



EMI TEST REPORT

Test Report No. : 25HE0249-HO-1


Applicant : Panasonic Communications Co., Ltd.
Type of Equipment : Wireless Camera Monitoring System
Model No. : BL-WV10A
Test standard : FCC Part 15 Subpart C
Section 15.207, Section 15.247 : 2004
FCC ID : ACJ96NBL-WV10
Test Result : Complied

1. This test report shall not be reproduced in full or partial, without the written approval of UL Apex Co., Ltd.
2. The results in this report apply only to the sample tested.
3. This equipment is in compliance with above regulation. We hereby certify that the data contain a true representation of the EMC profile.
4. The test results in this report are traceable to the national or international standards.

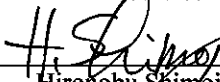
Date of test:

April 21 to 22, 2005

Tested by:


Yutaka Yoshida
EMC Service

Approved by :


Hironobu Shimoji
Group Leader of
EMC Service

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

CONTENTS	PAGE
SECTION 1: Client information	3
SECTION 2: Equipment under test (E.U.T.)	3
SECTION 3: Test specification, procedures & results	4
SECTION 4: Operation of E.U.T. during testing	6
SECTION 5: Conducted Emission	8
SECTION 6: Spurious Emission	9
SECTION 7: Bandwidth	10
SECTION 8: Maximum Peak Output Power	10
SECTION 9: Peak Power Density	10
APPENDIX 1: Photographs of test setup	11
Conducted Emission	11
Spurious Emission (Radiated)	12
Worst Case Position (90 degree(left):Horizontal / 0 degree:Vertical)	13
APPENDIX 2: Test instruments	14
APPENDIX 3: Data of EMI test	15
AC Main Conducted Emission	15
6dB Bandwidth (Antenna Terminal)	23
Maximum Peak OutPut Power (Antenna Terminal)	26
Radiated Spurious Emission	29
Conducted Spurious Emission (Antenna Terminal)	41
Conducted emission Band Edge compliance (Antenna Terminal)	47
Power Density (Antenna Terminal)	48
99%Occupied Bandwidth (Antenna Terminal)	51

SECTION 1: Client information

Company Name : Panasonic Communications Co., Ltd.
Brand name : Panasonic
Address : 1-62, 4-Chome, Minoshima, Hakata-ku, Fukuoka-shi, Fukuoka,
812-8531 Japan
Telephone Number : +81-92-477-1405
Facsimile Number : +81-92-477-1487
Contact Person : Kunihiko Nawata

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : Wireless Camera Monitoring System
Model No. : BL-WV10A
Serial No. : ES1
Rating : AC120V/60Hz, 0.24A
Country of Manufacture : Japan
Receipt Date of Sample : April 21, 2005
Condition of EUT : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)

2.2 Product Description

Clock frequencies in the system		RF: 40MHz, CPU: 20MHz, LAN: 25MHz Local frequency: 672MHz, 1740-1790MHz
Feature of EUT		This system is a Wireless Camera Monitoring System, which provides with a high speed wireless LAN for IEEE802.11b/g.
Equipment Type		Transceiver
Frequency band	Lower limit	2412MHz
	Upper limit	2462MHz
Frequency of Operation		2412-2462MHz
Intermediate frequency		672MHz
Duty Cycle		100% (Continuous transmit)
Type of Modulation		DSSS, OFDM
Antenna Type		Dipole
Antenna Connector Type		Murata MM8430 (SMT)
Antenna Gain		2.14dBi
Mode of Operation		Simplex
ITU code		G1D
Operating voltage		DC12.0V (Output voltage from an AC Adapter) DC3.3V, DC2.5V (Supply voltage to a module part)
Method of Frequency Generation		Synthesizer

FCC 15.31 (e)

The AC Adapter provides stable voltage(DC12V) to the EUT(BL-WV10A) regardless of input voltage variation. The DC voltage(DC12V) provided to EUT(BL-WV10A) is constantly converted and provided as DC3.3V and DC2.5V for the operational voltage within RF module. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

The antenna is not removable from EUT. Therefore, the equipment complies with the antenna requirement of Section 15.203.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification : FCC Part15 Subpart C : 2004
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits : 2004
Section 15.247 Operation within the bands 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz : 2004

3.2 Procedures and results

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	Conducted emission	ANSI C63.4:2003 7. AC powerline conducted emission measurements	Section 15.207	-	N/A	<IEEE802.11g 2437MHz> 20.1dB 5.0866MHz, AV, L	Complied
2	6dB Bandwidth	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(a)(2)	Conducted	N/A	*See data.	Complied
3	Maximum Peak Output Power	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247(b)(3)	Conducted	N/A	*See data.	Complied
4	Spurious Emission	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (d)	Conducted/ Radiated	N/A	<IEEE802.11g 2462MHz> 2.8dB 2483.5MHz, Vertical, PK	Complied
5	Restricted Band Edges	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (d)	Conducted	N/A	*See data.	Complied
6	Power Density	ANSI C63.4:2003 13. Measurement of intentional radiators	Section 15.247 (e)	Conducted	N/A	*See data.	Complied

Note: UL Apex's EMI Work Procedures No.QPM05.

Uncertainty:

*In case of the margin below the EMC Head Office's uncertainty.

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

Conducted Emission

The measurement uncertainty (with a 95% confidence level) for this test is ± 1.3 dB.

Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test using Biconical antenna is ± 4.5 dB(3m)/ ± 4.7 dB(10m).

The measurement uncertainty (with a 95% confidence level) for this test using Logperiodic antenna is ± 5.2 dB(3m)/ ± 3.8 dB(10m).

The measurement uncertainty (with a 95% confidence level) for this test using Horn antenna is ± 6.6 dB.

Other test except Conducted Emission and Spurious Emission (Radiated)

The measurement uncertainty (with a 95% confidence level) for this test is ± 3.0 dB.

*These tests were also referred to "Guidance on Measurement for Digital Transmission Systems Section15.247".

*These tests were performed without any deviations from test procedure except for additions or exclusions.

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

3.3 Addition to standards

No.	Item	Test Procedure	Specification	Remarks	Deviation	Worst margin	Results
1	99% Occupied Band Width	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4: 2004	RSS-210(issue 5): 2001 + Amendment:2002 + Amendment2:2003 + Amendment3:2004 + Amendment4: 2004	Conducted	N/A	N/A	N/A

3.3 Additions or deviations to standards

No addition, deviation, nor exclusion has been made from standards.

3.4 Test Location

UL Apex Co., Ltd. Head Office EMC Lab. *NVLAP Lab. code: 200572-0
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116 Facsimile : +81 596 24 8124

	FCC Registration Number	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms
No.1 semi-anechoic chamber	313583	IC4247	19.2 x 11.2 x 7.7m	7.0 x 6.0m	Preparation room
No.2 semi-anechoic chamber	846015	IC4247-2	7.5 x 5.8 x 5.2m	4.0 x 4.0m	-
No.3 shielded room	-	-	4.7 x 7.5 x 2.7m	4.7 x 7.5m	-
No.4 measurement room	-	-	3.1 x 5.0 x 2.7m	N/A	-

* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0m for No.1 and No.2 semi-anechoic and No.3 shielded room.

3.5 Test set up, Test instruments and Data of EMI

Refer to APPENDIX 1 to 3.

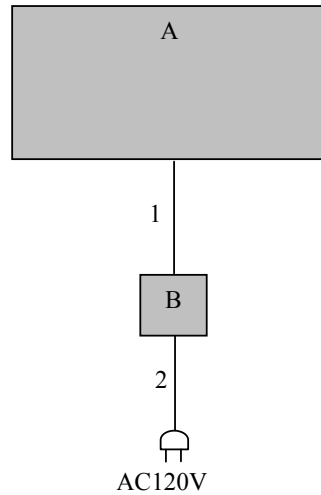
SECTION 4: Operation of E.U.T. during testing

4.1 Operating Modes

- The mode is used :
1. Transmitting mode(IEEE 802.11b : CCK (QPSK, 11Mbps))
 - Low channel : 2412MHz
 - Middle channel : 2437MHz
 - High channel : 2462MHz
 2. Transmitting mode(IEEE 802.11g : OFDM(64QAM, 54Mbps))
 - Low channel : 2412MHz
 - Middle channel : 2437MHz
 - High channel : 2462MHz

The EUT has an ability to provide some different data rates. The maximum power in various data rates was checked before formal test/measurement.(pre-check) The formal test/measurement was performed with maximum power as pre-checked result.

4.2 Configuration and peripherals



- * Cabling was taken into consideration and test data was taken under worse case conditions.
- * No ferrite core was used during the test.

Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID
A	Wireless Camera Monitoring System	BL-WV10A	ES1	Panasonic Communications	ACJ96NBL-WV10
B	AC Adapter	PQLV202Y	-	Panasonic Communications	-

List of cables used

No.	Name	Length (m)	Shield	Backshell Material
1	DC cable	3.0	N	Polyvinyl chloride
2	AC cable	1.8	N	Polyvinyl chloride

SECTION 5: Conducted Emission

Test Procedure and conditions

EUT was placed on a platform of nominal size, 1.0m by 1.5m, raised 80cm above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN)/ Artificial mains Network (AMN) and excess AC cable was bundled in center.

1) For the tests on EUT with other peripherals (as a whole system)

I/O cable and AC cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane.

2) For the tests on EUT itself (as a stand alone equipment)

Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN/(AMN) to the input power source. All unused 50ohm connectors of the LISN(AMN) were resistivity terminated in 50ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber or a Measurement Room.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

Detector	: CISPR quasi-peak and average detector (IF BW 9 kHz)
Measurement range	: 0.15-30MHz
Test data	: APPENDIX 3
Test result	: Pass

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 6: Spurious Emission

[Conducted]

Test Procedure

The Out of Band Emission was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3

Test result : Pass

[Radiated]

Test Procedure

EUT was placed on a platform of nominal size, 1.5m by 1.0m, raised 80cm above the conducting ground plane. The Radiated Electric Field Strength intensity has been measured in a Semi Anechoic Chamber with a ground plane and at a distance of 3m(Below 10GHz) and 1m(Upper 10GHz).

The height of the measuring varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

The result also satisfied with the general limits specified in section 15.209(a).

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver	Spectrum Analyzer
Detector	QP: BW 120kHz	PK: RBW:1MHz/VBW: 1MHz
IF Bandwidth		AV: RBW:1MHz/VBW:10Hz

20dBc was applied to the frequency over the limit of FCC 15.209 and outside the restricted band of 15.205.

Frequency	Below 1GHz	Above 1GHz
Instrument used	Test Receiver / Spectrum Analyzer	Spectrum Analyzer
Detector	QP: BW 120kHz(T/R)	PK: RBW:1MHz/VBW: 1MHz
IF Bandwidth	20dBc : RBW: 100kHz VBW: 300kHz (S/A)	AV: RBW:1MHz/VBW:10Hz 20dBc : RBW:100kHz/VBW:300kHz

The carrier level and noise levels were confirmed at each position of 90 degree(Left), 90 degree(Right), and 0 degree of EUT Antenna to see the position of maximum noise, and the test was made at the position that has the maximum noise.

Test data : APPENDIX 3

Test result : Pass

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

SECTION 7: Bandwidth

Test Procedure

The bandwidth was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 8: Maximum Peak Output Power

Test Procedure

The test was made with the spectrum analyzer that has a function of channel-power measurements.
The Maximum Peak Output Power was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

SECTION 9: Peak Power Density

[Conducted]

Test Procedure

The Peak Power Density was measured with a spectrum analyzer connected to the antenna port.

Test data : APPENDIX 3
Test result : Pass

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

APPENDIX 1: Photographs of test setup

Conducted Emission
Front



Rear



Spurious Emission (Radiated)

Front



Rear



Worst Case Position (90 degree(left):Horizontal / 0 degree:Vertical)

0 degree



90 degree (left)



90 degree (Right)



APPENDIX 2: Test instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE/CE	2004/11/13 * 12
MHA-05	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2005/01/10 * 12
MPA-01	Pre Amplifier	Agilent	8449B	RE	2005/02/05 * 12
MAT-20	Attenuator(10dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	RE/1/2/4/5/6	2005/01/11 * 12
MHF-02	High Pass Filter	Tokimec	TF323DCA	RE	2004/09/18 * 12
MCC-05	Microwave Cable	Storm	421-011	RE	2005/01/05 * 12
MCC-23	Microwave Cable	Storm	-	RE	2004/05/01 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2004/11/12 * 12
MHA-01	Horn Antenna	EMCO	3160-09	RE	2005/01/10 * 12
MCC-01	Coaxial Cable 0.1-3000MHz	Suhner/storm/Agilent/TSJ	-	RE	2004/12/19 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2004/12/16 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2004/10/14 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2004/10/14 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2004/05/25 * 12
MLS-02	LISN(AMN)	Schwarzbeck	NSLK8127	CE(2004/11/10 * 12
MCC-03	Coaxial Cable	Fujikura/Suhner/Agilent/TSJ	-	CE	2004/12/24 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	1/2/3/4/5/6	2004/06/12 * 12

All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Test Item:

- CE: Conducted Emission (AC Conduction)
- RE: Radiated Spurious Emission
- 1: Conducted Spurious Emission(Antenna Terminal)
- 2: Maximum Peak Output Power
- 3: 6dB Bandwidth
- 4: Power Density
- 5: Band Edge compliance (Antenna Terminal)
- 6: 99% Occupied Bandwidth

UL Apex Co., Ltd.

Head Office EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(10.04.03)

APPENDIX 3: Data of EMI test

AC Main Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2005/04/22 09:44:57

Applicant	: Panasonic Communications Co., Ltd.	Report No.	: 25HE0249-HO
Kind of EUT	: Wireless Camera Monitoring System	Power	: AC120V / 60Hz
Model No.	: BL-WV10A	Temp./Humi.	: 22 deg. C / 33 %
Serial No.	: ES1	Operator	: Yutaka Yoshida

Mode / Remarks: 11b 2412MHz 11Mbps

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

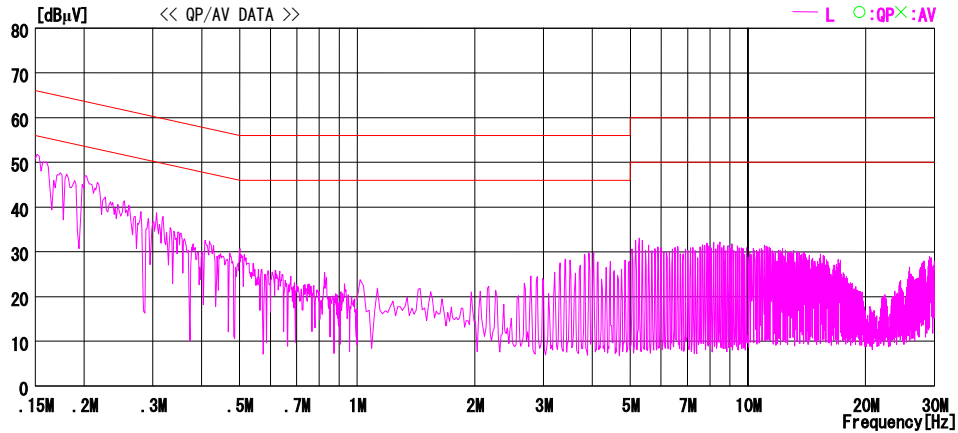
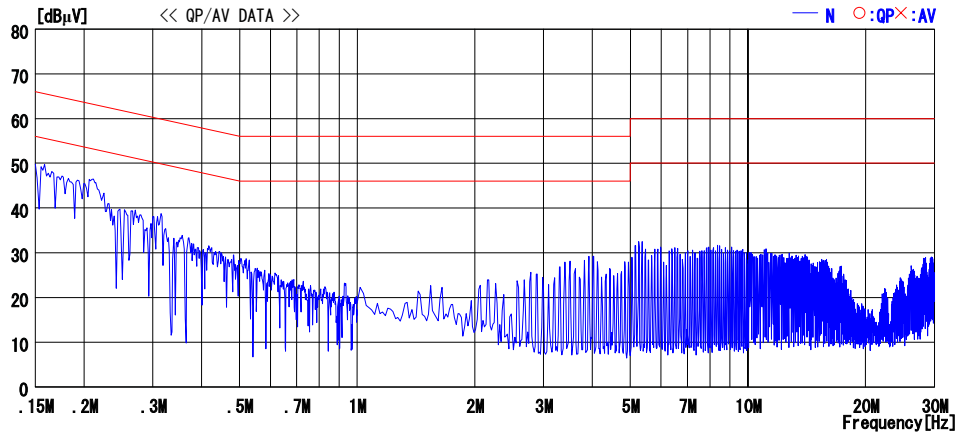


