

FCC TEST REPORT (WLAN)

REPORT NO.: RF130830C20

MODEL NO.: TF502T

FCC ID: MSQTF502T

RECEIVED: Aug. 30, 2013

TESTED: Sep. 09 ~ Sep. 16, 2013

ISSUED: Sep. 18, 2013

APPLICANT: ASUSTeK Computer 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
RF130830C20	Original release	Sep. 18, 2013



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1. CERTIFICATION

PRODUCT: ASUS Tablet

MODEL NO.: TF502T

BRAND: ASUS

APPLICANT: ASUSTeK Computer Inc

TESTED: Sep. 09 ~ Sep. 16, 2013

TEST SAMPLE: ENGINEERING SAMPLE

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

ANSI C63.10-2009

The above equipment (model: TF502T) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE :** Sep. 18, 2013

Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE :** Sep. 18, 2013

Ken Liu / Senior Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART 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 -5.62dB at 0.18906MHz.
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -1.5dB at 2483.50MHz.
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	No antenna connector is used.

2.1 MEASUREMENT UNCERTAINTY

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

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	ASUS Tablet
MODEL NO.	TF502T
POWER SUPPLY	3.7Vdc from battery 15Vdc from adapter 5Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: Up to 65Mbps
OPERATING FREQUENCY	2412 ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	91.833mW
ANTENNA TYPE	PIFA antenna with 2.3dBi gain
ANTENNA CONNECTOR	N/A
DATA CABLE	1.5m shielded USB cable without core
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Adapter, USB kit (Brand: KUANG, Model: ROR-USB60-00)

NOTE:

- The EUT provides one completed transmitter and one receiver.

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

- The EUT consumes power from the following battery & adapters.

NO.	PRODUCT	BRAND	MODEL	DESCRIPTION
1	Adapter 1	ASUS	ADP-18BW A	I/P: 100~240Vac, 50-60Hz, 0.5A O/P: 15Vdc, 1.2A (Class II), 40°C
2	Adapter 2	ASUS	ADP-18BW B	I/P: 100~240Vac, 50-60Hz, 0.5A O/P: 15Vdc, 1.2A (Class II), 40°C
3	Adapter 3	ASUS	AD8273	I/P: 100~240Vac, 50-60Hz, 0.5A O/P: 15Vdc, 1.2A (Class II), 40°C
4	Battery	ASUS	C12-TF600T	Rating: 3.7Vdc, 6760mAh, 25Wh

- 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 2.4GHz:

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	Power from Adapter 1
B	-	√	√	-	Power from Adapter 2
C	-	√	√	-	Power from Adapter 3
D	-	√	-	-	EUT with Mobile Dock
E	-	√	-	-	EUT standalone
F	-	√	-	-	EUT with USB dongle
G	-	√	√	-	EUT with Mobile Dock & Adapter 1
H	-	√	√	-	EUT with Mobile Dock & Adapter 2
I	-	√	√	-	EUT with Mobile Dock & Adapter 3

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

RE<1G: Radiated Emission below 1GHz
APCM: Antenna Port Conducted Measurement

NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: “-” means no effect.

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5

RADIATED EMISSION TEST (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B, C, D, E, F, G, H, I	802.11g	1 to 11	6	OFDM	BPSK	6.0

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A, B, C, G, H, I	802.11g	1 to 11	6	OFDM	BPSK	6.0

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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	6.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Ted Chang
RE $<$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Match Tsui
PLC	26deg. C, 60%RH	120Vac, 60Hz	Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Antony Lee



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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	Mobile Dock	ASUS	AD03	NA	FCC DoC Approved
2	USB dongle	Transcend	V85	569992-8209	NA

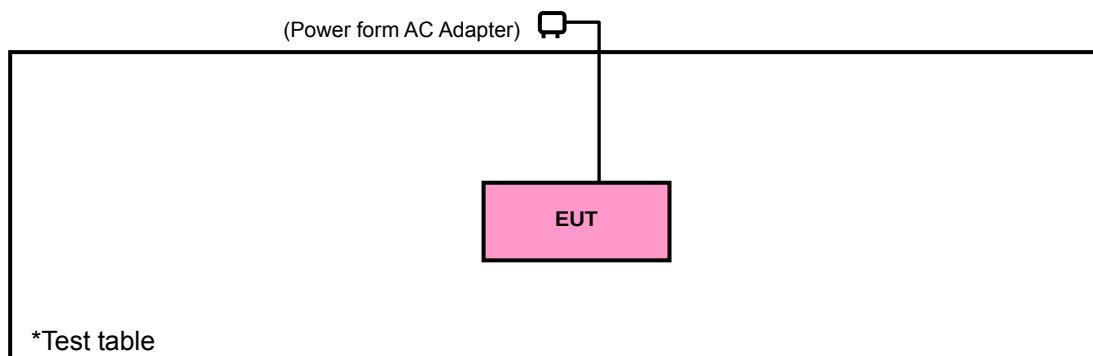
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE:

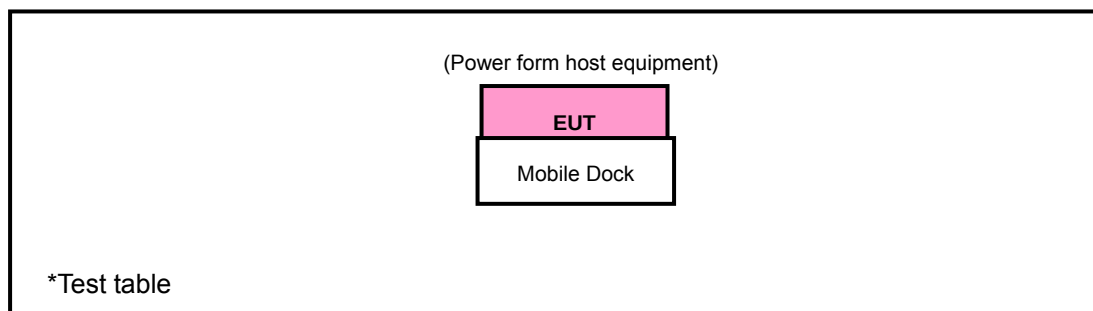
1. All power cords of the above support units are non-shielded (1.8 m).
2. Item 1 was provided by client.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

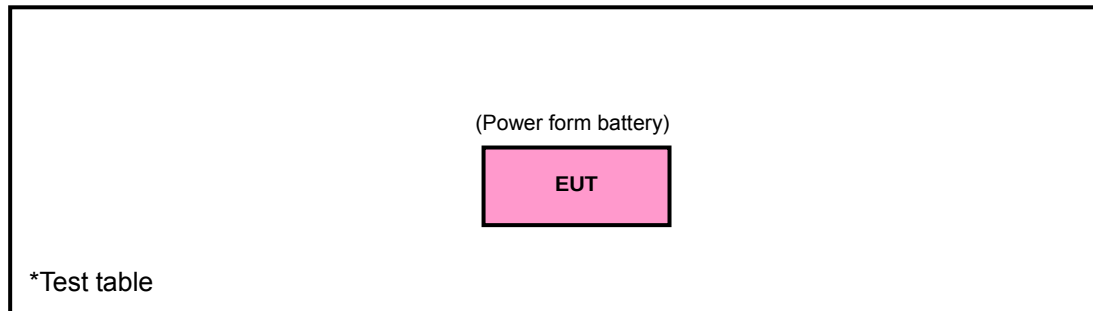
Test Mode A, B, C



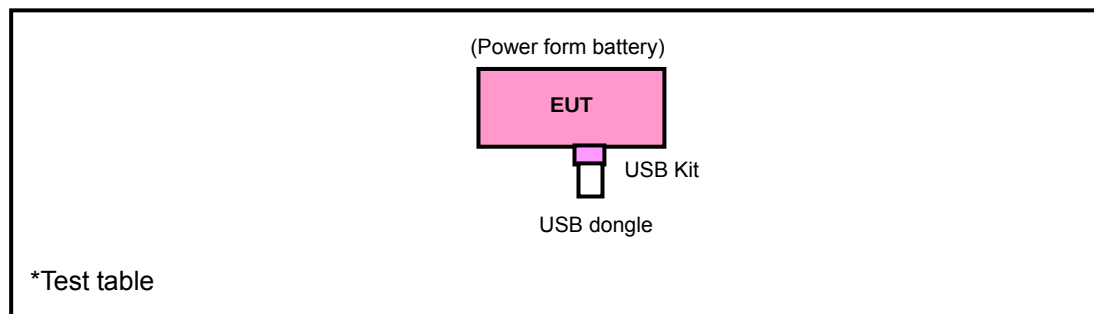
Test Mode D



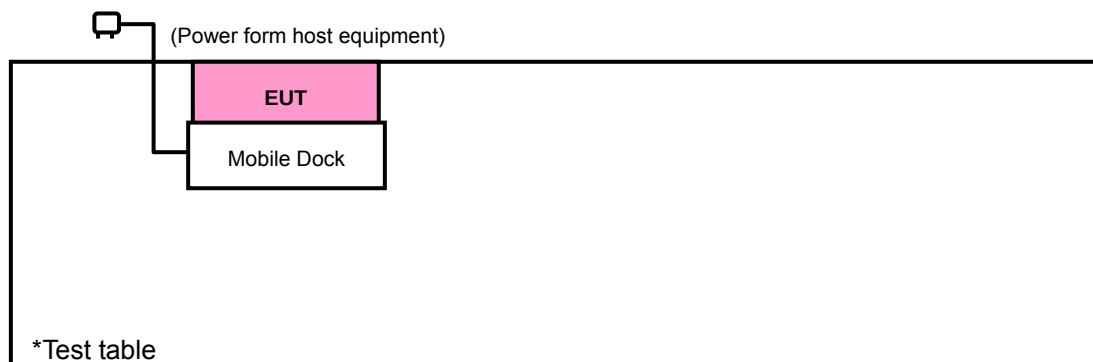
Test Mode E



Test Mode F



Test Mode G, H, I



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 C (15.247)

558074 D01 DTS Meas Guidance v03r01

ANSI C63.10-2009

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

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

4. TEST TYPES AND RESULTS (FOR 2.4GHz BAND)

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. 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. 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 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 28, 2013	Jan. 27, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Mar. 22, 2013	Mar. 21, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-404	Dec. 22, 2012	Dec. 21, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8449B	3008A01911	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10638	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309222/4 248780/4 274392/4	Aug. 22, 2013	Aug. 21, 2014
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 11, 2013	Aug. 10, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn Table Controller EMCO	2090	NA	NA	NA
Turn Table ADT.	TT100.	TT93021704	NA	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA	NA
High Speed Peak Power Meter	ML2495A	0824011	Jul. 29, 2013	Jul. 28, 2014
Power Sensor	MA2411B	0738171	Jul. 29, 2013	Jul. 28, 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 9.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 215374.
6. The IC Site Registration No. is IC 7450F-9.

