



FCC TEST REPORT

REPORT NO.: RF930920L09A

MODEL NO.: WL-565, WL-565B

RECEIVED: Dec. 24, 2004

TESTED: Dec. 24, 2004 ~ Jan. 10, 2005

ISSUED: Jan. 11, 2005

APPLICANT: 3Com Corporation

ADDRESS: 350 Campus Drive, Marlborough, MA 01752-3064, U.S.A.

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

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

This test report consists of 104 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CNLA, A2LA or any government agencies. The test results in the report only apply to the tested sample.



Table of Contents

1	CERTIFICATION	4
2	SUMMARY OF TEST RESULTS	5
2.1	MEASUREMENT UNCERTAINTY	6
3	GENERAL INFORMATION	7
3.1	GENERAL DESCRIPTION OF EUT	7
3.2	DESCRIPTION OF TEST MODES	9
3.2.1	CONFIGURATION OF SYSTEM UNDER TEST	9
3.2.2	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:	11
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	13
3.4	DESCRIPTION OF SUPPORT UNITS	13
4	TEST TYPES AND RESULTS	14
4.1	CONDUCTED EMISSION MEASUREMENT	14
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	14
4.1.2	TEST INSTRUMENTS	14
4.1.3	TEST PROCEDURES	15
4.1.4	DEVIATION FROM TEST STANDARD	15
4.1.5	TEST SETUP	16
4.1.6	EUT OPERATING CONDITIONS	16
4.1.7	TEST RESULTS	17
4.2	RADIATED EMISSION MEASUREMENT	29
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	29
4.2.2	TEST INSTRUMENTS	30
4.2.3	TEST PROCEDURES	31
4.2.4	DEVIATION FROM TEST STANDARD	31
4.2.5	TEST SETUP	32
4.2.6	EUT OPERATING CONDITIONS	32
4.2.7	TEST RESULTS	33
4.3	6dB BANDWIDTH MEASUREMENT	69
4.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	69
4.3.2	TEST INSTRUMENTS	69
4.3.3	TEST PROCEDURE	70
4.3.4	DEVIATION FROM TEST STANDARD	70
4.3.5	TEST SETUP	70
4.3.6	EUT OPERATING CONDITIONS	70
4.3.7	TEST RESULTS	71
4.4	MAXIMUM PEAK OUTPUT POWER	77
4.4.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT	77
4.4.2	TEST INSTRUMENTS	77
4.4.3	TEST PROCEDURES	78

4.4.4	DEVIATION FROM TEST STANDARD	78
4.4.5	TEST SETUP.....	78
4.4.6	EUT OPERATING CONDITIONS	78
4.4.7	TEST RESULTS	79
4.5	POWER SPECTRAL DENSITY MEASUREMENT	81
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	81
4.5.2	TEST INSTRUMENTS.....	81
4.5.3	TEST PROCEDURE.....	82
4.5.4	DEVIATION FROM TEST STANDARD	82
4.5.5	TEST SETUP.....	82
4.5.6	EUT OPERATING CONDITIONS	82
4.5.7	TEST RESULTS	83
4.6	BAND EDGES MEASUREMENT	89
4.6.1	LIMITS OF BAND EDGES MEASUREMENT.....	89
4.6.2	TEST INSTRUMENTS.....	89
4.6.3	TEST PROCEDURE.....	89
4.6.4	DEVIATION FROM TEST STANDARD	89
4.6.5	EUT OPERATING CONDITION	89
4.6.6	TEST RESULTS	90
4.6.7	TEST RESULTS(B)	91
4.7	ANTENNA REQUIREMENT	98
4.7.1	STANDARD APPLICABLE	98
4.7.2	ANTENNA CONNECTED CONSTRUCTION	98
5	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	99
6	INFORMATION ON THE TESTING LABORATORIES	104



1 CERTIFICATION

PRODUCT : Indoor 11g 54Mbps Building to Building Bridge,
Outdoor 11g 54Mbps Building to Building Bridge

MODEL NO. : WL-565, WL-565B

BRAND NAME : 3COM

APPLICANT : 3Com Corporation

TESTED : Dec. 24, 2004 ~ Jan. 10, 2005

TEST SAMPLE : ENGINEERING SAMPLE

STANDARDS : FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

The above equipment (model: WL-565, WL-565B) has been tested by **Advance Data Technology Corporation**, 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 : Candice Chen , **DATE:** Jan. 11, 2005
(Candice Chen)

TECHNICAL
ACCEPTANCE : Gary Chang , **DATE:** Jan. 11, 2005
Responsible for RF (Gary Chang)

APPROVED BY : Cody Chang , **DATE:** Jan. 11, 2005
(Cody Chang,
Deputy Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -11.50dB at 0.541MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -0.49dB at 101.92MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20 dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

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:

Measurement	Frequency	Uncertainty
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.73 dB
	200MHz ~1000MHz	3.74 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge
MODEL NO.	WL-565, WL-565B
POWER SUPPLY	48Vdc from POE
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	50.816mW
ANTENNA TYPE	Please refer to the note 5 as below
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	NA

NOTE:

1. This report is prepared for FCC class II permissive change. The difference compared with the original design is layout changed.
2. The EUT was tested with the following two POE (Power over Ethernet):

POE 1:

BRAND:	3 COM
MODEL :	61-0107-000
INPUT :	100-240Vac, 50/60Hz, 500mA
OUTPUT :	48Vdc, 400mA
POWER LINE:	AC 1.8m nonshielded cable without core

POE 2:

BRAND:	3COM
MODEL :	PW130RA4800N02
INPUT :	100-250Vac, 50/60Hz, 500mA
OUTPUT :	48Vdc, 420mA
POWER LINE:	AC 1.8m nonshielded cable without core

Note: There are two test data provided in Conducted Emission and Radiation Emission below 1GHz test.

3. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
4. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.

5. There are 7 antennas provided to this EUT. The information about those antennas as below table:

Ant. Type	Ant. Gain	Ant. Connector (model)
Hallway Bidirectional Ant. (Patch Ant.)	4.0dBi	N-Type (3CWE497)
Ceiling Mount Omnidirectional Ant. (Dipole Ant.)	2.5dBi	N-Type (3CWE492)
Omnidirectional Ant. (Dipole Ant.)	4.0dBi	N-Type (3CWE490)
Omnidirectional Ant. (Dipole Ant.)	8.0dBi	N-Type (3CWE491)
Sector-Panel Ant. (Patch Ant.)	8.0dBi	N-Type (3CWE498)
Sector-Panel Ant. (Patch Ant.)	13.0dBi	N-Type (3CWE495)
Sector-Panel Ant. (Patch Ant.)	18.0dBi	N-Type (3CWE496)

Remark: The antenna type: Hallway Bidirectional Ant. (gain: 4.0dBi), Omnidirectional Ant. (gain: 8.0dBi) and Sector-Panel Ant. (gain: 18.0dBi) are chosen for final test in this report. We have tested for each type of antenna and chosen the highest gain of each type for final test and recorded.

6. This EUT has indoor and outdoor function. The indoor function has 7 antennas (as above table) and outdoor has only 1 antenna which type: Sector-Panel Ant. (gain: 18.0dBi).
7. There are two product names and model names provided to this EUT. Please refer to the table as below for EUT's information:

Product Name	Model Name
Outdoor 11g 54Mbps Building to Building Bridge	WL-565B
Indoor 11g 54Mbps Building to Building Bridge	WL-565

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

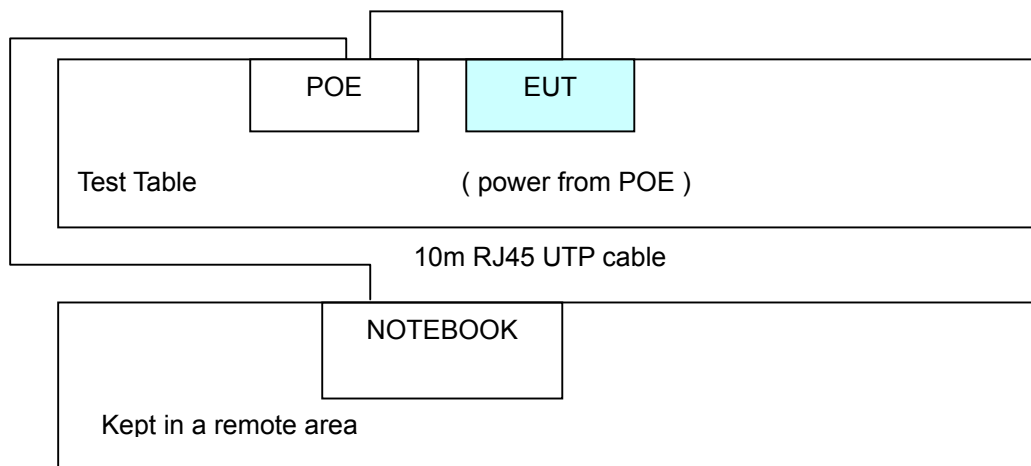
3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

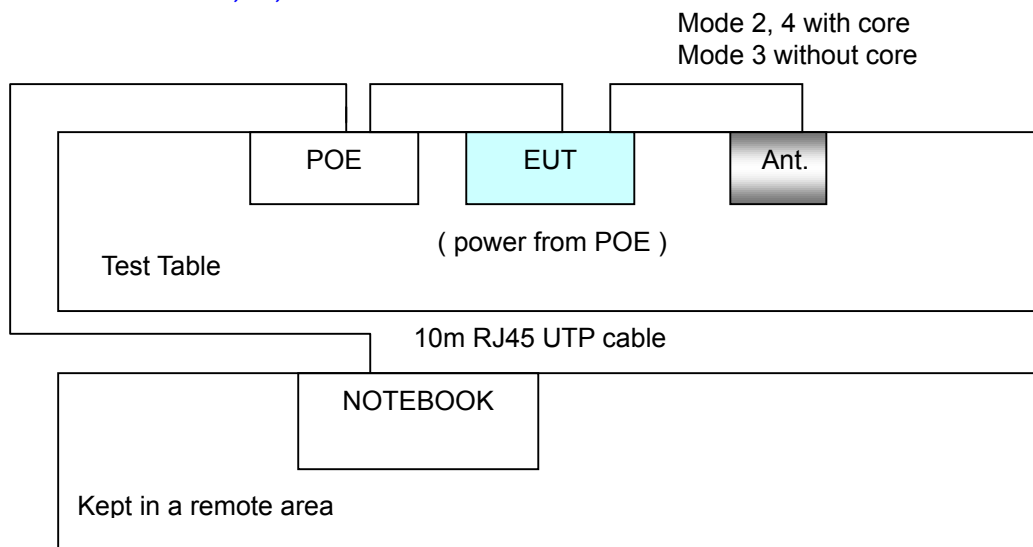
Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

For Test Mode 1



For Test Mode 2, 3, 4



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
1	Note 1	x	Note 2	Note 3	Model No.: WL-565B, Antenna type: Sector-Panel antenna (18.0dBi)
2	Note 1	x	Note 2	Note 3	Model No.: WL-565, Antenna type: Hallway Bidirectional antenna (4.0dBi)
3	Note 1	x	Note 2	Note 3	Model No.: WL-565, Antenna type: Omnidirectional antenna (8.0dBi)
4	Note 1	x	Note 2	Note 3	Model No.: WL-565, Antenna type: Sector-Panel antenna (18.0dBi)

Where PLC: Power Line Conducted Emission

RE<1G RE: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

Note 1: Pre-scan shown antenna has no effect for PLC test and only worst case recorded in the report.

Note 2: Pre-scan shown POE has no effect for radiated emission about 1GHz and only worst case recorded in the report.

Note 3: Conducted RF measurement is independent of antennas and POE.

Power Line Conducted Emission Test:

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	USE POE
1	1 to 11	1, 6, 11	OFDM	BPSK	6	POE 1
1	1 to 11	1, 6, 11	OFDM	BPSK	6	POE 2

Radiated Emission Test (Below 1 GHz):

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	USE POE
1, 2, 3, 4	1 to 11	11	OFDM	BPSK	6	POE 1
1, 2, 3, 4	1 to 11	11	OFDM	BPSK	6	POE 2

Radiated Emission Test (Above 1 GHz):

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
1, 2, 3, 4	1 to 11	1, 6, 11	DSSS	CCK	11
1, 2, 3, 4	1 to 11	1, 6, 11	OFDM	BPSK	6

**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.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	1 to 11	1, 11	DSSS	CCK	11
-	1 to 11	1, 11	OFDM	BPSK	6

Antenna Port Conducted Measurement:

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

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	1 to 11	1, 6, 11	DSSS	CCK	11
-	1 to 11	1, 6, 11	OFDM	BPSK	6

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4- 2003

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.

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS

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

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 act as a communication partner to transfer data.

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 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.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 06, 2005
RF signal cable Woken	5D-FB	Cable-HyC02-01	Mar. 07, 2005
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Mar. 10, 2005
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Mar. 04, 2005
Software ADT	ADT_Cond_V3	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.



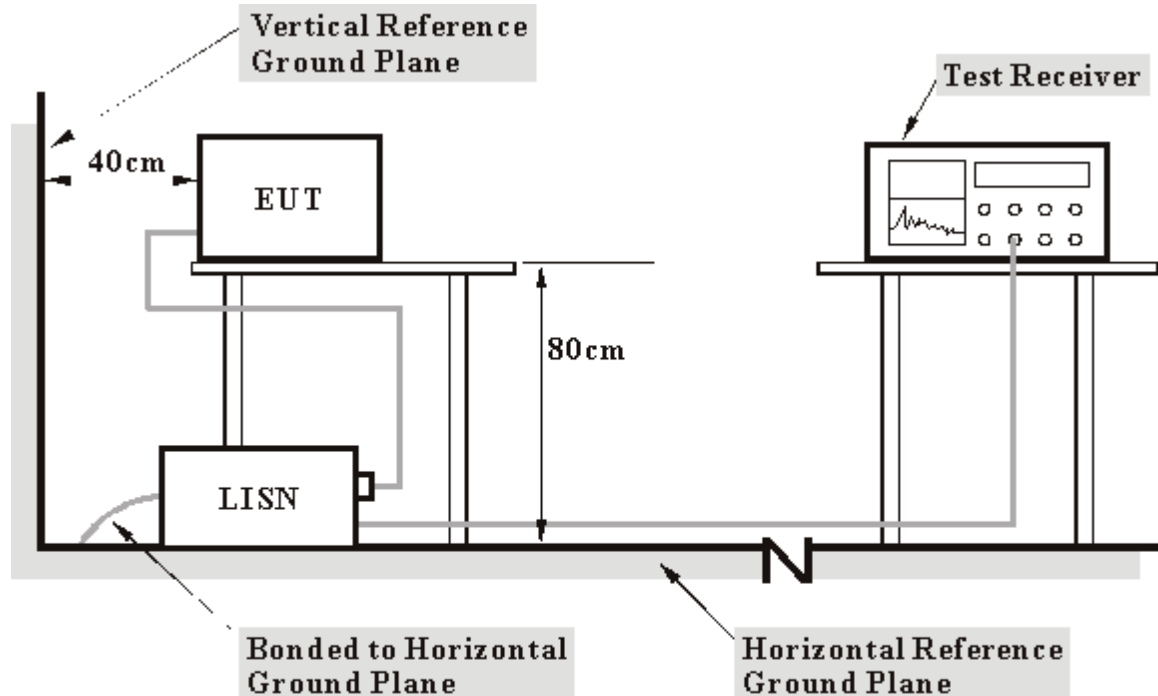
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another Notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via "RJ45" cable and run a Test program (provided by manufacturer) to enable EUT under transmission/Receiving condition continuously at specific channels frequency.
- d. The communication partner sent data to EUT by command "PING".

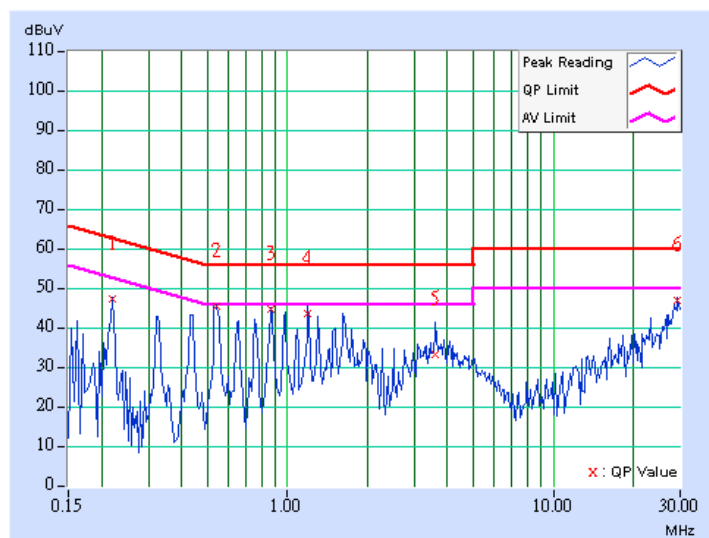
4.1.7 TEST RESULTS

Conducted Worst-Case Data with test mode 1

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	POE (MODEL)	61-0107-000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH, 991 hPa	PHASE	Line (L)
TESTED BY	Match Tsui		

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	0.220	0.10	45.96	-	46.06	-	62.81	52.81	-16.75	-
2	0.541	0.15	44.22	-	44.37	-	56.00	46.00	-11.63	-
3	0.869	0.22	43.44	-	43.66	-	56.00	46.00	-12.34	-
4	1.191	0.25	42.50	-	42.75	-	56.00	46.00	-13.25	-
5	3.613	0.30	31.99	-	32.29	-	56.00	46.00	-23.71	-
6	29.234	1.30	45.71	-	47.01	-	60.00	50.00	-12.99	-

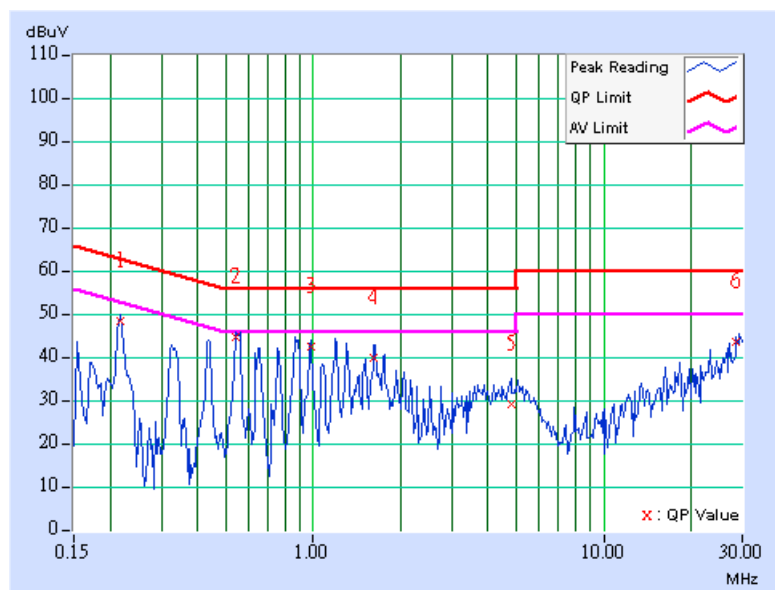
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	POE (MODEL)	61-0107-000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH, 991 hPa	PHASE	Neutral (N)
TESTED BY	Match Tsui		

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	0.216	0.10	48.01	-	48.11	-	62.96	52.96	-14.84	-
2	0.541	0.14	44.28	-	44.42	-	56.00	46.00	-11.58	-
3	0.978	0.23	41.92	-	42.15	-	56.00	46.00	-13.85	-
4	1.617	0.25	39.42	-	39.67	-	56.00	46.00	-16.33	-
5	4.809	0.34	28.76	-	29.10	-	56.00	46.00	-26.90	-
6	28.684	0.64	43.01	-	43.65	-	60.00	50.00	-16.35	-

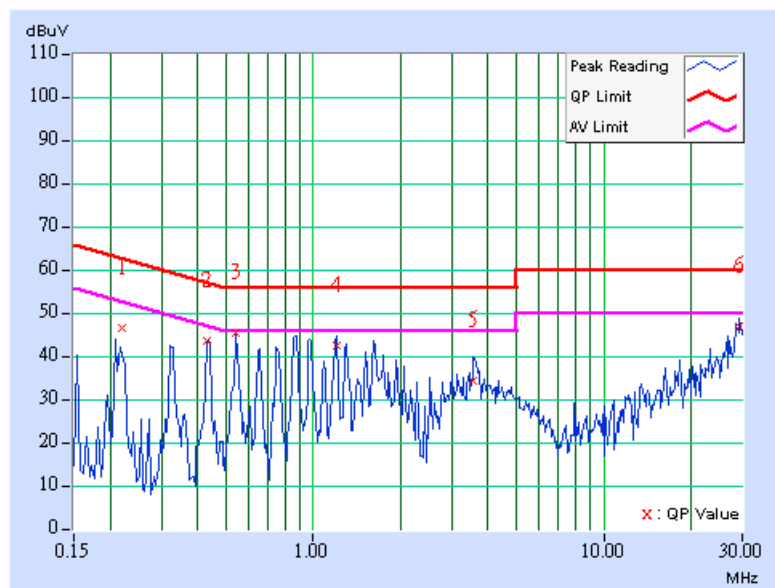
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	POE (MODEL)	61-0107-000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH, 991 hPa	PHASE	Line (L)
TESTED BY	Match Tsui		

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	0.220	0.10	45.31	-	45.41	-	62.82	52.82	-17.41	-
2	0.431	0.12	42.25	-	42.37	-	57.23	47.23	-14.86	-
3	0.545	0.15	44.22	-	44.37	-	56.00	46.00	-11.63	-
4	1.203	0.25	41.42	-	41.67	-	56.00	46.00	-14.33	-
5	3.570	0.30	33.13	-	33.43	-	56.00	46.00	-22.57	-
6	29.234	1.30	45.75	-	47.05	-	60.00	50.00	-12.95	-

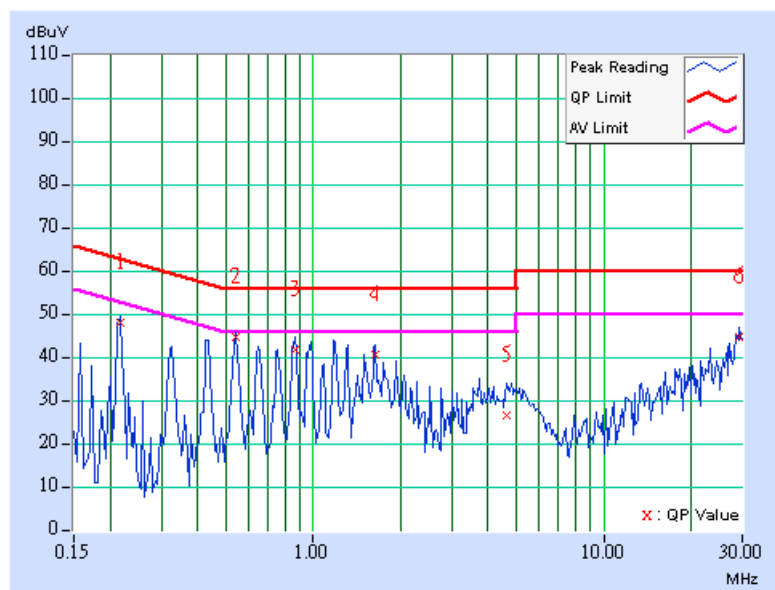
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	POE (MODEL)	61-0107-000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH, 991 hPa	PHASE	Neutral (N)
TESTED BY	Match Tsui		

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	0.216	0.10	47.68	-	47.78	-	62.96	52.96	-15.17	-
2	0.541	0.14	44.36	-	44.50	-	56.00	46.00	-11.50	-
3	0.861	0.21	41.13	-	41.34	-	56.00	46.00	-14.66	-
4	1.637	0.25	40.04	-	40.29	-	56.00	46.00	-15.71	-
5	4.629	0.33	26.16	-	26.49	-	56.00	46.00	-29.51	-
6	29.234	0.63	44.27	-	44.90	-	60.00	50.00	-15.10	-

