

APPENDIX 2: Data of EMI test

Conducted Emission

Dual Band Diversity Ant., 11b, Tx, Ch:Low, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company

Kind of EUT

Model No.

Serial No.

: OMRON Corporation

: FA Wireless LAN Unit

: WE70-AP

: 279651000201

Report No.

Power

Temp./Humi.

Operator

: 27DE0139-HO

: AC 120V / 60Hz (DC power supply in)

: 25deg.C / 30%

: Kenichi Adachi

Mode / Remarks: 11b, Tx2412MHz, 11Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

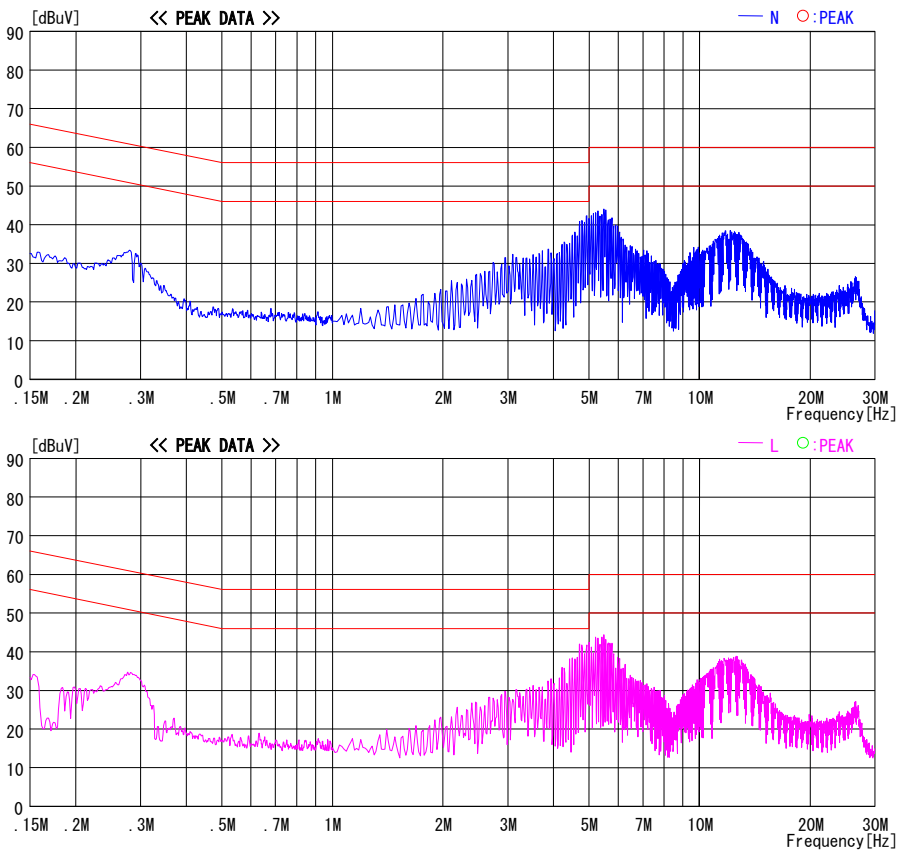


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the

Conducted Emission
Dual Band Diversity Ant., 11b, Tx, Ch:Mid, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg.C / 30%
Operator : Kenichi Adachi

Mode / Remarks: 11b, Tx2437MHz, 11Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

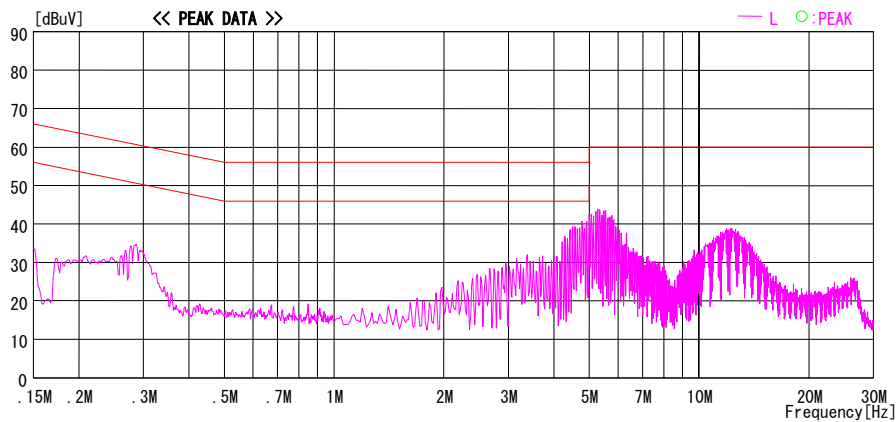
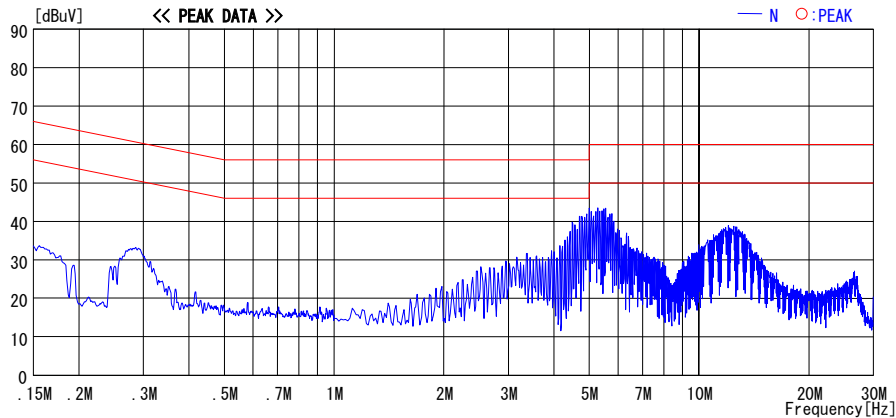


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE LO
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., 11b, Tx, Ch:Mid, High power

DATA OF CONDUCTED EMISSION TEST

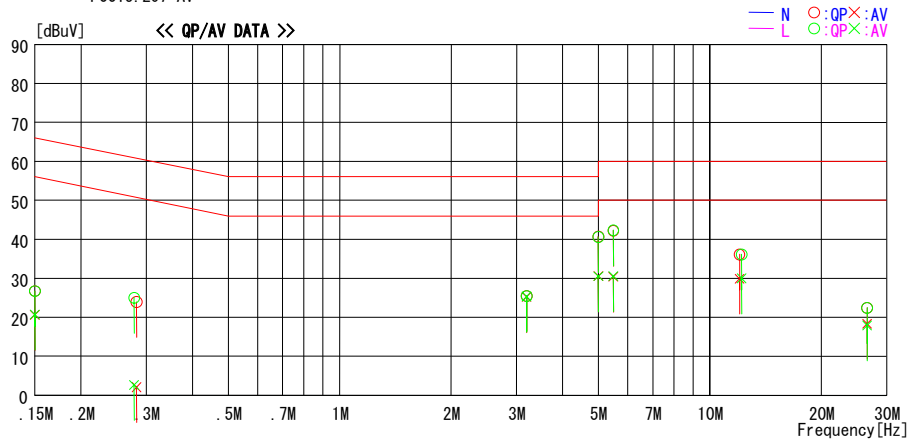
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg.C / 30%
Operator : Kenichi Adachi

Mode / Remarks: 11b, Tx2437MHz, 11Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15000	26.5	20.4	0.2	26.7	20.6	66.0	56.0	39.3	35.4	N	
0.15000	26.5	20.5	0.2	26.7	20.7	66.0	56.0	39.3	35.3	L	
0.28217	23.5	1.7	0.4	23.9	2.1	60.8	50.8	36.9	48.7	N	
0.27797	24.6	2.2	0.4	25.0	2.6	60.9	50.9	35.9	48.3	L	
3.19911	24.7	24.5	0.7	25.4	25.2	56.0	46.0	30.6	20.8	N	
3.19911	24.8	24.6	0.7	25.5	25.3	56.0	46.0	30.5	20.7	L	
4.99553	39.7	29.5	1.0	40.7	30.5	56.0	46.0	15.3	15.5	N	
4.99553	39.6	29.5	1.0	40.6	30.5	56.0	46.0	15.4	15.5	L	
5.48696	41.2	29.4	1.0	42.2	30.4	60.0	50.0	17.8	19.6	N	
5.48707	41.3	29.6	1.0	42.3	30.6	60.0	50.0	17.7	19.4	L	
12.03173	34.6	28.4	1.5	36.1	29.9	60.0	50.0	23.9	20.1	N	
12.17393	34.6	28.5	1.5	36.1	30.0	60.0	50.0	23.9	20.0	L	
26.59849	20.0	15.9	2.4	22.4	18.3	60.0	50.0	37.6	31.7	N	
26.59849	20.0	15.5	2.4	22.4	17.9	60.0	50.0	37.6	32.1	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.

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Conducted Emission
Dual Band Diversity Ant., 11b, Tx, Ch:High, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11b, Tx2462MHz, 11Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

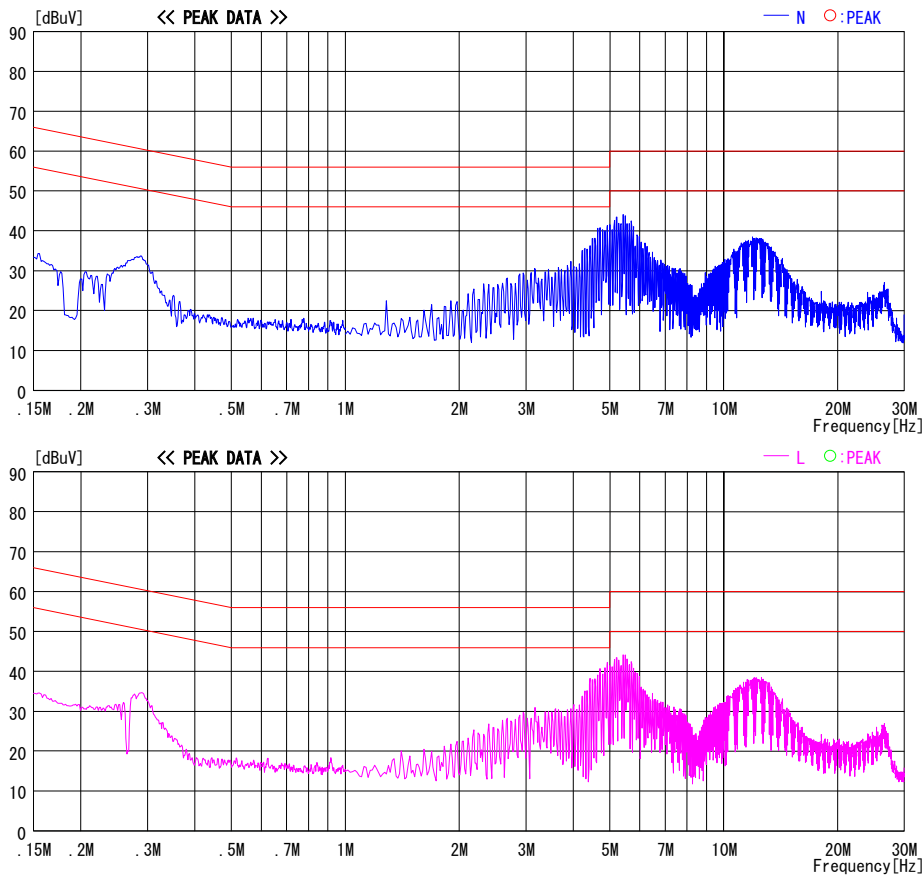


CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE)
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., Tx, Ch:Low, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11g, Tx2412MHz, 54Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

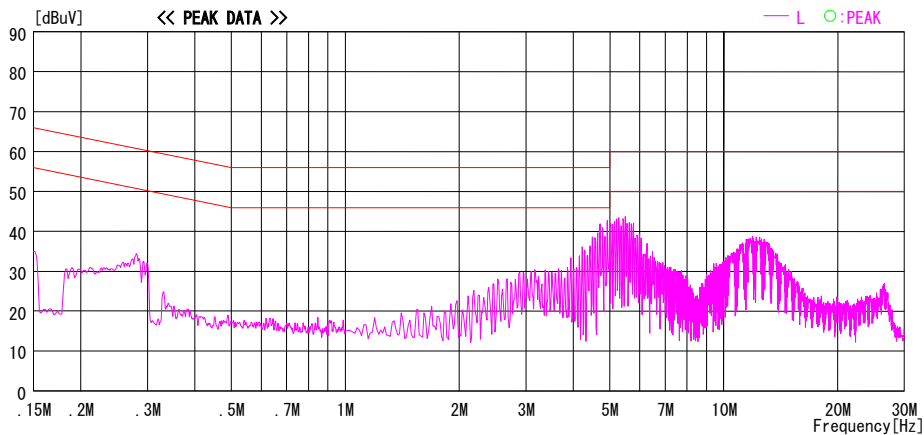
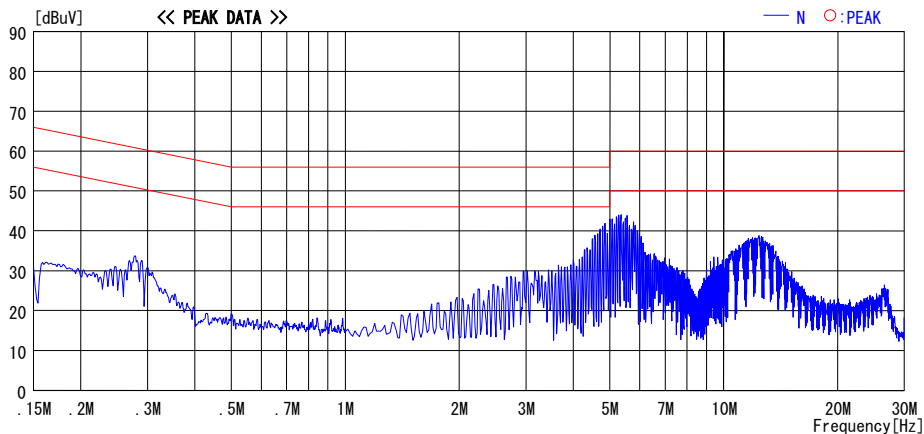


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., Tx, Ch:Mid, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11g, Tx2437MHz, 54Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

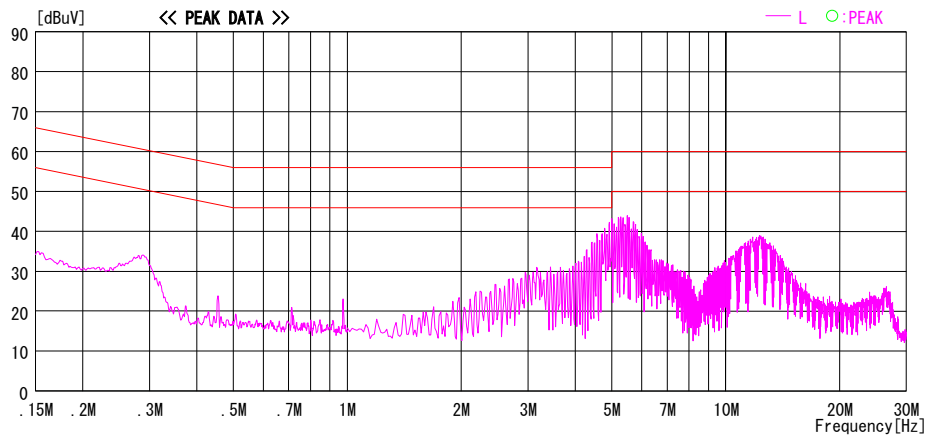
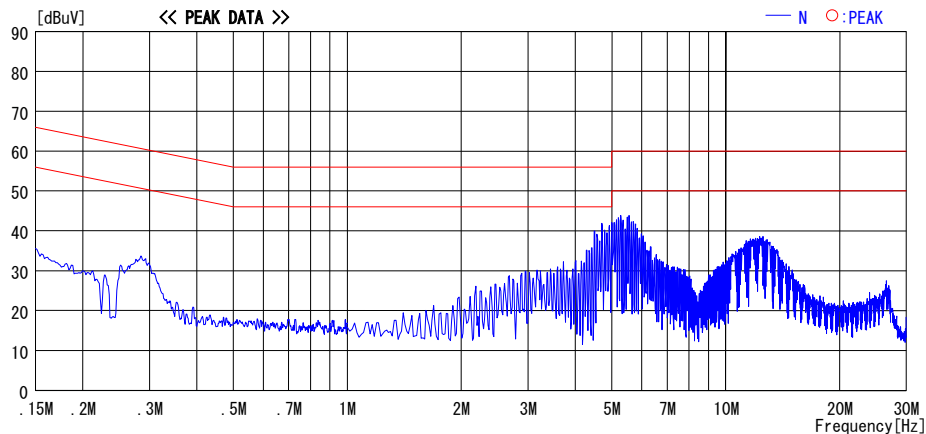


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., Tx, Ch:High, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11g, Tx2462MHz, 54Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

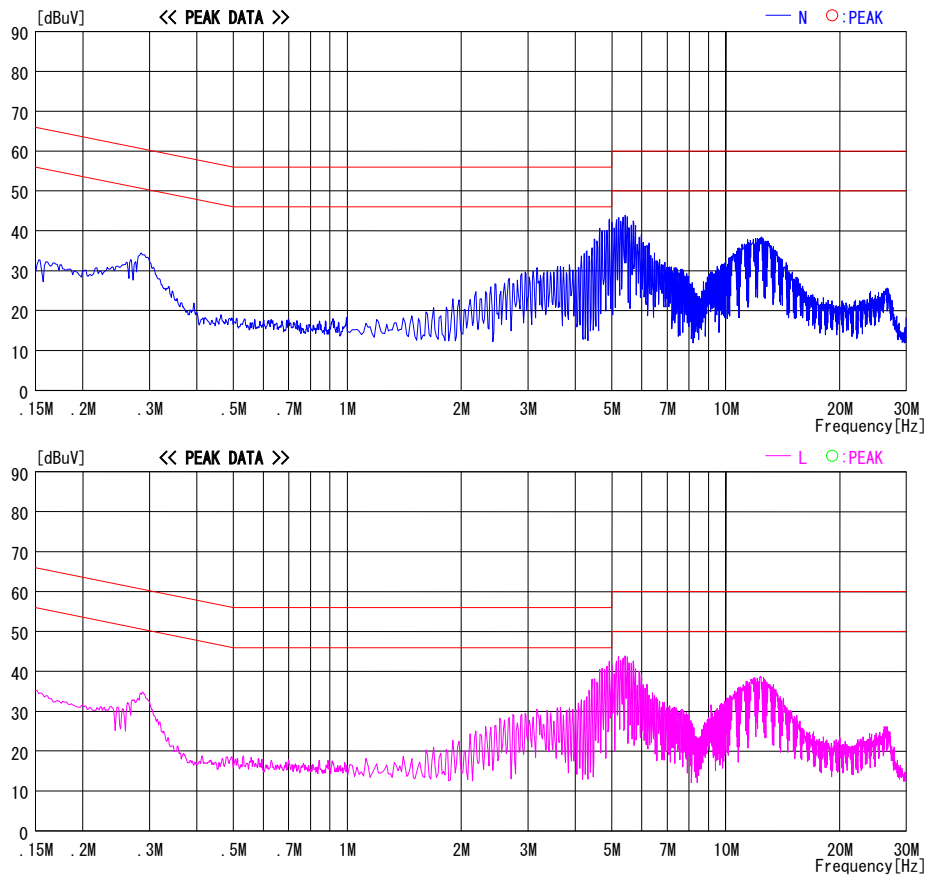


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., 11a, Tx, Ch:165 (5825MHz) , High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11a, Tx5825MHz, 54Mbps, Ant:A,

LIMIT : FCC15. 207 QP
FCC15. 207 AV

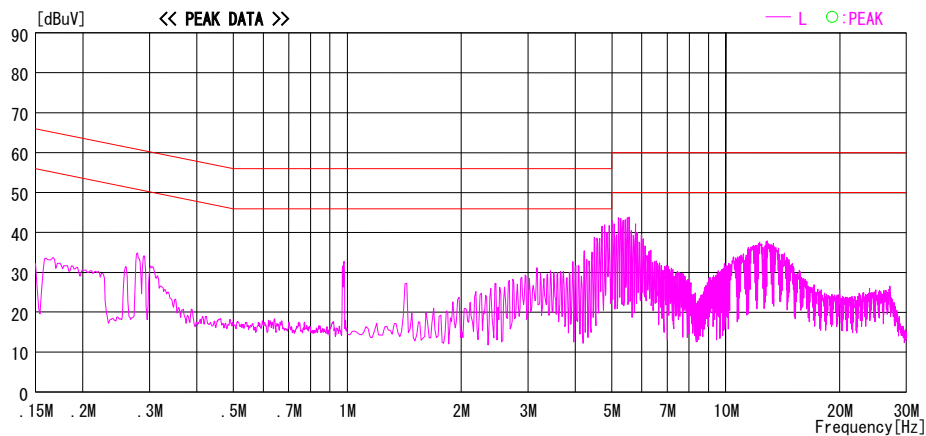
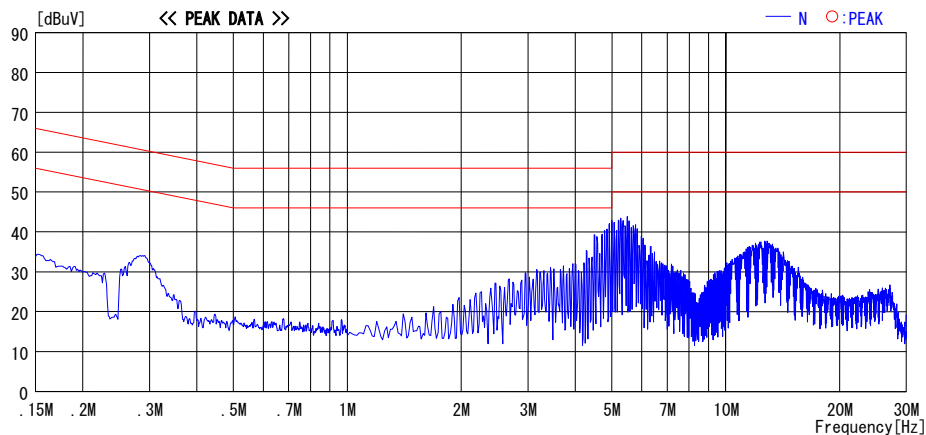


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C. F (LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., 11a, Tx, Ch:165 (5825MHz) , High power