4.1.3 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:

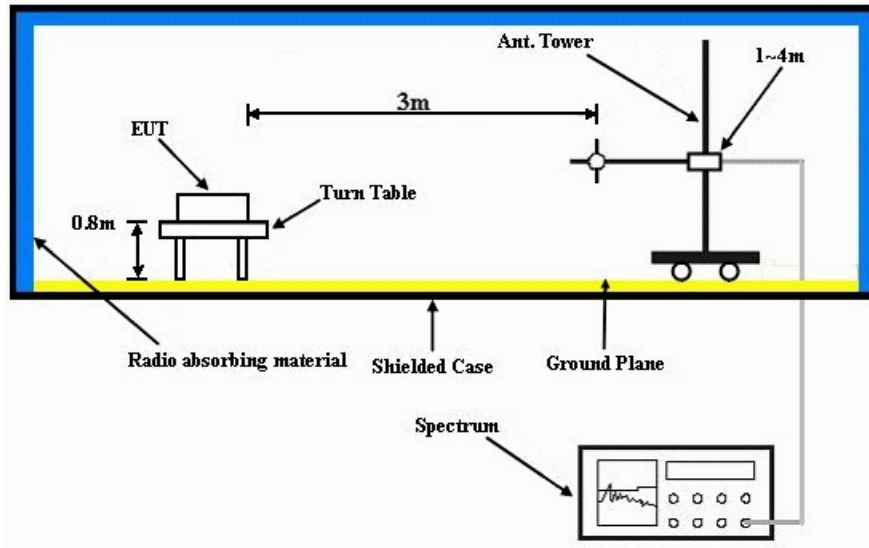
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution 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.

4.1.4 DEVIATION FROM TEST STANDARD

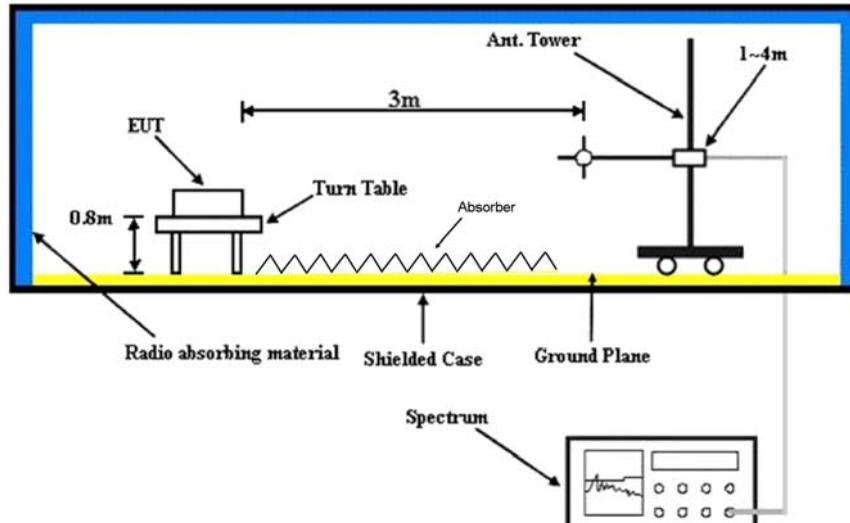
No deviation.

4.1.5 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

4.1.6 EUT OPERATING CONDITIONS

Test Mode A~C, E

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

Test Mode D, G, H, I

- a. Plugged the EUT into the mobile dock and placed them on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enabled the system in full functions.

Test Mode F

- a. Plugged the USB dongle into the EUT via the USB kit and placed them on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enabled the system in full functions.



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4.1.7 TEST RESULTS

ABOVE 1GHz DATA :

802.11b

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

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	2390.00	58.0 PK	74.0	-16.0	2.08 H	92	24.60	33.40
2	2390.00	46.2 AV	54.0	-7.8	2.08 H	92	12.80	33.40
3	*2412.00	102.5 PK			1.38 H	91	69.00	33.50
4	*2412.00	98.8 AV			1.38 H	91	65.30	33.50
5	4824.00	50.5 PK	74.0	-23.5	1.06 H	18	46.90	3.60
6	4824.00	41.1 AV	54.0	-12.9	1.06 H	18	37.50	3.60
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	2390.00	58.4 PK	74.0	-15.6	1.00 V	259	25.00	33.40
2	2390.00	46.9 AV	54.0	-7.1	1.00 V	259	13.50	33.40
3	*2412.00	97.1 PK			1.00 V	279	63.60	33.50
4	*2412.00	93.5 AV			1.00 V	279	60.00	33.50
5	4824.00	47.4 PK	74.0	-26.6	1.00 V	2	43.80	3.60
6	4824.00	35.5 AV	54.0	-18.5	1.00 V	2	31.90	3.60

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	*2437.00	106.0 PK			1.09 H	37	72.50	33.50
2	*2437.00	102.3 AV			1.09 H	37	68.80	33.50
3	4874.00	55.9 PK	74.0	-18.1	1.05 H	18	52.10	3.80
4	4874.00	51.6 AV	54.0	-2.4	1.05 H	18	47.80	3.80
5	7311.00	51.8 PK	74.0	-22.2	1.00 H	207	44.00	7.80
6	7311.00	40.1 AV	54.0	-13.9	1.00 H	207	32.30	7.80
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	*2437.00	97.8 PK			1.00 V	270	64.30	33.50
2	*2437.00	94.4 AV			1.00 V	270	60.90	33.50
3	4874.00	51.6 PK	74.0	-22.4	1.00 V	242	47.80	3.80
4	4874.00	43.8 AV	54.0	-10.2	1.00 V	242	40.00	3.80
5	7311.00	51.1 PK	74.0	-22.9	1.02 V	124	43.30	7.80
6	7311.00	39.0 AV	54.0	-15.0	1.02 V	124	31.20	7.80

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	*2462.00	105.0 PK			1.36 H	38	71.40	33.60
2	*2462.00	101.2 AV			1.36 H	38	67.60	33.60
3	2483.50	59.7 PK	74.0	-14.3	1.36 H	38	26.00	33.70
4	2483.50	48.1 AV	54.0	-5.9	1.36 H	38	14.40	33.70
5	4924.00	56.1 PK	74.0	-17.9	1.04 H	22	52.20	3.90
6	4924.00	51.8 AV	54.0	-2.2	1.04 H	22	47.90	3.90
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	*2462.00	97.1 PK			1.00 V	281	63.50	33.60
2	*2462.00	94.0 AV			1.00 V	281	60.40	33.60
3	2483.50	59.6 PK	74.0	-14.4	1.00 V	281	25.90	33.70
4	2483.50	46.8 AV	54.0	-7.2	1.00 V	281	13.10	33.70
5	4924.00	51.6 PK	74.0	-22.4	1.00 V	307	47.70	3.90
6	4924.00	43.8 AV	54.0	-10.2	1.00 V	307	39.90	3.90

REMARKS:

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



A D T

802.11g

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

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	2390.00	62.8 PK	74.0	-11.2	1.32 H	127	29.40	33.40
2	2390.00	48.8 AV	54.0	-5.2	1.32 H	127	15.40	33.40
3	*2412.00	103.0 PK			1.32 H	127	69.50	33.50
4	*2412.00	91.9 AV			1.32 H	127	58.40	33.50
5	4824.00	50.3 PK	74.0	-23.7	1.00 H	84	46.70	3.60
6	4824.00	37.5 AV	54.0	-16.5	1.00 H	84	33.90	3.60
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	2390.00	58.5 PK	74.0	-15.5	1.00 V	260	25.10	33.40
2	2390.00	46.8 AV	54.0	-7.2	1.00 V	260	13.40	33.40
3	*2412.00	99.1 PK			1.00 V	260	65.60	33.50
4	*2412.00	88.2 AV			1.00 V	260	54.70	33.50
5	4824.00	48.1 PK	74.0	-25.9	1.00 V	262	44.50	3.60
6	4824.00	36.1 AV	54.0	-17.9	1.00 V	262	32.50	3.60

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	*2437.00	109.0 PK			1.35 H	39	75.50	33.50
2	*2437.00	96.9 AV			1.35 H	39	63.40	33.50
3	4874.00	53.1 PK	74.0	-20.9	1.03 H	16	49.30	3.80
4	4874.00	40.2 AV	54.0	-13.8	1.03 H	16	36.40	3.80
5	7311.00	55.0 PK	74.0	-19.0	1.02 H	147	47.20	7.80
6	7311.00	41.0 AV	54.0	-13.0	1.02 H	147	33.20	7.80
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	*2437.00	100.1 PK			1.00 V	280	66.60	33.50
2	*2437.00	89.8 AV			1.00 V	280	56.30	33.50
3	4874.00	49.2 PK	74.0	-24.8	1.00 V	92	45.40	3.80
4	4874.00	36.0 AV	54.0	-18.0	1.00 V	92	32.20	3.80
5	7311.00	51.1 PK	74.0	-22.9	1.02 V	125	43.30	7.80
6	7311.00	39.0 AV	54.0	-15.0	1.02 V	125	31.20	7.80

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	*2462.00	105.1 PK			1.30 H	92	71.50	33.60
2	*2462.00	93.5 AV			1.30 H	92	59.90	33.60
3	2483.50	72.5 PK	74.0	-1.5	1.35 H	38	38.80	33.70
4	2483.50	51.2 AV	54.0	-2.8	1.35 H	38	17.50	33.70
5	4924.00	52.4 PK	74.0	-21.6	1.00 H	18	48.50	3.90
6	4924.00	40.6 AV	54.0	-13.4	1.00 H	18	36.70	3.90
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	*2462.00	99.2 PK			1.00 V	280	65.60	33.60
2	*2462.00	89.0 AV			1.00 V	280	55.40	33.60
3	2483.50	65.3 PK	74.0	-8.7	1.00 V	281	31.60	33.70
4	2483.50	49.8 AV	54.0	-4.2	1.00 V	281	16.10	33.70
5	4924.00	50.4 PK	74.0	-23.6	1.02 V	141	46.50	3.90
6	4924.00	36.4 AV	54.0	-17.6	1.02 V	141	32.50	3.90

REMARKS:

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

802.11n (20MHz)