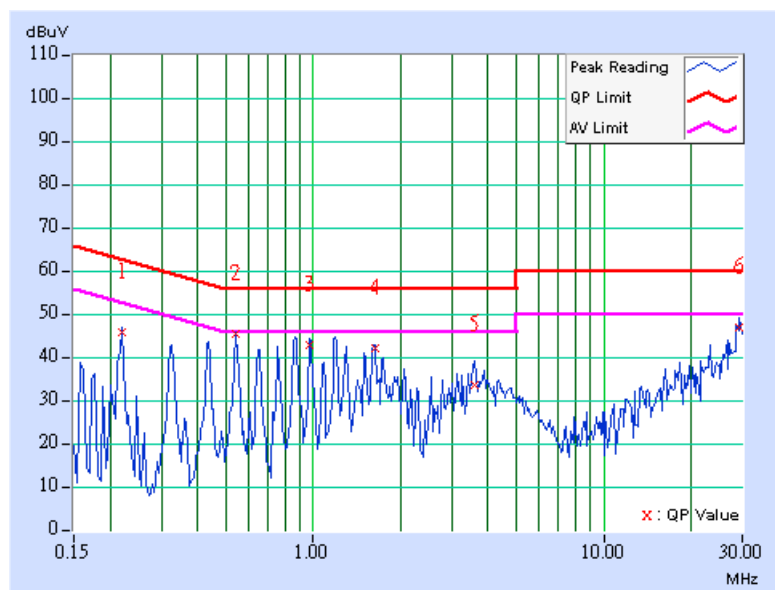
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	POE (MODEL)	61-0107-000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH, 991 hPa	PHASE	Line (L)
TESTED BY	Match Tsui		

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	0.220	0.10	44.75	-	44.85	-	62.81	52.81	-17.96	-
2	0.541	0.15	44.32	-	44.47	-	56.00	46.00	-11.53	-
3	0.970	0.24	41.80	-	42.04	-	56.00	46.00	-13.96	-
4	1.626	0.26	41.10	-	41.36	-	56.00	46.00	-14.64	-
5	3.602	0.30	32.49	-	32.79	-	56.00	46.00	-23.21	-
6	29.234	1.30	45.84	-	47.14	-	60.00	50.00	-12.86	-

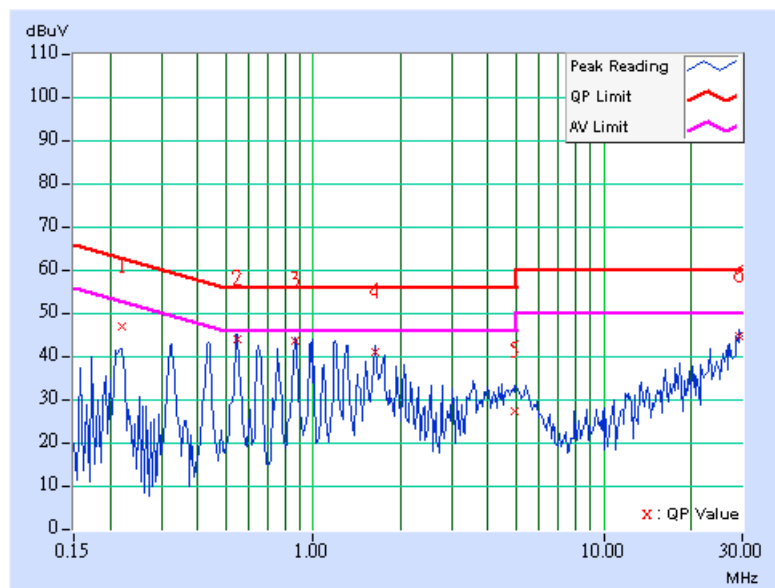
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	POE (MODEL)	61-0107-000
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 60% RH, 991 hPa	PHASE	Neutral (N)
TESTED BY	Match Tsui		

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	0.220	0.10	46.56	-	46.66	-	62.81	52.81	-16.15	-
2	0.548	0.14	43.55	-	43.69	-	56.00	46.00	-12.31	-
3	0.869	0.21	43.18	-	43.39	-	56.00	46.00	-12.61	-
4	1.625	0.25	40.56	-	40.81	-	56.00	46.00	-15.19	-
5	4.965	0.35	26.67	-	27.02	-	56.00	46.00	-28.98	-
6	29.234	0.63	44.31	-	44.94	-	60.00	50.00	-15.06	-

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

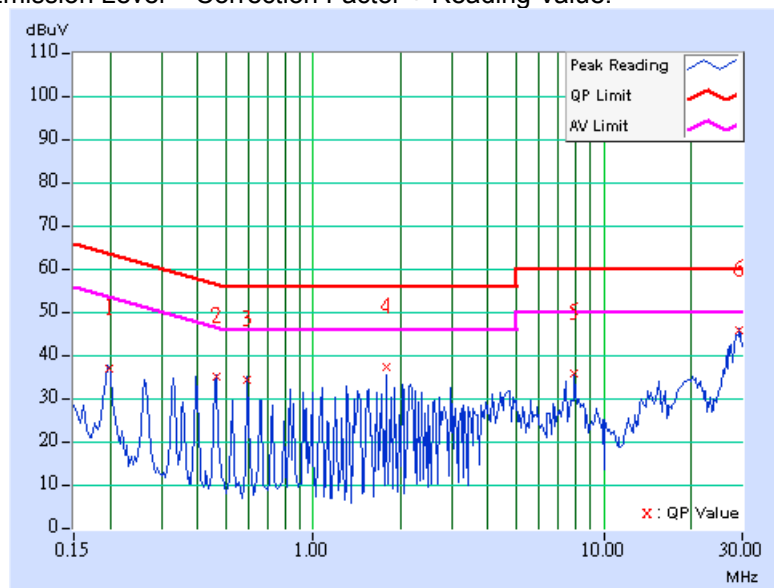


Conducted Worst-Case Data with test mode 2

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	POE (MODEL)	PW130RA480 0N02
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 73% RH, 991 hPa	PHASE	Line (L)
TESTED BY	Scott Yang		

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	0.198	0.11	35.94	-	36.05	-	63.69	53.69	-27.64	-
2	0.463	0.12	34.02	-	34.14	-	56.65	46.65	-22.51	-
3	0.595	0.13	33.11	-	33.24	-	56.00	46.00	-22.76	-
4	1.783	0.20	36.16	-	36.36	-	56.00	46.00	-19.64	-
5	7.923	0.40	34.72	-	35.12	-	60.00	50.00	-24.88	-
6	29.235	1.22	44.75	-	45.97	-	60.00	50.00	-14.03	-

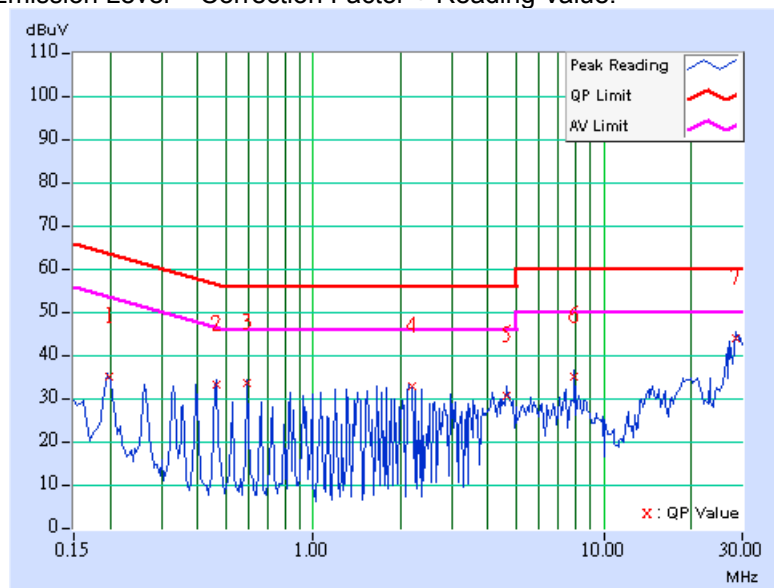
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	POE (MODEL)	PW130RA480 0N02
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 73% RH, 991 hPa	PHASE	Neutral (N)
TESTED BY	Scott Yang		

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	0.198	0.10	34.61	-	34.71	-	63.69	53.69	-28.98	-
2	0.463	0.11	32.91	-	33.02	-	56.65	46.65	-23.63	-
3	0.594	0.12	33.23	-	33.35	-	56.00	46.00	-22.65	-
4	2.177	0.22	32.29	-	32.51	-	56.00	46.00	-23.49	-
5	4.632	0.30	30.18	-	30.48	-	56.00	46.00	-25.52	-
6	7.924	0.38	34.60	-	34.98	-	60.00	50.00	-25.02	-
7	28.686	0.50	43.48	-	43.98	-	60.00	50.00	-16.02	-

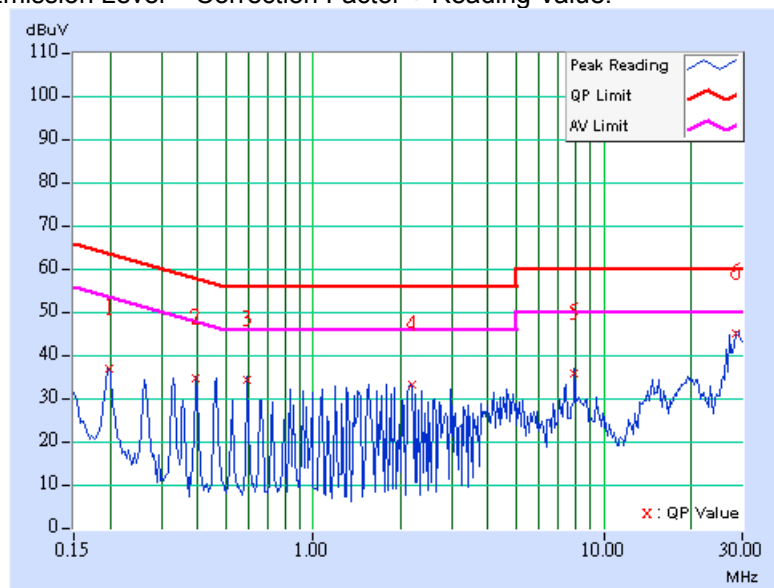
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	POE (MODEL)	PW130RA480 0N02
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 73% RH, 991 hPa	PHASE	Line (L)
TESTED BY	Scott Yang		

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	0.198	0.11	35.74	-	35.85	-	63.69	53.69	-27.84	-
2	0.396	0.12	33.69	-	33.81	-	57.93	47.93	-24.13	-
3	0.595	0.13	33.39	-	33.52	-	56.00	46.00	-22.48	-
4	2.177	0.22	32.31	-	32.53	-	56.00	46.00	-23.47	-
5	7.923	0.40	34.76	-	35.16	-	60.00	50.00	-24.84	-
6	28.686	1.20	44.05	-	45.25	-	60.00	50.00	-14.75	-

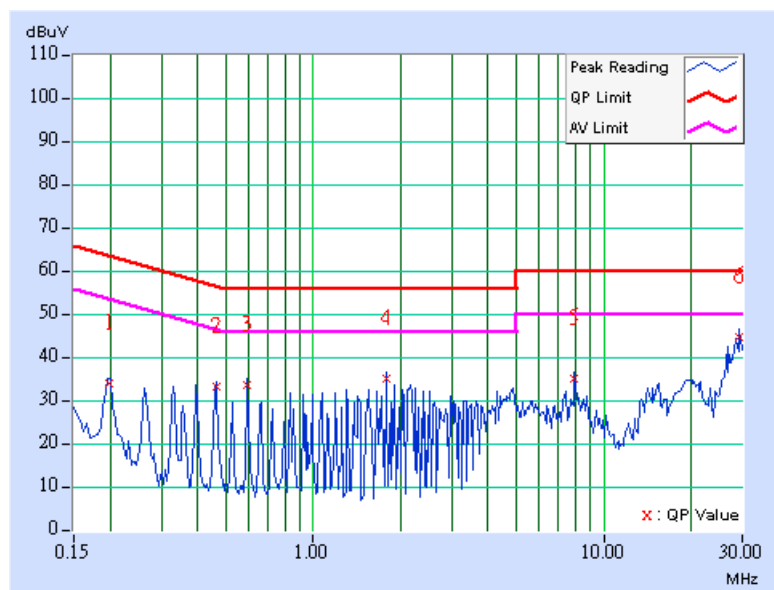
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	POE (MODEL)	PW130RA480 0N02
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 73% RH, 991 hPa	PHASE	Neutral (N)
TESTED BY	Scott Yang.		

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	0.198	0.10	33.68	-	33.78	-	63.68	53.68	-29.90	-
2	0.463	0.11	32.77	-	32.88	-	56.65	46.65	-23.77	-
3	0.595	0.12	33.25	-	33.37	-	56.00	46.00	-22.63	-
4	1.785	0.20	34.71	-	34.91	-	56.00	46.00	-21.09	-
5	7.923	0.38	34.74	-	35.12	-	60.00	50.00	-24.88	-
6	29.236	0.48	44.18	-	44.66	-	60.00	50.00	-15.34	-

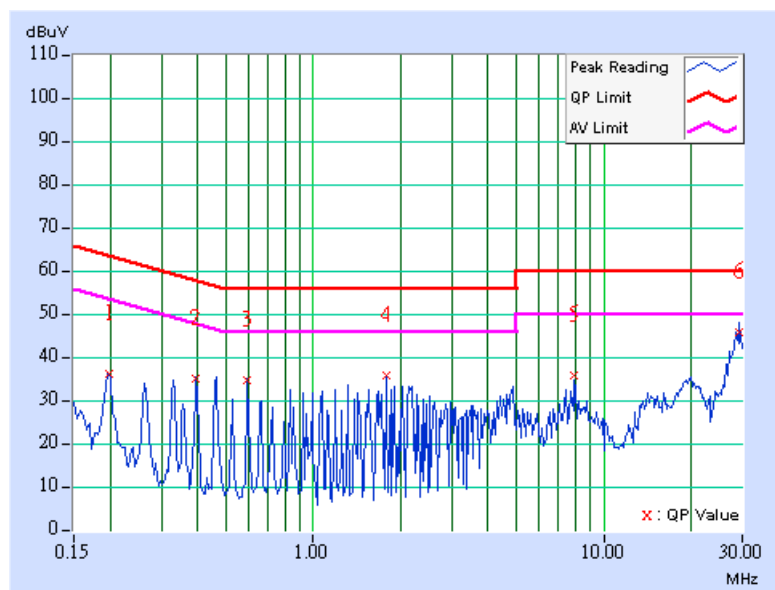
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	POE (MODEL)	PW130RA480 0N02
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa	PHASE	Line (L)
TESTED BY	Leo Hung		

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	0.198	0.11	35.25	-	35.36	-	63.69	53.69	-28.33	-
2	0.396	0.12	33.83	-	33.95	-	57.93	47.93	-23.99	-
3	0.595	0.13	33.43	-	33.56	-	56.00	46.00	-22.44	-
4	1.785	0.20	34.67	-	34.87	-	56.00	46.00	-21.13	-
5	7.925	0.40	34.76	-	35.16	-	60.00	50.00	-24.84	-
6	29.236	1.22	44.79	-	46.01	-	60.00	50.00	-13.99	-

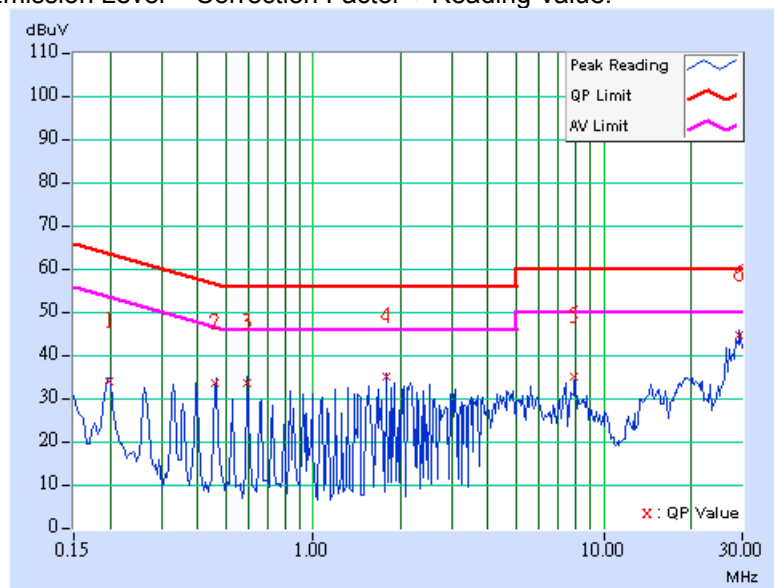
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	POE (MODEL)	PW130RA480 0N02
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 73% RH, 991 hPa	PHASE	Neutral (N)
TESTED BY	Scott Yang		

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	0.198	0.10	33.44	-	33.54	-	63.71	53.71	-30.17	-
2	0.461	0.11	33.20	-	33.31	-	56.67	46.67	-23.36	-
3	0.595	0.12	33.19	-	33.31	-	56.00	46.00	-22.69	-
4	1.785	0.20	34.53	-	34.73	-	56.00	46.00	-21.27	-
5	7.924	0.38	34.72	-	35.10	-	60.00	50.00	-24.90	-
6	29.236	0.48	44.20	-	44.68	-	60.00	50.00	-15.32	-

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 19, 2005
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Nov. 21, 2005
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-407	Feb. 03, 2005
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA 9170241	Feb. 23, 2005
Preamplifier Agilent	8449B	3008A01961	Nov. 09, 2005
Preamplifier Agilent	8447D	2944A10629	Nov. 09, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218182/4	Mar. 04, 2005
RF signal cable HUBER+SUHNER	SUCOFLEX 104	218194/4	Mar. 04, 2005
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower ADT.	AT100	AT93021702	NA
Turn Table ADT.	TT100.	TT93021702	NA
Controller ADT.	SC100.	SC93021702	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 Chamber 1.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC4924-2.

4.2.3 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 10 dB 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 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

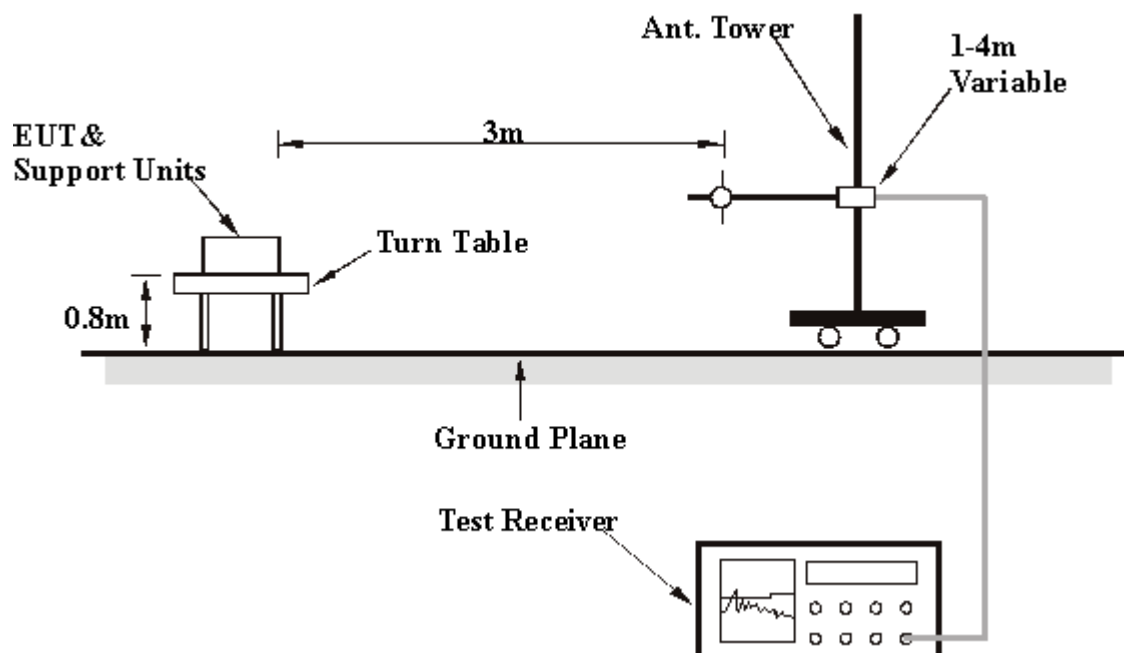
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

Below 1GHz Worst-Case Data with POE (Model): 61-0107-000

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 11	TEST MODE	1
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	61-0107-000	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 74% RH, 991 hPa	TESTED BY	Steven Lu

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	199.99	32.31 QP	43.50	-11.19	1.77 H	3	22.02	10.29
2	249.99	40.45 QP	46.00	-5.55	1.03 H	299	27.04	13.41
3	274.99	39.29 QP	46.00	-6.71	1.23 H	6	24.37	14.92
4	375.01	42.73 QP	46.00	-3.27	1.69 H	309	25.27	17.46
5	500.01	44.52 QP	46.00	-1.48	1.18 H	91	24.30	20.22
6	549.96	36.44 QP	46.00	-9.56	1.83 H	93	15.18	21.26
7	625.00	40.82 QP	46.00	-5.18	1.59 H	116	18.19	22.63
8	750.00	40.75 QP	46.00	-5.25	1.29 H	33	16.76	23.99
9	824.93	39.05 QP	46.00	-6.95	1.38 H	309	14.56	24.49
10	874.99	38.62 QP	46.00	-7.38	1.15 H	123	13.62	25.00

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	200.01	28.89 QP	43.50	-14.61	1.44 V	305	18.60	10.29
2	250.01	41.53 QP	46.00	-4.47	1.00 V	40	28.12	13.41
3	274.98	33.89 QP	46.00	-12.11	1.00 V	351	18.97	14.92
4	374.98	39.14 QP	46.00	-6.86	1.00 V	340	21.68	17.46
5	500.01	44.54 QP	46.00	-1.46	1.00 V	253	24.32	20.22
6	550.01	33.82 QP	46.00	-12.18	1.23 V	6	12.56	21.26
7	625.00	41.88 QP	46.00	-4.12	1.26 V	296	19.25	22.63
8	750.00	38.20 QP	46.00	-7.80	1.07 V	155	14.21	23.99
9	824.96	34.87 QP	46.00	-11.13	1.37 V	122	10.38	24.49
10	875.01	38.05 QP	46.00	-7.95	1.36 V	200	13.05	25.00

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	2
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	61-0107-000	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 74% RH, 991 hPa	TESTED BY	Steven Lu

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	224.99	29.23 QP	46.00	-16.77	1.42 H	342	17.38	11.85
2	250.00	41.01 QP	46.00	-4.99	1.06 H	31	27.60	13.41
3	275.00	40.94 QP	46.00	-5.06	1.28 H	7	26.02	14.92
4	375.00	44.28 QP	46.00	-1.72	1.09 H	0	26.82	17.46
5	500.00	43.68 QP	46.00	-2.32	1.09 H	284	23.46	20.22
6	549.99	34.44 QP	46.00	-11.56	1.83 H	41	13.18	21.26
7	625.01	42.65 QP	46.00	-3.35	1.15 H	300	20.02	22.63
8	750.01	41.73 QP	46.00	-4.27	1.00 H	5	17.74	23.99
9	824.95	37.18 QP	46.00	-8.82	1.38 H	284	12.69	24.49
10	875.01	38.63 QP	46.00	-7.37	1.00 H	22	13.63	25.00

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	250.02	39.53 QP	46.00	-6.47	1.29 V	182	26.12	13.41
2	325.02	27.56 QP	46.00	-18.44	1.26 V	355	11.47	16.09
3	375.02	43.50 QP	46.00	-2.50	1.29 V	185	26.04	17.46
4	400.00	37.34 QP	46.00	-8.66	1.12 V	61	18.94	18.40
5	499.98	44.71 QP	46.00	-1.29	1.04 V	160	24.49	20.22
6	550.01	32.81 QP	46.00	-13.19	1.11 V	0	11.55	21.26
7	624.98	41.29 QP	46.00	-4.71	1.06 V	224	18.66	22.63
8	749.98	33.94 QP	46.00	-12.06	1.01 V	322	9.95	23.99
9	824.93	37.09 QP	46.00	-8.91	1.17 V	156	12.60	24.49
10	875.01	37.71 QP	46.00	-8.29	1.17 V	65	12.71	25.00

