

PARTIAL FCC TEST REPORT (15.407)

REPORT NO.: RF131009C16-2

MODEL NO.: TP00063A

FCC ID: GKR-TP00063AFX

RECEIVED: Oct. 09, 2013

TESTED: Oct. 23, 2013 ~ Oct. 30, 2013

ISSUED: Nov. 05, 2013

APPLICANT: Compal Electronics, INC

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131009C16-2	Original release	Nov. 05, 2013

1. CERTIFICATION

PRODUCT: Tablet Computer

MODEL: TP00063A

BRAND: Lenovo

APPLICANT: Compal Electronics, INC

TESTED: Oct. 23, 2013 ~ Oct. 30, 2013

TEST SAMPLE: Identical Prototype

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10-2009

The above equipment (model: TP00063A) 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 : Vera Huang , **DATE** : Nov. 05, 2013

Vera Huang / Specialist

APPROVED BY : Sam chen , **DATE** : Nov. 05, 2013

Sam Chen / Assistant Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -1.40dB at 0.56406MHz.
15.407(b/1/2/3)(b)(6)	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.23dB at 5470MHz.
15.407(a/1/2)	Max Average Transmit Power	N/A	Refer to NOTE below.
15.407(a)(6)	Peak Power Excursion	N/A	Refer to NOTE below.
15.407(a/1/2)	Peak Power Spectral Density	N/A	Refer to NOTE below.
15.407(g)	Frequency Stability	N/A	Refer to NOTE below.
15.203	Antenna Requirement	N/A	Refer to NOTE below.

NOTE: Test items for conducted and radiated emission were performed for this report. Other testing data please refer to module (Brand: FOXCONN, Model: T77H506, FCC ID: MCLT77H506) Report No.: RF130723E04-1

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Tablet Computer
MODEL NO.	TP00063A
POWER SUPPLY	5.2Vdc (Adapter)
MODULATION TYPE	64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz & 5500 ~ 5700MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (20MHz) 3 for 802.11n (40MHz)
ANTENNA TYPE	Refer to note
ANTENNA CONNECTOR	NA
DATA CABLE	NA
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

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

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

2. The EUT contains the following accessories.

Product	Brand	Model	Description
Adapter 1	Lenovo	PA-1100-17	Input: 100-240Vac, 50/60Hz, 0.3A Output: 5.2Vdc, 2A
Adapter 2	Lenovo	AD897F23	Input: 100-240Vac, 50/60Hz, 0.3A Output: 5.2Vdc, 2A

3. The antenna information is listed as below.

Antenna Type	EUT CONFIG. MODE	Brand Name	Parts Number	Antenna Gain
PIFA	A	High-Tek Electronics Co., Ltd	WLAN Main Antenna: DC33001FM20 WLAN Aux Antenna: DC33001FM30	2.4GHz: -1.32 5GHz: 1.81
	B	TE Connectivity.	WLAN Main Antenna: 1556629 WLAN Aux Antenna: 1556631	2.4GHz: -2.89 5GHz: 0.50

4. The above EUT information is declared by manufacturer and for more detailed feature description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

FOR 5260 ~ 5320MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

FOR 5500 ~ 5700MHz

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

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

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

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

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	
A	√	√	√	Manufacturer of Antenna: High-Tek Electronics Co., Ltd
B	√	√	-	Manufacturer of Antenna: TE Connectivity.

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

NOTE:

The antenna of the EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane** for Mode A and Mode B.

RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode.

EUT CONFIG. MODE	TEST CONDITION
A	BT Link + WLAN (5G) Link + USB Cable + Adapter 1 + Earphone

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	David Huang
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	David Huang
PLC	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao

3.3 DESCRIPTION OF SUPPORT UNITS

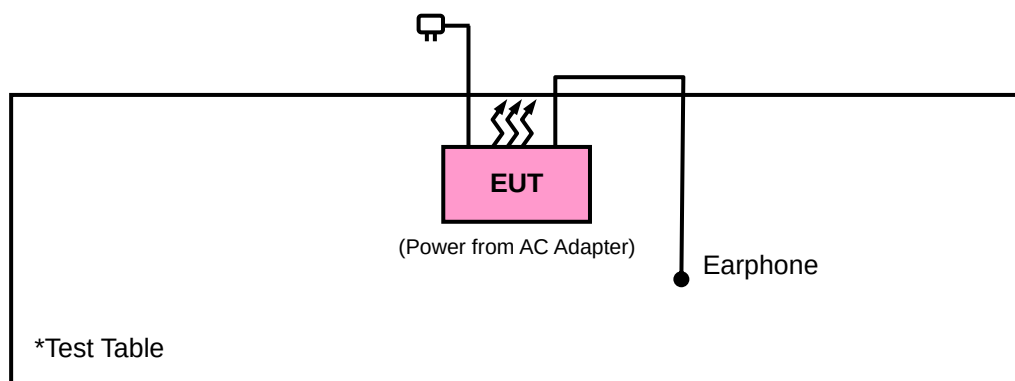
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	EARPHONE	NA	NA	NA	NA

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).