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/04/22 09:56:24

Applicant : Panasonic Communications Co., Ltd.	Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System	Power : AC120V / 60Hz
Model No. : BL-WV10A	Temp./Humi. : 22 deg. C / 33 %
Serial No. : ES1	Operator : Yutaka Yoshida

Mode / Remarks: 11b 2437MHz 11Mbps

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)

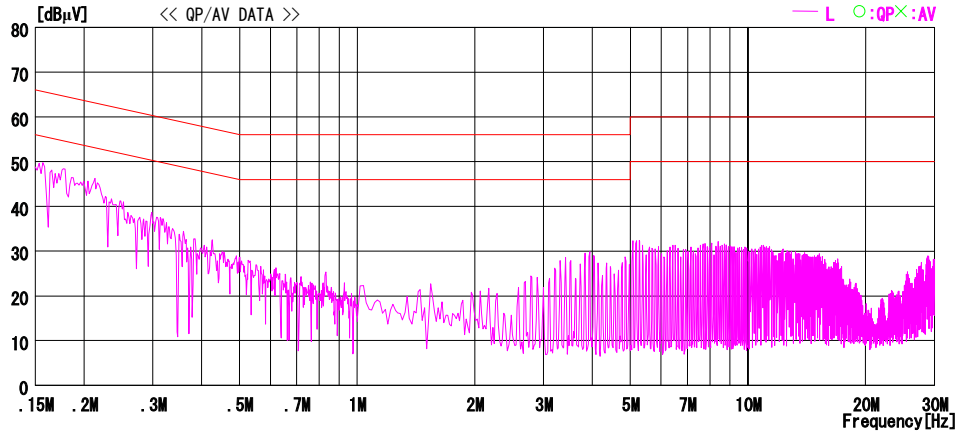
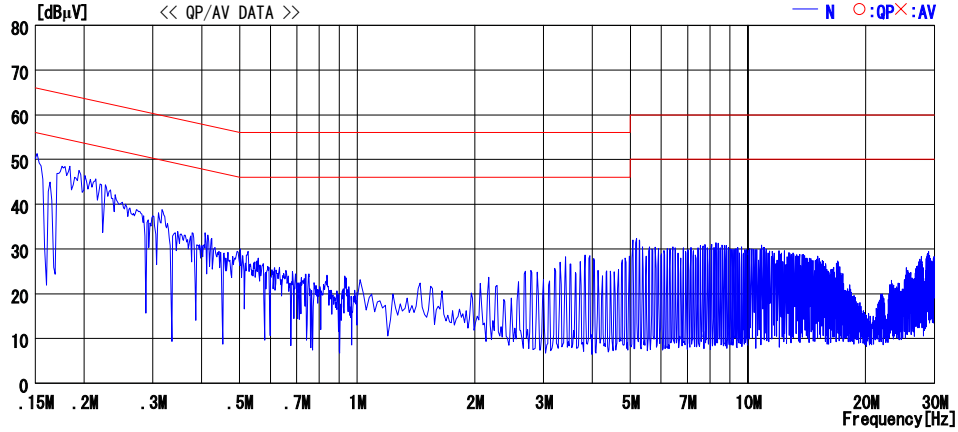


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

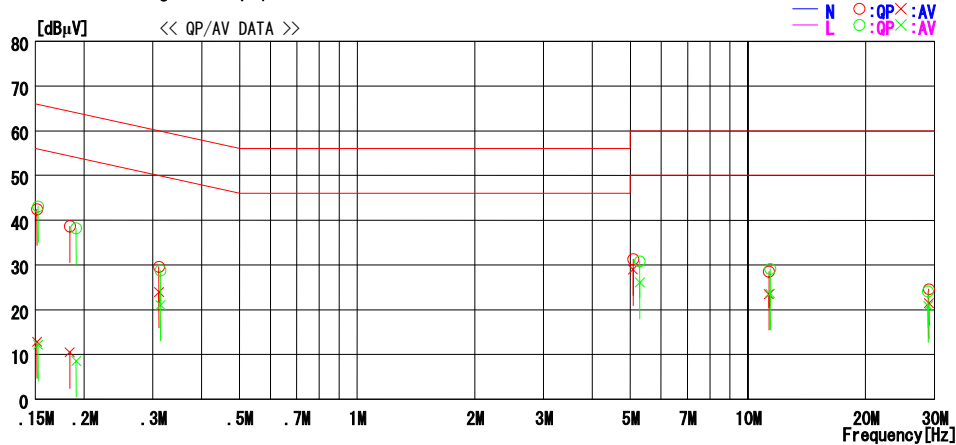
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/04/22 09:56:24

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V / 60Hz
Model No. : BL-WV10A Temp./Humi. : 22 deg. C / 33 %
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks: 11b 2437MHz 11Mbps

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C. F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBµV]	AV [dBµV]		QP [dBµV]	AV [dBµV]	QP [dBµV]	AV [dBµV]	QP [dB]	AV [dB]	
1	0.1516	42.3	12.6	0.2	42.5	12.8	65.9	55.9	23.4	43.1	N
2	0.1840	38.3	10.1	0.4	38.7	10.5	64.3	54.3	25.6	43.8	N
3	0.3111	29.3	23.7	0.3	29.6	24.0	59.9	49.9	30.3	25.9	N
4	5.0854	30.4	28.1	0.9	31.3	29.0	60.0	50.0	28.7	21.0	N
5	11.3103	26.9	21.9	1.6	28.5	23.5	60.0	50.0	31.5	26.5	N
6	29.0531	22.3	19.2	2.3	24.6	21.5	60.0	50.0	35.4	28.5	N
7	0.1525	42.9	12.0	0.2	43.1	12.2	65.9	55.9	22.8	43.7	L
8	0.1909	37.8	8.1	0.4	38.2	8.5	64.0	54.0	25.8	45.5	L
9	0.3139	28.5	20.8	0.3	28.8	21.1	59.9	49.9	31.1	28.8	L
10	5.2931	29.9	25.2	0.9	30.8	26.1	60.0	50.0	29.2	24.0	L
11	11.4157	27.5	22.0	1.6	29.1	23.6	60.0	50.0	30.9	26.4	L
12	28.9477	21.8	18.5	2.3	24.1	20.8	60.0	50.0	35.9	29.2	L

CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2005/04/22 10:10:59

Applicant	: Panasonic Communications Co., Ltd.	Report No.	: 25HE0249-HO
Kind of EUT	: Wireless Camera Monitoring System	Power	: AC120V / 60Hz
Model No.	: BL-WV10A	Temp./Humi.	: 22 deg. C / 33 %
Serial No.	: ES1	Operator	: Yutaka Yoshida

Mode / Remarks: 11b 2462MHz 11Mbps

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

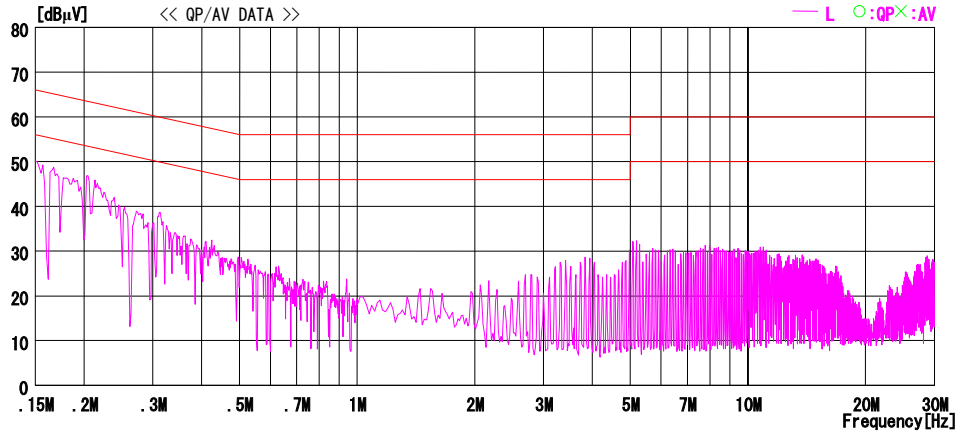
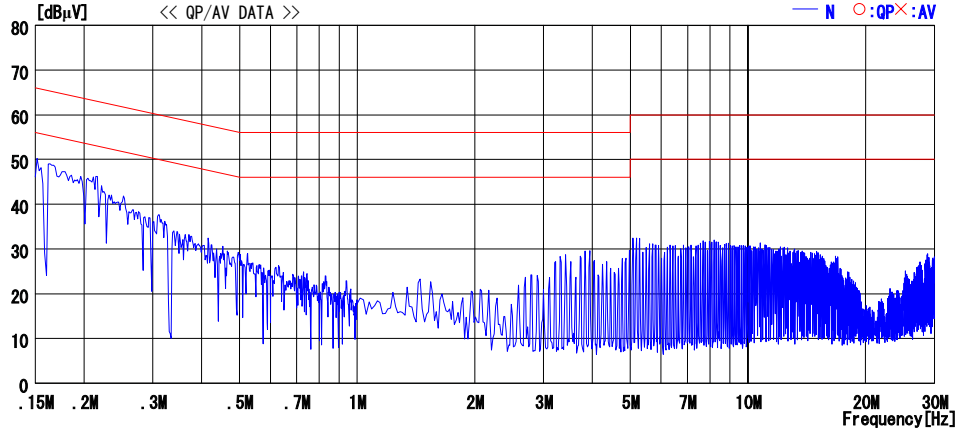


CHART:WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2005/04/22 10:18:48

Applicant	: Panasonic Communications Co., Ltd.	Report No.	: 25HE0249-HO
Kind of EUT	: Wireless Camera Monitoring System	Power	: AC120V / 60Hz
Model No.	: BL-WV10A	Temp./Humi.	: 22 deg. C / 33 %
Serial No.	: ES1	Operator	: Yutaka Yoshida

Mode / Remarks: 11g 2412MHz 36Mbps

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

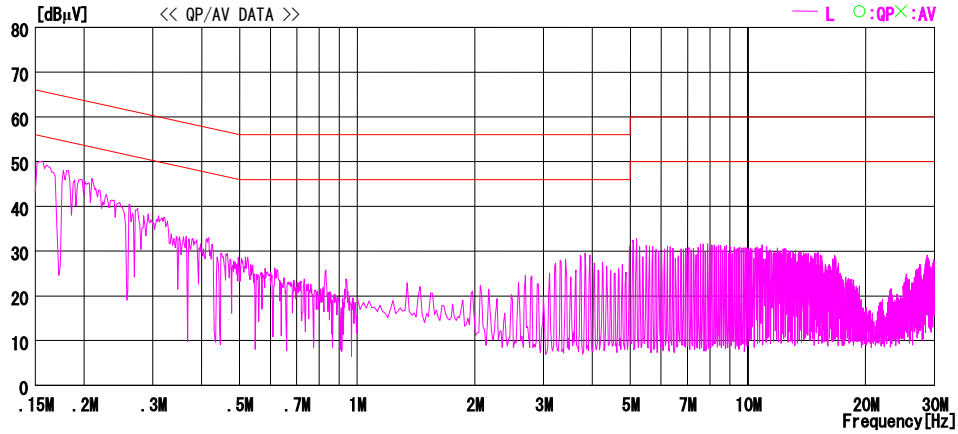
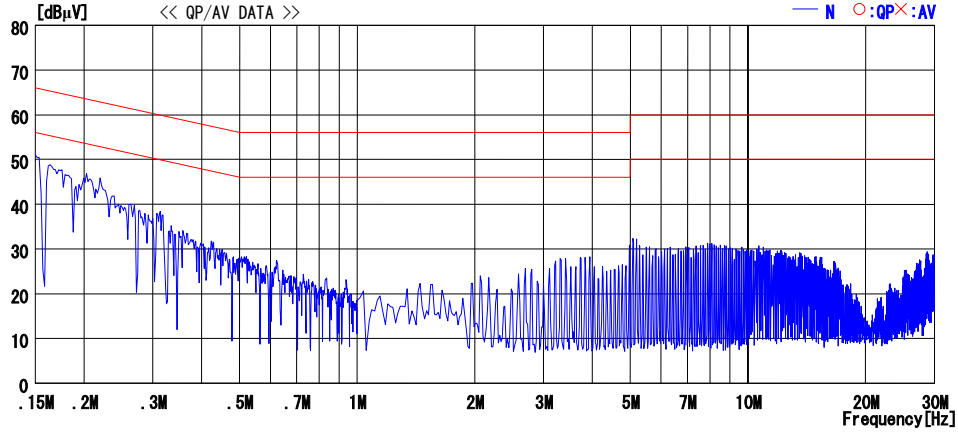


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2005/04/22 10:25:01

Applicant	: Panasonic Communications Co., Ltd.	Report No.	: 25HE0249-HO
Kind of EUT	: Wireless Camera Monitoring System	Power	: AC120V / 60Hz
Model No.	: BL-WV10A	Temp./Humi.	: 22 deg. C / 33 %
Serial No.	: ES1	Operator	: Yutaka Yoshida

Mode / Remarks: 11g 2437MHz 36Mbps

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

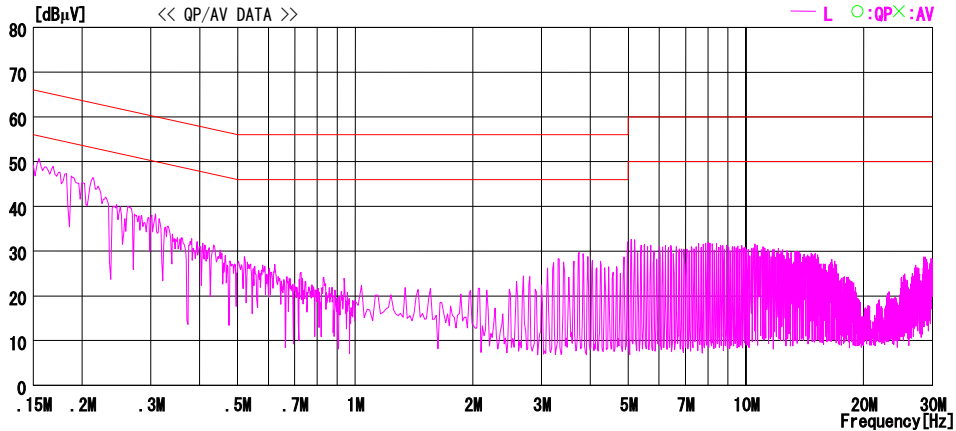
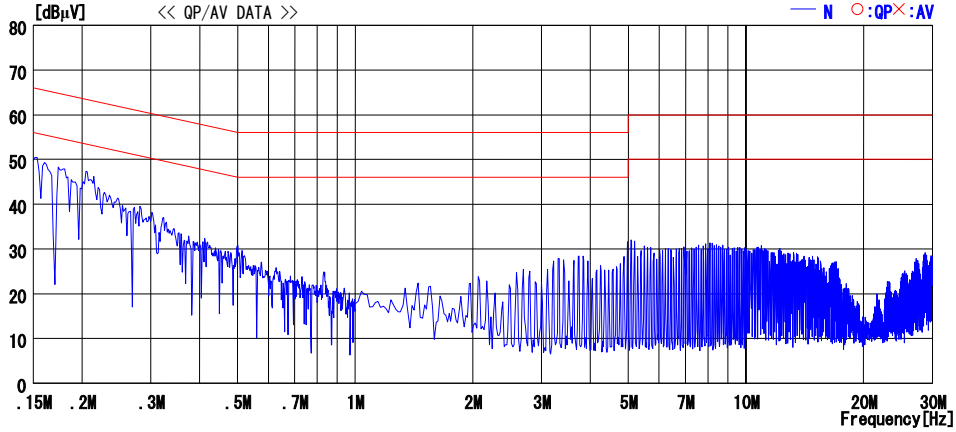


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

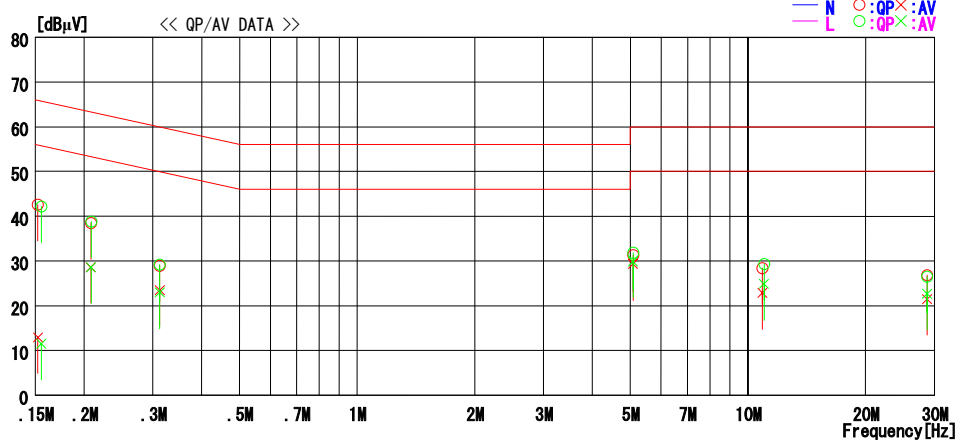
DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2005/04/22 10:25:01