DATA OF CONDUCTED EMISSION TEST

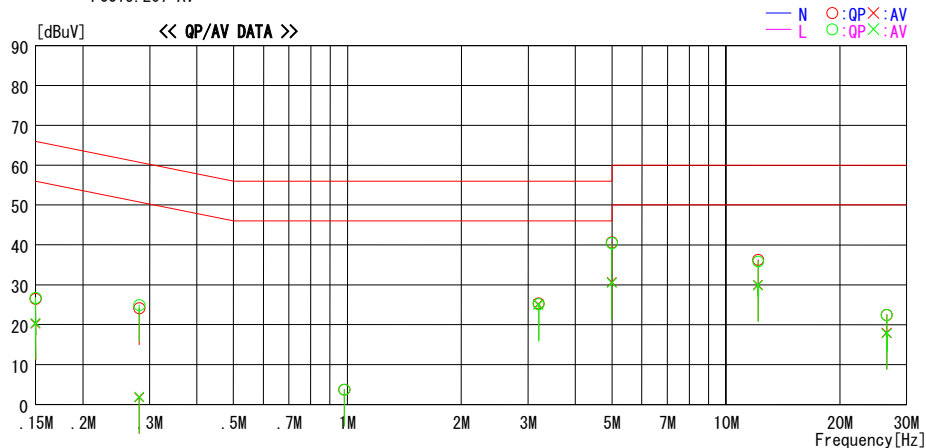
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11a, Tx5825MHz, 54Mbps, Ant:A,

LIMIT : FCC15. 207 QP
FCC15. 207 AV



Frequency	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP	AV		QP	AV	QP	AV	QP	AV		
[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
0.15000	26.3	20.0	0.2	26.5	20.2	66.0	56.0	39.5	35.8	N	
0.28174	23.7	1.4	0.4	24.1	1.8	60.8	50.8	36.7	49.0	N	
0.98156	3.3	—	0.4	3.7	—	56.0	—	52.3	—	N	
3.19893	24.6	24.4	0.7	25.3	25.1	56.0	46.0	30.7	20.9	N	
4.99548	39.6	29.7	1.0	40.6	30.7	56.0	46.0	15.4	15.3	N	
12.16370	34.8	28.5	1.5	36.3	30.0	60.0	50.0	23.7	20.0	N	
26.59847	20.1	15.6	2.4	22.5	18.0	60.0	50.0	37.5	32.0	N	
0.15000	26.5	20.2	0.2	26.7	20.4	66.0	56.0	39.3	35.6	L	
0.28174	24.5	1.5	0.4	24.9	1.9	60.8	50.8	35.9	48.9	L	
0.98156	3.3	—	0.4	3.7	—	56.0	—	52.3	—	L	
3.19893	24.5	24.3	0.7	25.2	25.0	56.0	46.0	30.8	21.0	L	
4.99548	39.5	29.5	1.0	40.5	30.5	56.0	46.0	15.5	15.5	L	
12.16370	34.4	28.4	1.5	35.9	29.9	60.0	50.0	24.1	20.1	L	
26.59847	20.0	15.4	2.4	22.4	17.8	60.0	50.0	37.6	32.2	L	

CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C. F (L1SN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Conducted Emission
Dual Band Diversity Ant., 11b, / 11g Rx, Ch:Mid

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11b / 11g, Rx2437MHz, Ant:A,

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV

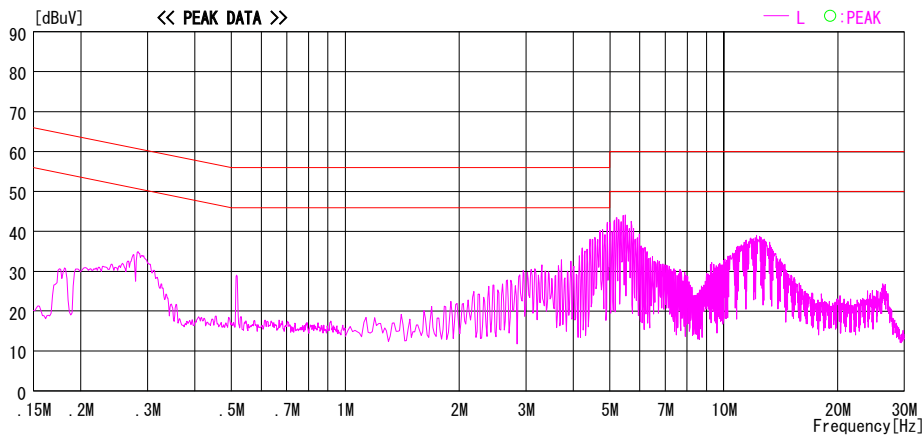
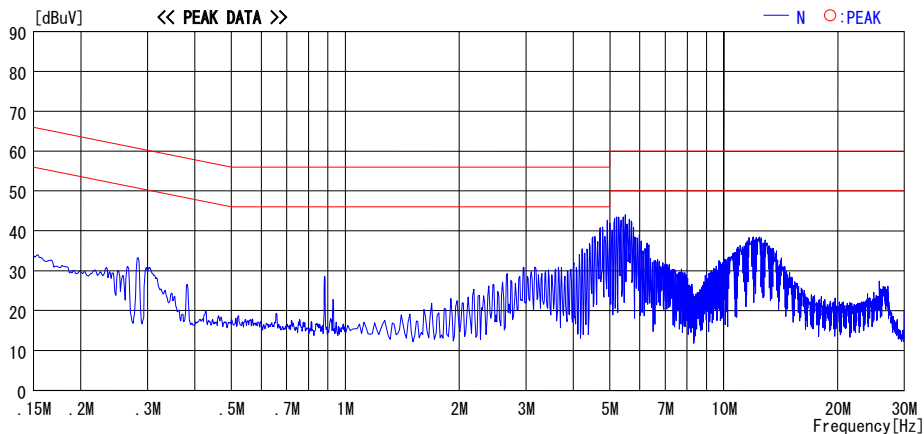


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Dual Band Diversity Ant., 11b / 11g Rx, Ch:Mid

DATA OF CONDUCTED EMISSION TEST

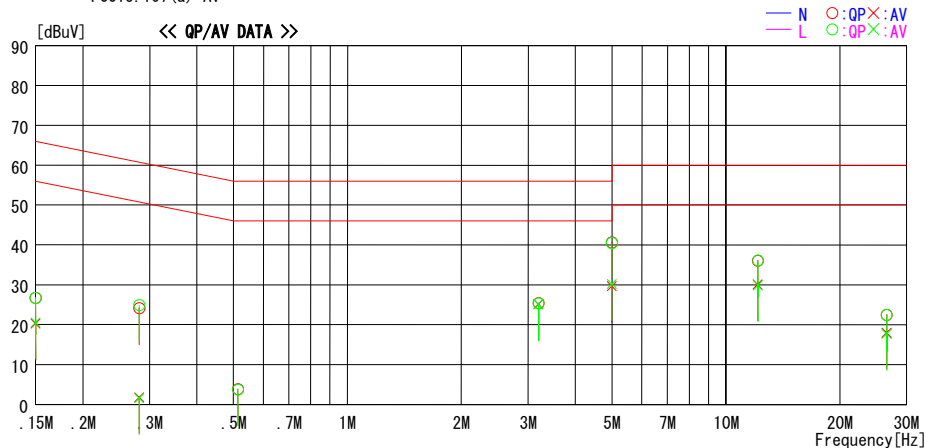
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11b / 11g, Rx2437MHz, Ant:A,

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV



Frequency	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15000	26.5	20.1	0.2	26.7	20.3	66.0	56.0	39.3	35.7	N	
0.28175	23.7	1.4	0.4	24.1	1.8	60.8	50.8	36.7	49.0	N	
0.51387	3.4	—	0.4	3.8	—	56.0	—	52.2	—	N	
3.19898	24.7	24.4	0.7	25.4	25.1	56.0	46.0	30.6	20.9	N	
4.99554	39.6	28.7	1.0	40.6	29.7	56.0	46.0	15.4	16.3	N	
12.13574	34.6	28.6	1.5	36.1	30.1	60.0	50.0	24.0	19.9	N	
26.59892	20.1	15.6	2.4	22.5	18.0	60.0	50.0	37.5	32.0	N	
0.15000	26.5	20.3	0.2	26.7	20.5	66.0	56.0	39.3	35.5	L	
0.28175	24.5	1.2	0.4	24.9	1.6	60.8	50.8	35.9	49.2	L	
0.51387	3.3	—	0.4	3.7	—	56.0	—	52.3	—	L	
3.19898	24.6	24.4	0.7	25.3	25.1	56.0	46.0	30.7	20.9	L	
4.99554	39.5	29.2	1.0	40.5	30.2	56.0	46.0	15.5	15.8	L	
12.15357	34.6	28.4	1.5	36.1	29.9	60.0	50.0	23.9	20.1	L	
26.59892	20.1	15.3	2.4	22.5	17.7	60.0	50.0	37.5	32.3	L	

CHART: WITH FACTOR, Peak hold data. Data is uncorrected. CALCULATION: RESULT=READING+C. F (L1SN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Conducted Emission
Dual Band Diversity Ant., 11a, Rx, Ch:165 (5825MHz)

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/02/01

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11a, Rx5825MHz, Ant:A,

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV

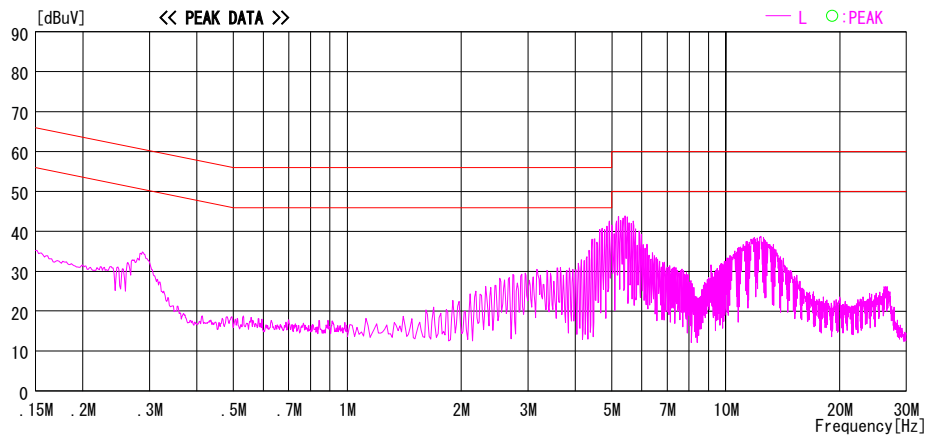
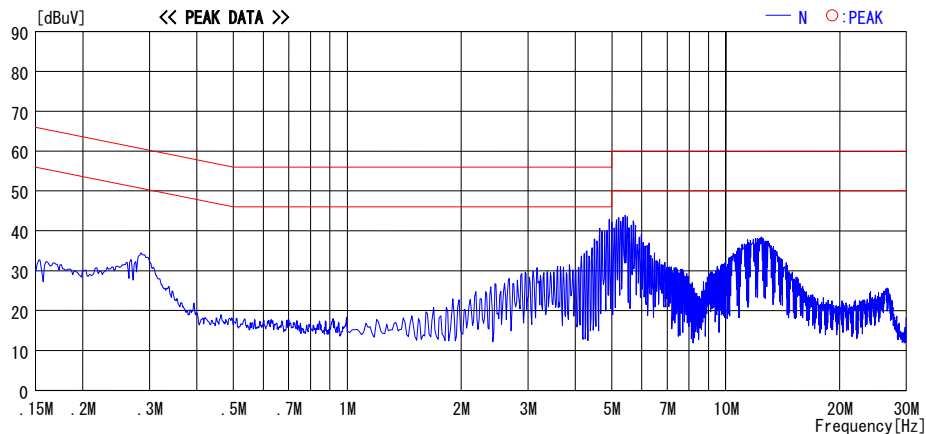


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Magnetic Pedestal Ant., 11b, Tx, Ch:Mid, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/03/03

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 32%
Operator : Motoya Imura

Mode / Remarks : 11b Tx2437MHz, 11Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

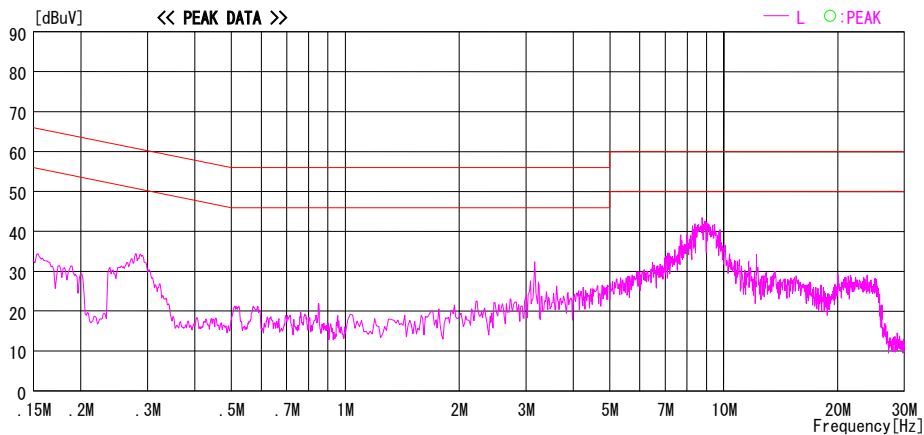
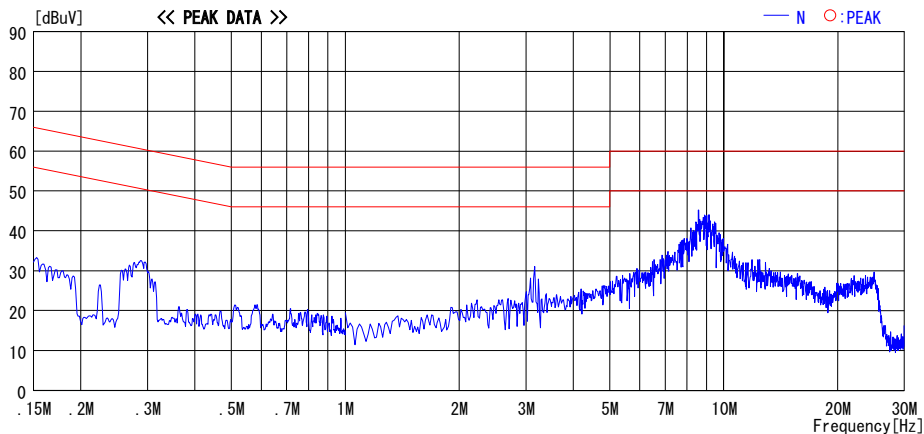


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Magnetic Pedestal Ant., 11g, Tx, Ch:Mid, High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/03/03

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 32%
Operator : Motoya Imura

Mode / Remarks : 11g Tx2437MHz, 54Mbps, Ant:A,

LIMIT : FCC15.207 QP
FCC15.207 AV

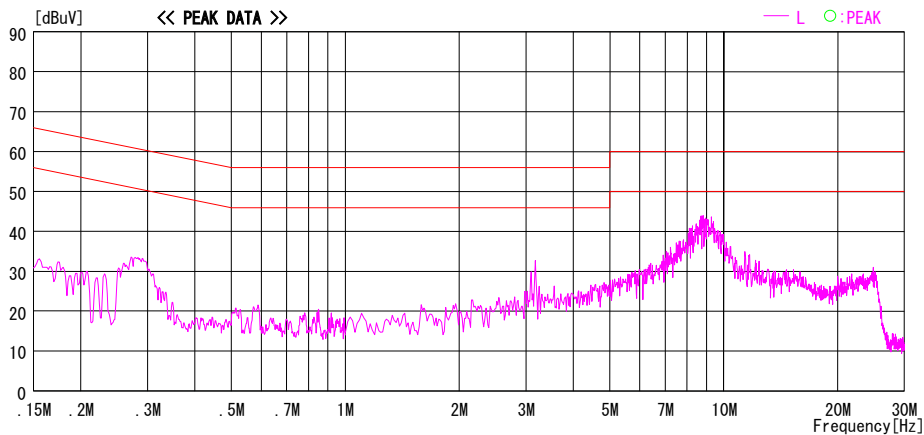
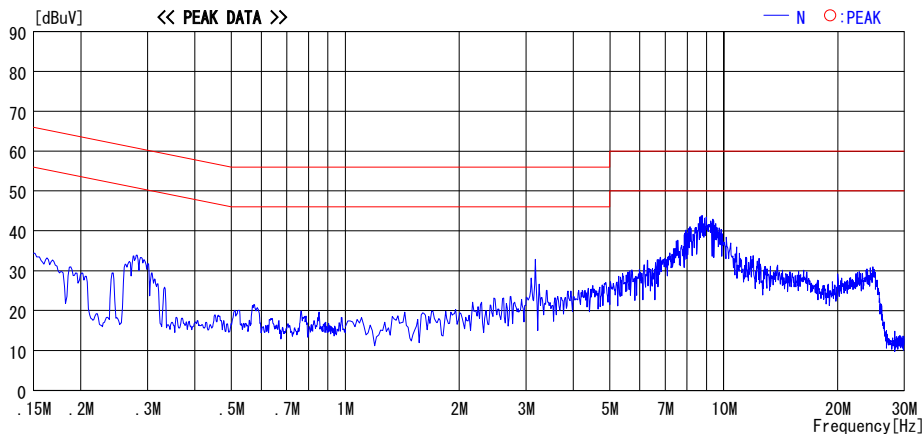


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

Conducted Emission
Magnetic Pedestal Ant., 11g, Tx, Ch:Mid, High power

DATA OF CONDUCTED EMISSION TEST

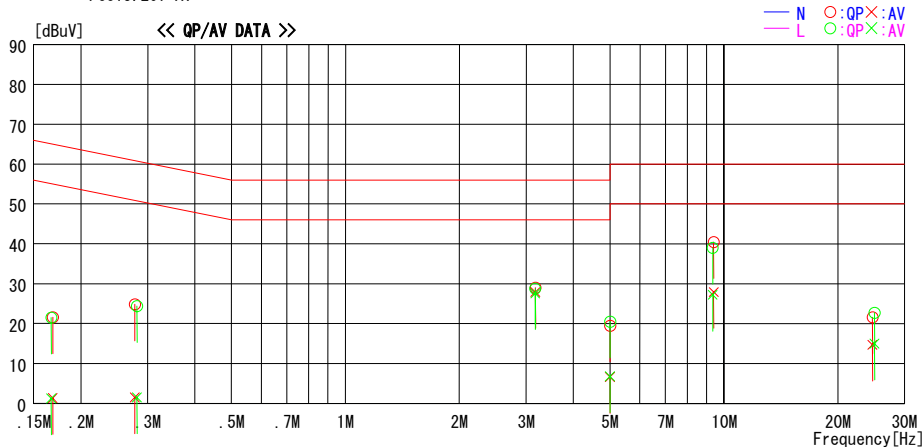
UL Apex Co., Ltd. Head Office EMC Lab. No. 4 Semi Anechoic Chamber
Date : 2007/03/03

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 32%
Operator : Motoya Imura

Mode / Remarks : 11g Tx2437MHz, 54Mbps, Ant:A.

LIMIT : FCC15.207 QP
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.16842	21.4	1.1	0.2	21.6	1.3	65.0	55.0	43.4	53.7	N	
0.27770	24.5	1.2	0.3	24.8	1.5	60.9	50.9	36.1	49.4	N	
3.17720	28.4	27.3	0.6	29.0	27.9	56.0	46.0	27.0	18.1	N	
4.99870	18.8	5.9	0.7	19.5	6.6	56.0	46.0	36.5	39.4	N	
9.40030	39.5	27.0	0.9	40.4	27.9	60.0	50.0	19.6	22.1	N	
24.68666	20.1	13.2	1.5	21.6	14.7	60.0	50.0	38.4	35.3	N	
0.16700	21.3	1.0	0.2	21.5	1.2	65.1	55.1	43.6	53.9	L	
0.28140	24.1	1.2	0.3	24.4	1.5	60.8	50.8	36.4	49.3	L	
3.17501	28.2	27.0	0.6	28.8	27.6	56.0	46.0	27.2	18.4	L	
4.99880	19.8	6.1	0.7	20.5	6.8	56.0	46.0	35.5	39.2	L	
9.33900	38.1	26.3	0.9	39.0	27.2	60.0	50.0	21.0	22.8	L	
24.99994	21.2	13.5	1.5	22.7	15.0	60.0	50.0	37.3	35.0	L	

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

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Conducted Emission
Magnetic Pedestal Ant., 11a, Tx, Ch:165 (5825MHz) , High power

DATA OF CONDUCTED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/03/03

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-H0
Power : AC 120V / 60Hz (DC power supply in)
Temp./Humi. : 25deg. C / 32%
Operator : Motoya Imura

Mode / Remarks : 11a Tx5825MHz, 54Mbps, Ant:A,

LIMIT : FCC15.107(a) QP
FCC15.107(a) AV

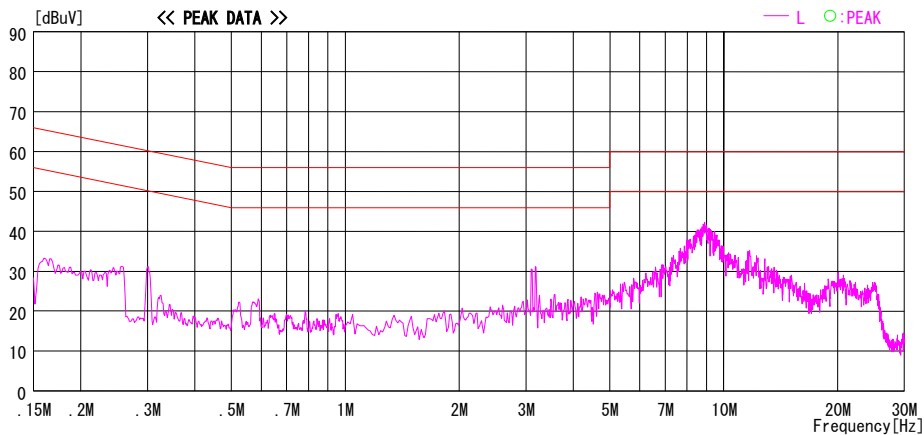
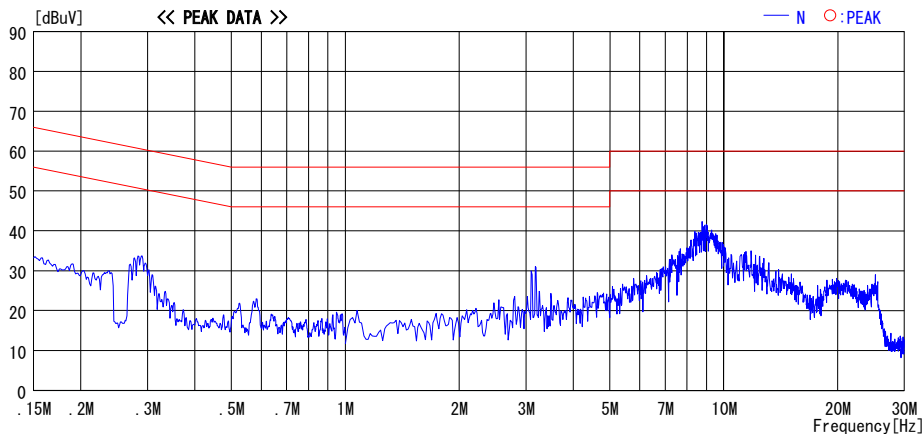


CHART:WITH FACTOR,Peak hold data.Data is uncorrected. CALCURATION:RESULT=READING+C.F(LISN LOSS+CABLE
Except for the above table : adequate margin data below the limits.

