FCC TEST REPORT (15.407)

REPORT NO.:	RF140415C27A
MODEL NO.:	PCE4552AH
FCC ID:	QXO-57G45
RECEIVED:	Mar. 07, 2014
TESTED:	Mar. 07 ~ May 30, 2014
ISSUED:	Sep. 03, 2014

APPLICANT:	Extreme Networks, Inc.
ADDRESS:	9 Northeastern Blvd. Salem, New Hampshire, United States, 03079

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47-2, 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.

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140415C27A	Original release	Sep. 03, 2014

1. CERTIFICATION

PRODUCT:	DBDC 3X3 AP
MODEL:	PCE4552AH
BRAND:	Extreme
APPLICANT:	Extreme Networks, Inc.
TESTED:	Mar. 07 ~ May 30, 2014
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 15, Subpart E (Section 15.407)**
	ANSI C63.10-2009

The above equipment (model: PCE4552AH) 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 : _____ **, DATE :** Sep. 03, 2014

Pettie Chen / Senior Specialist

APPROVED BY : _____ **, DATE :** Sep. 03, 2014

Ken Liu / Senior Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 Under New Rule)			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -15.84dB at 15.52344MHz.
15.407(b/1/2/3)(b)(6)	Radiated Emissions& Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.1dB at 700.68MHz.
15.407(a/1/2)	Max Average Transmit Power	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	Antenna connector is N-Type. (The device is professionally installed)

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	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 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	DBDC 3X3 AP
MODEL NO.	PCE4552AH
POWER SUPPLY	4.2Vdc (DC)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK 256QAM for OFDM in 11ac mode only
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 450.0Mbps 802.11ac: up to 1300.0Mbps
OPERATING FREQUENCY	5260 ~ 5320MHz & 5500 ~ 5720MHz
NUMBER OF CHANNEL	5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz), 802.11ac (20MHz) 2 for 802.11n (40MHz), 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 9 for 802.11a, 802.11n (20MHz), 802.11ac (20MHz) 4 for 802.11n (40MHz), 802.11ac (40MHz) 2 for 802.11ac (80MHz)
OUTPUT POWER	5260 ~ 5320MHz: Ant 1: 220.712mW Ant 3: 60.705mW Ant 4: 126.102mW Ant 5: 220.712mW Ant 6: 178.028mW Ant 7: 178.028mW 5500 ~ 5720MHz: Ant 1: 238.549mW Ant 3: 68.847mW Ant 4: 144.868mW Ant 5: 238.549mW Ant 6: 179.694mW Ant 7: 179.694mW
ANTENNA TYPE	Refer to NOTE
ANTENNA CONNECTOR	Refer to NOTE
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report of BV ADT report no.: RF140415C27-1. Difference compared with the original report is adding 5260~5320MHz and 5500~5720MHz band. Therefore, the EUT was re-tested and presented in the test report.

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

MODULATION MODE	TX FUNCTION (Ant. 1, 3, 4, 5, 6, 7)	TX FUNCTION (Ant. 2)
802.11a	3TX	2TX
802.11n (20MHz)	3TX	2TX
802.11n (40MHz)	3TX	2TX
802.11ac (20MHz)	3TX	2TX
802.11ac (40MHz)	3TX	2TX
802.11ac (80MHz)	3TX	2TX

* The modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

3. There are 7 antennas for the EUT.

Item	Model Name	Ant Type	Ant Connector	Gain(dBi)
1	WS-AO-DT05120N	Sector	N-Type	5
2	WS-AO-5D23009N	Panel	N-Type	23
3	WS-AO-DX13025N	Panel	N-Type	11.5
4	WS-AO-DX10055N	Panel	N-Type	8
5	Omni Stubby	Dipole	N-Type	2
6	Senao dipole 5G	Dipole	N-Type	7
7	SuperPass SP-G2HJ2H-6L	Sector	N-Type	7.2

*Only Item 1, 3, 4, 5, 6, 7 were for 5GHz Band 2, 3.

4. All transmissions above 5.725 GHz is under 15.407 (new rules) whenever operating on a channel where the EBW crosses 5.725 GHz.

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

3.2 DESCRIPTION OF TEST MODES

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (20MHz), 802.11ac (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), 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY
58	5290MHz

FOR 5500 ~ 5720MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	132	5660 MHz
104	5520 MHz	136	5680 MHz
108	5540 MHz	140	5700 MHz
112	5560 MHz	144	5720 MHz
116	5580 MHz		

4 channels are provided for 802.11n (40MHz), 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	134	5670 MHz
110	5550 MHz	142	5710 MHz

2 channels are provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	138	5690MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with Antenna 1
B	√	√	√	√	EUT with Antenna 3
C	√	√	√	√	EUT with Antenna 4
D	√	√	√	√	EUT with Antenna 5
E	√	√	√	√	EUT with Antenna 6
F	√	√	√	√	EUT with Antenna 7

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

NOTE: For test mode G, the antenna of EUT had been pre-tested on the positioned of Y axis and Z axis. The worst case was found when positioned on **Y-plane**.

RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B, C, D, E, F	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0
	802.11ac (80MHz)		58	58	OFDM	BPSK	97.5
A, B, C, D, E, F	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	BPSK	7.2
	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	BPSK	15.0
	802.11ac (80MHz)		106, 138	106, 138	OFDM	BPSK	97.5

RADIATED EMISSION TEST (BELOW 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B, C, D, E, F	802.11n (40MHz)	5260-5320, 5500-5720	54 to 62, 102 to 142	54	OFDM	BPSK	15.0

POWER LINE CONDUCTED EMISSION TEST:

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B, C, D, E, F	802.11n (40MHz)	5260-5320, 5500-5720	54 to 62, 102 to 142	54	OFDM	BPSK	15.0

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B, C, D, E, F	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
	802.11n (40MHz)		54 to 62	54, 62	OFDM	BPSK	15.0
	802.11ac (80MHz)		58	58	OFDM	BPSK	97.5
A, B, C, D, E, F	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6.0
	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	BPSK	7.2
	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	BPSK	15.0
	802.11ac (80MHz)		106, 138	106, 138	OFDM	BPSK	97.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Jones Chang Chris Lin Ted Chang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Jones Chang Chris Lin
PLC	25deg. C, 68%RH	120Vac, 60Hz	Sun Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Nick Chen

3.3 DUTY CYCLE OF TEST SIGNAL

TEST MODE A

MODULATION TYPE: BPSK

Duty cycle of test signal is < 98 %, duty factor is required

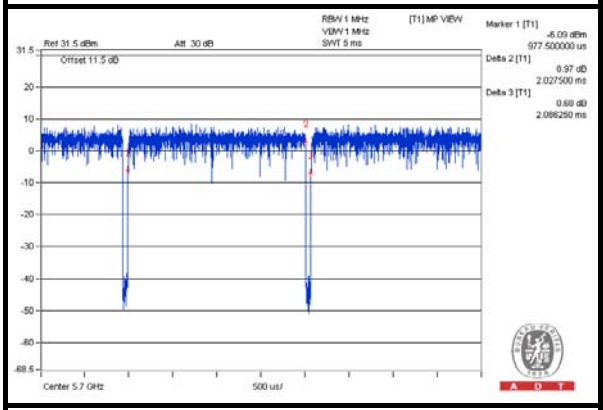
802.11a: Duty cycle = 2.028/2.086 = 0.972, Duty factor = 10 * log(1/0.972) = 0.12

802.11n (20MHz): Duty cycle = 1.8875/1.945 = 0.97, Duty factor = 10 * log(1/0.97) = 0.13

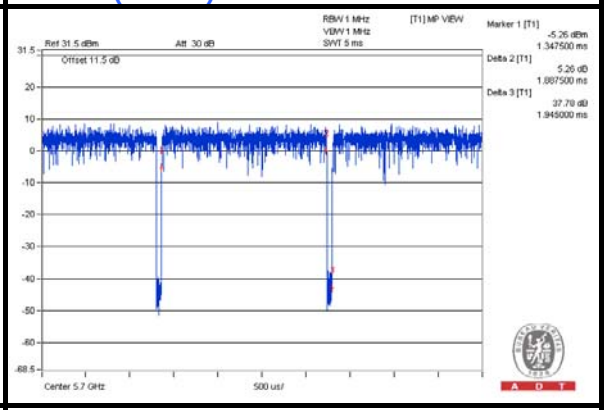
802.11n (40MHz): Duty cycle = 0.9275/0.98625 = 0.94, Duty factor = 10 * log(1/0.94) = 0.27

802.11ac (80MHz): Duty cycle = 0.456/0.512 = 0.891, Duty factor = 10 * log(1/0.891) = 0.50

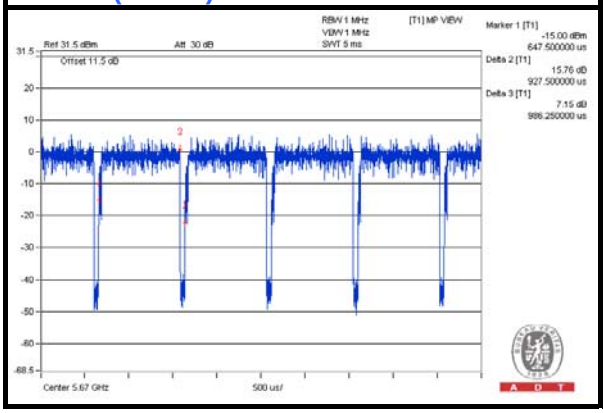
802.11a



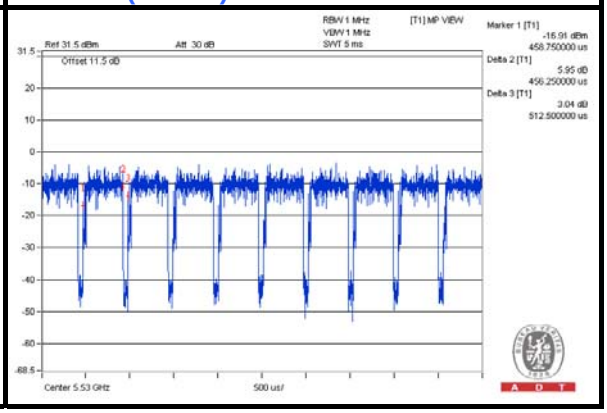
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: QPSK

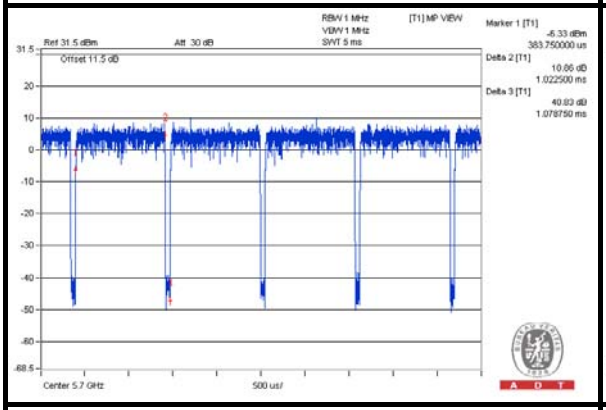
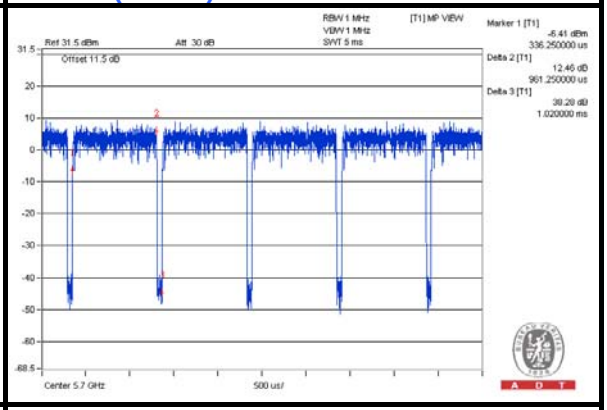
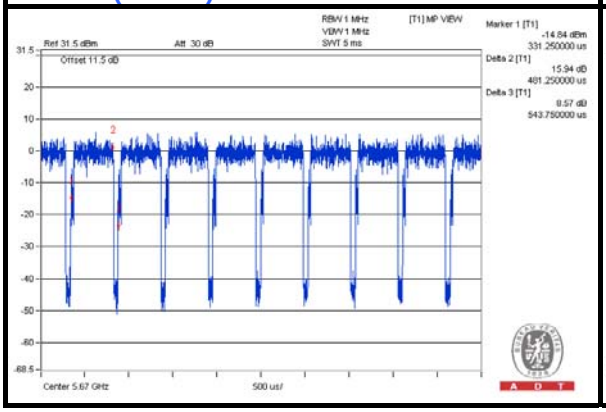
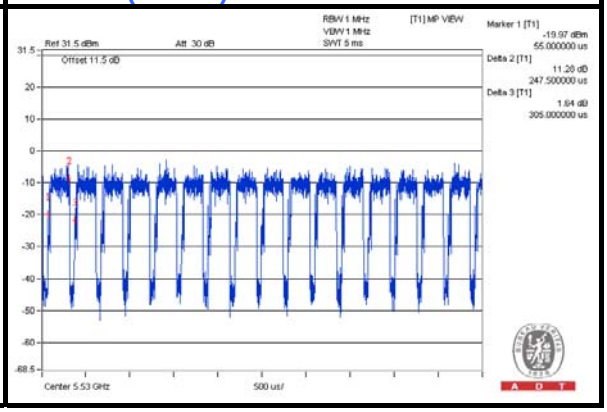
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 1.0225/1.07875 = 0.947, Duty factor = 10 * log(1/0.947) = 0.24

802.11n (20MHz): Duty cycle = 0.961/1.02 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

802.11n (40MHz): Duty cycle = 0.48125/0.54375 = 0.884, Duty factor = 10 * log(1/0.884) = 0.53

802.11ac (80MHz): Duty cycle = 0.248/0.305 = 0.813, Duty factor = 10 * log(1/0.813) = 0.90

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: 16QAM

Duty cycle of test signal is < 98 %, duty factor is required

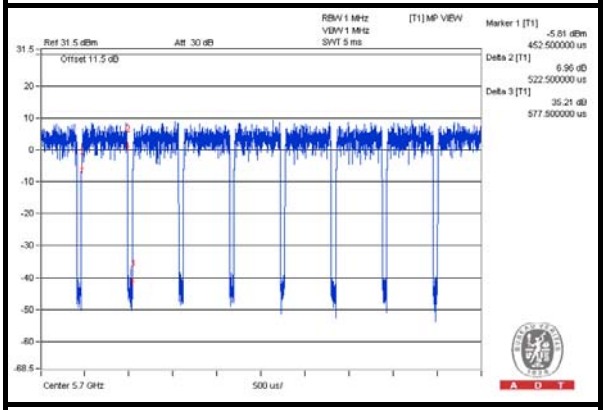
802.11a: Duty cycle = 0.522/0.5775 = 0.905, Duty factor = 10 * log(1/0.905) = 0.44

802.11n (20MHz): Duty cycle = 0.499/0.556 = 0.897, Duty factor = 10 * log(1/0.897) = 0.47

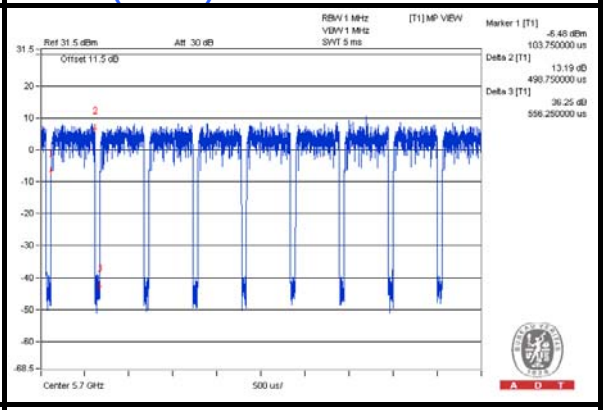
802.11n (40MHz): Duty cycle = 0.25875/0.321 = 0.807, Duty factor = 10 * log(1/0.807) = 0.93

802.11ac (80MHz): Duty cycle = 0.144/0.201 = 0.716, Duty factor = 10 * log(1/0.716) = 1.43

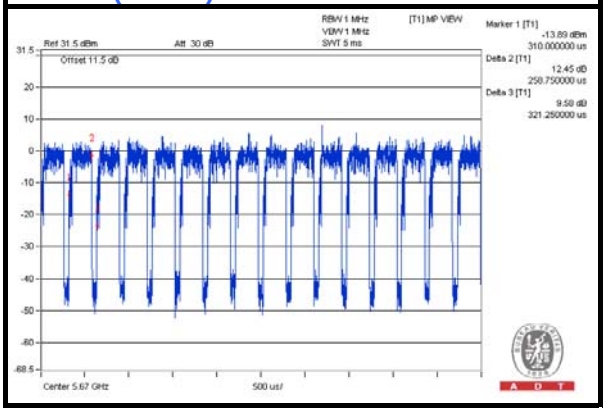
802.11a



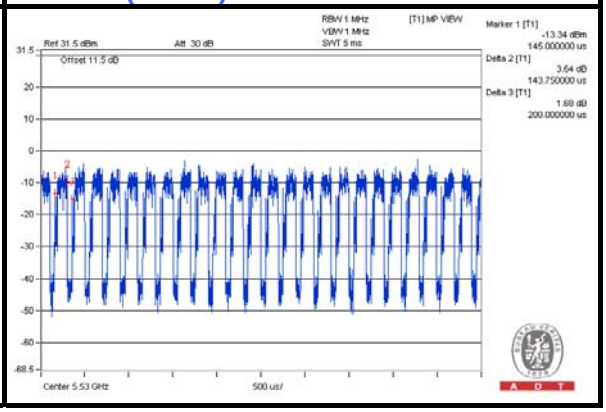
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 64QAM

Duty cycle of test signal is < 98 %, duty factor is required

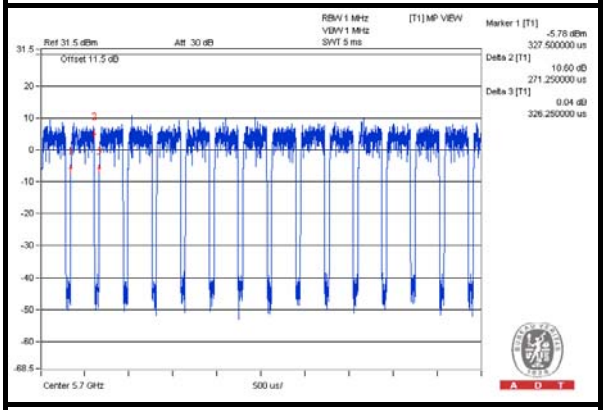
802.11a: Duty cycle = 0.27125/0.32625 = 0.831, Duty factor = 10 * log(1/0.831) = 0.80

802.11n (20MHz): Duty cycle = 0.266/0.324 = 0.821, Duty factor = 10 * log(1/0.821) = 0.86

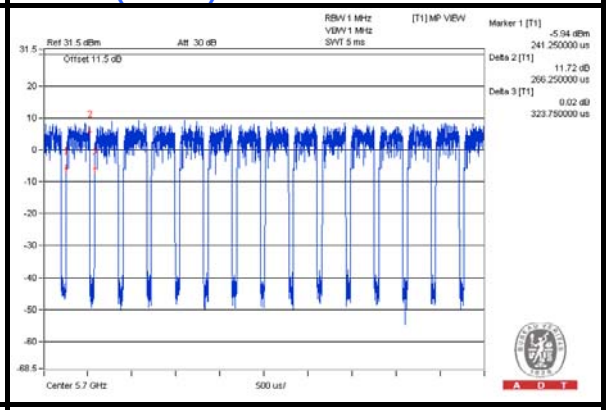
802.11n (40MHz): Duty cycle = 0.148/0.206 = 0.718, Duty factor = 10 * log(1/0.718) = 1.44

802.11ac (80MHz): Duty cycle = 0.09/0.148 = 0.608, Duty factor = 10 * log(1/0.608) = 2.16

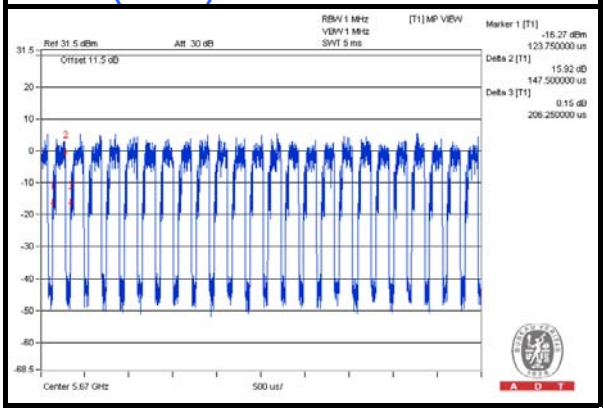
802.11a



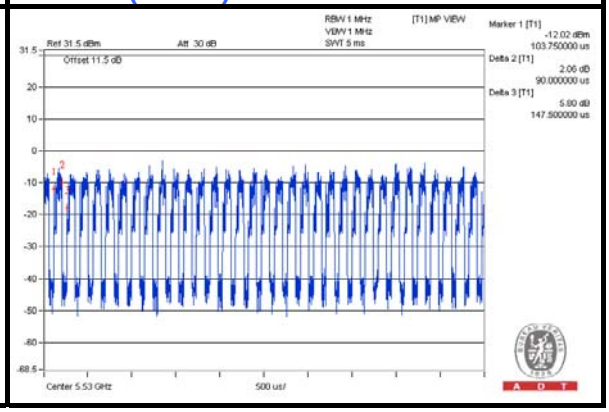
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

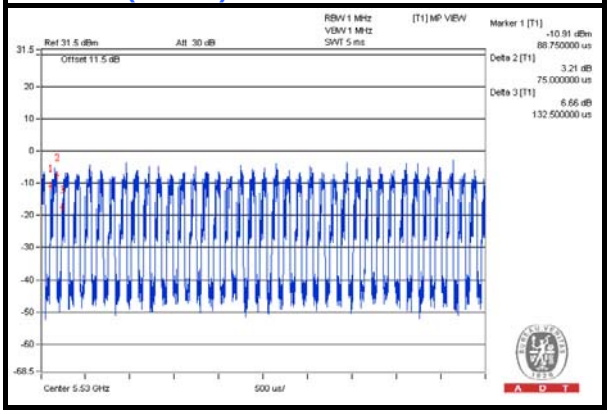


MODULATION TYPE: 256QAM

Duty cycle of test signal is < 98 %, duty factor is required

802.11ac (80MHz): Duty cycle = 0.075/0.133 = 0.564, Duty factor = 10 * log(1/0.564) = 2.49

802.11ac (80MHz)



Duty cycle of test signal is < 98 %, duty factor is required

802.11a CH 144:

Duty cycle = 2.028/2.086 = 0.968, Duty factor = 10 * log(1/0.968) = 0.14

802.11n (20MHz) CH 144:

Duty cycle = 1.886/1.944 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

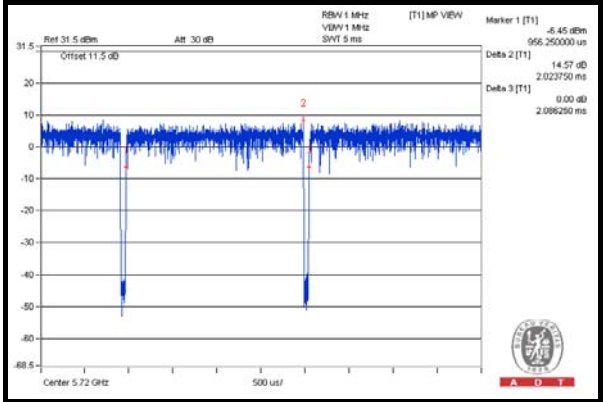
802.11n (40MHz) CH 142:

Duty cycle = 0.928/0.986 = 0.940, Duty factor = 10 * log(1/0.940) = 0.27

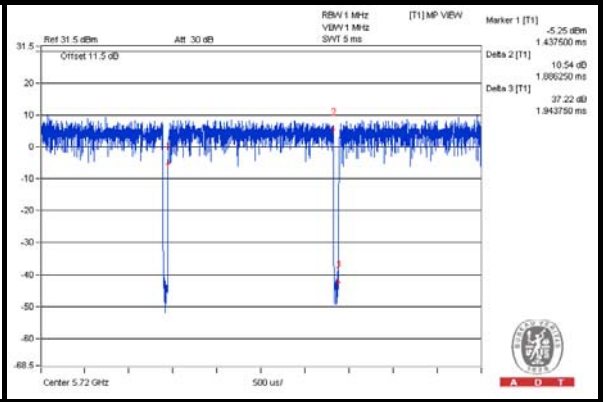
802.11ac (80MHz) CH 138:

Duty cycle = 0.455/0.516 = 0.883, Duty factor = 10 * log(1/0.883) = 0.54

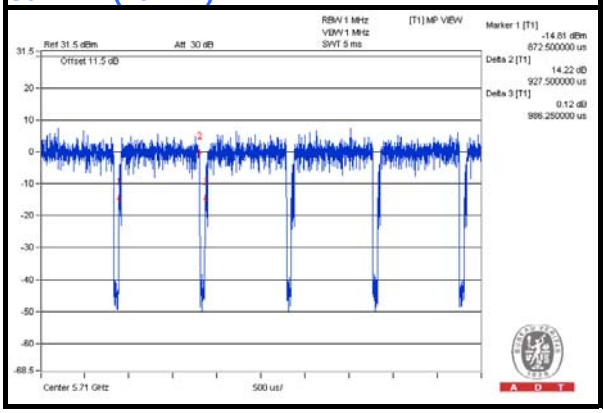
802.11a



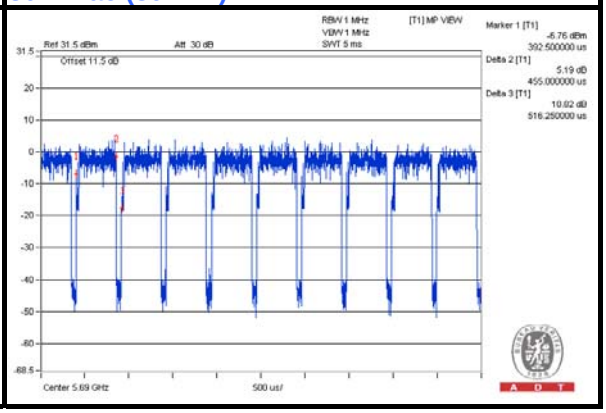
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE B

MODULATION TYPE: BPSK

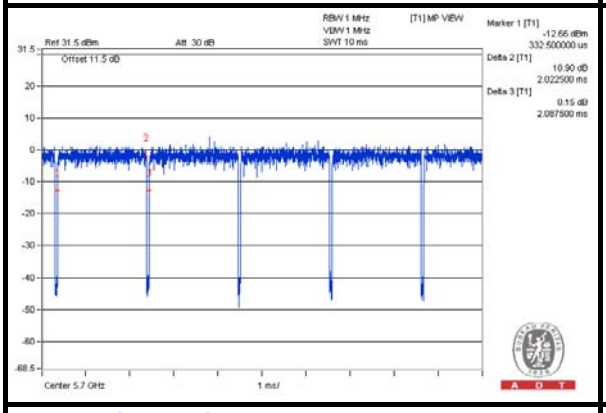
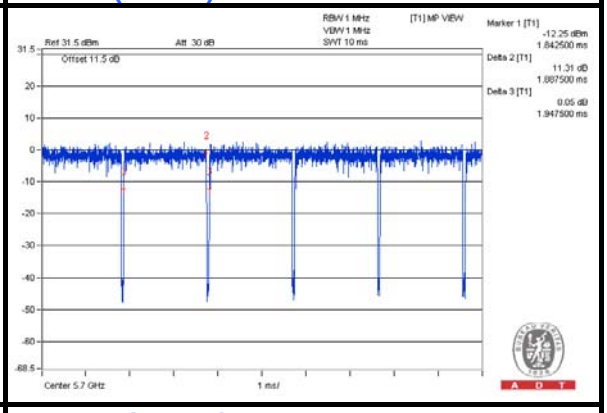
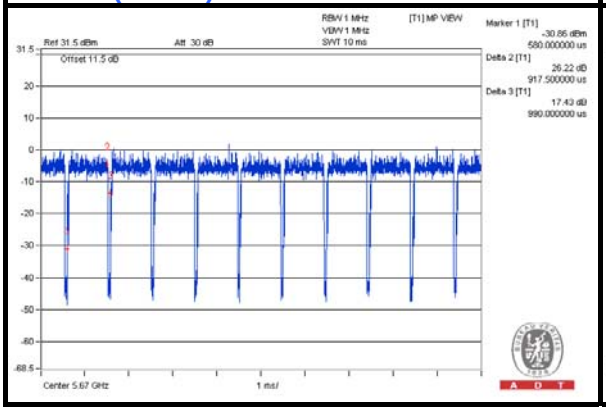
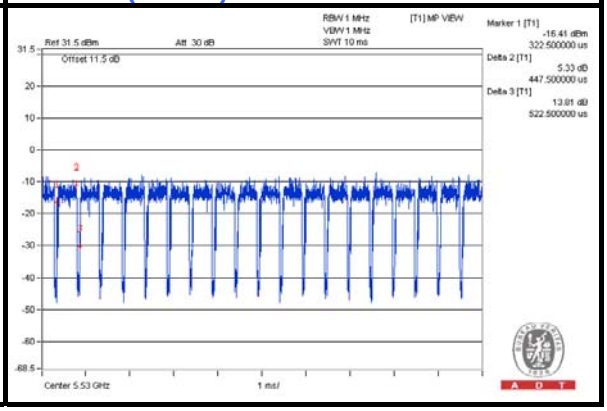
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 2.022/2.087 = 0.969, Duty factor = 10 * log(1/0.969) = 0.14

802.11n (20MHz): Duty cycle = 1.887/1.947 = 0.969, Duty factor = 10 * log(1/0.969) = 0.14

802.11n (40MHz): Duty cycle = 0.917/0.99 = 0.926, Duty factor = 10 * log(1/0.926) = 0.33

802.11ac (80MHz): Duty cycle = 0.448/0.523 = 0.857, Duty factor = 10 * log(1/0.857) = 0.67

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: QPSK

Duty cycle of test signal is < 98 %, duty factor is required

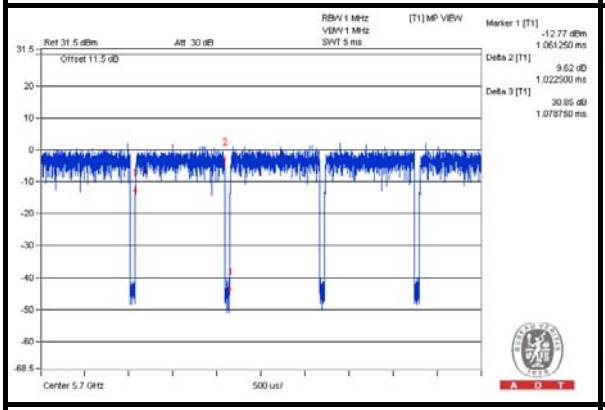
802.11a: Duty cycle = 1.022/1.079 = 0.947, Duty factor = 10 * log(1/0.947) = 0.24

802.11n (20MHz): Duty cycle = 0.964/1.025 = 0.94, Duty factor = 10 * log(1/0.94) = 0.27

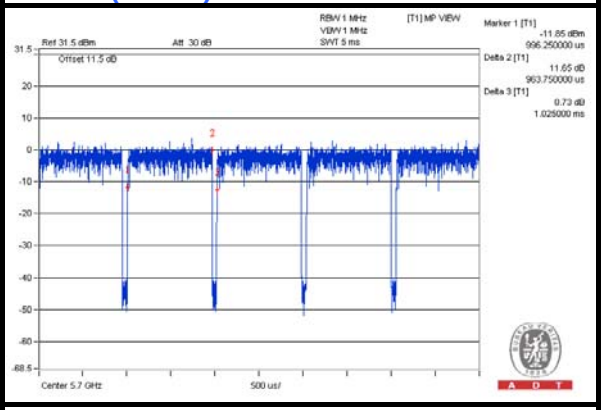
802.11n (40MHz): Duty cycle = 0.484/0.547 = 0.885, Duty factor = 10 * log(1/0.885) = 0.53

802.11ac (80MHz): Duty cycle = 0.245/0.304 = 0.806, Duty factor = 10 * log(1/0.806) = 0.94

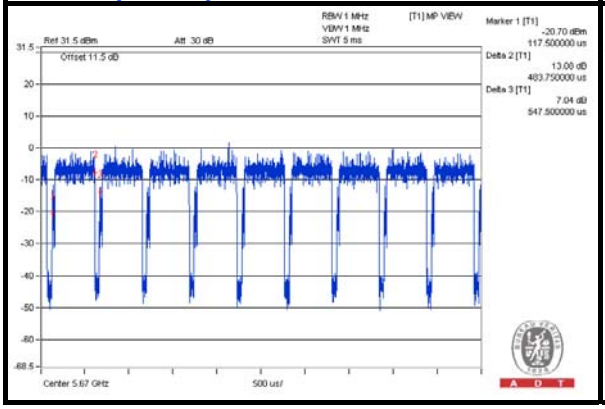
802.11a



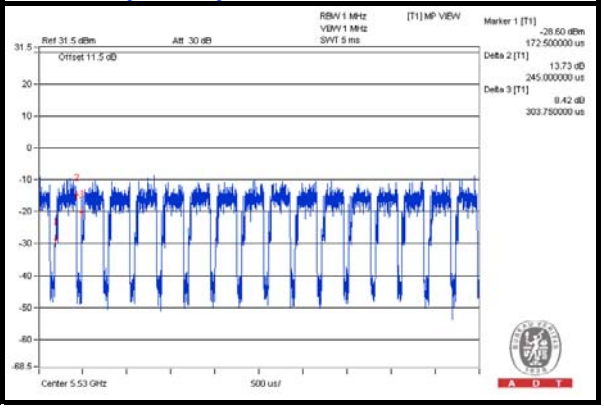
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 16QAM

Duty cycle of test signal is < 98 %, duty factor is required

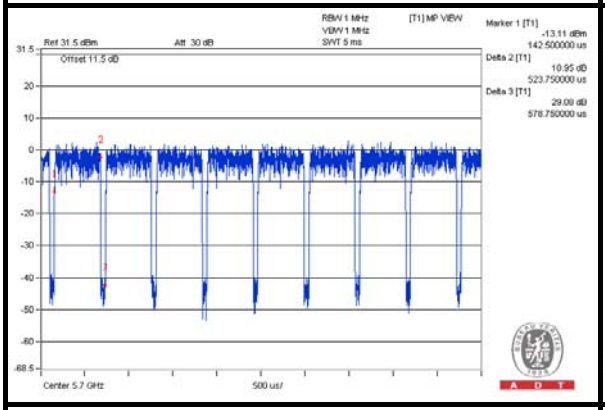
802.11a: Duty cycle = 0.524/0.579 = 0.905, Duty factor = 10 * log(1/0.905) = 0.43

802.11n (20MHz): Duty cycle = 0.499/0.556 = 0.897, Duty factor = 10 * log(1/0.897) = 0.47

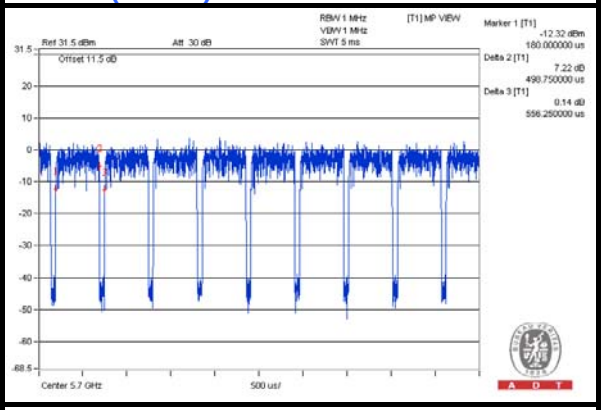
802.11n (40MHz): Duty cycle = 0.26/0.321 = 0.81, Duty factor = 10 * log(1/0.81) = 0.92

802.11ac (80MHz): Duty cycle = 0.143/0.203 = 0.704, Duty factor = 10 * log(1/0.704) = 1.52

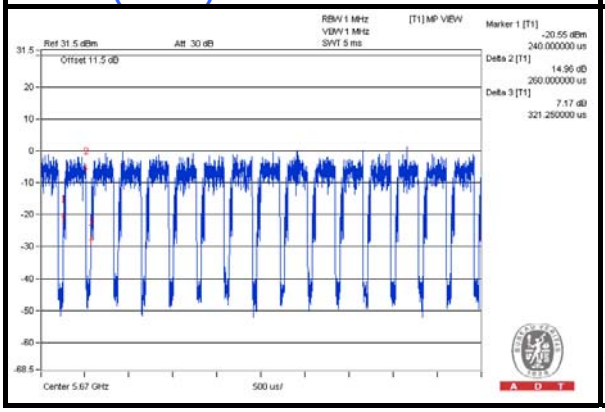
802.11a



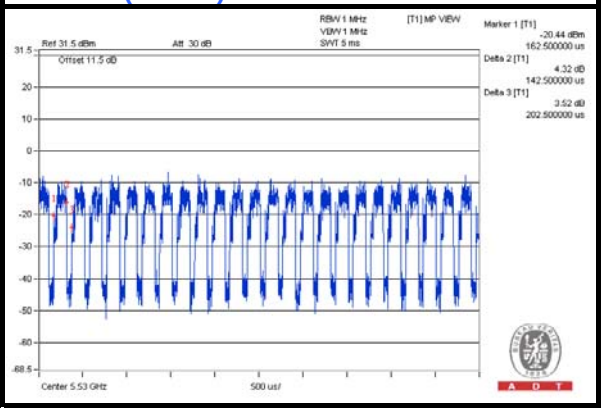
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 64QAM

Duty cycle of test signal is < 98 %, duty factor is required

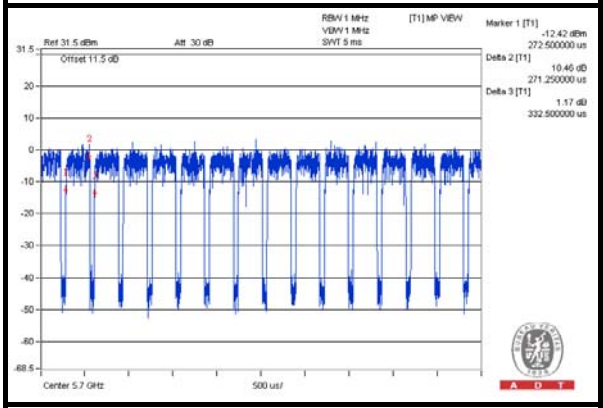
802.11a: Duty cycle = 0.271/0.332 =0.816, Duty factor = 10 * log(1/0.816) = 0.88

802.11n (20MHz): Duty cycle = 0.269/0.329 = 0.818, Duty factor = 10 * log(1/0.818) = 0.87

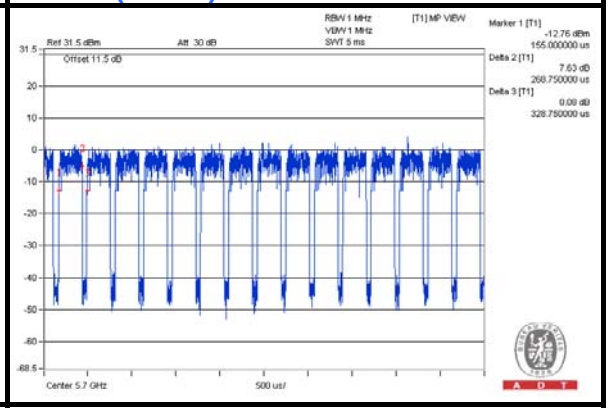
802.11n (40MHz): Duty cycle = 0.146/0.204 = 0.716, Duty factor = 10 * log(1/0.716) = 1.45

802.11ac (80MHz): Duty cycle = 0.093/0.151 = 0.616, Duty factor = 10 * log(1/0.616) = 2.10

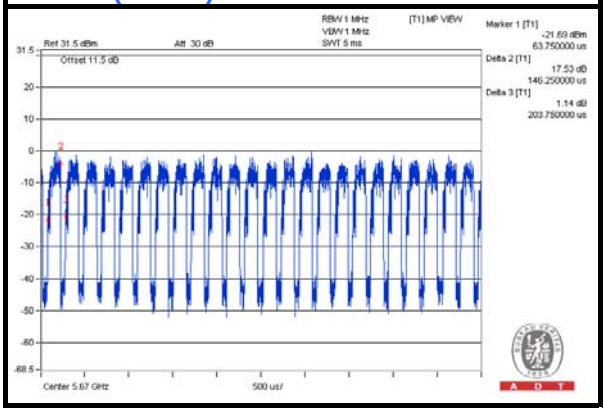
802.11a



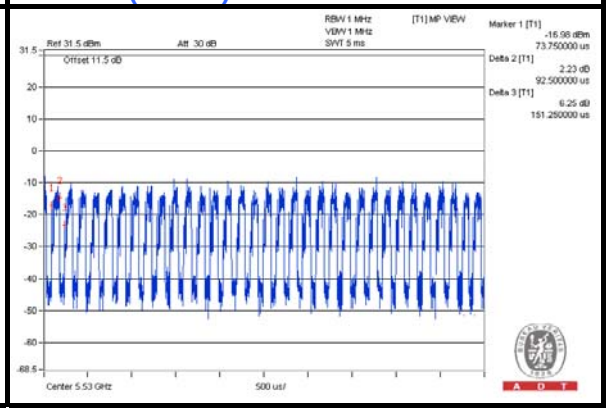
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

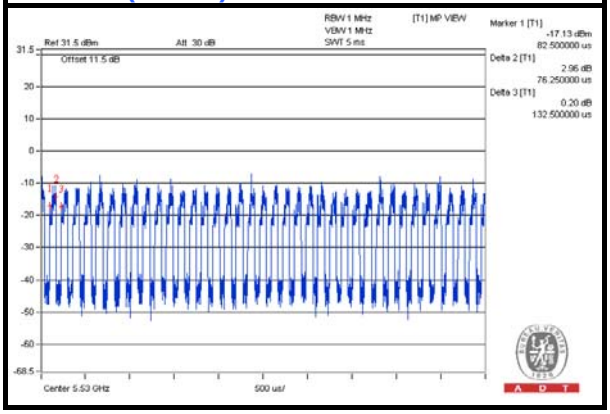


MODULATION TYPE: 256QAM

Duty cycle of test signal is < 98 %, duty factor is required

802.11ac (80MHz): Duty cycle = 0.076/0.133 = 0.571, Duty factor = 10 * log(1/0.571) = 2.43

802.11ac (80MHz)



Duty cycle of test signal is < 98 %, duty factor is required

802.11a CH 144:

Duty cycle = 2.027/2.086 = 0.972, Duty factor = 10 * log(1/0.972) = 0.12

802.11n (20MHz) CH 144:

Duty cycle = 1.888/1.944 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

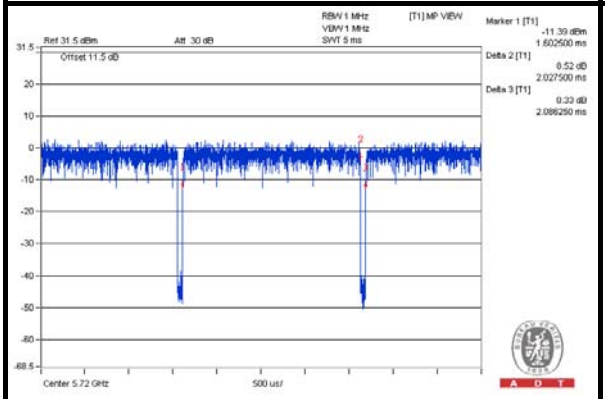
802.11n (40MHz) CH 142:

Duty cycle = 0.925/0.987 = 0.937, Duty factor = 10 * log(1/0.937) = 0.28

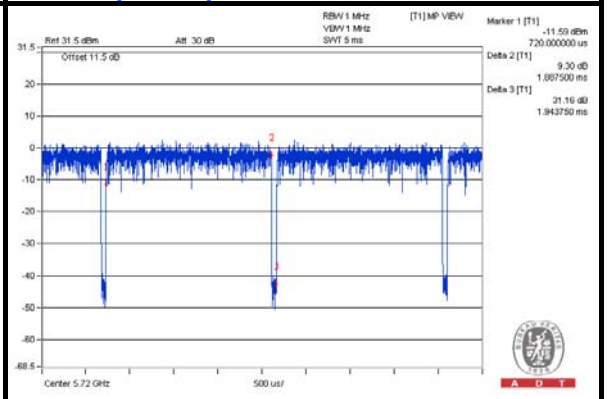
802.11ac (80MHz) CH 138:

Duty cycle = 0.455/0.521 = 0.873, Duty factor = 10 * log(1/0.873) = 0.59

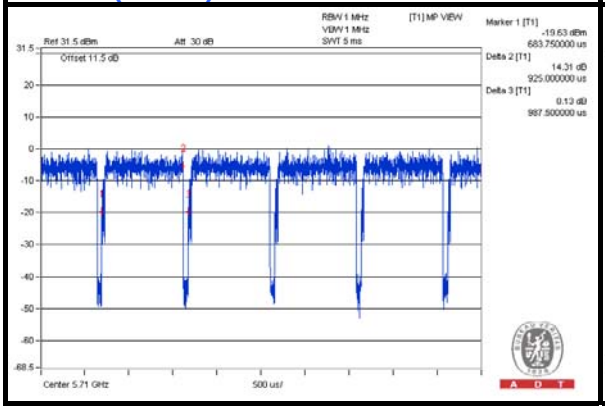
802.11a



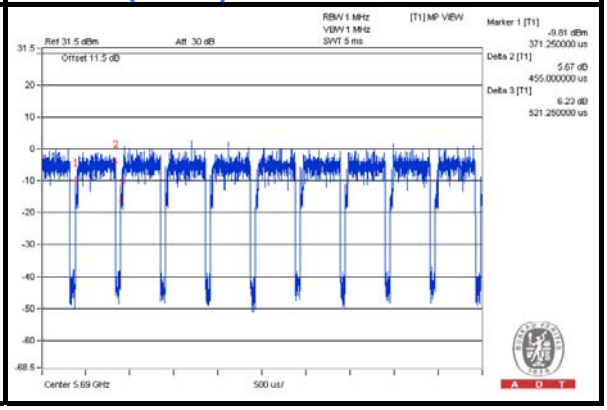
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE C

MODULATION TYPE: BPSK

Duty cycle of test signal is < 98 %, duty factor is required

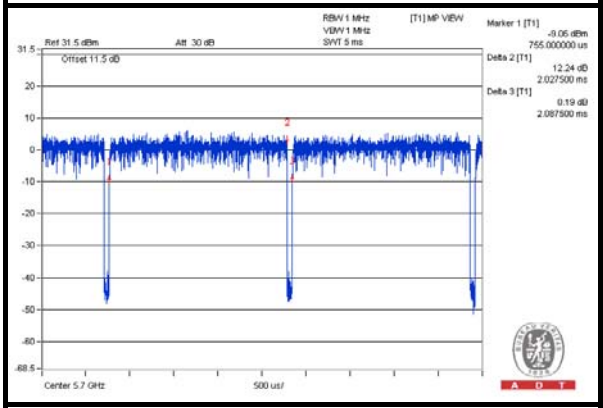
802.11a: Duty cycle = 2.027/2.087 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

802.11n (20MHz): Duty cycle = 1.886/1.945 = 0.97, Duty factor = 10 * log(1/0.97) = 0.13

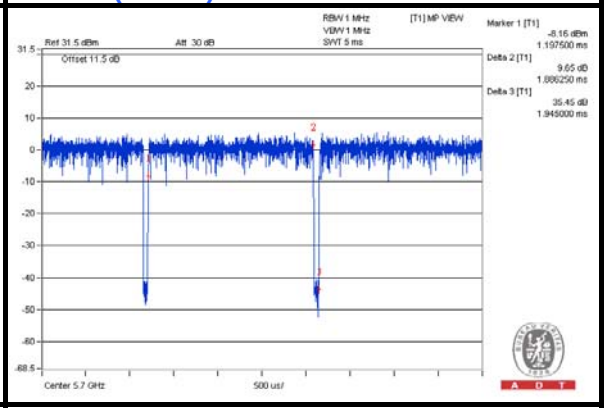
802.11n (40MHz): Duty cycle = 0.926/0.988 = 0.938, Duty factor = 10 * log(1/0.938) = 0.28

802.11ac (80MHz): Duty cycle = 0.455/0.511 = 0.89, Duty factor = 10 * log(1/0.89) = 0.50

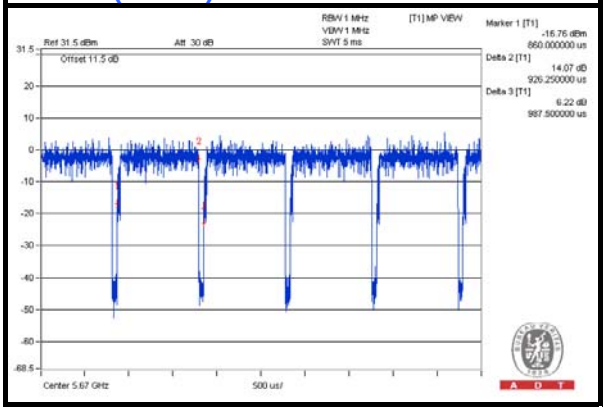
802.11a



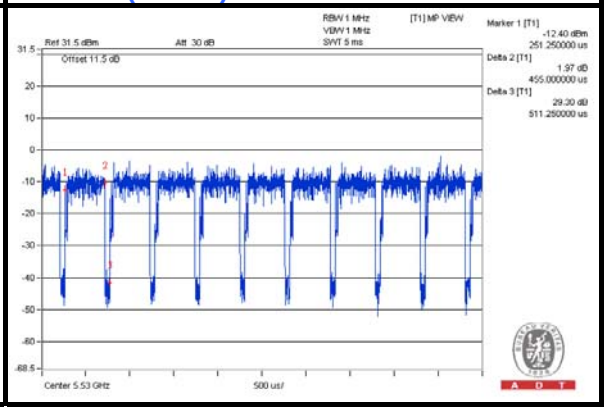
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: QPSK

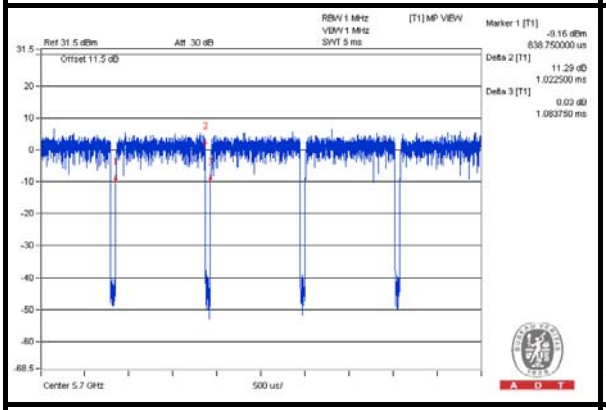
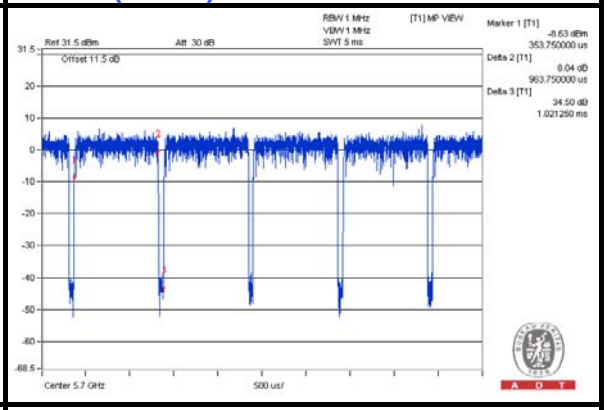
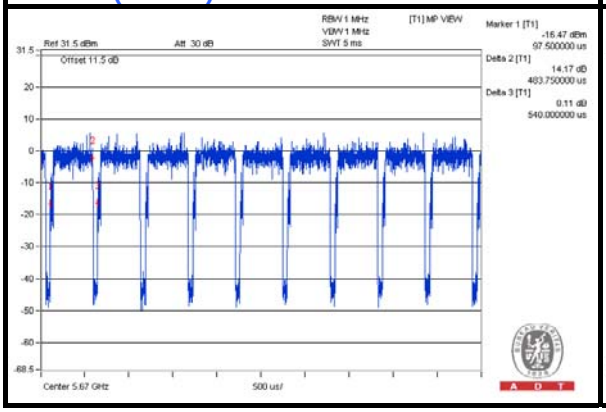
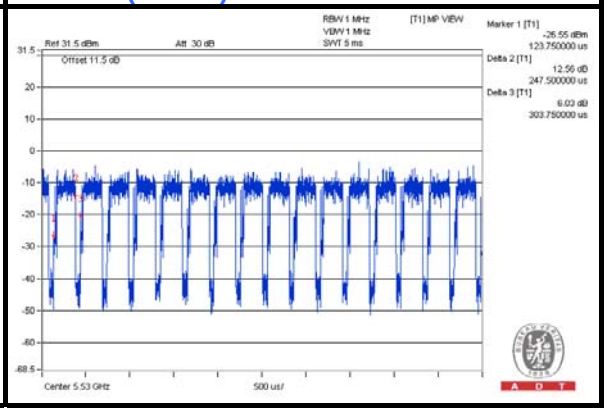
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 1.023/1.084 = 0.943, Duty factor = 10 * log(1/0.943) = 0.26

802.11n (20MHz): Duty cycle = 0.964/1.021 = 0.944, Duty factor = 10 * log(1/0.944) = 0.25

802.11n (40MHz): Duty cycle = 0.484/0.540 = 0.896, Duty factor = 10 * log(1/0.896) = 0.48

802.11ac (80MHz): Duty cycle = 0.248/0.304 = 0.816, Duty factor = 10 * log(1/0.816) = 0.88

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: 16QAM

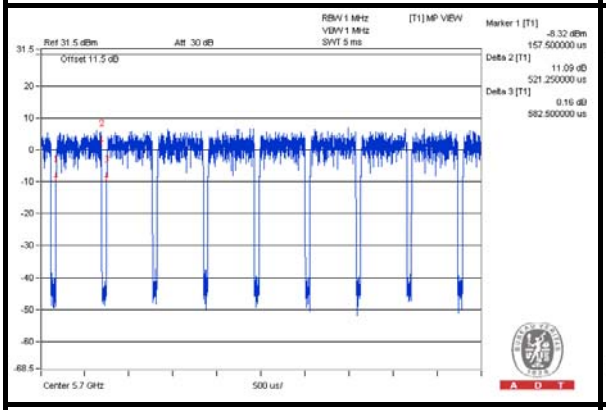
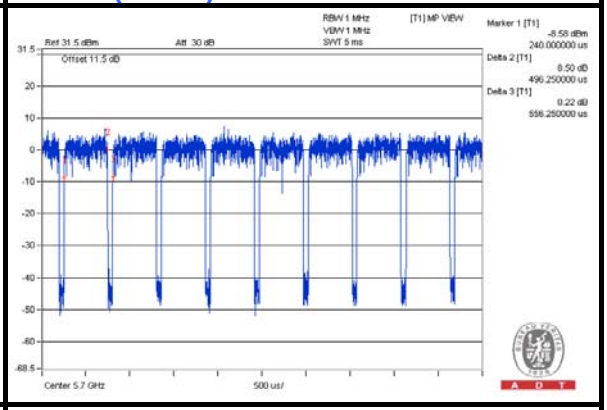
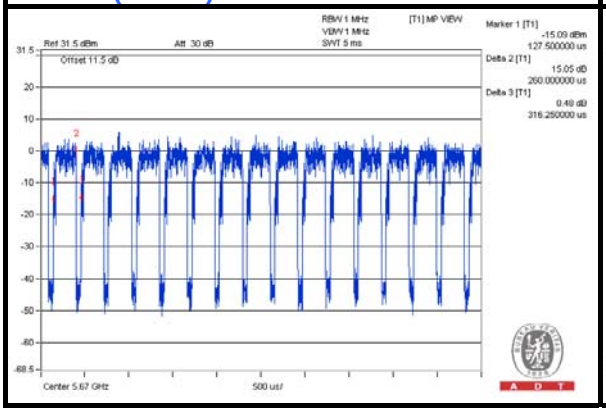
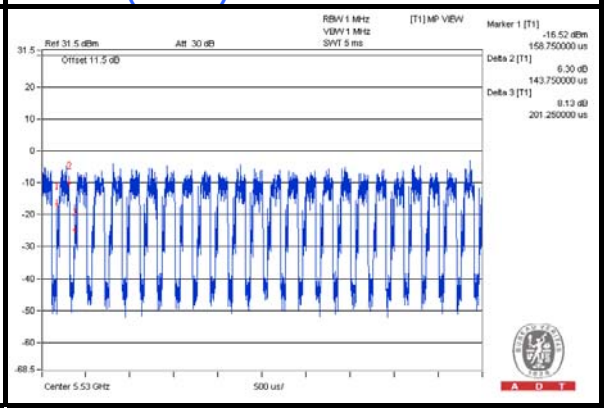
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 0.521/0.583 =0.895, Duty factor = 10 * log(1/0.895) = 0.48

802.11n (20MHz): Duty cycle = 0.496/0.556 = 0.892, Duty factor = 10 * log(1/0.892) = 0.50

802.11n (40MHz): Duty cycle = 0.26/0.316 = 0.823, Duty factor = 10 * log(1/0.823) = 0.85

802.11ac (80MHz): Duty cycle = 0.144/0.201 = 0.716, Duty factor = 10 * log(1/0.716) = 1.45

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: 64QAM

Duty cycle of test signal is < 98 %, duty factor is required

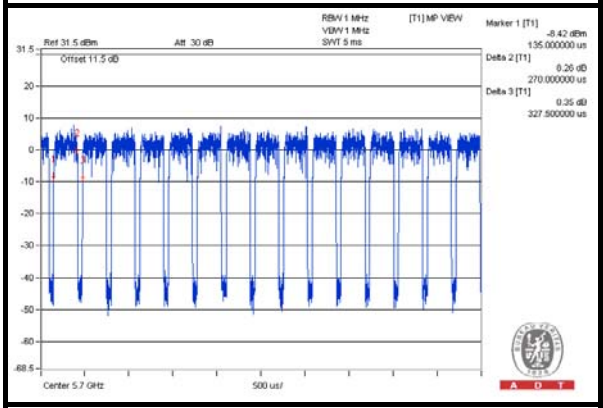
802.11a: Duty cycle = 0.270/0.328 =0.823, Duty factor = 10 * log(1/0.823) = 0.85

802.11n (20MHz): Duty cycle = 0.268/0.324 = 0.827, Duty factor = 10 * log(1/0.827) = 0.82

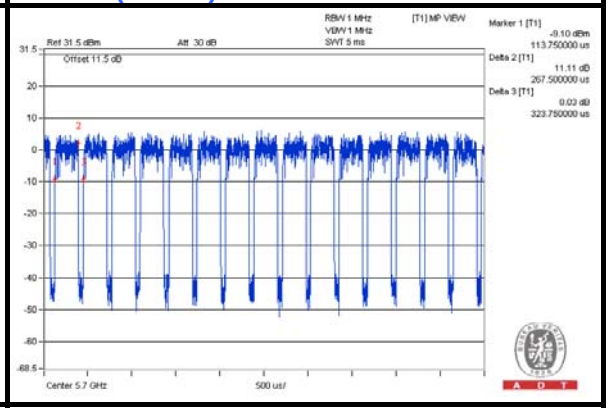
802.11n (40MHz): Duty cycle = 0.146/0.205 = 0.712, Duty factor = 10 * log(1/0.712) = 1.47

802.11ac (80MHz): Duty cycle = 0.093/0.149 = 0.624, Duty factor = 10 * log(1/0.624) = 2.05