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V / 60Hz
Model No. : BL-WV10A Temp./Humi. : 22 deg. C / 33 %
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks: 11g 2437MHz 36Mbps

LIMIT : FCC15C § 15.207 (QP)
FCC15C § 15.207 (AV)



NO	FREQ [MHz]	READING		C.F [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBµV]	AV [dBµV]		QP [dBµV]	AV [dBµV]	QP [dBµV]	AV [dBµV]	QP [dB]	AV [dB]	
1	0.1523	42.4	12.7	0.2	42.6	12.9	65.9	55.9	23.3	43.0	N
2	0.2081	38.0	28.1	0.5	38.5	28.6	63.3	53.3	24.8	24.7	N
3	0.3126	28.6	23.2	0.3	28.9	23.5	59.9	49.9	31.0	26.4	N
4	5.0862	30.4	28.4	0.9	31.3	29.3	60.0	50.0	28.7	20.7	N
5	10.8969	26.9	21.3	1.5	28.4	22.8	60.0	50.0	31.6	27.2	N
6	28.7470	24.5	19.2	2.3	26.8	21.5	60.0	50.0	33.2	28.5	N
7	0.1553	42.0	11.3	0.2	42.2	11.5	65.7	55.7	23.5	44.2	L
8	0.2086	38.3	28.1	0.5	38.8	28.6	63.3	53.3	24.5	24.7	L
9	0.3124	28.9	22.7	0.3	29.2	23.0	59.9	49.9	30.7	26.9	L
10	5.0866	31.0	29.0	0.9	31.9	29.9	60.0	50.0	28.2	20.1	L
11	11.0023	27.9	23.4	1.5	29.4	24.9	60.0	50.0	30.6	25.1	L
12	28.7482	24.2	20.4	2.3	26.5	22.7	60.0	50.0	33.5	27.3	L

CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS)
Except for the above table : adequate margin data below the limits.

AC Main Conducted Emission

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
 Date : 2005/04/22 10:33:30

Applicant	: Panasonic Communications Co., Ltd.	Report No.	: 25HE0249-HO
Kind of EUT	: Wireless Camera Monitoring System	Power	: AC120V / 60Hz
Model No.	: BL-WV10A	Temp./Humi.	: 22 deg. C / 33 %
Serial No.	: ES1	Operator	: Yutaka Yoshida

Mode / Remarks: 11g 2462MHz 36Mbps

LIMIT : FCC15C § 15.207 (QP)
 FCC15C § 15.207 (AV)

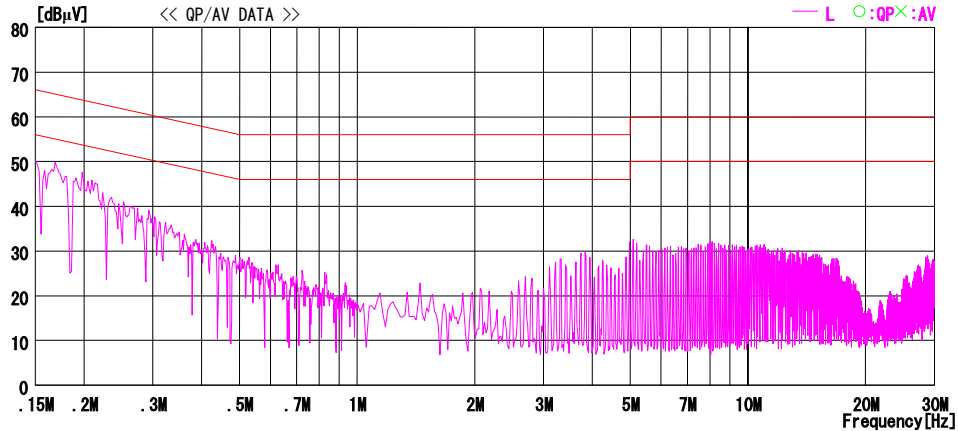
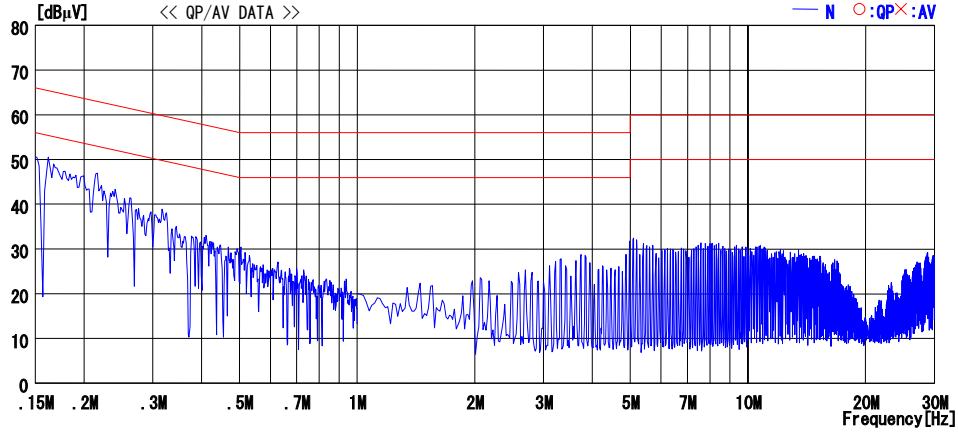


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCURATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS)
 Except for the above table : adequate margin data below the limits.

6dB Bandwidth (Antenna Terminal)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

Company	: Panasonic Communications Co., Ltd.	REPORT NO	: 25HE0249-HO
Equipment	: Wireless Camera Monitoring System	REGULATION	: Fcc Part15 Subpart C 15.247(a)(2)
Model	: BL-WV10A	TEST DISTANCE	: -
Sample No.	: ES1	DATE	: 04/22/2005
Power	: AC120V/60Hz (AC Adaptor)	TEMPERATURE	: 22 °C
Mode	: Tx / IEEE802.11b, 11g(ch1,6,11)	HUMIDITY	: 33%
		ENGINEER	: Yutaka Yoshida

[IEEE802.11b]

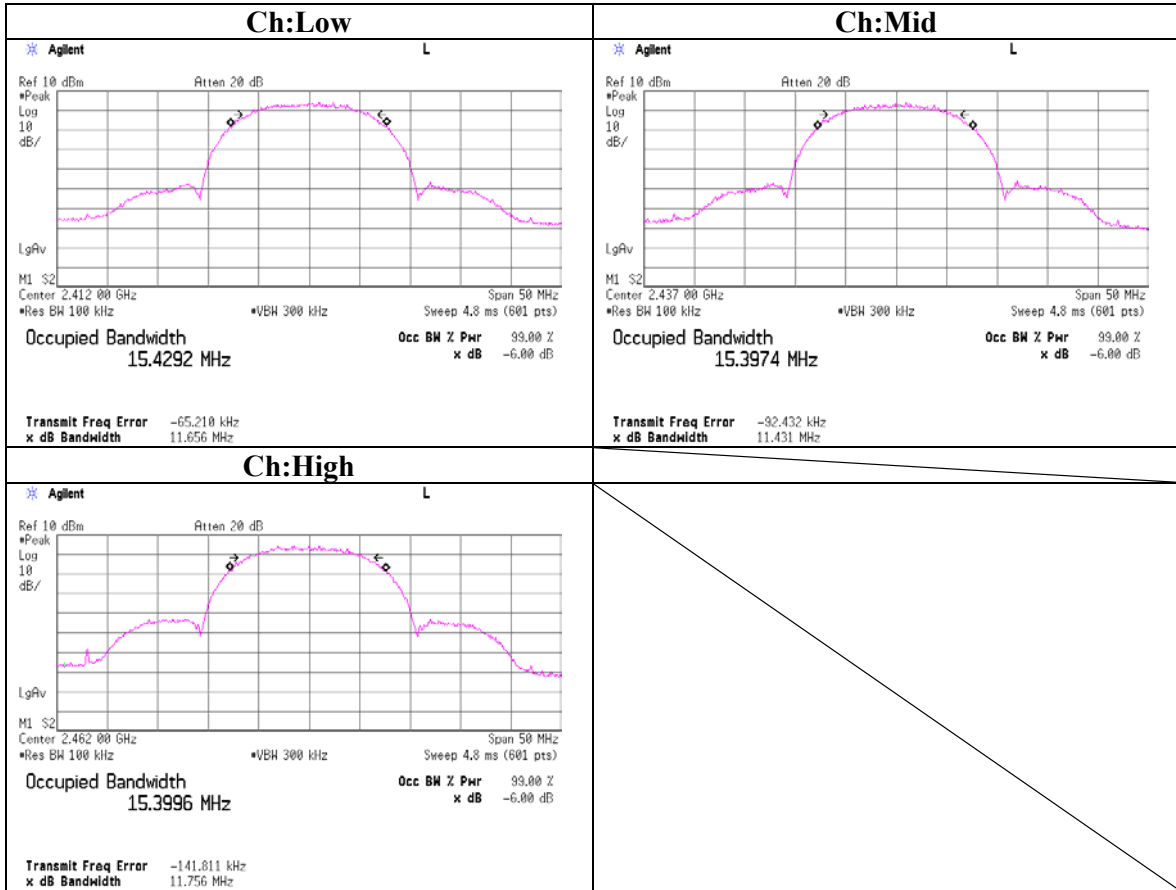
Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	11.656	500.0
Mid	2437.0	11.431	500.0
High	2462.0	11.756	500.0

[IEEE802.11g]

Ch	Freq. [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
Low	2412.0	16.632	500.0
Mid	2437.0	16.608	500.0
High	2462.0	16.590	500.0

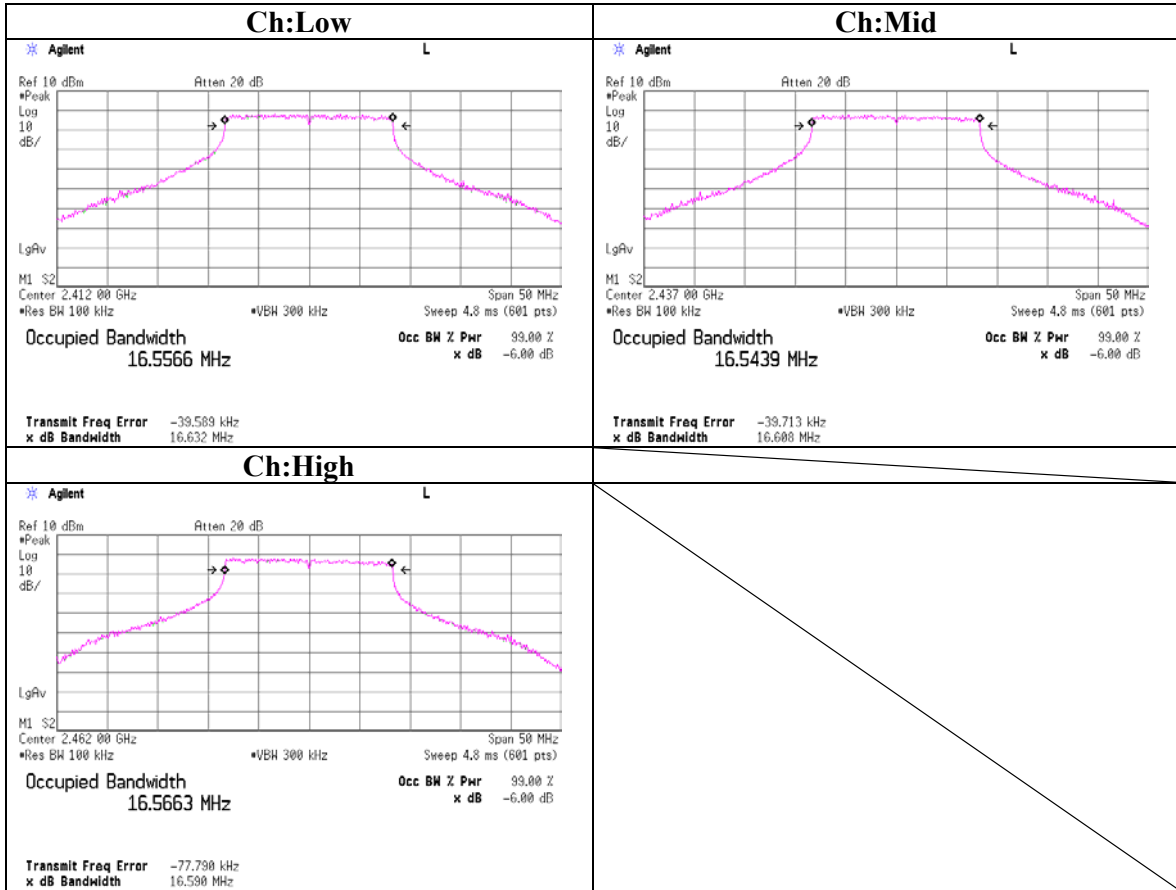
6dB Bandwidth (Antenna Terminal)

IEEE802.11b



6dB Bandwidth (Antenna Terminal)

IEEE802.11g



Maximum Peak OutPut Power (Antenna Terminal)

UL Apex Co., Ltd.
Head Office EMC Lab. No.3 Measurement Room

Company	: Panasonic Communications Co., Ltd.	REPORT NO	: 25HE0249-HO
Equipment	: Wireless Camera Monitoring System	REGULATION	: Fcc Part15 Subpart C 15.247(b)(3)
Model	: BL-WV10A	TEST DISTANCE	: -
Sample No.	: ES1	DATE	: 04/22/2005
Power	: AC120V/60Hz (AC Adaptor)	TEMPERATURE	: 22°C
Mode	: Tx / IEEE802.11b, 11g(ch1,6,11)	HUMIDITY	: 33%
		ENGINEER	: Yutaka Yoshida

[IEEE802.11b]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit (1W) [dBm]	Margin [dB]
Low	2412.0	9.23	0.80	10.00	20.03	30.00	9.97
Mid	2437.0	9.04	0.80	10.00	19.84	30.00	10.16
High	2462.0	9.62	0.80	10.00	20.42	30.00	9.58

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

[IEEE802.11g]

Ch	Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit (1W) [dBm]	Margin [dB]
Low	2412.0	8.49	0.80	10.00	19.29	30.00	10.71
Mid	2437.0	8.71	0.80	10.00	19.51	30.00	10.49
High	2462.0	9.17	0.80	10.00	19.97	30.00	10.03

