FCC TEST REPORT (15.407)

REPORT NO.:	RF120718C09-2
MODEL NO.:	6235ANHMW
FCC ID:	QYL6235
RECEIVED:	Jul. 18, 2012
TESTED:	Aug. 10 ~ Sep. 10, 2012
ISSUED:	Oct. 26, 2012

APPLICANT:	Getac Technology Corporation
ADDRESS:	5F., Building A, No. 209, Sec.1, Nangang Rd.,Nangang Dist., Taipei City 11568, 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., New Taipei City, Taiwan (R.O.C.)
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF120718C09-2	Original release	Oct. 26, 2012

1. CERTIFICATION

PRODUCT:	WLAN/BT Module
MODEL NO.:	6235ANHMW
BRAND:	Intel
APPLICANT:	Getac Technology Corporation
TESTED:	Aug. 10 ~ Sep. 10, 2012
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 15, Subpart E (Section 15.407)**
	ANSI C63.10-2009

The above equipment (model: 6235ANHMW) 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 / Senior Specialist , **DATE :** Oct. 26, 2012

APPROVED BY : Ken Liu / Manager , **DATE :** Oct. 26, 2012

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 -9.49dB at 3.55078MHz.
15.407(b/1/2/3)(b)(6)	Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5470.00MHz and 5725.00MHz and 5150MHz.
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	WLAN/BT Module
MODEL NO.	6235ANHMW
POWER SUPPLY	3.3Vdc
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps
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) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 5 for 802.11n (40MHz)
OUTPUT POWER	42.5mW for 5180 ~ 5240MHz 40.9mW for 5260 ~ 5320MHz 40.5mW for 5500 ~ 5700MHz
ANTENNA TYPE	PIFA Antenna with 3.5dBi gain (5180~5240MHz) PIFA Antenna with 3.8dBi gain (5260~5320MHz) PIFA Antenna with 3.8dBi gain (5500~5700MHz)
ANTENNA CONNECTOR	NA
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Adapter

NOTE:

1. The transmitter module is authorized for use in specific End-product (Notebook PC, Brand: Getac, Model: B320).
2. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (20MHz)	1TX / 2TX
802.11n (40MHz)	1TX / 2TX

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

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

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

FOR 5500 ~ 5700MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510MHz	126	5630MHz
110	5550MHz	134	5670MHz
118	5590MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX Function
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	1TX
802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	7.2	1TX
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	15.0	1TX
802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	14.4	2TX
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	30.0	2TX
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	1TX
802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2	1TX
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0	1TX
802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	14.4	2TX
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	30.0	2TX
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	1TX
802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	7.2	1TX
802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	15.0	1TX
802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	14.4	2TX
802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	30.0	2TX

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)	TX Function
802.11n (20MHz)	5180-5320	38 to 64	64	OFDM	BPSK	14.4	2TX
802.11n (40MHz)	5500-5700	100 to 140	110	OFDM	BPSK	30.0	2TX

POWER LINE CONDUCTED EMISSION TEST:

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

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

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX Function
802.11n (20MHz)	5180-5320	38 to 64	64	OFDM	BPSK	14.4	2TX
802.11n (40MHz)	5500-5700	100 to 140	110	OFDM	BPSK	30.0	2TX

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)	TX Function
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	1TX
802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	7.2	1TX
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	15.0	1TX
802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	BPSK	14.4	2TX
802.11n (40MHz)		38 to 46	38, 46	OFDM	BPSK	30.0	2TX
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	1TX
802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2	1TX
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0	1TX
802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	14.4	2TX
802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	30.0	2TX
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	1TX
802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	7.2	1TX
802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	15.0	1TX
802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	BPSK	14.4	2TX
802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	BPSK	30.0	2TX

TEST CONDITION:

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

3.3 DUTY CYCLE OF TEST SIGNAL

802.11a:

Duty cycle = 2.100 / 2.120 = 0.991

Duty cycle of test signal is 99.1 % > 98 %, duty factor is not required.

802.11n (20MHz): 1TX

Duty cycle = 1.96 / 1.97 = 0.995

Duty cycle of test signal is 99.5 % > 98 %, duty factor is not required.

802.11n (40MHz): 1TX

Duty cycle = 966 / 984 = 0.982

Duty cycle of test signal is 98.2 % > 98 %, duty factor is not required.

802.11n (20MHz): 2TX

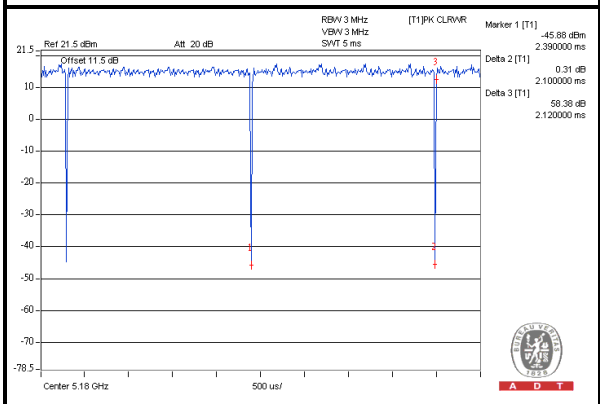
Duty cycle = 1.008 / 1.026 = 0.982

Duty cycle of test signal is 98.2 % > 98 %, duty factor is not required.

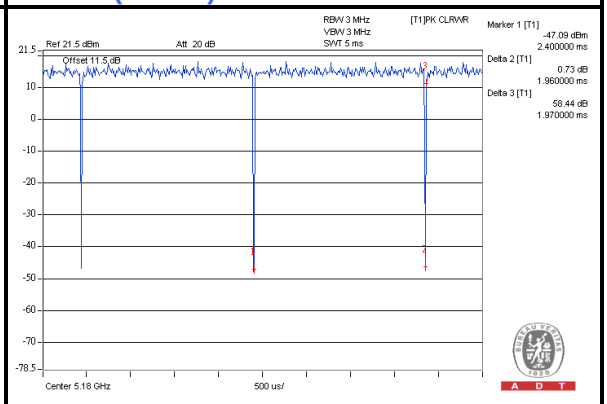
802.11n (40MHz): 2TX

Duty cycle = 5.07 / 5.25 = 0.966, Duty factor = 10 * log (1/0.966) = 0.15

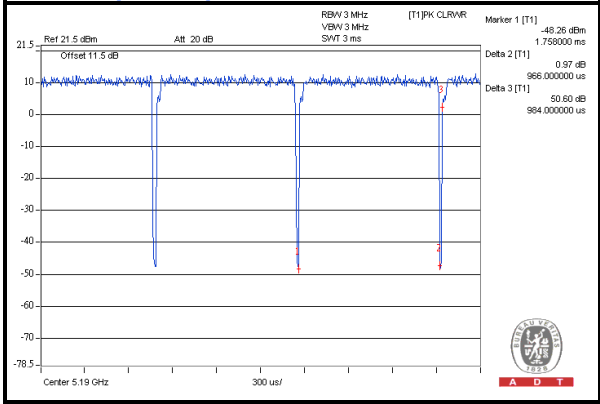
802.11a

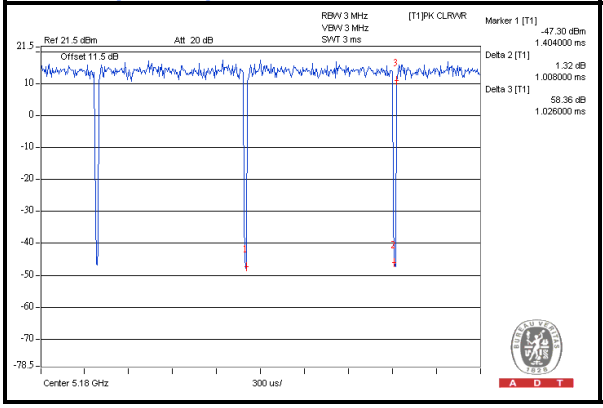
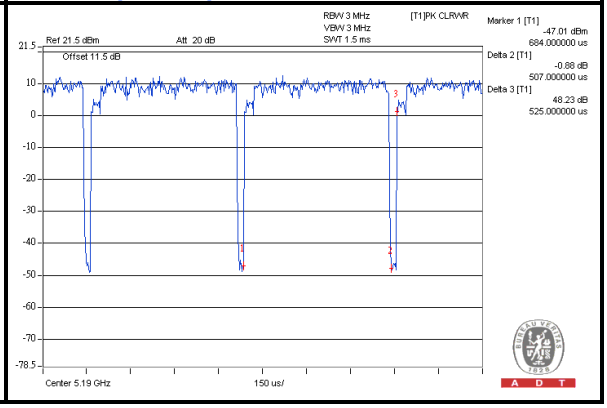


802.11n (20MHz): 1TX



802.11n (40MHz): 1TX



802.11n (20MHz): 2TX	802.11n (40MHz): 2TX
	

3.4 DESCRIPTION OF SUPPORT UNITS

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

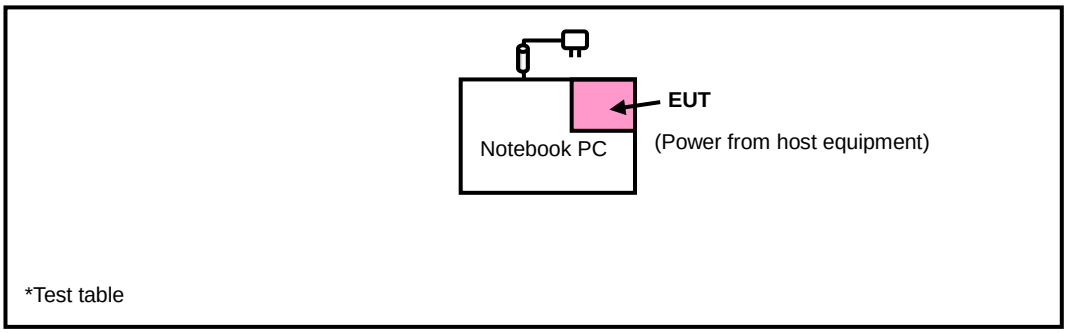
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook PC	Getac	B320	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 was provided by client.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



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.