6dB Bandwidth

Company Omron Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000202
Power DC 24V
Mode IEEE802.11b (11Mbps) / 11g (54Mbps) /
11a (54Mbps) Tx , Ant A (Worst),
High power

UL-Apex Co.,Ltd.
Head Office EMC Lab. No.7 Shielded room

Regulation FCC Part15 Subpart C 15.247(a)(2) / RSS-210 A8.2(1)
Test Distance -
Date 01/29/2007 02/05/2007
Temperature 25deg.C. 25deg.C.
Humidity 25 % 30 %
Engineer Kenichi Adachi Kenichi Adachi

IEEE802.11b, Ant A(Worst)

Ch	Freq.	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
Low	2412.0	12.195	>500
Mid	2437.0	11.375	>500
High	2462.0	11.880	>500

IEEE802.11g, Ant A(Worst)

Ch	Freq.	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
Low	2412.0	16.568	>500
Mid	2437.0	16.558	>500
High	2462.0	16.550	>500

IEEE802.11a, Ant A(Worst)

Ch	Freq.	6dB Bandwidth	Limit
	[MHz]	[MHz]	[kHz]
165	5825.0	16.550	>500

UL Apex Co., Ltd.

Head Office EMC Lab.

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

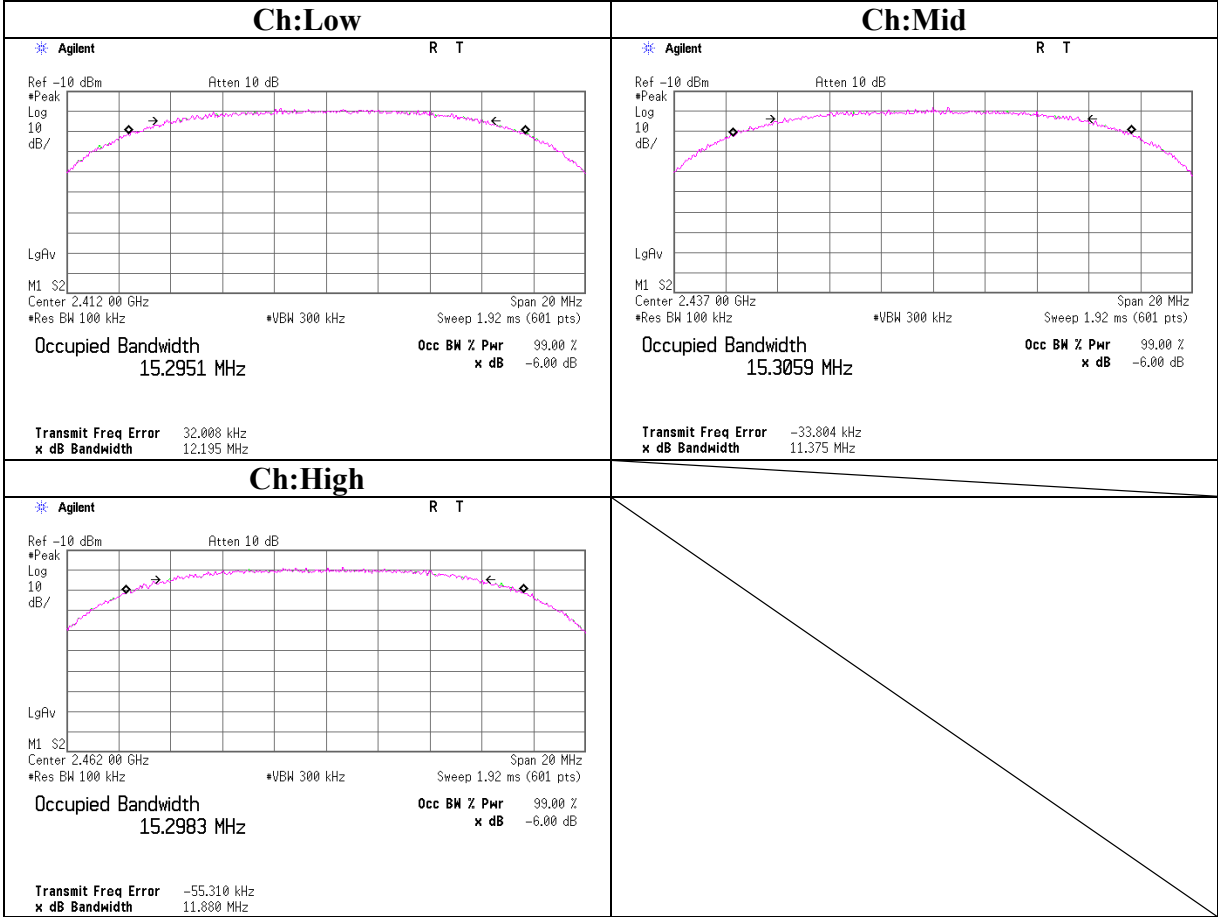
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

MF060b(14.06.06)

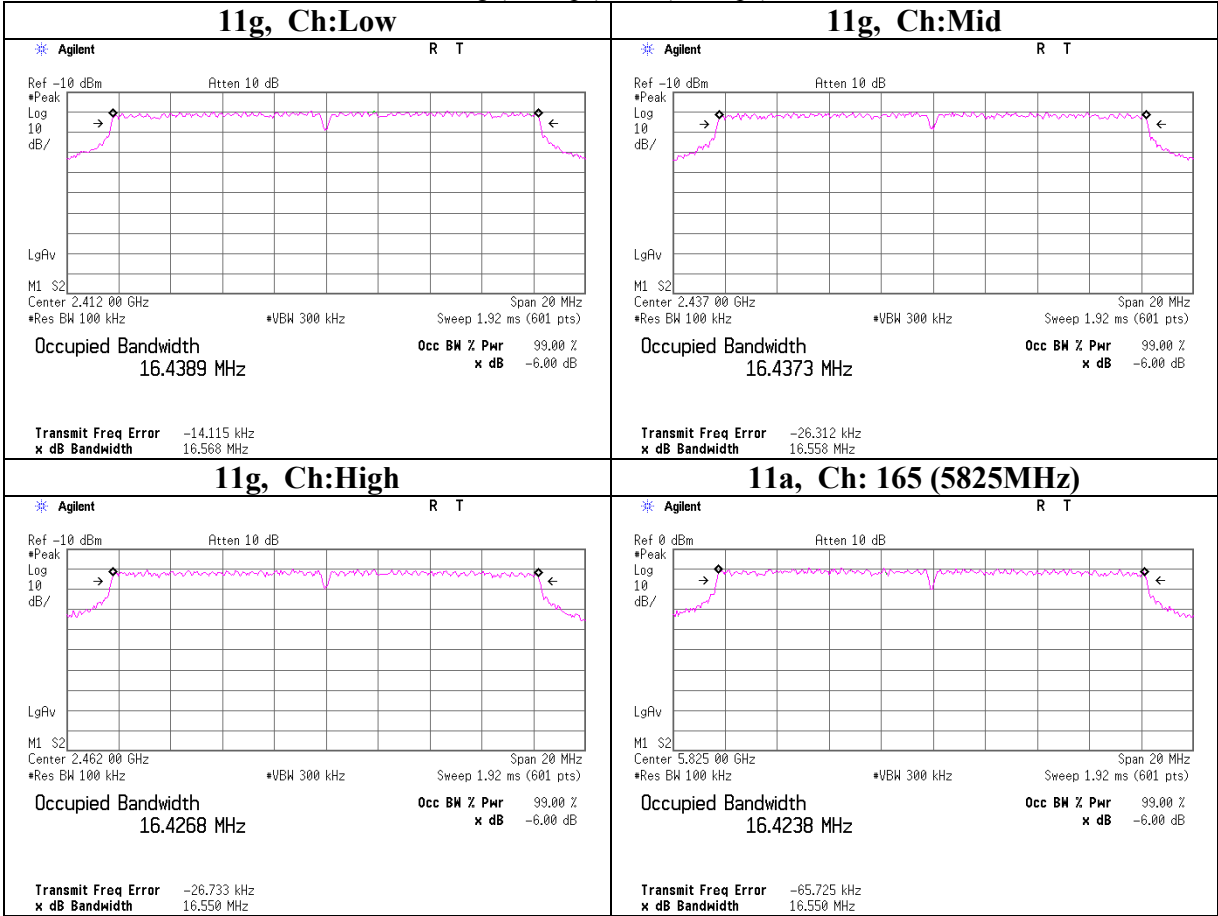
6dB Bandwidth

11b (11Mbps)



6dB Bandwidth

11g (54Mbps), 11a (54Mbps)



Maximum Peak Output Power

Company Omron Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000202
Power DC 24V
Mode IEEE802.11b (11Mbps) / 11g (54Mbps)
Tx , Ant A (Worst) / Ant B,
High power

UL-Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded room
Regulation FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
Test Distance -
Date 01/29/2007
Temperature 25deg.C.
Humidity 25 %
Engineer Kenichi Adachi

IEEE802.11b ANT A (Worst)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	-6.42	0.00	19.97	13.55	22.65	30.00	1000	16.45
Mid	2437.0	-6.25	0.00	19.97	13.72	23.55	30.00	1000	16.28
High	2462.0	-5.97	0.00	19.97	14.00	25.12	30.00	1000	16.00

IEEE802.11b ANT B

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	-6.65	0.00	19.97	13.32	21.48	30.00	1000	16.68
Mid	2437.0	-6.44	0.00	19.97	13.53	22.54	30.00	1000	16.47
High	2462.0	-6.16	0.00	19.97	13.81	24.04	30.00	1000	16.19

IEEE802.11g ANT A (Worst)

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	1.08	0.00	19.97	21.05	127.35	30.00	1000	8.95
Mid	2437.0	1.29	0.00	19.97	21.26	133.66	30.00	1000	8.74
High	2462.0	1.30	0.00	19.97	21.27	133.97	30.00	1000	8.73

IEEE802.11g ANT B

Ch	Freq. [MHz]	P/M (PK) Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin
					[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2412.0	1.05	0.00	19.97	21.02	126.47	30.00	1000	8.98
Mid	2437.0	1.15	0.00	19.97	21.12	129.42	30.00	1000	8.88
High	2462.0	1.25	0.00	19.97	21.22	132.43	30.00	1000	8.78

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

* In the above table, factor 0.0dB represents no use of extra cable. Power sensor directly connected to ANT port.

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

*ANT B data is a preliminary test data (reference data).

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(14.06.06)

Maximum Peak Output Power

Company	Omron Corporation	UL-Apex Co., Ltd.
Equipment	FA Wireless LAN Unit	Head Office EMC Lab. No.7 Shielded room
Model	WE70-AP	Regulation FCC Part15 Subpart C 15.247(b)(3) / RSS-210 A8.4(4)
S/N	279651000202	Test Distance -
Power	DC 24V	Date 02/05/2007
Mode	IEEE802.11a (54Mbps) Tx ,	Temperature 25deg.C.
	Ant A (Worst) / Ant B, High power	Humidity 30 %
		Engineer Kenichi Adachi

[IEEE802.11a] ANT A (Worst)

Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
165	5825.0	10.62	0.00	10.16	20.78	119.67	30.00	1000	9.22

[IEEE802.11a] ANT B

Ch	Freq.	P/M (PK) Reading	Cable Loss	Atten.	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	
165	5825.0	10.26	0.00	10.16	20.42	110.15	30.00	1000	9.58

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

* In the above table, factor 0.0dB represents no use of extra cable. Power sensor directly connected to ANT port.

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

*ANT B data is a preliminary test data (reference data).

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11b, Tx, Ch:Low, High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/01/20

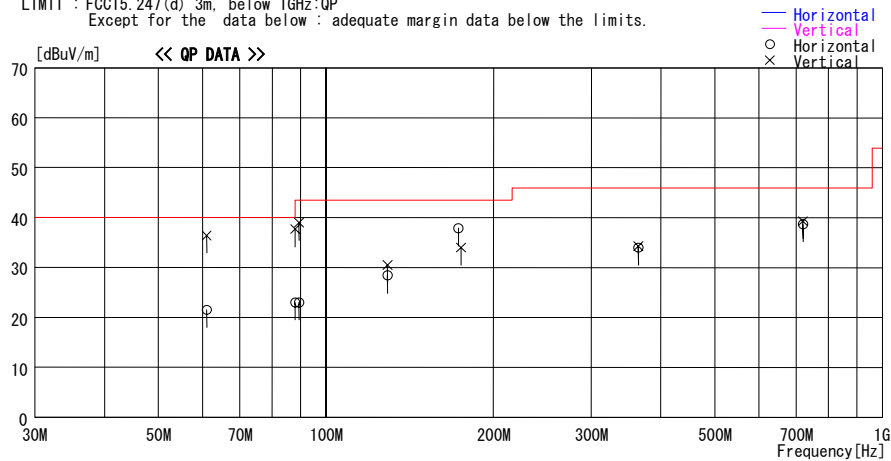
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 23deg.C. / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11b Tx 2412MHz, 11Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver:

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



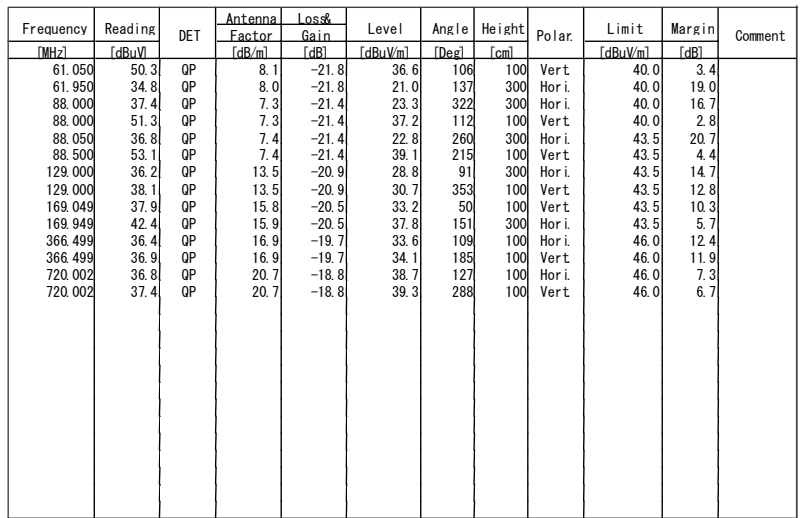
Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
61.050	35.2	QP	8.1	-21.8	21.5	82	300	Hori.	40.0	18.5	
61.050	50.1	QP	8.1	-21.8	36.4	4	100	Vert.	40.0	3.6	
88.000	51.8	QP	7.3	-21.4	37.7	85	100	Vert.	40.0	2.3	
88.000	37.1	QP	7.3	-21.4	23.0	94	300	Hori.	40.0	17.0	
89.400	36.9	QP	7.5	-21.4	23.0	102	300	Hori.	43.5	20.5	
89.400	52.9	QP	7.5	-21.4	39.0	233	100	Vert.	43.5	4.5	
129.000	35.8	QP	13.5	-20.9	28.4	94	300	Hori.	43.5	15.1	
129.000	37.9	QP	13.5	-20.9	30.5	172	100	Vert.	43.5	13.0	
173.099	42.3	QP	16.1	-20.5	37.9	153	300	Hori.	43.5	5.6	
174.899	38.2	QP	16.2	-20.4	34.0	59	100	Vert.	43.5	9.5	
364.166	36.9	QP	16.8	-19.7	34.0	197	100	Hori.	46.0	12.0	
364.166	37.2	QP	16.8	-19.7	34.3	28	100	Vert.	46.0	11.7	
720.002	37.4	QP	20.7	-18.8	39.3	301	100	Vert.	46.0	6.7	
720.002	36.8	QP	20.7	-18.8	38.7	138	100	Hori.	46.0	7.3	

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz-
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

DATA OF RADIATED EMISSION TEST

- Horizontal
- Vertical
- Horizontal
- × Vertical



*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

MF060b(14.06.06)

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11b, Tx, Ch:High, High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamb
Date : 2007/01/20

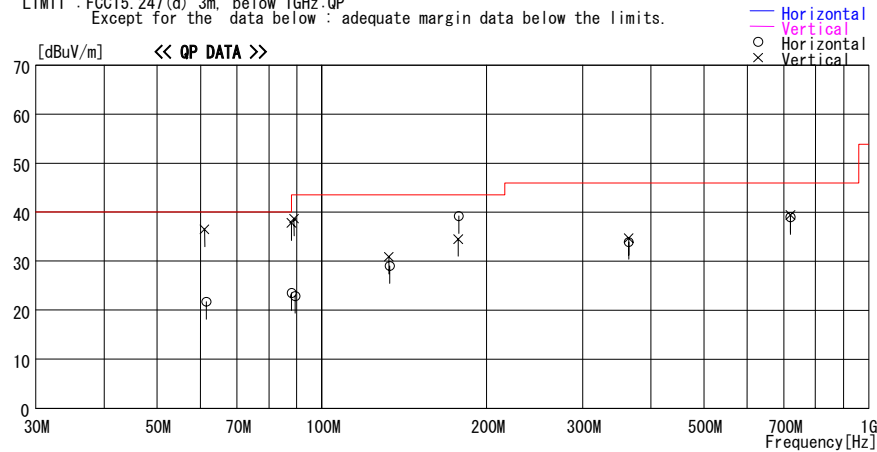
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 23deg C. / 30%
Operator : Kenichi Adachi

Mode / Remarks: 11b Tx 2462MHz, 11Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver: Ant:Y

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna	Loss	Level	Angle	Height	Polar	Limit	Margin	Comment
[MHz]	[dBuV]		Factor	Gain	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
61.050	50.2	QP	8.1	-21.8	36.5	252	100	Vert	40.0	3.5	
61.500	35.4	QP	8.1	-21.8	21.7	284	300	Hori	40.0	18.3	
88.000	37.6	QP	7.3	-21.4	23.5	284	300	Hori	40.0	16.5	
88.000	51.9	QP	7.3	-21.4	37.8	163	100	Vert	40.0	2.2	
88.950	52.7	QP	7.4	-21.4	38.7	160	100	Vert	43.5	4.8	
89.400	36.8	QP	7.5	-21.4	22.9	66	300	Hori	43.5	20.6	
132.600	38.1	QP	13.7	-20.9	30.9	3	100	Vert	43.5	12.6	
133.050	36.2	QP	13.7	-20.9	29.0	117	300	Hori	43.5	14.5	
177.599	38.5	QP	16.4	-20.4	34.5	187	100	Vert	43.5	9.0	
178.049	43.1	QP	16.4	-20.3	39.2	107	300	Hori	43.5	4.3	
364.166	36.8	QP	16.8	-19.7	33.9	263	100	Hori	46.0	12.1	
364.166	37.6	QP	16.8	-19.7	34.7	162	100	Vert	46.0	11.3	
720.002	37.1	QP	20.7	-18.8	39.0	126	100	Hori	46.0	7.0	
720.002	37.5	QP	20.7	-18.8	39.4	301	100	Vert	46.0	6.6	

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HOR
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11g, Tx, Ch:Low, High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/01/19

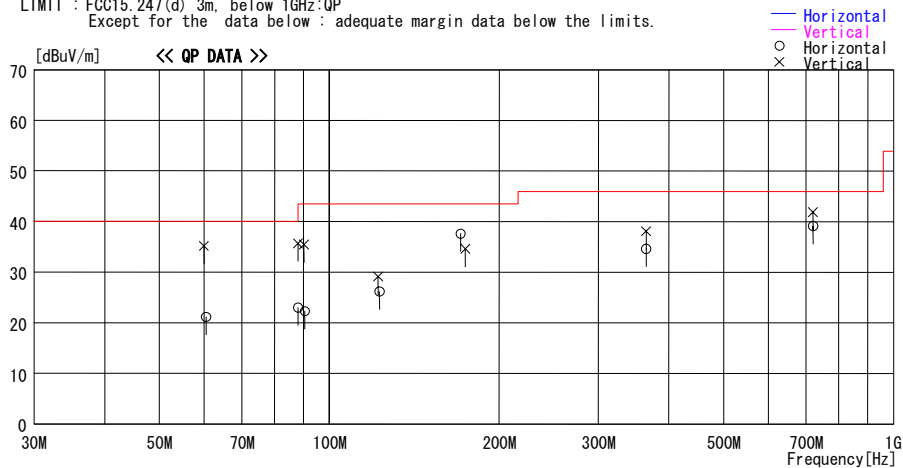
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 23deg.C. / 30%
Operator : Kenichi Adachi

Mode / Remarks : 11g Tx 2412MHz, 54Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver:

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Loss& Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
59.990	48.7	QP	8.3	-21.8	35.2	354	100	Vert.	40.0	4.8	
60.470	34.8	QP	8.2	-21.8	21.2	304	300	Hori.	40.0	18.8	
88.000	49.8	QP	7.3	-21.4	35.7	306	100	Vert.	40.0	4.3	
88.000	37.1	QP	7.3	-21.4	23.0	274	300	Hori.	40.0	17.0	
90.197	49.3	QP	7.6	-21.4	35.5	306	100	Vert.	43.5	8.0	
90.520	36.1	QP	7.6	-21.4	22.3	274	300	Hori.	43.5	21.2	
122.078	37.2	QP	13.0	-21.1	29.1	103	100	Vert.	43.5	14.4	
122.770	34.0	QP	13.1	-20.9	26.2	10	300	Hori.	43.5	17.3	
170.940	42.2	QP	15.9	-20.5	37.6	134	157	Hori.	43.5	5.9	
174.247	38.9	QP	16.1	-20.4	34.6	48	100	Vert.	43.5	8.9	
364.485	37.6	QP	16.8	-19.7	34.7	180	100	Hori.	46.0	11.4	
364.588	41.0	QP	16.8	-19.7	38.1	220	100	Vert.	46.0	7.9	
720.007	40.0	QP	20.7	-18.8	41.9	54	100	Vert.	46.0	4.1	
720.022	37.2	QP	20.7	-18.8	39.1	124	100	Hori.	46.0	6.9	

CHART:WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz-
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11g, Tx, Ch:Mid, High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/01/20

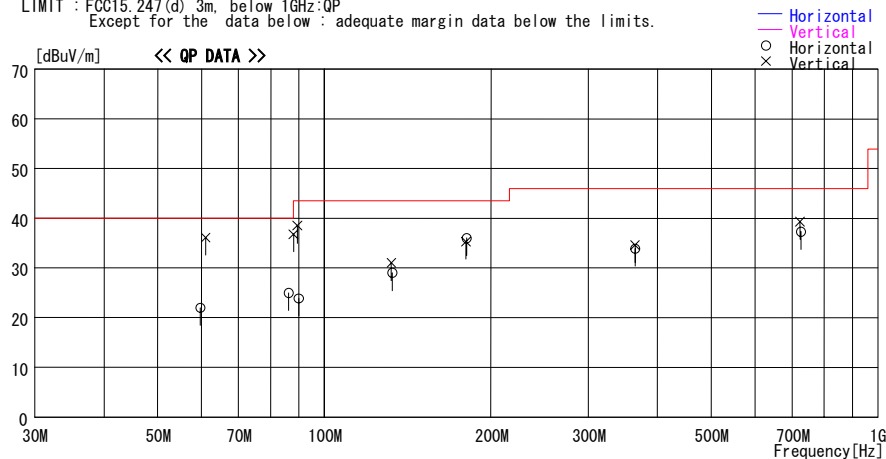
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 23deg.C. / 30%
Operator : Kenichi Adachi