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST



3.4 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 D01 General UNII Test Procedures v01 r03

662911 D01 Multiple Transmitter Output v02

ANSI C63.10-2009

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

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

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

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

NOTE:

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

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

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

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

4.1.3 TEST INSTRUMENTS

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

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 10.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 690701.
6. The IC Site Registration No. is IC 7450F-10.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

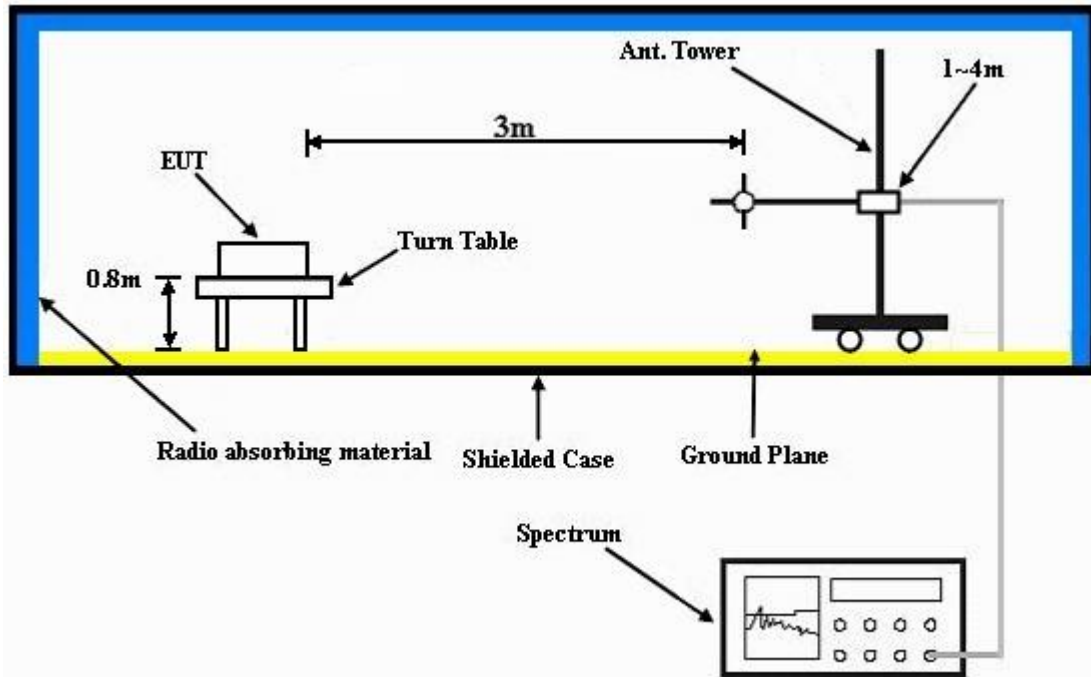
NOTE:

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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

4.1.6 TEST SETUP



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

4.1.7 EUT OPERATING CONDITION

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

4.1.8 TEST RESULTS

MODE A

ABOVE 1GHz DATA :