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

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:

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

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 19, 2012	Apr. 18, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 30, 2012	Jan. 29, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Apr. 03, 2012	Apr. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-404	Dec. 21, 2011	Dec. 20, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 11, 2012	Jul. 10, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8449B	3008A01911	Oct. 29, 2011	Oct. 28, 2012
Preamplifier Agilent	8447D	2944A10638	Oct. 29, 2011	Oct. 28, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	295013/4 283403/4	Aug. 28, 2012	Aug. 27, 2013
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 11, 2012	Aug. 10, 2013
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn Table Controller EMCO	2090	NA	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 29, 2011	Oct. 28, 2012

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

2. The 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 IC7450F-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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

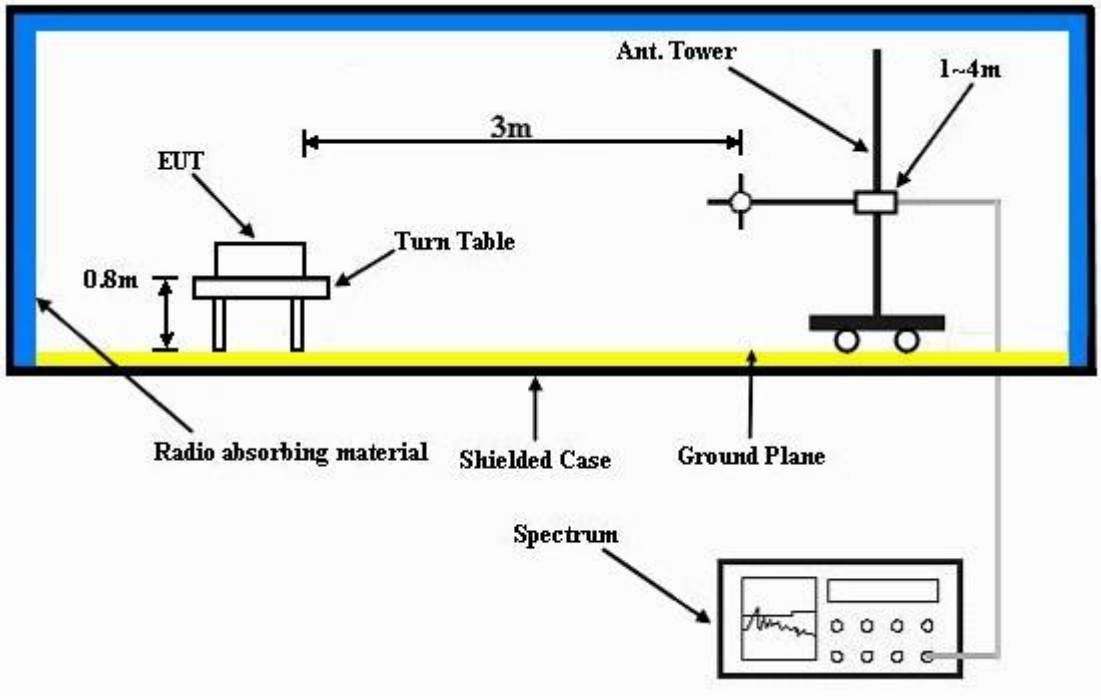
NOTE:

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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

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: 1TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	**FREQUENCY RANGE**	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	**TESTED BY**	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5150.00	60.7 PK	74.0	-13.3	1.63 H	289	22.50	38.20
2	5150.00	45.9 AV	54.0	-8.1	1.63 H	289	7.70	38.20
3	*5180.00	101.4 PK			1.63 H	289	63.20	38.20
4	*5180.00	91.2 AV			1.63 H	289	53.00	38.20
5	#10360.00	53.7 PK	68.3	-14.6	1.34 H	224	5.70	48.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5150.00	64.1 PK	74.0	-9.9	1.03 V	39	25.90	38.20
2	5150.00	49.1 AV	54.0	-4.9	1.03 V	39	10.90	38.20
3	*5180.00	107.9 PK			1.03 V	43	69.70	38.20
4	*5180.00	97.2 AV			1.03 V	43	59.00	38.20
5	#10360.00	55.5 PK	68.3	-12.8	1.07 V	152	7.50	48.00

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	101.8 PK			1.57 H	304	63.60	38.20
2	*5200.00	91.6 AV			1.57 H	304	53.40	38.20
3	#10400.00	53.2 PK	68.3	-15.1	1.38 H	251	5.10	48.10
4	15600.00	53.6 PK	74.0	-20.4	1.02 H	42	4.50	49.10
5	15600.00	43.7 AV	54.0	-10.3	1.02 H	42	-5.40	49.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.2 PK			1.04 V	28	70.00	38.20
2	*5200.00	97.5 AV			1.04 V	28	59.30	38.20
3	#10400.00	55.8 PK	68.3	-12.5	1.12 V	164	7.70	48.10
4	15600.00	55.2 PK	74.0	-18.8	1.29 V	122	6.10	49.10
5	15600.00	45.6 AV	54.0	-8.4	1.29 V	122	-3.50	49.10

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	41.7 PK	74.0	-32.3	1.34 H	299	14.40	27.30
2	1125.00	30.8 AV	54.0	-23.2	1.34 H	299	3.50	27.30
3	*5240.00	102.6 PK			1.42 H	296	64.30	38.30
4	*5240.00	92.4 AV			1.42 H	296	54.10	38.30
5	#10480.00	52.8 PK	68.3	-15.5	1.34 H	245	4.60	48.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	45.0 PK	74.0	-29.0	1.18 V	257	17.70	27.30
2	1125.00	33.1 AV	54.0	-20.9	1.18 V	257	5.80	27.30
3	*5240.00	109.0 PK			1.01 V	40	70.70	38.30
4	*5240.00	98.5 AV			1.01 V	40	60.20	38.30
5	#10480.00	56.1 PK	68.3	-12.2	1.03 V	147	7.90	48.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	41.8 PK	74.0	-32.2	1.01 H	169	14.50	27.30
2	1125.00	30.9 AV	54.0	-23.1	1.01 H	169	3.60	27.30
3	*5260.00	103.1 PK			1.45 H	307	64.80	38.30
4	*5260.00	93.1 AV			1.45 H	307	54.80	38.30
5	#10520.00	53.1 PK	68.3	-15.2	1.29 H	257	4.80	48.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	45.7 PK	74.0	-28.3	1.36 V	278	18.40	27.30
2	1125.00	33.6 AV	54.0	-20.4	1.36 V	278	6.30	27.30
3	*5260.00	110.1 PK			1.00 V	45	71.80	38.30
4	*5260.00	99.4 AV			1.00 V	45	61.10	38.30
5	#10520.00	56.7 PK	68.3	-11.6	1.05 V	151	8.40	48.30

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	42.1 PK	74.0	-31.9	1.08 H	158	14.80	27.30
2	1125.00	31.2 AV	54.0	-22.8	1.08 H	158	3.90	27.30
3	*5300.00	103.6 PK			1.08 H	153	65.20	38.40
4	*5300.00	93.5 AV			1.08 H	153	55.10	38.40
5	10600.00	52.8 PK	74.0	-21.2	1.34 H	269	4.50	48.30
6	10600.00	42.7 AV	54.0	-11.3	1.34 H	269	-5.60	48.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	45.9 PK	74.0	-28.1	1.21 V	232	18.60	27.30
2	1125.00	34.1 AV	54.0	-19.9	1.21 V	232	6.80	27.30
3	*5300.00	110.6 PK			1.07 V	31	72.20	38.40
4	*5300.00	99.7 AV			1.07 V	31	61.30	38.40
5	10600.00	56.4 PK	74.0	-17.6	1.08 V	177	8.10	48.30
6	10600.00	45.8 AV	54.0	-8.2	1.08 V	177	-2.50	48.30

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	102.8 PK			1.04 H	148	64.40	38.40
2	*5320.00	92.6 AV			1.04 H	148	54.20	38.40
3	5350.00	59.7 PK	74.0	-14.3	1.04 H	148	21.20	38.50
4	5350.00	40.0 AV	54.0	-14.0	1.04 H	148	1.50	38.50
5	10640.00	56.2 PK	74.0	-17.8	1.12 H	122	7.70	48.50
6	10640.00	45.3 AV	54.0	-8.7	1.12 H	122	-3.20	48.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.3 PK			1.08 V	38	70.90	38.40
2	*5320.00	98.9 AV			1.08 V	38	60.50	38.40
3	5350.00	68.6 PK	74.0	-5.4	1.20 V	37	30.10	38.50
4	5350.00	49.3 AV	54.0	-4.7	1.20 V	37	10.80	38.50
5	10640.00	56.8 PK	74.0	-17.2	1.06 V	147	8.30	48.50
6	10640.00	45.8 AV	54.0	-8.2	1.06 V	147	-2.70	48.50

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.5 PK	74.0	-14.5	1.59 H	303	20.80	38.70
2	5460.00	44.6 AV	54.0	-9.4	1.59 H	303	5.90	38.70
3	#5470.00	61.9 PK	68.3	-6.4	1.59 H	303	23.20	38.70
4	*5500.00	103.5 PK			1.37 H	302	64.80	38.70
5	*5500.00	93.0 AV			1.37 H	302	54.30	38.70
6	11000.00	56.0 PK	74.0	-18.0	1.08 H	217	6.80	49.20
7	11000.00	46.2 AV	54.0	-7.8	1.08 H	217	-3.00	49.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.9 PK	74.0	-10.1	1.08 V	45	25.20	38.70
2	5460.00	47.5 AV	54.0	-6.5	1.08 V	45	8.80	38.70
3	**#5470.00**	**67.3 PK**	**68.3**	**-1.0**	**1.08 V**	**45**	**28.60**	**38.70**
4	*5500.00	110.1 PK			1.06 V	40	71.40	38.70
5	*5500.00	99.5 AV			1.06 V	40	60.80	38.70
6	11000.00	57.7 PK	74.0	-16.3	1.07 V	27	8.50	49.20
7	11000.00	46.6 AV	54.0	-7.4	1.07 V	27	-2.60	49.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	42.1 PK	74.0	-31.9	1.02 H	183	14.80	27.30
2	1125.00	31.2 AV	54.0	-22.8	1.02 H	183	3.90	27.30
3	*5580.00	102.8 PK			1.54 H	296	63.90	38.90
4	*5580.00	92.4 AV			1.54 H	296	53.50	38.90
5	11160.00	55.2 PK	74.0	-18.8	1.01 H	224	5.90	49.30
6	11160.00	45.7 AV	54.0	-8.3	1.01 H	224	-3.60	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	45.9 PK	74.0	-28.1	1.39 V	258	18.60	27.30
2	1125.00	33.9 AV	54.0	-20.1	1.39 V	258	6.60	27.30
3	*5580.00	109.5 PK			1.02 V	32	70.60	38.90
4	*5580.00	99.2 AV			1.02 V	32	60.30	38.90
5	11160.00	57.2 PK	74.0	-16.8	1.08 V	45	7.90	49.30
6	11160.00	46.1 AV	54.0	-7.9	1.08 V	45	-3.20	49.30

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	**FREQUENCY RANGE**	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	**TESTED BY**	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5700.00	100.2 PK			1.56 H	298	61.00	39.20
2	*5700.00	90.1 AV			1.56 H	298	50.90	39.20
3	#5725.00	57.5 PK	68.3	-10.8	1.56 H	298	18.30	39.20
4	11400.00	55.8 PK	74.0	-18.2	1.07 H	45	6.50	49.30
5	11400.00	44.7 AV	54.0	-9.3	1.07 H	45	-4.60	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5700.00	106.1 PK			1.09 V	35	66.90	39.20
2	*5700.00	96.0 AV			1.09 V	35	56.80	39.20
3	**#5725.00**	**67.3 PK**	**68.3**	**-1.0**	**1.09 V**	**45**	**28.10**	**39.20**
4	11400.00	56.2 PK	74.0	-17.8	1.08 V	38	6.90	49.30
5	11400.00	45.2 AV	54.0	-8.8	1.08 V	38	-4.10	49.30

REMARKS:

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

802.11n (20MHz): 1TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	1.12 H	350	21.80	38.20
2	5150.00	46.2 AV	54.0	-7.8	1.12 H	350	8.00	38.20
3	*5180.00	101.0 PK			1.12 H	3	62.80	38.20
4	*5180.00	90.8 AV			1.12 H	3	52.60	38.20
5	#10360.00	57.1 PK	68.3	-11.2	1.08 H	351	9.10	48.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.2 PK	74.0	-7.8	1.22 V	77	28.00	38.20
2	5150.00	51.5 AV	54.0	-2.5	1.22 V	77	13.30	38.20
3	*5180.00	108.8 PK			1.12 V	77	70.60	38.20
4	*5180.00	97.7 AV			1.12 V	77	59.50	38.20
5	#10360.00	56.2 PK	68.3	-12.1	1.38 V	247	8.20	48.00