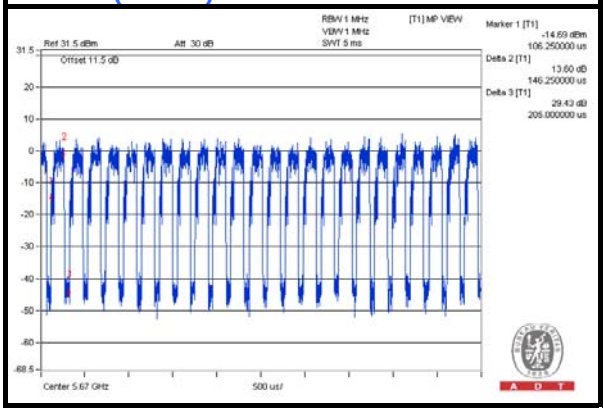
802.11a



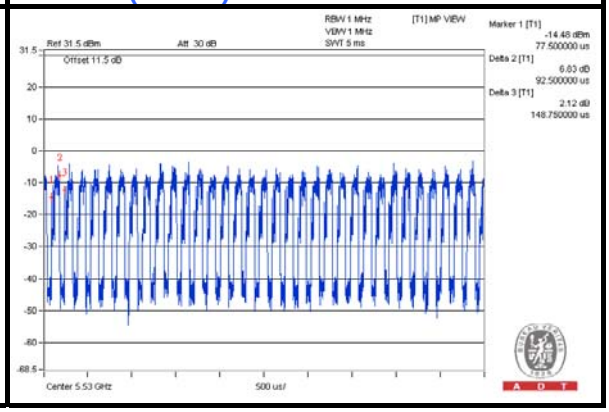
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

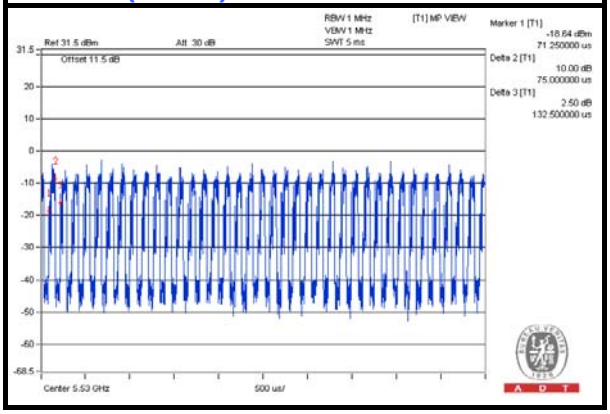


MODULATION TYPE: 256QAM

Duty cycle of test signal is < 98 %, duty factor is required

802.11ac (80MHz): Duty cycle = 0.075/0.133 = 0.564, Duty factor = 10 * log(1/0.564) = 2.49

802.11ac (80MHz)



Duty cycle of test signal is < 98 %, duty factor is required

802.11a CH 144:

Duty cycle = 2.023/2.085 = 0.967, Duty factor = 10 * log(1/0.967) = 0.14

802.11n (20MHz) CH 144:

Duty cycle = 1.888/1.948 = 0.968, Duty factor = 10 * log(1/0.968) = 0.14

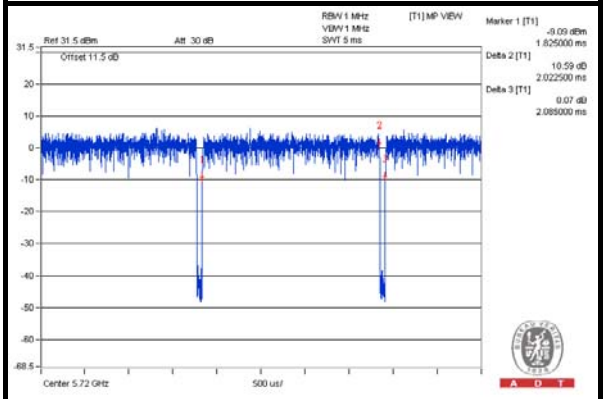
802.11n (40MHz) CH 142:

Duty cycle = 0.928/0.988 = 0.938, Duty factor = 10 * log(1/0.938) = 0.28

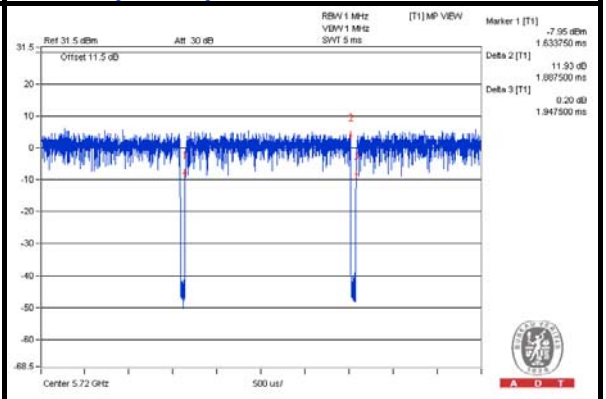
802.11ac (80MHz) CH 138:

Duty cycle = 0.455/0.513 = 0.889, Duty factor = 10 * log(1/0.889) = 0.51

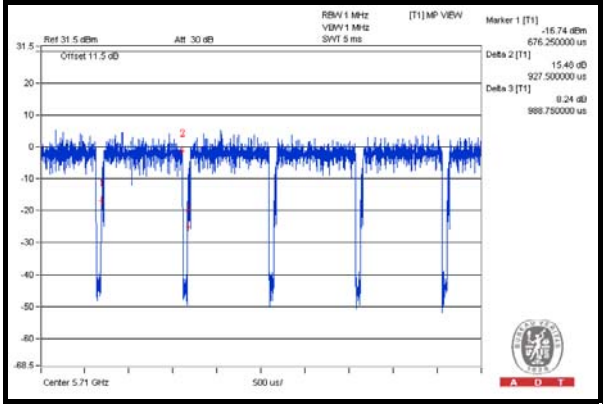
802.11a



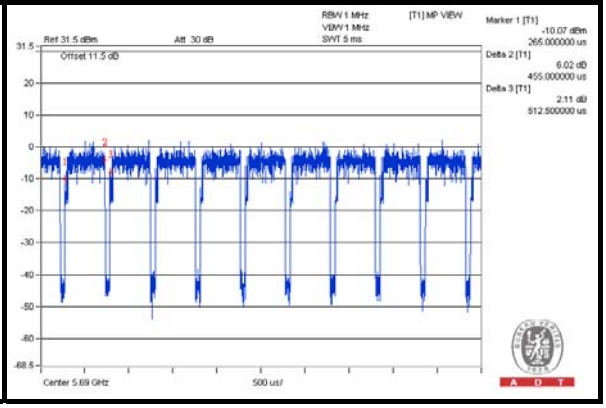
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE D

MODULATION TYPE: BPSK

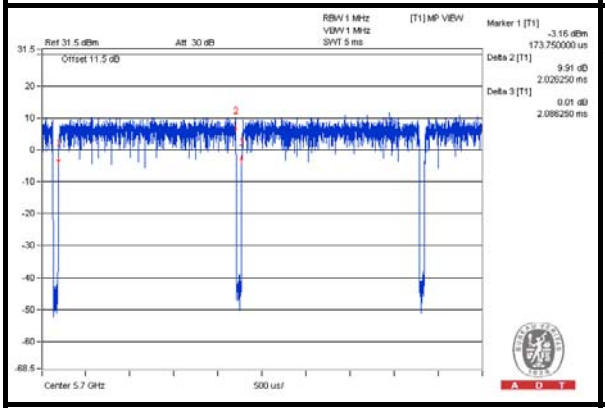
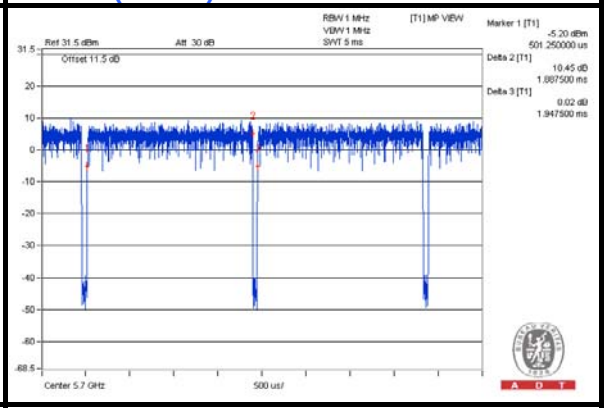
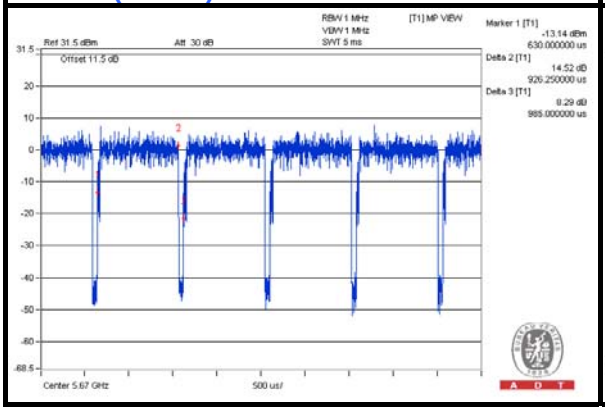
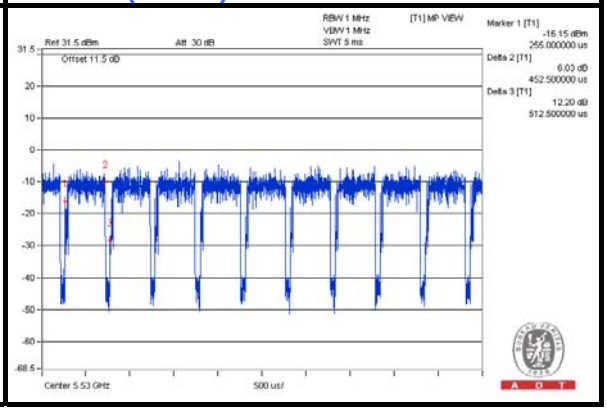
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 2.026/2.086 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

802.11n (20MHz): Duty cycle = 1.888/1.948 = 0.969, Duty factor = 10 * log(1/0.969) = 0.14

802.11n (40MHz): Duty cycle = 0.926/0.985 = 0.94, Duty factor = 10 * log(1/0.94) = 0.27

802.11ac (80MHz): Duty cycle = 0.453/0.513 = 0.883, Duty factor = 10 * log(1/0.883) = 0.54

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: QPSK

Duty cycle of test signal is < 98 %, duty factor is required

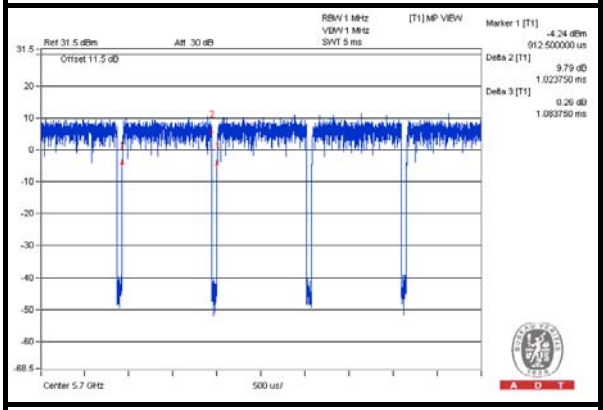
802.11a: Duty cycle = 1.024/1.084 = 0.945, Duty factor = 10 * log(1/0.945) = 0.25

802.11n (20MHz): Duty cycle = 0.962/1.024 = 0.939, Duty factor = 10 * log(1/0.939) = 0.27

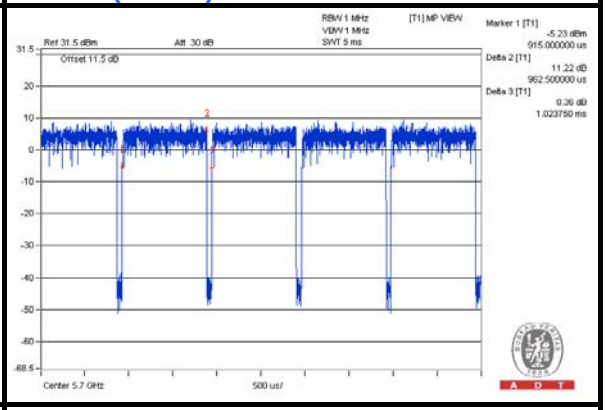
802.11n (40MHz): Duty cycle = 0.483/0.540 = 0.893, Duty factor = 10 * log(1/0.893) = 0.49

802.11ac (80MHz): Duty cycle = 0.246/0.304 = 0.809, Duty factor = 10 * log(1/0.809) = 0.92

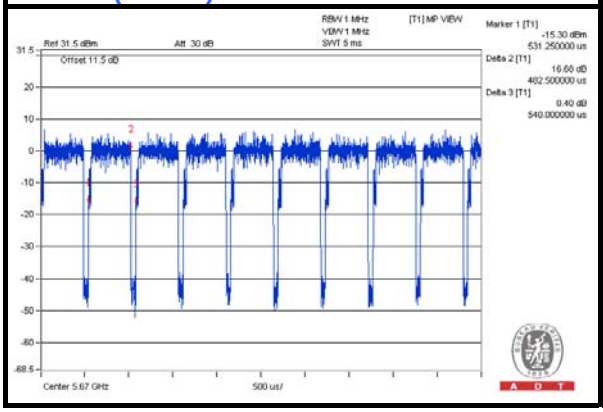
802.11a



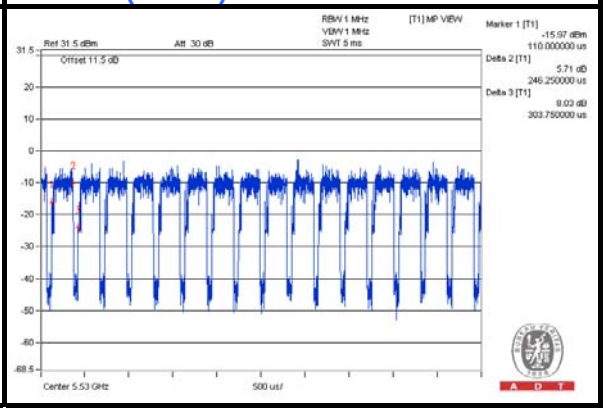
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 16QAM

Duty cycle of test signal is < 98 %, duty factor is required

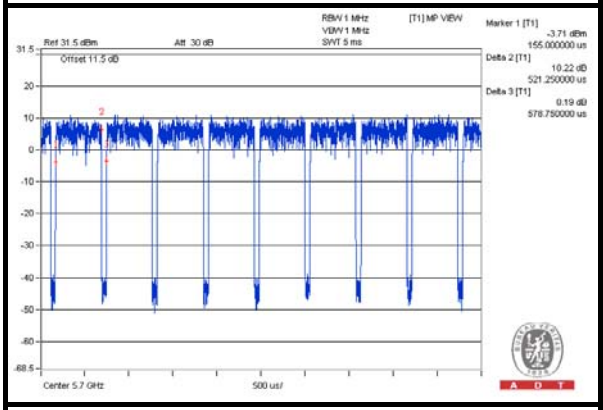
802.11a: Duty cycle = 0.521/0.579 =0.900, Duty factor = 10 * log(1/0.900) = 0.46

802.11n (20MHz): Duty cycle = 0.498/0.560 = 0.888, Duty factor = 10 * log(1/0.888) = 0.52

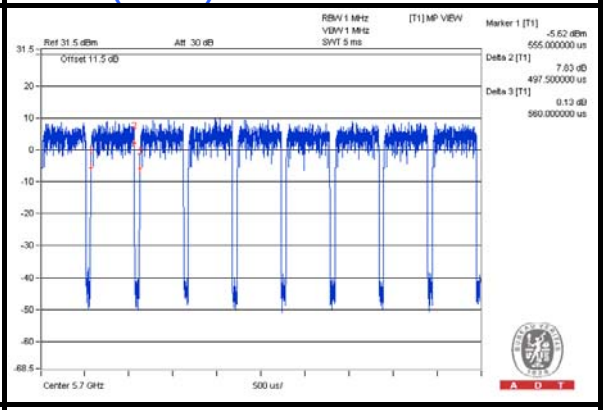
802.11n (40MHz): Duty cycle = 0.259/0.319 = 0.812, Duty factor = 10 * log(1/0.812) = 0.90

802.11ac (80MHz): Duty cycle = 0.143/0.200 = 0.715, Duty factor = 10 * log(1/0.715) = 1.46

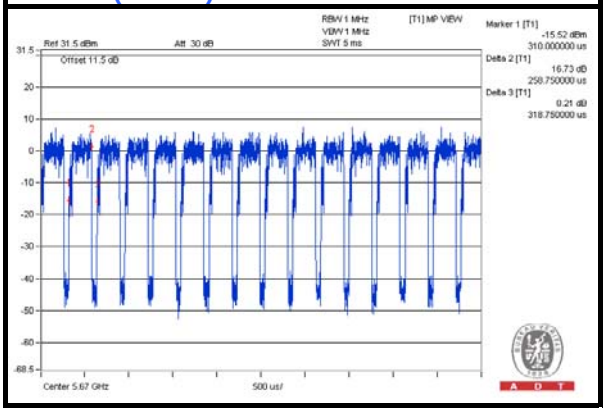
802.11a



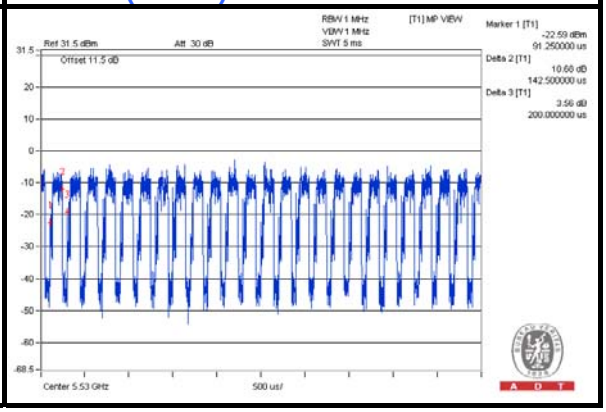
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 64QAM

Duty cycle of test signal is < 98 %, duty factor is required

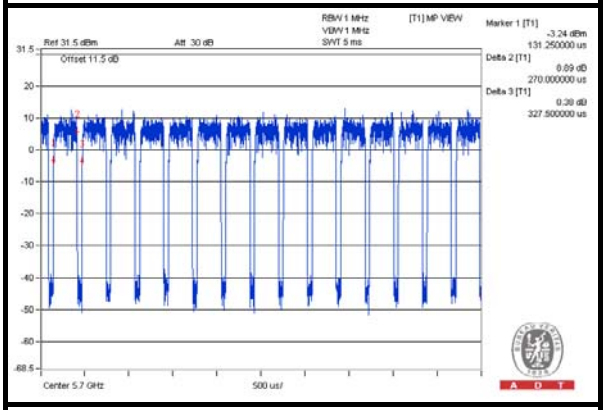
802.11a: Duty cycle = 0.270/0.328 =0.823, Duty factor = 10 * log(1/0.823) = 0.85

802.11n (20MHz): Duty cycle = 0.268/0.324 = 0.824, Duty factor = 10 * log(1/0.824) = 0.84

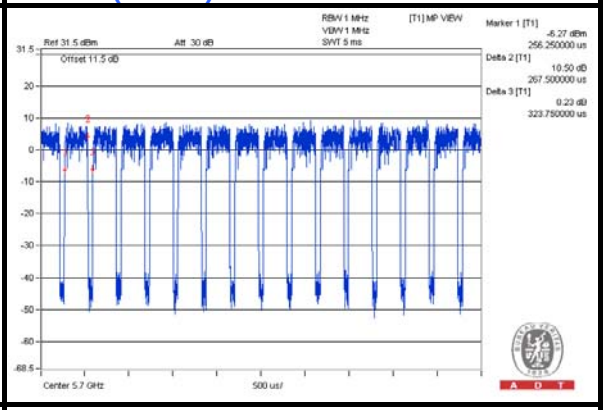
802.11n (40MHz): Duty cycle = 0.143/0.205 = 0.698, Duty factor = 10 * log(1/0.698) = 1.56

802.11ac (80MHz): Duty cycle = 0.091/0.146 = 0.623, Duty factor = 10 * log(1/0.623) = 2.05

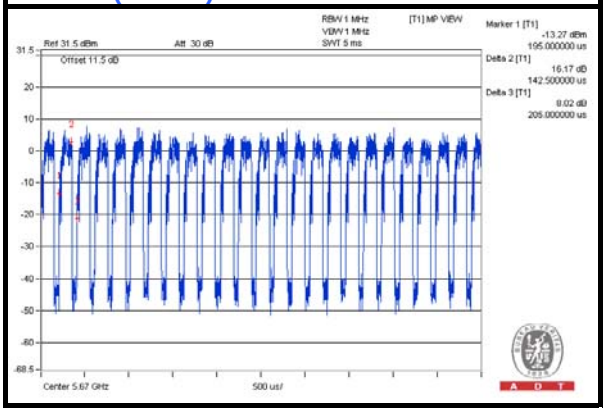
802.11a



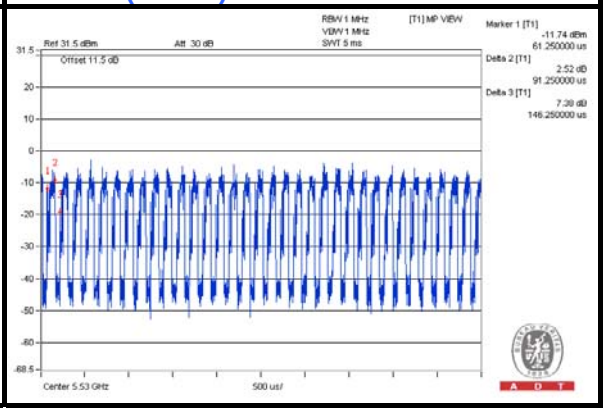
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

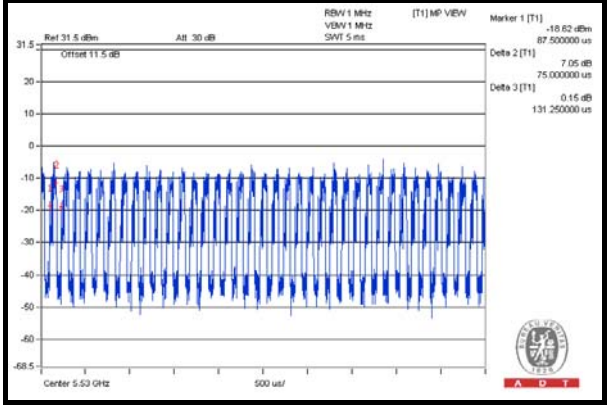


MODULATION TYPE: 256QAM

Duty cycle of test signal is < 98 %, duty factor is required

802.11ac (80MHz): Duty cycle = 0.075/0.131 = 0.573, Duty factor = 10 * log(1/0.573) = 2.42

802.11ac (80MHz)



Duty cycle of test signal is < 98 %, duty factor is required

802.11a CH 144:

Duty cycle = 2.026/2.088 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

802.11n (20MHz) CH 144:

Duty cycle = 1.888/1.945 = 0.970, Duty factor = 10 * log(1/0.970) = 0.13

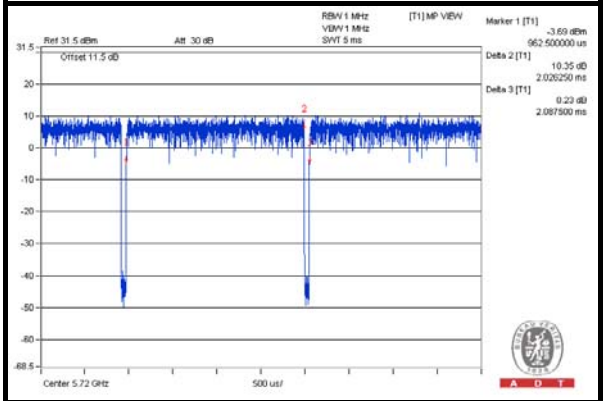
802.11n (40MHz) CH 142:

Duty cycle = 0.926/0.991 = 0.934, Duty factor = 10 * log(1/0.934) = 0.29

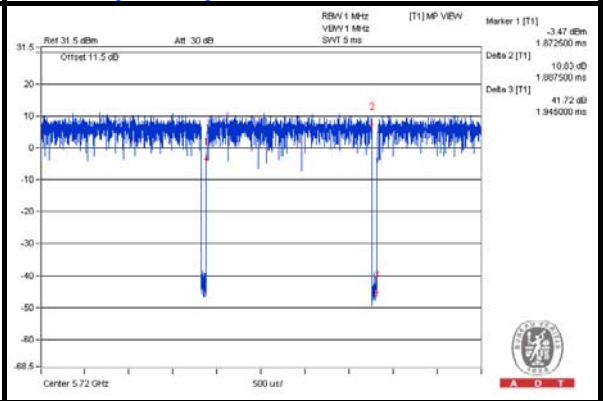
802.11ac (80MHz) CH 138:

Duty cycle = 0.455/0.515 = 0.882, Duty factor = 10 * log(1/0.882) = 0.55

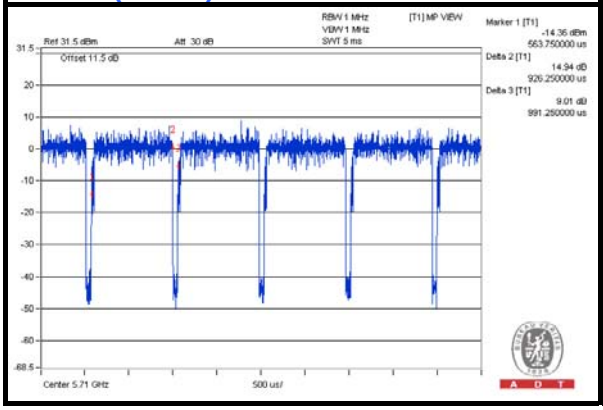
802.11a



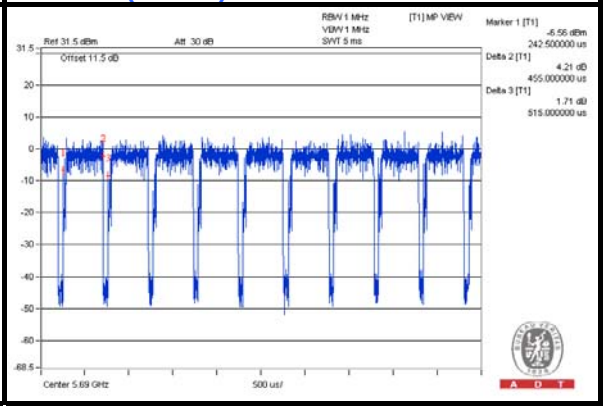
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE E

MODULATION TYPE: BPSK

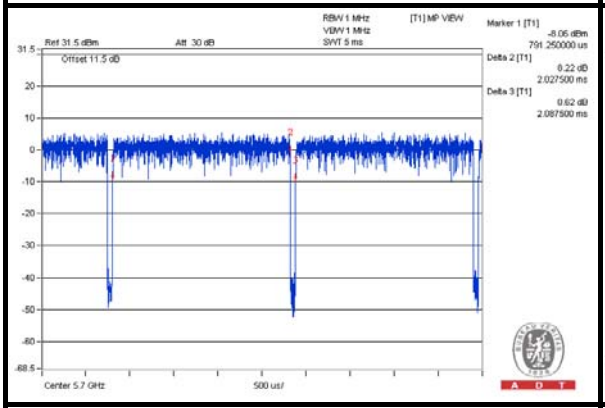
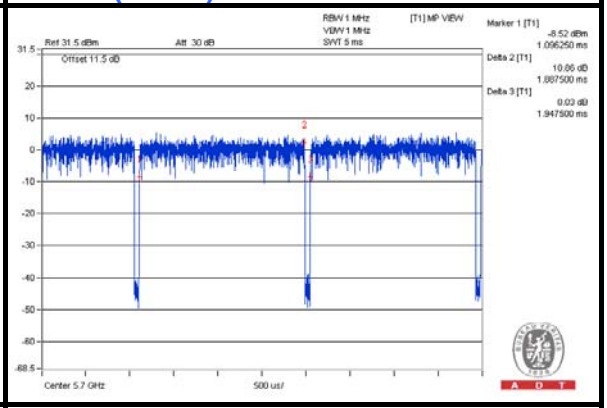
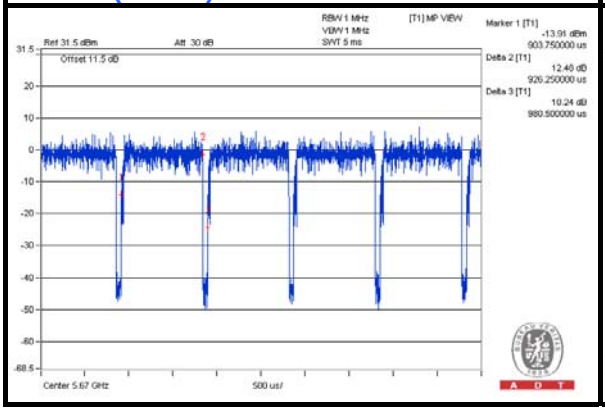
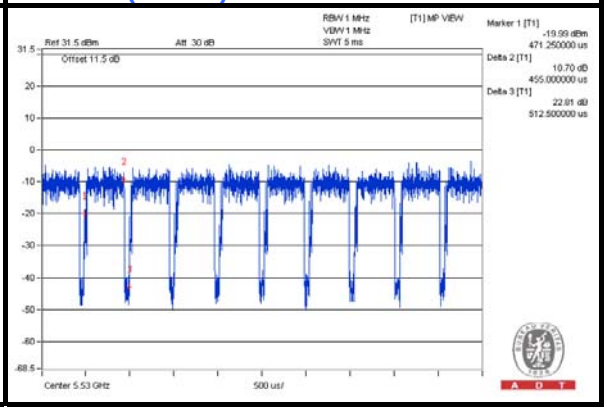
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 2.0275/2.0875 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13

802.11n (20MHz): Duty cycle = 1.888/1.948 = 0.969, Duty factor = 10 * log(1/0.969) = 0.14

802.11n (40MHz): Duty cycle = 0.926/0.981 = 0.945, Duty factor = 10 * log(1/0.945) = 0.25

802.11ac (80MHz): Duty cycle = 0.455/0.513 = 0.889, Duty factor = 10 * log(1/0.889) = 0.51

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: QPSK

Duty cycle of test signal is < 98 %, duty factor is required

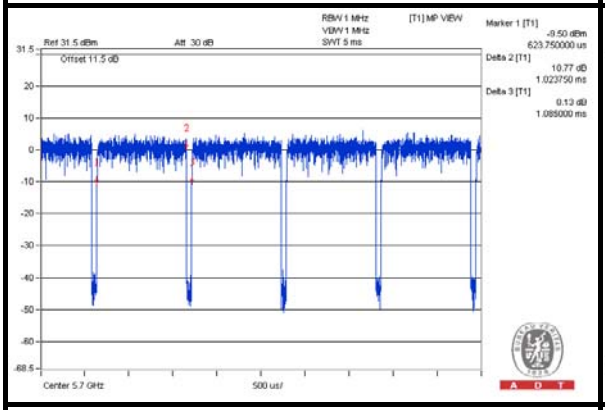
802.11a: Duty cycle = 1.024/1.085 = 0.944, Duty factor = 10 * log(1/0.944) = 0.25

802.11n (20MHz): Duty cycle = 0.961/1.019 = 0.943, Duty factor = 10 * log(1/0.943) = 0.25

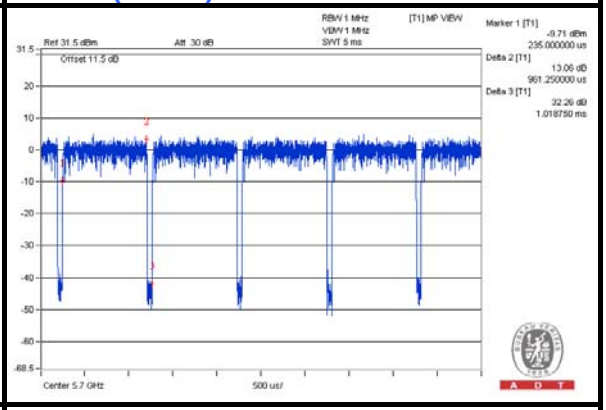
802.11n (40MHz): Duty cycle = 0.484/0.544 = 0.89, Duty factor = 10 * log(1/0.89) = 0.51

802.11ac (80MHz): Duty cycle = 0.245/0.304 = 0.806, Duty factor = 10 * log(1/0.806) = 0.94

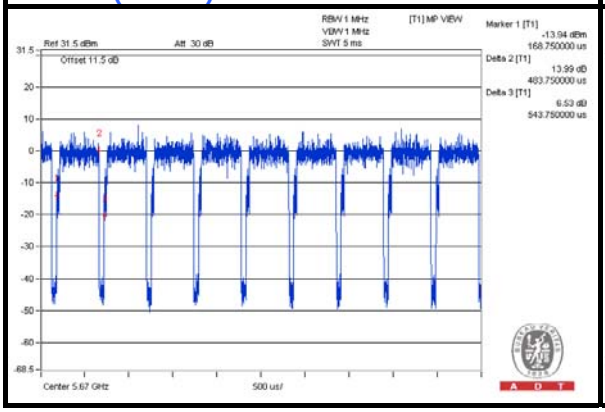
802.11a



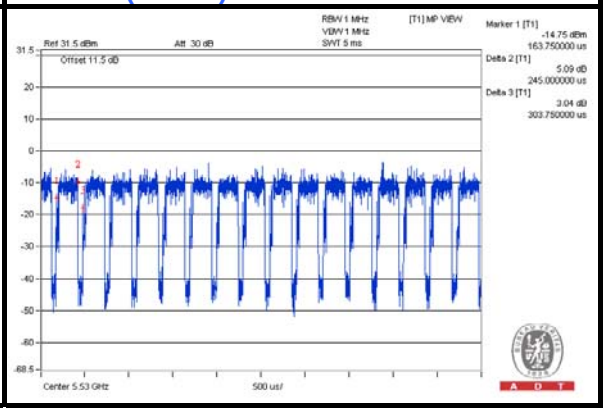
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 16QAM

Duty cycle of test signal is < 98 %, duty factor is required

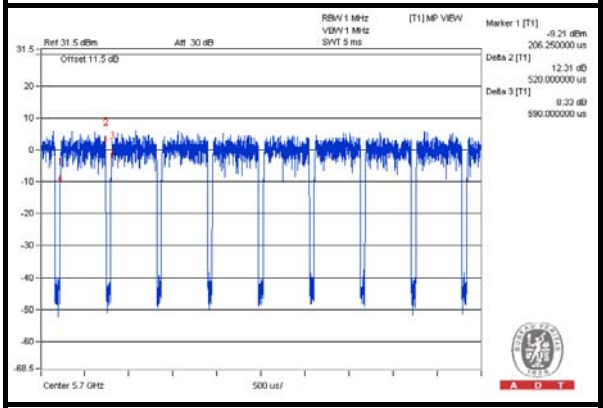
802.11a: Duty cycle = 0.52/0.59 =0.881, Duty factor = 10 * log(1/0.881) = 0.55

802.11n (20MHz): Duty cycle = 0.499/0.556 = 0.897, Duty factor = 10 * log(1/0.897) = 0.47

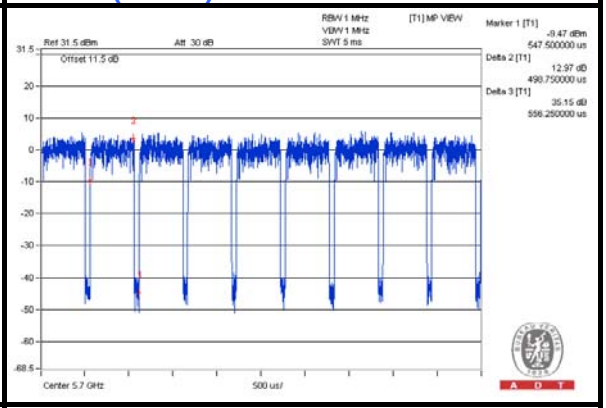
802.11n (40MHz): Duty cycle = 0.256/0.315 = 0.813, Duty factor = 10 * log(1/0.813) = 0.90

802.11ac (80MHz): Duty cycle = 0.144/0.201 = 0.716, Duty factor = 10 * log(1/0.716) = 1.45

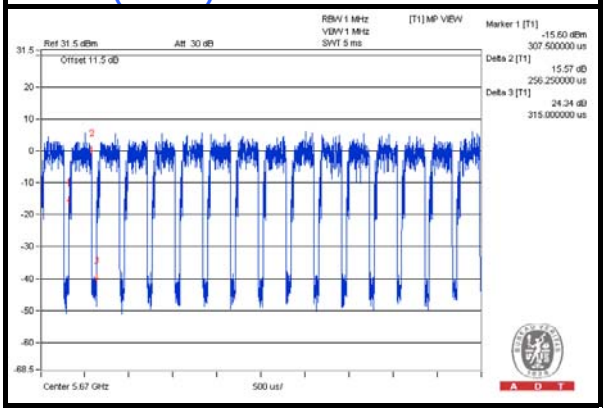
802.11a



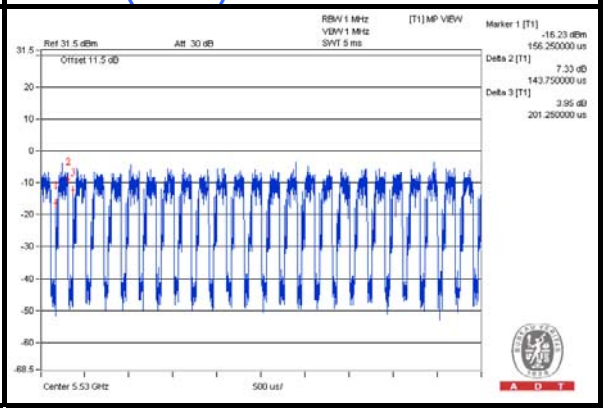
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 64QAM

Duty cycle of test signal is < 98 %, duty factor is required

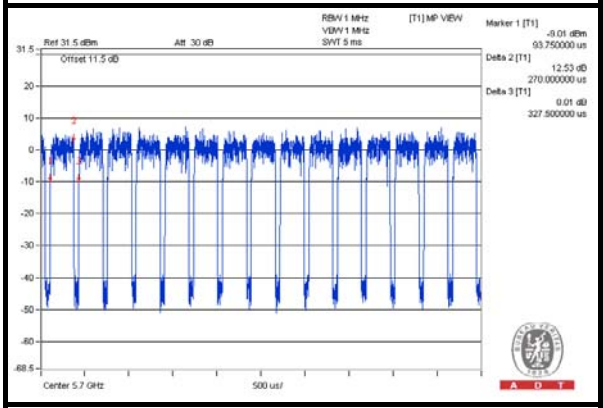
802.11a: Duty cycle = 0.270/0.328 =0.823, Duty factor = 10 * log(1/0.823) = 0.85

802.11n (20MHz): Duty cycle = 0.268/0.324 = 0.827, Duty factor = 10 * log(1/0.827) = 0.82

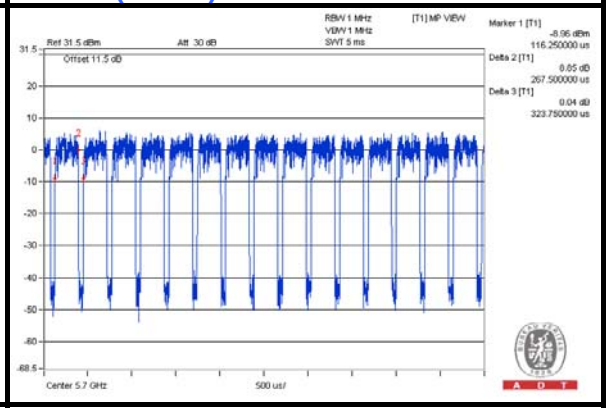
802.11n (40MHz): Duty cycle = 0.148/0.214 = 0.692, Duty factor = 10 * log(1/0.692) = 1.60

802.11ac (80MHz): Duty cycle = 0.09/0.148 = 0.608, Duty factor = 10 * log(1/0.608) = 2.16

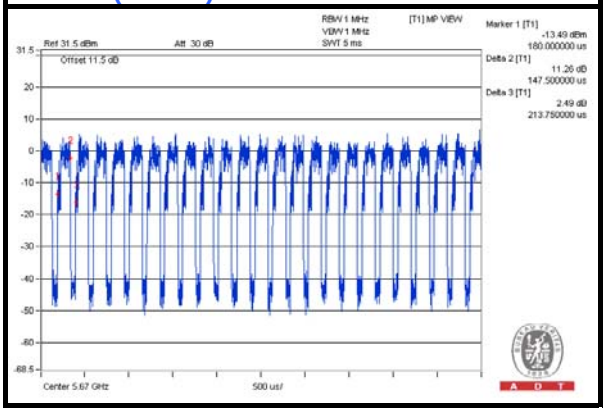
802.11a



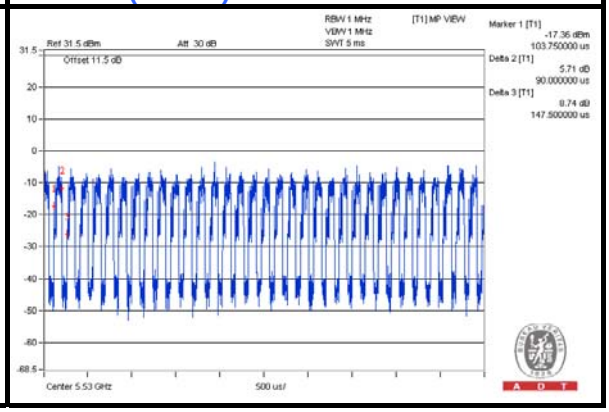
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

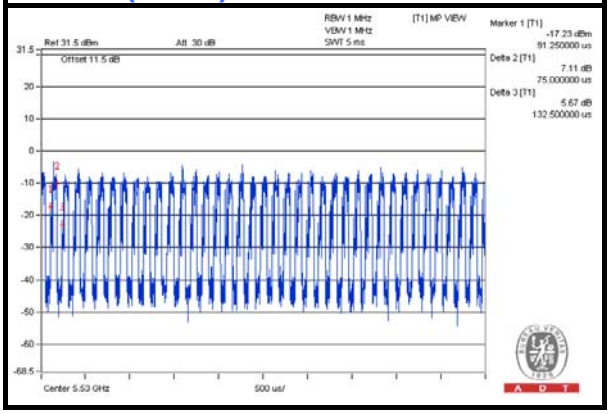


MODULATION TYPE: 256QAM

Duty cycle of test signal is < 98 %, duty factor is required

802.11ac (80MHz): Duty cycle = 0.075/0.133 = 0.564, Duty factor = 10 * log(1/0.564) = 2.49

802.11ac (80MHz)



Duty cycle of test signal is < 98 %, duty factor is required

802.11a CH 144:

Duty cycle = 2.023/2.09 = 0.967, Duty factor = 10 * log(1/0.967) = 0.14

802.11n (20MHz) CH 144:

Duty cycle = 1.888/1.95 = 0.968, Duty factor = 10 * log(1/0.968) = 0.14

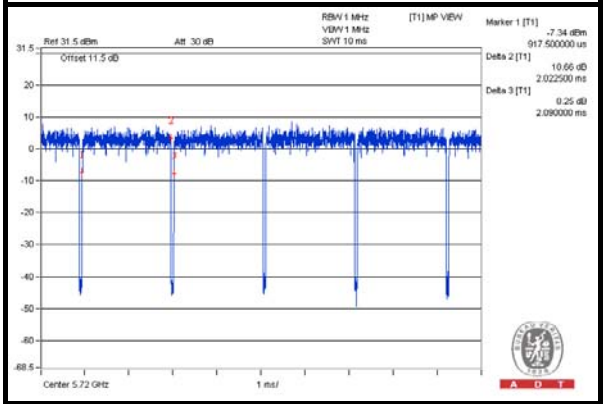
802.11n (40MHz) CH 142:

Duty cycle = 0.927/0.995 = 0.932, Duty factor = 10 * log(1/0.932) = 0.31

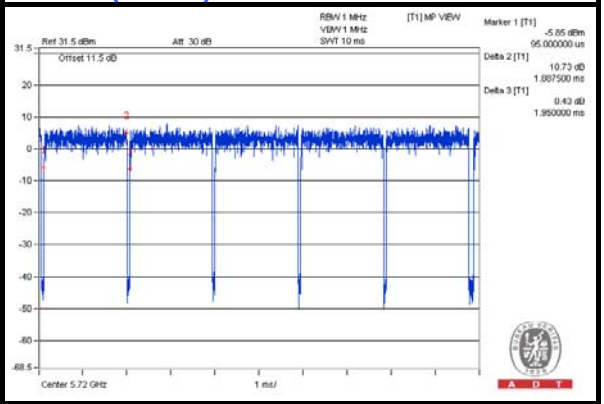
802.11ac (80MHz) CH 138:

Duty cycle = 0.455/0.515 = 0.883, Duty factor = 10 * log(1/0.883) = 0.54

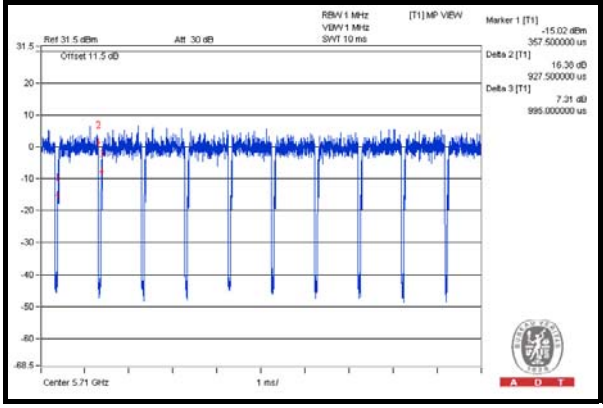
802.11a



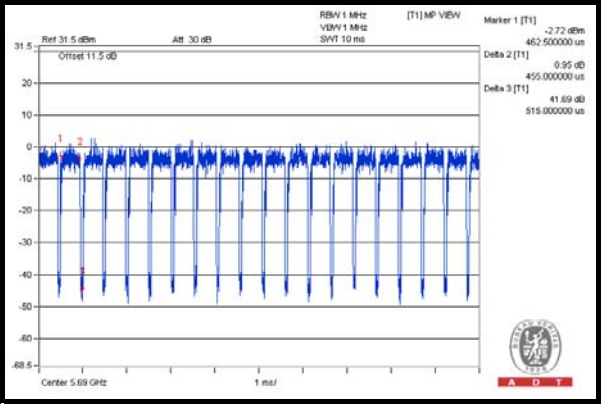
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE F

MODULATION TYPE: BPSK

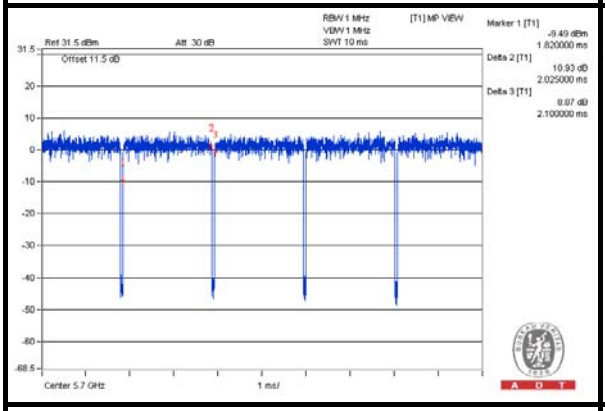
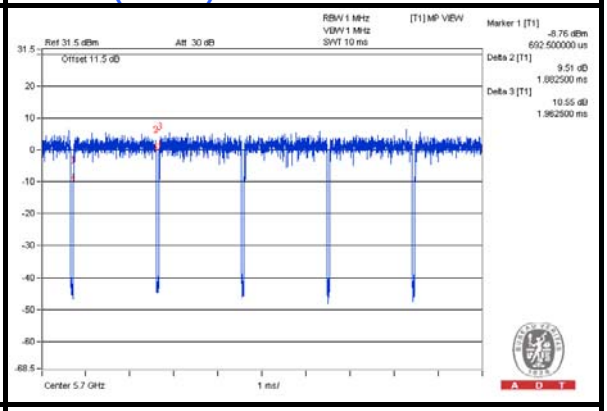
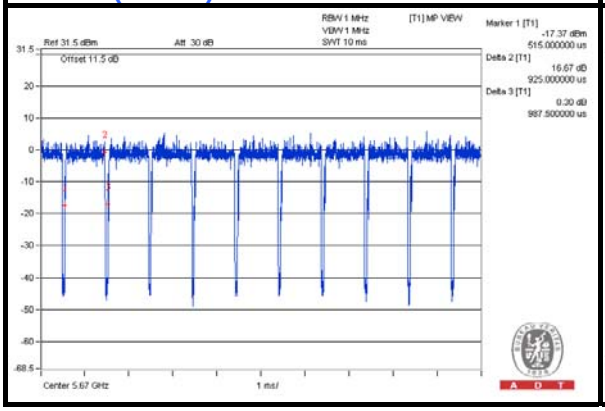
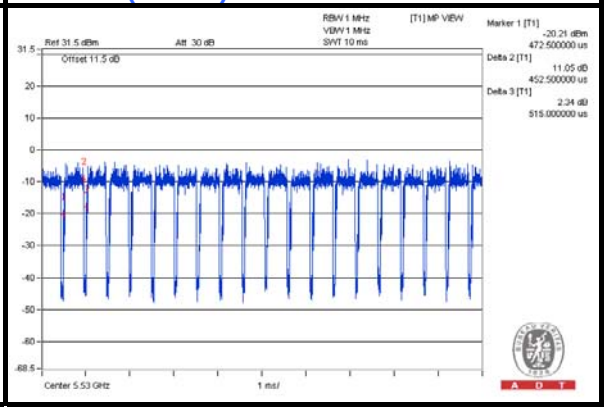
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 2.025/2.100 = 0.964, Duty factor = 10 * log(1/0.964) = 0.16

802.11n (20MHz): Duty cycle = 1.882/1.962 = 0.959, Duty factor = 10 * log(1/0.959) = 0.18

802.11n (40MHz): Duty cycle = 0.925/0.988 = 0.937, Duty factor = 10 * log(1/0.937) = 0.28

802.11ac (80MHz): Duty cycle = 0.453/0.515 = 0.88, Duty factor = 10 * log(1/0.88) = 0.56

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: QPSK

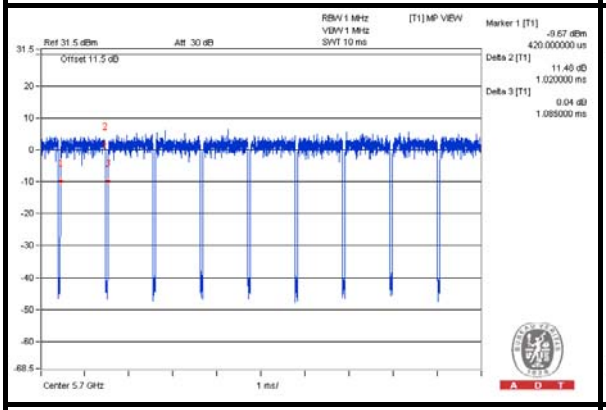
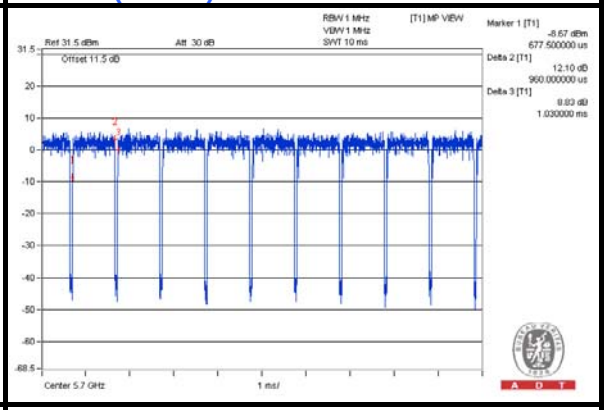
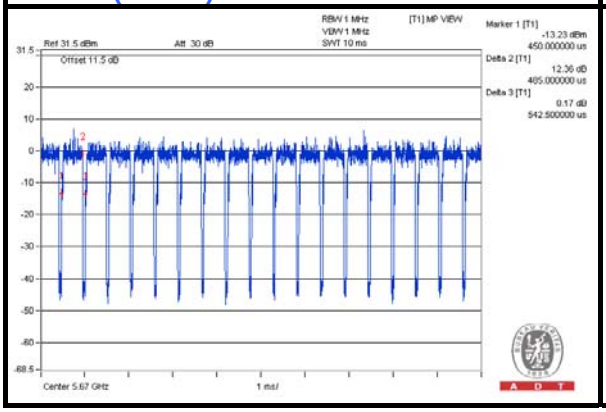
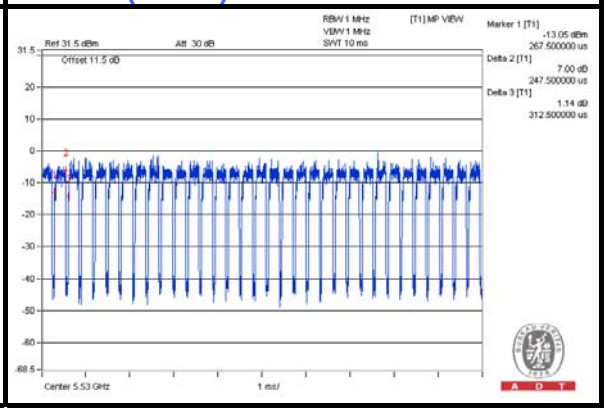
Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 1.02/1.085 = 0.94, Duty factor = 10 * log(1/0.94) = 0.27

802.11n (20MHz): Duty cycle = 0.96/1.03 = 0.932, Duty factor = 10 * log(1/0.932) = 0.31

802.11n (40MHz): Duty cycle = 0.485/0.543 = 0.893, Duty factor = 10 * log(1/0.893) = 0.49

802.11ac (80MHz): Duty cycle = 0.248/0.313 = 0.792, Duty factor = 10 * log(1/0.792) = 1.01

802.11a	802.11n (20MHz)
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

MODULATION TYPE: 16QAM

Duty cycle of test signal is < 98 %, duty factor is required

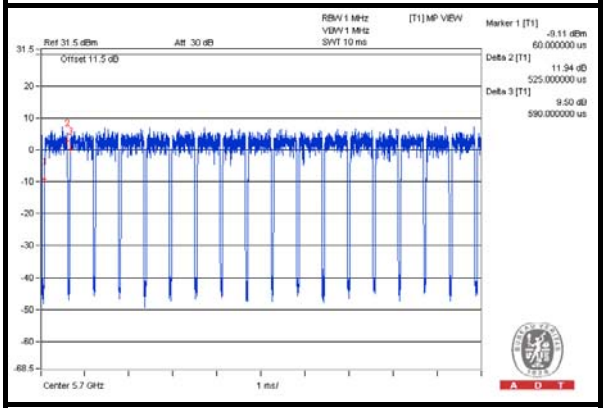
802.11a: Duty cycle = 0.525/0.59 =0.89, Duty factor = 10 * log(1/0.89) = 0.51

802.11n (20MHz): Duty cycle = 0.498/0.568 = 0.877, Duty factor = 10 * log(1/0.877) = 0.57

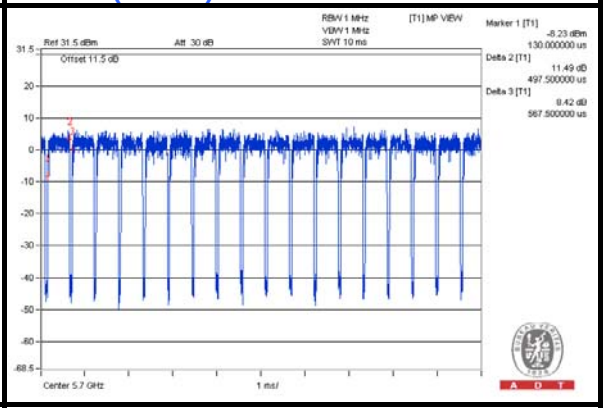
802.11n (40MHz): Duty cycle = 0.26/0.32 = 0.813, Duty factor = 10 * log(1/0.813) = 0.90

802.11ac (80MHz): Duty cycle = 0.133/0.20 = 0.665, Duty factor = 10 * log(1/0.665) = 1.77

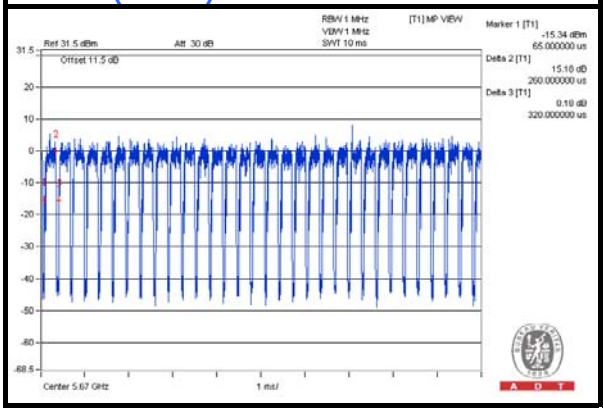
802.11a



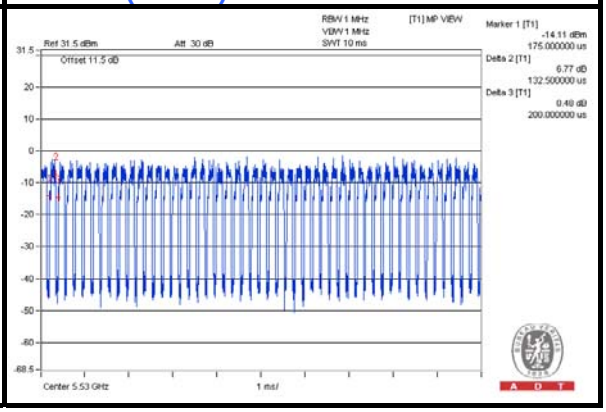
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



MODULATION TYPE: 64QAM

Duty cycle of test signal is < 98 %, duty factor is required

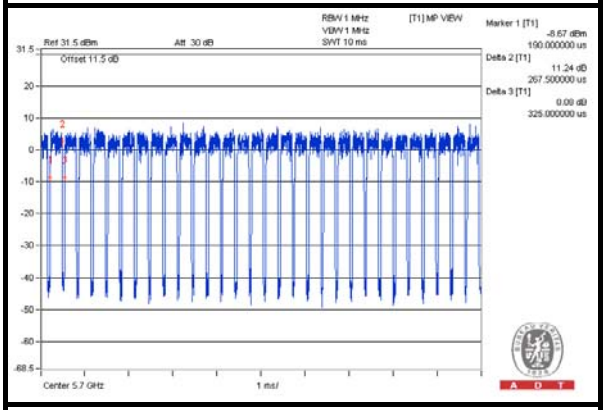
802.11a: Duty cycle = 0.268/0.325 =0.825, Duty factor = 10 * log(1/0.825) = 0.84

802.11n (20MHz): Duty cycle = 0.268/0.325 = 0.825, Duty factor = 10 * log(1/0.825) = 0.84

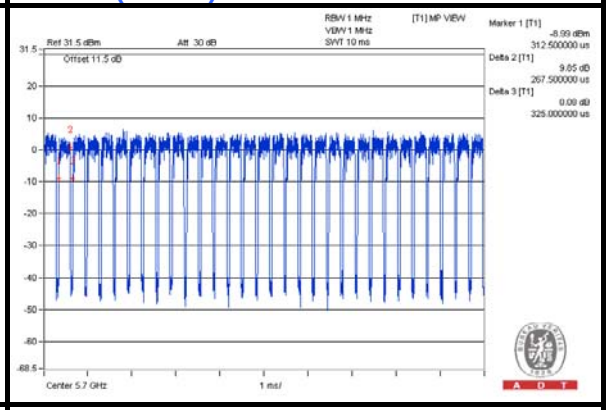
802.11n (40MHz): Duty cycle = 0.148/0.205 = 0.722, Duty factor = 10 * log(1/0.722) = 1.41

802.11ac (80MHz): Duty cycle = 0.09/0.165 = 0.545, Duty factor = 10 * log(1/0.545) = 2.63

