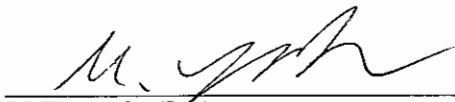
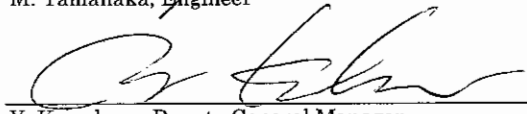


MEASUREMENT/TECHNICAL REPORT
FCC Part 15 Subpart C

Issued: September 17th, 2007

Name and Address of the Applicant:	Buffalo Inc. 15, Shibata Hondori 4-chome, Minami-ku, Nagoya, 457-5820, Japan
Test Item:	Wireless Broadband Router
Identification:	WHR-HP-G125
Serial No.:	---
FCC ID:	FDI-0910-1588-0
Sample Receipt Date:	July 30 th , 2007
Test Specification:	FCC Part 15 Subpart C, 15.247
Date of Testing:	August 7 th – September 8 th , 12 th , 2007
Test Result:	PASS

Report Prepared by:	Cosmos Corporation 2-3571 Ohnogi, Watarai-cho, Watarai-gun, Mie, Japan 516-2102 Phone: +81-596-63-0707 Fax: +81-596-63-0777
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Tested by:	 M. Yamanaka, Engineer	September 17 th , 2007 Date
Reviewed by:	 Y. Kawahara, Deputy General Manager	September 17 th , 2007 Date

- Notes:
1. This report should not be reproduced except in full, without the written approval of Cosmos Corporation.
 2. All measurement data contained in this report may have uncertainty. A judgment for the limitation should be taken into the count.
 3. The report in this report apply only to the sample tested.

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1. Description of Equipment Under Test

1.1 Product Description

Manufacturer : Buffalo Inc.
 Model (referred to as the EUT) : WHR-HP-G125
 Nominal Voltage : DC 5V
 Type of Modulation : DSSS, OFDM
 FCC ID : FDI-09101588-0
 Mode of Operation : duplex 1/2 duplex simplex other
 The type of the equipment : Stand-alone Combined Equipment
 Plug -In Card Other (Module Unit)
 The type of the antenna : Integral external Other
 The type of power source : AC mains Dedicated AC adapter (V)
 DC Voltage Battery
 The type of battery (if applicable) : N/A
 Type of Operation : Continuous Burst Intermittent
 Stand by Mode : Available N/A
 Intended functions : Wireless Broadband Router
 The bandwidth of the IF filters : N/A
 Method of Communication Link : Software to make maximum speed transmitting
 The operating frequency band : 2412 to 2462 MHz
 The thermal limitation : Max 40 degrees

1.2 Antenna Description

The following antenna is provided to EUT as the integrated original antenna.

No.	Type Name	Gain	Antenna Type	Remarks
1	BUF05-050900	4.0 dBi	Monopole	For US Model
2	WLE-MYG	6.0 dBi	Yagi	Option External Antenna
3	WLE-DA	4.0 dBi	Patch	Option External Antenna
4	WLE-HG-NDR	5.5 dBi	Sleeve	Option External Antenna

1.3 Accompanied Peripherals Description

The following equipment is accompanied with EUT as its peripheral.

No.	Equipment Name	Manufacturer	Type Name	Serial Number	Remarks
1	PC	IBM	X40	51-04-009	
2	Wireless LAN Cord	Buffalo	WLI-CB-G54S	36605174314936G	
3	AC Adapter	Buffalo	US100523	704-0424549	

2. General Information

2.1 Test Methodology

All measurement subject to the present report was carried out according to the procedures in ANSI C63.4: 2003.

2.2 Test Facility

All measurement was performed in the following facility;

Cosmos Corporation EMC Lab. Ohnogi

(2-3571 Ohaza-iwatachi, Ohnogi, Watarai-cho, Watarai-gun, Mie-ken 516-2102, Japan) The test firm has been filed since November 2, 2004 under CFR 47 Part.2.948.

2.3 Traceability

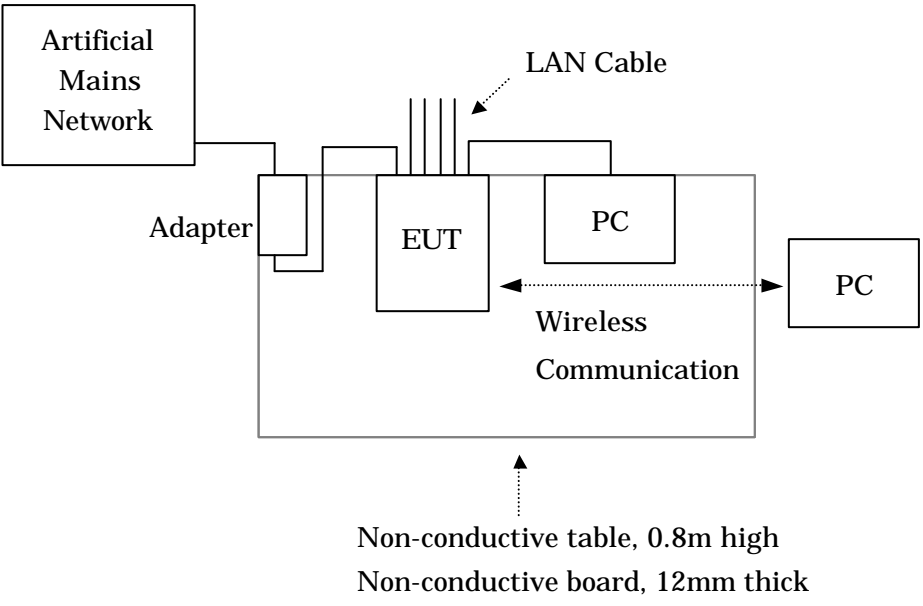
The calibration of measurement equipment used in the test subject to the present report is designed and operated to ensure that the measurement is traceable to national standards of measurement or equivalent abroad.

3. Summary of Test Results

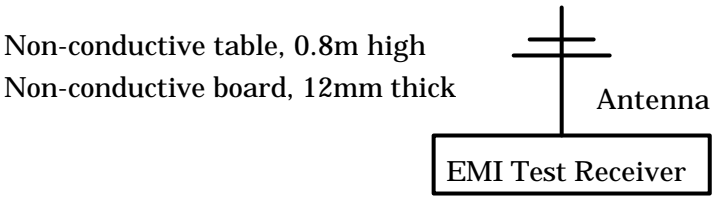
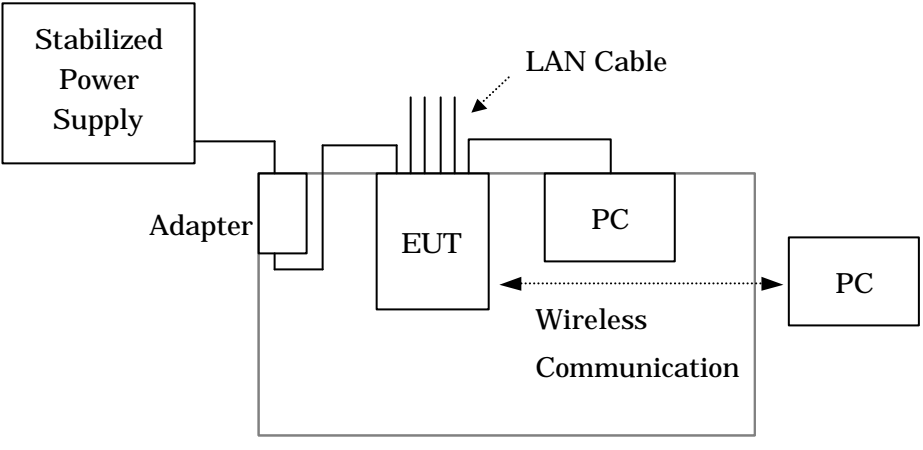
Section	Test Item	Limit	Result
15. 207	AC Power Conducted Emission	See 5.1.2	Pass
15. 247(a)(2)	Spectrum Bandwidth of Direct Sequence Spread Spectrum System	Min. 500kHz	Pass
15. 247(b)	Maximum Peak Output Power	Max. 30dBm	Pass
15. 247(c)	Transmitter Radiated Emissions	20dB less than the peak value	Pass
15. 247(d)	Power Spectrum Density	Max. 8dBm	Pass
15. 247(c)	Band Edge Measurement	See 5.7.2	Pass

4. Test Configuration

4.1 15. 207 AC Power Conducted Emission in Shield Room

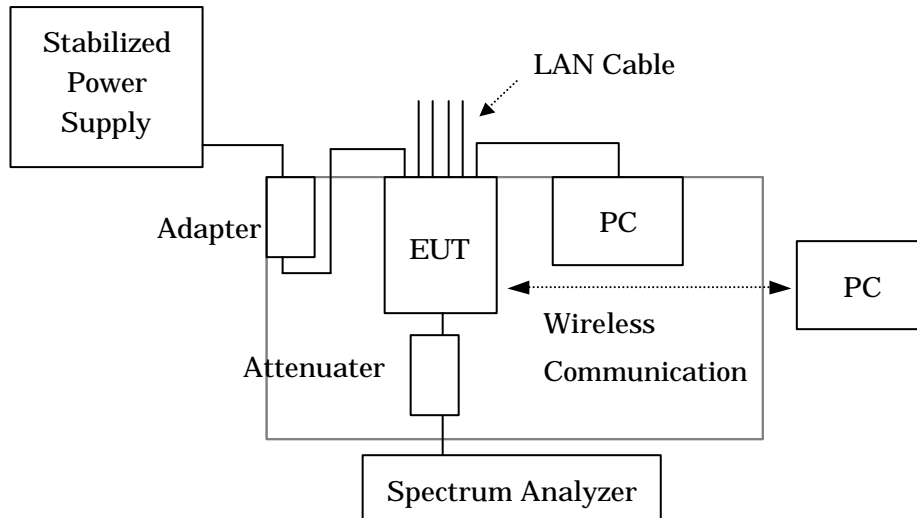


4.2 15. 247(c) Transmitter Radiated Emissions and Band Edge (Radiated) in 3m Anechoic Chamber

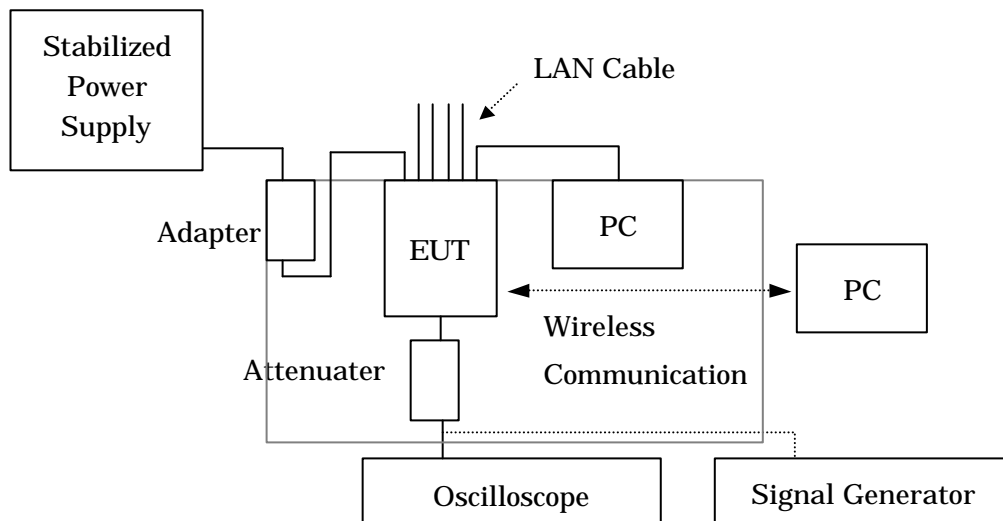


* One of PC was placed under the turn table

4.3 All Other Test Items (Except Maximum Peak Output Power)



4.4 Maximum Peak Output Power



4.5 Test Mode

In all test configurations above, EUT makes continuous RF transmitting with maximum power.

All conducted measurement is performed with an external stabilized power supply voltage varied between 85% and 115% of the nominal rated supply voltage in accordance with the section 15.31 (e) of the part.

5. Measurement Result

5.1 15. 207 AC Power Conducted Emission

5.1.1 Setting Remarks

- Configure the EUT System in accordance with ANSI C63.4-2003.
- A wooden test table (1.5m×1.0m, height 0.8m) is used.
- EUT's dedicated AC adapter connected to Artificial Mains Network (AMN).
- Other power cord of support equipment is connected to another AMN to isolate its emission from the measured emission of EUT.
- The measuring port of AMN for support equipment is terminated by the 500
- Activate the EUT System and run the software prepared for the test, if necessary.
- See test configuration figure 4.1.

5.1.2 Minimum Standard

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges. Then the final measurement was carried out on the section 15.247 (c) worst condition (Antenna: WLE-MYG).

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

5.1.3 Result

EUT complies with the requirement.

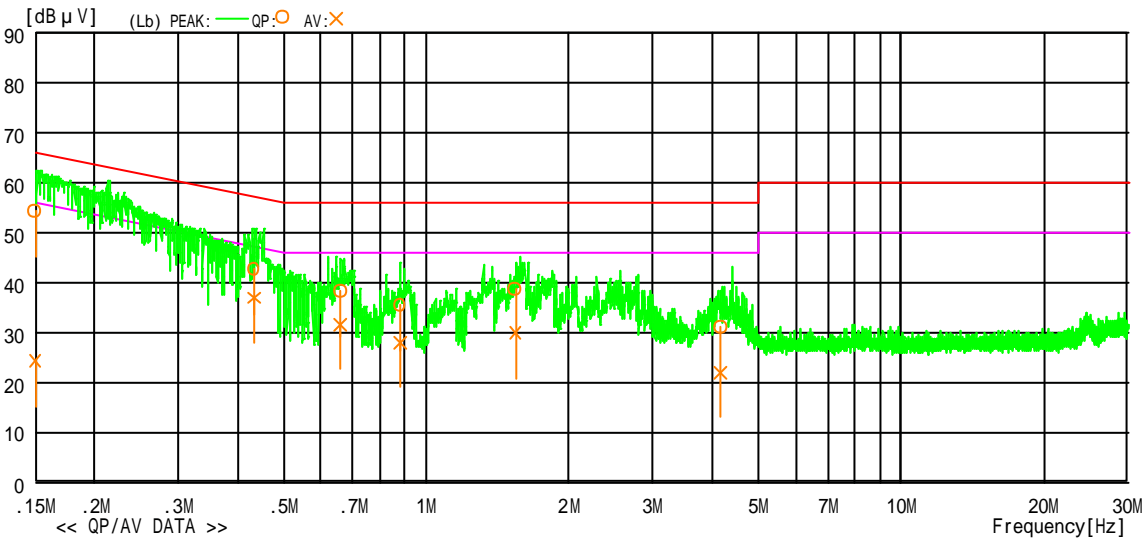
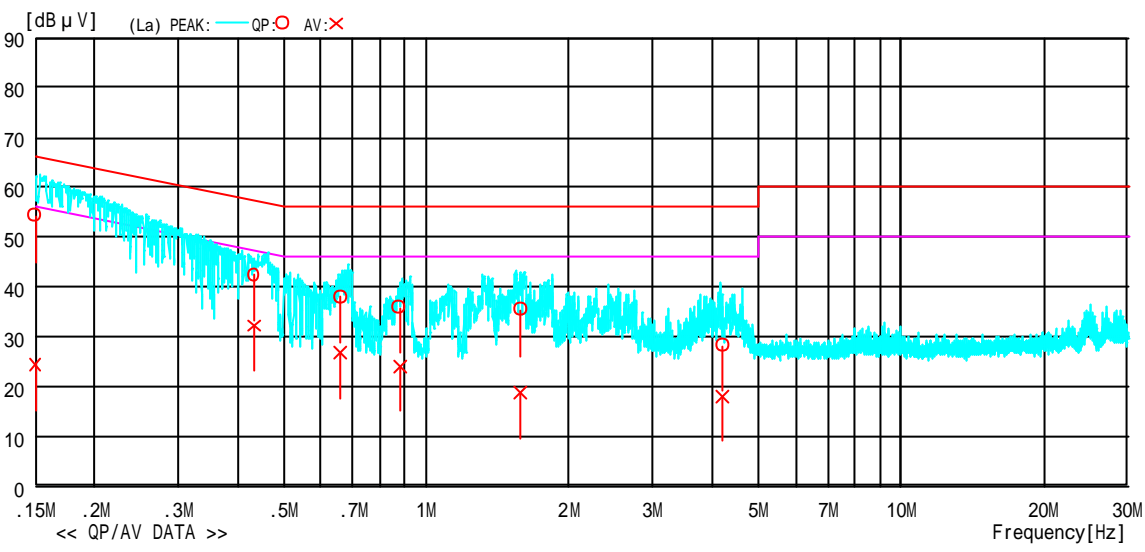
Uncertainty of measurement : ± 2.26 dB
 Temperature, Humidity : 23°C, 41 %

Peak Hold Wave Form

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp/Humi	: 23
Operator	: M.Yamanaka	Condition	: Ope
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-MYG

Memo : RBW:9kHz(150kHz~30MHz)

LIMIT : FCC 15.207(QP)
 FCC 15.207(AV)



5.2 15. 247(a)(2) Spectrum Bandwidth of Direct Sequence Spread Spectrum System

5.2.1 Setting Remarks

- The both side of 6dB down value from peak power are measured by using delta-maker function of the spectrum analyzer.
- The spectrum analyzer is set-up as following;

Frequency Span	: 30 MHz
Resolution bandwidth	: 100 kHz
Video bandwidth	: 300 kHz
Sweep	: 1sec
Detector function	: Peak
Trace Mode	: Max Hold

- See test configuration figure 4.1.

5.2.2 Minimum Standard

(2) Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2.3 Result

EUT complies with the requirement.

Uncertainty of measurement result: ± 0.8 dB
 Temperature, Humidity : 26°C, 51 %

5.2.4 Measured Data

Frequency (MHz)	Measured Bandwidth (MHz)	Limit (MHz)
CCK (11Mbps)		
2412 (1ch)	10.38	> 0.5
2437 (6ch)	9.66	> 0.5
2462 (11ch)	10.68	> 0.5
OFDM (54 Mbps)		
2412 (1ch)	16.38	> 0.5
2437 (6ch)	16.56	> 0.5
2462 (11ch)	16.32	> 0.5

5.3 15. 247(b) Maximum Peak Output Power

5.3.1 Setting Remarks

- See test configuration figure 4.4.
- The maximum peak output power is measured as following;
 1. The diode detector is inserted between EUT and the oscilloscope.
 2. The oscilloscope is used to read the peak response of the detector.
 3. Replaced EUT by the signal generator (SG).
 4. Adjusted the frequency of SG to the fundamental frequency.
 5. Adjusted the amplitude of SG to be the same peak recorded in 2.
- The spectrum analyzer is set-up as following;

∞ Voltage level range	: 10 mV / Div
∞ Sampling time	: 1.00GS / s
∞ Function	: Peak search

5.3.2 Minimum Standard

The maximum peak output power shall not exceed 1 watt. If transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.3.3 Result

EUT complies with the requirement.

Uncertainty of measurement result: ± 0.5 dB
Temperature, Humidity : 26°C, 51%

5.3.4 Measured Data

(Normal Rated Voltage, 5.0 VDC)

Frequency (MHz)	Peak Power (dBm)	Limit (dB)	Margin (dB)
CCK (11 Mbps)			
2412 (1ch)	22.39	30	7.61
2437 (6ch)	24.1	30	5.9
2462 (11ch)	23.9	30	6.1
OFDM (54 Mbps)			
2412 (1ch)	26.5	30	3.5
2437 (6ch)	26.62	30	3.38
2462 (11ch)	27	30	3

(High-varied voltage, 5.75 VDC)

Frequency (MHz)	Peak Power (dBm)	Limit (dB)	Margin (dB)
CCK (11 Mbps)			
2412 (1ch)	23	30	7
2437 (6ch)	23.9	30	6.1
2462 (11ch)	23.9	30	6.1
OFDM (54 Mbps)			
2412 (1ch)	27	30	3
2437 (6ch)	27.21	30	2.79
2462 (11ch)	27.1	30	2.9

(Low-varied voltage, 4.25 VDC)

Frequency (MHz)	Peak Power (dBm)	Limit (dB)	Margin (dB)
CCK (11 Mbps)			
2412 (1ch)	23.94	30	6.06
2437 (6ch)	23.9	30	6.1
2462 (11ch)	23.39	30	6.61
OFDM (54 Mbps)			
2412 (1ch)	27.16	30	2.84
2437 (6ch)	26.88	30	3.12
2462 (11ch)	26.64	30	3.36

5.4 15. 247(c) Transmitter Spurious Emissions (Conducted)**5.4.1 Setting Remarks**

- EUT directly connects to the spectrum analyzer via calibrated coaxial cable and 10 dB attenuator.
- The Spectrums are scanned from the lowest generated frequency of EUT up to the 10th harmonics by using the spectrum analyzer.
- The spectrum analyzer is set-up as following;

/ / Resolution bandwidth	: 100 kHz
/ / Video bandwidth	: 100 kHz
/ / Sweep	: Auto
/ / Detector function	: Peak
/ / Trace Mode	: Max Hold

- See test configuration figure 4.3.

5.4.2 Minimum Standard

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

5.4.3 Result

EUT complies with the requirement.

Uncertainty of measurement result: ± 0.8 dB
Temperature, Humidity : 26°C, 51%

5.4.4 Measured Data (No emission exceeding the 20dB limit was found)

2412 MHz (1ch)



2437 MHz (6ch)



2462 MHz (11ch)



5.5 15. 247(c) Transmitter Radiated Emissions (Radiated)**5.5.1 Setting Remarks**

- The data lists in “5.5.4 Measured Data “ list the significant emission frequencies, measured levels, correction factor (includes cable and antenna corrections), the corrected reading, plus the limit.
- In the frequency range between 30MHz to 25 GHz (as 10th harmonics), the Electric Field Strength is measured in accordance with ANSI C63.4: 2003 and CISPR22: 1997.
- The test setup is made in accordance with ANSI C63.4: 2003.
- The antenna is measured at 1-4m height.
- The EUT is placed on the non-conductive table in the center of turntable. The height of this table is 0.8m.
- The measurement is carried out with both horizontal and vertical antenna polarization.
- The highest radiation from the equipment is recorded.
- By varying the configuration of the test sample and the cable routing, it is attempted to maximize the emission.
- The test receiver with Quasi Peak and Average detector is in compliance with CISPR 16-1:1993.
- The spectrum analyzer is set-up as following;

(Frequency range : 30 - 1000 MHz)

~~EE~~ Resolution bandwidth : 100 kHz
~~EE~~ Video bandwidth : 300 kHz
~~EE~~ Detector function : Peak
~~EE~~ Trace Mode : Max Hold

(Frequency range : Above 1000 MHz)

~~EE~~ Resolution bandwidth : 1 MHz
~~EE~~ Video bandwidth : 1 MHz
~~EE~~ Detector function : Peak
~~EE~~ Trace Mode : Max Hold

- EMI Test Receiver analyzer is set-up as following;

~~EE~~ IF bandwidth : 120 kHz (Quasi-Peak Detector)
~~EE~~ IF bandwidth : 1 MHz (Average Detector)

- See test configuration figure 4.2.