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	101.2 PK			1.14 H	358	63.00	38.20
2	*5200.00	90.5 AV			1.14 H	358	52.30	38.20
3	#10400.00	56.7 PK	68.3	-11.6	1.04 H	322	8.60	48.10
4	15600.00	57.1 PK	74.0	-16.9	1.28 H	51	8.00	49.10
5	15600.00	44.0 AV	54.0	-10.0	1.28 H	51	-5.10	49.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.1 PK			1.09 V	73	69.90	38.20
2	*5200.00	97.3 AV			1.09 V	73	59.10	38.20
3	#10400.00	57.1 PK	68.3	-11.2	1.34 V	296	9.00	48.10
4	15600.00	57.7 PK	74.0	-16.3	1.12 V	247	8.60	49.10
5	15600.00	44.8 AV	54.0	-9.2	1.12 V	247	-4.30	49.10

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	101.7 PK			1.17 H	345	63.40	38.30
2	*5240.00	90.8 AV			1.17 H	345	52.50	38.30
3	#10480.00	56.2 PK	68.3	-12.1	1.02 H	318	8.00	48.20
4	15720.00	56.8 PK	74.0	-17.2	1.35 H	71	7.90	48.90
5	15720.00	43.6 AV	54.0	-10.4	1.35 H	71	-5.30	48.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.3 PK			1.16 V	18	70.00	38.30
2	*5240.00	97.8 AV			1.16 V	18	59.50	38.30
3	#10480.00	56.3 PK	68.3	-12.0	1.22 V	251	8.10	48.20
4	15720.00	57.9 PK	74.0	-16.1	1.09 V	203	9.00	48.90
5	15720.00	45.2 AV	54.0	-8.8	1.09 V	203	-3.70	48.90

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	103.1 PK			1.08 H	335	64.80	38.30
2	*5260.00	93.0 AV			1.08 H	335	54.70	38.30
3	#10520.00	56.2 PK	68.3	-12.1	1.00 H	304	7.90	48.30
4	15780.00	56.8 PK	74.0	-17.2	1.37 H	45	8.00	48.80
5	15780.00	43.9 AV	54.0	-10.1	1.37 H	45	-4.90	48.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	110.6 PK			1.00 V	47	72.30	38.30
2	*5260.00	100.3 AV			1.00 V	47	62.00	38.30
3	#10520.00	56.3 PK	68.3	-12.0	1.47 V	177	8.00	48.30
4	15780.00	55.7 PK	74.0	-18.3	1.03 V	102	6.90	48.80
5	15780.00	44.2 AV	54.0	-9.8	1.03 V	102	-4.60	48.80

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	102.8 PK			1.14 H	307	64.40	38.40
2	*5300.00	92.6 AV			1.14 H	307	54.20	38.40
3	10600.00	56.1 PK	74.0	-17.9	1.04 H	299	7.80	48.30
4	10600.00	45.1 AV	54.0	-8.9	1.04 H	299	-3.20	48.30
5	15900.00	56.2 PK	74.0	-17.8	1.31 H	27	7.80	48.40
6	15900.00	43.2 AV	54.0	-10.8	1.31 H	27	-5.20	48.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	110.1 PK			1.00 V	45	71.70	38.40
2	*5300.00	99.8 AV			1.00 V	45	61.40	38.40
3	10600.00	56.8 PK	74.0	-17.2	1.42 V	165	8.50	48.30
4	10600.00	45.8 AV	54.0	-8.2	1.42 V	165	-2.50	48.30
5	15900.00	55.6 PK	74.0	-18.4	1.07 V	107	7.20	48.40
6	15900.00	43.7 AV	54.0	-10.3	1.07 V	107	-4.70	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	102.5 PK			1.18 H	317	64.10	38.40
2	*5320.00	92.2 AV			1.18 H	317	53.80	38.40
3	5350.00	60.8 PK	74.0	-13.2	1.18 H	317	22.30	38.50
4	5350.00	40.2 AV	54.0	-13.8	1.18 H	317	1.70	38.50
5	10640.00	55.2 PK	74.0	-18.8	1.17 H	169	6.70	48.50
6	10640.00	45.3 AV	54.0	-8.7	1.17 H	169	-3.20	48.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	110.1 PK			1.00 V	52	71.70	38.40
2	*5320.00	99.2 AV			1.00 V	52	60.80	38.40
3	5350.00	68.1 PK	74.0	-5.9	1.00 V	41	29.60	38.50
4	5350.00	49.1 AV	54.0	-4.9	1.00 V	41	10.60	38.50
5	10640.00	55.8 PK	74.0	-18.2	1.22 V	157	7.30	48.50
6	10640.00	45.9 AV	54.0	-8.1	1.22 V	157	-2.60	48.50

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.2 PK	74.0	-15.8	1.14 H	342	19.50	38.70
2	5460.00	40.4 AV	54.0	-13.6	1.14 H	342	1.70	38.70
3	#5470.00	58.9 PK	68.3	-9.4	1.14 H	342	20.20	38.70
4	*5500.00	101.2 PK			1.14 H	342	62.50	38.70
5	*5500.00	91.0 AV			1.14 H	342	52.30	38.70
6	11000.00	55.8 PK	74.0	-18.2	1.00 H	58	6.60	49.20
7	11000.00	44.2 AV	54.0	-9.8	1.00 H	58	-5.00	49.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.0 PK	74.0	-9.0	1.12 V	73	26.30	38.70
2	5460.00	48.6 AV	54.0	-5.4	1.12 V	73	9.90	38.70
3	#5470.00	66.7 PK	68.3	-1.6	1.12 V	73	28.00	38.70
4	*5500.00	108.5 PK			1.06 V	43	69.80	38.70
5	*5500.00	98.1 AV			1.06 V	43	59.40	38.70
6	11000.00	57.2 PK	74.0	-16.8	1.38 V	159	8.00	49.20
7	11000.00	46.0 AV	54.0	-8.0	1.38 V	159	-3.20	49.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	104.5 PK			1.13 H	339	65.60	38.90
2	*5580.00	94.1 AV			1.13 H	339	55.20	38.90
3	11160.00	57.0 PK	74.0	-17.0	1.00 H	54	7.70	49.30
4	11160.00	44.4 AV	54.0	-9.6	1.00 H	54	-4.90	49.30
5	#16740.00	60.3 PK	68.3	-8.0	1.04 H	310	8.80	51.50
6	#16740.00	48.0 AV	54.0	-6.0	1.04 H	310	-3.50	51.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	110.5 PK			1.02 V	45	71.60	38.90
2	*5580.00	99.8 AV			1.02 V	45	60.90	38.90
3	11160.00	57.6 PK	74.0	-16.4	1.33 V	155	8.30	49.30
4	11160.00	45.0 AV	54.0	-9.0	1.33 V	155	-4.30	49.30
5	#16740.00	60.8 PK	68.3	-7.5	1.11 V	226	9.30	51.50
6	#16740.00	48.4 AV	54.0	-5.6	1.11 V	226	-3.10	51.50

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	102.2 PK			1.05 H	303	63.00	39.20
2	*5700.00	91.8 AV			1.05 H	303	52.60	39.20
3	#5725.00	60.6 PK	68.3	-7.7	1.05 H	303	21.40	39.20
4	11400.00	56.7 PK	74.0	-17.3	1.00 H	58	7.40	49.30
5	11400.00	44.1 AV	54.0	-9.9	1.00 H	58	-5.20	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.2 PK			1.00 V	36	68.00	39.20
2	*5700.00	96.7 AV			1.00 V	36	57.50	39.20
3	#5725.00	66.5 PK	68.3	-1.8	1.00 V	36	27.30	39.20
4	11400.00	57.3 PK	74.0	-16.7	1.32 V	158	8.00	49.30
5	11400.00	44.6 AV	54.0	-9.4	1.32 V	158	-4.70	49.30

REMARKS:

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

802.11n (40MHz): 1TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.04 H	28	17.60	38.20
2	5150.00	40.7 AV	54.0	-13.3	1.04 H	28	2.50	38.20
3	*5190.00	90.7 PK			1.04 H	28	52.50	38.20
4	*5190.00	80.6 AV			1.04 H	28	42.40	38.20
5	#10380.00	55.7 PK	68.3	-12.6	1.12 H	341	7.70	48.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.2 PK	74.0	-11.8	1.15 V	49	24.00	38.20
2	5150.00	47.4 AV	54.0	-6.6	1.15 V	49	9.20	38.20
3	*5190.00	98.7 PK			1.14 V	48	60.50	38.20
4	*5190.00	88.1 AV			1.14 V	48	49.90	38.20
5	#10380.00	56.0 PK	68.3	-12.3	1.34 V	252	8.00	48.00

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	96.8 PK			1.02 H	34	58.50	38.30
2	*5230.00	86.9 AV			1.02 H	34	48.60	38.30
3	#10460.00	56.2 PK	68.3	-12.1	1.08 H	351	8.00	48.20
4	15690.00	56.5 PK	74.0	-17.5	1.25 H	57	7.50	49.00
5	15690.00	43.4 AV	54.0	-10.6	1.25 H	57	-5.60	49.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	105.0 PK			1.14 V	27	66.70	38.30
2	*5230.00	94.1 AV			1.14 V	27	55.80	38.30
3	#10460.00	56.4 PK	68.3	-11.9	1.36 V	304	8.20	48.20
4	15690.00	57.2 PK	74.0	-16.8	1.04 V	258	8.20	49.00
5	15690.00	44.3 AV	54.0	-9.7	1.04 V	258	-4.70	49.00

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.4 PK	74.0	-20.6	1.15 H	302	15.20	38.20
2	5150.00	42.0 AV	54.0	-12.0	1.15 H	302	3.80	38.20
3	*5270.00	101.4 PK			1.15 H	302	63.00	38.40
4	*5270.00	90.9 AV			1.15 H	302	52.50	38.40
5	#10540.00	57.5 PK	68.3	-10.8	1.05 H	356	9.20	48.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	53.7 PK	74.0	-20.3	1.00 V	45	15.50	38.20
2	5150.00	42.4 AV	54.0	-11.6	1.00 V	45	4.20	38.20
3	*5270.00	108.2 PK			1.00 V	45	69.80	38.40
4	*5270.00	97.5 AV			1.00 V	45	59.10	38.40
5	#10540.00	57.8 PK	68.3	-10.5	1.32 V	310	9.50	48.30

