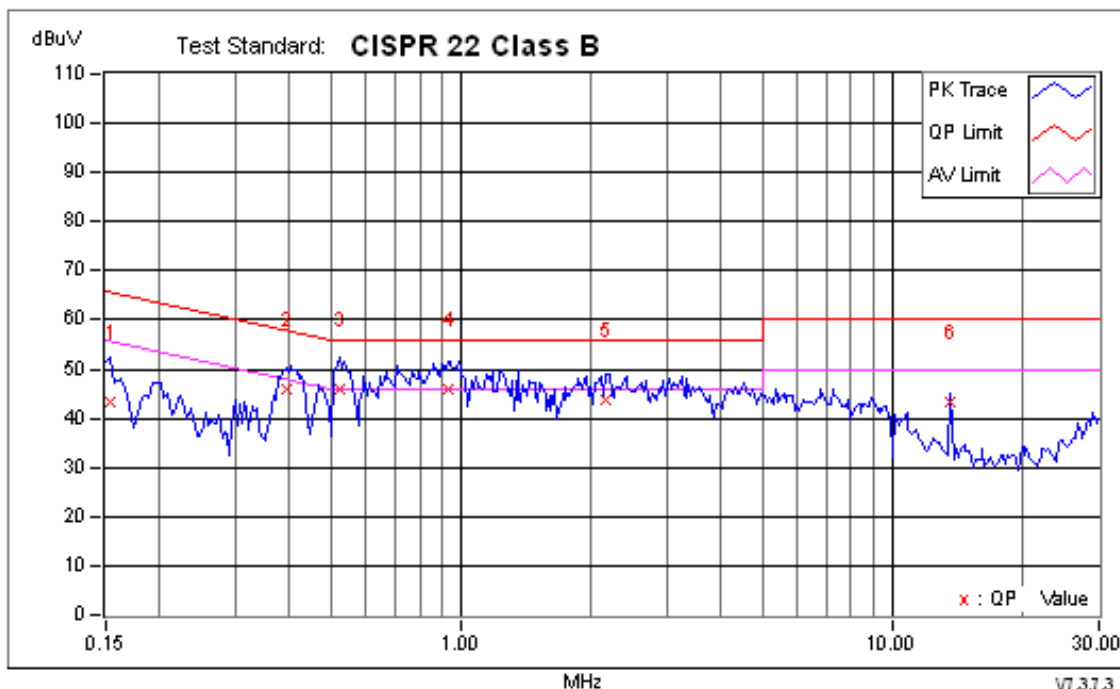
Same as 4.1.6.

4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11n (20MHz)

TEST MODE A

PHASE	Line 1	6dB BANDWIDTH	9kHz
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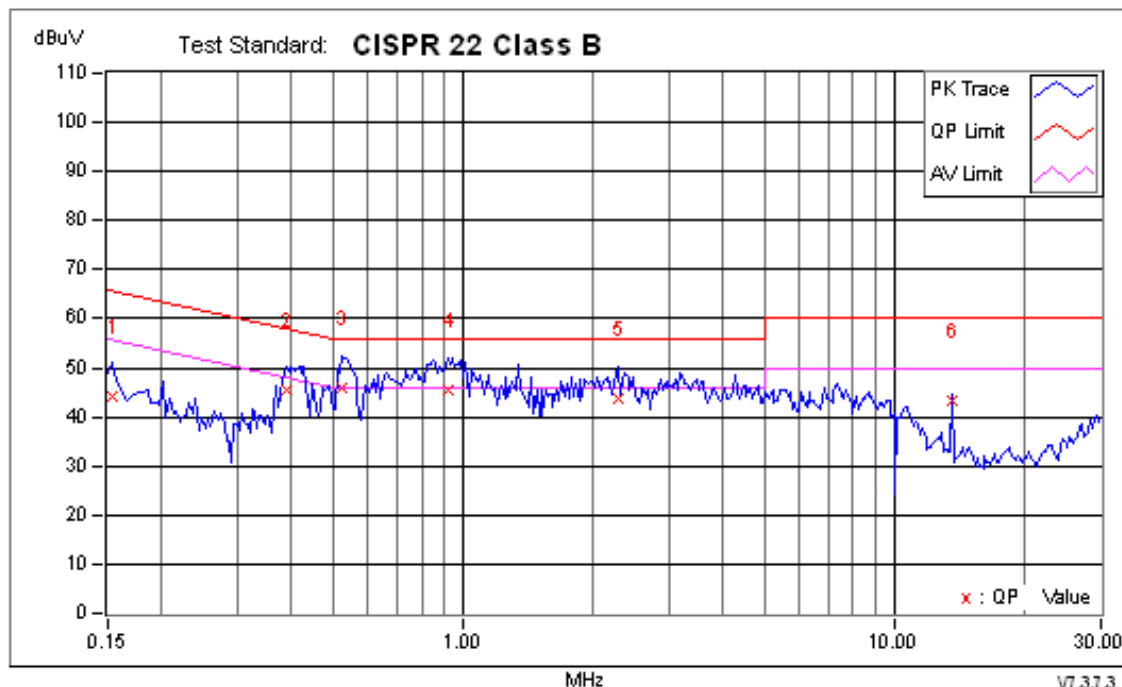