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

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	2390.00	65.1 PK	74.0	-8.9	2.12 H	92	31.70	33.40
2	2390.00	48.3 AV	54.0	-5.7	2.12 H	92	14.90	33.40
3	*2412.00	102.2 PK			2.12 H	92	68.70	33.50
4	*2412.00	92.5 AV			2.12 H	92	59.00	33.50
5	4824.00	52.9 PK	74.0	-21.1	1.04 H	18	49.30	3.60
6	4824.00	39.6 AV	54.0	-14.4	1.04 H	18	36.00	3.60
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	2390.00	58.6 PK	74.0	-15.4	1.00 V	279	25.20	33.40
2	2390.00	47.0 AV	54.0	-7.0	1.00 V	279	13.60	33.40
3	*2412.00	97.2 PK			1.00 V	279	63.70	33.50
4	*2412.00	87.7 AV			1.00 V	279	54.20	33.50
5	4824.00	49.2 PK	74.0	-24.8	1.00 V	85	45.60	3.60
6	4824.00	35.8 AV	54.0	-18.2	1.00 V	85	32.20	3.60

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	*2437.00	106.0 PK			1.36 H	37	72.50	33.50
2	*2437.00	95.4 AV			1.36 H	37	61.90	33.50
3	4874.00	50.3 PK	74.0	-23.7	1.00 H	18	46.50	3.80
4	4874.00	37.7 AV	54.0	-16.3	1.00 H	18	33.90	3.80
5	7311.00	55.3 PK	74.0	-18.7	1.02 H	324	47.50	7.80
6	7311.00	40.3 AV	54.0	-13.7	1.02 H	324	32.50	7.80
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	*2437.00	98.8 PK			1.00 V	268	65.30	33.50
2	*2437.00	88.1 AV			1.00 V	268	54.60	33.50
3	4874.00	50.5 PK	74.0	-23.5	1.02 V	325	46.70	3.80
4	4874.00	35.0 AV	54.0	-19.0	1.02 V	325	31.20	3.80
5	7311.00	52.0 PK	74.0	-22.0	1.12 V	241	44.20	7.80
6	7311.00	38.4 AV	54.0	-15.6	1.12 V	241	30.60	7.80

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Ted Chang

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	*2462.00	105.3 PK			1.34 H	38	71.70	33.60
2	*2462.00	94.7 AV			1.34 H	38	61.10	33.60
3	2483.50	68.0 PK	74.0	-6.0	1.34 H	38	34.30	33.70
4	2483.50	50.0 AV	54.0	-4.0	1.34 H	38	16.30	33.70
5	4924.00	52.8 PK	74.0	-21.2	1.02 H	15	48.90	3.90
6	4924.00	39.5 AV	54.0	-14.5	1.02 H	15	35.60	3.90
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	*2462.00	97.1 PK			1.00 V	281	63.50	33.60
2	*2462.00	87.0 AV			1.00 V	281	53.40	33.60
3	2483.50	61.0 PK	74.0	-13.0	1.00 V	281	27.30	33.70
4	2483.50	47.4 AV	54.0	-6.6	1.00 V	281	13.70	33.70
5	4924.00	47.4 PK	74.0	-26.6	1.02 V	149	43.50	3.90
6	4924.00	35.1 AV	54.0	-18.9	1.02 V	149	31.20	3.90

REMARKS:

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



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BELOW 1GHz WORST-CASE DATA : 802.11g

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	35.2 QP	40.0	-4.8	1.00 H	112	50.80	-15.60
2	119.24	27.8 QP	43.5	-15.7	1.99 H	96	44.10	-16.30
3	813.76	28.5 QP	46.0	-17.5	1.00 H	347	30.80	-2.30
4	866.14	29.3 QP	46.0	-16.7	1.99 H	270	30.60	-1.30
5	899.12	30.2 QP	46.0	-15.8	1.00 H	31	31.00	-0.80
6	922.40	30.1 QP	46.0	-15.9	1.00 H	274	30.40	-0.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	37.5 QP	40.0	-2.5	1.01 V	12	54.00	-16.50
2	835.10	28.7 QP	46.0	-17.3	2.00 V	73	30.70	-2.00
3	854.50	29.5 QP	46.0	-16.5	1.01 V	62	31.00	-1.50
4	903.00	30.2 QP	46.0	-15.8	1.01 V	61	31.00	-0.80
5	922.40	30.3 QP	46.0	-15.7	2.00 V	165	30.60	-0.30
6	943.74	31.1 QP	46.0	-14.9	1.01 V	305	31.00	0.10

REMARKS:

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



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	34.3 QP	40.0	-5.7	1.00 H	99	49.90	-15.60
2	788.54	28.4 QP	46.0	-17.6	1.00 H	217	31.30	-2.90
3	840.92	28.9 QP	46.0	-17.1	1.00 H	273	30.70	-1.80
4	864.20	29.5 QP	46.0	-16.5	1.50 H	355	30.80	-1.30
5	901.06	29.8 QP	46.0	-16.2	1.00 H	205	30.60	-0.80
6	935.98	30.6 QP	46.0	-15.4	1.00 H	91	30.60	0.00
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	30.00	36.2 QP	40.0	-3.8	1.01 V	123	51.80	-15.60
2	806.00	28.7 QP	46.0	-17.3	1.01 V	298	31.30	-2.60
3	838.98	29.5 QP	46.0	-16.5	1.50 V	206	31.30	-1.80
4	885.54	29.5 QP	46.0	-16.5	1.01 V	295	30.60	-1.10
5	934.04	30.5 QP	46.0	-15.5	1.50 V	14	30.60	-0.10
6	941.80	31.2 QP	46.0	-14.8	1.01 V	15	31.30	-0.10

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	35.8 QP	40.0	-4.2	1.00 H	10	51.40	-15.60
2	101.78	28.5 QP	43.5	-15.0	1.99 H	104	47.10	-18.60
3	142.52	26.0 QP	43.5	-17.5	1.99 H	114	40.20	-14.20
4	736.16	28.2 QP	46.0	-17.8	1.00 H	276	32.20	-4.00
5	860.32	29.0 QP	46.0	-17.0	1.00 H	25	30.40	-1.40
6	920.46	30.3 QP	46.0	-15.7	1.00 H	252	30.60	-0.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	36.9 QP	40.0	-3.1	1.01 V	187	52.50	-15.60
2	62.98	26.8 QP	40.0	-13.2	1.01 V	12	41.50	-14.70
3	778.84	28.0 QP	46.0	-18.0	1.01 V	239	30.90	-2.90
4	792.42	28.1 QP	46.0	-17.9	1.01 V	12	30.90	-2.80
5	897.18	29.5 QP	46.0	-16.5	2.00 V	32	30.30	-0.80
6	945.68	31.3 QP	46.0	-14.7	1.01 V	285	31.20	0.10

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	D		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	34.2 QP	40.0	-5.8	1.50 H	216	49.80	-15.60
2	743.92	27.2 QP	46.0	-18.8	1.50 H	352	30.90	-3.70
3	838.98	29.3 QP	46.0	-16.7	1.00 H	32	31.10	-1.80
4	854.50	29.5 QP	46.0	-16.5	1.00 H	7	31.00	-1.50
5	883.60	29.6 QP	46.0	-16.4	1.00 H	171	30.70	-1.10
6	918.52	30.5 QP	46.0	-15.5	1.50 H	197	30.80	-0.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	36.5 QP	40.0	-3.5	1.00 V	39	53.00	-16.50
2	724.52	27.1 QP	46.0	-18.9	1.00 V	348	31.30	-4.20
3	759.44	28.2 QP	46.0	-17.8	1.99 V	15	31.40	-3.20
4	862.26	30.1 QP	46.0	-15.9	1.49 V	178	31.50	-1.40
5	904.94	30.5 QP	46.0	-15.5	1.99 V	207	31.20	-0.70
6	926.28	30.3 QP	46.0	-15.7	1.00 V	258	30.50	-0.20

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	E		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	740.04	27.2 QP	46.0	-18.8	1.01 H	43	31.10	-3.90
2	840.92	28.9 QP	46.0	-17.1	1.50 H	147	30.70	-1.80
3	860.32	28.9 QP	46.0	-17.1	1.50 H	321	30.30	-1.40
4	895.24	30.4 QP	46.0	-15.6	1.50 H	8	31.30	-0.90
5	930.16	30.4 QP	46.0	-15.6	1.50 H	0	30.50	-0.10
6	947.62	30.9 QP	46.0	-15.1	1.01 H	312	30.80	0.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	757.50	27.5 QP	46.0	-18.5	1.50 V	138	30.90	-3.40
2	804.06	28.3 QP	46.0	-17.7	1.50 V	18	31.00	-2.70
3	825.40	28.7 QP	46.0	-17.3	1.50 V	262	30.90	-2.20
4	904.94	29.8 QP	46.0	-16.2	1.00 V	17	30.50	-0.70
5	932.10	30.3 QP	46.0	-15.7	1.00 V	218	30.40	-0.10
6	943.74	31.0 QP	46.0	-15.0	1.50 V	329	30.90	0.10

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	F		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	778.84	28.2 QP	46.0	-17.8	1.00 H	311	31.10	-2.90
2	807.94	28.6 QP	46.0	-17.4	1.00 H	4	31.10	-2.50
3	840.92	29.1 QP	46.0	-16.9	1.00 H	253	30.90	-1.80
4	868.08	29.2 QP	46.0	-16.8	1.00 H	184	30.50	-1.30
5	926.28	30.4 QP	46.0	-15.6	1.49 H	8	30.60	-0.20
6	955.38	32.4 QP	46.0	-13.6	1.49 H	8	32.00	0.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	778.84	28.3 QP	46.0	-17.7	1.50 V	328	31.20	-2.90
2	819.58	29.0 QP	46.0	-17.0	1.50 V	57	31.30	-2.30
3	862.26	28.9 QP	46.0	-17.1	1.01 V	155	30.30	-1.40
4	897.18	29.7 QP	46.0	-16.3	1.50 V	3	30.50	-0.80
5	916.58	30.2 QP	46.0	-15.8	1.01 V	39	30.60	-0.40
6	955.38	30.9 QP	46.0	-15.1	1.01 V	354	30.50	0.40