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	96.3 PK			1.36 H	304	57.90	38.40
2	*5310.00	85.7 AV			1.36 H	304	47.30	38.40
3	5350.00	58.7 PK	74.0	-15.3	1.36 H	304	20.20	38.50
4	5350.00	46.5 AV	54.0	-7.5	1.36 H	304	8.00	38.50
5	10620.00	54.7 PK	74.0	-19.3	1.13 H	163	6.30	48.40
6	10620.00	44.8 AV	54.0	-9.2	1.13 H	163	-3.60	48.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.3 PK			1.00 V	48	64.90	38.40
2	*5310.00	92.6 AV			1.00 V	48	54.20	38.40
3	5350.00	65.8 PK	74.0	-8.2	1.00 V	48	27.30	38.50
4	5350.00	52.3 AV	54.0	-1.7	1.00 V	48	13.80	38.50
5	10620.00	55.3 PK	74.0	-18.7	1.26 V	161	6.90	48.40
6	10620.00	45.3 AV	54.0	-8.7	1.26 V	161	-3.10	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.2 PK	74.0	-18.8	1.31 H	307	16.50	38.70
2	5460.00	43.7 AV	54.0	-10.3	1.31 H	307	5.00	38.70
3	#5470.00	62.3 PK	68.3	-6.0	1.31 H	307	23.60	38.70
4	*5510.00	97.1 PK			1.31 H	307	58.30	38.80
5	*5510.00	86.8 AV			1.31 H	307	48.00	38.80
6	11020.00	54.3 PK	74.0	-19.7	1.15 H	169	5.10	49.20
7	11020.00	44.4 AV	54.0	-9.6	1.15 H	169	-4.80	49.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	1.11 V	77	21.10	38.70
2	5460.00	47.2 AV	54.0	-6.8	1.11 V	77	8.50	38.70
3	**#5470.00**	**67.3 PK**	**68.3**	**-1.0**	**1.11 V**	**77**	**28.60**	**38.70**
4	*5510.00	103.3 PK			1.11 V	77	64.50	38.80
5	*5510.00	92.5 AV			1.11 V	77	53.70	38.80
6	11020.00	54.9 PK	74.0	-19.1	1.23 V	158	5.70	49.20
7	11020.00	45.0 AV	54.0	-9.0	1.23 V	158	-4.20	49.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	100.6 PK			1.29 H	306	61.80	38.80
2	*5550.00	90.0 AV			1.29 H	306	51.20	38.80
3	11100.00	56.3 PK	74.0	-17.7	1.05 H	52	7.10	49.20
4	11100.00	44.0 AV	54.0	-10.0	1.05 H	52	-5.20	49.20
5	#16650.00	60.3 PK	68.3	-8.0	1.13 H	11	9.20	51.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	107.2 PK			1.03 V	47	68.40	38.80
2	*5550.00	96.6 AV			1.03 V	47	57.80	38.80
3	11100.00	56.5 PK	74.0	-17.5	1.16 V	124	7.30	49.20
4	11100.00	43.6 AV	54.0	-10.4	1.16 V	124	-5.60	49.20
5	#16650.00	61.0 PK	68.3	-7.3	1.44 V	124	9.90	51.10

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	100.3 PK			1.05 H	302	61.20	39.10
2	*5670.00	90.1 AV			1.05 H	302	51.00	39.10
3	#5725.00	62.8 PK	68.3	-5.5	1.05 H	302	23.60	39.20
4	11340.00	56.0 PK	74.0	-18.0	1.03 H	58	6.70	49.30
5	11340.00	43.6 AV	54.0	-10.4	1.03 H	58	-5.70	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	106.4 PK			1.02 V	45	67.30	39.10
2	*5670.00	95.9 AV			1.02 V	45	56.80	39.10
3	#5725.00	66.5 PK	68.3	-1.8	1.02 V	45	27.30	39.20
4	11340.00	56.2 PK	74.0	-17.8	1.14 V	127	6.90	49.30
5	11340.00	43.3 AV	54.0	-10.7	1.14 V	127	-6.00	49.30

REMARKS:

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

802.11n (20MHz): 2TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.8 PK	74.0	-6.2	1.26 H	236	29.60	38.20
2	5150.00	51.3 AV	54.0	-2.7	1.26 H	236	13.10	38.20
3	*5180.00	103.1 PK			1.26 H	236	64.90	38.20
4	*5180.00	90.2 AV			1.26 H	236	52.00	38.20
5	#10360.00	56.0 PK	68.3	-12.3	1.39 H	90	8.00	48.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	1.02 V	44	27.20	38.20
2	**5150.00**	**53.0 AV**	**54.0**	**-1.0**	**1.02 V**	**44**	**14.80**	**38.20**
3	*5180.00	109.6 PK			1.02 V	44	71.40	38.20
4	*5180.00	96.7 AV			1.02 V	44	58.50	38.20
5	#10360.00	55.4 PK	68.3	-12.9	1.00 V	83	7.40	48.00

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	103.2 PK			1.26 H	236	65.00	38.20
2	*5200.00	90.4 AV			1.26 H	236	52.20	38.20
3	#10400.00	56.4 PK	68.3	-11.9	1.35 H	92	8.30	48.10
4	15600.00	59.2 PK	74.0	-14.8	1.14 H	241	10.10	49.10
5	15600.00	46.0 AV	54.0	-8.0	1.14 H	241	-3.10	49.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.5 PK			1.02 V	42	71.30	38.20
2	*5200.00	96.8 AV			1.02 V	42	58.60	38.20
3	#10400.00	55.7 PK	68.3	-12.6	1.00 V	81	7.60	48.10
4	15600.00	59.5 PK	74.0	-14.5	1.43 V	284	10.40	49.10
5	15600.00	46.3 AV	54.0	-7.7	1.43 V	284	-2.80	49.10

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	42.9 PK	74.0	-31.1	1.31 H	293	15.60	27.30
2	1125.00	31.9 AV	54.0	-22.1	1.31 H	293	4.60	27.30
3	*5240.00	103.3 PK			1.25 H	235	65.00	38.30
4	*5240.00	90.4 AV			1.25 H	235	52.10	38.30
5	#10480.00	56.7 PK	68.3	-11.6	1.35 H	93	8.50	48.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	46.2 PK	74.0	-27.8	1.15 V	251	18.90	27.30
2	1125.00	34.3 AV	54.0	-19.7	1.15 V	251	7.00	27.30
3	*5240.00	111.3 PK			1.02 V	42	73.00	38.30
4	*5240.00	98.1 AV			1.02 V	42	59.80	38.30
5	#10480.00	56.0 PK	68.3	-12.3	1.00 V	81	7.80	48.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	42.9 PK	74.0	-31.1	1.00 H	165	15.60	27.30
2	1125.00	31.9 AV	54.0	-22.1	1.00 H	165	4.60	27.30
3	*5260.00	104.0 PK			1.19 H	66	65.70	38.30
4	*5260.00	91.0 AV			1.19 H	66	52.70	38.30
5	#10520.00	56.7 PK	68.3	-11.6	1.34 H	86	8.40	48.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	46.9 PK	74.0	-27.1	1.32 V	274	19.60	27.30
2	1125.00	34.9 AV	54.0	-19.1	1.32 V	274	7.60	27.30
3	*5260.00	111.5 PK			1.00 V	41	73.20	38.30
4	*5260.00	98.6 AV			1.00 V	41	60.30	38.30
5	#10520.00	55.9 PK	68.3	-12.4	1.00 V	80	7.60	48.30

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	42.6 PK	74.0	-31.4	1.00 H	161	15.30	27.30
2	1125.00	31.6 AV	54.0	-22.4	1.00 H	161	4.30	27.30
3	*5300.00	103.8 PK			1.19 H	64	65.40	38.40
4	*5300.00	90.6 AV			1.19 H	64	52.20	38.40
5	10600.00	53.3 PK	74.0	-20.7	1.31 H	82	5.00	48.30
6	10600.00	43.1 AV	54.0	-10.9	1.31 H	82	-5.20	48.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	46.6 PK	74.0	-27.4	1.36 V	274	19.30	27.30
2	1125.00	34.7 AV	54.0	-19.3	1.36 V	274	7.40	27.30
3	*5300.00	111.7 PK			1.00 V	39	73.30	38.40
4	*5300.00	98.7 AV			1.00 V	39	60.30	38.40
5	10600.00	56.9 PK	74.0	-17.1	1.00 V	83	8.60	48.30
6	10600.00	46.4 AV	54.0	-7.6	1.00 V	83	-1.90	48.30

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	**FREQUENCY RANGE**	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	**TESTED BY**	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5320.00	103.0 PK			1.09 H	71	64.60	38.40
2	*5320.00	90.2 AV			1.09 H	71	51.80	38.40
3	5350.00	63.4 PK	74.0	-10.6	1.09 H	71	24.90	38.50
4	5350.00	44.9 AV	54.0	-9.1	1.09 H	71	6.40	38.50
5	10640.00	53.0 PK	74.0	-21.0	1.35 H	86	4.50	48.50
6	10640.00	42.8 AV	54.0	-11.2	1.35 H	86	-5.70	48.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5320.00	111.4 PK			1.00 V	40	73.00	38.40
2	*5320.00	98.4 AV			1.00 V	40	60.00	38.40
3	5350.00	70.6 PK	74.0	-3.4	1.00 V	40	32.10	38.50
4	5350.00	50.2 AV	54.0	-3.8	1.00 V	40	11.70	38.50
5	10640.00	56.7 PK	74.0	-17.3	1.00 V	88	8.20	48.50
6	10640.00	46.1 AV	54.0	-7.9	1.00 V	88	-2.40	48.50

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.1 PK	74.0	-17.9	1.31 H	74	17.40	38.70
2	5460.00	43.8 AV	54.0	-10.2	1.31 H	74	5.10	38.70
3	#5470.00	60.2 PK	68.3	-8.1	1.31 H	74	21.50	38.70
4	*5500.00	101.2 PK			1.31 H	74	62.50	38.70
5	*5500.00	88.3 AV			1.31 H	74	49.60	38.70
6	11000.00	52.6 PK	74.0	-21.4	1.32 H	82	3.40	49.20
7	11000.00	42.3 AV	54.0	-11.7	1.32 H	82	-6.90	49.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.5 PK	74.0	-11.5	1.07 V	41	23.80	38.70
2	5460.00	46.4 AV	54.0	-7.6	1.07 V	41	7.70	38.70
3	#5470.00	67.1 PK	68.3	-1.2	1.07 V	41	28.40	38.70
4	*5500.00	109.0 PK			1.07 V	41	70.30	38.70
5	*5500.00	96.0 AV			1.07 V	41	57.30	38.70
6	11000.00	56.2 PK	74.0	-17.8	1.00 V	82	7.00	49.20
7	11000.00	45.7 AV	54.0	-8.3	1.00 V	82	-3.50	49.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	42.7 PK	74.0	-31.3	1.00 H	186	15.40	27.30
2	1125.00	31.7 AV	54.0	-22.3	1.00 H	186	4.40	27.30
3	*5580.00	103.7 PK			1.00 H	76	64.80	38.90
4	*5580.00	90.4 AV			1.00 H	76	51.50	38.90
5	11160.00	53.9 PK	74.0	-20.1	1.35 H	86	4.60	49.30
6	11160.00	43.7 AV	54.0	-10.3	1.35 H	86	-5.60	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	46.6 PK	74.0	-27.4	1.36 V	255	19.30	27.30
2	1125.00	34.6 AV	54.0	-19.4	1.36 V	255	7.30	27.30
3	*5580.00	111.7 PK			1.03 V	43	72.80	38.90
4	*5580.00	98.7 AV			1.03 V	43	59.80	38.90
5	11160.00	56.9 PK	74.0	-17.1	1.00 V	80	7.60	49.30
6	11160.00	46.4 AV	54.0	-7.6	1.00 V	80	-2.90	49.30