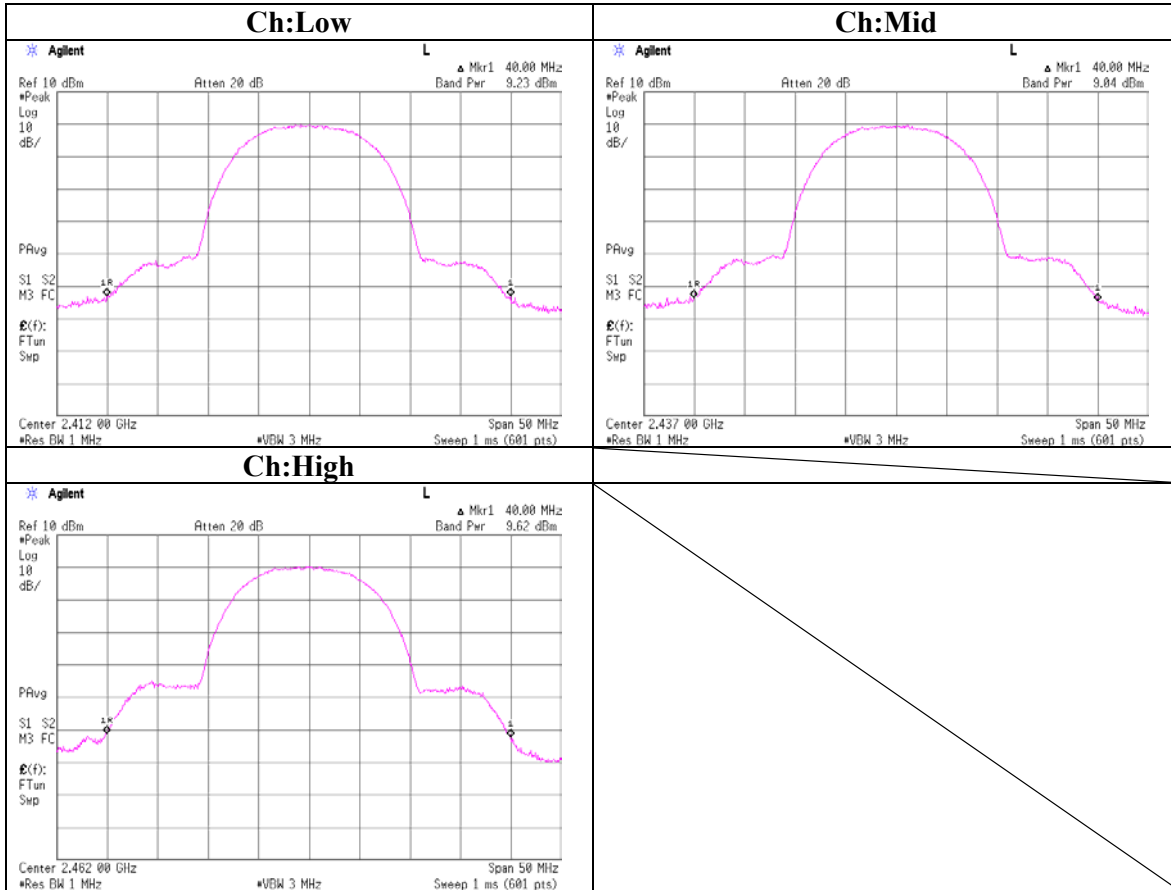
Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Attenuator

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

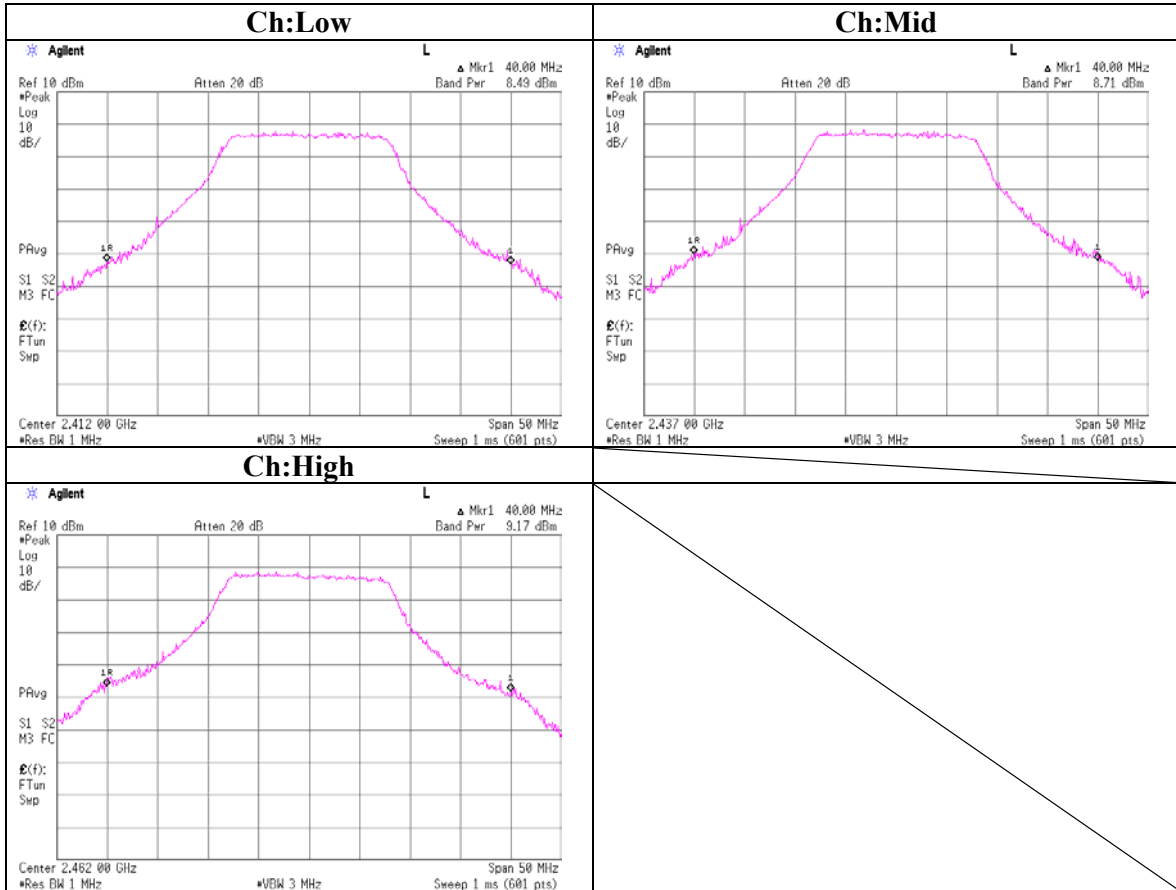
Maximum Peak OutPut Power (Antenna Terminal)

IEEE802.11b



Maximum Peak OutPut Power (Antenna Terminal)

IEEE802.11g



Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

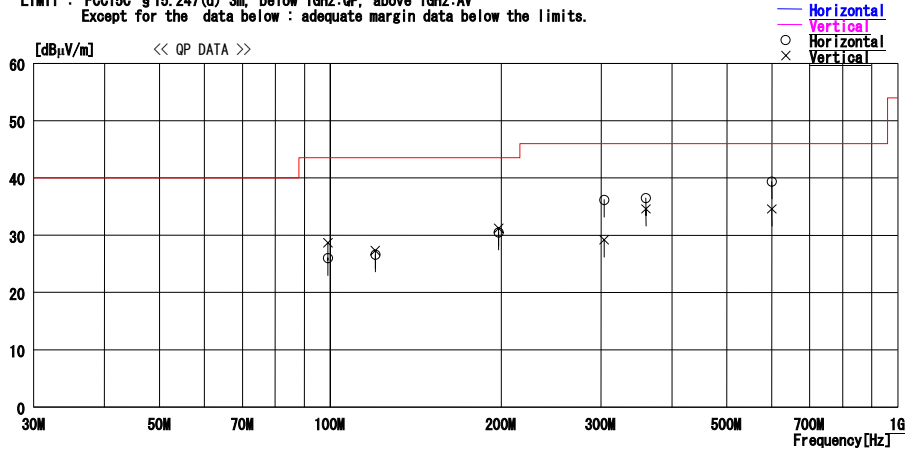
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V/60Hz (AC Adaptor)
Model No. : BL-WV10A Temp°C/Humi% : 25deg. C / 48%
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks : Tx 11b 2412MHz 11Mbps / Left 90deg(Hor), 0deg(Ver)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
— Horizontal —										
1	99.000	35.9	10.0	8.0	27.9	26.0	43.5	17.5	180	359
2	120.000	32.6	13.0	8.4	27.4	26.6	43.5	16.9	158	0
3	198.001	31.6	17.1	9.0	27.2	30.5	43.5	13.0	168	305
4	303.745	38.8	14.7	9.9	27.2	36.2	46.0	9.8	100	360
5	359.998	36.9	16.6	10.5	27.5	36.5	46.0	9.5	100	0
6	599.997	36.5	19.9	11.8	28.8	39.4	46.0	6.6	155	292
— Vertical —										
7	99.000	38.6	10.0	8.0	27.9	28.7	43.5	14.8	100	359
8	120.000	33.3	13.0	8.4	27.4	27.3	43.5	16.2	100	238
9	198.000	32.3	17.1	9.0	27.2	31.2	43.5	12.3	100	0
10	303.745	31.8	14.7	9.9	27.2	29.2	46.0	16.8	100	54
11	359.998	35.0	16.6	10.5	27.5	34.6	46.0	11.4	172	320
12	599.997	31.7	19.9	11.8	28.8	34.6	46.0	11.4	176	41

CHART:WITHOUT FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz Dipole, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (GABLE+ATTEN.) - AMP. GAIN Page:

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

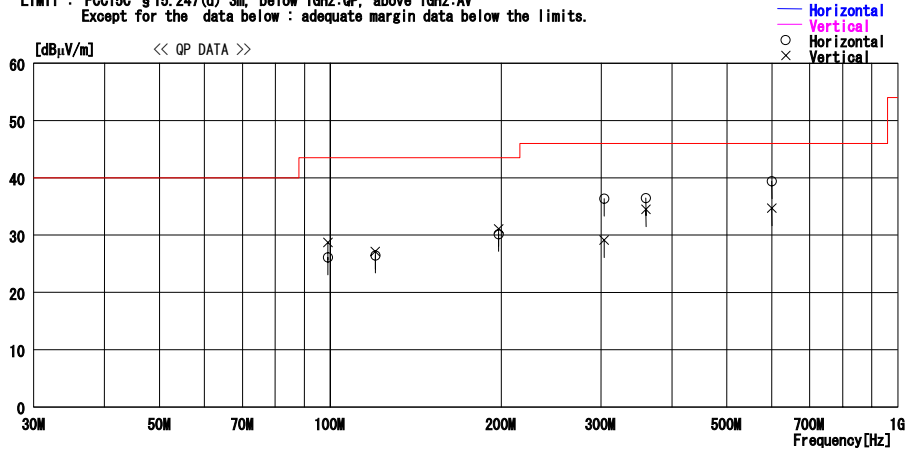
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V/60Hz (AC Adaptor)
Model No. : BL-WV10A Temp°C/Humi% : 25deg. C / 48%
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks : Tx 11b 2437MHz 11Mbps / Left 90deg(Hor), 0deg(Ver)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
— Horizontal —										
1	99.001	36.0	10.0	8.0	27.9	26.1	43.5	17.4	309	0
2	120.000	32.5	13.0	8.4	27.4	26.5	43.5	17.0	164	359
3	198.001	31.3	17.1	9.0	27.2	30.2	43.5	13.3	147	298
4	303.745	39.0	14.7	9.9	27.2	36.4	46.0	9.6	100	359
5	359.998	36.9	16.6	10.5	27.5	36.5	46.0	9.5	100	0
6	599.996	36.5	19.9	11.8	28.8	39.4	46.0	6.6	158	292
— Vertical —										
7	99.000	38.6	10.0	8.0	27.9	28.7	43.5	14.8	100	359
8	120.000	33.1	13.0	8.4	27.4	27.1	43.5	16.4	100	0
9	198.000	32.2	17.1	9.0	27.2	31.1	43.5	12.4	100	347
10	303.745	31.7	14.7	9.9	27.2	29.1	46.0	16.9	100	54
11	359.998	34.9	16.6	10.5	27.5	34.5	46.0	11.5	177	318
12	599.997	31.8	19.9	11.8	28.8	34.7	46.0	11.3	182	65

CHART: WITH FACTOR ANT TYPE : ~30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz Dipole, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (GABLE+ATTEN.) - AMP. GAIN Page:

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

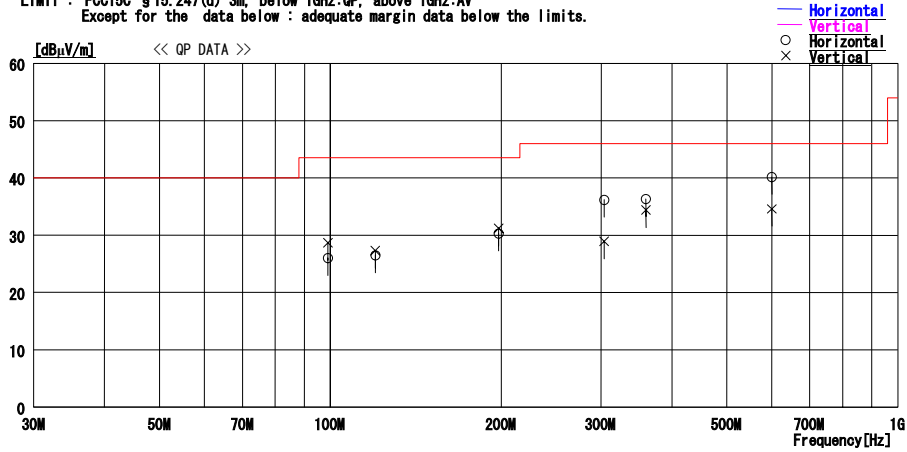
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
 Kind of EUT : Wireless Camera Monitoring System Power : AC120V/60Hz (AC Adaptor)
 Model No. : BL-WV10A Temp°C/Humi% : 25deg. C / 48%
 Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks : Tx 11b 2462MHz 11Mbps / Left 90deg(Hor), 0deg(Ver)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
 Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
Horizontal										
1	99.000	35.9	10.0	8.0	27.9	26.0	43.5	17.5	188	359
2	120.000	32.5	13.0	8.4	27.4	26.5	43.5	17.0	161	0
3	198.000	31.4	17.1	9.0	27.2	30.3	43.5	13.2	155	330
4	303.745	38.8	14.7	9.9	27.2	36.2	46.0	9.8	100	0
5	359.999	36.7	16.6	10.5	27.5	36.3	46.0	9.7	100	359
6	599.997	37.3	19.9	11.8	28.8	40.2	46.0	5.8	157	312
Vertical										
7	99.000	38.6	10.0	8.0	27.9	28.7	43.5	14.8	100	359
8	120.000	33.3	13.0	8.4	27.4	27.3	43.5	16.2	100	232
9	198.000	32.3	17.1	9.0	27.2	31.2	43.5	12.3	100	0
10	303.745	31.5	14.7	9.9	27.2	28.9	46.0	17.1	212	80
11	359.998	34.8	16.6	10.5	27.5	34.4	46.0	11.6	176	315
12	599.997	31.7	19.9	11.8	28.8	34.6	46.0	11.4	183	50

CHART: WITH FACTOR ANT TYPE : ~30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz Dipole, 1000MHz- HORN
 CALCULATION : READING + ANT FACTOR + LOSS (GABLE+ATTEN.) - AMP. GAIN Page:

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

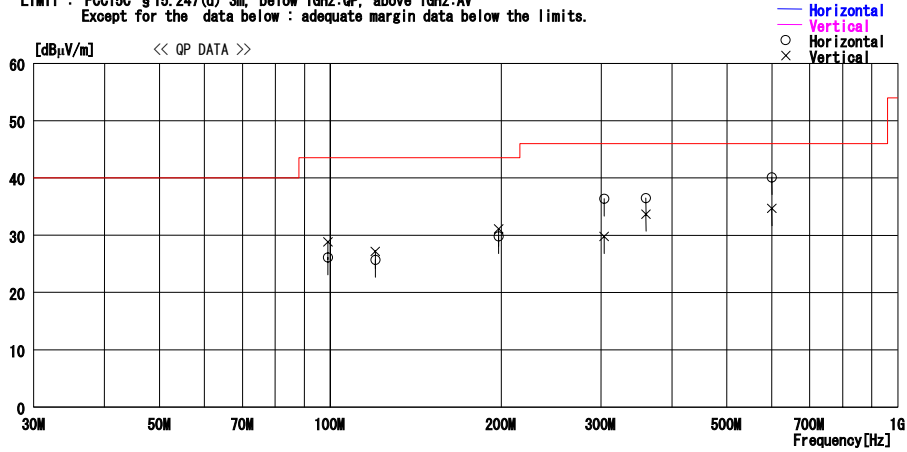
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V/60Hz (AC Adaptor)
Model No. : BL-WV10A Temp/C/Humi% : 25deg. C / 48%
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks : Tx 11g 2412MHz 36Mbps / Left 90deg(Hor), 0deg(Ver)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
— Horizontal —										
1	99.001	36.0	10.0	8.0	27.9	26.1	43.5	17.4	318	0
2	120.000	31.7	13.0	8.4	27.4	25.7	43.5	17.8	242	359
3	198.000	30.9	17.1	9.0	27.2	29.8	43.5	13.7	182	0
4	303.746	39.0	14.7	9.9	27.2	36.4	46.0	9.6	106	0
5	359.999	36.9	16.6	10.5	27.5	36.5	46.0	9.5	100	360
6	599.996	37.2	19.9	11.8	28.8	40.1	46.0	5.9	151	305
— Vertical —										
7	99.000	38.7	10.0	8.0	27.9	28.8	43.5	14.7	100	360
8	120.000	33.2	13.0	8.4	27.4	27.2	43.5	16.3	100	251
9	198.001	32.2	17.1	9.0	27.2	31.1	43.5	12.4	100	0
10	303.746	32.4	14.7	9.9	27.2	29.8	46.0	16.2	128	72
11	359.999	34.1	16.6	10.5	27.5	33.7	46.0	12.3	174	0
12	599.996	31.8	19.9	11.8	28.8	34.7	46.0	11.3	170	48

