

# TEST REPORT

Test Report No.: 6384F-3

Applicant : Toshiba Corporation  
 EUT : Portable Media Player  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ (Conducted & Radiated Emission Test)  
 MG1-A07-CH024-CSJ (Conducted RF Test via Antenna Terminal)  
 FCC ID : CJ6UMET401WL  
 Issue Date : 20 July 2007  
 Date of Test : 25-27 June 2007 (Radiated Emission Test)  
 27, 28 June 2007 (Conducted Emission Test)  
 2-3, 13 July 2007 (Conducted RF Test via Antenna Terminal)  
 Test Standard : FCC Part 15 Subpart C Section 15.207, 15.247 (10-1-06 Edition)  
 Procedure : ANSI C63.4-2003 PUBLIC NOTICE DA 00-705  
 Measurement of Digital Transmission System Operating  
 under Section 15.247 (23 March 2005)  
 Test Results : PASS

Approved By:

  
 Manager / Kenzo Furuta

Reviewed By:

  
 Chief Engineer / Takeshi Matsumura

Tested By:

  
 Chief Engineer / Takeshi Matsumura

:

  
 Engineer / Kentaro Fukuda



NVLAP LAB CODE 200607-0

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## Revised Record

<b>Revised Record</b>				
Number of Revised Time	Date	Person in Charge	Detail of Revision	Approved By
Initial	5 July 2007	K. Fukuda	-	-
Δ1	17 July 2007	K. Fukuda	Add a new test item. (Page 27)	K. Furuta
Δ2	20 July 2007	K. Fukuda	Add a new text. (Page 94, 95 and 96)	K. Furuta

## 1 Test Report

- (1) This report summarizes the result of a single investigation and test result relate only to tested sample.
- (2) The report shall not be reproduced except in full without the written approval of the TAIYO YUDEN Co., Ltd.
- (3) This test report must not be used by the client to claim product endorsement by any government agency.
- (4) We hereby certify that no party to the applications authorized hereunder is subject to a denial of benefits, including FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 853(a).
- (5) The test results in this report are traceable to international standards.

## 2 General Information

### 2.1 Applicant Information

Company Name	Toshiba Corporation
Address	2-9, Suehiro-Cho, Ome, 198-8710, Japan

### 2.2 Product Description

EUT	Portable Audio Player
Model No.	MET401
Serial No	MG1-A07-CH024-CSJ (Conducted & Radiated Emission Test) MG1-A07-CH021-CSJ (Conducted RF Test via Antenna Terminal)
FCC ID	CJ6UMET401WL
Production Stage	Pre-Production
Type of Wide Band Modulation	DSSS for 11b, OFDM for 11g
Type of Modulation	DBPSK (1Mbps), DQPSK (2Mbps) and CCK (5.5/11Mbps) for 11b BPSK (6/9Mbps), QPSK (12/18Mbps), 16QAM (24/36Mbps) and 64QAM (48/54Mbps) for 11g
ITU Code	D1D (DSSS), G1D (OFDM)
Power Supply	DC 3.7V from Battery
AC Adaptor	For Battery Charge
Operating Temperature	5 Min. 35 Max.
Weight	70g
Dimensions of EUT	W54.0mm × D85.6.0mm × H9.9mm
Antenna Type	Monopole
Max Antenna Gain	2.0dBi
Operating Clocks	2412-2462MHz (1-11CH)
Receipt Date of Tested Sample	22 June 2007

2.4GHz 802.11 b/g Module. Portable media player that have 4GB flash memory, 2.4" QVGA TFT Color LCD and IEEE 802.11 b/g wireless LAN. EUT operates in the unlicensed 2.4GHz ISM (Industrial Scientific Medical) band.

## 2.3 Summary of Test and Inspection Result

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst Margin	Results
1	AC Powerline Conducted Emission	ANSI C63.4: 2003*	FCC 15.207	Conducted Emission Test	N/A	15.9dB	Pass
						----- IEEE 802.11b (1Mbps) Transmitting Mode: 2437MHz  Frequency: 0.153MHz Power Line: L2 ----- IEEE 802.11b (1Mbps) Transmitting Mode: 2462MHz  Frequency: 0.153MHz Power Line: L2	
2	6 dB Bandwidth		FCC 15.247(a)(2)	Conducted RF Test via Antenna Terminal	N/A	-	Pass
3	Maximum Peak Output Power		FCC 15.247(b)(3)		N/A	-	Pass
4	Band Edge Compliance		FCC 15.247(d)		N/A	-	Pass
5	Spurious RF Conducted Emission		FCC 15.247(d)		N/A	-	Pass
6	Radiated Emission		FCC 15.247(d)		Radiated Emission Test	N/A	7.2dB Transmitting Mode: 2437MHz  Frequency: 264.004MHz Axial Direction: XY-Plane Antenna Polarization: Horizontal
7	Peak Power Spectral Density		FCC 15.247(e)	Conducted RF Test via Antenna Terminal	N/A	-	Pass

\*These tests were also referred to "Measurement of Digital Transmission Systems Operating under Section 15.247" (23 March 2005).

## 2.4 Test Methodology

Interference measurements were made in accordance with ANSI C63.4-2003 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

## 2.5 Test Facility

TAIYO YUDEN CO., LTD. EMC Center  
5607-2, Nakamuroda-machi, Takasaki-shi, Gunma, 370-3347, Japan.

1. FCC 47CFR, Part 15, Section 15.247 regulation test were performed on the shielded room, and radiated interference field strength test was performed on the 10 meter semi-anechoic chamber located at TAIYO YUDEN CO., LTD. EMC Center, 5607-2 Nakamuroda-machi, Takasaki-shi, Gunma, 370-3347 Japan.
2. This Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) by United States Department of Commerce, National Institute of Standard and Technology (NIST) for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations.
3. These criteria encompass the requirements of ISO/IEC 17025:2005 and the relevant requirements of ISO 9002:1994 as suppliers of calibration or test results. Accreditation awarded for specific services, listed on the Scope of Accreditation for: ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS FCC. (NVLAP LAB CODE: 200607-0). Refer the certificate of the accreditation to Appendix 2.
4. This laboratory is listed by Federal Communications Commission, Equipment Authorization Division (Registration Number: 606514).

### 3 System Test Configuration

#### 3.1 Justification

1. Emission tests were performed with no deviation from the ANSI C63.4-2003 and FCC 47CFR, Part 15, Section 15.247 regulation tests were performed with no deviation from the FCC Public Notice DA00-705 released March 30, 2000.
2. The system was configured for testing a typical fashion (as a customer would normally use it.).
3. Radiate testing in the range of 1GHz to 25GHz was investigated with the spectrum (peak detector function) under the FCC regulation section 15.209 (e) and 15.35 (b). Radiate testing in the range of 18GHz to 25GHz performed at an antenna to EUT distance of 1 meter. The level of any unwanted emissions from EUT did not exceed the level of the fundamental emission (Compliance with 15.209 (c)). And test result found to be compliance with FCC regulation section 15.209 (a) Radiated emission limits (500 micro-volts/meter). Data is presented for the “worst case” measurements, that E.U.T was normal operated.
4. Radiate testing in the range of 30MHz to 1000MHz was performed at an antenna to EUT distance of 3 meters under the 15.209 (e) and 15.31(f)(1).
5. All tests were performed with the representative channel operation as follows.
  - a. Lowest Frequency channel: CH1 2412MHz
  - b. Middle Frequency channel: CH6 2437MHz
  - c. Highest Frequency channel: CH11 2462MHz

#### 3.2 Operating Modes

##### Transmitting Mode

Modulation	DBPSK (1Mbps) for IEEE 802.11b (DSSS)
	BPSK (6Mbps) for IEEE 802.11g (OFDM)
Representative Channel	CH1 2412MHz (Lowest Frequency Channel)
	CH6 2437MHz (Middle Frequency Channel)
	CH11 2462MHz (Highest Frequency Channel)

**Remarks:**

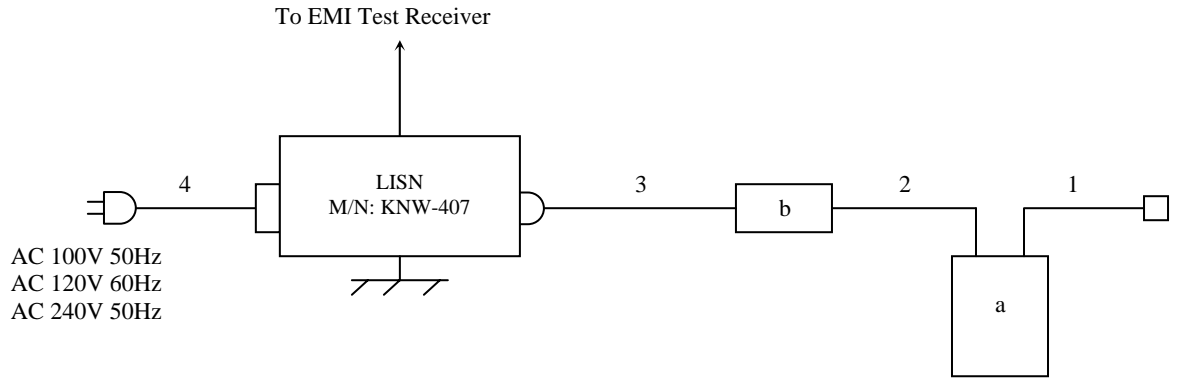
Software (Controller): Software supplied by Key Stream was used to set up to the wireless LAN operating mode.



### 3.3 Configuration of Tested System

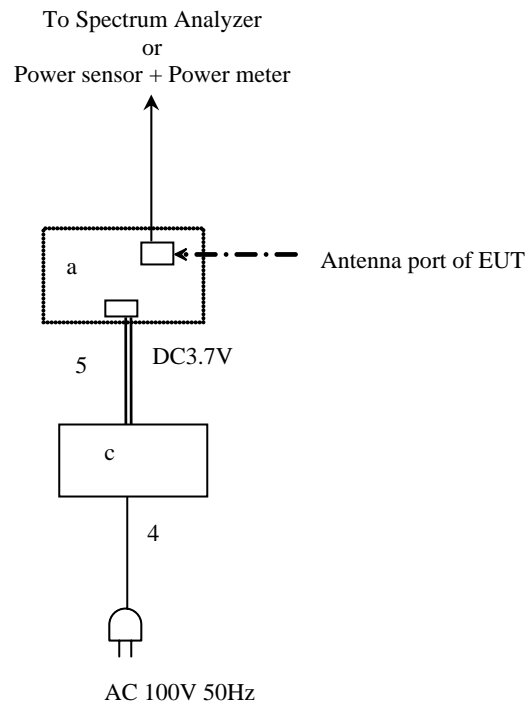
#### (1) Conducted Emission Test

These numbers and the marks in the picture are corresponding to the numbers and the marks in Tables shown at the Section 3.4 and 3.5.



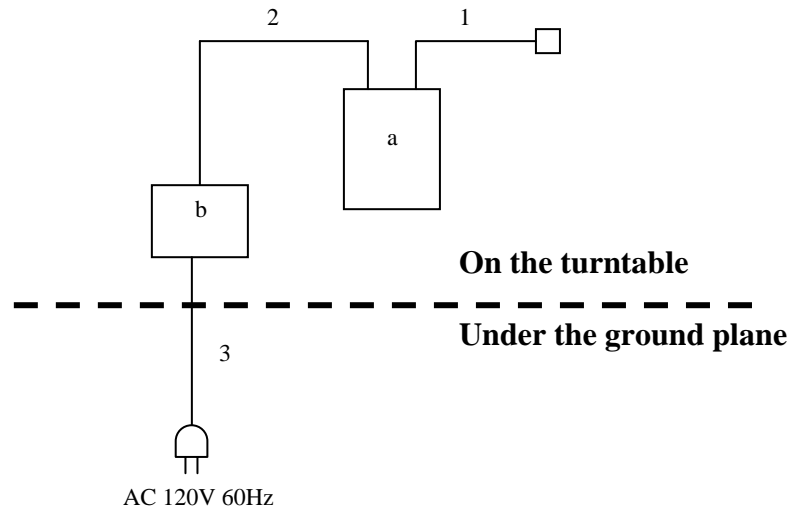
#### (2) Conducted RF Test via Antenna Terminal

These numbers and the marks in the picture are corresponding to the numbers and the marks in Tables shown at the Section 3.4 and 3.5.



**(3) Radiated Emission Test**

These numbers and the marks in the picture are corresponding to the numbers and the marks in Tables shown at the Section 3.4 and 3.5.