5.5.2 Minimum Standard

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.5.3 Result

EUT complies with the requirement.

Uncertainty of measurement result: ± 3.28 dB

Temperature, Humidity : Refer to each data table

5.4.4 Measured Data

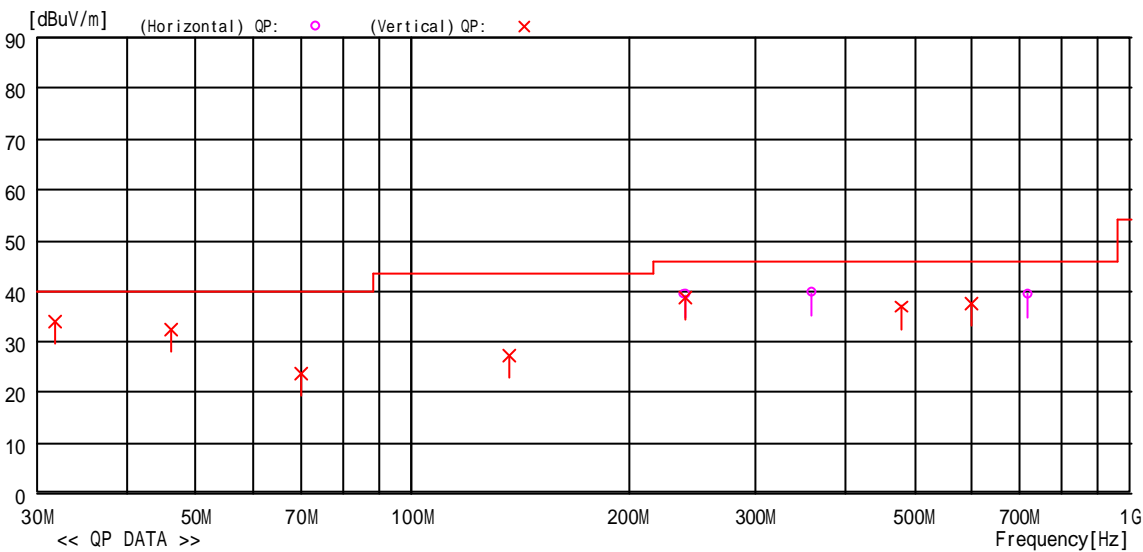
30MHz to 1GHz, Channel 1 with Antenna No.1

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC120V, 60Hz

Job No : CJ07-063426E
 Temp./Humi. : 24 /37%
 Condition : Operated (CH:01)
 Remark : ANT:4dBi Monopol

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	240.015	44.1	-4.8	39.3	46.0	6.7	Hori.	139	129	BC	
2	359.995	45.9	-6.3	39.6	46.0	6.4	Hori.	100	221	LP	
3	720.015	38.9	0.5	39.4	46.0	6.6	Hori.	100	130	LP	
4	31.878	44.9	-10.9	34.0	40.0	6.0	Vert.	100	67	BC	
5	46.077	45.9	-13.3	32.6	40.0	7.4	Vert.	100	175	BC	
6	70.095	38.6	-14.8	23.8	40.0	16.2	Vert.	100	179	BC	
7	136.408	38.4	-11.1	27.3	43.5	16.2	Vert.	100	171	BC	
8	240.015	43.6	-4.8	38.8	46.0	7.2	Vert.	100	127	BC	
9	480.045	40.8	-3.8	37.0	46.0	9.0	Vert.	100	152	LP	
10	600.015	39.2	-1.7	37.5	46.0	8.5	Vert.	100	98	LP	

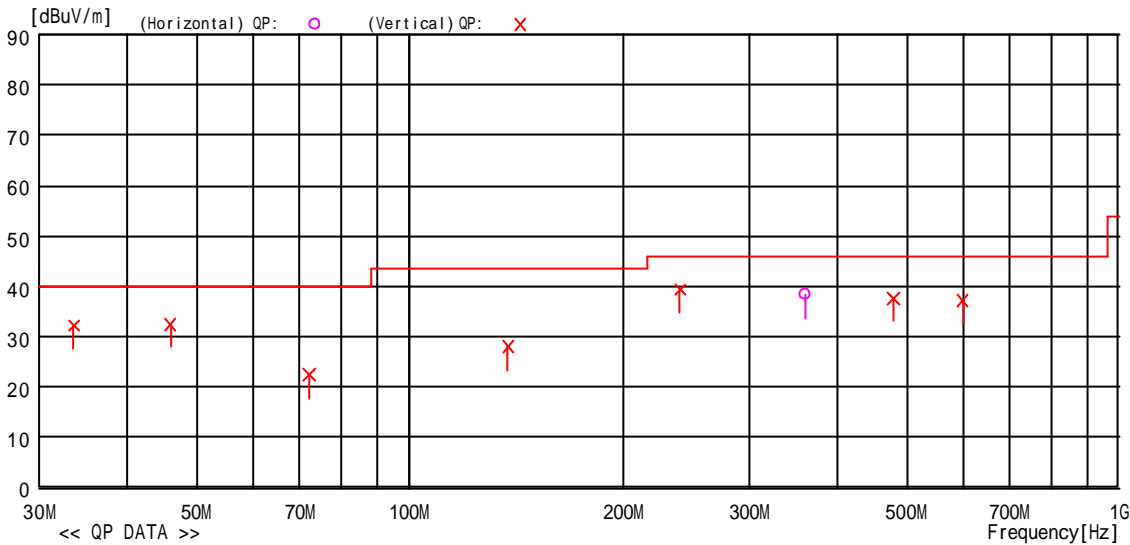
30MHz to 1GHz, Channel 6 with Antenna No.1

Model Name : WHR-HP-G125
Serial No. : None
Operator : M.Yamanaka
Power Supply : AC120V,60Hz

Job No : CJ07-063426E
Temp./Humi. : 24 /37%
Condition : Operated (CH:06)
Remark : ANT:4dBi Monopoi

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	360.005	44.6	-6.3	38.3	46.0	7.7	Hori.	100	215	LP	
2	33.613	43.5	-11.3	32.2	40.0	7.8	Vert.	100	13	BC	
3	45.937	45.7	-13.3	32.4	40.0	7.6	Vert.	100	208	BC	
4	72.230	37.1	-14.7	22.4	40.0	17.6	Vert.	100	131	BC	
5	137.420	39.0	-11.1	27.9	43.5	15.6	Vert.	100	166	BC	
6	239.995	44.1	-4.8	39.3	46.0	6.7	Vert.	100	165	BC	
7	480.005	41.3	-3.8	37.5	46.0	8.5	Vert.	100	139	LP	
8	600.015	38.9	-1.7	37.2	46.0	8.8	Vert.	100	95	LP	

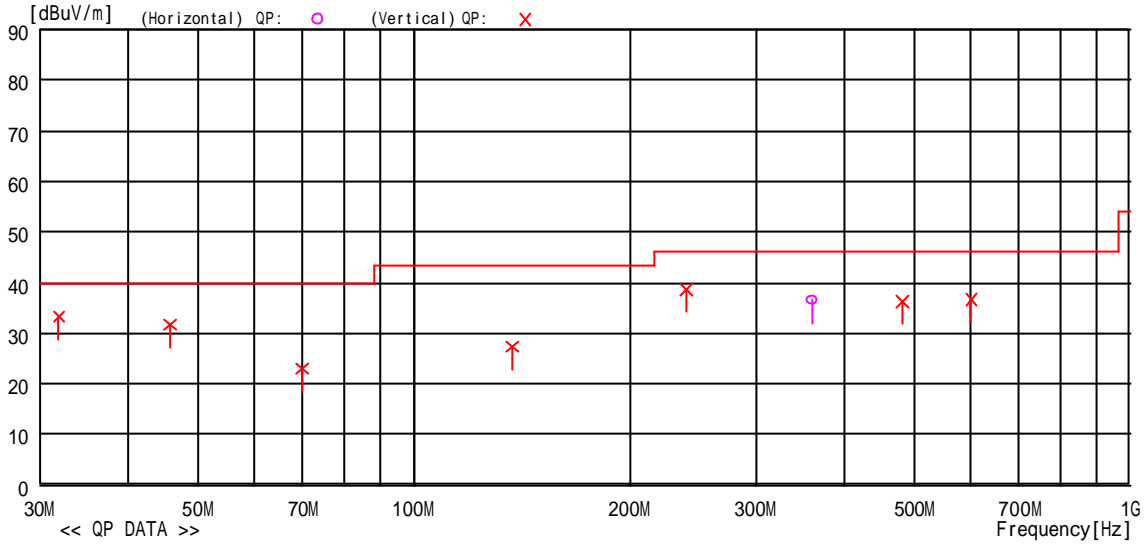
30MHz to 1GHz, Channel 11 with Antenna No.1

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC120V,60Hz

Job No : CJ07-063426E
 Temp./Humi. : 24 /37%
 Condition : Operated (CH:11)
 Remark : ANT:4dBi Monopoi

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	359.995	42.8	-6.3	36.5	46.0	9.5	Hori.	100	244	LP	
2	31.979	44.2	-10.9	33.3	40.0	6.7	Vert.	100	10	BC	
3	45.576	44.9	-13.2	31.7	40.0	8.3	Vert.	100	164	BC	
4	69.914	37.8	-14.8	23.0	40.0	17.0	Vert.	100	146	BC	
5	136.989	38.5	-11.1	27.4	43.5	16.1	Vert.	100	163	BC	
6	240.005	43.4	-4.8	38.6	46.0	7.4	Vert.	100	122	BC	
7	480.035	40.1	-3.8	36.3	46.0	9.7	Vert.	100	103	LP	
8	599.975	38.5	-1.7	36.8	46.0	9.2	Vert.	100	94	LP	

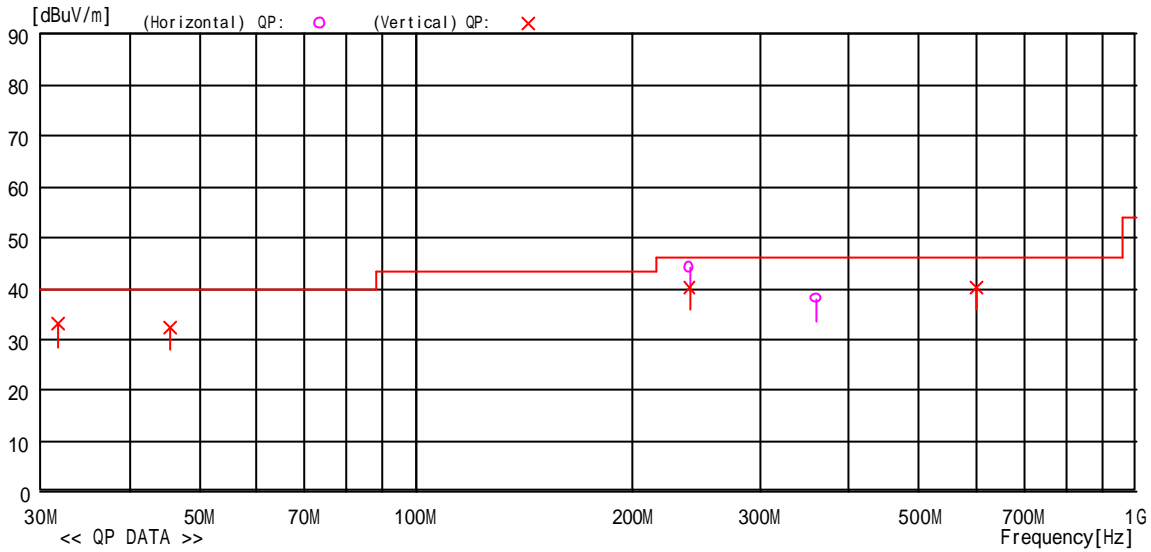
30MHz to 1GHz, Channel 1 with Antenna No.2

Model Name : WHR-HP-G125
Serial No. : None
Operator : M.Yamanaka
Power Supply : AC120V,60Hz

Job No : CJ07-063426E
Temp./Humi. : 25 /44%
Condition : Operated (CH:01)
Remark : ANT:WLE-MYG

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	239.975	48.8	-4.8	44.0	46.0	2.0	Hori.	138	123	BC	
2	360.005	44.3	-6.3	38.0	46.0	8.0	Hori.	123	183	LP	
3	31.779	43.9	-10.9	33.0	40.0	7.0	Vert.	100	106	BC	
4	45.526	45.7	-13.2	32.5	40.0	7.5	Vert.	100	210	BC	
5	240.005	45.1	-4.8	40.3	46.0	5.7	Vert.	100	130	BC	
6	600.005	42.0	-1.7	40.3	46.0	5.7	Vert.	100	85	LP	

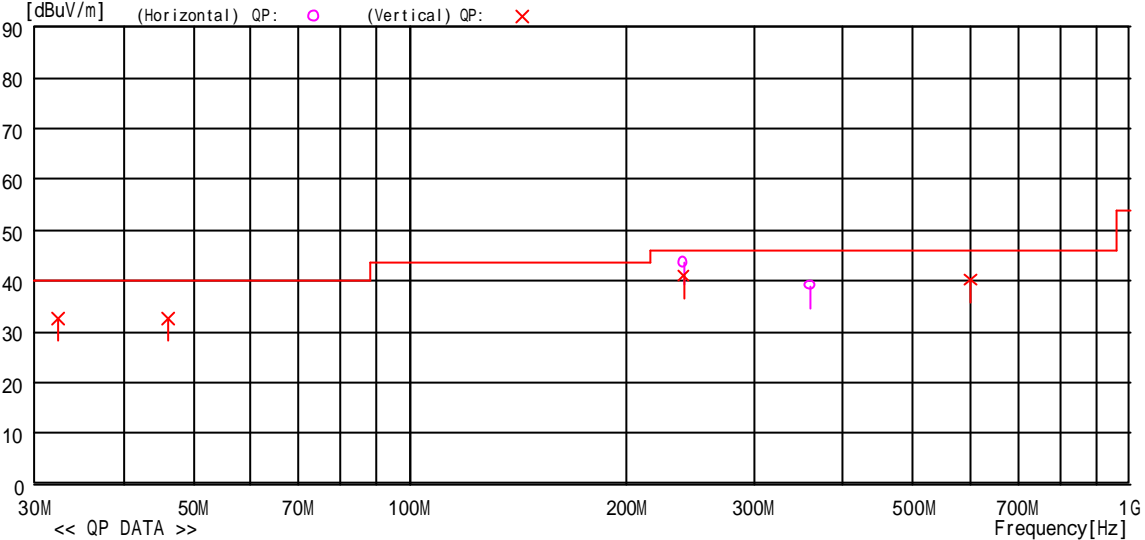
30MHz to 1GHz, Channel 6 with Antenna No.2

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC120V, 60Hz

Job No : CJ07-063426E
 Temp./Humi. : 25 /44%
 Condition : Operated (CH:06)
 Remark : ANT:WLE-MYG

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



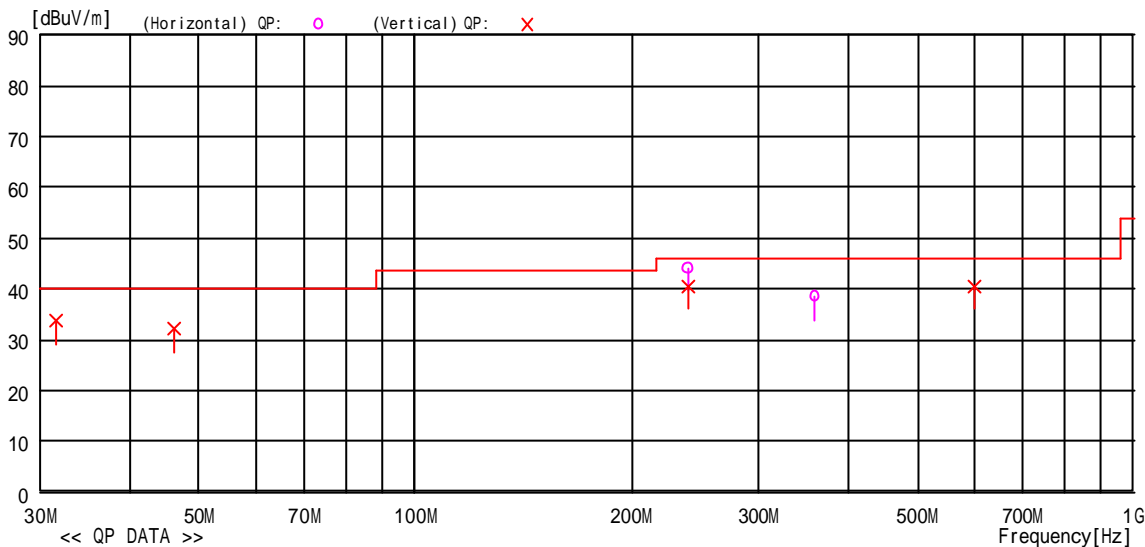
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	239.995	48.5	-4.8	43.7	46.0	2.3	Hori.	143	131	BC	
2	359.975	45.4	-6.3	39.1	46.0	6.9	Hori.	100	219	LP	
3	32.380	43.6	-11.0	32.6	40.0	7.4	Vert.	100	119	BC	
4	46.177	46.0	-13.3	32.7	40.0	7.3	Vert.	100	179	BC	
5	239.975	45.9	-4.8	41.1	46.0	4.9	Vert.	100	117	BC	
6	599.985	42.0	-1.7	40.3	46.0	5.7	Vert.	100	77	LP	

30MHz to 1GHz, Channel 11 with Antenna No.2

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 25 /44%
 Operator : M.Yamanaka Condition : Operated (CH:11)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-MYG

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



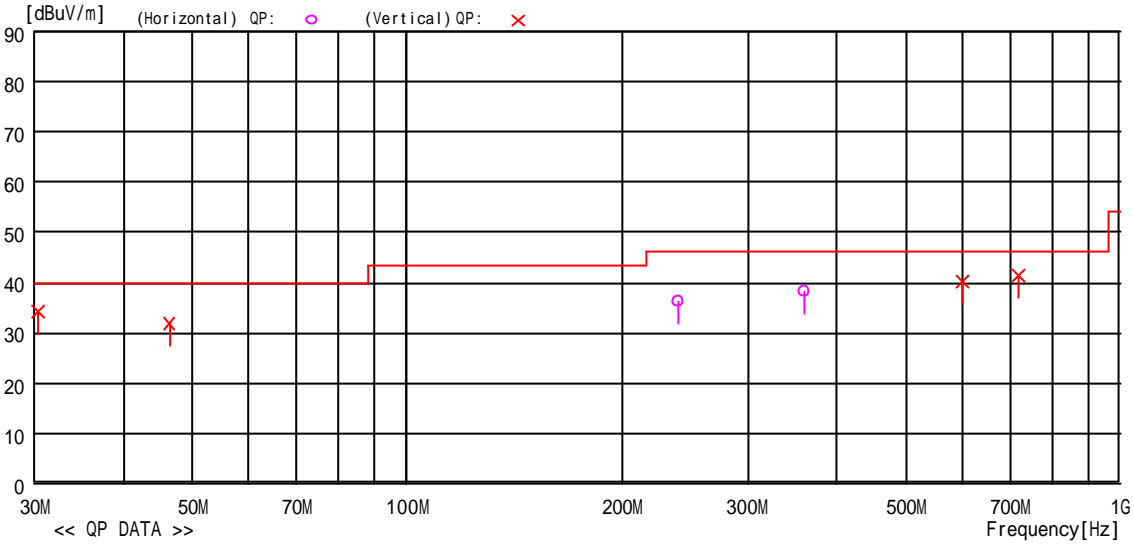
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	239.985	48.8	-4.8	44.0	46.0	2.0	Hori.	139	129	BC	
2	360.005	44.7	-6.3	38.4	46.0	7.6	Hori.	100	205	LP	
3	31.718	44.4	-10.8	33.6	40.0	6.4	Vert.	100	72	BC	
4	46.217	45.5	-13.3	32.2	40.0	7.8	Vert.	100	160	BC	
5	240.005	45.3	-4.8	40.5	46.0	5.5	Vert.	100	120	BC	
6	599.995	42.2	-1.7	40.5	46.0	5.5	Vert.	100	90	LP	

30MHz to 1GHz, Channel 1 with Antenna No.3

Model Name : WHR-HP-G125 Job No : CJ07-063426E
Serial No. : None Temp./Humi. : 25 /44%
Operator : M.Yamanaka Condition : Operated (CH:01)
Power Supply : AC120V,60Hz Remark : ANT:WLE-DA

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



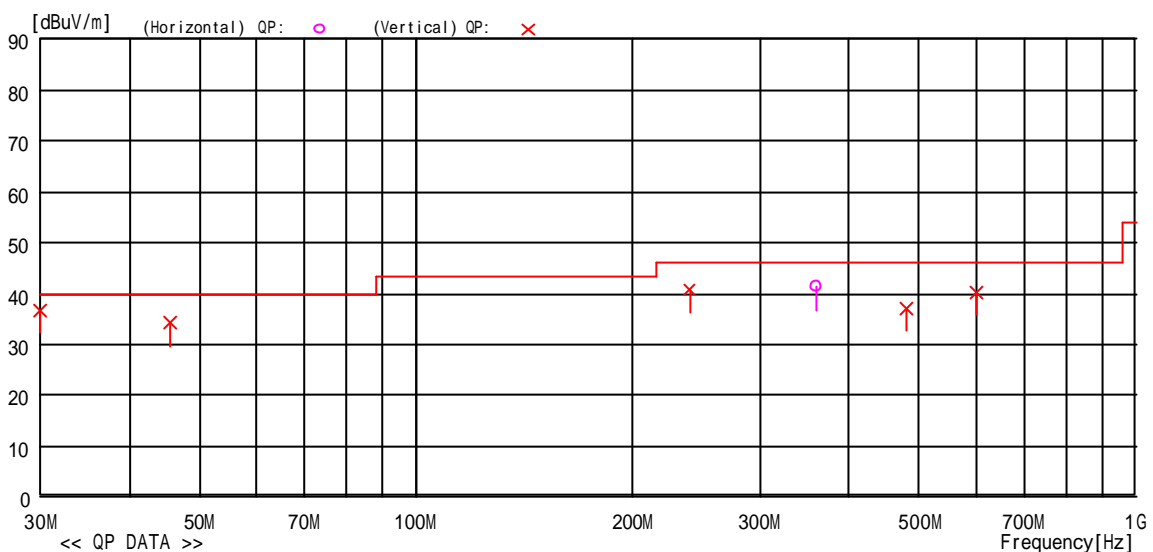
No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	240.005	41.0	-4.8	36.2	46.0	9.8	Hori.	138	132	BC	
2	360.005	44.5	-6.3	38.2	46.0	7.8	Hori.	100	261	LP	
3	30.276	44.8	-10.6	34.2	40.0	5.8	Vert.	100	88	BC	
4	46.348	45.3	-13.4	31.9	40.0	8.1	Vert.	100	157	BC	
5	599.985	42.0	-1.7	40.3	46.0	5.7	Vert.	196	88	LP	
6	720.005	40.8	0.5	41.3	46.0	4.7	Vert.	100	74	LP	