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	3
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	61-0107-000	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 74% RH, 991 hPa	TESTED BY	Steven Lu

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	200.02	32.76 QP	43.50	-10.74	1.42 H	58	22.47	10.29
2	224.97	30.10 QP	46.00	-15.90	1.40 H	59	18.25	11.85
3	250.02	42.11 QP	46.00	-3.89	1.07 H	315	28.70	13.41
4	275.00	39.34 QP	46.00	-6.66	1.00 H	20	24.42	14.92
5	375.00	42.61 QP	46.00	-3.39	1.45 H	146	25.15	17.46
6	450.00	29.43 QP	46.00	-16.57	1.61 H	344	10.41	19.02
7	499.99	44.82 QP	46.00	-1.18	1.00 H	322	24.60	20.22
8	550.00	34.49 QP	46.00	-11.51	1.74 H	137	13.23	21.26
9	625.00	43.92 QP	46.00	-2.08	1.00 H	130	21.29	22.63
10	750.00	38.57 QP	46.00	-7.43	1.59 H	209	14.58	23.99
11	824.93	39.10 QP	46.00	-6.90	1.14 H	273	14.61	24.49
12	875.02	38.96 QP	46.00	-7.04	1.00 H	0	13.96	25.00

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	250.00	38.41 QP	46.00	-7.59	1.08 V	89	25.00	13.41
2	275.00	35.00 QP	46.00	-11.00	1.83 V	88	20.08	14.92
3	375.00	41.16 QP	46.00	-4.84	1.17 V	131	23.70	17.46
4	450.35	36.35 QP	46.00	-9.65	1.29 V	204	17.32	19.03
5	500.00	43.69 QP	46.00	-2.31	1.17 V	23	23.47	20.22
6	550.00	31.90 QP	46.00	-14.10	1.00 V	2	10.64	21.26
7	625.00	40.33 QP	46.00	-5.67	1.38 V	121	17.70	22.63
8	750.00	37.25 QP	46.00	-8.75	1.41 V	13	13.26	23.99
9	824.93	38.28 QP	46.00	-7.72	1.32 V	53	13.79	24.49
10	875.02	38.19 QP	46.00	-7.81	1.01 V	152	13.19	25.00

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	4
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	61-0107-000	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22 deg. C, 74% RH, 991 hPa	TESTED BY	Steven Lu

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	250.00	41.62 QP	46.00	-4.38	1.21 H	228	28.21	13.41
2	275.00	40.78 QP	46.00	-5.22	1.12 H	300	25.86	14.92
3	325.00	27.29 QP	46.00	-18.71	1.19 H	212	11.20	16.09
4	375.00	42.46 QP	46.00	-3.54	1.12 H	159	25.00	17.46
5	499.99	44.00 QP	46.00	-2.00	1.88 H	226	23.78	20.22
6	550.00	35.24 QP	46.00	-10.76	1.55 H	5	13.98	21.26
7	625.00	42.77 QP	46.00	-3.23	1.08 H	359	20.14	22.63
8	750.00	40.98 QP	46.00	5.02	1.00 H	15	16.99	23.99
9	824.94	38.75 QP	46.00	-7.25	1.28 H	307	14.26	24.49
10	875.00	39.55 QP	46.00	-6.45	1.46 H	118	14.25	25.00

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	225.00	25.27 QP	46.00	-20.73	1.73 V	152	13.42	11.85
2	249.99	41.57 QP	46.00	-4.43	1.07 V	196	28.16	13.41
3	325.01	32.88 QP	46.00	-13.12	1.56 V	0	16.79	16.09
4	374.99	37.78 QP	46.00	-8.22	1.08 V	311	20.32	17.46
5	499.99	44.65 QP	46.00	-1.35	1.48 V	198	24.43	20.22
6	550.05	33.20 QP	46.00	-12.80	1.80 V	311	11.94	21.26
7	625.00	41.51 QP	46.00	-4.49	1.24 V	292	18.88	22.63
8	750.00	35.22 QP	46.00	-10.78	1.56 V	13	11.23	23.99
9	824.96	35.17 QP	46.00	-10.83	2.08 V	28	10.68	24.49
10	875.00	35.44 QP	46.00	-10.56	1.50 V	197	10.44	25.00

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

Below 1GHz Worst-Case Data with POE (Model): PW130RA4800N02

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 11	TEST MODE	1
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	37.78	25.14 QP	40.00	-14.86	2.50 H	91	10.28	14.86
2	197.17	28.47 QP	43.50	-15.03	1.00 H	307	16.86	11.61
3	239.94	42.49 QP	46.00	-3.51	1.50 H	322	29.41	13.08
4	329.36	32.30 QP	46.00	-13.70	1.00 H	289	17.09	15.20
5	395.45	37.04 QP	46.00	-8.96	2.00 H	13	20.33	16.70
6	479.04	38.56 QP	46.00	-7.44	2.00 H	70	20.07	18.49
7	527.64	34.71 QP	46.00	-11.29	1.50 H	319	15.40	19.31
8	593.73	34.96 QP	46.00	-11.04	2.50 H	202	14.02	20.94
9	659.82	37.66 QP	46.00	-8.34	1.00 H	307	15.76	21.90
10	720.08	31.18 QP	46.00	-14.82	1.00 H	346	8.32	22.86
11	792.00	40.52 QP	46.00	-5.48	1.50 H	37	16.70	23.82
12	858.10	29.37 QP	46.00	-16.63	2.00 H	244	4.93	24.45
13	924.19	37.28 QP	46.00	-8.72	2.00 H	31	11.74	25.54

REMARKS:

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

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 11	TEST MODE	1
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	35.83	36.70 QP	40.00	-3.30	1.00 V	175	22.14	14.56
2	72.77	25.39 QP	40.00	-14.61	1.00 V	277	13.52	11.87
3	239.94	35.69 QP	46.00	-10.31	2.00 V	217	22.61	13.08
4	329.36	30.75 QP	46.00	-15.25	1.50 V	232	15.55	15.20
5	395.45	30.07 QP	46.00	-15.93	1.00 V	16	13.37	16.70
6	479.04	37.77 QP	46.00	-8.23	1.00 V	361	19.28	18.49
7	527.64	33.88 QP	46.00	-12.12	1.00 V	307	14.58	19.31
8	593.73	32.12 QP	46.00	-13.88	1.50 V	316	11.17	20.94
9	659.82	35.13 QP	46.00	-10.87	2.00 V	328	13.23	21.90
10	720.08	31.80 QP	46.00	-14.20	1.50 V	367	8.94	22.86
11	792.00	36.46 QP	46.00	-9.54	1.00 V	346	12.64	23.82
12	924.19	35.13 QP	46.00	-10.87	1.00 V	307	9.59	25.54

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	2
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	63.05	34.76 QP	40.00	-5.24	2.00 H	88	21.39	13.37
2	101.92	40.90 QP	43.50	-2.60	2.50 H	88	29.72	11.18
3	133.00	41.28 QP	43.50	-2.22	1.00 H	120	27.36	13.92
4	164.13	35.72 QP	43.50	-7.78	1.50 H	52	21.25	14.46
5	195.23	42.07 QP	43.50	-1.43	1.00 H	250	30.31	11.76
6	230.22	38.99 QP	46.00	-7.01	1.50 H	226	26.51	12.48
7	263.22	44.39 QP	46.00	-1.61	1.00 H	120	30.87	13.52
8	317.70	37.40 QP	46.00	-8.60	1.00 H	4	22.46	14.94
9	374.07	38.26 QP	46.00	-7.74	1.00 H	115	22.04	16.22
10	500.42	39.50 QP	46.00	-6.50	1.50 H	346	20.75	18.75
11	584.01	32.76 QP	46.00	-13.24	1.50 H	148	12.08	20.68
12	624.57	44.60 QP	46.00	-1.40	1.50 H	120	23.16	21.44
13	659.82	33.15 QP	46.00	-12.85	2.00 H	307	11.26	21.90
14	751.18	40.26 QP	46.00	-5.74	1.00 H	265	16.66	23.60
15	792.00	36.23 QP	46.00	-9.77	1.00 H	139	12.41	23.82
16	875.59	35.34 QP	46.00	-10.66	1.50 H	268	10.54	24.80

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	2
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	43.70	38.61 QP	40.00	-1.39	1.00 V	120	23.32	15.29
2	101.92	40.35 QP	43.50	-3.15	1.00 V	127	29.17	11.18
3	142.75	33.29 QP	43.50	-10.21	1.00 V	244	18.82	14.46
4	208.84	33.39 QP	43.50	-10.11	1.00 V	121	21.80	11.59
5	249.66	41.53 QP	46.00	-4.47	1.00 V	31	28.30	13.23
6	284.65	33.57 QP	46.00	-12.43	1.00 V	121	19.27	14.30
7	374.07	33.61 QP	46.00	-12.39	2.00 V	307	17.39	16.22
8	500.42	42.22 QP	46.00	-3.78	1.00 V	247	23.47	18.75
9	584.01	32.59 QP	46.00	-13.41	1.00 V	91	11.91	20.68
10	624.83	38.97 QP	46.00	-7.03	1.00 V	304	17.53	21.44
11	659.82	34.56 QP	46.00	-11.44	1.00 V	109	12.66	21.90
12	751.18	37.75 QP	46.00	-8.25	2.00 V	319	14.15	23.60
13	792.00	34.68 QP	46.00	-11.32	1.50 V	133	10.87	23.82
14	875.59	32.22 QP	46.00	-13.78	1.50 V	337	7.42	24.80

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	3
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	47.50	38.50 QP	40.00	-1.50	1.50 H	300	23.48	15.02
2	84.43	33.02 QP	40.00	-6.98	2.50 H	244	22.94	10.08
3	123.31	41.05 QP	43.50	-2.45	1.50 H	220	27.79	13.26
4	164.13	31.72 QP	43.50	-11.78	2.00 H	82	17.25	14.46
5	199.12	37.15 QP	43.50	-6.35	1.00 H	253	25.69	11.46
6	250.00	44.43 QP	46.00	-1.57	1.25 H	300	31.20	13.23
7	284.65	34.50 QP	46.00	-11.50	1.00 H	124	20.20	14.30
8	317.70	34.82 QP	46.00	-11.18	1.00 H	118	19.88	14.94
9	374.07	36.85 QP	46.00	-9.15	1.00 H	127	20.63	16.22
10	500.00	44.35 QP	46.00	-1.65	1.00 H	200	25.61	18.74
11	624.83	43.70 QP	46.00	-2.30	1.00 H	256	22.26	21.44
12	751.18	40.31 QP	46.00	-5.69	1.00 H	295	16.71	23.60
13	792.00	34.51 QP	46.00	-11.49	1.00 H	145	10.70	23.82
14	875.59	35.92 QP	46.00	-10.08	1.50 H	307	11.12	24.80

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	3
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	40.54	38.69 QP	40.00	-1.31	1.00 V	120	23.47	15.22
2	101.92	40.79 QP	43.50	-2.71	1.00 V	94	29.61	11.18
3	164.13	35.84 QP	43.50	-7.66	1.00 V	127	21.37	14.46
4	208.84	35.13 QP	43.50	-8.37	1.00 V	142	23.54	11.59
5	263.27	44.25 QP	46.00	-1.75	1.50 V	187	30.73	13.52
6	362.40	32.78 QP	46.00	-13.22	1.00 V	184	16.83	15.95
7	395.45	35.73 QP	46.00	-10.27	1.00 V	196	19.03	16.70
8	500.42	43.56 QP	46.00	-2.44	1.00 V	250	24.81	18.75
9	584.01	32.18 QP	46.00	-13.82	1.00 V	268	11.50	20.68
10	624.83	38.19 QP	46.00	-7.81	1.00 V	349	16.74	21.44
11	659.82	33.63 QP	46.00	-12.37	1.00 V	94	11.74	21.90
12	751.18	37.04 QP	46.00	-8.96	2.00 V	322	13.44	23.60
13	792.00	33.78 QP	46.00	-12.22	1.50 V	142	9.97	23.82

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	4
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	63.05	36.70 QP	40.00	-3.30	2.50 H	70	23.33	13.37
2	101.92	43.01 QP	43.50	-0.49	2.50 H	172	31.83	11.18
3	152.46	35.70 QP	43.50	-7.80	2.50 H	142	21.02	14.69
4	185.51	38.11 QP	43.50	-5.39	1.50 H	244	25.60	12.51
5	218.56	34.41 QP	46.00	-11.59	2.00 H	325	22.61	11.81
6	249.66	45.36 QP	46.00	-0.64	1.50 H	55	32.13	13.23
7	284.65	36.42 QP	46.00	-9.58	1.00 H	22	22.11	14.30
8	317.70	34.98 QP	46.00	-11.02	1.00 H	7	20.04	14.94
9	374.07	38.26 QP	46.00	-7.74	1.00 H	358	22.04	16.22
10	500.42	44.97 QP	46.00	-1.03	1.50 H	334	26.22	18.75
11	584.01	34.18 QP	46.00	-11.82	1.50 H	112	13.50	20.68
12	624.83	44.15 QP	46.00	-1.85	1.50 H	4	22.71	21.44
13	659.82	34.66 QP	46.00	-11.34	2.00 H	298	12.76	21.90
14	751.18	39.22 QP	46.00	-6.78	1.00 H	301	15.62	23.60
15	792.00	38.26 QP	46.00	-7.74	1.00 H	124	14.44	23.82
16	875.59	37.20 QP	46.00	-8.80	1.50 H	268	12.40	24.80

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	4
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
POE (MODEL)	PW130RA4800N02	FREQUENCY RANGE	Below 1000 MHz
INPUT POWER (SYSTEM)	120 Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	20 deg. C, 65% RH, 991 hPa	TESTED BY	Match Tsui

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	43.60	38.35 QP	40.00	-1.65	1.00 V	334	23.06	15.29
2	101.92	37.98 QP	43.50	-5.52	1.00 V	154	26.79	11.18
3	140.80	30.23 QP	43.50	-13.27	1.00 V	313	15.81	14.42
4	218.56	32.74 QP	46.00	-13.26	1.00 V	52	20.93	11.81
5	249.66	41.72 QP	46.00	-4.28	1.00 V	4	28.49	13.23
6	284.65	32.03 QP	46.00	-13.97	1.50 V	151	17.72	14.30
7	395.45	32.53 QP	46.00	-13.47	1.00 V	346	15.83	16.70
8	500.42	44.84 QP	46.00	-1.16	1.00 V	274	26.09	18.75
9	584.01	34.10 QP	46.00	-11.90	1.00 V	256	13.42	20.68
10	624.83	39.54 QP	46.00	-6.46	1.00 V	25	18.09	21.44
11	659.82	35.03 QP	46.00	-10.97	1.50 V	262	13.14	21.90
12	716.19	32.97 QP	46.00	-13.03	1.50 V	250	10.21	22.76
13	751.18	35.57 QP	46.00	-10.43	2.00 V	94	11.97	23.60
14	792.00	34.85 QP	46.00	-11.15	2.00 V	145	11.03	23.82
15	875.59	33.19 QP	46.00	-12.81	1.50 V	334	8.39	24.80

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

802.11b DSSS modulation

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 1	TEST MODE	1
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	2387.00	51.81 PK	74.00	-22.19	1.14 H	349	21.03	30.78
1	2387.00	43.97 AV	54.00	-10.03	1.14 H	349	13.19	30.78
2	*2412.00	100.01 PK			1.14 H	349	69.13	30.88
2	*2412.00	92.64 AV			1.14 H	349	61.76	30.88
3	4824.00	53.41 PK	74.00	-20.59	1.00 H	360	16.96	36.45
3	4824.00	49.35 AV	54.00	-4.65	1.00 H	360	12.90	36.45
4	9648.00	51.68 PK	74.00	-22.32	1.02 H	320	7.91	43.77
4	9648.00	43.11 AV	54.00	-10.89	1.02 H	320	-0.66	43.77

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	2387.00	61.45 PK	74.00	-12.55	1.11 V	351	30.67	30.78
1	2387.00	52.37 AV	54.00	-1.63	1.11 V	351	21.59	30.78
2	*2412.00	118.31 PK			1.11 V	351	87.43	30.88
2	*2412.00	109.40 AV			1.11 V	351	78.52	30.88
3	4824.00	52.86 PK	74.00	-21.14	1.10 V	348	16.41	36.45
3	4824.00	48.66 AV	54.00	-5.34	1.10 V	348	12.21	36.45
4	9648.00	52.12 PK	74.00	-21.88	1.12 V	300	8.35	43.77
4	9648.00	42.91 AV	54.00	-11.09	1.12 V	300	-0.86	43.77

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

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 6	TEST MODE	1
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	104.13 PK			1.05 H	360	73.15	30.98
1	*2437.00	96.21 AV			1.05 H	360	65.23	30.98
2	4874.00	54.11 PK	74.00	-19.89	1.00 H	360	17.50	36.61
2	4874.00	48.01 AV	54.00	-5.99	1.00 H	360	11.40	36.61
3	9748.00	48.13 PK	74.00	-25.87	1.01 H	331	8.04	40.09
3	9748.00	40.27 AV	54.00	-13.73	1.01 H	331	0.18	40.09

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	122.41 PK			1.10 V	340	91.43	30.98
1	*2437.00	114.62 AV			1.10 V	340	83.64	30.98
2	4874.00	54.16 PK	74.00	-19.84	1.11 V	341	17.55	36.61
2	4874.00	45.31 AV	54.00	-8.69	1.11 V	341	8.70	36.61
3	9748.00	47.98 PK	74.00	-26.02	1.00 V	10	7.89	40.09
3	9748.00	38.49 AV	54.00	-15.51	1.00 V	10	-1.60	40.09

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

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 11	TEST MODE	1
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	99.14 PK			1.21 H	344	68.06	31.08
1	*2462.00	91.36 AV			1.21 H	344	60.28	31.08
2	2487.00	51.38 PK	74.00	-22.62	1.21 H	344	20.20	31.18
2	2487.00	43.67 AV	54.00	-10.33	1.21 H	344	12.49	31.18
3	4924.00	49.67 PK	74.00	-24.33	1.11 H	360	12.87	36.80
3	4924.00	44.24 AV	54.00	-9.76	1.11 H	360	7.44	36.80
4	9848.00	45.94 PK	74.00	-28.06	1.12 H	355	8.95	36.99
4	9848.00	37.46 AV	54.00	-16.54	1.12 H	355	0.47	36.99

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	117.16 PK			1.10 V	10	86.08	31.08
1	*2462.00	109.41 AV			1.10 V	10	78.33	31.08
2	2487.00	62.38 PK	74.00	-11.62	1.10 V	10	31.20	31.18
2	2487.00	52.61 AV	54.00	-1.39	1.10 V	10	21.43	31.18
3	4924.00	51.56 PK	74.00	-22.44	1.11 V	11	14.76	36.80
3	4924.00	45.03 AV	54.00	-8.97	1.11 V	11	8.23	36.80
4	9848.00	44.13 PK	74.00	-29.87	1.00 V	350	7.14	36.99
4	9848.00	34.53 AV	54.00	-19.47	1.00 V	350	-2.46	36.99

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	TEST MODE	2
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	54.43 PK	74.00	-19.57	1.24 H	350	23.72	30.71
1	2390.00	43.81 AV	54.00	-10.19	1.24 H	350	13.10	30.71
2	*2412.00	101.26 PK			1.24 H	350	70.46	30.80
2	*2412.00	93.33 AV			1.24 H	350	62.53	30.80
3	4824.00	52.34 PK	74.00	-21.66	1.13 H	349	15.76	36.58
3	4824.00	47.93 AV	54.00	-6.07	1.13 H	349	11.35	36.58
4	9648.00	51.93 PK	74.00	-22.07	1.16 H	229	9.81	42.12
4	9648.00	43.59 AV	54.00	-10.41	1.16 H	229	1.47	42.12

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	52.94 PK	74.00	-21.06	1.14 V	325	22.23	30.71
1	2390.00	44.66 AV	54.00	-9.34	1.14 V	325	13.95	30.71
2	*2412.00	105.72 PK			1.14 V	325	74.92	30.80
2	*2412.00	98.33 AV			1.14 V	325	67.53	30.80
3	4824.00	52.05 PK	74.00	-21.95	1.17 V	190	15.47	36.58
3	4824.00	46.48 AV	54.00	-7.52	1.17 V	190	9.90	36.58
4	9648.00	52.07 PK	74.00	-21.93	1.18 V	200	9.95	42.12
4	9648.00	44.08 AV	54.00	-9.92	1.18 V	200	1.96	42.12

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	TEST MODE	2
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	94.40 PK			1.02 H	349	63.80	30.90
1	*2437.00	69.60 AV			1.02 H	349	48.70	30.90
2	4874.00	52.63 PK	74.00	-21.37	1.20 H	298	15.87	36.76
2	4874.00	46.77 AV	54.00	-7.23	1.20 H	298	10.01	36.76
3	9748.00	48.40 PK	74.00	-25.60	1.12 H	323	10.06	38.34
3	9748.00	40.71 AV	54.00	-13.29	1.12 H	323	2.37	38.34

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	109.29 PK			1.10 V	254	78.39	30.90
1	*2437.00	101.70 AV			1.10 V	254	70.80	30.90
2	4874.00	52.10 PK	74.00	-21.90	1.20 V	350	15.34	36.76
2	4874.00	44.01 AV	54.00	-9.99	1.20 V	350	7.25	36.76
3	9748.00	48.21 PK	74.00	-25.79	1.10 V	350	9.87	38.34
3	9748.00	38.45 AV	54.00	-15.55	1.10 V	350	0.11	38.34

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	2
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	100.17 PK			1.14 H	280	69.09	31.08
1	*2462.00	92.86 AV			1.14 H	280	61.78	31.08
2	2487.00	52.11 PK	74.00	-21.89	1.14 H	280	20.93	31.18
2	2487.00	41.21 AV	54.00	-12.79	1.14 H	280	10.03	31.18
3	4924.00	49.68 PK	74.00	-24.32	1.25 H	350	12.88	36.80
3	4924.00	44.20 AV	54.00	-9.80	1.25 H	350	7.40	36.80
4	9848.00	45.68 PK	74.00	-28.32	1.10 H	140	8.69	36.99
4	9848.00	37.50 AV	54.00	-16.50	1.10 H	140	0.51	36.99

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	104.23 PK			1.11 V	300	73.15	31.08
1	*2462.00	97.17 AV			1.11 V	300	66.09	31.08
2	2487.00	51.27 PK	74.00	-22.73	1.11 V	300	20.09	31.18
2	2487.00	42.34 AV	54.00	-11.66	1.11 V	300	11.16	31.18
3	4924.00	51.27 PK	74.00	-22.73	1.10 V	260	14.47	36.80
3	4924.00	44.97 AV	54.00	-9.03	1.10 V	260	8.17	36.80
4	9848.00	44.11 PK	74.00	-29.89	1.20 V	352	7.12	36.99
4	9848.00	34.23 AV	54.00	-19.77	1.20 V	352	-2.76	36.99

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	TEST MODE	3
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	2374.00	52.80 PK	74.00	-21.20	1.00 H	65	22.15	30.65
1	2374.00	43.33 AV	54.00	-10.67	1.00 H	65	12.68	30.65
2	*2412.00	92.87 PK			1.00 H	65	62.07	30.80
2	*2412.00	85.64 AV			1.00 H	65	54.84	30.80
3	4824.00	52.46 PK	74.00	-21.54	1.00 H	350	15.88	36.58
3	4824.00	48.58 AV	54.00	-5.42	1.00 H	350	12.00	36.58
4	9648.00	51.08 PK	74.00	-22.92	1.00 H	296	8.96	42.12
4	9648.00	43.02 AV	54.00	-10.98	1.00 H	296	0.90	42.12