### 3.4 List of Accessories and EUT

	Product name	M/N	S/N	Manufacturer	EUT / Accessory	FCC ID / DoC
a	Portable Media Player	MET401	MG1-A07-CH021-CSJ (Conducted & Radiated Emission Test)  MG1-A07-CH024-CSJ (Conducted RF Test Via Antenna Terminal )	Toshiba Corporation	EUT	CJ6UMET401 WL
b	AC Adaptor	UAW0505JA	MAC080	Toshiba Corporation	Accessory	-
c	Regulated DC Power Supply	PA18-1.2	2110071	KENWOOD	Accessory	-

### 3.5 Interface Cables

	Cable Type	M/N	Shielded	Ferrite Core	Material of Connector	Length	Treatment for the Extra Length
1	Headphone Cable	-	No	No	Metal	1.25m	-
2	USB Cable	-	Yes	No	Metal	1.08m	-
3	AC Cable	-	No	No	Plastic	3.13m	-
4	AC Cable	-	No	No	-	2.04m	-
5	DC Cable	-	No	No	-	0.10m	-

### 3.6 Test Instruments

About test instruments for all tests, please refer to appendix 2.

### 3.7 Special Test Condition

Nothing

### 3.8 Equipment Modifications

No modification has been carried out by TAIYO YUDEN CO., LTD. EMC Center.

## 4 Antenna Requirement

The EUT provides a permanently attached antenna and it was found to be compliant with FCC regulation section 15.203.

Antenna Type	Monopole
Antenna Gain	2.0dBi

## 5 AC Powerline Conducted Emission

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

### 5.1 Test Setup

Conducted emission measurements were performed from 150kHz to 30MHz.

The test setup was made according to ANSI STD C63.4-2001 clause 7 in the Shielded room.

The rear of non-conductive wooden table top was placed 0.4 m from a vertical metal reference plane that one of the wall.

Rears of the peripherals were all aligned and flush with rear of non-conductive wooden tabletop.

The height of this table was 0.8m and 1.5m wide x 1.0m deep size.

The spacing between the each equipment was 10cm.

Connection of the PC connected EUT USB Adaptor to the Artificial Mains Network (AMN)/ Line Impedance Stabilization Network (LISN) was required.

The distance between the closet surface of the EUT and the closet surface of the AMN (LISN) was 0.8m.

Connection of the all other equipment to the second AMN (LISN) was required. The distance between the peripherals and the closet surface of the second AMN (LISN) was minimum 0.8m.

The second artificial mains network is terminated with 50ohm terminator.

Where a mains flexible cord is provided by the manufacture this is 2.0m long and excess cable was folded back and forth as far as possible to 0.8m so as to form a bundle not exceeding 0.4m in length.

Interconnecting cables of table top equipment that hang closer than 0.4m to the floor ground plane were folded back and forth forming a bundle 30 to 40cm long, hanging approximately in the middle between ground plane and table.

The measurement has been conducted with both L1 and L2 neutral power supply polarization.

The maximum voltage emission was verified with the cable routing and the location of the peripherals.

The highest voltage emission has been recorded.

For further description of the configuration refer to the photographs of this report.

#### Test Receiver Setting:

150kHz ~ 30MHz:

Detector Mode	Quasi-Peak and Average
Bandwidth	10kHz

### 5.2 Conducted Emission Calculation

The basic equation with a sample calculation is as follows:

$$c.f. = CF + AL$$

$$CE = RA + c.f.$$

- Where
- c.f. : Correction Factor [dB]
  - CE : Conducted Emission (Emission Level - Result) [dBuV]
  - RA : Receiver Amplitude (Reading Level) [dBuV]
  - CF : Cable Attenuation Loss [dB]
  - AL : Attenuator Loss [dB]

Assume a receiver reading of 40.8dBuV is obtained.  
 The Factor of 3.4dB is added, giving a terminal voltage of 44.2dBuV. The 44.2dBuV value was mathematically converted to its corresponding level in uV.

$CE = 40.8 + 3.4 = 44.2\text{dBuV}$

No.	Frequency [MHz]	Reading		c. f [dB]	Result		Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]
		QP [dB(μV)]	AV [dB(μV)]		QP [dB(μV)]	AV [dB(μV)]				
1	0.165	40.8	24.5	3.4	44.2	27.9	65.2	55.2	21.0	27.3
2	0.187	37.3	21.8	3.4	40.7	25.2	64.2	54.2	23.5	29.0
3	0.260	36.1	20.5	3.3	39.4	23.8	61.4	51.4	22.0	27.6
4	9.790	23.3	17.9	3.7	27.0	21.6	60.0	50.0	33.0	28.4

Level in uV = Common Antilogarithm:  $10^{(44.2\text{dBuV})/20} = 162.2\text{uV}$

### 5.3 Test Results

- Serial No. : MG1-A07-CH021-CSJ
- Power : AC 100V 50Hz  
AC 120V 60Hz  
AC 240V 50Hz
- Mode : Transmitting Mode (1CH, 6CH, 11CH)  
DBPSK (1Mbps) for IEEE 802.11b (DSSS)
- Temperature : Refer to spurious emission data.
- Humidity : Refer to spurious emission data.
- Regulation : FCC Part15 C §15.207

The spurious emission data are attached next page.

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 <<6384F>>

27 June,2007 13:57

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 120V 60Hz  
 Temp./Humid. : 22.9 / 76.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15319	45.3	31.6	3.4	48.7	35.0	65.8	55.8	17.1	20.8
2	0.30918	38.1	25.4	3.2	41.3	28.6	60.0	50.0	18.7	21.4
3	0.46447	30.3	17.1	3.2	33.5	20.3	56.6	46.6	23.1	26.3
4	0.6202	28.6	14.6	3.1	31.7	17.7	56.0	46.0	24.3	28.3
5	0.93215	30.0	17.2	3.2	33.2	20.4	56.0	46.0	22.8	25.6
6	2.64318	31.0	16.2	3.3	34.3	19.5	56.0	46.0	21.7	26.5

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15355	46.4	30.8	3.4	49.8	34.2	65.8	55.8	16.0	21.6
2	0.30909	38.0	25.3	3.2	41.2	28.5	60.0	50.0	18.8	21.5
3	0.46422	28.7	16.4	3.1	31.8	19.5	56.6	46.6	24.8	27.1
4	0.61993	22.7	13.3	3.1	25.8	16.4	56.0	46.0	30.2	29.6
5	0.90545	25.2	11.3	3.2	28.4	14.5	56.0	46.0	27.6	31.5
6	2.79773	32.5	17.2	3.3	35.8	20.5	56.0	46.0	20.2	25.5

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 <<6384F>>

27 June,2007 15:32

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 120V 60Hz  
 Temp./Humid. : 22.9 / 76.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15277	44.9	31.4	3.4	48.3	34.8	65.8	55.8	17.5	21.0
2	0.30896	38.0	25.7	3.2	41.2	28.9	60.0	50.0	18.8	21.1
3	0.46523	30.0	17.2	3.2	33.2	20.4	56.6	46.6	23.4	26.2
4	0.77768	29.8	18.0	3.2	33.0	21.2	56.0	46.0	23.0	24.8
5	0.93376	30.0	17.2	3.2	33.2	20.4	56.0	46.0	22.8	25.6
6	2.64912	31.0	15.3	3.3	34.3	18.6	56.0	46.0	21.7	27.4

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15358	46.5	31.3	3.4	49.9	34.7	65.8	55.8	15.9	21.1
2	0.30966	37.8	25.2	3.2	41.0	28.4	60.0	50.0	19.0	21.6
3	0.46585	28.7	16.3	3.1	31.8	19.4	56.6	46.6	24.8	27.2
4	0.75685	25.6	12.5	3.2	28.8	15.7	56.0	46.0	27.2	30.3
5	0.90837	25.3	11.4	3.2	28.5	14.6	56.0	46.0	27.5	31.4
6	2.80572	32.4	15.3	3.3	35.7	18.6	56.0	46.0	20.3	27.4



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27 June,2007 16:08

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 120V 60Hz  
 Temp./Humid. : 22.9 / 76.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15371	44.7	31.2	3.4	48.1	34.6	65.8	55.8	17.7	21.2
2	0.31001	37.7	25.2	3.2	40.9	28.4	60.0	50.0	19.1	21.6
3	0.46527	30.0	17.2	3.2	33.2	20.4	56.6	46.6	23.4	26.2
4	0.77736	29.7	18.1	3.2	32.9	21.3	56.0	46.0	23.1	24.7
5	0.93377	30.0	17.5	3.2	33.2	20.7	56.0	46.0	22.8	25.3
6	2.64987	31.0	16.2	3.3	34.3	19.5	56.0	46.0	21.7	26.5

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15332	46.5	31.3	3.4	49.9	34.7	65.8	55.8	15.9	21.1
2	0.30888	37.7	25.4	3.2	40.9	28.6	60.0	50.0	19.1	21.4
3	0.46584	28.6	16.2	3.1	31.7	19.3	56.6	46.6	24.9	27.3
4	0.75657	25.1	11.2	3.2	28.3	14.4	56.0	46.0	27.7	31.6
5	0.90841	25.4	11.0	3.2	28.6	14.2	56.0	46.0	27.4	31.8
6	2.80761	32.2	15.2	3.3	35.5	18.5	56.0	46.0	20.5	27.5

\*\*\*\*\* TAIYO YUDEN CO.,LTD \*\*\*\*\*  
 <<6384F>>

28 June,2007 09:04

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 100V 50Hz  
 Temp./Humid. : 23.2 / 71.7%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.1502	38.2	17.1	3.4	41.6	20.5	66.0	56.0	24.4	35.5
2	0.28554	39.1	23.4	3.2	42.3	26.6	60.7	50.7	18.4	24.1
3	0.43034	31.5	13.1	3.2	34.7	16.3	57.2	47.2	22.5	30.9
4	0.57401	29.9	14.2	3.2	33.1	17.4	56.0	46.0	22.9	28.6
5	0.7181	29.2	13.8	3.1	32.3	16.9	56.0	46.0	23.7	29.1
6	2.59099	30.4	13.7	3.3	33.7	17.0	56.0	46.0	22.3	29.0

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15001	41.7	21.1	3.4	45.1	24.5	66.0	56.0	20.9	31.5
2	0.28679	39.7	23.6	3.2	42.9	26.8	60.6	50.6	17.7	23.8
3	0.43194	30.1	13.1	3.1	33.2	16.2	57.2	47.2	24.0	31.0
4	0.5752	26.1	11.6	3.1	29.2	14.7	56.0	46.0	26.8	31.3
5	0.71918	23.7	10.7	3.1	26.8	13.8	56.0	46.0	29.2	32.2
6	2.74291	31.6	14.1	3.3	34.9	17.4	56.0	46.0	21.1	28.6

\*\*\*\*\* TAIYO YUDEN CO.,LTD \*\*\*\*\*  
 <<6384F>>

28 June,2007 09:57

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 100V 50Hz  
 Temp./Humid. : 23.2 / 71.7%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15004	38.2	16.5	3.4	41.6	19.9	66.0	56.0	24.4	36.1
2	0.28647	38.6	22.3	3.2	41.8	25.5	60.6	50.6	18.8	25.1
3	0.43025	31.1	12.7	3.2	34.3	15.9	57.2	47.2	22.9	31.3
4	0.57481	29.7	13.2	3.2	32.9	16.4	56.0	46.0	23.1	29.6
5	0.71918	29.1	13.4	3.1	32.2	16.5	56.0	46.0	23.8	29.5
6	2.59252	30.3	13.6	3.3	33.6	16.9	56.0	46.0	22.4	29.1

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	38.7	17.2	3.4	42.1	20.6	66.0	56.0	23.9	35.4
2	0.2856	38.9	23.0	3.2	42.1	26.2	60.7	50.7	18.6	24.5
3	0.43069	29.3	12.5	3.1	32.4	15.6	57.2	47.2	24.8	31.6
4	0.57447	25.7	11.2	3.1	28.8	14.3	56.0	46.0	27.2	31.7
5	0.67642	24.2	6.7	3.1	27.3	9.8	56.0	46.0	28.7	36.2
6	2.73888	31.7	14.3	3.3	35.0	17.6	56.0	46.0	21.0	28.4

\*\*\*\*\* TAIYO YUDEN CO.,LTD \*\*\*\*\*  
 <<6384F>>

28 June,2007 10:53

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 100V 50Hz  
 Temp./Humid. : 23.2 / 71.7%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15019	37.5	15.6	3.4	40.9	19.0	66.0	56.0	25.1	37.0
2	0.28574	38.4	22.6	3.2	41.6	25.8	60.6	50.6	19.0	24.8
3	0.43042	30.9	12.5	3.2	34.1	15.7	57.2	47.2	23.1	31.5
4	0.57415	29.6	13.8	3.2	32.8	17.0	56.0	46.0	23.2	29.0
5	0.71842	29.0	13.4	3.1	32.1	16.5	56.0	46.0	23.9	29.5
6	2.59367	30.4	13.7	3.3	33.7	17.0	56.0	46.0	22.3	29.0