30MHz to 1GHz, Channel 6 with Antenna No.3

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 25 /44%
 Operator : M.Yamanaka Condition : Operated (CH:06)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-DA

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



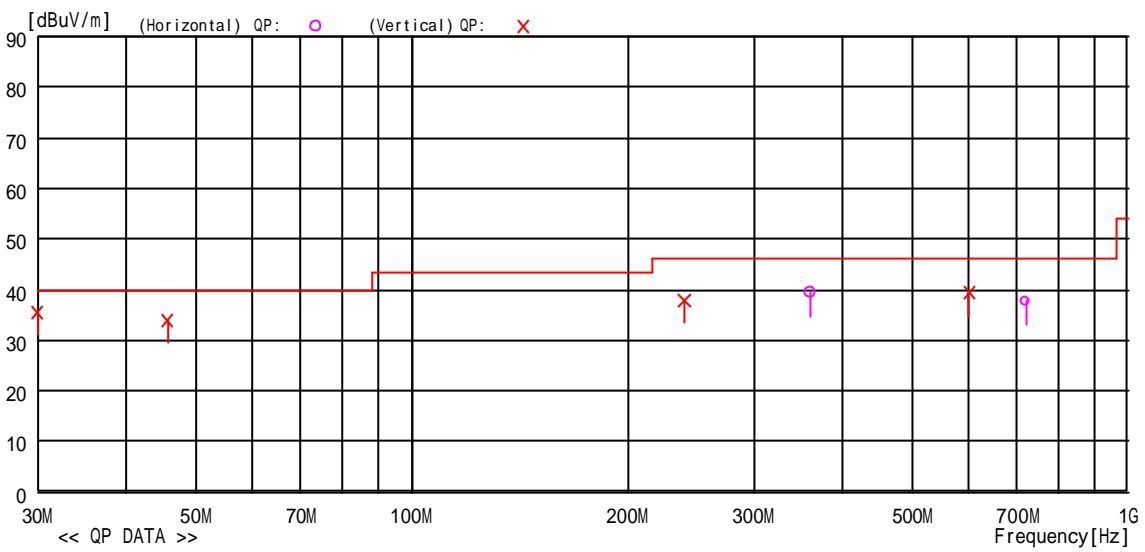
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	360.015	47.6	-6.3	41.3	46.0	4.7	Hori.	100	150	LP	
2	30.015	47.3	-10.5	36.8	40.0	3.2	Vert.	100	90	BC	
3	45.637	47.5	-13.2	34.3	40.0	5.7	Vert.	100	159	BC	
4	240.015	45.6	-4.8	40.8	46.0	5.2	Vert.	100	103	BC	
5	480.020	40.9	-3.8	37.1	46.0	8.9	Vert.	100	254	LP	
6	600.015	42.0	-1.7	40.3	46.0	5.7	Vert.	100	86	LP	

30MHz to 1GHz, Channel 11 with Antenna No.3

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC120V,60Hz
 Job No : CJ07-063426E
 Temp./Humi. : 25 /44%
 Condition : Operated (CH:11)
 Remark : ANT:WLE-DA

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



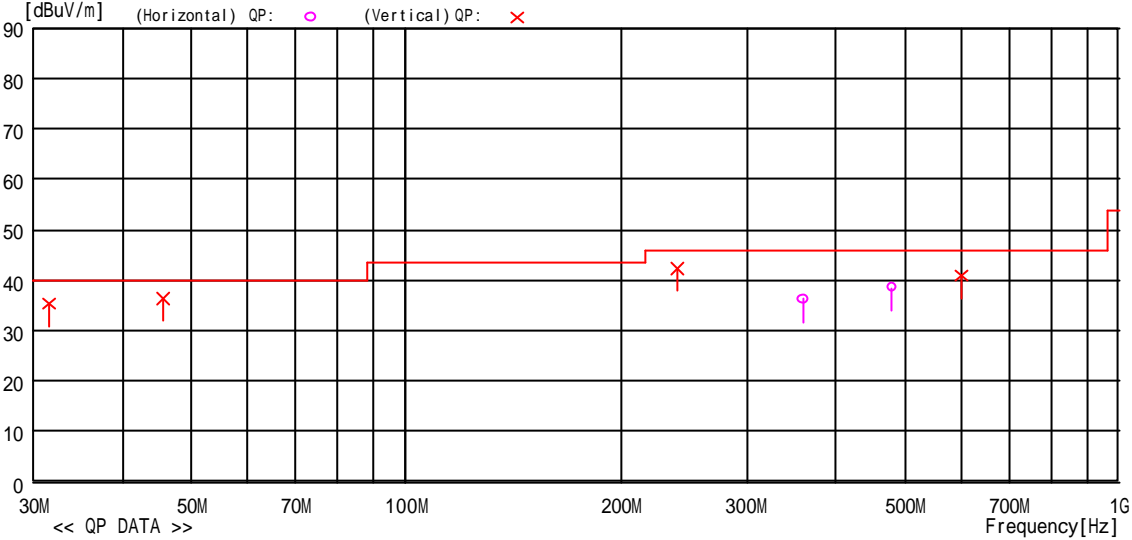
No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	359.995	45.7	-6.3	39.4	46.0	6.6	Hori.	100	154	LP	
2	720.025	37.2	0.5	37.7	46.0	8.3	Hori.	102	133	LP	
3	30.000	46.0	-10.5	35.5	40.0	4.5	Vert.	100	96	BC	
4	45.566	47.2	-13.2	34.0	40.0	6.0	Vert.	100	192	BC	
5	240.015	42.7	-4.8	37.9	46.0	8.1	Vert.	100	101	BC	
6	599.990	41.1	-1.7	39.4	46.0	6.6	Vert.	100	265	LP	

30MHz to 1GHz, Channel 1 with Antenna No.4

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 25 /44%
 Operator : M. Yamanaka Condition : Operated (CH:01)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-HG-NDR

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



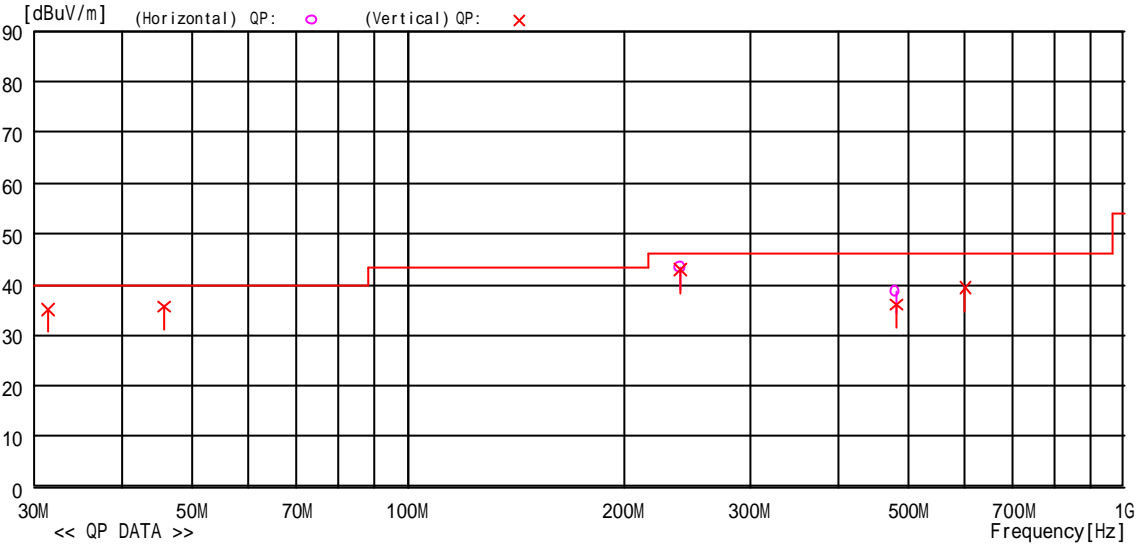
No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	359.995	42.5	-6.3	36.2	46.0	9.8	Hori.	400	150	LP	
2	480.005	42.2	-3.8	38.4	46.0	7.6	Hori.	100	310	LP	
3	31.588	46.1	-10.8	35.3	40.0	4.7	Vert.	100	35	BC	
4	45.566	49.6	-13.2	36.4	40.0	3.6	Vert.	100	172	BC	
5	240.015	47.1	-4.8	42.3	46.0	3.7	Vert.	100	112	BC	
6	600.005	42.5	-1.7	40.8	46.0	5.2	Vert.	100	89	LP	

30MHz to 1GHz, Channel 6 with Antenna No.4

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 25 /44%
 Operator : M.Yamanaka Condition : Operated (CH:06)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-HG-NDR

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	240.005	48.2	-4.8	43.4	46.0	2.6	Hori.	100	106	BC	
2	480.005	42.5	-3.8	38.7	46.0	7.3	Hori.	100	315	LP	
3	31.468	45.9	-10.8	35.1	40.0	4.9	Vert.	100	162	BC	
4	45.636	48.8	-13.2	35.6	40.0	4.4	Vert.	100	176	BC	
5	240.005	47.6	-4.8	42.8	46.0	3.2	Vert.	100	104	BC	
6	480.055	39.8	-3.8	36.0	46.0	10.0	Vert.	100	150	LP	
7	600.015	40.9	-1.7	39.2	46.0	6.8	Vert.	100	95	LP	

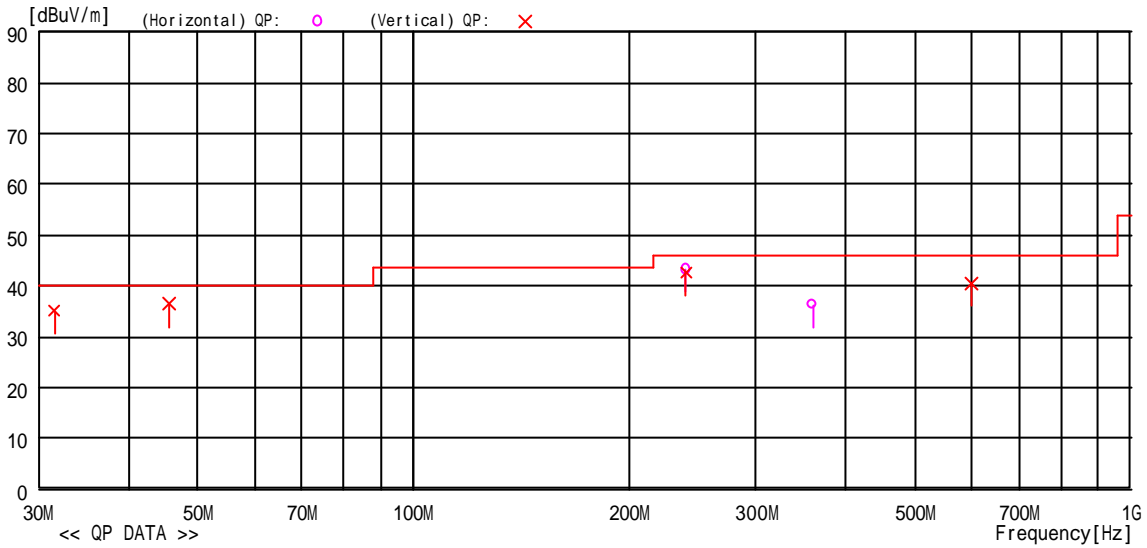
30MHz to 1GHz, Channel 11 with Antenna No.4

Model Name : WHR-HP-G125
Serial No. : None
Operator : M.Yamanaka
Power Supply : AC120V,60Hz

Job No : CJ07-063426E
Temp./Humi. : 25 /44%
Condition : Operated (CH:11)
Remark : ANT:WLE-HG-NDR

Memo : RBW:120kHz(30MHz-1000MHz)

LIMIT : FCC 15.209 3m



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	240.015	48.1	-4.8	43.3	46.0	2.7	Hori.	139	115	BC	
2	360.015	42.6	-6.3	36.3	46.0	9.7	Hori.	100	147	LP	
3	31.538	45.9	-10.8	35.1	40.0	4.9	Vert.	100	116	BC	
4	45.656	49.7	-13.2	36.5	40.0	3.5	Vert.	100	157	BC	
5	240.015	47.5	-4.8	42.7	46.0	3.3	Vert.	100	157	BC	
6	600.005	42.1	-1.7	40.4	46.0	5.6	Vert.	100	88	LP	

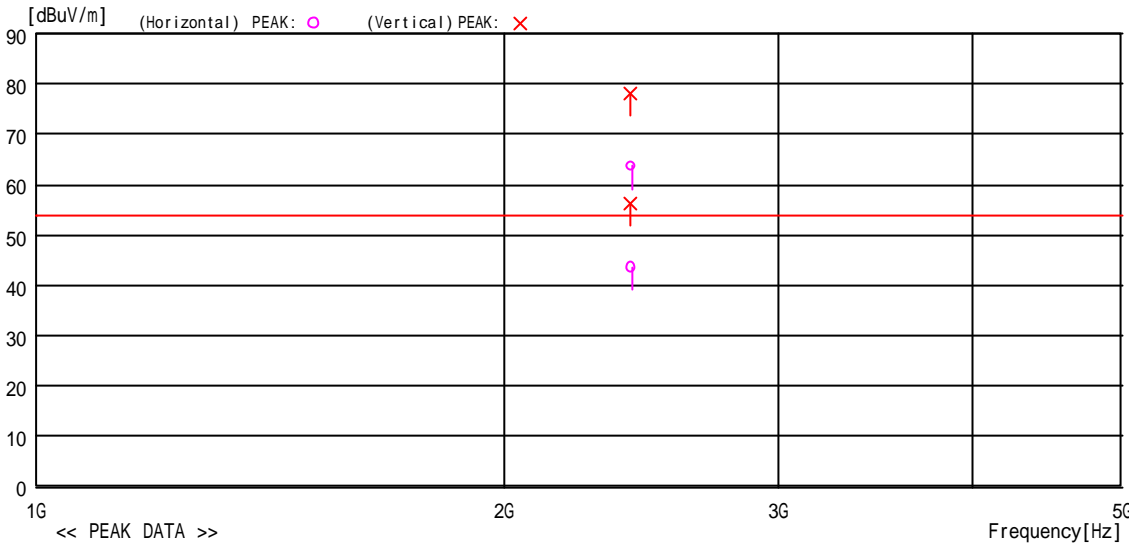
1GHz to 5GHz, Channel 1 with Antenna No.1

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC120V,60Hz

Job No : CJ07-063426E
 Temp./Humi. : 24 /39%
 Condition : Operated(CH:01)
 Remark : ANT:4dBi Monopole

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



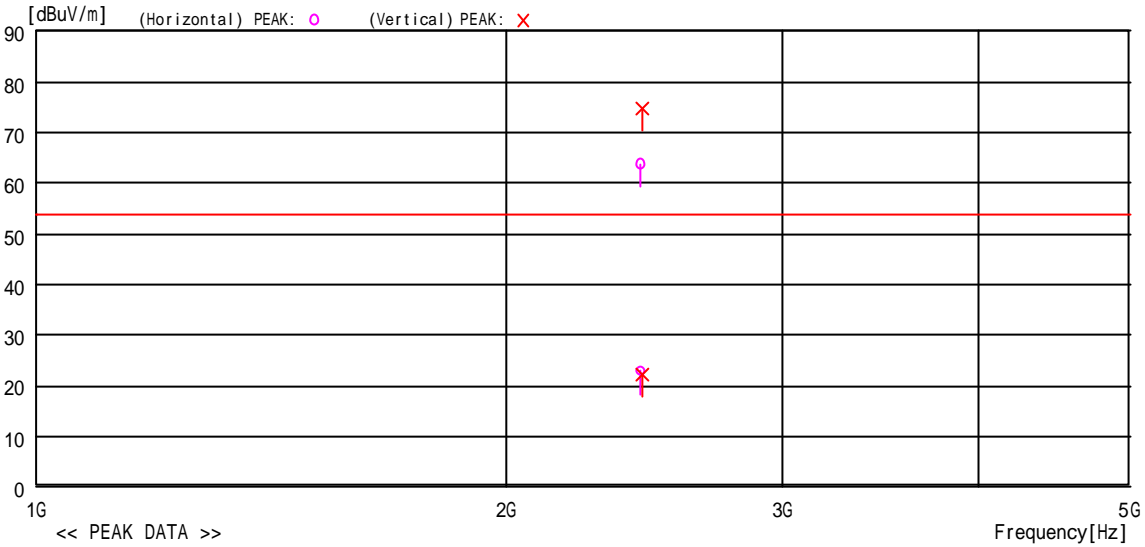
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No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2416.432	66.3	-2.7	63.6	54.0	-9.6	Hori.	100	34	HRN	PK
2	2416.432	46.3	-2.7	43.6	54.0	10.4	Hori.	100	34	HRN	AV
3	2410.721	80.7	-2.7	78.0	54.0	-24.0	Vert.	107	179	HRN	PK
4	2410.721	59.1	-2.7	56.4	54.0	-2.4	Vert.	107	179	HRN	AV

1GHz to 5GHz, Channel 6 with Antenna No.1

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 24 /39%
 Operator : M.Yamanaka Condition : Operated(CH:06)
 Power Supply : AC120V,60Hz Remark : ANT:4dBi Monopol
 Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2436.126	66.3	-2.5	63.8	54.0	-9.8	Hori.	100	159	HRN PK	
2	2436.126	25.3	-2.5	22.8	54.0	31.2	Hori.	100	159	HRN AV	
3	2438.227	77.4	-2.5	74.9	54.0	-20.9	Vert.	100	148	HRN PK	
4	2438.227	24.8	-2.5	22.3	54.0	31.7	Vert.	100	148	HRN AV	

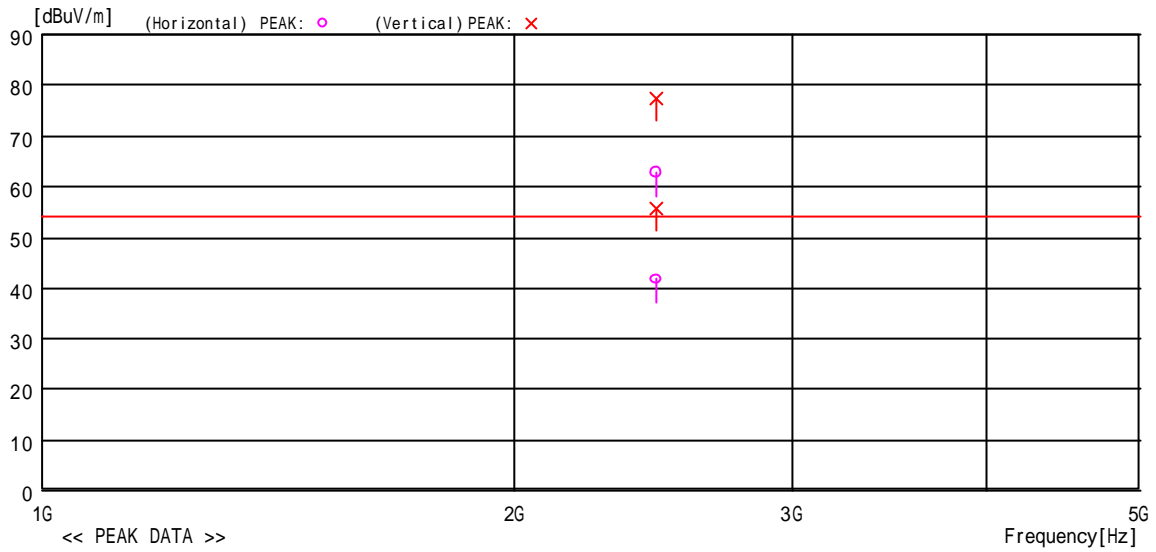
1GHz to 5GHz, Channel 11 with Antenna No.1

Model Name : WHR-HP-G125
Serial No. : None
Operator : M.Yamanaka
Power Supply : AC120V,60Hz

Job No : CJ07-063426E
Temp./Humi. : 24 /39%
Condition : Operated(CH:11)
Remark : ANT:4dBi Monopoli

Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



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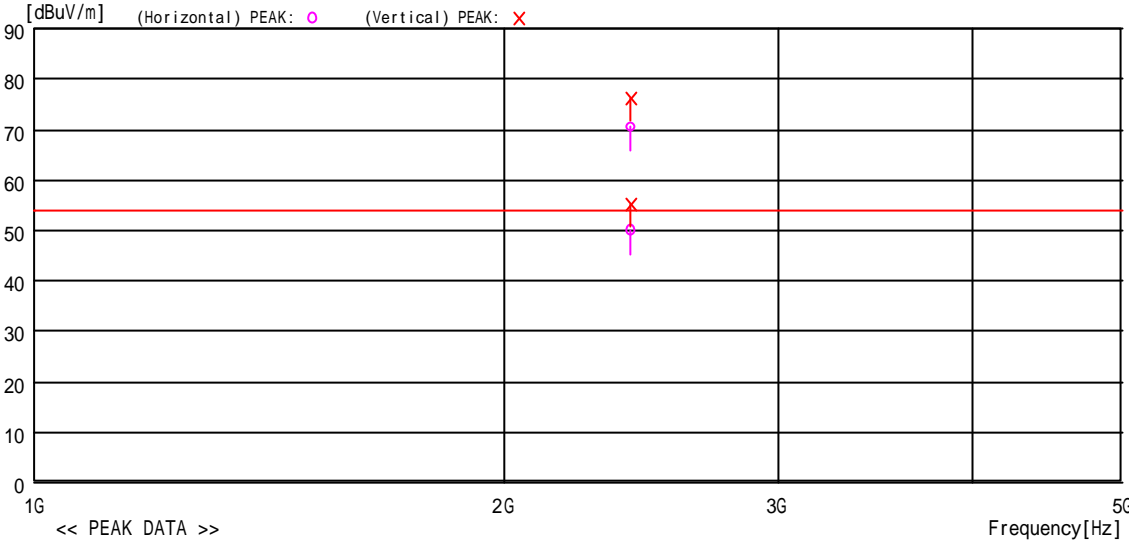
No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant		Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	Type	
1	2461.367	65.3	-2.5	62.8	54.0	-8.8	Hori.	100	116	HRN	PK	
2	2461.367	44.3	-2.5	41.8	54.0	12.2	Hori.	100	116	HRN	AV	
3	2460.996	79.9	-2.5	77.4	54.0	-23.4	Vert.	100	240	HRN	PK	
4	2460.996	58.3	-2.5	55.8	54.0	-1.8	Vert.	100	240	HRN	AV	