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	2374.00	58.05 PK	74.00	-15.95	1.09 V	153	27.40	30.65
1	2374.00	47.17 AV	54.00	-6.83	1.09 V	153	16.52	30.65
2	*2412.00	111.98 PK			1.09 V	153	81.18	30.80
2	*2412.00	103.95 AV			1.09 V	153	73.15	30.80
3	4824.00	51.61 PK	74.00	-22.39	1.16 V	214	15.03	36.58
3	4824.00	47.75 AV	54.00	-6.25	1.16 V	214	11.17	36.58
4	9648.00	51.77 PK	74.00	-22.23	1.04 V	238	9.65	42.12
4	9648.00	42.73 AV	54.00	-11.27	1.04 V	238	0.61	42.12

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	TEST MODE	3
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	97.13 PK			1.02 H	300	66.23	30.90
1	*2437.00	89.19 AV			1.02 H	300	58.29	30.90
2	4874.00	55.20 PK	74.00	-18.80	1.00 H	320	18.44	36.76
2	4874.00	48.62 AV	54.00	-5.38	1.00 H	320	11.86	36.76
3	9748.00	48.21 PK	74.00	-25.79	1.01 H	333	9.87	38.34
3	9748.00	41.01 AV	54.00	-12.99	1.01 H	333	2.67	38.34

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	*2374.00	115.57 PK			1.10 V	325	84.92	30.65
1	*2374.00	107.74 AV			1.10 V	325	77.09	30.65
2	4874.00	55.24 PK	74.00	-18.76	1.08 V	330	18.48	36.76
2	4874.00	45.91 AV	54.00	-8.09	1.08 V	330	9.15	36.76
3	9748.00	49.21 PK	74.00	-24.79	1.12 V	324	10.87	38.34
3	9748.00	39.01 AV	54.00	-14.99	1.12 V	324	0.67	38.34

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	3
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	91.26 PK			1.20 H	300	60.27	30.99
1	*2462.00	84.15 AV			1.20 H	300	53.16	30.99
2	2500.00	48.36 PK	74.00	-25.64	1.20 H	300	17.22	31.14
2	2500.00	42.36 AV	54.00	-11.64	1.20 H	300	11.22	31.14
3	4924.00	51.01 PK	74.00	-22.99	1.21 H	298	14.04	36.97
3	4924.00	44.80 AV	54.00	-9.20	1.21 H	298	7.83	36.97
4	9848.00	47.25 PK	74.00	-26.75	1.10 H	342	12.11	35.14
4	9848.00	38.10 AV	54.00	-15.90	1.10 H	342	2.96	35.14

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	110.12 PK			1.05 V	340	79.13	30.99
1	*2462.00	102.34 AV			1.05 V	340	71.35	30.99
2	2500.00	56.38 PK	74.00	-17.62	1.05 V	239	25.24	31.14
2	2500.00	47.86 AV	54.00	-6.14	1.05 V	239	16.72	31.14
3	4924.00	52.13 PK	74.00	-21.87	1.10 V	290	15.16	36.97
3	4924.00	45.96 AV	54.00	-8.04	1.10 V	290	8.99	36.97
4	9848.00	45.62 PK	74.00	-28.38	1.09 V	300	10.48	35.14
4	9848.00	35.36 AV	54.00	-18.64	1.09 V	300	0.22	35.14

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	TEST MODE	4
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	2387.00	51.97 PK	74.00	-22.03	1.12 H	20	21.27	30.70
1	2387.00	44.04 AV	54.00	-9.96	1.12 H	20	13.34	30.70
2	*2412.00	100.15 PK			1.12 H	20	69.35	30.80
2	*2412.00	92.73 AV			1.12 H	20	61.93	30.80
3	4824.00	53.52 PK	74.00	-20.48	1.00 H	2	16.94	36.58
3	4824.00	49.59 AV	54.00	-4.41	1.00 H	2	13.01	36.58
4	9648.00	52.25 PK	74.00	-21.75	1.02 H	318	10.13	42.12
4	9648.00	43.31 AV	54.00	-10.69	1.02 H	318	1.19	42.12

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	1056.00	39.85 PK	74.00	-34.15	1.00 V	324	13.22	26.63
1	1056.00	33.83 AV	54.00	-20.17	1.00 V	324	7.20	26.63
2	2387.00	61.77 PK	74.00	-12.23	1.12 V	346	31.07	30.70
2	2387.00	52.59 AV	54.00	-1.41	1.12 V	346	21.89	30.70
3	*2412.00	118.25 PK			1.12 V	346	87.45	30.80
3	*2412.00	109.32 AV			1.12 V	346	78.52	30.80
4	4824.00	52.55 PK	74.00	-21.45	1.09 V	354	15.97	36.58
4	4824.00	48.23 AV	54.00	-5.77	1.09 V	354	11.65	36.58
5	9648.00	52.21 PK	74.00	-21.79	1.03 V	33	10.09	42.12
5	9648.00	43.09 AV	54.00	-10.91	1.03 V	33	0.97	42.12

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	TEST MODE	4
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	104.33 PK			1.07 H	299	73.43	30.90
1	*2437.00	96.54 AV			1.07 H	299	65.64	30.90
2	4874.00	54.19 PK	74.00	-19.81	1.00 H	1	17.43	36.76
2	4874.00	48.12 AV	54.00	-5.88	1.00 H	1	11.36	36.76
3	9748.00	48.32 PK	74.00	-25.68	1.00 H	333	9.98	38.34
3	9748.00	40.55 AV	54.00	-13.45	1.00 H	333	2.21	38.34

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	122.69 PK			1.11 V	345	91.79	30.90
1	*2437.00	114.90 AV			1.11 V	345	84.00	30.90
2	4874.00	54.29 PK	74.00	-19.71	1.10 V	344	17.53	36.76
2	4874.00	45.59 AV	54.00	-8.41	1.10 V	344	8.83	36.76
3	9748.00	48.46 PK	74.00	-25.54	1.11 V	52	10.12	38.34
3	9748.00	38.70 AV	54.00	-15.30	1.11 V	52	0.36	38.34

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	4
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	99.50 PK			1.40 H	360	68.51	30.99
1	*2462.00	91.73 AV			1.40 H	360	60.74	30.99
2	2487.00	51.97 PK	74.00	-22.03	1.40 H	360	20.88	31.09
2	2487.00	43.93 AV	54.00	-10.07	1.40 H	360	12.84	31.09
3	4924.00	50.06 PK	74.00	-23.94	1.29 H	329	13.08	36.97
3	4924.00	44.62 AV	54.00	-9.38	1.29 H	329	7.64	36.97
4	9848.00	46.16 PK	74.00	-27.84	1.01 H	351	11.02	35.14
4	9848.00	37.60 AV	54.00	-16.40	1.01 H	351	2.46	35.14

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	117.58 PK			1.10 V	346	86.59	30.99
1	*2462.00	109.67 AV			1.10 V	346	78.68	30.99
2	2487.00	62.82 PK	74.00	-11.18	1.10 V	346	31.73	31.09
2	2487.00	52.98 AV	54.00	-1.02	1.10 V	346	21.89	31.09
3	4924.00	51.94 PK	74.00	-22.06	1.06 V	351	14.96	36.97
3	4924.00	45.28 AV	54.00	-8.72	1.06 V	351	8.30	36.97
4	9848.00	44.67 PK	74.00	-29.33	1.00 V	329	9.53	35.14
4	9848.00	34.97 AV	54.00	-19.03	1.00 V	329	-0.17	35.14

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

802.11g OFDM modulation

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 1	TEST MODE	1
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	53.47 PK	74.00	-20.53	1.11 H	311	22.68	30.79
1	2390.00	43.59 AV	54.00	-10.41	1.11 H	311	12.80	30.79
2	*2412.00	95.87 PK			1.11 H	311	64.99	30.88
2	*2412.00	86.57 AV			1.11 H	311	55.69	30.88
3	4824.00	53.05 PK	74.00	-20.95	1.00 H	298	16.60	36.45
3	4824.00	49.21 AV	54.00	-4.79	1.00 H	298	12.76	36.45
4	9648.00	52.20 PK	74.00	-21.80	1.01 H	310	8.43	43.77
4	9648.00	43.89 AV	54.00	-10.11	1.01 H	310	0.12	43.77

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	62.86 PK	74.00	-11.14	1.10 V	300	32.07	30.79
1	2390.00	52.41 AV	54.00	-1.59	1.10 V	300	21.62	30.79
2	*2412.00	112.89 PK			1.10 V	300	82.01	30.88
2	*2412.00	103.46 AV			1.10 V	300	72.58	30.88
3	4824.00	52.04 PK	74.00	-21.96	1.13 V	310	15.59	36.45
3	4824.00	47.86 AV	54.00	-6.14	1.13 V	310	11.41	36.45
4	9648.00	52.10 PK	74.00	-21.90	1.01 V	344	8.33	43.77
4	9648.00	43.91 AV	54.00	-10.09	1.01 V	344	0.14	43.77

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

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 6	TEST MODE	1
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	101.59 PK			1.10 H	354	70.61	30.98
1	*2437.00	92.34 AV			1.10 H	354	61.36	30.98
2	4874.00	53.41 PK	74.00	-20.59	1.01 H	360	16.80	36.61
2	4874.00	48.61 AV	54.00	-5.39	1.01 H	360	12.00	36.61
3	9748.00	48.37 PK	74.00	-25.63	1.00 H	360	8.28	40.09
3	9748.00	40.24 AV	54.00	-13.76	1.00 H	360	0.15	40.09

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	120.10 PK			1.10 V	300	89.12	30.98
1	*2437.00	110.51 AV			1.10 V	300	79.53	30.98
2	4874.00	53.10 PK	74.00	-20.90	1.00 V	250	16.49	36.61
2	4874.00	47.42 AV	54.00	-6.58	1.00 V	250	10.81	36.61
3	9748.00	47.68 PK	74.00	-26.32	1.09 V	340	7.59	40.09
3	9748.00	38.47 AV	54.00	-15.53	1.09 V	340	-1.62	40.09

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

EUT	Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565B
CHANNEL	Channel 11	TEST MODE	1
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	93.74 PK			1.09 H	350	62.66	31.08
1	*2462.00	84.76 AV			1.09 H	350	53.68	31.08
2	2487.00	53.10 PK	74.00	-20.90	1.09 H	350	21.92	31.18
2	2487.00	44.09 AV	54.00	-9.91	1.09 H	350	12.91	31.18
3	4924.00	50.34 PK	74.00	-23.66	1.11 H	354	13.54	36.80
3	4924.00	46.05 AV	54.00	-7.95	1.11 H	354	9.25	36.80
4	9848.00	45.31 PK	74.00	-28.69	1.01 H	12	8.32	36.99
4	9848.00	36.41 AV	54.00	-17.59	1.01 H	12	-0.58	36.99

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	111.44 PK			1.11 V	345	80.36	31.08
1	*2462.00	102.20 AV			1.11 V	345	71.12	31.08
2	2487.00	64.21 PK	74.00	-9.79	1.11 V	345	33.03	31.18
2	2487.00	52.34 AV	54.00	-1.66	1.11 V	345	21.16	31.18
3	4924.00	51.23 PK	74.00	-22.77	1.13 V	10	14.43	36.80
3	4924.00	45.51 AV	54.00	-8.49	1.13 V	10	8.71	36.80
4	9848.00	44.82 PK	74.00	-29.18	1.21 V	332	7.83	36.99
4	9848.00	35.07 AV	54.00	-18.93	1.21 V	332	-1.92	36.99

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	TEST MODE	2
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	52.69 PK	74.00	-21.31	1.10 H	333	21.90	30.79
1	2390.00	43.12 AV	54.00	-10.88	1.10 H	333	12.33	30.79
2	*2412.00	95.12 PK			1.10 H	333	64.24	30.88
2	*2412.00	85.41 AV			1.10 H	333	54.53	30.88
3	4824.00	51.30 PK	74.00	-22.70	1.01 H	340	14.85	36.45
3	4824.00	47.23 AV	54.00	-6.77	1.01 H	340	10.78	36.45
4	9648.00	53.00 PK	74.00	-21.00	1.21 H	200	9.23	43.77
4	9648.00	43.56 AV	54.00	-10.44	1.21 H	200	-0.21	43.77

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	57.62 PK	74.00	-16.38	1.14 V	310	26.91	30.71
1	2390.00	47.01 AV	54.00	-6.99	1.14 V	310	16.30	30.71
2	*2412.00	99.76 PK			1.14 V	310	68.96	30.80
2	*2412.00	90.63 AV			1.14 V	310	59.83	30.80
3	4824.00	50.26 PK	74.00	-23.74	1.10 V	341	13.68	36.58
3	4824.00	46.38 AV	54.00	-7.62	1.10 V	341	9.80	36.58
4	9648.00	53.20 PK	74.00	-20.80	1.01 V	12	11.08	42.12
4	9648.00	44.10 AV	54.00	-9.90	1.01 V	12	1.98	42.12

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	TEST MODE	2
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	100.10 PK			1.11 H	200	69.20	30.90
1	*2437.00	91.28 AV			1.11 H	200	60.38	30.90
2	4874.00	51.60 PK	74.00	-22.40	1.01 H	300	14.84	36.76
2	4874.00	46.38 AV	54.00	-7.62	1.01 H	300	9.62	36.76
3	9748.00	47.56 PK	74.00	-26.44	1.00 H	354	9.22	38.34
3	9748.00	39.39 AV	54.00	-14.61	1.00 H	354	1.05	38.34

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	106.86 PK			1.18 V	360	75.96	30.90
1	*2437.00	106.95 AV			1.18 V	360	76.05	30.90
2	4874.00	51.39 PK	74.00	-22.61	1.11 V	290	14.63	36.76
2	4874.00	45.28 AV	54.00	-8.72	1.11 V	290	8.52	36.76
3	9748.00	47.50 PK	74.00	-26.50	1.10 V	10	9.16	38.34
3	9748.00	37.56 AV	54.00	-16.44	1.10 V	10	-0.78	38.34

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	2
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	92.14 PK			1.11 H	350	61.15	30.99
1	*2462.00	83.60 AV			1.11 H	350	52.61	30.99
2	2483.50	50.77 PK	74.00	-23.23	1.11 H	350	19.70	31.07
2	2483.50	41.04 AV	54.00	-12.96	1.11 H	350	9.97	31.07
3	4924.00	48.25 PK	74.00	-25.75	1.01 H	299	11.28	36.97
3	4924.00	44.38 AV	54.00	-9.62	1.01 H	299	7.41	36.97
4	9848.00	44.68 PK	74.00	-29.32	1.01 H	10	9.54	35.14
4	9848.00	36.70 AV	54.00	-17.30	1.01 H	10	1.56	35.14

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	98.53 PK			1.01 V	354	67.54	30.99
1	*2462.00	89.11 AV			1.01 V	354	58.12	30.99
2	2483.50	59.87 PK	74.00	-14.13	1.01 V	354	28.80	31.07
2	2483.50	48.08 AV	54.00	-5.92	1.01 V	354	17.01	31.07
3	4924.00	49.68 PK	74.00	-24.32	1.12 V	10	12.71	36.97
3	4924.00	43.70 AV	54.00	-10.30	1.12 V	10	6.73	36.97
4	9848.00	46.10 PK	74.00	-27.90	1.11 V	300	10.96	35.14
4	9848.00	36.50 AV	54.00	-17.50	1.11 V	300	1.36	35.14

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	TEST MODE	3
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	47.17 PK	74.00	-26.83	1.10 H	340	16.46	30.71
1	2390.00	37.60 AV	54.00	-16.40	1.10 H	340	6.89	30.71
2	*2412.00	89.04 PK			1.10 H	340	58.24	30.80
2	*2412.00	79.80 AV			1.10 H	340	49.00	30.80
3	4824.00	54.12 PK	74.00	-19.88	1.14 H	32	17.54	36.58
3	4824.00	49.80 AV	54.00	-4.20	1.14 H	32	13.22	36.58
4	9648.00	52.17 PK	74.00	-21.83	1.00 H	360	10.05	42.12
4	9648.00	44.68 AV	54.00	-9.32	1.00 H	360	2.56	42.12

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	55.98 PK	74.00	-18.02	1.08 V	141	25.27	30.71
1	2390.00	45.43 AV	54.00	-8.57	1.08 V	141	14.72	30.71
2	*2412.00	106.93 PK			1.08 V	141	76.13	30.80
2	*2412.00	97.51 AV			1.08 V	141	66.71	30.80
3	4824.00	52.68 PK	74.00	-21.32	1.10 V	320	16.10	36.58
3	4824.00	48.75 AV	54.00	-5.25	1.10 V	320	12.17	36.58
4	9648.00	52.79 PK	74.00	-21.21	1.20 V	310	10.67	42.12
4	9648.00	44.71 AV	54.00	-9.29	1.20 V	310	2.59	42.12

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	TEST MODE	3
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	94.61 PK			1.30 H	15	63.71	30.90
1	*2437.00	56.22 AV			1.30 H	15	25.32	30.90
2	4874.00	54.28 PK	74.00	-19.72	1.11 H	340	17.52	36.76
2	4874.00	49.32 AV	54.00	-4.68	1.11 H	340	12.56	36.76
3	9748.00	49.61 PK	74.00	-24.39	1.20 H	13	11.27	38.34
3	9748.00	41.41 AV	54.00	-12.59	1.20 H	13	3.07	38.34

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	113.20 PK			1.11 V	312	82.30	30.90
1	*2437.00	103.57 AV			1.11 V	312	72.67	30.90
2	4874.00	54.18 PK	74.00	-19.82	1.05 V	300	17.42	36.76
2	4874.00	48.50 AV	54.00	-5.50	1.05 V	300	11.74	36.76
3	9748.00	48.29 PK	74.00	-25.71	1.10 V	340	9.95	38.34
3	9748.00	39.12 AV	54.00	-14.88	1.10 V	340	0.78	38.34

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	3
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	89.20 PK			1.10 H	182	58.21	30.99
1	*2462.00	80.01 AV			1.10 H	182	49.02	30.99
2	2483.50	48.32 PK	74.00	-25.68	1.10 H	182	17.25	31.07
2	2483.50	39.60 AV	54.00	-14.40	1.10 H	182	8.53	31.07
3	4924.00	51.36 PK	74.00	-22.64	1.11 H	180	14.39	36.97
3	4924.00	47.25 AV	54.00	-6.75	1.11 H	180	10.28	36.97
4	9848.00	46.70 PK	74.00	-27.30	1.20 H	300	11.56	35.14
4	9848.00	37.12 AV	54.00	-16.88	1.20 H	300	1.98	35.14

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	106.39 PK			1.08 V	191	75.40	30.99
1	*2462.00	97.09 AV			1.08 V	191	66.10	30.99
2	2483.50	57.11 PK	74.00	-16.89	1.08 V	191	26.04	31.07
2	2483.50	47.55 AV	54.00	-6.45	1.08 V	191	16.48	31.07
3	4924.00	50.09 PK	74.00	-23.91	1.00 V	180	13.11	36.97
3	4924.00	44.76 AV	54.00	-9.24	1.00 V	180	7.78	36.97
4	9848.00	44.90 PK	74.00	-29.10	1.13 V	329	9.76	35.14
4	9848.00	35.47 AV	54.00	-18.53	1.13 V	329	0.33	35.14

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 1	TEST MODE	4
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	53.54 PK	74.00	-20.46	1.11 H	313	22.83	30.71
1	2390.00	43.80 AV	54.00	-10.20	1.11 H	313	13.09	30.71
2	*2412.00	96.16 PK			1.11 H	313	65.36	30.80
2	*2412.00	86.79 AV			1.11 H	313	55.99	30.80
3	4824.00	53.28 PK	74.00	-20.72	1.02 H	348	16.70	36.58
3	4824.00	49.51 AV	54.00	-4.49	1.02 H	348	12.93	36.58
4	9648.00	52.38 PK	74.00	-21.62	1.00 H	300	10.26	42.12
4	9648.00	44.11 AV	54.00	-9.89	1.00 H	300	1.99	42.12

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	63.08 PK	74.00	-10.92	1.12 V	346	32.37	30.71
1	2390.00	52.62 AV	54.00	-1.38	1.12 V	346	21.91	30.71
2	*2412.00	113.16 PK			1.12 V	346	82.36	30.80
2	*2412.00	103.73 AV			1.12 V	346	72.93	30.80
3	4824.00	52.25 PK	74.00	-21.75	1.13 V	336	15.67	36.58
3	4824.00	48.07 AV	54.00	-5.93	1.13 V	336	11.49	36.58
4	9648.00	52.31 PK	74.00	-21.69	1.00 V	344	10.19	42.12
4	9648.00	44.05 AV	54.00	-9.95	1.00 V	344	1.93	42.12

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 6	TEST MODE	4
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	101.73 PK			1.13 H	19	70.83	30.90
1	*2437.00	92.45 AV			1.13 H	19	61.55	30.90
2	4874.00	53.62 PK	74.00	-20.38	1.00 H	355	16.86	36.76
2	4874.00	48.87 AV	54.00	-5.13	1.00 H	355	12.11	36.76
3	9748.00	48.59 PK	74.00	-25.41	1.00 H	1	10.25	38.34
3	9748.00	40.40 AV	54.00	-13.60	1.00 H	1	2.06	38.34

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	120.11 PK			1.11 V	313	89.21	30.90
1	*2437.00	110.77 AV			1.11 V	313	79.87	30.90
2	4874.00	53.23 PK	74.00	-20.77	1.06 V	8	16.47	36.76
2	4874.00	47.61 AV	54.00	-6.39	1.06 V	8	10.85	36.76
3	9748.00	48.01 PK	74.00	-25.99	1.09 V	346	9.67	38.34
3	9748.00	38.86 AV	54.00	-15.14	1.09 V	346	0.52	38.34

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

EUT	Indoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565
CHANNEL	Channel 11	TEST MODE	4
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	FREQUENCY RANGE	1~25 GHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 62% RH, 991 hPa	DETECTOR FUNCTION	Peak (PK) Average (AV)
TESTED BY	Match Tsui		

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	93.93 PK			1.12 H	20	62.94	30.99
1	*2462.00	84.95 AV			1.12 H	20	53.96	30.99
2	2483.50	53.17 PK	74.00	-20.83	1.12 H	20	22.10	31.07
2	2483.50	44.14 AV	54.00	-9.86	1.12 H	20	13.07	31.07
3	4924.00	50.58 PK	74.00	-23.42	1.00 H	349	13.60	36.97
3	4924.00	46.17 AV	54.00	-7.83	1.00 H	349	9.19	36.97
4	9848.00	45.59 PK	74.00	-28.41	1.05 H	331	10.45	35.14
4	9848.00	36.66 AV	54.00	-17.34	1.05 H	331	1.52	35.14

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	111.64 PK			1.03 V	347	80.65	30.99
1	*2462.00	102.32 AV			1.03 V	347	71.33	30.99
2	2483.50	64.33 PK	74.00	-9.67	1.03 V	347	33.26	31.07
2	2483.50	52.54 AV	54.00	-1.46	1.03 V	347	21.47	31.07
3	4924.00	51.57 PK	74.00	-22.43	1.18 V	7	14.59	36.97
3	4924.00	45.69 AV	54.00	-8.31	1.18 V	7	8.71	36.97
4	9848.00	45.09 PK	74.00	-28.91	1.17 V	331	9.95	35.14
4	9848.00	35.13 AV	54.00	-18.87	1.17 V	331	-0.01	35.14

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

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE:

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

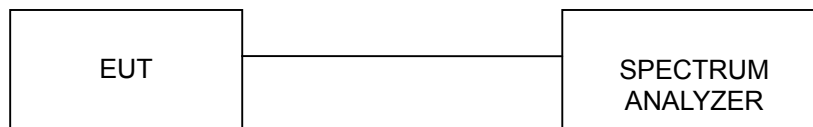
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

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.