Mode / Remarks: 11g Tx 2437MHz, 54Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver: Ant:Y

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss& Gain [dB]							
59.700	35.4	QP	8.4	-21.8	22.0	240	300	Hori.	40.0	18.0	
61.050	49.8	QP	8.1	-21.8	36.1	113	100	Vert.	40.0	3.9	
86.250	39.2	QP	7.2	-21.4	25.0	135	300	Hori.	40.0	15.0	
88.000	50.9	QP	7.3	-21.4	36.8	26	100	Vert.	40.0	3.2	
89.400	52.4	QP	7.5	-21.4	38.5	24	100	Vert.	43.5	5.0	
89.850	37.8	QP	7.5	-21.4	23.9	137	300	Hori.	43.5	19.6	
132.150	38.2	QP	13.7	-20.9	31.0	83	100	Vert.	43.5	12.5	
132.600	36.2	QP	13.7	-20.9	29.0	113	300	Hori.	43.5	14.5	
180.299	39.1	QP	16.5	-20.3	35.3	135	100	Vert.	43.5	8.2	
180.749	39.8	QP	16.5	-20.3	36.0	278	300	Hori.	43.5	7.5	
364.166	36.8	QP	16.8	-19.7	33.9	86	100	Hori.	46.0	12.1	
364.166	37.5	QP	16.8	-19.7	34.6	5	100	Vert.	46.0	11.4	
723.502	37.4	QP	20.7	-18.8	39.3	15	100	Vert.	46.0	6.7	
725.835	35.2	QP	20.8	-18.7	37.3	239	100	Hori.	46.0	8.7	

CHART:WITH FACTOR ANT TYPE : ~30MHz LOOP, 30~300MHz BICONICAL, 300MHz~1000MHz LOGPERIODIC, 1000MHz~ HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11g, Tx, Ch:High, High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/01/20

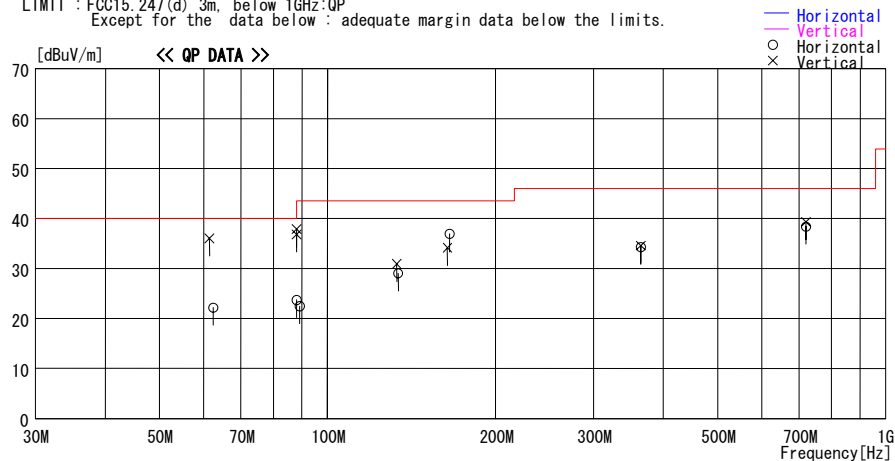
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 23deg.C. / 30%
Operator : Kenichi Adachi

Mode / Remarks: 11g Tx 2462MHz, 54Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver: Ant:Y

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Loss & Gain [dB]							
61.500	49.7	QP	8.1	-21.8	36.0	325	100	Vert.	40.0	4.0	
62.400	36.1	QP	7.9	-21.8	22.2	282	300	Hori.	40.0	17.8	
88.000	37.8	QP	7.3	-21.4	23.7	141	300	Hori.	40.0	16.3	
88.000	50.9	QP	7.3	-21.4	36.8	9	100	Vert.	40.0	3.2	
89.200	36.5	QP	7.4	-21.4	22.5	83	300	Hori.	43.5	21.0	
88.050	51.9	QP	7.4	-21.4	37.9	165	100	Vert.	43.5	5.6	
133.050	38.1	QP	13.7	-20.9	30.9	243	100	Vert.	43.5	12.6	
133.950	36.1	QP	13.8	-20.9	29.0	86	300	Hori.	43.5	14.5	
164.099	39.1	QP	15.5	-20.5	34.1	124	100	Vert.	43.5	9.4	
165.449	41.8	QP	15.6	-20.5	36.9	299	300	Hori.	43.5	6.6	
364.166	37.2	QP	16.8	-19.7	34.3	119	100	Hori.	46.0	11.7	
364.166	37.5	QP	16.8	-19.7	34.6	132	100	Vert.	46.0	11.4	
720.002	36.5	QP	20.7	-18.8	38.4	150	100	Hori.	46.0	7.6	
720.002	37.4	QP	20.7	-18.8	39.3	29	100	Vert.	46.0	6.7	

CHART: WITH FACTOR ANT TYPE : -30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz-
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11a, Tx, Ch:165 (5825MHz), High power

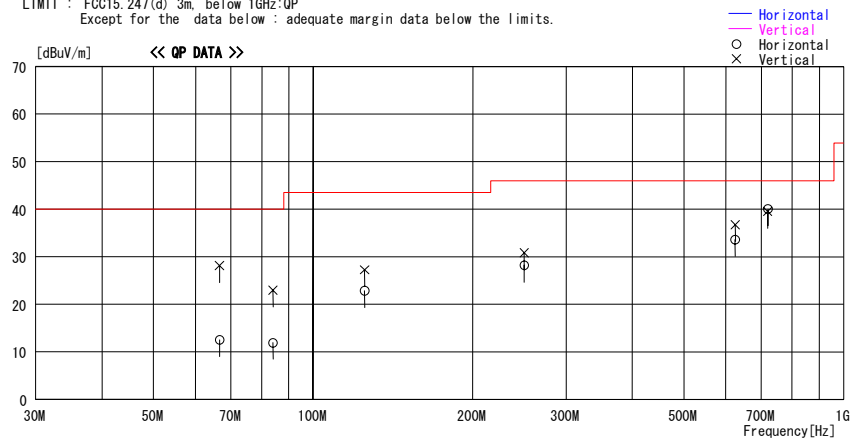
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/01/29

Company : OMRON Corporation Report No. : 27DE0139-HO
Kind of EUT : FA Wireless LAN Unit Power : DC 24V
Model No. : WE70-AP Temp./Humi. : 20deg.C. / 29%
Serial No. : 279651000201 Operator : Kenichi Adachi

Mode / Remarks : 11a Tx 5825MHz(ch165), 54Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver: Ant:Y

LIMIT : FCC15.247(d) 3m. below 1GHz:QP
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna		Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor	Gain							
			[dB/m]	[dB]							
66.643	25.0	QP	7.3	-19.8	12.5	335	300	Hori.	40.0	27.5	
66.643	40.6	QP	7.3	-19.8	28.1	55	109	Vert.	40.0	11.9	
83.989	24.4	QP	7.0	-19.5	11.9	254	296	Hori.	40.0	28.1	
83.989	35.5	QP	7.0	-19.5	23.0	352	121	Vert.	40.0	17.0	
124.996	28.5	QP	13.2	-18.8	22.9	176	283	Hori.	43.5	20.6	
124.996	32.8	QP	13.2	-18.8	27.2	81	101	Vert.	43.5	16.3	
249.992	28.3	QP	16.8	-16.9	28.2	215	201	Hori.	46.0	17.8	
249.992	30.9	QP	16.8	-16.9	30.8	141	102	Vert.	46.0	15.2	
624.072	29.0	QP	19.8	-15.2	33.6	18	147	Hori.	46.0	12.4	
624.979	32.1	QP	19.8	-15.2	36.7	2	103	Vert.	46.0	9.3	
720.084	33.6	QP	21.1	-14.6	40.1	29	133	Hori.	46.0	5.9	
720.005	33.0	QP	21.1	-14.6	39.5	51	167	Vert.	46.0	6.5	

CHART: WITH FACTOR ANT TYPE: -30MHz: LOOP, 30-300MHz: BICONICAL, 300MHz-1000MHz: LOGPERIODIC, 1000MHz-: HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11b/g, Rx, Ch:Mid

DATA OF RADIATED EMISSION TEST

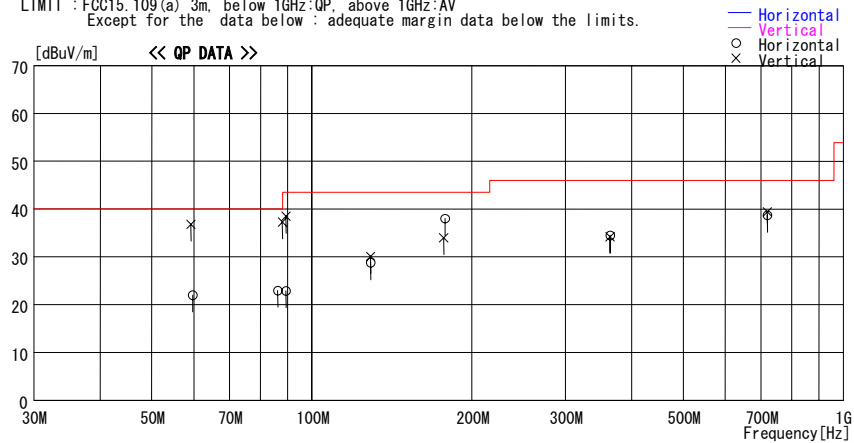
UL Apex Co., Ltd. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2007/01/20

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 279651000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 23deg. C. / 30%
Operator : Kenichi Adachi

Mode / Remarks: 11b / 11g Rx 2437MHz, ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver: Ant:Y

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna Factor	Loss	Level	Angle	Height	Polar.	Limit	Margin	Comment
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
59.250	50.2	QP	8.4	-21.8	36.8	23	100	Vert	40.0	3.2	
59.700	35.4	QP	8.4	-21.8	22.0	257	300	Hori	40.0	18.0	
86.250	37.2	QP	7.2	-21.4	23.0	91	300	Hori	40.0	17.0	
88.000	51.4	QP	7.3	-21.4	37.3	87	100	Vert	40.0	2.7	
89.400	36.8	QP	7.5	-21.4	22.9	65	300	Hori	43.5	20.6	
89.400	52.4	QP	7.5	-21.4	38.5	36	100	Vert	43.5	5.0	
129.000	36.2	QP	13.5	-20.9	28.8	78	300	Hori	43.5	14.7	
129.000	37.5	QP	13.5	-20.9	30.1	11	100	Vert	43.5	13.4	
177.149	38.1	QP	16.3	-20.4	34.0	76	100	Vert	43.5	9.5	
178.049	41.9	QP	16.4	-20.3	38.0	82	300	Hori	43.5	5.5	
364.166	37.4	QP	16.8	-19.7	34.5	71	100	Hori	46.0	11.5	
364.166	37.1	QP	16.8	-19.7	34.2	152	100	Vert	46.0	11.8	
720.002	36.8	QP	20.7	-18.8	38.7	149	100	Hori	46.0	7.3	
720.002	37.5	QP	20.7	-18.8	39.4	301	100	Vert	46.0	6.6	

CHART: WITH FACTOR ANT TYPE : 30MHz LOOP, 30-300MHz BICONICAL, 300MHz-1000MHz LOGPERIODIC, 1000MHz- HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Dual Band Diversity Ant., 11a, Rx, Ch:165 (5825MHz)

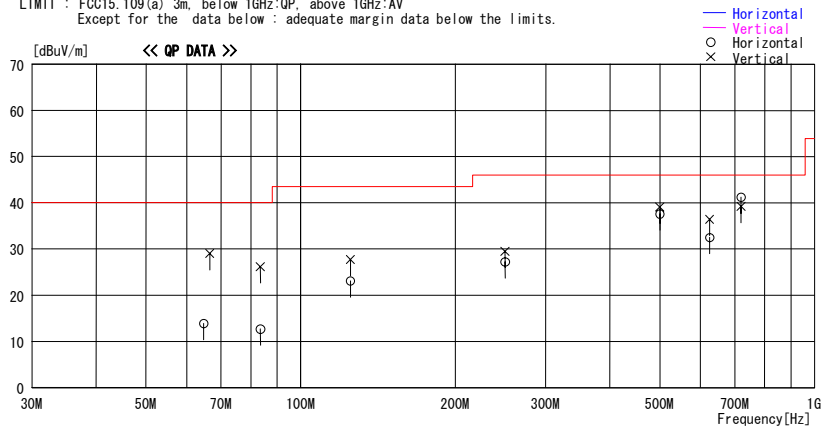
DATA OF RADIATED EMISSION

UL Apex Co., Ltd. Head Office EMC Lab. No.1 Semi Anechoic Chamber
Date : 2007/01/29

Company : OMRON Corporation Report No. : 27DE0139-HO
Kind of EUT : FA Wireless LAN Unit Power : DC 24V
Model No. : WE70-AP Temp./Humi. : 20deg.C. / 29%
Serial No. : 279651000201 Operator : Kenichi Adachi

Mode / Remarks : 11a Rx 5825MHz, ANT:A(Worst), Worst-axis: EUT:X, Hor: Ant:X, Ver: Ant:Y

LIMIT : FCC15.109(a) 3m, below 1GHz:QP, above 1GHz:AV
Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss&	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
64.734	26.2	QP	7.6	-19.9	13.9	335	259	Hori.	40.0	26.1	
66.539	41.5	QP	7.3	-19.8	29.0	68	100	Vert.	40.0	11.0	
83.534	25.2	QP	7.0	-19.5	12.7	96	319	Hori.	40.0	27.3	
83.534	38.7	QP	7.0	-19.5	26.2	123	100	Vert.	40.0	13.8	
124.970	28.7	QP	13.2	-18.8	23.1	197	253	Hori.	43.5	20.4	
124.970	33.3	QP	13.2	-18.8	27.7	307	100	Vert.	43.5	15.8	
249.971	27.3	QP	16.8	-16.9	27.2	87	303	Hori.	46.0	18.8	
249.971	29.6	QP	16.8	-16.9	29.5	152	100	Vert.	46.0	16.5	
499.982	35.5	QP	18.6	-16.5	37.6	44	100	Hori.	46.0	8.4	
499.982	37.0	QP	18.6	-16.5	39.1	67	133	Vert.	46.0	6.9	
624.959	27.9	QP	19.8	-15.2	32.5	294	136	Hori.	46.0	13.5	
624.959	31.8	QP	19.8	-15.2	36.4	11	100	Vert.	46.0	9.6	
719.987	34.7	QP	21.1	-14.6	41.2	46	114	Hori.	46.0	4.8	
719.987	32.7	QP	21.1	-14.6	39.2	57	159	Vert.	46.0	6.8	

CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz-:HORN
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Magnetic Pedestal Ant., 11b, Tx, Ch:Mid, High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/03/01

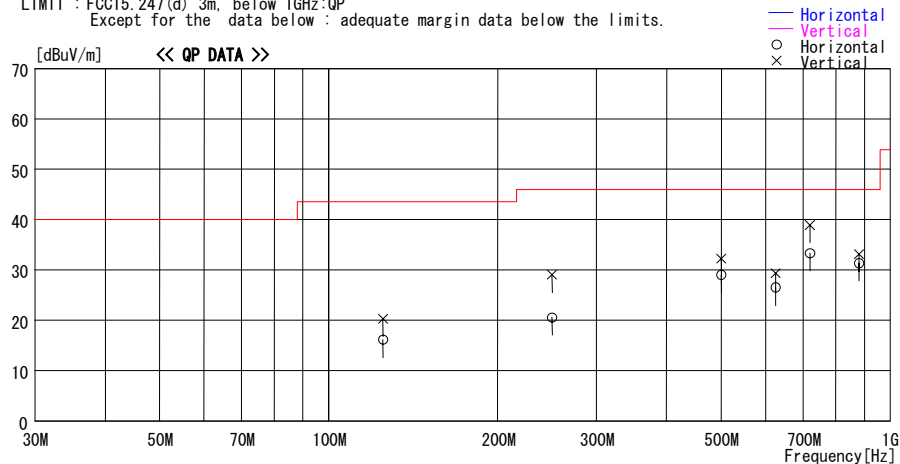
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 2796510000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 25deg.C. / 32%
Operator : Motoya Imura

Mode / Remarks: 11b Tx 2437MHz, 11Mbps(Worst), ANT:A(Worst),Worst-axis: EUT:X, Hor:ANT:X, Ver:ANT:Y

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Loss& Gain							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
125.000	26.0	QP	13.5	-23.4	16.1	229	150	Hori.	43.5	27.4	
125.000	30.2	QP	13.5	-23.4	20.3	330	120	Vert	43.5	23.2	
250.009	25.6	QP	17.2	-22.2	20.6	120	326	Hori.	46.0	25.4	
250.009	34.0	QP	17.2	-22.2	29.0	119	100	Vert	46.0	17.0	
500.008	30.2	QP	19.5	-20.7	29.0	164	100	Hori.	46.0	17.0	
500.008	33.4	QP	19.5	-20.7	32.2	169	100	Vert	46.0	13.8	
625.004	29.2	QP	20.3	-20.2	29.3	218	100	Vert	46.0	16.7	
625.010	26.4	QP	20.3	-20.2	26.5	164	100	Hori.	46.0	19.5	
720.007	31.4	QP	21.5	-19.6	33.3	352	232	Hori.	46.0	12.7	
720.007	37.0	QP	21.5	-19.6	38.9	180	100	Vert	46.0	7.1	
880.000	26.2	QP	23.3	-18.2	31.3	170	262	Hori.	46.0	14.7	
880.000	28.0	QP	23.3	-18.2	33.1	189	132	Vert	46.0	12.9	

CHART:WITH FACTOR ANT TYPE: -30MHz:LOOP, 30-300MHz:BICONICAL, 300MHz-1000MHz:LOGPERIODIC, 1000MHz:-HORN
CALCULATION:RESULT = READING + ANT FACTOR + LOSS(CABLE+ATTEN.) - GAIN(AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Magnetic Pedestal Ant., 11g, Tx, Ch:Mid, High power

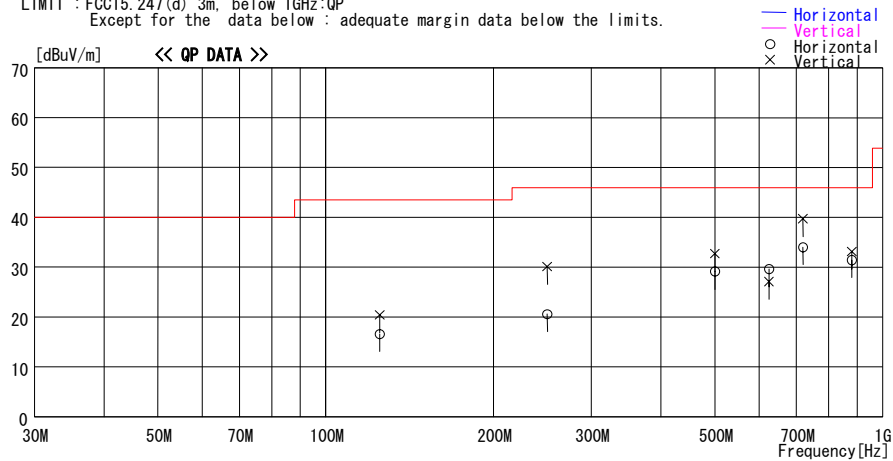
DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/03/02

Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 2796510000201
Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 25deg.C. / 32%
Operator : Motoya Imura

Mode / Remarks: 11g Tx 2437MHz, 54Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor:ANT:X,

LIMIT : FCC15.247(d) 3m, below 1GHz:QP
Except for the data below : adequate margin data below the limits.



Frequency	Reading	DET	Antenna		Level	Angle	Height	Polar.	Limit	Margin	Comment
			Factor	Loss							
[MHz]	[dBuV]		[dB/m]	[dB]	[dBuV/m]	[Deg]	[cm]		[dBuV/m]	[dB]	
125.000	26.5	QP	13.5	-23.4	16.6	220	140	Hori.	43.5	26.9	
125.000	30.3	QP	13.5	-23.4	20.4	330	120	Vert.	43.5	23.1	
250.012	25.6	QP	17.2	-22.2	20.6	139	300	Hori.	46.0	25.4	
250.012	35.1	QP	17.2	-22.2	30.1	229	100	Vert.	46.0	15.9	
500.000	30.3	QP	19.5	-20.7	29.1	160	100	Hori.	46.0	16.9	
500.000	33.9	QP	19.5	-20.7	32.7	177	100	Vert.	46.0	13.3	
625.011	29.5	QP	20.3	-20.2	29.6	218	100	Hori.	46.0	16.4	
625.015	27.0	QP	20.3	-20.2	27.1	180	230	Vert.	46.0	18.9	
720.002	32.1	QP	21.5	-19.6	34.0	358	100	Hori.	46.0	12.0	
720.002	37.8	QP	21.5	-19.6	39.7	176	100	Vert.	46.0	6.3	
880.010	26.3	QP	23.3	-18.2	31.4	177	250	Hori.	46.0	14.6	
880.010	28.0	QP	23.3	-18.2	33.1	180	100	Vert.	46.0	12.9	

CHART: WITH FACTOR ANT TYPE: ~30MHz: LOOP, 30~300MHz: BICONICAL, 300MHz~1000MHz: LOGPERIODIC, 1000MHz~
CALCULATION: RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (below 1GHz)
Magnetic Pedestal Ant., 11a, Tx, Ch:165 (5825MHz) , High power

DATA OF RADIATED EMISSION TEST

UL Apex Co., Ltd. Head Office EMC Lab. No.4 Semi Anechoic Chamber
Date : 2007/03/02

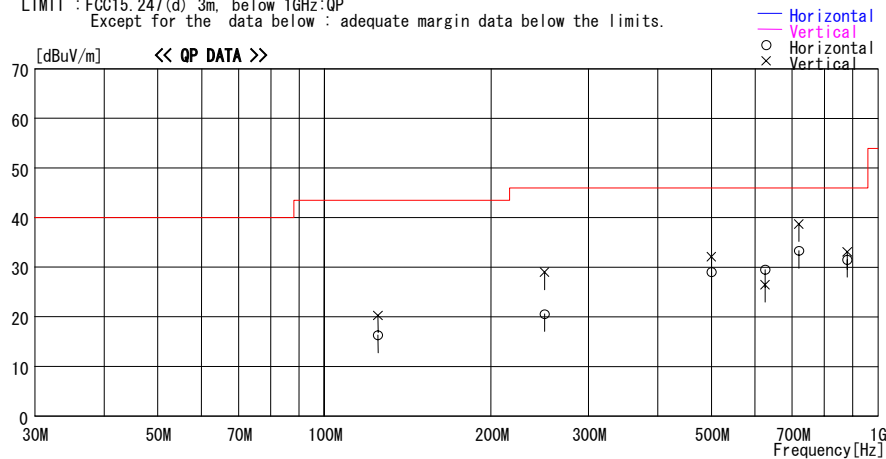
Company : OMRON Corporation
Kind of EUT : FA Wireless LAN Unit
Model No. : WE70-AP
Serial No. : 2796510000201

Report No. : 27DE0139-HO
Power : DC 24V
Temp./Humi. : 25deg.C. / 32%
Operator : Motoya Imura

Mode / Remarks: 11a Tx 5825MHz, 54Mbps(Worst), ANT:A(Worst), Worst-axis: EUT:X, Hor:ANT:X, Ver:ANT:Y

LIMIT : FCC15.247(d) 3m, below 1GHz:QP

Except for the data below : adequate margin data below the limits.