1GHz to 5GHz, Channel 1 with Antenna No.2

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 25 /39%
 Operator : M.Yamanaka Condition : Operated(CH:01)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-MYG

Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



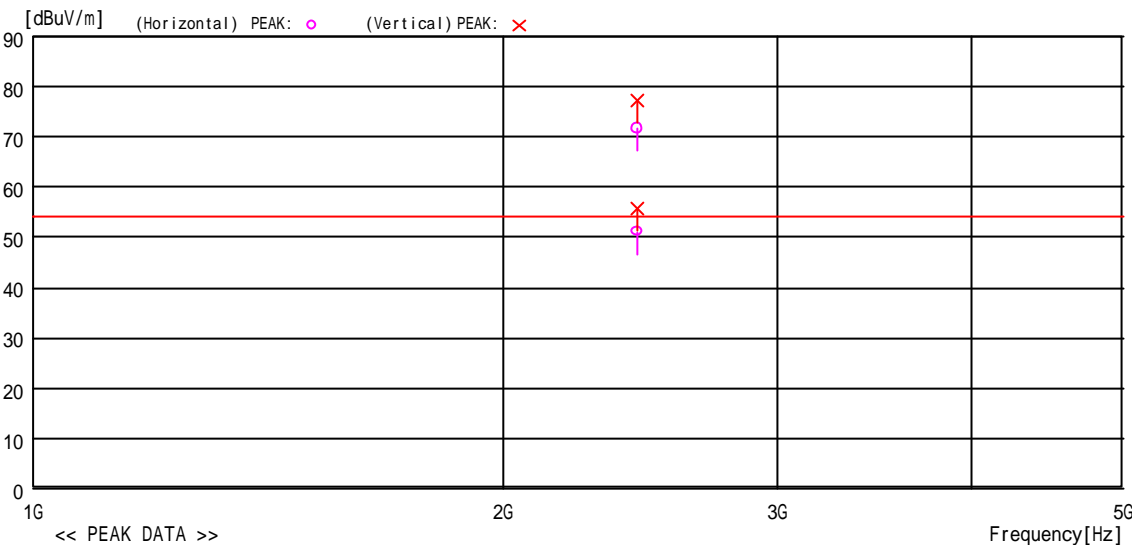
No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	2416.256	73.2	-2.7	70.5	54.0	-16.5	Hori.	100	253	HRN	PK
2	2416.256	52.6	-2.7	49.9	54.0	4.1	Hori.	100	253	HRN	QP
3	2416.216	78.9	-2.7	76.2	54.0	-22.2	Vert.	109	23	HRN	PK
4	2416.216	58.0	-2.7	55.3	54.0	-1.3	Vert.	109	23	HRN	QP

1GHz to 5GHz, Channel 6 with Antenna No.2

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 25 /39%
 Operator : M.Yamanaka Condition : Operated(CH:06)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-MYG

Memo : RBW:1MHz (1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2438.000	74.1	-2.5	71.6	54.0	-17.6	Hori.	100	190	HRN	PK
2	2438.000	53.5	-2.5	51.0	54.0	3.0	Hori.	100	190	HRN	AV
3	2439.909	79.7	-2.5	77.2	54.0	-23.2	Vert.	107	24	HRN	PK
4	2439.909	58.3	-2.5	55.8	54.0	-1.8	Vert.	107	24	HRN	AV

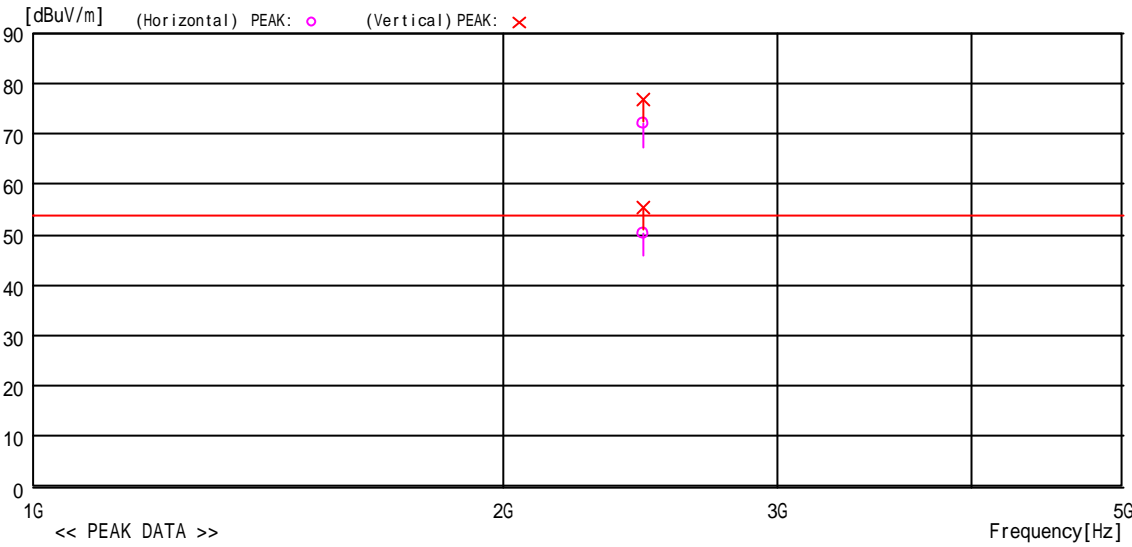
1GHz to 5GHz, Channel 11 with Antenna No.2

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC120V,60Hz

Job No : CJ07-063426E
 Temp./Humi. : 24 /41%
 Condition : Operated(CH:11)
 Remark : ANT:WLE-MYG

Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



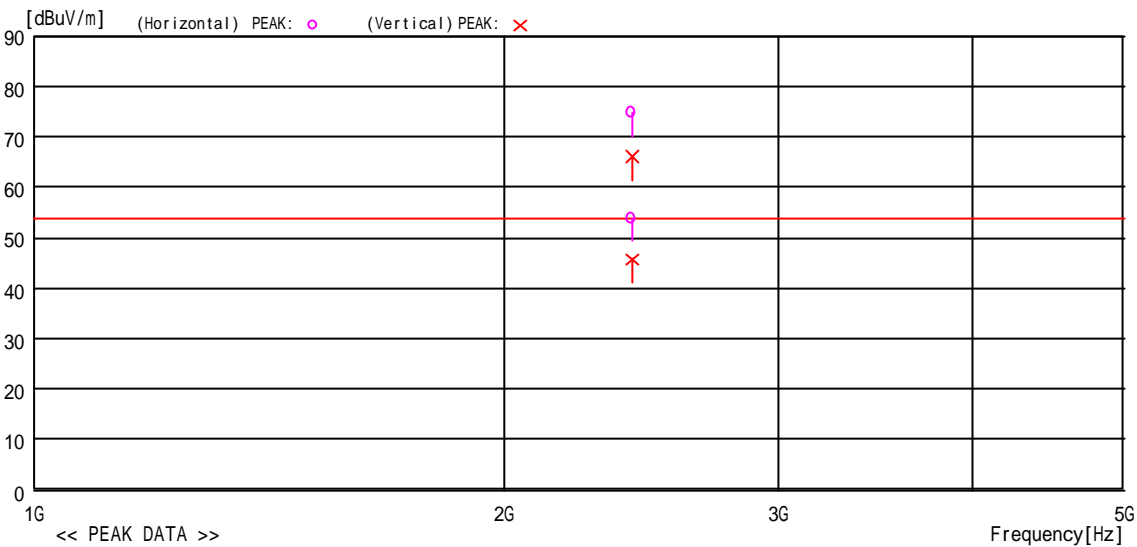
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2460.926	74.4	-2.5	71.9	54.0	-17.9	Hori.	100	193	HRN	PK
2	2460.926	52.7	-2.5	50.2	54.0	3.8	Hori.	100	193	HRN	AV
3	2460.843	79.2	-2.5	76.7	54.0	-22.7	Vert.	105	23	HRN	PK
4	2460.843	57.8	-2.5	55.3	54.0	-1.3	Vert.	105	23	HRN	AV

1GHz to 5GHz, Channel 1 with Antenna No.3

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp./Humi.	: 24 /41%
Operator	: M.Yamanaka	Condition	: Operated(CH:01)
Power Supply	: AC120V,60Hz	Remark	: ANT:WLE-DA

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



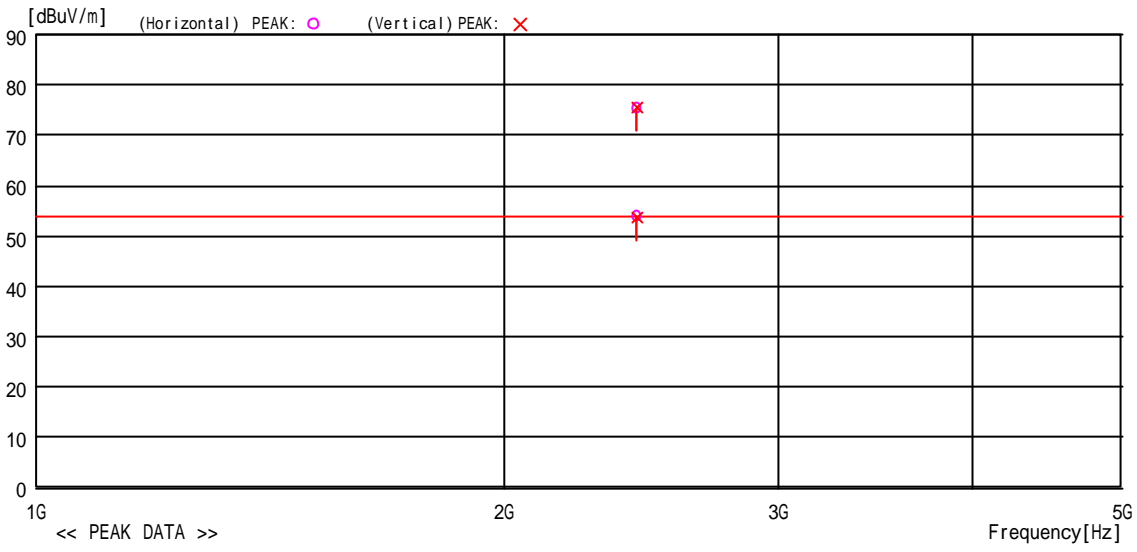
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2414.969	77.4	-2.7	74.7	54.0	-20.7	Hori.	174	29	HRN PK	
2	2414.969	56.5	-2.7	53.8	54.0	0.2	Hori.	174	29	HRN AV	
3	2416.292	68.6	-2.7	65.9	54.0	-11.9	Vert.	155	18	HRN PK	
4	2416.292	48.3	-2.7	45.6	54.0	8.4	Vert.	155	18	HRN AV	

1GHz to 5GHz, Channel 6 with Antenna No.3

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 24 /41%
 Operator : M.Yamanaka Condition : Operated(CH:06)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-DA

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



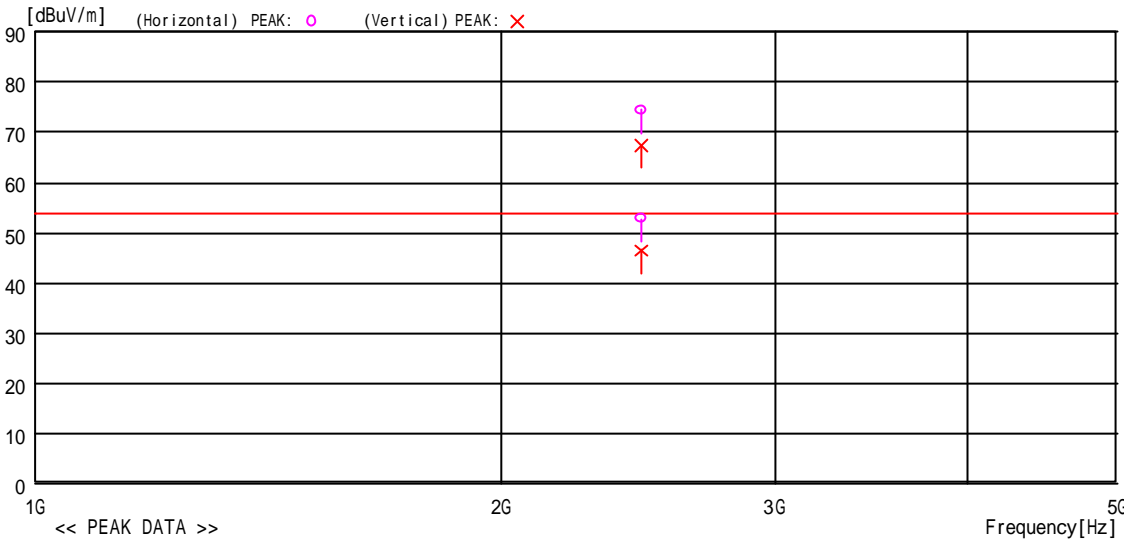
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No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2435.835	77.8	-2.5	75.3	54.0	-21.3	Hori.	176	26	HRN	PK
2	2435.835	56.5	-2.5	54.0	54.0	0.0	Hori.	176	26	HRN	AV
3	2436.002	78.0	-2.5	75.5	54.0	-21.5	Vert.	174	26	HRN	PK
4	2436.002	56.2	-2.5	53.7	54.0	0.3	Vert.	174	26	HRN	AV

1GHz to 5GHz, Channel 11 with Antenna No.3

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp./Humi.	: 24 /41%
Operator	: M.Yamanaka	Condition	: Operated(CH:11)
Power Supply	: AC120V,60Hz	Remark	: ANT:WLE-DA
Memo	: RBW:1MHz(1GHz ~)		

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

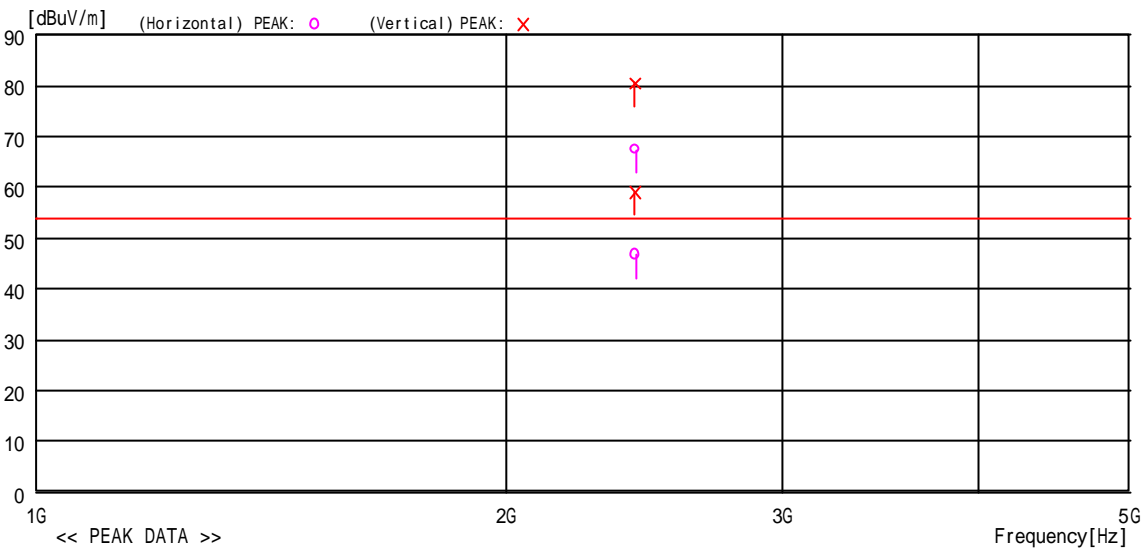


No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant		Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	Type	
1	2461.086	76.9	-2.5	74.4	54.0	-20.4	Hori.	171	30	HRN	PK	
2	2461.086	55.3	-2.5	52.8	54.0	1.2	Hori.	171	30	HRN	AV	
3	2460.905	69.8	-2.5	67.3	54.0	-13.3	Vert.	156	17	HRN	PK	
4	2460.905	49.0	-2.5	46.5	54.0	7.5	Vert.	156	17	HRN	AV	

1GHz to 5GHz, Channel 1 with Antenna No.4

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 24 /41%
 Operator : M.Yamanaka Condition : Operated(CH:01)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-HG-NDR
 Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



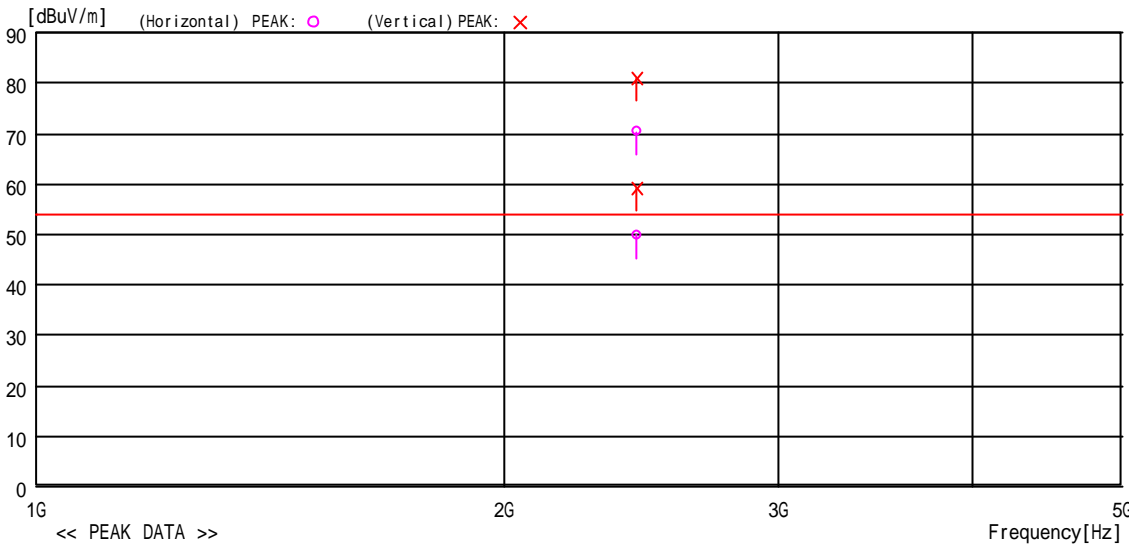
No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	2416.314	70.1	-2.7	67.4	54.0	-13.4	Hori.	104	105	HRN PK	
2	2416.314	49.4	-2.7	46.7	54.0	7.3	Hori.	104	105	HRN AV	
3	2414.854	83.2	-2.7	80.5	54.0	-26.5	Vert.	100	130	HRN PK	
4	2414.854	61.7	-2.7	59.0	54.0	-5.0	Vert.	100	130	HRN AV	

1GHz to 5GHz, Channel 6 with Antenna No.4

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 24 /41%
 Operator : M.Yamanaka Condition : Operated(CH:06)
 Power Supply : AC120V,60Hz Remark : ANT:WLE-HG-NDR

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2435.715	72.9	-2.5	70.4	54.0	-16.4	Hori.	134	157	HRN	PK
2	2435.715	52.3	-2.5	49.8	54.0	4.2	Hori.	134	157	HRN	AV
3	2436.016	83.5	-2.5	81.0	54.0	-27.0	Vert.	100	125	HRN	PK
4	2436.016	61.8	-2.5	59.3	54.0	-5.3	Vert.	100	125	HRN	AV

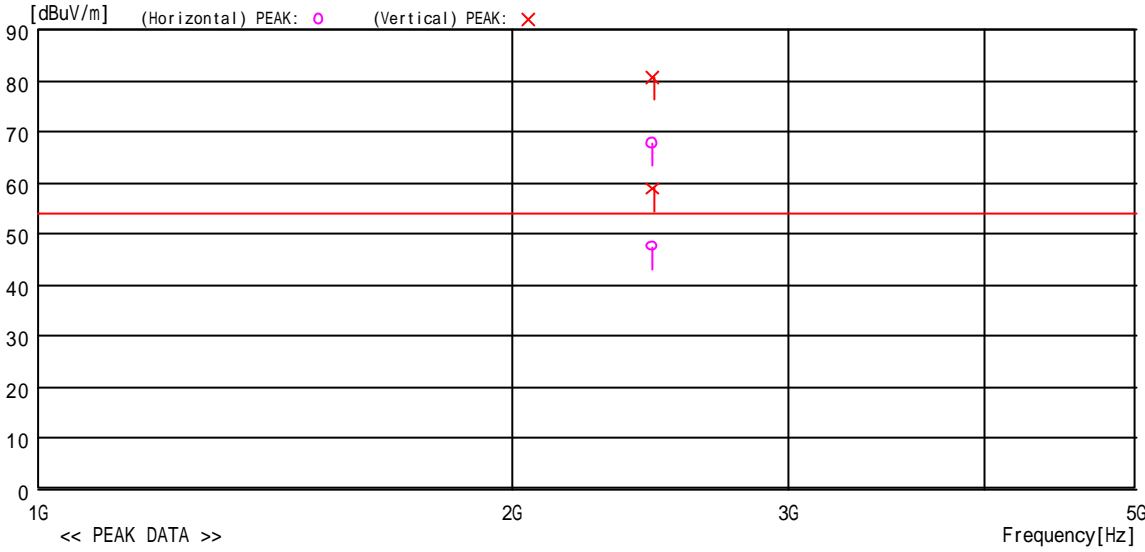
1GHz to 5GHz, Channel 11 with Antenna No.4

Model Name : WHR-HP-G125
Serial No. : None
Operator : M.Yamanaka
Power Supply : AC120V,60Hz

Job No : CJ07-063426E
Temp./Humi. : 24 /41%
Condition : Operated(CH:11)
Remark : ANT:WLE-HG-NDR

Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



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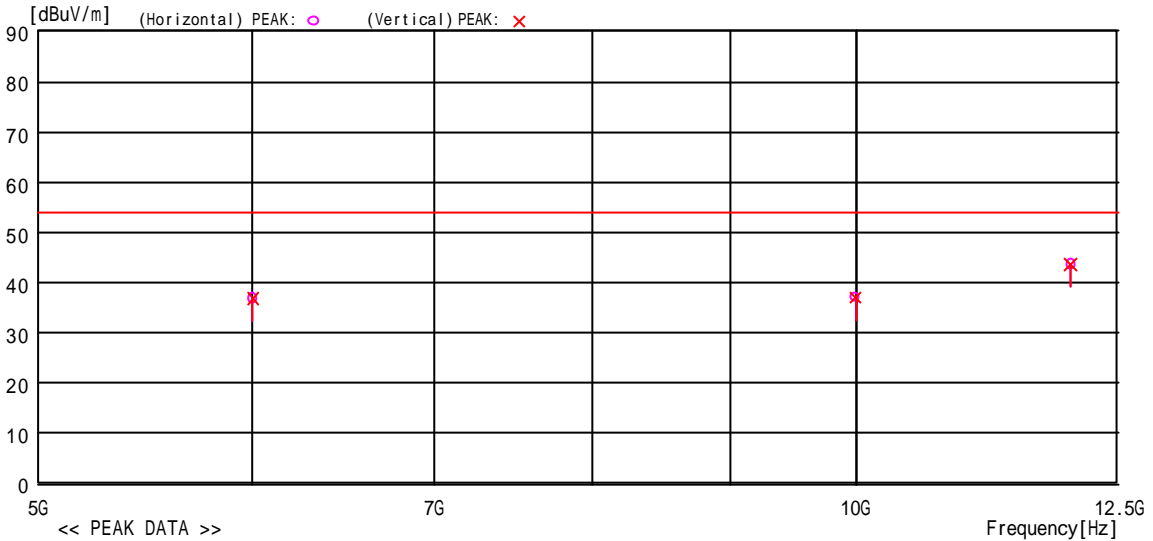
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	2459.583	70.3	-2.5	67.8	54.0	-13.8	Hori.	100	123	HRN PK	
2	2459.583	50.1	-2.5	47.6	54.0	6.4	Hori.	100	123	HRN AV	
3	2460.966	83.3	-2.5	80.8	54.0	-26.8	Vert.	100	118	HRN PK	
4	2460.966	61.5	-2.5	59.0	54.0	-5.0	Vert.	100	118	HRN AV	

