



FCC TEST REPORT (15.247)

REPORT NO.: RF110322C09

MODEL NO.: AU-E-SA-5X-1S-M7000
(refer to item 3.1 for more detail)

FCC ID: LKT-BULTRA-5

RECEIVED: Mar. 22, 2011

TESTED: Nov. 07 ~ Dec. 20, 2011

ISSUED: Dec. 22, 2011

APPLICANT: Alvarion Ltd.

ADDRESS: 21a HaBarzel St. Tel Aviv 69710, Israel

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

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New
Taipei City, Taiwan (R.O.C)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This test report consists of 63 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product, certification, approval or endorsement by TAF or any government agency. The test results in the report only apply to the tested sample.





TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1. CERTIFICATION	5
2. SUMMARY OF TEST RESULTS	6
2.1 MEASUREMENT UNCERTAINTY	6
3. GENERAL INFORMATION	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES	8
3.2.1 CONFIGURATION OF SYSTEM UNDER TEST	9
3.2.2 DESCRIPTION OF SUPPORT UNITS	9
3.2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	10
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS	12
4. TEST TYPES AND RESULTS	13
5. TEST TYPES AND RESULTS	13
5.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT	13
5.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	13
5.1.2 TEST INSTRUMENTS	14
5.1.3 TEST PROCEDURES	15
5.1.4 DEVIATION FROM TEST STANDARD	15
5.1.5 TEST SETUP	16
5.1.6 EUT OPERATING CONDITIONS	16
5.1.7 TEST RESULTS	17
5.2 CONDUCTED EMISSION MEASUREMENT	37
5.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	37
5.2.2 TEST INSTRUMENTS	37
5.2.3 TEST PROCEDURES	38
5.2.4 DEVIATION FROM TEST STANDARD	38
5.2.5 TEST SETUP	39
5.2.6 EUT OPERATING CONDITIONS	39
5.2.7 TEST RESULTS	40
5.3 6dB BANDWIDTH MEASUREMENT	44
5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT	44
5.3.2 TEST SETUP	44
5.3.3 TEST INSTRUMENTS	44
5.3.4 TEST PROCEDURE	44
5.3.5 DEVIATION FROM TEST STANDARD	44
5.3.6 EUT OPERATING CONDITIONS	44
5.3.7 TEST RESULTS	45
5.4 CONDUCTED OUTPUT POWER	47
5.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT	47
5.4.2 TEST SETUP	47
5.4.3 INSTRUMENTS	47
5.4.4 TEST PROCEDURES	47
5.4.5 DEVIATION FROM TEST STANDARD	47
5.4.6 EUT OPERATING CONDITIONS	47
5.4.7 TEST RESULTS	48
5.5 POWER SPECTRAL DENSITY MEASUREMENT	50
5.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	50
5.5.2 TEST SETUP	50



A D T

5.5.3	TEST INSTRUMENTS.....	50
5.5.4	TEST PROCEDURE.....	50
5.5.5	DEVIATION FROM TEST STANDARD.....	50
5.5.6	EUT OPERATING CONDITION.....	50
5.5.7	TEST RESULTS	51
5.6	CONDUCTED EMISSION MEASUREMENT	53
5.6.1	LIMITS OF BAND EDGES MEASUREMENT.....	53
5.6.2	TEST SETUP.....	53
5.6.3	TEST INSTRUMENTS.....	53
5.6.4	TEST PROCEDURE.....	53
5.6.5	DEVIATION FROM TEST STANDARD.....	54
5.6.6	EUT OPERATING CONDITION.....	54
5.6.7	TEST RESULTS	54
6.	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	61
7.	INFORMATION ON THE TESTING LABORATORIES	62
8.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	63



A D T

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Dec. 22, 2011



1. CERTIFICATION

PRODUCT: BreezeULTRA

MODEL: AU-E-SA-5X-1S-M7000 (refer to item 3.1 for more detail)

BRAND: Alvarion

APPLICANT: Alvarion Ltd.

TESTED: Nov. 07 ~ Dec. 20, 2011

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**

ANSI C63.4-2003

ANSI C63.10-2009

The above equipment (Model: AU-E-SA-5X-1S-M7000) 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 : Andrea Hsia , DATE: Dec. 22, 2011
Andrea Hsia / Specialist

APPROVED BY : Gary Chang , DATE: Dec. 22, 2011
Gary Chang / Technical Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -17.12dB at 0.158MHz.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.1dB at 98.89, 130.30 & 5460.00MHz.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is MMCX.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	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	BreezeULTRA
MODEL NO.	AU-E-SA-5X-1S-M7000 (refer to note as below)
FCC ID	LKT-BULTRA-5
POWER SUPPLY	5Vdc (host equipment)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps
OPERATING FREQUENCY	5740 ~ 5835MHz
NUMBER OF CHANNEL	3 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz)
OUTPUT POWER	986.1mW
ANTENNA TYPE	Antenna 1: Matrix antenna with 23dBi gain Antenna 2: Matrix antenna with 28dBi gain
ANTENNA CONNECTOR	MMCX
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	NA

NOTE:

1. The models as below are identical to each other except for their model designation and brand name due to marketing purpose.

MODEL
BU/RB-B350-5X-P6000
BU/RB-B600-5X-P6000
BU/RB-B350D-5X-P6000
BU/RB-B350D-5X-LX-P6000
BU/RB-B600D-5X-P6000
AU-E-SA-5X-1S-M7000
AU-E-SA-5X-2S-M7000
AU-E-SA-5X-3S-M7000
BU/RB-B600 AU-E-5X-1S
BU/RB-B350 AU-E-5X-2S

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

Frequency Band (MHz)	5180~5240	5740~5835
802.11a	√	√
802.11n (20MHz)	√	√
802.11n (40MHz)	√	√

3. The EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION
802.11a	2TX
802.11n (20MHz)	2TX
802.11n (40MHz)	2TX

4. 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 5740 ~ 5835MHz:

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

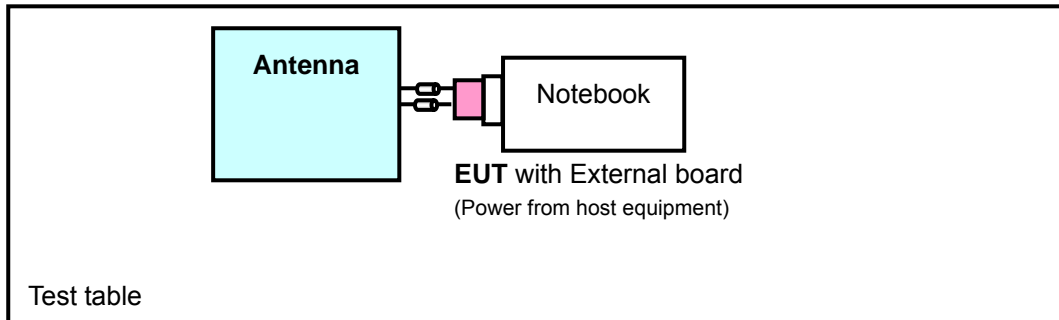
FREQUENCY
5740MHz
5785MHz
5835MHz

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

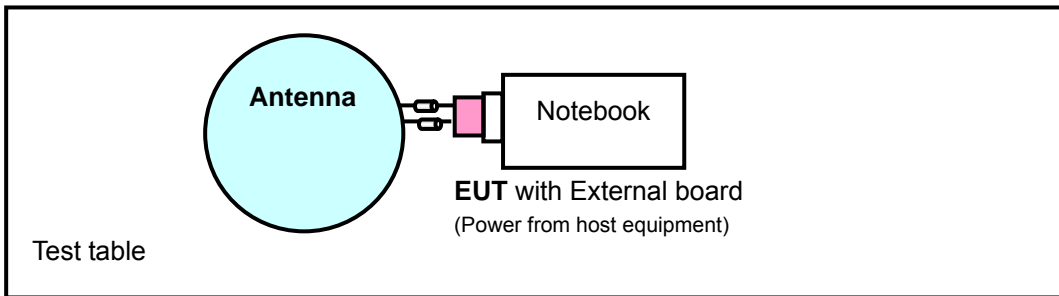
FREQUENCY
5745MHz
5785MHz
5830MHz

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

TEST MODE A



TEST MODE B



3.2.2 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-2973	QDS-BRCM1020

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

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

3.2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE \geq 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with antenna 1
B	√	√	√	√	EUT with antenna 2

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

RADIATED EMISSION TEST (ABOVE 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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	TESTED FREQUENCY (MHz)	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A & B	802.11a	5740, 5785, 5835	OFDM	BPSK	6.0
A & B	802.11n (20MHz)	5740, 5785, 5835	OFDM	BPSK	7.2
A & B	802.11n (40MHz)	5745, 5785, 5830	OFDM	BPSK	15.0

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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	TESTED FREQUENCY (MHz)	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5740	OFDM	BPSK	6.0
B	802.11n (40MHz)	5785	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	TESTED FREQUENCY (MHz)	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5740	OFDM	BPSK	6.0
B	802.11n (40MHz)	5785	OFDM	BPSK	15.0

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	TESTED FREQUENCY (MHz)	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A & B	802.11a	5740, 5835	OFDM	BPSK	6.0
A & B	802.11n (20MHz)	5740, 5835	OFDM	BPSK	7.2
A & B	802.11n (40MHz)	5745, 5830	OFDM	BPSK	15.0

ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	TESTED FREQUENCY (MHz)	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A & B	802.11a	5740, 5785, 5835	OFDM	BPSK	6.0
A & B	802.11n (20MHz)	5740, 5785, 5835	OFDM	BPSK	7.2
A & B	802.11n (40MHz)	5745, 5785, 5830	OFDM	BPSK	15.0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	25deg. C, 65%RH	5Vdc	Kay Wu
RE<1G	25deg. C, 68%RH	5Vdc	David Huang
PLC	25deg. C, 65%RH	5Vdc	Match Tsui
APCM	25deg. C, 70%RH	5Vdc	Match Tsui



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C (15.247)

ANSI C63.4-2003

ANSI C63.10-2009

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

4. TEST TYPES AND RESULTS

5. TEST TYPES AND RESULTS

5.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

5.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

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

NOTE:

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



5.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100212	Aug. 02, 2011	Aug. 01, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Jul. 21, 2011	Jul. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 13, 2011	Apr. 12, 2012
HORN Antenna SCHWARZBECK	9120D	209	Aug. 25, 2011	Aug. 24, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 20, 2011	Jul. 19, 2012
Preamplifier Agilent	8447D	2944A10633	Oct. 29, 2011	Oct. 28, 2012
Preamplifier Agilent	8449B	3008A01964	Oct. 29, 2011	Oct. 28, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250723/4	Aug. 30, 2011	Aug. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	12738/6+309224/4	Aug. 30, 2011	Aug. 29, 2012
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 29, 2011	Oct. 28, 2012
High Speed Peak Power Meter	ML2495A	0824011	Aug. 04, 2011	Aug. 03, 2012
Power Sensor	MA2411B	0738171	Aug. 04, 2011	Aug. 03, 2012