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	38.1	16.4	3.4	41.5	19.8	66.0	56.0	24.5	36.2
2	0.28677	38.5	22.1	3.2	41.7	25.3	60.6	50.6	18.9	25.3
3	0.43066	29.0	12.5	3.1	32.1	15.6	57.2	47.2	25.1	31.6
4	0.57363	25.4	11.8	3.2	28.6	15.0	56.0	46.0	27.4	31.0
5	0.67628	23.6	4.0	3.1	26.7	7.1	56.0	46.0	29.3	38.9
6	2.73932	31.6	14.2	3.3	34.9	17.5	56.0	46.0	21.1	28.5

\*\*\*\*\* TAIYO YUDEN CO.,LTD \*\*\*\*\*  
 <<6384F>>

28 June,2007 11:46

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 240V 50Hz  
 Temp./Humid. : 23.2 / 71.7%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.18488	38.2	24.0	3.3	41.5	27.3	64.3	54.3	22.8	27.0
2	0.37139	36.2	30.3	3.2	39.4	33.5	58.5	48.5	19.1	15.0
3	0.55835	35.7	30.5	3.2	38.9	33.7	56.0	46.0	17.1	12.3
4	0.74538	34.8	29.7	3.2	38.0	32.9	56.0	46.0	18.0	13.1
5	0.92984	33.2	28.2	3.2	36.4	31.4	56.0	46.0	19.6	14.6
6	2.04602	33.8	24.4	3.3	37.1	27.7	56.0	46.0	18.9	18.3

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.18484	40.1	23.9	3.3	43.4	27.2	64.3	54.3	20.9	27.1
2	0.37184	36.2	29.2	3.2	39.4	32.4	58.5	48.5	19.1	16.1
3	0.55914	32.8	29.3	3.2	36.0	32.5	56.0	46.0	20.0	13.5
4	0.7466	30.8	28.4	3.2	34.0	31.6	56.0	46.0	22.0	14.4
5	0.93278	30.2	27.2	3.2	33.4	30.4	56.0	46.0	22.6	15.6
6	2.98939	32.9	23.9	3.3	36.2	27.2	56.0	46.0	19.8	18.8

\*\*\*\*\* TAIYO YUDEN CO.,LTD \*\*\*\*\*  
 <<6384F>>

28 June,2007 13:27

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 240V 50Hz  
 Temp./Humid. : 23.2 / 71.7%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.37264	36.0	30.3	3.2	39.2	33.5	58.4	48.4	19.2	14.9
2	0.56002	35.6	30.5	3.2	38.8	33.7	56.0	46.0	17.2	12.3
3	0.74702	34.7	29.8	3.2	37.9	33.0	56.0	46.0	18.1	13.0
4	0.93577	32.9	27.3	3.2	36.1	30.5	56.0	46.0	19.9	15.5
5	1.87162	33.8	28.1	3.2	37.0	31.3	56.0	46.0	19.0	14.7
6	2.2388	31.4	23.4	3.2	34.6	26.6	56.0	46.0	21.4	19.4

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.18594	38.5	23.2	3.3	41.8	26.5	64.2	54.2	22.4	27.7
2	0.3732	34.6	29.2	3.2	37.8	32.4	58.4	48.4	20.6	16.0
3	0.56023	32.0	29.5	3.2	35.2	32.7	56.0	46.0	20.8	13.3
4	0.75098	31.1	28.4	3.2	34.3	31.6	56.0	46.0	21.7	14.4
5	0.93811	30.4	27.3	3.2	33.6	30.5	56.0	46.0	22.4	15.5
6	2.9984	32.9	24.6	3.3	36.2	27.9	56.0	46.0	19.8	18.1

\*\*\*\*\* TAIYO YUDEN CO.,LTD \*\*\*\*\*  
 <<6384F>>

28 June,2007 14:12

Standard : FCC Part15 Subpart C §15.207  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : AC 240V 50Hz  
 Temp./Humid. : 23.2 / 71.7%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 :

Final Result

--- L1 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.18502	37.8	23.6	3.3	41.1	26.9	64.3	54.3	23.2	27.4
2	0.37241	36.0	30.3	3.2	39.2	33.5	58.4	48.4	19.2	14.9
3	0.56043	35.7	30.4	3.2	38.9	33.6	56.0	46.0	17.1	12.4
4	0.74762	34.8	29.7	3.2	38.0	32.9	56.0	46.0	18.0	13.1
5	0.93214	33.1	28.1	3.2	36.3	31.3	56.0	46.0	19.7	14.7
6	1.86755	34.2	28.1	3.2	37.4	31.3	56.0	46.0	18.6	14.7

--- L2 Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.18553	38.5	23.1	3.3	41.8	26.4	64.2	54.2	22.4	27.8
2	0.37262	34.5	29.1	3.2	37.7	32.3	58.4	48.4	20.7	16.1
3	0.56026	32.0	29.4	3.2	35.2	32.6	56.0	46.0	20.8	13.4
4	0.74776	30.9	28.6	3.2	34.1	31.8	56.0	46.0	21.9	14.2
5	0.93576	30.3	27.0	3.2	33.5	30.2	56.0	46.0	22.5	15.8
6	2.9965	32.9	24.4	3.3	36.2	27.7	56.0	46.0	19.8	18.3

## 6 6dB Bandwidth

### 6.1 Test Setup

The spectrum analyzer was connected to the transmitter output port through the RF cable.

Spectrum Analyzer Setting:

Detector Mode	Peak
RBW	100kHz
VBW	300kHz
Span	20MHz
Sweep Time	Auto

### 6.2 Test Results

Serial No. : MG1-A07-CH024-CSJ  
 Power : DC 3.7V Supplied by PSU  
 Mode : Transmitting Mode (1CH, 6CH, 11CH)  
           DBPSK (1Mbps) for IEEE 802.11b (DSSS)  
           BPSK (6Mbps) for IEEE 802.11g (OFDM)  
 Temperature : 25  
 Humidity : 66 %  
 Regulation : FCC Part15 C §15.247 (a)(2)

CH	Frequency [MHz]	6dB Bandwidth [MHz]	Limit [MHz]
<b>802.11b Mode DBPSK (1Mbps)</b>			
1ch (Lowest)	2412.0	10.13	>=0.5
6ch (Middle)	2437.0	10.13	>=0.5
11ch (Highest)	2462.0	10.13	>=0.5
<b>802.11g Mode BPSK (6Mbps)</b>			
1ch (Lowest)	2412.0	16.43	>=0.5
6ch (Middle)	2437.0	16.40	>=0.5
11ch (Highest)	2462.0	16.40	>=0.5

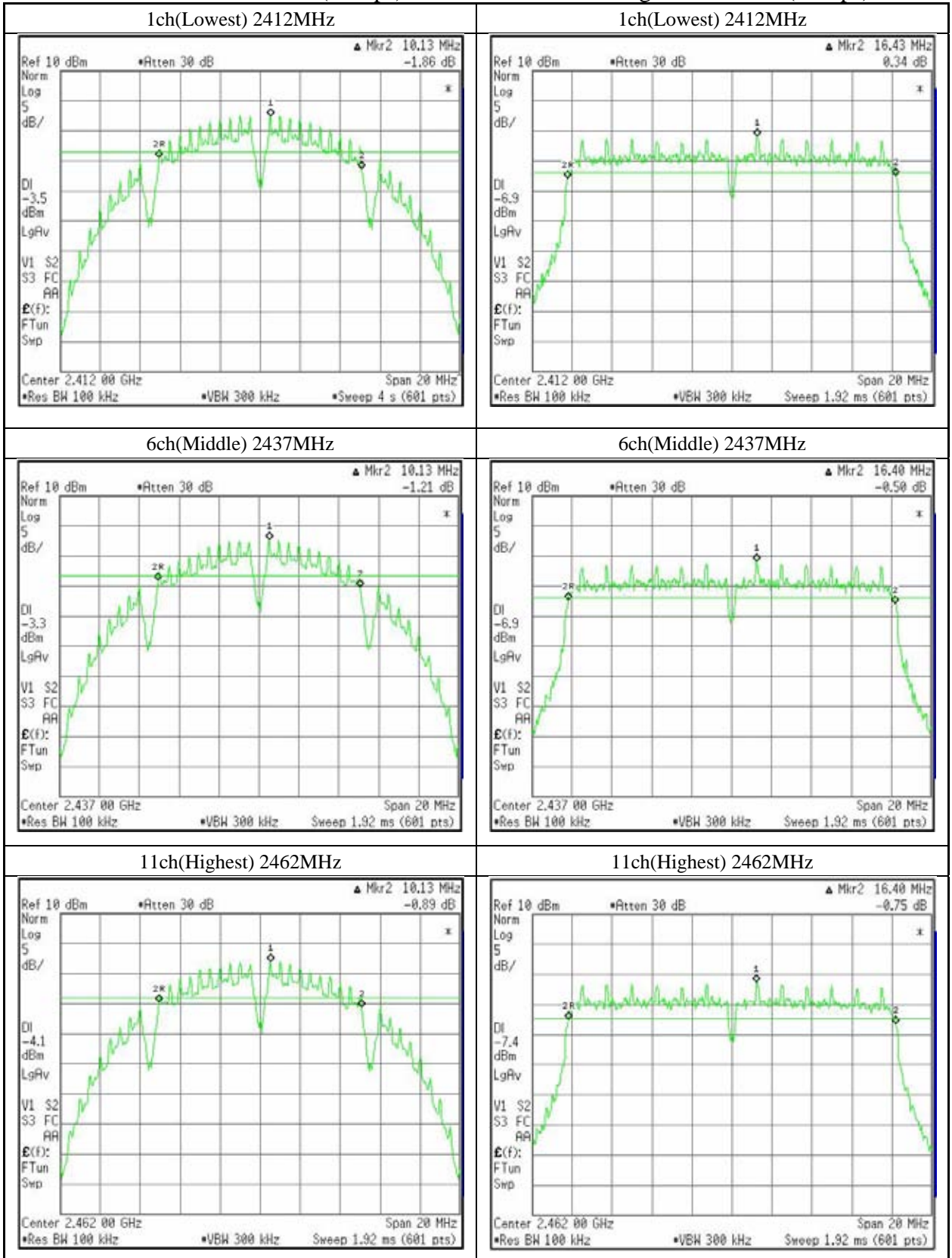
The spectrum data are attached next page. Display line indicates the 6dB offset below highest level. It shows compliance with the requirement in part 15.247(a)(2).



Data of 6dB Bandwidth

802.11b Mode DBPSK (1Mbps)

802.11g Mode BPSK (6Mbps)



## 7 Maximum Peak Output Power

### 7.1 Test Setup

The test is performed in accordance with FCC Document "Measurement of Transmission Systems Operating under section 15.247". Power Output Option 1 is used.

The power sensor was connected to the transmitter output port.

### 7.2 Test Results

Serial No.	:	MG1-A07-CH024-CSJ
Power	:	DC 3.7V Supplied by PSU
Mode	:	Transmitting Mode (1CH, 6CH, 11CH) DBPSK (1Mbps) for IEEE 802.11b (DSSS) BPSK (6Mbps) for IEEE 802.11g (OFDM)
Temperature	:	25
Humidity	:	66 %
Regulation	:	FCC Part15 C §15.247 (b)(3)

CH	Frequency [MHz]	Reading [dBm]	Cable Loss1 [dB]	Result		Limit	
				[dBm]	[mW]	[dBm]	[mW]
802.11b Mode DBPSK (1Mbps)							
0ch(Lowest)	2402	14.42	0.40	14.82	30.34	30.0	1000
39ch(Middle)	2441	13.79	0.40	14.19	26.26	30.0	1000
78ch(Highest)	2480	13.47	0.40	13.87	24.38	30.0	1000
802.11g Mode BPSK (6Mbps)							
0ch(Lowest)	2402	21.06	0.40	21.46	139.96	30.0	1000
39ch(Middle)	2441	20.83	0.40	21.23	132.74	30.0	1000
78ch(Highest)	2480	20.30	0.40	20.70	117.49	30.0	1000

Result = Reading + Cable Loss1

Note: Cable Loss1: Conversion cable used for connecting to SMA type

## 8 Average Output Power $\Delta_1$

### 8.1 Test Setup

The power sensor was connected to the transmitter output port.

### 8.2 Test Results

Serial No. : MG1-A07-CH024-CSJ  
 Power : DC 3.7V Supplied by PSU  
 Mode : Transmitting Mode (1CH, 6CH, 11CH)  
           DBPSK (1Mbps) for IEEE 802.11b (DSSS)  
           BPSK (6Mbps) for IEEE 802.11g (OFDM)  
 Temperature : 25  
 Humidity : 69 %  
 Regulation : None; for reporting purposes only.