5GHz to 12.5GHz, Channel 1 with Antenna No.1

Model Name	: WHR-HP-G125	Job No	: CJ07-063433E
Serial No.	: None	Temp./Humi.	: 24 /42%
Operator	: M.Yamanaka	Condition	: Operated(CH:01)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:4dBi Monopoi

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



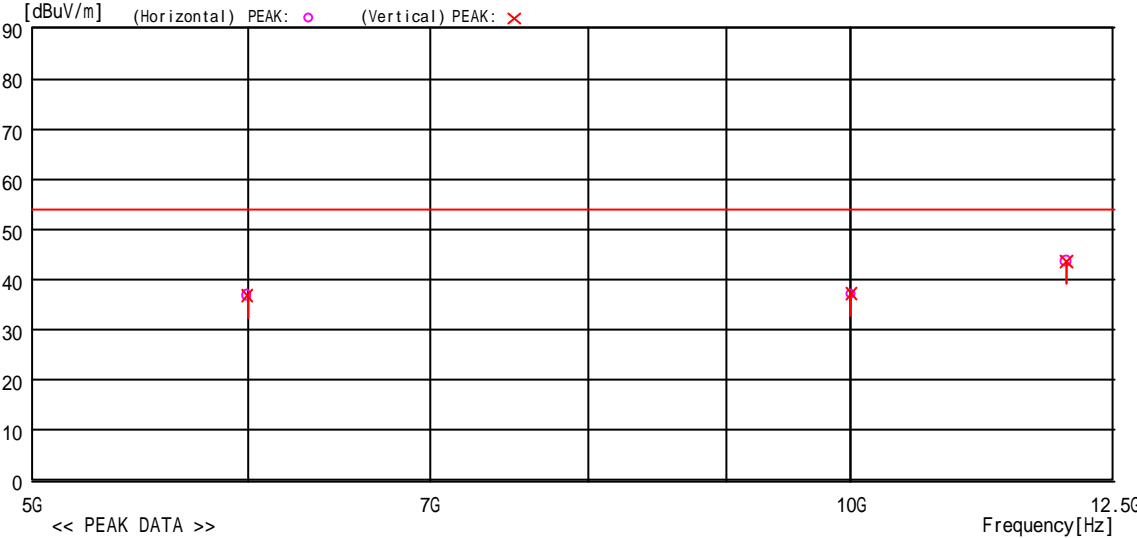
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	31.0	5.8	36.8	54.0	17.2	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq:10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq:12GHz AV
4	6000.000	31.0	5.8	36.8	54.0	17.2	Vert.	100	0	HRN	AV
5	0000.000	24.8	12.3	37.1	54.0	16.9	Vert.	100	0	HRN	Freq:10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq:12GHz AV

5GHz to 12.5GHz, Channel 6 with Antenna No.1

Model Name : WHR-HP-G125 Job No : CJ07-063433E
Serial No. : None Temp./Humi. : 24 /42%
Operator : M.Yamanaka Condition : Operated(CH:06)
Power Supply : AC 120V , 60Hz Remark : ANT:4dBi Monopol

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

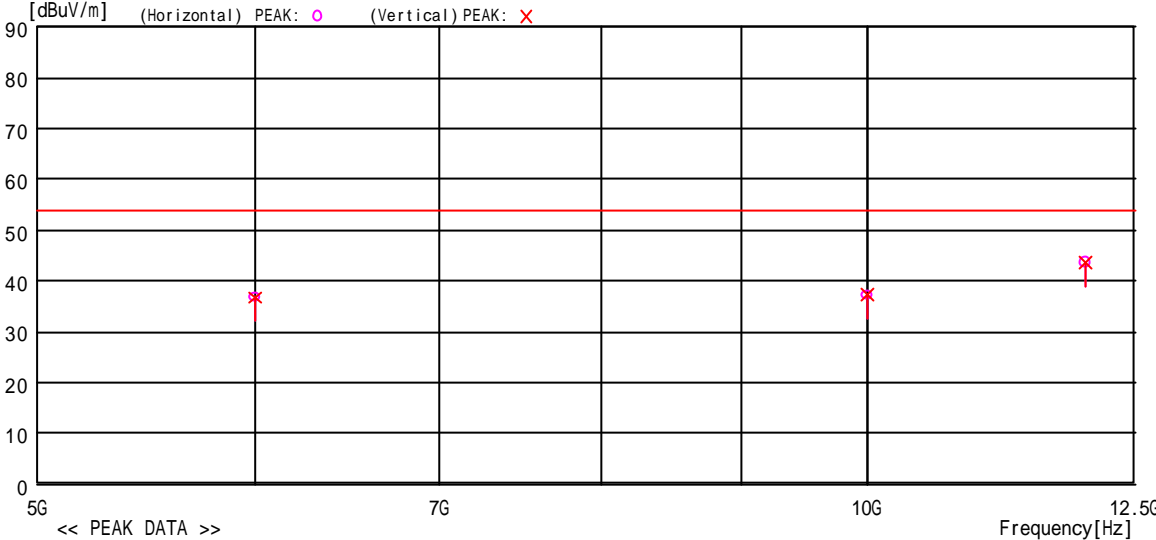


No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	31.0	5.8	36.8	54.0	17.2	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq: 10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq: 12GHz AV
4	6000.000	31.0	5.8	36.8	54.0	17.2	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq: 10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq: 12GHz AV

5GHz to 12.5GHz, Channel 11 with Antenna No.1

Model Name : WHR-HP-G125 Job No : CJ07-063433E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated(CH:11)
 Power Supply : AC 120V , 60Hz Remark : ANT:4dBi Monopole
 Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

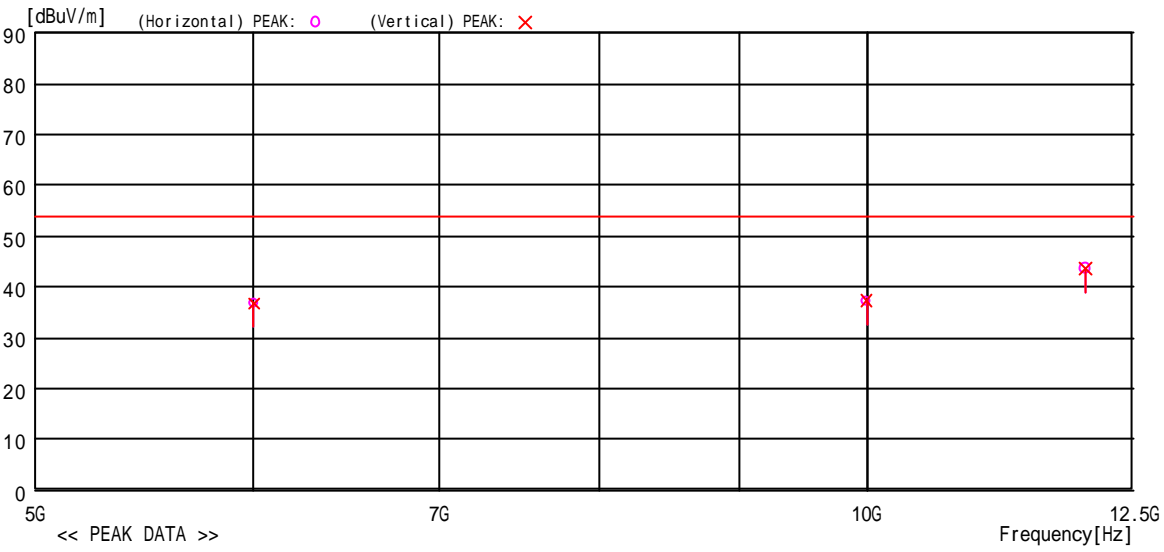


No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	31.0	5.8	36.8	54.0	17.2	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq: 10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq: 12GHz AV
4	6000.000	31.0	5.8	36.8	54.0	17.2	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq: 10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq: 12GHz AV

5GHz to 12.5GHz, Channel 1 with Antenna No.2

Model Name : WHR-HP-G125 Job No : CJ07-063433E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated(CH:01)
 Power Supply : AC 120V , 60Hz Remark : ANT:WLE-MYG
 Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



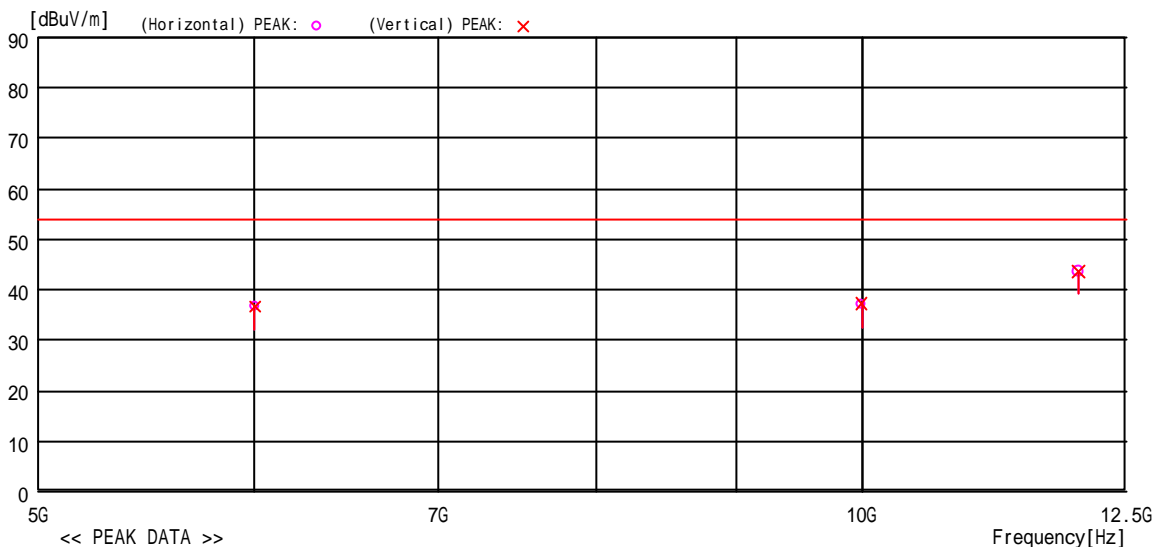
No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq: 10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq: 12GHz AV
4	6000.000	31.0	5.8	36.8	54.0	17.2	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq: 10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq: 12GHz AV

5GHz to 12.5GHz, Channel 6 with Antenna No.2

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC 120V , 60Hz
 Memo : RBW:1MHz(1GHz ~)

Job No : CJ07-063433E
 Temp./Humi. : 24 /42%
 Condition : Operated(CH:06)
 Remark : ANT:WLE-MYG

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



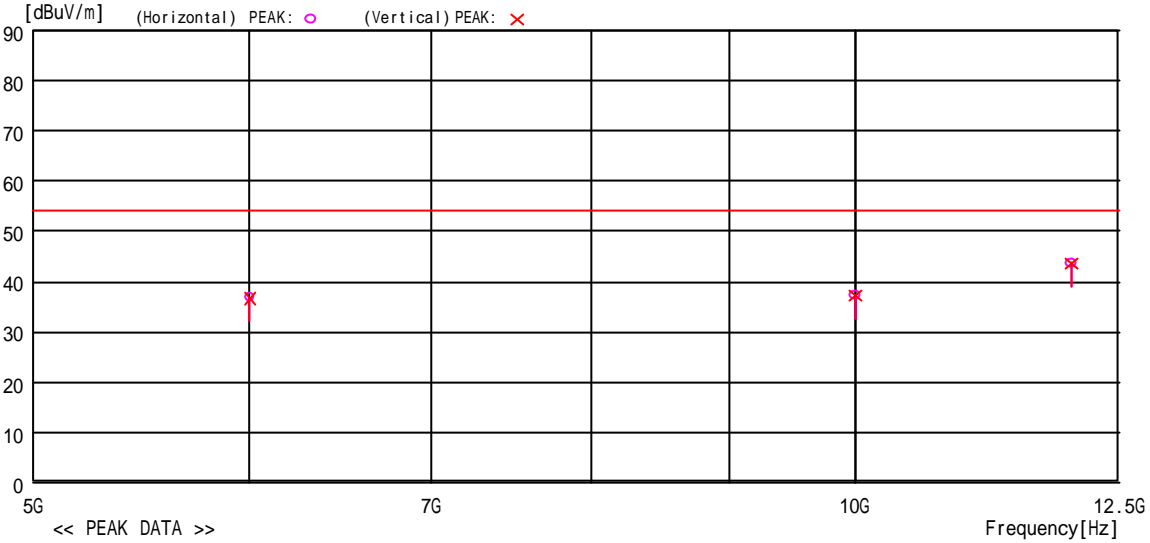
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq: 10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq: 12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq: 10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq: 12GHz AV

5GHz to 12.5GHz, Channel 11 with Antenna No.2

Model Name : WHR-HP-G125 Job No : CJ07-063433E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated(CH:11)
 Power Supply : AC 120V , 60Hz Remark : ANT:WLE-MYG

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

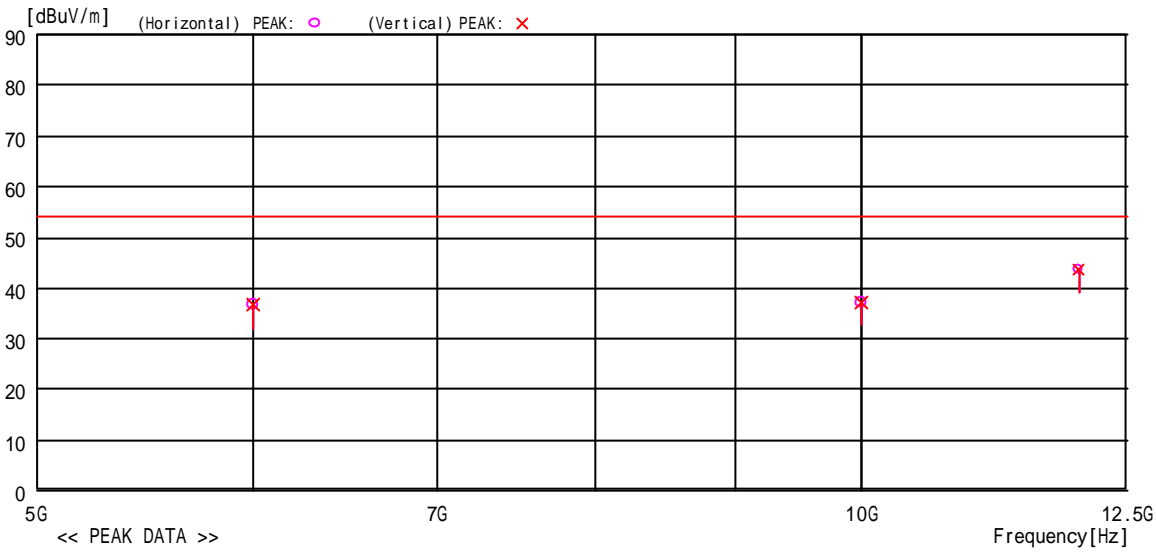


No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq:10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq:12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq:10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq:12GHz AV

5GHz to 12.5GHz, Channel 1 with Antenna No.3

Model Name : WHR-HP-G125 Job No : CJ07-063433E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated(CH:01)
 Power Supply : AC 120V , 60Hz Remark : ANT:WLE-DA
 Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



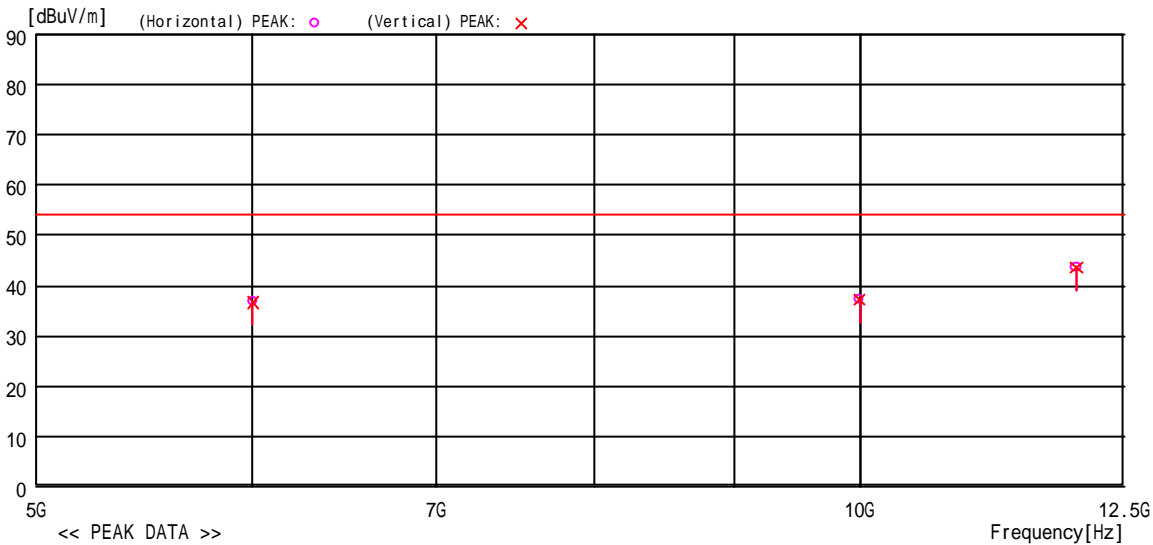
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No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq:10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq:12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq:10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq:12GHz AV

5GHz to 12.5GHz, Channel 6 with Antenna No.3

Model Name : WHR-HP-G125	Job No : CJ07-063433E
Serial No. : None	Temp./Humi. : 24 / 42%
Operator : M.Yamanaka	Condition : Operated(CH:06)
Power Supply : AC 120V , 60Hz	Remark : ANT:WLE-DA
Memo : RBW:1MHz(1GHz ~)	

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

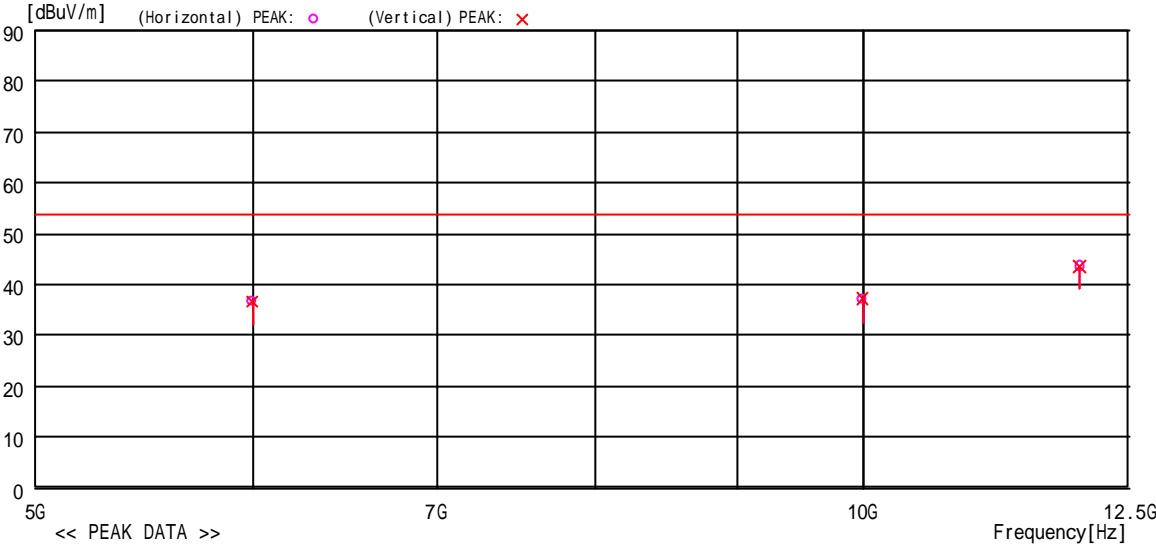


No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq: 10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq: 12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq: 10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq: 12GHz AV

5GHz to 12.5GHz, Channel 11 with Antenna No.3

Model Name : WHR-HP-G125 Job No : CJ07-063433E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated(CH:11)
 Power Supply : AC 120V , 60Hz Remark : ANT:WLE-DA
 Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



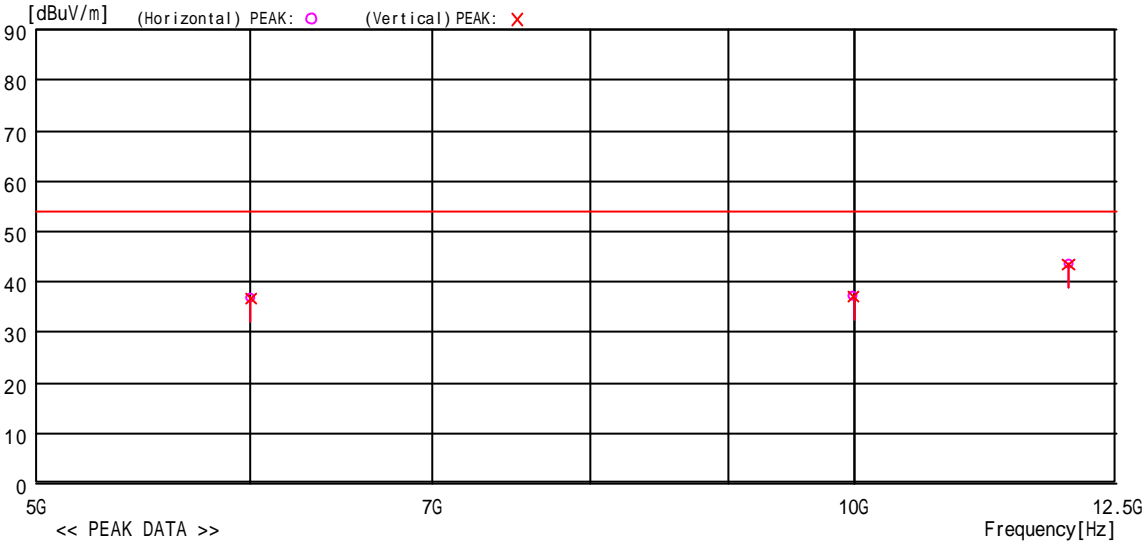
No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq:10GHz AV
3	20000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq:12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq:10GHz AV
6	20000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq:12GHz AV