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui
TEST MODE	G		

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	117.30	28.5 QP	43.5	-15.0	1.51 H	245	44.80	-16.30
2	778.84	28.0 QP	46.0	-18.0	1.51 H	246	30.90	-2.90
3	837.04	29.6 QP	46.0	-16.4	2.00 H	95	31.60	-2.00
4	899.12	29.9 QP	46.0	-16.1	2.00 H	314	30.70	-0.80
5	937.92	30.6 QP	46.0	-15.4	2.00 H	213	30.60	0.00
6	947.62	30.8 QP	46.0	-15.2	1.51 H	61	30.70	0.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	117.30	27.5 QP	43.5	-16.0	1.00 V	9	43.80	-16.30
2	769.14	28.4 QP	46.0	-17.6	1.50 V	314	31.40	-3.00
3	842.86	28.4 QP	46.0	-17.6	1.50 V	81	30.20	-1.80
4	868.08	29.5 QP	46.0	-16.5	1.50 V	15	30.80	-1.30
5	885.54	30.3 QP	46.0	-15.7	1.00 V	67	31.40	-1.10
6	928.22	30.8 QP	46.0	-15.2	1.99 V	256	31.00	-0.20

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui
TEST MODE	H		

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	111.48	28.4 QP	43.5	-15.1	1.49 H	240	45.50	-17.10
2	761.38	28.3 QP	46.0	-17.7	1.99 H	84	31.40	-3.10
3	842.86	29.0 QP	46.0	-17.0	1.99 H	101	30.80	-1.80
4	852.56	29.6 QP	46.0	-16.4	1.00 H	10	31.30	-1.70
5	903.00	30.6 QP	46.0	-15.4	1.49 H	200	31.40	-0.80
6	928.22	30.5 QP	46.0	-15.5	1.99 H	162	30.70	-0.20
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	99.84	25.6 QP	43.5	-17.9	1.01 V	282	44.40	-18.80
2	767.20	29.0 QP	46.0	-17.0	1.51 V	316	32.10	-3.10
3	862.26	29.8 QP	46.0	-16.2	2.00 V	338	31.20	-1.40
4	901.06	30.5 QP	46.0	-15.5	2.00 V	321	31.30	-0.80
5	926.28	30.1 QP	46.0	-15.9	1.51 V	12	30.30	-0.20
6	943.74	30.5 QP	46.0	-15.5	1.01 V	15	30.40	0.10

REMARKS:

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



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui
TEST MODE	I		

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	92.08	26.8 QP	43.5	-16.7	1.99 H	234	46.60	-19.80
2	119.24	28.1 QP	43.5	-15.4	1.49 H	79	44.40	-16.30
3	829.28	29.8 QP	46.0	-16.2	1.49 H	15	31.80	-2.00
4	875.84	29.5 QP	46.0	-16.5	1.49 H	320	30.70	-1.20
5	906.88	30.6 QP	46.0	-15.4	1.49 H	15	31.20	-0.60
6	920.46	30.7 QP	46.0	-15.3	1.00 H	18	31.00	-0.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	121.18	26.6 QP	43.5	-16.9	1.01 V	14	42.90	-16.30
2	769.14	29.0 QP	46.0	-17.0	2.00 V	244	32.00	-3.00
3	829.28	29.1 QP	46.0	-16.9	1.01 V	14	31.10	-2.00
4	873.90	29.8 QP	46.0	-16.2	1.01 V	321	31.00	-1.20
5	908.82	30.5 QP	46.0	-15.5	1.01 V	20	31.00	-0.50
6	951.50	30.9 QP	46.0	-15.1	1.51 V	287	30.70	0.20

REMARKS:

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

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 09, 2012	Nov. 08, 2013
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 17, 2013	Jul. 16, 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

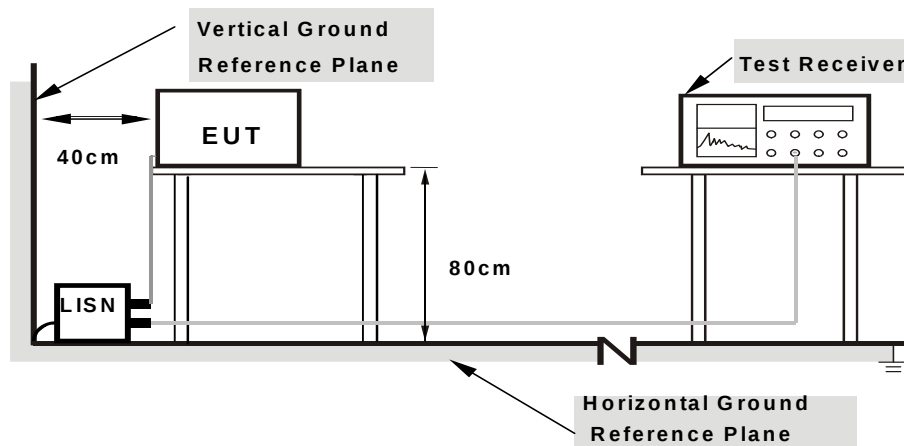
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

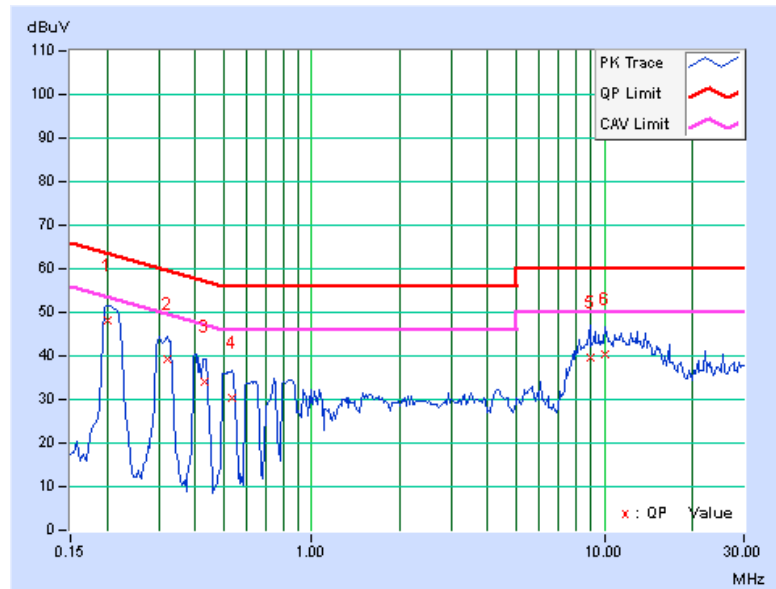
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : 802.11g

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20206	0.20	48.09	35.21	48.29	35.41	63.53	53.53	-15.24	-18.12
2	0.32188	0.21	39.20	25.42	39.41	25.63	59.66	49.66	-20.25	-24.03
3	0.43211	0.22	33.88	17.94	34.10	18.16	57.21	47.21	-23.11	-29.05
4	0.53672	0.24	30.11	14.32	30.35	14.56	56.00	46.00	-25.65	-31.44
5	8.96094	0.47	39.26	28.84	39.73	29.31	60.00	50.00	-20.27	-20.69
6	10.05469	0.49	39.85	29.55	40.34	30.04	60.00	50.00	-19.66	-19.96

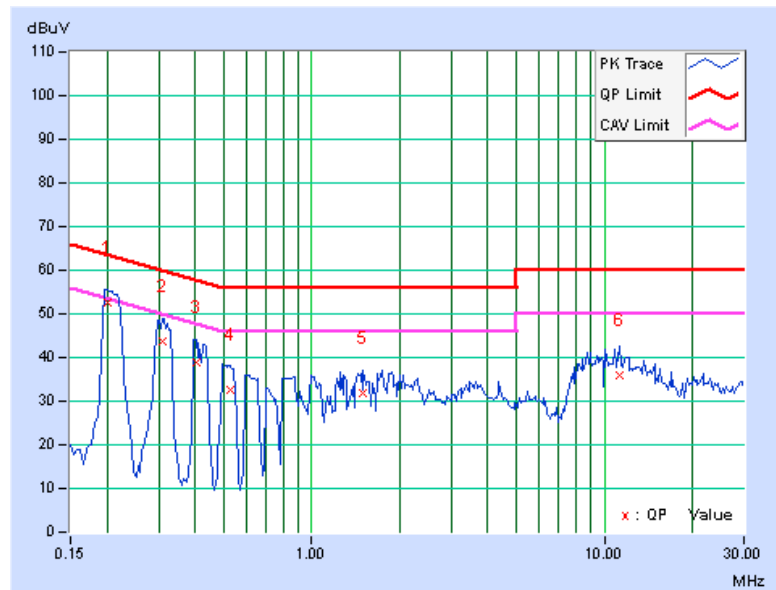
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20078	0.19	52.27	38.24	52.46	38.43	63.58	53.58	-11.12	-15.15
2	0.31016	0.23	43.49	29.85	43.72	30.08	59.97	49.97	-16.24	-19.88
3	0.40391	0.27	38.62	24.47	38.89	24.74	57.77	47.77	-18.88	-23.03
4	0.52500	0.27	32.19	18.00	32.46	18.27	56.00	46.00	-23.54	-27.73
5	1.50391	0.29	31.52	15.25	31.81	15.54	56.00	46.00	-24.19	-30.46
6	11.25000	0.60	35.24	27.84	35.84	28.44	60.00	50.00	-24.16	-21.56

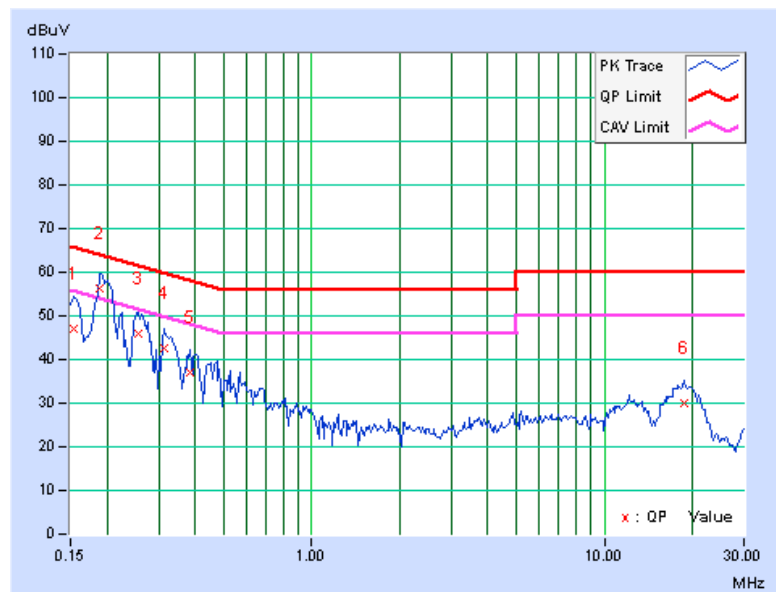
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.19	46.92	20.61	47.11	20.80	65.79	55.79	-18.68	-34.99
2	0.18906	0.20	56.24	41.88	56.44	42.08	64.08	54.08	-7.64	-12.00
3	0.25547	0.21	45.80	32.98	46.01	33.19	61.58	51.58	-15.57	-18.39
4	0.31406	0.21	42.37	28.67	42.58	28.88	59.86	49.86	-17.28	-20.98
5	0.38438	0.22	36.74	22.24	36.96	22.46	58.18	48.18	-21.23	-25.73
6	18.81641	0.70	29.29	24.37	29.99	25.07	60.00	50.00	-30.01	-24.93