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	43.97	44.68	54	-10.03	31.32	5.29	37.32	100	292	Average
5150	61.68	62.39	74	-12.32	31.32	5.29	37.32	100	292	Peak
5180	97.38	98.06			31.35	5.31	37.34	100	292	Average
5180	106.36	107.04			31.35	5.31	37.34	100	292	Peak
5394	50.29	50.55	54	-3.71	31.51	5.41	37.18	100	292	Average
5394	62.88	63.14	74	-11.12	31.51	5.41	37.18	100	292	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5058	42.71	43.46	54	-11.29	31.25	5.25	37.25	100	33	Average
5058	60.14	60.89	74	-13.86	31.25	5.25	37.25	100	33	Peak
5180	98.24	98.92			31.35	5.31	37.34	100	33	Average
5180	107.06	107.74			31.35	5.31	37.34	100	33	Peak
5396	46.05	46.3	54	-7.95	31.52	5.41	37.18	100	33	Average
5396	60.28	60.53	74	-13.72	31.52	5.41	37.18	100	33	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5100	46.83	47.56	54	-7.17	31.28	5.27	37.28	102	291	Average
5100	60.84	61.57	74	-13.16	31.28	5.27	37.28	102	291	Peak
5320	100.4	100.76			31.45	5.38	37.19	102	291	Average
5320	109.21	109.57			31.45	5.38	37.19	102	291	Peak
5350	44.73	45.04	54	-9.27	31.48	5.39	37.18	102	291	Average
5350	61.87	62.18	74	-12.13	31.48	5.39	37.18	102	291	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5100	44.64	45.37	54	-9.36	31.28	5.27	37.28	111	33	Average
5100	60.51	61.24	74	-13.49	31.28	5.27	37.28	111	33	Peak
5320	99.11	99.47			31.45	5.38	37.19	111	33	Average
5320	109.08	109.44			31.45	5.38	37.19	111	33	Peak
5356	42.72	43.03	54	-11.28	31.48	5.39	37.18	111	33	Average
5356	60.74	61.05	74	-13.26	31.48	5.39	37.18	111	33	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5402	41.7	41.95	54	-12.3	31.52	5.41	37.18	115	358	Average
5402	59.34	59.59	74	-14.66	31.52	5.41	37.18	115	358	Peak
5470	58.51	58.57	68.3	-9.79	31.57	5.45	37.08	115	358	Peak
5580	97.98	97.93			31.71	5.5	37.16	115	358	Average
5580	106.65	106.6			31.71	5.5	37.16	115	358	Peak
5725	58.61	58.49	68.3	-9.69	31.96	5.59	37.43	115	358	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5428	41.16	41.34	54	-12.84	31.53	5.42	37.13	100	49	Average
5428	59.65	59.83	74	-14.35	31.53	5.42	37.13	100	49	Peak
5470	58.23	58.29	68.3	-10.07	31.57	5.45	37.08	100	49	Peak
5580	97.07	97.02			31.71	5.5	37.16	100	49	Average
5580	106	105.95			31.71	5.5	37.16	100	49	Peak
5725	58.42	58.3	68.3	-9.88	31.96	5.59	37.43	100	49	Peak

REMARKS:

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



A D T

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5026	45.29	46.06	54	-8.71	31.23	5.24	37.24	114	294	Average
5026	60.96	61.73	74	-13.04	31.23	5.24	37.24	114	294	Peak
5240	97.43	98.02			31.39	5.34	37.32	114	294	Average
5240	105.99	106.58			31.39	5.34	37.32	114	294	Peak
5456	47.48	47.56	54	-6.52	31.56	5.44	37.08	114	294	Average
5456	61.17	61.25	74	-12.83	31.56	5.44	37.08	114	294	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5020	43.88	44.67	54	-10.12	31.21	5.24	37.24	100	40	Average
5020	60.01	60.8	74	-13.99	31.21	5.24	37.24	100	40	Peak
5240	98.62	99.21			31.39	5.34	37.32	100	40	Average
5240	107.56	108.15			31.39	5.34	37.32	100	40	Peak
5426	43.32	43.5	54	-10.68	31.53	5.42	37.13	100	40	Average
5426	60.67	60.85	74	-13.33	31.53	5.42	37.13	100	40	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5098	48.7	49.43	54	-5.3	31.28	5.27	37.28	112	294	Average
5098	62.56	63.29	74	-11.44	31.28	5.27	37.28	112	294	Peak
5320	98.71	99.07			31.45	5.38	37.19	112	294	Average
5320	108.93	109.29			31.45	5.38	37.19	112	294	Peak
5350	43.21	43.52	54	-10.79	31.48	5.39	37.18	112	294	Average
5350	60.63	60.94	74	-13.37	31.48	5.39	37.18	112	294	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5014	44.96	45.74	54	-9.04	31.21	5.24	37.23	100	11	Average
5014	59.8	60.58	74	-14.2	31.21	5.24	37.23	100	11	Peak
5320	96.77	97.13			31.45	5.38	37.19	100	11	Average
5320	105.66	106.02			31.45	5.38	37.19	100	11	Peak
5350	42.03	42.34	54	-11.97	31.48	5.39	37.18	100	11	Average
5350	61.67	61.98	74	-12.33	31.48	5.39	37.18	100	11	Peak