Frequency [MHz]	Reading [dBuV]	DET	Antenna	Loss	Level [dBuV/m]	Angle [Deg]	Height [cm]	Polar.	Limit [dBuV/m]	Margin [dB]	Comment
			Factor [dB/m]	Gain [dB]							
125.007	26.2	QP	13.5	-23.4	16.3	229	300	Hori.	43.5	27.2	
125.007	30.2	QP	13.5	-23.4	20.3	320	133	Vert.	43.5	23.2	
250.006	25.6	QP	17.2	-22.2	20.6	120	122	Hori.	46.0	25.4	
250.006	34.0	QP	17.2	-22.2	29.0	74	320	Vert.	46.0	17.0	
500.000	30.2	QP	19.5	-20.7	29.0	160	110	Hori.	46.0	17.0	
500.000	33.3	QP	19.5	-20.7	32.1	160	120	Vert.	46.0	13.9	
625.009	29.4	QP	20.3	-20.2	29.5	220	100	Hori.	46.0	16.5	
625.009	26.4	QP	20.3	-20.2	26.5	190	100	Vert.	46.0	19.5	
720.010	31.4	QP	21.5	-19.6	33.3	330	240	Hori.	46.0	12.7	
720.010	36.8	QP	21.5	-19.6	38.7	209	100	Vert.	46.0	7.3	
880.000	26.4	QP	23.3	-18.2	31.5	170	300	Hori.	46.0	14.5	
880.001	28.0	QP	23.3	-18.2	33.1	180	130	Vert.	46.0	12.9	

CHART:WITH FACTOR ANT TYPE: <30MHz>:LOOP, <30-300MHz>:BICONICAL, <300MHz-1000MHz>:LOGPERIODIC, <1000MHz->:HOI
CALCULATION:RESULT = READING + ANT FACTOR + LOSS (CABLE+ATTEN.) - GAIN (AMP)

*The limit is rounded down to one decimal place. *The test result is round off to one or two decimal places, so some differences might be observed.

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11b, Tx, Ch:Low, Ant:A, High power

UL-Apex Co., Ltd.

Company	OMRON Corporation	Head Office EMC Lab. No.3 and No.2 Anechoic Chamber	
Equipment	FA Wireless LAN Unit	Regulation	FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Model	WE70-AP	Test Distance	3m (below 10GHz), 1m (above 10GHz)
S/N	279651000201	Date	01/21/2007 01/24/2007
Power	DC 24V	Temperature	22 deg.C. 23 deg.C.
Mode	11b Tx 2412MHz, 11Mbps (Worst)	Humidity	40 % 30 %
EUT-Axis	(Worst) H: X-axis, V: X-axis	Engineer	Makoto Kosaka Makoto Kosaka
Ant-Axis	(Worst) H: X-axis, V: Y-axis		(below 10GHz, No3AC) (above 10GHz, No.2AC)

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

No.	FREQ	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
	[MHz]	[dBuV]		[dBuV/m]		[dBuV/m]		[dBuV/m]		[dB]		
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	49.3	47.5	29.1	32.8	2.2	0.0	47.8	46.0	73.9	26.1	27.9
2 *	2400.0	68.5	65.5	29.1	32.8	2.2	0.0	67.0	64.0	73.9	-	-
3	4824.0	40.7	40.6	33.4	31.6	3.5	0.1	46.1	46.0	73.9	27.8	27.9
4	7236.0	41.3	40.8	37.3	32.1	4.3	0.4	51.2	50.7	73.9	22.7	23.2
5	9648.0	42.4	41.7	39.5	33.1	5.0	0.7	54.5	53.8	73.9	19.4	20.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	73.9	-	-
7	14472.0	-	-	-	-	-	-	-	-	73.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	73.9	-	-
9	19296.0	-	-	-	-	-	-	-	-	73.9	-	-
10	21708.0	-	-	-	-	-	-	-	-	73.9	-	-
11	24120.0	47.8	47.4	39.1	30.4	10.4	0.0	57.4	57.0	73.9	16.5	16.9

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	38.1	36.0	29.1	32.8	2.2	0.0	36.6	34.5	53.9	17.3	19.4
2 *	2400.0	59.9	57.8	29.1	32.8	2.2	0.0	58.4	56.3	53.9	-	-
3	4824.0	28.8	28.4	33.4	31.6	3.5	0.1	34.2	33.8	53.9	19.7	20.1
4	7236.0	29.5	29.5	37.3	32.1	4.3	0.4	39.4	39.4	53.9	14.5	14.5
5	9648.0	30.5	30.3	39.5	33.1	5.0	0.7	42.6	42.4	53.9	11.3	11.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	53.9	-	-
7	14472.0	-	-	-	-	-	-	-	-	53.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	53.9	-	-
9	19296.0	-	-	-	-	-	-	-	-	53.9	-	-
10	21708.0	-	-	-	-	-	-	-	-	53.9	-	-
11	24120.0	35.7	35.6	39.1	30.4	10.4	0.0	45.3	45.2	53.9	8.6	8.7

* 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	103.1	100.3	29.1	32.8	2.2	0.0	101.6	98.8	-	-	-
2	2400.0	61.4	59.5	29.1	32.8	2.2	0.0	59.9	58.0	Funda-20dB	21.7	20.8

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11b, Tx, Ch:Mid, Ant:A, High power

UL-Apex Co.,Ltd.

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b Tx 2437MHz, 11Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Head Office EMC Lab. No.3 and No.2 Anechoic Chamber
Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 01/21/2007 01/23/2007
Temperature 22 deg.C. 23 deg.C.
Humidity 40 % 30 %
Engineer Makoto Kosaka Makoto Kosaka
(below 10GHz, No3AC) (above 10GHz, No.2AC)

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
		[dBuV]										
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	41.7	40.4	33.5	31.6	3.5	0.0	47.1	45.8	73.9	26.8	28.1
2	7311.0	40.6	40.6	37.4	32.2	4.3	0.4	50.5	50.5	73.9	23.4	23.4
3	9748.0	42.9	42.6	39.6	33.1	5.0	0.7	55.1	54.8	73.9	18.8	19.1
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	73.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	73.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	73.9	-	-
7	19496.0	-	-	-	-	-	-	-	-	73.9	-	-
8	21933.0	-	-	-	-	-	-	-	-	73.9	-	-
9	24370.0	47.9	47.4	39.1	30.5	10.6	0.0	57.6	57.1	73.9	16.3	16.8

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	28.9	28.3	33.5	31.6	3.5	0.0	34.3	33.7	53.9	19.6	20.2
2	7311.0	29.1	29.2	37.4	32.2	4.3	0.4	39.0	39.1	53.9	14.9	14.8
3	9748.0	30.5	30.9	39.6	33.1	5.0	0.7	42.7	43.1	53.9	11.2	10.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	53.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	53.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	53.9	-	-
7	19496.0	-	-	-	-	-	-	-	-	53.9	-	-
8	21933.0	-	-	-	-	-	-	-	-	53.9	-	-
9	24370.0	34.9	34.9	39.1	30.5	10.6	0.0	44.6	44.6	53.9	9.3	9.3

Test Distance 1.0m : Distance Factor(Dfac) = $20\log(3/1.0) = 9.54$ dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11b, Tx, Ch:High, Ant:A, High power

UL-Apex Co.,Ltd.

Head Office EMC Lab. No.3 and No.2 Anechoic Chamber

Company	OMRON Corporation	Regulation	FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Equipment	FA Wireless LAN Unit	Test Distance	3m (below 10GHz), 1m (above 10GHz)
Model	WE70-AP	Date	01/21/2007 01/23/2007
S/N	279651000201	Temperature	22 deg.C. 23 deg.C.
Power	DC 24V	Humidity	40 % 30 %
Mode	11b Tx 2462MHz, 11Mbps (Worst)	Engineer	Makoto Kosaka Makoto Kosaka
EUT-Axis	(Worst) H: X-axis, V: X-axis		(below 10GHz, No3AC) (above 10GHz, No.2AC)
Ant-Axis	(Worst) H: X-axis, V: Y-axis		

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	50.1	49.1	29.2	32.7	2.3	0.0	48.9	47.9	73.9	25.0	26.0
2	4924.0	42.3	43.1	33.6	31.6	3.5	0.0	47.8	48.6	73.9	26.1	25.3
3	7386.0	41.4	41.7	37.5	32.2	4.3	0.5	51.5	51.8	73.9	22.4	22.1
4	9848.0	43.2	44.1	39.7	33.2	5.0	0.7	55.4	56.3	73.9	18.5	17.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	73.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	73.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	73.9	-	-
8	19696.0	-	-	-	-	-	-	-	-	73.9	-	-
9	22158.0	-	-	-	-	-	-	-	-	73.9	-	-
10	24620.0	48.4	48.3	39.2	30.6	10.8	0.0	58.3	58.2	73.9	15.6	15.7

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	38.5	37.5	29.2	32.7	2.3	0.0	37.3	36.3	53.9	16.6	17.6
2	4924.0	30.3	30.7	33.6	31.6	3.5	0.0	35.8	36.2	53.9	18.1	17.7
3	7386.0	30.6	30.7	37.5	32.2	4.3	0.5	40.7	40.8	53.9	13.2	13.1
4	9848.0	32.1	32.0	39.7	33.2	5.0	0.7	44.3	44.2	53.9	9.6	9.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	53.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	53.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	53.9	-	-
8	19696.0	-	-	-	-	-	-	-	-	53.9	-	-
9	22158.0	-	-	-	-	-	-	-	-	53.9	-	-
10	24620.0	35.6	35.6	39.2	30.6	10.8	0.0	45.5	45.5	53.9	8.4	8.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11g, Tx, Ch:Low, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company	OMRON Corporation	Regulation	FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Equipment	FA Wireless LAN Unit	Test Distance	3m (below 10GHz), 1m (above 10GHz)
Model	WE70-AP	Date	01/19/2007 01/23/2007
S/N	279651000201	Temperature	23 deg.C.
Power	DC 24V	Humidity	30 %
Mode	11g Tx 2412MHz, 54Mbps (Worst)	Engineer	Kenichi Adachi
EUT-Axis	(Worst) H: X-axis, V: X-axis		(below 10GHz)
Ant-Axis	(Worst) H: X-axis, V: Y-axis		(above 10GHz)

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2389.9	64.9	59.4	30.6	32.3	3.0	0.0	66.2	60.7	73.9	7.7	13.2
2 *	2400.0	87.0	81.8	30.6	32.3	3.1	0.0	88.4	83.2	73.9	-	-
3	4824.0	43.2	43.4	35.8	31.6	4.0	0.3	51.7	51.9	73.9	22.2	22.0
4	7236.0	43.4	43.5	37.6	31.4	5.0	0.5	55.1	55.2	73.9	18.8	18.7
5	9648.0	43.4	43.5	36.6	31.9	6.1	0.4	54.6	54.7	73.9	19.3	19.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	73.9	-	-
7	14472.0	-	-	-	-	-	-	-	-	73.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	73.9	-	-
9	19296.0	-	-	-	-	-	-	-	-	73.9	-	-
10	21708.0	-	-	-	-	-	-	-	-	73.9	-	-
11	24120.0	48.1	48.0	39.1	30.4	10.4	0.0	57.7	57.6	73.9	16.2	16.3

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2389.9	46.8	41.7	30.6	32.3	3.0	0.0	48.1	43.0	53.9	5.8	10.9
2 *	2400.0	59.5	54.6	30.6	32.3	3.1	0.0	60.9	56.0	53.9	-	-
3	4824.0	30.2	30.3	35.8	31.6	4.0	0.3	38.7	38.8	53.9	15.2	15.1
4	7236.0	30.1	30.3	37.6	31.4	5.0	0.5	41.8	42.0	53.9	12.1	11.9
5	9648.0	30.4	30.5	36.6	31.9	6.1	0.4	41.6	41.7	53.9	12.3	12.2
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
6	12060.0	-	-	-	-	-	-	-	-	53.9	-	-
7	14472.0	-	-	-	-	-	-	-	-	53.9	-	-
8	16884.0	-	-	-	-	-	-	-	-	53.9	-	-
9	19296.0	-	-	-	-	-	-	-	-	53.9	-	-
10	21708.0	-	-	-	-	-	-	-	-	53.9	-	-
11	24120.0	35.5	35.5	39.1	30.4	10.4	0.0	45.1	45.1	53.9	8.8	8.8

* 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	100.6	96.1	29.1	32.3	2.2	0.0	99.6	95.1	-	-	-
2	2400.0	71.7	64.9	29.1	32.3	2.2	0.0	70.7	63.9	Funda-20dB	8.9	11.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11g, Tx, Ch:Mid, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company	OMRON Corporation	Regulation	FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Equipment	FA Wireless LAN Unit	Test Distance	3m (below 10GHz), 1m (above 10GHz)
Model	WE70-AP	Date	01/19/2007 01/23/2007
S/N	279651000201	Temperature	23 deg.C. 23 deg.C.
Power	DC 24V	Humidity	30 % 30 %
Mode	11g Tx 2437MHz, 54Mbps (Worst)	Engineer	Kenichi Adachi Kenichi Adachi
EUT-Axis	(Worst) H: X-axis, V: X-axis		(below 10GHz) (above 10GHz)
Ant-Axis	(Worst) H: X-axis, V: Y-axis		

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

PK DETECT (RSW: 1MHz, VSW: 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	43.5	43.5	36.1	31.6	4.2	0.0	52.2	52.2	73.9	21.7	21.7
2	7311.0	43.6	43.4	37.8	31.4	5.1	0.4	55.5	55.3	73.9	18.4	18.6
3	9748.0	43.5	43.3	36.6	32.0	5.8	0.7	54.6	54.4	73.9	19.3	19.5
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	73.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	73.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	73.9	-	-
7	19496.0	-	-	-	-	-	-	-	-	73.9	-	-
8	21933.0	-	-	-	-	-	-	-	-	73.9	-	-
9	24370.0	47.5	47.7	39.1	30.5	10.6	0.0	57.2	57.4	73.9	16.7	16.5

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	4874.0	30.2	30.3	36.1	31.6	4.2	0.0	38.9	39.0	53.9	15.0	14.9
2	7311.0	30.2	30.1	37.8	31.4	5.1	0.4	42.1	42.0	53.9	11.8	11.9
3	9748.0	30.2	30.2	36.6	32.0	5.8	0.7	41.3	41.3	53.9	12.6	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	12185.0	-	-	-	-	-	-	-	-	53.9	-	-
5	14622.0	-	-	-	-	-	-	-	-	53.9	-	-
6	17059.0	-	-	-	-	-	-	-	-	53.9	-	-
7	19496.0	-	-	-	-	-	-	-	-	53.9	-	-
8	21933.0	-	-	-	-	-	-	-	-	53.9	-	-
9	24370.0	34.8	34.8	39.1	30.5	10.6	0.0	44.5	44.5	53.9	9.4	9.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11g, Tx, Ch:High, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11g Tx 2462MHz, 54Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 01/19/2007 01/23/2007
Temperature 23 deg.C. 23 deg.C.
Humidity 30 % 30 %
Engineer Kenichi Adachi Kenichi Adachi
(below 10GHz) (above 10GHz)

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
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	61.1	58.3	30.4	32.3	2.8	0.0	62.0	59.2	73.9	11.9	14.7
2	4924.0	43.6	43.7	36.4	31.6	4.3	0.0	52.7	52.8	73.9	21.2	21.1
3	7386.0	43.4	43.6	38.0	31.4	5.2	0.5	55.7	55.9	73.9	18.2	18.0
4	9848.0	43.6	43.5	36.5	32.0	5.8	0.7	54.6	54.5	73.9	19.3	19.4
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	73.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	73.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	73.9	-	-
8	19696.0	-	-	-	-	-	-	-	-	73.9	-	-
9	22158.0	-	-	-	-	-	-	-	-	73.9	-	-
10	24620.0	48.1	48.3	39.2	30.6	10.8	0.0	58.0	58.2	73.9	15.9	15.7

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
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]		[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	44.3	43.6	30.4	32.3	2.8	0.0	45.2	44.5	53.9	8.7	9.4
2	4924.0	30.4	30.3	36.4	31.6	4.3	0.0	39.5	39.4	53.9	14.4	14.5
3	7386.0	30.6	30.4	38.0	31.4	5.2	0.5	42.9	42.7	53.9	11.0	11.2
4	9848.0	30.4	30.3	36.5	32.0	5.8	0.7	41.4	41.3	53.9	12.5	12.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12310.0	-	-	-	-	-	-	-	-	53.9	-	-
6	14772.0	-	-	-	-	-	-	-	-	53.9	-	-
7	17234.0	-	-	-	-	-	-	-	-	53.9	-	-
8	19696.0	-	-	-	-	-	-	-	-	53.9	-	-
9	22158.0	-	-	-	-	-	-	-	-	53.9	-	-
10	24620.0	35.6	35.6	39.2	30.6	10.8	0.0	45.5	45.5	53.9	8.4	8.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)
Dual Band Diversity Ant., 11a, Tx, Ch:165 (5825MHz) , Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company	OMRON Corporation	Regulation	FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Equipment	FA Wireless LAN Unit	Test Distance	3m (below 10GHz), 1m (above 10GHz)
Model	WE70-AP	Date	01/24/2007 01/25/2007
S/N	279651000201	Temperature	23 deg.C. 23 deg.C.
Power	DC 24V	Humidity	30 % 30 %
Mode	11a Tx 5825MHz, 54Mbps (Worst)	Engineer	Kenichi Adachi Kenichi Adachi
EUT-Axis	(Worst) H: X-axis, V: X-axis		
Ant-Axis	(Worst) H: X-axis, V: Y-axis		

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3883.3	47.9	47.7	32.9	32.0	3.8	0.0	52.6	52.4	73.9	21.3	21.5
2	5850.0	57.5	52.8	36.6	31.4	4.5	0.0	67.2	62.5	73.9	6.7	11.4
3	7766.7	44.4	44.0	37.5	31.4	5.5	0.0	56.0	55.6	73.9	17.9	18.3
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	11650.0	48.5	48.4	39.0	31.1	6.5	0.7	54.1	54.0	73.9	19.8	19.9
5	17475.0	45.0	45.7	46.2	30.1	8.4	0.9	60.9	61.6	73.9	13.0	12.3
6	23300.0	48.4	48.6	39.5	30.7	9.6	0.0	57.3	57.5	73.9	16.6	16.4
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	29125.0	43.5	43.6	44.5	24.4	7.0	0.0	55.0	55.1	73.9	18.9	18.8
8	34950.0	41.8	41.7	44.1	24.3	7.7	0.0	53.7	53.6	73.9	20.2	20.3

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3883.3	39.8	39.7	32.9	32.0	3.8	0.0	44.5	44.4	53.9	9.4	9.5
2	5850.0	38.8	38.0	36.6	31.4	4.5	0.0	48.5	47.7	53.9	5.4	6.2
3	7766.7	32.7	32.5	37.5	31.4	5.5	0.0	44.3	44.1	53.9	9.6	9.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
4	11650.0	36.2	35.3	39.0	31.1	6.5	0.7	41.8	40.9	53.9	12.1	13.0
5	17475.0	32.0	31.9	46.2	30.1	8.4	0.9	47.9	47.8	53.9	6.0	6.1
6	23300.0	34.8	34.9	39.5	30.7	9.6	0.0	43.7	43.8	53.9	10.2	10.1
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
7	29125.0	31.3	31.4	44.5	24.4	7.0	0.0	42.8	42.9	53.9	11.1	11.0
8	34950.0	28.6	28.6	44.1	24.3	7.7	0.0	40.5	40.5	53.9	13.4	13.4

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Dual Band Diversity Ant., 11b/g, Rx, Ch:Mid, Ant:A

UL-Apex Co., Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b/g Rx 2437MHz, Ant A
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 01/23/2007
Temperature 23 deg.C.
Humidity 30 %
Engineer Kenichi Adachi

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

K-R DETECT (KRBW: 1MHz, VVBW: 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1063.5	50.0	50.7	23.1	33.7	2.0	0.0	41.4	42.1	73.9	32.5	31.8
2	2437.0	43.8	43.6	30.5	32.4	3.7	0.0	45.6	45.4	73.9	28.3	28.5

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1063.5	34.8	44.9	23.1	33.7	2.0	0.0	26.2	36.3	53.9	27.7	17.6
2	2437.0	30.9	30.9	30.5	32.4	3.7	0.0	32.7	32.7	53.9	21.2	21.2

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)
Dual Band Diversity Ant., 11a, Rx, Ch:165 (5825MHz), Ant:A

UL-Apex Co., Ltd.