	Frequency	Corr. Factor	Reading dBUV		Emission dBUV		Limit dBUV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	Notes
1	0.15391	0.17	43.03	28.39	43.20	28.56	65.79	55.79	-22.58	-27.22	
2	0.39219	0.21	45.80	36.64	46.01	36.85	58.02	48.02	-12.01	-11.17	
3	0.52500	0.22	45.73	32.97	45.95	33.19	56.00	46.00	-10.05	-12.81	
4	0.93125	0.25	45.83	34.33	46.08	34.58	56.00	46.00	-9.92	-11.42	
5	2.15234	0.30	43.47	35.78	43.77	36.08	56.00	46.00	-12.23	-9.92	
+6	13.56250	0.53	42.83	41.14	43.36	41.67	60.00	50.00	-16.64	-8.33	

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
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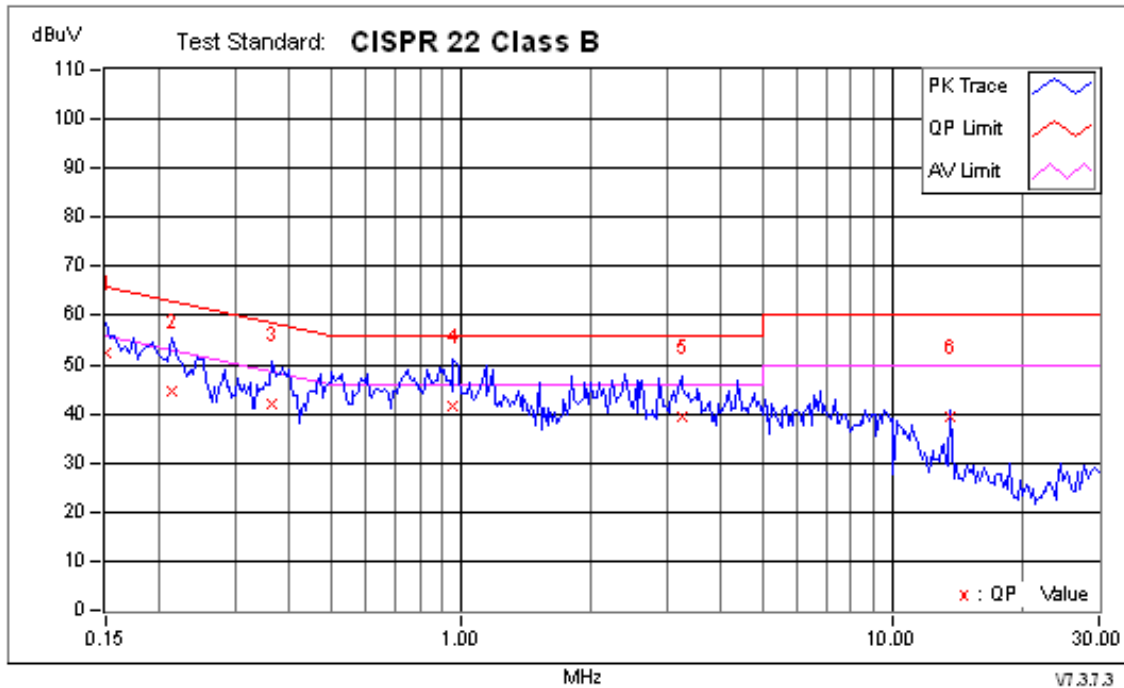
	Frequency	Corr. Factor	Reading dBuV	Emission dBuV	Limit dBuV	Margins dB	Notes
No.	MHz	dB	QP	AV	QP	AV	Notes
1	0.15391	0.16	43.80	29.29	43.96	29.45	65.79 55.79 -21.83 -26.34
2	0.38828	0.20	45.46	32.54	45.66	32.74	58.10 48.10 -12.44 -15.36
3	0.52500	0.21	45.73	34.80	45.94	35.01	56.00 46.00 -10.06 -10.99
4	0.91953	0.25	45.21	34.66	45.46	34.91	56.00 46.00 -10.54 -11.09
5	2.28516	0.30	43.42	35.40	43.72	35.70	56.00 46.00 -12.28 -10.30
+6	13.55859	0.59	42.55	40.88	43.14	41.47	60.00 50.00 -16.86 -8.53