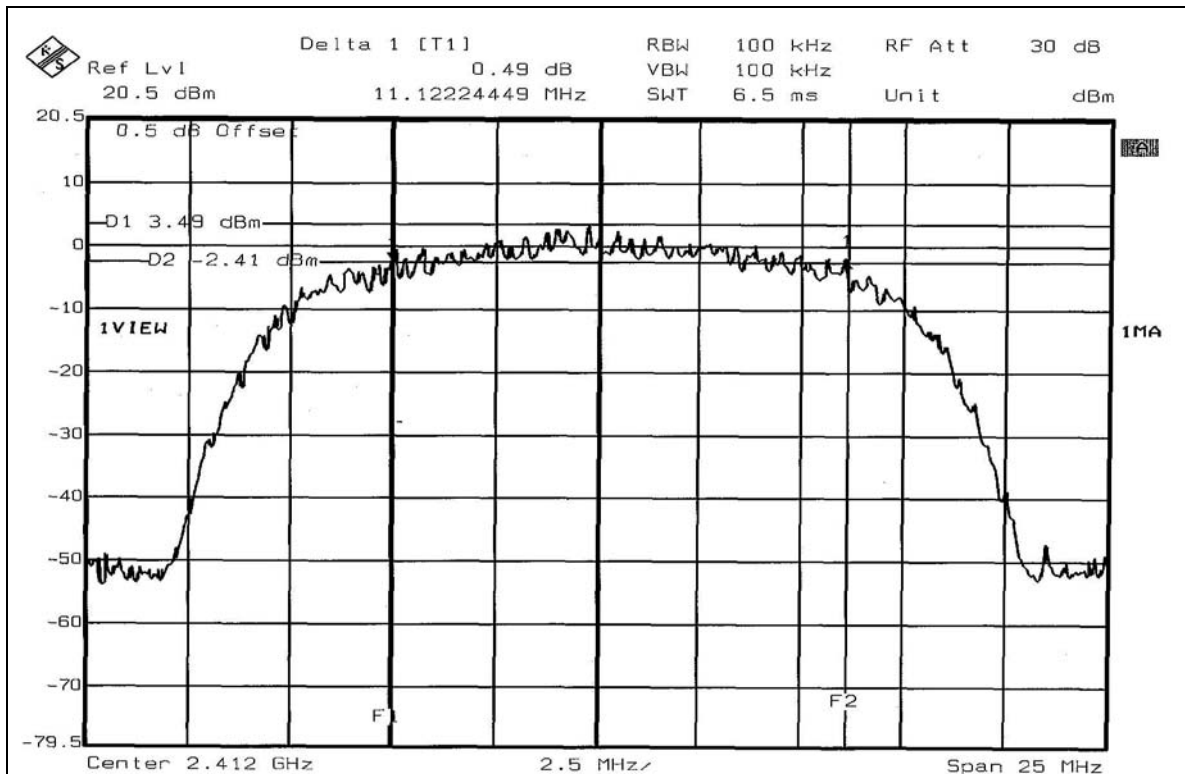
4.3.7 TEST RESULTS

802.11b DSSS modulation

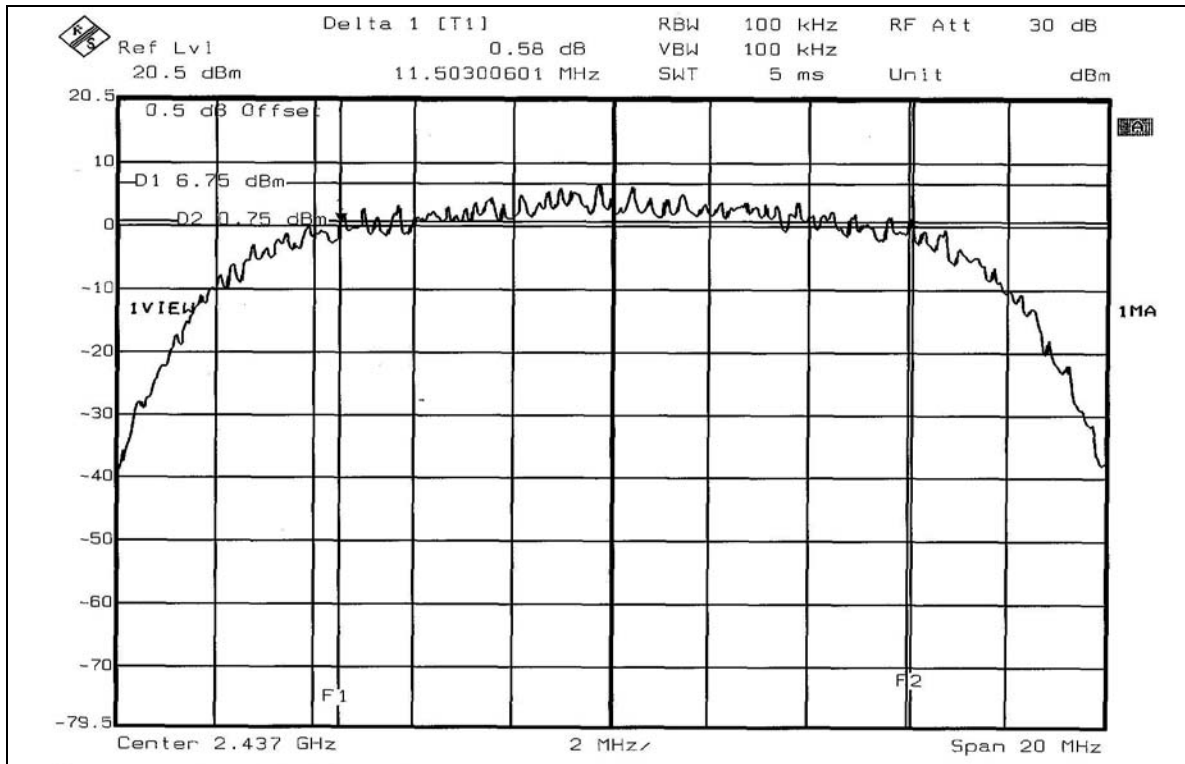
EUT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565, WL-565B
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.12	0.5	PASS
6	2437	11.50	0.5	PASS
11	2462	11.54	0.5	PASS

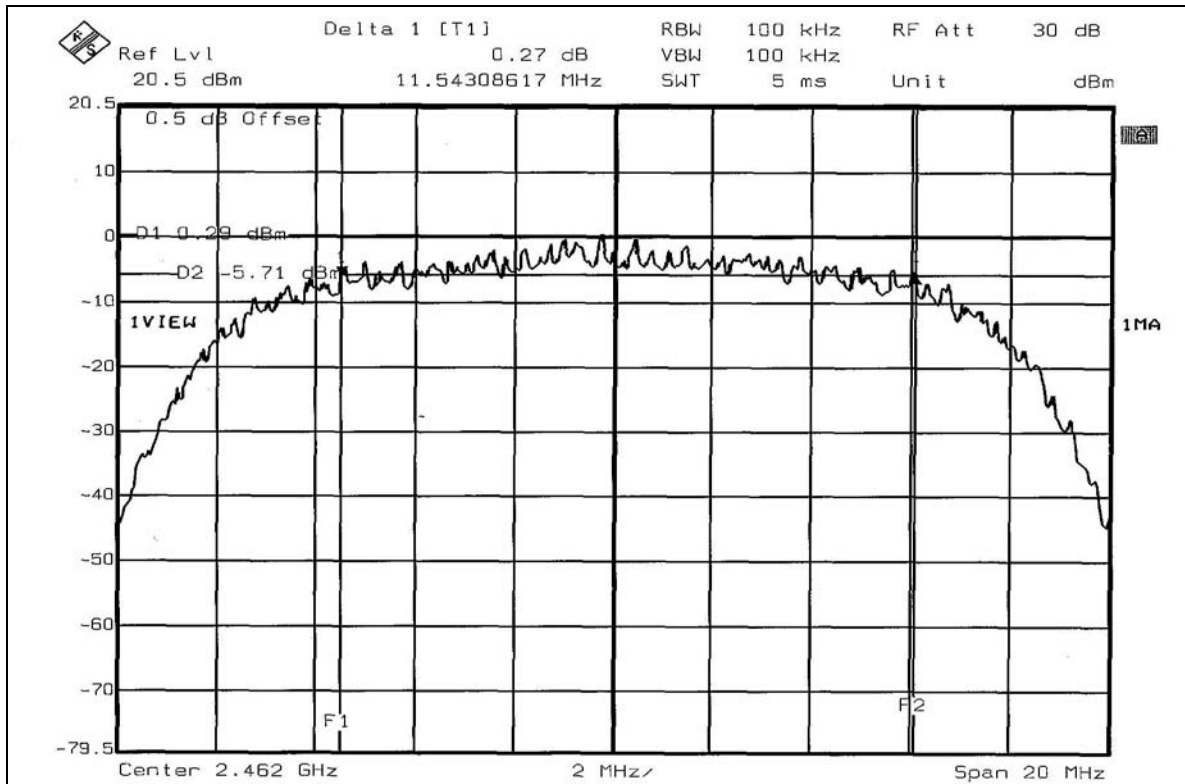
CH1



CH6



CH11

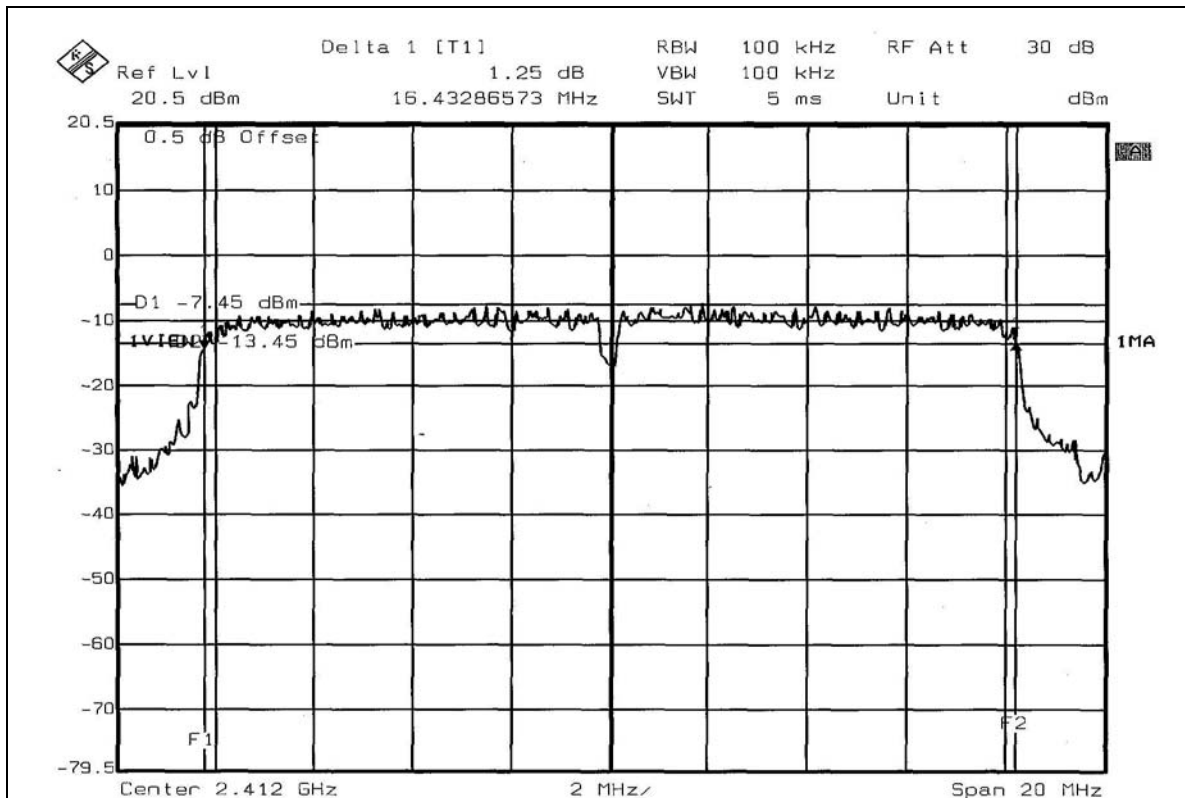


802.11g OFDM modulation

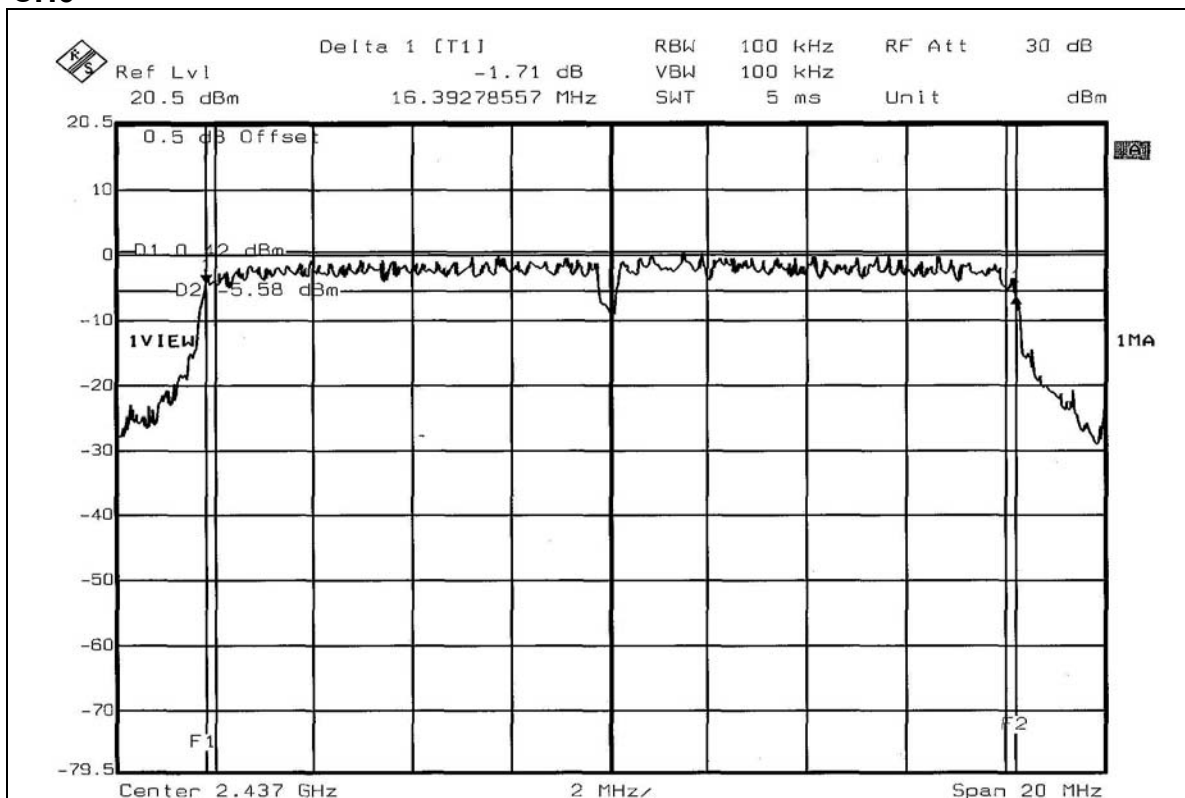
EUT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565, WL-565B
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.43	0.5	PASS
6	2437	16.39	0.5	PASS
11	2462	16.43	0.5	PASS

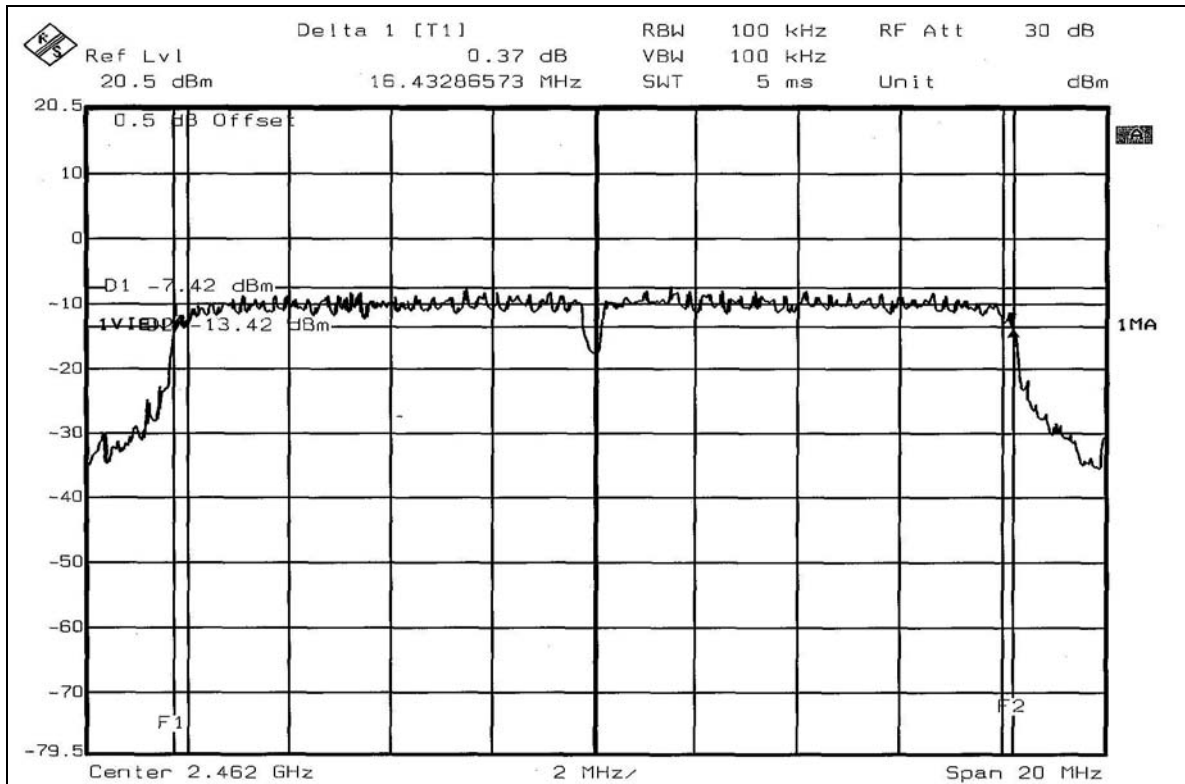
CH1



CH6



CH11



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 06, 2005
TEKTRONIX OSCILLOSCOPE	TDS 220	C019167	Feb. 01, 2005
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

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

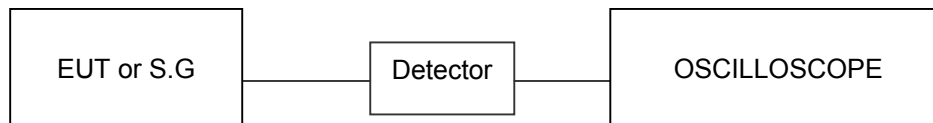
4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G. was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

802.11b DSSS modulation

EUT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565, WL-565B
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	12.531	10.98	18	PASS
6	2437	49.888	16.98	18	PASS
11	2462	12.589	11.00	18	PASS

Note: According to 15.247 (b) (4), the maximum antenna gain 18.0dBi is higher than 6dBi, so the limit of peak power should be reduced by 12dBi.

802.11g OFDM modulation

EUT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565, WL-565B
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	8.241	9.16	18	PASS
6	2437	50.816	17.06	18	PASS
11	2462	8.072	9.07	18	PASS

Note: According to 15.247(b) (4), the maximum antenna gain 18.0dBi is higher than 6dBi, so the limit of peak power should be reduced by 12dBi.

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 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE:

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

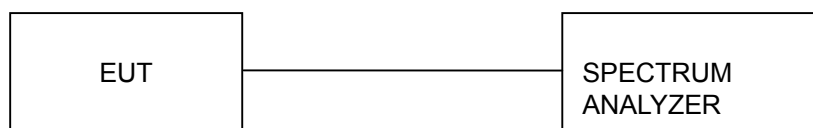
4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time=span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6

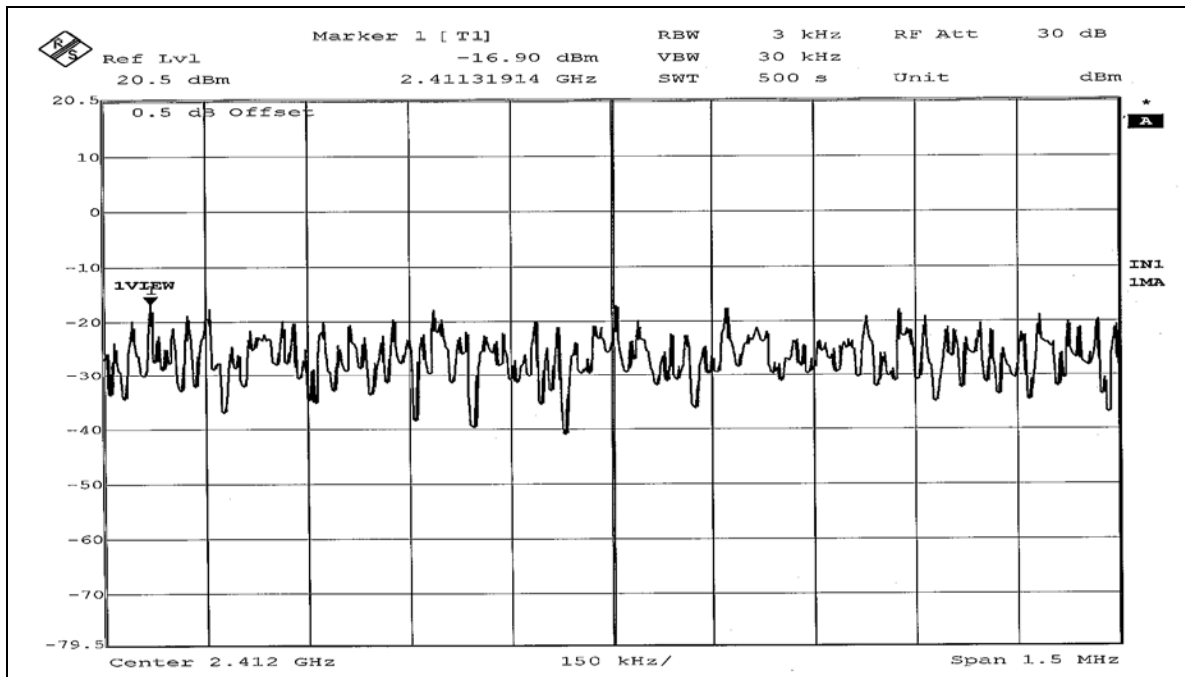
4.5.7 TEST RESULTS

802.11b DSSS modulation

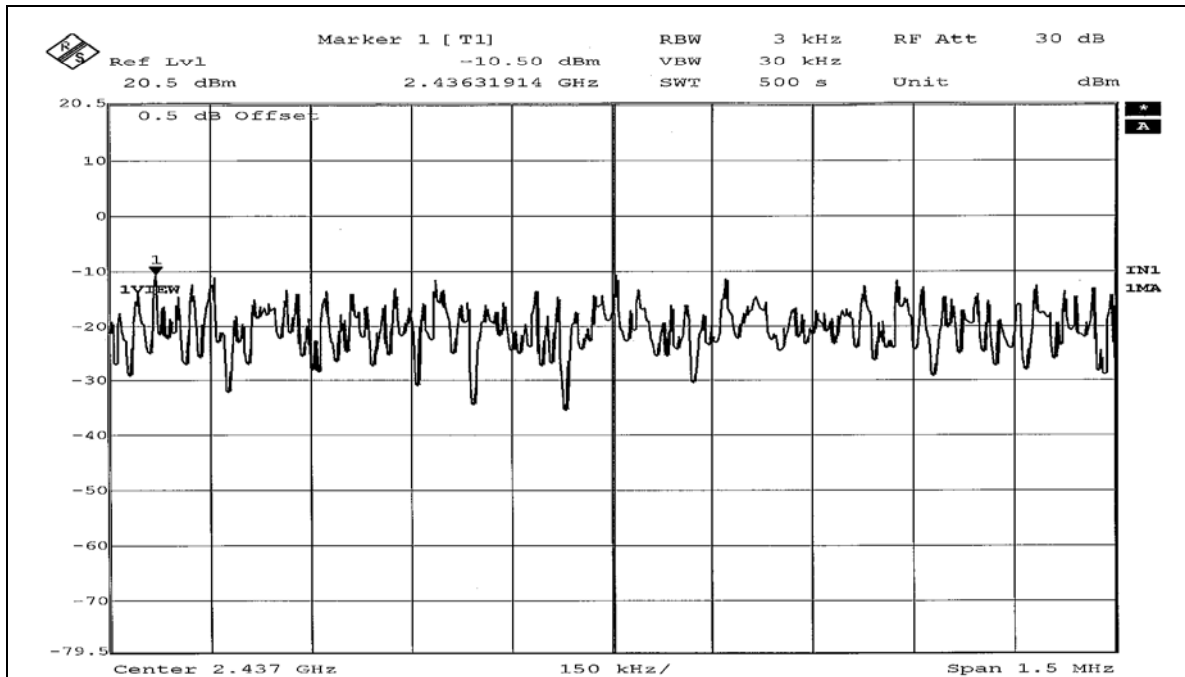
EUT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565, WL-565B
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-16.90	8	PASS
6	2437	-10.50	8	PASS
11	2462	-16.31	8	PASS