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

5.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

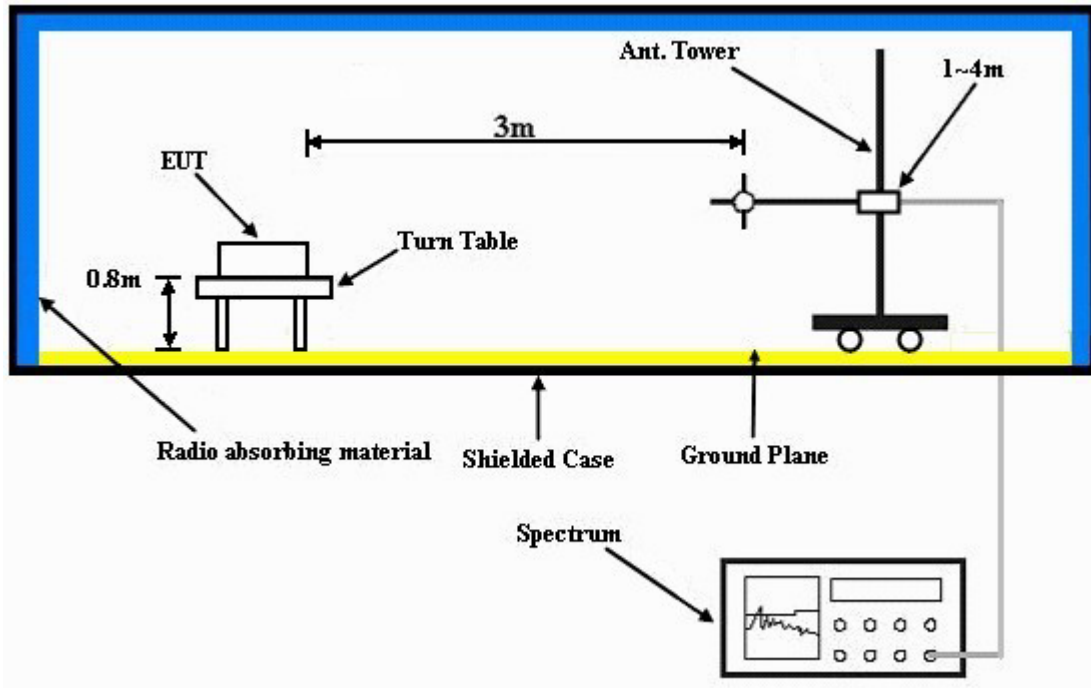
NOTE:

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 100kHz and video bandwidth is 300kHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

5.1.4 DEVIATION FROM TEST STANDARD

No deviation.

5.1.5 TEST SETUP



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

5.1.6 EUT OPERATING CONDITIONS

- a. Plugged the EUT to notebook via external board and placed on a testing table.
- b. The notebook ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.



5.1.7 TEST RESULTS

ABOVE 1GHz DATA : 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5740MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5724.50	98.2 PK	105.0	-6.8	1.04 H	352	59.80	38.40
2	#5724.50	79.9 AV	93.5	-13.6	1.04 H	352	41.50	38.40
3	*5740.00	125.0 PK			1.04 H	352	86.60	38.40
4	*5740.00	113.5 AV			1.04 H	352	75.10	38.40
5	11480.00	57.5 PK	74.0	-16.5	1.00 H	325	8.50	49.00
6	11480.00	44.8 AV	54.0	-9.2	1.00 H	325	-4.20	49.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5724.50	100.7 PK	107.3	-6.6	1.00 V	353	62.30	38.40
2	#5724.50	82.2 AV	95.6	-13.4	1.00 V	353	43.80	38.40
3	*5740.00	127.3 PK			1.00 V	353	88.90	38.40
4	*5740.00	115.6 AV			1.00 V	353	77.20	38.40
5	11480.00	57.6 PK	74.0	-16.4	1.00 V	333	8.60	49.00
6	11480.00	45.1 AV	54.0	-8.9	1.00 V	333	-3.90	49.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	125.3 PK			1.05 H	351	86.80	38.50
2	*5785.00	113.1 AV			1.05 H	351	74.60	38.50
3	11570.00	56.1 PK	74.0	-17.9	1.00 H	121	7.30	48.80
4	11570.00	44.5 AV	54.0	-9.5	1.00 H	121	-4.30	48.80
5	#17355.00	60.3 PK	105.3	-45.0	1.00 H	345	7.70	52.60
6	#17355.00	46.4 AV	93.1	-46.7	1.00 H	345	-6.20	52.60
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	*5785.00	126.8 PK			1.00 V	354	88.30	38.50
2	*5785.00	115.5 AV			1.00 V	354	77.00	38.50
3	11570.00	58.4 PK	74.0	-15.6	1.10 V	217	9.60	48.80
4	11570.00	45.5 AV	54.0	-8.5	1.10 V	217	-3.30	48.80
5	#17355.00	61.9 PK	106.8	-44.9	1.11 V	124	9.30	52.60
6	#17355.00	48.0 AV	95.5	-47.5	1.11 V	124	-4.60	52.60

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5835MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5835.00	124.1 PK			1.03 H	353	85.50	38.60
2	*5835.00	112.7 AV			1.03 H	353	74.10	38.60
3	#5850.50	94.4 PK	104.1	-9.7	1.03 H	353	55.80	38.60
4	#5850.50	78.3 AV	92.7	-14.4	1.03 H	353	39.70	38.60
5	11670.00	57.1 PK	74.0	-16.9	1.00 H	312	8.40	48.70
6	11670.00	45.0 AV	54.0	-9.0	1.00 H	312	-3.70	48.70
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	*5835.00	127.1 PK			1.00 V	353	88.50	38.60
2	*5835.00	114.3 AV			1.00 V	353	75.70	38.60
3	#5850.50	95.6 PK	107.1	-11.5	1.00 V	354	57.00	38.60
4	#5850.50	78.2 AV	94.3	-16.1	1.00 V	354	39.60	38.60
5	11670.00	57.6 PK	74.0	-16.4	1.00 V	352	8.90	48.70
6	11670.00	44.6 AV	54.0	-9.4	1.00 V	352	-4.10	48.70

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5740MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.0	65.0 PK	74.0	-9.0	1.38 H	351	27.10	37.90
2	5460.0	52.4 AV	54.0	-1.6	1.38 H	351	14.50	37.90
3	#5724.50	99.0 PK	106.2	-7.2	1.38 H	351	60.60	38.40
4	#5724.50	81.2 AV	95.0	-13.8	1.38 H	351	42.80	38.40
5	*5740.00	126.2 PK			1.38 H	351	87.80	38.40
6	*5740.00	115.0 AV			1.38 H	351	76.60	38.40
7	11480.00	57.7 PK	74.00	-16.3	1.00 H	332	8.70	49.00
8	11480.00	44.1 AV	54.00	-9.9	1.00 H	332	-4.90	49.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.2 PK	74.0	-10.8	1.35 V	349	25.30	37.90
2	5460.00	50.0 AV	54.0	-4.0	1.35 V	349	12.10	37.90
3	#5724.50	95.4 PK	106.1	-10.7	1.35 V	349	57.00	38.40
4	#5724.50	79.8 AV	94.7	-14.9	1.35 V	349	41.40	38.40
5	*5740.00	126.1 PK			1.35 V	349	87.70	38.40
6	*5740.00	114.7 AV			1.35 V	349	76.30	38.40
7	11480.00	57.7 PK	74.0	-16.3	1.00 V	358	8.70	49.00
8	11480.00	44.8 AV	54.0	-9.2	1.00 V	358	-4.20	49.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. “#“:The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.3 PK	74.0	-8.7	1.36 H	348	27.40	37.90
2	5460.00	52.2 AV	54.0	-1.8	1.36 H	348	14.30	37.90
3	*5785.00	126.4 PK			1.36 H	348	87.90	38.50
4	*5785.00	115.1 AV			1.36 H	348	76.60	38.50
5	11570.00	57.4 PK	74.0	-16.6	1.00 H	197	8.60	48.80
6	11570.00	46.7 AV	54.0	-7.3	1.00 H	197	-2.10	48.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.8 PK	74.0	-10.2	1.35 V	350	25.90	37.90
2	5460.00	50.2 AV	54.0	-3.8	1.35 V	350	12.30	37.90
3	*5785.00	126.3 PK			1.35 V	350	87.80	38.50
4	*5785.00	115.0 AV			1.35 V	350	76.50	38.50
5	11570.00	58.4 PK	74.0	-15.6	1.00 V	258	9.60	48.80
6	11570.00	45.7 AV	54.0	-8.3	1.00 V	258	-3.10	48.80

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.



EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5835MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.5 PK	74.0	-8.5	1.35 H	349	27.60	37.90
2	5460.00	52.9 AV	54.0	-1.1	1.35 H	349	15.00	37.90
3	*5835.00	123.1 PK			1.35 H	349	84.50	38.60
4	*5835.00	112.1 AV			1.35 H	349	73.50	38.60
5	#5850.50	92.6 PK	103.1	-10.5	1.35 H	349	54.00	38.60
6	#5850.50	74.7 AV	92.1	-17.4	1.35 H	349	36.10	38.60
7	11670.00	57.3 PK	74.0	-16.7	1.00 H	321	8.60	48.70
8	11670.00	44.6 AV	54.0	-9.4	1.00 H	321	-4.10	48.70
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	63.4 PK	74.0	-10.6	1.39 V	351	25.50	37.90
2	5460.00	50.4 AV	54.0	-3.6	1.39 V	351	12.50	37.90
3	*5835.00	126.0 PK			1.39 V	351	87.40	38.60
4	*5835.00	113.6 AV			1.39 V	351	75.00	38.60
5	#5850.50	94.4 PK	106.0	-11.6	1.39 V	351	55.80	38.60
6	#5850.50	77.1 AV	93.6	-16.5	1.39 V	351	38.50	38.60
7	11670.00	57.3 PK	74.0	-16.7	1.00 V	332	8.60	48.70
8	11670.00	45.0 AV	54.0	-9.0	1.00 V	332	-3.70	48.70

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.