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5398	40.92	41.17	54	-13.08	31.52	5.41	37.18	102	357	Average
5398	59.37	59.62	74	-14.63	31.52	5.41	37.18	102	357	Peak
5470	58.1	58.16	68.3	-10.2	31.57	5.45	37.08	102	357	Peak
5580	98.53	98.48			31.71	5.5	37.16	102	357	Average
5580	107.47	107.42			31.71	5.5	37.16	102	357	Peak
5725	58.89	58.77	68.3	-9.41	31.96	5.59	37.43	102	357	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5382	41.32	41.59	54	-12.68	31.51	5.4	37.18	108	13	Average
5382	59.48	59.75	74	-14.52	31.51	5.4	37.18	108	13	Peak
5470	59.41	59.47	68.3	-8.89	31.57	5.45	37.08	108	13	Peak
5580	100.35	100.3			31.71	5.5	37.16	108	13	Average
5580	109.07	109.02			31.71	5.5	37.16	108	13	Peak
5725	58.43	58.31	68.3	-9.87	31.96	5.59	37.43	108	13	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level - Limit Value
2. 5580MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	46.72	47.43	54	-7.28	31.32	5.29	37.32	115	289	Average
5150	62.78	63.49	74	-11.22	31.32	5.29	37.32	115	289	Peak
5190	95.52	96.19			31.35	5.32	37.34	115	289	Average
5190	105.18	105.85			31.35	5.32	37.34	115	289	Peak
5350	44.85	45.16	54	-9.15	31.48	5.39	37.18	115	289	Average
5350	60.48	60.79	74	-13.52	31.48	5.39	37.18	115	289	Peak
ANTENNA POLARITY & test distance: VERTICAL at 3 m										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	47.44	48.15	54	-6.56	31.32	5.29	37.32	100	41	Average
5150	63.56	64.27	74	-10.44	31.32	5.29	37.32	100	41	Peak
5190	95.85	96.52			31.35	5.32	37.34	100	41	Average
5190	106.04	106.71			31.35	5.32	37.34	100	41	Peak
5404	40.44	40.69	54	-13.56	31.52	5.41	37.18	100	41	Average
5404	60.45	60.7	74	-13.55	31.52	5.41	37.18	100	41	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5128	43.55	44.26	54	-10.45	31.31	5.28	37.3	103	291	Average
5128	60.28	60.99	74	-13.72	31.31	5.28	37.3	103	291	Peak
5310	97.39	97.76			31.45	5.37	37.19	103	291	Average
5310	107.11	107.48			31.45	5.37	37.19	103	291	Peak
5350	51.36	51.67	54	-2.64	31.48	5.39	37.18	103	291	Average
5350	68.07	68.38	74	-5.93	31.48	5.39	37.18	103	291	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5114	42.65	43.36	54	-11.35	31.29	5.28	37.28	100	29	Average
5114	60.42	61.13	74	-13.58	31.29	5.28	37.28	100	29	Peak
5310	96.69	97.06			31.45	5.37	37.19	100	29	Average
5310	106.56	106.93			31.45	5.37	37.19	100	29	Peak
5350	50.29	50.6	54	-3.71	31.48	5.39	37.18	100	29	Average
5350	66.11	66.42	74	-7.89	31.48	5.39	37.18	100	29	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	43.5	43.58	54	-10.5	31.56	5.44	37.08	102	357	Average
5460	59.87	59.95	74	-14.13	31.56	5.44	37.08	102	357	Peak
5470	64.4	64.46	68.3	-3.9	31.57	5.45	37.08	102	357	Peak
5510	94.73	94.73			31.6	5.46	37.06	102	357	Average
5510	104.05	104.05			31.6	5.46	37.06	102	357	Peak
5725	58.45	58.33	68.3	-9.85	31.96	5.59	37.43	102	357	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	47.05	47.13	54	-6.95	31.56	5.44	37.08	108	10	Average
5460	65.51	65.59	74	-8.49	31.56	5.44	37.08	108	10	Peak
5470	67.07	67.13	68.3	-1.23	31.57	5.45	37.08	108	10	Peak
5510	98	98			31.6	5.46	37.06	108	10	Average
5510	106.98	106.98			31.6	5.46	37.06	108	10	Peak
5725	60.14	60.02	68.3	-8.16	31.96	5.59	37.43	108	10	Peak

REMARKS:

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

BELOW 1GHz WORST-CASE DATA :