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.

TEST MODE B

PHASE	Line 1	6dB BANDWIDTH	9kHz
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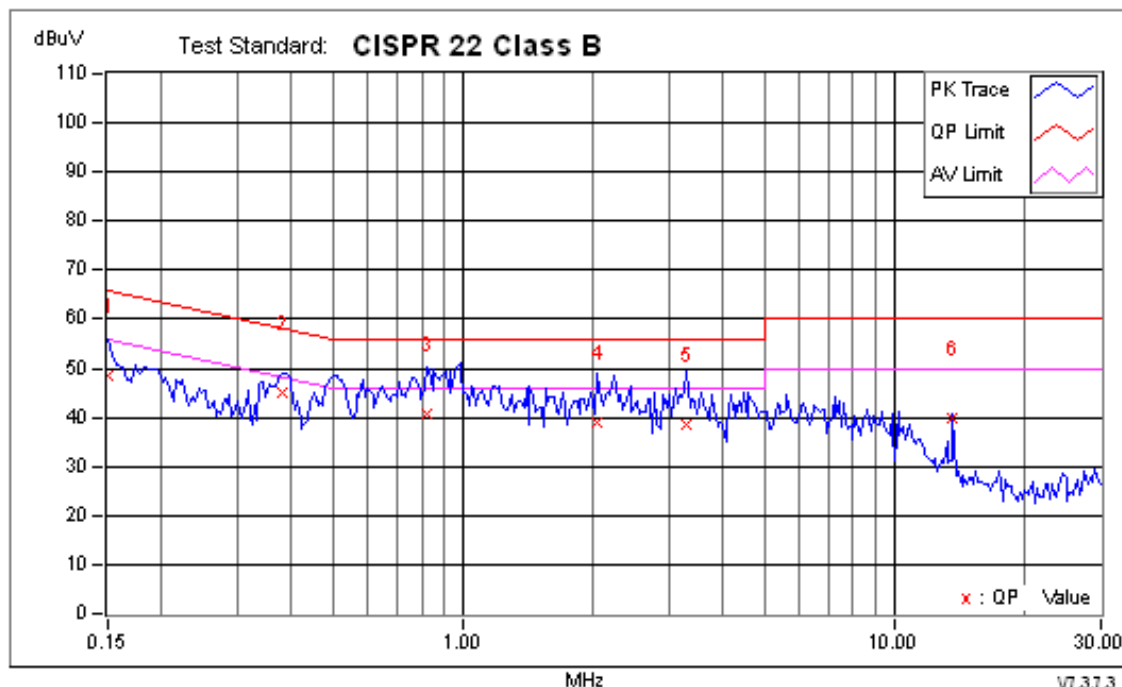