5GHz to 12.5GHz, Channel 1 with Antenna No.4

Model Name	: WHR-HP-G125	Job No	: CJ07-063433E
Serial No.	: None	Temp./Humi.	: 24 /42%
Operator	: M.Yamanaka	Condition	: Operated(CH:01)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-HG-NDR

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

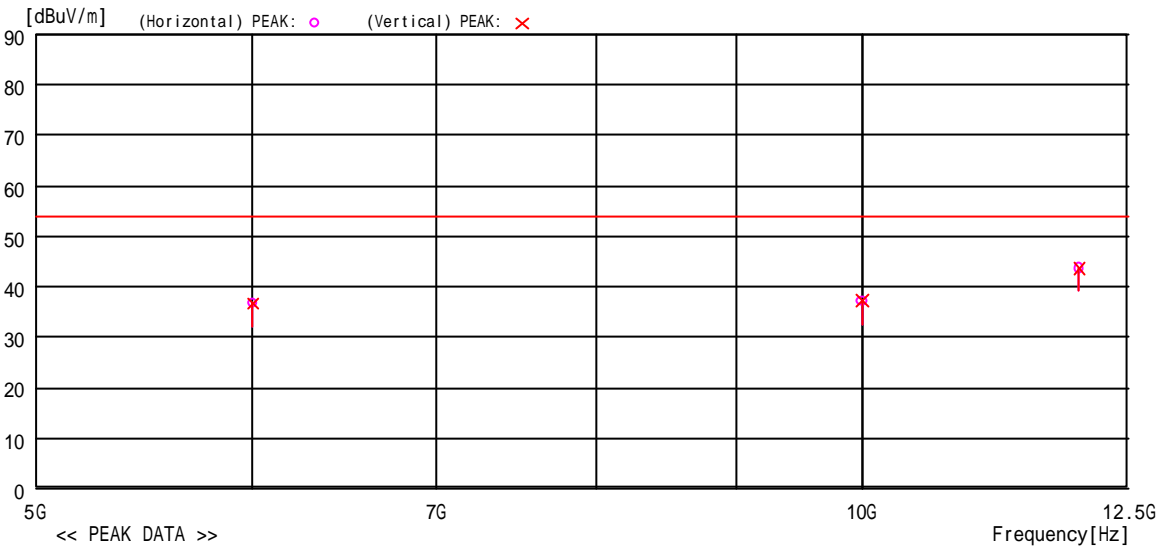


No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq:10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq:12GHz AV
4	6000.000	31.0	5.8	36.8	54.0	17.2	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq:10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq:12GHz AV

5GHz to 12.5GHz, Channel 6 with Antenna No.4

Model Name	: WHR-HP-G125	Job No	: CJ07-063433E
Serial No.	: None	Temp./Humi.	: 24 / 42%
Operator	: M.Yamanaka	Condition	: Operated(CH:06)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-HG-NDR
Memo	: RBW:1MHz(1GHz~)		

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



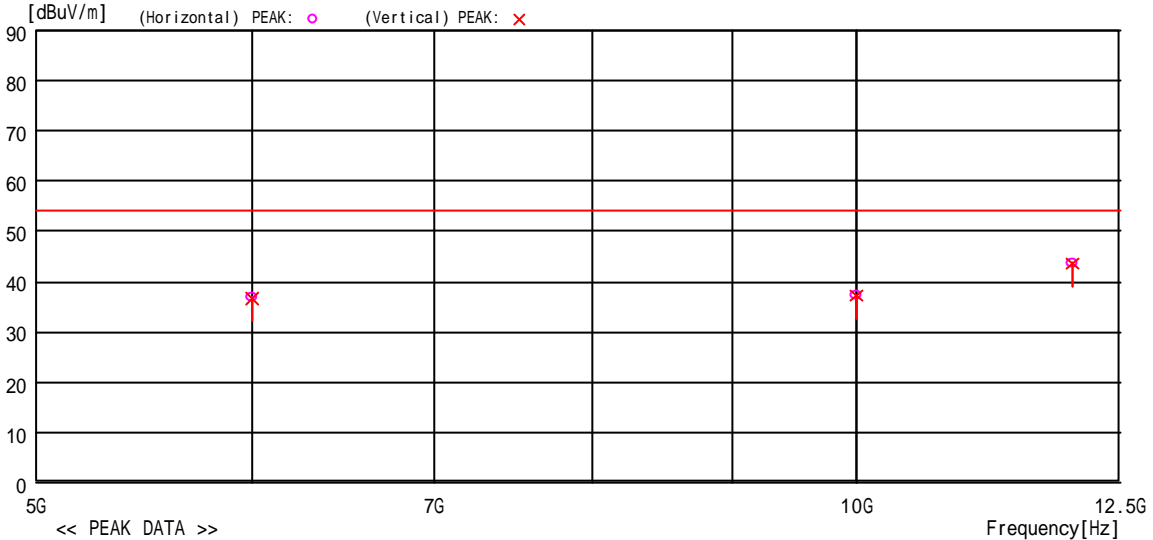
No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pol. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	6000.000	30.9	5.8	36.7	54.0	17.3	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq: 10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq: 12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq: 10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq: 12GHz AV

5GHz to 12.5GHz, Channel 11 with Antenna No.4

Model Name	: WHR-HP-G125	Job No	: CJ07-063433E
Serial No.	: None	Temp./Humi.	: 24 /42%
Operator	: M.Yamanaka	Condition	: Operated(CH:11)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-HG-NDR

Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



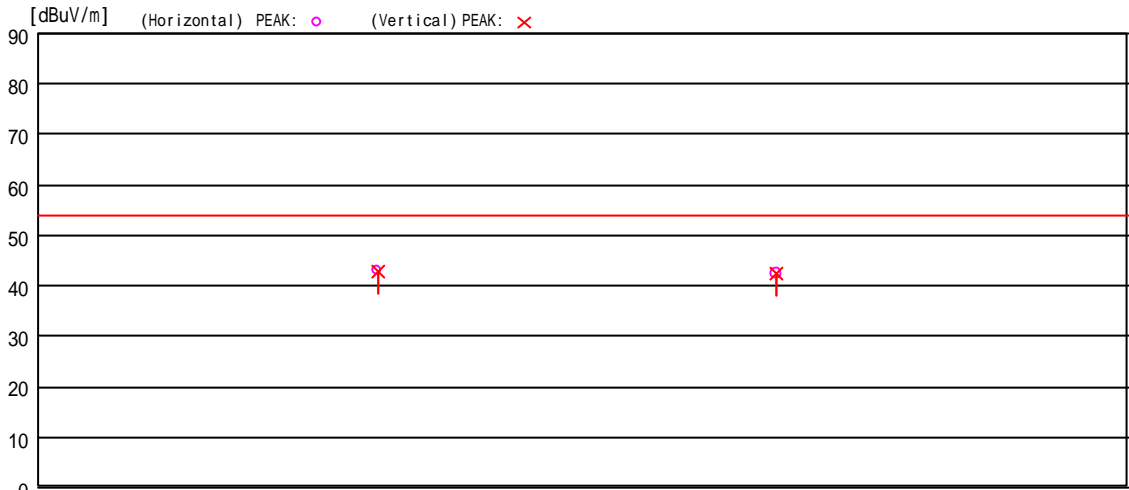
No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	6000.000	31.0	5.8	36.8	54.0	17.2	Hori.	100	0	HRN	AV
2	0000.000	24.9	12.3	37.2	54.0	16.8	Hori.	100	0	HRN	Freq:10GHz AV
3	2000.000	25.7	17.9	43.6	54.0	10.4	Hori.	100	0	HRN	Freq:12GHz AV
4	6000.000	30.9	5.8	36.7	54.0	17.3	Vert.	100	0	HRN	AV
5	0000.000	24.9	12.3	37.2	54.0	16.8	Vert.	100	0	HRN	Freq:10GHz AV
6	2000.000	25.7	17.9	43.6	54.0	10.4	Vert.	100	0	HRN	Freq:12GHz AV

12.5GHz to 18GHz, Channel 1 with Antenna No.1

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC 120V , 60Hz
 Memo : RBW:1MHz(1GHz ~)

Job No : CJ07-063426E
 Temp./Humi. : 24 /42%
 Condition : Operated (CH:01)
 Remark : ANT:4dBi Monopol

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



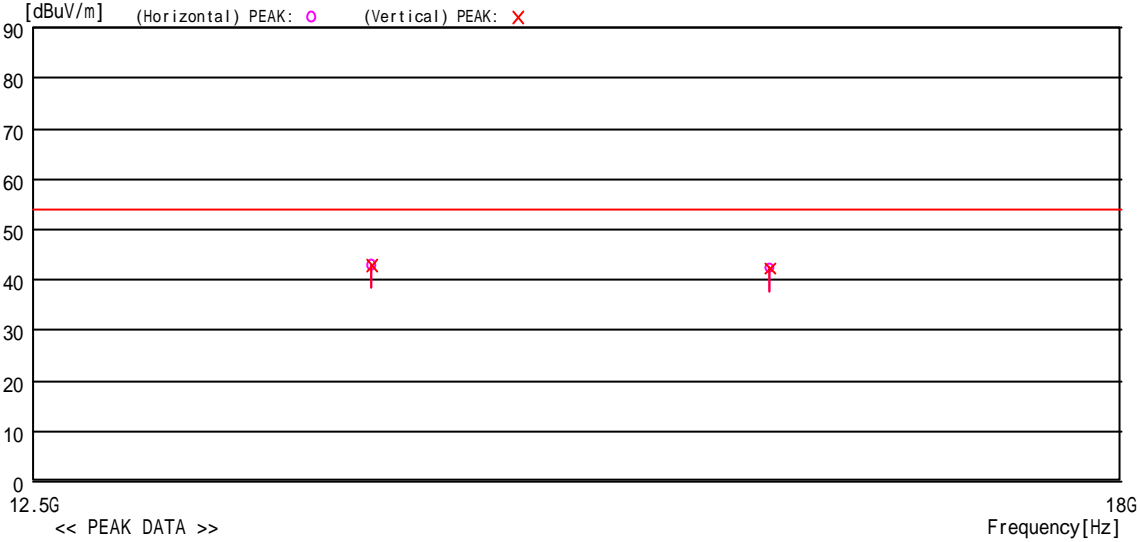
12.5G << PEAK DATA >> 18G
 Frequency[Hz]

No	Freq. [MHz]	Reading [dBuV]	C.Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pol. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 6 with Antenna No.1

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated (CH:06)
 Power Supply : AC 120V , 60Hz Remark : ANT:4dBi Monopol
 Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



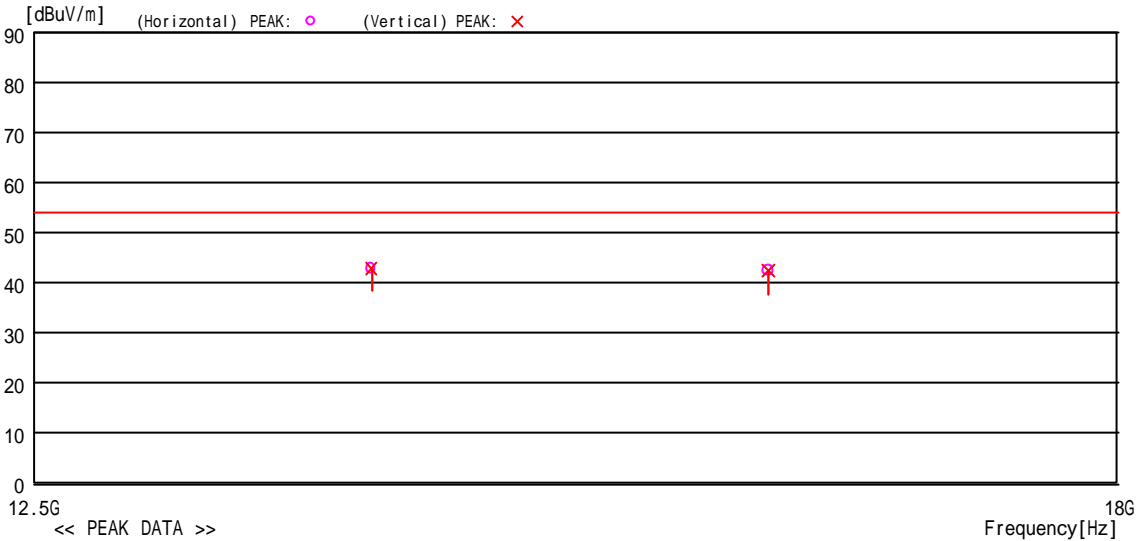
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 11 with Antenna No.1

Model Name : WHR-HP-G125
 Serial No. : None
 Operator : M.Yamanaka
 Power Supply : AC 120V , 60Hz
 Memo : RBW:1MHz(1GHz ~)

Job No : CJ07-063426E
 Temp./Humi. : 24 / 42%
 Condition : Operated (CH:11)
 Remark : ANT:4dBi Monopol

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

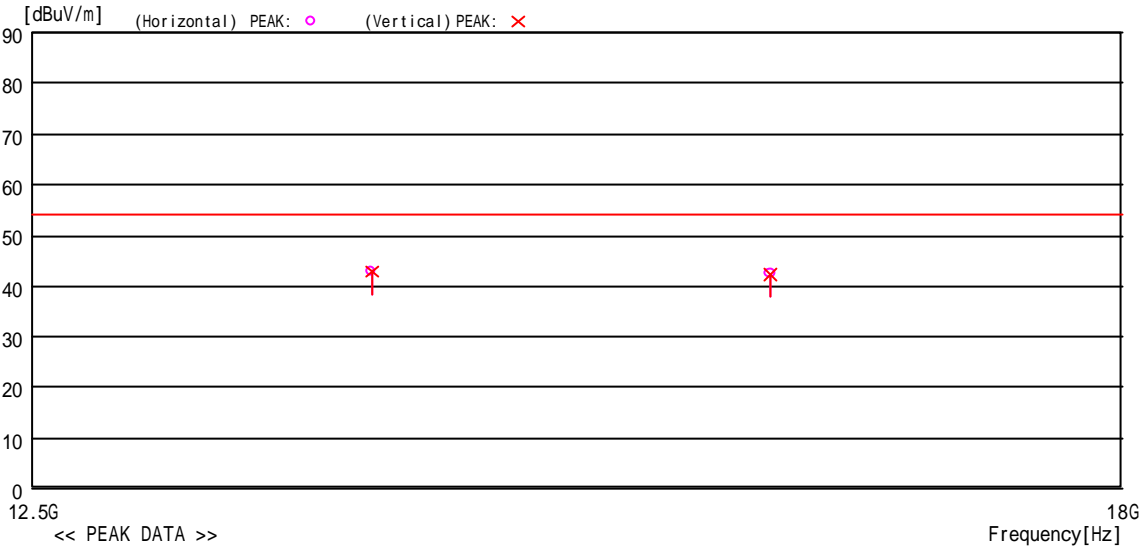


No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pol.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 1 with Antenna No.2

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp./Humi.	: 24 /42%
Operator	: M.Yamanaka	Condition	: Operated (CH:01)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-MYG
Memo	: RBW:1MHz(1GHz ~)		

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



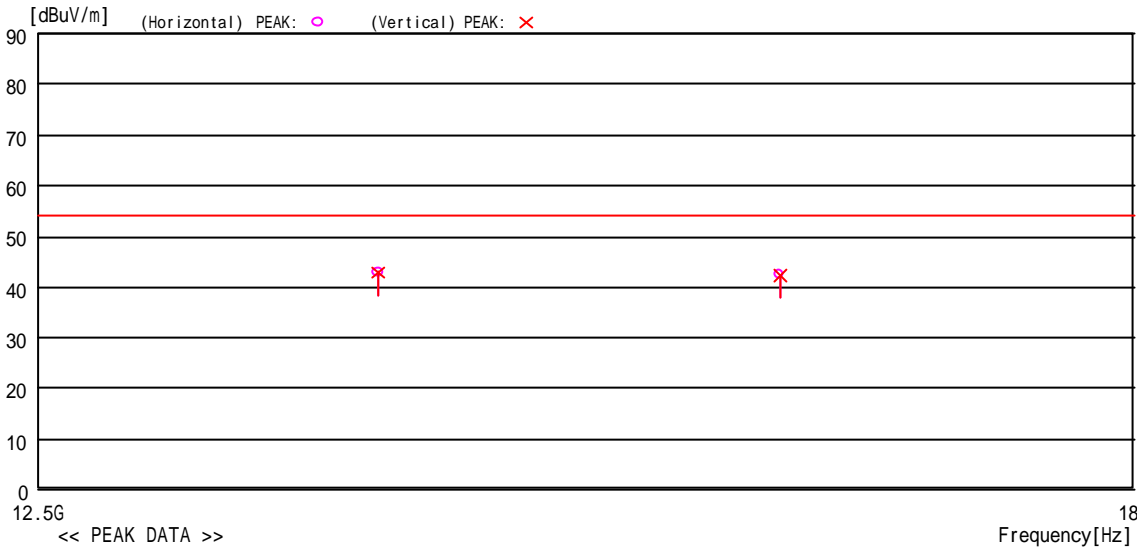
No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 6 with Antenna No.2

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp./Humi.	: 24 /42%
Operator	: M.Yamanaka	Condition	: Operated (CH:06)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-MYG

Memo : RBW:1MHz(1GHz~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

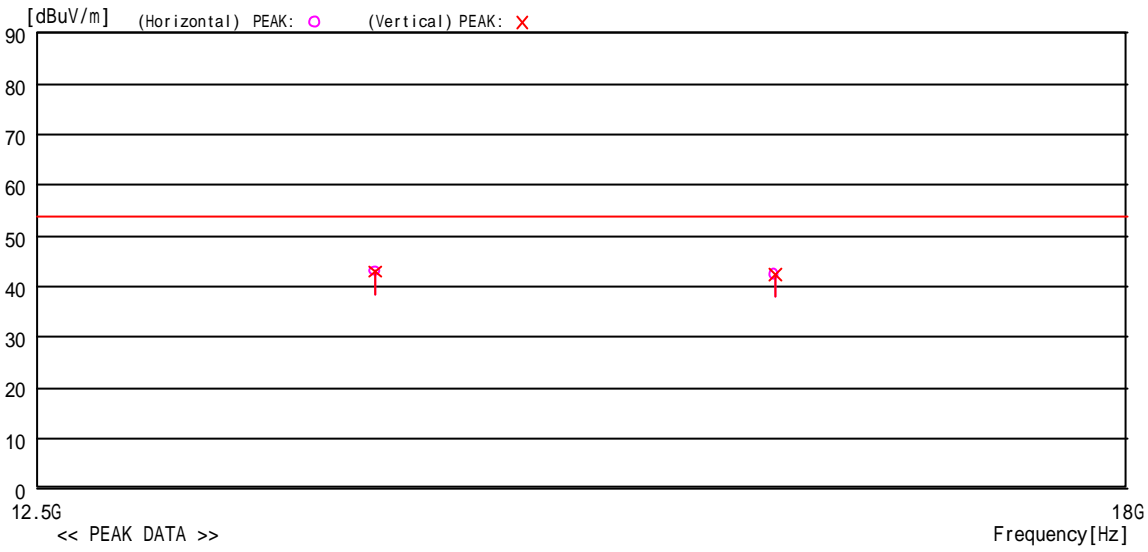


No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 11 with Antenna No.3

Model Name : WHR-HP-G125 Job No : CJ07-063426E
 Serial No. : None Temp./Humi. : 24 /42%
 Operator : M.Yamanaka Condition : Operated (CH:11)
 Power Supply : AC 120V , 60Hz Remark : ANT:WLE-DA
 Memo : RBW:1MHz(1GHz ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

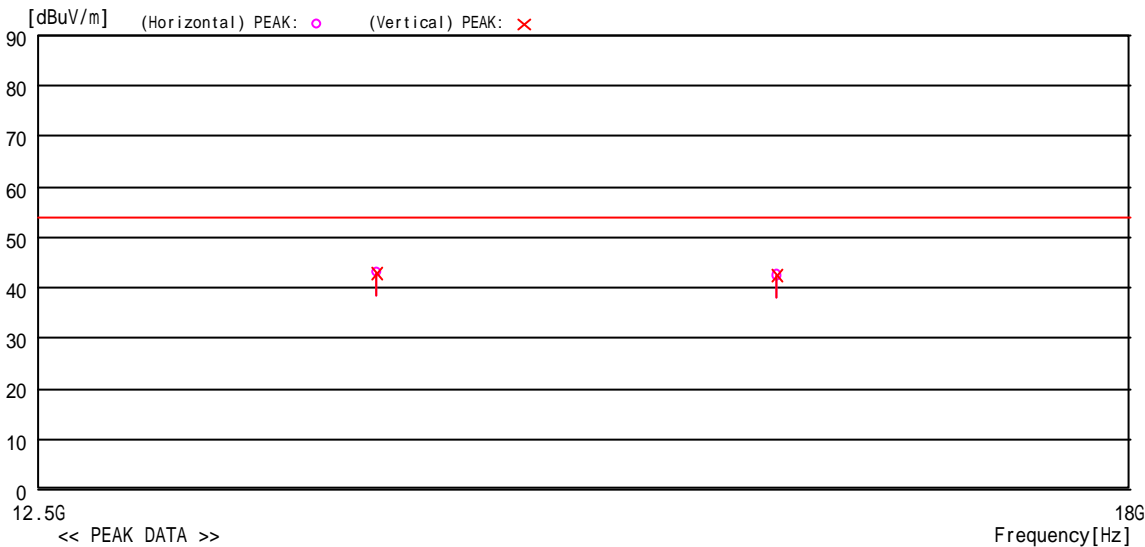


No	Freq. [MHz]	Reading [dBuV]	C. Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pola. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	8000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	8000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 1 with Antenna No.4

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp./Humi.	: 24 /42%
Operator	: M.Yamanaka	Condition	: Operated (CH:01)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-HG-NDR
Memo	: RBW:1MHz(1GHz~)		