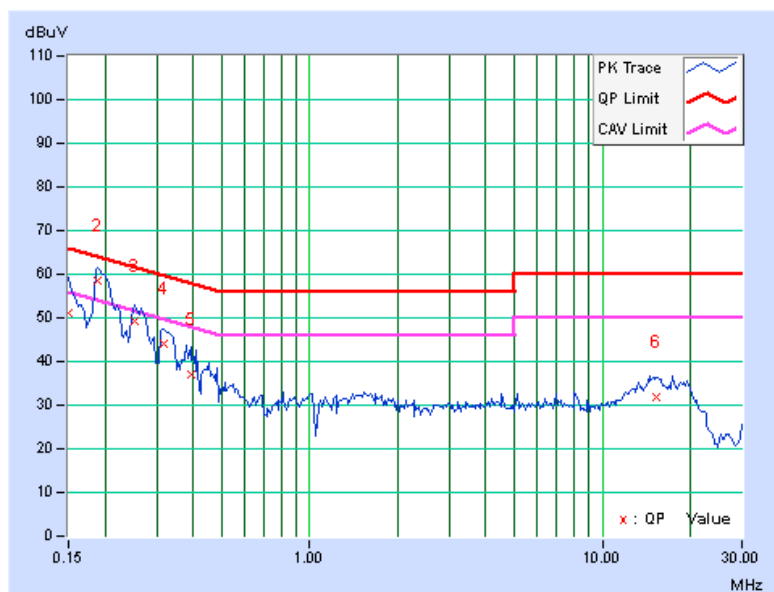
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.19	50.98	24.52	51.17	24.71	66.00	56.00	-14.83	-31.29
2	0.18906	0.19	58.27	43.69	58.46	43.88	64.08	54.08	-5.62	-10.20
3	0.25156	0.21	49.17	33.87	49.38	34.08	61.71	51.71	-12.32	-17.62
4	0.31797	0.24	43.93	30.87	44.17	31.11	59.76	49.76	-15.59	-18.65
5	0.39219	0.27	36.69	21.01	36.96	21.28	58.02	48.02	-21.06	-26.74
6	15.38672	0.70	31.05	25.72	31.75	26.42	60.00	50.00	-28.25	-23.58

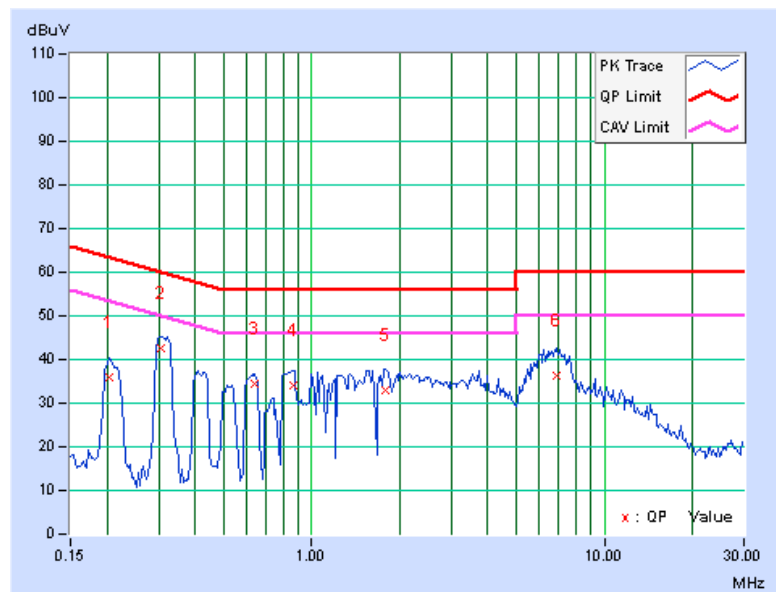
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	C		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20469	0.20	35.75	25.58	35.95	25.78	63.42	53.42	-27.47	-27.64
2	0.30625	0.21	42.23	28.37	42.44	28.58	60.07	50.07	-17.63	-21.49
3	0.63828	0.25	34.37	20.14	34.62	20.39	56.00	46.00	-21.38	-25.61
4	0.86094	0.27	33.77	16.68	34.04	16.95	56.00	46.00	-21.96	-29.05
5	1.79297	0.31	32.50	16.74	32.81	17.05	56.00	46.00	-23.19	-28.95
6	6.84375	0.44	35.74	21.62	36.18	22.06	60.00	50.00	-23.82	-27.94

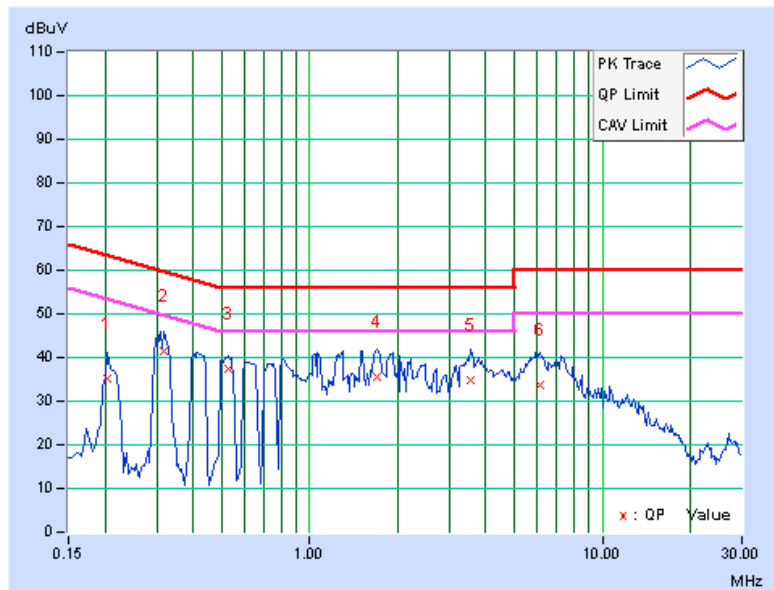
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	C		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20469	0.19	35.02	24.98	35.21	25.17	63.42	53.42	-28.21	-28.25
2	0.31797	0.24	41.32	29.41	41.56	29.65	59.76	49.76	-18.20	-20.11
3	0.52891	0.27	37.32	23.09	37.59	23.36	56.00	46.00	-18.41	-22.64
4	1.70703	0.30	35.26	18.76	35.56	19.06	56.00	46.00	-20.44	-26.94
5	3.56641	0.42	34.43	18.92	34.85	19.34	56.00	46.00	-21.15	-26.66
6	6.13281	0.49	33.21	18.21	33.70	18.70	60.00	50.00	-26.30	-31.30

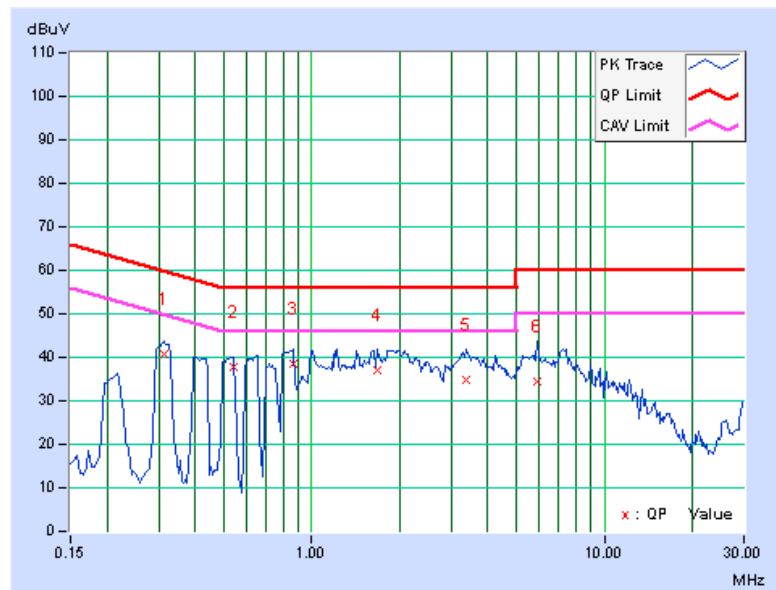
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor +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



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	G		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.31406	0.21	40.46	29.75	40.67	29.96	59.86	49.86	-19.19	-19.90
2	0.54453	0.24	37.58	18.60	37.82	18.84	56.00	46.00	-18.18	-27.16
3	0.86875	0.27	38.23	20.33	38.50	20.60	56.00	46.00	-17.50	-25.40
4	1.67969	0.31	36.90	18.76	37.21	19.07	56.00	46.00	-18.79	-26.93
5	3.37500	0.37	34.61	20.82	34.98	21.19	56.00	46.00	-21.02	-24.81
6	5.88281	0.43	34.08	19.71	34.51	20.14	60.00	50.00	-25.49	-29.86

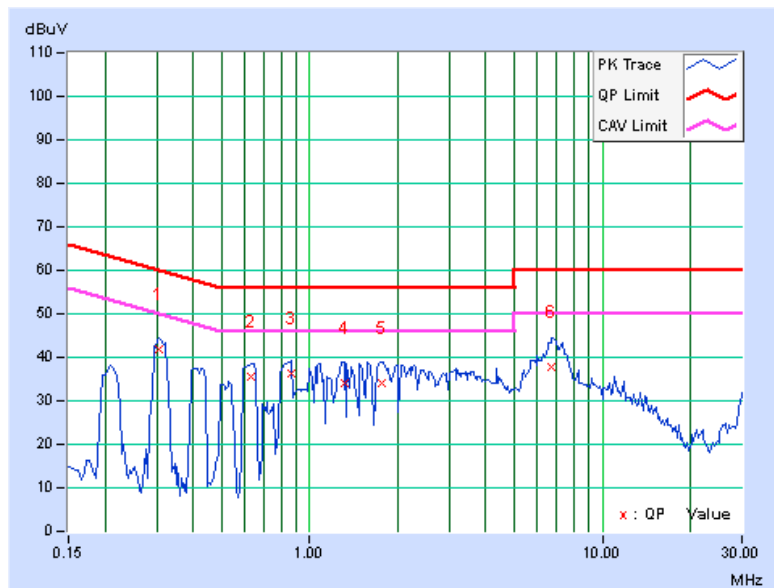
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	G		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.30625	0.23	41.60	29.07	41.83	29.30	60.07	50.07	-18.24	-20.77
2	0.63438	0.27	35.20	20.47	35.47	20.74	56.00	46.00	-20.53	-25.26
3	0.86875	0.26	36.21	16.89	36.47	17.15	56.00	46.00	-19.53	-28.85
4	1.31250	0.28	33.79	14.95	34.07	15.23	56.00	46.00	-21.93	-30.77
5	1.76953	0.31	33.68	14.24	33.99	14.55	56.00	46.00	-22.01	-31.45
6	6.72656	0.50	37.43	23.27	37.93	23.77	60.00	50.00	-22.07	-26.23