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-Peak (QP)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
42.69	27.88	44.68	40	-12.12	13.58	0.7	31.08	100	197	Peak
164.73	25.74	43.88	43.5	-17.76	12.25	1.42	31.81	100	225	Peak
270.57	22.22	40.23	46	-23.78	12.08	1.92	32.01	100	206	Peak
388.2	20.05	34.64	46	-25.95	15.05	2.38	32.02	100	155	Peak
638.1	25.96	34.79	46	-20.04	20.07	3.2	32.1	100	276	Peak
924.4	28.59	32.92	46	-17.41	23.65	4.02	32	100	163	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
36.75	31.74	49.06	40	-8.26	13.09	0.62	31.03	100	303	QP
150.96	23.54	41.12	43.5	-19.96	12.71	1.35	31.64	100	121	Peak
277.32	21	38.65	46	-25	12.28	1.95	31.88	100	225	Peak
408.5	19.79	33.85	46	-26.21	15.5	2.46	32.02	100	156	Peak
638.1	25.08	33.91	46	-20.92	20.07	3.2	32.1	100	201	Peak
948.2	28.52	32.5	46	-17.48	23.78	4.07	31.83	100	245	Peak

REMARKS:

Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin Value = Emission Level - Limit Value

MODE B

ABOVE 1GHz DATA :

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	42.15	42.86	54	-11.85	31.32	5.29	37.32	100	324	Average
5150	59.16	59.87	74	-14.84	31.32	5.29	37.32	100	324	Peak
5180	97.2	97.88			31.35	5.31	37.34	100	324	Average
5180	106.27	106.95			31.35	5.31	37.34	100	324	Peak
5396	43.84	44.09	54	-10.16	31.52	5.41	37.18	100	324	Average
5396	59.89	60.14	74	-14.11	31.52	5.41	37.18	100	324	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5102	38.84	39.57	54	-15.16	31.28	5.27	37.28	110	11	Average
5102	59.49	60.22	74	-14.51	31.28	5.27	37.28	110	11	Peak
5180	92.89	93.57			31.35	5.31	37.34	110	11	Average
5180	102.03	102.71			31.35	5.31	37.34	110	11	Peak
5446	42.45	42.58	54	-11.55	31.56	5.44	37.13	110	11	Average
5446	60.92	61.05	74	-13.08	31.56	5.44	37.13	110	11	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5094	46.47	47.2	54	-7.53	31.28	5.27	37.28	116	286	Average
5094	61.14	61.87	74	-12.86	31.28	5.27	37.28	116	286	Peak
5320	98.5	98.86			31.45	5.38	37.19	116	286	Average
5320	107.49	107.85			31.45	5.38	37.19	116	286	Peak
5350	43.05	43.36	54	-10.95	31.48	5.39	37.18	116	286	Average
5350	61.41	61.72	74	-12.59	31.48	5.39	37.18	116	286	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5102	41.43	42.16	54	-12.57	31.28	5.27	37.28	108	38	Average
5102	59.47	60.2	74	-14.53	31.28	5.27	37.28	108	38	Peak
5320	95.45	95.81			31.45	5.38	37.19	108	38	Average
5320	104.56	104.92			31.45	5.38	37.19	108	38	Peak
5460	40.59	40.67	54	-13.41	31.56	5.44	37.08	108	38	Average
5460	60.93	61.01	74	-13.07	31.56	5.44	37.08	108	38	Peak

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5372	49.05	49.34	54	-4.95	31.49	5.4	37.18	110	282	Average
5372	61.67	61.96	74	-12.33	31.49	5.4	37.18	110	282	Peak
5470	58.65	58.71	68.3	-9.65	31.57	5.45	37.08	110	282	Peak
5580	99.03	98.98			31.71	5.5	37.16	110	282	Average
5580	108.66	108.61			31.71	5.5	37.16	110	282	Peak
5725	59.7	59.58	68.3	-8.6	31.96	5.59	37.43	110	282	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5374	44.63	44.92	54	-9.37	31.49	5.4	37.18	108	71	Average
5374	60.18	60.47	74	-13.82	31.49	5.4	37.18	108	71	Peak
5470	59.3	59.36	68.3	-9	31.57	5.45	37.08	108	71	Peak
5580	95.92	95.87			31.71	5.5	37.16	108	71	Average
5580	105.02	104.97			31.71	5.5	37.16	108	71	Peak
5725	59.32	59.2	68.3	-8.98	31.96	5.59	37.43	108	71	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level - Limit Value
2. 5580MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5080	38.56	39.3	54	-15.44	31.27	5.26	37.27	125	51	Average
5080	59.85	60.59	74	-14.15	31.27	5.26	37.27	125	51	Peak
5240	89.04	89.63			31.39	5.34	37.32	125	51	Average
5240	98.03	98.62			31.39	5.34	37.32	125	51	Peak
5448	38.34	38.47	54	-15.66	31.56	5.44	37.13	125	51	Average
5448	60.25	60.38	74	-13.75	31.56	5.44	37.13	125	51	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5134	39.47	40.18	54	-14.53	31.31	5.28	37.3	102	351	Average
5134	59.41	60.12	74	-14.59	31.31	5.28	37.3	102	351	Peak
5240	94.83	95.42			31.39	5.34	37.32	102	351	Average
5240	103.47	104.06			31.39	5.34	37.32	102	351	Peak
5460	43.35	43.43	54	-10.65	31.56	5.44	37.08	102	351	Average
5460	59.49	59.57	74	-14.51	31.56	5.44	37.08	102	351	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5098	46.46	47.19	54	-7.54	31.28	5.27	37.28	103	291	Average
5098	60.42	61.15	74	-13.58	31.28	5.27	37.28	103	291	Peak
5320	97.34	97.7			31.45	5.38	37.19	103	291	Average
5320	106.4	106.76			31.45	5.38	37.19	103	291	Peak
5350	41.45	41.76	54	-12.55	31.48	5.39	37.18	103	291	Average
5350	59.69	60	74	-14.31	31.48	5.39	37.18	103	291	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5040	40.8	41.55	54	-13.2	31.24	5.25	37.24	109	37	Average
5040	59.86	60.61	74	-14.14	31.24	5.25	37.24	109	37	Peak
5320	91.58	91.94			31.45	5.38	37.19	109	37	Average
5320	100.65	101.01			31.45	5.38	37.19	109	37	Peak
5352	38.88	39.19	54	-15.12	31.48	5.39	37.18	109	37	Average
5352	61.44	61.75	74	-12.56	31.48	5.39	37.18	109	37	Peak