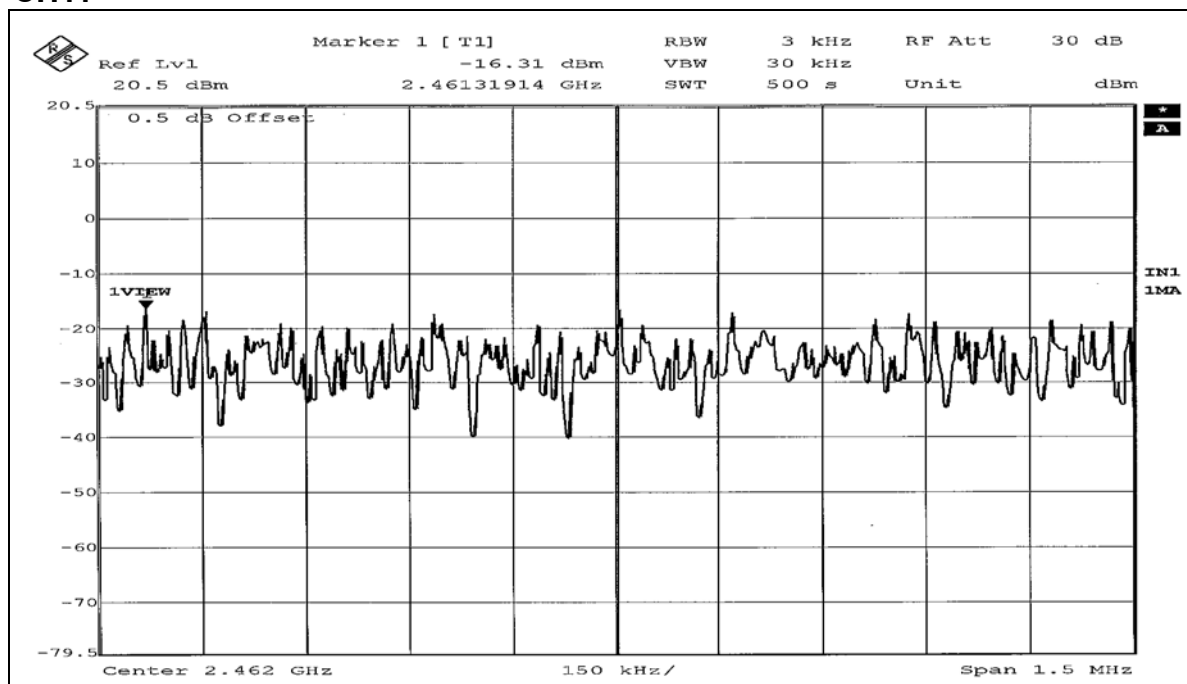
CH1



CH6



CH11

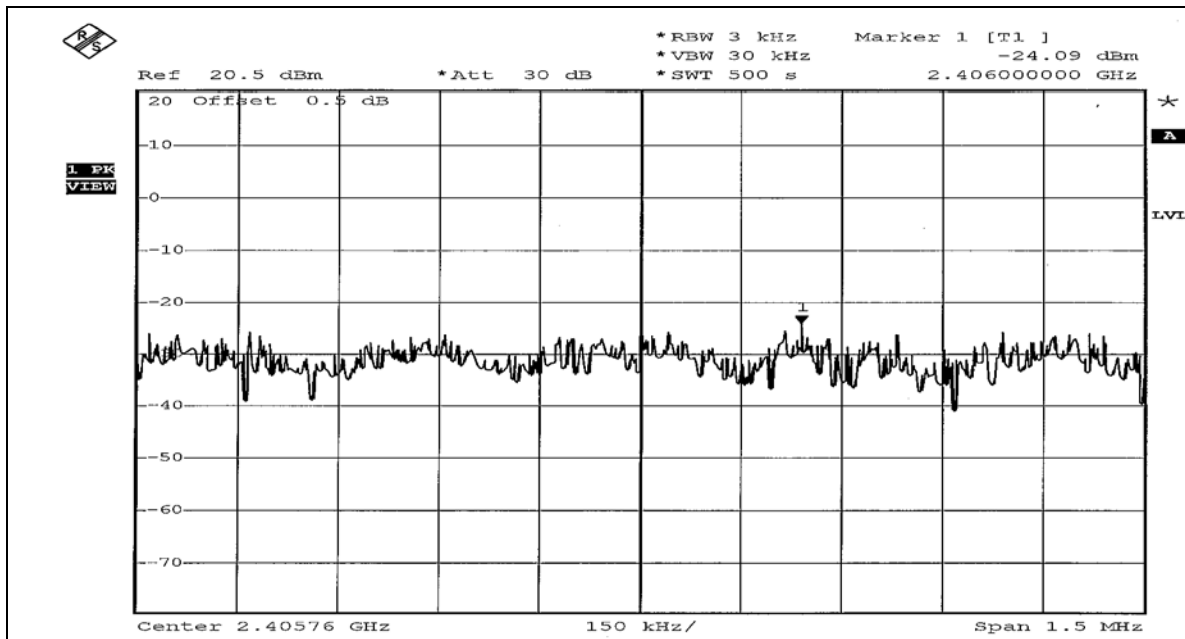


802.11g OFDM modulation

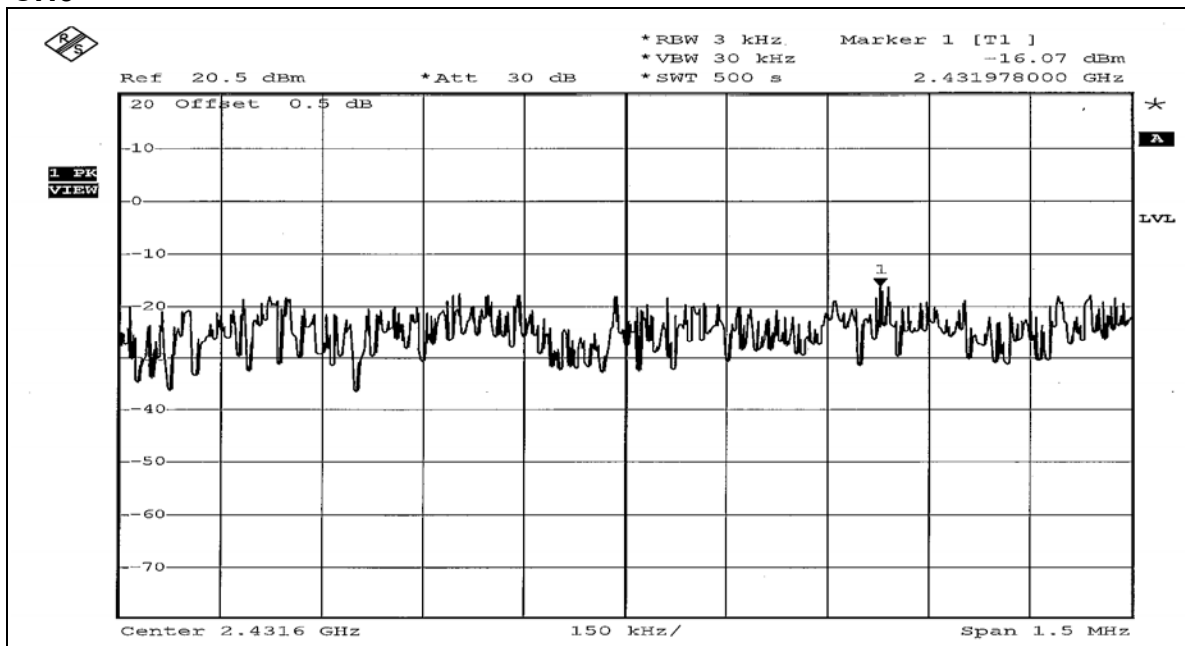
EUT	Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge	MODEL	WL-565, WL-565B
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120 Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 64% RH, 991 hPa
TESTED BY	Leo Hung		

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3KHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-24.09	8	PASS
6	2437	-16.07	8	PASS
11	2462	-24.58	8	PASS

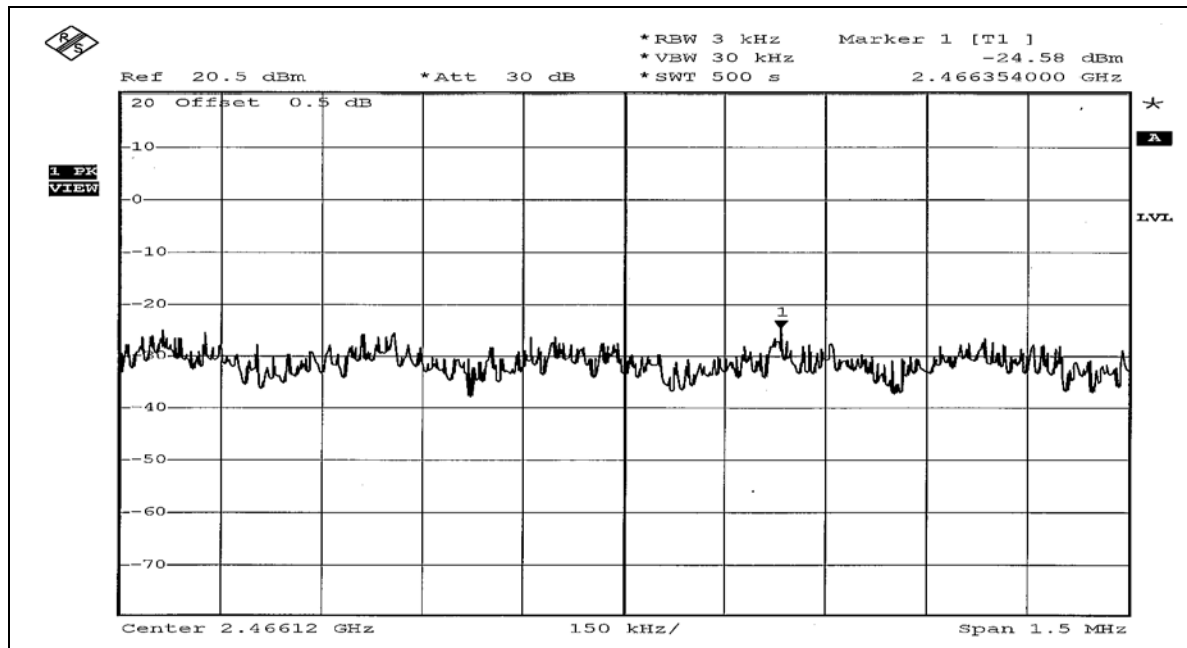
CH1



CH6



CH11



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2005

NOTE:

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

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 1MHz and 10Hz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS modulation

NOTE 1: The band edge emission plot on page 92 show 54.45dBc delta between carrier maximum power and local maximum emission in restrict band (2.3875GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 118.31dBuV/m (Peak), so the maximum field strength in restrict band is $118.31 - 54.45 = 63.86$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 92 show 56.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.3871GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.40dBuV/m (Average), so the maximum field strength in restrict band is $109.40 - 56.23 = 53.17$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the page 93 show 53.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4861GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 117.58dBuV/m (Peak), so the maximum field strength in restrict band is $117.58 - 53.03 = 64.55$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 94 show 56.60dBc delta between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.67dBuV/m (Average), so the maximum field strength in restrict band is $109.67 - 56.60 = 53.07$ dBuV/m which is under 54dBuV/m limit.

4.6.7 TEST RESULTS(B)

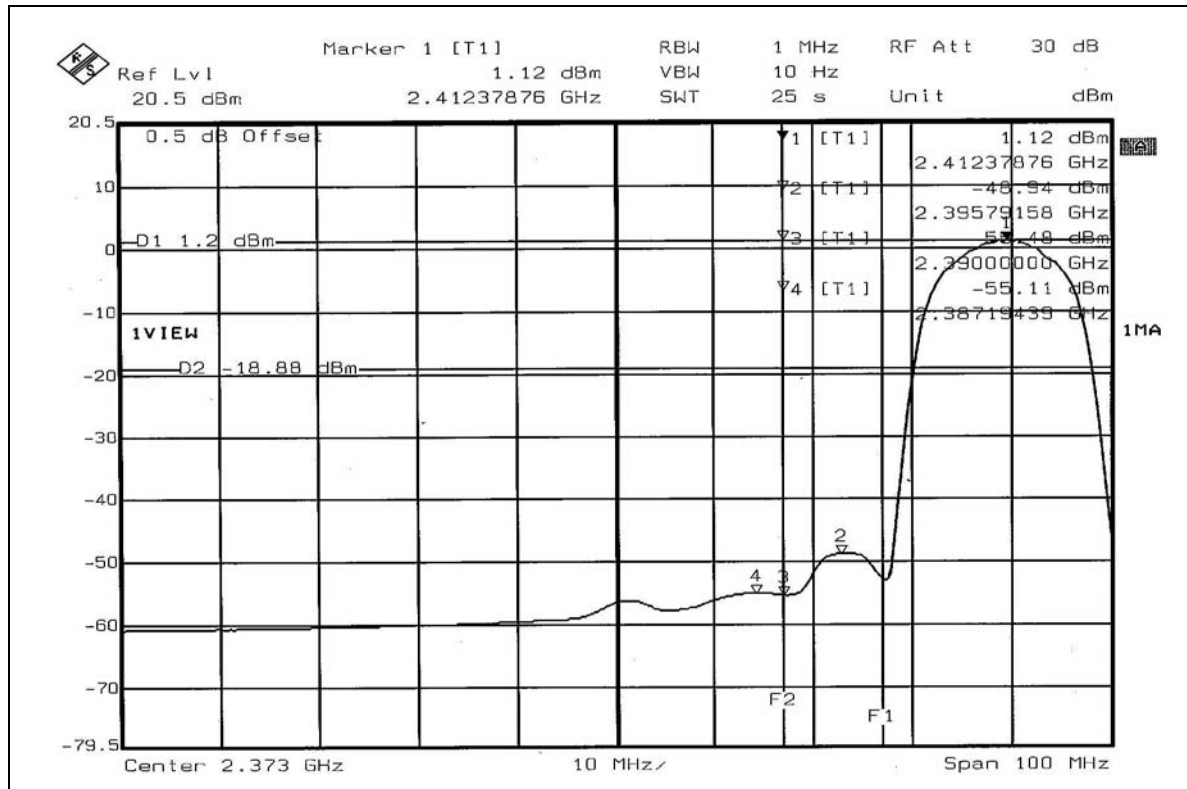
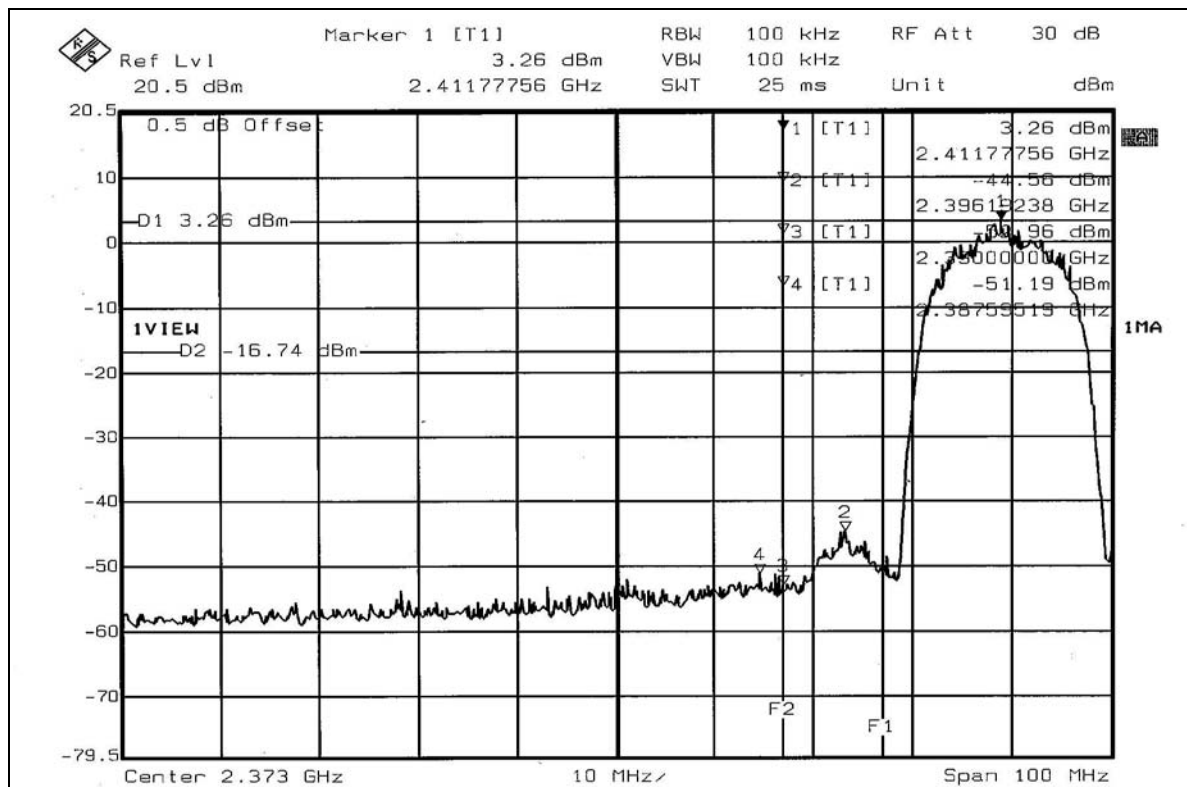
802.11g OFDM modulation

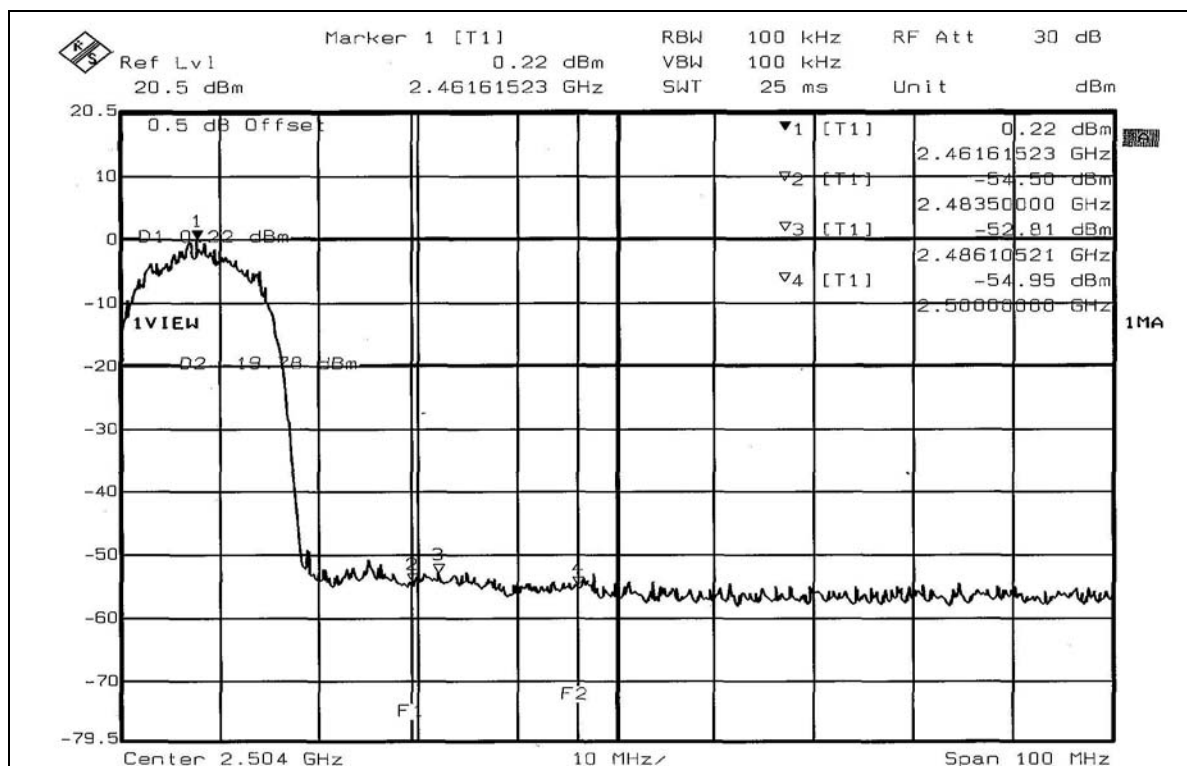
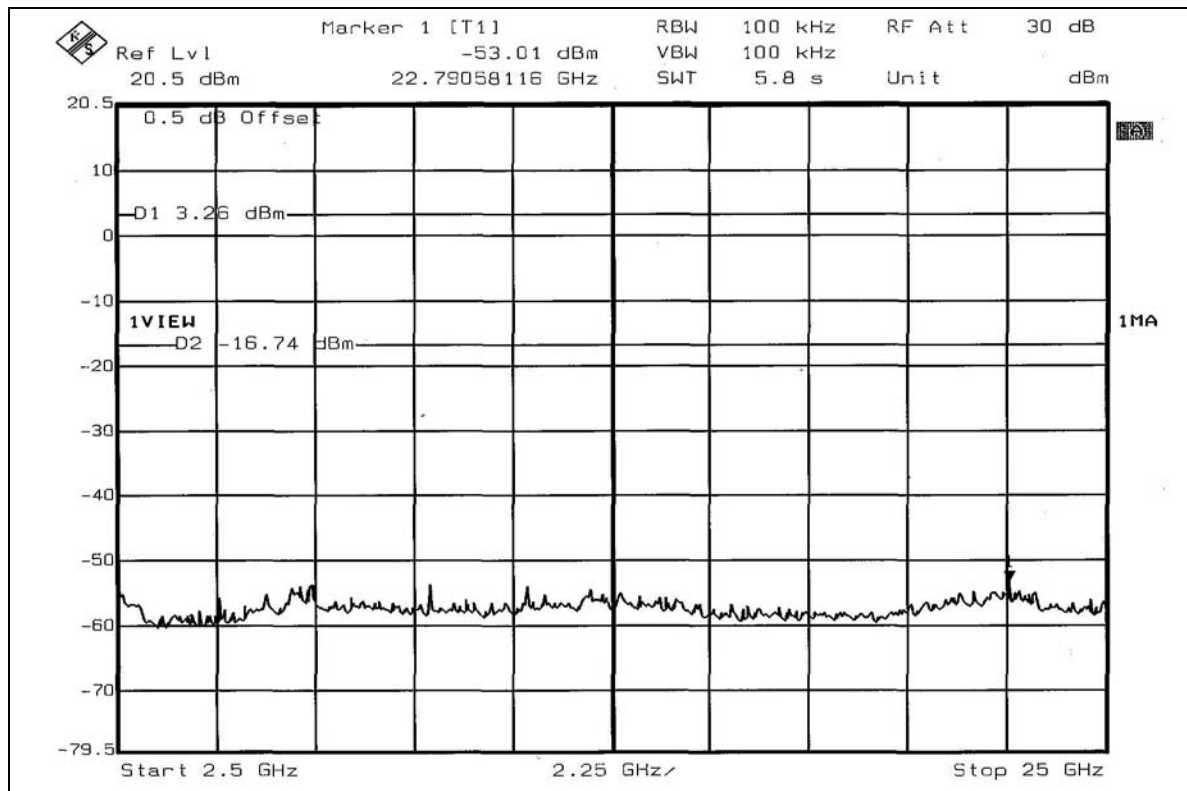
NOTE 1: The band edge emission plot on page 95 show 47.16dBc delta between carrier maximum power and local maximum emission in restrict band (2.3859GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 113.16dBuV/m (Peak), so the maximum field strength in restrict band is $113.16 - 47.16 = 66.00$ dBuV/m which is under 74dBuV/m limit.