CH	Frequency [MHz]	Reading [dBm]	Cable Loss1 [dB]	Result	
				[dBm]	[mW]
<b>802.11b Mode DBPSK (1Mbps)</b>					
0ch(Lowest)	2402	11.80	0.40	12.20	16.60
39ch(Middle)	2441	11.33	0.40	11.73	14.89
78ch(Highest)	2480	10.98	0.40	11.38	13.74
<b>802.11g Mode BPSK (6Mbps)</b>					
0ch(Lowest)	2402	10.38	0.40	10.78	11.97
39ch(Middle)	2441	10.21	0.40	10.61	11.51
78ch(Highest)	2480	9.59	0.40	9.99	9.98

Result = Reading + Cable Loss1

Note: Cable Loss1: Conversion cable used for connecting to SMA type

## 9 Band Edge Compliance

### 9.1 Test Setup

The spectrum analyzer was connected to the transmitter output port through the RF cable.

Spectrum Analyzer Setting:

Detector Mode	Peak
RBW	100kHz
VBW	300kHz
Span	50MHz
Sweep Time	Auto

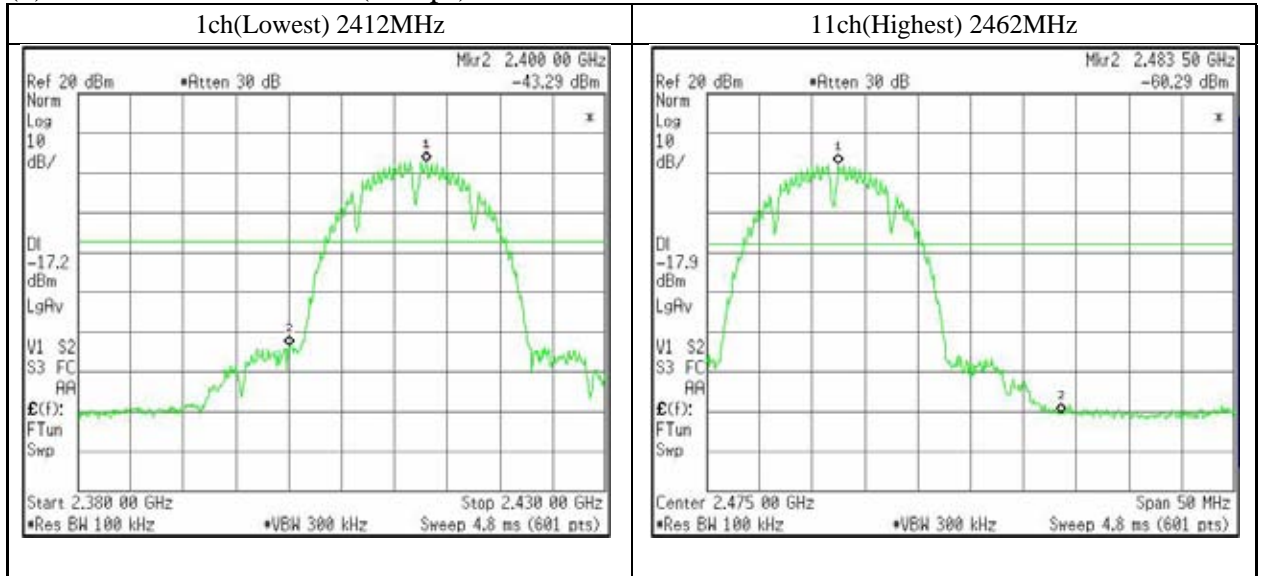
### 9.2 Test Results

Serial No. : MG1-A07-CH024-CSJ  
Power : DC 3.7V Supplied by PSU  
Mode : Transmitting Mode (1CH, 11CH)  
DBPSK (1Mbps) for IEEE 802.11b (DSSS)  
BPSK (6Mbps) for IEEE 802.11g (OFDM)  
Temperature : 25  
Humidity : 66 %  
Regulation : FCC Part15 C §15.247 (d)

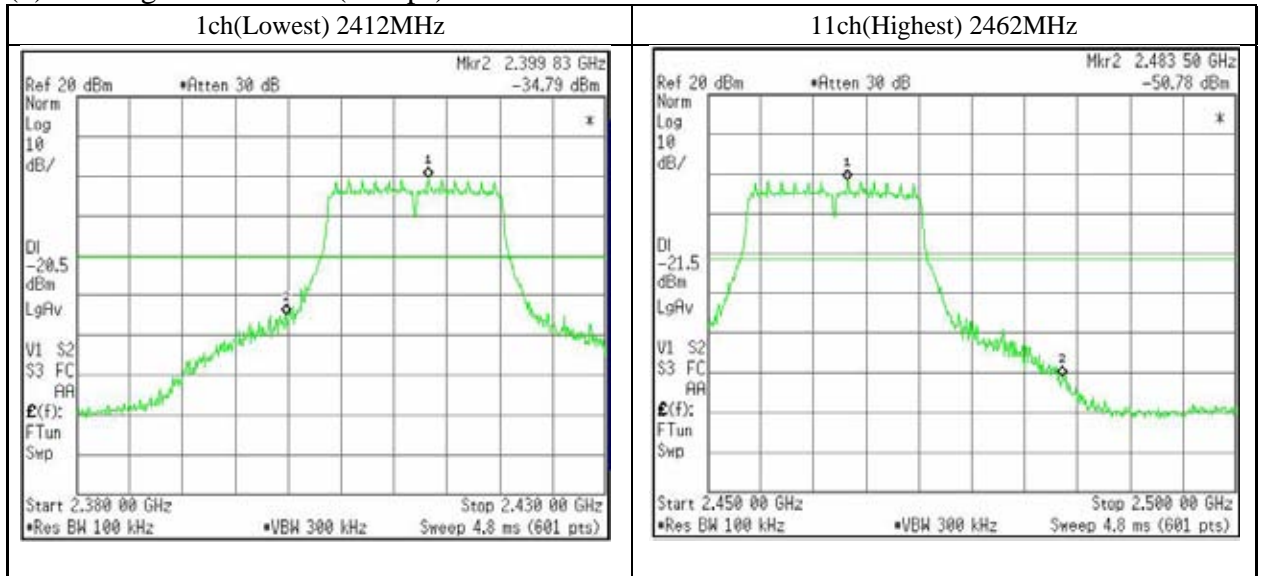
The spectrum data are attached next page. Display line indicates the 20dB offset below highest level. It shows compliance with the requirement in part 15.247(d).

### Data of Band Edge Compliance

(1) 802.11b Mode DBPSK (1Mbps)



(2) 802.11g Mode BPSK (6Mbps)



## 10 Spurious RF Conducted Emission

### 10.1 Test Setup

The spectrum analyzer was connected to the transmitter output port through the RF cable.

Spectrum Analyzer Setting:

Detector Mode	Peak
RBW	100kHz
VBW	300kHz
Sweep Time	Auto

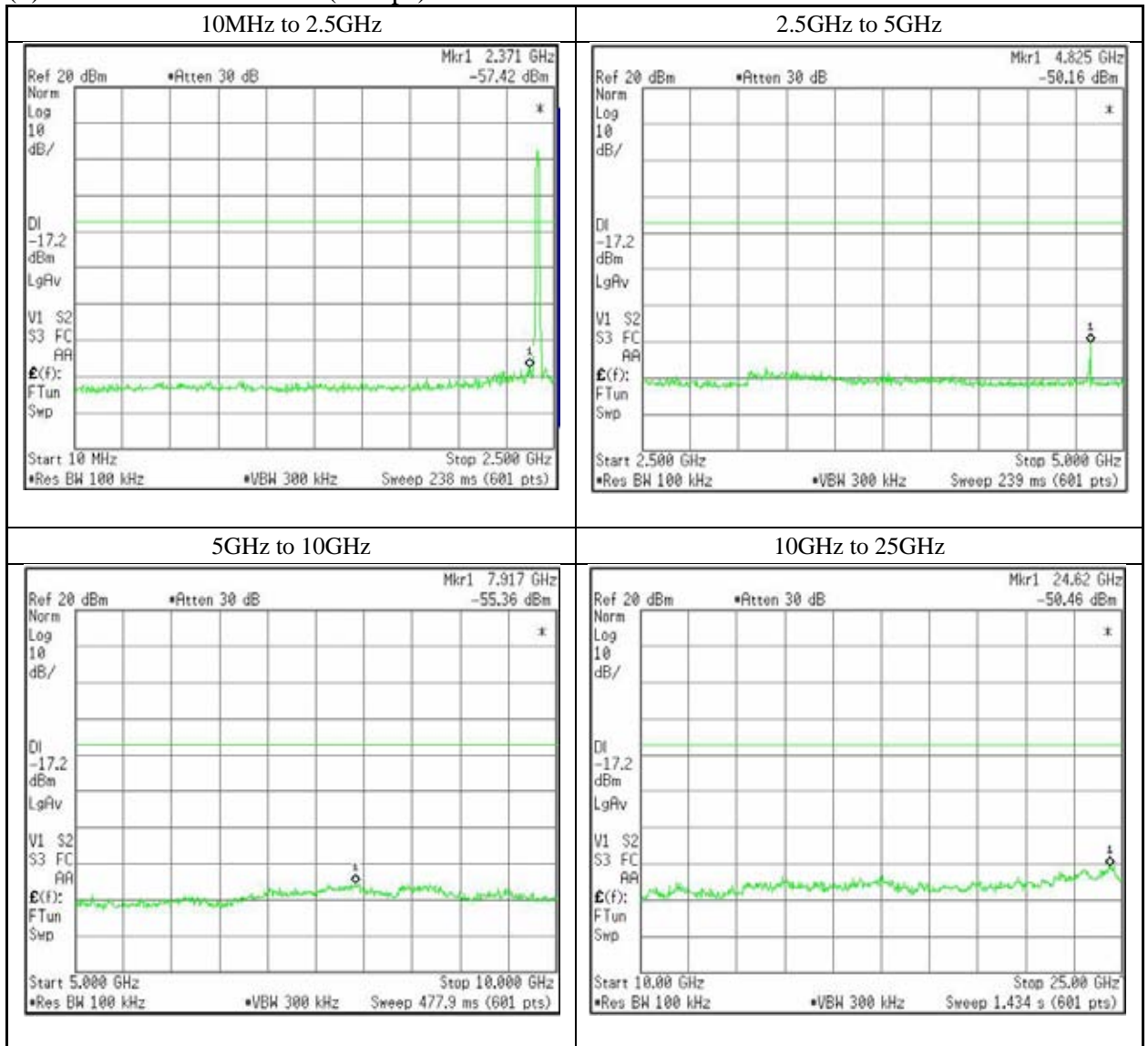
### 10.2 Test Results

Serial No. : MG1-A07-CH024-CSJ  
Power : DC 3.7V Supplied by PSU  
Mode : Transmitting Mode (1CH, 6CH, 11CH)  
DBPSK (1Mbps) for IEEE 802.11b (DSSS)  
BPSK (6Mbps) for IEEE 802.11g (OFDM)  
Temperature : 25  
Humidity : 66 %  
Regulation : FCC Part15 C §15.247 (d)