802.11n (20MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5740MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5724.50	98.8 PK	105.4	-8.6	1.04 H	352	60.40	38.40
2	#5724.50	81.0 AV	93.4	-12.4	1.04 H	352	42.60	38.40
3	*5740.00	125.4 PK			1.04 H	352	87.00	38.40
4	*5740.00	113.4 AV			1.04 H	352	75.00	38.40
5	11480.00	58.0 PK	74.0	-16.0	1.00 H	333	9.00	49.00
6	11480.00	45.1 AV	54.0	-8.9	1.00 H	333	-3.90	49.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5724.50	99.8 PK	106.8	-7.0	1.00 V	352	61.40	38.40
2	#5724.50	82.6 AV	95.2	-12.6	1.00 V	352	44.20	38.40
3	*5740.00	126.8 PK			1.00 V	352	88.40	38.40
4	*5740.00	115.2 AV			1.00 V	352	76.80	38.40
5	11480.00	57.7 PK	74.0	-16.3	1.00 V	325	8.70	49.00
6	11480.00	45.4 AV	54.0	-8.6	1.00 V	325	-3.60	49.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	125.0 PK			1.05 H	355	86.50	38.50
2	*5785.00	113.0 AV			1.05 H	355	74.50	38.50
3	11570.00	58.6 PK	74.0	-15.4	1.00 H	211	9.80	48.80
4	11570.00	46.2 AV	54.0	-7.8	1.00 H	211	-2.60	48.80
5	#17355.00	61.1 PK	105.0	-43.9	1.00 H	345	8.50	52.60
6	#17355.00	45.2 AV	93.0	-47.8	1.00 H	345	-7.40	52.60
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	*5785.00	126.5 PK			1.00 V	354	88.00	38.50
2	*5785.00	114.9 AV			1.00 V	354	76.40	38.50
3	11570.00	57.0 PK	74.0	-17.0	1.00 V	254	8.20	48.80
4	11570.00	45.1 AV	54.0	-8.9	1.00 V	254	-3.70	48.80
5	#17355.00	60.2 PK	106.5	-46.3	1.00 V	340	7.60	52.60
6	#17355.00	44.1 AV	94.9	-50.8	1.00 V	340	-8.50	52.60

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#": The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5835MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5835.00	123.6 PK			1.03 H	353	85.00	38.60
2	*5835.00	112.3 AV			1.03 H	353	73.70	38.60
3	#5850.50	95.6 PK	103.6	-8.0	1.00 H	353	57.00	38.60
4	#5850.50	78.6 AV	92.3	-13.7	1.00 H	353	40.00	38.60
5	11670.00	57.6 PK	74.0	-16.4	1.00 H	325	8.90	48.70
6	11670.00	44.7 AV	54.0	-9.3	1.00 H	325	-4.00	48.70
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	*5835.00	125.6 PK			1.00 V	353	87.00	38.60
2	*5835.00	113.9 AV			1.00 V	353	75.30	38.60
3	#5850.50	97.1 PK	105.6	-8.5	1.00 V	353	58.50	38.60
4	#5850.50	79.8 AV	93.9	-14.1	1.00 V	353	41.20	38.60
5	11670.00	57.3 PK	74.0	-16.7	1.00 V	323	8.60	48.70
6	11670.00	44.6 AV	54.0	-9.4	1.00 V	323	-4.10	48.70

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5740MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.4 PK	74.0	-8.6	1.38 H	351	27.50	37.90
2	5460.00	52.6 AV	54.0	-1.4	1.38 H	351	14.70	37.90
3	#5724.50	97.7 PK	106.5	-8.8	1.38 H	351	59.30	38.40
4	#5724.50	81.1 AV	94.8	-13.7	1.38 H	351	42.70	38.40
5	*5740.00	126.5 PK			1.38 H	351	88.10	38.40
6	*5740.00	114.8 AV			1.38 H	351	76.40	38.40
7	11480.00	57.8 PK	74.0	-16.2	1.00 H	335	8.80	49.00
8	11480.00	45.7 AV	54.0	-8.3	1.00 H	335	-3.30	49.00

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.5 PK	74.0	-10.5	1.35 V	349	25.60	37.90
2	5460.00	50.5 AV	54.0	-3.5	1.35 V	349	12.60	37.90
3	#5724.50	96.9 PK	106.4	-9.5	1.35 V	349	58.50	38.40
4	#5724.50	80.7 AV	94.8	-14.1	1.35 V	349	42.30	38.40
5	*5740.00	126.4 PK			1.35 V	349	88.00	38.40
6	*5740.00	114.8 AV			1.35 V	349	76.40	38.40
7	11480.00	57.8 PK	74.0	-16.2	1.00 V	352	8.80	49.00
8	11480.00	44.8 AV	54.0	-9.2	1.00 V	352	-4.20	49.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.2 PK	74.0	-8.8	1.35 H	349	27.30	37.90
2	5460.00	52.1 AV	54.0	-1.9	1.35 H	349	14.20	37.90
3	*5785.00	126.2 PK			1.36 H	349	87.70	38.50
4	*5785.00	115.0 AV			1.36 H	349	76.50	38.50
5	11570.00	57.0 PK	74.0	-17.0	1.00 H	197	8.20	48.80
6	11570.00	46.4 AV	54.0	-7.6	1.00 H	197	-2.40	48.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.2 PK	74.0	-10.8	1.37 V	346	25.30	37.90
2	5460.00	50.1 AV	54.0	-3.9	1.37 V	346	12.20	37.90
3	*5785.00	126.3 PK			1.37 V	347	87.80	38.50
4	*5785.00	114.9 AV			1.37 V	347	76.40	38.50
5	11570.00	55.6 PK	74.0	-18.4	1.05 V	211	6.80	48.80
6	11570.00	45.2 AV	54.0	-8.8	1.05 V	211	-3.60	48.80

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.



EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5835MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.4 PK	74.0	-8.6	1.35 H	349	27.50	37.90
2	5460.00	52.9 AV	54.0	-1.1	1.35 H	349	15.00	37.90
3	*5835.00	123.4 PK			1.35 H	349	84.80	38.60
4	*5835.00	112.1 AV			1.35 H	349	73.50	38.60
5	#5850.50	92.3 PK	103.4	-11.1	1.35 H	349	53.70	38.60
6	#5850.50	75.4 AV	92.1	-16.7	1.35 H	349	36.80	38.60
7	11670.00	57.3 PK	74.0	-16.7	1.00 H	322	8.60	48.70
8	11670.00	45.2 AV	54.0	-8.8	1.00 H	322	-3.50	48.70
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	63.3 PK	74.0	-10.7	1.39 V	351	25.40	37.90
2	5460.00	50.4 AV	54.0	-3.6	1.39 V	351	12.50	37.90
3	*5835.00	124.7 PK			1.39 V	351	86.10	38.60
4	*5835.00	113.5 AV			1.39 V	351	74.90	38.60
5	#5850.50	97.6 PK	104.7	-7.1	1.39 V	351	59.00	38.60
6	#5850.50	77.7 AV	93.5	-15.8	1.39 V	351	39.10	38.60
7	11670.00	57.4 PK	74.0	-16.6	1.00 V	323	8.70	48.70
8	11670.00	45.2 AV	54.0	-8.8	1.00 V	323	-3.50	48.70

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5745MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5724.50	89.9 PK	101.7	-11.8	1.00 H	353	51.50	38.40
2	#5724.50	84.4 AV	90.3	-5.9	1.00 H	353	46.00	38.40
3	*5745.00	121.7 PK			1.00 H	353	83.30	38.40
4	*5745.00	110.3 AV			1.00 H	353	71.90	38.40
5	11490.00	58.0 PK	74.0	-16.0	1.00 H	352	9.00	49.00
6	11490.00	45.4 AV	54.0	-8.6	1.00 H	352	-3.60	49.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5724.50	89.5 PK	103.9	-14.4	1.00 V	353	51.10	38.40
2	#5724.50	84.1 AV	92.0	-7.9	1.00 V	353	45.70	38.40
3	*5745.00	123.9 PK			1.00 V	353	85.50	38.40
4	*5745.00	112.0 AV			1.00 V	353	73.60	38.40
5	11490.00	58.0 PK	74.0	-16.0	1.00 V	328	9.00	49.00
6	11490.00	45.4 AV	54.0	-8.6	1.00 V	328	-3.60	49.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	121.4 PK			1.00 H	349	82.90	38.50
2	*5785.00	109.9 AV			1.00 H	349	71.40	38.50
3	11570.00	57.8 PK	74.0	-16.2	1.00 H	351	9.00	48.80
4	11570.00	45.1 AV	54.0	-8.9	1.00 H	351	-3.70	48.80
5	#17355.00	57.8 PK	101.4	-43.6	1.00 H	0	5.20	52.60
6	#17355.00	44.0 AV	89.9	-45.9	1.00 H	0	-8.60	52.60
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	*5785.00	123.6 PK			1.00 V	351	85.10	38.50
2	*5785.00	111.7 AV			1.00 V	351	73.20	38.50
3	11570.00	57.8 PK	74.0	-16.2	1.00 V	310	9.00	48.80
4	11570.00	45.1 AV	54.0	-8.9	1.00 V	310	-3.70	48.80
5	#17355.00	56.9 PK	103.6	-46.7	1.00 V	0	4.30	52.60
6	#17355.00	45.8 AV	91.7	-45.9	1.00 V	0	-6.80	52.60

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5830MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	A
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5830.00	120.5 PK			1.03 H	353	81.90	38.60
2	*5830.00	109.2 AV			1.03 H	353	70.60	38.60
3	#5850.50	87.2 PK	100.5	-13.3	1.03 H	353	48.60	38.60
4	#5850.50	81.5 AV	89.2	-7.7	1.03 H	353	42.90	38.60
5	11660.00	57.3 PK	74.0	-16.7	1.00 H	325	8.60	48.70
6	11660.00	44.7 AV	54.0	-9.3	1.00 H	325	-4.00	48.70
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	*5830.00	123.1 PK			1.00 V	353	84.50	38.60
2	*5830.00	111.2 AV			1.00 V	353	72.60	38.60
3	#5850.50	87.0 PK	103.1	-16.1	1.00 V	353	48.40	38.60
4	#5850.50	82.1 AV	91.2	-9.1	1.00 V	353	43.50	38.60
5	11660.00	57.2 PK	74.0	-16.8	1.00 V	323	8.50	48.70
6	11660.00	45.0 AV	54.0	-9.0	1.00 V	323	-3.70	48.70