	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	Notes
1	0.15000	0.18	52.25	36.53	52.43	36.71	66.00	56.00	-13.57	-19.29	
2	0.21250	0.17	44.44	29.99	44.61	30.16	63.11	53.11	-18.49	-22.94	
3	0.36484	0.20	41.90	32.83	42.10	33.03	58.62	48.62	-16.51	-15.58	
4	0.95859	0.26	41.38	33.18	41.64	33.44	56.00	46.00	-14.36	-12.56	
5	3.23047	0.34	39.00	31.72	39.34	32.06	56.00	46.00	-16.66	-13.94	
+6	13.56250	0.53	38.94	37.62	39.47	38.15	60.00	50.00	-20.53	-11.85	

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
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	Frequency	Corr. Factor	Reading dBuV		Emission dBuV		Limit dBuV		Margins dB		Notes
No.	MHz	dB	QP	AV	QP	AV	QP	AV	QP	AV	Notes
1	0.15000	0.15	48.53	33.81	48.68	33.96	66.00	56.00	-17.32	-22.04	
+2	0.38047	0.20	44.80	37.02	45.00	37.22	58.27	48.27	-13.27	-11.05	
3	0.81797	0.24	40.61	33.35	40.85	33.59	56.00	46.00	-15.15	-12.41	
4	2.03125	0.29	38.56	32.00	38.85	32.29	56.00	46.00	-17.15	-13.71	
5	3.29297	0.35	38.01	31.43	38.36	31.78	56.00	46.00	-17.64	-14.22	
6	13.56250	0.59	39.04	37.70	39.63	38.29	60.00	50.00	-20.37	-11.71	

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

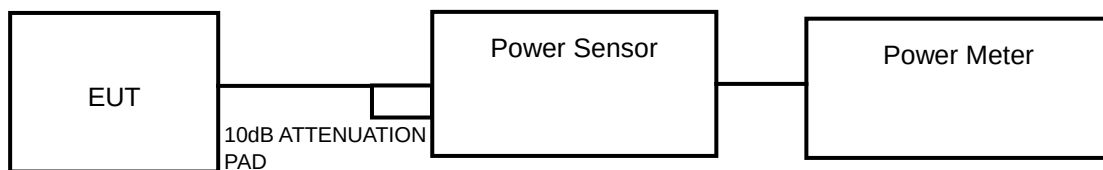
4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

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

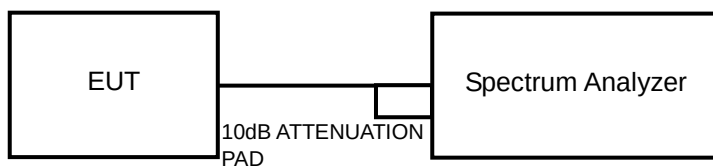
NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST SETUP

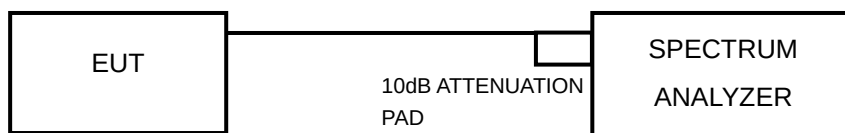
FOR POWER OUTPUT MEASUREMENT



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 not added to measured value.

<802.11 ac (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	37.154	15.70	17	PASS
44	5220	38.905	15.90	17	PASS
48	5240	29.174	14.65	17	PASS
52	5260	47.753	16.79	24	PASS
60	5300	48.865	16.89	24	PASS
64	5320	49.204	16.92	24	PASS
100	5500	46.774	16.70	24	PASS
116	5580	48.529	16.86	24	PASS
140	5700	50.816	17.06	24	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	37.931	15.79	17	PASS
44	5220	40.179	16.04	17	PASS
48	5240	41.783	16.21	17	PASS
52	5260	47.315	16.75	24	PASS
60	5300	48.978	16.90	24	PASS
64	5320	50.234	17.01	24	PASS
100	5500	46.666	16.69	24	PASS
116	5580	49.091	16.91	24	PASS
140	5700	51.523	17.12	24	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	23.442	13.70	17	PASS
46	5230	24.155	13.83	17	PASS
54	5270	24.889	13.96	24	PASS
62	5310	25.003	13.98	24	PASS
102	5510	23.823	13.77	24	PASS
110	5550	25.704	14.10	24	PASS
134	5670	26.242	14.19	24	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	18.836	12.75	17	PASS
58	5290	21.184	13.26	24	PASS
106	5530	22.961	13.61	24	PASS