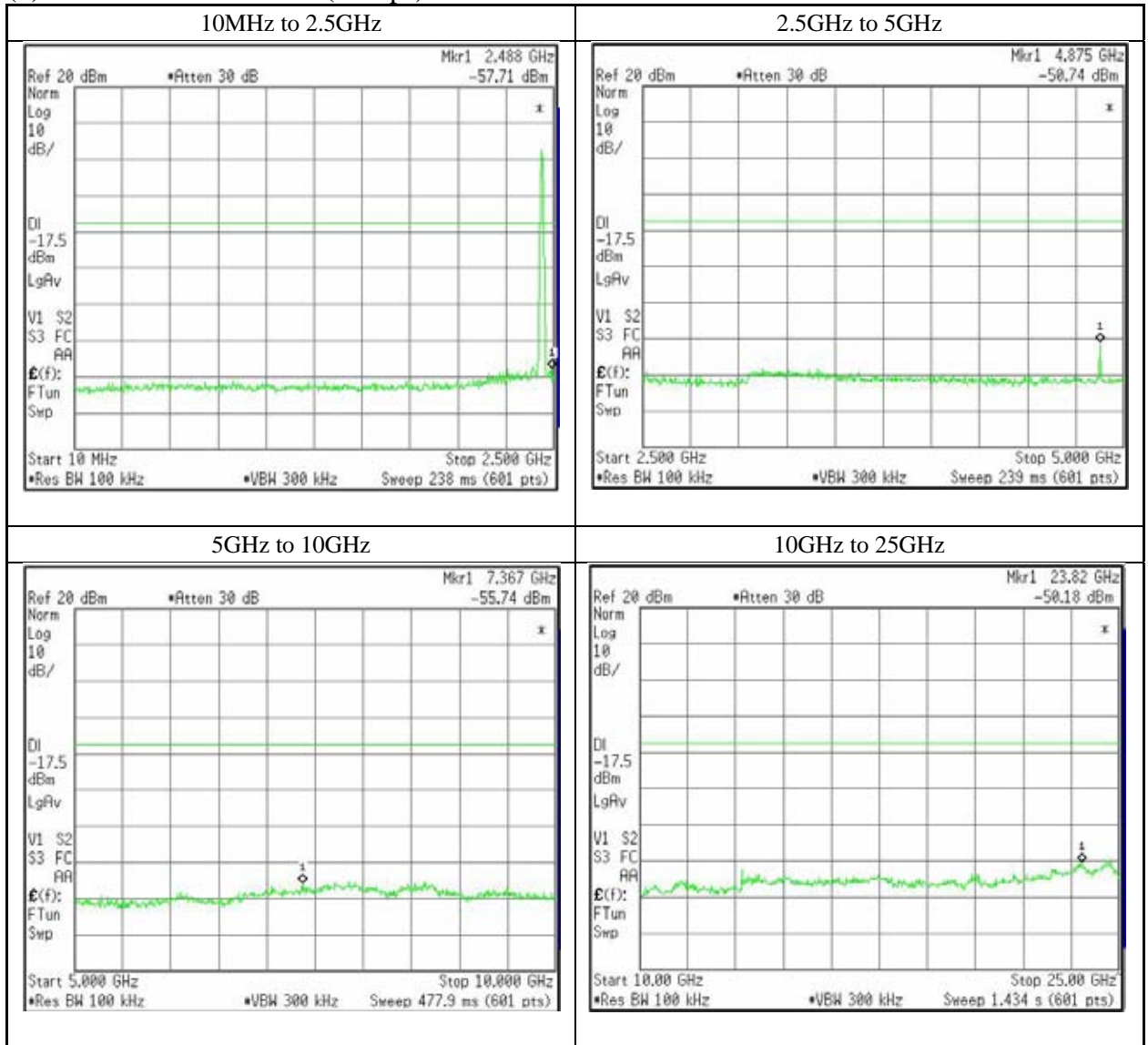
The spectrum data are attached next page. Display line indicates the 20dB offset below highest level. It shows compliance with the requirement in part 15.247(d).