Head Office EMC Lab. No.2 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11a Rx 5825MHz, Ant A
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 01/23/2007
Temperature 23 deg.C.
Humidity 30 %
Engineer Kenichi Adachi

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

K DEFECT (RdB, 1MHz, VdB, 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1199.9	50.7	50.1	23.4	33.6	1.9	0.0	42.4	41.8	73.9	31.5	32.1
2	3883.3	44.5	44.1	32.9	32.0	3.8	0.0	49.2	48.8	73.9	24.7	25.1
3	7766.4	44.0	43.7	37.5	31.4	5.5	0.0	55.6	55.3	73.9	18.3	18.6

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	1199.9	39.5	39.0	23.4	33.6	1.9	0.0	31.2	30.7	53.9	22.7	23.2
2	3883.3	34.0	33.8	32.9	32.0	3.8	0.0	38.7	38.5	53.9	15.2	15.4
3	7766.4	32.0	31.8	37.5	31.4	5.5	0.0	43.6	43.4	53.9	10.3	10.5

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (Band Edge only)
Magnetic Pedestal Ant., 11b, Tx, Ch:Low, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b Tx 2412MHz, 11Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/22/2007
Temperature 23 deg.C.
Humidity 34 %
Engineer Kenichi Adachi

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	51.2	48.0	26.6	32.7	2.1	0.0	47.2	44.0	73.9	26.7	29.9
2 *	2400.0	68.4	64.4	26.6	32.7	2.1	0.0	64.4	60.4	73.9	-	-

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	40.0	36.2	26.6	32.7	2.1	0.0	36.0	32.2	53.9	17.9	21.7
2 *	2400.0	60.5	56.9	26.6	32.7	2.1	0.0	56.5	52.9	53.9	-	-

* 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	102.9	101.3	26.7	32.7	2.1	0.0	99.0	97.4	-	-	-
2	2400.0	61.7	57.9	26.6	32.7	2.1	0.0	57.7	53.9	Funda-20dB	21.3	23.5

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Magnetic Pedestal Ant., 11b, Tx, Ch:Mid, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b Tx 2437MHz, 11Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/22/2007 03/01/2007
Temperature 23 deg.C. 24 deg.C.
Humidity 34 % 30 %
Engineer Kenichi Adachi Kenichi Adachi
(Below 10GHz) (Above 10GHz)

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3249.3	45.2	46.9	27.9	32.2	2.5	0.0	43.4	45.1	73.9	30.5	28.8
2	4874.0	44.2	45.4	31.0	31.5	3.2	1.0	47.9	49.1	73.9	26.0	24.8
3	7311.0	42.3	42.3	35.4	32.5	3.9	0.7	49.8	49.8	73.9	24.1	24.1
4	9748.0	42.2	42.1	37.6	33.1	4.8	0.5	52.0	51.9	73.9	21.9	22.0
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	-	-	-	-	-	-	-	-	73.9	-	-
6	14622.0	-	-	-	-	-	-	-	-	73.9	-	-
7	17059.0	43.0	43.9	40.6	30.0	8.7	1.1	53.9	54.8	73.9	20.0	19.1
8	19496.0	-	-	-	-	-	-	-	-	73.9	-	-
9	21933.0	-	-	-	-	-	-	-	-	73.9	-	-
10	24370.0	48.1	48.0	40.7	30.6	10.4	0.0	59.1	59.0	73.9	14.8	14.9

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3249.3	38.1	41.4	27.9	32.2	2.5	0.0	36.3	39.6	53.9	17.6	14.3
2	4874.0	30.7	31.8	31.0	31.5	3.2	1.0	34.4	35.5	53.9	19.5	18.4
3	7311.0	29.5	29.4	35.4	32.5	3.9	0.7	37.0	36.9	53.9	16.9	17.0
4	9748.0	29.3	29.4	37.6	33.1	4.8	0.5	39.1	39.2	53.9	14.8	14.7
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	-	-	-	-	-	-	-	-	53.9	-	-
6	14622.0	-	-	-	-	-	-	-	-	53.9	-	-
7	17059.0	32.3	32.2	40.6	30.0	8.7	1.1	43.2	43.1	53.9	10.7	10.8
8	19496.0	-	-	-	-	-	-	-	-	53.9	-	-
9	21933.0	-	-	-	-	-	-	-	-	53.9	-	-
10	24370.0	35.6	35.6	40.7	30.6	10.4	0.0	46.6	46.6	53.9	7.3	7.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (BandEdge only)
Magnetic Pedestal Ant., 11b, Tx, Ch:High, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b Tx 2462MHz, 11Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/22/2007
Temperature 23 deg.C.
Humidity 34 %
Engineer Kenichi Adachi

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

PK DETECT (RBW: 1MHz, VBW: 1MHz)												
No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit PK [dBuV/m]	MARGIN [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	50.7	49.5	26.8	32.6	2.2	0.0	47.1	45.9	73.9	26.8	28.0

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	39.4	37.4	26.8	32.6	2.2	0.0	35.8	33.8	53.9	18.1	20.1

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)(Band Edge only)
Magnetic Pedestal Ant., 11g, Tx, Ch:Low, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11g Tx 2412MHz, 54Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/22/2007
Temperature 23 deg.C.
Humidity 34 %
Engineer Kenichi Adachi

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	65.3	61.3	26.6	32.7	2.1	0.0	61.3	57.3	73.9	12.6	16.6
2 *	2400.0	85.4	84.4	26.6	32.7	2.1	0.0	81.4	80.4	73.9	-	-

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	48.8	45.9	26.6	32.7	2.1	0.0	44.8	41.9	53.9	9.1	12.0
2 *	2400.0	63.3	59.9	26.6	32.7	2.1	0.0	59.3	55.9	53.9	-	-

* 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	100.9	98.7	26.7	32.7	2.1	0.0	97.0	94.8	-	-	-
2	2400.0	71.5	69.1	26.6	32.7	2.1	0.0	67.5	65.1	Funda-20dB	9.5	9.7

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)
Magnetic Pedestal Ant., 11g, Tx, Ch:Mid, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11g Tx 2437MHz, 54Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/22/2007 03/01/2007
Temperature 23 deg.C. 24 deg.C.
Humidity 34 % 30 %
Engineer Kenichi Adachi Kenichi Adachi
(Below 10GHz) (Above 10GHz)

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3249.3	45.6	50.9	27.9	32.2	2.5	0.0	43.8	49.1	73.9	30.1	24.8
2	4874.0	43.4	42.5	31.0	31.5	3.2	1.0	47.1	46.2	73.9	26.8	27.7
3	7311.0	42.2	42.3	35.4	32.5	3.9	0.7	49.7	49.8	73.9	24.2	24.1
4	9748.0	42.1	42.2	37.6	33.1	4.8	0.5	51.9	52.0	73.9	22.0	21.9
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	-	-	-	-	-	-	-	-	73.9	-	-
6	14622.0	-	-	-	-	-	-	-	-	73.9	-	-
7	17059.0	44.5	44.4	40.6	30.0	8.7	1.1	55.4	55.3	73.9	18.5	18.6
8	19496.0	-	-	-	-	-	-	-	-	73.9	-	-
9	21933.0	-	-	-	-	-	-	-	-	73.9	-	-
10	24370.0	47.2	47.7	40.7	30.6	10.4	0.0	58.2	58.7	73.9	15.7	15.2

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3249.3	37.8	44.1	27.9	32.2	2.5	0.0	36.0	42.3	53.9	17.9	11.6
2	4874.0	30.6	29.9	31.0	31.5	3.2	1.0	34.3	33.6	53.9	19.6	20.3
3	7311.0	29.4	29.5	35.4	32.5	3.9	0.7	36.9	37.0	53.9	17.0	16.9
4	9748.0	29.3	29.3	37.6	33.1	4.8	0.5	39.1	39.1	53.9	14.8	14.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	12185.0	-	-	-	-	-	-	-	-	53.9	-	-
6	14622.0	-	-	-	-	-	-	-	-	53.9	-	-
7	17059.0	32.3	32.3	40.6	30.0	8.7	1.1	43.2	43.2	53.9	10.7	10.7
8	19496.0	-	-	-	-	-	-	-	-	53.9	-	-
9	21933.0	-	-	-	-	-	-	-	-	53.9	-	-
10	24370.0	35.7	35.7	40.7	30.6	10.4	0.0	46.7	46.7	53.9	7.2	7.2

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (Band Edge only)
Magnetic Pedestal Ant., 11g, Tx, Ch:High, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11g Tx 2462MHz, 54Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/22/2007
Temperature 23 deg.C.
Humidity 34 %
Engineer Kenichi Adachi

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

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	68.1	62.3	26.8	32.6	2.2	0.0	64.5	58.7	73.9	9.4	15.2

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

No.	FREQ [MHz]	S/A READING [dBuV]		ANT Factor [dB/m]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT [dBuV/m]		Limit AV [dBuV/m]	MARGIN [dB]	
		HOR	VER					HOR	VER		HOR	VER
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	50.3	45.4	26.8	32.6	2.2	0.0	46.7	41.8	53.9	7.2	12.1

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz)

Magnetic Pedestal Ant., 11a, Tx, Ch:165 (5825MHz), Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.3 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11a Tx 5825MHz, 54Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 02/26/2007
Temperature 23 deg.C.
Humidity 30 %
Engineer Kenichi Adachi

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3883.4	43.9	44.2	31.6	32.0	3.1	0.0	46.6	46.9	73.9	27.3	27.0
2	5725.0	47.0	47.3	33.9	31.9	3.8	0.0	52.8	53.1	73.9	21.1	20.8
3 *	5850.0	62.8	60.6	33.9	31.9	3.9	0.0	68.7	66.5	73.9	-	-
4	7766.7	42.5	43.3	37.9	32.5	4.4	0.0	52.3	53.1	73.9	21.6	20.8
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	48.9	44.8	39.1	32.7	5.6	0.7	52.1	48.0	73.9	21.8	25.9
6	17475.0	46.4	46.7	42.9	31.8	6.6	0.6	55.2	55.5	73.9	18.7	18.4
7	23300.0	47.2	47.1	38.4	32.1	7.8	0.0	51.8	51.7	73.9	22.1	22.2
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	29125.0	36.0	35.4	39.1	29.5	15.7	0.0	45.7	45.1	73.9	28.2	28.8
9	34950.0	40.6	40.7	41.6	28.0	17.0	0.0	55.6	55.7	73.9	18.3	18.2

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	3883.4	33.3	34.4	31.6	32.0	3.1	0.0	36.0	37.1	53.9	17.9	16.8
2	5725.0	33.7	33.5	33.9	31.9	3.8	0.0	39.5	39.3	53.9	14.4	14.6
3 *	5850.0	40.8	39.6	33.9	31.9	3.9	0.0	46.7	45.5	53.9	-	-
4	7766.7	30.3	30.5	37.9	32.5	4.4	0.0	40.1	40.3	53.9	13.8	13.6
Test distance 1meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
5	11650.0	33.2	31.5	39.1	32.7	5.6	0.7	36.4	34.7	53.9	17.5	19.2
6	17475.0	33.0	32.5	42.9	31.8	6.6	0.6	41.8	41.3	53.9	12.1	12.6
7	23300.0	33.9	34.0	38.4	32.1	7.8	0.0	38.5	38.6	53.9	15.4	15.3
Test distance 0.5meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss - Dfac												
8	29125.0	22.9	23.1	39.1	29.5	15.7	0.0	32.6	32.8	53.9	21.3	21.1
9	34950.0	28.0	28.1	41.6	28.0	17.0	0.0	43.0	43.1	53.9	10.9	10.8

* Reference data

20dBc(Fundamental) (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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	5825.0	95.5	95.9	33.9	31.9	3.9	0.0	101.4	101.8	-	-	-
3	5850.0	47.2	46.6	33.9	31.9	3.9	0.0	53.1	52.5	Funda-20dB	28.3	29.3

Test Distance 1.0m : Distance Factor(Dfac) = 20log(3/1.0) = 9.54 dB

Test Distance 0.5m : Distance Factor(Dfac) = 20log(3/0.5) = 15.56 dB

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (Band Edge only)
Magnetic Pedestal Ant. + extension cable of 5.0m, 11b, Tx, Ch:Low, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b Tx 2412MHz, 11Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 03/02/2007
Temperature 23 deg.C.
Humidity 36 %
Engineer Kenichi Adachi

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

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	50.1	48.1	26.6	32.7	2.1	0.0	46.1	44.1	73.9	27.8	29.8
2 *	2400.0	68.1	64.9	26.6	32.7	2.1	0.0	64.1	60.9	73.9	-	-

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	37.1	34.7	26.6	32.7	2.1	0.0	33.1	30.7	53.9	20.8	23.2
2 *	2400.0	58.0	55.3	26.6	32.7	2.1	0.0	54.0	51.3	53.9	-	-

* 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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	102.5	97.8	26.7	32.7	2.1	0.0	98.6	93.9	-	-	-
2	2400.0	60.5	57.8	26.6	32.7	2.1	0.0	56.5	53.8	Funda-20dB	22.1	20.1

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (Band Edge only)
Magnetic Pedestal Ant.+ extension cable of 5.0m, 11b, Tx, Ch:High, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11b Tx 2462MHz, 11Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 03/02/2007
Temperature 23 deg.C.
Humidity 36 %
Engineer Kenichi Adachi

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

KREDSST (REV. 11/02, VER. 01/03)												
No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit PK	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	62.2	60.2	26.8	32.6	2.2	0.0	58.6	56.6	73.9	15.3	17.3

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	42.0	42.0	26.8	32.6	2.2	0.0	38.4	38.4	53.9	15.5	15.5

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (Band Edge only)
Magnetic Pedestal Ant.+ extension cable of 5.0m, 11g, Tx, Ch:Low, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company OMRON Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000201
Power DC 24V
Mode 11g Tx 2412MHz, 54Mbps (Worst)
EUT-Axis (Worst) H: X-axis, V: X-axis
Ant-Axis (Worst) H: X-axis, V: Y-axis

Regulation FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Test Distance 3m (below 10GHz), 1m (above 10GHz)
Date 03/02/2007
Temperature 23 deg.C.
Humidity 36 %
Engineer Kenichi Adachi

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	69.7	65.8	26.6	32.7	2.1	0.0	65.7	61.8	73.9	8.2	12.1
2 *	2400.0	89.9	87.0	26.6	32.7	2.1	0.0	85.9	83.0	73.9	-	-

* Reference data

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2390.0	49.3	45.0	26.6	32.7	2.1	0.0	45.3	41.0	53.9	8.6	12.9
2 *	2400.0	64.4	60.7	26.6	32.7	2.1	0.0	60.4	56.7	53.9	-	-

* Reference data

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

No.	FREQ [MHz]	S/A READING		ANT Factor [dBrn]	AMP GAIN [dB]	CABLE LOSS [dB]	Hi-Pass Filter [dB]	RESULT		Limit 20dBc [dBrV/m]	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
		[dBrV]						[dBrV/m]			[dB]	[dB]
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
0	2412.0	101.5	98.7	26.7	32.7	2.1	0.0	97.6	94.8	-	-	-
2	2400.0	74.0	69.8	26.6	32.7	2.1	0.0	70.0	65.8	Funda-20dB	7.6	9.0

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

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(14.06.06)

Radiated Spurious Emission (above 1GHz) (Band Edge only)
Magnetic Pedestal Ant.+ extension cable of 5.0m, 11g, Tx, Ch:High, Ant:A, High power

UL-Apex Co., Ltd.

Head Office EMC Lab. No.4 Anechoic Chamber

Company	OMRON Corporation	Regulation	FCC Part15 Subpart C 15.247(d) / RSS-210 A8.5
Equipment	FA Wireless LAN Unit	Test Distance	3m (below 10GHz), 1m (above 10GHz)
Model	WE70-AP	Date	03/02/2007
S/N	279651000201	Temperature	23 deg.C.
Power	DC 24V	Humidity	36 %
Mode	11g Tx 2462MHz, 54Mbps (Worst)	Engineer	Kenichi Adachi
EUT-Axis	(Worst) H: X-axis, V: X-axis		
Ant-Axis	(Worst) H: X-axis, V: Y-axis		

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

WIRELESS (dBm, MHz, dBuV, dBm)												
No.	FREQ	S/A READING		ANT Factor	AMP GAIN	CABLE LOSS	Hi-Pass Filter	RESULT		Limit PK	MARGIN	
		HOR	VER					HOR	VER		HOR	VER
	[MHz]	[dBuV]		[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]		[dBuV/m]	[dB]	
Test distance 3meters RESULT=Reading + ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	63.3	57.6	26.8	32.6	2.2	0.0	59.7	54.0	73.9	14.2	19.9

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
		[dBuV]						[dBuV/m]			[dB]	
Test distance 3meters RESULT=Reading+ ANT Factor - Amp Gain + Cable Loss + Filter Loss												
1	2483.5	43.8	40.7	26.8	32.6	2.2	0.0	40.2	37.1	53.9	13.7	16.8

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

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

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

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Apex Co., Ltd.

Head Office EMC Lab.

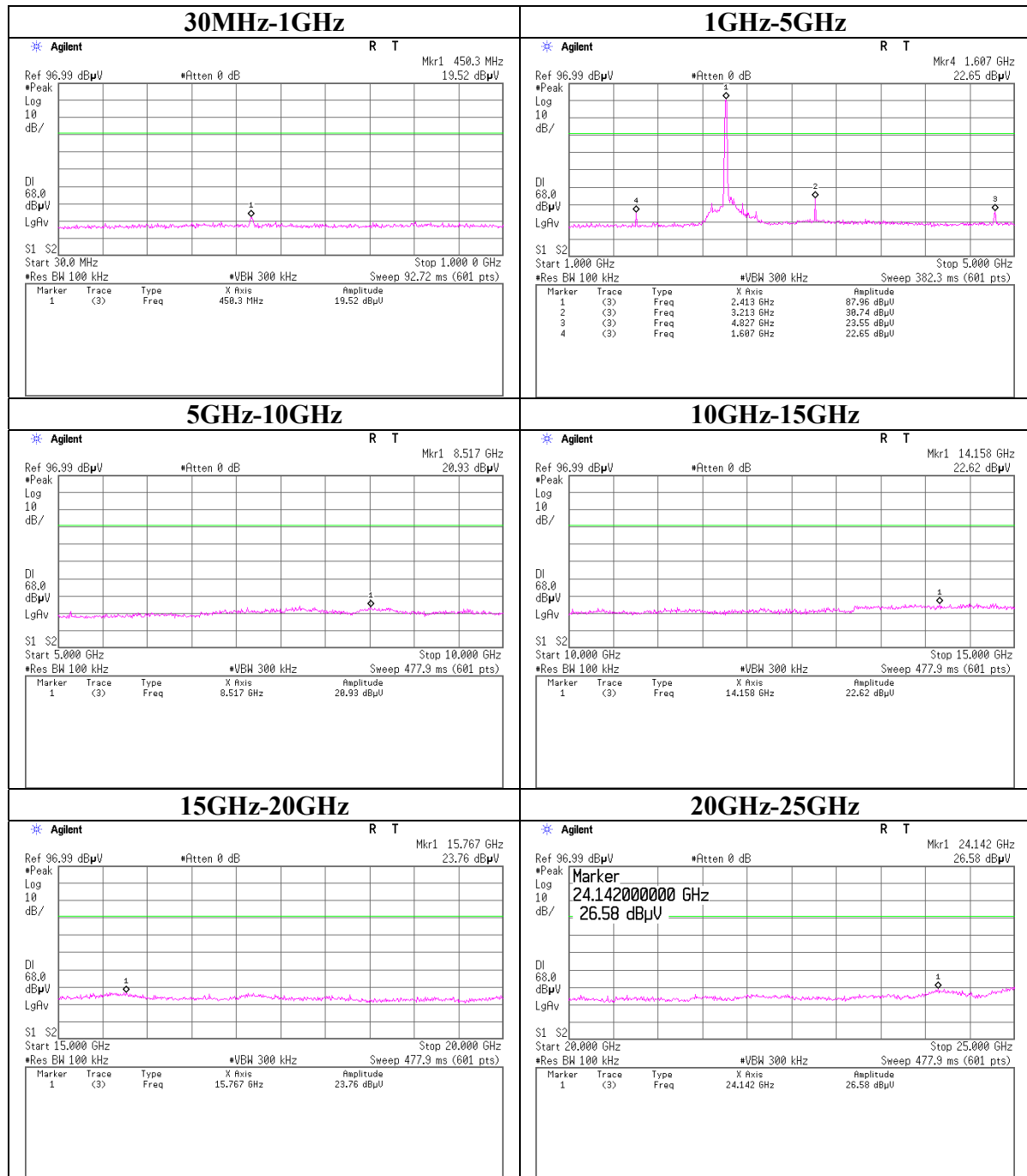
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8116

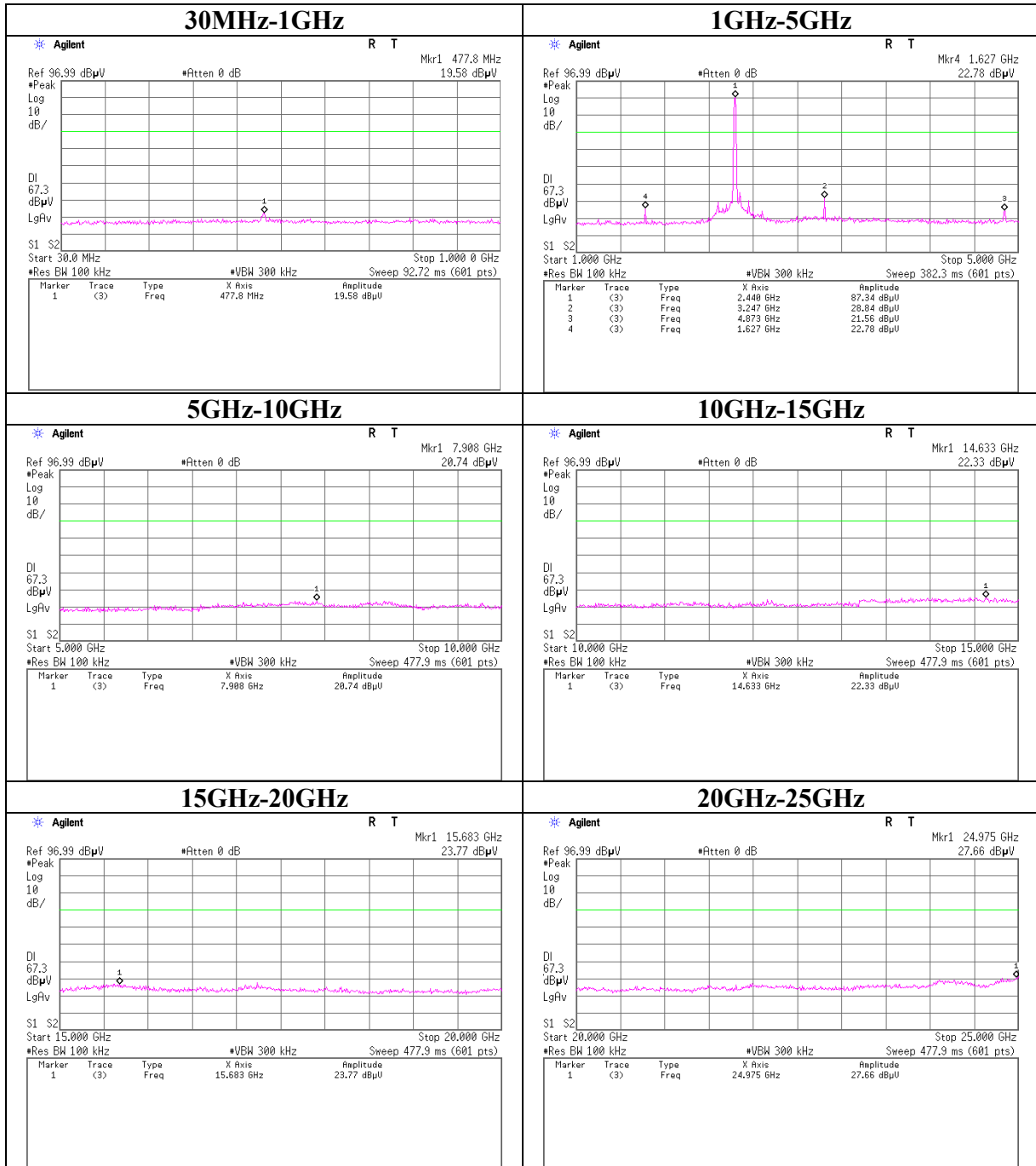
Facsimile : +81 596 24 8124

MF060b(14.06.06)