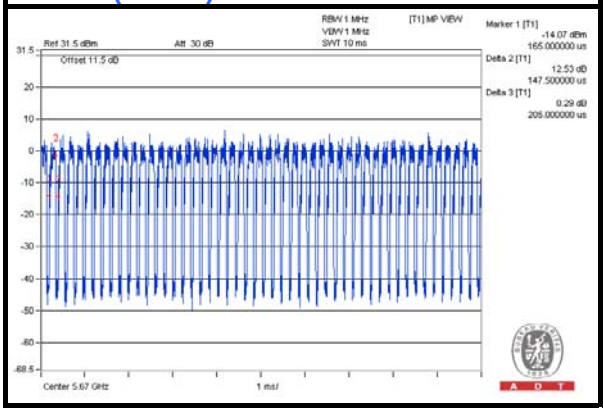
802.11a



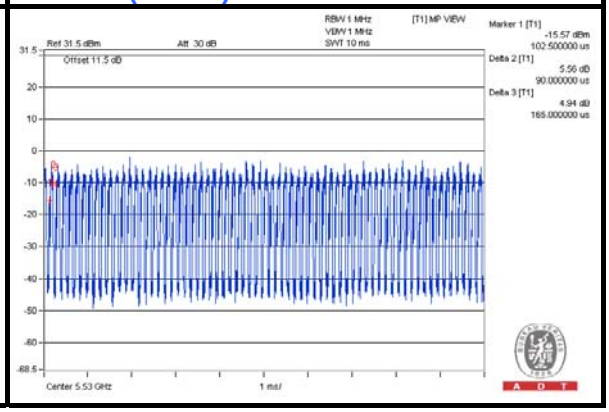
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

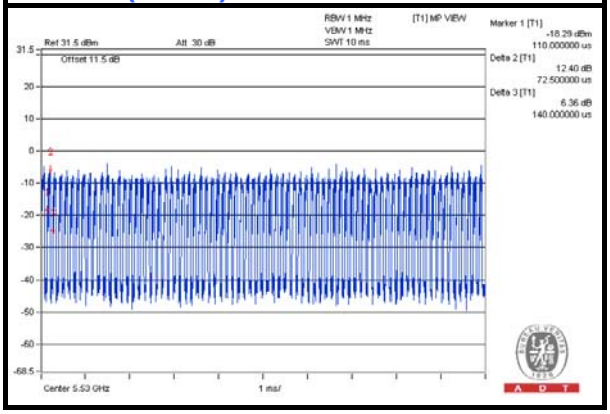


MODULATION TYPE: 256QAM

Duty cycle of test signal is < 98 %, duty factor is required

802.11ac (80MHz): Duty cycle = 0.073/0.14 = 0.521, Duty factor = 10 * log(1/0.521) = 2.83

802.11ac (80MHz)



Duty cycle of test signal is < 98 %, duty factor is required

802.11a CH 144:

Duty cycle = 2.023/2.09 = 0.967, Duty factor = 10 * log(1/0.967) = 0.14

802.11n (20MHz) CH 144:

Duty cycle = 1.888/1.95 = 0.968, Duty factor = 10 * log(1/0.968) = 0.14

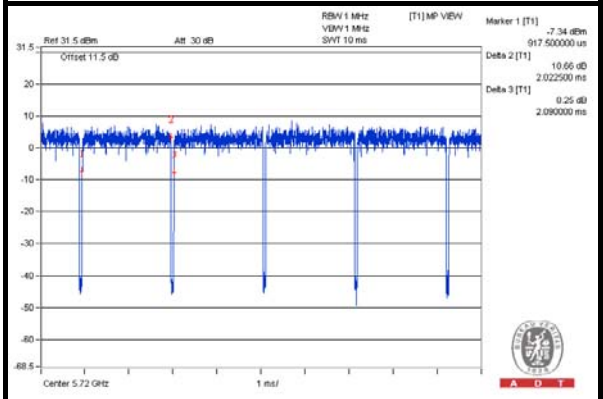
802.11n (40MHz) CH 142:

Duty cycle = 0.926/0.986 = 0.939, Duty factor = 10 * log(1/0.939) = 0.27

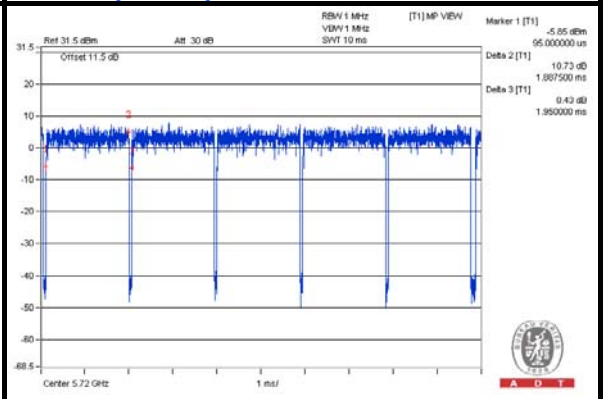
802.11ac (80MHz) CH 138:

Duty cycle = 0.455/0.515 = 0.883, Duty factor = 10 * log(1/0.883) = 0.54

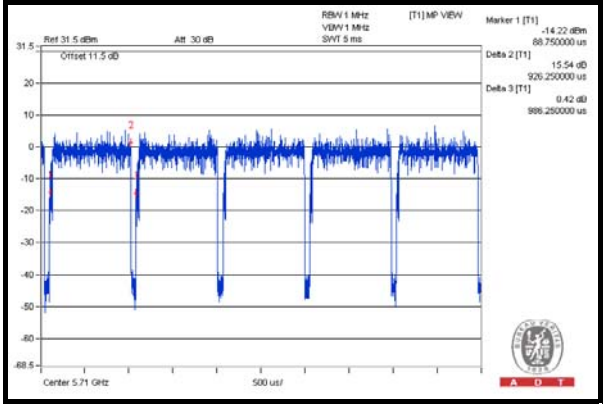
802.11a



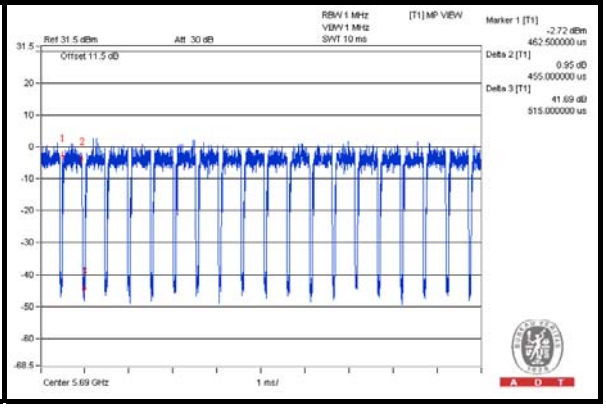
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



3.4 DESCRIPTION OF SUPPORT UNITS

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

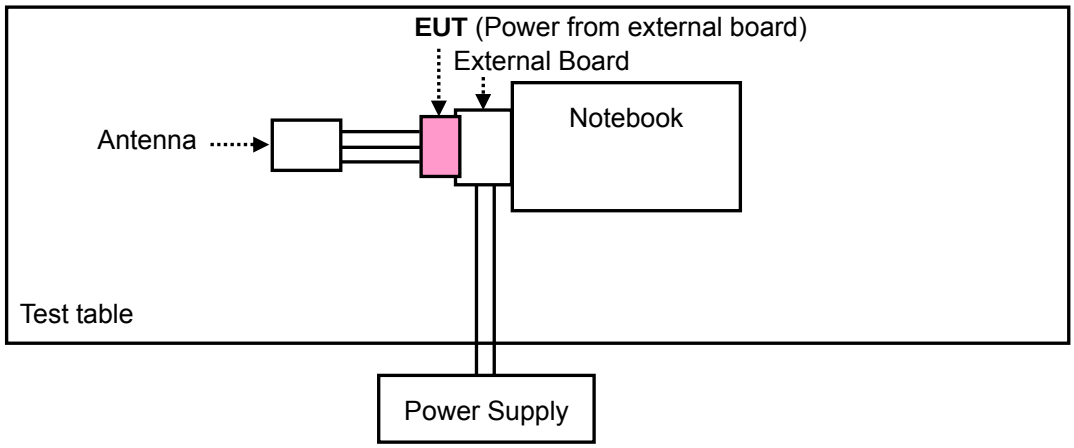
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	D531	CN-0XM006-48643-81U-2610	QDS-BRCM1020
2	External Board	NA	NA	NA	NA
3	Power Supply	Topward	6603D	802001	NA

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

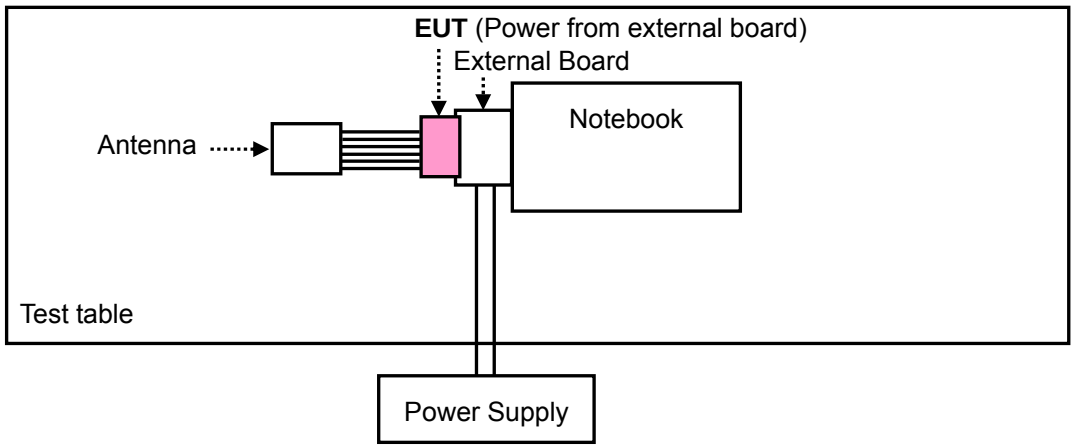
NOTE:
1. All power cords of the above support units are non-shielded (1.8m).
2. Item 2 was provided by client.
3. Item 3 was placed under the test table.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST

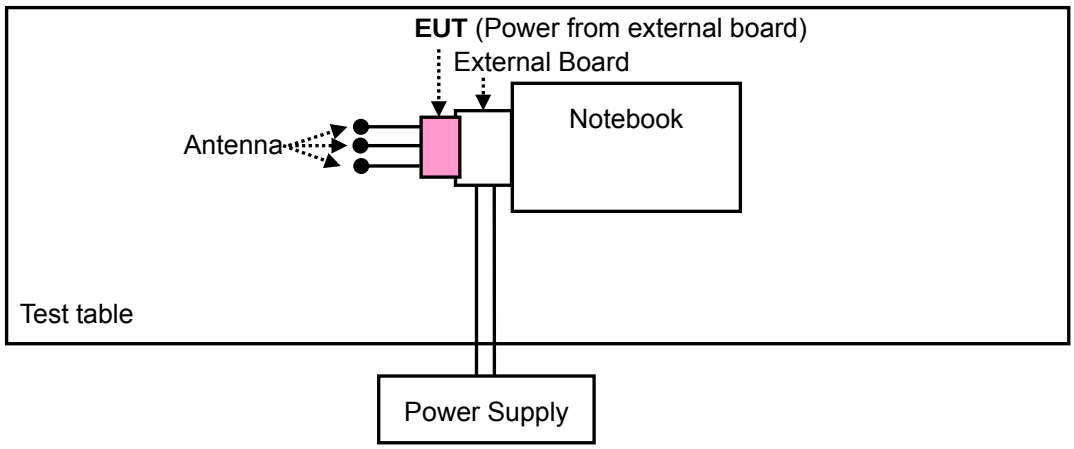
TEST MODE A, F



TEST MODE B, C



TEST MODE D, E



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)
789033 D02 General UNII Test Procedures New Rules v01
662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2009

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

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

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

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

NOTE:

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

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	**EIRP LIMIT**	**EQUIVALENT FIELD STRENGTH AT 3m**
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) *1 PK: -17 (dBm/MHz) *2	PK: 68.3 (dBμV/m) *1 PK: 78.3 (dBμV/m) *2

NOTE: *1 beyond 10MHz of the band edge *2 within 10 MHz of band edge

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

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

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Jan. 02, 2014	Jan. 01, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Mar. 03, 2014	Mar. 02, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Feb. 26, 2014	Feb. 25, 2015
HORN Antenna SCHWARZBECK	9120D	209	Sep. 12, 2013	Sep. 11, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Preamplifier Agilent	8447D	2944A10633	Oct. 07, 2013	Oct. 06, 2014
Preamplifier Agilent	8449B	3008A01964	Aug. 26, 2013	Aug. 25, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	214378/4	Aug. 26, 2013	Aug. 25, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	12738/6 +309224/4	Aug. 26, 2013	Aug. 25, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2013	Oct. 17, 2014
High Speed Peak Power Meter	ML2495A	0824011	Jul. 29, 2013	Jul. 28, 2014
Power Sensor	MA2411B	0738171	Jul. 29, 2013	Jul. 28, 2014
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 10, 2013	Jun. 09, 2014

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

2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 988962.
5. The IC Site Registration No. is IC 7450F-3.

4.1.4 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

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

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

NOTE:

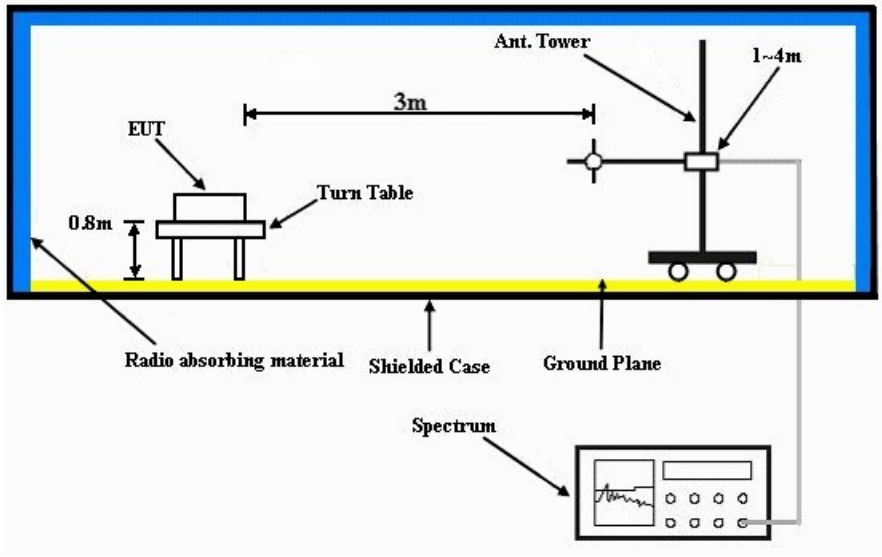
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T(Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

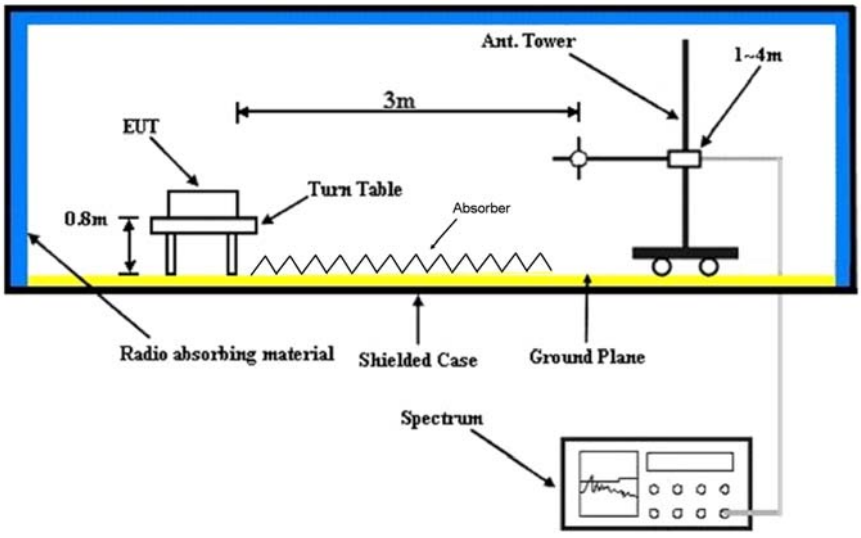
No deviation.

4.1.6 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

4.1.7 EUT OPERATING CONDITION

a. Plugged the EUT into notebook via external board and placed them on the testing table.
b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
c. The necessary accessories enable the system in full functions.

4.1.8 TEST RESULTS

ABOVE 1GHz DATA：

802.11a

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	5100.00	56.2 PK	74.0	-17.8	1.13 H	333	51.10	5.10
2	5100.00	45.3 AV	54.0	-8.7	1.13 H	333	40.20	5.10
3	*5260.00	114.8 PK			1.00 H	0	76.90	37.90
4	*5260.00	104.8 AV			1.00 H	0	66.90	37.90
5	#10520.00	61.2 PK	74.0	-12.8	1.33 H	199	41.80	19.40
6	#10520.00	48.7 AV	54.0	-5.3	1.33 H	199	29.30	19.40
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	5100.00	59.1 PK	74.0	-14.9	1.18 V	348	54.00	5.10
2	5100.00	46.1 AV	54.0	-7.9	1.18 V	348	41.00	5.10
3	*5260.00	118.1 PK			1.06 V	2	80.20	37.90
4	*5260.00	108.0 AV			1.06 V	2	70.10	37.90
5	#10520.00	61.5 PK	74.0	-12.5	1.39 V	54	42.10	19.40
6	#10520.00	49.1 AV	54.0	-4.9	1.39 V	54	29.70	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	113.5 PK			1.00 H	337	75.60	37.90
2	*5300.00	103.5 AV			1.00 H	337	65.60	37.90
3	10600.00	61.3 PK	74.0	-12.7	1.29 H	214	42.30	19.00
4	10600.00	47.9 AV	54.0	-6.1	1.29 H	214	28.90	19.00
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	*5300.00	117.2 PK			1.14 V	352	79.30	37.90
2	*5300.00	106.8 AV			1.14 V	352	68.90	37.90
3	10600.00	62.1 PK	74.0	-11.9	1.14 V	294	43.10	19.00
4	10600.00	48.5 AV	54.0	-5.5	1.14 V	294	29.50	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	114.2 PK			1.00 H	7	76.20	38.00
2	*5320.00	103.8 AV			1.00 H	7	65.80	38.00
3	5350.00	68.1 PK	74.0	-5.9	1.31 H	0	62.70	5.40
4	5350.00	47.1 AV	54.0	-6.9	1.31 H	0	41.70	5.40
5	10640.00	61.1 PK	74.0	-12.9	1.13 H	91	42.30	18.80
6	10640.00	47.3 AV	54.0	-6.7	1.13 H	91	28.50	18.80
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	*5320.00	119.0 PK			1.12 V	4	81.00	38.00
2	*5320.00	108.8 AV			1.12 V	4	70.80	38.00
3	5350.00	72.3 PK	74.0	-1.7	1.14 V	347	66.90	5.40
4	5350.00	50.4 AV	54.0	-3.6	1.14 V	347	45.00	5.40
5	10640.00	61.5 PK	74.0	-12.5	1.23 V	34	42.70	18.80
6	10640.00	48.4 AV	54.0	-5.6	1.23 V	34	29.60	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	59.3 PK	74.0	-14.7	1.09 H	6	53.70	5.60
2	5460.00	44.9 AV	54.0	-9.1	1.09 H	6	39.30	5.60
3	#5470.00	66.4 PK	74.0	-7.6	1.05 H	354	60.70	5.70
4	#5470.00	46.1 AV	54.0	-7.9	1.05 H	354	40.40	5.70
5	*5500.00	112.5 PK			1.05 H	3	74.20	38.30
6	*5500.00	102.4 AV			1.05 H	3	64.10	38.30
7	11000.00	61.3 PK	74.0	-12.7	1.10 H	44	41.50	19.80
8	11000.00	48.1 AV	54.0	-5.9	1.10 H	44	28.30	19.80
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	5460.00	65.9 PK	74.0	-8.1	1.21 V	346	60.30	5.60
2	5460.00	47.7 AV	54.0	-6.3	1.21 V	346	42.10	5.60
3	#5470.00	72.6 PK	74.0	-1.4	1.23 V	344	66.90	5.70
4	#5470.00	49.7 AV	54.0	-4.3	1.23 V	344	44.00	5.70
5	*5500.00	118.5 PK			1.09 V	358	80.20	38.30
6	*5500.00	108.7 AV			1.09 V	358	70.40	38.30
7	11000.00	62.3 PK	74.0	-11.7	1.00 V	265	42.50	19.80
8	11000.00	48.5 AV	54.0	-5.5	1.00 V	265	28.70	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	114.4 PK			1.04 H	355	76.10	38.30
2	*5580.00	104.5 AV			1.04 H	355	66.20	38.30
3	11160.00	61.5 PK	74.0	-12.5	1.09 H	208	41.60	19.90
4	11160.00	48.3 AV	54.0	-5.7	1.09 H	208	28.40	19.90
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	*5580.00	119.9 PK			1.17 V	348	81.60	38.30
2	*5580.00	109.2 AV			1.17 V	348	70.90	38.30
3	11160.00	62.1 PK	74.0	-11.9	1.23 V	258	42.20	19.90
4	11160.00	48.8 AV	54.0	-5.2	1.23 V	258	28.90	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	112.1 PK			1.10 H	2	73.60	38.50
2	*5700.00	102.1 AV			1.10 H	2	63.60	38.50
3	#5725.00	66.2 PK	74.0	-7.8	1.01 H	5	60.20	6.00
4	#5725.00	45.4 AV	54.0	-8.6	1.01 H	5	39.40	6.00
5	11400.00	61.1 PK	74.0	-12.9	1.24 H	79	41.10	20.00
6	11400.00	48.1 AV	54.0	-5.9	1.24 H	79	28.10	20.00
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	*5700.00	116.8 PK			1.15 V	356	78.30	38.50
2	*5700.00	106.1 AV			1.15 V	356	67.60	38.50
3	#5725.00	72.4 PK	74.0	-1.6	1.04 V	354	66.40	6.00
4	#5725.00	49.8 AV	54.0	-4.2	1.04 V	354	43.80	6.00
5	11400.00	61.5 PK	74.0	-12.5	1.00 V	151	41.50	20.00
6	11400.00	48.3 AV	54.0	-5.7	1.00 V	151	28.30	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A		

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	#5470.00	57.3 PK	74.0	-16.7	1.08 H	54	51.60	5.70
2	#5470.00	45.1 AV	54.0	-8.9	1.08 H	54	39.40	5.70
3	*5720.00	108.1 PK			1.11 H	22	69.60	38.50
4	*5720.00	98.6 AV			1.11 H	22	60.10	38.50
5	#5850.00	58.1 PK	74.0	-15.9	1.14 H	126	51.90	6.20
6	#5850.00	44.9 AV	54.0	-9.1	1.14 H	126	38.70	6.20
7	11440.00	63.2 PK	74.0	-10.8	1.14 H	206	42.90	20.30
8	11440.00	48.9 AV	54.0	-5.1	1.14 H	206	28.60	20.30
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	#5470.00	58.3 PK	74.0	-15.7	1.16 V	45	52.60	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.16 V	45	39.70	5.70
3	*5720.00	113.1 PK			1.00 V	347	74.60	38.50
4	*5720.00	102.4 AV			1.00 V	347	63.90	38.50
5	#5850.00	57.8 PK	74.0	-16.2	1.14 V	106	51.60	6.20
6	#5850.00	44.8 AV	54.0	-9.2	1.14 V	106	38.60	6.20
7	11440.00	63.0 PK	74.0	-11.0	1.15 V	47	42.70	20.30
8	11440.00	49.0 AV	54.0	-5.0	1.15 V	47	28.70	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (20MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	55.9 PK	74.0	-18.1	1.00 H	29	50.80	5.10
2	5150.00	45.1 AV	54.0	-8.9	1.00 H	29	40.00	5.10
3	*5260.00	115.3 PK			1.01 H	359	77.40	37.90
4	*5260.00	105.0 AV			1.01 H	359	67.10	37.90
5	10620.00	60.6 PK	74.0	-13.4	1.50 H	239	41.70	18.90
6	10620.00	47.5 AV	54.0	-6.5	1.50 H	239	28.60	18.90
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	5150.00	59.2 PK	74.0	-14.8	1.16 V	345	54.10	5.10
2	5150.00	45.7 AV	54.0	-8.3	1.16 V	345	40.60	5.10
3	*5260.00	115.8 PK			1.13 V	353	77.90	37.90
4	*5260.00	105.2 AV			1.13 V	353	67.30	37.90
5	10620.00	61.2 PK	74.0	-12.8	1.25 V	66	42.30	18.90
6	10620.00	47.9 AV	54.0	-6.1	1.25 V	66	29.00	18.90

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) – Pre-Amplifier 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 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	114.5 PK			1.00 H	357	76.60	37.90
2	*5300.00	103.7 AV			1.00 H	357	65.80	37.90
3	10600.00	60.8 PK	74.0	-13.2	1.19 H	268	41.80	19.00
4	10600.00	47.5 AV	54.0	-6.5	1.19 H	268	28.50	19.00
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	*5300.00	116.6 PK			1.06 V	352	78.70	37.90
2	*5300.00	106.6 AV			1.06 V	352	68.70	37.90
3	10600.00	60.9 PK	74.0	-13.1	1.09 V	88	41.90	19.00
4	10600.00	48.0 AV	54.0	-6.0	1.09 V	88	29.00	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	114.0 PK			1.00 H	339	76.00	38.00
2	*5320.00	103.5 AV			1.00 H	339	65.50	38.00
3	5350.00	69.9 PK	74.0	-4.1	1.00 H	1	64.50	5.40
4	5350.00	48.0 AV	54.0	-6.0	1.00 H	1	42.60	5.40
5	10640.00	60.3 PK	74.0	-13.7	1.34 H	95	41.50	18.80
6	10640.00	46.8 AV	54.0	-7.2	1.34 H	95	28.00	18.80
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	*5320.00	118.7 PK			1.13 V	1	80.70	38.00
2	*5320.00	108.3 AV			1.13 V	1	70.30	38.00
3	5350.00	72.3 PK	74.0	-1.7	1.10 V	356	66.90	5.40
4	5350.00	50.0 AV	54.0	-4.0	1.10 V	356	44.60	5.40
5	10640.00	60.7 PK	74.0	-13.3	1.23 V	285	41.90	18.80
6	10640.00	47.3 AV	54.0	-6.7	1.23 V	285	28.50	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	59.9 PK	74.0	-14.1	1.09 H	7	54.30	5.60
2	5460.00	45.3 AV	54.0	-8.7	1.09 H	7	39.70	5.60
3	#5470.00	62.2 PK	74.0	-11.8	1.09 H	2	56.50	5.70
4	#5470.00	46.0 AV	54.0	-8.0	1.09 H	2	40.30	5.70
5	*5500.00	112.9 PK			1.15 H	358	74.60	38.30
6	*5500.00	102.6 AV			1.15 H	358	64.30	38.30
7	11000.00	60.7 PK	74.0	-13.3	1.32 H	49	40.90	19.80
8	11000.00	47.6 AV	54.0	-6.4	1.32 H	49	27.80	19.80
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	5460.00	60.9 PK	74.0	-13.1	1.12 V	345	55.30	5.60
2	5460.00	47.4 AV	54.0	-6.6	1.12 V	345	41.80	5.60
3	#5470.00	72.5 PK	74.0	-1.5	1.00 V	354	66.80	5.70
4	#5470.00	50.0 AV	54.0	-4.0	1.00 V	354	44.30	5.70
5	*5500.00	116.4 PK			1.02 V	346	78.10	38.30
6	*5500.00	106.1 AV			1.02 V	346	67.80	38.30
7	11000.00	61.7 PK	74.0	-12.3	1.00 V	19	41.90	19.80
8	11000.00	48.4 AV	54.0	-5.6	1.00 V	19	28.60	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	113.8 PK			1.12 H	351	75.50	38.30
2	*5580.00	103.8 AV			1.12 H	351	65.50	38.30
3	11160.00	60.7 PK	74.0	-13.3	1.11 H	11	40.80	19.90
4	11160.00	47.5 AV	54.0	-6.5	1.11 H	11	27.60	19.90
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	*5580.00	117.9 PK			1.00 V	345	79.60	38.30
2	*5580.00	107.2 AV			1.00 V	345	68.90	38.30
3	11160.00	61.6 PK	74.0	-12.4	1.01 V	141	41.70	19.90
4	11160.00	48.2 AV	54.0	-5.8	1.01 V	141	28.30	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	111.2 PK			1.03 H	347	72.70	38.50
2	*5700.00	101.3 AV			1.03 H	347	62.80	38.50
3	#5725.00	59.7 PK	74.0	-14.3	1.09 H	343	53.70	6.00
4	#5725.00	45.9 AV	54.0	-8.1	1.09 H	343	39.90	6.00
5	11400.00	60.9 PK	74.0	-13.1	1.40 H	90	40.90	20.00
6	11400.00	47.6 AV	54.0	-6.4	1.40 H	90	27.60	20.00
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	*5700.00	114.7 PK			1.14 V	6	76.20	38.50
2	*5700.00	104.2 AV			1.14 V	6	65.70	38.50
3	#5725.00	72.3 PK	74.0	-1.7	1.14 V	3	66.30	6.00
4	#5725.00	49.7 AV	54.0	-4.3	1.14 V	3	43.70	6.00
5	11400.00	61.3 PK	74.0	-12.7	1.26 V	285	41.30	20.00
6	11400.00	48.1 AV	54.0	-5.9	1.26 V	285	28.10	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A		

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	#5470.00	57.6 PK	74.0	-16.4	1.15 H	203	51.90	5.70
2	#5470.00	44.7 AV	54.0	-9.3	1.15 H	203	39.00	5.70
3	*5720.00	110.0 PK			1.01 H	23	71.50	38.50
4	*5720.00	100.2 AV			1.01 H	23	61.70	38.50
5	#5850.00	57.7 PK	74.0	-16.3	1.06 H	33	51.50	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.06 H	33	39.60	6.20
7	11440.00	61.3 PK	74.0	-12.7	1.03 H	66	41.00	20.30
8	11440.00	47.8 AV	54.0	-6.2	1.03 H	66	27.50	20.30
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	#5470.00	57.3 PK	74.0	-16.7	1.17 V	48	51.60	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.17 V	48	38.70	5.70
3	*5720.00	113.9 PK			1.00 V	358	75.40	38.50
4	*5720.00	103.4 AV			1.00 V	358	64.90	38.50
5	#5850.00	58.9 PK	74.0	-15.1	1.23 V	69	52.70	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.23 V	69	39.70	6.20
7	11440.00	63.0 PK	74.0	-11.0	1.16 V	47	42.70	20.30
8	11440.00	50.7 AV	54.0	-3.3	1.16 V	47	30.40	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (40MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	55.7 PK	74.0	-18.3	1.14 H	318	50.60	5.10
2	5150.00	44.0 AV	54.0	-10.0	1.14 H	318	38.90	5.10
3	*5270.00	111.6 PK			1.00 H	2	73.70	37.90
4	*5270.00	101.5 AV			1.00 H	2	63.60	37.90
5	#10540.00	60.5 PK	74.0	-13.5	1.23 H	103	41.20	19.30
6	#10540.00	47.2 AV	54.0	-6.8	1.23 H	103	27.90	19.30
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	58.0 PK	74.0	-16.0	1.20 V	354	52.90	5.10
2	5150.00	44.9 AV	54.0	-9.1	1.20 V	354	39.80	5.10
3	*5270.00	114.2 PK			1.08 V	351	76.30	37.90
4	*5270.00	104.2 AV			1.08 V	351	66.30	37.90
5	#10540.00	61.2 PK	74.0	-12.8	1.19 V	294	41.90	19.30
6	#10540.00	47.9 AV	54.0	-6.1	1.19 V	294	28.60	19.30

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	106.6 PK			1.01 H	4	68.70	37.90
2	*5310.00	96.6 AV			1.01 H	4	58.70	37.90
3	5350.00	65.6 PK	74.0	-8.4	1.08 H	2	60.20	5.40
4	5350.00	46.3 AV	54.0	-7.7	1.08 H	2	40.90	5.40
5	10620.00	60.2 PK	74.0	-13.8	1.11 H	109	41.30	18.90
6	10620.00	46.6 AV	54.0	-7.4	1.11 H	109	27.70	18.90
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	*5310.00	111.1 PK			1.01 V	359	73.20	37.90
2	*5310.00	102.8 AV			1.01 V	359	64.90	37.90
3	5350.00	72.4 PK	74.0	-1.6	1.01 V	349	67.00	5.40
4	5350.00	51.6 AV	54.0	-2.4	1.01 V	349	46.20	5.40
5	10620.00	60.5 PK	74.0	-13.5	1.18 V	19	41.60	18.90
6	10620.00	47.3 AV	54.0	-6.7	1.18 V	19	28.40	18.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	58.5 PK	74.0	-15.5	1.09 H	333	52.90	5.60
2	5460.00	44.1 AV	54.0	-9.9	1.09 H	333	38.50	5.60
3	#5470.00	63.6 PK	74.0	-10.4	1.06 H	331	57.90	5.70
4	#5470.00	45.9 AV	54.0	-8.1	1.06 H	331	40.20	5.70
5	*5510.00	105.0 PK			1.05 H	357	66.70	38.30
6	*5510.00	94.9 AV			1.05 H	357	56.60	38.30
7	11020.00	60.6 PK	74.0	-13.4	1.11 H	122	40.70	19.90
8	11020.00	47.6 AV	54.0	-6.4	1.11 H	122	27.70	19.90
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	5460.00	61.3 PK	74.0	-12.7	1.20 V	7	55.70	5.60
2	5460.00	45.4 AV	54.0	-8.6	1.20 V	7	39.80	5.60
3	#5470.00	72.5 PK	74.0	-1.5	1.18 V	9	66.80	5.70
4	#5470.00	50.0 AV	54.0	-4.0	1.18 V	9	44.30	5.70
5	*5510.00	110.0 PK			1.10 V	349	71.70	38.30
6	*5510.00	100.2 AV			1.10 V	349	61.90	38.30
7	11020.00	60.8 PK	74.0	-13.2	1.30 V	357	40.90	19.90
8	11020.00	47.9 AV	54.0	-6.1	1.30 V	357	28.00	19.90

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	111.2 PK			1.04 H	3	72.90	38.30
2	*5550.00	101.2 AV			1.04 H	3	62.90	38.30
3	11100.00	61.6 PK	74.0	-12.4	1.39 H	175	41.80	19.80
4	11100.00	48.4 AV	54.0	-5.6	1.39 H	175	28.60	19.80
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	*5550.00	116.7 PK			1.18 V	358	78.40	38.30
2	*5550.00	106.7 AV			1.18 V	358	68.40	38.30
3	11100.00	60.7 PK	74.0	-13.3	1.29 V	230	40.90	19.80
4	11100.00	47.6 AV	54.0	-6.4	1.29 V	230	27.80	19.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	109.6 PK			1.00 H	356	71.20	38.40
2	*5670.00	99.5 AV			1.00 H	356	61.10	38.40
3	#5725.00	64.9 PK	74.0	-9.1	1.00 H	19	58.90	6.00
4	#5725.00	46.1 AV	54.0	-7.9	1.00 H	19	40.10	6.00
5	11340.00	60.9 PK	74.0	-13.1	1.31 H	285	41.00	19.90
6	11340.00	47.8 AV	54.0	-6.2	1.31 H	285	27.90	19.90
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	*5670.00	113.2 PK			1.00 V	339	74.80	38.40
2	*5670.00	102.6 AV			1.00 V	339	64.20	38.40
3	#5725.00	72.3 PK	74.0	-1.7	1.03 V	359	66.30	6.00
4	#5725.00	49.3 AV	54.0	-4.7	1.03 V	359	43.30	6.00
5	11340.00	61.2 PK	74.0	-12.8	1.16 V	299	41.30	19.90
6	11340.00	48.1 AV	54.0	-5.9	1.16 V	299	28.20	19.90

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A		

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	#5470.00	57.8 PK	74.0	-16.2	1.10 H	43	52.10	5.70
2	#5470.00	43.9 AV	54.0	-10.1	1.10 H	43	38.20	5.70
3	*5710.00	111.2 PK			1.02 H	23	72.70	38.50
4	*5710.00	101.4 AV			1.02 H	23	62.90	38.50
5	#5850.00	58.8 PK	74.0	-15.2	1.13 H	69	52.60	6.20
6	#5850.00	46.3 AV	54.0	-7.7	1.13 H	69	40.10	6.20
7	11420.00	71.4 PK	74.0	-2.6	1.15 H	222	51.30	20.10
8	11420.00	48.1 AV	54.0	-5.9	1.15 H	222	28.00	20.10
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	#5470.00	58.3 PK	74.0	-15.7	1.13 V	224	52.60	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.13 V	224	39.70	5.70
3	*5710.00	113.4 PK			1.10 V	355	74.90	38.50
4	*5710.00	103.7 AV			1.10 V	355	65.20	38.50
5	#5850.00	57.9 PK	74.0	-16.1	1.04 V	77	51.70	6.20
6	#5850.00	44.9 AV	54.0	-9.1	1.04 V	77	38.70	6.20
7	11420.00	62.6 PK	74.0	-11.4	1.10 V	214	42.50	20.10
8	11420.00	49.1 AV	54.0	-4.9	1.10 V	214	29.00	20.10

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) – Pre-Amplifier 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 of the restricted band.

802.11ac(80MHz)

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

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	*5290.00	100.3 PK			1.00 H	338	62.40	37.90
2	*5290.00	90.8 AV			1.00 H	338	52.90	37.90
3	5350.00	64.1 PK	74.0	-9.9	1.00 H	1	58.70	5.40
4	5350.00	48.0 AV	54.0	-6.0	1.00 H	1	42.60	5.40
5	#10580.00	60.9 PK	74.0	-13.1	1.30 H	139	41.70	19.20
6	#10580.00	47.3 AV	54.0	-6.7	1.30 H	119	28.10	19.20
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	*5290.00	103.0 PK			1.06 V	352	65.10	37.90
2	*5290.00	93.5 AV			1.06 V	352	55.60	37.90
3	5350.00	69.4 PK	74.0	-4.6	1.12 V	349	64.00	5.40
4	5350.00	52.5 AV	54.0	-1.5	1.12 V	349	47.10	5.40
5	#10580.00	61.3 PK	74.0	-12.7	1.12 V	299	42.10	19.20
6	#10580.00	47.7 AV	54.0	-6.3	1.12 V	299	28.50	19.20

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) – Pre-Amplifier 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 of the restricted band.

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

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	61.8 PK	74.0	-12.2	1.06 H	354	56.20	5.60
2	5460.00	47.2 AV	54.0	-6.8	1.06 H	354	41.60	5.60
3	#5470.00	62.0 PK	74.0	-12.0	1.07 H	327	56.30	5.70
4	#5470.00	47.0 AV	54.0	-7.0	1.07 H	327	41.30	5.70
5	*5530.00	100.3 PK			1.04 H	354	62.10	38.20
6	*5530.00	91.4 AV			1.04 H	354	53.20	38.20
7	11060.00	60.7 PK	74.0	-13.3	1.05 H	272	41.00	19.70
8	11060.00	47.9 AV	54.0	-6.1	1.05 H	272	28.20	19.70
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	69.2 PK	74.0	-4.8	1.21 V	357	63.60	5.60
2	5460.00	52.8 AV	54.0	-1.2	1.21 V	357	47.20	5.60
3	#5470.00	67.5 PK	74.0	-6.5	1.21 V	354	61.80	5.70
4	#5470.00	50.2 AV	54.0	-3.8	1.21 V	354	44.50	5.70
5	*5530.00	105.7 PK			1.09 V	347	67.50	38.20
6	*5530.00	95.9 AV			1.09 V	347	57.70	38.20
7	11060.00	61.3 PK	74.0	-12.7	1.21 V	310	41.60	19.70
8	11060.00	48.5 AV	54.0	-5.5	1.21 V	310	28.80	19.70

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	A		

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	#5470.00	57.4 PK	74.0	-16.6	1.10 H	23	51.70	5.70
2	#5470.00	45.8 AV	54.0	-8.2	1.10 H	23	40.10	5.70
3	*5690.00	107.3 PK			1.09 H	26	68.80	38.50
4	*5690.00	98.9 AV			1.09 H	26	60.40	38.50
5	#5850.00	58.9 PK	74.0	-15.1	1.36 H	247	52.70	6.20
6	#5850.00	46.3 AV	54.0	-7.7	1.36 H	247	40.10	6.20
7	11380.00	61.2 PK	74.0	-12.8	1.18 H	41	41.30	19.90
8	11380.00	48.6 AV	54.0	-5.4	1.18 H	41	28.70	19.90
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	#5470.00	57.7 PK	74.0	-16.3	1.05 V	63	52.00	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.05 V	63	38.70	5.70
3	*5690.00	110.7 PK			1.00 V	354	72.20	38.50
4	*5690.00	101.5 AV			1.00 V	354	63.00	38.50
5	#5850.00	59.8 PK	74.0	-14.2	1.17 V	44	53.60	6.20
6	#5850.00	47.2 AV	54.0	-6.8	1.17 V	44	41.00	6.20
7	11380.00	63.5 PK	74.0	-10.5	1.10 V	63	43.60	19.90
8	11380.00	49.6 AV	54.0	-4.4	1.10 V	63	29.70	19.90

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) – Pre-Amplifier 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 of the restricted band.

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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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	57.2 PK	74.0	-16.8	1.03 H	3	52.10	5.10
2	5150.00	44.8 AV	54.0	-9.2	1.03 H	3	39.70	5.10
3	*5260.00	107.8 PK			1.00 H	352	69.90	37.90
4	*5260.00	97.2 AV			1.00 H	352	59.30	37.90
5	#10520.00	61.8 PK	74.0	-12.2	1.24 H	261	42.40	19.40
6	#10520.00	48.0 AV	54.0	-6.0	1.24 H	261	28.60	19.40
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	5150.00	61.5 PK	74.0	-12.5	1.00 V	352	56.40	5.10
2	5150.00	49.5 AV	54.0	-4.5	1.00 V	352	44.40	5.10
3	*5260.00	120.0 PK			1.35 V	349	82.10	37.90
4	*5260.00	110.1 AV			1.35 V	349	72.20	37.90
5	#10520.00	62.6 PK	74.0	-11.4	1.12 V	93	43.20	19.40
6	#10520.00	49.0 AV	54.0	-5.0	1.12 V	93	29.60	19.40

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) – Pre-Amplifier 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 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	108.2 PK			1.00 H	338	70.30	37.90
2	*5300.00	97.1 AV			1.00 H	338	59.20	37.90
3	10600.00	61.6 PK	74.0	-12.4	1.27 H	169	42.60	19.00
4	10600.00	48.6 AV	54.0	-5.4	1.27 H	169	29.60	19.00
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	*5300.00	119.6 PK			1.07 V	352	81.70	37.90
2	*5300.00	109.2 AV			1.07 V	352	71.30	37.90
3	10600.00	61.7 PK	74.0	-12.3	1.40 V	331	42.70	19.00
4	10600.00	48.3 AV	54.0	-5.7	1.40 V	331	29.30	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	108.4 PK			1.01 H	335	70.40	38.00
2	*5320.00	97.7 AV			1.01 H	335	59.70	38.00
3	5350.00	57.7 PK	74.0	-16.3	1.00 H	328	52.30	5.40
4	5350.00	44.2 AV	54.0	-9.8	1.00 H	328	38.80	5.40
5	10640.00	61.5 PK	74.0	-12.5	1.10 H	158	42.70	18.80
6	10640.00	48.1 AV	54.0	-5.9	1.10 H	158	29.30	18.80
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	*5320.00	119.0 PK			1.23 V	350	81.00	38.00
2	*5320.00	109.2 AV			1.23 V	350	71.20	38.00
3	5350.00	64.6 PK	74.0	-9.4	1.31 V	353	59.20	5.40
4	5350.00	49.3 AV	54.0	-4.7	1.31 V	353	43.90	5.40
5	10640.00	61.4 PK	74.0	-12.6	1.30 V	303	42.60	18.80
6	10640.00	48.3 AV	54.0	-5.7	1.30 V	303	29.50	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	56.0 PK	74.0	-18.0	1.08 H	311	50.40	5.60
2	5460.00	44.3 AV	54.0	-9.7	1.08 H	311	38.70	5.60
3	#5470.00	58.5 PK	74.0	-15.5	1.03 H	325	52.80	5.70
4	#5470.00	45.2 AV	54.0	-8.8	1.03 H	325	39.50	5.70
5	*5500.00	108.9 PK			1.00 H	346	70.60	38.30
6	*5500.00	97.6 AV			1.00 H	346	59.30	38.30
7	11000.00	62.7 PK	74.0	-11.3	1.41 H	273	42.90	19.80
8	11000.00	49.7 AV	54.0	-4.3	1.41 H	273	29.90	19.80
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	5460.00	61.2 PK	74.0	-12.8	1.18 V	347	55.60	5.60
2	5460.00	48.5 AV	54.0	-5.5	1.18 V	347	42.90	5.60
3	#5470.00	64.3 PK	74.0	-9.7	1.15 V	352	58.60	5.70
4	#5470.00	50.2 AV	54.0	-3.8	1.15 V	352	44.50	5.70
5	*5500.00	120.1 PK			1.27 V	351	81.80	38.30
6	*5500.00	109.9 AV			1.27 V	351	71.60	38.30
7	11000.00	62.9 PK	74.0	-11.1	1.29 V	122	43.10	19.80
8	11000.00	48.5 AV	54.0	-5.5	1.29 V	122	28.70	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	110.0 PK			1.08 H	352	71.70	38.30
2	*5580.00	98.5 AV			1.08 H	352	60.20	38.30
3	11160.00	62.9 PK	74.0	-11.1	1.50 H	283	43.00	19.90
4	11160.00	48.7 AV	54.0	-5.3	1.50 H	283	28.80	19.90
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	*5580.00	118.9 PK			1.13 V	351	80.60	38.30
2	*5580.00	108.6 AV			1.13 V	351	70.30	38.30
3	11160.00	63.2 PK	74.0	-10.8	1.15 V	102	43.30	19.90
4	11160.00	48.9 AV	54.0	-5.1	1.15 V	102	29.00	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	107.8 PK			1.17 H	298	69.30	38.50
2	*5700.00	97.5 AV			1.17 H	298	59.00	38.50
3	#5725.00	58.3 PK	74.0	-15.7	1.20 H	328	52.30	6.00
4	#5725.00	45.7 AV	54.0	-8.3	1.20 H	328	39.70	6.00
5	11400.00	62.3 PK	74.0	-11.7	1.22 H	123	42.30	20.00
6	11400.00	48.4 AV	54.0	-5.6	1.22 H	123	28.40	20.00
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	*5700.00	118.2 PK			1.00 V	354	79.70	38.50
2	*5700.00	107.7 AV			1.00 V	354	69.20	38.50
3	#5725.00	63.2 PK	74.0	-10.8	1.00 V	346	57.20	6.00
4	#5725.00	49.5 AV	54.0	-4.5	1.00 V	346	43.50	6.00
5	11400.00	62.6 PK	74.0	-11.4	1.38 V	246	42.60	20.00
6	11400.00	48.8 AV	54.0	-5.2	1.38 V	246	28.80	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B		

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	#5470.00	56.9 PK	74.0	-17.1	1.18 H	45	51.20	5.70
2	#5470.00	44.7 AV	54.0	-9.3	1.18 H	45	39.00	5.70
3	*5720.00	103.5 PK			1.00 H	1	65.00	38.50
4	*5720.00	94.1 AV			1.00 H	1	55.60	38.50
5	#5850.00	57.2 PK	74.0	-16.8	1.16 H	20	51.00	6.20
6	#5850.00	44.9 AV	54.0	-9.1	1.16 H	20	38.70	6.20
7	11440.00	62.2 PK	74.0	-11.8	1.06 H	38	41.90	20.30
8	11440.00	48.3 AV	54.0	-5.7	1.06 H	38	28.00	20.30
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	#5470.00	56.4 PK	74.0	-17.6	1.15 V	278	50.70	5.70
2	#5470.00	42.0 AV	54.0	-12.0	1.15 V	278	36.30	5.70
3	*5720.00	109.9 PK			1.00 V	351	71.40	38.50
4	*5720.00	100.4 AV			1.00 V	351	61.90	38.50
5	#5850.00	56.9 PK	74.0	-17.1	1.18 V	47	50.70	6.20
6	#5850.00	42.9 AV	54.0	-11.1	1.18 V	47	36.70	6.20
7	11440.00	62.2 PK	74.0	-11.8	1.16 V	20	41.90	20.30
8	11440.00	49.0 AV	54.0	-5.0	1.16 V	20	28.70	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (20MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	55.6 PK	74.0	-18.4	1.28 H	333	50.50	5.10
2	5150.00	43.8 AV	54.0	-10.2	1.28 H	333	38.70	5.10
3	*5260.00	106.9 PK			1.28 H	305	69.00	37.90
4	*5260.00	96.1 AV			1.28 H	305	58.20	37.90
5	#10520.00	60.9 PK	74.0	-13.1	1.27 H	69	41.50	19.40
6	#10520.00	47.8 AV	54.0	-6.2	1.27 H	69	28.40	19.40
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	5150.00	58.6 PK	74.0	-15.4	1.25 V	354	53.50	5.10
2	5150.00	46.1 AV	54.0	-7.9	1.25 V	354	41.00	5.10
3	*5260.00	118.9 PK			1.08 V	353	81.00	37.90
4	*5260.00	108.8 AV			1.08 V	353	70.90	37.90
5	#10520.00	61.3 PK	74.0	-12.7	1.13 V	285	41.90	19.40
6	#10520.00	48.0 AV	54.0	-6.0	1.13 V	285	28.60	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	106.5 PK			1.15 H	303	68.60	37.90
2	*5300.00	96.5 AV			1.15 H	303	58.60	37.90
3	10600.00	61.6 PK	74.0	-12.4	1.33 H	271	42.60	19.00
4	10600.00	47.6 AV	54.0	-6.4	1.33 H	271	28.60	19.00
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	*5300.00	117.9 PK			1.08 V	351	80.00	37.90
2	*5300.00	108.5 AV			1.08 V	351	70.60	37.90
3	10600.00	61.5 PK	74.0	-12.5	1.17 V	359	42.50	19.00
4	10600.00	47.7 AV	54.0	-6.3	1.17 V	359	28.70	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	107.4 PK			1.13 H	302	69.40	38.00
2	*5320.00	96.6 AV			1.13 H	302	58.60	38.00
3	5350.00	58.2 PK	74.0	-15.8	1.15 H	310	52.80	5.40
4	5350.00	44.3 AV	54.0	-9.7	1.15 H	310	38.90	5.40
5	10640.00	60.6 PK	74.0	-13.4	1.02 H	9	41.80	18.80
6	10640.00	46.9 AV	54.0	-7.1	1.02 H	9	28.10	18.80
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	*5320.00	118.1 PK			1.09 V	355	80.10	38.00
2	*5320.00	107.9 AV			1.09 V	355	69.90	38.00
3	5350.00	60.2 PK	74.0	-13.8	1.29 V	333	54.80	5.40
4	5350.00	47.8 AV	54.0	-6.2	1.29 V	333	42.40	5.40
5	10640.00	60.9 PK	74.0	-13.1	1.31 V	275	42.10	18.80
6	10640.00	47.3 AV	54.0	-6.7	1.31 V	275	28.50	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	49.5 PK	74.0	-24.5	1.25 H	292	43.90	5.60
2	5460.00	44.3 AV	54.0	-9.7	1.25 H	292	38.70	5.60
3	#5470.00	57.9 PK	74.0	-16.1	1.30 H	313	52.20	5.70
4	#5470.00	45.4 AV	54.0	-8.6	1.30 H	313	39.70	5.70
5	*5500.00	106.6 PK			1.32 H	300	68.30	38.30
6	*5500.00	96.2 AV			1.32 H	300	57.90	38.30
7	11000.00	61.4 PK	74.0	-12.6	1.04 H	25	41.60	19.80
8	11000.00	47.8 AV	54.0	-6.2	1.04 H	25	28.00	19.80
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	5460.00	60.7 PK	74.0	-13.3	1.28 V	349	55.10	5.60
2	5460.00	46.6 AV	54.0	-7.4	1.28 V	349	41.00	5.60
3	#5470.00	61.8 PK	74.0	-12.2	1.31 V	354	56.10	5.70
4	#5470.00	47.9 AV	54.0	-6.1	1.31 V	354	42.20	5.70
5	*5500.00	119.5 PK			1.14 V	347	81.20	38.30
6	*5500.00	109.0 AV			1.14 V	347	70.70	38.30
7	11000.00	61.7 PK	74.0	-12.3	1.34 V	328	41.90	19.80
8	11000.00	48.4 AV	54.0	-5.6	1.34 V	328	28.60	19.80

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) – Pre-Amplifier 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 116	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	106.4 PK			1.27 H	303	68.10	38.30
2	*5580.00	95.8 AV			1.27 H	303	57.50	38.30
3	11160.00	62.1 PK	74.0	-11.9	1.13 H	189	42.20	19.90
4	11160.00	48.0 AV	54.0	-6.0	1.13 H	189	28.10	19.90
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	*5580.00	119.3 PK			1.03 V	351	81.00	38.30
2	*5580.00	109.0 AV			1.03 V	351	70.70	38.30
3	11160.00	62.6 PK	74.0	-11.4	1.33 V	9	42.70	19.90
4	11160.00	48.7 AV	54.0	-5.3	1.33 V	9	28.80	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	107.2 PK			1.23 H	298	68.70	38.50
2	*5700.00	95.9 AV			1.23 H	298	57.40	38.50
3	#5725.00	58.4 PK	74.0	-15.6	1.14 H	310	52.40	6.00
4	#5725.00	45.3 AV	54.0	-8.7	1.14 H	310	39.30	6.00
5	11400.00	61.7 PK	74.0	-12.3	1.20 H	195	41.70	20.00
6	11400.00	47.8 AV	54.0	-6.2	1.20 H	195	27.80	20.00
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	*5700.00	119.1 PK			1.00 V	353	80.60	38.50
2	*5700.00	109.4 AV			1.00 V	353	70.90	38.50
3	#5725.00	63.9 PK	74.0	-10.1	1.11 V	346	57.90	6.00
4	#5725.00	47.5 AV	54.0	-6.5	1.11 V	346	41.50	6.00
5	11400.00	61.9 PK	74.0	-12.1	1.00 V	255	41.90	20.00
6	11400.00	48.3 AV	54.0	-5.7	1.00 V	255	28.30	20.00

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) – Pre-Amplifier 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 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B		

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	#5470.00	56.1 PK	74.0	-17.9	1.30 H	25	50.40	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.30 H	25	39.70	5.70
3	*5720.00	105.1 PK			1.00 H	319	66.60	38.50
4	*5720.00	94.4 AV			1.00 H	319	55.90	38.50
5	#5850.00	56.9 PK	74.0	-17.1	1.06 H	25	50.70	6.20
6	#5850.00	44.9 AV	54.0	-9.1	1.06 H	25	38.70	6.20
7	11440.00	61.3 PK	74.0	-12.7	1.14 H	156	41.00	20.30
8	11440.00	48.2 AV	54.0	-5.8	1.14 H	156	27.90	20.30
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	#5470.00	57.1 PK	74.0	-16.9	1.33 V	205	51.40	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.33 V	205	39.70	5.70
3	*5720.00	111.5 PK			1.00 V	350	73.00	38.50
4	*5720.00	101.5 AV			1.00 V	350	63.00	38.50
5	#5850.00	57.1 PK	74.0	-16.9	1.07 V	93	50.90	6.20
6	#5850.00	44.6 AV	54.0	-9.4	1.07 V	93	38.40	6.20
7	11440.00	63.2 PK	74.0	-10.8	1.16 V	54	42.90	20.30
8	11440.00	49.3 AV	54.0	-4.7	1.16 V	54	29.00	20.30

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (40MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	57.0 PK	74.0	-17.0	1.18 H	288	51.90	5.10
2	5150.00	43.6 AV	54.0	-10.4	1.18 H	288	38.50	5.10
3	*5270.00	110.3 PK			1.29 H	305	72.40	37.90
4	*5270.00	100.6 AV			1.29 H	305	62.70	37.90
5	#10540.00	60.8 PK	74.0	-13.2	1.58 H	277	41.50	19.30
6	#10540.00	47.2 AV	54.0	-6.8	1.58 H	277	27.90	19.30
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	59.0 PK	74.0	-15.0	1.11 V	346	53.90	5.10
2	5150.00	45.8 AV	54.0	-8.2	1.11 V	346	40.70	5.10
3	*5270.00	122.7 PK			1.21 V	354	84.80	37.90
4	*5270.00	111.9 AV			1.21 V	354	74.00	37.90
5	#10540.00	61.0 PK	74.0	-13.0	1.29 V	311	41.70	19.30
6	#10540.00	47.5 AV	54.0	-6.5	1.29 V	311	28.20	19.30

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	101.1 PK			1.15 H	305	63.20	37.90
2	*5310.00	90.6 AV			1.15 H	305	52.70	37.90
3	5350.00	56.9 PK	74.0	-17.1	1.26 H	316	51.50	5.40
4	5350.00	44.1 AV	54.0	-9.9	1.26 H	316	38.70	5.40
5	#10620.00	61.6 PK	74.0	-12.4	1.06 H	298	42.70	18.90
6	#10620.00	47.9 AV	54.0	-6.1	1.06 H	298	29.00	18.90
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	*5310.00	113.2 PK			1.08 V	352	75.30	37.90
2	*5310.00	103.1 AV			1.08 V	352	65.20	37.90
3	5350.00	72.2 PK	74.0	-1.8	1.07 V	349	66.80	5.40
4	5350.00	50.1 AV	54.0	-3.9	1.07 V	349	44.70	5.40
5	#10620.00	61.9 PK	74.0	-12.1	1.22 V	11	43.00	18.90
6	#10620.00	48.2 AV	54.0	-5.8	1.22 V	11	29.30	18.90

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) – Pre-Amplifier 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 of the restricted band.