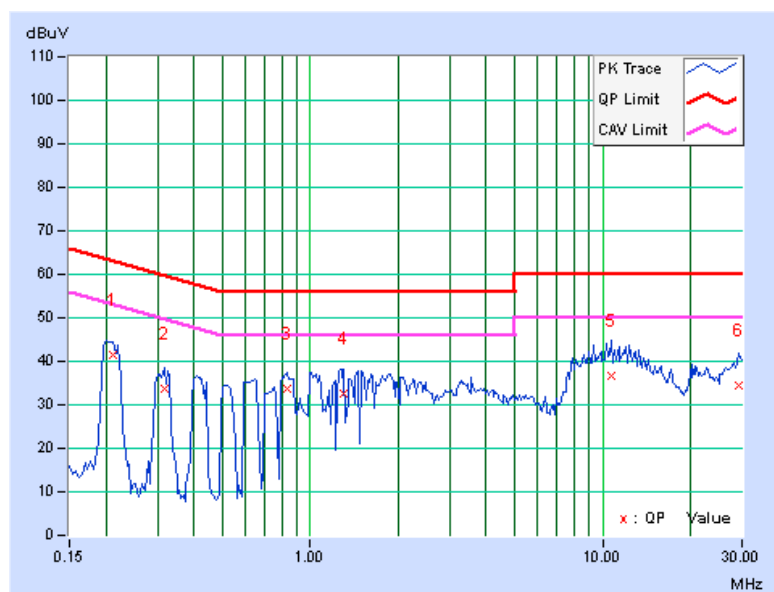
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	H		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21250	0.20	41.10	28.27	41.30	28.47	63.11	53.11	-21.81	-24.64
2	0.31797	0.21	33.54	23.07	33.75	23.28	59.76	49.76	-26.01	-26.48
3	0.83359	0.27	33.31	17.33	33.58	17.60	56.00	46.00	-22.42	-28.40
4	1.30078	0.30	32.45	16.89	32.75	17.19	56.00	46.00	-23.25	-28.81
5	10.70703	0.51	36.27	29.06	36.78	29.57	60.00	50.00	-23.22	-20.43
6	29.20703	0.61	33.87	23.43	34.48	24.04	60.00	50.00	-25.52	-25.96

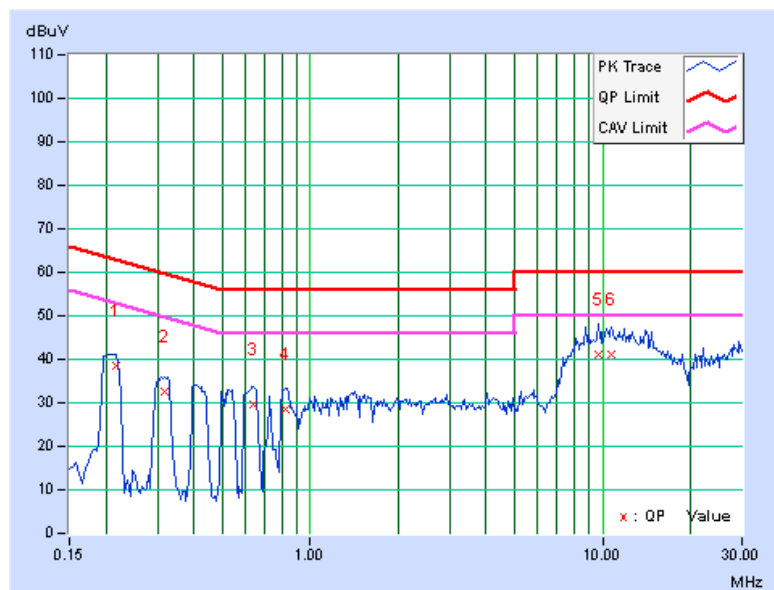
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	H		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21641	0.20	38.25	25.52	38.45	25.72	62.96	52.96	-24.51	-27.24
2	0.31797	0.24	32.21	20.47	32.45	20.71	59.76	49.76	-27.31	-29.05
3	0.64219	0.27	29.44	14.98	29.71	15.25	56.00	46.00	-26.29	-30.75
4	0.82188	0.26	28.41	13.30	28.67	13.56	56.00	46.00	-27.33	-32.44
5	9.72656	0.56	40.68	30.31	41.24	30.87	60.00	50.00	-18.76	-19.13
6	10.71484	0.59	40.39	32.04	40.98	32.63	60.00	50.00	-19.02	-17.37

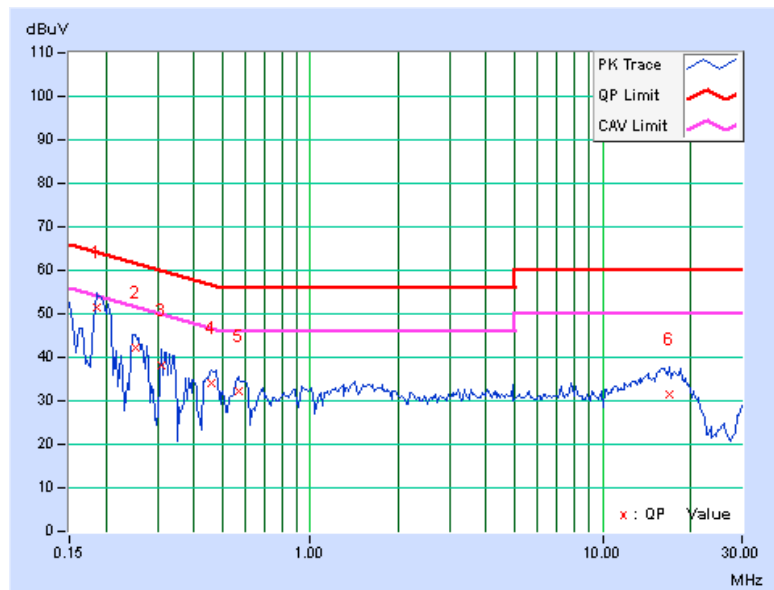
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	I		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.20	51.34	34.55	51.54	34.75	64.25	54.25	-12.72	-19.51
2	0.25156	0.21	41.83	29.80	42.04	30.01	61.71	51.71	-19.67	-21.70
3	0.31016	0.21	38.11	23.65	38.32	23.86	59.97	49.97	-21.65	-26.11
4	0.45859	0.23	34.02	20.94	34.25	21.17	56.72	46.72	-22.47	-25.55
5	0.56797	0.24	32.11	18.57	32.35	18.81	56.00	46.00	-23.65	-27.19
6	16.88281	0.66	30.78	26.30	31.44	26.96	60.00	50.00	-28.56	-23.04

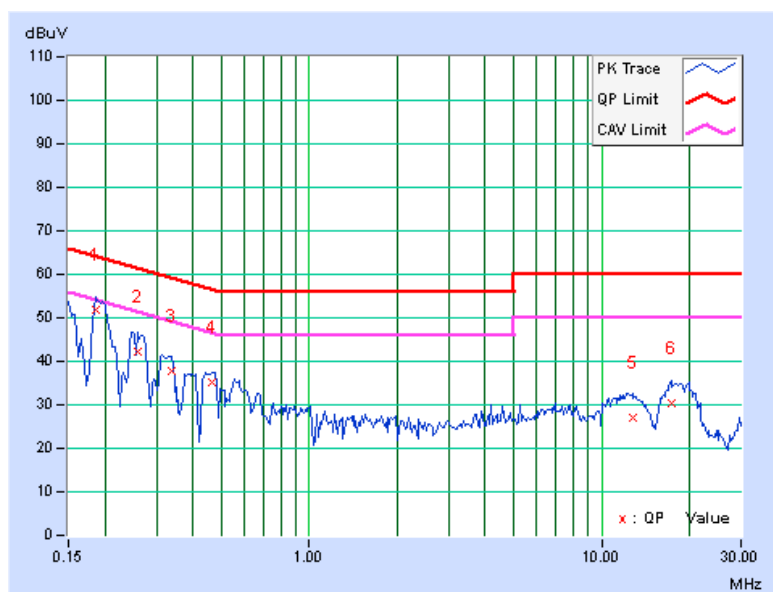
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	I		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.19	51.56	34.75	51.75	34.94	64.25	54.25	-12.50	-19.31
2	0.25938	0.21	42.19	29.67	42.40	29.88	61.45	51.45	-19.05	-21.57
3	0.33750	0.24	37.37	25.54	37.61	25.78	59.26	49.26	-21.65	-23.48
4	0.46250	0.27	34.79	22.08	35.06	22.35	56.65	46.65	-21.59	-24.30
5	12.75781	0.64	26.58	21.14	27.22	21.78	60.00	50.00	-32.78	-28.22
6	17.42188	0.76	29.73	24.87	30.49	25.63	60.00	50.00	-29.51	-24.37

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

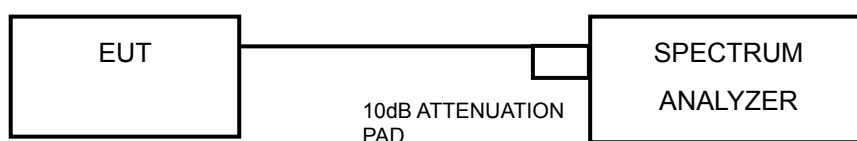


4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURE

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

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

4.3.7 TEST RESULTS

802.11b

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	7.09	0.5	PASS
6	2437	7.08	0.5	PASS
11	2462	7.09	0.5	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.39	0.5	PASS
6	2437	16.39	0.5	PASS
11	2462	16.42	0.5	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.18	0.5	PASS
6	2437	17.19	0.5	PASS
11	2462	17.16	0.5	PASS

4.4 CONDUCTED OUTPUT POWER

4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output v01r02 Method of conducted output power measurement on IEEE 802.11 devices,

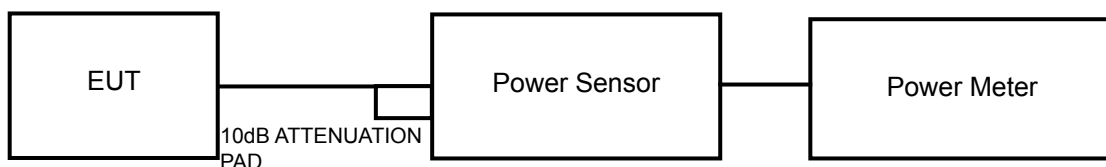
Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20-MHz channel widths with $NANT \geq 5$.