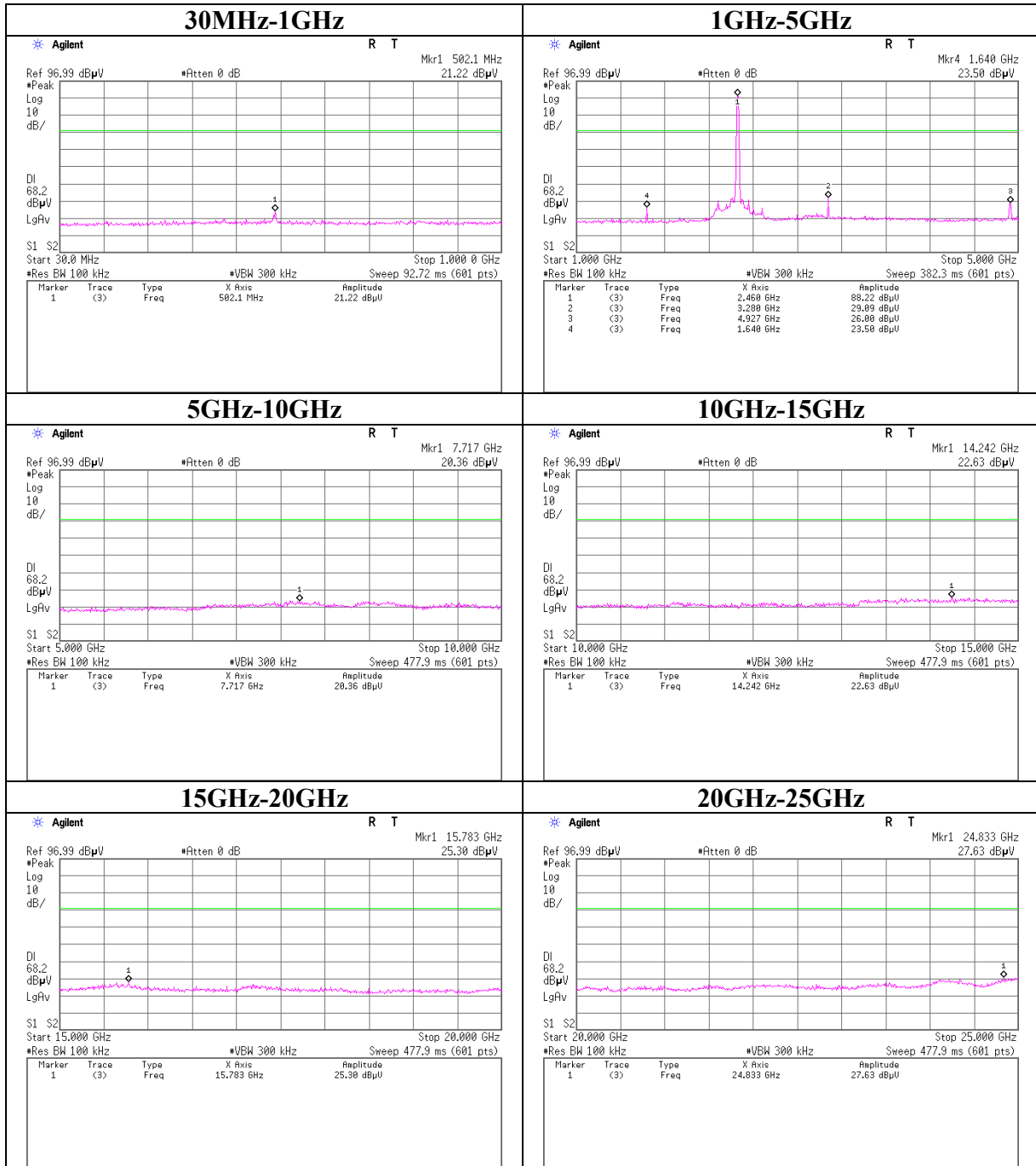
Conducted Spurious Emission
11b (11Mbps) Tx, Ch: Low, ANT A, High power



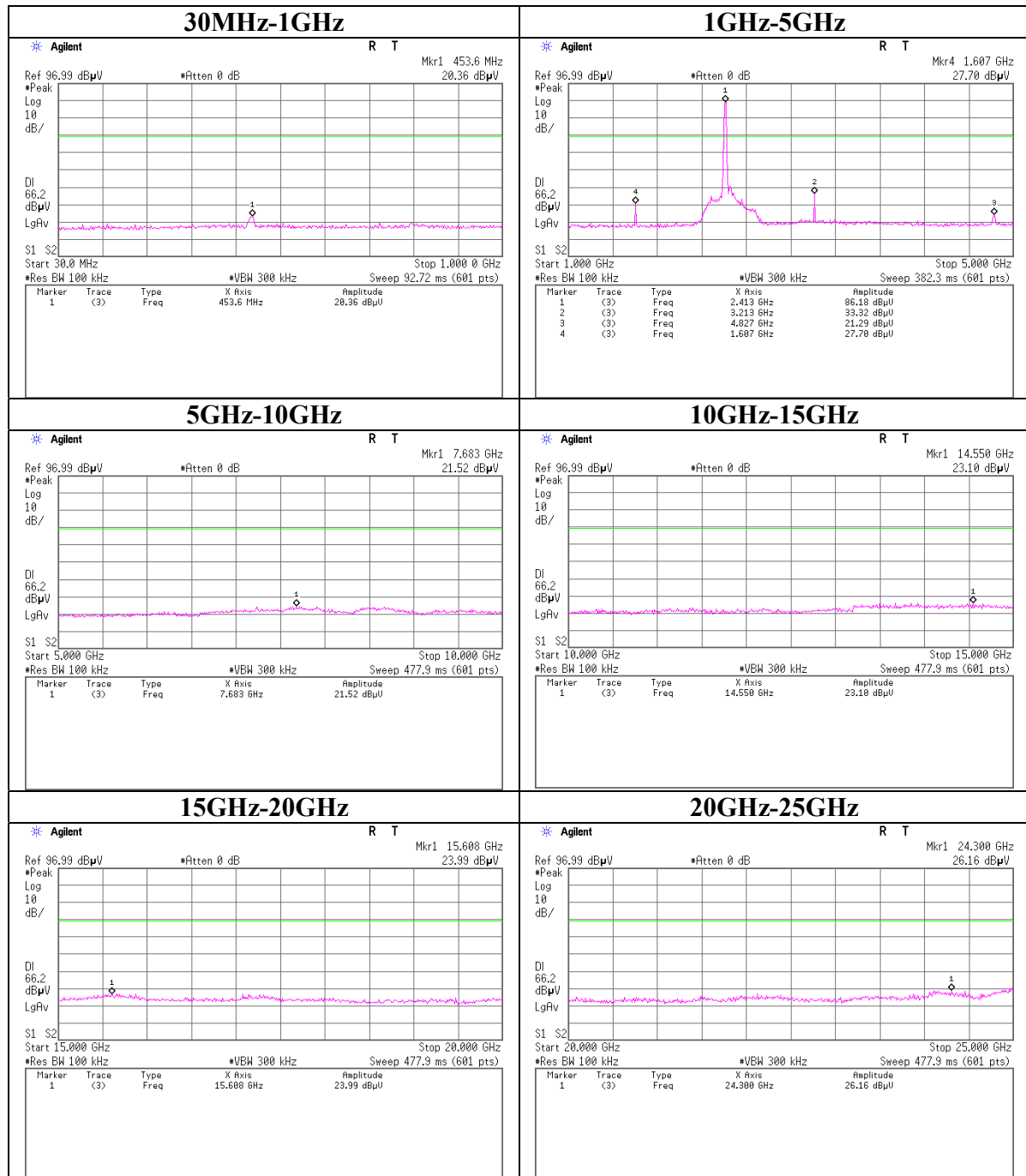
Conducted Spurious Emission
11b (11Mbps) Tx, Ch: Mid, ANT A, High power



Conducted Spurious Emission
11b (11Mbps) Tx, Ch: High, ANT A, High power

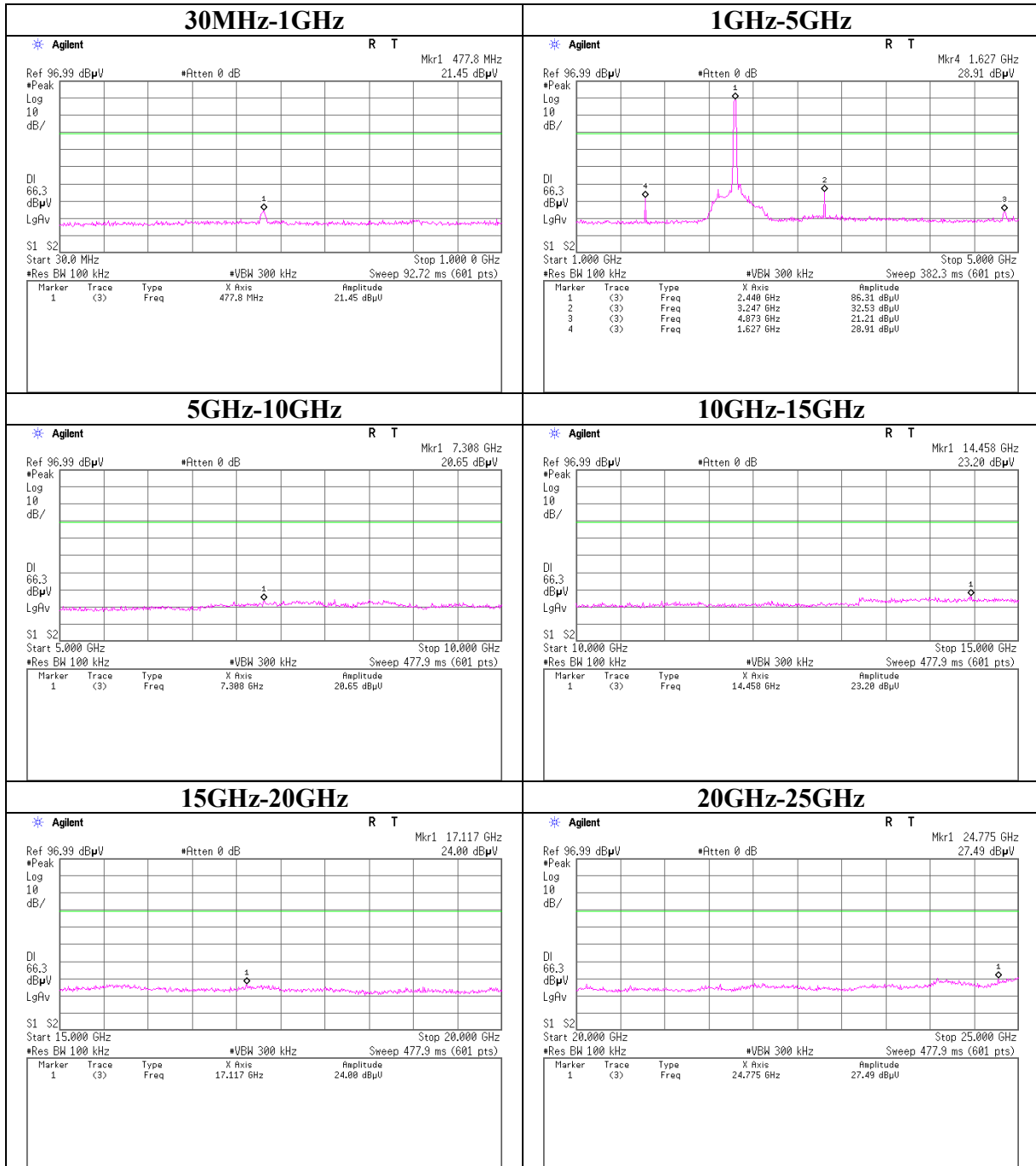


Conducted Spurious Emission
11g (54Mbps) Tx, Ch: Low, ANT A, High power

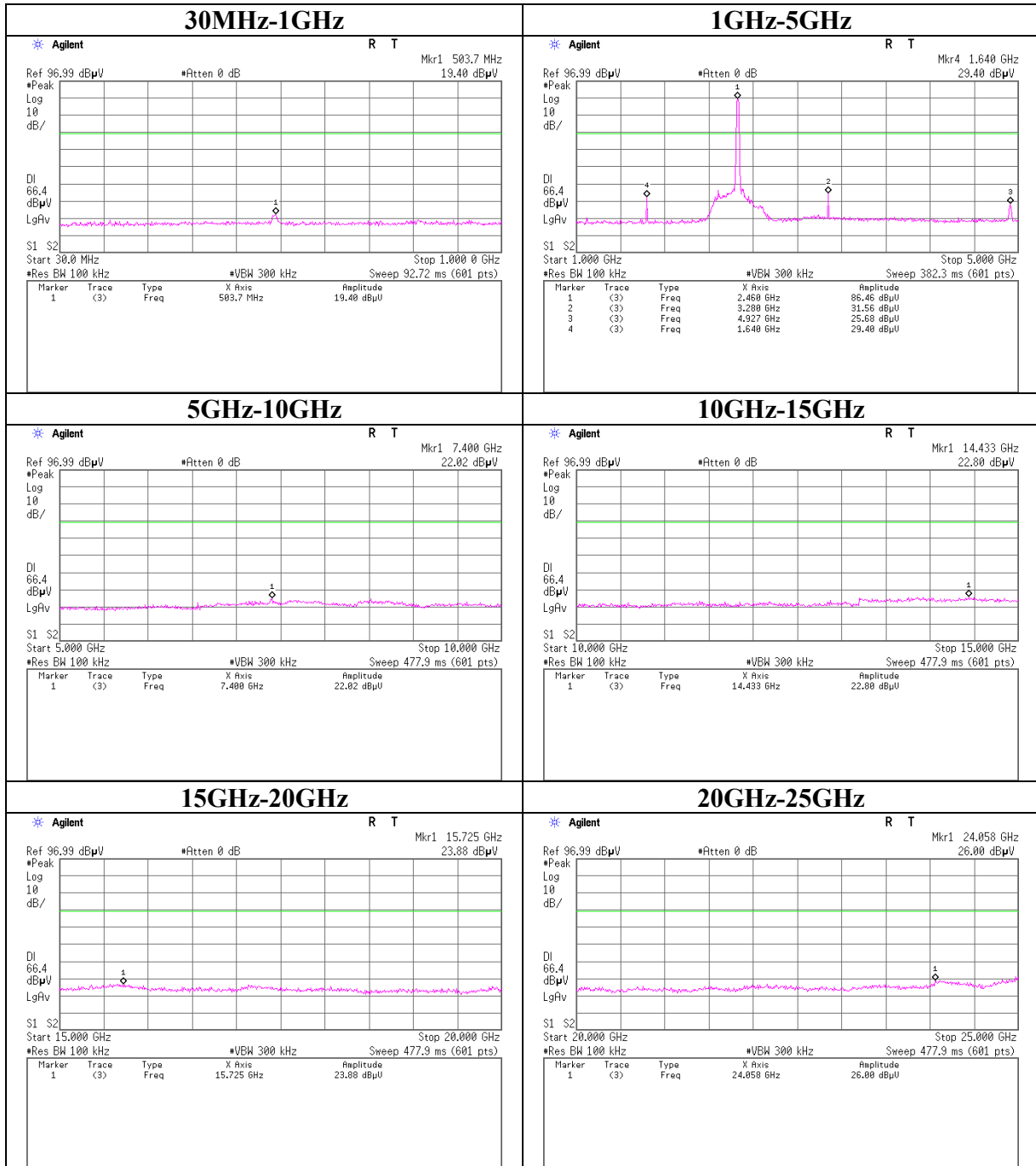


Conducted Spurious Emission

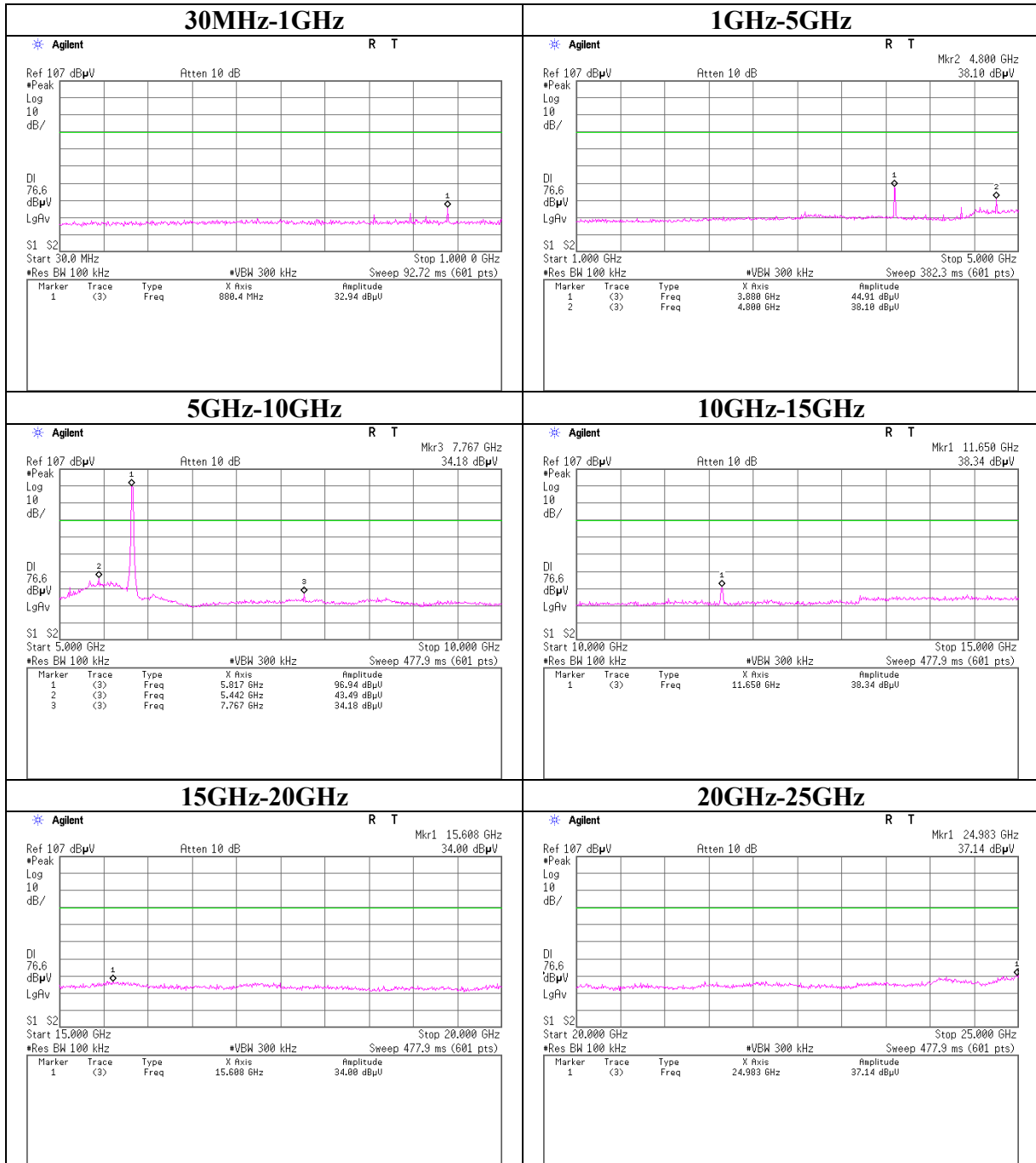
11g (54Mbps) Tx, Ch: Mid, ANT A, High power