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	100.5 PK			1.35 H	84	61.30	39.20
2	*5700.00	87.3 AV			1.35 H	84	48.10	39.20
3	#5725.00	59.9 PK	68.3	-8.4	1.35 H	84	20.70	39.20
4	11400.00	52.9 PK	74.0	-21.1	1.36 H	89	3.60	49.30
5	11400.00	42.5 AV	54.0	-11.5	1.36 H	89	-6.80	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	108.1 PK			1.12 V	45	68.90	39.20
2	*5700.00	95.1 AV			1.12 V	45	55.90	39.20
3	#5725.00	67.2 PK	68.3	-1.1	1.12 V	45	28.00	39.20
4	11400.00	56.4 PK	74.0	-17.6	1.00 V	80	7.10	49.30
5	11400.00	45.9 AV	54.0	-8.1	1.00 V	80	-3.40	49.30

REMARKS:

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

802.11n (40MHz): 2TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	67.2 PK	74.0	-6.8	1.13 H	73	29.00	38.20
2	5150.00	52.3 AV	54.0	-1.7	1.13 H	73	14.10	38.20
3	*5190.00	97.9 PK			1.13 H	73	59.70	38.20
4	*5190.00	87.4 AV			1.13 H	73	49.20	38.20
5	#10380.00	55.6 PK	68.3	-12.7	1.35 H	85	7.60	48.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	1.10 V	78	30.10	38.20
2	**5150.00**	**53.0 AV**	**54.0**	**-1.0**	**1.10 V**	**78**	**14.80**	**38.20**
3	*5190.00	101.7 PK			1.10 V	78	63.50	38.20
4	*5190.00	91.2 AV			1.10 V	78	53.00	38.20
5	#10380.00	55.1 PK	68.3	-13.2	1.00 V	88	7.10	48.00

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	41.3 PK	74.0	-32.7	1.32 H	296	14.00	27.30
2	1125.00	30.4 AV	54.0	-23.6	1.32 H	296	3.10	27.30
3	*5230.00	100.4 PK			1.11 H	73	62.10	38.30
4	*5230.00	89.9 AV			1.11 H	73	51.60	38.30
5	#10460.00	56.1 PK	68.3	-12.2	1.32 H	81	7.90	48.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	44.5 PK	74.0	-29.5	1.15 V	251	17.20	27.30
2	1125.00	32.7 AV	54.0	-21.3	1.15 V	251	5.40	27.30
3	*5230.00	105.1 PK			1.08 V	77	66.80	38.30
4	*5230.00	94.7 AV			1.08 V	77	56.40	38.30
5	#10460.00	55.6 PK	68.3	-12.7	1.00 V	82	7.40	48.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	41.9 PK	74.0	-32.1	1.36 H	291	14.60	27.30
2	1125.00	31.0 AV	54.0	-23.0	1.36 H	291	3.70	27.30
3	*5270.00	100.4 PK			1.10 H	71	62.00	38.40
4	*5270.00	89.9 AV			1.10 H	71	51.50	38.40
5	#10540.00	56.7 PK	68.3	-11.6	1.35 H	85	8.40	48.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	44.9 PK	74.0	-29.1	1.13 V	251	17.60	27.30
2	1125.00	33.1 AV	54.0	-20.9	1.13 V	251	5.80	27.30
3	*5270.00	107.8 PK			1.07 V	75	69.40	38.40
4	*5270.00	97.3 AV			1.07 V	75	58.90	38.40
5	#10540.00	56.5 PK	68.3	-11.8	1.00 V	85	8.20	48.30

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	**FREQUENCY RANGE**	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	**TESTED BY**	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5310.00	95.6 PK			1.07 H	72	57.20	38.40
2	*5310.00	85.2 AV			1.07 H	72	46.80	38.40
3	5350.00	49.5 PK	74.0	-24.5	1.07 H	72	11.00	38.50
4	5350.00	46.1 AV	54.0	-7.9	1.07 H	72	7.60	38.50
5	10620.00	52.1 PK	74.0	-21.9	1.30 H	82	3.70	48.40
6	10620.00	41.8 AV	54.0	-12.2	1.30 H	82	-6.60	48.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5310.00	103.5 PK			1.17 V	74	65.10	38.40
2	*5310.00	93.0 AV			1.17 V	74	54.60	38.40
3	5350.00	67.2 PK	74.0	-6.8	1.17 V	74	28.70	38.50
4	5350.00	52.3 AV	54.0	-1.7	1.17 V	74	13.80	38.50
5	10620.00	55.7 PK	74.0	-18.3	1.00 V	81	7.30	48.40
6	10620.00	45.2 AV	54.0	-8.8	1.00 V	81	-3.20	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.9 PK	74.0	-17.1	1.01 H	41	18.20	38.70
2	5460.00	44.4 AV	54.0	-9.6	1.01 H	41	5.70	38.70
3	#5470.00	60.5 PK	68.3	-7.8	1.01 H	41	21.80	38.70
4	*5510.00	94.6 PK			1.01 H	41	55.80	38.80
5	*5510.00	84.1 AV			1.01 H	41	45.30	38.80
6	11020.00	51.7 PK	74.0	-22.3	1.27 H	86	2.50	49.20
7	11020.00	41.3 AV	54.0	-12.7	1.27 H	86	-7.90	49.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.6 PK	74.0	-11.4	1.05 V	41	23.90	38.70
2	5460.00	47.9 AV	54.0	-6.1	1.05 V	41	9.20	38.70
3	#5470.00	67.1 PK	68.3	-1.2	1.05 V	41	28.40	38.70
4	*5510.00	103.3 PK			1.05 V	41	64.50	38.80
5	*5510.00	92.8 AV			1.05 V	41	54.00	38.80
6	11020.00	55.3 PK	74.0	-18.7	1.00 V	87	6.10	49.20
7	11020.00	44.8 AV	54.0	-9.2	1.00 V	87	-4.40	49.20

REMARKS:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	41.7 PK	74.0	-32.3	1.32 H	295	14.40	27.30
2	1125.00	30.7 AV	54.0	-23.3	1.32 H	295	3.40	27.30
3	*5590.00	99.7 PK			1.00 H	40	60.80	38.90
4	*5590.00	89.2 AV			1.00 H	40	50.30	38.90
5	11180.00	52.7 PK	74.0	-21.3	1.24 H	83	3.40	49.30
6	11180.00	42.3 AV	54.0	-11.7	1.24 H	83	-7.00	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1125.00	44.6 PK	74.0	-29.4	1.12 V	253	17.30	27.30
2	1125.00	32.9 AV	54.0	-21.1	1.12 V	253	5.60	27.30
3	*5590.00	108.0 PK			1.04 V	38	69.10	38.90
4	*5590.00	97.5 AV			1.04 V	38	58.60	38.90
5	11180.00	56.3 PK	74.0	-17.7	1.00 V	90	7.00	49.30
6	11180.00	45.8 AV	54.0	-8.2	1.00 V	90	-3.50	49.30

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	**FREQUENCY RANGE**	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	**TESTED BY**	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5670.00	97.8 PK			1.08 H	26	58.70	39.10
2	*5670.00	87.3 AV			1.08 H	26	48.20	39.10
3	#5725.00	58.6 PK	68.3	-9.7	1.08 H	26	19.40	39.20
4	11340.00	52.5 PK	74.0	-21.5	1.28 H	86	3.20	49.30
5	11340.00	42.1 AV	54.0	-11.9	1.28 H	86	-7.20	49.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*5670.00	106.3 PK			1.12 V	41	67.20	39.10
2	*5670.00	95.8 AV			1.12 V	41	56.70	39.10
3	**#5725.00**	**67.3 PK**	**68.3**	**-1.0**	**1.12 V**	**41**	**28.10**	**39.20**
4	11340.00	56.1 PK	74.0	-17.9	1.00 V	85	6.80	49.30
5	11340.00	45.5 AV	54.0	-8.5	1.00 V	85	-3.80	49.30

REMARKS:

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

BELOW 1GHz WORST-CASE DATA：

802.11n (20MHz): 2TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	163.86	22.0 QP	43.5	-21.5	1.50 H	271	8.20	13.80
2	289.96	28.7 QP	46.0	-17.3	1.00 H	85	14.20	14.50
3	386.96	21.8 QP	46.0	-24.2	1.00 H	135	4.70	17.10
4	480.08	33.4 QP	46.0	-12.6	1.50 H	284	13.80	19.60
5	544.10	26.7 QP	46.0	-19.3	1.00 H	234	5.60	21.10
6	720.64	32.8 QP	46.0	-13.2	1.00 H	226	9.50	23.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	36.5 QP	40.0	-3.5	1.25 V	356	24.60	11.90
2	140.58	30.5 QP	43.5	-13.0	1.00 V	3	16.90	13.60
3	189.08	28.7 QP	43.5	-14.8	1.00 V	187	16.70	12.00
4	386.96	29.1 QP	46.0	-16.9	1.25 V	16	12.00	17.10
5	480.08	33.7 QP	46.0	-12.3	1.00 V	154	14.10	19.60
6	720.64	30.8 QP	46.0	-15.2	1.50 V	243	7.50	23.30

REMARKS:

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

802.11n (40MHz): 2TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 110	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TESTED BY	Anderson Hong

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	43.58	23.0 QP	40.0	-17.0	1.50 H	40	9.20	13.80
2	171.62	22.4 QP	43.5	-21.1	1.25 H	256	9.00	13.40
3	289.96	28.8 QP	46.0	-17.2	1.00 H	115	14.30	14.50
4	480.08	33.0 QP	46.0	-13.0	1.50 H	288	13.40	19.60
5	544.10	27.7 QP	46.0	-18.3	1.00 H	14	6.60	21.10
6	720.64	32.9 QP	46.0	-13.1	1.00 H	249	9.60	23.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	36.5 QP	40.0	-3.5	1.00 V	315	24.60	11.90
2	140.58	30.5 QP	43.5	-13.0	1.00 V	18	16.90	13.60
3	163.86	27.7 QP	43.5	-15.8	1.00 V	40	13.90	13.80
4	386.96	29.0 QP	46.0	-17.0	1.25 V	1	11.90	17.10
5	480.08	33.9 QP	46.0	-12.1	1.00 V	154	14.30	19.60
6	720.64	30.3 QP	46.0	-15.7	1.00 V	295	7.00	23.30

REMARKS:

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

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

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

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

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 23, 2011	Nov. 22, 2012
RF signal cable Woken	5D-FB	Cable-HYC01-01	Dec. 29, 2011	Dec. 28, 2012
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 02, 2012	Jul. 01, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 07, 2012	Feb. 06, 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 1.