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

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

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



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4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

4.4.7 TEST RESULTS

FOR PEAK POWER

802.11b

CHANNEL	FREQUENCY (MHz)	PEAK POWER (mW)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	71.121	18.52	30	PASS
6	2437	74.989	18.75	30	PASS
11	2462	69.984	18.45	30	PASS

802.11g

CHANNEL	FREQUENCY (MHz)	PEAK POWER (mW)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	87.297	19.41	30	PASS
6	2437	90.365	19.56	30	PASS
11	2462	85.704	19.33	30	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PEAK POWER (mW)	PEAK POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	88.308	19.46	30	PASS
6	2437	91.833	19.63	30	PASS
11	2462	84.528	19.27	30	PASS



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FOR AVERAGE POWER

802.11b

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)
1	2412	13.366	11.26
6	2437	14.322	11.56
11	2462	12.677	11.03

802.11g

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)
1	2412	13.213	11.21
6	2437	14.256	11.54
11	2462	13.062	11.16

802.11n (20MHz)

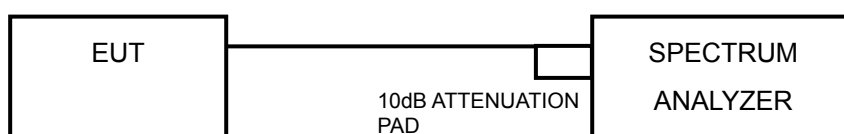
CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)
1	2412	13.709	11.37
6	2437	14.223	11.53
11	2462	12.912	11.11

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- Set the RBW = 3 kHz, VBW = 10 kHz, Detector = peak.
- Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6



4.5.7 TEST RESULTS

802.11b

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-14.13	8	PASS
6	2437	-13.55	8	PASS
11	2462	-13.62	8	PASS

802.11g

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.70	8	PASS
6	2437	-13.76	8	PASS
11	2462	-13.29	8	PASS

802.11n (20MHz)

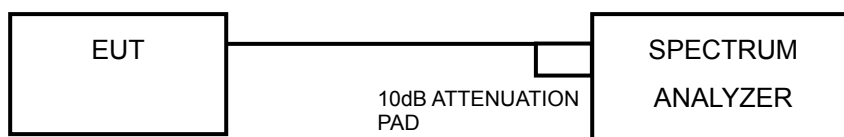
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-12.57	8	PASS
6	2437	-13.98	8	PASS
11	2462	-14.64	8	PASS

4.6 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.6.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

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

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 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.

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.7 TEST RESULTS

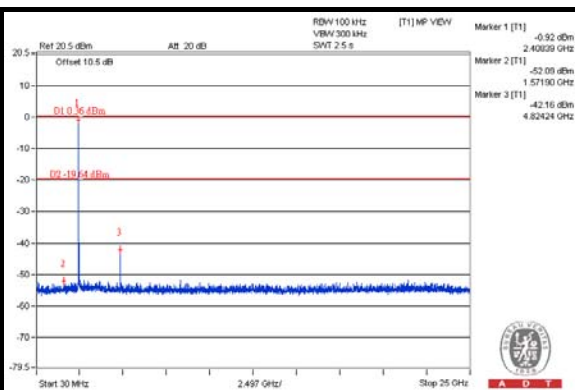
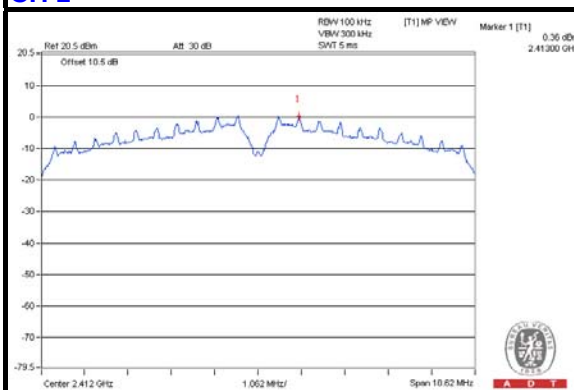
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



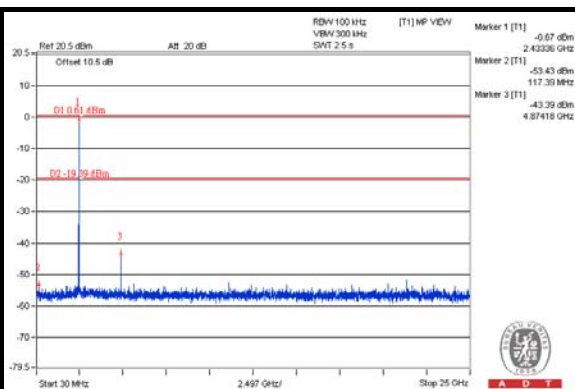
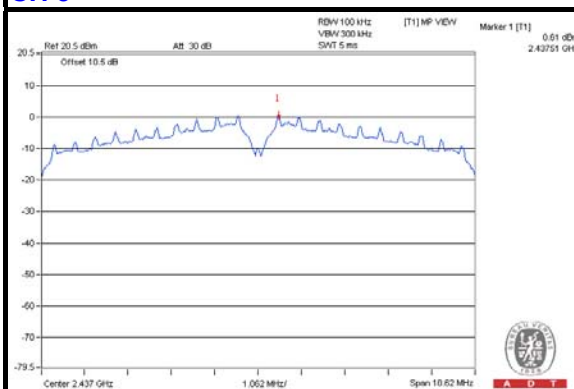
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802.11b

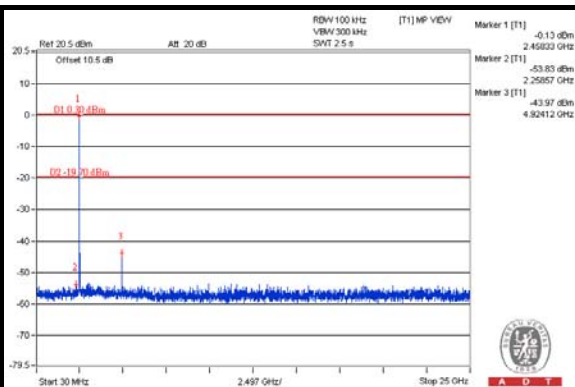
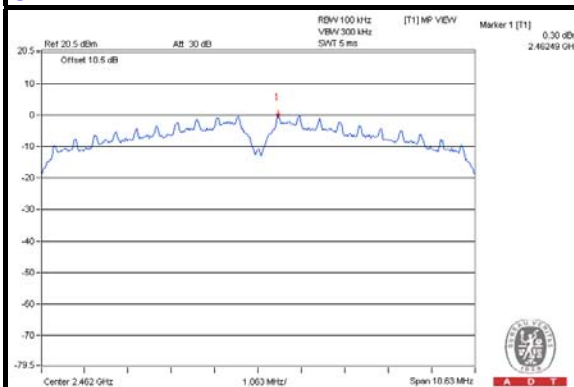
CH 1



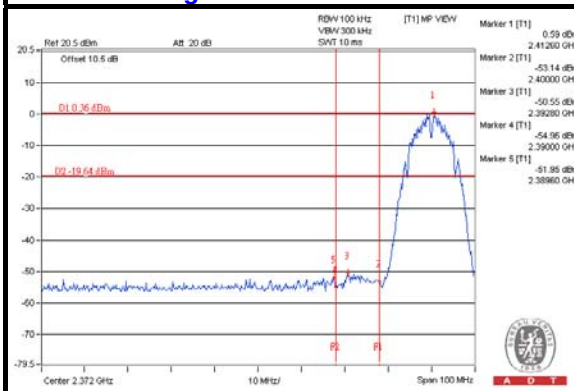
CH 6



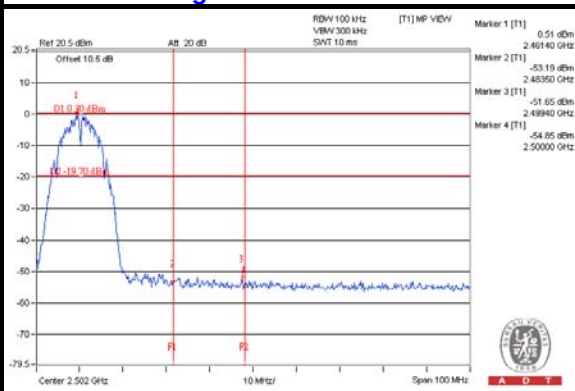
CH 11



CH 1 Band edge



CH 11 Band edge

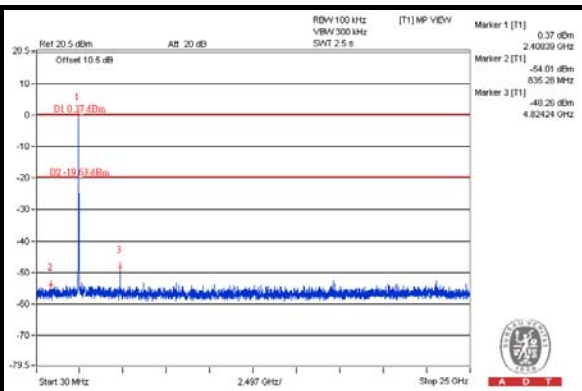
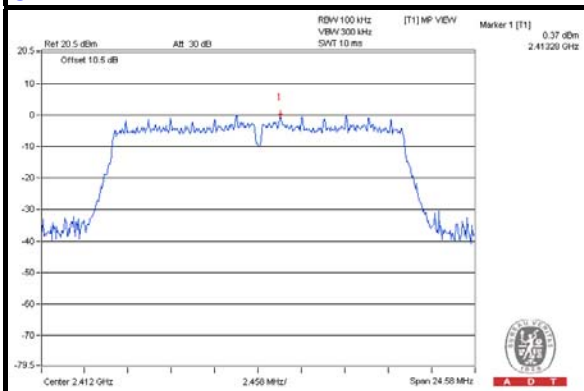