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5374	50.42	50.71	54	-3.58	31.49	5.4	37.18	109	282	Average
5374	62.81	63.1	74	-11.19	31.49	5.4	37.18	109	282	Peak
5470	58.4	58.46	68.3	-9.9	31.57	5.45	37.08	109	282	Peak
5580	96.71	96.66			31.71	5.5	37.16	109	282	Average
5580	106.23	106.18			31.71	5.5	37.16	109	282	Peak
5725	58.44	58.32	68.3	-9.86	31.96	5.59	37.43	109	282	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5368	43.75	44.04	54	-10.25	31.49	5.4	37.18	108	64	Average
5368	60.33	60.62	74	-13.67	31.49	5.4	37.18	108	64	Peak
5470	57.52	57.58	68.3	-10.78	31.57	5.45	37.08	108	64	Peak
5580	94.76	94.71			31.71	5.5	37.16	108	64	Average
5580	103.86	103.81			31.71	5.5	37.16	108	64	Peak
5725	59.17	59.05	68.3	-9.13	31.96	5.59	37.43	108	64	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin Value = Emission Level - Limit Value
2. 5580MHz: Fundamental frequency.
3. 5470MHz & 5725MHz: Out of restricted band

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5008	46.87	47.67	54	-7.13	31.21	5.22	37.23	141	62	Average
5008	59.93	60.73	74	-14.07	31.21	5.22	37.23	141	62	Peak
5190	89.57	90.24			31.35	5.32	37.34	141	62	Average
5190	98.91	99.58			31.35	5.32	37.34	141	62	Peak
5460	38.97	39.05	54	-15.03	31.56	5.44	37.08	141	62	Average
5460	60.22	60.3	74	-13.78	31.56	5.44	37.08	141	62	Peak
ANTENNA POLARITY & test distance: VERTICAL at 3 m										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	48.51	49.22	54	-5.49	31.32	5.29	37.32	103	357	Average
5150	62.13	62.84	74	-11.87	31.32	5.29	37.32	103	357	Peak
5190	93	93.67			31.35	5.32	37.34	103	357	Average
5190	103.15	103.82			31.35	5.32	37.34	103	357	Peak
5392	39.76	40.02	54	-14.24	31.51	5.41	37.18	103	357	Average
5392	59.6	59.86	74	-14.4	31.51	5.41	37.18	103	357	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5132	42.69	43.4	54	-11.31	31.31	5.28	37.3	114	291	Average
5132	60.08	60.79	74	-13.92	31.31	5.28	37.3	114	291	Peak
5310	96.66	97.03			31.45	5.37	37.19	114	291	Average
5310	106.19	106.56			31.45	5.37	37.19	114	291	Peak
5350	50.26	50.57	54	-3.74	31.48	5.39	37.18	114	291	Average
5350	66.74	67.05	74	-7.26	31.48	5.39	37.18	114	291	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5014	39.22	40	54	-14.78	31.21	5.24	37.23	100	3	Average
5014	59.66	60.44	74	-14.34	31.21	5.24	37.23	100	3	Peak
5310	91.42	91.79			31.45	5.37	37.19	100	3	Average
5310	100.4	100.77			31.45	5.37	37.19	100	3	Peak
5352	46.48	46.79	54	-7.52	31.48	5.39	37.18	100	3	Average
5352	62.17	62.48	74	-11.83	31.48	5.39	37.18	100	3	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
2. Margin Value = Emission Level - Limit Value
3. 5310MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5350	45.23	45.54	54	-8.77	31.48	5.39	37.18	112	284	Average
5350	59.94	60.25	74	-14.06	31.48	5.39	37.18	112	284	Peak
5470	66.85	66.91	68.3	-1.45	31.57	5.45	37.08	112	284	Peak
5510	94.33	94.33			31.6	5.46	37.06	112	284	Average
5510	104.43	104.43			31.6	5.46	37.06	112	284	Peak
5725	59.24	59.12	68.3	-9.06	31.96	5.59	37.43	112	284	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5386	43.98	44.25	54	-10.02	31.51	5.4	37.18	100	59	Average
5386	61.31	61.58	74	-12.69	31.51	5.4	37.18	100	59	Peak
5470	63.42	63.48	68.3	-4.88	31.57	5.45	37.08	100	59	Peak
5510	92.32	92.32			31.6	5.46	37.06	100	59	Average
5510	101.85	101.85			31.6	5.46	37.06	100	59	Peak
5725	59.21	59.09	68.3	-9.09	31.96	5.59	37.43	100	59	Peak