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	56.0 PK	74.0	-18.0	1.17 H	301	50.40	5.60
2	5460.00	45.3 AV	54.0	-8.7	1.17 H	301	39.70	5.60
3	#5470.00	57.4 PK	74.0	-16.6	1.22 H	315	51.70	5.70
4	#5470.00	44.2 AV	54.0	-9.8	1.22 H	315	38.50	5.70
5	*5510.00	103.4 PK			1.22 H	303	65.10	38.30
6	*5510.00	92.9 AV			1.22 H	303	54.60	38.30
7	#11020.00	60.9 PK	74.0	-13.1	1.10 H	208	41.00	19.90
8	#11020.00	47.6 AV	54.0	-6.4	1.10 H	208	27.70	19.90
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	5460.00	60.8 PK	74.0	-13.2	1.23 V	346	55.20	5.60
2	5460.00	48.9 AV	54.0	-5.1	1.23 V	346	43.30	5.60
3	#5470.00	72.8 PK	74.0	-1.2	1.27 V	353	67.10	5.70
4	#5470.00	52.9 AV	54.0	-1.1	1.27 V	353	47.20	5.70
5	*5510.00	113.8 PK			1.25 V	355	75.50	38.30
6	*5510.00	104.6 AV			1.25 V	355	66.30	38.30
7	#11020.00	60.8 PK	74.0	-13.2	1.22 V	268	40.90	19.90
8	#11020.00	47.3 AV	54.0	-6.7	1.22 V	268	27.40	19.90

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	104.5 PK			1.26 H	351	66.20	38.30
2	*5550.00	93.6 AV			1.26 H	351	55.30	38.30
3	#11100.00	60.3 PK	74.0	-13.7	1.02 H	121	40.50	19.80
4	#11100.00	47.2 AV	54.0	-6.8	1.02 H	121	27.40	19.80
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	*5550.00	113.9 PK			1.26 V	351	75.60	38.30
2	*5550.00	104.0 AV			1.26 V	351	65.70	38.30
3	#11100.00	60.5 PK	74.0	-13.5	1.36 V	69	40.70	19.80
4	#11100.00	47.5 AV	54.0	-6.5	1.36 V	69	27.70	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	104.9 PK			1.21 H	305	66.50	38.40
2	*5670.00	93.6 AV			1.21 H	305	55.20	38.40
3	#5725.00	56.3 PK	74.0	-17.7	1.13 H	289	50.30	6.00
4	#5725.00	45.2 AV	54.0	-8.8	1.13 H	289	39.20	6.00
5	#11340.00	60.2 PK	74.0	-13.8	1.19 H	111	40.30	19.90
6	#11340.00	47.2 AV	54.0	-6.8	1.19 H	111	27.30	19.90
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	*5670.00	114.1 PK			1.00 V	355	75.70	38.40
2	*5670.00	103.7 AV			1.00 V	355	65.30	38.40
3	#5725.00	59.1 PK	74.0	-14.9	1.00 V	349	53.10	6.00
4	#5725.00	46.3 AV	54.0	-7.7	1.00 V	349	40.30	6.00
5	#11340.00	60.5 PK	74.0	-13.5	1.01 V	19	40.60	19.90
6	#11340.00	47.4 AV	54.0	-6.6	1.01 V	19	27.50	19.90

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B		

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	#5470.00	56.7 PK	74.0	-17.3	1.03 H	33	51.00	5.70
2	#5470.00	44.1 AV	54.0	-9.9	1.03 H	33	38.40	5.70
3	*5710.00	104.9 PK			1.00 H	320	66.40	38.50
4	*5710.00	95.5 AV			1.00 H	320	57.00	38.50
5	#5850.00	58.1 PK	74.0	-15.9	1.44 H	78	51.90	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.44 H	78	39.60	6.20
7	#11420.00	62.7 PK	74.0	-11.3	1.16 H	208	42.60	20.10
8	#11420.00	47.9 AV	54.0	-6.1	1.16 H	208	27.80	20.10
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	#5470.00	56.8 PK	74.0	-17.2	1.17 V	45	51.10	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.17 V	45	39.70	5.70
3	*5710.00	111.9 PK			1.00 V	350	73.40	38.50
4	*5710.00	101.4 AV			1.00 V	350	62.90	38.50
5	#5850.00	57.2 PK	74.0	-16.8	1.30 V	26	51.00	6.20
6	#5850.00	44.8 AV	54.0	-9.2	1.30 V	26	38.60	6.20
7	#11420.00	62.7 PK	74.0	-11.3	1.10 V	21	42.60	20.10
8	#11420.00	49.1 AV	54.0	-4.9	1.10 V	21	29.00	20.10

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) – Pre-Amplifier 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 of the restricted band.

802.11ac(80MHz)

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

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	*5290.00	96.4 PK			1.14 H	301	58.50	37.90
2	*5290.00	87.4 AV			1.14 H	301	49.50	37.90
3	5350.00	57.6 PK	74.0	-16.4	1.22 H	293	52.20	5.40
4	5350.00	44.8 AV	54.0	-9.2	1.22 H	293	39.40	5.40
5	#10580.00	61.5 PK	74.0	-12.5	1.08 H	76	42.30	19.20
6	#10580.00	49.8 AV	54.0	-4.2	1.08 H	76	30.60	19.20
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	*5290.00	108.5 PK			1.08 V	352	70.60	37.90
2	*5290.00	98.2 AV			1.08 V	352	60.30	37.90
3	5350.00	72.4 PK	74.0	-1.6	1.05 V	347	67.00	5.40
4	5350.00	48.4 AV	54.0	-5.6	1.05 V	347	43.00	5.40
5	#10580.00	61.7 PK	74.0	-12.3	1.34 V	233	42.50	19.20
6	#10580.00	49.6 AV	54.0	-4.4	1.34 V	233	30.40	19.20

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) – Pre-Amplifier 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 of the restricted band.

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

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	57.6 PK	74.0	-16.4	1.25 H	300	52.00	5.60
2	5460.00	45.7 AV	54.0	-8.3	1.25 H	300	40.10	5.60
3	#5470.00	58.7 PK	74.0	-15.3	1.19 H	318	53.00	5.70
4	#5470.00	45.2 AV	54.0	-8.8	1.19 H	318	39.50	5.70
5	*5530.00	95.9 PK			1.22 H	304	57.70	38.20
6	*5530.00	85.5 AV			1.22 H	304	47.30	38.20
7	11060.00	60.4 PK	74.0	-13.6	1.29 H	206	40.70	19.70
8	11060.00	48.6 AV	54.0	-5.4	1.29 H	206	28.90	19.70
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	66.7 PK	74.0	-7.3	1.16 V	356	61.10	5.60
2	5460.00	46.4 AV	54.0	-7.6	1.16 V	356	40.80	5.60
3	#5470.00	72.6 PK	74.0	-1.4	1.17 V	348	66.90	5.70
4	#5470.00	47.0 AV	54.0	-7.0	1.17 V	348	41.30	5.70
5	*5530.00	105.6 PK			1.05 V	347	67.40	38.20
6	*5530.00	95.9 AV			1.05 V	347	57.70	38.20
7	11060.00	60.9 PK	74.0	-13.1	1.09 V	277	41.20	19.70
8	11060.00	49.0 AV	54.0	-5.0	1.09 V	277	29.30	19.70

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	B		

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	#5470.00	58.3 PK	74.0	-15.7	1.14 H	15	52.60	5.70
2	#5470.00	43.8 AV	54.0	-10.2	1.14 H	15	38.10	5.70
3	*5690.00	101.9 PK			1.00 H	319	63.40	38.50
4	*5690.00	92.7 AV			1.00 H	319	54.20	38.50
5	#5850.00	57.3 PK	74.0	-16.7	1.33 H	360	51.10	6.20
6	#5850.00	33.8 AV	54.0	-20.2	1.33 H	360	27.60	6.20
7	#11380.00	62.5 PK	74.0	-11.5	1.16 H	58	42.60	19.90
8	#11380.00	48.6 AV	54.0	-5.4	1.16 H	58	28.70	19.90
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	#5470.00	57.6 PK	74.0	-16.4	1.15 V	23	51.90	5.70
2	#5470.00	44.7 AV	54.0	-9.3	1.15 V	23	39.00	5.70
3	*5690.00	108.1 PK			1.00 V	353	69.60	38.50
4	*5690.00	99.1 AV			1.00 V	353	60.60	38.50
5	#5850.00	57.2 PK	74.0	-16.8	1.05 V	22	51.00	6.20
6	#5850.00	45.6 AV	54.0	-8.4	1.05 V	22	39.40	6.20
7	#11380.00	62.5 PK	74.0	-11.5	1.16 V	54	42.60	19.90
8	#11380.00	48.6 AV	54.0	-5.4	1.16 V	54	28.70	19.90

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) – Pre-Amplifier 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 of the restricted band.

802.11a

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	5094.00	57.5 PK	74.0	-16.5	1.16 H	204	52.30	5.20
2	5094.00	46.0 AV	54.0	-8.0	1.16 H	204	40.80	5.20
3	*5260.00	106.4 PK			1.00 H	325	68.50	37.90
4	*5260.00	95.9 AV			1.00 H	325	58.00	37.90
5	#10520.00	60.3 PK	74.0	-13.7	1.23 H	147	40.90	19.40
6	#10520.00	49.9 AV	54.0	-4.1	1.23 H	147	30.50	19.40
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	5094.00	59.6 PK	74.0	-14.4	1.29 V	6	54.40	5.20
2	5094.00	48.7 AV	54.0	-5.3	1.29 V	6	43.50	5.20
3	*5260.00	120.4 PK			1.00 V	360	82.50	37.90
4	*5260.00	110.8 AV			1.00 V	360	72.90	37.90
5	#10520.00	59.9 PK	74.0	-14.1	1.10 V	249	40.50	19.40
6	#10520.00	47.0 AV	54.0	-7.0	1.10 V	249	27.60	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	106.7 PK			1.03 H	18	68.80	37.90
2	*5300.00	95.8 AV			1.03 H	18	57.90	37.90
3	10600.00	62.0 PK	74.0	-12.0	1.43 H	323	43.00	19.00
4	10600.00	48.8 AV	54.0	-5.2	1.43 H	323	29.80	19.00
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	*5300.00	118.8 PK			1.12 V	353	80.90	37.90
2	*5300.00	108.4 AV			1.12 V	353	70.50	37.90
3	10600.00	63.0 PK	74.0	-11.0	1.00 V	121	44.00	19.00
4	10600.00	49.4 AV	54.0	-4.6	1.00 V	121	30.40	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	106.5 PK			1.16 H	12	68.50	38.00
2	*5320.00	96.1 AV			1.16 H	12	58.10	38.00
3	5350.00	57.7 PK	74.0	-16.3	1.14 H	330	52.30	5.40
4	5350.00	45.1 AV	54.0	-8.9	1.14 H	330	39.70	5.40
5	10640.00	61.4 PK	74.0	-12.6	1.37 H	252	42.60	18.80
6	10640.00	48.0 AV	54.0	-6.0	1.37 H	252	29.20	18.80
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	*5320.00	118.7 PK			1.03 V	3	80.70	38.00
2	*5320.00	108.8 AV			1.03 V	3	70.80	38.00
3	5350.00	70.8 PK	74.0	-3.2	1.00 V	1	65.40	5.40
4	5350.00	52.1 AV	54.0	-1.9	1.00 V	1	46.70	5.40
5	10640.00	61.7 PK	74.0	-12.3	1.21 V	79	42.90	18.80
6	10640.00	48.3 AV	54.0	-5.7	1.21 V	79	29.50	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	57.9 PK	74.0	-16.1	1.10 H	342	52.30	5.60
2	5460.00	44.5 AV	54.0	-9.5	1.10 H	342	38.90	5.60
3	#5470.00	61.1 PK	74.0	-12.9	1.11 H	180	55.40	5.70
4	#5470.00	45.8 AV	54.0	-8.2	1.11 H	180	40.10	5.70
5	*5500.00	106.2 PK			1.37 H	27	67.90	38.30
6	*5500.00	95.9 AV			1.37 H	27	57.60	38.30
7	11000.00	62.0 PK	74.0	-12.0	1.29 H	300	42.20	19.80
8	11000.00	49.3 AV	54.0	-4.7	1.29 H	300	29.50	19.80
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	5460.00	62.9 PK	74.0	-11.1	1.09 V	0	57.30	5.60
2	5460.00	48.9 AV	54.0	-5.1	1.09 V	0	43.30	5.60
3	#5470.00	70.4 PK	74.0	-3.6	1.06 V	1	64.70	5.70
4	#5470.00	49.6 AV	54.0	-4.4	1.06 V	1	43.90	5.70
5	*5500.00	118.3 PK			1.08 V	2	80.00	38.30
6	*5500.00	108.4 AV			1.08 V	2	70.10	38.30
7	11000.00	62.5 PK	74.0	-11.5	1.37 V	68	42.70	19.80
8	11000.00	49.6 AV	54.0	-4.4	1.37 V	68	29.80	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	105.9 PK			1.11 H	36	67.60	38.30
2	*5580.00	96.7 AV			1.11 H	36	58.40	38.30
3	11160.00	62.6 PK	74.0	-11.4	1.34 H	94	42.70	19.90
4	11160.00	49.4 AV	54.0	-4.6	1.34 H	94	29.50	19.90
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	*5580.00	119.1 PK			1.16 V	355	80.80	38.30
2	*5580.00	108.8 AV			1.16 V	355	70.50	38.30
3	11160.00	63.0 PK	74.0	-11.0	1.50 V	313	43.10	19.90
4	11160.00	50.2 AV	54.0	-3.8	1.50 V	313	30.30	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	108.2 PK			1.20 H	45	69.70	38.50
2	*5700.00	98.1 AV			1.20 H	45	59.60	38.50
3	#5725.00	58.3 PK	74.0	-15.7	1.19 H	33	52.30	6.00
4	#5725.00	45.6 AV	54.0	-8.4	1.19 H	33	39.60	6.00
5	11400.00	62.3 PK	74.0	-11.7	1.15 H	105	42.30	20.00
6	11400.00	49.1 AV	54.0	-4.9	1.15 H	105	29.10	20.00
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	*5700.00	117.7 PK			1.04 V	11	79.20	38.50
2	*5700.00	108.0 AV			1.04 V	11	69.50	38.50
3	#5725.00	69.1 PK	74.0	-4.9	1.04 V	11	63.10	6.00
4	#5725.00	50.5 AV	54.0	-3.5	1.04 V	11	44.50	6.00
5	11400.00	62.7 PK	74.0	-11.3	1.29 V	245	42.70	20.00
6	11400.00	49.6 AV	54.0	-4.4	1.29 V	245	29.60	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	C		

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	#5470.00	56.9 PK	74.0	-17.1	1.47 H	41	51.20	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.47 H	41	38.70	5.70
3	*5720.00	106.3 PK			1.04 H	29	67.80	38.50
4	*5720.00	95.9 AV			1.04 H	29	57.40	38.50
5	#5850.00	57.4 PK	74.0	-16.6	1.06 H	230	51.20	6.20
6	#5850.00	45.2 AV	54.0	-8.8	1.06 H	230	39.00	6.20
7	#11440.00	61.6 PK	74.0	-12.4	1.12 H	54	41.30	20.30
8	#11440.00	47.8 AV	54.0	-6.2	1.12 H	54	27.50	20.30
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	#5470.00	57.0 PK	74.0	-17.0	1.15 V	20	51.30	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.15 V	20	38.70	5.70
3	*5720.00	110.1 PK			1.01 V	166	71.60	38.50
4	*5720.00	100.6 AV			1.01 V	166	62.10	38.50
5	#5850.00	57.4 PK	74.0	-16.6	1.08 V	360	51.20	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.08 V	360	39.60	6.20
7	#11440.00	63.2 PK	74.0	-10.8	1.02 V	33	42.90	20.30
8	#11440.00	49.0 AV	54.0	-5.0	1.02 V	33	28.70	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (20MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	5098.00	56.8 PK	74.0	-17.2	1.00 H	260	51.60	5.20
2	5098.00	44.5 AV	54.0	-9.5	1.00 H	260	39.30	5.20
3	*5260.00	106.4 PK			1.05 H	20	68.50	37.90
4	*5260.00	95.9 AV			1.05 H	20	58.00	37.90
5	#10520.00	60.9 PK	74.0	-13.1	1.09 H	132	41.50	19.40
6	#10520.00	48.3 AV	54.0	-5.7	1.09 H	132	28.90	19.40
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	5098.00	51.0 PK	74.0	-23.0	1.19 V	6	45.80	5.20
2	5098.00	48.2 AV	54.0	-5.8	1.19 V	6	43.00	5.20
3	*5260.00	119.8 PK			1.00 V	0	81.90	37.90
4	*5260.00	109.8 AV			1.00 V	0	71.90	37.90
5	#10520.00	61.2 PK	74.0	-12.8	1.19 V	332	41.80	19.40
6	#10520.00	48.5 AV	54.0	-5.5	1.19 V	332	29.10	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	106.6 PK			1.00 H	335	68.70	37.90
2	*5300.00	95.8 AV			1.00 H	335	57.90	37.90
3	10600.00	61.6 PK	74.0	-12.4	1.30 H	192	42.60	19.00
4	10600.00	48.2 AV	54.0	-5.8	1.30 H	192	29.20	19.00
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	*5300.00	119.5 PK			1.10 V	4	81.60	37.90
2	*5300.00	109.2 AV			1.10 V	4	71.30	37.90
3	10600.00	61.7 PK	74.0	-12.3	1.19 V	350	42.70	19.00
4	10600.00	48.8 AV	54.0	-5.2	1.19 V	350	29.80	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	107.1 PK			1.02 H	30	69.10	38.00
2	*5320.00	96.3 AV			1.02 H	30	58.30	38.00
3	5350.00	58.4 PK	74.0	-15.6	1.09 H	23	53.00	5.40
4	5350.00	44.9 AV	54.0	-9.1	1.09 H	23	39.50	5.40
5	10640.00	61.6 PK	74.0	-12.4	1.10 H	159	42.80	18.80
6	10640.00	48.1 AV	54.0	-5.9	1.10 H	159	29.30	18.80
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	*5320.00	120.3 PK			1.10 V	3	82.30	38.00
2	*5320.00	109.8 AV			1.10 V	3	71.80	38.00
3	5350.00	72.8 PK	74.0	-1.2	1.10 V	354	67.40	5.40
4	5350.00	51.4 AV	54.0	-2.6	1.10 V	354	46.00	5.40
5	10640.00	62.2 PK	74.0	-11.8	1.25 V	19	43.40	18.80
6	10640.00	49.0 AV	54.0	-5.0	1.25 V	19	30.20	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	57.6 PK	74.0	-16.4	1.00 H	7	52.00	5.60
2	5460.00	44.7 AV	54.0	-9.3	1.00 H	7	39.10	5.60
3	#5470.00	58.2 PK	74.0	-15.8	1.07 H	19	52.50	5.70
4	#5470.00	45.8 AV	54.0	-8.2	1.07 H	19	40.10	5.70
5	*5500.00	104.1 PK			1.11 H	14	65.80	38.30
6	*5500.00	94.3 AV			1.11 H	14	56.00	38.30
7	11000.00	61.9 PK	74.0	-12.1	1.32 H	299	42.10	19.80
8	11000.00	48.5 AV	54.0	-5.5	1.32 H	299	28.70	19.80
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	5460.00	63.4 PK	74.0	-10.6	1.00 V	12	57.80	5.60
2	5460.00	48.1 AV	54.0	-5.9	1.00 V	12	42.50	5.60
3	#5470.00	72.1 PK	74.0	-1.9	1.00 V	14	66.40	5.70
4	#5470.00	50.5 AV	54.0	-3.5	1.00 V	14	44.80	5.70
5	*5500.00	118.2 PK			1.06 V	11	79.90	38.30
6	*5500.00	108.3 AV			1.06 V	11	70.00	38.30
7	11000.00	62.1 PK	74.0	-11.9	1.12 V	111	42.30	19.80
8	11000.00	48.7 AV	54.0	-5.3	1.12 V	111	28.90	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	106.7 PK			1.10 H	39	68.40	38.30
2	*5580.00	96.9 AV			1.10 H	39	58.60	38.30
3	11160.00	61.8 PK	74.0	-12.2	1.23 H	276	41.90	19.90
4	11160.00	48.5 AV	54.0	-5.5	1.23 H	276	28.60	19.90
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	*5580.00	118.1 PK			1.03 V	1	79.80	38.30
2	*5580.00	108.4 AV			1.03 V	1	70.10	38.30
3	11160.00	62.2 PK	74.0	-11.8	1.18 V	101	42.30	19.90
4	11160.00	49.0 AV	54.0	-5.0	1.18 V	101	29.10	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	106.1 PK			1.08 H	35	67.60	38.50
2	*5700.00	96.4 AV			1.08 H	35	57.90	38.50
3	#5725.00	57.5 PK	74.0	-16.5	1.09 H	40	51.50	6.00
4	#5725.00	45.2 AV	54.0	-8.8	1.09 H	40	39.20	6.00
5	11400.00	61.6 PK	74.0	-12.4	1.30 H	140	41.60	20.00
6	11400.00	48.7 AV	54.0	-5.3	1.30 H	140	28.70	20.00
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	*5700.00	117.0 PK			1.00 V	10	78.50	38.50
2	*5700.00	107.0 AV			1.00 V	10	68.50	38.50
3	#5725.00	72.2 PK	74.0	-1.8	1.06 V	0	66.20	6.00
4	#5725.00	50.5 AV	54.0	-3.5	1.06 V	0	44.50	6.00
5	11400.00	61.8 PK	74.0	-12.2	1.03 V	39	41.80	20.00
6	11400.00	49.2 AV	54.0	-4.8	1.03 V	39	29.20	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	C		

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	#5470.00	57.0 PK	74.0	-17.0	1.06 H	74	51.30	5.70
2	#5470.00	44.7 AV	54.0	-9.3	1.06 H	74	39.00	5.70
3	*5720.00	107.0 PK			1.04 H	29	68.50	38.50
4	*5720.00	97.1 AV			1.04 H	29	58.60	38.50
5	#5850.00	58.9 PK	74.0	-15.1	1.33 H	62	52.70	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.33 H	62	39.70	6.20
7	#11440.00	61.9 PK	74.0	-12.1	1.33 H	225	41.60	20.30
8	#11440.00	47.9 AV	54.0	-6.1	1.33 H	225	27.60	20.30
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	#5470.00	56.9 PK	74.0	-17.1	1.04 V	11	51.20	5.70
2	#5470.00	44.2 AV	54.0	-9.8	1.04 V	11	38.50	5.70
3	*5720.00	113.3 PK			1.20 V	175	74.80	38.50
4	*5720.00	103.4 AV			1.20 V	175	64.90	38.50
5	#5850.00	58.5 PK	74.0	-15.5	1.16 V	302	52.30	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.16 V	302	39.70	6.20
7	#11440.00	63.2 PK	74.0	-10.8	1.09 V	64	42.90	20.30
8	#11440.00	48.9 AV	54.0	-5.1	1.09 V	64	28.60	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (40MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	5098.00	57.5 PK	74.0	-16.5	1.13 H	20	52.30	5.20
2	5098.00	44.6 AV	54.0	-9.4	1.13 H	20	39.40	5.20
3	*5270.00	103.2 PK			1.04 H	22	65.30	37.90
4	*5270.00	93.2 AV			1.04 H	22	55.30	37.90
5	#10540.00	61.4 PK	74.0	-12.6	1.07 H	77	42.10	19.30
6	#10540.00	48.5 AV	54.0	-5.5	1.07 H	77	29.20	19.30
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	5098.00	60.5 PK	74.0	-13.5	1.07 V	4	55.30	5.20
2	5098.00	47.6 AV	54.0	-6.4	1.07 V	4	42.40	5.20
3	*5270.00	117.2 PK			1.00 V	1	79.30	37.90
4	*5270.00	107.0 AV			1.00 V	1	69.10	37.90
5	#10540.00	61.6 PK	74.0	-12.4	1.17 V	280	42.30	19.30
6	#10540.00	48.8 AV	54.0	-5.2	1.17 V	280	29.50	19.30

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	101.2 PK			1.27 H	20	63.30	37.90
2	*5310.00	91.5 AV			1.27 H	20	53.60	37.90
3	5350.00	57.9 PK	74.0	-16.1	1.17 H	12	52.50	5.40
4	5350.00	44.6 AV	54.0	-9.4	1.17 H	12	39.20	5.40
5	10620.00	60.8 PK	74.0	-13.2	1.40 H	98	41.90	18.90
6	10620.00	47.3 AV	54.0	-6.7	1.40 H	98	28.40	18.90
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	*5310.00	115.3 PK			1.12 V	358	77.40	37.90
2	*5310.00	105.1 AV			1.12 V	358	67.20	37.90
3	5350.00	73.0 PK	74.0	-1.0	1.11 V	15	67.60	5.40
4	5350.00	51.7 AV	54.0	-2.3	1.11 V	15	46.30	5.40
5	10620.00	61.4 PK	74.0	-12.6	1.20 V	17	42.50	18.90
6	10620.00	47.7 AV	54.0	-6.3	1.20 V	17	28.80	18.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	55.9 PK	74.0	-18.1	1.09 H	9	50.30	5.60
2	5460.00	44.5 AV	54.0	-9.5	1.09 H	9	38.90	5.60
3	#5470.00	57.5 PK	74.0	-16.5	1.15 H	55	51.80	5.70
4	#5470.00	45.4 AV	54.0	-8.6	1.15 H	55	39.70	5.70
5	*5510.00	100.6 PK			1.13 H	42	62.30	38.30
6	*5510.00	91.3 AV			1.13 H	42	53.00	38.30
7	11020.00	61.0 PK	74.0	-13.0	1.26 H	123	41.10	19.90
8	11020.00	48.1 AV	54.0	-5.9	1.26 H	123	28.20	19.90
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	5460.00	64.2 PK	74.0	-9.8	1.11 V	17	58.60	5.60
2	5460.00	45.5 AV	54.0	-8.5	1.11 V	17	39.90	5.60
3	#5470.00	72.2 PK	74.0	-1.8	1.09 V	351	66.50	5.70
4	#5470.00	51.6 AV	54.0	-2.4	1.09 V	351	45.90	5.70
5	*5510.00	111.0 PK			1.07 V	8	72.70	38.30
6	*5510.00	101.2 AV			1.07 V	8	62.90	38.30
7	11020.00	61.3 PK	74.0	-12.7	1.19 V	23	41.40	19.90
8	11020.00	48.4 AV	54.0	-5.6	1.19 V	23	28.50	19.90

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	104.1 PK			1.18 H	27	65.80	38.30
2	*5550.00	94.2 AV			1.18 H	27	55.90	38.30
3	11100.00	61.3 PK	74.0	-12.7	1.29 H	154	41.50	19.80
4	11100.00	48.4 AV	54.0	-5.6	1.29 H	154	28.60	19.80
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	*5550.00	115.7 PK			1.04 V	2	77.40	38.30
2	*5550.00	106.3 AV			1.04 V	2	68.00	38.30
3	11100.00	61.6 PK	74.0	-12.4	1.09 V	36	41.80	19.80
4	11100.00	48.8 AV	54.0	-5.2	1.09 V	36	29.00	19.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	104.5 PK			1.20 H	45	66.10	38.40
2	*5670.00	93.7 AV			1.20 H	45	55.30	38.40
3	#5725.00	58.0 PK	74.0	-16.0	1.12 H	0	52.00	6.00
4	#5725.00	44.5 AV	54.0	-9.5	1.12 H	0	38.50	6.00
5	11340.00	61.2 PK	74.0	-12.8	1.24 H	62	41.30	19.90
6	11340.00	48.5 AV	54.0	-5.5	1.24 H	64	28.60	19.90
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	*5670.00	113.0 PK			1.03 V	19	74.60	38.40
2	*5670.00	103.3 AV			1.03 V	19	64.90	38.40
3	#5725.00	69.7 PK	74.0	-4.3	1.03 V	1	63.70	6.00
4	#5725.00	48.3 AV	54.0	-5.7	1.03 V	1	42.30	6.00
5	11340.00	61.6 PK	74.0	-12.4	1.14 V	350	41.70	19.90
6	11340.00	49.0 AV	54.0	-5.0	1.14 V	350	29.10	19.90

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	C		

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	#5470.00	57.7 PK	74.0	-16.3	1.48 H	56	52.00	5.70
2	#5470.00	45.6 AV	54.0	-8.4	1.48 H	56	39.90	5.70
3	*5710.00	105.1 PK			1.01 H	12	66.60	38.50
4	*5710.00	95.5 AV			1.01 H	12	57.00	38.50
5	#5850.00	57.9 PK	74.0	-16.1	1.09 H	124	51.70	6.20
6	#5850.00	45.6 AV	54.0	-8.4	1.09 H	124	39.40	6.20
7	#11420.00	61.5 PK	74.0	-12.5	1.02 H	165	41.40	20.10
8	#11420.00	47.7 AV	54.0	-6.3	1.02 H	165	27.60	20.10
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	#5470.00	57.7 PK	74.0	-16.3	1.33 V	69	52.00	5.70
2	#5470.00	44.7 AV	54.0	-9.3	1.33 V	69	39.00	5.70
3	*5710.00	112.5 PK			1.01 V	166	74.00	38.50
4	*5710.00	102.9 AV			1.01 V	166	64.40	38.50
5	#5850.00	58.8 PK	74.0	-15.2	1.23 V	68	52.60	6.20
6	#5850.00	46.2 AV	54.0	-7.8	1.23 V	68	40.00	6.20
7	#11420.00	63.0 PK	74.0	-11.0	1.16 V	35	42.90	20.10
8	#11420.00	48.8 AV	54.0	-5.2	1.16 V	35	28.70	20.10

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) – Pre-Amplifier 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 of the restricted band.

802.11ac(80MHz)

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

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	*5290.00	93.0 PK			1.00 H	30	55.10	37.90
2	*5290.00	83.8 AV			1.00 H	30	45.90	37.90
3	5350.00	57.8 PK	74.0	-16.2	1.10 H	74	52.40	5.40
4	5350.00	47.1 AV	54.0	-6.9	1.10 H	74	41.70	5.40
5	#10580.00	61.7 PK	74.0	-12.3	1.18 H	359	42.50	19.20
6	#10580.00	49.1 AV	54.0	-4.9	1.18 H	359	29.90	19.20
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	*5290.00	107.3 PK			1.01 V	357	69.40	37.90
2	*5290.00	97.7 AV			1.01 V	357	59.80	37.90
3	5350.00	69.4 PK	74.0	-4.6	1.07 V	1	64.00	5.40
4	5350.00	53.0 AV	54.0	-1.0	1.07 V	1	47.60	5.40
5	#10580.00	61.9 PK	74.0	-12.1	1.00 V	283	42.70	19.20
6	#10580.00	48.9 AV	54.0	-5.1	1.00 V	283	29.70	19.20

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) – Pre-Amplifier 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 of the restricted band.

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

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	57.0 PK	74.0	-17.0	1.16 H	311	51.40	5.60
2	5460.00	44.9 AV	54.0	-9.1	1.16 H	311	39.30	5.60
3	#5470.00	59.0 PK	74.0	-15.0	1.28 H	80	53.30	5.70
4	#5470.00	45.7 AV	54.0	-8.3	1.28 H	80	40.00	5.70
5	*5530.00	95.9 PK			1.19 H	28	57.70	38.20
6	*5530.00	85.7 AV			1.19 H	28	47.50	38.20
7	11060.00	60.6 PK	74.0	-13.4	1.35 H	240	40.90	19.70
8	11060.00	47.6 AV	54.0	-6.4	1.35 H	240	27.90	19.70
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	64.5 PK	74.0	-9.5	1.07 V	18	58.90	5.60
2	5460.00	49.5 AV	54.0	-4.5	1.07 V	18	43.90	5.60
3	#5470.00	69.4 PK	74.0	-4.6	1.06 V	20	63.70	5.70
4	#5470.00	52.6 AV	54.0	-1.4	1.06 V	20	46.90	5.70
5	*5530.00	107.0 PK			1.06 V	6	68.80	38.20
6	*5530.00	97.9 AV			1.06 V	6	59.70	38.20
7	11060.00	60.9 PK	74.0	-13.1	1.26 V	355	41.20	19.70
8	11060.00	48.0 AV	54.0	-6.0	1.26 V	355	28.30	19.70

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	C		

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	#5470.00	56.7 PK	74.0	-17.3	1.35 H	69	51.00	5.70
2	#5470.00	44.2 AV	54.0	-9.8	1.35 H	69	38.50	5.70
3	*5690.00	102.8 PK			1.00 H	14	64.30	38.50
4	*5690.00	93.5 AV			1.00 H	14	55.00	38.50
5	#5850.00	58.9 PK	74.0	-15.1	1.55 H	62	52.70	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.55 H	62	39.70	6.20
7	#11380.00	62.5 PK	74.0	-11.5	1.18 H	47	42.60	19.90
8	#11380.00	47.6 AV	54.0	-6.4	1.18 H	47	27.70	19.90
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	#5470.00	57.3 PK	74.0	-16.7	1.05 V	44	51.60	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.05 V	44	38.70	5.70
3	*5690.00	109.6 PK			1.00 V	167	71.10	38.50
4	*5690.00	99.9 AV			1.00 V	167	61.40	38.50
5	#5850.00	58.8 PK	74.0	-15.2	1.33 V	309	52.60	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.33 V	309	39.70	6.20
7	#11380.00	62.8 PK	74.0	-11.2	1.16 V	54	42.90	19.90
8	#11380.00	48.9 AV	54.0	-5.1	1.16 V	54	29.00	19.90

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) – Pre-Amplifier 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 of the restricted band.

802.11a

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	5093.00	56.4 PK	74.0	-17.6	1.01 H	140	51.20	5.20
2	5093.00	45.7 AV	54.0	-8.3	1.01 H	140	40.50	5.20
3	5150.00	57.5 PK	74.0	-16.5	1.20 H	194	52.40	5.10
4	5150.00	45.5 AV	54.0	-8.5	1.20 H	194	40.40	5.10
5	*5260.00	106.7 PK			1.00 H	157	68.80	37.90
6	*5260.00	96.0 AV			1.00 H	157	58.10	37.90
7	#10520.00	61.4 PK	74.0	-12.6	1.01 H	89	42.00	19.40
8	#10520.00	48.8 AV	54.0	-5.2	1.01 H	89	29.40	19.40
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	5093.00	60.4 PK	74.0	-13.6	1.00 V	272	55.20	5.20
2	5093.00	48.2 AV	54.0	-5.8	1.00 V	272	43.00	5.20
3	5150.00	58.8 PK	74.0	-15.2	1.00 V	275	53.70	5.10
4	5150.00	45.8 AV	54.0	-8.2	1.00 V	275	40.70	5.10
5	*5260.00	121.0 PK			1.00 V	160	83.10	37.90
6	*5260.00	110.6 AV			1.00 V	160	72.70	37.90
7	#10520.00	62.0 PK	74.0	-12.0	1.06 V	56	42.60	19.40
8	#10520.00	49.5 AV	54.0	-4.5	1.06 V	56	30.10	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	109.0 PK			1.39 H	90	71.10	37.90
2	*5300.00	98.5 AV			1.39 H	90	60.60	37.90
3	10600.00	61.3 PK	74.0	-12.7	1.30 H	255	42.30	19.00
4	10600.00	47.8 AV	54.0	-6.2	1.30 H	255	28.80	19.00
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	*5300.00	118.0 PK			1.00 V	160	80.10	37.90
2	*5300.00	107.4 AV			1.00 V	160	69.50	37.90
3	10600.00	62.1 PK	74.0	-11.9	1.12 V	188	43.10	19.00
4	10600.00	48.6 AV	54.0	-5.4	1.12 V	188	29.60	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	109.8 PK			1.38 H	90	71.80	38.00
2	*5320.00	100.1 AV			1.38 H	90	62.10	38.00
3	5350.00	65.4 PK	74.0	-8.6	1.45 H	89	60.00	5.40
4	5350.00	46.3 AV	54.0	-7.7	1.45 H	89	40.90	5.40
5	10640.00	61.4 PK	74.0	-12.6	1.25 H	195	42.60	18.80
6	10640.00	48.4 AV	54.0	-5.6	1.25 H	195	29.60	18.80
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	*5320.00	120.4 PK			1.08 V	224	82.40	38.00
2	*5320.00	110.5 AV			1.08 V	224	72.50	38.00
3	5350.00	73.0 PK	74.0	-1.0	1.08 V	225	67.60	5.40
4	5350.00	51.8 AV	54.0	-2.2	1.08 V	225	46.40	5.40
5	10640.00	61.7 PK	74.0	-12.3	1.00 V	229	42.90	18.80
6	10640.00	48.8 AV	54.0	-5.2	1.00 V	229	30.00	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	57.3 PK	74.0	-16.7	1.11 H	25	51.70	5.60
2	5460.00	44.1 AV	54.0	-9.9	1.11 H	25	38.50	5.60
3	#5470.00	58.1 PK	74.0	-15.9	1.00 H	20	52.40	5.70
4	#5470.00	46.3 AV	54.0	-7.7	1.00 H	20	40.60	5.70
5	*5500.00	106.9 PK			1.00 H	105	68.60	38.30
6	*5500.00	97.1 AV			1.00 H	105	58.80	38.30
7	11000.00	60.2 PK	74.0	-13.8	1.04 H	22	40.40	19.80
8	11000.00	47.7 AV	54.0	-6.3	1.04 H	22	27.90	19.80
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	5460.00	62.9 PK	74.0	-11.1	1.00 V	290	57.30	5.60
2	5460.00	49.4 AV	54.0	-4.6	1.00 V	290	43.80	5.60
3	#5470.00	72.5 PK	74.0	-1.5	1.00 V	286	66.80	5.70
4	#5470.00	50.9 AV	54.0	-3.1	1.00 V	286	45.20	5.70
5	*5500.00	118.9 PK			1.00 V	273	80.60	38.30
6	*5500.00	109.0 AV			1.00 V	273	70.70	38.30
7	11000.00	60.3 PK	74.0	-13.7	1.08 V	96	40.50	19.80
8	11000.00	47.0 AV	54.0	-7.0	1.08 V	96	27.20	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	108.5 PK			1.29 H	84	70.20	38.30
2	*5580.00	98.1 AV			1.29 H	84	59.80	38.30
3	11160.00	62.0 PK	74.0	-12.0	1.10 H	305	42.10	19.90
4	11160.00	48.0 AV	54.0	-6.0	1.10 H	305	28.10	19.90
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	*5580.00	121.7 PK			1.00 V	48	83.40	38.30
2	*5580.00	111.5 AV			1.00 V	48	73.20	38.30
3	11160.00	61.9 PK	74.0	-12.1	1.10 V	302	42.00	19.90
4	11160.00	48.9 AV	54.0	-5.1	1.10 V	302	29.00	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	104.4 PK			1.00 H	213	65.90	38.50
2	*5700.00	94.1 AV			1.00 H	213	55.60	38.50
3	#5725.00	63.1 PK	74.0	-10.9	1.22 H	19	57.10	6.00
4	#5725.00	44.7 AV	54.0	-9.3	1.22 H	19	38.70	6.00
5	11400.00	61.0 PK	74.0	-13.0	1.23 H	308	41.00	20.00
6	11400.00	48.0 AV	54.0	-6.0	1.23 H	308	28.00	20.00
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	*5700.00	117.0 PK			1.00 V	225	78.50	38.50
2	*5700.00	107.2 AV			1.00 V	225	68.70	38.50
3	#5725.00	72.5 PK	74.0	-1.5	1.00 V	195	66.50	6.00
4	#5725.00	48.3 AV	54.0	-5.7	1.00 V	195	42.30	6.00
5	11400.00	61.6 PK	74.0	-12.4	1.15 V	96	41.60	20.00
6	11400.00	48.4 AV	54.0	-5.6	1.15 V	96	28.40	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	D		

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	#5470.00	57.3 PK	74.0	-16.7	1.22 H	63	51.60	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.22 H	63	38.70	5.70
3	*5720.00	108.1 PK			1.00 H	63	69.60	38.50
4	*5720.00	98.5 AV			1.00 H	63	60.00	38.50
5	#5850.00	58.5 PK	74.0	-15.5	1.07 H	44	52.30	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.07 H	44	39.60	6.20
7	#11440.00	61.8 PK	74.0	-12.2	1.16 H	54	41.50	20.30
8	#11440.00	49.0 AV	54.0	-5.0	1.16 H	54	28.70	20.30
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	#5470.00	59.4 PK	74.0	-14.6	1.06 V	332	53.70	5.70
2	#5470.00	46.4 AV	54.0	-7.6	1.06 V	332	40.70	5.70
3	*5720.00	117.5 PK			1.00 V	291	79.00	38.50
4	*5720.00	107.9 AV			1.00 V	291	69.40	38.50
5	#5850.00	57.8 PK	74.0	-16.2	1.10 V	47	51.60	6.20
6	#5850.00	45.6 AV	54.0	-8.4	1.10 V	47	39.40	6.20
7	#11440.00	63.1 PK	74.0	-10.9	1.15 V	25	42.80	20.30
8	#11440.00	51.5 AV	54.0	-2.5	1.15 V	25	31.20	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (20MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	5105.00	58.1 PK	74.0	-15.9	1.00 H	109	53.00	5.10
2	5105.00	46.1 AV	54.0	-7.9	1.00 H	109	41.00	5.10
3	*5260.00	109.8 PK			1.42 H	89	71.90	37.90
4	*5260.00	99.6 AV			1.42 H	89	61.70	37.90
5	#10520.00	61.6 PK	74.0	-12.4	1.08 H	64	42.20	19.40
6	#10520.00	48.6 AV	54.0	-5.4	1.08 H	64	29.20	19.40
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	5105.00	60.3 PK	74.0	-13.7	1.10 V	288	55.20	5.10
2	5105.00	47.9 AV	54.0	-6.1	1.10 V	288	42.80	5.10
3	*5260.00	120.0 PK			1.08 V	301	82.10	37.90
4	*5260.00	109.7 AV			1.08 V	301	71.80	37.90
5	#10520.00	62.0 PK	74.0	-12.0	1.18 V	355	42.60	19.40
6	#10520.00	49.3 AV	54.0	-4.7	1.18 V	355	29.90	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	108.7 PK			1.42 H	90	70.80	37.90
2	*5300.00	98.8 AV			1.42 H	90	60.90	37.90
3	10600.00	60.9 PK	74.0	-13.1	1.01 H	56	41.90	19.00
4	10600.00	47.7 AV	54.0	-6.3	1.01 H	56	28.70	19.00
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	*5300.00	118.0 PK			1.06 V	304	80.10	37.90
2	*5300.00	107.7 AV			1.06 V	304	69.80	37.90
3	10600.00	61.5 PK	74.0	-12.5	1.21 V	350	42.50	19.00
4	10600.00	48.6 AV	54.0	-5.4	1.21 V	350	29.60	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	108.3 PK			1.38 H	92	70.30	38.00
2	*5320.00	97.8 AV			1.38 H	92	59.80	38.00
3	5350.00	57.7 PK	74.0	-16.3	1.25 H	104	52.30	5.40
4	5350.00	45.6 AV	54.0	-8.4	1.25 H	104	40.20	5.40
5	10640.00	60.6 PK	74.0	-13.4	1.56 H	61	41.80	18.80
6	10640.00	47.3 AV	54.0	-6.7	1.56 H	61	28.50	18.80
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	*5320.00	116.1 PK			1.06 V	304	78.10	38.00
2	*5320.00	105.5 AV			1.06 V	304	67.50	38.00
3	5350.00	72.3 PK	74.0	-1.7	1.06 V	347	66.90	5.40
4	5350.00	49.5 AV	54.0	-4.5	1.06 V	347	44.10	5.40
5	10600.00	61.5 PK	74.0	-12.5	1.21 V	350	42.50	19.00
6	10600.00	48.6 AV	54.0	-5.4	1.21 V	350	29.60	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	57.0 PK	74.0	-17.0	1.10 H	240	51.40	5.60
2	5460.00	45.3 AV	54.0	-8.7	1.10 H	240	39.70	5.60
3	#5470.00	57.2 PK	74.0	-16.8	1.07 H	236	51.50	5.70
4	#5470.00	46.0 AV	54.0	-8.0	1.07 H	236	40.30	5.70
5	*5500.00	107.0 PK			1.00 H	103	68.70	38.30
6	*5500.00	97.1 AV			1.00 H	103	58.80	38.30
7	11000.00	61.1 PK	74.0	-12.9	1.02 H	69	41.30	19.80
8	11000.00	47.9 AV	54.0	-6.1	1.02 H	69	28.10	19.80
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	5460.00	63.2 PK	74.0	-10.8	1.05 V	290	57.60	5.60
2	5460.00	48.5 AV	54.0	-5.5	1.05 V	290	42.90	5.60
3	#5470.00	72.6 PK	74.0	-1.4	1.00 V	284	66.90	5.70
4	#5470.00	49.8 AV	54.0	-4.2	1.00 V	284	44.10	5.70
5	*5500.00	118.9 PK			1.00 V	285	80.60	38.30
6	*5500.00	109.0 AV			1.00 V	285	70.70	38.30
7	11000.00	61.1 PK	74.0	-12.9	1.10 V	208	41.30	19.80
8	11000.00	48.2 AV	54.0	-5.8	1.10 V	208	28.40	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	107.2 PK			1.00 H	83	68.90	38.30
2	*5580.00	97.2 AV			1.00 H	83	58.90	38.30
3	11160.00	61.1 PK	74.0	-12.9	1.06 H	98	41.20	19.90
4	11160.00	47.9 AV	54.0	-6.1	1.06 H	98	28.00	19.90
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	*5580.00	119.3 PK			1.00 V	275	81.00	38.30
2	*5580.00	109.4 AV			1.00 V	275	71.10	38.30
3	11160.00	61.8 PK	74.0	-12.2	1.20 V	36	41.90	19.90
4	11160.00	48.5 AV	54.0	-5.5	1.20 V	36	28.60	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	101.6 PK			1.00 H	19	63.10	38.50
2	*5700.00	92.1 AV			1.00 H	19	53.60	38.50
3	#5725.00	58.0 PK	74.0	-16.0	1.18 H	69	52.00	6.00
4	#5725.00	45.0 AV	54.0	-9.0	1.18 H	69	39.00	6.00
5	11400.00	61.3 PK	74.0	-12.7	1.30 H	59	41.30	20.00
6	11400.00	48.3 AV	54.0	-5.7	1.30 H	59	28.30	20.00
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	*5700.00	117.2 PK			1.00 V	221	78.70	38.50
2	*5700.00	107.1 AV			1.00 V	221	68.60	38.50
3	#5725.00	72.6 PK	74.0	-1.4	1.07 V	36	66.60	6.00
4	#5725.00	50.0 AV	54.0	-4.0	1.07 V	36	44.00	6.00
5	11400.00	61.2 PK	74.0	-12.8	1.15 V	96	41.20	20.00
6	11400.00	48.1 AV	54.0	-5.9	1.15 V	96	28.10	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	D		

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	*5720.00	107.4 PK			1.16 H	60	68.90	38.50
2	*5720.00	97.4 AV			1.16 H	60	58.90	38.50
3	#5745.00	57.6 PK	74.0	-16.4	1.05 H	41	51.60	6.00
4	#5745.00	44.7 AV	54.0	-9.3	1.05 H	41	38.70	6.00
5	#5850.00	59.8 PK	74.0	-14.2	1.47 H	84	53.60	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.47 H	84	39.70	6.20
7	#11440.00	61.6 PK	74.0	-12.4	1.10 H	258	41.30	20.30
8	#11440.00	48.7 AV	54.0	-5.3	1.10 H	258	28.40	20.30
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	*5720.00	117.5 PK			1.00 V	290	79.00	38.50
2	*5720.00	107.4 AV			1.00 V	290	68.90	38.50
3	#5745.00	57.6 PK	74.0	-16.4	1.04 V	15	51.60	6.00
4	#5745.00	46.3 AV	54.0	-7.7	1.04 V	15	40.30	6.00
5	#5850.00	57.7 PK	74.0	-16.3	1.16 V	58	51.50	6.20
6	#5850.00	45.2 AV	54.0	-8.8	1.16 V	58	39.00	6.20
7	#11440.00	63.0 PK	74.0	-11.0	1.16 V	85	42.70	20.30
8	#11440.00	50.7 AV	54.0	-3.3	1.16 V	85	30.40	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (40MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	5105.00	56.1 PK	74.0	-17.9	1.31 H	105	51.00	5.10
2	5105.00	44.3 AV	54.0	-9.7	1.31 H	105	39.20	5.10
3	*5270.00	105.4 PK			1.29 H	91	67.50	37.90
4	*5270.00	95.5 AV			1.29 H	91	57.60	37.90
5	#10540.00	61.5 PK	74.0	-12.5	1.34 H	55	42.20	19.30
6	#10540.00	47.9 AV	54.0	-6.1	1.34 H	55	28.60	19.30
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	5105.00	58.4 PK	74.0	-15.6	1.13 V	301	53.30	5.10
2	5105.00	46.3 AV	54.0	-7.7	1.13 V	301	41.20	5.10
3	*5270.00	117.4 PK			1.07 V	297	79.50	37.90
4	*5270.00	107.1 AV			1.07 V	297	69.20	37.90
5	#10540.00	62.0 PK	74.0	-12.0	1.14 V	354	42.70	19.30
6	#10540.00	48.7 AV	54.0	-5.3	1.14 V	354	29.40	19.30

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	103.3 PK			1.40 H	88	65.40	37.90
2	*5310.00	93.7 AV			1.40 H	88	55.80	37.90
3	5350.00	59.4 PK	74.0	-14.6	1.29 H	96	54.00	5.40
4	5350.00	46.3 AV	54.0	-7.7	1.29 H	96	40.90	5.40
5	10620.00	60.0 PK	74.0	-14.0	1.39 H	74	41.10	18.90
6	10620.00	46.8 AV	54.0	-7.2	1.39 H	74	27.90	18.90
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	*5310.00	114.8 PK			1.06 V	295	76.90	37.90
2	*5310.00	104.3 AV			1.06 V	295	66.40	37.90
3	5350.00	72.6 PK	74.0	-1.4	1.05 V	224	67.20	5.40
4	5350.00	52.2 AV	54.0	-1.8	1.05 V	224	46.80	5.40
5	10620.00	60.2 PK	74.0	-13.8	1.09 V	351	41.30	18.90
6	10620.00	47.1 AV	54.0	-6.9	1.09 V	351	28.20	18.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	57.6 PK	74.0	-16.4	1.11 H	15	52.00	5.60
2	5460.00	45.8 AV	54.0	-8.2	1.11 H	15	40.20	5.60
3	#5470.00	57.6 PK	74.0	-16.4	1.06 H	10	51.90	5.70
4	#5470.00	46.3 AV	54.0	-7.7	1.06 H	10	40.60	5.70
5	*5510.00	98.9 PK			1.42 H	83	60.60	38.30
6	*5510.00	88.8 AV			1.42 H	83	50.50	38.30
7	11020.00	60.9 PK	74.0	-13.1	1.08 H	54	41.00	19.90
8	11020.00	48.3 AV	54.0	-5.7	1.08 H	54	28.40	19.90
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	5460.00	62.4 PK	74.0	-11.6	1.15 V	240	56.80	5.60
2	5460.00	46.8 AV	54.0	-7.2	1.15 V	240	41.20	5.60
3	#5470.00	72.3 PK	74.0	-1.7	1.12 V	238	66.60	5.70
4	#5470.00	51.9 AV	54.0	-2.1	1.12 V	238	46.20	5.70
5	*5510.00	110.1 PK			1.00 V	271	71.80	38.30
6	*5510.00	100.4 AV			1.00 V	271	62.10	38.30
7	11020.00	61.2 PK	74.0	-12.8	1.14 V	85	41.30	19.90
8	11020.00	48.3 AV	54.0	-5.7	1.14 V	85	28.40	19.90

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	104.8 PK			1.00 H	50	66.50	38.30
2	*5550.00	94.3 AV			1.00 H	50	56.00	38.30
3	11100.00	60.4 PK	74.0	-13.6	1.14 H	99	40.60	19.80
4	11100.00	47.2 AV	54.0	-6.8	1.14 H	99	27.40	19.80
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	*5550.00	117.4 PK			1.00 V	273	79.10	38.30
2	*5550.00	108.1 AV			1.00 V	273	69.80	38.30
3	11100.00	61.3 PK	74.0	-12.7	1.05 V	264	41.50	19.80
4	11100.00	48.6 AV	54.0	-5.4	1.05 V	264	28.80	19.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	102.1 PK			1.00 H	18	63.70	38.40
2	*5670.00	91.5 AV			1.00 H	18	53.10	38.40
3	#5725.00	59.7 PK	74.0	-14.3	1.15 H	293	53.70	6.00
4	#5725.00	46.3 AV	54.0	-7.7	1.15 H	293	40.30	6.00
5	11340.00	61.1 PK	74.0	-12.9	1.12 H	305	41.20	19.90
6	11340.00	47.6 AV	54.0	-6.4	1.12 H	305	27.70	19.90
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	*5670.00	117.3 PK			1.08 V	229	78.90	38.40
2	*5670.00	107.2 AV			1.08 V	229	68.80	38.40
3	#5725.00	71.9 PK	74.0	-2.1	1.00 V	211	65.90	6.00
4	#5725.00	50.6 AV	54.0	-3.4	1.00 V	211	44.60	6.00
5	11340.00	61.2 PK	74.0	-12.8	1.06 V	225	41.30	19.90
6	11340.00	48.5 AV	54.0	-5.5	1.06 V	225	28.60	19.90

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	D		

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	#5470.00	58.1 PK	74.0	-15.9	1.05 H	63	52.40	5.70
2	#5470.00	44.7 AV	54.0	-9.3	1.05 H	63	39.00	5.70
3	*5710.00	104.0 PK			1.10 H	66	65.50	38.50
4	*5710.00	94.5 AV			1.10 H	66	56.00	38.50
5	#5850.00	57.9 PK	74.0	-16.1	1.33 H	158	51.70	6.20
6	#5850.00	46.5 AV	54.0	-7.5	1.33 H	158	40.30	6.20
7	#11420.00	61.4 PK	74.0	-12.6	1.16 H	47	41.30	20.10
8	#11420.00	48.5 AV	54.0	-5.5	1.16 H	47	28.40	20.10
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	#5470.00	57.3 PK	74.0	-16.7	1.16 V	45	51.60	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.16 V	45	39.70	5.70
3	*5710.00	115.0 PK			1.00 V	294	76.50	38.50
4	*5710.00	104.8 AV			1.00 V	294	66.30	38.50
5	#5850.00	59.8 PK	74.0	-14.2	1.23 V	96	53.60	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.23 V	96	39.70	6.20
7	#11420.00	62.5 PK	74.0	-11.5	1.06 V	85	42.40	20.10
8	#11420.00	48.8 AV	54.0	-5.2	1.06 V	85	28.70	20.10

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) – Pre-Amplifier 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 of the restricted band.

802.11ac(80MHz)

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

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	*5290.00	93.8 PK			1.40 H	89	55.90	37.90
2	*5290.00	84.6 AV			1.40 H	89	46.70	37.90
3	5350.00	58.5 PK	74.0	-15.5	1.38 H	101	53.10	5.40
4	5350.00	46.7 AV	54.0	-7.3	1.38 H	101	41.30	5.40
5	#10580.00	60.2 PK	74.0	-13.8	1.31 H	109	41.00	19.20
6	#10580.00	46.9 AV	54.0	-7.1	1.31 H	109	27.70	19.20
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	*5290.00	104.0 PK			1.08 V	227	66.10	37.90
2	*5290.00	94.7 AV			1.08 V	227	56.80	37.90
3	5350.00	71.2 PK	74.0	-2.8	1.08 V	157	65.80	5.40
4	5350.00	52.4 AV	54.0	-1.6	1.08 V	157	47.00	5.40
5	#10580.00	60.5 PK	74.0	-13.5	1.11 V	327	41.30	19.20
6	#10580.00	47.3 AV	54.0	-6.7	1.11 V	327	28.10	19.20

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) – Pre-Amplifier 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 of the restricted band.

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

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	56.0 PK	74.0	-18.0	1.22 H	270	50.40	5.60
2	5460.00	45.9 AV	54.0	-8.1	1.22 H	270	40.30	5.60
3	#5470.00	57.4 PK	74.0	-16.6	1.15 H	98	51.70	5.70
4	#5470.00	46.0 AV	54.0	-8.0	1.15 H	98	40.30	5.70
5	*5530.00	95.0 PK			1.37 H	85	56.80	38.20
6	*5530.00	84.9 AV			1.37 H	85	46.70	38.20
7	11060.00	60.9 PK	74.0	-13.1	1.02 H	55	41.20	19.70
8	11060.00	47.6 AV	54.0	-6.4	1.02 H	55	27.90	19.70
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	70.2 PK	74.0	-3.8	1.00 V	286	64.60	5.60
2	5460.00	52.7 AV	54.0	-1.3	1.00 V	286	47.10	5.60
3	#5470.00	67.9 PK	74.0	-6.1	1.05 V	290	62.20	5.70
4	#5470.00	46.6 AV	54.0	-7.4	1.05 V	290	40.90	5.70
5	*5530.00	106.7 PK			1.00 V	234	68.50	38.20
6	*5530.00	96.6 AV			1.00 V	234	58.40	38.20
7	11060.00	61.2 PK	74.0	-12.8	1.14 V	56	41.50	19.70
8	11060.00	47.8 AV	54.0	-6.2	1.14 V	56	28.10	19.70

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	D		

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	#5470.00	57.7 PK	74.0	-16.3	1.17 H	360	52.00	5.70
2	#5470.00	45.1 AV	54.0	-8.9	1.17 H	360	39.40	5.70
3	*5690.00	101.0 PK			1.00 H	55	62.50	38.50
4	*5690.00	91.7 AV			1.00 H	55	53.20	38.50
5	#5850.00	58.9 PK	74.0	-15.1	1.33 H	204	52.70	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.33 H	204	39.60	6.20
7	#11380.00	61.0 PK	74.0	-13.0	1.03 H	66	41.10	19.90
8	#11380.00	47.6 AV	54.0	-6.4	1.03 H	66	27.70	19.90
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	#5470.00	57.4 PK	74.0	-16.6	1.15 V	47	51.70	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.15 V	47	39.70	5.70
3	*5690.00	111.5 PK			1.00 V	294	73.00	38.50
4	*5690.00	102.3 AV			1.00 V	294	63.80	38.50
5	#5850.00	59.8 PK	74.0	-14.2	1.05 V	89	53.60	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.05 V	89	39.70	6.20
7	#11380.00	62.8 PK	74.0	-11.2	1.16 V	23	42.90	19.90
8	#11380.00	48.9 AV	54.0	-5.1	1.16 V	23	29.00	19.90

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) – Pre-Amplifier 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 of the restricted band.

802.11a

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	56.0 PK	74.0	-18.0	1.05 H	9	53.60	2.40
2	5150.00	45.0 AV	54.0	-9.0	1.05 H	9	42.60	2.40
3	*5260.00	105.2 PK			1.22 H	89	65.60	39.60
4	*5260.00	94.5 AV			1.22 H	89	54.90	39.60
5	#5575.00	57.6 PK	74.0	-16.4	1.06 H	67	54.60	3.00
6	#5575.00	45.5 AV	54.0	-8.5	1.06 H	67	42.50	3.00
7	#10520.00	60.7 PK	74.0	-13.3	1.93 H	37	45.20	15.50
8	#10520.00	48.1 AV	54.0	-5.9	1.93 H	37	32.60	15.50
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	5150.00	59.3 PK	74.0	-14.7	1.00 V	248	56.90	2.40
2	5150.00	47.1 AV	54.0	-6.9	1.00 V	248	44.70	2.40
3	*5260.00	120.2 PK			1.00 V	65	80.60	39.60
4	*5260.00	110.0 AV			1.00 V	65	70.40	39.60
5	#5575.00	61.4 PK	74.0	-12.6	1.01 V	257	58.40	3.00
6	#5575.00	49.5 AV	54.0	-4.5	1.01 V	257	46.50	3.00
7	#10520.00	62.4 PK	74.0	-11.6	1.06 V	67	46.90	15.50
8	#10520.00	50.0 AV	54.0	-4.0	1.06 V	67	34.50	15.50

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	56.6 PK	74.0	-17.4	1.30 H	64	54.20	2.40
2	5150.00	45.0 AV	54.0	-9.0	1.30 H	64	42.60	2.40
3	*5300.00	104.9 PK			1.16 H	85	65.30	39.60
4	*5300.00	94.0 AV			1.16 H	85	54.40	39.60
5	#5613.00	57.7 PK	74.0	-16.3	1.05 H	247	54.70	3.00
6	#5613.00	45.2 AV	54.0	-8.8	1.05 H	247	42.20	3.00
7	10600.00	61.1 PK	74.0	-12.9	1.00 H	119	45.20	15.90
8	10600.00	48.5 AV	54.0	-5.5	1.00 H	119	32.60	15.90
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	5150.00	60.5 PK	74.0	-13.5	1.10 V	248	58.10	2.40
2	5150.00	47.6 AV	54.0	-6.4	1.10 V	248	45.20	2.40
3	*5300.00	119.5 PK			1.00 V	74	79.90	39.60
4	*5300.00	109.1 AV			1.00 V	74	69.50	39.60
5	#5613.00	62.2 PK	74.0	-11.8	1.21 V	256	59.20	3.00
6	#5613.00	49.8 AV	54.0	-4.2	1.21 V	256	46.80	3.00
7	10600.00	63.4 PK	74.0	-10.6	1.63 V	29	47.50	15.90
8	10600.00	49.5 AV	54.0	-4.5	1.63 V	29	33.60	15.90

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) – Pre-Amplifier 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 of the restricted band.