CHART: WITH FACTOR ANT TYPE : ~30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz Dipole, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (GABLE+ATTEN.) - AMP. GAIN Page:

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

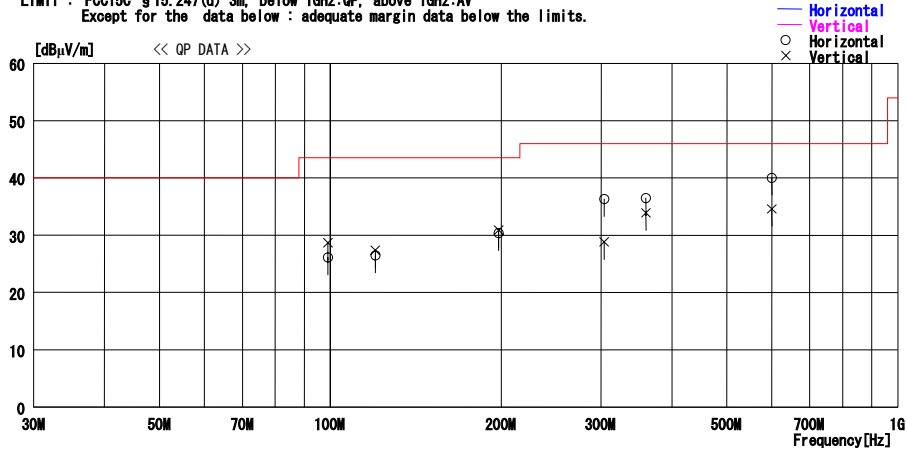
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V/60Hz (AC Adaptor)
Model No. : BL-WV10A Temp°C/Humi% : 25deg. C / 48%
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks : Tx 11g 2437MHz 36Mbps / Left 90deg(Hor), 0deg(Ver)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
— Horizontal —										
1	99.001	36.0	10.0	8.0	27.9	26.1	43.5	17.4	310	360
2	120.000	32.5	13.0	8.4	27.4	26.5	43.5	17.0	148	0
3	198.000	31.5	17.1	9.0	27.2	30.4	43.5	13.1	173	306
4	303.745	38.9	14.7	9.9	27.2	36.3	46.0	9.7	113	360
5	359.998	36.9	16.6	10.5	27.5	36.5	46.0	9.5	100	0
6	599.997	37.1	19.9	11.8	28.8	40.0	46.0	6.0	155	312
— Vertical —										
7	99.000	38.6	10.0	8.0	27.9	28.7	43.5	14.8	100	360
8	120.001	33.4	13.0	8.4	27.4	27.4	43.5	16.1	100	244
9	198.001	32.0	17.1	9.0	27.2	30.9	43.5	12.6	100	353
10	303.745	31.4	14.7	9.9	27.2	28.8	46.0	17.2	121	68
11	359.998	34.3	16.6	10.5	27.5	33.9	46.0	12.1	170	360
12	599.996	31.7	19.9	11.8	28.8	34.6	46.0	11.4	174	44

CHART: WITH FACTOR ANT TYPE : ~30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz Dipole, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (GABLE+ATTEN.) - AMP. GAIN Page:

Radiated Spurious Emission

* The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

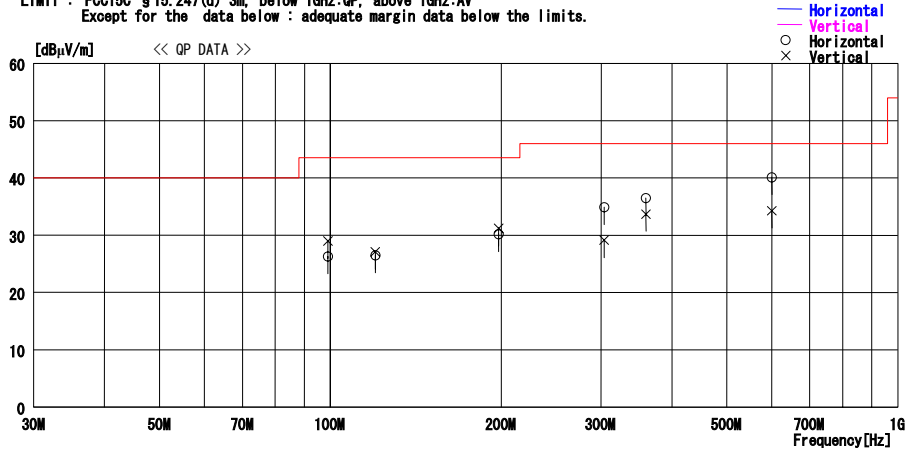
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber

Applicant : Panasonic Communications Co., Ltd. Report No. : 25HE0249-HO
Kind of EUT : Wireless Camera Monitoring System Power : AC120V/60Hz (AC Adaptor)
Model No. : BL-WV10A Temp/C/Humi% : 25deg. C / 48%
Serial No. : ES1 Operator : Yutaka Yoshida

Mode / Remarks : Tx 11g 2462MHz 36Mbps / Left 90deg(Hor), 0deg(Ver)

LIMIT : FCC15C §15.247(d) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



No.	FREQ [MHz]	READING QP [dBµV]	ANT FACTOR [dB/m]	LOSS [dB]	GAIN [dB]	RESULT [dBµV/m]	LIMIT [dBµV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
— Horizontal —										
1	99.001	36.2	10.0	8.0	27.9	26.3	43.5	17.2	318	359
2	120.000	32.5	13.0	8.4	27.4	26.5	43.5	17.0	153	0
3	198.001	31.3	17.1	9.0	27.2	30.2	43.5	13.3	157	283
4	303.745	37.5	14.7	9.9	27.2	34.9	46.0	11.1	100	185
5	359.998	36.9	16.6	10.5	27.5	36.5	46.0	9.5	100	0
6	599.996	37.2	19.9	11.8	28.8	40.1	46.0	5.9	150	304
— Vertical —										
7	99.000	38.9	10.0	8.0	27.9	29.0	43.5	14.5	100	359
8	120.000	33.1	13.0	8.4	27.4	27.1	43.5	16.4	100	0
9	198.001	32.3	17.1	9.0	27.2	31.2	43.5	12.3	100	360
10	303.745	31.7	14.7	9.9	27.2	29.1	46.0	16.9	100	57
11	359.998	34.1	16.6	10.5	27.5	33.7	46.0	12.3	174	360
12	599.997	31.4	19.9	11.8	28.8	34.3	46.0	11.7	185	79

CHART: WITH FACTOR ANT TYPE : ~30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz Dipole, 1000MHz- HORN
CALCULATION : READING + ANT FACTOR + LOSS (GABLE+ATTEN.) - AMP. GAIN Page:

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : Panasonic Communications Co., Ltd.	REPORT NO : 25HE0249-HO
Equipment : Wireless Camera Monitoring System	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BL-WV10A	TEST DISTANCE : 3/1m
Sample No. : ES1	DATE : 04/21/2005
Power : AC 120 V / 60 Hz	TEMPERATURE : 25deg.C
Mode : 11b 11Mbps 2412MHz	HUMIDITY : 48%
Remarks : Tx Antenna Left 90 deg.(Hor) / 0 deg.(Ver)	ENGINEER : Yutaka Yoshida

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	55.0	57.3	31.0	36.4	15.5	0.0	65.1	67.4	74.0	8.9	6.6
2	2688.0	46.4	45.5	31.4	36.5	15.8	0.0	57.1	56.2	74.0	16.9	17.8
3	4824.0	43.2	43.0	35.0	36.0	8.0	1.0	51.2	51.0	74.0	22.8	23.0
4	7236.0	44.1	43.4	37.6	36.0	10.0	0.4	56.1	55.4	74.0	17.9	18.6
5	9648.0	44.1	44.0	36.3	36.4	11.8	0.2	56.0	55.9	74.0	18.0	18.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	43.9	45.0	41.4	36.1	13.7	0.2	53.6	54.7	74.0	20.4	19.3
7	14472.0	44.4	43.4	41.8	34.6	15.6	0.1	57.8	56.8	74.0	16.2	17.2
8	16884.0	42.9	42.9	44.6	35.0	17.1	1.1	61.2	61.2	74.0	12.8	12.8
9	19296.0	42.4	42.1	41.6	34.1	18.8	0.0	59.2	58.9	74.0	14.8	15.1
10	21708.0	44.3	44.2	40.4	34.7	19.2	0.0	59.7	59.6	74.0	14.3	14.4
11	24120.0	43.8	43.8	41.0	35.6	21.5	0.0	61.2	61.2	74.0	12.8	12.8

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	36.1	36.2	31.0	36.4	15.5	0.0	46.2	46.3	54.0	7.8	7.7
2	2688.0	37.1	35.1	31.4	36.5	15.8	0.0	47.8	45.8	54.0	6.2	8.2
3	4824.0	30.0	30.1	35.0	36.0	8.0	1.0	38.0	38.1	54.0	16.0	15.9
4	7236.0	30.6	31.0	37.6	36.0	10.0	0.4	42.6	43.0	54.0	11.4	11.0
5	9648.0	31.1	31.1	36.3	36.4	11.8	0.2	43.0	43.0	54.0	11.0	11.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	30.6	30.8	41.4	36.1	13.7	0.2	40.3	40.5	54.0	13.7	13.5
7	14472.0	30.3	30.3	41.8	34.6	15.6	0.1	43.7	43.7	54.0	10.3	10.3
8	16884.0	29.8	29.9	44.6	35.0	17.1	1.1	48.1	48.2	54.0	5.9	5.8
9	19296.0	29.2	29.1	41.6	34.1	18.8	0.0	46.0	45.9	54.0	8.0	8.1
10	21708.0	30.9	30.9	40.4	34.7	19.2	0.0	46.3	46.3	54.0	7.7	7.7
11	24120.0	30.9	30.9	41.0	35.6	21.5	0.0	48.3	48.3	54.0	5.7	5.7

* Reference data

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	93.0	91.2	30.9	36.4	15.5	0.0	103.0	101.2	-	-	-
2	2400.0	59.8	61.0	30.9	36.4	15.5	0.0	69.8	71.0	Funda-20dB	13.2	10.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

DATA OF SPURIOUS EMISSIONS(1GHz to 25GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : Panasonic Communications Co., Ltd.	REPORT NO : 25HE0249-HO
Equipment : Wireless Camera Monitoring System	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BL-WV10A	TEST DISTANCE : 3/1m
Sample No. : ES1	DATE : 04/21/2005
Power : AC 120 V / 60 Hz	TEMPERATURE : 25deg.C
Mode : 11b 11Mbps 2437MHz	HUMIDITY : 48%
Remarks : Tx Antenna Left 90 deg.(Hor) / 0 deg. (Ver)	ENGINEER : Yutaka Yoshida

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2688.0	46.0	45.5	31.4	36.5	15.8	0.0	56.7	56.2	74.0	17.3	17.8
2	4874.0	43.4	43.5	35.3	36.0	8.0	1.0	51.7	51.8	74.0	22.3	22.2
3	7311.0	44.7	44.5	37.7	36.0	10.0	0.5	56.9	56.7	74.0	17.1	17.3
4	9748.0	43.9	45.0	36.3	36.4	11.9	0.2	55.9	57.0	74.0	18.1	17.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	43.8	43.4	41.5	36.0	13.8	0.3	53.9	53.5	74.0	20.1	20.5
6	14622.0	43.6	44.4	42.1	35.1	15.7	0.2	57.0	57.8	74.0	17.0	16.2
7	17059.0	43.7	43.5	44.6	34.9	17.1	1.1	62.1	61.9	74.0	11.9	12.1
8	19496.0	43.8	43.1	41.4	34.3	18.9	0.0	60.3	59.6	74.0	13.7	14.4
9	21933.0	46.4	46.9	40.5	34.2	19.2	0.0	62.4	62.9	74.0	11.6	11.1
10	24370.0	44.0	43.3	40.8	35.7	21.6	0.0	61.2	60.5	74.0	12.8	13.5

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2688.0	36.1	34.5	31.4	36.5	15.8	0.0	46.8	45.2	54.0	7.2	8.8
2	4874.0	30.1	30.1	35.3	36.0	8.0	1.0	38.4	38.4	54.0	15.6	15.6
3	7311.0	31.1	31.1	37.7	36.0	10.0	0.5	43.3	43.3	54.0	10.7	10.7
4	9748.0	30.7	30.7	36.3	36.4	11.9	0.2	42.7	42.7	54.0	11.3	11.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	30.8	30.8	41.5	36.0	13.8	0.3	40.9	40.9	54.0	13.1	13.1
6	14622.0	30.5	30.7	42.1	35.1	15.7	0.2	43.9	44.1	54.0	10.1	9.9
7	17059.0	29.6	29.6	44.6	34.9	17.1	1.1	48.0	48.0	54.0	6.0	6.0
8	19496.0	30.8	29.2	41.4	34.3	18.9	0.0	47.3	45.7	54.0	6.7	8.3
9	21933.0	33.0	33.0	40.5	34.2	19.2	0.0	49.0	49.0	54.0	5.0	5.0
10	24370.0	30.4	30.4	40.8	35.7	21.6	0.0	47.6	47.6	54.0	6.4	6.4

* Reference data

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

DATA OF SPURIOUS EMISSIONS(1GHz to 26GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : Panasonic Communications Co., Ltd.	REPORT NO : 25HE0249-HO
Equipment : Wireless Camera Monitoring System	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BL-WV10A	TEST DISTANCE : 3/1m
Sample No. : ES1	DATE : 04/21/2005
Power : AC 120 V / 60 Hz	TEMPERATURE : 25deg.C
Mode : 11b 11Mbps 2462MHz	HUMIDITY : 48%
Remarks : Tx Antenna Left 90 deg.(Hor) / 0 deg.(Ver)	ENGINEER : Yutaka Yoshida

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	46.7	47.9	30.8	36.4	15.5	0.0	56.6	57.8	74.0	17.4	16.2
2	2688.0	47.3	46.9	31.4	36.5	15.8	0.0	58.0	57.6	74.0	16.0	16.4
3	4924.0	43.8	46.8	35.6	35.9	8.1	1.0	52.6	55.6	74.0	21.4	18.4
4	7386.0	43.8	43.8	37.8	36.0	10.1	0.6	56.3	56.3	74.0	17.7	17.7
5	9848.0	44.1	43.1	36.2	36.4	12.0	0.3	56.2	55.2	74.0	17.8	18.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12310.0	44.3	44.3	41.5	35.9	13.9	0.4	54.7	54.7	74.0	19.3	19.3
7	14772.0	43.3	43.1	42.4	35.6	15.8	0.4	56.8	56.6	74.0	17.2	17.4
8	17234.0	42.6	42.8	44.5	35.0	17.2	1.0	60.8	61.0	74.0	13.2	13.0
9	19696.0	42.9	42.7	41.2	34.6	19.1	0.0	59.1	58.9	74.0	14.9	15.1
10	22158.0	44.2	44.3	40.5	34.1	19.5	0.0	60.6	60.7	74.0	13.4	13.3
11	24620.0	44.9	44.5	41.1	35.5	21.5	0.0	62.5	62.1	74.0	11.5	11.9

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	33.3	34.5	30.8	36.4	15.5	0.0	43.2	44.4	54.0	10.8	9.6
2	2688.0	39.9	37.5	31.4	36.5	15.8	0.0	50.6	48.2	54.0	3.4	5.8
3	4924.0	31.0	33.8	35.6	35.9	8.1	1.0	39.8	42.6	54.0	14.2	11.4
4	7386.0	30.9	31.0	37.8	36.0	10.1	0.6	43.4	43.5	54.0	10.6	10.5
5	9848.0	30.4	30.3	36.2	36.4	12.0	0.3	42.5	42.4	54.0	11.5	11.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12310.0	30.9	30.8	41.5	35.9	13.9	0.4	41.3	41.2	54.0	12.7	12.8
7	14772.0	30.0	29.9	42.4	35.6	15.8	0.4	43.5	43.4	54.0	10.5	10.6
8	17234.0	29.5	29.5	44.5	35.0	17.2	1.0	47.7	47.7	54.0	6.3	6.3
9	19696.0	29.6	29.6	41.2	34.6	19.1	0.0	45.8	45.8	54.0	8.2	8.2
10	22158.0	30.9	30.9	40.5	34.1	19.5	0.0	47.3	47.3	54.0	6.7	6.7
11	24620.0	31.3	31.3	41.1	35.5	21.5	0.0	48.9	48.9	54.0	5.1	5.1

* Reference data

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Filter was not used for factor 0.0dB of the above table.