REMARKS:

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

BELOW 1GHz WORST-CASE DATA :

802.11n (40MHz)

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-Peak (QP)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	David Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
37.02	23.71	41.03	40	-16.29	13.09	0.62	31.03	100	135	Peak
138.27	35.06	53.16	43.5	-8.44	12.27	1.29	31.66	100	147	Peak
249.78	21.46	40.08	46	-24.54	11.48	1.84	31.94	100	192	Peak
316.8	23.29	39.73	46	-22.71	13.36	2.11	31.91	100	253	Peak
629.7	23.27	32.27	46	-22.73	19.96	3.18	32.14	100	268	Peak
881.7	28	32.8	46	-18	23.27	3.91	31.98	100	195	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
36.75	31.62	48.94	40	-8.38	13.09	0.62	31.03	100	316	QP
117.75	33.33	53.3	43.5	-10.17	10.74	1.17	31.88	100	154	Peak
277.32	20.5	38.15	46	-25.5	12.28	1.95	31.88	100	267	Peak
343.4	17.44	33.09	46	-28.56	13.98	2.2	31.83	100	132	Peak
626.2	23.4	32.45	46	-22.6	19.93	3.17	32.15	100	261	Peak
932.8	27.94	32.18	46	-18.06	23.69	4.04	31.97	100	166	Peak

REMARKS:

Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin Value = Emission Level - Limit Value

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 09, 2012	Nov. 08, 2013
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 02, 2013	Jul. 01, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

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

4.2.3 TEST PROCEDURES

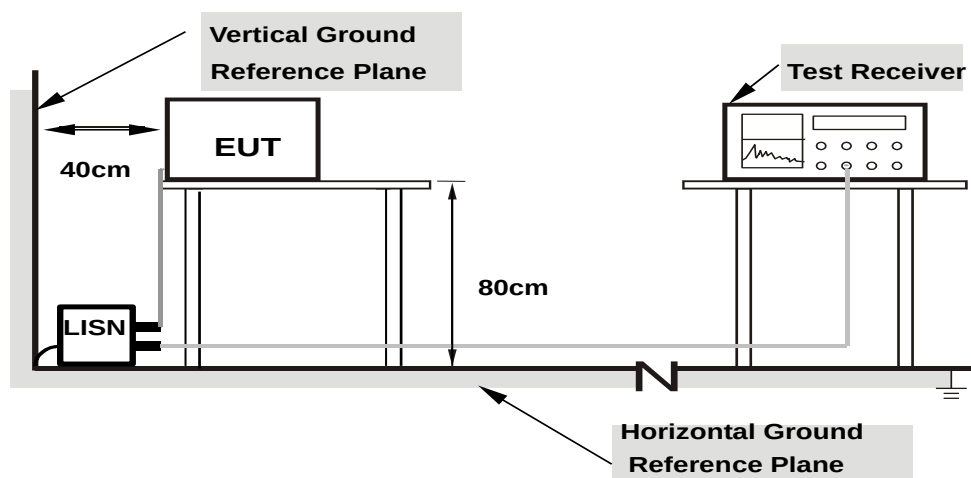
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