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5740MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	64.3 PK	74.00	-9.7	1.35 H	351	26.40	37.90
2	5460.00	52.5 AV	54.00	-1.5	1.35 H	351	14.60	37.90
3	#5724.50	90.2 PK	103.2	-13.0	1.35 H	351	51.80	38.40
4	#5724.50	84.5 AV	91.4	-6.9	1.35 H	351	46.10	38.40
5	*5745.00	123.2 PK			1.35 H	351	84.80	38.40
6	*5745.00	111.4 AV			1.35 H	351	73.00	38.40
7	11490.00	57.7 PK	74.00	-16.3	1.00 H	329	8.70	49.00
8	11490.00	45.4 AV	54.00	-8.6	1.00 H	329	-3.60	49.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.5 PK	74.0	-10.5	1.35 V	350	25.60	37.90
2	5460.00	50.8 AV	54.0	-3.2	1.35 V	350	12.90	37.90
3	#5724.50	88.7 PK	103.9	-15.2	1.35 V	350	50.30	38.40
4	#5724.50	84.4 AV	91.5	-7.1	1.35 V	350	46.00	38.40
5	*5745.00	123.9 PK			1.35 V	350	85.50	38.40
6	*5745.00	111.5 AV			1.35 V	350	73.10	38.40
7	11490.00	58.0 PK	74.0	-16.0	1.00 V	322	9.00	49.00
8	11490.00	45.7 AV	54.0	-8.3	1.00 V	322	-3.30	49.00

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	122.9 PK			1.30 H	351	84.40	38.50
2	*5785.00	111.1 AV			1.30 H	351	72.60	38.50
3	11570.00	57.5 PK	74.0	-16.5	1.00 H	333	8.70	48.80
4	11570.00	45.1 AV	54.0	-8.9	1.00 H	333	-3.70	48.80
5	#17355.00	62.2 PK	102.9	-40.7	1.00 H	0	9.60	52.60
6	#17355.00	48.4 AV	91.1	-42.7	1.00 H	0	-4.20	52.60
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	*5785.00	123.6 PK			1.35 V	341	85.10	38.50
2	*5785.00	111.2 AV			1.35 V	341	72.70	38.50
3	11570.00	57.6 PK	74.0	-16.4	1.00 V	318	8.80	48.80
4	11570.00	45.2 AV	54.0	-8.8	1.00 V	318	-3.60	48.80
5	#17355.00	61.8 PK	103.6	-41.8	1.00 V	0	9.20	52.60
6	#17355.00	47.8 AV	91.2	-43.4	1.00 V	0	-4.80	52.60

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5835MHz	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TEST MODE	B
TESTED BY	Kay Wu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.3 PK	74.0	-8.7	1.36 H	350	27.40	37.90
2	5460.00	52.3 AV	54.0	-1.7	1.36 H	350	14.40	37.90
3	*5830.00	121.7 PK			1.36 H	350	83.10	38.60
4	*5830.00	109.9 AV			1.36 H	350	71.30	38.60
5	#5850.50	88.9 PK	101.7	-12.8	1.36 H	350	50.30	38.60
6	#5850.50	79.8 AV	89.9	-10.1	1.36 H	350	41.20	38.60
7	11660.00	57.5 PK	74.0	-16.5	1.00 H	333	8.80	48.70
8	11660.00	44.6 AV	54.0	-9.4	1.00 H	333	-4.10	48.70
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	62.0 PK	74.0	-12.0	1.35 V	350	24.10	37.90
2	5460.00	50.2 AV	54.0	-3.8	1.35 V	350	12.30	37.90
3	*5830.00	122.4 PK			1.35 V	350	83.80	38.60
4	*5830.00	109.9 AV			1.35 V	350	71.30	38.60
5	#5850.50	85.5 PK	102.4	-16.9	1.35 V	350	46.90	38.60
6	#5850.50	80.4 AV	89.9	-9.5	1.35 V	350	41.80	38.60
7	11660.00	57.3 PK	74.0	-16.7	1.00 V	352	8.60	48.70
8	11660.00	44.7 AV	54.0	-9.3	1.00 V	352	-4.00	48.70

- 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).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. The limit value is defined as per 15.247.
 7. "#":The radiated frequency is out the restricted band.



BELOW 1GHz WORST-CASE DATA : 802.11a

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5740MHz	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TEST MODE	A
TESTED BY	David Huang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	42.2 QP	43.5	-1.3	1.87 H	225	32.00	10.20
2	130.30	42.4 QP	43.5	-1.1	1.87 H	234	29.10	13.30
3	331.26	41.4 QP	46.0	-4.6	1.00 H	208	25.70	15.70
4	383.76	35.2 QP	46.0	-10.8	1.00 H	112	18.20	17.00
5	718.18	35.4 QP	46.0	-10.6	1.00 H	49	11.10	24.30
6	797.89	33.9 QP	46.0	-12.1	1.00 H	64	8.70	25.20
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	57.12	34.1 QP	40.0	-5.9	1.25 V	313	20.60	13.50
2	99.89	39.3 QP	43.5	-4.2	1.25 V	238	29.10	10.20
3	113.50	36.2 QP	43.5	-7.3	1.00 V	235	24.40	11.80
4	527.64	34.1 QP	46.0	-11.9	1.00 V	220	13.30	20.80
5	799.84	39.8 QP	46.0	-6.2	1.25 V	217	14.60	25.20
6	912.61	40.7 QP	46.0	-5.3	1.00 V	187	13.60	27.10

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

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
FREQUENCY	5785MHz	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 68%RH	TEST MODE	B
TESTED BY	David Huang		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	98.89	42.4 QP	43.5	-1.1	2.00 H	241	32.30	10.10
2	131.00	42.0 QP	43.5	-1.5	2.00 H	214	28.60	13.40
3	333.21	43.6 QP	46.0	-2.4	1.00 H	199	27.80	15.80
4	480.97	38.1 QP	46.0	-7.9	2.00 H	229	18.40	19.70
5	527.64	34.5 QP	46.0	-11.5	1.25 H	238	13.60	20.90
6	685.13	38.1 QP	46.0	-7.9	1.25 H	112	14.20	23.90
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	99.89	40.4 QP	43.5	-3.1	1.25 V	217	30.10	10.30
2	121.28	40.2 QP	43.5	-3.3	1.00 V	331	27.50	12.70
3	333.21	37.0 QP	46.0	-9.0	1.00 V	157	21.20	15.80
4	527.64	34.2 QP	46.0	-11.8	1.25 V	205	13.30	20.90
5	663.74	42.2 QP	46.0	-3.8	1.00 V	349	18.60	23.60
6	912.61	42.5 QP	46.0	-3.5	1.25 V	178	15.40	27.10

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

5.2 CONDUCTED EMISSION MEASUREMENT

5.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

5.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Oct. 04, 2011	Oct. 03, 2012
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 30, 2010	Dec. 29, 2011
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 06, 2011	Jan. 05, 2012
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jul. 07, 2011	Jul. 06, 2012
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jun. 30, 2011	Jun. 29, 2012
LISN ROHDE & SCHWARZ	ENV216	100072	Jun. 10, 2011	Jun. 09, 2012
Software ADT	ADT_Cond_ V7.3.7	NA	NA	NA

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

5.2.3 TEST PROCEDURES

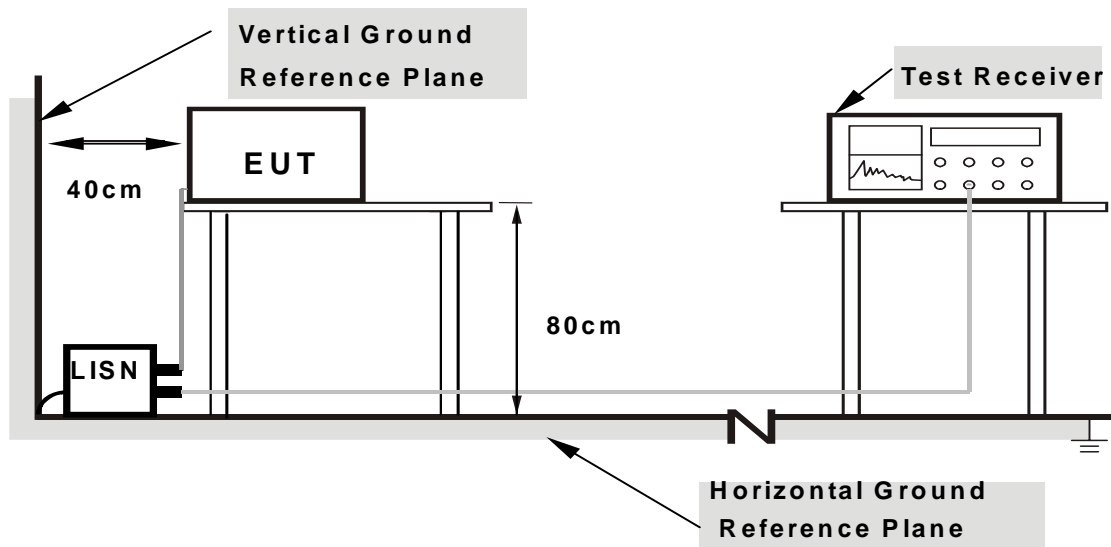
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

5.2.4 DEVIATION FROM TEST STANDARD

No deviation.

5.2.5 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).

5.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

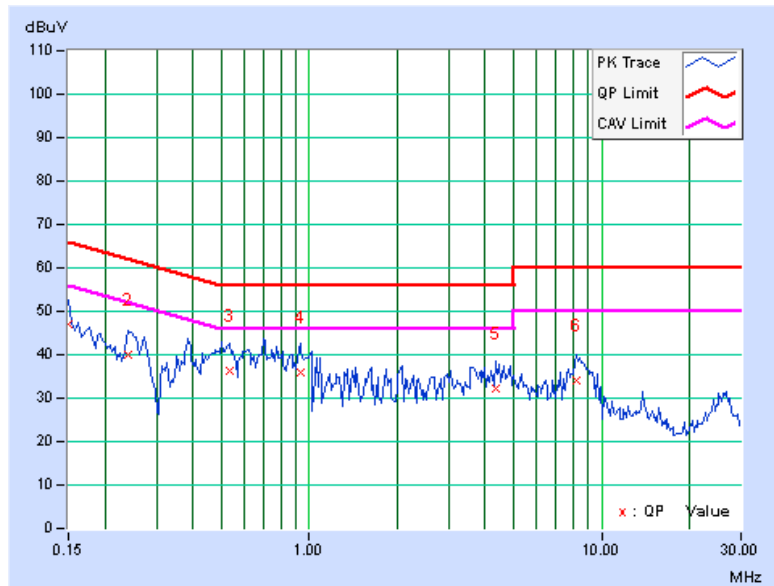
5.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.15	46.79	-	46.94	-	66.00	56.00	-19.06	-
2	0.240	0.15	39.85	-	40.00	-	62.10	52.10	-22.10	-
3	0.533	0.17	36.27	-	36.44	-	56.00	46.00	-19.56	-
4	0.931	0.19	35.60	-	35.79	-	56.00	46.00	-20.21	-
5	4.355	0.33	31.88	-	32.21	-	56.00	46.00	-23.79	-
6	8.168	0.49	33.46	-	33.95	-	60.00	50.00	-26.05	-