26dB BANDWIDTH: 802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	21.05	PASS
44	5220	21.01	PASS
48	5240	20.94	PASS
52	5260	20.93	PASS
60	5300	20.93	PASS
64	5320	21.02	PASS
100	5500	20.87	PASS
116	5580	21.03	PASS
140	5700	22.63	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	21.15	PASS
44	5220	21.42	PASS
48	5240	21.40	PASS
52	5260	21.45	PASS
60	5300	21.71	PASS
64	5320	21.28	PASS
100	5500	22.90	PASS
116	5580	23.62	PASS
140	5700	28.73	PASS

802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	41.27	PASS
46	5230	41.13	PASS
54	5270	41.52	PASS
62	5310	41.50	PASS
102	5510	41.30	PASS
110	5550	41.73	PASS
134	5670	41.30	PASS

802.11ac (80MHz)

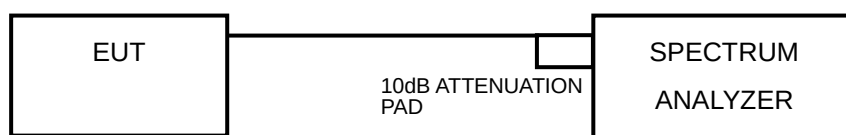
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	83.40	PASS
46	5230	83.40	PASS
106	5530	83.40	PASS

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)>

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)

<802.11ac (80MHz)>

Using method SA-1

- 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.

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	3.61	0.22	3.83	4	PASS
44	5220	3.71	0.22	3.93	4	PASS
48	5240	2.64	0.22	2.86	4	PASS
52	5260	4.75	0.22	4.97	11	PASS
60	5300	5.24	0.22	5.46	11	PASS
64	5320	5.70	0.22	5.92	11	PASS
100	5500	5.04	0.22	5.26	11	PASS
116	5580	5.35	0.22	5.57	11	PASS
140	5700	5.42	0.22	5.64	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	3.25	0.26	3.51	4	PASS
44	5220	3.56	0.26	3.82	4	PASS
48	5240	3.67	0.26	3.93	4	PASS
52	5260	4.65	0.26	4.91	11	PASS
60	5300	4.89	0.26	5.15	11	PASS
64	5320	4.81	0.26	5.07	11	PASS
100	5500	4.94	0.26	5.20	11	PASS
116	5580	5.00	0.26	5.26	11	PASS
140	5700	4.95	0.26	5.21	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	-1.73	0.57	-1.16	4	PASS
46	5230	-1.86	0.57	-1.29	4	PASS
54	5270	-1.42	0.57	-0.85	11	PASS
62	5310	-1.08	0.57	-0.51	11	PASS
102	5510	-1.18	0.57	-0.61	11	PASS
110	5550	-1.04	0.57	-0.47	11	PASS
134	5670	-0.89	0.57	-0.32	11	PASS

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

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-3.75	4	PASS
46	5230	-3.28	11	PASS
106	5530	-3.05	11	PASS

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.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITIONS

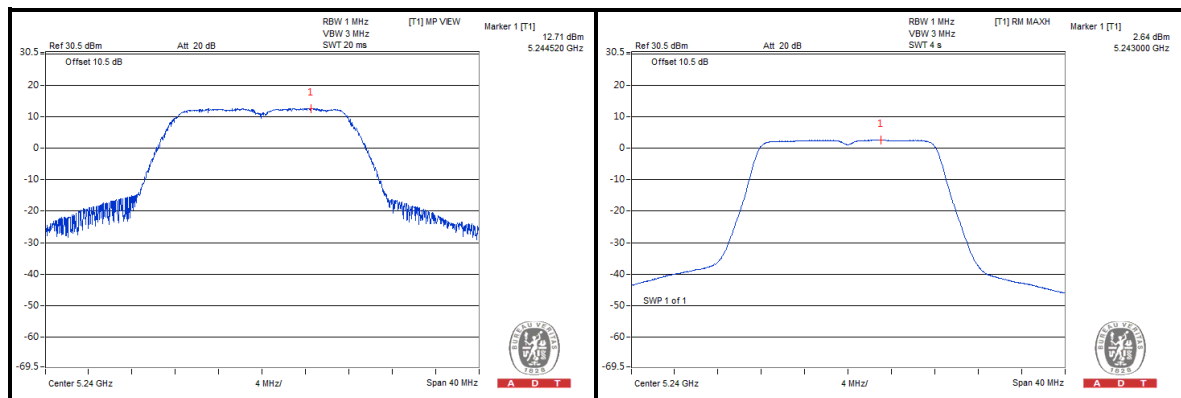
Same as 4.2.6

4.5.7 TEST RESULTS

802.11a

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD WITHOUT DUTY FACTOR (dBm)	PPSD WITH DUTY FACTOR (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
36	5180	13.41	3.61	3.83	9.58	13	PASS
44	5220	13.74	3.71	3.93	9.81	13	PASS
48	5240	12.71	2.64	2.86	9.85	13	PASS
52	5260	13.65	4.75	4.97	8.68	13	PASS
60	5300	14.06	5.24	5.46	8.60	13	PASS
64	5320	14.05	5.70	5.92	8.13	13	PASS
100	5500	13.89	5.04	5.26	8.63	13	PASS
116	5580	14.18	5.35	5.57	8.61	13	PASS
140	5700	14.24	5.42	5.64	8.60	13	PASS

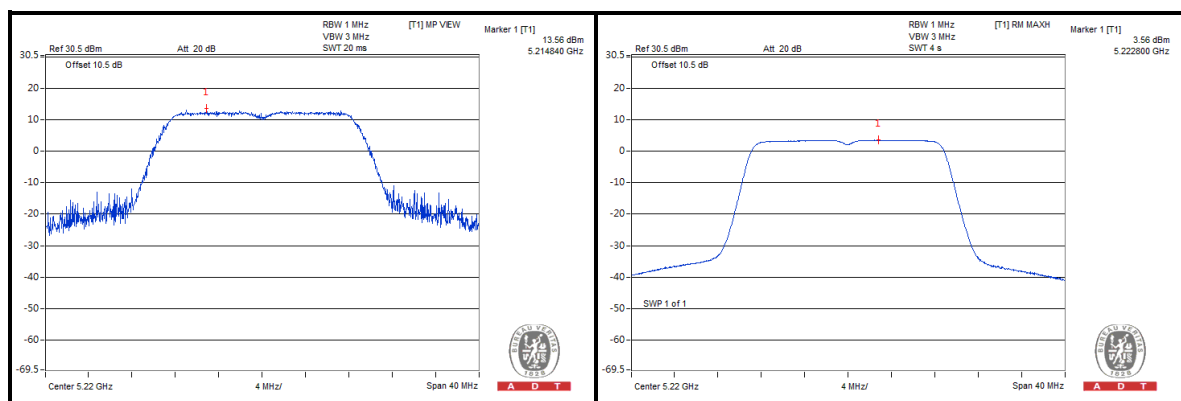
NOTE: Refer to section 3.3 for duty cycle spectrum plot.