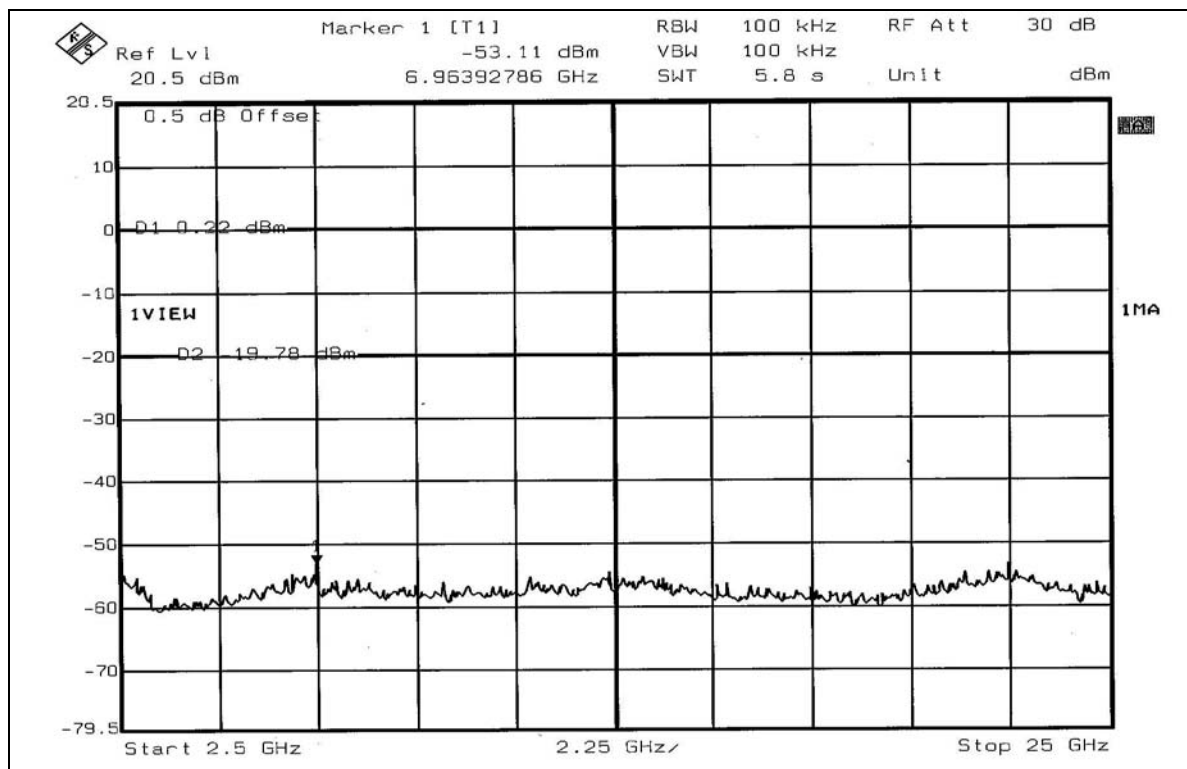
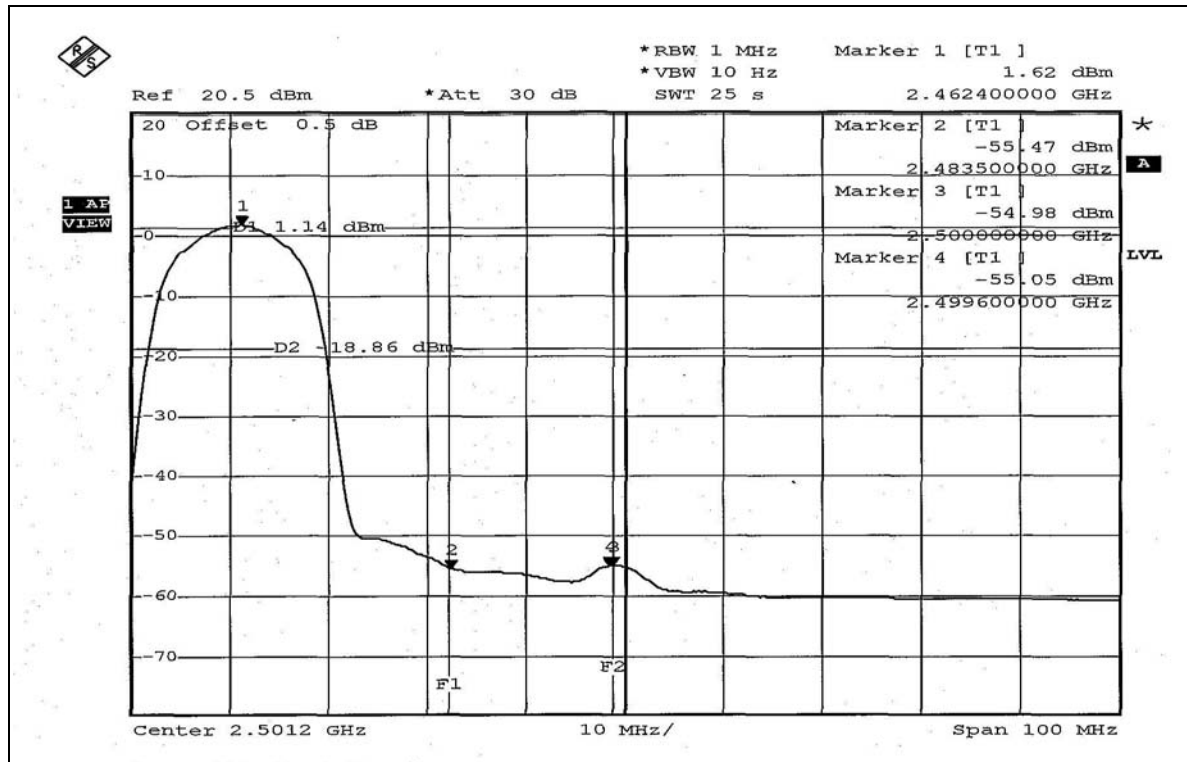
The band edge emission plot on page 95 show 50.58dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.73dBuV/m (Average), so the maximum field strength in restrict band is $103.73 - 50.58 = 53.15$ dBuV/m which is under 54dBuV/m limit.

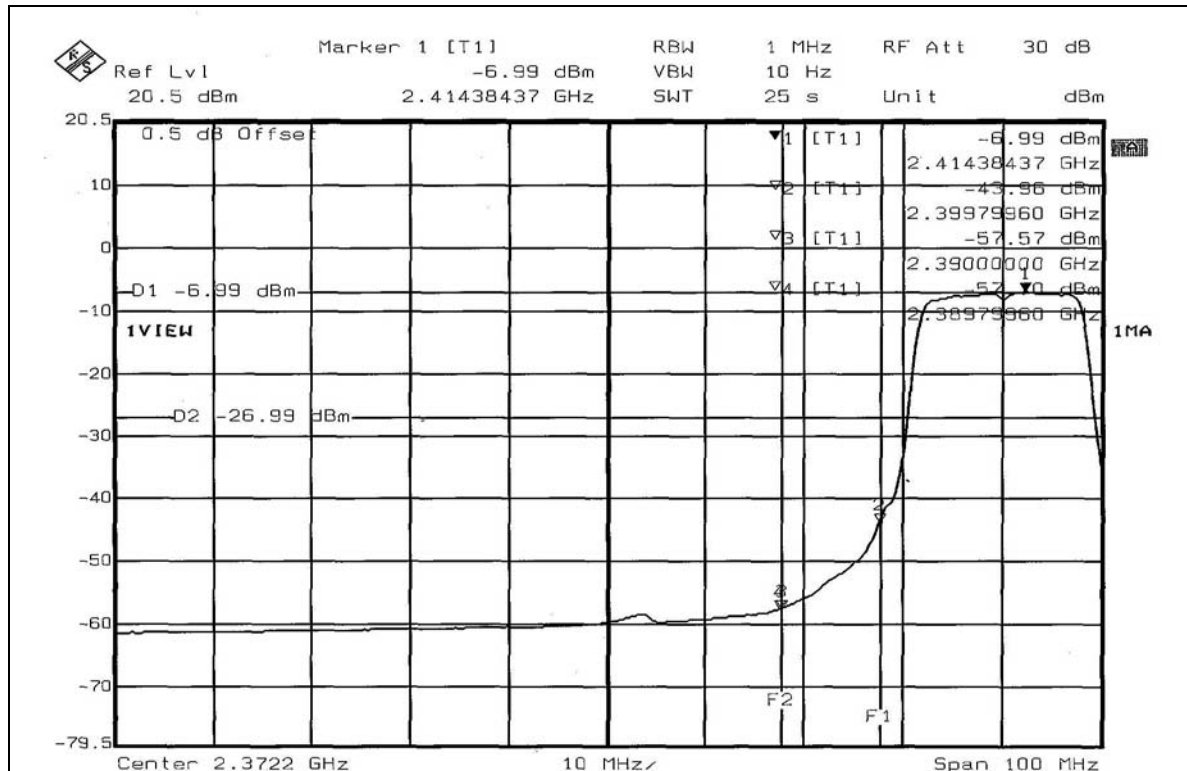
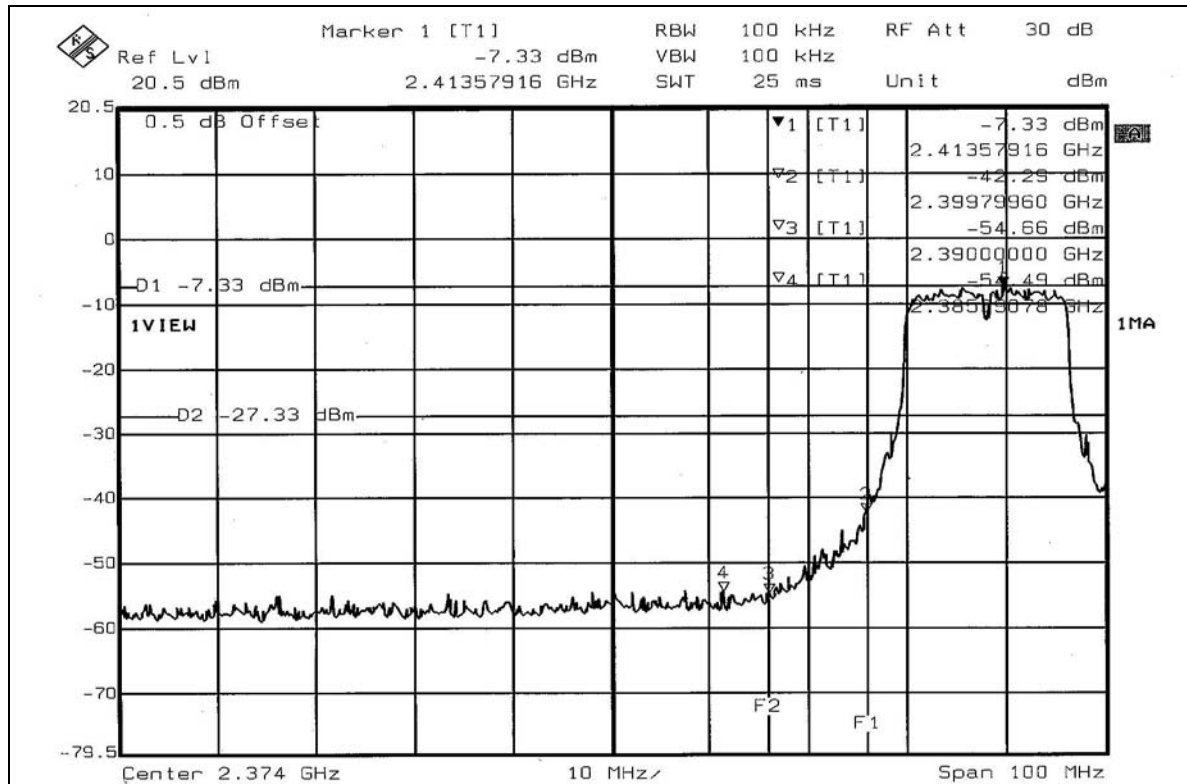
NOTE 2: The band edge emission plot on page 96 show 46.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.4981GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.64dBuV/m (Peak), so the maximum field strength in restrict band is $111.64 - 46.23 = 65.41$ dBuV/m which is under 74dBuV/m limit.

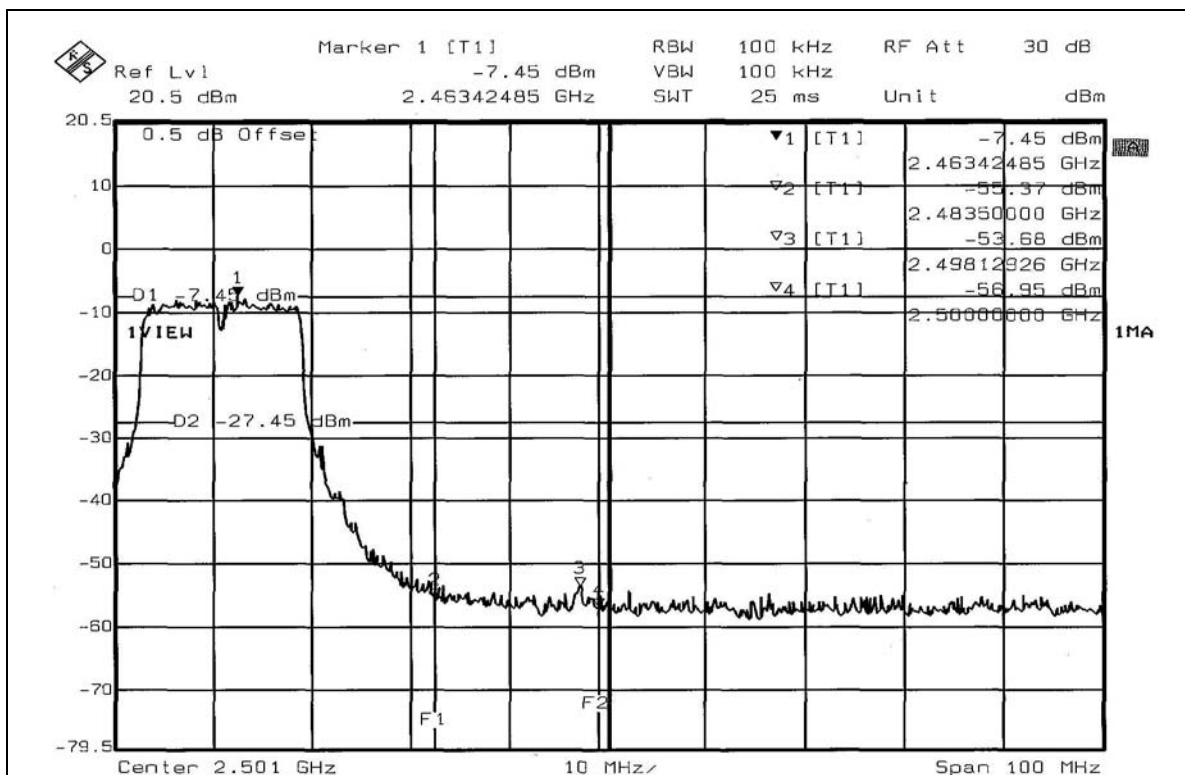
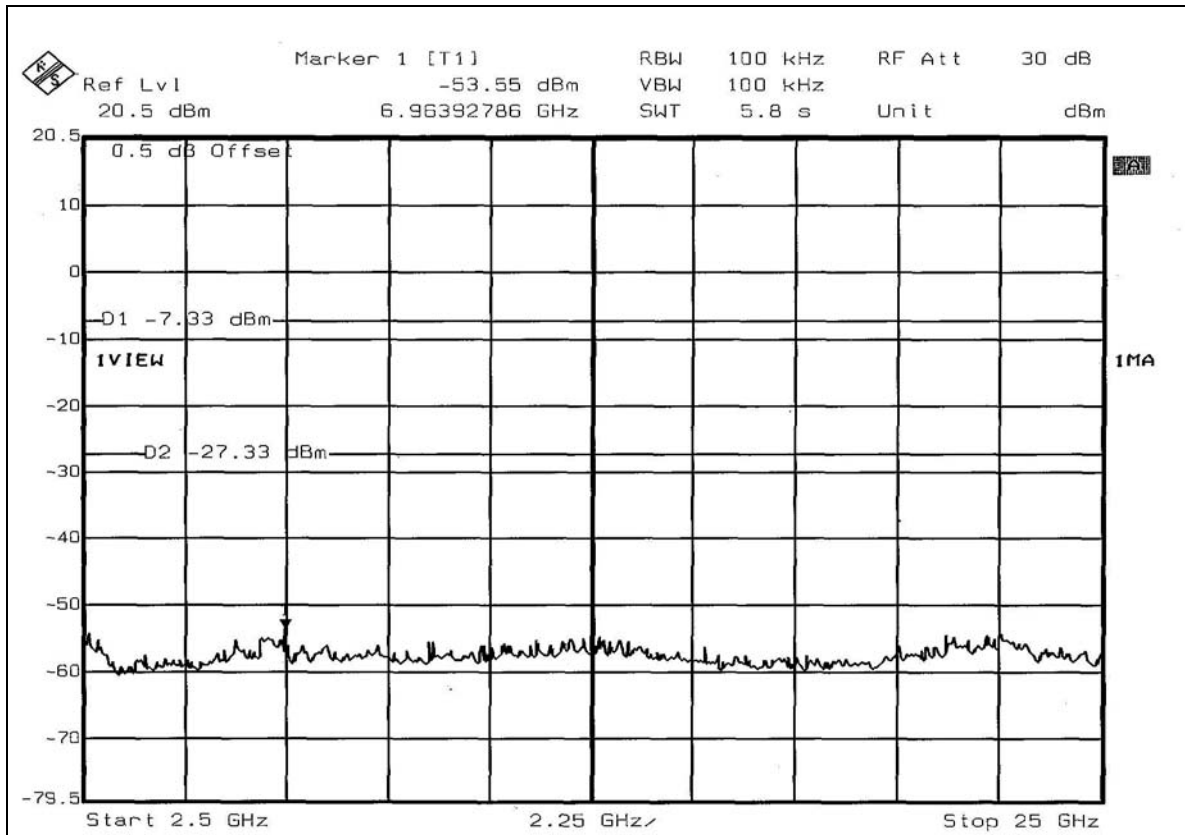
The band edge emission plot on page 97 show 48.84dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 102.32dBuV/m (Average), so the maximum field strength in restrict band is $102.32 - 48.84 = 53.48$ dBuV/m which is under 54dBuV/m limit.

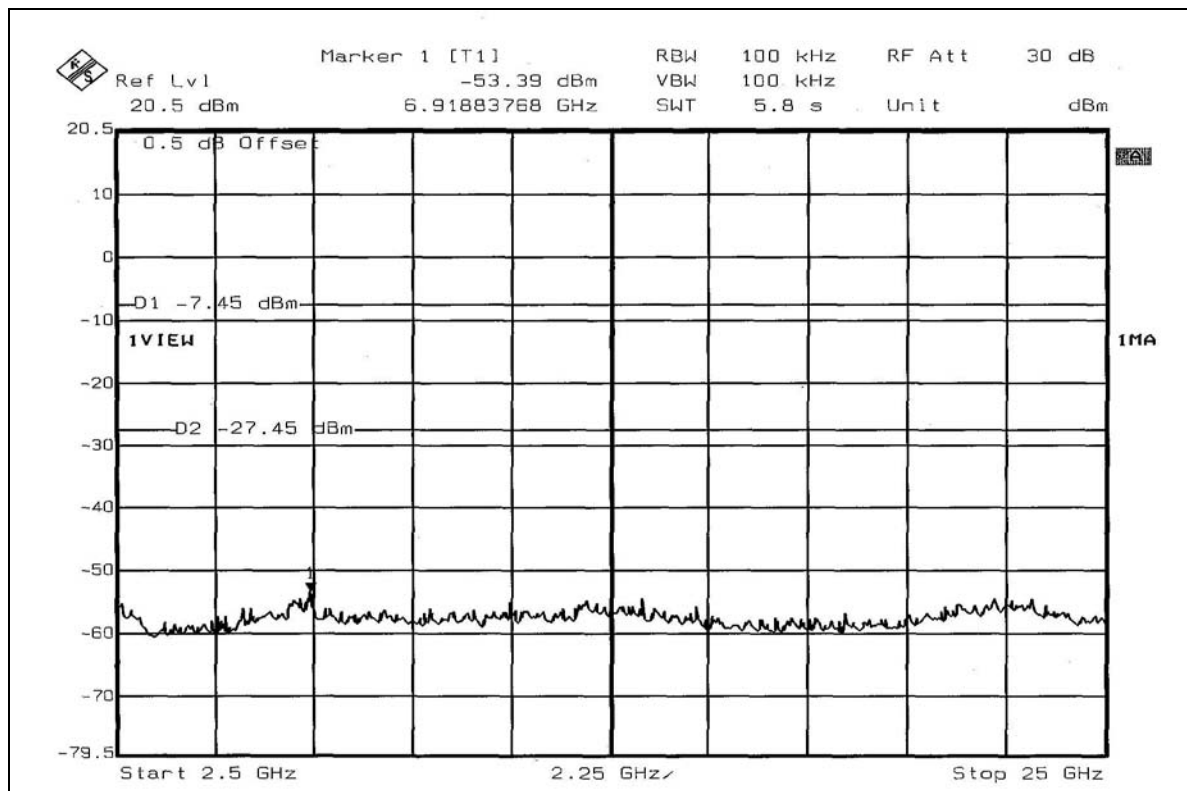
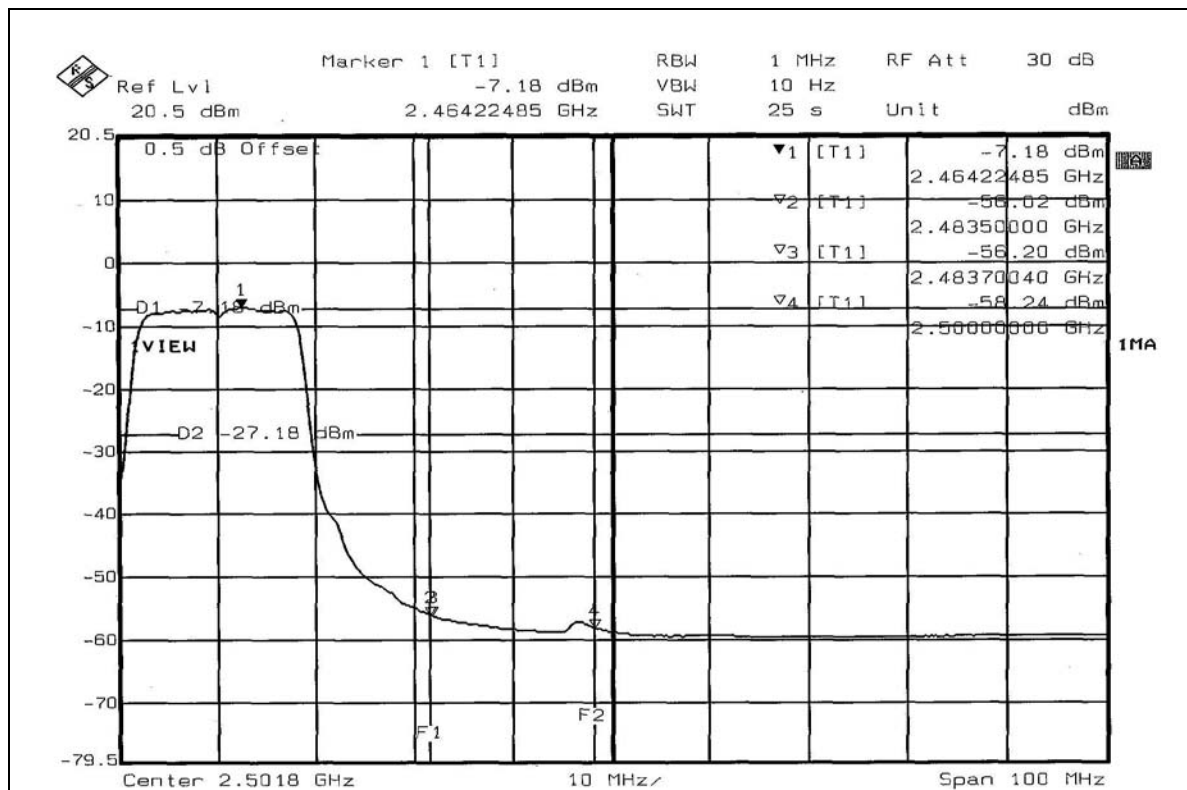