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



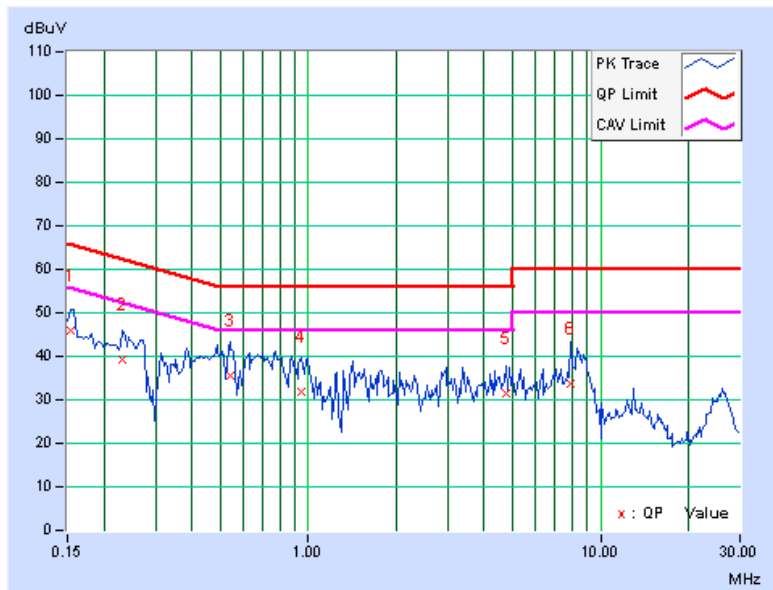


A D T

PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.16	45.73	-	45.89	-	65.79	55.79	-19.90	-
2	0.232	0.17	39.23	-	39.40	-	62.38	52.38	-22.97	-
3	0.541	0.19	35.36	-	35.55	-	56.00	46.00	-20.45	-
4	0.947	0.21	31.62	-	31.83	-	56.00	46.00	-24.17	-
5	4.727	0.34	31.32	-	31.66	-	56.00	46.00	-24.34	-
6	7.887	0.44	33.23	-	33.67	-	60.00	50.00	-26.33	-

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

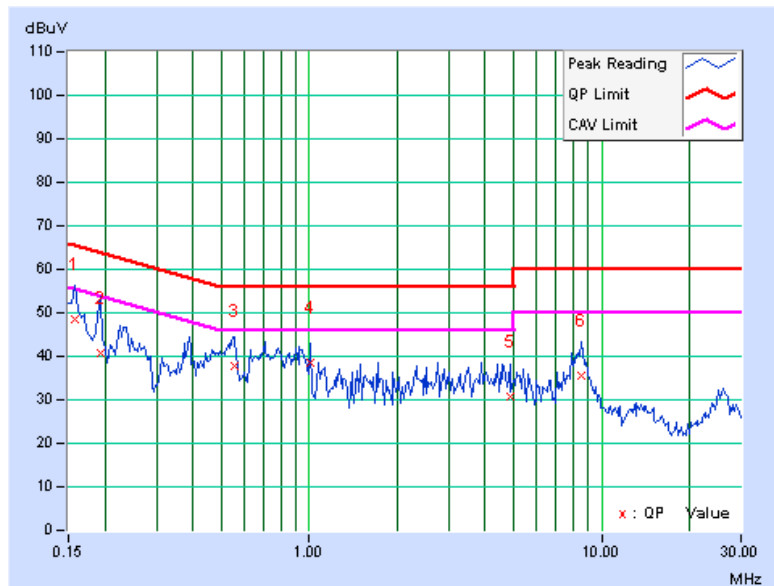


802.11n (40MHz)

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
	[MHz]	(dB)	[dB (uV)]	AV.	[dB (uV)]	AV.	[dB (uV)]	AV.	(dB)	AV.
1	0.158	0.15	48.31	-	48.46	-	65.58	55.58	-17.12	-
2	0.193	0.15	40.44	-	40.59	-	63.91	53.91	-23.32	-
3	0.556	0.18	37.72	-	37.90	-	56.00	46.00	-18.10	-
4	1.012	0.19	38.22	-	38.41	-	56.00	46.00	-17.59	-
5	4.852	0.35	30.46	-	30.81	-	56.00	46.00	-25.19	-
6	8.543	0.50	35.13	-	35.63	-	60.00	50.00	-24.37	-

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



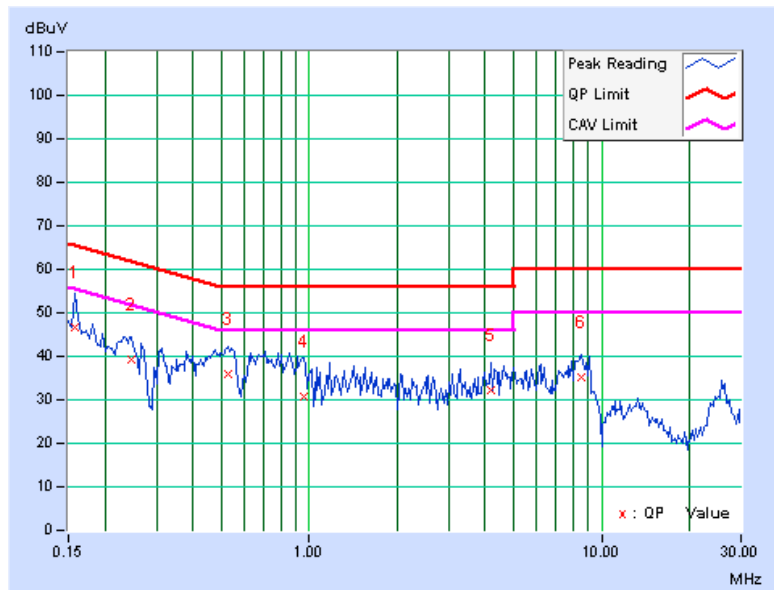


A D T

PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.16	46.47	-	46.63	-	65.58	55.58	-18.95	-
2	0.248	0.17	39.15	-	39.32	-	61.84	51.84	-22.51	-
3	0.525	0.19	35.72	-	35.91	-	56.00	46.00	-20.09	-
4	0.955	0.21	30.50	-	30.71	-	56.00	46.00	-25.29	-
5	4.176	0.33	31.88	-	32.21	-	56.00	46.00	-23.79	-
6	8.563	0.46	34.68	-	35.14	-	60.00	50.00	-24.86	-

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

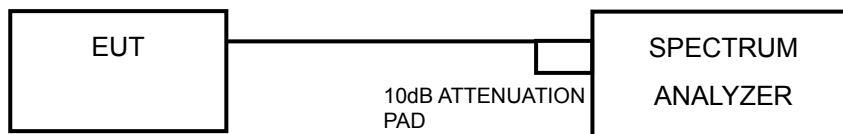


5.3 6dB BANDWIDTH MEASUREMENT

5.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

5.3.2 TEST SETUP



5.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.3.4 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = approximately 1% of the emission bandwidth
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

5.3.5 DEVIATION FROM TEST STANDARD

No deviation.

5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

5.3.7 TEST RESULTS

TEST MODE A

802.11a

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
	CHAIN 0	CHAIN 1		
5740	16.62	16.55	0.5	PASS
5785	16.60	16.69	0.5	PASS
5835	16.66	16.55	0.5	PASS

802.11n (20MHz)

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
	CHAIN 0	CHAIN 1		
5740	17.81	17.82	0.5	PASS
5785	16.61	16.63	0.5	PASS
5835	17.88	17.84	0.5	PASS

802.11n (40MHz)

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
	CHAIN 0	CHAIN 1		
5745	36.83	36.81	0.5	PASS
5785	37.08	36.83	0.5	PASS
5830	36.85	36.64	0.5	PASS

TEST MODE B

802.11a

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
	CHAIN 0	CHAIN 1		
5740	16.60	16.61	0.5	PASS
5785	16.62	16.60	0.5	PASS
5835	16.65	16.62	0.5	PASS

802.11n (20MHz)

CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
	CHAIN 0	CHAIN 1		
5740	17.83	17.90	0.5	PASS
5785	17.82	17.85	0.5	PASS
5835	17.81	17.89	0.5	PASS

802.11n (40MHz)

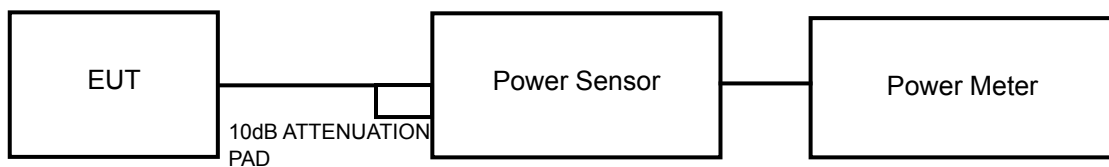
CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
	CHAIN 0	CHAIN 1		
5745	36.94	37.00	0.5	PASS
5785	36.94	37.07	0.5	PASS
5830	36.96	36.55	0.5	PASS

5.4 CONDUCTED OUTPUT POWER

5.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 5725 –5850 MHz bands: 1 Watt (30dBm)

5.4.2 TEST SETUP



5.4.3 INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.4.4 TEST PROCEDURES

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

5.4.5 DEVIATION FROM TEST STANDARD

No deviation.

5.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

5.4.7 TEST RESULTS

TEST MODE A

802.11a

CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
	CHAIN 0	CHAIN 1				
5740	26.4	27.4	986.1	29.9	30	PASS
5785	26.1	27.5	969.7	29.9	30	PASS
5835	25.8	27.4	929.7	29.7	30	PASS

802.11n (20MHz)

CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
	CHAIN 0	CHAIN 1				
5740	26.4	27.2	961.3	29.8	30	PASS
5785	26.3	27.1	939.4	29.7	30	PASS
5835	26.4	27.2	961.3	29.8	30	PASS

802.11n (40MHz)

CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
	CHAIN 0	CHAIN 1				
5745	26.5	27.1	959.5	29.8	30	PASS
5785	26.3	27.0	927.8	29.7	30	PASS
5830	26.0	27.1	911.0	29.6	30	PASS

TEST MODE B

802.11a

CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
	CHAIN 0	CHAIN 1				
5740	23.4	23.3	432.6	26.4	30	PASS
5785	23.8	24.0	491.1	26.9	30	PASS
5835	23.8	23.7	474.3	26.8	30	PASS

802.11n (20MHz)

CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
	CHAIN 0	CHAIN 1				
5740	23.6	24.0	480.3	26.8	30	PASS
5785	23.8	24.1	496.9	27.0	30	PASS
5835	23.5	23.8	463.8	26.7	30	PASS

802.11n (40MHz)

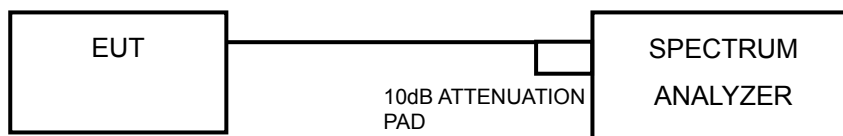
CHAN. FREQ. (MHz)	POWER OUTPUT (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
	CHAIN 0	CHAIN 1				
5745	24.1	24.1	514.1	27.1	30	PASS
5785	24.3	24.3	538.3	27.3	30	PASS
5830	24.0	24.2	514.2	27.1	30	PASS

5.5 POWER SPECTRAL DENSITY MEASUREMENT

5.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.5.2 TEST SETUP



5.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.5.4 TEST PROCEDURE.