### Data of Spurious Conducted Emission

(1) 802.11b Mode DBPSK (1Mbps): 2412MHz

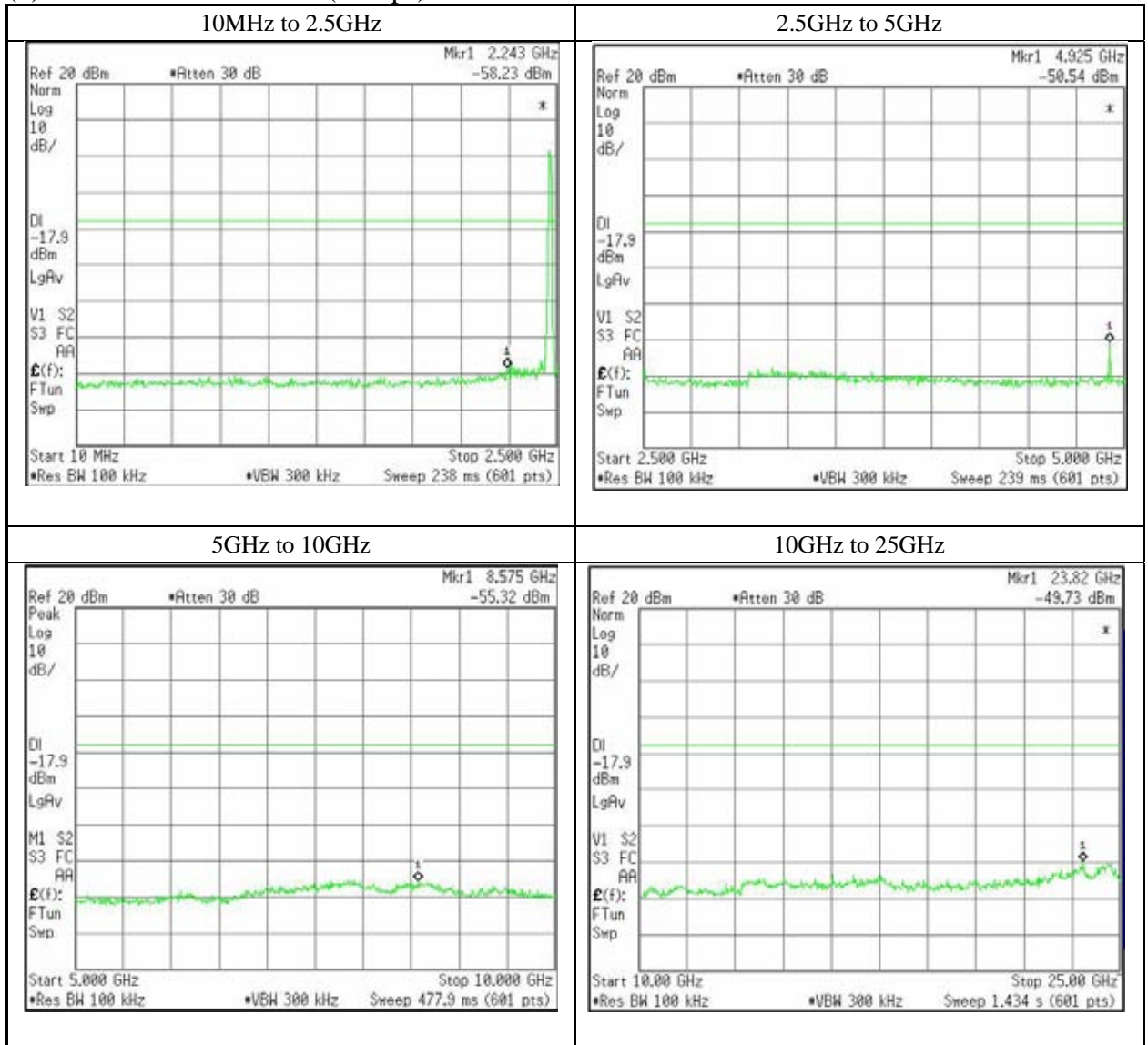


(2) 802.11b Mode DBPSK (1Mbps): 2437MHz

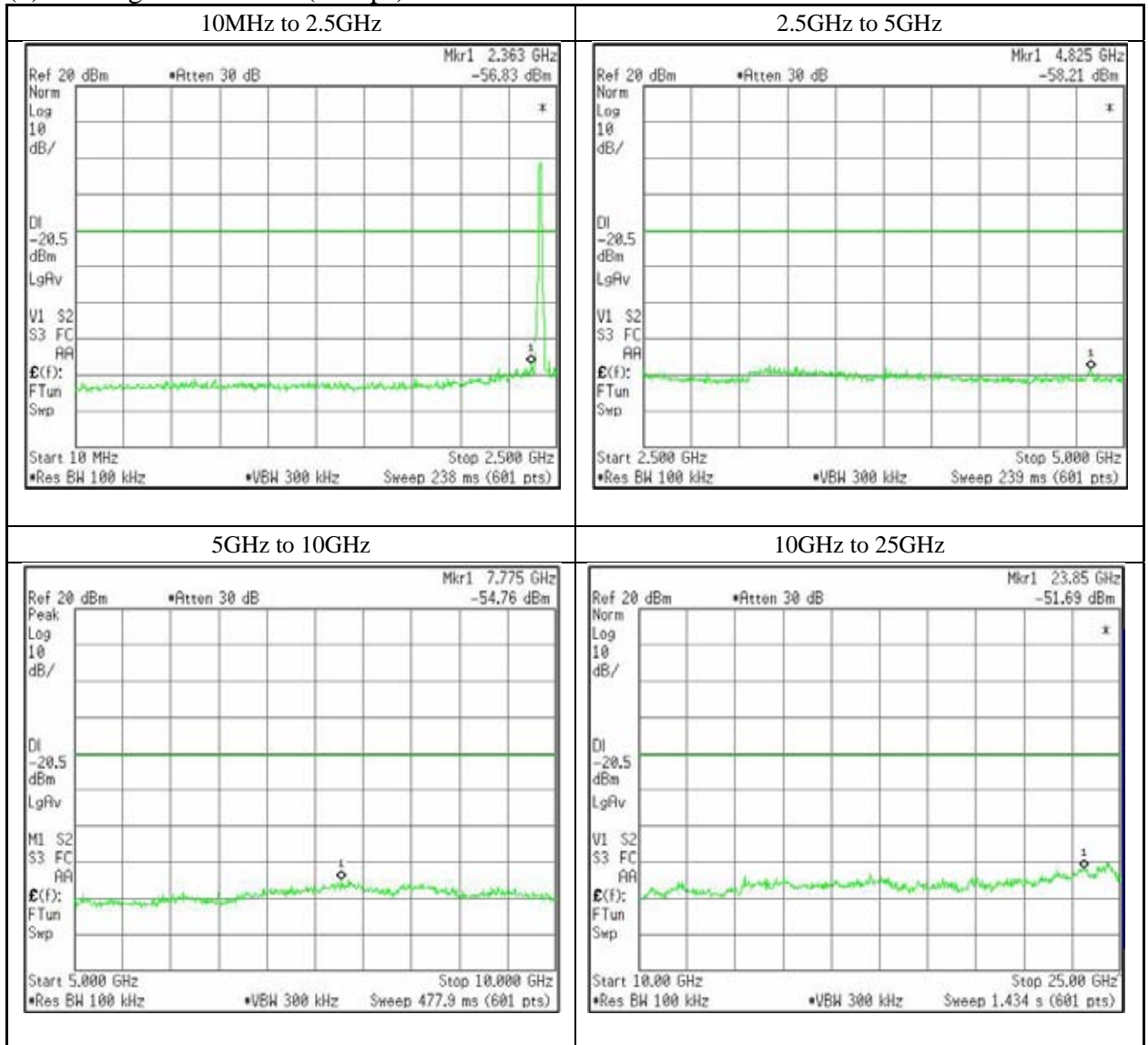




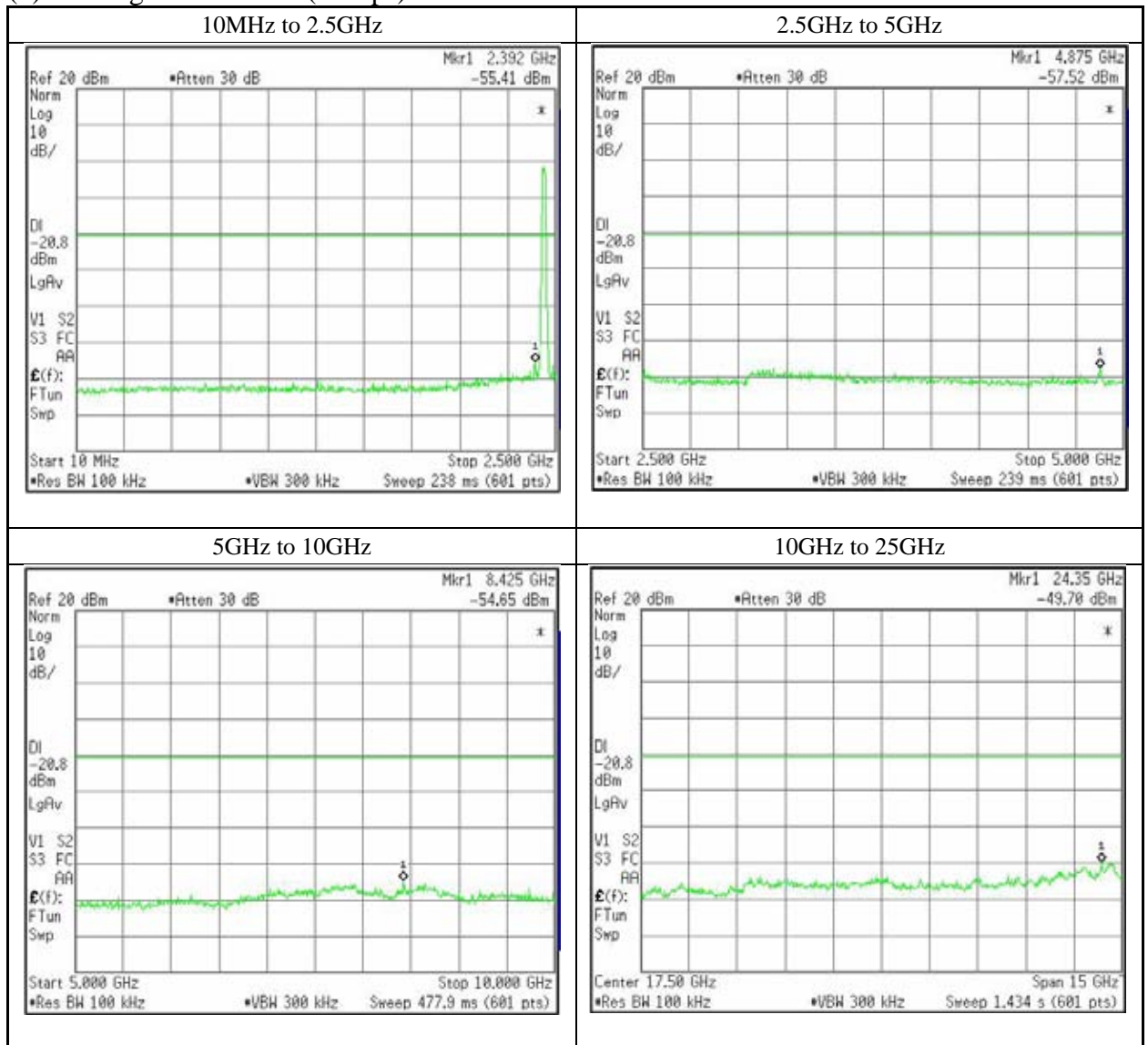
(3) 802.11b Mode DBPSK (1Mbps): 2462MHz



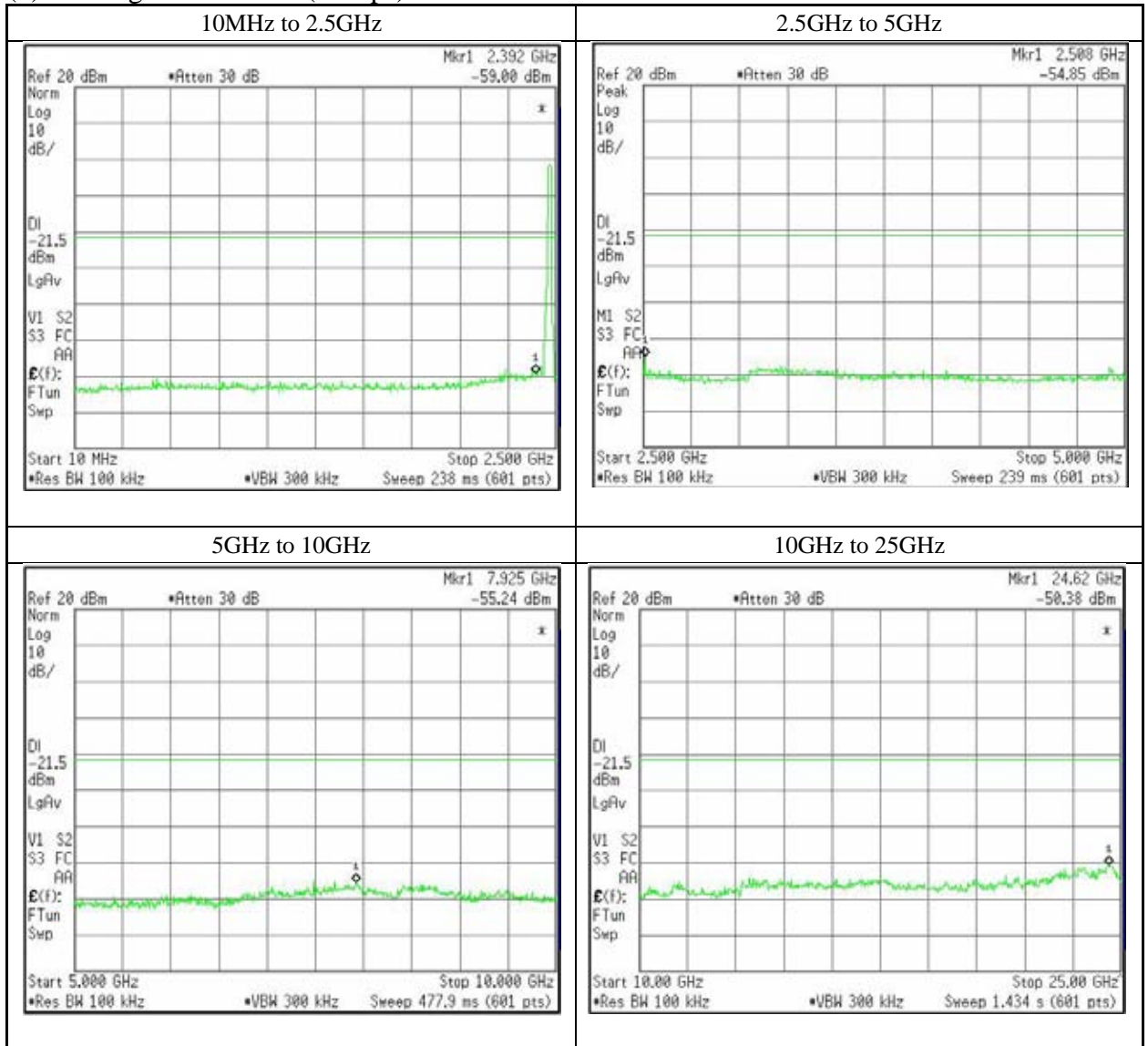
(4) 802.11g Mode BPSK (6Mbps): 2412MHz



(5) 802.11g Mode BPSK (6Mbps): 2437MHz



(6) 802.11g Mode BPSK (6Mbps): 2462MHz



## 11 Radiated Emission

### 11.1 Test Setup

The test setup was made according to ANSI STD C63.4-2003 clause 8 on the 10-meter semi-anechoic chamber, which allows a 3 or 1m distance measurement.

EUT was placed on non-conductive table (foam polystyrene).

The height of this table was 0.8m.

The measurement has been conducted with both horizontal and vertical antenna polarization.

The turntable has been fully rotated. The highest radiation of the equipment has been recorded.

For further description of the configuration refer to the pictures of this report.

Distance between equipment and antenna : 3m (30MHz to 18GHz)  
1m (18GHz to 25GHz)

#### Test Receiver Setting:

30~1000MHz:

Detector Mode	Quasi-Peak
Bandwidth	120kHz

#### Spectrum Analyzer Setting:

1~25GHz:

Detector Mode	Peak and Average
Bandwidth	Peak: RBW: 1MHz, VBW: 1MHz
	Average: RBW: 1MHz, VBW: 10Hz

### 11.2 Radiated Emission Calculation

The field strength is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain (if any) from the measured reading.

The basic equation with a sample calculation is as follows:

$$c.f. = AF + CF + AL - AG - DF$$

$$RE = RA + c.f.$$

- Where
- c.f. : Correction Factor [dB(1/m)]
  - RE : Radiated Emission (Emission Level - Result) [dB(uV/m)]
  - RA : Receiver Amplitude (Reading Level) [dBuV]
  - AF : Antenna Factor [dB(1/m)]
  - CF : Cable Attenuation Loss [dB]
  - AG : Amplifier Gain [dB]
  - AL : Attenuator Loss [dB]
  - DF : Distance Factor
  - Distance between equipment and antenna: 3m = 0 [dB]
  - Distance between equipment and antenna: 1m = 9.5 [dB]

Assume a receiver reading of 36.5dBuV is obtained.  
 The Correction Factor of -2.0dB/m is added, giving a Radiated Emission of 34.5dBuV/m.  
 The 34.5dBuV/m value was mathematically converted to its corresponding level in uV/m.

$$RE = 36.5 + (-2.0) = 34.5\text{dBuV/m}$$

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	259.310	36.5	-2.0	34.5	46.0	11.5	

$$\text{Level in uV/m} = \text{Common Antilogarithm: } 10^{(34.5/20)} = 53.1\text{uV/m}$$

### 11.3 Test Results

- Serial No. : MG1-A07-CH021-CSJ
- Power : DC 3.7V from Battery (DC 5.0V from AC Adaptor for Battery Charge)
- Mode : Transmitting Mode (1CH, 6CH, 11CH)  
 DBPSK (1Mbps) for IEEE 802.11b (DSSS)  
 BPSK (6Mbps) for IEEE 802.11g (OFDM)
- Temperature : Refer to spurious emission data.
- Humidity : Refer to spurious emission data.
- Regulation : FCC Part15 C §15.247 (d)

The spurious emission data are attached next page.

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.004	38.1	-1.7	36.4	46.0	9.6	
2	330.002	37.9	-4.7	33.2	46.0	12.8	

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.170	50.0	-4.0	46.0	74.0	28.0	
2	4824.000	44.3	3.3	47.6	74.0	26.4	
3	7236.000	43.5	4.4	47.9	74.0	26.1	Floor Noise
4	9648.000	44.6	7.1	51.7	74.0	22.3	
5	12060.000	44.8	8.5	53.3	74.0	20.7	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2363.750	47.6	-4.0	43.6	74.0	30.4	
2	4824.000	45.4	3.3	48.7	74.0	25.3	
3	9648.000	43.3	7.1	50.4	74.0	23.6	



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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.170	40.8	-4.0	36.8	54.0	17.2	
2	4824.000	35.9	3.3	39.2	54.0	14.8	
3	7236.000	31.7	4.4	36.1	54.0	17.9	Floor Noise
4	9648.000	33.1	7.1	40.2	54.0	13.8	
5	12060.000	33.0	8.5	41.5	54.0	12.5	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2363.750	36.2	-4.0	32.2	54.0	21.8	
2	4824.000	38.6	3.3	41.9	54.0	12.1	
3	9648.000	33.1	7.1	40.2	54.0	13.8	

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.007	39.7	-1.7	38.0	46.0	8.0	
2	330.004	37.6	-4.7	32.9	46.0	13.1	

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.670	47.0	-4.0	43.0	74.0	31.0	
2	4824.000	43.9	3.3	47.2	74.0	26.8	
3	7236.000	43.5	4.4	47.9	74.0	26.1	Floor Noise
4	9648.000	44.0	7.1	51.1	74.0	22.9	
5	12060.000	44.8	8.5	53.3	74.0	20.7	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2363.670	50.6	-4.0	46.6	74.0	27.4	
2	4824.000	44.9	3.3	48.2	74.0	25.8	
3	9648.000	44.6	7.1	51.7	74.0	22.3	

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 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.670	36.3	-4.0	32.3	54.0	21.7	
2	4824.000	33.1	3.3	36.4	54.0	17.6	
3	7236.000	31.7	4.4	36.1	54.0	17.9	Floor Noise
4	9648.000	32.5	7.1	39.6	54.0	14.4	
5	12060.000	33.0	8.5	41.5	54.0	12.5	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2363.670	40.6	-4.0	36.6	54.0	17.4	
2	4824.000	36.1	3.3	39.4	54.0	14.6	
3	9648.000	34.3	7.1	41.4	54.0	12.6	

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 Model No. : MET401  
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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.006	39.7	-1.7	38.0	46.0	8.0	
2	330.009	34.3	-4.7	29.6	46.0	16.4	

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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2363.830	50.6	-4.0	46.6	74.0	27.4	
2	4824.000	44.2	3.3	47.5	74.0	26.5	
3	7236.000	43.5	4.4	47.9	74.0	26.1	Floor Noise
4	9648.000	44.2	7.1	51.3	74.0	22.7	
5	12060.000	44.8	8.5	53.3	74.0	20.7	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4824.000	44.3	3.3	47.6	74.0	26.4	
2	9648.000	43.9	7.1	51.0	74.0	23.0	Floor Noise

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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Lch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2363.830	41.3	-4.0	37.3	54.0	16.7	
2	4824.000	36.2	3.3	39.5	54.0	14.5	
3	7236.000	31.7	4.4	36.1	54.0	17.9	Floor Noise
4	9648.000	33.2	7.1	40.3	54.0	13.7	
5	12060.000	33.0	8.5	41.5	54.0	12.5	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4824.000	35.7	3.3	39.0	54.0	15.0	
2	9648.000	31.7	7.1	38.8	54.0	15.2	Floor Noise

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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.004	40.5	-1.7	38.8	46.0	7.2	
2	330.011	37.2	-4.7	32.5	46.0	13.5	