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

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

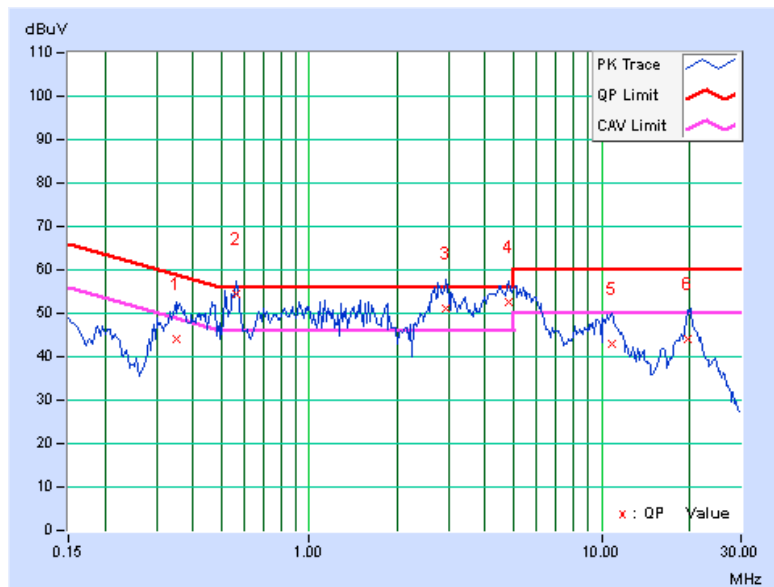
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA :

PHASE		Line 1			6dB BANDWIDTH		9kHz			
No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.34922	0.20	43.82	32.20	44.02	32.40	58.98	48.98	-14.96	-16.58
2	0.56406	0.23	54.18	44.37	54.41	44.60	56.00	46.00	-1.59	-1.40
3	2.94141	0.32	50.63	40.14	50.95	40.46	56.00	46.00	-5.05	-5.54
4	4.79297	0.38	52.36	42.50	52.74	42.88	56.00	46.00	-3.26	-3.12
5	10.79297	0.45	42.37	32.90	42.82	33.35	60.00	50.00	-17.18	-16.65
6	19.62891	0.63	43.59	31.56	44.22	32.19	60.00	50.00	-15.78	-17.81

REMARKS:

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

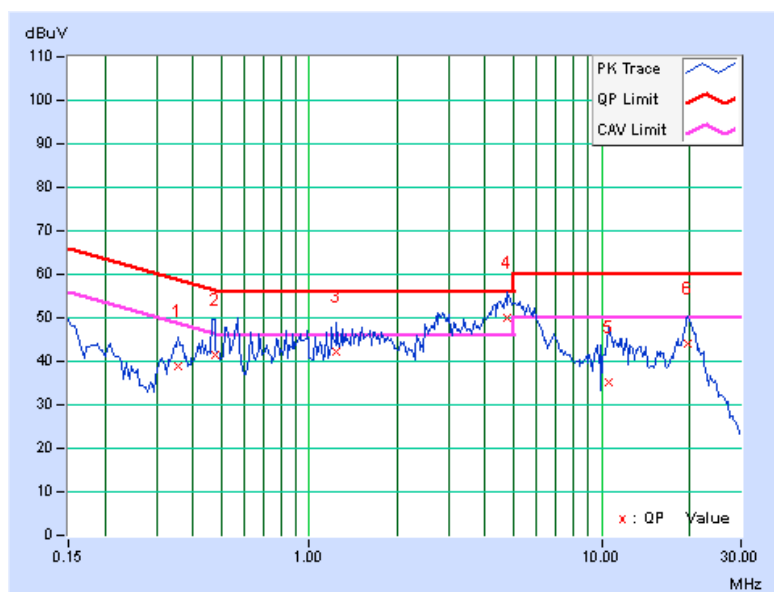


PHASE	Line 2	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.35703	0.23	38.83	31.56	39.06	31.79	58.80	48.80	-19.73	-17.00
2	0.47422	0.25	41.38	31.91	41.63	32.16	56.44	46.44	-14.81	-14.28
3	1.23438	0.24	41.86	31.30	42.10	31.54	56.00	46.00	-13.90	-14.46
4	4.78125	0.40	49.68	39.08	50.08	39.48	56.00	46.00	-5.92	-6.52
5	10.59766	0.49	34.58	26.15	35.07	26.64	60.00	50.00	-24.93	-23.36
6	19.67578	0.72	43.37	31.58	44.09	32.30	60.00	50.00	-15.91	-17.70

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



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6. INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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

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

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