DATA OF SPURIOUS EMISSIONS(1GHz to 26GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : Panasonic Communications Co., Ltd.	REPORT NO : 25HE0249-HO
Equipment : Wireless Camera Monitoring System	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BL-WV10A	TEST DISTANCE : 3/1m
Sample No. : ES1	DATE : 04/21/2005
Power : AC 120 V / 60 Hz	TEMPERATURE : 25deg.C
Mode : 11g 36Mbps 2412MHz	HUMIDITY : 48%
Remarks : Tx Antenna Left 90 deg.(Hor) / 0 deg.(Ver)	ENGINEER : Yutaka Yoshida

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	57.8	58.8	31.0	36.4	15.5	0.0	67.9	68.9	74.0	6.1	5.1
2	2688.0	46.5	45.7	31.4	36.5	15.8	0.0	57.2	56.4	74.0	16.8	17.6
3	4824.0	43.5	43.2	35.0	36.0	8.0	1.0	51.5	51.2	74.0	22.5	22.8
4	7236.0	44.1	43.6	37.6	36.0	10.0	0.4	56.1	55.6	74.0	17.9	18.4
5	9648.0	44.2	44.1	36.3	36.4	11.8	0.2	56.1	56.0	74.0	17.9	18.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	44.0	43.8	41.4	36.1	13.7	0.2	53.7	53.5	74.0	20.3	20.5
7	14472.0	43.1	43.4	41.8	34.6	15.6	0.1	56.5	56.8	74.0	17.5	17.2
8	16884.0	42.6	43.2	44.6	35.0	17.1	1.1	60.9	61.5	74.0	13.1	12.5
9	19296.0	44.0	43.0	41.6	34.1	18.8	0.0	60.8	59.8	74.0	13.2	14.2
10	21708.0	44.1	44.6	40.4	34.7	19.2	0.0	59.5	60.0	74.0	14.5	14.0
11	24120.0	44.7	44.7	41.0	35.6	21.5	0.0	62.1	62.1	74.0	11.9	11.9

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	37.6	39.0	31.0	36.4	15.5	0.0	47.7	49.1	54.0	6.3	4.9
2	2688.0	37.1	35.3	31.4	36.5	15.8	0.0	47.8	46.0	54.0	6.2	8.0
3	4824.0	30.4	30.5	35.0	36.0	8.0	1.0	38.4	38.5	54.0	15.6	15.5
4	7236.0	30.7	30.9	37.6	36.0	10.0	0.4	42.7	42.9	54.0	11.3	11.1
5	9648.0	31.1	31.0	36.3	36.4	11.8	0.2	43.0	42.9	54.0	11.0	11.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	30.7	30.6	41.4	36.1	13.7	0.2	40.4	40.3	54.0	13.6	13.7
7	14472.0	30.3	30.3	41.8	34.6	15.6	0.1	43.7	43.7	54.0	10.3	10.3
8	16884.0	29.9	29.9	44.6	35.0	17.1	1.1	48.2	48.2	54.0	5.8	5.8
9	19296.0	31.5	29.1	41.6	34.1	18.8	0.0	48.3	45.9	54.0	5.7	8.1
10	21708.0	31.2	30.9	40.4	34.7	19.2	0.0	46.6	46.3	54.0	7.4	7.7
11	24120.0	30.8	30.8	41.0	35.6	21.5	0.0	48.2	48.2	54.0	5.8	5.8

* Reference data

20dBc(Fundamental 2412MHz) (RBW: 100kHz, VBW: 300kHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2412.0	88.3	90.2	30.9	36.4	15.5	0.0	98.3	100.2	-	-	-
2	2400.0	62.0	64.4	30.9	36.4	15.5	0.0	72.0	74.4	Funda-20dB	6.3	5.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

DATA OF SPURIOUS EMISSIONS(1GHz to 26GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : Panasonic Communications Co., Ltd. REPORT NO : 25HE0249-HO
Equipment : Wireless Camera Monitoring System REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BL-WV10A TEST DISTANCE : 3/1m
Sample No. : ES1 DATE : 04/21/2005
Power : AC 120 V / 60 Hz TEMPERATURE : 25deg.C
Mode : 11g 36Mbps 2437MHz HUMIDITY : 48%
Remarks : Tx Antenna Left 90 deg.(Hor) / 0 deg. (Ver) ENGINEER : Yutaka Yoshida

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2688.0	46.1	45.7	31.4	36.5	15.8	0.0	56.8	56.4	74.0	17.2	17.6
2	4874.0	43.3	43.5	35.3	36.0	8.0	1.0	51.6	51.8	74.0	22.4	22.2
3	7311.0	43.8	43.3	37.7	36.0	10.0	0.5	56.0	55.5	74.0	18.0	18.5
4	9748.0	44.4	43.4	36.3	36.4	11.9	0.2	56.4	55.4	74.0	17.6	18.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	44.8	43.3	41.5	36.0	13.8	0.3	54.9	53.4	74.0	19.1	20.6
6	14622.0	43.7	43.2	42.1	35.1	15.7	0.2	57.1	56.6	74.0	16.9	17.4
7	17059.0	42.7	42.6	44.6	34.9	17.1	1.1	61.1	61.0	74.0	12.9	13.0
8	19496.0	42.4	41.9	41.4	34.3	18.9	0.0	58.9	58.4	74.0	15.1	15.6
9	21933.0	46.2	45.9	40.5	34.2	19.2	0.0	62.2	61.9	74.0	11.8	12.1
10	24370.0	42.5	42.8	40.8	35.7	21.6	0.0	59.7	60.0	74.0	14.3	14.0

AV DETECT (RBW: 1MHz, VBW: 10Hz)												
No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2688.0	36.4	35.0	31.4	36.5	15.8	0.0	47.1	45.7	54.0	6.9	8.3
2	4874.0	30.0	30.9	35.3	36.0	8.0	1.0	38.3	39.2	54.0	15.7	14.8
3	7311.0	30.9	30.9	37.7	36.0	10.0	0.5	43.1	43.1	54.0	10.9	10.9
4	9748.0	30.5	30.5	36.3	36.4	11.9	0.2	42.5	42.5	54.0	11.5	11.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	30.8	30.8	41.5	36.0	13.8	0.3	40.9	40.9	54.0	13.1	13.1
6	14622.0	30.5	30.5	42.1	35.1	15.7	0.2	43.9	43.9	54.0	10.1	10.1
7	17059.0	29.7	29.7	44.6	34.9	17.1	1.1	48.1	48.1	54.0	5.9	5.9
8	19496.0	29.1	29.2	41.4	34.3	18.9	0.0	45.6	45.7	54.0	8.4	8.3
9	21933.0	33.0	32.9	40.5	34.2	19.2	0.0	49.0	48.9	54.0	5.0	5.1
10	24370.0	30.3	30.3	40.8	35.7	21.6	0.0	47.5	47.5	54.0	6.5	6.5

* Reference data

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen.The data above is its base noise.

*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

DATA OF SPURIOUS EMISSIONS(1GHz to 26GHz)

UL Apex Co., Ltd.
Head Office EMC Lab. No.1Semi Anechoic Chamber

Company : Panasonic Communications Co., Ltd.	REPORT NO : 25HE0249-HO
Equipment : Wireless Camera Monitoring System	REGULATION : Fcc Part15 Subpart C 15.247(d)
Model : BL-WV10A	TEST DISTANCE : 3/1m
Sample No. : ES1	DATE : 04/21/2005
Power : AC 120 V / 60 Hz	TEMPERATURE : 25deg.C
Mode : 11g 36Mbps 2462MHz	HUMIDITY : 48%
Remarks : Tx Antenna Left 90 deg.(Hor) / 0 deg. (Ver)	ENGINEER : Yutaka Yoshida

PK DETECT (RBW: 1MHz, VBW: 1MHz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit PK [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	60.1	61.3	30.8	36.4	15.5	0.0	70.0	71.2	74.0	4.0	2.8
2	2688.0	47.9	46.7	31.4	36.5	15.8	0.0	58.6	57.4	74.0	15.4	16.6
3	4924.0	43.1	44.5	35.6	35.9	8.1	1.0	51.9	53.3	74.0	22.1	20.7
4	7386.0	43.8	43.6	37.8	36.0	10.1	0.6	56.3	56.1	74.0	17.7	17.9
5	9848.0	43.7	43.6	36.2	36.4	12.0	0.3	55.8	55.7	74.0	18.2	18.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12310.0	43.8	44.1	41.5	35.9	13.9	0.4	54.2	54.5	74.0	19.8	19.5
7	14772.0	42.6	42.8	42.4	35.6	15.8	0.4	56.1	56.3	74.0	17.9	17.7
8	17234.0	42.2	42.4	44.5	35.0	17.2	1.0	60.4	60.6	74.0	13.6	13.4
9	19696.0	42.1	42.6	41.2	34.6	19.1	0.0	58.3	58.8	74.0	15.7	15.2
10	22158.0	44.8	43.8	40.5	34.1	19.5	0.0	61.2	60.2	74.0	12.8	13.8
11	24620.0	44.3	44.6	41.1	35.5	21.5	0.0	61.9	62.2	74.0	12.1	11.8

AV DETECT (RBW: 1MHz, VBW: 10Hz)

No.	FREQ [MHz]	S/A READING		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit AV [dBuV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	38.1	39.9	30.8	36.4	15.5	0.0	48.0	49.8	54.0	6.0	4.2
2	2688.0	40.2	38.4	31.4	36.5	15.8	0.0	50.9	49.1	54.0	3.1	4.9
3	4924.0	29.8	31.5	35.6	35.9	8.1	1.0	38.6	40.3	54.0	15.4	13.7
4	7386.0	30.9	31.1	37.8	36.0	10.1	0.6	43.4	43.6	54.0	10.6	10.4
5	9848.0	30.7	30.4	36.2	36.4	12.0	0.3	42.8	42.5	54.0	11.2	11.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12310.0	30.9	30.9	41.5	35.9	13.9	0.4	41.3	41.3	54.0	12.7	12.7
7	14772.0	30.0	30.3	42.4	35.6	15.8	0.4	43.5	43.8	54.0	10.5	10.2
8	17234.0	29.5	29.5	44.5	35.0	17.2	1.0	47.7	47.7	54.0	6.3	6.3
9	19696.0	29.4	29.5	41.2	34.6	19.1	0.0	45.6	45.7	54.0	8.4	8.3
10	22158.0	30.9	30.9	40.5	34.1	19.5	0.0	47.3	47.3	54.0	6.7	6.7
11	24620.0	31.2	31.3	41.1	35.5	21.5	0.0	48.8	48.9	54.0	5.2	5.1

* Reference data

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.5dB

*Except for the above table : All other spurious emissions were less than 20dB for the limit.

*In the frequency over the fifth harmonic, the noise from the EUT was not seen. The data above is its base noise.

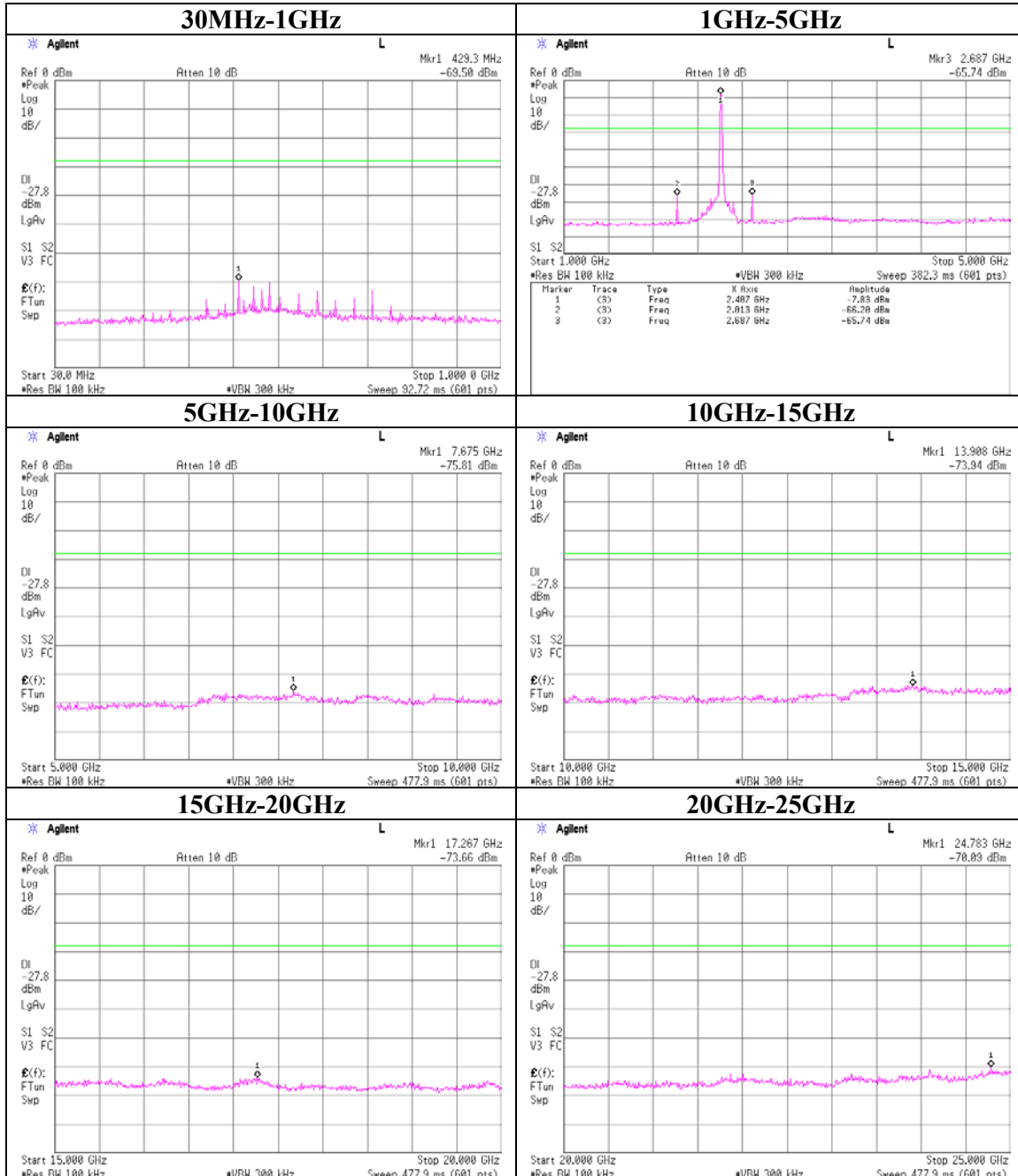
*The result is rounded off to the second decimal place. Therefore, there may be 0.1 difference for the result.

*Hi-Pass Fiter was not used for factor 0.0dB of the above table.