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	103.9 PK			1.01 H	90	64.20	39.70
2	*5320.00	92.7 AV			1.01 H	90	53.00	39.70
3	5350.00	62.8 PK	74.0	-11.2	1.09 H	94	60.20	2.60
4	5350.00	45.2 AV	54.0	-8.8	1.09 H	94	42.60	2.60
5	10640.00	59.5 PK	74.0	-14.5	1.55 H	55	43.60	15.90
6	10640.00	48.5 AV	54.0	-5.5	1.55 H	55	32.60	15.90
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	*5320.00	119.6 PK			1.00 V	60	79.90	39.70
2	*5320.00	108.4 AV			1.00 V	60	68.70	39.70
3	5350.00	68.7 PK	74.0	-5.3	1.00 V	74	66.10	2.60
4	5350.00	51.1 AV	54.0	-2.9	1.00 V	74	48.50	2.60
5	10640.00	62.8 PK	74.0	-11.2	1.89 V	64	46.90	15.90
6	10640.00	49.5 AV	54.0	-4.5	1.89 V	64	33.60	15.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	58.0 PK	74.0	-16.0	1.56 H	64	55.20	2.80
2	5460.00	45.0 AV	54.0	-9.0	1.56 H	64	42.20	2.80
3	#5470.00	66.6 PK	74.0	-7.4	1.56 H	64	63.70	2.90
4	#5470.00	45.5 AV	54.0	-8.5	1.56 H	64	42.60	2.90
5	*5500.00	105.4 PK			1.24 H	85	65.50	39.90
6	*5500.00	94.3 AV			1.24 H	85	54.40	39.90
7	11000.00	60.6 PK	74.0	-13.4	1.52 H	74	43.60	17.00
8	11000.00	48.6 AV	54.0	-5.4	1.52 H	74	31.60	17.00
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	5460.00	63.6 PK	74.0	-10.4	1.00 V	41	60.80	2.80
2	5460.00	47.4 AV	54.0	-6.6	1.00 V	41	44.60	2.80
3	#5470.00	72.7 PK	74.0	-1.3	1.00 V	41	69.80	2.90
4	#5470.00	49.8 AV	54.0	-4.2	1.00 V	41	46.90	2.90
5	*5500.00	122.3 PK			1.28 V	73	82.40	39.90
6	*5500.00	111.5 AV			1.28 V	73	71.60	39.90
7	11000.00	62.8 PK	74.0	-11.2	1.06 V	67	45.80	17.00
8	11000.00	49.6 AV	54.0	-4.4	1.06 V	67	32.60	17.00

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	106.5 PK			1.33 H	90	66.50	40.00
2	*5580.00	95.2 AV			1.33 H	90	55.20	40.00
3	11160.00	62.0 PK	74.0	-12.0	1.05 H	74	45.30	16.70
4	11160.00	49.3 AV	54.0	-4.7	1.05 H	74	32.60	16.70
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	120.9 PK			1.23 V	254	80.90	40.00
2	*5580.00	110.4 AV			1.23 V	254	70.40	40.00
3	11160.00	63.5 PK	74.0	-10.5	1.63 V	315	46.80	16.70
4	11160.00	50.3 AV	54.0	-3.7	1.63 V	315	33.60	16.70

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	103.2 PK			1.28 H	80	63.00	40.20
2	*5700.00	92.8 AV			1.28 H	80	52.60	40.20
3	#5725.00	65.5 PK	74.0	-8.5	1.64 H	120	62.20	3.30
4	#5725.00	45.9 AV	54.0	-8.1	1.64 H	120	42.60	3.30
5	11400.00	60.5 PK	74.0	-13.5	1.00 H	66	44.70	15.80
6	11400.00	47.9 AV	54.0	-6.1	1.00 H	66	32.10	15.80
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	*5700.00	117.2 PK			1.43 V	258	77.00	40.20
2	*5700.00	106.8 AV			1.43 V	258	66.60	40.20
3	#5725.00	71.8 PK	74.0	-2.2	1.39 V	46	68.50	3.30
4	#5725.00	50.2 AV	54.0	-3.8	1.39 V	46	46.90	3.30
5	11400.00	61.4 PK	74.0	-12.6	1.05 V	61	45.60	15.80
6	11400.00	48.4 AV	54.0	-5.6	1.05 V	61	32.60	15.80

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	E		

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	#5470.00	58.3 PK	74.0	-15.7	1.33 H	5	52.60	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.33 H	5	38.70	5.70
3	*5720.00	102.9 PK			1.08 H	74	64.40	38.50
4	*5720.00	92.9 AV			1.08 H	74	54.40	38.50
5	#5850.00	57.3 PK	74.0	-16.7	1.16 H	122	51.10	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.16 H	122	39.70	6.20
7	#11440.00	61.6 PK	74.0	-12.4	1.14 H	126	41.30	20.30
8	#11440.00	48.7 AV	54.0	-5.3	1.14 H	126	28.40	20.30
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	#5470.00	58.3 PK	74.0	-15.7	1.03 V	47	52.60	5.70
2	#5470.00	46.9 AV	54.0	-7.1	1.03 V	47	41.20	5.70
3	*5720.00	114.7 PK			1.38 V	238	76.20	38.50
4	*5720.00	104.2 AV			1.38 V	238	65.70	38.50
5	#5850.00	58.2 PK	74.0	-15.8	1.04 V	78	52.00	6.20
6	#5850.00	46.2 AV	54.0	-7.8	1.04 V	78	40.00	6.20
7	#11440.00	63.0 PK	74.0	-11.0	1.13 V	20	42.70	20.30
8	#11440.00	50.4 AV	54.0	-3.6	1.13 V	20	30.10	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (20MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	56.0 PK	74.0	-18.0	1.51 H	188	53.60	2.40
2	5150.00	44.6 AV	54.0	-9.4	1.51 H	188	42.20	2.40
3	*5260.00	104.8 PK			1.18 H	82	65.20	39.60
4	*5260.00	93.9 AV			1.18 H	82	54.30	39.60
5	#5585.00	56.6 PK	74.0	-17.4	1.04 H	188	53.60	3.00
6	#5585.00	45.2 AV	54.0	-8.8	1.04 H	188	42.20	3.00
7	#10520.00	60.7 PK	74.0	-13.3	1.54 H	199	45.20	15.50
8	#10520.00	46.7 AV	54.0	-7.3	1.54 H	199	31.20	15.50
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	5150.00	59.6 PK	74.0	-14.4	1.05 V	92	57.20	2.40
2	5150.00	46.6 AV	54.0	-7.4	1.05 V	92	44.20	2.40
3	*5260.00	119.1 PK			1.10 V	76	79.50	39.60
4	*5260.00	108.2 AV			1.10 V	76	68.60	39.60
5	#5585.00	61.9 PK	74.0	-12.1	1.05 V	67	58.90	3.00
6	#5585.00	49.6 AV	54.0	-4.4	1.05 V	67	46.60	3.00
7	#10520.00	61.8 PK	74.0	-12.2	1.06 V	68	46.30	15.50
8	#10520.00	48.8 AV	54.0	-5.2	1.06 V	68	33.30	15.50

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	105.4 PK			1.12 H	86	65.80	39.60
2	*5300.00	94.8 AV			1.12 H	86	55.20	39.60
3	10600.00	61.1 PK	74.0	-12.9	1.32 H	229	45.20	15.90
4	10600.00	48.5 AV	54.0	-5.5	1.32 H	229	32.60	15.90
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	*5300.00	120.9 PK			1.00 V	67	81.30	39.60
2	*5300.00	109.7 AV			1.00 V	67	70.10	39.60
3	10600.00	61.1 PK	74.0	-12.9	1.06 V	64	45.20	15.90
4	10600.00	49.5 AV	54.0	-4.5	1.06 V	64	33.60	15.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	104.3 PK			1.00 H	85	64.60	39.70
2	*5320.00	93.4 AV			1.00 H	85	53.70	39.70
3	5350.00	66.1 PK	74.0	-7.9	1.05 H	81	63.50	2.60
4	5350.00	44.8 AV	54.0	-9.2	1.05 H	81	42.20	2.60
5	10640.00	59.6 PK	74.0	-14.4	1.03 H	321	43.70	15.90
6	10640.00	49.1 AV	54.0	-4.9	1.03 H	321	33.20	15.90
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	*5320.00	119.8 PK			1.00 V	64	80.10	39.70
2	*5320.00	109.1 AV			1.00 V	64	69.40	39.70
3	5350.00	72.7 PK	74.0	-1.3	1.00 V	31	70.10	2.60
4	5350.00	49.9 AV	54.0	-4.1	1.00 V	31	47.30	2.60
5	10640.00	61.1 PK	74.0	-12.9	1.00 V	64	45.20	15.90
6	10640.00	49.1 AV	54.0	-4.9	1.00 V	64	33.20	15.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	56.3 PK	74.0	-17.7	1.05 H	61	53.50	2.80
2	5460.00	45.0 AV	54.0	-9.0	1.05 H	61	42.20	2.80
3	#5470.00	61.4 PK	74.0	-12.6	1.05 H	61	58.50	2.90
4	#5470.00	45.2 AV	54.0	-8.8	1.05 H	61	42.30	2.90
5	*5500.00	103.7 PK			1.20 H	89	63.80	39.90
6	*5500.00	92.6 AV			1.20 H	89	52.70	39.90
7	11000.00	60.6 PK	74.0	-13.4	1.00 H	64	43.60	17.00
8	11000.00	49.2 AV	54.0	-4.8	1.00 H	64	32.20	17.00
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	5460.00	61.9 PK	74.0	-12.1	1.26 V	74	59.10	2.80
2	5460.00	46.8 AV	54.0	-7.2	1.26 V	74	44.00	2.80
3	#5470.00	73.0 PK	74.0	-1.0	1.26 V	74	70.10	2.90
4	#5470.00	49.0 AV	54.0	-5.0	1.26 V	74	46.10	2.90
5	*5500.00	118.3 PK			1.09 V	53	78.40	39.90
6	*5500.00	108.1 AV			1.09 V	53	68.20	39.90
7	11000.00	62.6 PK	74.0	-11.4	1.05 V	148	45.60	17.00
8	11000.00	50.2 AV	54.0	-3.8	1.05 V	148	33.20	17.00

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	106.9 PK			1.31 H	91	66.90	40.00
2	*5580.00	95.0 AV			1.31 H	91	55.00	40.00
3	11160.00	61.9 PK	74.0	-12.1	1.00 H	355	45.20	16.70
4	11160.00	49.3 AV	54.0	-4.7	1.00 H	355	32.60	16.70
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	121.8 PK			1.25 V	80	81.80	40.00
2	*5580.00	111.0 AV			1.25 V	80	71.00	40.00
3	11160.00	62.3 PK	74.0	-11.7	1.05 V	84	45.60	16.70
4	11160.00	49.2 AV	54.0	-4.8	1.05 V	84	32.50	16.70

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	102.3 PK			1.27 H	80	62.10	40.20
2	*5700.00	91.9 AV			1.27 H	80	51.70	40.20
3	#5725.00	58.2 PK	74.0	-15.8	1.30 H	22	54.90	3.30
4	#5725.00	45.6 AV	54.0	-8.4	1.30 H	22	42.30	3.30
5	11400.00	59.5 PK	74.0	-14.5	1.89 H	66	43.70	15.80
6	11400.00	48.0 AV	54.0	-6.0	1.89 H	66	32.20	15.80
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	*5700.00	117.5 PK			1.29 V	256	77.30	40.20
2	*5700.00	106.7 AV			1.29 V	256	66.50	40.20
3	#5725.00	73.0 PK	74.0	-1.0	1.30 V	42	69.70	3.30
4	#5725.00	49.2 AV	54.0	-4.8	1.30 V	42	45.90	3.30
5	11400.00	62.3 PK	74.0	-11.7	1.06 V	62	46.50	15.80
6	11400.00	49.4 AV	54.0	-4.6	1.06 V	62	33.60	15.80

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	E		

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	#5470.00	58.0 PK	74.0	-16.0	1.09 H	87	52.30	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.09 H	87	39.70	5.70
3	*5720.00	103.1 PK			1.43 H	69	64.60	38.50
4	*5720.00	93.4 AV			1.43 H	69	54.90	38.50
5	#5850.00	57.2 PK	74.0	-16.8	1.06 H	55	51.00	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.06 H	55	39.70	6.20
7	#11440.00	63.2 PK	74.0	-10.8	1.23 H	69	42.90	20.30
8	#11440.00	49.2 AV	54.0	-4.8	1.23 H	69	28.90	20.30
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	#5470.00	57.8 PK	74.0	-16.2	1.16 V	23	52.10	5.70
2	#5470.00	46.1 AV	54.0	-7.9	1.16 V	23	40.40	5.70
3	*5720.00	113.7 PK			1.39 V	236	75.20	38.50
4	*5720.00	103.1 AV			1.39 V	236	64.60	38.50
5	#5850.00	59.2 PK	74.0	-14.8	1.14 V	11	53.00	6.20
6	#5850.00	47.4 AV	54.0	-6.6	1.14 V	11	41.20	6.20
7	#11440.00	62.8 PK	74.0	-11.2	1.13 V	8	42.50	20.30
8	#11440.00	48.4 AV	54.0	-5.6	1.13 V	8	28.10	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (40MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	56.7 PK	74.0	-17.3	1.48 H	44	54.30	2.40
2	5150.00	44.6 AV	54.0	-9.4	1.48 H	44	42.20	2.40
3	*5270.00	102.6 PK			1.16 H	84	63.00	39.60
4	*5270.00	91.9 AV			1.16 H	84	52.30	39.60
5	#10540.00	60.8 PK	74.0	-13.2	1.00 H	331	45.20	15.60
6	#10540.00	48.8 AV	54.0	-5.2	1.00 H	331	33.20	15.60
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	60.2 PK	74.0	-13.8	1.20 V	51	57.80	2.40
2	5150.00	46.1 AV	54.0	-7.9	1.20 V	51	43.70	2.40
3	*5270.00	116.2 PK			1.00 V	51	76.60	39.60
4	*5270.00	106.0 AV			1.00 V	51	66.40	39.60
5	#10540.00	62.2 PK	74.0	-11.8	1.05 V	64	46.60	15.60
6	#10540.00	48.8 AV	54.0	-5.2	1.05 V	64	33.20	15.60

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	99.3 PK			1.16 H	83	59.70	39.60
2	*5310.00	88.4 AV			1.16 H	83	48.80	39.60
3	5350.00	66.1 PK	74.0	-7.9	1.59 H	98	63.50	2.60
4	5350.00	45.2 AV	54.0	-8.8	1.59 H	98	42.60	2.60
5	10620.00	61.1 PK	74.0	-12.9	1.69 H	95	45.20	15.90
6	10620.00	48.1 AV	54.0	-5.9	1.69 H	95	32.20	15.90
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	*5310.00	114.6 PK			1.00 V	61	75.00	39.60
2	*5310.00	103.7 AV			1.00 V	61	64.10	39.60
3	5350.00	72.8 PK	74.0	-1.2	1.00 V	16	70.20	2.60
4	5350.00	52.2 AV	54.0	-1.8	1.00 V	16	49.60	2.60
5	10620.00	62.4 PK	74.0	-11.6	1.62 V	347	46.50	15.90
6	10620.00	48.4 AV	54.0	-5.6	1.62 V	347	32.50	15.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	56.3 PK	74.0	-17.7	1.02 H	66	53.50	2.80
2	5460.00	44.9 AV	54.0	-9.1	1.02 H	66	42.10	2.80
3	#5470.00	65.1 PK	74.0	-8.9	1.02 H	66	62.20	2.90
4	#5470.00	45.5 AV	54.0	-8.5	1.02 H	66	42.60	2.90
5	*5510.00	97.3 PK			1.22 H	86	57.40	39.90
6	*5510.00	87.0 AV			1.22 H	86	47.10	39.90
7	11020.00	62.3 PK	74.0	-11.7	1.74 H	158	45.30	17.00
8	11020.00	49.6 AV	54.0	-4.4	1.74 H	158	32.60	17.00
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	5460.00	59.9 PK	74.0	-14.1	1.00 V	36	57.10	2.80
2	5460.00	46.2 AV	54.0	-7.8	1.00 V	36	43.40	2.80
3	#5470.00	72.3 PK	74.0	-1.7	1.00 V	36	69.40	2.90
4	#5470.00	52.6 AV	54.0	-1.4	1.00 V	36	49.70	2.90
5	*5510.00	114.1 PK			1.15 V	75	74.20	39.90
6	*5510.00	103.8 AV			1.15 V	75	63.90	39.90
7	11020.00	63.0 PK	74.0	-11.0	1.62 V	84	46.00	17.00
8	11020.00	50.3 AV	54.0	-3.7	1.62 V	84	33.30	17.00

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	102.5 PK			1.17 H	89	62.50	40.00
2	*5550.00	91.8 AV			1.17 H	89	51.80	40.00
3	11100.00	62.0 PK	74.0	-12.0	1.64 H	208	45.30	16.70
4	11100.00	47.9 AV	54.0	-6.1	1.64 H	208	31.20	16.70
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	118.3 PK			1.24 V	256	78.30	40.00
2	*5550.00	107.9 AV			1.24 V	256	67.90	40.00
3	11100.00	62.1 PK	74.0	-11.9	1.06 V	94	45.40	16.70
4	11100.00	49.2 AV	54.0	-4.8	1.06 V	94	32.50	16.70

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	101.5 PK			1.29 H	90	61.30	40.20
2	*5670.00	91.4 AV			1.29 H	90	51.20	40.20
3	#5725.00	47.9 PK	74.0	-26.1	1.08 H	87	44.60	3.30
4	#5725.00	45.5 AV	54.0	-8.5	1.08 H	87	42.20	3.30
5	11340.00	59.6 PK	74.0	-14.4	2.01 H	21	43.50	16.10
6	11340.00	48.2 AV	54.0	-5.8	2.01 H	21	32.10	16.10
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	*5670.00	116.6 PK			1.19 V	255	76.40	40.20
2	*5670.00	106.2 AV			1.19 V	255	66.00	40.20
3	#5725.00	71.5 PK	74.0	-2.5	1.36 V	79	68.20	3.30
4	#5725.00	49.0 AV	54.0	-5.0	1.36 V	79	45.70	3.30
5	11340.00	61.3 PK	74.0	-12.7	1.89 V	47	45.20	16.10
6	11340.00	48.3 AV	54.0	-5.7	1.89 V	47	32.20	16.10

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	E		

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	#5470.00	57.7 PK	74.0	-16.3	1.00 H	122	52.00	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.00 H	122	39.70	5.70
3	*5710.00	103.2 PK			1.00 H	6	64.70	38.50
4	*5710.00	93.8 AV			1.00 H	6	55.30	38.50
5	#5850.00	58.8 PK	74.0	-15.2	1.15 H	201	52.60	6.20
6	#5850.00	45.9 AV	54.0	-8.1	1.15 H	201	39.70	6.20
7	#11420.00	62.1 PK	74.0	-11.9	1.23 H	47	42.00	20.10
8	#11420.00	47.6 AV	54.0	-6.4	1.23 H	47	27.50	20.10
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	#5470.00	58.3 PK	74.0	-15.7	1.16 V	145	52.60	5.70
2	#5470.00	46.9 AV	54.0	-7.1	1.16 V	145	41.20	5.70
3	*5710.00	114.8 PK			1.01 V	238	76.30	38.50
4	*5710.00	104.5 AV			1.01 V	238	66.00	38.50
5	#5850.00	57.8 PK	74.0	-16.2	1.22 V	58	51.60	6.20
6	#5850.00	48.8 AV	54.0	-5.2	1.22 V	58	42.60	6.20
7	#11420.00	62.8 PK	74.0	-11.2	1.16 V	25	42.70	20.10
8	#11420.00	48.7 AV	54.0	-5.3	1.16 V	25	28.60	20.10

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) – Pre-Amplifier 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 of the restricted band.

802.11ac(80MHz)

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

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	*5290.00	92.3 PK			1.15 H	84	52.70	39.60
2	*5290.00	82.2 AV			1.15 H	84	42.60	39.60
3	5350.00	59.5 PK	74.0	-14.5	1.53 H	308	56.90	2.60
4	5350.00	45.2 AV	54.0	-8.8	1.53 H	308	42.60	2.60
5	#10580.00	60.6 PK	74.0	-13.4	1.10 H	119	44.90	15.70
6	#10580.00	47.8 AV	54.0	-6.2	1.10 H	119	32.10	15.70
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	*5290.00	104.7 PK			1.00 V	75	65.10	39.60
2	*5290.00	94.9 AV			1.00 V	75	55.30	39.60
3	5350.00	67.4 PK	74.0	-6.6	1.08 V	74	64.80	2.60
4	5350.00	52.8 AV	54.0	-1.2	1.08 V	74	50.20	2.60
5	#10580.00	61.3 PK	74.0	-12.7	1.51 V	77	45.60	15.70
6	#10580.00	49.2 AV	54.0	-4.8	1.51 V	77	33.50	15.70

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) – Pre-Amplifier 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 of the restricted band.

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

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	60.0 PK	74.0	-14.0	1.77 H	48	57.20	2.80
2	5460.00	45.0 AV	54.0	-9.0	1.77 H	48	42.20	2.80
3	#5470.00	61.5 PK	74.0	-12.5	1.05 H	97	58.60	2.90
4	#5470.00	45.5 AV	54.0	-8.5	1.05 H	97	42.60	2.90
5	*5530.00	92.1 PK			1.00 H	90	52.20	39.90
6	*5530.00	82.0 AV			1.00 H	90	42.10	39.90
7	11060.00	62.0 PK	74.0	-12.0	1.06 H	334	45.20	16.80
8	11060.00	49.0 AV	54.0	-5.0	1.06 H	334	32.20	16.80
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	5460.00	68.0 PK	74.0	-6.0	1.10 V	53	65.20	2.80
2	5460.00	49.5 AV	54.0	-4.5	1.10 V	53	46.70	2.80
3	#5470.00	68.5 PK	74.0	-5.5	1.00 V	14	65.60	2.90
4	#5470.00	52.4 AV	54.0	-1.6	1.00 V	14	49.50	2.90
5	*5530.00	108.2 PK			1.13 V	258	68.30	39.90
6	*5530.00	97.8 AV			1.13 V	258	57.90	39.90
7	11060.00	62.0 PK	74.0	-12.0	1.03 V	62	45.20	16.80
8	11060.00	49.3 AV	54.0	-4.7	1.03 V	62	32.50	16.80

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	E		

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	#5470.00	57.3 PK	74.0	-16.7	1.13 H	26	51.60	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.13 H	26	39.70	5.70
3	*5690.00	100.9 PK			1.00 H	72	62.40	38.50
4	*5690.00	91.9 AV			1.00 H	72	53.40	38.50
5	#5850.00	59.2 PK	74.0	-14.8	1.13 H	62	53.00	6.20
6	#5850.00	46.2 AV	54.0	-7.8	1.13 H	62	40.00	6.20
7	#11380.00	61.1 PK	74.0	-12.9	1.04 H	55	41.20	19.90
8	#11380.00	47.8 AV	54.0	-6.2	1.04 H	55	27.90	19.90
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	#5470.00	58.6 PK	74.0	-15.4	1.16 V	23	52.90	5.70
2	#5470.00	47.3 AV	54.0	-6.7	1.16 V	23	41.60	5.70
3	*5690.00	110.4 PK			1.11 V	237	71.90	38.50
4	*5690.00	100.5 AV			1.11 V	237	62.00	38.50
5	#5850.00	58.1 PK	74.0	-15.9	1.16 V	58	51.90	6.20
6	#5850.00	47.8 AV	54.0	-6.2	1.16 V	58	41.60	6.20
7	#11380.00	62.5 PK	74.0	-11.5	1.18 V	64	42.60	19.90
8	#11380.00	48.9 AV	54.0	-5.1	1.18 V	64	29.00	19.90

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) – Pre-Amplifier 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 of the restricted band.

802.11a

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	58.8 PK	74.0	-15.2	1.11 H	191	53.70	5.10
2	5150.00	48.0 AV	54.0	-6.0	1.11 H	191	42.90	5.10
3	*5260.00	118.8 PK			1.10 H	6	80.90	37.90
4	*5260.00	108.7 AV			1.10 H	6	70.80	37.90
5	#10520.00	60.4 PK	74.0	-13.6	1.10 H	305	41.00	19.40
6	#10520.00	48.6 AV	54.0	-5.4	1.10 H	305	29.20	19.40
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	5150.00	57.4 PK	74.0	-16.6	1.03 V	160	52.30	5.10
2	5150.00	44.2 AV	54.0	-9.8	1.03 V	160	39.10	5.10
3	*5260.00	108.4 PK			1.00 V	18	70.50	37.90
4	*5260.00	98.1 AV			1.00 V	18	60.20	37.90
5	#10520.00	61.0 PK	74.0	-13.0	1.19 V	63	41.60	19.40
6	#10520.00	47.8 AV	54.0	-6.2	1.19 V	63	28.40	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	118.2 PK			1.00 H	5	80.30	37.90
2	*5300.00	108.2 AV			1.00 H	5	70.30	37.90
3	10600.00	61.3 PK	74.0	-12.7	1.24 H	201	42.30	19.00
4	10600.00	48.4 AV	54.0	-5.6	1.24 H	201	29.40	19.00
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	*5300.00	108.8 PK			1.00 V	17	70.90	37.90
2	*5300.00	98.9 AV			1.00 V	17	61.00	37.90
3	10600.00	60.2 PK	74.0	-13.8	1.17 V	45	41.20	19.00
4	10600.00	48.7 AV	54.0	-5.3	1.17 V	45	29.70	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	119.1 PK			1.09 H	3	81.10	38.00
2	*5320.00	108.9 AV			1.09 H	3	70.90	38.00
3	5350.00	71.2 PK	74.0	-2.8	1.19 H	0	65.80	5.40
4	5350.00	49.2 AV	54.0	-4.8	1.19 H	0	43.80	5.40
5	10640.00	60.1 PK	74.0	-13.9	1.15 H	74	41.30	18.80
6	10640.00	49.2 AV	54.0	-4.8	1.15 H	74	30.40	18.80
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	*5320.00	108.4 PK			1.00 V	16	70.40	38.00
2	*5320.00	98.1 AV			1.00 V	16	60.10	38.00
3	5350.00	61.0 PK	74.0	-13.0	1.04 V	66	55.60	5.40
4	5350.00	48.4 AV	54.0	-5.6	1.04 V	66	43.00	5.40
5	10640.00	59.7 PK	74.0	-14.3	1.06 V	320	40.90	18.80
6	10640.00	47.5 AV	54.0	-6.5	1.06 V	320	28.70	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	62.8 PK	74.0	-11.2	1.07 H	15	57.20	5.60
2	5460.00	46.5 AV	54.0	-7.5	1.07 H	15	40.90	5.60
3	#5470.00	70.6 PK	74.0	-3.4	1.04 H	10	64.90	5.70
4	#5470.00	49.5 AV	54.0	-4.5	1.04 H	10	43.80	5.70
5	*5500.00	118.4 PK			1.04 H	6	80.10	38.30
6	*5500.00	108.1 AV			1.04 H	6	69.80	38.30
7	11000.00	62.0 PK	74.0	-12.0	1.29 H	341	42.20	19.80
8	11000.00	49.6 AV	54.0	-4.4	1.29 H	341	29.80	19.80
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	5460.00	58.1 PK	74.0	-15.9	1.17 V	71	52.50	5.60
2	5460.00	43.9 AV	54.0	-10.1	1.17 V	71	38.30	5.60
3	#5470.00	62.0 PK	74.0	-12.0	1.15 V	100	56.30	5.70
4	#5470.00	45.4 AV	54.0	-8.6	1.15 V	100	39.70	5.70
5	*5500.00	111.1 PK			1.59 V	19	72.80	38.30
6	*5500.00	100.0 AV			1.59 V	19	61.70	38.30
7	11000.00	62.2 PK	74.0	-11.8	1.59 V	111	42.40	19.80
8	11000.00	49.8 AV	54.0	-4.2	1.59 V	111	30.00	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	119.2 PK			1.03 H	5	80.90	38.30
2	*5580.00	109.0 AV			1.03 H	5	70.70	38.30
3	11160.00	62.7 PK	74.0	-11.3	1.28 H	162	42.80	19.90
4	11160.00	48.7 AV	54.0	-5.3	1.28 H	162	28.80	19.90
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	*5580.00	111.4 PK			1.53 V	23	73.10	38.30
2	*5580.00	100.3 AV			1.53 V	23	62.00	38.30
3	11160.00	62.4 PK	74.0	-11.6	1.18 V	101	42.50	19.90
4	11160.00	48.3 AV	54.0	-5.7	1.18 V	101	28.40	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	118.1 PK			1.01 H	352	79.60	38.50
2	*5700.00	108.0 AV			1.01 H	352	69.50	38.50
3	#5725.00	72.7 PK	74.0	-1.3	1.00 H	177	66.70	6.00
4	#5725.00	52.0 AV	54.0	-2.0	1.00 H	177	46.00	6.00
5	11400.00	63.0 PK	74.0	-11.0	1.10 H	270	43.00	20.00
6	11400.00	50.0 AV	54.0	-4.0	1.10 H	270	30.00	20.00
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	*5700.00	108.7 PK			1.52 V	20	70.20	38.50
2	*5700.00	98.2 AV			1.52 V	20	59.70	38.50
3	#5725.00	63.5 PK	74.0	-10.5	1.18 V	95	57.50	6.00
4	#5725.00	47.0 AV	54.0	-7.0	1.18 V	95	41.00	6.00
5	11400.00	62.6 PK	74.0	-11.4	1.20 V	70	42.60	20.00
6	11400.00	48.7 AV	54.0	-5.3	1.20 V	70	28.70	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	F		

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	#5470.00	57.4 PK	74.0	-16.6	1.09 H	220	51.70	5.70
2	#5470.00	45.4 AV	54.0	-8.6	1.09 H	220	39.70	5.70
3	*5720.00	107.0 PK			1.00 H	41	68.50	38.50
4	*5720.00	97.3 AV			1.00 H	41	58.80	38.50
5	#5850.00	58.8 PK	74.0	-15.2	1.05 H	147	52.60	6.20
6	#5850.00	46.2 AV	54.0	-7.8	1.05 H	147	40.00	6.20
7	#11440.00	62.2 PK	74.0	-11.8	1.23 H	14	41.90	20.30
8	#11440.00	49.0 AV	54.0	-5.0	1.23 H	14	28.70	20.30
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	#5470.00	58.3 PK	74.0	-15.7	1.15 V	23	52.60	5.70
2	#5470.00	45.8 AV	54.0	-8.2	1.15 V	23	40.10	5.70
3	*5720.00	109.9 PK			1.13 V	17	71.40	38.50
4	*5720.00	99.0 AV			1.13 V	17	60.50	38.50
5	#5850.00	58.2 PK	74.0	-15.8	1.28 V	40	52.00	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.28 V	40	39.60	6.20
7	#11440.00	63.0 PK	74.0	-11.0	1.13 V	56	42.70	20.30
8	#11440.00	50.9 AV	54.0	-3.1	1.13 V	56	30.60	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (20MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	58.8 PK	74.0	-15.2	1.25 H	8	53.70	5.10
2	5150.00	47.3 AV	54.0	-6.7	1.25 H	8	42.20	5.10
3	*5260.00	119.1 PK			1.10 H	8	81.20	37.90
4	*5260.00	107.9 AV			1.10 H	8	70.00	37.90
5	#10520.00	61.2 PK	74.0	-12.8	1.19 H	54	41.80	19.40
6	#10520.00	48.1 AV	54.0	-5.9	1.19 H	54	28.70	19.40
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	5150.00	58.3 PK	74.0	-15.7	1.17 V	159	53.20	5.10
2	5150.00	47.4 AV	54.0	-6.6	1.17 V	159	42.30	5.10
3	*5260.00	108.9 PK			1.10 V	13	71.00	37.90
4	*5260.00	98.7 AV			1.10 V	13	60.80	37.90
5	#10520.00	60.7 PK	74.0	-13.3	1.17 V	54	41.30	19.40
6	#10520.00	48.1 AV	54.0	-5.9	1.17 V	54	28.70	19.40

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	118.3 PK			1.07 H	4	80.40	37.90
2	*5300.00	108.2 AV			1.07 H	4	70.30	37.90
3	10600.00	60.8 PK	74.0	-13.2	1.07 H	248	41.80	19.00
4	10600.00	48.7 AV	54.0	-5.3	1.07 H	248	29.70	19.00
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	*5300.00	107.7 PK			1.00 V	10	69.80	37.90
2	*5300.00	97.5 AV			1.00 V	10	59.60	37.90
3	10600.00	61.7 PK	74.0	-12.3	1.19 V	55	42.70	19.00
4	10600.00	49.4 AV	54.0	-4.6	1.19 V	55	30.40	19.00

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	118.0 PK			1.19 H	5	80.00	38.00
2	*5320.00	107.2 AV			1.19 H	5	69.20	38.00
3	5350.00	64.3 PK	74.0	-9.7	1.28 H	9	58.90	5.40
4	5350.00	47.3 AV	54.0	-6.7	1.28 H	9	41.90	5.40
5	10640.00	60.4 PK	74.0	-13.6	1.18 H	52	41.60	18.80
6	10640.00	49.2 AV	54.0	-4.8	1.18 H	52	30.40	18.80
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	*5320.00	107.3 PK			1.09 V	7	69.30	38.00
2	*5320.00	97.8 AV			1.09 V	7	59.80	38.00
3	5350.00	57.3 PK	74.0	-16.7	1.10 V	181	51.90	5.40
4	5350.00	45.8 AV	54.0	-8.2	1.10 V	181	40.40	5.40
5	10640.00	60.1 PK	74.0	-13.9	1.15 V	96	41.30	18.80
6	10640.00	48.5 AV	54.0	-5.5	1.15 V	96	29.70	18.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	62.4 PK	74.0	-11.6	1.02 H	7	56.80	5.60
2	5460.00	46.9 AV	54.0	-7.1	1.02 H	7	41.30	5.60
3	#5470.00	72.9 PK	74.0	-1.1	1.13 H	8	67.20	5.70
4	#5470.00	48.7 AV	54.0	-5.3	1.13 H	8	43.00	5.70
5	*5500.00	117.9 PK			1.03 H	3	79.60	38.30
6	*5500.00	107.5 AV			1.03 H	3	69.20	38.30
7	11000.00	62.0 PK	74.0	-12.0	1.14 H	79	42.20	19.80
8	11000.00	48.4 AV	54.0	-5.6	1.14 H	79	28.60	19.80
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	5460.00	57.2 PK	74.0	-16.8	1.12 V	127	51.60	5.60
2	5460.00	43.8 AV	54.0	-10.2	1.12 V	127	38.20	5.60
3	#5470.00	59.2 PK	74.0	-14.8	1.05 V	174	53.50	5.70
4	#5470.00	44.2 AV	54.0	-9.8	1.05 V	174	38.50	5.70
5	*5500.00	108.6 PK			1.61 V	13	70.30	38.30
6	*5500.00	97.6 AV			1.61 V	13	59.30	38.30
7	11000.00	61.8 PK	74.0	-12.2	1.34 V	192	42.00	19.80
8	11000.00	47.8 AV	54.0	-6.2	1.34 V	192	28.00	19.80

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	843.3 PK			1.01 H	3	805.00	38.30
2	*5580.00	109.1 AV			1.01 H	3	70.80	38.30
3	11160.00	62.5 PK	74.0	-11.5	1.22 H	114	42.60	19.90
4	11160.00	48.6 AV	54.0	-5.4	1.22 H	114	28.70	19.90
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	*5580.00	108.1 PK			1.58 V	19	69.80	38.30
2	*5580.00	97.3 AV			1.58 V	19	59.00	38.30
3	11160.00	62.1 PK	74.0	-11.9	1.48 V	310	42.20	19.90
4	11160.00	47.8 AV	54.0	-6.2	1.48 V	310	27.90	19.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	118.1 PK			1.00 H	349	79.60	38.50
2	*5700.00	108.0 AV			1.00 H	349	69.50	38.50
3	#5725.00	72.7 PK	74.0	-1.3	1.09 H	0	66.70	6.00
4	#5725.00	51.3 AV	54.0	-2.7	1.09 H	0	45.30	6.00
5	11400.00	61.8 PK	74.0	-12.2	1.33 H	322	41.80	20.00
6	11400.00	48.3 AV	54.0	-5.7	1.33 H	322	28.30	20.00
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	*5700.00	109.6 PK			1.09 V	95	71.10	38.50
2	*5700.00	97.9 AV			1.09 V	95	59.40	38.50
3	#5725.00	63.7 PK	74.0	-10.3	1.07 V	76	57.70	6.00
4	#5725.00	46.2 AV	54.0	-7.8	1.07 V	76	40.20	6.00
5	11400.00	62.0 PK	74.0	-12.0	1.53 V	201	42.00	20.00
6	11400.00	48.1 AV	54.0	-5.9	1.53 V	201	28.10	20.00

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 144	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	F		

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	#5470.00	57.3 PK	74.0	-16.7	1.13 H	69	51.60	5.70
2	#5470.00	44.4 AV	54.0	-9.6	1.13 H	69	38.70	5.70
3	*5720.00	104.9 PK			1.00 H	47	66.40	38.50
4	*5720.00	94.8 AV			1.00 H	47	56.30	38.50
5	#5850.00	58.5 PK	74.0	-15.5	1.26 H	224	52.30	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.26 H	224	39.60	6.20
7	#11440.00	61.9 PK	74.0	-12.1	1.04 H	15	41.60	20.30
8	#11440.00	49.3 AV	54.0	-4.7	1.04 H	15	29.00	20.30
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	#5470.00	58.0 PK	74.0	-16.0	1.13 V	25	52.30	5.70
2	#5470.00	45.8 AV	54.0	-8.2	1.13 V	25	40.10	5.70
3	*5720.00	112.9 PK			1.02 V	344	74.40	38.50
4	*5720.00	102.7 AV			1.02 V	344	64.20	38.50
5	#5850.00	57.9 PK	74.0	-16.1	1.33 V	62	51.70	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.33 V	62	39.60	6.20
7	#11440.00	62.9 PK	74.0	-11.1	1.13 V	65	42.60	20.30
8	#11440.00	50.7 AV	54.0	-3.3	1.13 V	65	30.40	20.30

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) – Pre-Amplifier 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 of the restricted band.

802.11n (40MHz)

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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	57.1 PK	74.0	-16.9	1.07 H	19	52.00	5.10
2	5150.00	46.5 AV	54.0	-7.5	1.07 H	19	41.40	5.10
3	*5270.00	115.7 PK			1.20 H	5	77.80	37.90
4	*5270.00	105.7 AV			1.20 H	5	67.80	37.90
5	#10540.00	61.0 PK	74.0	-13.0	1.17 H	45	41.70	19.30
6	#10540.00	49.7 AV	54.0	-4.3	1.17 H	45	30.40	19.30
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	56.9 PK	74.0	-17.1	1.14 V	56	51.80	5.10
2	5150.00	43.8 AV	54.0	-10.2	1.14 V	56	38.70	5.10
3	*5270.00	106.8 PK			1.43 V	91	68.90	37.90
4	*5270.00	96.5 AV			1.43 V	91	58.60	37.90
5	#10540.00	60.6 PK	74.0	-13.4	1.16 V	20	41.30	19.30
6	#10540.00	47.7 AV	54.0	-6.3	1.16 V	20	28.40	19.30

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	115.0 PK			1.18 H	9	77.10	37.90
2	*5310.00	104.6 AV			1.18 H	9	66.70	37.90
3	5350.00	72.1 PK	74.0	-1.9	1.00 H	184	66.70	5.40
4	5350.00	51.0 AV	54.0	-3.0	1.00 H	184	45.60	5.40
5	10620.00	61.0 PK	74.0	-13.0	1.21 H	293	42.10	18.90
6	10620.00	47.9 AV	54.0	-6.1	1.21 H	293	29.00	18.90
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	*5310.00	105.1 PK			1.30 V	79	67.20	37.90
2	*5310.00	95.5 AV			1.30 V	79	57.60	37.90
3	5350.00	65.7 PK	74.0	-8.3	1.39 V	142	60.30	5.40
4	5350.00	46.5 AV	54.0	-7.5	1.39 V	142	41.10	5.40
5	10620.00	60.6 PK	74.0	-13.4	1.28 V	99	41.70	18.90
6	10620.00	47.6 AV	54.0	-6.4	1.28 V	99	28.70	18.90

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	61.1 PK	74.0	-12.9	1.11 H	4	55.50	5.60
2	5460.00	46.1 AV	54.0	-7.9	1.11 H	4	40.50	5.60
3	#5470.00	72.8 PK	74.0	-1.2	1.04 H	11	67.10	5.70
4	#5470.00	52.1 AV	54.0	-1.9	1.04 H	11	46.40	5.70
5	*5510.00	111.8 PK			1.03 H	9	73.50	38.30
6	*5510.00	101.5 AV			1.03 H	9	63.20	38.30
7	11020.00	61.8 PK	74.0	-12.2	1.15 H	334	41.90	19.90
8	11020.00	48.7 AV	54.0	-5.3	1.15 H	334	28.80	19.90
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	5460.00	56.3 PK	74.0	-17.7	1.09 V	96	50.70	5.60
2	5460.00	45.7 AV	54.0	-8.3	1.09 V	96	40.10	5.60
3	#5470.00	61.5 PK	74.0	-12.5	1.12 V	87	55.80	5.70
4	#5470.00	35.6 AV	54.0	-18.4	1.12 V	87	29.90	5.70
5	*5510.00	101.8 PK			1.03 V	70	63.50	38.30
6	*5510.00	91.6 AV			1.03 V	70	53.30	38.30
7	11020.00	62.0 PK	74.0	-12.0	1.50 V	119	42.10	19.90
8	11020.00	48.9 AV	54.0	-5.1	1.50 V	119	29.00	19.90

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) – Pre-Amplifier 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 of 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	116.8 PK			1.12 H	4	78.50	38.30
2	*5550.00	105.8 AV			1.12 H	4	67.50	38.30
3	11100.00	61.4 PK	74.0	-12.6	1.12 H	143	41.60	19.80
4	11100.00	48.3 AV	54.0	-5.7	1.12 H	143	28.50	19.80
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	*5550.00	104.8 PK			1.41 V	118	66.50	38.30
2	*5550.00	94.9 AV			1.41 V	118	56.60	38.30
3	11100.00	61.1 PK	74.0	-12.9	1.44 V	212	41.30	19.80
4	11100.00	47.9 AV	54.0	-6.1	1.44 V	212	28.10	19.80

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) – Pre-Amplifier 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, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	114.6 PK			1.11 H	1	76.20	38.40
2	*5670.00	104.0 AV			1.11 H	1	65.60	38.40
3	#5725.00	72.1 PK	74.0	-1.9	1.00 H	3	66.10	6.00
4	#5725.00	50.7 AV	54.0	-3.3	1.00 H	3	44.70	6.00
5	11340.00	62.3 PK	74.0	-11.7	1.12 H	359	42.40	19.90
6	11340.00	49.2 AV	54.0	-4.8	1.12 H	359	29.30	19.90
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	*5670.00	105.0 PK			1.38 V	123	66.60	38.40
2	*5670.00	94.9 AV			1.38 V	123	56.50	38.40
3	#5725.00	59.3 PK	74.0	-14.7	1.18 V	120	53.30	6.00
4	#5725.00	47.5 AV	54.0	-6.5	1.18 V	120	41.50	6.00
5	11340.00	61.9 PK	74.0	-12.1	1.32 V	300	42.00	19.90
6	11340.00	48.9 AV	54.0	-5.1	1.32 V	300	29.00	19.90

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 142	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	F		

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	#5470.00	57.4 PK	74.0	-16.6	1.04 H	124	51.70	5.70
2	#5470.00	44.3 AV	54.0	-9.7	1.04 H	124	38.60	5.70
3	*5710.00	109.0 PK			1.00 H	40	70.50	38.50
4	*5710.00	97.9 AV			1.00 H	40	59.40	38.50
5	#5850.00	58.9 PK	74.0	-15.1	1.12 H	7	52.70	6.20
6	#5850.00	45.8 AV	54.0	-8.2	1.12 H	7	39.60	6.20
7	#11420.00	61.1 PK	74.0	-12.9	1.16 H	54	41.00	20.10
8	#11420.00	49.0 AV	54.0	-5.0	1.16 H	54	28.90	20.10
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	#5470.00	57.8 PK	74.0	-16.2	1.13 V	69	52.10	5.70
2	#5470.00	46.0 AV	54.0	-8.0	1.13 V	69	40.30	5.70
3	*5710.00	110.6 PK			1.00 V	163	72.10	38.50
4	*5710.00	101.1 AV			1.00 V	163	62.60	38.50
5	#5850.00	59.2 PK	74.0	-14.8	1.06 V	33	53.00	6.20
6	#5850.00	47.2 AV	54.0	-6.8	1.06 V	33	41.00	6.20
7	#11420.00	62.6 PK	74.0	-11.4	1.13 V	69	42.50	20.10
8	#11420.00	50.7 AV	54.0	-3.3	1.13 V	69	30.60	20.10

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) – Pre-Amplifier 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 of the restricted band.

802.11ac(80MHz)

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

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	*5290.00	105.4 PK			1.20 H	6	67.50	37.90
2	*5290.00	96.2 AV			1.20 H	6	58.30	37.90
3	5350.00	68.5 PK	74.0	-5.5	1.08 H	170	63.10	5.40
4	5350.00	52.3 AV	54.0	-1.7	1.08 H	170	46.90	5.40
5	#10580.00	60.9 PK	74.0	-13.1	1.15 H	29	41.70	19.20
6	#10580.00	47.7 AV	54.0	-6.3	1.15 H	29	28.50	19.20
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	*5290.00	97.2 PK			1.30 V	93	59.30	37.90
2	*5290.00	87.1 AV			1.30 V	93	49.20	37.90
3	5350.00	60.6 PK	74.0	-13.4	1.40 V	99	55.20	5.40
4	5350.00	46.7 AV	54.0	-7.3	1.40 V	99	41.30	5.40
5	#10580.00	60.7 PK	74.0	-13.3	1.54 V	139	41.50	19.20
6	#10580.00	47.5 AV	54.0	-6.5	1.54 V	139	28.30	19.20

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) – Pre-Amplifier 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 of the restricted band.

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

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	65.1 PK	74.0	-8.9	1.13 H	2	59.50	5.60
2	5460.00	49.3 AV	54.0	-4.7	1.13 H	2	43.70	5.60
3	#5470.00	70.6 PK	74.0	-3.4	1.14 H	0	64.90	5.70
4	#5470.00	52.2 AV	54.0	-1.8	1.14 H	0	46.50	5.70
5	*5530.00	105.8 PK			1.02 H	0	67.60	38.20
6	*5530.00	96.3 AV			1.02 H	0	58.10	38.20
7	11060.00	61.7 PK	74.0	-12.3	1.12 H	222	42.00	19.70
8	11060.00	48.8 AV	54.0	-5.2	1.12 H	222	29.10	19.70
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	59.7 PK	74.0	-14.3	1.38 V	112	54.10	5.60
2	5460.00	46.0 AV	54.0	-8.0	1.38 V	112	40.40	5.60
3	#5470.00	63.9 PK	74.0	-10.1	1.35 V	79	58.20	5.70
4	#5470.00	47.6 AV	54.0	-6.4	1.35 V	79	41.90	5.70
5	*5530.00	98.2 PK			1.12 V	93	60.00	38.20
6	*5530.00	88.8 AV			1.12 V	93	50.60	38.20
7	11060.00	61.5 PK	74.0	-12.5	1.39 V	350	41.80	19.70
8	11060.00	48.7 AV	54.0	-5.3	1.39 V	350	29.00	19.70

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) – Pre-Amplifier 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 of the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 138	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Chris Lin
TEST MODE	F		

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	#5470.00	58.3 PK	74.0	-15.7	1.03 H	221	52.60	5.70
2	#5470.00	44.3 AV	54.0	-9.7	1.03 H	221	38.60	5.70
3	*5690.00	102.3 PK			1.00 H	83	63.80	38.50
4	*5690.00	92.4 AV			1.00 H	83	53.90	38.50
5	#5850.00	59.8 PK	74.0	-14.2	1.26 H	57	53.60	6.20
6	#5850.00	45.2 AV	54.0	-8.8	1.26 H	57	39.00	6.20
7	#11380.00	61.4 PK	74.0	-12.6	1.10 H	21	41.50	19.90
8	#11380.00	47.6 AV	54.0	-6.4	1.10 H	21	27.70	19.90
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	#5470.00	58.4 PK	74.0	-15.6	1.13 V	69	52.70	5.70
2	#5470.00	45.8 AV	54.0	-8.2	1.13 V	69	40.10	5.70
3	*5690.00	110.0 PK			1.03 V	350	71.50	38.50
4	*5690.00	100.5 AV			1.03 V	350	62.00	38.50
5	#5850.00	58.2 PK	74.0	-15.8	1.11 V	29	52.00	6.20
6	#5850.00	46.1 AV	54.0	-7.9	1.11 V	29	39.90	6.20
7	#11380.00	62.8 PK	74.0	-11.2	1.03 V	26	42.90	19.90
8	#11380.00	49.0 AV	54.0	-5.0	1.03 V	26	29.10	19.90

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) – Pre-Amplifier 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 of the restricted band.

BELOW 1GHz WORST-CASE DATA：

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	A		

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	267.10	38.7 QP	46.0	-7.3	1.01 H	97	52.10	-13.40
2	337.10	35.0 QP	46.0	-11.0	1.01 H	270	46.50	-11.50
3	399.31	31.5 QP	46.0	-14.5	1.01 H	178	41.90	-10.40
4	527.64	36.0 QP	46.0	-10.0	1.25 H	113	43.80	-7.80
5	622.91	37.1 QP	46.0	-8.9	1.25 H	195	42.70	-5.60
6	900.94	33.6 QP	46.0	-12.4	1.25 H	63	34.00	-0.40
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	166.00	39.4 QP	43.5	-4.1	1.00 V	138	53.40	-14.00
2	267.10	33.3 QP	46.0	-12.7	1.49 V	6	46.70	-13.40
3	337.10	34.8 QP	46.0	-11.2	1.24 V	82	46.30	-11.50
4	626.80	34.2 QP	46.0	-11.8	1.49 V	14	39.70	-5.50
5	657.91	31.7 QP	46.0	-14.3	1.00 V	60	36.80	-5.10
6	836.78	36.5 QP	46.0	-9.5	1.24 V	68	38.20	-1.70

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) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	B		

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	57.12	33.4 QP	40.0	-6.6	2.00 H	92	48.00	-14.60
2	99.89	38.5 QP	43.5	-5.0	2.00 H	121	57.30	-18.80
3	142.67	38.1 QP	43.5	-5.4	2.00 H	126	52.40	-14.30
4	212.66	38.8 QP	43.5	-4.7	1.00 H	137	55.10	-16.30
5	232.11	40.9 QP	46.0	-5.1	1.26 H	112	56.60	-15.70
6	500.42	34.0 QP	46.0	-12.0	2.00 H	25	42.30	-8.30
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	53.23	38.4 QP	40.0	-1.6	1.00 V	42	52.80	-14.40
2	97.95	38.1 QP	43.5	-5.4	1.00 V	84	57.10	-19.00
3	224.33	33.8 QP	46.0	-12.2	1.00 V	347	50.10	-16.30
4	354.60	35.2 QP	46.0	-10.8	1.25 V	142	46.50	-11.30
5	500.42	32.6 QP	46.0	-13.4	1.00 V	269	40.90	-8.30
6	862.06	33.5 QP	46.0	-12.5	1.00 V	68	34.70	-1.20

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) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	C		

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	84.34	37.8 QP	40.0	-2.2	2.00 H	156	57.20	-19.40
2	212.66	41.8 QP	43.5	-1.7	1.00 H	190	58.10	-16.30
3	239.88	40.0 QP	46.0	-6.0	1.00 H	110	54.70	-14.70
4	498.47	41.0 QP	46.0	-5.0	1.49 H	126	49.30	-8.30
5	700.68	41.3 QP	46.0	-4.7	1.00 H	123	45.60	-4.30
6	897.05	43.5 QP	46.0	-2.5	1.49 H	135	44.00	-0.50
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	66.84	36.6 QP	40.0	-3.4	1.00 V	305	52.20	-15.60
2	99.89	35.2 QP	43.5	-8.3	1.00 V	52	54.00	-18.80
3	300.16	41.9 QP	46.0	-4.1	1.00 V	234	54.10	-12.20
4	498.47	34.3 QP	46.0	-11.7	2.00 V	163	42.60	-8.30
5	700.68	34.7 QP	46.0	-11.3	2.00 V	216	39.00	-4.30
6	846.50	44.7 QP	46.0	-1.3	1.00 V	23	46.20	-1.50

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) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	D		

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	99.89	32.9 QP	43.5	-10.6	2.00 H	165	51.70	-18.80
2	166.00	35.8 QP	43.5	-7.7	1.51 H	12	49.80	-14.00
3	234.05	33.4 QP	46.0	-12.6	1.25 H	77	48.70	-15.30
4	300.16	39.9 QP	46.0	-6.1	1.01 H	168	52.10	-12.20
5	667.63	32.3 QP	46.0	-13.7	1.01 H	40	37.30	-5.00
6	840.67	33.5 QP	46.0	-12.5	1.51 H	52	35.10	-1.60
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	31.84	38.8 QP	40.0	-1.2	1.00 V	196	54.70	-15.90
2	166.00	30.7 QP	43.5	-12.8	1.00 V	76	44.70	-14.00
3	300.16	31.2 QP	46.0	-14.8	1.50 V	87	43.40	-12.20
4	432.37	28.6 QP	46.0	-17.4	1.24 V	136	38.00	-9.40
5	667.63	30.2 QP	46.0	-15.8	1.24 V	106	35.20	-5.00
6	840.67	32.5 QP	46.0	-13.5	1.24 V	102	34.10	-1.60

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) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	E		

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	99.89	32.6 QP	43.5	-10.9	1.99 H	207	51.40	-18.80
2	228.22	38.6 QP	46.0	-7.4	1.25 H	16	54.90	-16.30
3	298.21	44.5 QP	46.0	-1.5	1.00 H	64	56.80	-12.30
4	335.15	34.1 QP	46.0	-11.9	1.00 H	16	45.70	-11.60
5	500.42	32.6 QP	46.0	-13.4	1.99 H	16	40.90	-8.30
6	**700.68**	**45.9 QP**	**46.0**	**-0.1**	**1.00 H**	**46**	**50.20**	**-4.30**
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	57.12	33.0 QP	40.0	-7.0	1.26 V	11	47.60	-14.60
2	298.21	36.2 QP	46.0	-9.8	1.50 V	16	48.50	-12.30
3	422.65	32.5 QP	46.0	-13.5	1.00 V	354	42.30	-9.80
4	663.74	32.4 QP	46.0	-13.6	1.00 V	89	37.50	-5.10
5	700.68	40.8 QP	46.0	-5.2	1.00 V	105	45.10	-4.30
6	900.94	37.4 QP	46.0	-8.6	1.50 V	100	37.80	-0.40

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) – Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Jones Chang
TEST MODE	F		

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	57.12	36.1 QP	40.0	-3.9	1.99 H	333	50.70	-14.60
2	99.89	40.9 QP	43.5	-2.6	1.99 H	124	59.70	-18.80
3	144.61	37.7 QP	43.5	-5.8	1.99 H	149	51.80	-14.10
4	232.11	37.2 QP	46.0	-8.8	1.00 H	120	52.90	-15.70
5	498.47	36.3 QP	46.0	-9.7	1.50 H	79	44.60	-8.30
6	700.68	43.8 QP	46.0	-2.2	1.00 H	85	48.10	-4.30
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	74.62	34.0 QP	40.0	-6.0	1.00 V	70	51.30	-17.30
2	99.89	34.2 QP	43.5	-9.3	1.00 V	93	53.00	-18.80
3	142.67	32.1 QP	43.5	-11.4	1.00 V	88	46.40	-14.30
4	199.05	32.3 QP	43.5	-11.2	1.00 V	345	48.90	-16.60
5	335.15	32.9 QP	46.0	-13.1	1.49 V	95	44.50	-11.60
6	432.37	32.6 QP	46.0	-13.4	1.00 V	112	42.00	-9.40

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) – Pre-Amplifier 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	100288	Apr. 24, 2014	Apr. 23, 2015
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 23, 2013	Dec. 22, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 08, 2013	Jul. 07, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

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

2. The test was performed in HwaYa Shielded Room 2.

3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

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

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

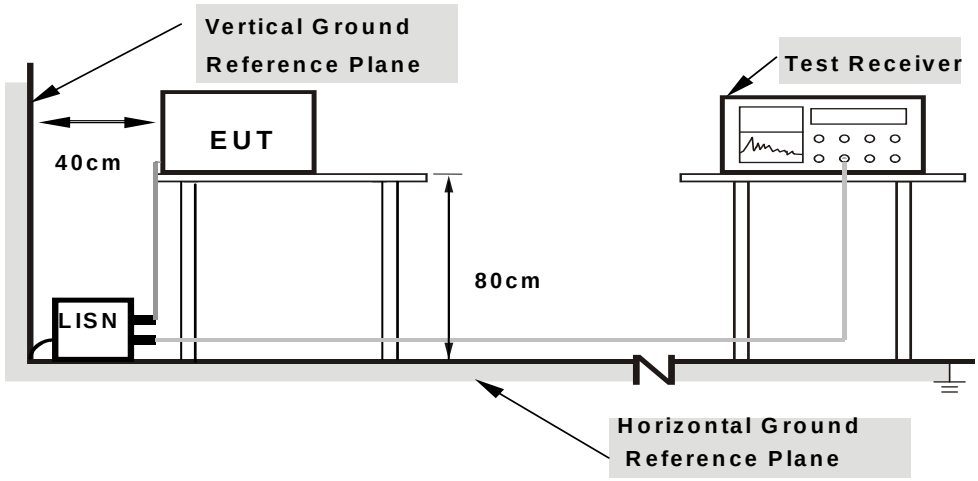
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

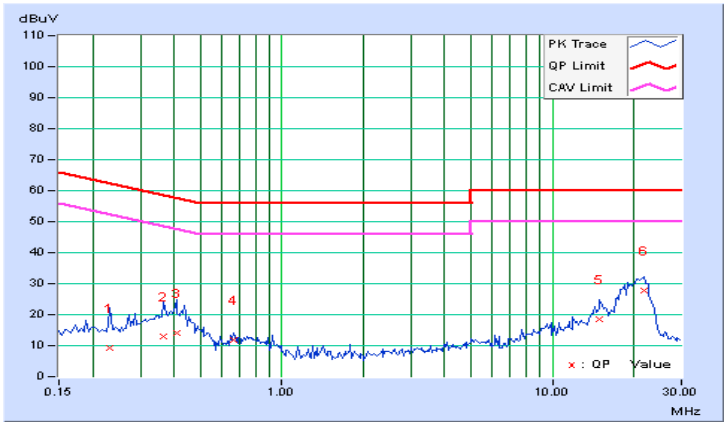
CONDUCTED WORST-CASE DATA：

802.11n (40MHz)

PHASE	Line 1	**6dB BANDWIDTH**	9kHz
TEST MODE	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23203	0.28	8.96	6.02	9.24	6.30	62.38	52.38	-53.13	-46.07
2	0.36484	0.30	12.81	5.82	13.11	6.12	58.62	48.62	-45.51	-42.50
3	0.40781	0.30	13.59	4.64	13.89	4.94	57.69	47.69	-43.80	-42.75
4	0.66172	0.32	11.71	8.59	12.03	8.91	56.00	46.00	-43.97	-37.09
5	14.92578	0.53	17.84	10.67	18.37	11.20	60.00	50.00	-41.63	-38.80
6	21.82031	0.57	27.06	21.64	27.63	22.21	60.00	50.00	-32.37	-27.79

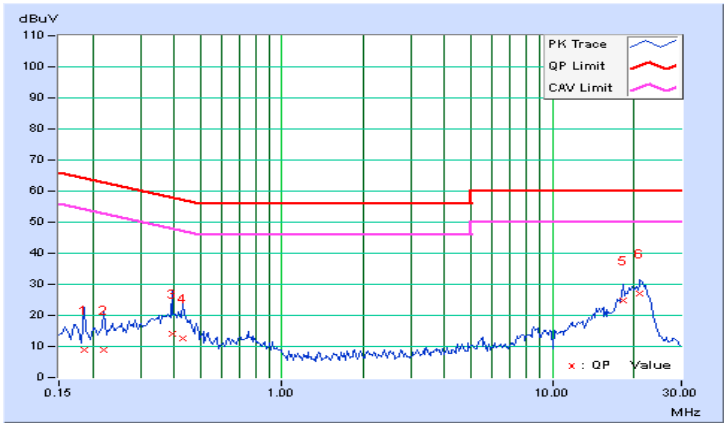
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.28	8.67	5.16	8.95	5.44	64.25	54.25	-55.31	-48.82
2	0.22031	0.28	8.61	5.37	8.89	5.65	62.81	52.81	-53.92	-47.16
3	0.39219	0.30	13.62	5.65	13.92	5.95	58.02	48.02	-44.10	-42.07
4	0.43125	0.30	12.14	5.99	12.44	6.29	57.23	47.23	-44.79	-40.94
5	18.27734	0.61	24.36	17.18	24.97	17.79	60.00	50.00	-35.03	-32.21
6	21.01953	0.62	26.36	21.75	26.98	22.37	60.00	50.00	-33.02	-27.63

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.