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 Operator : Fukuda  
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 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2353.670	49.8	-4.2	45.6	74.0	28.4	
2	4874.000	44.0	3.4	47.4	74.0	26.6	
3	7311.000	44.2	4.9	49.1	74.0	24.9	Floor Noise
4	9748.000	43.9	7.3	51.2	74.0	22.8	
5	12185.000	44.4	8.5	52.9	74.0	21.1	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4874.000	45.5	3.4	48.9	74.0	25.1	
2	9748.000	43.7	7.3	51.0	74.0	23.0	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2353.670	40.0	-4.2	35.8	54.0	18.2	
2	4874.000	34.7	3.4	38.1	54.0	15.9	
3	7311.000	32.3	4.9	37.2	54.0	16.8	Floor Noise
4	9748.000	33.6	7.3	40.9	54.0	13.1	
5	12185.000	32.6	8.5	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4874.000	38.2	3.4	41.6	54.0	12.4	
2	9748.000	34.0	7.3	41.3	54.0	12.7	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.002	40.4	-1.7	38.7	46.0	7.3	
2	330.007	38.1	-4.7	33.4	46.0	12.6	

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 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2354.580	46.4	-4.2	42.2	74.0	31.8	
2	4874.000	42.6	3.4	46.0	74.0	28.0	
3	7311.000	44.2	4.9	49.1	74.0	24.9	Floor Noise
4	9748.000	43.8	7.3	51.1	74.0	22.9	
5	12185.000	44.4	8.5	52.9	74.0	21.1	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2354.000	50.2	-4.2	46.0	74.0	28.0	
2	4874.000	44.2	3.4	47.6	74.0	26.4	
3	9748.000	44.6	7.3	51.9	74.0	22.1	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2354.580	35.1	-4.2	30.9	54.0	23.1	
2	4874.000	32.3	3.4	35.7	54.0	18.3	
3	7311.000	32.3	4.9	37.2	54.0	16.8	Floor Noise
4	9748.000	32.8	7.3	40.1	54.0	13.9	
5	12185.000	32.6	8.5	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2354.000	41.1	-4.2	36.9	54.0	17.1	
2	4874.000	34.6	3.4	38.0	54.0	16.0	
3	9748.000	35.1	7.3	42.4	54.0	11.6	

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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.004	38.5	-1.7	36.8	46.0	9.2	
2	330.005	32.3	-4.7	27.6	46.0	18.4	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2353.330	50.2	-4.2	46.0	74.0	28.0	
2	4874.000	44.9	3.4	48.3	74.0	25.7	
3	7311.000	44.2	4.9	49.1	74.0	24.9	Floor Noise
4	9748.000	43.9	7.3	51.2	74.0	22.8	
5	12185.000	44.4	8.5	52.9	74.0	21.1	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2353.920	46.5	-4.2	42.3	74.0	31.7	
2	4874.000	43.4	3.4	46.8	74.0	27.2	
3	9748.000	41.6	7.3	48.9	74.0	25.1	Floor Noise

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 11:56

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Mch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2353.330	39.7	-4.2	35.5	54.0	18.5	
2	4874.000	34.3	3.4	37.7	54.0	16.3	
3	7311.000	32.3	4.9	37.2	54.0	16.8	Floor Noise
4	9748.000	33.9	7.3	41.2	54.0	12.8	
5	12185.000	32.6	8.5	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2353.920	35.4	-4.2	31.2	54.0	22.8	
2	4874.000	32.8	3.4	36.2	54.0	17.8	
3	9748.000	31.6	7.3	38.9	54.0	15.1	Floor Noise



\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 26 June,2007 14:44

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.006	39.6	-1.7	37.9	46.0	8.1	
2	330.009	37.4	-4.7	32.7	46.0	13.3	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 11:56

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2239.730	49.5	-4.8	44.7	74.0	29.3	
2	4924.000	43.3	3.5	46.8	74.0	27.2	Floor Noise
3	7386.000	44.6	5.3	49.9	74.0	24.1	Floor Noise
4	9848.000	43.7	7.6	51.3	74.0	22.7	
5	12310.000	44.1	8.7	52.8	74.0	21.2	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	45.0	3.5	48.5	74.0	25.5	
2	9848.000	44.2	7.6	51.8	74.0	22.2	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 11:56

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2239.730	38.9	-4.8	34.1	54.0	19.9	
2	4924.000	31.0	3.5	34.5	54.0	19.5	Floor Noise
3	7386.000	32.5	5.3	37.8	54.0	16.2	Floor Noise
4	9848.000	34.0	7.6	41.6	54.0	12.4	
5	12310.000	32.4	8.7	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	37.3	3.5	40.8	54.0	13.2	
2	9848.000	32.7	7.6	40.3	54.0	13.7	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 26 June,2007 14:44

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.007	38.8	-1.7	37.1	46.0	8.9	
2	330.005	37.5	-4.7	32.8	46.0	13.2	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 11:56

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	43.5	3.5	47.0	74.0	27.0	
2	7386.000	44.6	5.3	49.9	74.0	24.1	Floor Noise
3	9848.000	43.7	7.6	51.3	74.0	22.7	
4	12310.000	44.1	8.7	52.8	74.0	21.2	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2243.000	49.0	-4.8	44.2	74.0	29.8	
2	4924.000	45.0	3.5	48.5	74.0	25.5	
3	9848.000	44.9	7.6	52.5	74.0	21.5	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 11:56

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	32.5	3.5	36.0	54.0	18.0	
2	7386.000	32.5	5.3	37.8	54.0	16.2	Floor Noise
3	9848.000	33.4	7.6	41.0	54.0	13.0	
4	12310.000	32.4	8.7	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2243.000	38.6	-4.8	33.8	54.0	20.2	
2	4924.000	35.2	3.5	38.7	54.0	15.3	
3	9848.000	35.9	7.6	43.5	54.0	10.5	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 26 June,2007 14:44

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.002	36.5	-1.7	34.8	46.0	11.2	
2	330.006	35.4	-4.7	30.7	46.0	15.3	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2240.030	49.2	-4.8	44.4	74.0	29.6	
2	4924.000	44.8	3.5	48.3	74.0	25.7	
3	7386.000	44.6	5.3	49.9	74.0	24.1	Floor Noise
4	9848.000	44.4	7.6	52.0	74.0	22.0	
5	12310.000	44.1	8.7	52.8	74.0	21.2	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	44.1	3.5	47.6	74.0	26.4	
2	9848.000	44.5	7.6	52.1	74.0	21.9	



\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 23.3 / 61.0%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11b (1Mbps)  
 Remark3 : Hch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2240.030	39.8	-4.8	35.0	54.0	19.0	
2	4924.000	35.8	3.5	39.3	54.0	14.7	
3	7386.000	32.5	5.3	37.8	54.0	16.2	Floor Noise
4	9848.000	34.4	7.6	42.0	54.0	12.0	
5	12310.000	32.4	8.7	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	33.3	3.5	36.8	54.0	17.2	
2	9848.000	33.1	7.6	40.7	54.0	13.3	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 27 June,2007 09:57

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.6 / 69.3%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.004	39.3	-1.7	37.6	46.0	8.4	
2	330.003	35.8	-4.7	31.1	46.0	14.9	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 20:48

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.270	54.2	-4.0	50.2	74.0	23.8	
2	4824.000	44.5	3.3	47.8	74.0	26.2	
3	7236.000	43.5	4.4	47.9	74.0	26.1	Floor Noise
4	9648.000	44.1	7.1	51.2	74.0	22.8	
5	12060.000	44.8	8.5	53.3	74.0	20.7	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2365.470	48.0	-4.0	44.0	74.0	30.0	
2	4824.000	43.7	3.3	47.0	74.0	27.0	
3	9648.000	43.2	7.1	50.3	74.0	23.7	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 20:48

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.270	42.7	-4.0	38.7	54.0	15.3	
2	4824.000	35.0	3.3	38.3	54.0	15.7	
3	7236.000	31.7	4.4	36.1	54.0	17.9	Floor Noise
4	9648.000	33.4	7.1	40.5	54.0	13.5	
5	12060.000	33.0	8.5	41.5	54.0	12.5	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2365.470	36.2	-4.0	32.2	54.0	21.8	
2	4824.000	34.3	3.3	37.6	54.0	16.4	
3	9648.000	31.9	7.1	39.0	54.0	15.0	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 27 June,2007 09:57

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.6 / 69.3%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.004	39.2	-1.7	37.5	46.0	8.5	
2	330.005	36.9	-4.7	32.2	46.0	13.8	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 20:48

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.400	50.0	-4.0	46.0	74.0	28.0	
2	4824.000	44.7	3.3	48.0	74.0	26.0	
3	7236.000	43.5	4.4	47.9	74.0	26.1	Floor Noise
4	9648.000	43.3	7.1	50.4	74.0	23.6	
5	12060.000	44.8	8.5	53.3	74.0	20.7	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.400	53.2	-4.0	49.2	74.0	24.8	
2	4824.000	43.7	3.3	47.0	74.0	27.0	
3	9648.000	43.5	7.1	50.6	74.0	23.4	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 20:48

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.400	37.3	-4.0	33.3	54.0	20.7	
2	4824.000	34.8	3.3	38.1	54.0	15.9	
3	7236.000	31.7	4.4	36.1	54.0	17.9	Floor Noise
4	9648.000	32.4	7.1	39.5	54.0	14.5	
5	12060.000	33.0	8.5	41.5	54.0	12.5	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.400	42.0	-4.0	38.0	54.0	16.0	
2	4824.000	34.3	3.3	37.6	54.0	16.4	
3	9648.000	33.1	7.1	40.2	54.0	13.8	

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 27 June,2007 09:57

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.6 / 69.3%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.003	38.2	-1.7	36.5	46.0	9.5	
2	330.005	34.5	-4.7	29.8	46.0	16.2	



\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 20:48

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.470	49.7	-4.0	45.7	74.0	28.3	
2	4824.000	44.6	3.3	47.9	74.0	26.1	
3	7236.000	43.5	4.4	47.9	74.0	26.1	Floor Noise
4	9648.000	44.3	7.1	51.4	74.0	22.6	
5	12060.000	44.8	8.5	53.3	74.0	20.7	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.730	49.8	-4.0	45.8	74.0	28.2	
2	4824.000	45.0	3.3	48.3	74.0	25.7	
3	9648.000	43.9	7.1	51.0	74.0	23.0	Floor Noise

\*\*\*\*\* TAIYO YUDEN CO.,LTD. \*\*\*\*\*  
 <<6384F>> 25 June,2007 20:48

Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Lch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.470	37.5	-4.0	33.5	54.0	20.5	
2	4824.000	35.4	3.3	38.7	54.0	15.3	
3	7236.000	31.7	4.4	36.1	54.0	17.9	Floor Noise
4	9648.000	32.3	7.1	39.4	54.0	14.6	
5	12060.000	33.0	8.5	41.5	54.0	12.5	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2364.730	38.1	-4.0	34.1	54.0	19.9	
2	4824.000	35.3	3.3	38.6	54.0	15.4	
3	9648.000	31.7	7.1	38.8	54.0	15.2	Floor Noise

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.6 / 69.3%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.003	38.9	-1.7	37.2	46.0	8.8	
2	330.004	38.0	-4.7	33.3	46.0	12.7	

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.270	53.3	-3.8	49.5	74.0	24.5	
2	4874.000	44.0	3.4	47.4	74.0	26.6	
3	7311.000	44.2	4.9	49.1	74.0	24.9	Floor Noise
4	9748.000	43.8	7.3	51.1	74.0	22.9	
5	12185.000	44.4	8.5	52.9	74.0	21.1	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.700	46.2	-3.8	42.4	74.0	31.6	
2	4874.000	44.2	3.4	47.6	74.0	26.4	
3	9748.000	42.9	7.3	50.2	74.0	23.8	

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 Model No. : MET401  
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 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.270	41.6	-3.8	37.8	54.0	16.2	
2	4874.000	34.4	3.4	37.8	54.0	16.2	
3	7311.000	32.3	4.9	37.2	54.0	16.8	Floor Noise
4	9748.000	33.6	7.3	40.9	54.0	13.1	
5	12185.000	32.6	8.5	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.700	34.3	-3.8	30.5	54.0	23.5	
2	4874.000	34.1	3.4	37.5	54.0	16.5	
3	9748.000	33.0	7.3	40.3	54.0	13.7	

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 Model No. : MET401  
 Serial No. : MG1-A07-CH021-CSJ  
 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.6 / 69.3%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.003	38.7	-1.7	37.0	46.0	9.0	
2	330.004	36.9	-4.7	32.2	46.0	13.8	