1. Set the RBW = 100 kHz, VBW = 300 kHz, Detector = peak.
2. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
3. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/100\text{kHz})$

5.5.5 DEVIATION FROM TEST STANDARD

No deviation.

5.5.6 EUT OPERATING CONDITION

Same as Item 5.3.6.

5.5.7 TEST RESULTS

TEST MODE A

802.11a

TX chain	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	5740	6.96	-8.27	3.01	-5.26	8	PASS
	5785	6.94	-8.29	3.01	-5.28	8	PASS
	5835	6.40	-8.83	3.01	-5.82	8	PASS
1	5740	7.63	-7.60	3.01	-4.59	8	PASS
	5785	7.81	-7.42	3.01	-4.41	8	PASS
	5835	7.70	-7.53	3.01	-4.52	8	PASS

802.11n (20MHz)

TX chain	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	5740	6.87	-8.36	3.01	-5.35	8	PASS
	5785	6.92	-8.31	3.01	-5.30	8	PASS
	5825	6.77	-8.46	3.01	-5.45	8	PASS
1	5740	7.49	-7.74	3.01	-4.73	8	PASS
	5785	7.50	-7.73	3.01	-4.72	8	PASS
	5835	7.46	-7.77	3.01	-4.76	8	PASS

802.11n (40MHz)

TX chain	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	5745	5.01	-10.22	3.01	-7.21	8	PASS
	5785	5.03	-10.20	3.01	-7.19	8	PASS
	5830	4.50	-10.73	3.01	-7.72	8	PASS
1	5745	4.59	-10.64	3.01	-7.63	8	PASS
	5785	4.55	-10.68	3.01	-7.67	8	PASS
	5830	4.68	-10.55	3.01	-7.54	8	PASS

TEST MODE B

802.11a

TX chain	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	5740	2.71	-12.52	3.01	-9.51	8	PASS
	5785	3.33	-11.90	3.01	-8.89	8	PASS
	5835	2.18	-13.05	3.01	-10.04	8	PASS
1	5740	3.29	-11.94	3.01	-8.93	8	PASS
	5785	4.04	-11.19	3.01	-8.18	8	PASS
	5835	3.57	-11.66	3.01	-8.65	8	PASS

802.11n (20MHz)

TX chain	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	5740	2.21	-13.02	3.01	-10.01	8	PASS
	5785	2.34	-12.89	3.01	-9.88	8	PASS
	5825	1.97	-13.26	3.01	-10.25	8	PASS
1	5740	3.26	-11.97	3.01	-8.96	8	PASS
	5785	3.13	-12.10	3.01	-9.09	8	PASS
	5835	3.10	-12.13	3.01	-9.12	8	PASS

802.11n (40MHz)

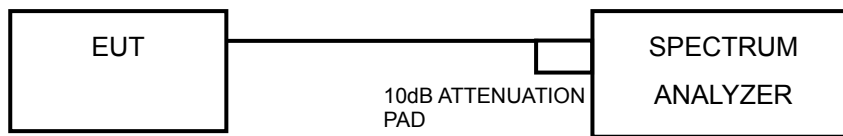
TX chain	FREQ. (MHz)	PSD (dBm/100kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	5745	0.02	-15.21	3.01	-12.20	8	PASS
	5785	0.06	-15.17	3.01	-12.16	8	PASS
	5830	0.06	-15.17	3.01	-12.16	8	PASS
1	5745	0.10	-15.13	3.01	-12.12	8	PASS
	5785	0.18	-15.05	3.01	-12.04	8	PASS
	5830	0.10	-15.13	3.01	-12.12	8	PASS

5.6 CONDUCTED EMISSION MEASUREMENT

5.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

5.6.2 TEST SETUP



5.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

5.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW \geq 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW \geq 300 kHz.
3. Set span to encompass the spectrum to be examined.
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

5.6.5 DEVIATION FROM TEST STANDARD

No deviation.

5.6.6 EUT OPERATING CONDITION

Same as Item 5.3.6

5.6.7 TEST RESULTS

The conducted emission test is performed on each TX port of operating mode without summing or adding $10\log(N)$ since the limit is relative emission limit. Only worst data of each operating mode is presented.

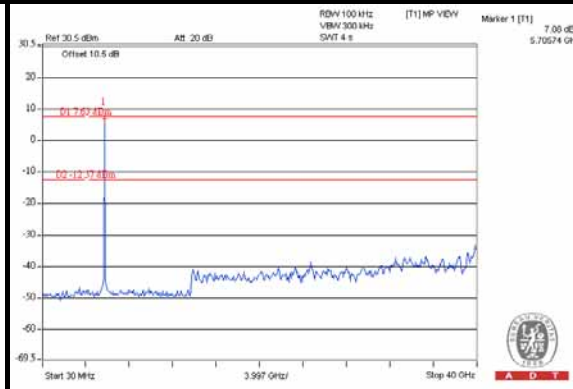
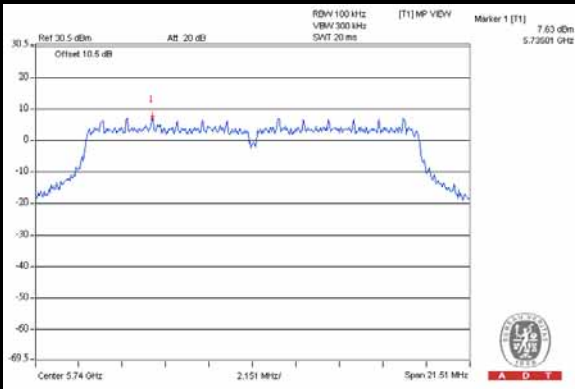
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).



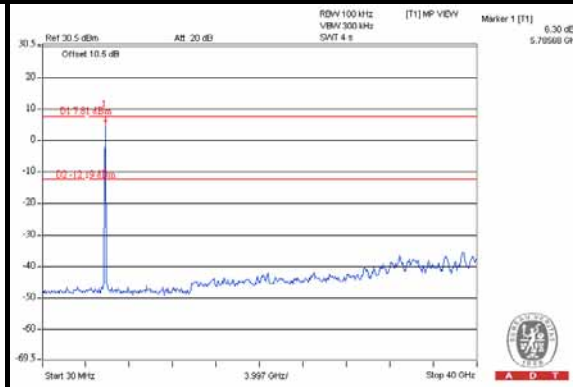
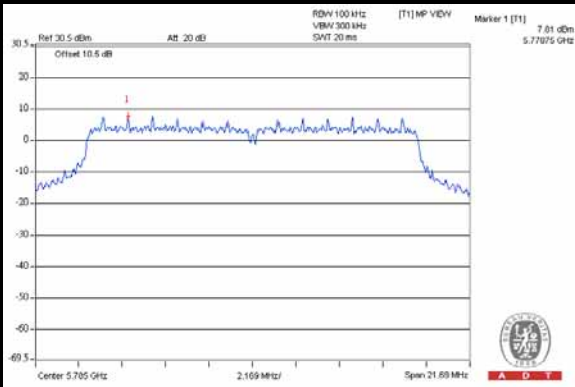
A D T

TEST MODE A 802.11a

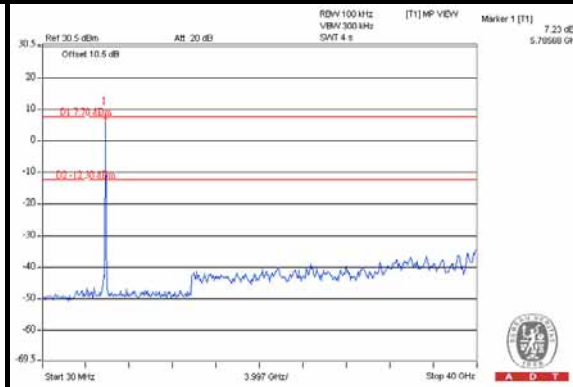
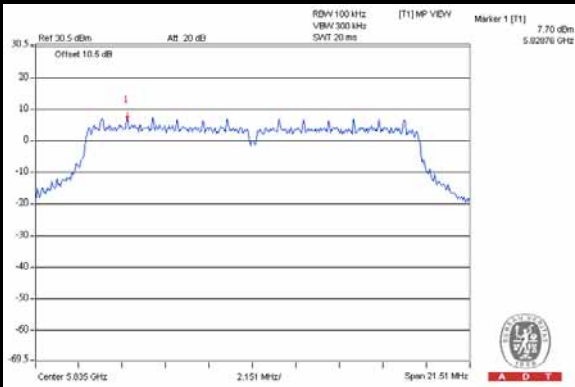
5740MHz