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

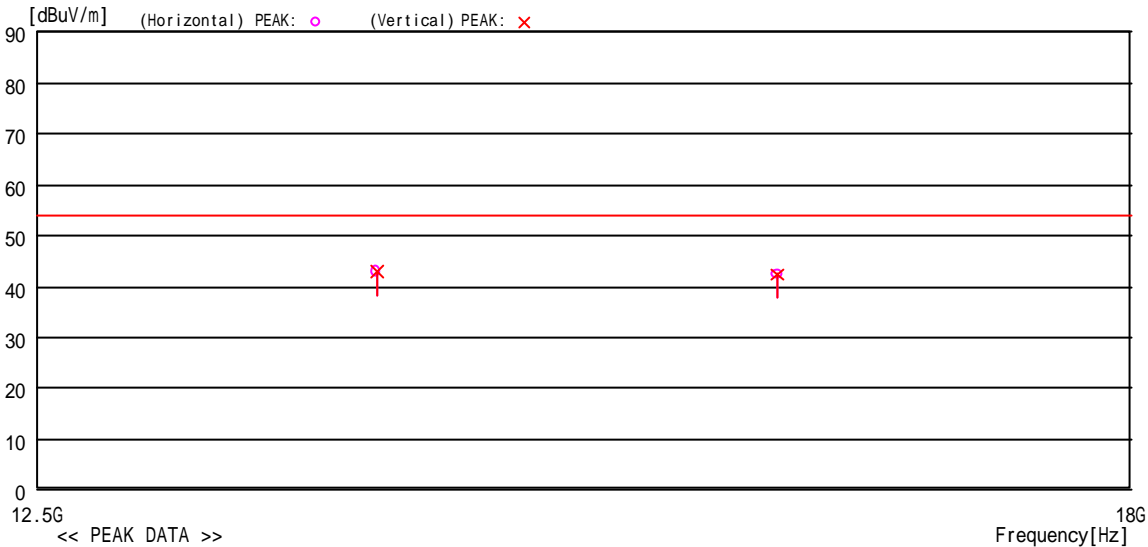


No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

12.5GHz to 18GHz, Channel 6 with Antenna No.4

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp./Humi.	: 24 / 42%
Operator	: M.Yamanaka	Condition	: Operated (CH:06)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-HG-NDR
Memo	: RBW:1MHz(1GHz ~)		

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



No	Freq.	Reading	C.Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	4000.000	26.4	16.5	42.9	54.0	11.1	Hori.	100	0	HRN	Freq:14GHz AV
2	6000.000	25.5	16.9	42.4	54.0	11.6	Hori.	100	0	HRN	Freq:16GHz AV
3	4000.000	26.4	16.5	42.9	54.0	11.1	Vert.	100	0	HRN	Freq:14GHz AV
4	6000.000	25.5	16.9	42.4	54.0	11.6	Vert.	100	0	HRN	Freq:16GHz AV

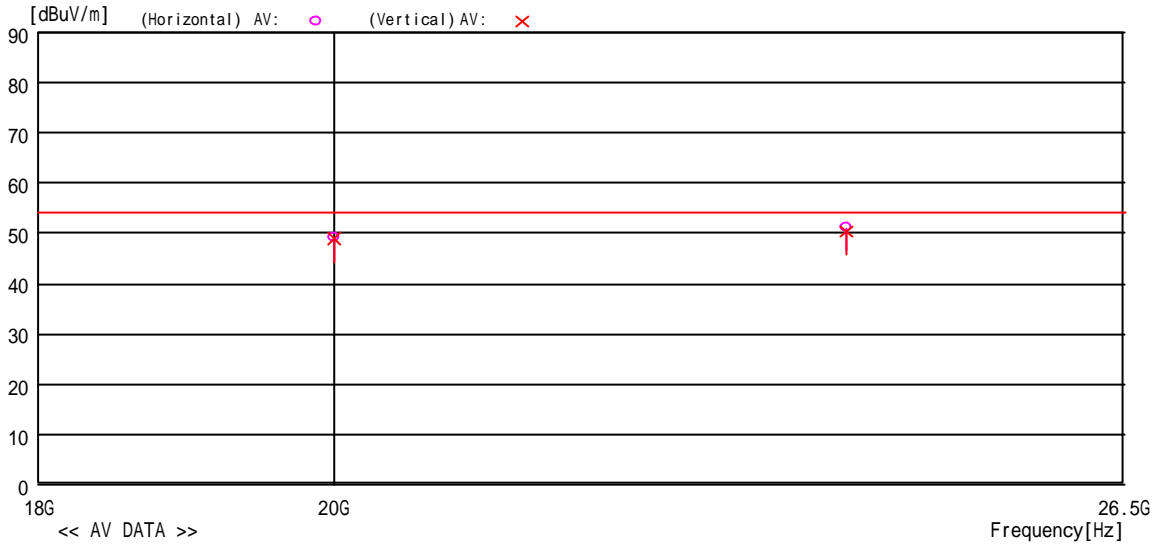
18GHz to 26.5GHz, Channel 11 with Antenna No.1

Model Name : WHR-HP-G125
Serial No. : None
Operator : M.Yamanaka
Power Supply : AC 120V , 60Hz

Job No : CJ07-063426E
Temp/Humi : 26 , 41%
Condition : Operated (CH:11)
Remark : ANT:4dBi Monopol

Memo : RBW:1MHz(1G ~)

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)

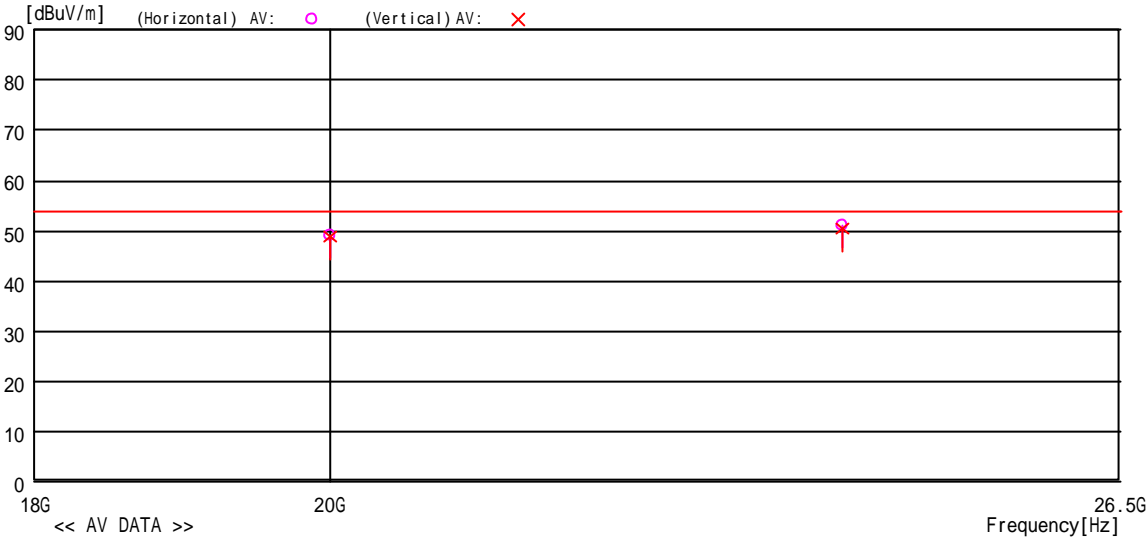


No	Freq.	Reading	C. Fac	Result	Limit	Margin	Pola.	Height	Angle	Ant	Comment
	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	Type	
1	0000.000	28.8	20.3	49.1	54.0	4.9	Hori.	100	0	HRN	Freq:20GHz AV
2	4000.000	30.4	20.7	51.1	54.0	2.9	Hori.	100	0	HRN	Freq:24GHz AV
3	0000.000	28.5	20.3	48.8	54.0	5.2	Vert.	100	0	HRN	Freq:20GHz AV
4	4000.000	29.6	20.7	50.3	54.0	3.7	Vert.	100	0	HRN	Freq:24GHz AV

18GHz to 26.5GHz, Channel 11 with Antenna No.3

Model Name	: WHR-HP-G125	Job No	: CJ07-063426E
Serial No.	: None	Temp/Humi	: 26 ,41%
Operator	: M.Yamanaka	Condition	: Operated (CH:11)
Power Supply	: AC 120V , 60Hz	Remark	: ANT:WLE-DA
Memo	: RBW:1MHz(1G ~)		

LIMIT : FCC Subpart C 15.209 (3m) 1G-26.5GHz(AV)



No	Freq. [MHz]	Reading [dBuV]	C. Fac [dB/m]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Pol. [H/V]	Height [cm]	Angle [deg]	Ant Type	Comment
1	0000.000	28.7	20.3	49.0	54.0	5.0	Hori.	100	0	HRN	Freq:20GHz AV
2	4000.000	30.4	20.7	51.1	54.0	2.9	Hori.	100	0	HRN	Freq:24GHz AV
3	0000.000	28.5	20.3	48.8	54.0	5.2	Vert.	100	0	HRN	Freq:20GHz AV
4	4000.000	29.7	20.7	50.4	54.0	3.6	Vert.	100	0	HRN	Freq:24GHz AV

5.6 15. 247(d) Power Spectrum Density**5.6.1 Setting Remarks**

- EUT directly connects to the spectrum analyzer via calibrated coaxial cable and 10 dB attenuator.
- The loss of the coaxial cable is maximum 1 dB.
- The peak output power is determined by using the marker-data function of spectrum analyzer.
- The spectrum analyzer is set-up as following;

/// Frequency Span	: 1.5 MHz
/// Resolution bandwidth	: 3 kHz
/// Video bandwidth	: 3 MHz
/// Sweep	: 500sec
/// Detector function	: Peak
/// Trace Mode	: Max Hold

- See test configuration figure 4.3.

5.6.2 Minimum Standard

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

5.6.3 Result

EUT complies with the requirement.

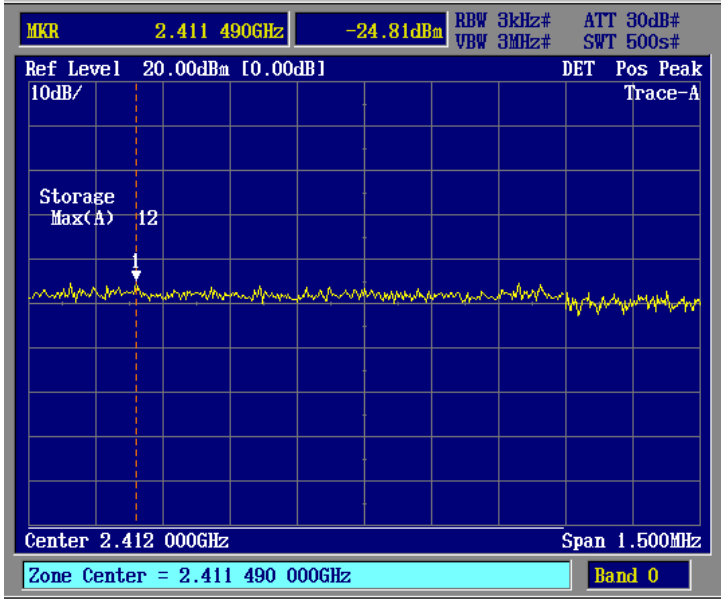
Uncertainty of measurement result: ± 0.8 dB
Temperature, Humidity : 26°C, 51%

5.6.4 Measured Data

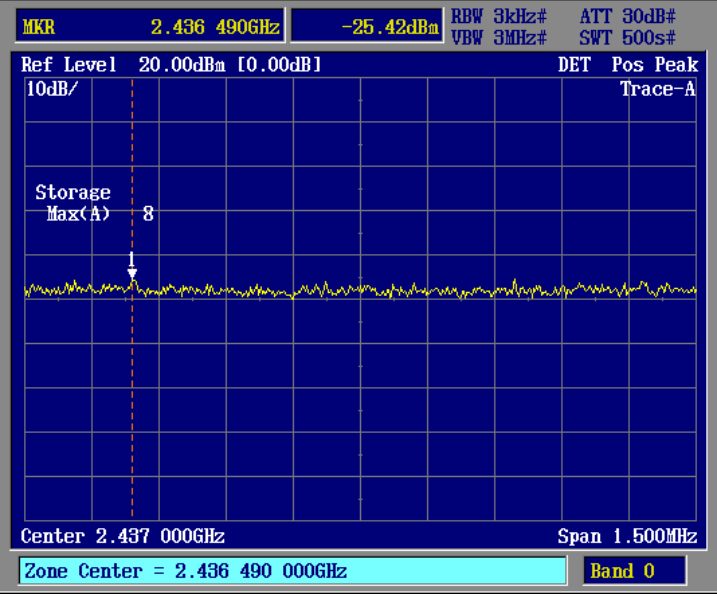
Frequency (MHz)	Correction Factor (dB)	Reading (dBm)	Peak Power	Limit (dBm)	Margin (dB)
CCK (11 Mbps)					
2412 (1ch)	20.88	-24.81	-3.93	8	11.93
2437 (6ch)	20.89	-25.42	-4.53	8	12.53
2462	20.89	-25.43	-4.54	8	12.54
OFDM (54 Mbps)					
2412 (1ch)	20.88	-26.77	-5.89	8	13.89
2437 (6ch)	20.89	-26.16	-5.27	8	13.27
2462	20.89	-25.68	-4.79	8	12.79

* Correction Factor = Cable Loss (dB) + External Attenuator (dB)

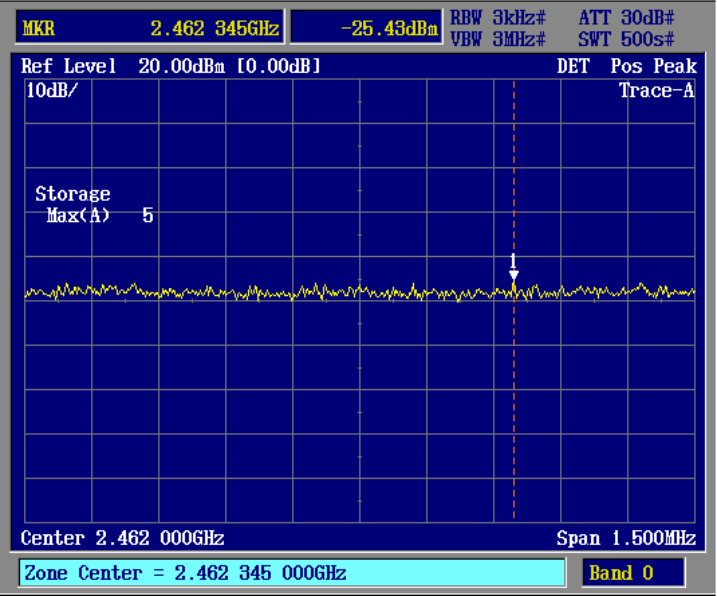
2412 MHz (1ch), CCK (11Mbps)



2437 MHz (6ch), CCK (11Mbps)



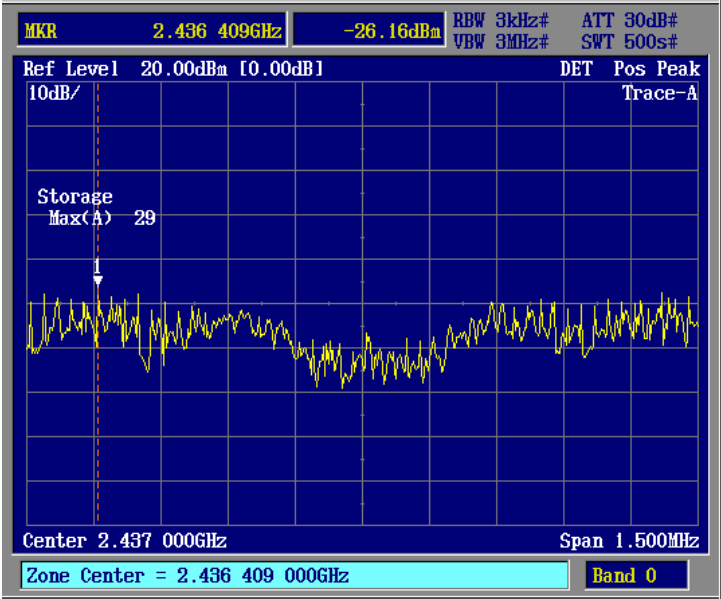
2462 MHz (11ch), CCK (11Mbps)



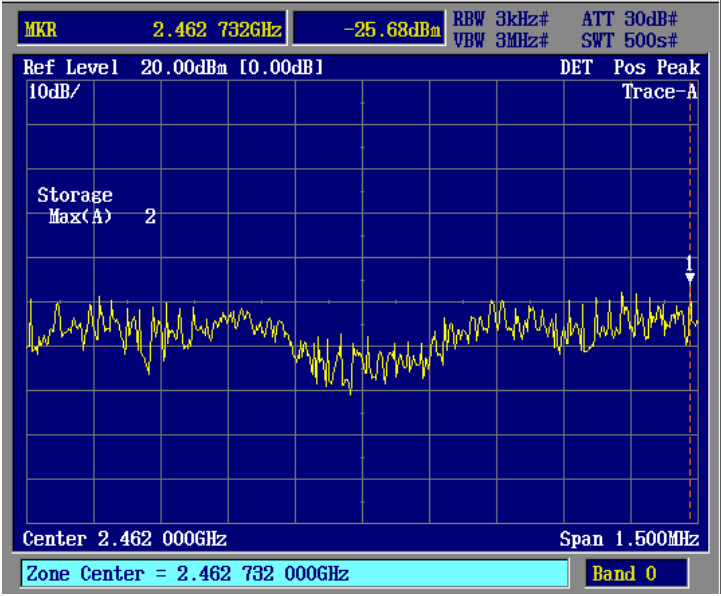
2412 MHz (1ch), OFDM (54Mbps)



2437MHz (6ch), OFDM (54Mbps)



2462 MHz (11ch), OFDM (54Mbps)



5.7 15. 247(c) Band Edge Measurement

5.7.1 Setting Remarks

- EUT directly connects to the spectrum analyzer via calibrated coaxial cable and 10 dB attenuator.
- The loss of the coaxial cable is maximum 1 dB.
- The emission at the band edge is measured by using the marker function of spectrum analyzer.
- The peak of the in-band emission is measured by using the marker to peak function of spectrum analyzer.
- This measurement is repeated in both side of the spectrum.
- The spectrum analyzer is set-up as following;

- ✂✂ Frequency Span : 30MHz
- ✂✂ Resolution bandwidth : 300kHz (1% of frequency span)
- ✂✂ Video bandwidth : RBW
- ✂✂ Sweep : Auto
- ✂✂ Detector function : Peak
- ✂✂ Trace Mode : Max Hold

- Where bandedge spectrum is too rough to find precise edge point, larger RBW i.e. 1MHz, 3MHz shall be applied as severer condition.
- See test configuration figure 4.3.

5.7.2 Minimum Standard

In any 100kHz bandwidth outside the frequency band in which the transmitter is operating, emissions shall be at least 20 dB below the fundamental emission or shall not exceed the following field strength limits. Emissions falling in the restricted bands of 15.205 shall not exceed the following field strength limits:

Frequency of Emission (MHz)	Limit of the band edge spurious emission (dBμV)	
	Peak	Average
Below 2,390.0		
Above 2,483.5	74	54

5.7.3 Result

EUT complies with the requirement.

Uncertainty of measurement result: ± 2.6 dB
 Temperature, Humidity : 26°C, 49%

5.7.4 Measured Data

The band edge emissions are calculated as following;

Lower frequency 2,390 MHz (CCK)

	Level (dBuV/m)
P_{max}	73.20
P_{av}	52.60
P_{dev}	29.64

Higher frequency 2,483.5 MHz (CCK)

	Level (dBuV/m)
P_{max}	74.40
P_{av}	52.70
P_{dev}	31.35

	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
E_{be}	43.60	74.00	30.40
E_{av}	23.00	54.00	31.00

	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
E_{be}	43.10	74.00	30.90
E_{av}	21.40	54.00	32.60

Lower frequency 2,390 MHz (OFDM)

	Level (dBuV/m)
P_{max}	66.30
P_{av}	46.30
P_{dev}	26.46

Higher frequency 2,483.5 MHz (OFDM)

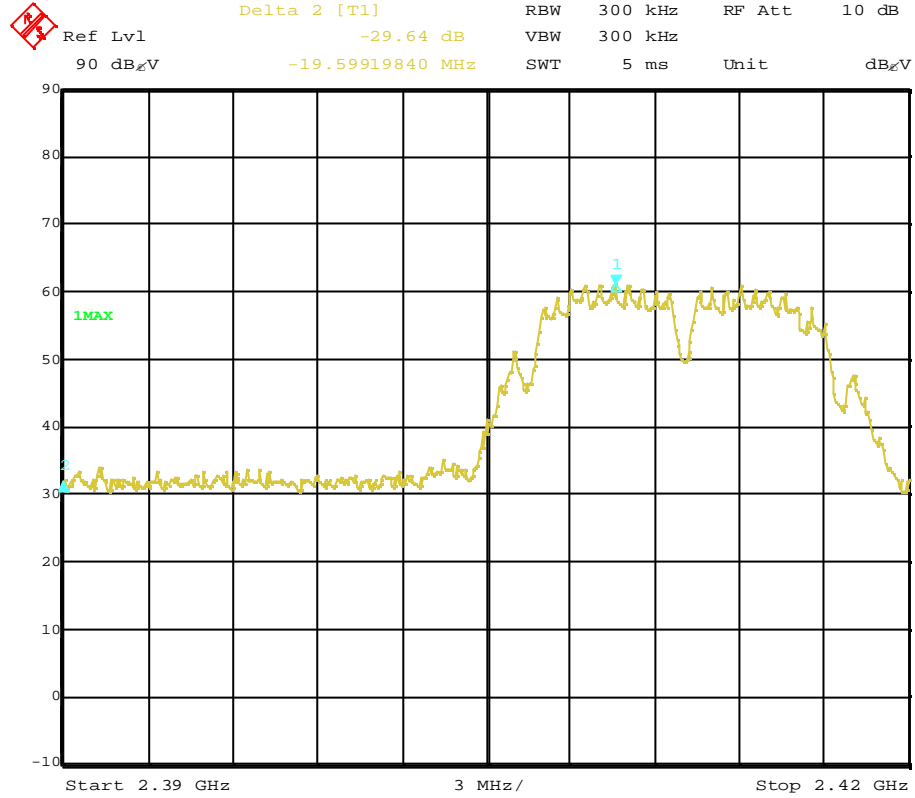
	Level (dBuV/m)
P_{max}	79.90
P_{av}	58.30
P_{dev}	38.92

	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
E_{be}	39.80	74.00	34.20
E_{av}	19.80	54.00	34.20

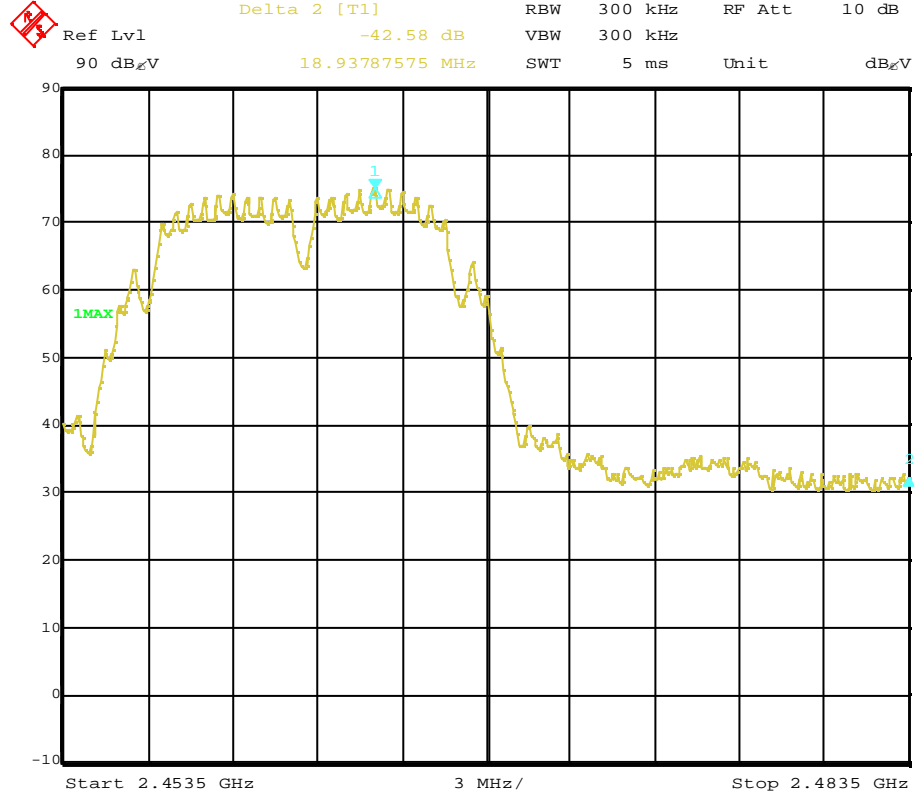
	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
E_{be}	41.00	74.00	33.00
E_{av}	19.40	54.00	34.60

- P_{max} : Maximum peak power of the fundamental.
- P_{dev} : The amplitude delta between the peak power and the band edge emission.
- E_{be} : Band edge emission.
- E_{av} : Average of the band edge emission.