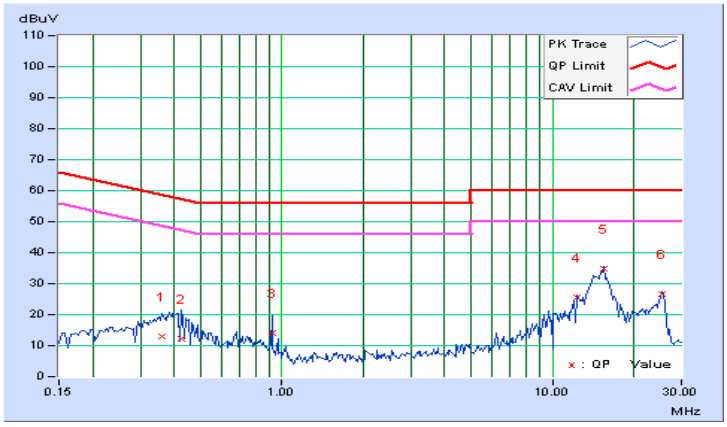


802.11n (40MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.36094	0.30	12.70	5.37	13.00	5.67	58.71	48.71	-45.71	-43.04
2	0.42344	0.30	12.00	7.79	12.30	8.09	57.38	47.38	-45.08	-39.29
3	0.91953	0.33	13.57	10.78	13.90	11.11	56.00	46.00	-42.10	-34.89
4	12.37891	0.51	25.09	23.30	25.60	23.81	60.00	50.00	-34.40	-26.19
5	**15.52344**	**0.54**	**34.18**	**33.62**	**34.72**	**34.16**	**60.00**	**50.00**	**-25.28**	**-15.84**
6	25.32031	0.53	26.11	23.82	26.64	24.35	60.00	50.00	-33.36	-25.65

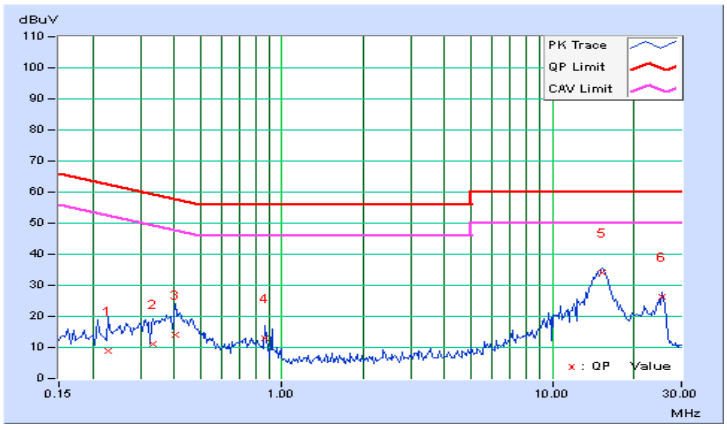
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.22812	0.28	8.63	6.16	8.91	6.44	62.52	52.52	-53.61	-46.08
2	0.33359	0.29	10.66	7.16	10.95	7.45	59.36	49.36	-48.41	-41.91
3	0.40391	0.30	13.66	5.67	13.96	5.97	57.77	47.77	-43.81	-41.80
4	0.86875	0.33	12.58	1.68	12.91	2.01	56.00	46.00	-43.09	-43.99
5	15.32813	0.57	33.60	32.99	34.17	33.56	60.00	50.00	-25.83	-16.44
6	25.57813	0.55	25.75	24.00	26.30	24.55	60.00	50.00	-33.70	-25.45

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.

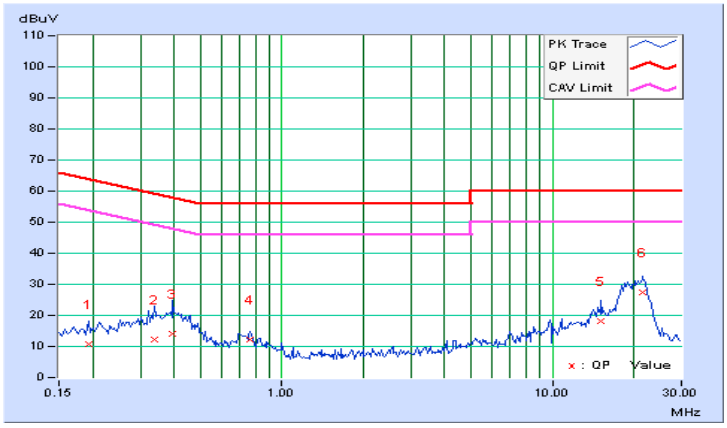


802.11n (40MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	C		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19297	0.28	10.32	4.71	10.60	4.99	63.91	53.91	-53.31	-48.92
2	0.33750	0.29	11.82	6.46	12.11	6.75	59.26	49.26	-47.15	-42.51
3	0.39609	0.30	13.59	5.51	13.89	5.81	57.93	47.93	-44.05	-42.13
4	0.76719	0.32	11.96	9.14	12.28	9.46	56.00	46.00	-43.72	-36.54
5	15.18359	0.53	17.49	9.93	18.02	10.46	60.00	50.00	-41.98	-39.54
6	21.67578	0.57	26.95	21.93	27.52	22.50	60.00	50.00	-32.48	-27.50

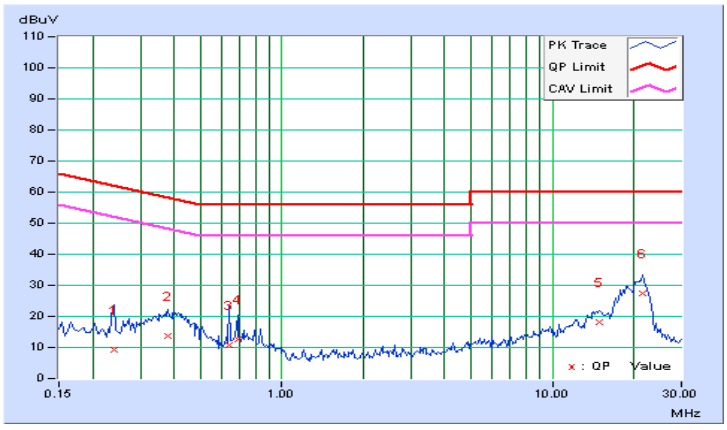
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	C		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.23984	0.28	8.99	1.56	9.27	1.84	62.10	52.10	-52.83	-50.26
2	0.38047	0.30	13.57	5.87	13.87	6.17	58.27	48.27	-44.40	-42.10
3	0.64219	0.32	10.37	9.00	10.69	9.32	56.00	46.00	-45.31	-36.68
4	0.68516	0.32	12.38	9.08	12.70	9.40	56.00	46.00	-43.30	-36.60
5	14.87891	0.56	17.69	10.17	18.25	10.73	60.00	50.00	-41.75	-39.27
6	21.57813	0.62	26.84	21.54	27.46	22.16	60.00	50.00	-32.54	-27.84

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.

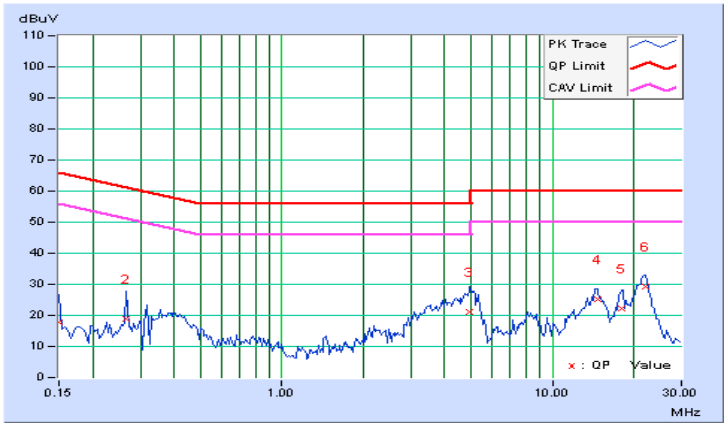


802.11n (40MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	D		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.26	17.54	11.59	17.80	11.85	66.00	56.00	-48.20	-44.15
2	0.26719	0.29	18.47	15.07	18.76	15.36	61.20	51.20	-42.45	-35.85
3	4.95313	0.44	20.67	14.39	21.11	14.83	56.00	46.00	-34.89	-31.17
4	14.63672	0.53	24.49	17.39	25.02	17.92	60.00	50.00	-34.98	-32.08
5	17.98438	0.57	21.60	15.38	22.17	15.95	60.00	50.00	-37.83	-34.05
6	22.10547	0.57	28.60	22.47	29.17	23.04	60.00	50.00	-30.83	-26.96

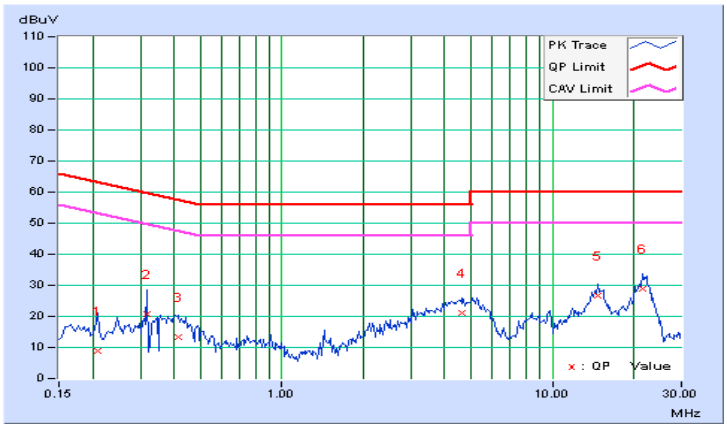
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	D		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20859	0.28	8.74	1.99	9.02	2.27	63.26	53.26	-54.24	-50.99
2	0.31797	0.29	20.43	14.29	20.72	14.58	59.76	49.76	-39.04	-35.18
3	0.41563	0.30	13.08	3.66	13.38	3.96	57.54	47.54	-44.15	-43.57
4	4.64063	0.45	20.54	16.78	20.99	17.23	56.00	46.00	-35.01	-28.77
5	14.71484	0.56	26.23	19.56	26.79	20.12	60.00	50.00	-33.21	-29.88
6	21.62500	0.62	28.39	23.86	29.01	24.48	60.00	50.00	-30.99	-25.52

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.

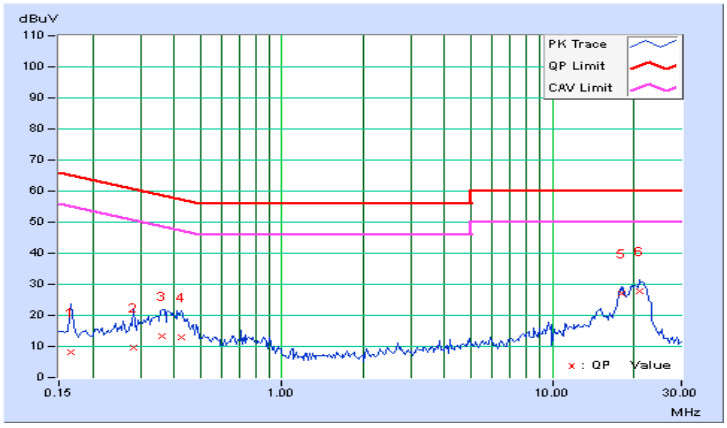


802.11n (40MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	E		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.27	7.97	6.60	8.24	6.87	65.18	55.18	-56.94	-48.31
2	0.28281	0.29	9.32	7.15	9.61	7.44	60.73	50.73	-51.12	-43.29
3	0.36094	0.30	12.94	5.07	13.24	5.37	58.71	48.71	-45.47	-43.34
4	0.42344	0.30	12.61	5.68	12.91	5.98	57.38	47.38	-44.47	-41.40
5	18.04297	0.57	26.32	20.05	26.89	20.62	60.00	50.00	-33.11	-29.38
6	20.97656	0.58	27.02	21.60	27.60	22.18	60.00	50.00	-32.40	-27.82

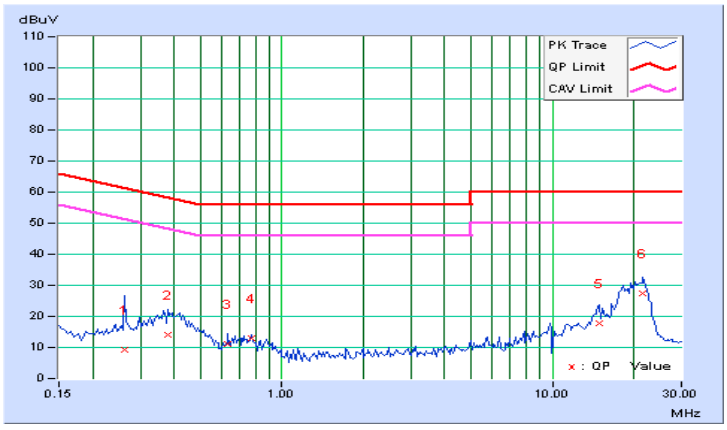
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	E		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.26328	0.29	9.11	0.52	9.40	0.81	61.33	51.33	-51.93	-50.52
2	0.38047	0.30	13.71	5.79	14.01	6.09	58.27	48.27	-44.26	-42.18
3	0.63047	0.32	10.82	7.86	11.14	8.18	56.00	46.00	-44.86	-37.82
4	0.77109	0.32	12.60	9.18	12.92	9.50	56.00	46.00	-43.08	-36.50
5	14.87500	0.56	17.35	10.27	17.91	10.83	60.00	50.00	-42.09	-39.17
6	21.65234	0.62	26.94	21.69	27.56	22.31	60.00	50.00	-32.44	-27.69

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.

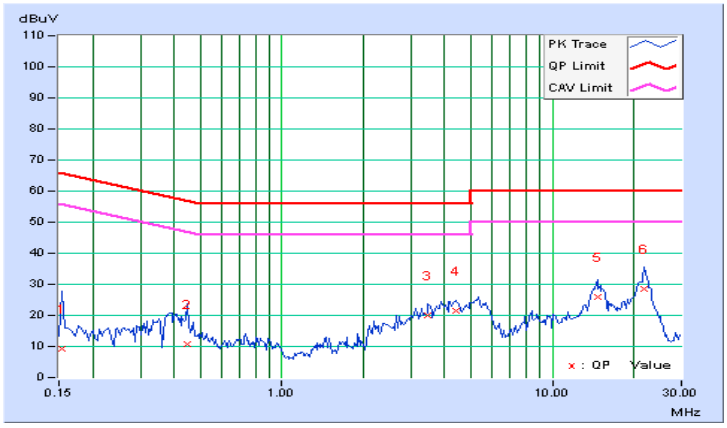


802.11n (40MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	F		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	8.98	3.41	9.25	3.68	65.79	55.79	-56.54	-52.11
2	0.44688	0.30	10.60	3.98	10.90	4.28	56.93	46.93	-46.03	-42.65
3	3.47656	0.41	19.50	15.84	19.91	16.25	56.00	46.00	-36.09	-29.75
4	4.38672	0.43	20.97	17.30	21.40	17.73	56.00	46.00	-34.60	-28.27
5	14.66797	0.53	25.55	18.73	26.08	19.26	60.00	50.00	-33.92	-30.74
6	21.96094	0.57	27.97	23.30	28.54	23.87	60.00	50.00	-31.46	-26.13

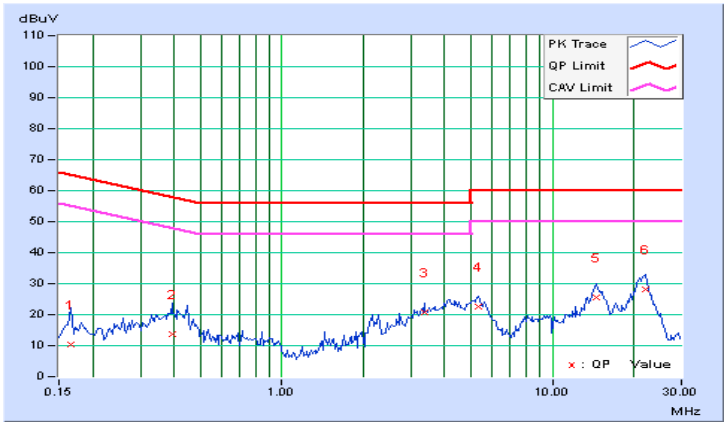
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	F		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.27	10.06	12.40	10.33	12.67	65.18	55.18	-54.85	-42.51
2	0.39219	0.30	13.47	4.76	13.77	5.06	58.02	48.02	-44.25	-42.96
3	3.36719	0.42	20.39	16.76	20.81	17.18	56.00	46.00	-35.19	-28.82
4	5.35156	0.46	22.04	18.32	22.50	18.78	60.00	50.00	-37.50	-31.22
5	14.55859	0.56	25.11	18.15	25.67	18.71	60.00	50.00	-34.33	-31.29
6	21.98047	0.61	27.69	22.80	28.30	23.41	60.00	50.00	-31.70	-26.59

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 TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√	---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√	---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√	---	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output v02r01 Method of conducted output power measurement on IEEE 802.11 devices,

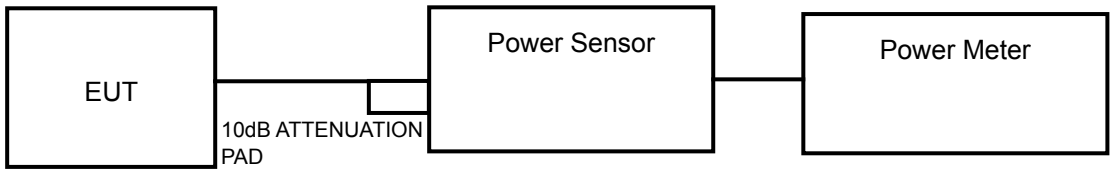
Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;
Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

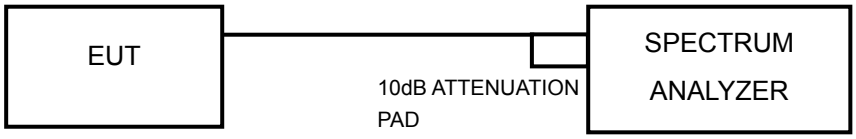
4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

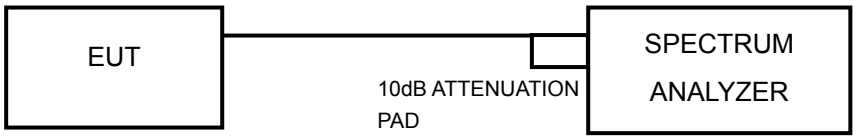
For 802.11a, 802.11n (20MHz), 802.11n (40MHz)



For 802.11ac (80MHz)



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

For 802.11a, 802.11ac (20MHz), 802.11ac (40MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac (80MHz)

Method SA-1

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz.
3) Set VBW ≥ 3 MHz.
4) Number of points in sweep ≥ 2 Span / RBW.
5) Sweep time = auto.
6) Set trigger to free run (duty cycle≥98 percent); Set video trigger (duty cycle<98 percent)
7) Detector = RMS.
8) Trace average at least 100 traces in power averaging mode
9) Compute power by integrating the spectrum across the 26 dB EBW of the signal.

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

TEST MODE A

POWER OUTPUT:

802.11a

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	15.18	14.36	14.97	91.656	19.62	23.99	PASS
60	5300	15.07	14.54	14.86	91.202	19.60	24.00	PASS
64	5320	15.12	14.78	15.03	94.412	19.75	24.00	PASS
100	5500	15.14	14.80	14.96	94.192	19.74	24.00	PASS
116	5580	15.15	14.96	15.03	95.909	19.82	23.98	PASS
140	5700	15.02	14.53	15.23	93.491	19.71	24.00	PASS
144	5720 For U-NII-2C	14.36	14.00	14.73	82.126	19.14	22.79	PASS
144	5720 For U-NII-3	9.59	9.12	9.76	26.727	14.27	23.83	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(19.91) = 23.99 dBm < 24.00dBm
2. 11dBm + 10log(21.09) = 24.24 dBm > 24.00dBm
3. 11dBm + 10log(20.16) = 24.04 dBm > 24.00dBm
4. 11dBm + 10log(20.52) = 24.12 dBm > 24.00dBm
5. 11dBm + 10log(20.15) = 24.04 dBm > 24.00dBm
6. 11dBm + 10log(20.35) = 24.09 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.90) = 22.79 dBm < 24.00 dBm
8. 17dBm + 10log(5709.90+20.14 - 5725.00) = 24.02 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(20.01) = 24.01 dBm > 24.00dBm
2. 11dBm + 10log(20.29) = 24.07 dBm > 24.00dBm
3. 11dBm + 10log(20.36) = 24.09 dBm > 24.00dBm
4. 11dBm + 10log(20.07) = 24.03 dBm > 24.00dBm
5. 11dBm + 10log(20.40) = 24.10 dBm > 24.00dBm
6. 11dBm + 10log(20.18) = 24.05 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.64) = 22.86 dBm < 24.00dBm
8. 17dBm + 10log(5709.64+20.35 - 5725.00) = 23.98 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(20.13) = 24.04 dBm > 24.00dBm
2. 11dBm + 10log(20.14) = 24.04 dBm > 24.00dBm
3. 11dBm + 10log(20.33) = 24.08 dBm > 24.00dBm
4. 11dBm + 10log(20.02) = 24.01 dBm > 24.00dBm
5. 11dBm + 10log(19.89) = 23.98 dBm < 24.00dBm
6. 11dBm + 10log(20.17) = 24.05 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.86) = 22.80 dBm < 24.00dBm
8. 17dBm + 10log(5709.86+19.96 - 5725.00) = 23.83 dBm < 30.00 dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	15.09	14.28	14.93	90.194	19.55	24.00	PASS
60	5300	15.15	14.50	14.95	92.179	19.65	24.00	PASS
64	5320	15.07	14.79	15.01	93.963	19.73	24.00	PASS
100	5500	15.09	14.81	15.11	94.988	19.78	24.00	PASS
116	5580	15.04	14.91	15.34	97.087	19.87	24.00	PASS
140	5700	15.04	14.65	15.33	95.208	19.79	24.00	PASS
144	5720 For U-NII-2C	15.01	14.53	16.03	100.162	20.01	22.90	PASS
144	5720 For U-NII-3	10.59	10.34	11.39	36.041	15.57	24.26	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(21.10) = 24.24 dBm > 24.00dBm
2. 11dBm + 10log(21.68) = 24.36 dBm > 24.00dBm
3. 11dBm + 10log(21.32) = 24.29 dBm > 24.00dBm
4. 11dBm + 10log(21.10) = 24.24 dBm > 24.00dBm
5. 11dBm + 10log(21.08) = 24.24 dBm > 24.00dBm
6. 11dBm + 10log(21.43) = 24.31 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.09) = 23.02 dBm < 24.00dBm
8. 17dBm + 10log(5709.09+21.66 - 5725.00) = 24.60 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(20.83) = 24.19 dBm > 24.00dBm
2. 11dBm + 10log(21.33) = 24.29 dBm > 24.00dBm
3. 11dBm + 10log(20.84) = 24.19 dBm > 24.00dBm
4. 11dBm + 10log(20.86) = 24.19 dBm > 24.00dBm
5. 11dBm + 10log(21.14) = 24.25 dBm > 24.00dBm
6. 11dBm + 10log(21.54) = 24.33 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.05) = 23.03 dBm < 24.00dBm
8. 17dBm + 10log(5709.05+21.70 - 5725.00) = 24.60 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(20.63) = 24.14 dBm > 24.00dBm
2. 11dBm + 10log(21.03) = 24.23 dBm > 24.00dBm
3. 11dBm + 10log(21.36) = 24.30 dBm > 24.00dBm
4. 11dBm + 10log(21.26) = 24.28 dBm > 24.00dBm
5. 11dBm + 10log(21.37) = 24.30 dBm > 24.00dBm
6. 11dBm + 10log(21.46) = 24.32 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.52) = 22.90 dBm < 24.00dBm
8. 17dBm + 10log(5709.52+20.80 - 5725.00) = 24.26 dBm < 30.00 dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	18.90	18.23	18.84	**220.712**	23.44	24.00	PASS
62	5310	16.20	15.70	15.89	117.656	20.71	24.00	PASS
102	5510	12.73	12.52	12.60	54.812	17.39	24.00	PASS
110	5550	18.98	19.14	18.89	**238.549**	23.78	24.00	PASS
134	5670	17.91	16.97	17.78	171.555	22.34	24.00	PASS
142	5710 For U-NII-2C	17.32	16.89	17.85	163.770	22.14	24.00	PASS
142	5710 For U-NII-3	12.75	12.72	12.91	57.086	17.57	27.93	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(51.39) = 28.11 dBm > 24.00dBm
2. 11dBm + 10log(46.42) = 27.67 dBm > 24.00dBm
3. 11dBm + 10log(51.81) = 28.14 dBm > 24.00dBm
4. 11dBm + 10log(51.29) = 28.10 dBm > 24.00dBm
5. 11dBm + 10log(52.02) = 28.16 dBm > 24.00dBm
6. 11dBm + 10log(5725.00 - 5686.16) = 26.89 dBm > 24.00dBm
7. 17dBm + 10log(5686.16+52.40 - 5725.00) = 28.32 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(48.06) = 27.82 dBm > 24.00dBm
2. 11dBm + 10log(46.37) = 27.66 dBm > 24.00dBm
3. 11dBm + 10log(52.06) = 28.17 dBm > 24.00dBm
4. 11dBm + 10log(51.01) = 28.08 dBm > 24.00dBm
5. 11dBm + 10log(46.47) = 27.67 dBm > 24.00dBm
6. 11dBm + 10log(5725.00 - 5686.35) = 26.87 dBm > 24.00dBm
7. 17dBm + 10log(5686.35+53.45 - 5725.00) = 28.70 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(46.96) = 27.72 dBm > 24.00dBm
2. 11dBm + 10log(45.30) = 27.56 dBm > 24.00dBm
3. 11dBm + 10log(50.47) = 28.03 dBm > 24.00dBm
4. 11dBm + 10log(51.65) = 28.13 dBm > 24.00dBm
5. 11dBm + 10log(48.83) = 27.89 dBm > 24.00dBm
6. 11dBm + 10log(5725.00 - 5686.40) = 26.87 dBm > 24.00dBm
7. 17dBm + 10log(5686.40+50.98 - 5725.00) = 27.93 dBm < 30.00 dBm

802.11ac (80MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
58	5290	10.91	10.28	10.98	35.528	15.51	24.00	PASS
106	5530	11.27	11.25	11.32	40.284	16.05	24.00	PASS
138	5690 For U-NII-2C	18.73	18.30	19.31	227.563	23.57	24.00	PASS
138	5690 For U-NII-3	9.74	10.11	9.29	28.168	14.50	26.01	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(89.37) = 30.51 dBm > 24.00dBm
2. 11dBm + 10log(90.26) = 30.55 dBm > 24.00dBm
3. 11dBm + 10log(5725.00 - 5644.54) = 30.06 dBm > 24.00dBm
4. 17dBm + 10log(5644.54+90.60 - 5725.00) = 27.06 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(91.17) = 30.60 dBm > 24.00dBm
2. 11dBm + 10log(91.16) = 30.60 dBm > 24.00dBm
3. 11dBm + 10log(5725.00 - 5646.47) = 29.95 dBm > 24.00dBm
4. 17dBm + 10log(5646.47+90.47 - 5725.00) = 27.77 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(86.05) = 30.35 dBm > 24.00dBm
2. 11dBm + 10log(87.14) = 30.40 dBm > 24.00dBm
3. 11dBm + 10log(5725.00 - 5645.01) = 30.03 dBm > 24.00dBm
4. 17dBm + 10log(5645.01+87.95 - 5725.00) = 26.01 dBm < 30.00 dBm

26dB BANDWIDTH:

802.11a

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	19.91	20.01	20.13	PASS
60	5300	21.09	20.29	20.14	PASS
64	5320	20.16	20.36	20.33	PASS
100	5500	20.52	20.07	20.02	PASS
116	5580	20.15	20.40	19.89	PASS
140	5700	20.35	20.18	20.17	PASS
144	5720	20.14	20.35	19.96	PASS

802.11n (20MHz)

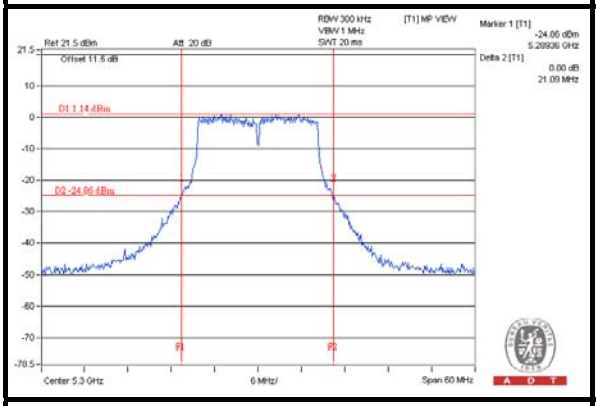
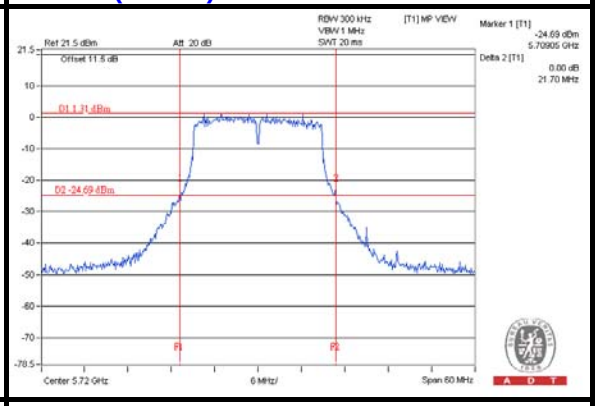
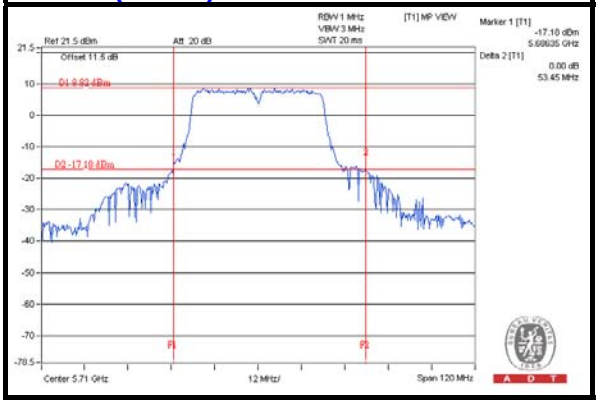
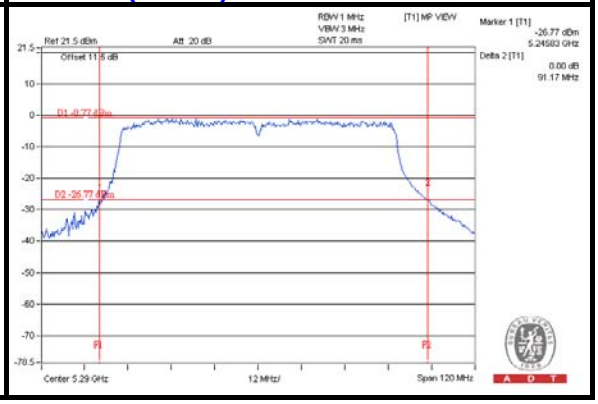
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.10	20.83	20.63	PASS
60	5300	21.68	21.33	21.03	PASS
64	5320	21.32	20.84	21.36	PASS
100	5500	21.10	20.86	21.26	PASS
116	5580	21.08	21.14	21.37	PASS
140	5700	21.43	21.54	21.46	PASS
144	5720	21.66	21.70	20.80	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	51.39	48.06	46.96	PASS
62	5310	46.42	46.37	45.30	PASS
102	5510	51.81	52.06	50.47	PASS
110	5550	51.29	51.01	51.65	PASS
134	5670	52.02	46.47	48.83	PASS
142	5710	52.40	53.45	50.98	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
58	5290	89.37	91.17	86.05	PASS
106	5530	90.26	91.16	87.14	PASS
138	5690	90.60	90.47	87.95	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (20MHz)**
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

TEST MODE B

POWER OUTPUT:

802.11a

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	8.81	8.35	9.11	22.589	13.54	18.50	PASS
60	5300	9.18	8.84	9.37	24.585	13.91	18.50	PASS
64	5320	9.30	9.14	9.19	25.014	13.98	18.50	PASS
100	5500	8.90	8.90	9.04	23.541	13.72	18.50	PASS
116	5580	8.97	8.95	9.45	24.551	13.90	18.50	PASS
140	5700	8.99	8.74	9.76	24.869	13.96	18.50	PASS
144	5720 For U-NII-2C	8.28	7.63	8.61	19.785	12.96	18.50	PASS
144	5720 For U-NII-3	3.64	2.89	3.54	6.516	8.14	23.79	PASS

For U-NII-2A, U-NII-2C:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 24-(11.5-6) = 18.5dBm.
For U-NII-3:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 30-(11.5-6) = 24.5dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(20.83) = 24.19 dBm > 18.50dBm
2. 11dBm + 10log(20.44) = 24.10 dBm > 18.50dBm
3. 11dBm + 10log(20.47) = 24.11 dBm > 18.50dBm
4. 11dBm + 10log(20.81) = 24.18 dBm > 18.50dBm
5. 11dBm + 10log(19.89) = 23.99 dBm > 18.50dBm
6. 11dBm + 10log(20.38) = 24.09 dBm > 18.50dBm
7. 11dBm + 10log(5725.00 - 5709.83) = 22.81 dBm > 18.50dBm
8. 17dBm + 10log(5709.83+20.38 - 5725.00) = 24.17 dBm < 24.50 dBm

CHAIN 1
1. 11dBm + 10log(19.23) = 23.84 dBm > 18.50dBm
2. 11dBm + 10log(19.88) = 23.98 dBm > 18.50dBm
3. 11dBm + 10log(20.61) = 24.14 dBm > 18.50dBm
4. 11dBm + 10log(20.16) = 24.04 dBm > 18.50dBm
5. 11dBm + 10log(19.75) = 23.96 dBm > 18.50dBm
6. 11dBm + 10log(20.58) = 24.13 dBm > 18.50dBm
7. 11dBm + 10log(5725.00 - 5709.88) = 22.80 dBm > 18.50dBm
8. 17dBm + 10log(5709.88+20.06 - 5725.00) = 23.94 dBm < 24.50 dBm

CHAIN 2
1. 11dBm + 10log(19.87) = 23.98 dBm > 18.50dBm
2. 11dBm + 10log(19.93) = 24.00 dBm > 18.50dBm
3. 11dBm + 10log(20.15) = 24.04 dBm > 18.50dBm
4. 11dBm + 10log(20.13) = 24.04 dBm > 18.50dBm
5. 11dBm + 10log(20.17) = 24.05 dBm > 18.50dBm
6. 11dBm + 10log(19.76) = 23.96 dBm > 18.50dBm
7. 11dBm + 10log(5725.00 - 5709.63) = 22.87 dBm > 18.50dBm
8. 17dBm + 10log(5709.63+20.15 - 5725.00) = 23.79 dBm < 24.50 dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	9.80	8.91	9.90	27.102	14.33	18.50	PASS
60	5300	9.52	9.16	9.40	25.905	14.13	18.50	PASS
64	5320	9.44	9.06	9.36	25.474	14.06	18.50	PASS
100	5500	9.43	9.25	9.51	26.117	14.17	18.50	PASS
116	5580	9.34	9.36	9.98	27.174	14.34	18.50	PASS
140	5700	9.56	9.30	9.81	27.119	14.33	18.50	PASS
144	5720 For U-NII-2C	8.84	8.41	9.09	22.700	13.56	18.50	PASS
144	5720 For U-NII-3	4.39	3.91	4.44	7.988	9.02	24.30	PASS

For U-NII-2A, U-NII-2C:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 24-(11.5-6) = 18.5dBm.
For U-NII-3:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 30-(11.5-6) = 24.5dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(21.13) = 24.25 dBm > 18.50dBm
2. 11dBm + 10log(21.19) = 24.26 dBm > 18.50dBm
3. 11dBm + 10log(21.10) = 24.24 dBm > 18.50dBm
4. 11dBm + 10log(21.12) = 24.25 dBm > 18.50dBm
5. 11dBm + 10log(20.90) = 24.20 dBm > 18.50dBm
6. 11dBm + 10log(21.47) = 24.32 dBm > 18.50dBm
7. 11dBm + 10log(5725.00 - 5709.29) = 22.96 dBm > 18.50dBm
8. 17dBm + 10log(5709.29+21.36 - 5725.00) = 24.52 dBm < 24.50 dBm

CHAIN 1
1. 11dBm + 10log(21.06) = 24.23 dBm > 18.50dBm
2. 11dBm + 10log(21.02) = 24.23 dBm > 18.50dBm
3. 11dBm + 10log(21.01) = 24.22 dBm > 18.50dBm
4. 11dBm + 10log(21.07) = 24.24 dBm > 18.50dBm
5. 11dBm + 10log(20.96) = 24.21 dBm > 18.50dBm
6. 11dBm + 10log(20.89) = 24.20 dBm > 18.50dBm
7. 11dBm + 10log(5725.00 - 5709.45) = 22.92 dBm > 18.50dBm
8. 17dBm + 10log(5709.45+21.07 - 5725.00) = 24.42 dBm < 24.50 dBm

CHAIN 2
1. 11dBm + 10log(20.73) = 24.17 dBm > 18.50dBm
2. 11dBm + 10log(21.40) = 24.30 dBm > 18.50dBm
3. 11dBm + 10log(21.05) = 24.23 dBm > 18.50dBm
4. 11dBm + 10log(20.87) = 24.20 dBm > 18.50dBm
5. 11dBm + 10log(21.15) = 24.25 dBm > 18.50dBm
6. 11dBm + 10log(21.06) = 24.23 dBm > 18.50dBm
7. 11dBm + 10log(5725.00 - 5709.31) = 22.96 dBm > 18.50dBm
8. 17dBm + 10log(5709.31+21.06 - 5725.00) = 24.30 dBm < 24.50 dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	13.21	12.78	13.18	**60.705**	17.83	18.50	PASS
62	5310	11.25	10.98	11.34	39.480	15.96	18.50	PASS
102	5510	11.87	11.86	12.00	46.577	16.68	18.50	PASS
110	5550	13.72	13.49	13.61	**68.847**	18.38	18.50	PASS
134	5670	13.63	13.20	13.72	67.510	18.29	18.50	PASS
142	5710 For U-NII-2C	12.02	11.62	12.72	49.150	16.92	18.50	PASS
142	5710 For U-NII-3	6.60	5.77	5.76	12.114	10.83	24.50	PASS

For U-NII-2A, U-NII-2C:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 24-(11.5-6) = 18.5dBm.
For U-NII-3:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 30-(11.5-6) = 24.5dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(48.80) = 27.88 dBm > 18.50dBm
2. 11dBm + 10log(47.11) = 27.73 dBm > 18.50dBm
3. 11dBm + 10log(45.60) = 27.59 dBm > 18.50dBm
4. 11dBm + 10log(46.32) = 27.66 dBm > 18.50dBm
5. 11dBm + 10log(48.14) = 27.83 dBm > 18.50dBm
6. 11dBm + 10log(5725.00 - 5686.37) = 26.87 dBm > 18.50dBm
7. 17dBm + 10log(5686.37+49.72 - 5725.00) = 27.45 dBm > 24.50 dBm

CHAIN 1
1. 11dBm + 10log(47.91) = 27.80 dBm > 18.50dBm
2. 11dBm + 10log(46.42) = 27.67 dBm > 18.50dBm
3. 11dBm + 10log(45.92) = 27.62 dBm > 18.50dBm
4. 11dBm + 10log(49.57) = 27.95 dBm > 18.50dBm
5. 11dBm + 10log(45.80) = 27.61 dBm > 18.50dBm
6. 11dBm + 10log(5725.00 - 5686.88) = 26.81 dBm > 18.50dBm
7. 17dBm + 10log(5686.88+48.03 - 5725.00) = 26.96 dBm > 24.50 dBm

CHAIN 2
1. 11dBm + 10log(48.34) = 27.84 dBm > 18.50dBm
2. 11dBm + 10log(45.85) = 27.61 dBm > 18.50dBm
3. 11dBm + 10log(46.18) = 27.64 dBm > 18.50dBm
4. 11dBm + 10log(50.49) = 28.03 dBm > 18.50dBm
5. 11dBm + 10log(51.35) = 28.11 dBm > 18.50dBm
6. 11dBm + 10log(5725.00 - 5687.29) = 26.76 dBm > 18.50dBm
7. 17dBm + 10log(5687.29+45.30 - 5725.00) = 25.80 dBm > 24.50 dBm

802.11ac (80MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
58	5290	9.61	8.93	9.39	25.647	14.09	18.50	PASS
106	5530	6.50	7.46	7.41	15.547	11.92	18.50	PASS
138	5690 For U-NII-2C	12.99	12.46	13.41	59.455	17.74	18.50	PASS
138	5690 For U-NII-3	4.11	4.30	3.59	7.554	8.78	24.50	PASS

For U-NII-2A, U-NII-2C:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 24-(11.5-6) = 18.5dBm.
For U-NII-3:
Gain = 11.5dBi > 6dBi, so the conducted power limit shall be reduced to 30-(11.5-6) = 24.5dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(90.23) = 30.55 dBm > 18.50dBm
2. 11dBm + 10log(90.78) = 30.58 dBm > 18.50dBm
3. 11dBm + 10log(5725.00 - 5645.75) = 29.99 dBm > 18.50dBm
4. 17dBm + 10log(5645.75+89.49 - 5725.00) = 27.10 dBm > 24.50 dBm

CHAIN 1
1. 11dBm + 10log(89.52) = 30.52 dBm > 18.50dBm
2. 11dBm + 10log(89.50) = 30.52 dBm > 18.50dBm
3. 11dBm + 10log(5725.00 - 5646.80) = 29.93 dBm > 18.50dBm
4. 17dBm + 10log(5646.80+90.14 - 5725.00) = 27.77 dBm > 24.50 dBm

CHAIN 2
1. 11dBm + 10log(86.56) = 30.37 dBm > 18.50dBm
2. 11dBm + 10log(88.19) = 30.45 dBm > 18.50dBm
3. 11dBm + 10log(5725.00 - 5646.26) = 29.96 dBm > 18.50dBm
4. 17dBm + 10log(5646.26+86.95 - 5725.00) = 26.14 dBm > 24.50 dBm

26dB BANDWIDTH:

802.11a

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	20.83	19.23	19.87	PASS
60	5300	20.44	19.88	19.93	PASS
64	5320	20.47	20.61	20.15	PASS
100	5500	20.81	20.16	20.13	PASS
116	5580	19.89	19.75	20.17	PASS
140	5700	20.38	20.58	19.76	PASS
144	5720	20.38	20.06	20.15	PASS

802.11n (20MHz)

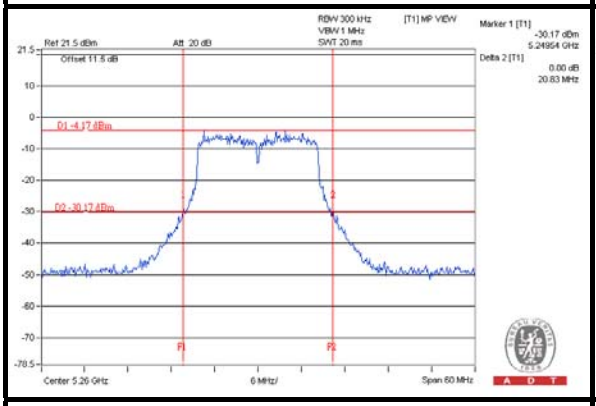
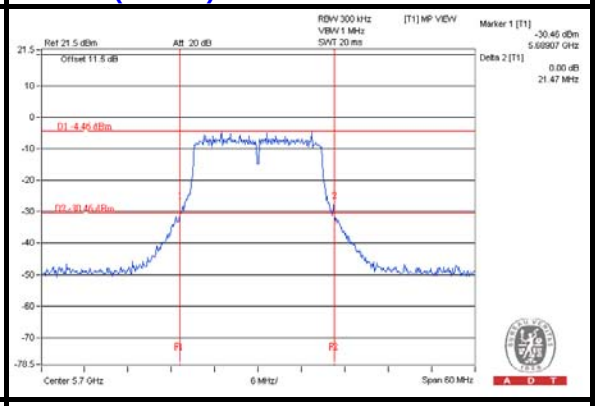
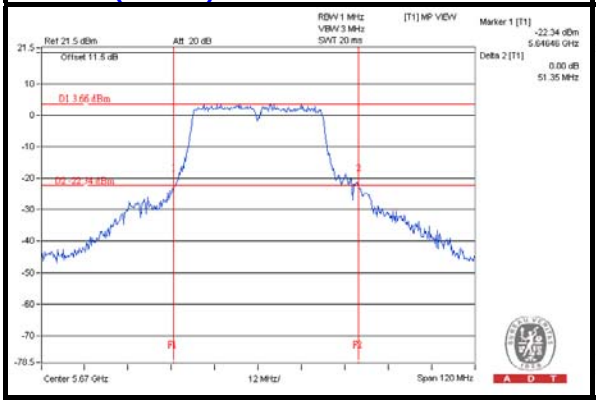
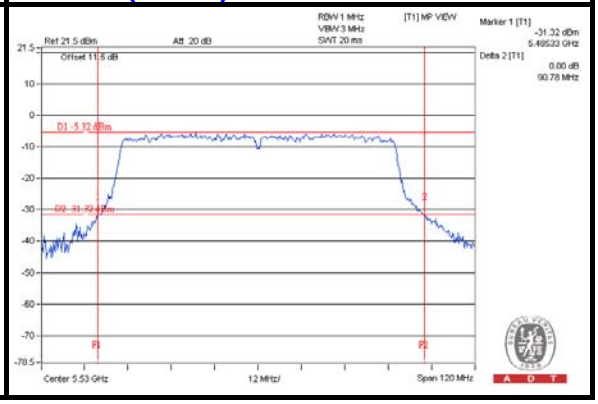
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.13	21.06	20.73	PASS
60	5300	21.19	21.02	21.40	PASS
64	5320	21.10	21.01	21.05	PASS
100	5500	21.12	21.07	20.87	PASS
116	5580	20.90	20.96	21.15	PASS
140	5700	21.47	20.89	21.06	PASS
144	5720	21.36	21.07	21.06	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	48.80	47.91	48.34	PASS
62	5310	47.11	46.42	45.85	PASS
102	5510	45.60	45.92	46.18	PASS
110	5550	46.32	49.57	50.49	PASS
134	5670	48.14	45.80	51.35	PASS
142	5710	49.72	48.03	45.30	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
58	5290	90.23	89.52	86.56	PASS
106	5530	90.78	89.50	88.19	PASS
138	5690	89.49	90.14	86.95	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (20MHz)**
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

TEST MODE C

POWER OUTPUT:

802.11a

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	12.53	11.88	12.65	51.731	17.14	22.00	PASS
60	5300	12.61	12.13	12.77	53.493	17.28	22.00	PASS
64	5320	12.54	12.35	12.37	52.384	17.19	22.00	PASS
100	5500	12.38	12.30	12.43	51.778	17.14	22.00	PASS
116	5580	12.32	12.13	12.81	52.491	17.20	22.00	PASS
140	5700	12.21	12.26	13.09	53.831	17.31	22.00	PASS
144	5720 For U-NII-2C	11.58	11.15	12.40	44.798	16.51	22.00	PASS
144	5720 For U-NII-3	6.47	6.23	7.44	14.180	11.52	23.75	PASS

For U-NII-2A, U-NII-2C:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 24-(8-6) = 22dBm.
For U-NII-3:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8-6) = 28dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(20.03) = 24.02 dBm > 22.00dBm
2. 11dBm + 10log(20.15) = 24.04 dBm > 22.00dBm
3. 11dBm + 10log(20.17) = 24.05 dBm > 22.00dBm
4. 11dBm + 10log(20.17) = 24.05 dBm > 22.00dBm
5. 11dBm + 10log(20.50) = 24.12 dBm > 22.00dBm
6. 11dBm + 10log(20.21) = 24.06 dBm > 22.00dBm
7. 11dBm + 10log(5725.00 - 5709.66) = 22.86 dBm > 22.00dBm
8. 17dBm + 10log(5709.66+20.07 - 5725.00) = 23.75 dBm < 28.00 dBm

CHAIN 1
1. 11dBm + 10log(19.71) = 23.95 dBm > 22.00dBm
2. 11dBm + 10log(20.37) = 24.09 dBm > 22.00dBm
3. 11dBm + 10log(20.03) = 24.02 dBm > 22.00dBm
4. 11dBm + 10log(20.39) = 24.09 dBm > 22.00dBm
5. 11dBm + 10log(20.17) = 24.05 dBm > 22.00dBm
6. 11dBm + 10log(20.09) = 24.03 dBm > 22.00dBm
7. 11dBm + 10log(5725.00 - 5710.12) = 22.73 dBm > 22.00dBm
8. 17dBm + 10log(5710.12+19.67 - 5725.00) = 23.80 dBm < 28.00 dBm

CHAIN 2
1. 11dBm + 10log(19.67) = 23.94 dBm > 22.00dBm
2. 11dBm + 10log(19.98) = 24.01 dBm > 22.00dBm
3. 11dBm + 10log(20.28) = 24.07 dBm > 22.00dBm
4. 11dBm + 10log(19.79) = 23.96 dBm > 22.00dBm
5. 11dBm + 10log(20.45) = 24.11 dBm > 22.00dBm
6. 11dBm + 10log(20.31) = 24.08 dBm > 22.00dBm
7. 11dBm + 10log(5725.00 - 5709.65) = 22.86 dBm > 22.00dBm
8. 17dBm + 10log(5709.65+20.25 - 5725.00) = 23.90 dBm < 28.00 dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	12.62	11.92	12.73	52.591	17.21	22.00	PASS
60	5300	12.71	12.08	12.83	53.995	17.32	22.00	PASS
64	5320	12.36	12.28	12.46	51.743	17.14	22.00	PASS
100	5500	12.61	12.45	12.74	54.611	17.37	22.00	PASS
116	5580	12.56	12.49	13.19	56.617	17.53	22.00	PASS
140	5700	12.92	12.60	13.55	60.431	17.81	22.00	PASS
144	5720 For U-NII-2C	11.81	11.56	12.65	47.901	16.80	22.00	PASS
144	5720 For U-NII-3	7.25	6.88	8.08	16.611	12.20	24.28	PASS

For U-NII-2A, U-NII-2C:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 24-(8-6) = 22dBm.
For U-NII-3:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8-6) = 28dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(21.08) = 24.24 dBm > 22.00dBm
2. 11dBm + 10log(21.17) = 24.26 dBm > 22.00dBm
3. 11dBm + 10log(21.57) = 24.34 dBm > 22.00dBm
4. 11dBm + 10log(21.29) = 24.28 dBm > 22.00dBm
5. 11dBm + 10log(20.95) = 24.21 dBm > 22.00dBm
6. 11dBm + 10log(21.47) = 24.32 dBm > 22.00dBm
7. 11dBm + 10log(5725.00 - 5709.53) = 22.89 dBm > 22.00dBm
8. 17dBm + 10log(5709.53+20.89 - 5725.00) = 24.34 dBm < 28.00 dBm

CHAIN 1
1. 11dBm + 10log(21.07) = 24.24 dBm > 22.00dBm
2. 11dBm + 10log(20.89) = 24.20 dBm > 22.00dBm
3. 11dBm + 10log(20.78) = 24.18 dBm > 22.00dBm
4. 11dBm + 10log(20.94) = 24.21 dBm > 22.00dBm
5. 11dBm + 10log(20.90) = 24.20 dBm > 22.00dBm
6. 11dBm + 10log(20.85) = 24.19 dBm > 22.00dBm
7. 11dBm + 10log(5725.00 - 5709.29) = 22.96 dBm > 22.00dBm
8. 17dBm + 10log(5709.29+21.06 - 5725.00) = 24.28 dBm < 28.00 dBm

CHAIN 2
1. 11dBm + 10log(20.84) = 24.19 dBm > 22.00dBm
2. 11dBm + 10log(21.38) = 24.30 dBm > 22.00dBm
3. 11dBm + 10log(20.91) = 24.20 dBm > 22.00dBm
4. 11dBm + 10log(20.78) = 24.18 dBm > 22.00dBm
5. 11dBm + 10log(20.71) = 24.16 dBm > 22.00dBm
6. 11dBm + 10log(21.34) = 24.29 dBm > 22.00dBm
7. 11dBm + 10log(5725.00 - 5709.38) = 22.94 dBm > 22.00dBm
8. 17dBm + 10log(5709.38+21.07 - 5725.00) = 24.36 dBm < 28.00 dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	16.12	15.63	16.29	120.045	20.79	22.00	PASS
62	5310	16.21	16.06	16.43	**126.102**	21.01	22.00	PASS
102	5510	12.87	12.71	12.86	57.348	17.59	22.00	PASS
110	5550	16.95	16.66	16.90	**144.868**	21.61	22.00	PASS
134	5670	16.91	16.65	16.77	142.863	21.55	22.00	PASS
142	5710 For U-NII-2C	15.55	15.19	15.98	108.557	20.36	22.00	PASS
142	5710 For U-NII-3	8.86	8.26	9.86	24.073	13.82	25.90	PASS

For U-NII-2A, U-NII-2C:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 24-(8-6) = 22dBm.
For U-NII-3:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8-6) = 28dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(46.28) = 27.65 dBm > 22.00dBm
2. 11dBm + 10log(46.40) = 27.67 dBm > 22.00dBm
3. 11dBm + 10log(46.76) = 27.70 dBm > 22.00dBm
4. 11dBm + 10log(47.38) = 27.76 dBm > 22.00dBm
5. 11dBm + 10log(46.91) = 27.71 dBm > 22.00dBm
6. 11dBm + 10log(5725.00 - 5686.60) = 26.84 dBm > 22.00dBm
7. 17dBm + 10log(5686.60+46.63 - 5725.00) = 26.15 dBm < 28.00 dBm

CHAIN 1
1. 11dBm + 10log(45.93) = 27.62 dBm > 22.00dBm
2. 11dBm + 10log(46.62) = 27.69 dBm > 22.00dBm
3. 11dBm + 10log(49.44) = 27.94 dBm > 22.00dBm
4. 11dBm + 10log(46.27) = 27.65 dBm > 22.00dBm
5. 11dBm + 10log(46.16) = 27.64 dBm > 22.00dBm
6. 11dBm + 10log(5725.00 - 5686.80) = 26.82 dBm > 22.00dBm
7. 17dBm + 10log(5686.80+45.96 - 5725.00) = 25.90 dBm < 28.00 dBm

CHAIN 2
1. 11dBm + 10log(51.01) = 28.08 dBm > 22.00dBm
2. 11dBm + 10log(52.59) = 28.21 dBm > 22.00dBm
3. 11dBm + 10log(48.78) = 27.88 dBm > 22.00dBm
4. 11dBm + 10log(45.36) = 27.57 dBm > 22.00dBm
5. 11dBm + 10log(45.27) = 27.56 dBm > 22.00dBm
6. 11dBm + 10log(5725.00 - 5686.88) = 26.81 dBm > 22.00dBm
7. 17dBm + 10log(5686.88+47.43 - 5725.00) = 26.69 dBm < 28.00 dBm

802.11ac (80MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
58	5290	11.29	10.61	11.32	38.519	15.86	22.00	PASS
106	5530	11.50	11.27	11.33	41.105	16.14	22.00	PASS
138	5690 For U-NII-2C	16.80	16.37	17.12	142.737	21.55	22.00	PASS
138	5690 For U-NII-3	7.29	8.14	7.37	17.332	12.39	26.23	PASS

For U-NII-2A, U-NII-2C:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 24-(8-6) = 22dBm.
For U-NII-3:
Gain = 8dBi > 6dBi, so the conducted power limit shall be reduced to 30-(8-6) = 28dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(90.64) = 30.57 dBm > 22.00dBm
2. 11dBm + 10log(90.00) = 30.54 dBm > 22.00dBm
3. 11dBm + 10log(5725.00 - 5645.75) = 29.99 dBm > 22.00dBm
4. 17dBm + 10log(5645.75+88.13 - 5725.00) = 26.48 dBm < 28.00 dBm

CHAIN 1
1. 11dBm + 10log(90.16) = 30.55 dBm > 22.00dBm
2. 11dBm + 10log(90.79) = 30.58 dBm > 22.00dBm
3. 11dBm + 10log(5725.00 - 5646.00) = 29.98 dBm > 22.00dBm
4. 17dBm + 10log(5646.00+90.87 - 5725.00) = 27.74 dBm < 28.00 dBm

CHAIN 2
1. 11dBm + 10log(85.32) = 30.31 dBm > 22.00dBm
2. 11dBm + 10log(86.73) = 30.38 dBm > 22.00dBm
3. 11dBm + 10log(5725.00 - 5645.91) = 29.98 dBm > 22.00dBm
4. 17dBm + 10log(5645.91+87.47 - 5725.00) = 26.23 dBm < 28.00 dBm

26dB BANDWIDTH:

802.11a

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	20.03	19.71	19.67	PASS
60	5300	20.15	20.37	19.98	PASS
64	5320	20.17	20.03	20.28	PASS
100	5500	20.17	20.39	19.79	PASS
116	5580	20.50	20.17	20.45	PASS
140	5700	20.21	20.09	20.31	PASS
144	5720	20.07	19.67	20.25	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.08	21.07	20.84	PASS
60	5300	21.17	20.89	21.38	PASS
64	5320	21.57	20.78	20.91	PASS
100	5500	21.29	20.94	20.78	PASS
116	5580	20.95	20.90	20.71	PASS
140	5700	21.47	20.85	21.34	PASS
144	5720	20.89	21.06	21.07	PASS

802.11n (40MHz)

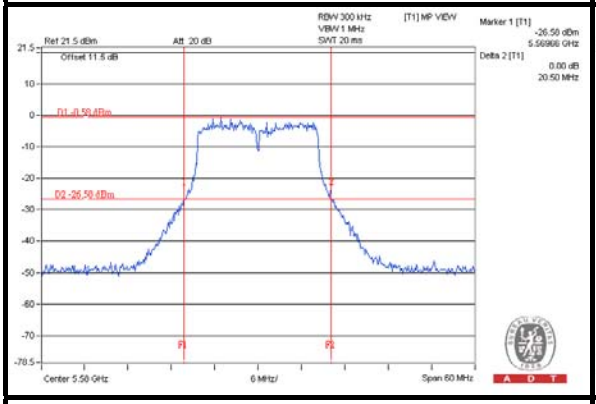
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	46.28	45.93	51.01	PASS
62	5310	46.40	46.62	52.59	PASS
102	5510	46.76	49.44	48.78	PASS
110	5550	47.38	46.27	45.36	PASS
134	5670	46.91	46.16	45.27	PASS
142	5710	46.63	45.96	47.43	PASS

802.11ac (80MHz)