Conducted Spurious Emission (Antenna Terminal)

IEEE802.11b

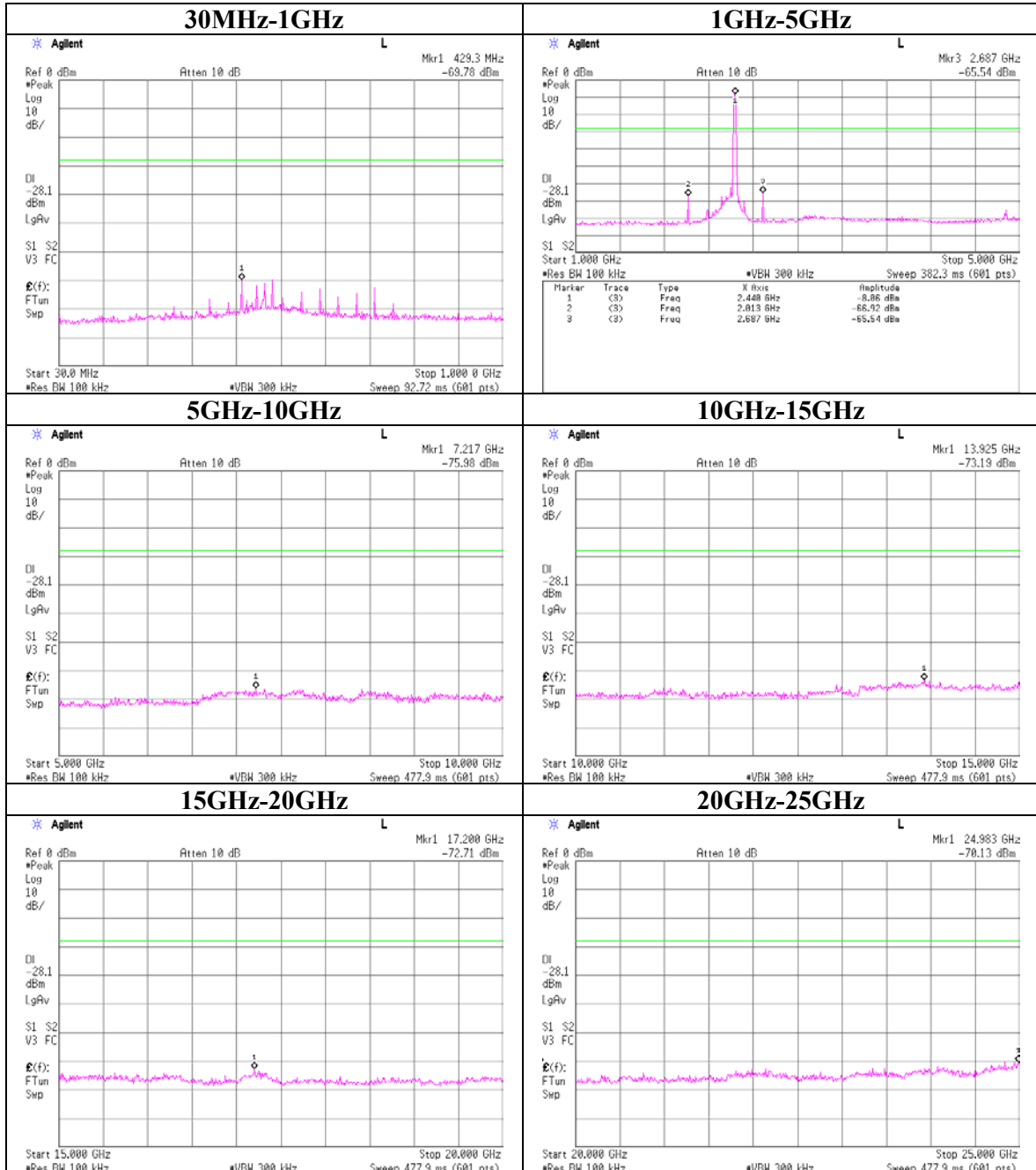
Ch : Low



Conducted Spurious Emission (Antenna Terminal)

IEEE802.11b

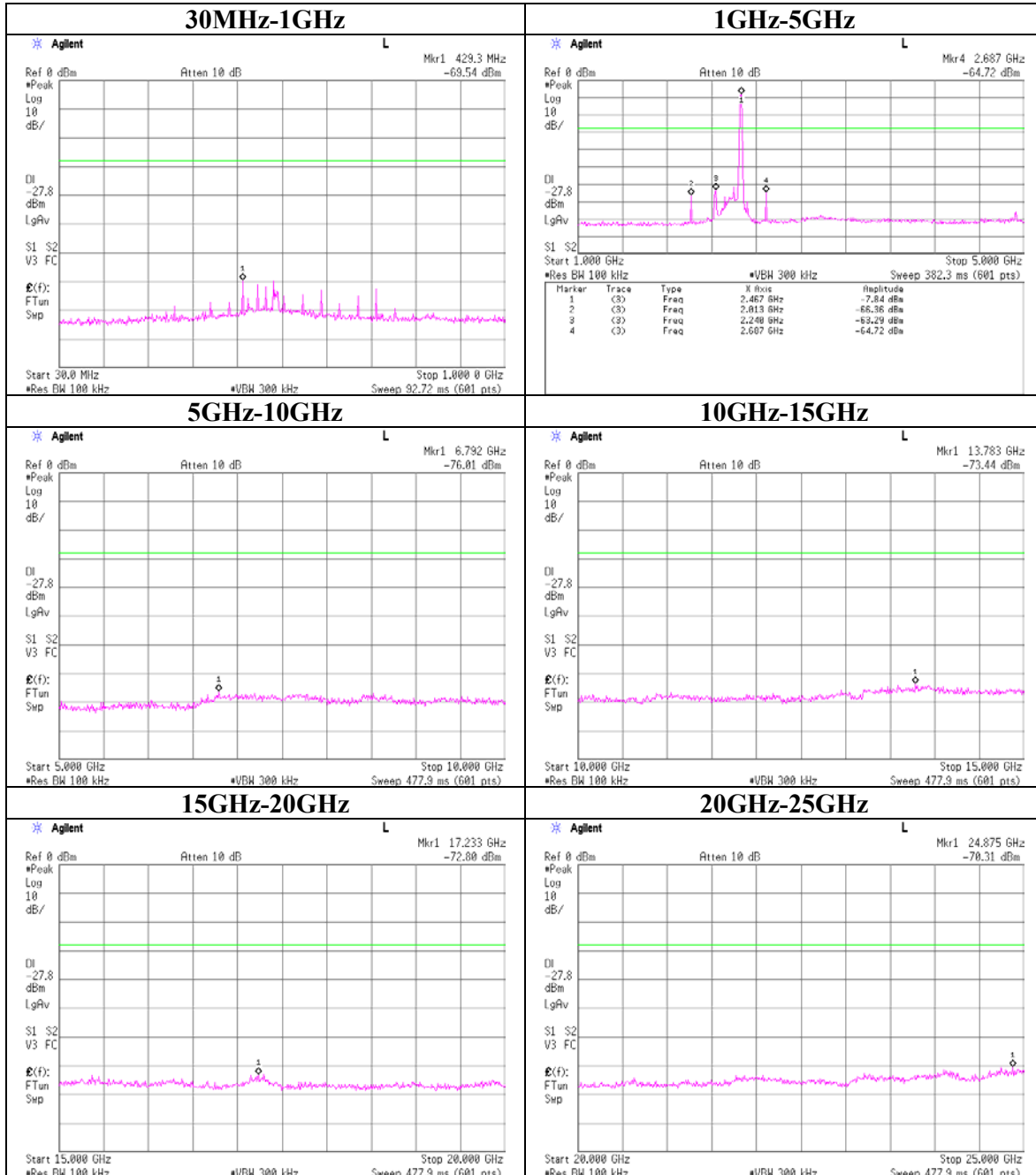
Ch : Mid



Conducted Spurious Emission (Antenna Terminal)

IEEE802.11b

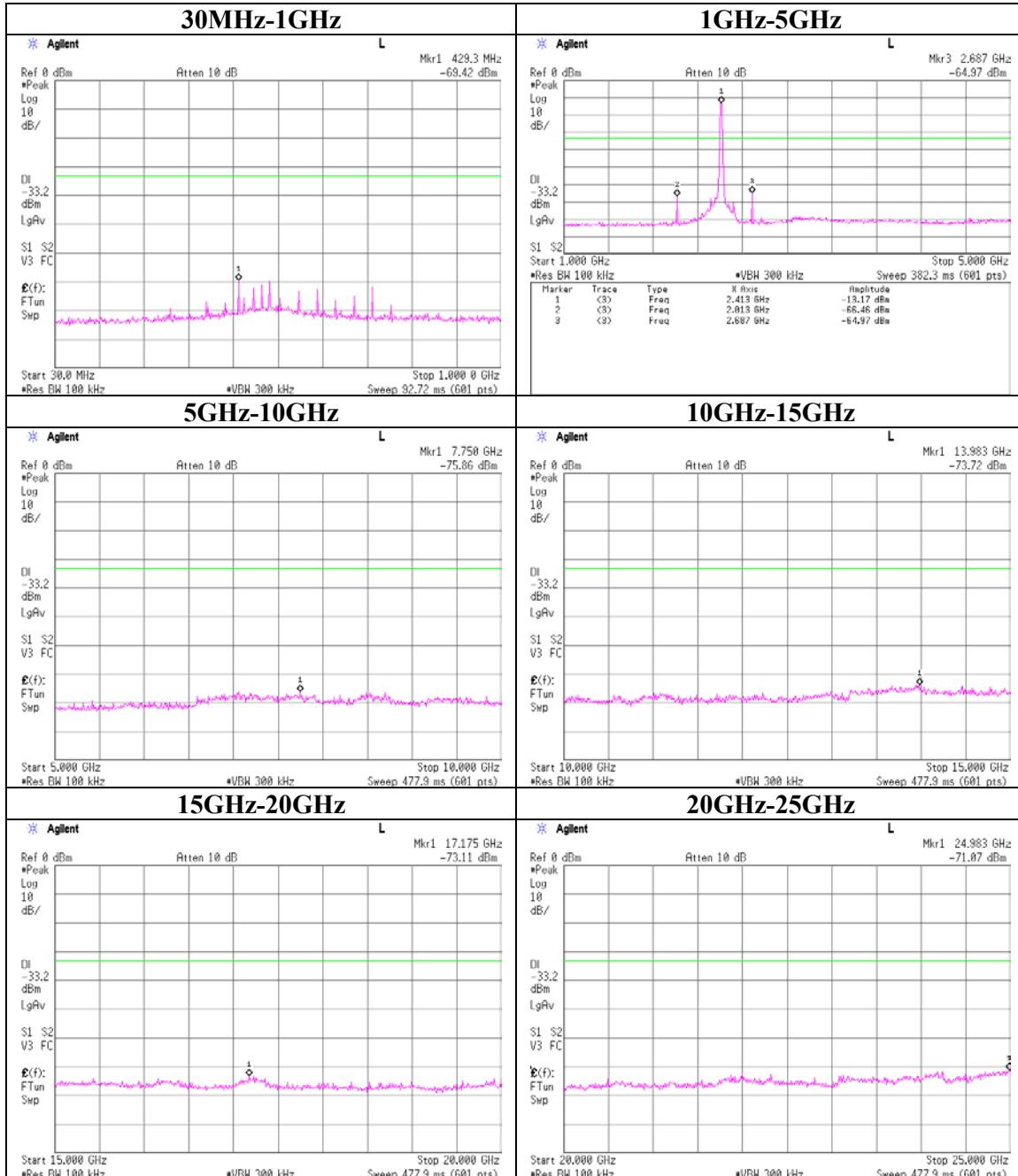
Ch : High



Conducted Spurious Emission (Antenna Terminal)

IEEE802.11g

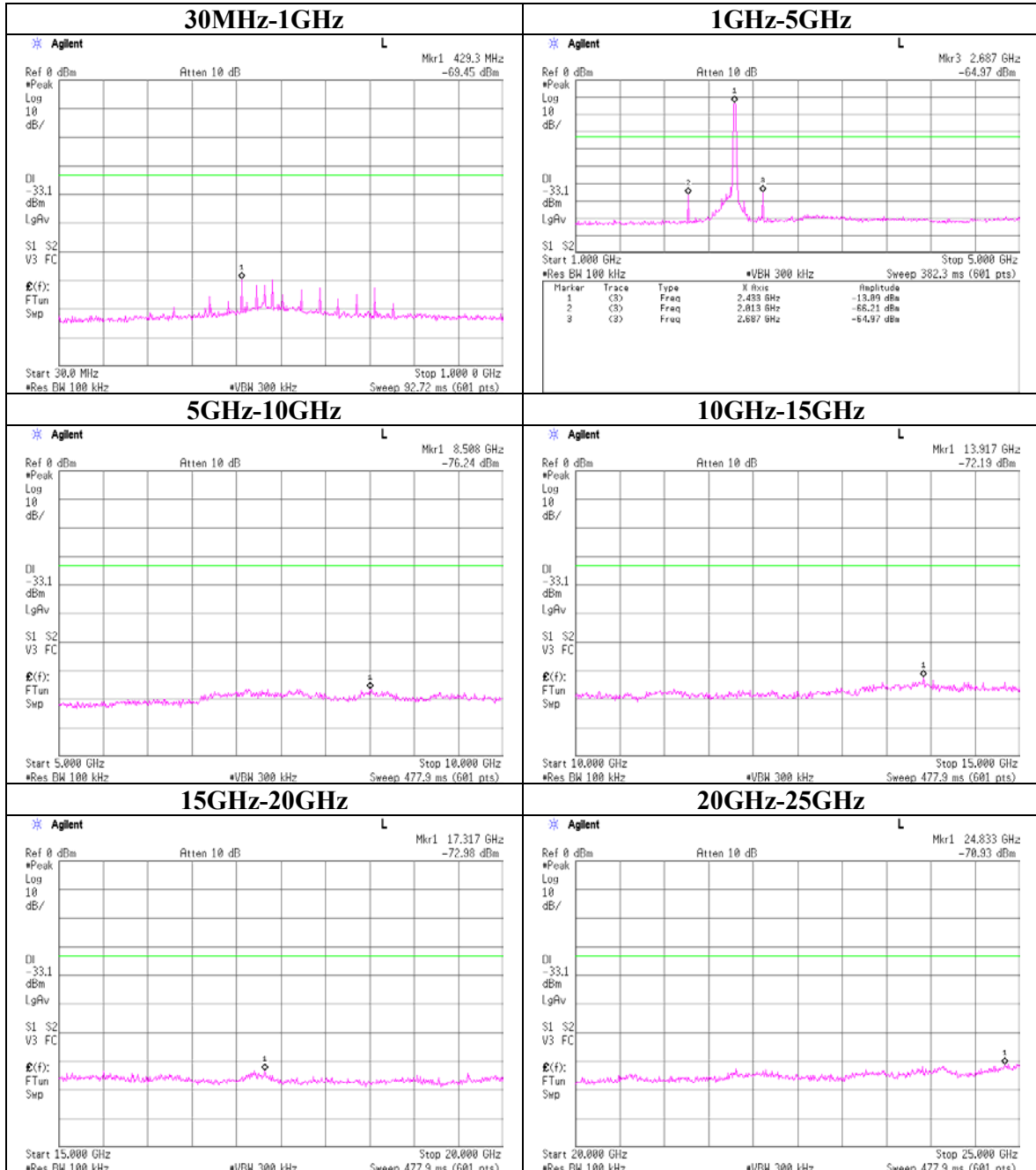
Ch : Low



Conducted Spurious Emission (Antenna Terminal)

IEEE802.11g

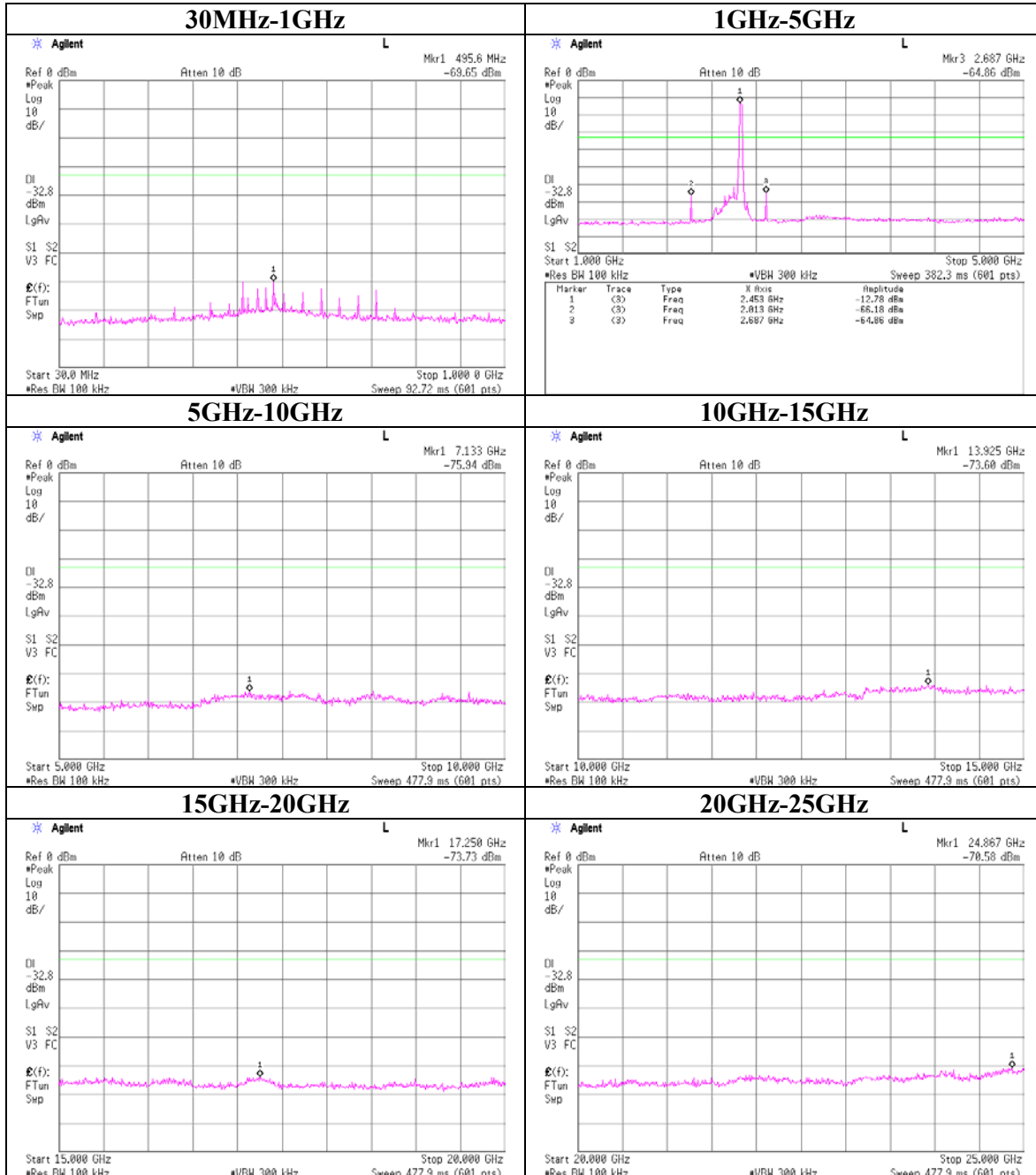
Ch : Mid



Conducted Spurious Emission (Antenna Terminal)