3. The VCCI Site Registration No. is C-2040.

4.2.3 TEST PROCEDURES

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

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

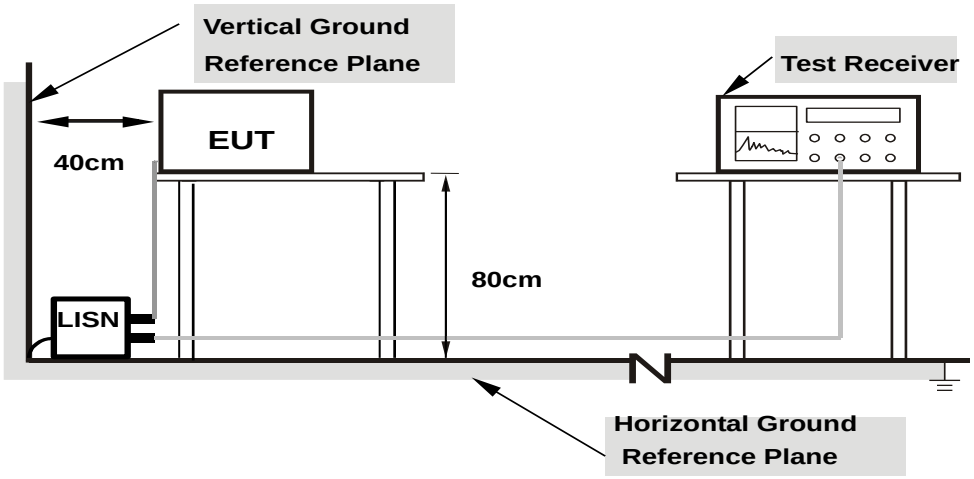
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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：

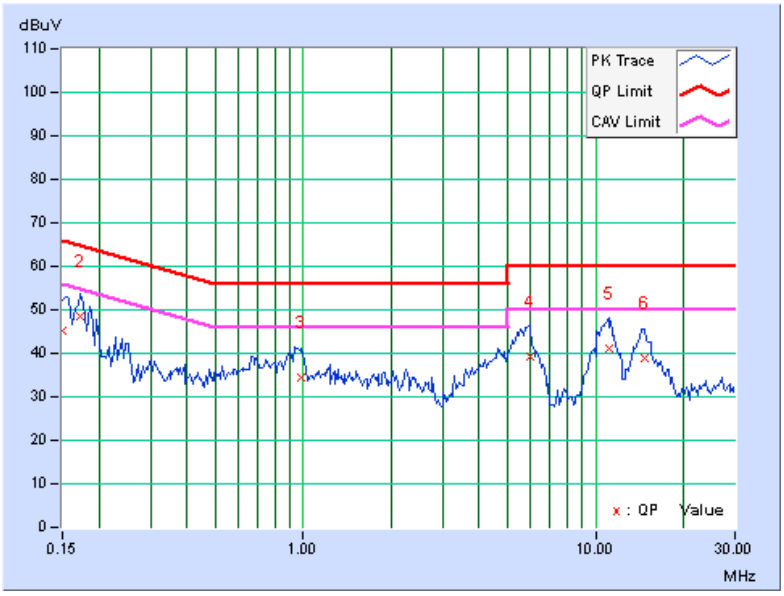
802.11n (20MHz): 2TX

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	Channel 64		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.11	44.99	32.72	45.10	32.83	66.00	56.00	-20.90	-23.17
2	0.17344	0.12	48.53	35.10	48.65	35.22	64.79	54.79	-16.14	-19.57
3	0.98594	0.19	34.36	24.81	34.55	25.00	56.00	46.00	-21.45	-21.00
4	5.93750	0.44	38.88	27.99	39.32	28.43	60.00	50.00	-20.68	-21.57
5	11.09375	0.70	40.46	33.01	41.16	33.71	60.00	50.00	-18.84	-16.29
6	14.70313	0.89	38.16	31.15	39.05	32.04	60.00	50.00	-20.95	-17.96

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.

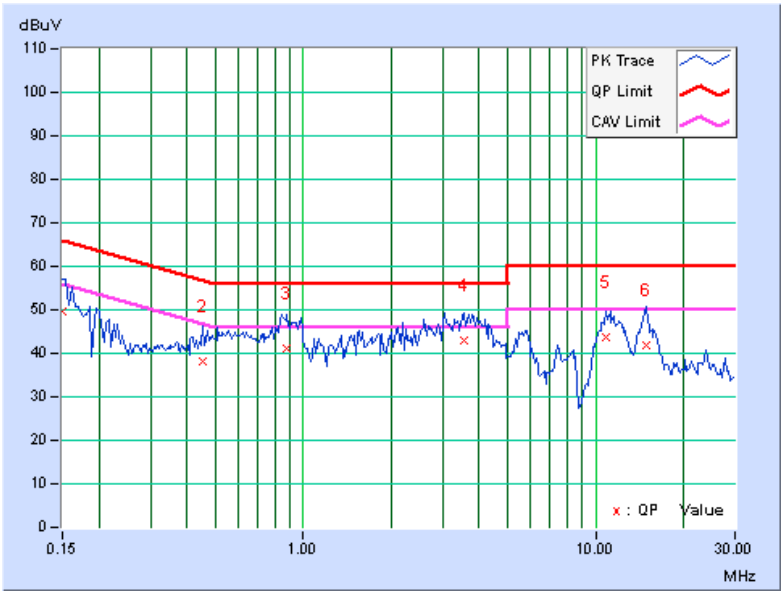


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	Channel 64		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.12	49.49	31.77	49.61	31.89	66.00	56.00	-16.39	-24.11
2	0.45469	0.16	38.15	27.42	38.31	27.58	56.79	46.79	-18.48	-19.21
3	0.87656	0.20	40.77	29.01	40.97	29.21	56.00	46.00	-15.03	-16.79
4	**3.55078**	**0.32**	**42.58**	**36.19**	**42.90**	**36.51**	**56.00**	**46.00**	**-13.10**	**-9.49**
5	10.86719	0.62	43.20	37.17	43.82	37.79	60.00	50.00	-16.18	-12.21
6	14.86328	0.77	41.11	34.07	41.88	34.84	60.00	50.00	-18.12	-15.16

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.



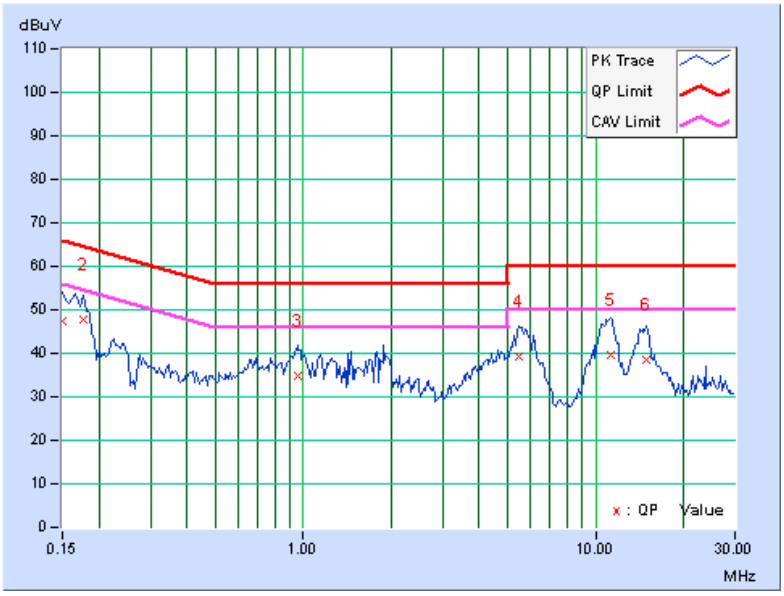
802.11n (40MHz): 2TX

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	Channel 110		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.11	47.46	33.63	47.57	33.74	66.00	56.00	-18.43	-22.26
2	0.17734	0.12	47.56	34.57	47.68	34.69	64.61	54.61	-16.93	-19.92
3	0.95469	0.19	34.78	24.89	34.97	25.08	56.00	46.00	-21.03	-20.92
4	5.47266	0.41	38.94	29.75	39.35	30.16	60.00	50.00	-20.65	-19.84
5	11.31641	0.71	38.96	30.19	39.67	30.90	60.00	50.00	-20.33	-19.10
6	14.88281	0.90	37.45	30.75	38.35	31.65	60.00	50.00	-21.65	-18.35

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.

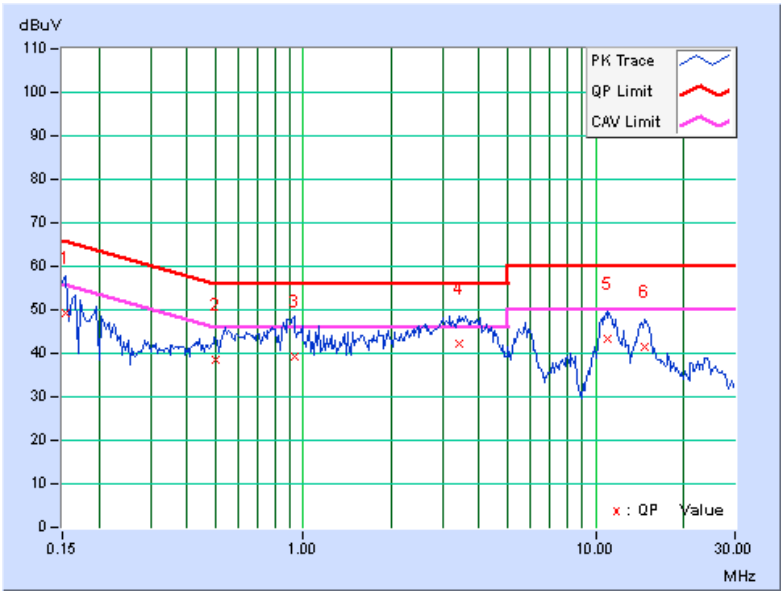


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	Channel 110		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.13	49.01	33.22	49.14	33.35	65.79	55.79	-16.65	-22.44
2	0.50000	0.16	38.33	27.92	38.49	28.08	56.00	46.00	-17.51	-17.92
3	0.93125	0.20	39.17	29.82	39.37	30.02	56.00	46.00	-16.63	-15.98
4	3.42188	0.32	41.75	35.38	42.07	35.70	56.00	46.00	-13.93	-10.30
5	10.92969	0.63	42.82	36.97	43.45	37.60	60.00	50.00	-16.55	-12.40
6	14.72266	0.77	40.57	34.21	41.34	34.98	60.00	50.00	-18.66	-15.02

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

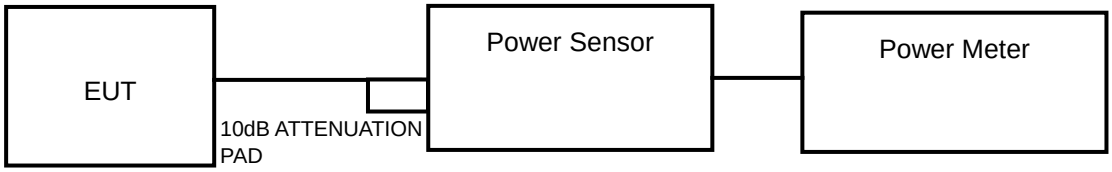
4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

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

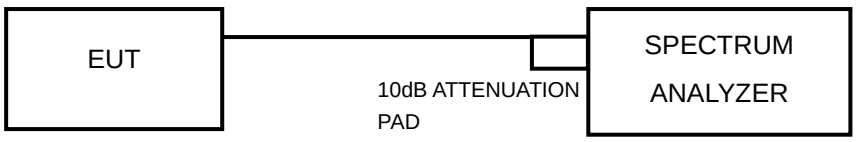
NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



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 (Method-PM)

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.