802.11n (20MHz)

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD WITHOUT DUTY FACTOR (dBm)	PPSD WITH DUTY FACTOR (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
36	5180	12.74	3.25	3.51	9.23	13	PASS
44	5220	13.56	3.56	3.82	9.74	13	PASS
48	5240	13.25	3.67	3.93	9.32	13	PASS
52	5260	13.81	4.65	4.91	8.90	13	PASS
60	5300	14.34	4.89	5.15	9.19	13	PASS
64	5320	14.14	4.81	5.07	9.07	13	PASS
100	5500	14.48	4.94	5.20	9.28	13	PASS
116	5580	14.45	5.00	5.26	9.19	13	PASS
140	5700	14.59	4.95	5.21	9.38	13	PASS

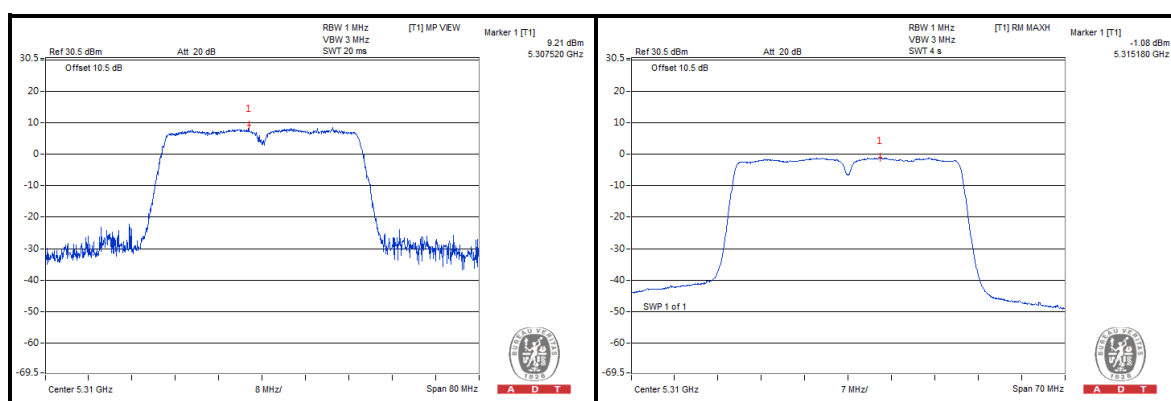
NOTE: Refer to section 3.3 for duty cycle spectrum plot.



802.11n (40MHz)

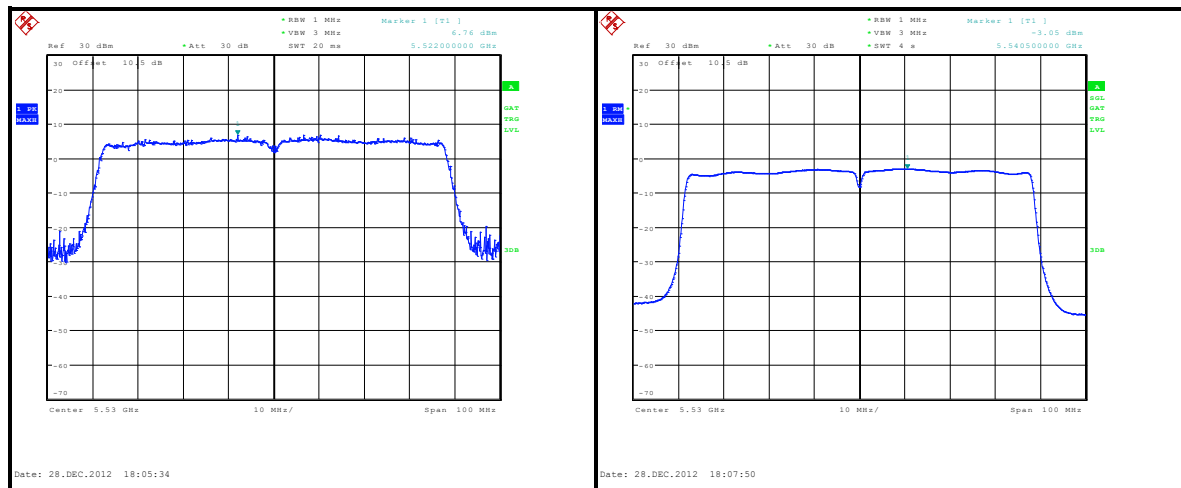
CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD WITHOUT DUTY FACTOR (dBm)	PPSD WITH DUTY FACTOR (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
38	5190	8.24	-1.73	-1.16	9.40	13	PASS
46	5230	8.05	-1.86	-1.29	9.34	13	PASS
54	5270	8.65	-1.42	-0.85	9.50	13	PASS
62	5310	9.21	-1.08	-0.51	9.72	13	PASS
102	5510	8.17	-1.18	-0.61	8.78	13	PASS
110	5550	8.98	-1.04	-0.47	9.45	13	PASS
134	5670	8.96	-0.89	-0.32	9.28	13	PASS