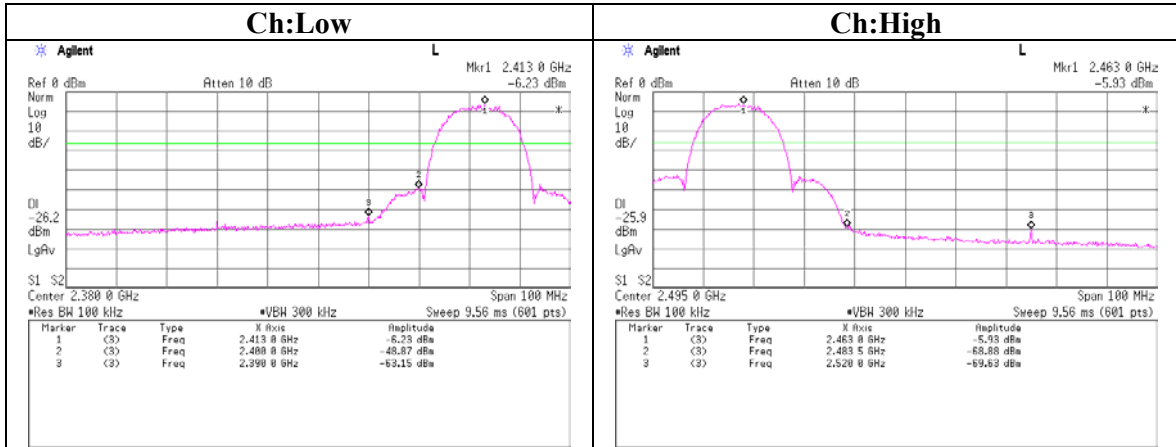
IEEE802.11g

Ch : High

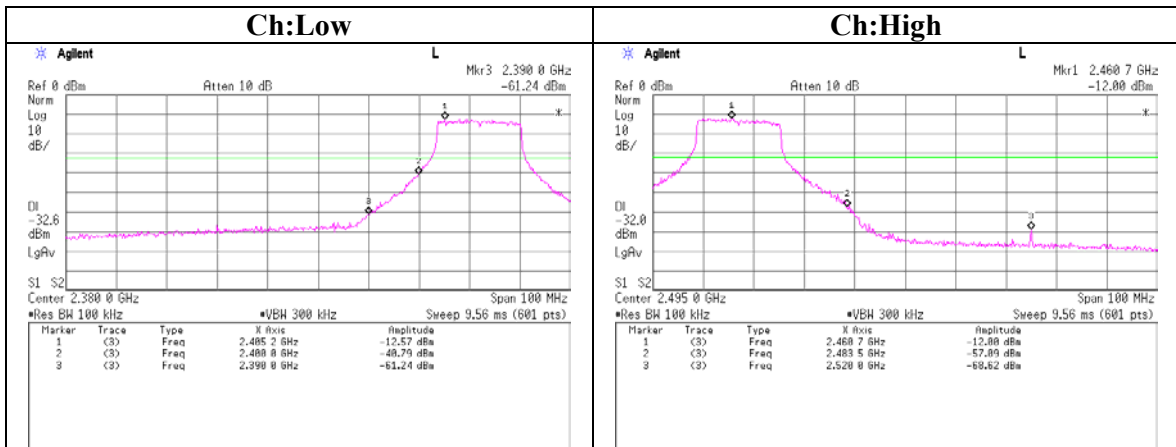


Conducted emission Band Edge compliance (Antenna Terminal)

IEEE802.11b



IEEE802.11g

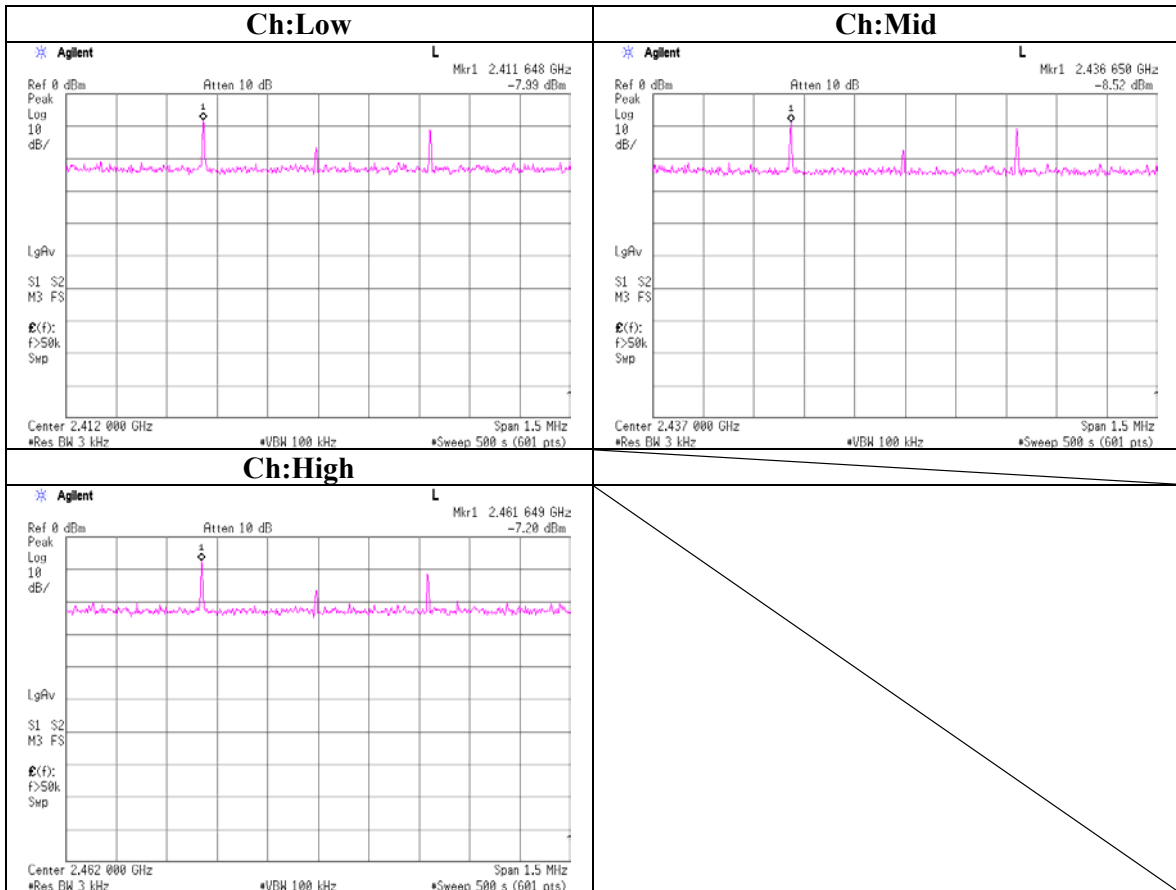


Power Density (Antenna Terminal)

								UL Apex Co., Ltd.							
								Head Office EMC Lab. No.3 Measurement Room							
COMPANY				: Panasonic Communications Co., Ltd.				REGULATION				: FCC Part15 Subpart C 15.247(e)			
EQUIPMENT				: Wireless Camera Monitoring System				TEST DISTANCE				: -			
MODEL				: BL-WV10A				DATE				: 04/22/2005			
SAMPLE NO.				: ES1				TEMPERATURE				: 22°C			
POWER				: AC120V/60Hz (AC Adaptor)				HUMIDITY				: 33%			
MODE				: Tx / IEEE802.11b, 11g(ch1,6,11)				ENGINEER				: Yutaka Yoshida			
[IEEE802.11b]															
Ch	Freq.	Reading	Cable	Atten.	Result	Limit	Margin								
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]								
Low	2412.0	-7.99	0.8	10.0	2.8	8.0	5.2								
Mid	2437.0	-8.52	0.8	10.0	2.3	8.0	5.7								
High	2462.0	-7.20	0.8	10.0	3.6	8.0	4.4								
Sample Calculation:															
Result = Reading + Cable Loss (spplied by customer) + Attenuator															
[IEEE802.11g]															
Ch	Freq.	Reading	Cable	Atten.	Result	Limit	Margin								
	[MHz]	[dBm]	Loss [dB]	[dB]	[dBm]	[dBm]	[dB]								
Low	2412.0	-21.59	0.8	10.0	-10.8	8.0	18.8								
Mid	2437.0	-21.09	0.8	10.0	-10.3	8.0	18.3								
High	2462.0	-20.32	0.8	10.0	-9.5	8.0	17.5								
Sample Calculation:															
Result = Reading + Cable Loss (supplied by customer)+ Attenuator															

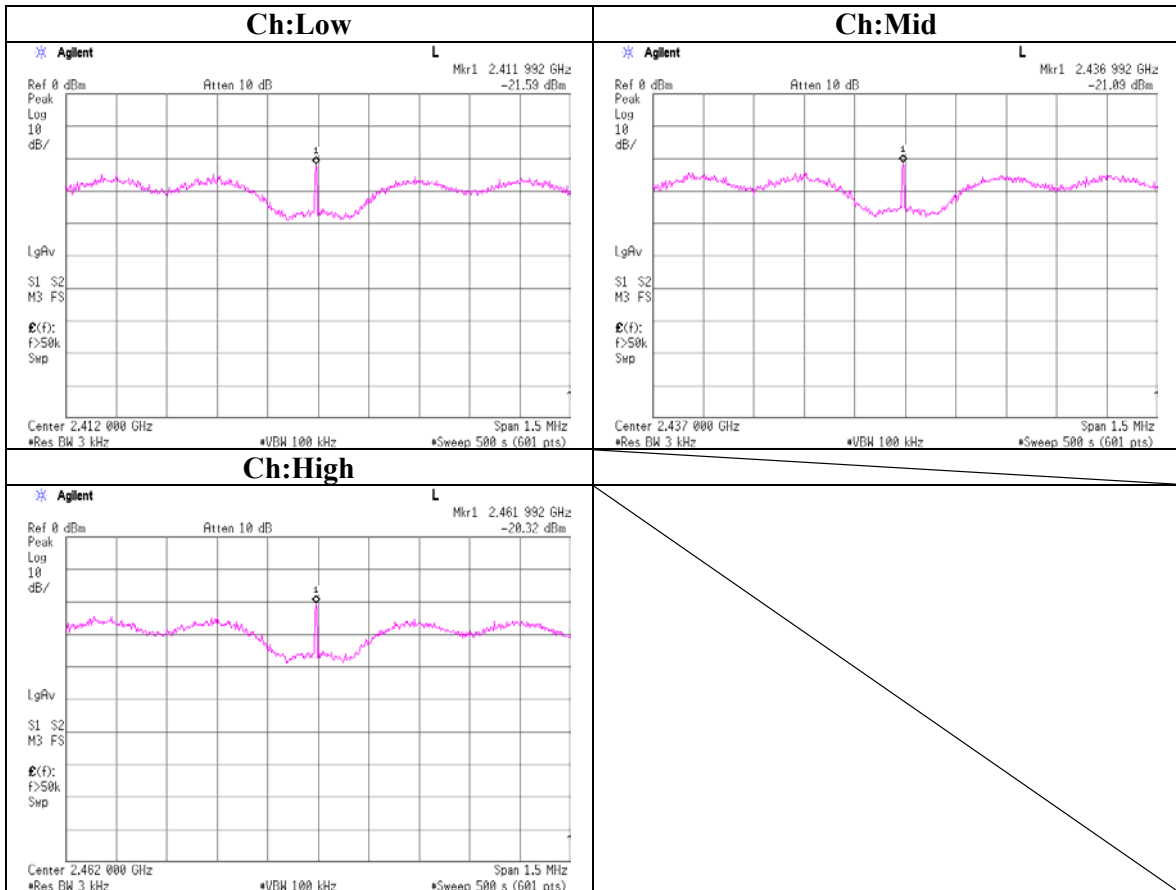
Power Density (Antenna Terminal)

IEEE802.11b



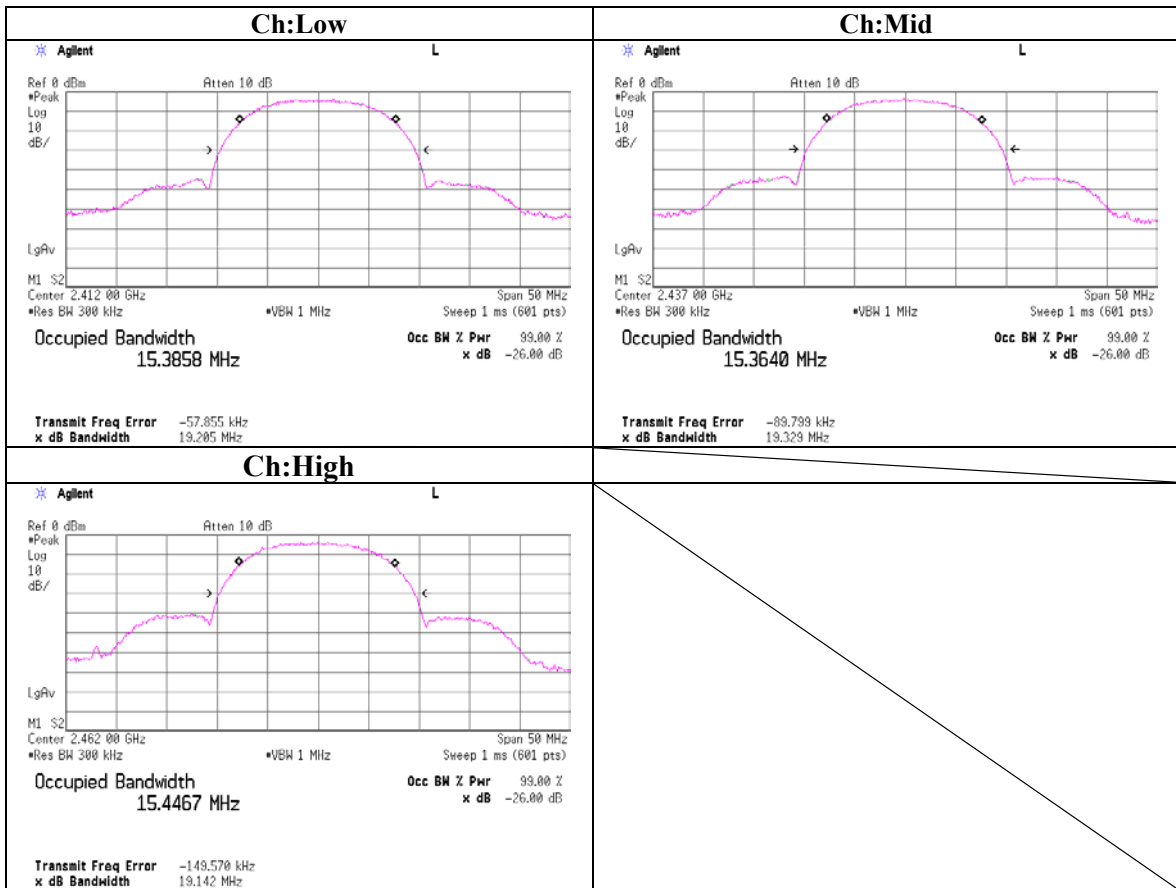
Power Density (Antenna Terminal)

IEEE802.11g



99% Occupied Bandwidth (Antenna Terminal)

IEEE802.11b



99% Occupied Bandwidth (Antenna Terminal)

IEEE802.11g