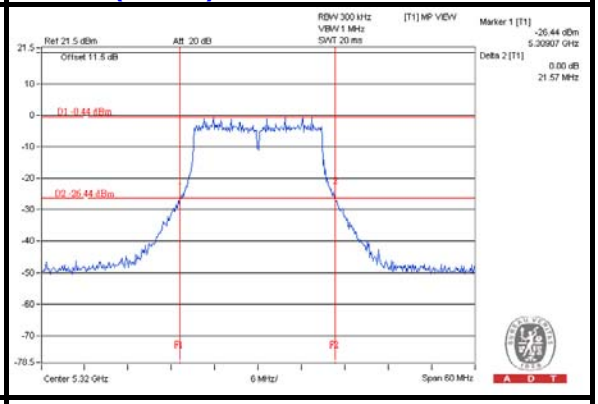
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
58	5290	90.64	90.16	85.32	PASS
106	5530	90.00	90.79	86.73	PASS
138	5690	88.13	90.87	87.47	PASS

SPECTRUM PLOT OF WORST VALUE

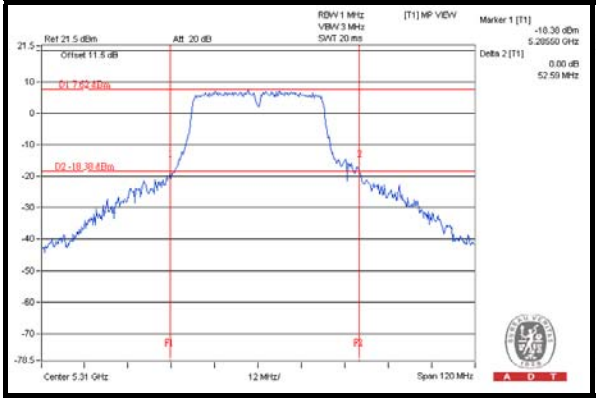
802.11a



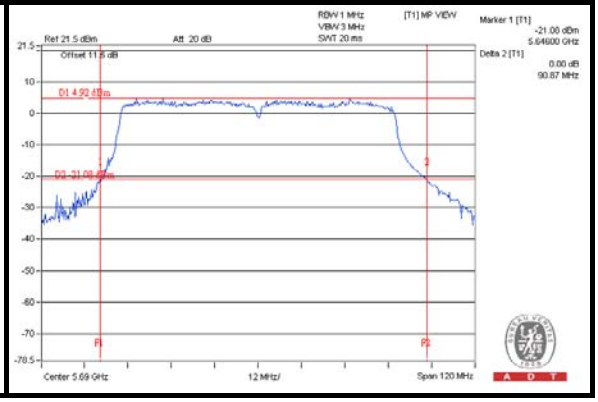
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE D

POWER OUTPUT:

802.11a

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	18.03	17.15	18.11	180.127	22.56	23.97	PASS
60	5300	17.95	17.56	18.16	184.853	22.67	24.00	PASS
64	5320	18.05	17.89	18.22	191.718	22.83	23.88	PASS
100	5500	18.17	17.84	17.71	185.449	22.68	24.00	PASS
116	5580	19.91	18.28	18.48	235.716	23.72	24.00	PASS
140	5700	18.46	18.21	19.07	217.092	23.37	24.00	PASS
144	5720 For U-NII-2C	16.70	16.33	17.42	144.936	21.61	22.82	PASS
144	5720 For U-NII-3	11.97	11.52	12.72	48.638	16.87	24.01	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(20.62) = 24.14 dBm > 24.00dBm
2. 11dBm + 10log(20.24) = 24.06 dBm > 24.00dBm
3. 11dBm + 10log(20.15) = 24.04 dBm > 24.00dBm
4. 11dBm + 10log(20.47) = 24.11 dBm > 24.00dBm
5. 11dBm + 10log(20.56) = 24.13 dBm > 24.00dBm
6. 11dBm + 10log(21.27) = 24.28 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.51) = 22.90 dBm < 24.00dBm
8. 17dBm + 10log(5709.51+20.71 - 5725.00) = 24.18 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(19.83) = 23.97 dBm < 24.00dBm
2. 11dBm + 10log(20.46) = 24.11 dBm > 24.00dBm
3. 11dBm + 10log(19.43) = 23.88 dBm < 24.00dBm
4. 11dBm + 10log(20.49) = 24.12 dBm > 24.00dBm
5. 11dBm + 10log(20.03) = 24.02 dBm > 24.00dBm
6. 11dBm + 10log(20.07) = 24.03 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.81) = 22.82 dBm < 24.00dBm
8. 17dBm + 10log(5709.81+20.21 - 5725.00) = 24.01 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(20.28) = 24.07 dBm > 24.00dBm
2. 11dBm + 10log(20.27) = 24.07 dBm > 24.00dBm
3. 11dBm + 10log(20.00) = 24.01 dBm > 24.00dBm
4. 11dBm + 10log(20.50) = 24.12 dBm > 24.00dBm
5. 11dBm + 10log(20.33) = 24.08 dBm > 24.00dBm
6. 11dBm + 10log(20.20) = 24.05 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.48) = 22.91 dBm < 24.00dBm
8. 17dBm + 10log(5709.48+20.78 - 5725.00) = 24.21 dBm < 30.00 dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	18.22	17.33	18.35	188.840	22.76	24.00	PASS
60	5300	18.06	17.67	18.45	192.436	22.84	24.00	PASS
64	5320	18.15	18.01	17.92	190.498	22.80	24.00	PASS
100	5500	18.34	17.89	18.17	195.367	22.91	24.00	PASS
116	5580	19.05	18.39	18.58	221.488	23.45	24.00	PASS
140	5700	17.46	16.79	17.07	154.405	21.89	24.00	PASS
144	5720 For U-NII-2C	17.01	16.53	17.84	156.026	21.93	22.91	PASS
144	5720 For U-NII-3	12.44	11.96	13.24	54.329	17.35	24.31	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(21.47) = 24.32 dBm > 24.00dBm
2. 11dBm + 10log(21.37) = 24.30 dBm > 24.00dBm
3. 11dBm + 10log(21.13) = 24.25 dBm > 24.00dBm
4. 11dBm + 10log(21.38) = 24.30 dBm > 24.00dBm
5. 11dBm + 10log(21.85) = 24.39 dBm > 24.00dBm
6. 11dBm + 10log(21.01) = 24.22 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.02) = 23.04 dBm < 24.00dBm
8. 17dBm + 10log(5709.02+21.56 - 5725.00) = 24.47 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(20.84) = 24.19 dBm > 24.00dBm
2. 11dBm + 10log(21.39) = 24.30 dBm > 24.00dBm
3. 11dBm + 10log(21.21) = 24.27 dBm > 24.00dBm
4. 11dBm + 10log(21.07) = 24.24 dBm > 24.00dBm
5. 11dBm + 10log(21.32) = 24.29 dBm > 24.00dBm
6. 11dBm + 10log(20.98) = 24.22 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.47) = 22.91 dBm < 24.00dBm
8. 17dBm + 10log(5709.47+20.95 - 5725.00) = 24.34 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(21.14) = 24.25 dBm > 24.00dBm
2. 11dBm + 10log(21.09) = 24.24 dBm > 24.00dBm
3. 11dBm + 10log(21.12) = 24.25 dBm > 24.00dBm
4. 11dBm + 10log(21.05) = 24.23 dBm > 24.00dBm
5. 11dBm + 10log(20.85) = 24.19 dBm > 24.00dBm
6. 11dBm + 10log(20.86) = 24.19 dBm > 24.00dBm
7. 11dBm + 10log(5725.00 - 5709.49) = 22.91 dBm < 24.00dBm
8. 17dBm + 10log(5709.49+20.89 - 5725.00) = 24.31 dBm < 30.00 dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	18.90	18.23	18.84	**220.712**	23.44	24.00	PASS
62	5310	16.86	16.49	16.80	140.958	21.49	24.00	PASS
102	5510	12.91	13.04	12.92	59.268	17.73	24.00	PASS
110	5550	18.98	19.14	18.89	**238.549**	23.78	24.00	PASS
134	5670	19.27	18.44	18.92	232.334	23.66	24.00	PASS
142	5710 For U-NII-2C	17.80	17.63	18.46	188.345	22.75	24.00	PASS
142	5710 For U-NII-3	13.27	12.46	13.14	59.458	17.74	30.00	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(50.21) = 28.01 dBm > 24.00dBm
2. 11dBm + 10log(49.24) = 27.92 dBm > 24.00dBm
3. 11dBm + 10log(49.33) = 27.93 dBm > 24.00dBm
4. 11dBm + 10log(53.74) = 28.30 dBm > 24.00dBm
5. 11dBm + 10log(51.67) = 28.13 dBm > 24.00dBm
6. 11dBm + 10log(5725.00 - 5686.13) = 26.90 dBm > 24.00dBm
7. 17dBm + 10log(5686.13+52.55 - 5725.00) = 28.36 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(46.41) = 27.67 dBm > 24.00dBm
2. 11dBm + 10log(46.73) = 27.70 dBm > 24.00dBm
3. 11dBm + 10log(50.51) = 28.03 dBm > 24.00dBm
4. 11dBm + 10log(50.33) = 28.02 dBm > 24.00dBm
5. 11dBm + 10log(52.56) = 28.21 dBm > 24.00dBm
6. 11dBm + 10log(5725.00 - 5686.06) = 26.90 dBm > 24.00dBm
7. 17dBm + 10log(5686.06+50.78 - 5725.00) = 27.73 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(48.60) = 27.87 dBm > 24.00dBm
2. 11dBm + 10log(45.02) = 27.53 dBm > 24.00dBm
3. 11dBm + 10log(50.99) = 28.07 dBm > 24.00dBm
4. 11dBm + 10log(51.82) = 28.14 dBm > 24.00dBm
5. 11dBm + 10log(51.61) = 28.13 dBm > 24.00dBm
6. 11dBm + 10log(5725.00 - 5686.99) = 26.80 dBm > 24.00dBm
7. 17dBm + 10log(5686.99+49.18 - 5725.00) = 27.48 dBm < 30.00 dBm

802.11ac (80MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
58	5290	11.86	11.58	11.83	44.975	16.53	24.00	PASS
106	5530	11.11	11.06	11.03	38.353	15.84	24.00	PASS
138	5690 For U-NII-2C	18.73	18.30	19.31	227.563	23.57	24.00	PASS
138	5690 For U-NII-3	9.74	10.11	9.29	28.168	14.50	25.85	PASS

NOTE:

For 5260~5720MHz:

CHAIN 0

1. 11dBm + 10log(91.22) = 30.60 dBm > 24.00dBm
2. 11dBm + 10log(92.01) = 30.64 dBm > 24.00dBm
3. 11dBm + 10log(5725.00 - 5644.58) = 30.05 dBm > 24.00dBm
4. 17dBm + 10log(5644.58+100.19 - 5725.00) = 29.96 dBm < 30.00 dBm

CHAIN 1

1. 11dBm + 10log(90.00) = 30.54 dBm > 24.00dBm
2. 11dBm + 10log(91.46) = 30.61 dBm > 24.00dBm
3. 11dBm + 10log(5725.00 - 5645.76) = 29.99 dBm > 24.00dBm
4. 17dBm + 10log(5645.76+91.44 - 5725.00) = 27.86 dBm < 30.00 dBm

CHAIN 2

1. 11dBm + 10log(86.84) = 30.39 dBm > 24.00dBm
2. 11dBm + 10log(86.07) = 30.35 dBm > 24.00dBm
3. 11dBm + 10log(5725.00 - 5642.40) = 30.17 dBm > 24.00dBm
4. 17dBm + 10log(5642.40+90.28 - 5725.00) = 25.85 dBm < 30.00 dBm

26dB BANDWIDTH:

802.11a

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	20.62	19.83	20.28	PASS
60	5300	20.24	20.46	20.27	PASS
64	5320	20.15	19.43	20.00	PASS
100	5500	20.47	20.49	20.50	PASS
116	5580	20.56	20.03	20.33	PASS
140	5700	21.27	20.07	20.20	PASS
144	5720	20.71	20.21	20.78	PASS

802.11n (20MHz)

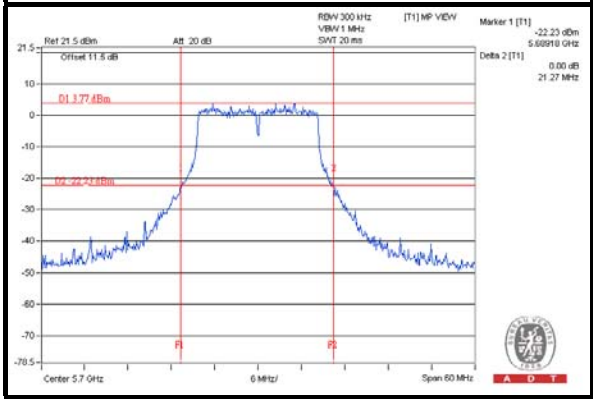
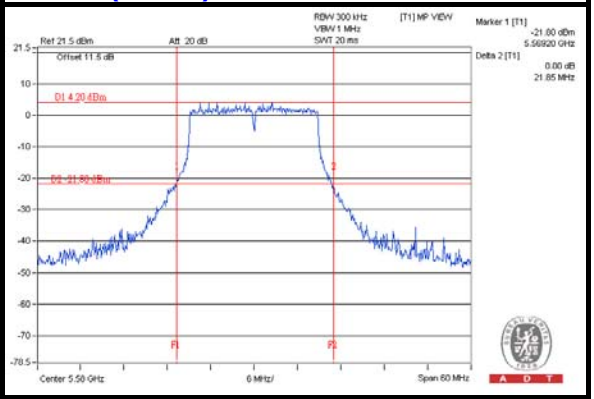
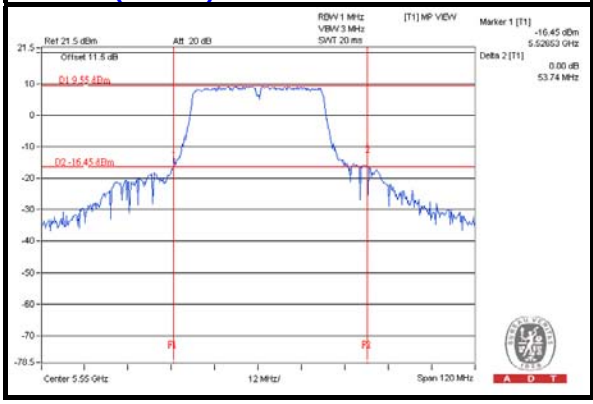
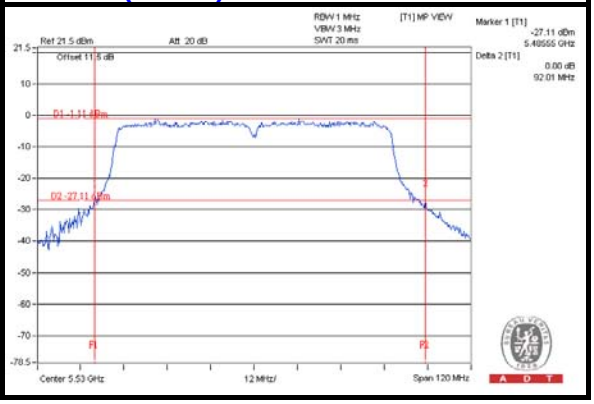
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.47	20.84	21.14	PASS
60	5300	21.37	21.39	21.09	PASS
64	5320	21.13	21.21	21.12	PASS
100	5500	21.38	21.07	21.05	PASS
116	5580	21.85	21.32	20.85	PASS
140	5700	21.01	20.98	20.86	PASS
144	5720	21.56	20.95	20.89	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	50.21	46.41	48.60	PASS
62	5310	49.24	46.73	45.02	PASS
102	5510	49.33	50.51	50.99	PASS
110	5550	53.74	50.33	51.82	PASS
134	5670	51.67	52.56	51.61	PASS
142	5710	52.55	50.78	49.18	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
58	5290	91.22	90.00	86.84	PASS
106	5530	92.01	91.46	86.07	PASS
138	5690	90.60	90.47	87.95	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (20MHz)**
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

TEST MODE E

POWER OUTPUT:

802.11a

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	13.69	12.85	13.68	65.998	18.20	23.00	PASS
60	5300	13.75	13.36	13.99	70.452	18.48	23.00	PASS
64	5320	13.85	13.62	13.86	71.602	18.55	23.00	PASS
100	5500	14.08	14.13	14.23	77.953	18.92	23.00	PASS
116	5580	13.99	13.96	14.01	75.127	18.76	23.00	PASS
140	5700	13.86	13.29	14.26	72.321	18.59	23.00	PASS
144	5720 For U-NII-2C	13.43	13.06	13.88	66.693	18.24	23.00	PASS
144	5720 For U-NII-3	9.31	8.91	9.97	26.242	14.19	24.92	PASS

For U-NII-2A, U-NII-2C:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7-6) = 23dBm.
For U-NII-3:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7-6) = 29dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(21.09) = 24.24 dBm > 23.00dBm
2. 11dBm + 10log(20.08) = 24.03 dBm > 23.00dBm
3. 11dBm + 10log(21.63) = 24.35 dBm > 23.00dBm
4. 11dBm + 10log(20.36) = 24.09 dBm > 23.00dBm
5. 11dBm + 10log(20.12) = 24.04 dBm > 23.00dBm
6. 11dBm + 10log(20.31) = 24.08 dBm > 23.00dBm
7. 11dBm + 10log(5725.00 - 5708.71) = 23.12 dBm > 23.00dBm
8. 17dBm + 10log(5708.71+22.60 - 5725.00) = 25.00 dBm < 29.00 dBm

CHAIN 1
1. 11dBm + 10log(20.11) = 24.03 dBm > 23.00dBm
2. 11dBm + 10log(19.92) = 23.99 dBm > 23.00dBm
3. 11dBm + 10log(19.92) = 23.99 dBm > 23.00dBm
4. 11dBm + 10log(20.05) = 24.02 dBm > 23.00dBm
5. 11dBm + 10log(20.23) = 24.06 dBm > 23.00dBm
6. 11dBm + 10log(20.26) = 24.07 dBm > 23.00dBm
7. 11dBm + 10log(5725.00 - 5708.90) = 23.07 dBm > 23.00dBm
8. 17dBm + 10log(5708.90+22.29 - 5725.00) = 24.92 dBm < 29.00 dBm

CHAIN 2
1. 11dBm + 10log(19.90) = 23.99 dBm > 23.00dBm
2. 11dBm + 10log(20.07) = 24.03 dBm > 23.00dBm
3. 11dBm + 10log(20.14) = 24.04 dBm > 23.00dBm
4. 11dBm + 10log(19.92) = 23.99 dBm > 23.00dBm
5. 11dBm + 10log(20.54) = 24.13 dBm > 23.00dBm
6. 11dBm + 10log(19.65) = 23.93 dBm > 23.00dBm
7. 11dBm + 10log(5725.00 - 5708.56) = 23.16 dBm > 23.00dBm
8. 17dBm + 10log(5708.56+23.12 - 5725.00) = 25.25 dBm < 29.00 dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	14.10	13.16	14.28	73.197	18.64	23.00	PASS
60	5300	14.18	13.65	14.31	76.333	18.83	23.00	PASS
64	5320	14.24	13.98	14.27	78.279	18.94	23.00	PASS
100	5500	14.22	14.17	14.17	78.668	18.96	23.00	PASS
116	5580	14.11	14.02	14.34	78.162	18.93	23.00	PASS
140	5700	14.01	13.56	14.17	73.998	18.69	23.00	PASS
144	5720 For U-NII-2C	13.66	13.09	13.91	68.201	18.34	23.00	PASS
144	5720 For U-NII-3	9.47	8.70	9.78	25.770	14.11	24.76	PASS

For U-NII-2A, U-NII-2C:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7-6) = 23dBm.
For U-NII-3:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7-6) = 29dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(21.12) = 24.25 dBm > 23.00dBm
2. 11dBm + 10log(21.15) = 24.25 dBm > 23.00dBm
3. 11dBm + 10log(21.46) = 24.32 dBm > 23.00dBm
4. 11dBm + 10log(21.25) = 24.27 dBm > 23.00dBm
5. 11dBm + 10log(21.41) = 24.31 dBm > 23.00dBm
6. 11dBm + 10log(21.41) = 24.31 dBm > 23.00dBm
7. 11dBm + 10log(5725.00 - 5708.44) = 23.19 dBm > 23.00dBm
8. 17dBm + 10log(5708.44+22.88 - 5725.00) = 25.01 dBm < 29.00 dBm

CHAIN 1
1. 11dBm + 10log(20.87) = 24.20 dBm > 23.00dBm
2. 11dBm + 10log(21.02) = 24.23 dBm > 23.00dBm
3. 11dBm + 10log(21.25) = 24.27 dBm > 23.00dBm
4. 11dBm + 10log(20.97) = 24.22 dBm > 23.00dBm
5. 11dBm + 10log(20.84) = 24.19 dBm > 23.00dBm
6. 11dBm + 10log(21.41) = 24.31 dBm > 23.00dBm
7. 11dBm + 10log(5725.00 - 5708.59) = 23.15 dBm > 23.00dBm
8. 17dBm + 10log(5708.59+22.38 - 5725.00) = 24.76 dBm < 29.00 dBm

CHAIN 2
1. 11dBm + 10log(20.69) = 24.16 dBm > 23.00dBm
2. 11dBm + 10log(20.76) = 24.17 dBm > 23.00dBm
3. 11dBm + 10log(21.32) = 24.29 dBm > 23.00dBm
4. 11dBm + 10log(20.91) = 24.20 dBm > 23.00dBm
5. 11dBm + 10log(21.23) = 24.27 dBm > 23.00dBm
6. 11dBm + 10log(21.25) = 24.27 dBm > 23.00dBm
7. 11dBm + 10log(5725.00 - 5707.96) = 23.31 dBm > 23.00dBm
8. 17dBm + 10log(5707.96+23.62 - 5725.00) = 25.18 dBm < 29.00 dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	17.93	17.23	18.00	**178.028**	22.50	23.00	PASS
62	5310	16.96	16.60	16.93	144.685	21.60	23.00	PASS
102	5510	13.45	13.45	13.42	66.241	18.21	23.00	PASS
110	5550	17.72	17.71	17.89	**179.694**	22.55	23.00	PASS
134	5670	17.88	17.50	17.91	179.412	22.54	23.00	PASS
142	5710 For U-NII-2C	17.48	17.10	17.84	168.076	22.26	23.00	PASS
142	5710 For U-NII-3	11.00	10.71	11.50	38.490	15.85	26.61	PASS

For U-NII-2A, U-NII-2C:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7-6) = 23dBm.
For U-NII-3:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7-6) = 29dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(46.47) = 27.67 dBm > 23.00dBm
2. 11dBm + 10log(46.48) = 27.67 dBm > 23.00dBm
3. 11dBm + 10log(47.31) = 27.75 dBm > 23.00dBm
4. 11dBm + 10log(46.79) = 27.70 dBm > 23.00dBm
5. 11dBm + 10log(50.68) = 28.05 dBm > 23.00dBm
6. 11dBm + 10log(5725.00 - 5684.15) = 27.11 dBm > 23.00dBm
7. 17dBm + 10log(5684.15+50.04 - 5725.00) = 26.63 dBm < 29.00 dBm

CHAIN 1
1. 11dBm + 10log(46.12) = 27.64 dBm > 23.00dBm
2. 11dBm + 10log(46.37) = 27.66 dBm > 23.00dBm
3. 11dBm + 10log(53.35) = 28.27 dBm > 23.00dBm
4. 11dBm + 10log(46.69) = 27.69 dBm > 23.00dBm
5. 11dBm + 10log(46.40) = 27.67 dBm > 23.00dBm
6. 11dBm + 10log(5725.00 - 5685.13) = 27.01 dBm > 23.00dBm
7. 17dBm + 10log(5685.13+49.02 - 5725.00) = 26.61 dBm < 29.00 dBm

CHAIN 2
1. 11dBm + 10log(44.84) = 27.52 dBm > 23.00dBm
2. 11dBm + 10log(44.89) = 27.52 dBm > 23.00dBm
3. 11dBm + 10log(51.15) = 28.09 dBm > 23.00dBm
4. 11dBm + 10log(47.14) = 27.73 dBm > 23.00dBm
5. 11dBm + 10log(50.16) = 28.00 dBm > 23.00dBm
6. 11dBm + 10log(5725.00 - 5684.95) = 27.03 dBm > 23.00dBm
7. 17dBm + 10log(5684.95+49.35 - 5725.00) = 26.68 dBm < 29.00 dBm

802.11ac (80MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
58	5290	12.15	11.56	12.06	46.797	16.70	23.00	PASS
106	5530	11.56	11.51	11.68	43.203	16.36	23.00	PASS
138	5690 For U-NII-2C	17.51	16.98	18.04	169.932	22.30	23.00	PASS
138	5690 For U-NII-3	8.10	8.51	8.44	20.535	13.12	26.60	PASS

For U-NII-2A, U-NII-2C:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7-6) = 23dBm.
For U-NII-3:
Gain = 7dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7-6) = 29dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(91.92) = 30.63 dBm > 23.00dBm
2. 11dBm + 10log(89.58) = 30.52 dBm > 23.00dBm
3. 11dBm + 10log(5725.00 - 5643.18) = 30.13 dBm > 23.00dBm
4. 17dBm + 10log(5643.18+91.19 - 5725.00) = 26.72 dBm < 29.00 dBm

CHAIN 1
1. 11dBm + 10log(91.24) = 30.60 dBm > 23.00dBm
2. 11dBm + 10log(91.41) = 30.61 dBm > 23.00dBm
3. 11dBm + 10log(5725.00 - 5642.23) = 30.18 dBm > 23.00dBm
4. 17dBm + 10log(5642.23+94.52 - 5725.00) = 27.70 dBm < 29.00 dBm

CHAIN 2
1. 11dBm + 10log(87.28) = 30.41 dBm > 23.00dBm
2. 11dBm + 10log(87.13) = 30.40 dBm > 23.00dBm
3. 11dBm + 10log(5725.00 - 5641.72) = 30.21 dBm > 23.00dBm
4. 17dBm + 10log(5641.72+92.41 - 5725.00) = 26.60 dBm < 29.00 dBm

26dB BANDWIDTH:

802.11a

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.09	20.11	19.90	PASS
60	5300	20.08	19.92	20.07	PASS
64	5320	21.63	19.92	20.14	PASS
100	5500	20.36	20.05	19.92	PASS
116	5580	20.12	20.23	20.54	PASS
140	5700	20.31	20.26	19.65	PASS
144	5720	22.60	22.29	23.12	PASS

802.11n (20MHz)

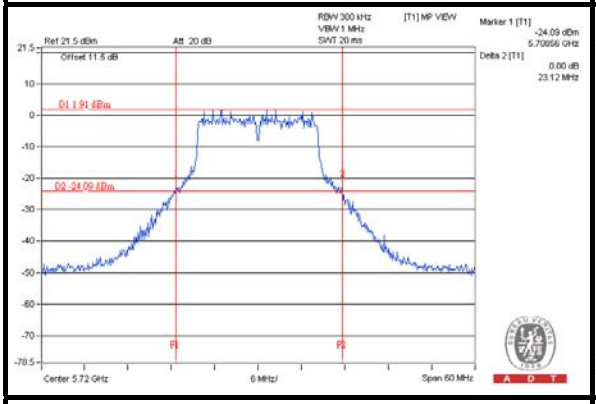
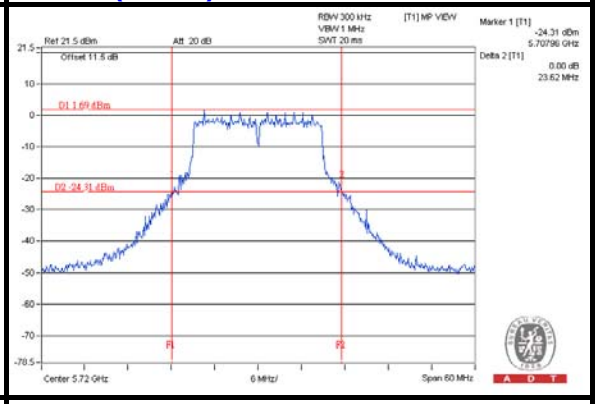
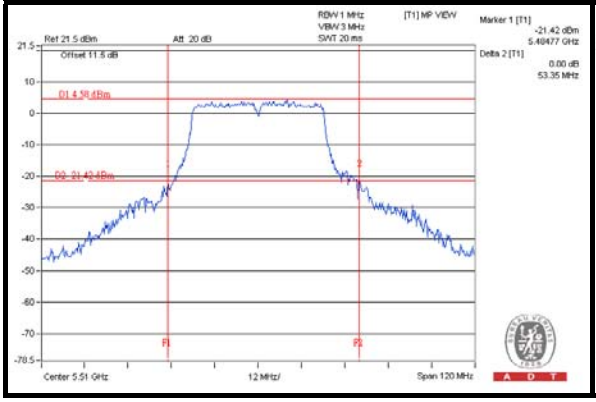
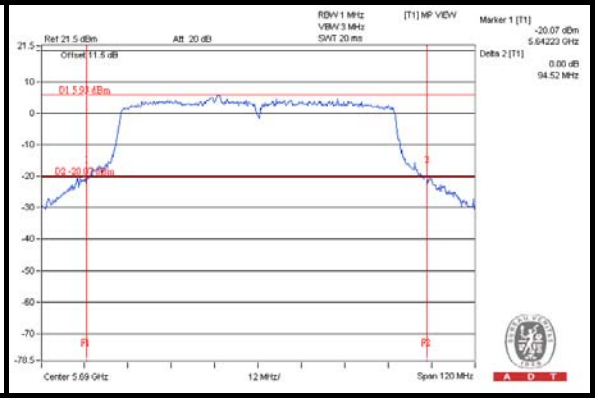
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.12	20.87	20.69	PASS
60	5300	21.15	21.02	20.76	PASS
64	5320	21.46	21.25	21.32	PASS
100	5500	21.25	20.97	20.91	PASS
116	5580	21.41	20.84	21.23	PASS
140	5700	21.41	21.41	21.25	PASS
144	5720	22.88	22.38	23.62	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	46.47	46.12	44.84	PASS
62	5310	46.48	46.37	44.89	PASS
102	5510	47.31	53.35	51.15	PASS
110	5550	46.79	46.69	47.14	PASS
134	5670	50.68	46.40	50.16	PASS
142	5710	50.04	49.02	49.35	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
58	5290	91.92	91.24	87.28	PASS
106	5530	89.58	91.41	87.13	PASS
138	5690	91.19	94.52	92.41	PASS

SPECTRUM PLOT OF WORST VALUE	
802.11a	802.11n (20MHz)
	
802.11n (40MHz)	802.11ac (80MHz)
	

TEST MODE F

POWER OUTPUT:

802.11a

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	13.69	12.85	13.68	65.998	18.20	22.80	PASS
60	5300	13.38	13.24	13.77	66.686	18.24	22.80	PASS
64	5320	13.44	13.30	13.46	65.642	18.17	22.80	PASS
100	5500	13.44	13.43	13.38	65.886	18.19	22.80	PASS
116	5580	13.25	13.11	13.89	66.090	18.20	22.80	PASS
140	5700	13.26	13.01	14.12	67.006	18.26	22.80	PASS
144	5720 For U-NII-2C	13.43	13.06	13.88	66.693	18.24	22.80	PASS
144	5720 For U-NII-3	9.31	8.91	9.97	26.242	14.19	28.80	PASS

For U-NII-2A, U-NII-2C:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7.2-6) = 22.8dBm.
For U-NII-3:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7.2-6) = 28.8dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(20.18) = 24.05 dBm > 22.80dBm
2. 11dBm + 10log(20.35) = 24.09 dBm > 22.80dBm
3. 11dBm + 10log(20.58) = 24.13 dBm > 22.80dBm
4. 11dBm + 10log(19.90) = 23.99 dBm > 22.80dBm
5. 11dBm + 10log(20.39) = 24.09 dBm > 22.80dBm
6. 11dBm + 10log(19.87) = 23.98 dBm > 22.80dBm
7. 11dBm + 10log(5725.00 - 5708.71) = 23.12 dBm > 22.80dBm
8. 17dBm + 10log(5708.71+22.60 - 5725.00) = 25.00 dBm < 28.80 dBm

CHAIN 1
1. 11dBm + 10log(20.41) = 24.10 dBm > 22.80dBm
2. 11dBm + 10log(19.94) = 24.00 dBm > 22.80dBm
3. 11dBm + 10log(20.08) = 24.03 dBm > 22.80dBm
4. 11dBm + 10log(19.66) = 23.94 dBm > 22.80dBm
5. 11dBm + 10log(19.83) = 23.97 dBm > 22.80dBm
6. 11dBm + 10log(20.39) = 24.09 dBm > 22.80dBm
7. 11dBm + 10log(5725.00 - 5708.90) = 23.07 dBm > 22.80dBm
8. 17dBm + 10log(5708.90+22.29 - 5725.00) = 24.92 dBm < 28.80 dBm

CHAIN 2
1. 11dBm + 10log(20.07) = 24.03 dBm > 22.80dBm
2. 11dBm + 10log(20.06) = 24.02 dBm > 22.80dBm
3. 11dBm + 10log(20.35) = 24.09 dBm > 22.80dBm
4. 11dBm + 10log(20.30) = 24.07 dBm > 22.80dBm
5. 11dBm + 10log(19.91) = 23.99 dBm > 22.80dBm
6. 11dBm + 10log(20.33) = 24.08 dBm > 22.80dBm
7. 11dBm + 10log(5725.00 - 5708.56) = 23.16 dBm > 22.80dBm
8. 17dBm + 10log(5708.56+23.12 - 5725.00) = 25.25 dBm < 28.80 dBm

802.11n (20MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
52	5260	13.66	12.97	13.56	65.741	18.18	22.80	PASS
60	5300	13.76	13.32	13.68	68.581	18.36	22.80	PASS
64	5320	13.37	13.19	13.24	63.658	18.04	22.80	PASS
100	5500	13.17	13.27	13.39	63.808	18.05	22.80	PASS
116	5580	13.16	13.36	13.48	64.662	18.11	22.80	PASS
140	5700	13.05	13.20	14.05	66.487	18.23	22.80	PASS
144	5720 For U-NII-2C	13.66	13.09	13.91	68.201	18.34	22.80	PASS
144	5720 For U-NII-3	9.47	8.70	9.78	25.770	14.11	24.76	PASS

For U-NII-2A, U-NII-2C:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7.2-6) = 22.8dBm.
For U-NII-3:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7.2-6) = 28.8dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(21.57) = 24.34 dBm > 22.80dBm
2. 11dBm + 10log(21.22) = 24.27 dBm > 22.80dBm
3. 11dBm + 10log(21.08) = 24.24 dBm > 22.80dBm
4. 11dBm + 10log(21.00) = 24.22 dBm > 22.80dBm
5. 11dBm + 10log(21.12) = 24.25 dBm > 22.80dBm
6. 11dBm + 10log(21.69) = 24.36 dBm > 22.80dBm
7. 11dBm + 10log(5725.00 - 5708.44) = 23.19 dBm > 22.80dBm
8. 17dBm + 10log(5708.44+22.88 - 5725.00) = 25.01 dBm < 28.80 dBm

CHAIN 1
1. 11dBm + 10log(21.08) = 24.24 dBm > 22.80dBm
2. 11dBm + 10log(21.05) = 24.23 dBm > 22.80dBm
3. 11dBm + 10log(21.06) = 24.23 dBm > 22.80dBm
4. 11dBm + 10log(20.90) = 24.20 dBm > 22.80dBm
5. 11dBm + 10log(20.88) = 24.20 dBm > 22.80dBm
6. 11dBm + 10log(21.41) = 24.31 dBm > 22.80dBm
7. 11dBm + 10log(5725.00 - 5708.59) = 23.15 dBm > 22.80dBm
8. 17dBm + 10log(5708.59+22.38 - 5725.00) = 24.76 dBm < 28.80 dBm

CHAIN 2
1. 11dBm + 10log(20.86) = 24.19 dBm > 22.80dBm
2. 11dBm + 10log(21.27) = 24.28 dBm > 22.80dBm
3. 11dBm + 10log(21.12) = 24.25 dBm > 22.80dBm
4. 11dBm + 10log(20.95) = 24.21 dBm > 22.80dBm
5. 11dBm + 10log(21.28) = 24.28 dBm > 22.80dBm
6. 11dBm + 10log(21.09) = 24.24 dBm > 22.80dBm
7. 11dBm + 10log(5725.00 - 5707.96) = 23.31 dBm > 22.80dBm
8. 17dBm + 10log(5707.96+23.62 - 5725.00) = 25.18 dBm < 28.80 dBm

802.11n (40MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
54	5270	17.93	17.23	18.00	**178.028**	22.50	22.8	PASS
62	5310	16.29	16.11	16.54	128.474	21.09	22.80	PASS
102	5510	13.24	13.18	13.13	62.442	17.95	22.80	PASS
110	5550	17.72	17.71	17.89	**179.694**	22.55	22.80	PASS
134	5670	17.88	17.50	17.91	179.412	22.54	22.80	PASS
142	5710 For U-NII-2C	16.52	16.55	17.04	140.643	21.48	22.80	PASS
142	5710 For U-NII-3	11.81	9.80	12.16	41.165	16.15	26.06	PASS

For U-NII-2A, U-NII-2C:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7.2-6) = 22.8dBm.
For U-NII-3:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7.2-6) = 28.8dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(46.62) = 27.69 dBm > 22.80dBm
2. 11dBm + 10log(45.65) = 27.59 dBm > 22.80dBm
3. 11dBm + 10log(45.65) = 27.59 dBm > 22.80dBm
4. 11dBm + 10log(50.67) = 28.05 dBm > 22.80dBm
5. 11dBm + 10log(47.05) = 27.73 dBm > 22.80dBm
6. 11dBm + 10log(5725.00 - 5686.77) = 26.82 dBm > 22.80dBm
7. 17dBm + 10log(5686.77+50.84 - 5725.00) = 28.01 dBm < 28.80 dBm

CHAIN 1
1. 11dBm + 10log(45.46) = 27.58 dBm > 22.80dBm
2. 11dBm + 10log(45.86) = 27.61 dBm > 22.80dBm
3. 11dBm + 10log(50.16) = 28.00 dBm > 22.80dBm
4. 11dBm + 10log(46.17) = 27.64 dBm > 22.80dBm
5. 11dBm + 10log(47.17) = 27.74 dBm > 22.80dBm
6. 11dBm + 10log(5725.00 - 5686.92) = 26.81 dBm > 22.80dBm
7. 17dBm + 10log(5686.92+46.14 - 5725.00) = 26.06 dBm < 28.80 dBm

CHAIN 2
1. 11dBm + 10log(45.75) = 27.60 dBm > 22.80dBm
2. 11dBm + 10log(45.42) = 27.57 dBm > 22.80dBm
3. 11dBm + 10log(48.69) = 27.87 dBm > 22.80dBm
4. 11dBm + 10log(45.36) = 27.57 dBm > 22.80dBm
5. 11dBm + 10log(47.61) = 27.78 dBm > 22.80dBm
6. 11dBm + 10log(5725.00 - 5687.03) = 26.79 dBm > 22.80dBm
7. 17dBm + 10log(5687.03+50.34 - 5725.00) = 27.92 dBm < 28.80 dBm

802.11ac (80MHz)

CHAN.	FREQ. (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2				
58	5290	11.51	11.07	11.63	41.507	16.18	22.80	PASS
106	5530	12.35	12.31	12.37	51.459	17.11	22.80	PASS
138	5690 For U-NII-2C	17.51	16.98	18.04	169.932	22.30	22.80	PASS
138	5690 For U-NII-3	8.10	8.51	8.44	20.535	13.12	28.80	PASS

For U-NII-2A, U-NII-2C:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 24-(7.2-6) = 22.8dBm.
For U-NII-3:
Gain = 7.2dBi > 6dBi, so the conducted power limit shall be reduced to 30-(7.2-6) = 28.8dBm.
NOTE:
For 5260~5720MHz:
CHAIN 0
1. 11dBm + 10log(89.88) = 30.54 dBm > 22.80dBm
2. 11dBm + 10log(92.55) = 30.66 dBm > 22.80dBm
3. 11dBm + 10log(5725.00 - 5643.18) = 30.13 dBm > 22.80dBm
4. 17dBm + 10log(5643.18+91.19 - 5725.00) = 26.72 dBm < 28.80 dBm

CHAIN 1
1. 11dBm + 10log(90.16) = 30.55 dBm > 22.80dBm
2. 11dBm + 10log(91.12) = 30.60 dBm > 22.80dBm
3. 11dBm + 10log(5725.00 - 5642.23) = 30.18 dBm > 22.80dBm
4. 17dBm + 10log(5642.23+94.52 - 5725.00) = 27.70 dBm < 28.80 dBm

CHAIN 2
1. 11dBm + 10log(87.02) = 30.40 dBm > 22.80dBm
2. 11dBm + 10log(86.30) = 30.36 dBm > 22.80dBm
3. 11dBm + 10log(5725.00 - 5641.72) = 30.21 dBm > 22.80dBm
4. 17dBm + 10log(5641.72+92.41 - 5725.00) = 26.60 dBm < 28.80 dBm

26dB BANDWIDTH:

802.11a

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	20.18	20.41	20.07	PASS
60	5300	20.35	19.94	20.06	PASS
64	5320	20.58	20.08	20.35	PASS
100	5500	19.90	19.66	20.30	PASS
116	5580	20.39	19.83	19.91	PASS
140	5700	19.87	20.39	20.33	PASS
144	5720	22.60	22.29	23.12	PASS

802.11n (20MHz)

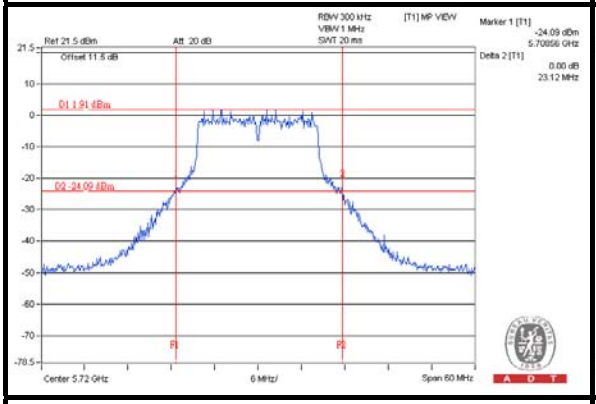
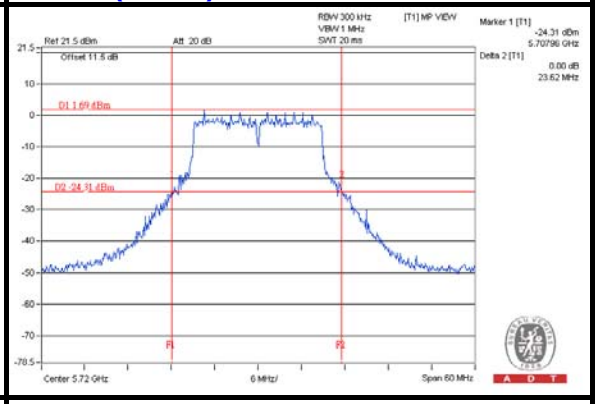
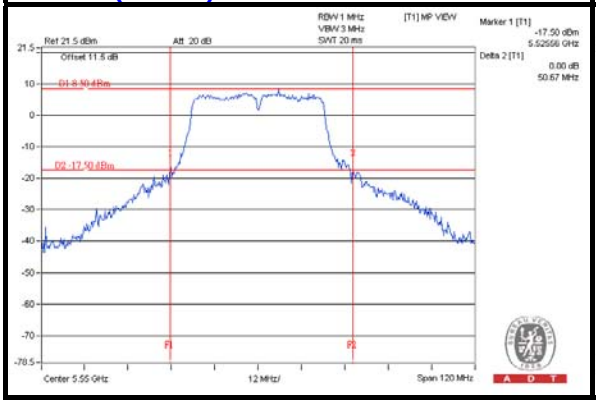
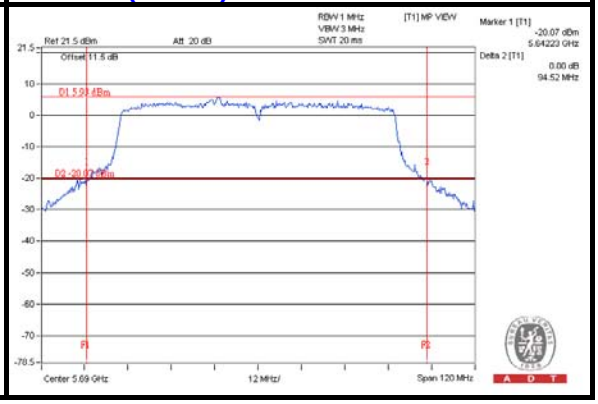
CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
52	5260	21.57	21.08	20.86	PASS
60	5300	21.22	21.05	21.27	PASS
64	5320	21.08	21.06	21.12	PASS
100	5500	21.00	20.90	20.95	PASS
116	5580	21.12	20.88	21.28	PASS
140	5700	21.69	21.41	21.09	PASS
144	5720	22.88	22.38	23.62	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
54	5270	46.62	45.46	45.75	PASS
62	5310	45.65	45.86	45.42	PASS
102	5510	45.65	50.16	48.69	PASS
110	5550	50.67	46.17	45.36	PASS
134	5670	47.05	47.17	47.61	PASS
142	5710	50.14	46.14	50.34	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)			PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	
58	5290	89.88	90.16	87.02	PASS
106	5530	92.55	91.12	86.30	PASS
138	5690	91.19	94.52	92.41	PASS

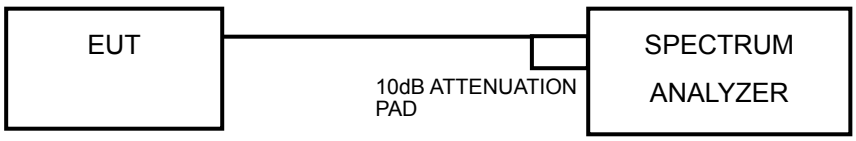
SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (20MHz)**
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√	---	11dBm/ MHz
U-NII-2C	√	---	11dBm/ MHz
U-NII-3	√	---	30dBm/ 500kHz

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

For U-NII-2A, U-NII-2C band:

Using method SA-2

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 30 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 500 kHz, Set VBW ≥ 3 RBW, 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 and add 10 log (1/duty cycle)
6) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log(500kHz/30kHz)

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

For U-NII-2A, U-NII-2C band:

TEST MODE A

802.11a

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	CHAIN 2					
52	5260	2.37	0.78	1.63	6.42	0.12	6.54	7.23	PASS
60	5300	2.10	1.45	1.78	6.56	0.12	6.68	7.23	PASS
64	5320	2.21	1.67	2.10	6.77	0.12	6.89	7.23	PASS
100	5500	2.25	1.88	2.38	6.95	0.12	7.07	7.23	PASS
116	5580	2.11	1.84	2.59	6.97	0.12	7.09	7.23	PASS
140	5700	2.20	1.82	2.05	6.80	0.12	6.92	7.23	PASS
144	5720 For U-NII-2C	1.93	1.27	2.24	6.60	0.14	6.74	7.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 11-(9.77-6) = 7.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

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	CHAIN 2					
52	5260	1.50	1.54	1.78	6.38	0.13	6.51	7.23	PASS
60	5300	1.90	1.34	1.84	6.47	0.13	6.60	7.23	PASS
64	5320	1.80	1.64	2.03	6.60	0.13	6.73	7.23	PASS
100	5500	2.26	1.88	2.27	6.91	0.13	7.04	7.23	PASS
116	5580	1.67	1.07	2.36	6.49	0.13	6.64	7.23	PASS
140	5700	1.74	1.52	2.17	6.59	0.13	6.72	7.23	PASS
144	5720 For U-NII-2C	2.21	2.10	2.62	7.09	0.13	7.22	7.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 11-(9.77-6) = 7.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

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	CHAIN 2					
54	5270	2.49	1.74	1.99	6.85	0.27	7.12	7.23	PASS
62	5310	-0.08	-0.42	-0.34	4.49	0.27	4.76	7.23	PASS
102	5510	-3.79	-3.92	-3.93	0.89	0.27	1.16	7.23	PASS
110	5550	2.39	1.91	1.98	6.87	0.27	7.14	7.23	PASS
134	5670	2.03	1.77	1.50	6.54	0.27	6.81	7.23	PASS
142	5710 For U-NII-2C	1.31	0.51	1.46	5.88	0.27	6.15	7.23	PASS

NOTE:

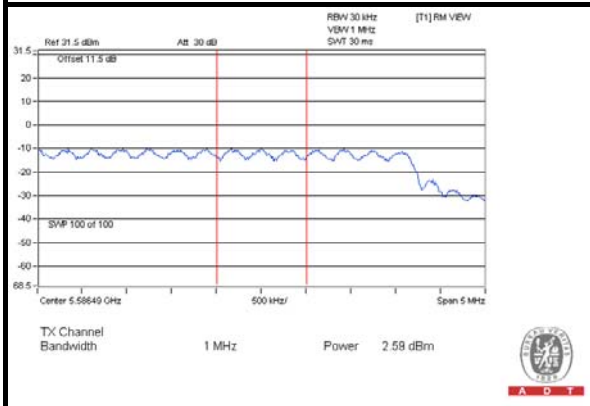
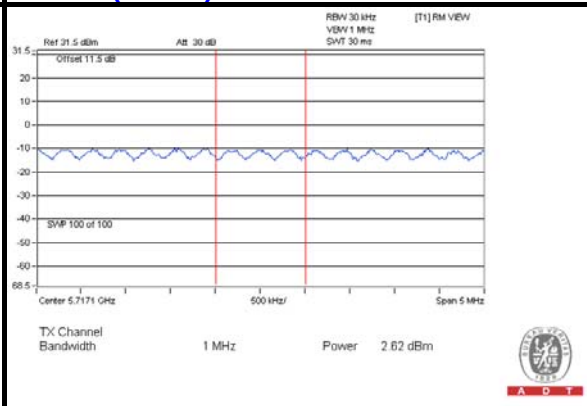
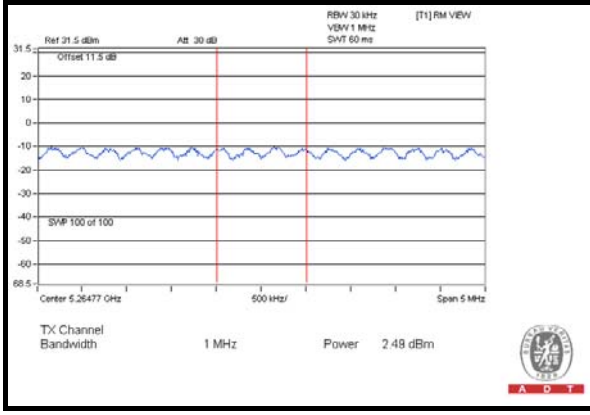
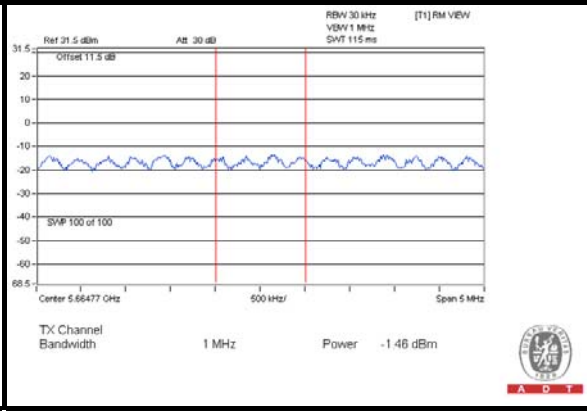
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 11-(9.77-6) = 7.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

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	CHAIN 2					
58	5290	-9.26	-9.74	-9.41	-4.69	0.50	-4.19	7.23	PASS
106	5530	-9.47	-8.80	-9.52	-4.48	0.50	-3.98	7.23	PASS
138	5690 For U-NII-2C	-1.46	-2.46	-1.61	2.95	0.55	3.50	7.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 11-(9.77-6) = 7.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE	
802.11a	**802.11n (20MHz)**
	
802.11n (40MHz)	**802.11ac (80MHz)**
	

TEST MODE B

802.11a

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	CHAIN 2					
52	5260	-4.18	-4.48	-4.13	0.51	0.14	0.65	0.73	PASS
60	5300	-4.15	-4.41	-4.16	0.53	0.14	0.67	0.73	PASS
64	5320	-4.16	-4.25	-4.39	0.50	0.14	0.64	0.73	PASS
100	5500	-4.16	-4.36	-4.57	0.41	0.14	0.55	0.73	PASS
116	5580	-4.04	-4.69	-4.22	0.46	0.14	0.60	0.73	PASS
140	5700	-4.23	-4.57	-4.23	0.43	0.14	0.57	0.73	PASS
144	5720 For U-NII-2C	-4.35	-4.98	-4.11	0.31	0.12	0.43	0.73	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 11-(16.27-6) = 0.73dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

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	CHAIN 2					
52	5260	-3.88	-4.62	-4.22	0.54	0.14	0.68	0.73	PASS
60	5300	-4.38	-4.62	-4.49	0.27	0.14	0.41	0.73	PASS
64	5320	-4.41	-4.52	-4.41	0.32	0.14	0.46	0.73	PASS
100	5500	-4.49	-4.38	-4.43	0.34	0.14	0.48	0.73	PASS
116	5580	-4.22	-4.14	-4.28	0.56	0.14	0.70	0.73	PASS
140	5700	-4.28	-4.19	-4.19	0.55	0.14	0.69	0.73	PASS
144	5720 For U-NII-2C	-4.91	-4.67	-4.16	0.20	0.13	0.33	0.73	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 11-(16.27-6) = 0.73dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

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	CHAIN 2					
54	5270	-4.55	-4.64	-4.51	0.21	0.33	0.54	0.73	PASS
62	5310	-5.81	-6.62	-6.29	-1.45	0.33	-1.12	0.73	PASS
102	5510	-6.28	-6.04	-6.30	-1.43	0.33	-1.10	0.73	PASS
110	5550	-4.50	-4.56	-4.59	0.22	0.33	0.55	0.73	PASS
134	5670	-4.58	-4.48	-4.22	0.35	0.33	0.68	0.73	PASS
142	5710 For U-NII-2C	-4.29	-5.11	-4.25	0.24	0.28	0.52	0.73	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 11-(16.27-6) = 0.73dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

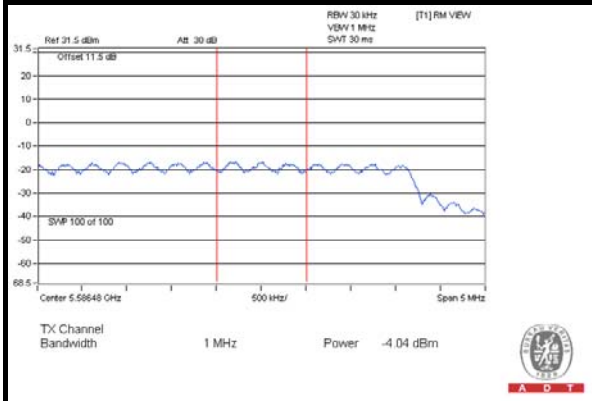
CHAN.	FREQ. (MHz)	PSD (dBm)			TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2					
58	5290	-11.02	-11.79	-11.72	-6.72	0.67	-6.05	0.73	PASS
106	5530	-14.20	-15.88	-14.47	-10.02	0.67	-9.35	0.73	PASS
138	5690 For U-NII-2C	-4.58	-5.54	-4.61	-0.12	0.59	0.47	0.73	PASS

NOTE:

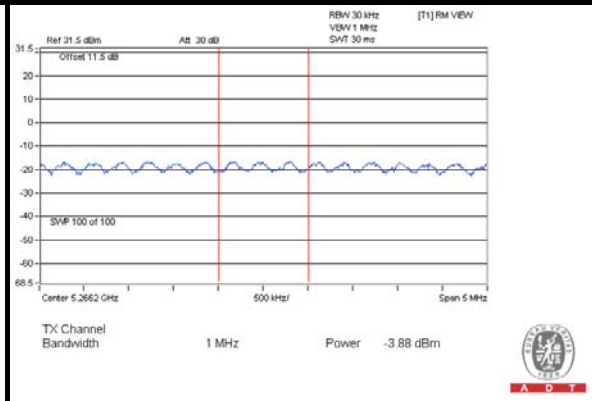
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 11-(16.27-6) = 0.73dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

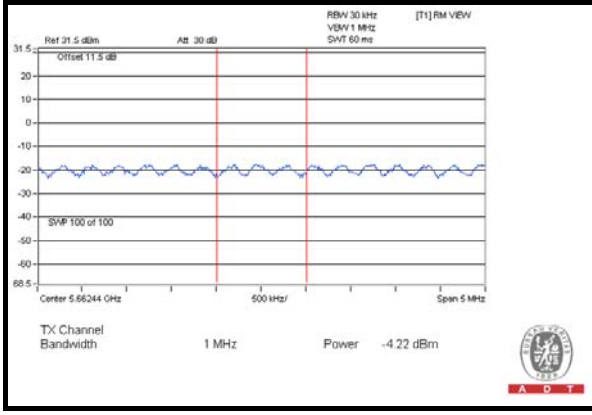
802.11a



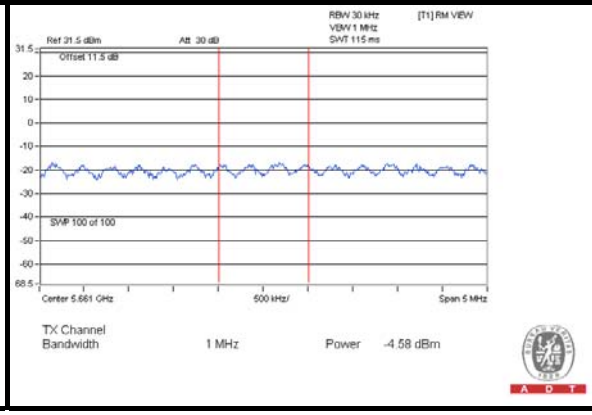
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE C

802.11a

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	CHAIN 2					
52	5260	-0.93	-1.15	-0.99	3.75	0.13	3.88	4.23	PASS
60	5300	-0.29	-1.33	-0.84	3.97	0.13	4.10	4.23	PASS
64	5320	-0.30	-1.02	-0.78	4.08	0.13	4.21	4.23	PASS
100	5500	-0.40	-0.84	-0.83	4.08	0.13	4.21	4.23	PASS
116	5580	-0.59	-0.80	-0.77	4.05	0.13	4.18	4.23	PASS
140	5700	-0.59	-0.97	-0.73	4.01	0.13	4.14	4.23	PASS
144	5720 For U-NII-2C	-0.85	-1.14	-0.65	3.90	0.14	4.04	4.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 11-(12.77-6) = 4.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

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	CHAIN 2					
52	5260	-0.80	-1.77	-0.92	3.63	0.13	3.76	4.23	PASS
60	5300	-0.92	-1.13	-1.25	3.67	0.13	3.81	4.23	PASS
64	5320	-0.97	-1.02	-0.85	3.83	0.13	3.96	4.23	PASS
100	5500	-0.95	-0.70	-0.88	3.93	0.13	4.06	4.23	PASS
116	5580	-0.82	-1.04	-0.42	4.02	0.13	4.15	4.23	PASS
140	5700	-0.95	-1.22	-0.44	3.91	0.13	4.05	4.23	PASS
144	5720 For U-NII-2C	-1.20	-1.33	-0.46	3.79	0.14	3.93	4.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 11-(12.77-6) = 4.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

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	CHAIN 2					
54	5270	-0.78	-1.83	-1.39	3.46	0.28	3.74	4.23	PASS
62	5310	-0.49	-1.06	-1.15	3.88	0.28	4.16	4.23	PASS
102	5510	-4.47	-5.19	-5.23	-0.18	0.28	0.10	4.23	PASS
110	5550	-0.64	-1.36	-0.67	3.89	0.28	4.17	4.23	PASS
134	5670	-0.55	-1.32	-1.09	3.79	0.28	4.07	4.23	PASS
142	5710 For U-NII-2C	-0.80	-0.91	-0.81	3.93	0.28	4.21	4.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 11-(12.77-6) = 4.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