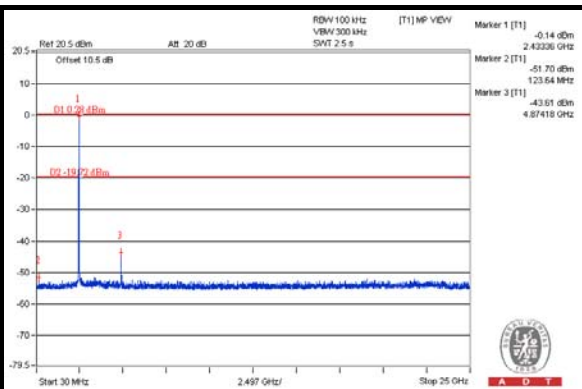
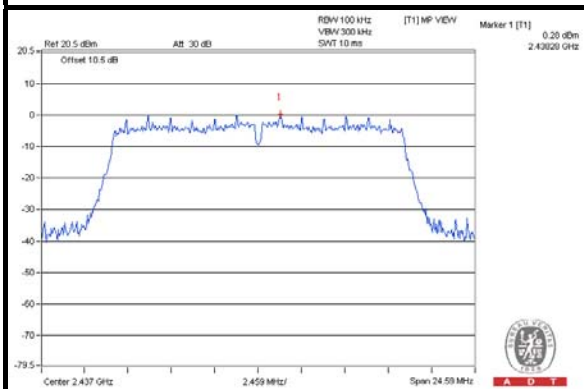
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802.11g

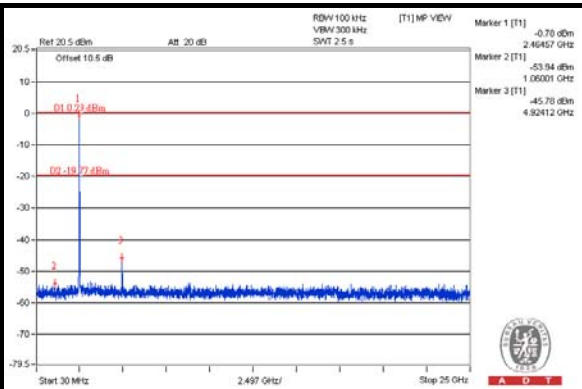
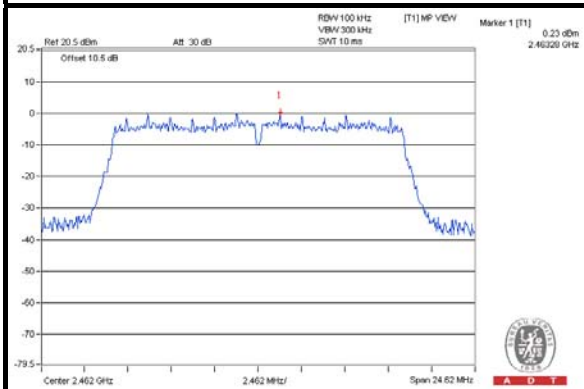
CH 1



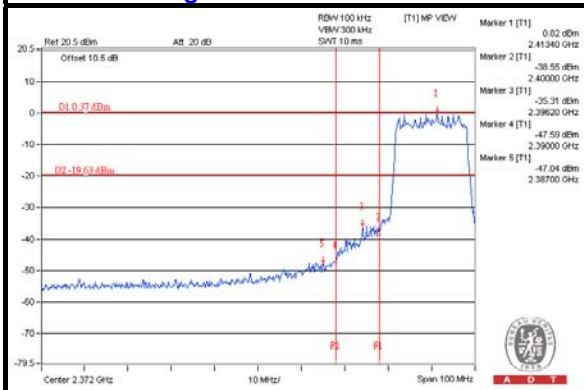
CH 6



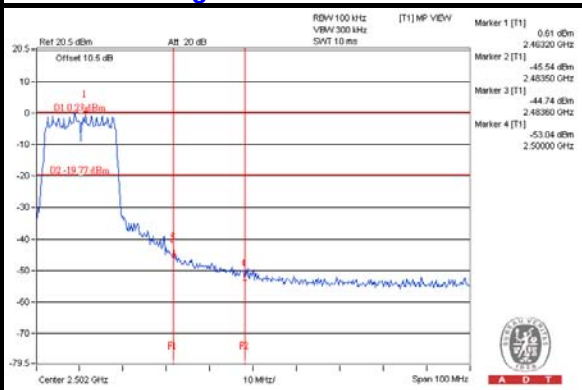
CH 11



CH 1 Band edge



CH 11 Band edge

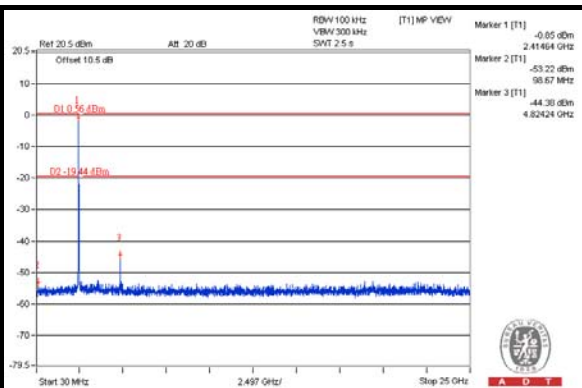
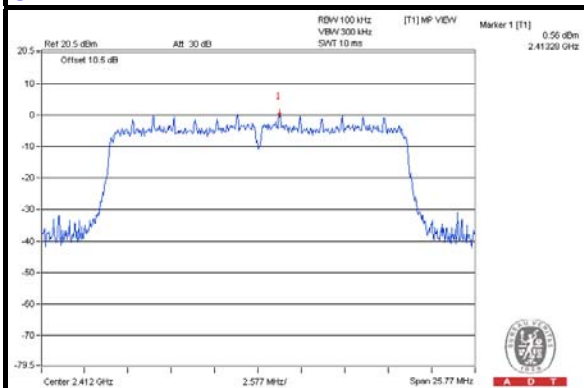




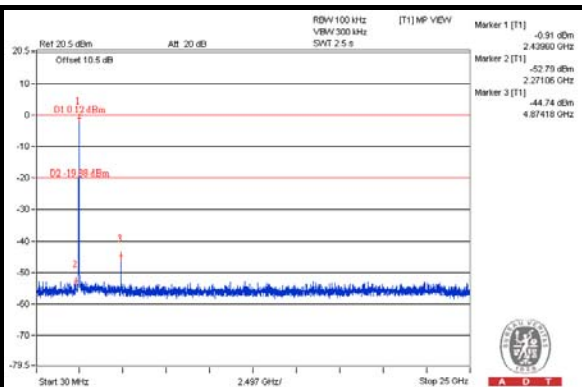
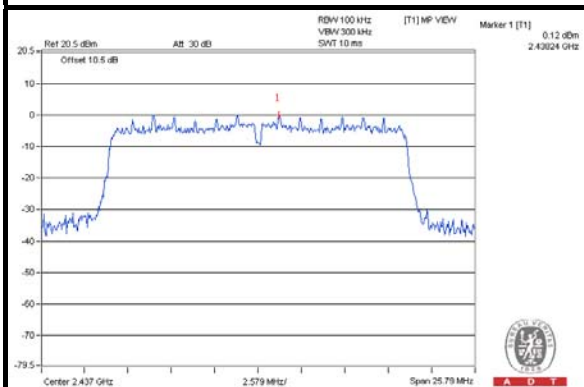
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802.11n (20MHz)

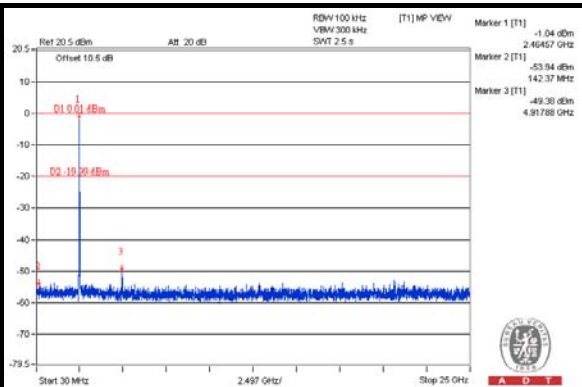
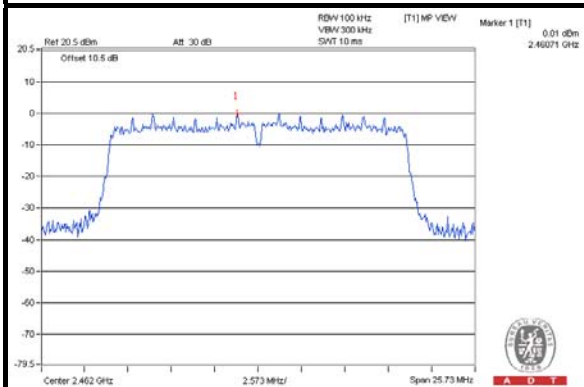
CH 1



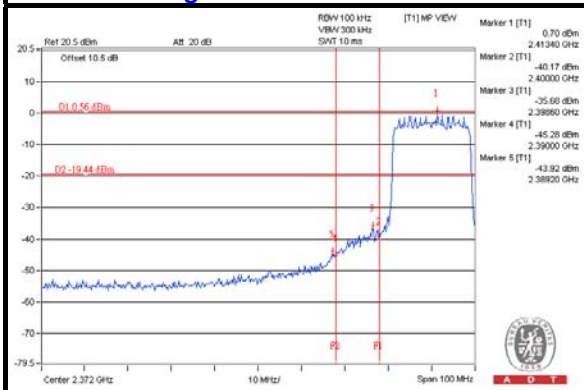
CH 6



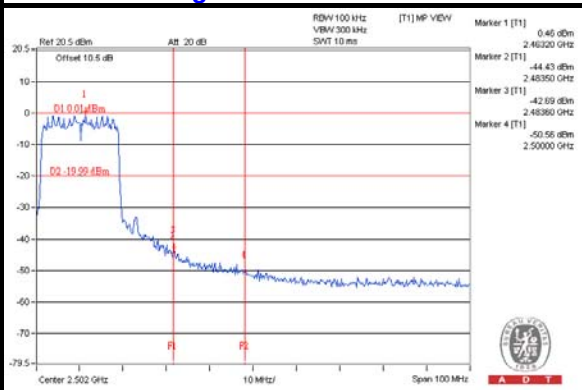
CH 11



CH 1 Band edge



CH 11 Band edge





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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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6. INFORMATION ON THE TESTING LABORATORIES

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

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

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Web Site: www.bureauveritas-adt.com

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



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

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

---END---