5785MHz



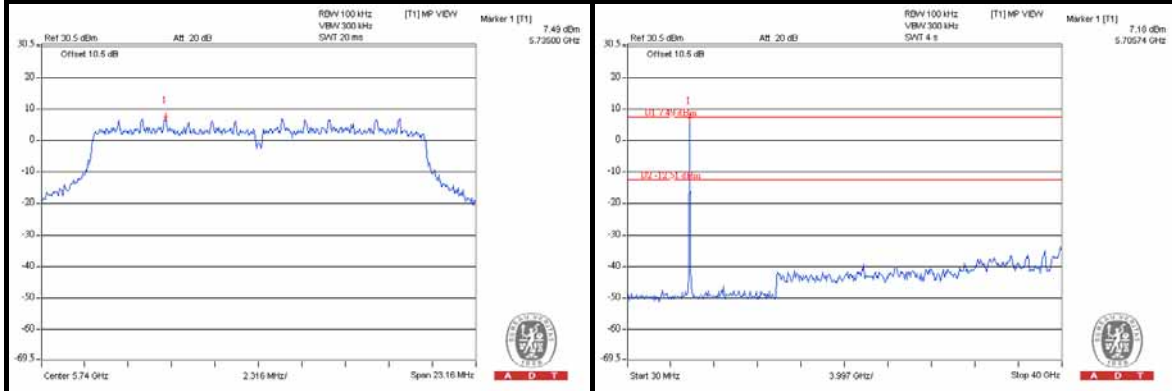
5835MHz



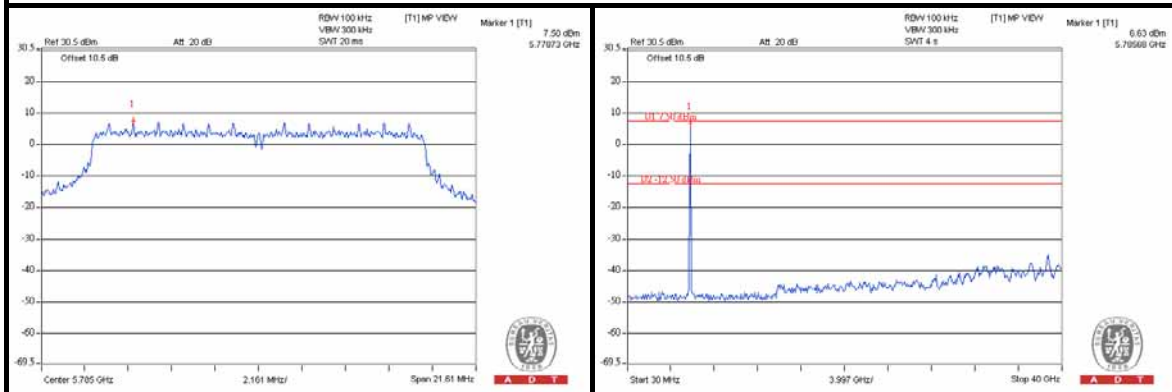


802.11n(20MHz)

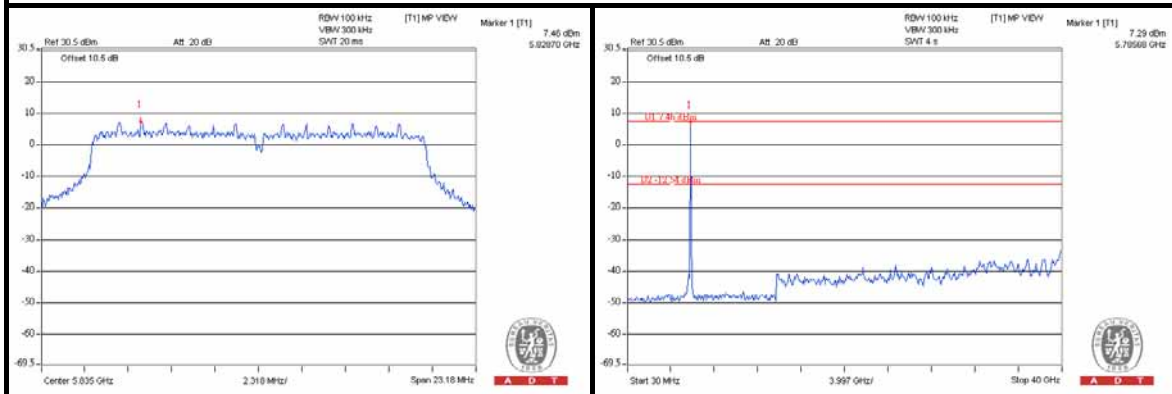
5740MHz



5785MHz



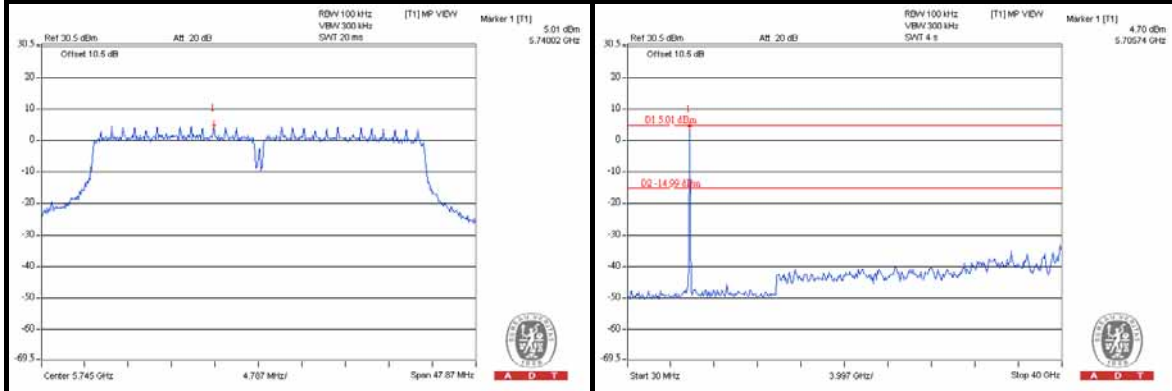
5835MHz



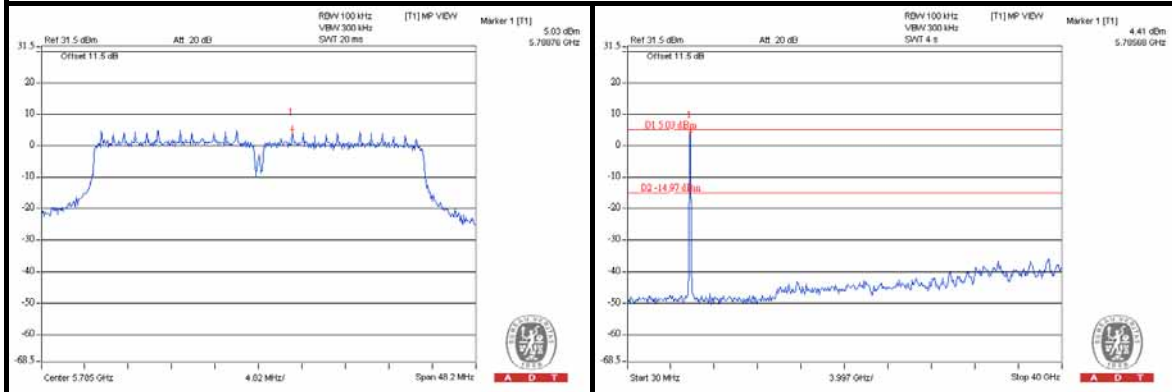


802.11n(40MHz)