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: 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	26.363	14.21	17	PASS
40	5200	28.249	14.51	17	PASS
48	5240	27.416	14.38	17	PASS
52	5260	33.729	15.28	24	PASS
60	5300	36.559	15.63	24	PASS
64	5320	38.905	15.9	24	PASS
100	5500	38.548	15.86	24	PASS
116	5580	38.019	15.8	24	PASS
140	5700	37.411	15.73	24	PASS

802.11n (20MHz): 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	28.249	14.51	17	PASS
40	5200	29.174	14.65	17	PASS
48	5240	28.054	14.48	17	PASS
52	5260	37.154	15.7	24	PASS
60	5300	31.769	15.02	24	PASS
64	5320	37.325	15.72	24	PASS
100	5500	39.264	15.94	24	PASS
116	5580	38.019	15.8	24	PASS
140	5700	26.977	14.31	24	PASS

802.11n (40MHz): 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	15.241	11.83	17	PASS
46	5230	34.277	15.35	17	PASS
54	5270	34.754	15.41	24	PASS
62	5310	16.634	12.21	24	PASS
102	5510	22.131	13.45	24	PASS
110	5550	39.084	15.92	24	PASS
134	5670	37.239	15.71	24	PASS

802.11n (20MHz): 2TX

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	12.41	11.78	32.5	15.1	17	PASS
40	5200	12.31	11.53	31.2	14.9	17	PASS
48	5240	11.93	11.12	28.5	14.6	17	PASS
52	5260	12.81	12.52	37.0	15.7	24	PASS
60	5300	13.41	12.62	40.2	16.0	24	PASS
64	5320	12.86	13.35	40.9	16.1	24	PASS
100	5500	12.63	13.2	39.2	15.9	24	PASS
116	5580	12.82	13.19	40.0	16.0	24	PASS
140	5700	12.36	12.5	35.0	15.4	24	PASS

802.11n (40MHz): 2TX

CHAN.	CHAN. FREQ. (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	10.26	11.17	23.7	13.7	17	PASS
46	5230	13.18	13.36	42.5	16.3	17	PASS
54	5270	12.39	12.32	34.4	15.4	24	PASS
62	5310	12.43	12.4	34.9	15.4	24	PASS
102	5510	13.04	11.37	33.8	15.3	24	PASS
110	5550	13.03	13.09	40.5	16.1	24	PASS
134	5670	12.34	12.58	35.3	15.5	24	PASS

26dB BANDWIDTH: 802.11a: 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	21.26	PASS
40	5200	21.10	PASS
48	5240	21.21	PASS
52	5260	23.94	PASS
60	5300	23.90	PASS
64	5320	25.63	PASS
100	5500	25.56	PASS
116	5580	26.40	PASS
140	5700	21.26	PASS

802.11n (20MHz): 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	23.19	PASS
40	5200	23.18	PASS
48	5240	23.09	PASS
52	5260	27.02	PASS
60	5300	26.94	PASS
64	5320	28.36	PASS
100	5500	27.74	PASS
116	5580	28.22	PASS
140	5700	27.56	PASS

802.11n (40MHz): 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	41.32	PASS
46	5230	41.34	PASS
54	5270	44.99	PASS
62	5310	41.31	PASS
102	5510	41.22	PASS
110	5550	54.23	PASS
134	5670	57.47	PASS

802.11n (20MHz): 2TX

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	21.06	21.02	PASS
40	5200	21.29	21.13	PASS
48	5240	21.07	21.11	PASS
52	5260	21.06	21.18	PASS
60	5300	22.09	21.36	PASS
64	5320	21.23	21.63	PASS
100	5500	21.18	21.44	PASS
116	5580	21.14	25.49	PASS
140	5700	21.57	21.06	PASS

802.11n (40MHz): 2TX

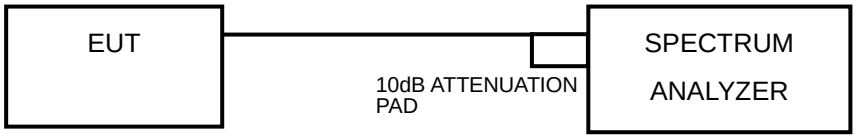
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	40.75	41.09	PASS
46	5230	41.18	41.22	PASS
54	5270	40.77	41.09	PASS
62	5310	40.83	41.13	PASS
102	5510	40.66	41.03	PASS
110	5550	42.37	55.20	PASS
134	5670	45.29	40.26	PASS

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

Using method SA-1 for 802.11a / 802.11n (20MHz) & 802.11n (40MHz): 1TX / 802.11n (20MHz): 2TX

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

Using method SA-2 alternative for 802.11n (40MHz): 2TX

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Sweep time = 32 second.
4) Trace average at least 100 traces in power averaging mode.
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: 1TX

CHANNEL	FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	3.56	4	PASS
40	5200	3.79	4	PASS
48	5240	3.44	4	PASS
52	5260	5.03	11	PASS
60	5300	4.52	11	PASS
64	5320	5.30	11	PASS
100	5500	5.17	11	PASS
116	5580	5.35	11	PASS
140	5700	4.79	11	PASS

802.11n (20MHz): 1TX

CHANNEL	FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	3.43	4	PASS
40	5200	3.61	4	PASS
48	5240	3.90	4	PASS
52	5260	4.67	11	PASS
60	5300	4.10	11	PASS
64	5320	4.82	11	PASS
100	5500	4.64	11	PASS
116	5580	4.32	11	PASS
140	5700	3.78	11	PASS

802.11n (40MHz): 1TX

CHANNEL	FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-2.13	4	PASS
46	5230	1.61	4	PASS
54	5270	1.19	11	PASS
62	5310	-1.72	11	PASS
102	5510	-0.75	11	PASS
110	5550	1.79	11	PASS
134	5670	1.54	11	PASS

802.11n (20MHz): 2TX

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
36	5180	1.23	0.68	3.933	4	PASS
40	5200	0.75	0.27	3.468	4	PASS
48	5240	1.06	0.90	3.924	4	PASS
52	5260	1.35	1.21	4.267	11	PASS
60	5300	1.29	1.12	4.19	11	PASS
64	5320	1.56	1.39	4.445	11	PASS
100	5500	1.14	1.92	4.511	11	PASS
116	5580	0.94	1.76	4.341	11	PASS
140	5700	-0.37	-0.01	2.806	11	PASS

802.11n (40MHz): 2TX

CHAN.	CHAN. FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
38	5190	-3.64	-2.23	0.122	0.15	0.272	4	PASS
46	5230	-0.87	0.19	2.69	0.15	2.84	4	PASS
54	5270	-1.49	-1.23	1.629	0.15	1.779	11	PASS
62	5310	-1.64	-1.12	1.637	0.15	1.787	11	PASS
102	5510	-0.87	-2.08	1.567	0.15	1.717	11	PASS
110	5550	-1.08	-0.51	2.225	0.15	2.375	11	PASS
134	5670	-1.65	-1.24	1.557	0.15	1.707	11	PASS

NOTE:

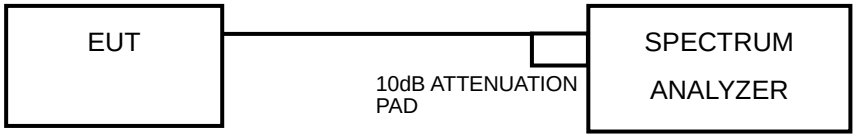
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Refer to section 3.3 for duty cycle spectrum plot.

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 ≥ 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.

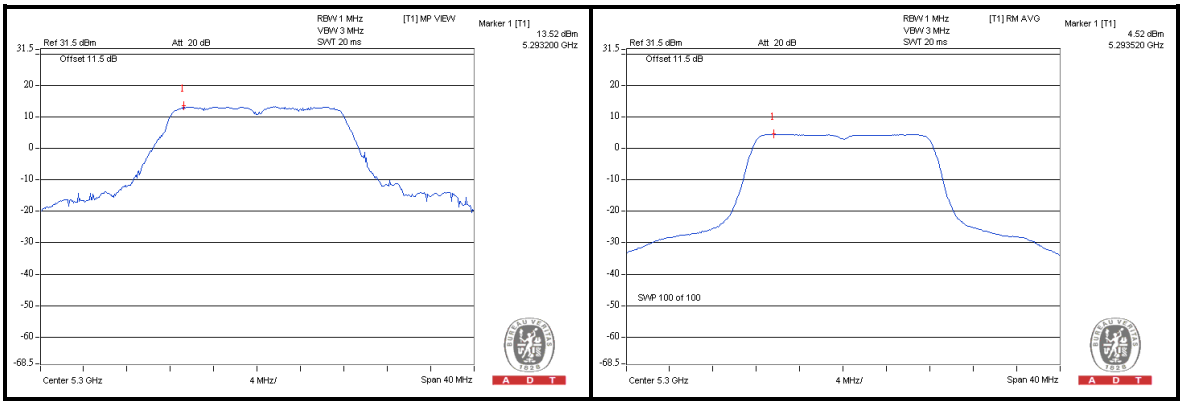
4.5.6 EUT OPERATING CONDITIONS

Same as 4.2.6

4.5.7 TEST RESULTS

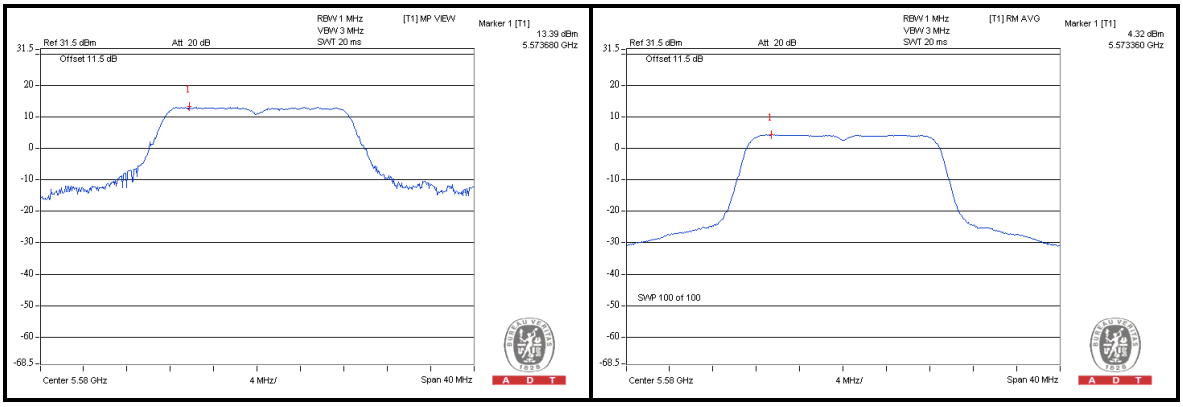
802.11a: 1TX

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK EXCURSION (dB)	LIMIT (dB)	PASS/FAIL
36	5180	12.16	3.56	8.60	13	PASS
40	5200	12.31	3.79	8.52	13	PASS
48	5240	12.21	3.44	8.77	13	PASS
52	5260	12.46	5.03	7.43	13	PASS
60	5300	13.52	4.52	9.00	13	PASS
64	5320	13.74	5.30	8.44	13	PASS
100	5500	13.67	5.17	8.50	13	PASS
116	5580	13.93	5.35	8.58	13	PASS
140	5700	13.51	4.79	8.72	13	PASS