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Standard : FCC Part15 Subpart C §15.247(d)  
 Model No. : MET401  
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 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.3 / 64.1%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.800	46.6	-3.8	42.8	74.0	31.2	
2	4874.000	43.0	3.4	46.4	74.0	27.6	
3	7311.000	44.2	4.9	49.1	74.0	24.9	Floor Noise
4	9748.000	43.7	7.3	51.0	74.0	23.0	
5	12185.000	44.4	8.5	52.9	74.0	21.1	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.330	53.2	-3.8	49.4	74.0	24.6	
2	4874.000	43.6	3.4	47.0	74.0	27.0	
3	9748.000	44.0	7.3	51.3	74.0	22.7	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.800	34.7	-3.8	30.9	54.0	23.1	
2	4874.000	32.4	3.4	35.8	54.0	18.2	
3	7311.000	32.3	4.9	37.2	54.0	16.8	Floor Noise
4	9748.000	33.1	7.3	40.4	54.0	13.6	
5	12185.000	32.6	8.5	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.330	41.5	-3.8	37.7	54.0	16.3	
2	4874.000	33.0	3.4	36.4	54.0	17.6	
3	9748.000	33.8	7.3	41.1	54.0	12.9	



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 Operator : Fukuda  
 Power Supply : DC 3.7V from Battery  
 Temp./Humid. : 24.6 / 69.3%  
 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.003	39.4	-1.7	37.7	46.0	8.3	
2	330.004	33.5	-4.7	28.8	46.0	17.2	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
 Remark4 : ZX

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.500	52.1	-3.8	48.3	74.0	25.7	
2	4874.000	44.4	3.4	47.8	74.0	26.2	
3	7311.000	44.2	4.9	49.1	74.0	24.9	Floor Noise
4	9748.000	44.3	7.3	51.6	74.0	22.4	
5	12185.000	44.4	8.5	52.9	74.0	21.1	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.400	48.8	-3.8	45.0	74.0	29.0	
2	4874.000	43.0	3.4	46.4	74.0	27.6	
3	9748.000	41.6	7.3	48.9	74.0	25.1	Floor Noise

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 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Mch  
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Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.500	40.4	-3.8	36.6	54.0	17.4	
2	4874.000	34.8	3.4	38.2	54.0	15.8	
3	7311.000	32.3	4.9	37.2	54.0	16.8	Floor Noise
4	9748.000	33.5	7.3	40.8	54.0	13.2	
5	12185.000	32.6	8.5	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2389.400	36.5	-3.8	32.7	54.0	21.3	
2	4874.000	32.8	3.4	36.2	54.0	17.8	
3	9748.000	31.6	7.3	38.9	54.0	15.1	Floor Noise

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Hch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.006	39.4	-1.7	37.7	46.0	8.3	
2	330.005	38.2	-4.7	33.5	46.0	12.5	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Hch  
 Remark4 : XY

Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2375.470	48.9	-3.9	45.0	74.0	29.0	
2	4924.000	44.6	3.5	48.1	74.0	25.9	
3	7386.000	44.6	5.3	49.9	74.0	24.1	Floor Noise
4	9848.000	45.4	7.6	53.0	74.0	21.0	
5	12310.000	44.1	8.7	52.8	74.0	21.2	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	44.2	3.5	47.7	74.0	26.3	
2	9848.000	44.1	7.6	51.7	74.0	22.3	

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No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2375.470	37.5	-3.9	33.6	54.0	20.4	
2	4924.000	34.5	3.5	38.0	54.0	16.0	
3	7386.000	32.5	5.3	37.8	54.0	16.2	Floor Noise
4	9848.000	34.6	7.6	42.2	54.0	11.8	
5	12310.000	32.4	8.7	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	34.0	3.5	37.5	54.0	16.5	
2	9848.000	33.1	7.6	40.7	54.0	13.3	

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 Remark1 : Transmitting Mode  
 Remark2 : IEEE 802.11g (6Mbps)  
 Remark3 : Hch  
 Remark4 : YZ

Final Result

--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.005	39.8	-1.7	38.1	46.0	7.9	
2	330.003	36.2	-4.7	31.5	46.0	14.5	

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--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	44.2	3.5	47.7	74.0	26.3	
2	7386.000	44.6	5.3	49.9	74.0	24.1	Floor Noise
3	9848.000	44.6	7.6	52.2	74.0	21.8	
4	12310.000	44.1	8.7	52.8	74.0	21.2	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2374.500	50.2	-3.9	46.3	74.0	27.7	
2	4924.000	44.6	3.5	48.1	74.0	25.9	
3	9848.000	44.4	7.6	52.0	74.0	22.0	



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No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	34.7	3.5	38.2	54.0	15.8	
2	7386.000	32.5	5.3	37.8	54.0	16.2	Floor Noise
3	9848.000	33.3	7.6	40.9	54.0	13.1	
4	12310.000	32.4	8.7	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2374.500	38.2	-3.9	34.3	54.0	19.7	
2	4924.000	34.5	3.5	38.0	54.0	16.0	
3	9848.000	35.2	7.6	42.8	54.0	11.2	

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--- Horizontal Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	264.005	39.9	-1.7	38.2	46.0	7.8	
2	330.002	33.6	-4.7	28.9	46.0	17.1	

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Final Result

--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2374.920	50.5	-3.9	46.6	74.0	27.4	
2	4924.000	44.7	3.5	48.2	74.0	25.8	
3	7386.000	44.6	5.3	49.9	74.0	24.1	Floor Noise
4	9848.000	44.5	7.6	52.1	74.0	21.9	
5	12310.000	44.1	8.7	52.8	74.0	21.2	Floor Noise

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	43.5	3.5	47.0	74.0	27.0	
2	9848.000	44.4	7.6	52.0	74.0	22.0	

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Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	2374.920	38.4	-3.9	34.5	54.0	19.5	
2	4924.000	36.5	3.5	40.0	54.0	14.0	
3	7386.000	32.5	5.3	37.8	54.0	16.2	Floor Noise
4	9848.000	34.3	7.6	41.9	54.0	12.1	
5	12310.000	32.4	8.7	41.1	54.0	12.9	Floor Noise

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Remark
1	4924.000	33.1	3.5	36.6	54.0	17.4	
2	9848.000	32.7	7.6	40.3	54.0	13.7	

## 12 Peak Power Spectral Density

### 12.1 Test Setup

The test is performed in accordance with FCC Document "Measurement of Transmission Systems Operating under section 15.247". PSD Option 1 is used.

The spectrum analyzer was connected to the transmitter output port through the RF cable.

Spectrum Analyzer Setting:

Detector Mode	Peak
RBW	3kHz
VBW	10kHz
Span	10kHz
Sweep Time	4s

### 12.2 Test Results

Serial No. : MG1-A07-CH024-CSJ  
 Power : DC 3.7V Supplied by PSU  
 Mode : Transmitting Mode (1CH, 6CH, 11CH)  
         DBPSK (1Mbps) for IEEE 802.11b (DSSS)  
         BPSK (6Mbps) for IEEE 802.11g (OFDM)  
 Temperature : 25  
 Humidity : 66 %  
 Regulation : FCC Part15 C §15.247 (e)

CH	Frequency [MHz]	Reading [dBm]	Cable Loss1 [dB]	Cable Loss2 [dB]	Result [dBm]	Limit [dBm/3kHz]
802.11b Mode DBPSK (1Mbps)						
1ch(Lowest)	2412	-10.83	0.60	0.40	9.83	<=8
6ch(Middle)	2437	-12.38	0.57	0.40	-11.41	<=8
11ch(Highest)	2462	-11.67	0.65	0.40	-10.62	<=8
802.11g Mode BPSK (6Mbps)						
1ch(Lowest)	2412	-14.81	0.60	0.40	-13.81	<=8
6ch(Middle)	2437	-15.69	0.57	0.40	-16.63	<=8
11ch(Highest)	2462	-15.40	0.65	0.40	-16.62	<=8

Result = Reading + Cable Loss

Note: Cable Loss1: RF2-2

Cable Loss2: Conversion cable used for connecting to SMA type

## 13 Photos of Tested EUT

Δ2

Setup photo with EUT has been submitted as separate document named “Test Setup Photos (6384F-3)”.  
Page No. 2 / 4 of the separated document contains photos intended on this page.

## 14 Photos of Test Setup

### Photos of Conducted Measurement

$\Delta 2$

Setup photo with EUT has been submitted as separate document named "Test Setup Photos (6384F-3)".  
Page No. 3 / 4 of the separated document contains photos intended on this page.

## Photos of Radiated Measurement

Δ2

Setup photo with EUT has been submitted as separate document named "Test Setup Photos (6384F-3)".  
Page No. 4 / 4 of the separated document contains photos intended on this page.



# Appendix 1: Certificate of Accreditation

United States Department of Commerce  
National Institute of Standards and Technology

**NVLAP**<sup>®</sup>

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**Certificate of Accreditation to ISO/IEC 17025:2005**

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NVLAP LAB CODE: 200607-0

**Taiyo Yuden Co., Ltd. EMC Center**  
Takasaki-shi Gunma 370-3347  
JAPAN

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communique dated 18 June 2005).*

2006-10-01 through 2007-09-30  
*Effective dates*



*Dolly S. Bruce*  
For the National Institute of Standards and Technology

NVLAP-01C (REV. 2006-09-13)

## Appendix 2: Test Instruments

### 1. Conducted Emission Test

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date (Interval (year))	
Shielded Room	TDK Co., Ltd	DA-06912	-	-	
EMI Test Receiver	Rohde & Schwarz	ESHS 10	100005	31 July 2006 (1)	
Spectrum Analyzer	HP	8567A	3001A00673	30 June 2006 (1)	
AMN / LISN	KYORITSU ELECTRICAL WORK	KNW-407	8-680-1	13 March 2006 (2)	
Cable	SUHNER	RG223	CE-1	11 May 2007 (1)	
		RG223	CE-2	11 May 2007 (1)	
		RG2214	CE-3	11 May 2007 (1)	
Attenuator	KYORITSU	KPD-602	5K325	11 May 2007 (1)	
RF Selector	TDK Co., Ltd	NS4900	0302-009	11 May 2007 (1)	
Hydro Thermograph	SEKONIC	ST-200	HD01-000779	7 February 2007 (1)	
Software	TOYO Corporation	EP5/CE Ver.2.0	0208085	-	

### 2. Conducted RF Test via Antenna Terminal

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date (Interval (year))	
Spectrum Analyzer	Rohde & Schwarz	FSIQ26	840061/0004	14 February 2007 (1)	
Spectrum Analyzer	Agilent Technologies	E4446A	US42070181	13 November 2006 (1)	
Power Meter	Agilent Technologies	N1911A	MY45100612	8 June 2007 (1)	
Power Sensor	Agilent Technologies	N1922A	MY45240439	8 June 2007 (1)	
RF Cable	SUHNER	SUCOFLEX 104E	RF2-2	4 July 2006 (1)	
RF Cable	SUHNER	SUCOFLEX 104E	RF3-3	17 April 2007 (1)	
Power Divider	Aeroflex / Inmet	6005-03	RF-8	4 July 2006 (1)	
Multi Meter	Agilent Technologies	34401A	MY41638383	5 June 2007 (1)	
Hydro Thermograph	SEKONIC	ST-200	HD01-000797	15 August 2006 (1)	

## 3. Radiated Emission Test

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date (Interval (year))	
10m Anechoic Chamber	TDK Co., Ltd.	DA-06912	-	5-9 February 2007 (1)	
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100148	31 July 2006 (1)	
Spectrum Analyzer	Agilent Technologies	E4407B	MY44221019	23 April 2007 (1)	
		E4446A	US42070181	13 November 2006 (1)	
Amplifier		83017A	3950M00169	2 October 2006 (1)	
		8447D	2944A06812	22 September 2006 (1)	
RF Selector	TDK Co., Ltd	NS4900	0302-010	22 September 2006 (1)	
Tunable Filter	TOYO Corporation	NF-49BT	No.1	2 October 2006 (1)	
RF Filter	Microtronics	ERM50702-01	020	2 October 2006 (1)	
RF Cable	SUHNER	RG214	RG 1	22 September 2006 (1)	
		RG214	RG 3	22 September 2006 (1)	
		RG214	RG 5	22 September 2006 (1)	
		RG214	RG 8	22 September 2006 (1)	
	HP	HP8120-4782	163 9232	22 September 2006 (1)	
	SUHNER	SUCOFLEX 106	SU1	2 October 2006 (1)	
		SUCOFLEX 103	SU5	2 October 2006 (1)	
		SUCOFLEX 103	SU6	2 October 2006 (1)	
HP	85381C	No.3	2 October 2006 (1)		
Attenuator	KYORITSU	KPD-602	220142	22 September 2006 (1)	
Antenna	Schwarzbeck	BBA9106	No.3	22 December 2006 (1)	
		UHALP9108-A	160	22 December 2006 (1)	
		VHA9103	No.3 (+D3-1, 2)	22 December 2006 (1)	
		UHA9105	No.3	22 December 2006 (1)	
	EMCO	3115	9403-4232	28 March 2007 (2)	
		3116	9311-2227	28 March 2007 (2)	
Hydro Thermograph	SEKONIC	ST-50	HE01-00511	7 February 2007 (1)	

Note:

- : Applied by measurement.
- : Not applied by measurement.