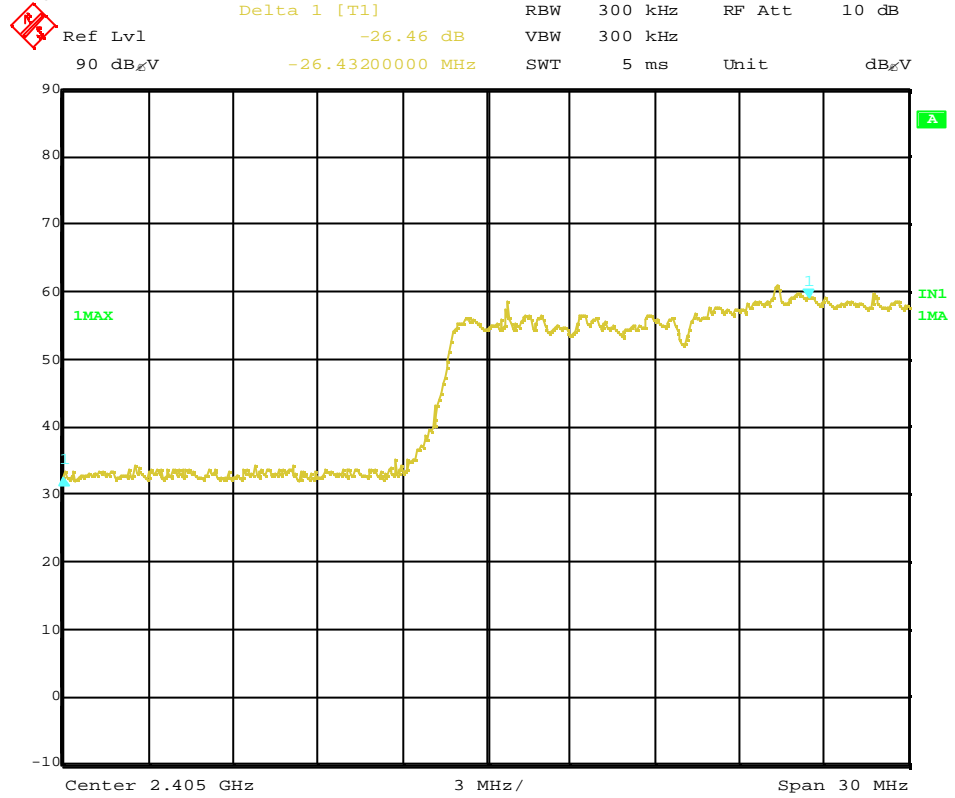
Lower frequency of the band edge 2,390.0 MHz, CCK (11Mbps)



Higher frequency of the band edge 2,483.5 MHz, CCK (11Mbps)

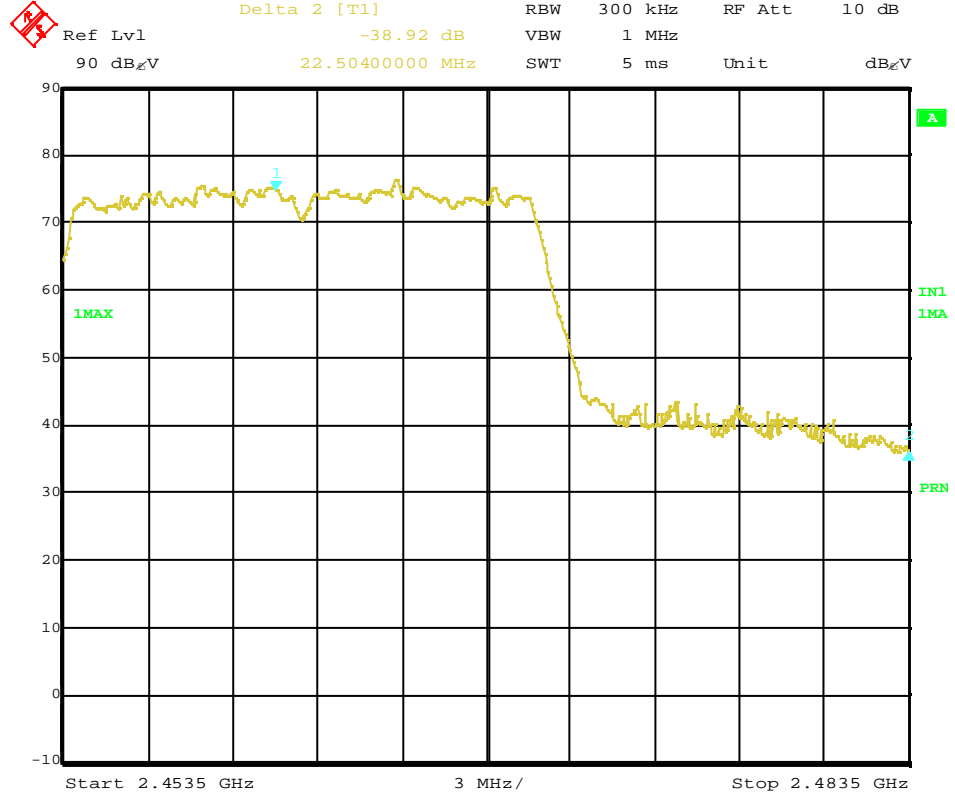


Lower frequency of the band edge 2,390.0 MHz, OFDM (54Mbps)



Date: 10.AUG.2007 02:21:23

Higher frequency of the band edge 2,483.5 MHz, OFDM (54Mbps)



Date: 10.AUG.2007 02:02:07

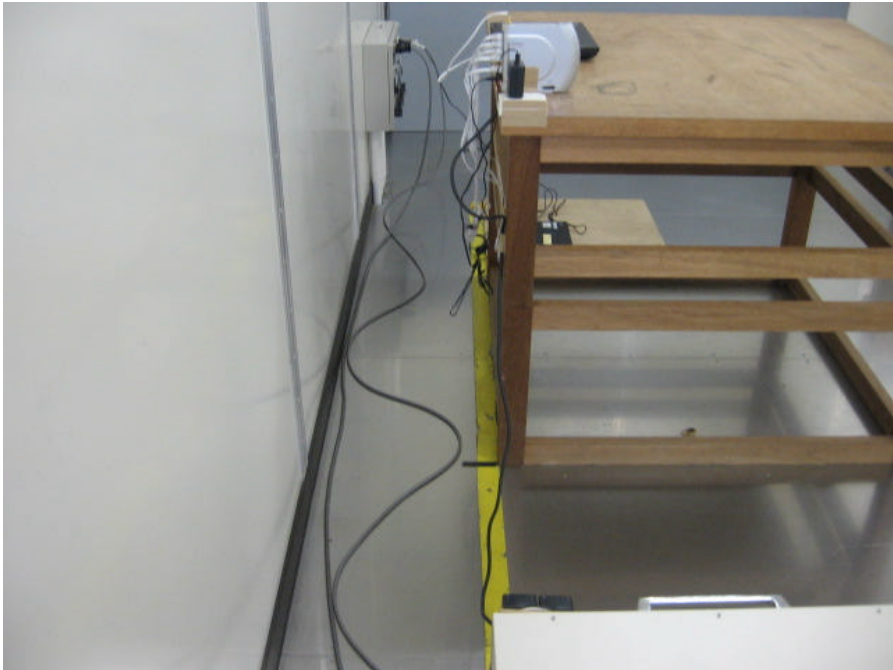
6. Photos

6.1 Setup Photo (Conducted Emission)

Front View

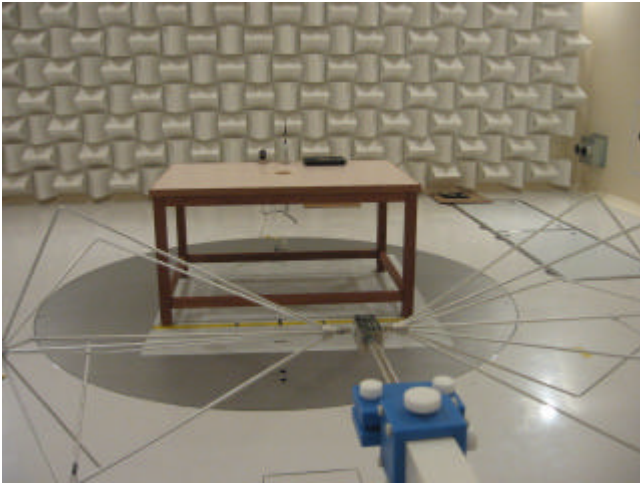


Side View

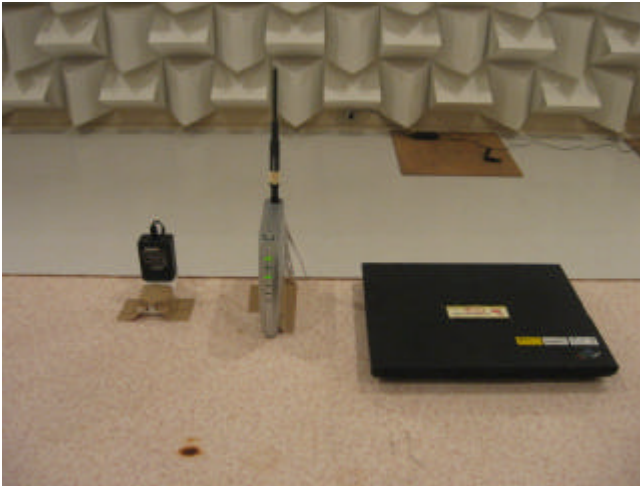


6.2 Setup Photo (Radiated Emission)

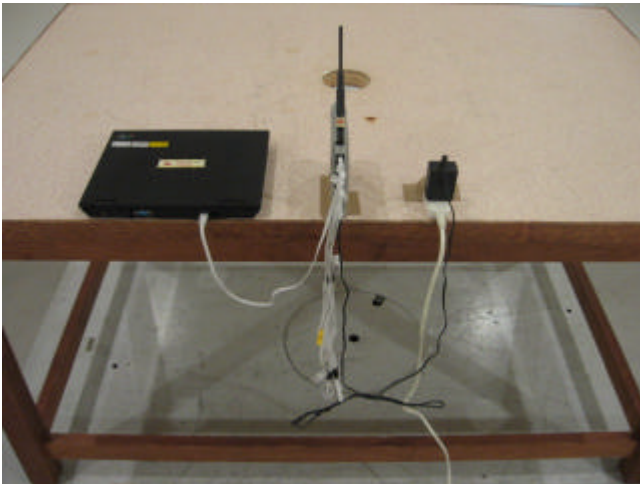
Antenna No.1



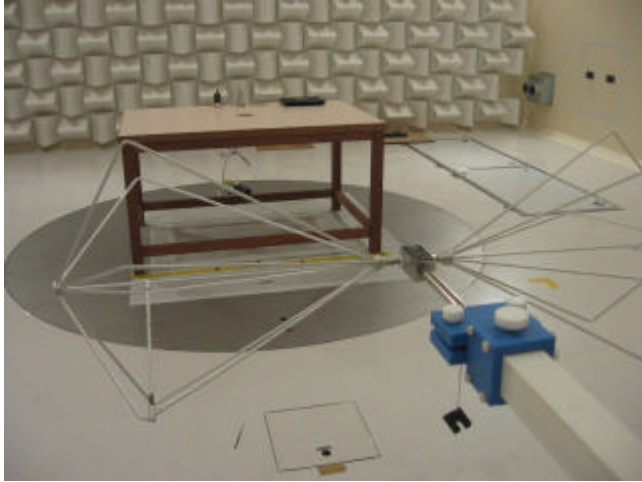
Front View



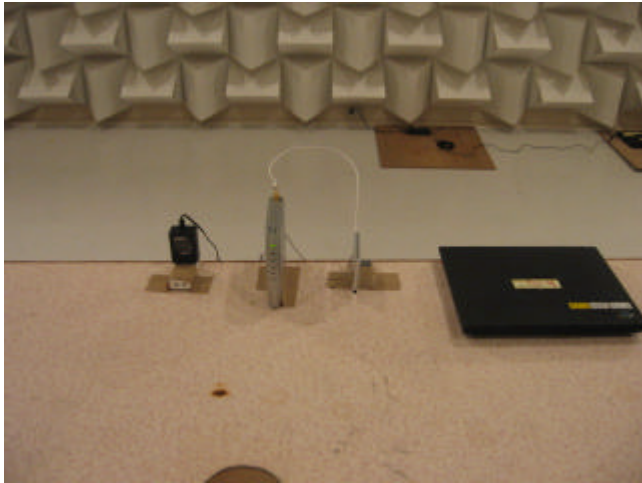
Rear View



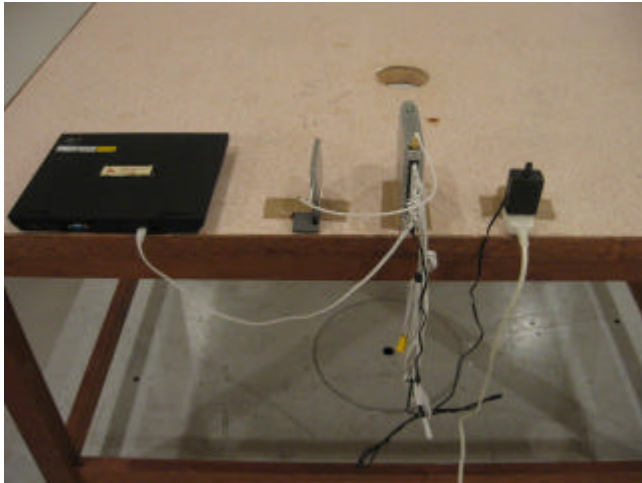
Antenna No.2



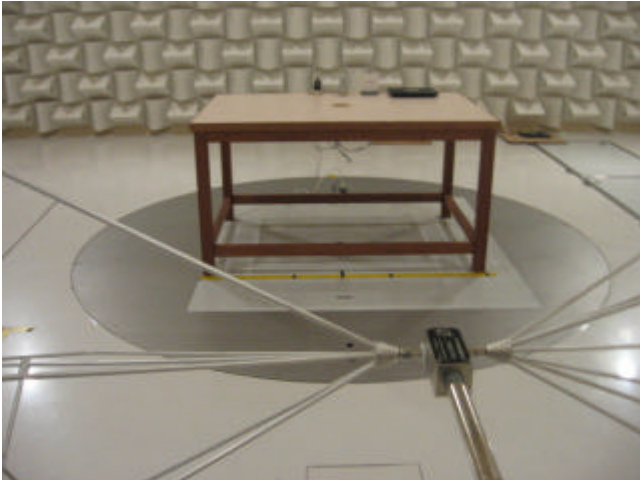
Front View



Rear View



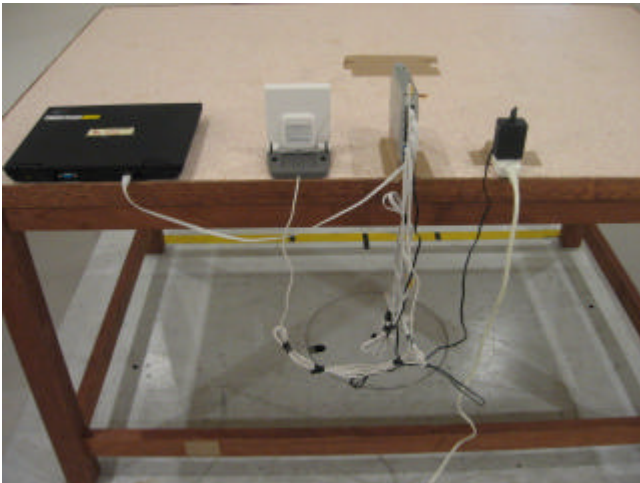
Antenna No.3



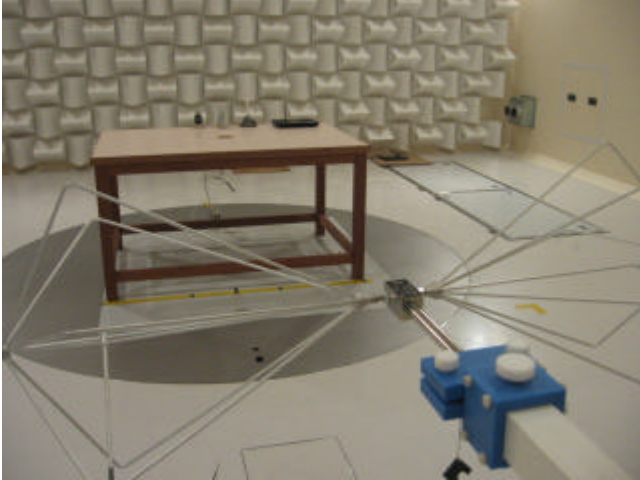
Front View



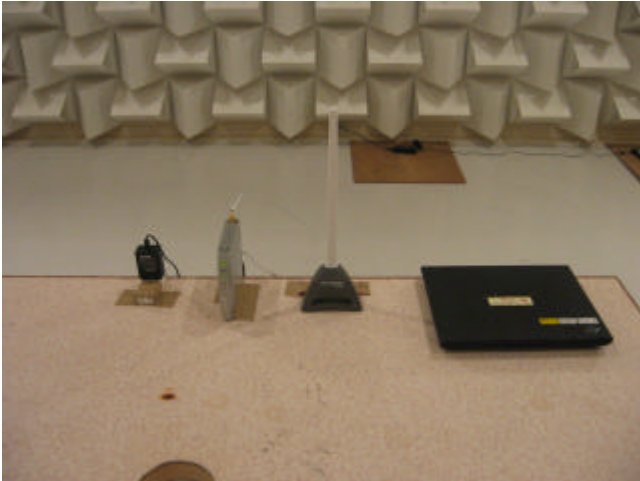
Rear View



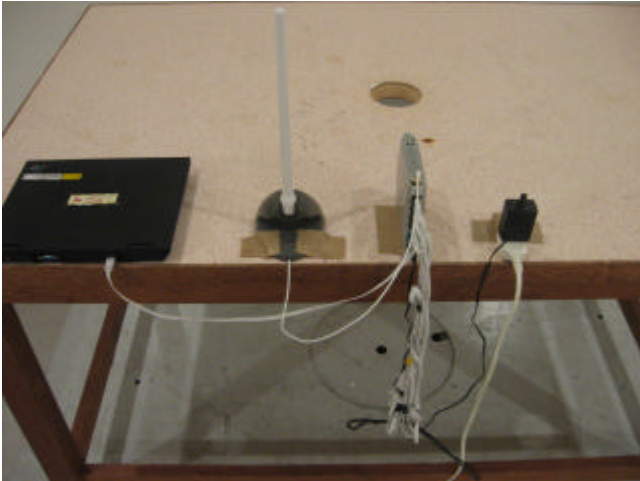
Antenna No.4



Front View



Rear View



7. List of Test Measurement Instruments

7.1 Conducted Emission

Instruments	Manufacturer	Model / Type	Serial No.	Calibration Date Next Calibration
Spectrum Analyzer	ADVANTEST CORPORATION	R3132	140501174	July, 2007 July, 2008
EMI Test Receiver	ROHDE & SCHWARZ	ESCS30	100335	May, 2007 May, 2008
Artificial-Mains Network	KYORITSU CORPORATION	KNW-341C (for EUT)	8-1659-1	September, 2006 September, 2007
Artificial-Mains Network	KYORITSU CORPORATION	KNW-244C (for Peripheral)	8-1657-1	September, 2006 September, 2007
Transient Limiter	AGILENT TECHNOLOGIES	11947A	3107A03745	July, 2007 July, 2008
RF Selector	Techno Science Japan Corp.	RFM-E221	3148	---
Spectrum Analyzer	ADVANTEST CORPORATION	R3132	140501174	July, 2007 July, 2008

7.2 Radiated Emission Measurement

Instruments	Manufacturer	Model / Type	Serial No.	Calibration Date Next Calibration
Programmable AC/DC Power Source	NF Corporation	ES18000W	425779	---
EMI Test Receiver	ROHDE & SCHWARZ	ESIB40	100211	April, 2007 April, 2008
Biconical Antenna (30 to 300MHz)	SCHWARZBECK	VHBB9124(Balun) BBA9106(Elements)	311	September, 2006 September, 2007
Log.-Periodic Antenna (300 MHz to 1 GHz)	SCHWARZBECK	UHALP 9108 A	645	September, 2006 September, 2007
Horn Antenna	SCHWARZBECK	BBHA 9120 D	446	September, 2006 September, 2007
Horn Antenna	ETS LINDGREN	3160-08	00033778	September, 2006 September, 2007
Horn Antenna	ETS LINDGREN	3160-09	00034723	September, 2006 September, 2007

7.3 Conducted Radio Measurement

Instruments	Manufacturer	Model / Type	Serial No.	Calibration Date Next Calibration
DC Power Source	Diamond Antenna	GSV3000	01101481	---
Spectrum Analyzer	Anritsu	MS2687B	620016270 6	April, 2007 April, 2008
Signal Generator	Agilent Technology	E8254A	US411401 86	June, 2007 June, 2008
Oscilloscope	Tektronix	TDS794D	B031832	June, 2007 June, 2008
Diode Detector	Agilent Technology	423B	MY422418 36	March, 2007 March, 2008