802.11n (20MHz): 1TX

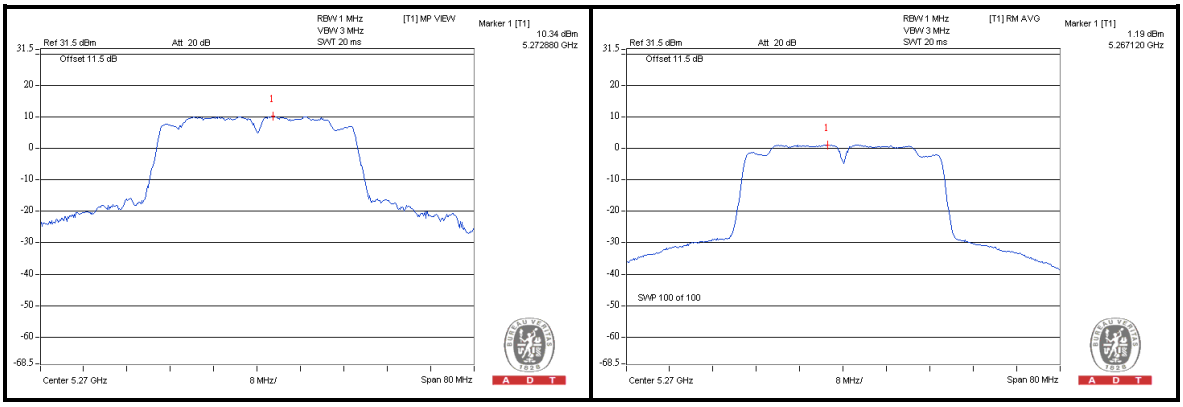
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK EXCURSION (dB)	LIMIT (dB)	PASS/FAIL
36	5180	12.19	3.43	8.76	13	PASS
40	5200	12.23	3.61	8.62	13	PASS
48	5240	12.01	3.9	8.11	13	PASS
52	5260	13.3	4.67	8.63	13	PASS
60	5300	12.53	4.1	8.43	13	PASS
64	5320	13.64	4.82	8.82	13	PASS
100	5500	13.49	4.64	8.85	13	PASS
116	5580	13.39	4.32	9.07	13	PASS
140	5700	12.19	3.43	8.76	13	PASS



802.11n (40MHz): 1TX

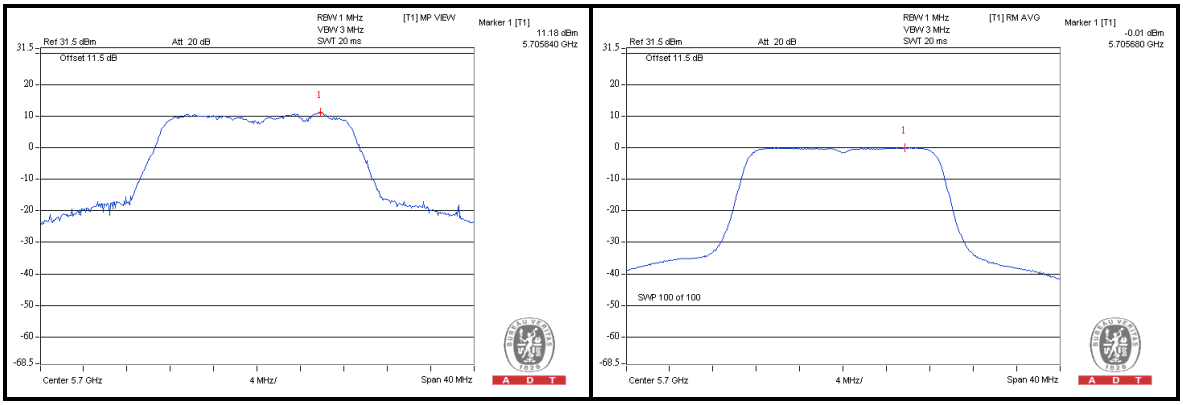
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK VALUE (dBm)	PPSD (dBm)	PEAK EXCURSION (dB)	LIMIT (dB)	PASS/FAIL
38	5190	6.89	-2.13	9.02	13	PASS
46	5230	10.23	1.61	8.62	13	PASS
54	5270	10.34	1.19	9.15	13	PASS
62	5310	7.1	-1.72	8.82	13	PASS
102	5510	8.33	-0.75	9.08	13	PASS
110	5550	10.86	1.79	9.07	13	PASS
134	5670	10.62	1.54	9.08	13	PASS

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



802.11n (20MHz): 2TX

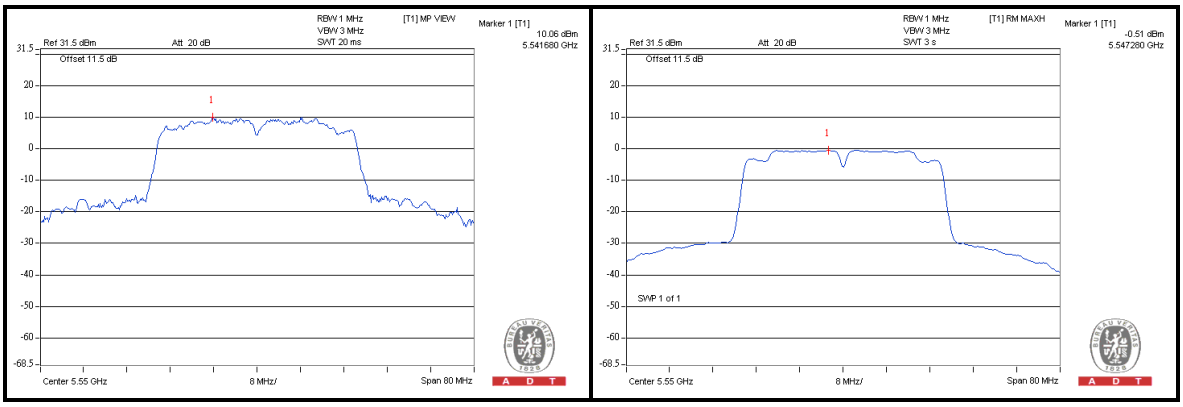
CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)		PPSD (dBm)		PEAK EXCURSION (dB)		LIMIT (dB)	PASS/ FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
36	5180	10.44	10.59	1.23	0.68	9.21	9.91	13	PASS
40	5200	10.14	10.41	0.75	0.27	9.39	10.14	13	PASS
48	5240	10.16	9.72	1.06	0.90	9.10	8.82	13	PASS
52	5260	10.9	11.47	1.35	1.21	9.55	10.26	13	PASS
60	5300	11.34	11.66	1.29	1.12	10.05	10.54	13	PASS
64	5320	11.07	12.09	1.56	1.39	9.51	10.70	13	PASS
100	5500	10.91	12.21	1.14	1.92	9.77	10.29	13	PASS
116	5580	10.81	12.07	0.94	1.76	9.87	10.31	13	PASS
140	5700	10.3	11.18	-0.37	-0.01	10.67	11.19	13	PASS



802.11n (40MHz): 2TX

CHAN.	CHAN. FREQ. (MHz)	PEAK VALUE (dBm)		PPSD WITHOUT DUTY FACTOR (dBm)		PPSD WITH DUTY FACTOR (dBm)		PEAK EXCURSION (dB)		LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1		
38	5190	6.32	7.82	-3.64	-2.23	-3.49	-2.08	9.81	9.90	13	PASS
46	5230	9.02	10.59	-0.87	0.19	-0.72	0.34	9.74	10.25	13	PASS
54	5270	8.24	8.84	-1.49	-1.23	-1.34	-1.08	9.58	9.92	13	PASS
62	5310	8.48	8.92	-1.64	-1.12	-1.49	-0.97	9.97	9.89	13	PASS
102	5510	8.92	8.38	-0.87	-2.08	-0.72	-1.93	9.64	10.31	13	PASS
110	5550	8.99	10.06	-1.08	-0.51	-0.93	-0.36	9.92	10.42	13	PASS
134	5670	8.36	8.92	-1.65	-1.24	-1.50	-1.09	9.86	10.01	13	PASS

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

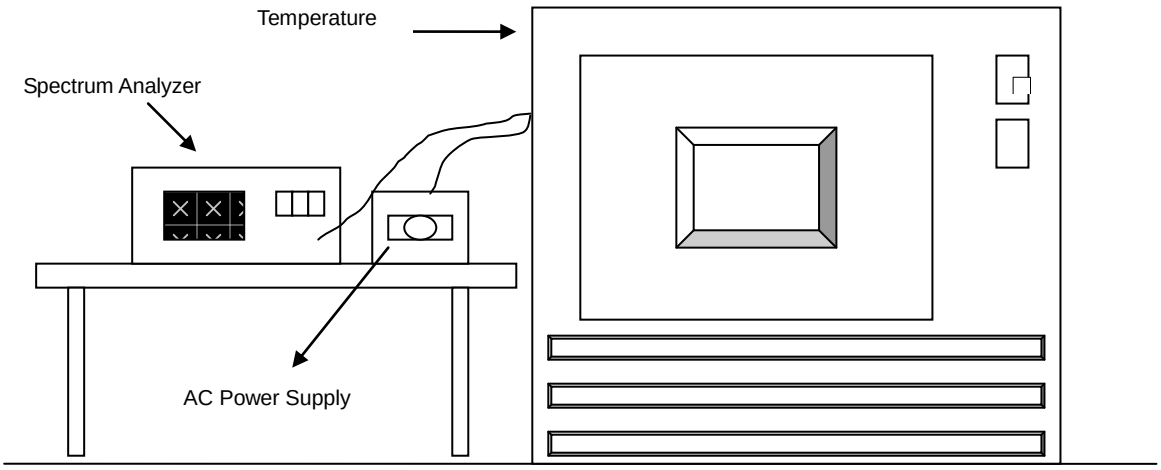


4.6 FREQUENCY STABILITY

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. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

c. Turn the EUT off and set the chamber to the highest temperature specified.

d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.

e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.

f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

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

4.6.7 TEST RESULTS

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5200MHz									
TEMP. (℃)	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)
50	120.0	5199.948617	-9.881	5199.948722	-9.861	5199.948841	-9.838	5199.948586	-9.887
40	120.0	5199.952519	-9.131	5199.952545	-9.126	5199.952252	-9.182	5199.952288	-9.175
30	120.0	5199.967494	-6.251	5199.967406	-6.268	5199.967593	-6.232	5199.967518	-6.247
20	120.0	5199.975918	-4.654	5199.976157	-4.621	5199.975858	-4.651	5199.976014	-4.613
10	120.0	5199.984717	-2.939	5199.984944	-2.895	5199.984894	-2.905	5199.984563	-2.969
0	120.0	5199.991408	-1.652	5199.991680	-1.600	5199.991295	-1.674	5199.991428	-1.648
-10	120.0	5199.997736	-0.435	5199.998028	-0.379	5199.997927	-0.399	5199.997979	-0.389
-20	120.0	5199.997912	-0.402	5199.997817	-0.420	5199.997985	-0.388	5199.997778	-0.427
-30	120.0	5199.990904	-1.749	5199.990622	-1.803	5199.991354	-1.663	5199.991228	-1.687

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5200MHz									
TEMP. (℃)	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	102.0	5199.976285	-4.561	5199.976167	-4.583	5199.976343	-4.549	5199.976659	-4.489
	120.0	5199.975918	-4.654	5199.976157	-4.621	5199.975858	-4.651	5199.976014	-4.613
	138.0	5199.975333	-4.744	5199.975557	-4.701	5199.975822	-4.650	5199.975300	-4.750

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
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Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.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---