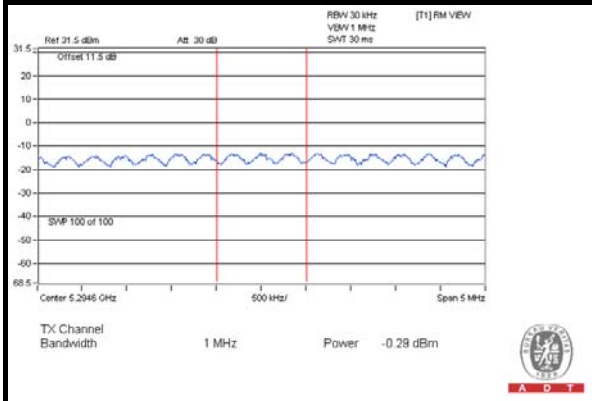
CHAN.	FREQ. (MHz)	PSD (dBm)			TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2					
58	5290	-9.49	-9.90	-10.09	-5.04	0.50	-4.54	4.23	PASS
106	5530	-9.92	-10.07	-10.08	-5.24	0.50	-4.74	4.23	PASS
138	5690 For U-NII-2C	-3.59	-4.25	-3.43	1.03	0.51	1.54	4.23	PASS

NOTE:

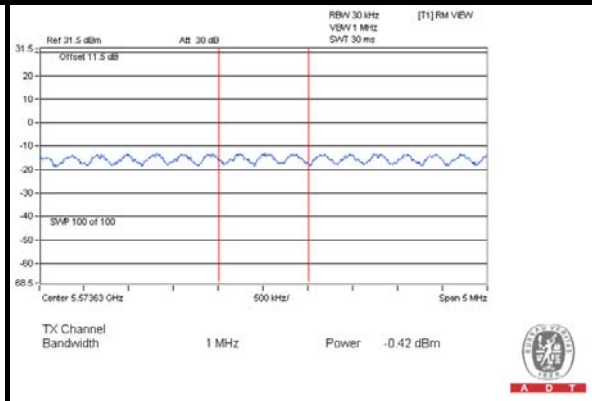
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 11-(12.77-6) = 4.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

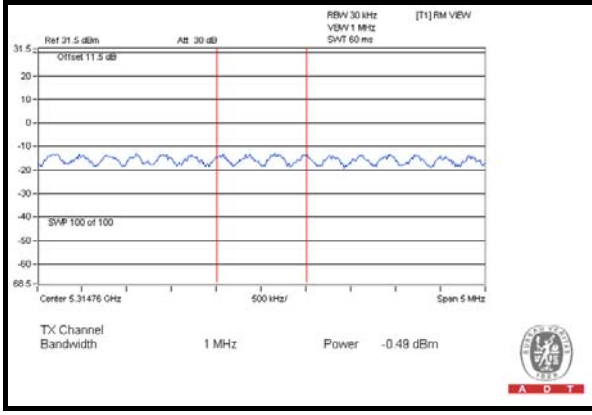
802.11a



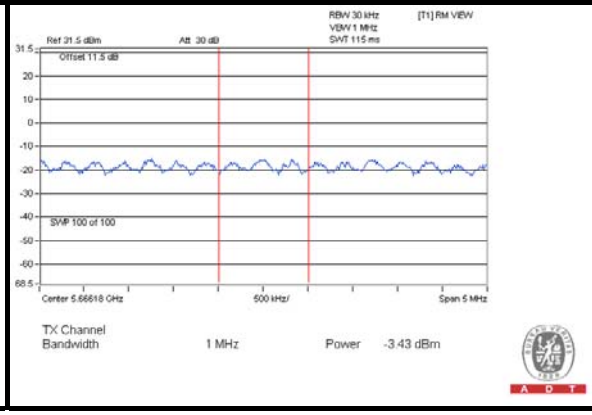
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE D

802.11a

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	CHAIN 2					
52	5260	4.92	4.80	4.91	9.65	0.13	9.78	10.23	PASS
60	5300	5.17	4.65	5.01	9.72	0.13	9.85	10.23	PASS
64	5320	5.37	4.97	4.98	9.88	0.13	10.01	10.23	PASS
100	5500	3.79	4.79	3.94	8.97	0.13	9.10	10.23	PASS
116	5580	5.05	5.28	5.14	9.93	0.13	10.06	10.23	PASS
140	5700	4.52	3.99	4.87	9.24	0.13	9.37	10.23	PASS
144	5720 For U-NII-2C	4.19	4.14	5.12	9.28	0.13	9.41	10.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 11-(6.77-6) = 10.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

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	CHAIN 2					
52	5260	4.91	4.09	4.90	9.42	0.14	9.56	10.23	PASS
60	5300	4.98	4.18	5.07	9.53	0.14	9.67	10.23	PASS
64	5320	4.69	4.11	4.90	9.35	0.14	9.49	10.23	PASS
100	5500	3.93	3.84	3.60	8.56	0.14	8.70	10.23	PASS
116	5580	4.70	4.32	4.95	9.43	0.14	9.57	10.23	PASS
140	5700	2.07	1.87	2.80	7.03	0.14	7.17	10.23	PASS
144	5720 For U-NII-2C	3.71	3.64	5.27	9.05	0.13	9.18	10.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 11-(6.77-6) = 10.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

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	CHAIN 2					
54	5270	2.34	1.47	2.17	6.78	0.27	7.05	10.23	PASS
62	5310	0.04	-0.91	-0.32	4.39	0.27	4.66	10.23	PASS
102	5510	-4.68	-4.73	-4.99	-0.03	0.27	0.24	10.23	PASS
110	5550	1.69	1.84	2.00	6.62	0.27	6.89	10.23	PASS
134	5670	1.57	0.62	1.51	6.03	0.27	6.29	10.23	PASS
142	5710 For U-NII-2C	1.95	1.72	2.18	6.73	0.29	7.02	10.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 11-(6.77-6) = 10.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

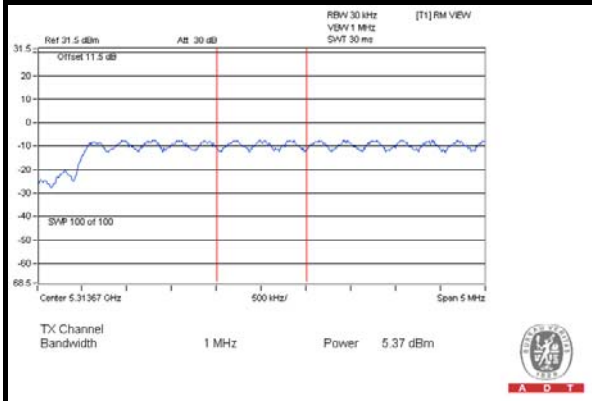
CHAN.	FREQ. (MHz)	PSD (dBm)			TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2					
58	5290	-9.01	-9.99	-9.33	-4.65	0.54	-4.11	10.23	PASS
106	5530	-10.13	-11.05	-10.65	-5.82	0.54	-5.28	10.23	PASS
138	5690 For U-NII-2C	-1.14	-3.38	-1.08	3.03	0.55	3.58	10.23	PASS

NOTE:

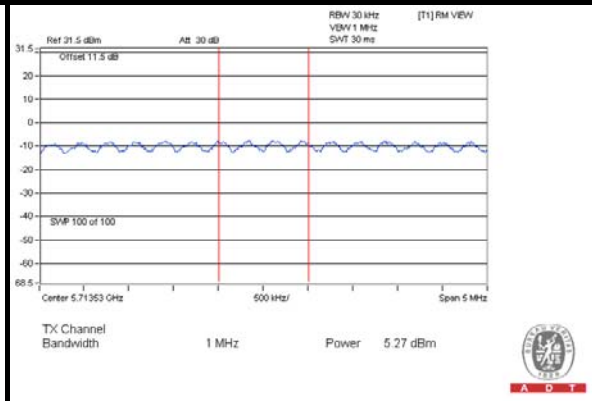
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 11-(6.77-6) = 10.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

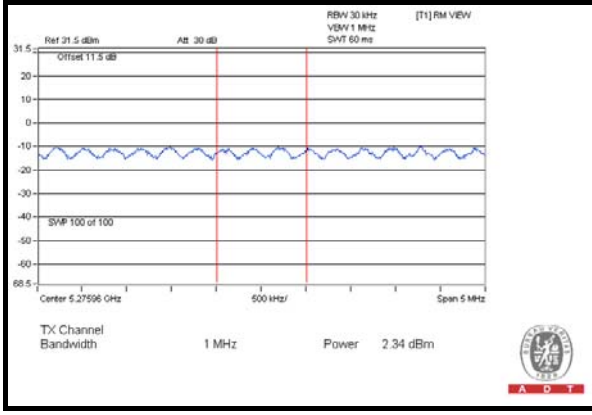
802.11a



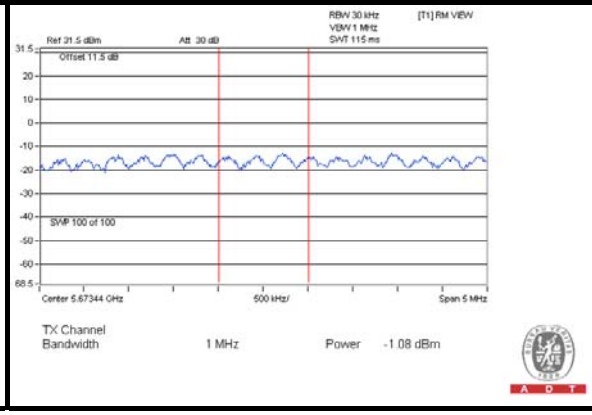
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE E

802.11a

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	CHAIN 2					
52	5260	0.37	0.07	0.38	5.04	0.13	5.17	5.23	PASS
60	5300	0.31	0.06	0.07	4.92	0.13	5.05	5.23	PASS
64	5320	0.31	0.28	0.32	5.07	0.13	5.20	5.23	PASS
100	5500	-0.76	-0.50	-0.21	4.28	0.13	4.41	5.23	PASS
116	5580	-0.87	-1.13	-0.49	3.95	0.13	4.08	5.23	PASS
140	5700	-0.79	-1.30	-0.50	3.92	0.13	4.05	5.23	PASS
144	5720 For U-NII-2C	0.36	-0.68	0.29	4.79	0.14	4.93	5.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 11-(11.77-6) = 5.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

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	CHAIN 2					
52	5260	-0.19	-0.91	-0.42	4.27	0.14	4.41	5.23	PASS
60	5300	0.15	-0.24	-0.01	4.74	0.14	4.88	5.23	PASS
64	5320	0.42	0.25	-0.20	4.94	0.14	5.07	5.23	PASS
100	5500	-0.71	-0.71	-0.95	3.98	0.14	4.12	5.23	PASS
116	5580	-1.35	-1.14	-0.76	3.69	0.14	3.83	5.23	PASS
140	5700	-1.54	-1.69	-0.83	3.43	0.14	3.57	5.23	PASS
144	5720 For U-NII-2C	0.51	0.05	-0.30	4.87	0.14	5.01	5.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 11-(11.77-6) = 5.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

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	CHAIN 2					
54	5270	0.27	-0.05	0.25	4.93	0.25	5.18	5.23	PASS
62	5310	0.23	-0.05	0.22	4.91	0.25	5.15	5.23	PASS
102	5510	-3.90	-4.38	-4.36	0.56	0.25	0.81	5.23	PASS
110	5550	0.08	-0.22	0.23	4.81	0.25	5.05	5.23	PASS
134	5670	0.12	-0.29	0.48	4.89	0.25	5.13	5.23	PASS
142	5710 For U-NII-2C	0.00	-0.42	0.44	4.79	0.31	5.10	5.23	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 11-(11.77-6) = 5.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

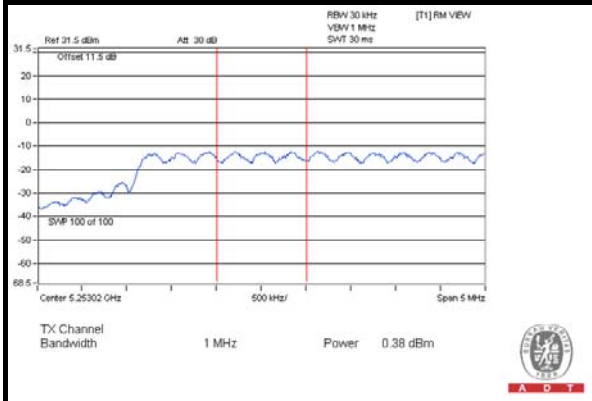
CHAN.	FREQ. (MHz)	PSD (dBm)			TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2					
58	5290	-8.43	-9.08	-8.89	-4.02	0.51	-3.51	5.23	PASS
106	5530	-9.99	-9.65	-9.97	-5.10	0.51	-4.59	5.23	PASS
138	5690 For U-NII-2C	-3.96	-4.08	-3.41	0.96	0.54	1.50	5.23	PASS

NOTE:

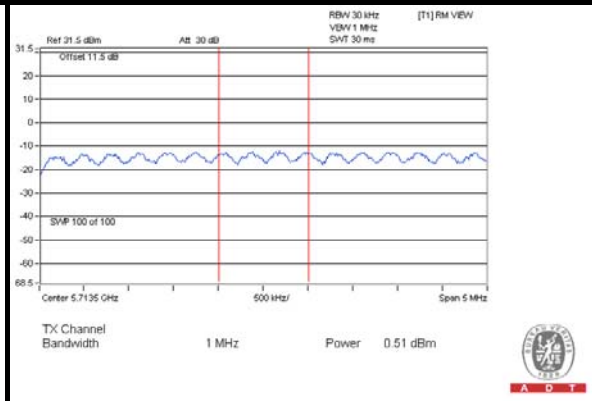
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 11-(11.77-6) = 5.23dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

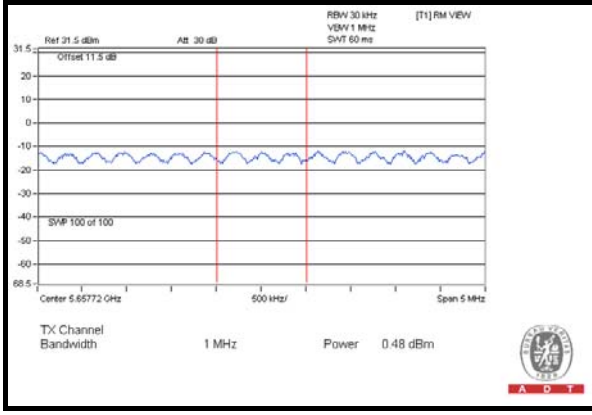
802.11a



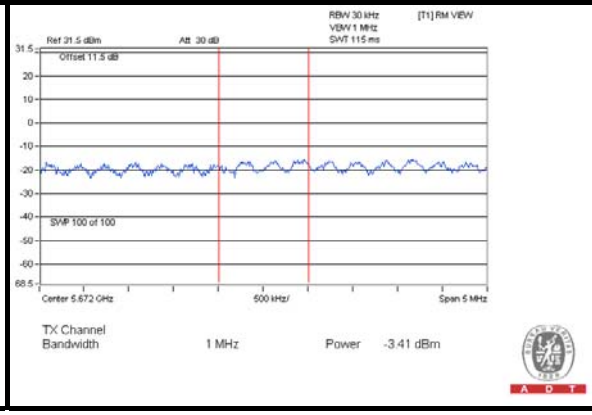
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE F

802.11a

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	CHAIN 2					
52	5260	0.35	-0.66	-0.43	4.55	0.16	4.71	5.03	PASS
60	5300	-0.21	-0.55	-0.22	4.45	0.16	4.61	5.03	PASS
64	5320	-0.12	-0.12	-0.28	4.60	0.16	4.76	5.03	PASS
100	5500	0.19	-0.22	0.01	4.77	0.16	4.93	5.03	PASS
116	5580	-0.04	-0.01	-0.12	4.71	0.16	4.87	5.03	PASS
140	5700	-1.15	-1.37	-0.38	3.82	0.16	3.98	5.03	PASS
144	5720 For U-NII-2C	0.36	-0.68	0.29	4.79	0.14	4.93	5.03	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 11-(11.97-6) = 5.03dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

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	CHAIN 2					
52	5260	0.24	-1.08	0.06	4.55	0.18	4.73	5.03	PASS
60	5300	0.27	-0.37	0.05	4.76	0.18	4.94	5.03	PASS
64	5320	-0.39	-0.43	-0.61	4.30	0.18	4.48	5.03	PASS
100	5500	-0.26	-0.11	-0.71	4.42	0.18	4.60	5.03	PASS
116	5580	-0.46	-0.64	0.03	4.43	0.18	4.61	5.03	PASS
140	5700	-1.28	-1.70	-0.65	3.58	0.18	3.76	5.03	PASS
144	5720 For U-NII-2C	0.51	0.05	-0.30	4.87	0.14	5.01	5.03	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 11-(11.97-6) = 5.03dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

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	CHAIN 2					
54	5270	-0.04	-0.13	0.04	4.73	0.28	5.01	5.03	PASS
62	5310	-0.37	-0.86	-0.76	4.12	0.28	4.40	5.03	PASS
102	5510	-4.68	-4.41	-5.05	0.07	0.28	0.35	5.03	PASS
110	5550	-0.77	-0.51	-0.69	4.12	0.28	4.40	5.03	PASS
134	5670	-0.32	-1.38	-0.73	3.99	0.28	4.27	5.03	PASS
142	5710 For U-NII-2C	-0.06	-0.62	0.24	4.64	0.27	4.91	5.03	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. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 11-(11.97-6) = 5.03dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

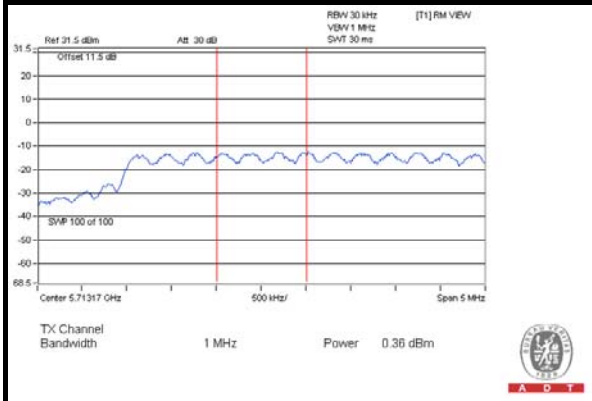
CHAN.	FREQ. (MHz)	PSD (dBm)			TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2					
58	5290	-9.33	-10.06	-9.49	-4.85	0.56	-4.29	5.03	PASS
106	5530	-9.25	-10.26	-9.43	-4.86	0.56	-4.30	5.03	PASS
138	5690 For U-NII-2C	-3.96	-4.08	-3.41	0.96	0.54	1.50	5.03	PASS

NOTE:

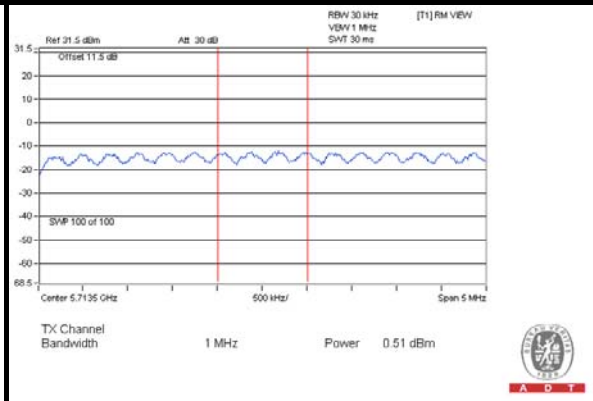
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. **For U-NII-2A, U-NII-2C Band:**
   Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 11-(11.97-6) = 5.03dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

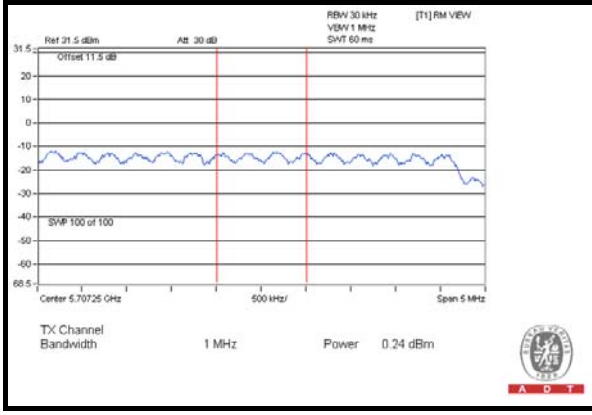
802.11a



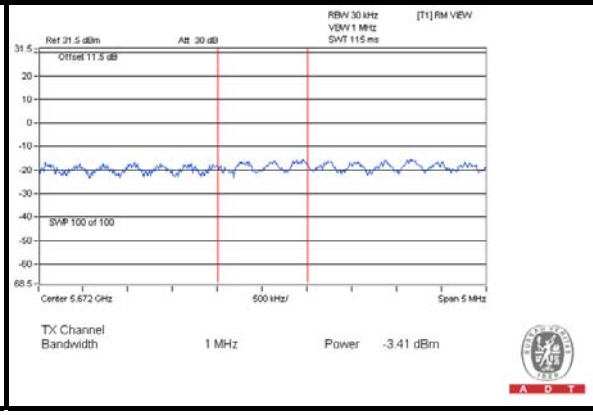
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



For U-NII-3 band

TEST MODE A

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	1.36	13.58	4.77	0.14	18.49	26.23	PASS
1	144	5720	0.69	12.91	4.77	0.14	17.82	26.23	PASS
2	144	5720	1.49	13.71	4.77	0.14	18.62	26.23	PASS

NOTE:
1. Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 30-(9.77-6) = 26.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	1.33	13.55	4.77	0.13	18.45	26.23	PASS
1	144	5720	0.19	12.41	4.77	0.13	17.31	26.23	PASS
2	144	5720	2.52	14.74	4.77	0.13	19.64	26.23	PASS

NOTE:
1. Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 30-(9.77-6) = 26.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	142	5710	-0.36	11.86	4.77	0.27	16.90	26.23	PASS
1	142	5710	-0.37	11.85	4.77	0.27	16.89	26.23	PASS
2	142	5710	-0.33	11.89	4.77	0.27	16.93	26.23	PASS

NOTE:
1. Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 30-(9.77-6) = 26.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

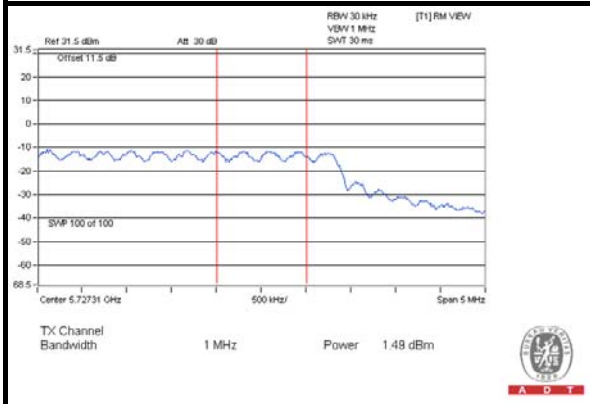
TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	138	5690	-3.52	8.70	4.77	0.54	14.01	26.23	PASS
1	138	5690	-4.06	8.16	4.77	0.54	13.47	26.23	PASS
2	138	5690	-3.62	8.60	4.77	0.54	13.91	26.23	PASS

NOTE:

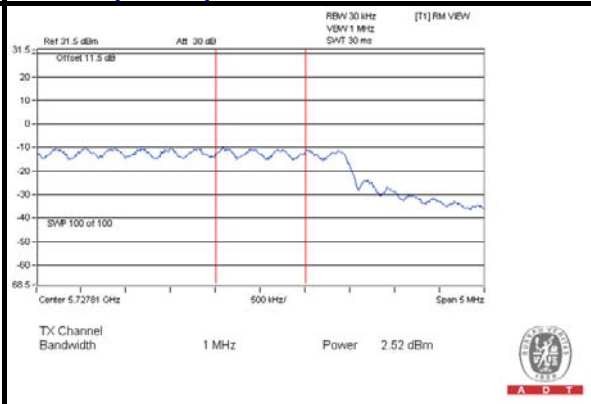
1. Directional gain = 5dBi + 10log(3) = 9.77dBi > 6dBi, so the power density limit shall be reduced to 30-(9.77-6) = 26.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

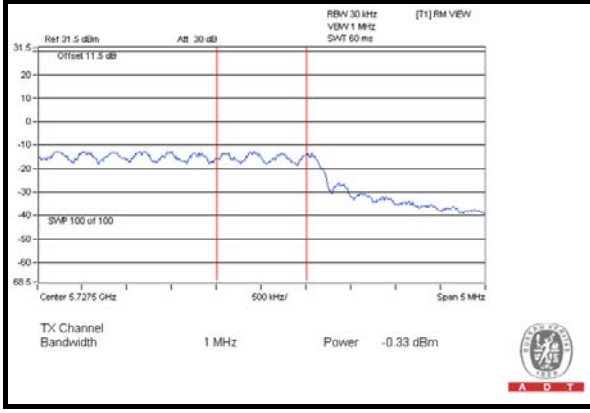
802.11a



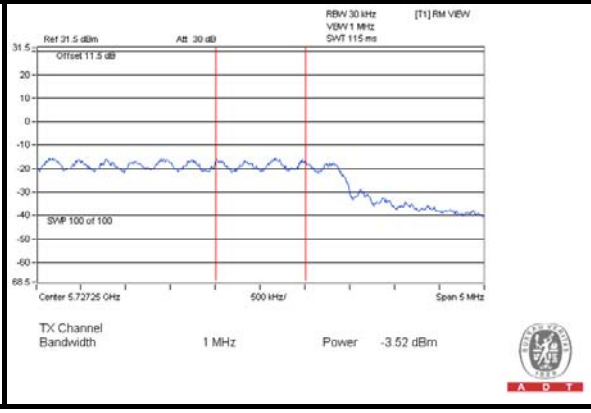
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE B

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-4.89	7.33	4.77	0.12	12.22	19.73	PASS
1	144	5720	-5.21	7.01	4.77	0.12	11.90	19.73	PASS
2	144	5720	-4.47	7.75	4.77	0.12	12.64	19.73	PASS

NOTE:
1. Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 30-(16.27-6) = 19.73dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-4.87	7.35	4.77	0.13	12.25	19.73	PASS
1	144	5720	-4.94	7.28	4.77	0.13	12.18	19.73	PASS
2	144	5720	-4.73	7.49	4.77	0.13	12.39	19.73	PASS

NOTE:
1. Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 30-(16.27-6) = 19.73dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	142	5710	-5.53	6.69	4.77	0.28	11.74	19.73	PASS
1	142	5710	-5.94	6.28	4.77	0.28	11.33	19.73	PASS
2	142	5710	-5.37	6.85	4.77	0.28	11.90	19.73	PASS

NOTE:
1. Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 30-(16.27-6) = 19.73dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

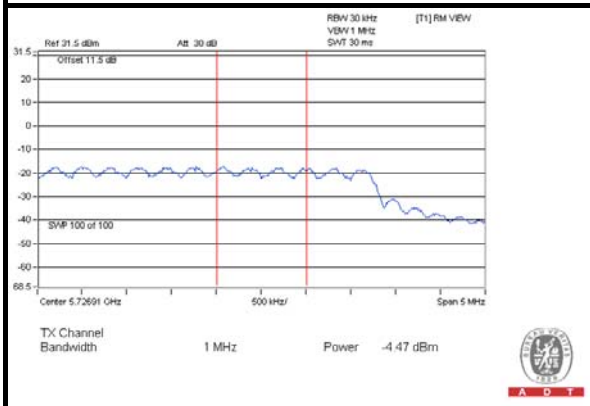
TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	138	5690	-6.94	5.28	4.77	0.59	10.64	19.73	PASS
1	138	5690	-6.68	5.54	4.77	0.59	10.90	19.73	PASS
2	138	5690	-7.10	5.12	4.77	0.59	10.48	19.73	PASS

NOTE:

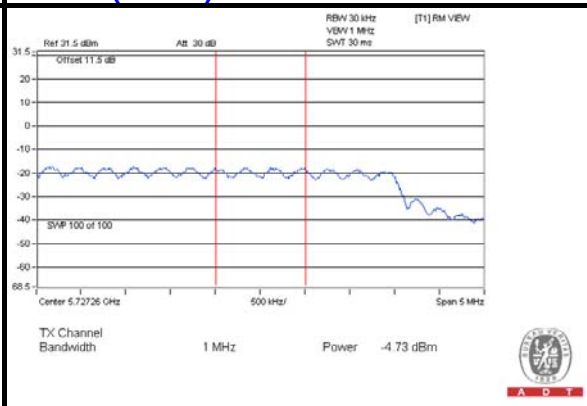
1. Directional gain = 11.5dBi + 10log(3) = 16.27dBi > 6dBi, so the power density limit shall be reduced to 30-(16.27-6) = 19.73dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

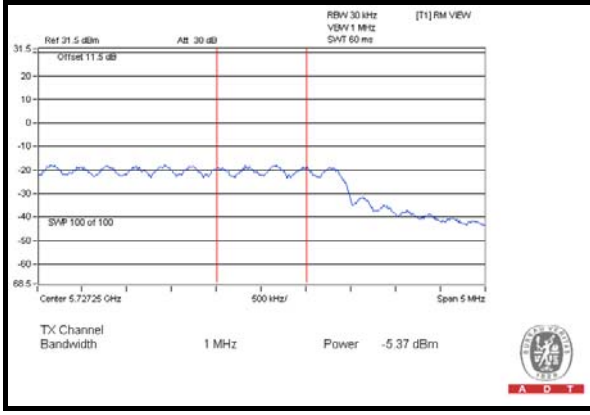
802.11a



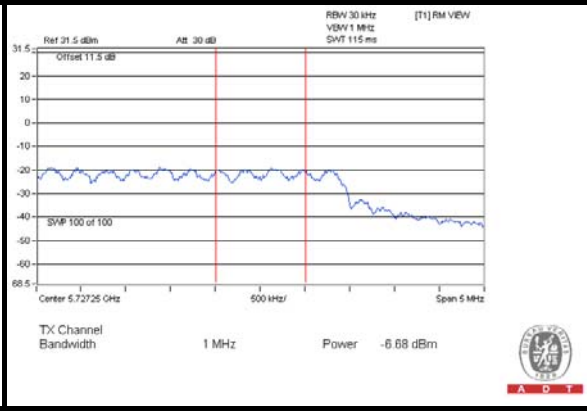
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE C

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-1.94	10.28	4.77	0.14	15.19	23.23	PASS
1	144	5720	-2.18	10.04	4.77	0.14	14.95	23.23	PASS
2	144	5720	-1.10	11.12	4.77	0.14	16.03	23.23	PASS

NOTE:
1. Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 30-(12.77-6) = 23.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-0.86	11.36	4.77	0.14	16.27	23.23	PASS
1	144	5720	-1.30	10.92	4.77	0.14	15.83	23.23	PASS
2	144	5720	-1.14	11.08	4.77	0.14	15.99	23.23	PASS

NOTE:
1. Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 30-(12.77-6) = 23.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	142	5710	-2.53	9.69	4.77	0.28	14.74	23.23	PASS
1	142	5710	-3.46	8.76	4.77	0.28	13.81	23.23	PASS
2	142	5710	-1.77	10.45	4.77	0.28	15.50	23.23	PASS

NOTE:
1. Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 30-(12.77-6) = 23.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

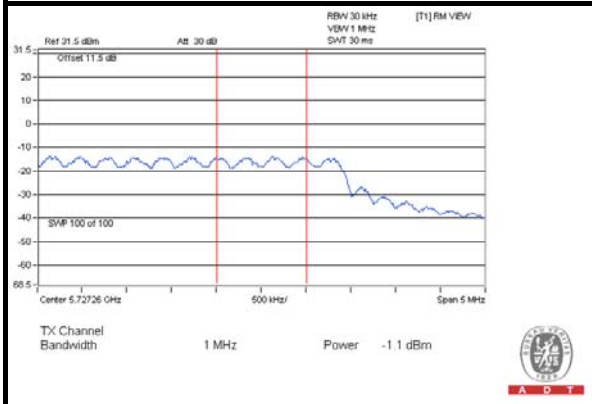
TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	138	5690	-5.64	6.58	4.77	0.51	11.86	23.23	PASS
1	138	5690	-6.73	5.49	4.77	0.51	10.77	23.23	PASS
2	138	5690	-5.65	6.57	4.77	0.51	11.85	23.23	PASS

NOTE:

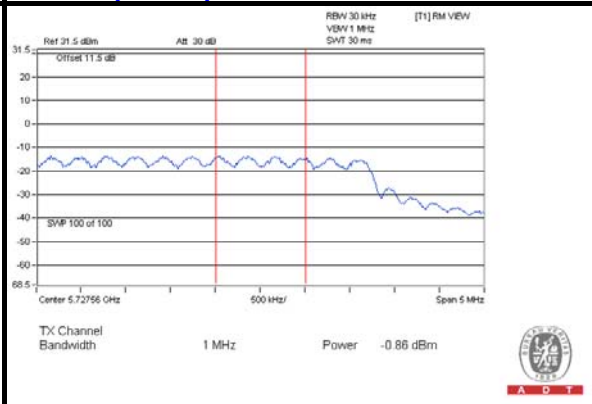
1. Directional gain = 8dBi + 10log(3) = 12.77dBi > 6dBi, so the power density limit shall be reduced to 30-(12.77-6) = 23.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

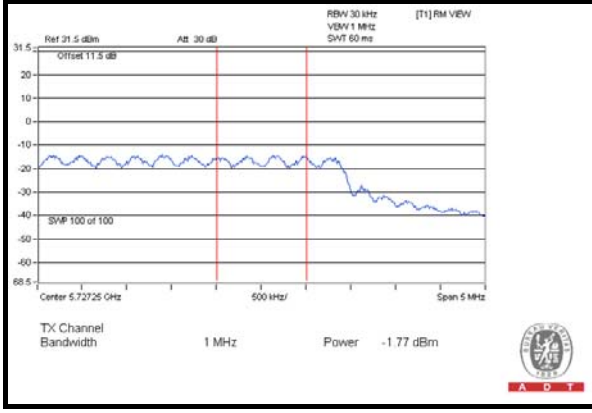
802.11a



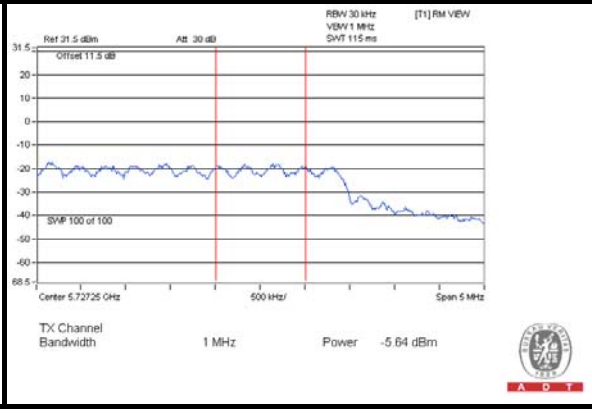
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE D

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	3.06	15.28	4.77	0.13	20.18	29.23	PASS
1	144	5720	2.97	15.19	4.77	0.13	20.09	29.23	PASS
2	144	5720	4.45	16.67	4.77	0.13	21.57	29.23	PASS

NOTE:
1. Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 30-(6.77-6) = 29.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	2.94	15.16	4.77	0.13	20.06	29.23	PASS
1	144	5720	3.17	15.39	4.77	0.13	20.29	29.23	PASS
2	144	5720	4.40	16.66	4.77	0.13	21.56	29.23	PASS

NOTE:
1. Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 30-(6.77-6) = 29.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	142	5710	0.69	12.91	4.77	0.29	17.97	29.23	PASS
1	142	5710	-0.77	11.45	4.77	0.29	16.51	29.23	PASS
2	142	5710	1.12	13.34	4.77	0.29	18.40	29.23	PASS

NOTE:
1. Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 30-(6.77-6) = 29.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

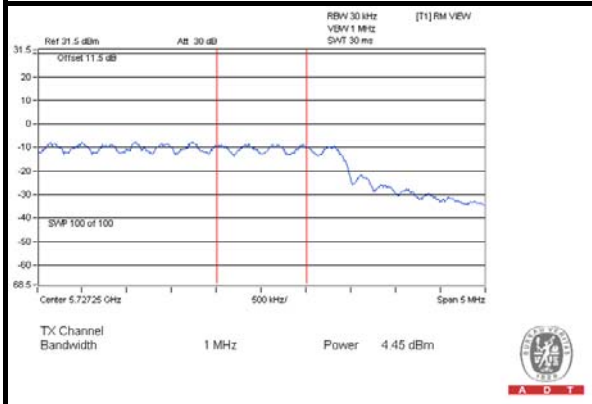
TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	138	5690	-4.72	7.50	4.77	0.55	12.82	29.23	PASS
1	138	5690	-3.84	8.38	4.77	0.55	13.70	29.23	PASS
2	138	5690	-3.78	8.44	4.77	0.55	13.76	29.23	PASS

NOTE:

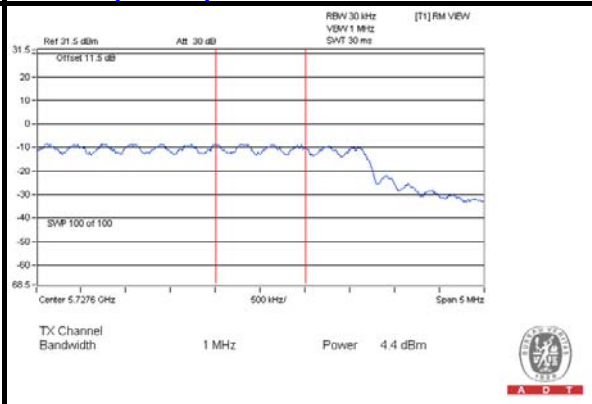
1. Directional gain = 2dBi + 10log(3) = 6.77dBi > 6dBi, so the power density limit shall be reduced to 30-(6.77-6) = 29.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

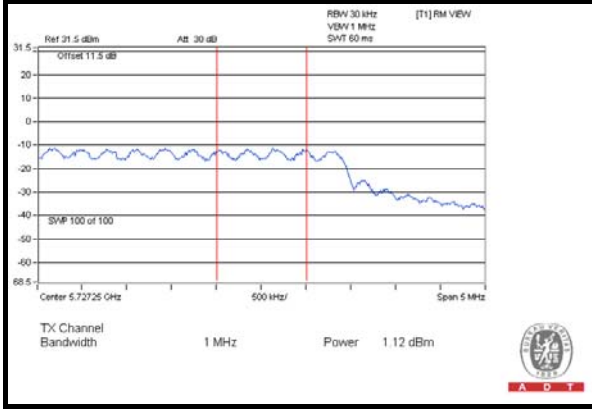
802.11a



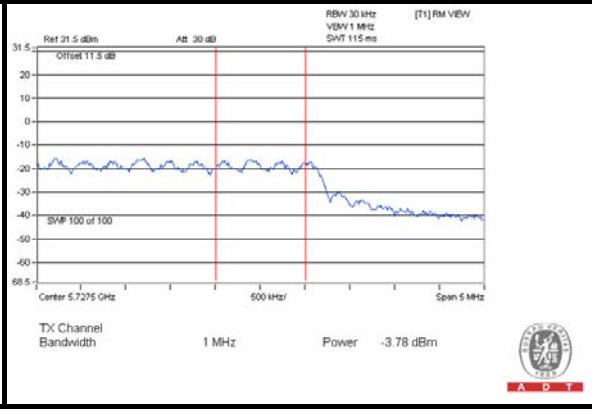
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE E

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-0.28	11.94	4.77	0.14	16.85	24.23	PASS
1	144	5720	-0.90	11.32	4.77	0.14	16.23	24.23	PASS
2	144	5720	0.21	12.43	4.77	0.14	17.34	24.23	PASS

NOTE:
1. Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 30-(11.77-6) = 24.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-0.58	11.64	4.77	0.14	16.55	24.23	PASS
1	144	5720	-1.73	10.49	4.77	0.14	15.40	24.23	PASS
2	144	5720	-0.30	11.92	4.77	0.14	16.83	24.23	PASS

NOTE:
1. Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 30-(11.77-6) = 24.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	142	5710	-1.06	11.16	4.77	0.31	16.24	24.23	PASS
1	142	5710	-1.37	10.85	4.77	0.31	15.93	24.23	PASS
2	142	5710	-0.30	11.92	4.77	0.31	17.00	24.23	PASS

NOTE:
1. Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 30-(11.77-6) = 24.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

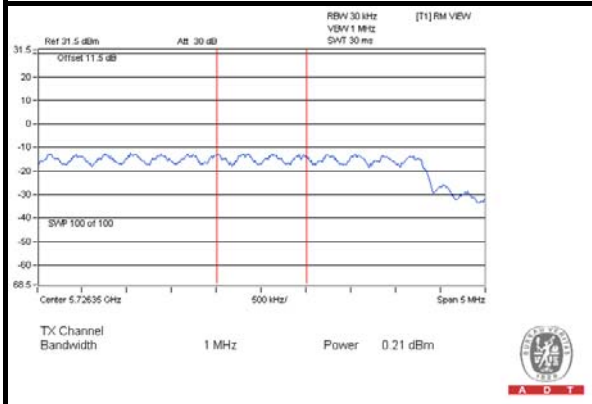
TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	138	5690	-6.30	5.92	4.77	0.54	11.23	24.23	PASS
1	138	5690	-6.80	5.42	4.77	0.54	10.73	24.23	PASS
2	138	5690	-5.78	6.44	4.77	0.54	11.75	24.23	PASS

NOTE:

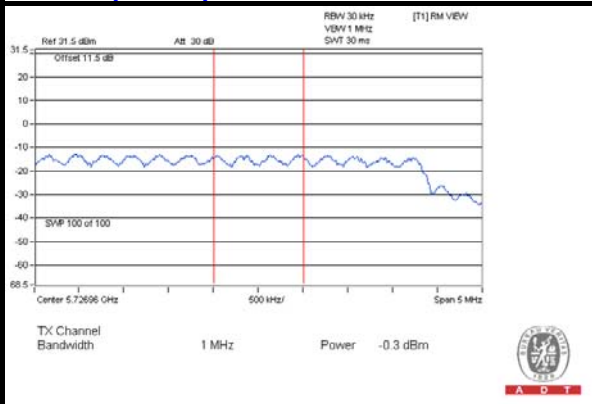
1. Directional gain = 7dBi + 10log(3) = 11.77dBi > 6dBi, so the power density limit shall be reduced to 17-(11.77-6) = 11.23dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

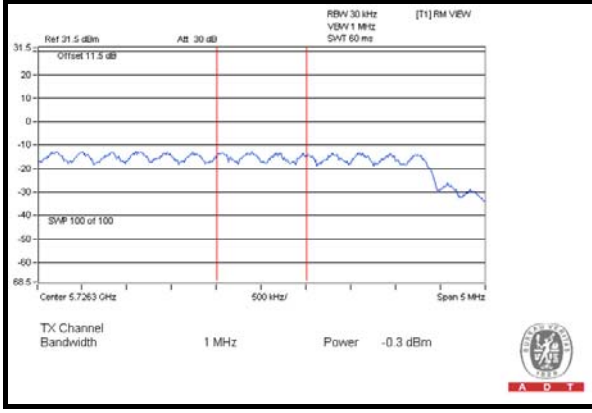
802.11a



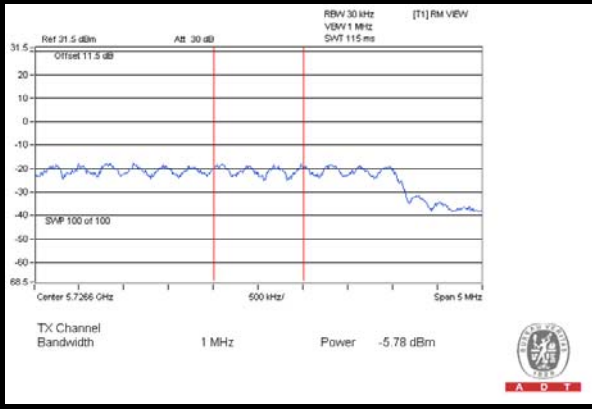
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



TEST MODE F

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-0.28	11.94	4.77	0.14	16.85	24.03	PASS
1	144	5720	-0.90	11.32	4.77	0.14	16.23	24.03	PASS
2	144	5720	0.21	12.43	4.77	0.14	17.34	24.03	PASS

NOTE:
1. Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 30-(11.97-6) = 24.03dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	144	5720	-0.58	11.64	4.77	0.14	16.55	24.03	PASS
1	144	5720	-1.73	10.49	4.77	0.14	15.40	24.03	PASS
2	144	5720	-0.30	11.92	4.77	0.14	16.83	24.03	PASS

NOTE:
1. Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 30-(11.97-6) = 24.03dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	142	5710	-1.16	11.06	4.77	0.27	16.10	24.03	PASS
1	142	5710	-1.67	10.55	4.77	0.27	15.59	24.03	PASS
2	142	5710	-0.40	11.82	4.77	0.27	16.86	24.03	PASS

NOTE:
1. Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 30-(11.97-6) = 24.03dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (80MHz)

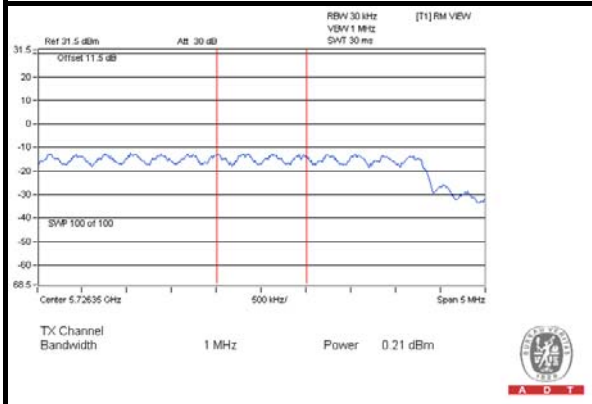
TX chain	Channel	Freq. (MHz)	PSD (dBm/ 30kHz)	PSD (dBm/500 kHz)	10 log (N=3) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	138	5690	-6.30	5.92	4.77	0.54	11.23	24.03	PASS
1	138	5690	-6.80	5.42	4.77	0.54	10.73	24.03	PASS
2	138	5690	-5.78	6.44	4.77	0.54	11.75	24.03	PASS

NOTE:

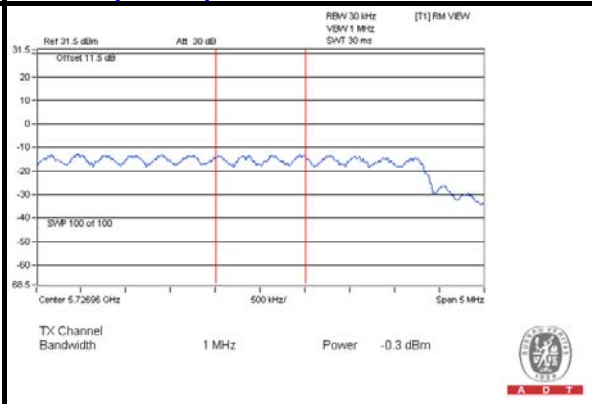
1. Directional gain = 7.2dBi + 10log(3) = 11.97dBi > 6dBi, so the power density limit shall be reduced to 30-(11.97-6) = 24.03dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

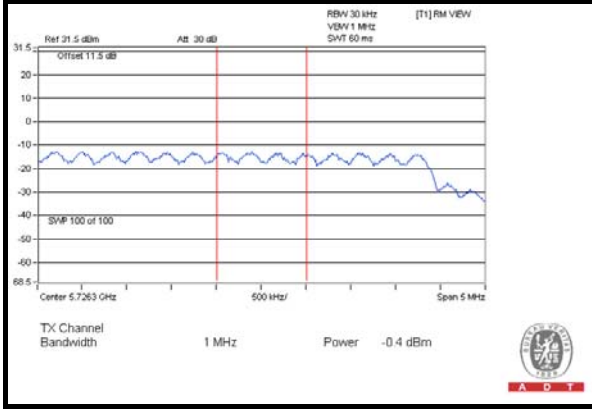
802.11a



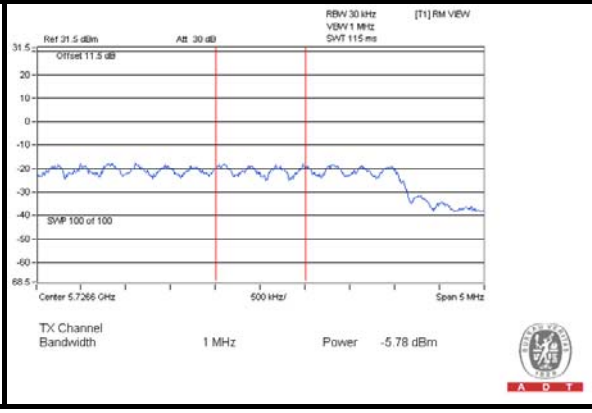
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

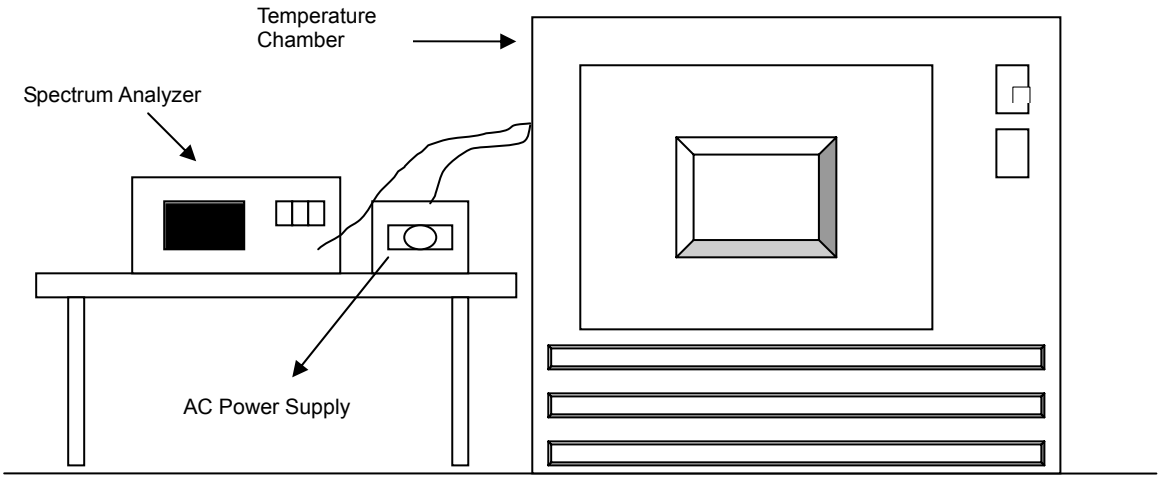


4.5 FREQUENCY STABILITY

4.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

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

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

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.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

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

4.5.7 TEST RESULTS

TEST MODE A

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120.0	5319.9943	-0.00011	5319.9930	-0.00013	5319.9931	-0.00013	5319.9974	-0.00005
40	120.0	5320.0260	0.00049	5320.0213	0.00040	5320.0246	0.00046	5320.0254	0.00048
30	120.0	5319.9980	-0.00004	5319.9999	0.00000	5320.0006	0.00001	5320.0015	0.00003
20	120.0	5319.9771	-0.00043	5319.9784	-0.00041	5319.9779	-0.00042	5319.9770	-0.00043
10	120.0	5319.9803	-0.00037	5319.9840	-0.00030	5319.9826	-0.00033	5319.9826	-0.00033
0	120.0	5320.0180	0.00034	5320.0168	0.00032	5320.0170	0.00032	5320.0153	0.00029
-10	120.0	5320.0252	0.00047	5320.0244	0.00046	5320.0250	0.00047	5320.0248	0.00047
-20	120.0	5319.9919	-0.00015	5319.9904	-0.00018	5319.9913	-0.00016	5319.9915	-0.00016
-30	120.0	5320.0017	0.00003	5320.0025	0.00005	5320.0043	0.00008	5320.0056	0.00011

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5319.9764	-0.00044	5319.9778	-0.00042	5319.9787	-0.00040	5319.9780	-0.00041
	120	5319.9771	-0.00043	5319.9784	-0.00041	5319.9779	-0.00042	5319.9770	-0.00043
	102	5319.9776	-0.00042	5319.9795	-0.00039	5319.9789	-0.00040	5319.9777	-0.00042

TEST MODE B

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120.0	5320.0154	0.00029	5320.0112	0.00021	5320.0115	0.00022	5320.0144	0.00027
40	120.0	5320.0167	0.00031	5320.0201	0.00038	5320.0197	0.00037	5320.0177	0.00033
30	120.0	5319.9951	-0.00009	5319.9969	-0.00006	5320.0000	0.00000	5319.9982	-0.00003
20	120.0	5320.0157	0.00030	5320.0153	0.00029	5320.0140	0.00026	5320.0172	0.00032
10	120.0	5319.9752	-0.00047	5319.9741	-0.00049	5319.9732	-0.00050	5319.9762	-0.00045
0	120.0	5320.0126	0.00024	5320.0137	0.00026	5320.0117	0.00022	5320.0133	0.00025
-10	120.0	5319.9835	-0.00031	5319.9839	-0.00030	5319.9828	-0.00032	5319.9869	-0.00025
-20	120.0	5320.0019	0.00004	5320.0030	0.00006	5320.0006	0.00001	5320.0018	0.00003
-30	120.0	5319.9754	-0.00046	5319.9779	-0.00042	5319.9765	-0.00044	5319.9762	-0.00045

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5320.0165	0.00031	5320.0144	0.00027	5320.0143	0.00027	5320.0175	0.00033
	120	5320.0157	0.00030	5320.0153	0.00029	5320.0140	0.00026	5320.0172	0.00032
	102	5320.0158	0.00030	5320.0155	0.00029	5320.0150	0.00028	5320.0169	0.00032

TEST MODE C

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120.0	5320.0119	0.00022	5320.0143	0.00027	5320.0115	0.00022	5320.0154	0.00029
40	120.0	5319.9787	-0.00040	5319.9781	-0.00041	5319.9761	-0.00045	5319.9772	-0.00043
30	120.0	5319.9737	-0.00049	5319.9741	-0.00049	5319.9742	-0.00048	5319.9761	-0.00045
20	120.0	5320.0232	0.00044	5320.0194	0.00036	5320.0227	0.00043	5320.0239	0.00045
10	120.0	5320.0051	0.00010	5320.0063	0.00012	5320.0049	0.00009	5320.0063	0.00012
0	120.0	5319.9827	-0.00033	5319.9820	-0.00034	5319.9824	-0.00033	5319.9805	-0.00037
-10	120.0	5319.9795	-0.00039	5319.9771	-0.00043	5319.9773	-0.00043	5319.9772	-0.00043
-20	120.0	5320.0035	0.00007	5320.0046	0.00009	5320.0019	0.00004	5320.0049	0.00009
-30	120.0	5319.9980	-0.00004	5319.9947	-0.00010	5319.9960	-0.00008	5319.9951	-0.00009

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5320.0241	0.00045	5320.0201	0.00038	5320.0235	0.00044	5320.0240	0.00045
	120	5320.0232	0.00044	5320.0194	0.00036	5320.0227	0.00043	5320.0239	0.00045
	102	5320.0229	0.00043	5320.0203	0.00038	5320.0227	0.00043	5320.0242	0.00045

TEST MODE D

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120.0	5320.0072	0.00014	5320.0088	0.00017	5320.0084	0.00016	5320.0059	0.00011
40	120.0	5320.0142	0.00027	5320.0130	0.00024	5320.0137	0.00026	5320.0143	0.00027
30	120.0	5319.9914	-0.00016	5319.9931	-0.00013	5319.9917	-0.00016	5319.9909	-0.00017
20	120.0	5319.9822	-0.00033	5319.9803	-0.00037	5319.9814	-0.00035	5319.9837	-0.00031
10	120.0	5319.9902	-0.00018	5319.9916	-0.00016	5319.9892	-0.00020	5319.9895	-0.00020
0	120.0	5319.9755	-0.00046	5319.9752	-0.00047	5319.9754	-0.00046	5319.9764	-0.00044
-10	120.0	5319.9882	-0.00022	5319.9850	-0.00028	5319.9846	-0.00029	5319.9849	-0.00028
-20	120.0	5320.0236	0.00044	5320.0286	0.00054	5320.0286	0.00054	5320.0286	0.00054
-30	120.0	5320.0074	0.00014	5320.0041	0.00008	5320.0050	0.00009	5320.0065	0.00012

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5319.9821	-0.00034	5319.9804	-0.00037	5319.9814	-0.00035	5319.9834	-0.00031
	120	5319.9822	-0.00033	5319.9803	-0.00037	5319.9814	-0.00035	5319.9837	-0.00031
	102	5319.9817	-0.00034	5319.9801	-0.00037	5319.9813	-0.00035	5319.9827	-0.00033

TEST MODE E

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120.0	5320.0182	0.00034	5320.0175	0.00033	5320.0161	0.00030	5320.0185	0.00035
40	120.0	5320.0042	0.00008	5320.0049	0.00009	5320.0017	0.00003	5320.0036	0.00007
30	120.0	5319.9833	-0.00031	5319.9810	-0.00036	5319.9813	-0.00035	5319.9849	-0.00028
20	120.0	5320.0159	0.00030	5320.0179	0.00034	5320.0169	0.00032	5320.0177	0.00033
10	120.0	5319.9862	-0.00026	5319.9858	-0.00027	5319.9865	-0.00025	5319.9895	-0.00020
0	120.0	5319.9751	-0.00047	5319.9744	-0.00048	5319.9721	-0.00052	5319.9754	-0.00046
-10	120.0	5320.0188	0.00035	5320.0181	0.00034	5320.0211	0.00040	5320.0208	0.00039
-20	120.0	5319.9964	-0.00007	5319.9984	-0.00003	5320.0010	0.00002	5319.9962	-0.00007
-30	120.0	5320.0111	0.00021	5320.0110	0.00021	5320.0105	0.00020	5320.0072	0.00014

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5320.0166	0.00031	5320.0178	0.00033	5320.0165	0.00031	5320.0186	0.00035
	120	5320.0159	0.00030	5320.0179	0.00034	5320.0169	0.00032	5320.0177	0.00033
	102	5320.0150	0.00028	5320.0177	0.00033	5320.0172	0.00032	5320.0184	0.00035

TEST MODE F

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120.0	5319.9777	-0.00042	5319.9788	-0.00040	5319.9778	-0.00042	5319.9777	-0.00042
40	120.0	5320.0156	0.00029	5320.0156	0.00029	5320.0150	0.00028	5320.0182	0.00034
30	120.0	5319.9928	-0.00014	5319.9941	-0.00011	5319.9917	-0.00016	5319.9894	-0.00020
20	120.0	5319.9859	-0.00027	5319.9851	-0.00028	5319.9845	-0.00029	5319.9870	-0.00024
10	120.0	5320.0262	0.00049	5320.0235	0.00044	5320.0244	0.00046	5320.0258	0.00048
0	120.0	5319.9999	0.00000	5320.0003	0.00001	5319.9993	-0.00001	5320.0015	0.00003
-10	120.0	5319.9861	-0.00026	5319.9834	-0.00031	5319.9876	-0.00023	5319.9871	-0.00024
-20	120.0	5320.0098	0.00018	5320.0083	0.00016	5320.0087	0.00016	5320.0113	0.00021
-30	120.0	5320.0050	0.00009	5320.0045	0.00008	5320.0064	0.00012	5320.0039	0.00007

FREQUEMCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5320MHz									
TEMP. (℃)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5319.9863	-0.00026	5319.9850	-0.00028	5319.9855	-0.00027	5319.9868	-0.00025
	120	5319.9859	-0.00027	5319.9851	-0.00028	5319.9845	-0.00029	5319.9870	-0.00024
	102	5319.9866	-0.00025	5319.9841	-0.00030	5319.9837	-0.00031	5319.9862	-0.00026

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6. INFORMATION ON THE TESTING LABORATORIES

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

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

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

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

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

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