4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

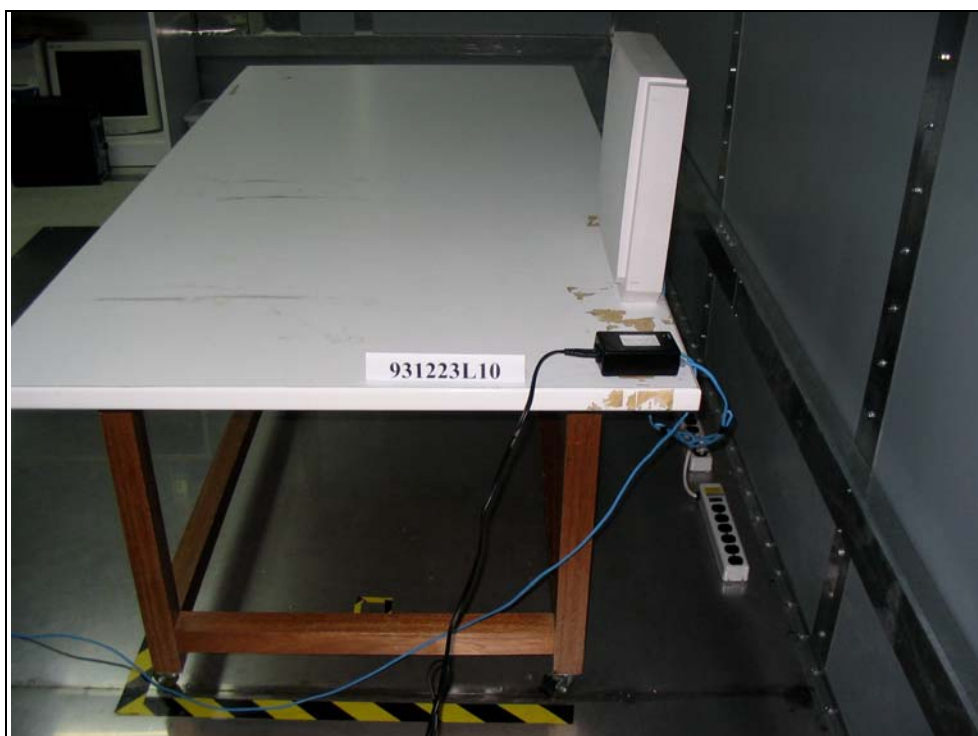
And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

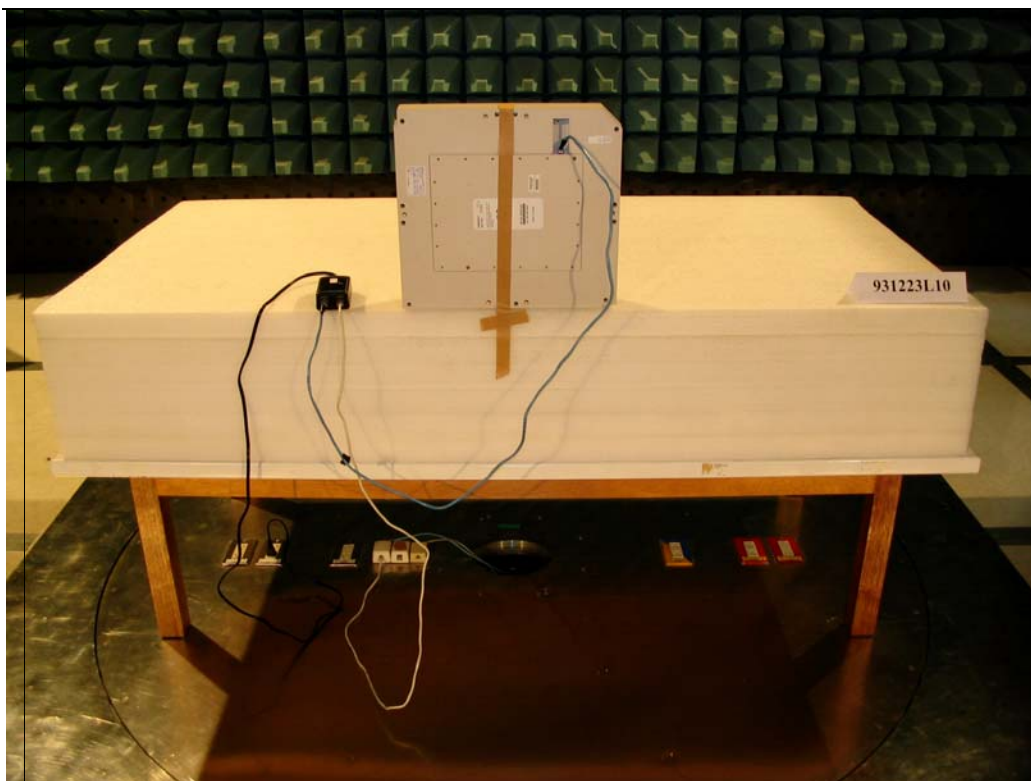
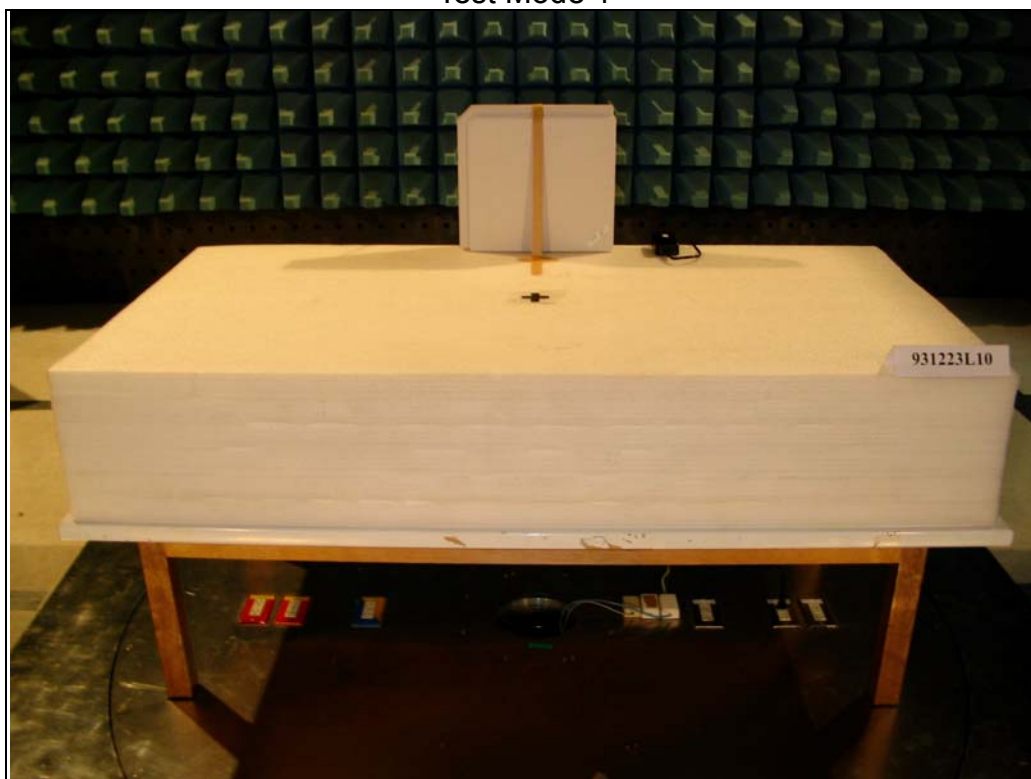
The antennas used in this product are Dipole and Patch antenna with reverse N - Type connector. And the maximum Gain of this antenna is 18.0dBi.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

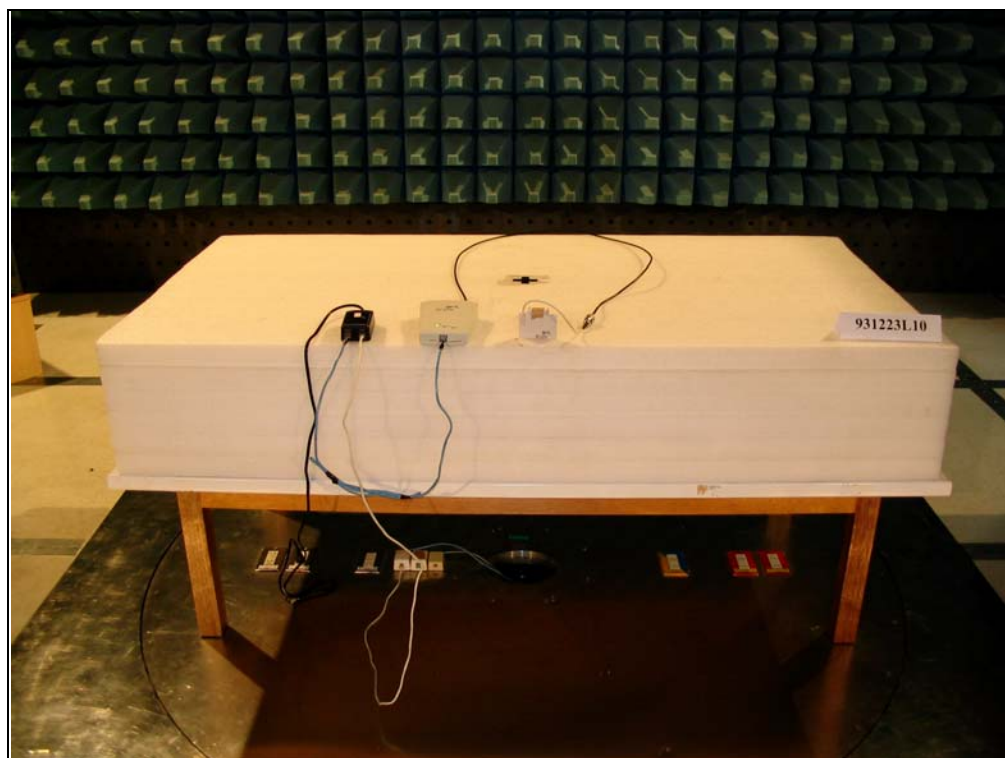
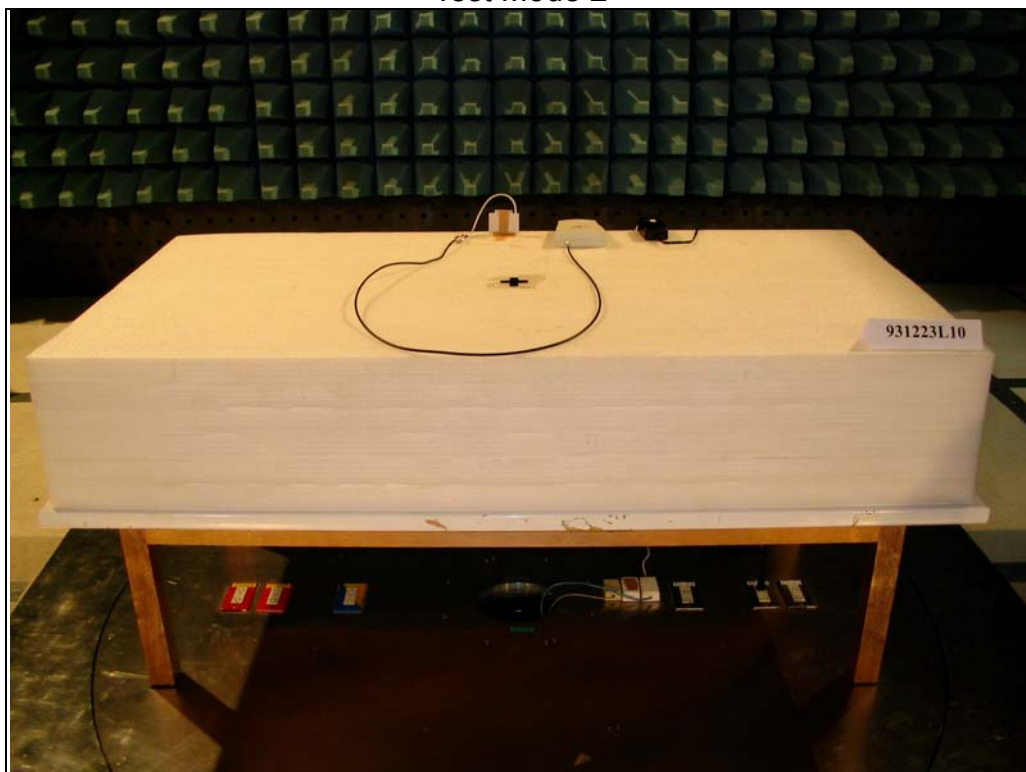
CONDUCTED EMISSION TEST



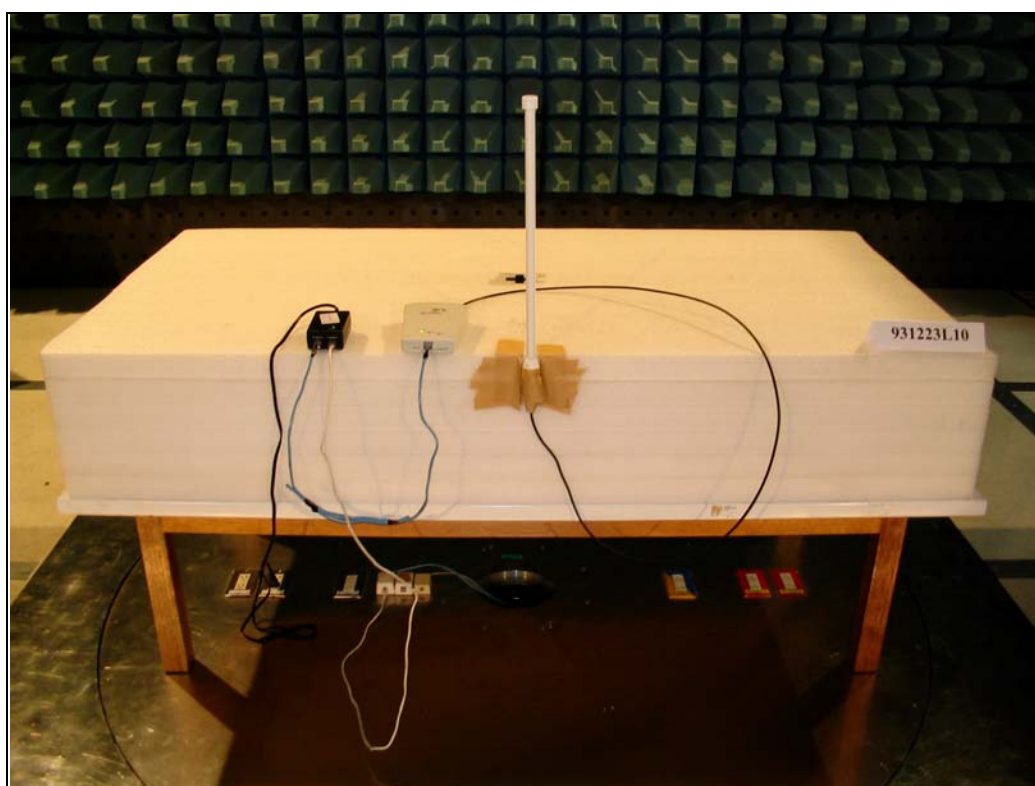
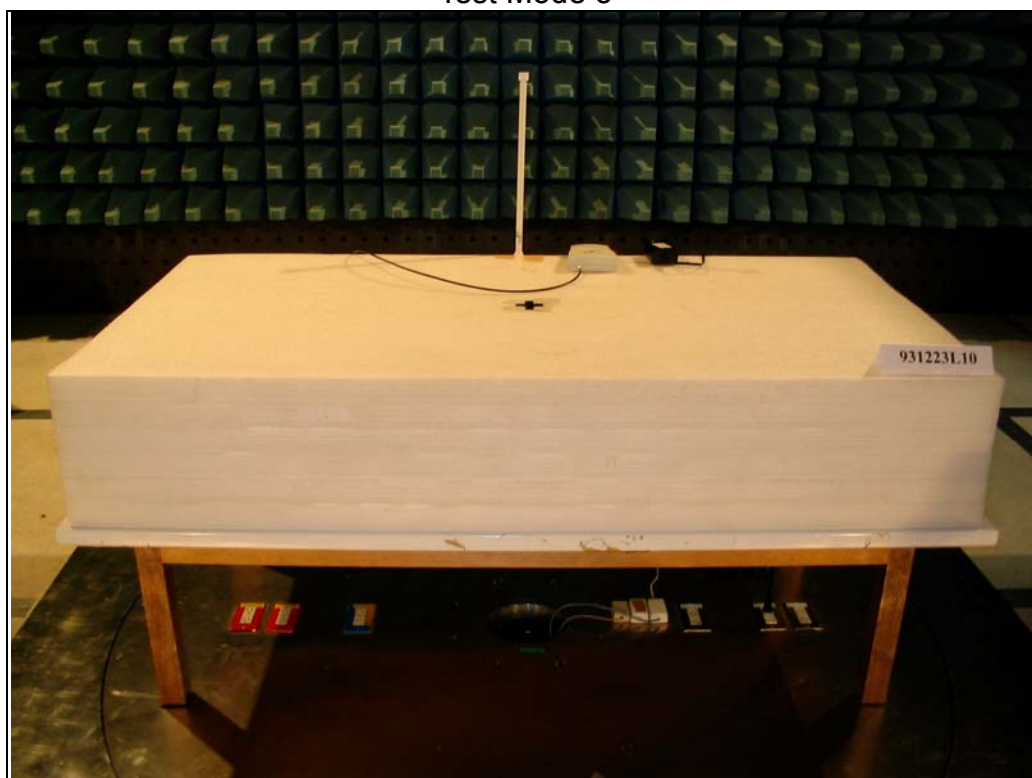
RADIATED EMISSION TEST Test Mode 1



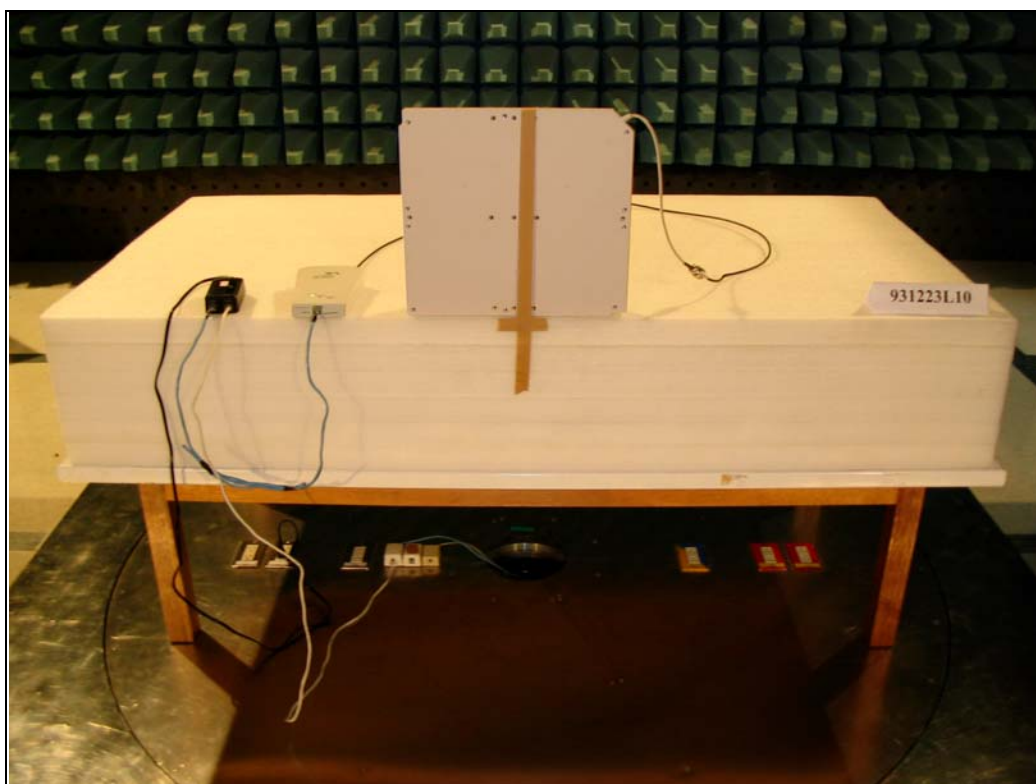
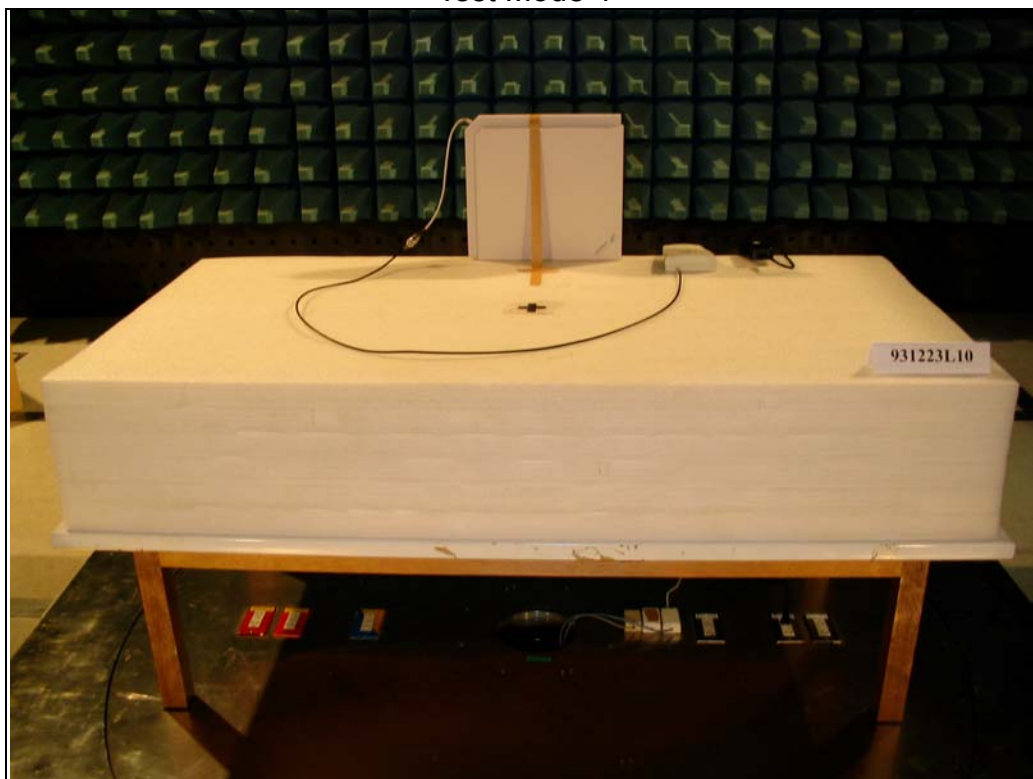
Test Mode 2



Test Mode 3



Test Mode 4



6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP, UL , A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	CNLA, BSMI, DGT
Netherlands	Telefication
Singapore	PSB , GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Linko RF Lab.

Tel: 886-3-3270910

Fax: 886-3-3270892

Web Site: www.adt.com.tw

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