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



802.11ac (80MHz)

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS /FAIL
42	5210	5.97	-3.75	9.72	13	PASS
58	5290	6.50	-3.28	9.78	13	PASS
106	5530	6.76	-3.05	9.81	13	PASS

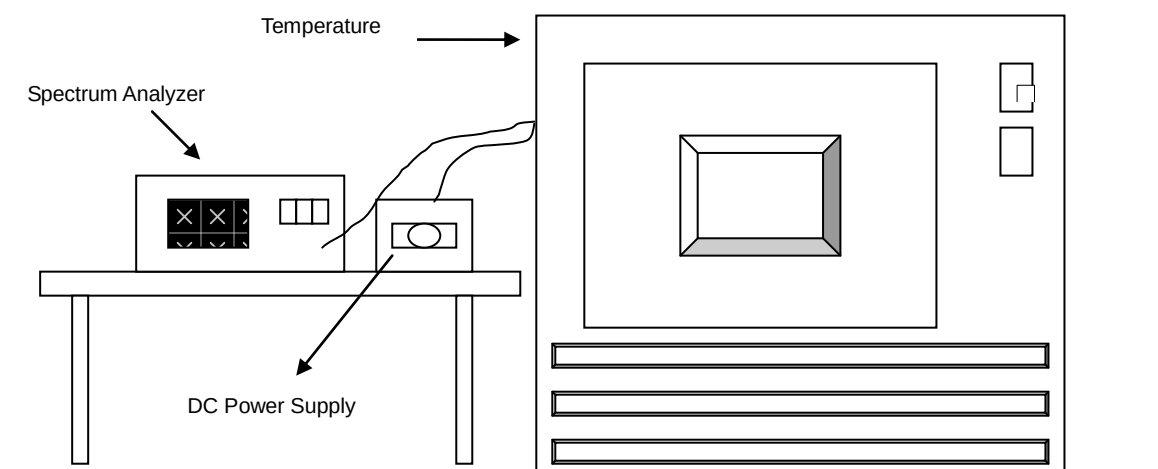


4.6 FREQUENCY STABILITY

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)
55	3.8	5320.013036	2.450	5320.013134	2.469	5320.013127	2.467	5320.012938	2.432
50	3.8	5320.013726	2.580	5320.013614	2.559	5320.013557	2.548	5320.013370	2.513
40	3.8	5320.015116	2.841	5320.014784	2.779	5320.015265	2.869	5320.015161	2.850
30	3.8	5320.016436	3.089	5320.016272	3.059	5320.016005	3.008	5320.015940	2.996
20	3.8	5320.015994	3.006	5320.016097	3.026	5320.016069	3.020	5320.016312	3.066
10	3.8	5320.016242	3.053	5320.015985	3.005	5320.015807	2.971	5320.016307	3.065
0	3.8	5320.014375	2.702	5320.014231	2.675	5320.014538	2.733	5320.014789	2.780
-10	3.8	5320.012772	2.401	5320.013223	2.486	5320.013310	2.502	5320.013168	2.475

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	3.6	5320.015534	2.920	5320.015492	2.912	5320.015041	2.827	5320.015145	2.847
	3.8	5320.015994	3.006	5320.016097	3.026	5320.016069	3.020	5320.016312	3.066
	4.35	5320.017691	3.325	5320.017410	3.273	5320.017942	3.373	5320.017639	3.316

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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Web Site: www.bureauveritas-adt.com

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---