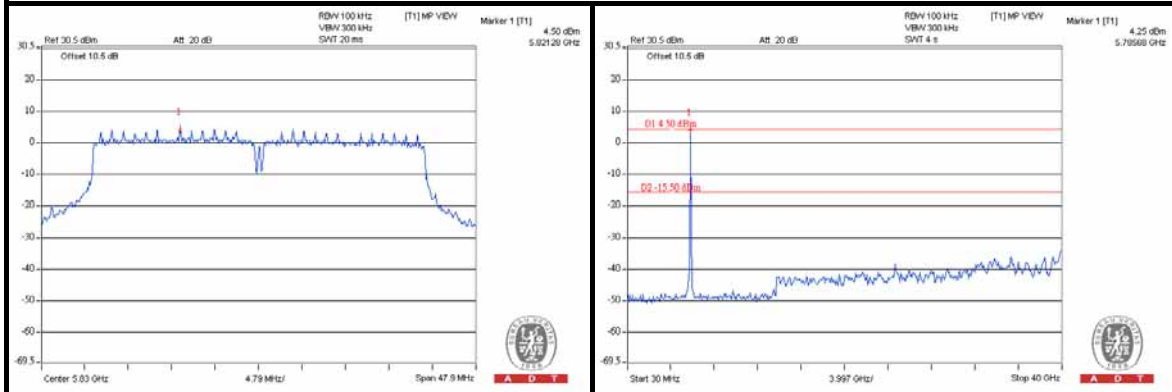
5745MHz



5785MHz



5830MHz

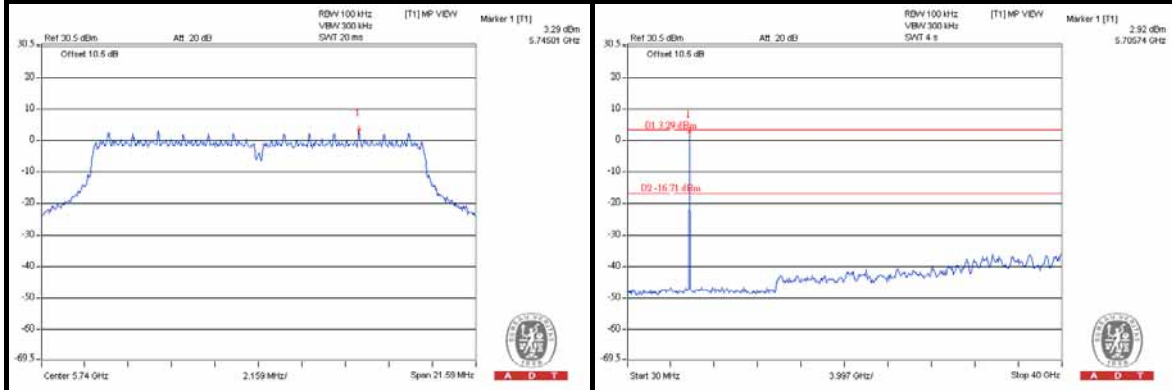




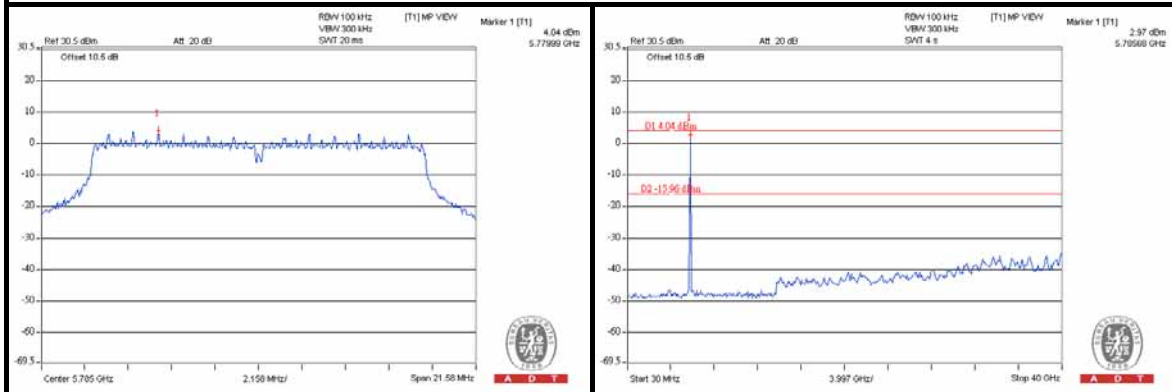
A D T

TEST MODE B 802.11a

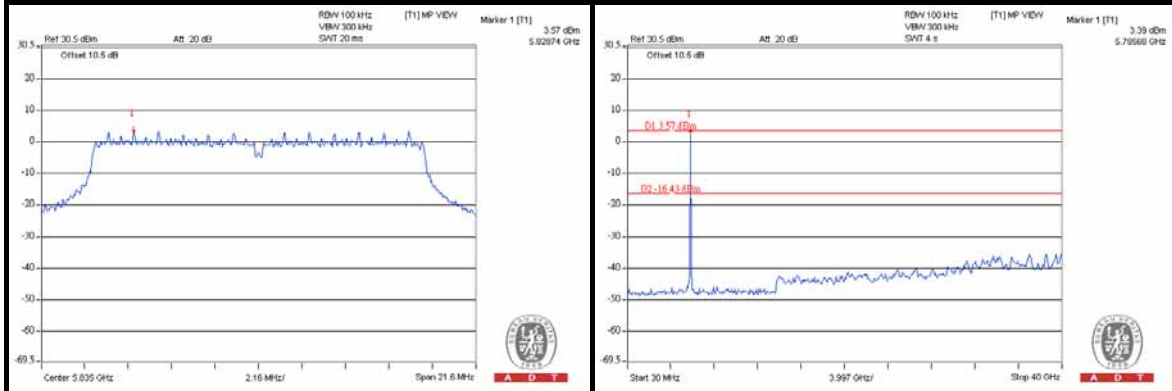
5740MHz



5785MHz



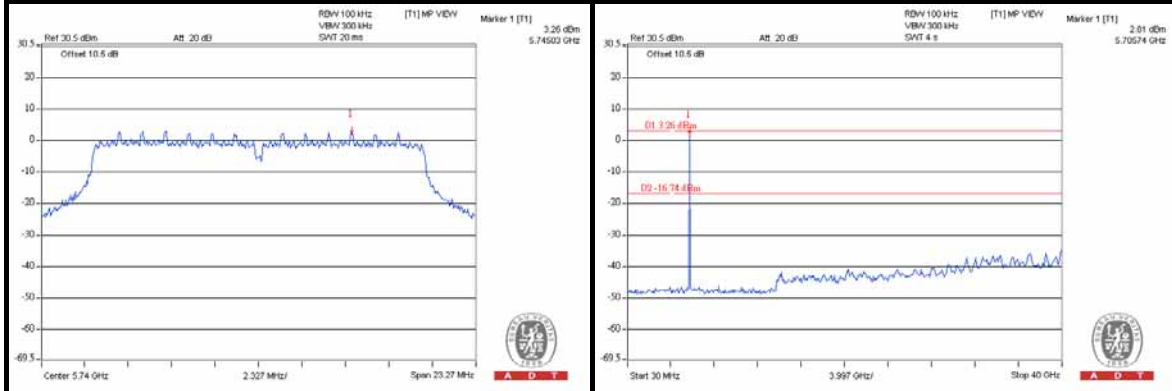
5835MHz



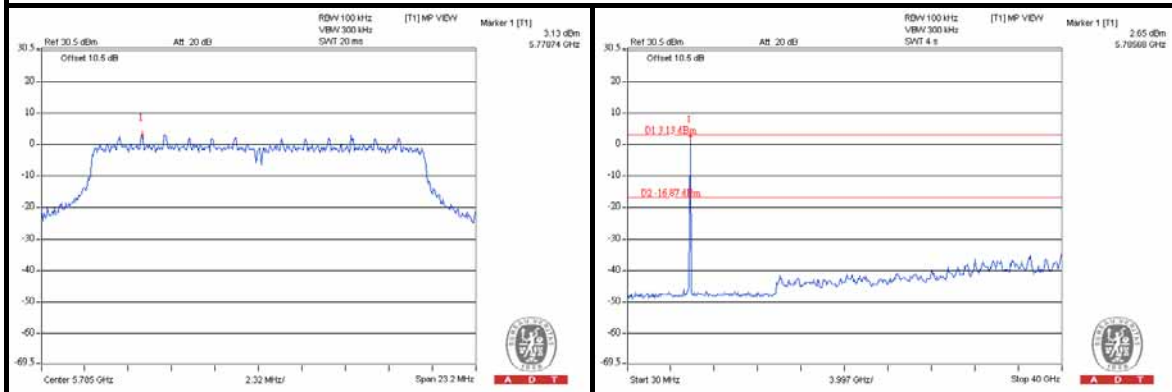


802.11n(20MHz)

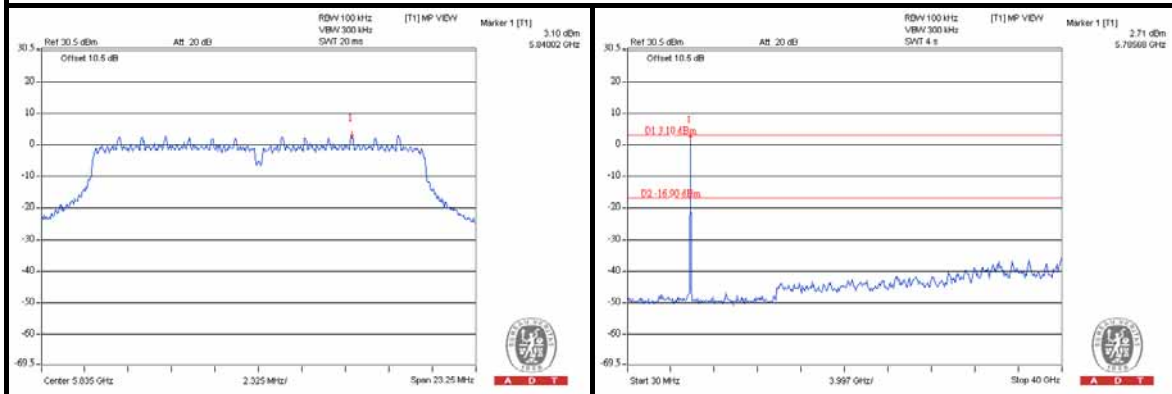
5740MHz



5785MHz



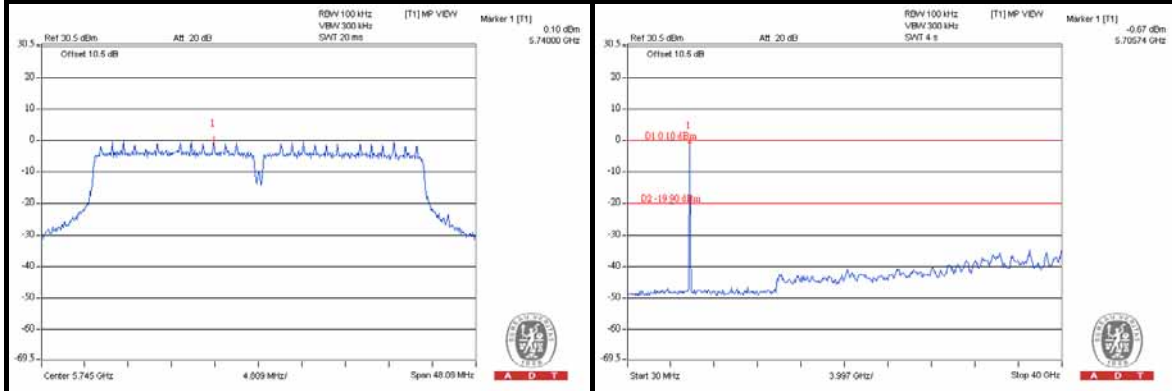
5835MHz



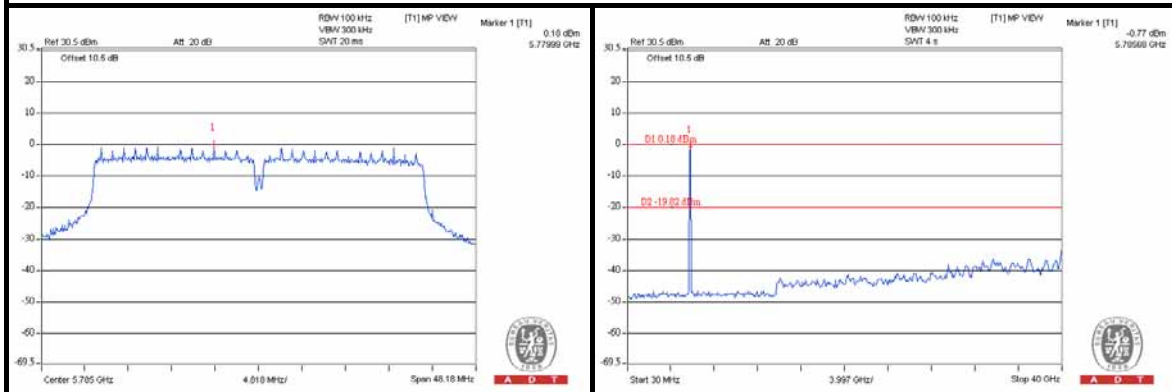


802.11n(40MHz)

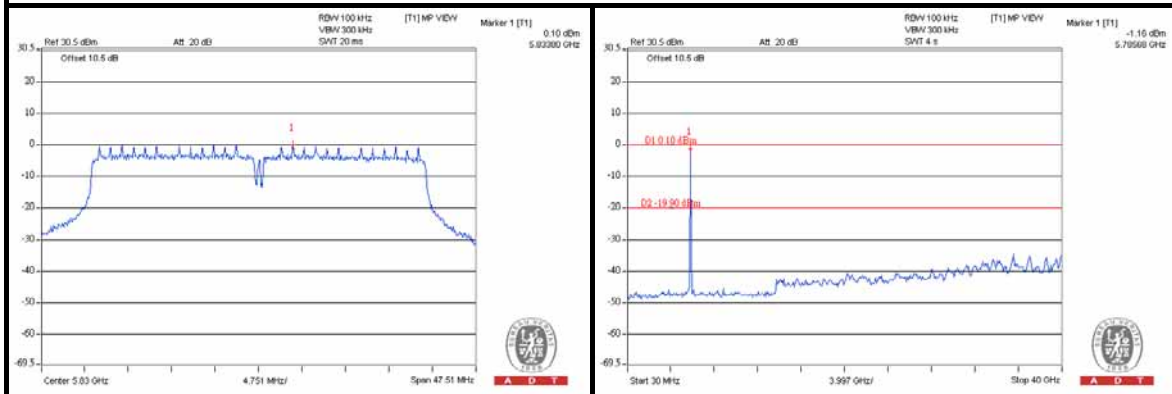
5745MHz



5785MHz



5830MHz





6. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



7. 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.

Copies of accreditation and authorization certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5.phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab

Tel: 886-3-3183232

Fax: 886-3-3185050

Email: service.adt@tw.bureauveritas.com

Web Site: www.adt.com.tw

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



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

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

---END---