Conducted Spurious Emission
11g (54Mbps) Tx, Ch: High, ANT A, High power

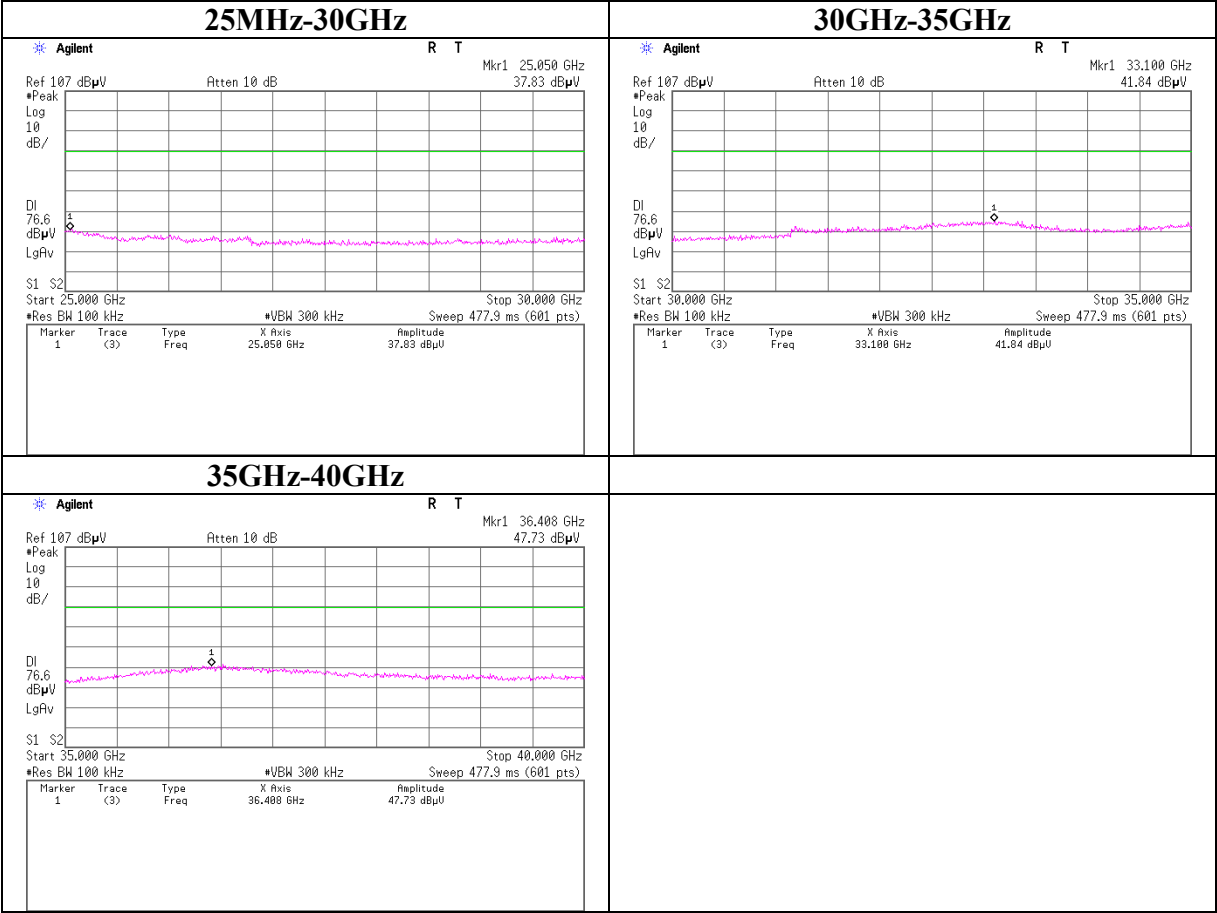


Conducted Spurious Emission
11a (54Mbps) Tx, Ch:165 (5825MHz), ANT A, High power



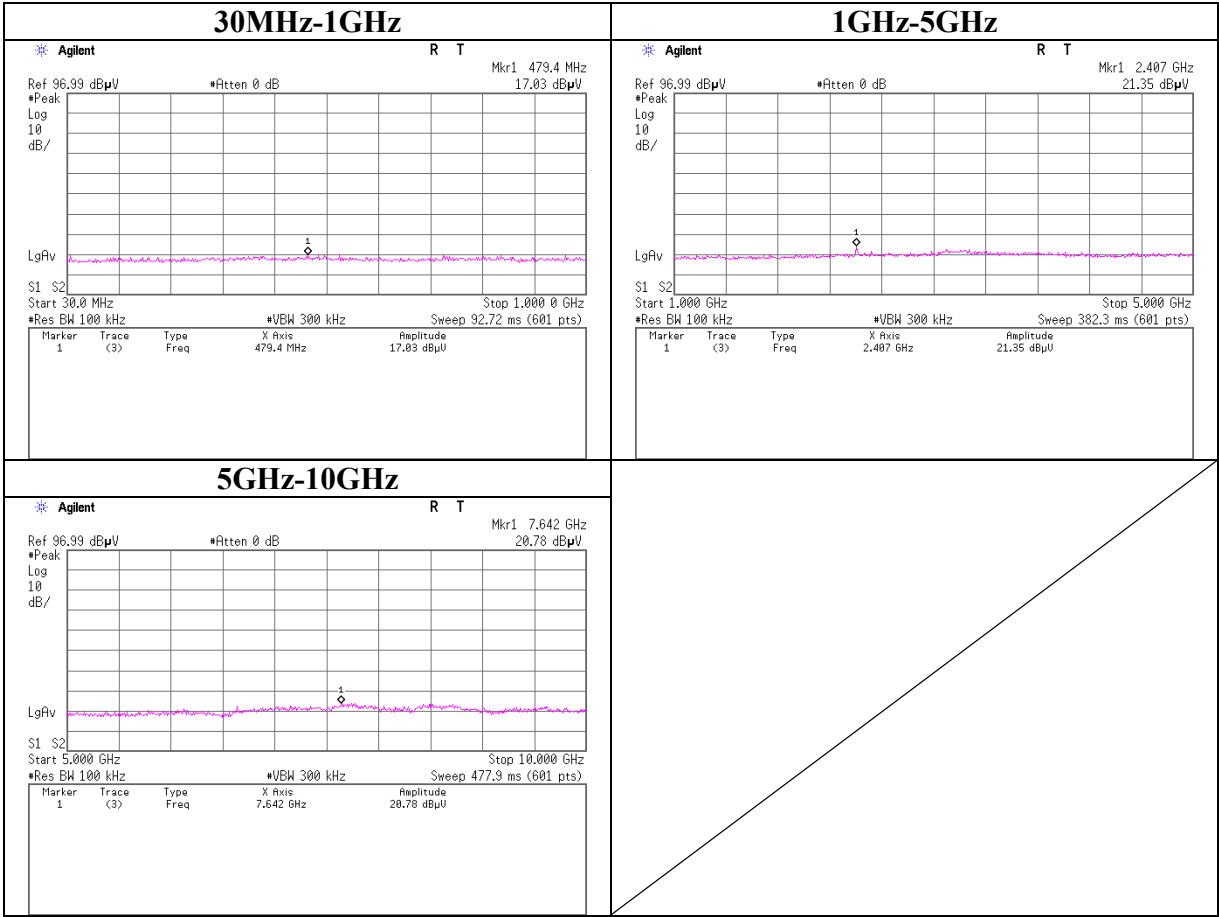
Conducted Spurious Emission

11a (54Mbps) Tx, Ch:165 (5825MHz), ANT A, High power



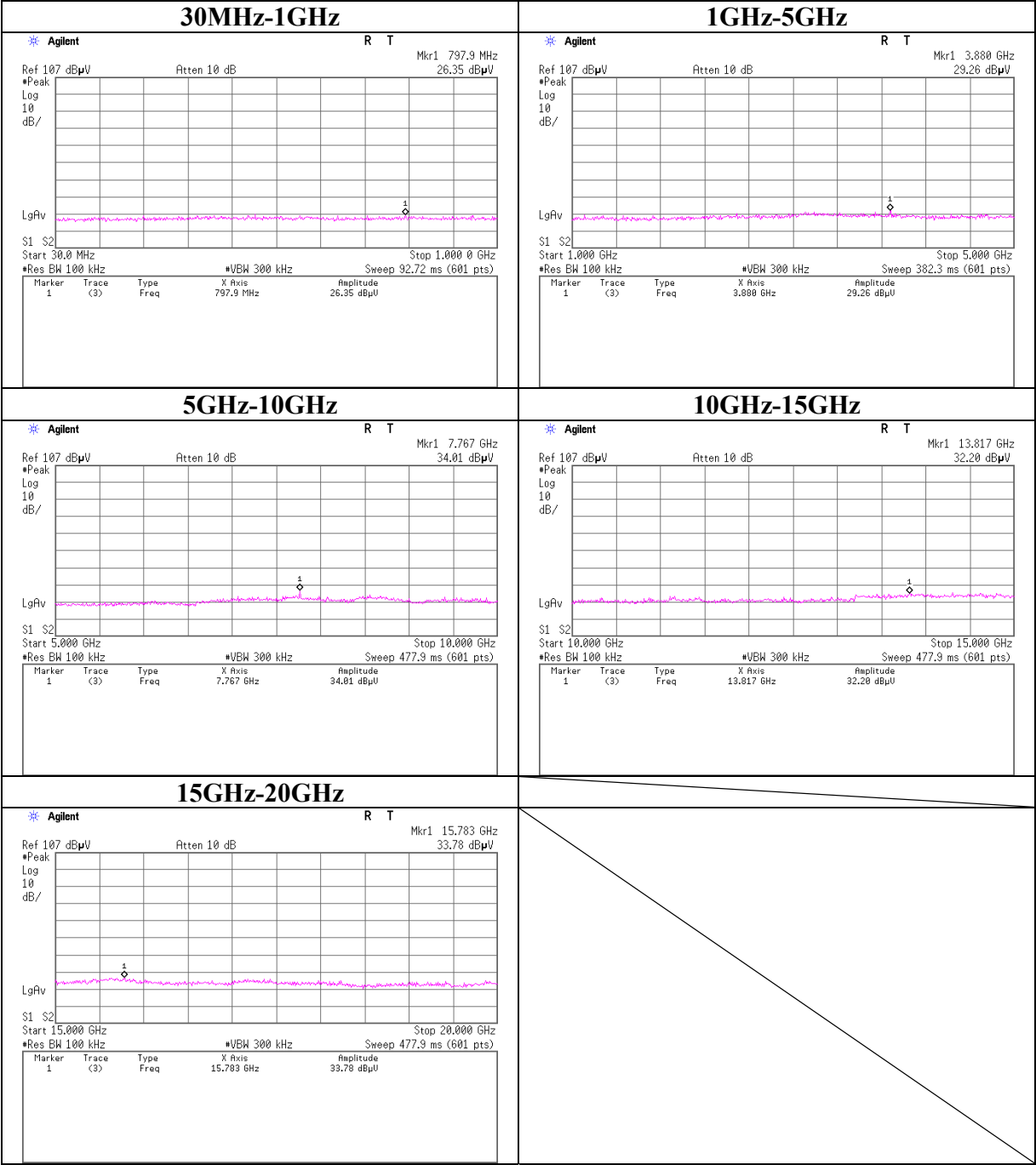
Conducted Spurious Emission

11b / 11g, Rx, Ch: Mid, ANT A

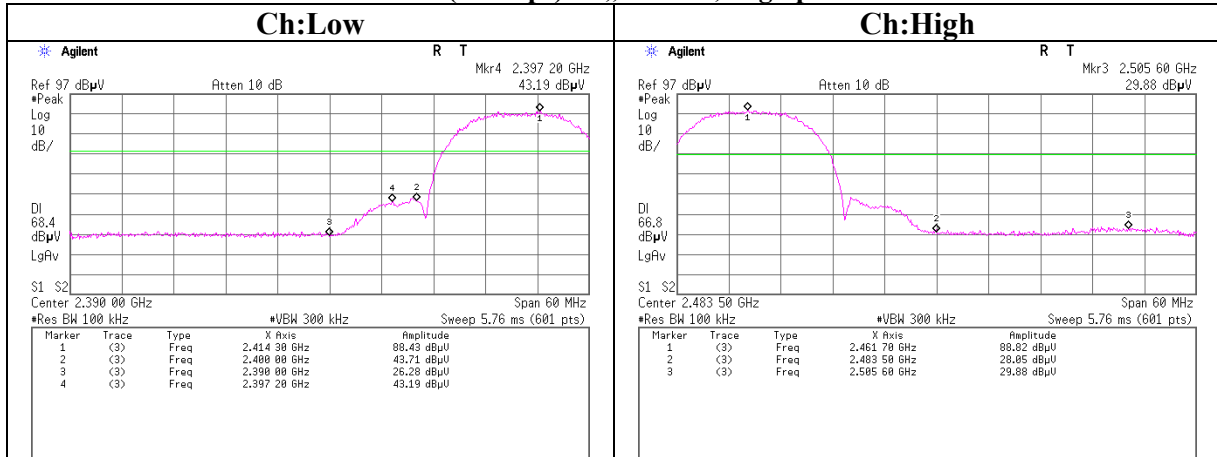


Conducted Spurious Emission

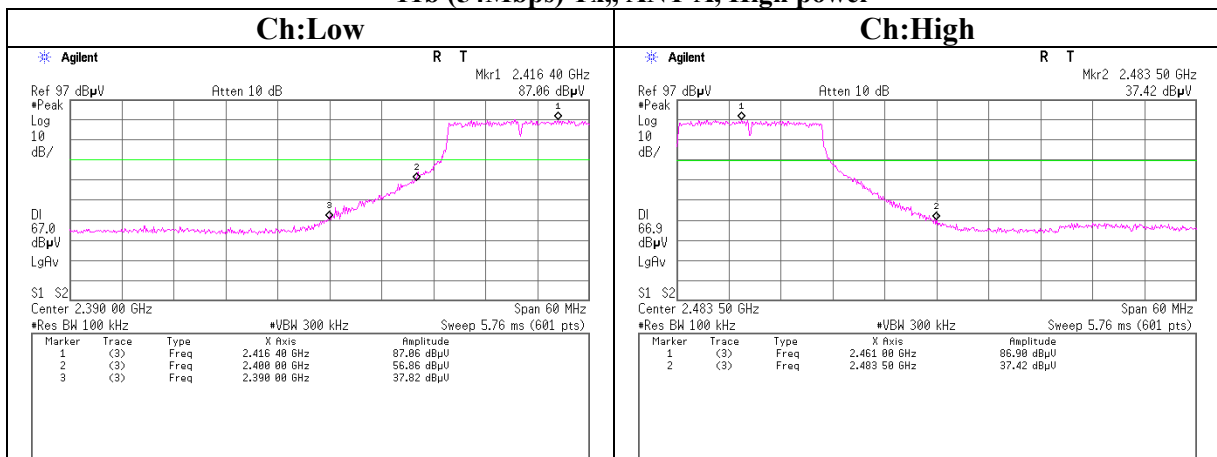
11a, Rx, Ch:165 (5825MHz), ANT A



Conducted emission Band Edge compliance
11b (11Mbps) Tx., ANT A, High power



11b (54Mbps) Tx., ANT A, High power



Power Density

Company Omron Corporation
Equipment FA Wireless LAN Unit
Model WE70-AP
S/N 279651000202
Power DC 24V
Mode IEEE802.11b (11Mbps) / 11g (54Mbps)
11a (54Mbps) Tx, Ant A (Worst),
High power

UL-Apex Co., Ltd.
Head Office EMC Lab. No.7 Shielded room
Regulation FCC Part15 Subpart C 15.247(e) / RSS-210 A8.2(2)
Test Distance -
Date 01/29/2007 02/05/2007
Temperature 25deg.C. 25deg.C.
Humidity 25 % 30 %
Engineer Kenichi Adachi Kenichi Adachi

[IEEE802.11b]

Ch	Freq. [MHz]	Reading [dBm]	Cable [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2412.4	-29.29	0.4	19.8	-9.1	8.0	17.1
Mid	2437.4	-28.52	0.4	19.8	-8.3	8.0	16.3
High	2462.4	-28.84	0.4	19.8	-8.7	8.0	16.7

[IEEE802.11g]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
Low	2411.3	-31.91	0.4	19.8	-11.7	8.0	19.7
Mid	2436.7	-32.55	0.4	19.8	-12.4	8.0	20.4
High	2461.7	-31.87	0.4	19.8	-11.7	8.0	19.7

[IEEE802.11a]

Ch	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
165	5825.0	-21.80	0.7	10.2	-11.0	8.0	19.0

Sample Calculation:

Result = Reading + Cable Loss + Attenuator

* In the above table, factor 0.0dB represents no use of extra cable. spectrum analyzer directly connected to ANT port.

*The limit is rounded down to one decimal place.

*The test result is round off to one or two decimal places, so some differences might be observed.

UL Apex Co., Ltd.

Head Office EMC Lab.

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

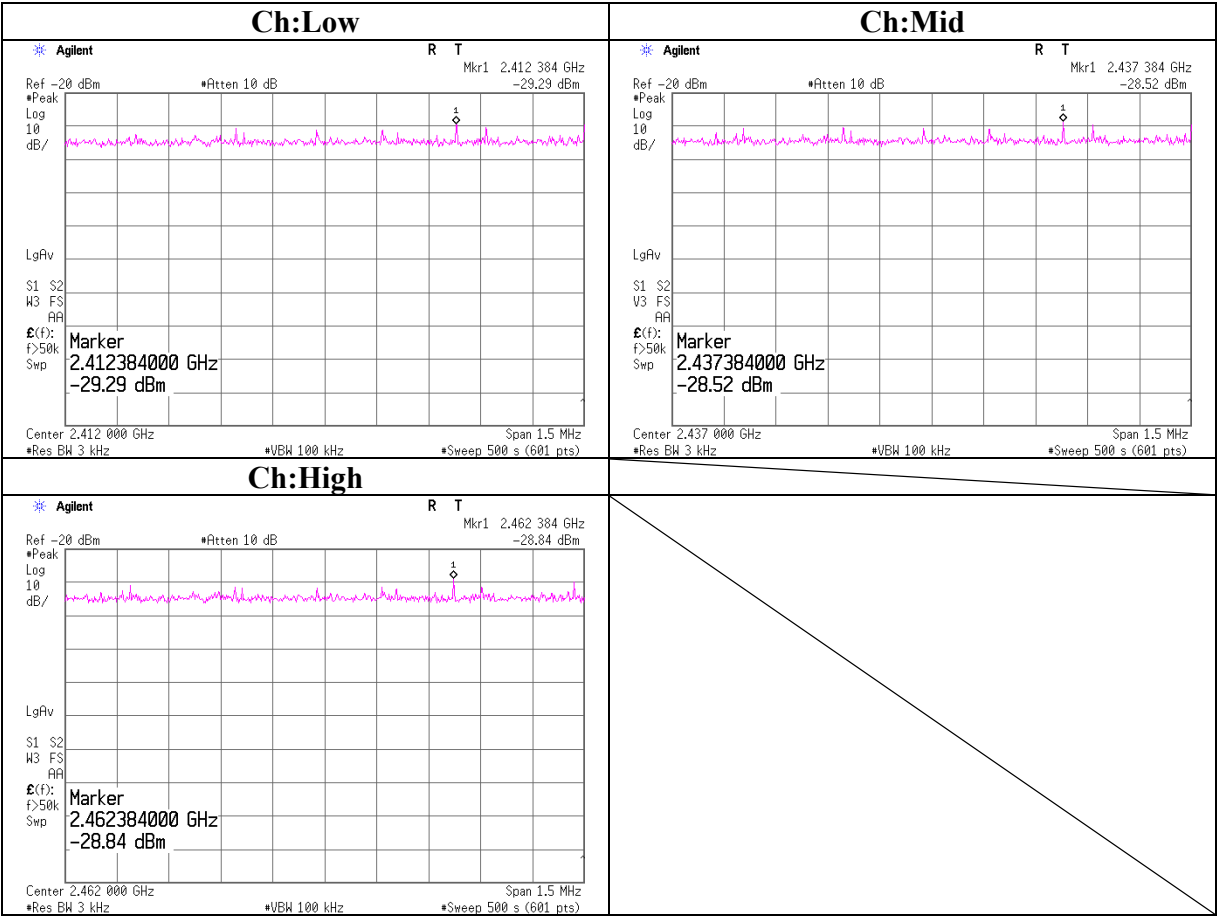
Telephone : +81 596 24 8116

Facsimile : +81 596 24 8124

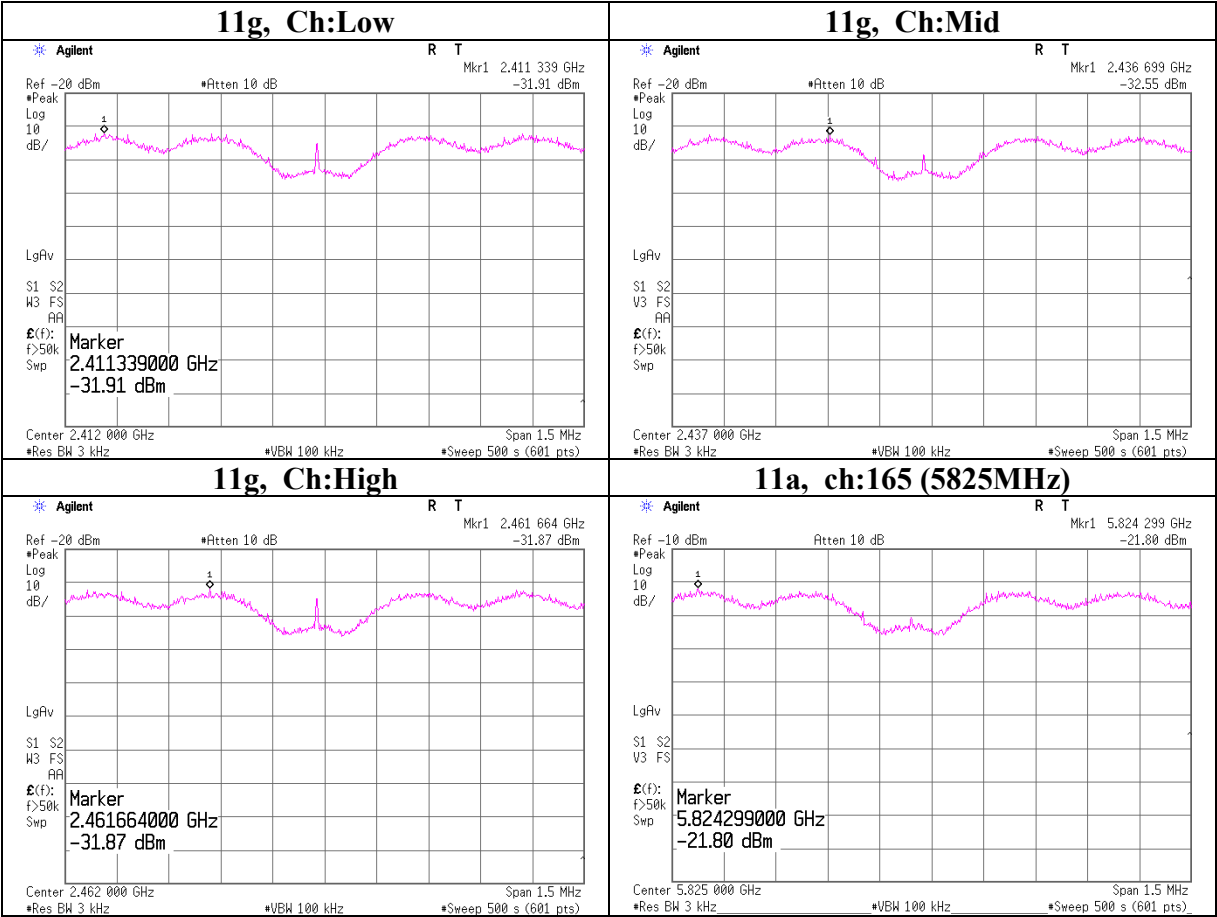
MF060b(14.06.06)

Power Density

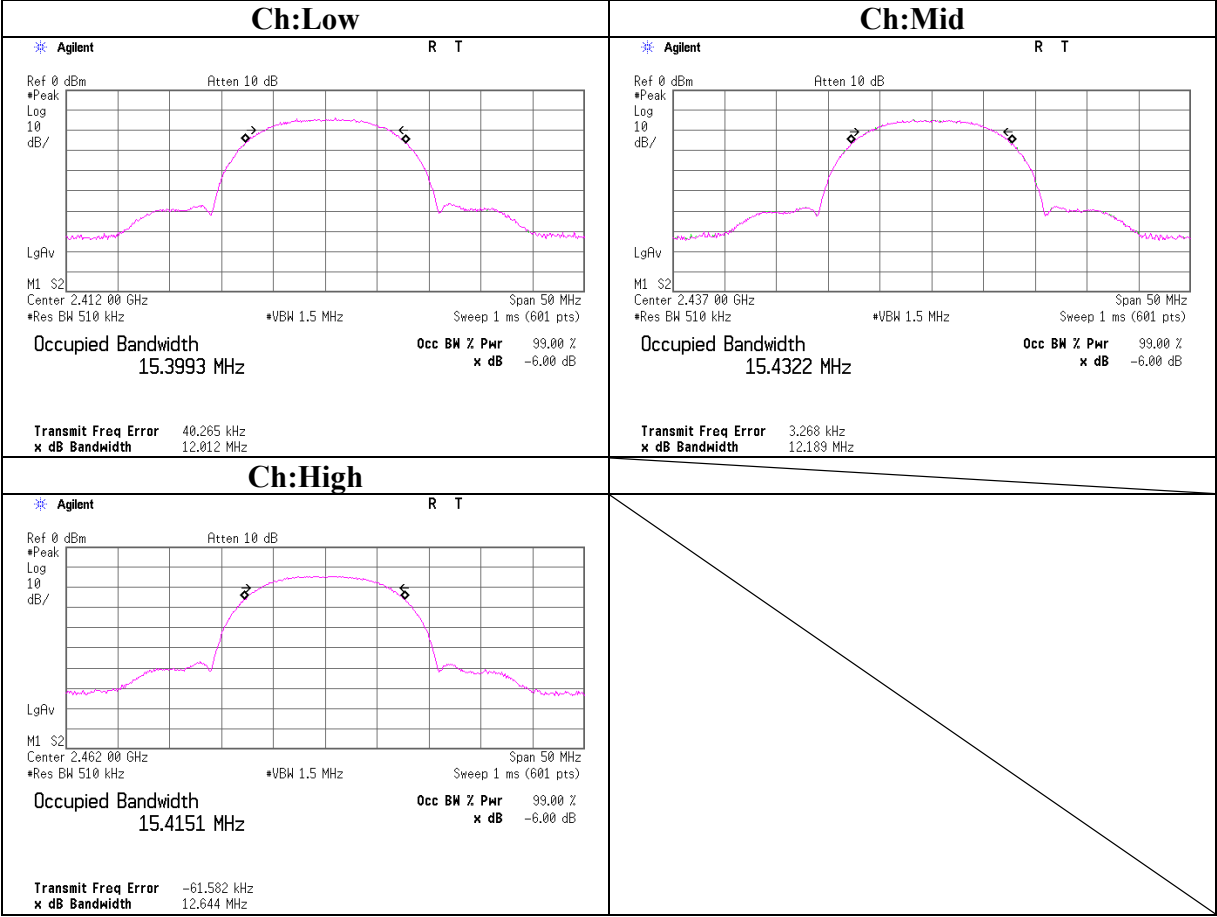
11b (11Mbps), Tx, ANT A, High power



Power Density
11g (54Mbps), 11a (54Mbps), Tx, ANT A, High power

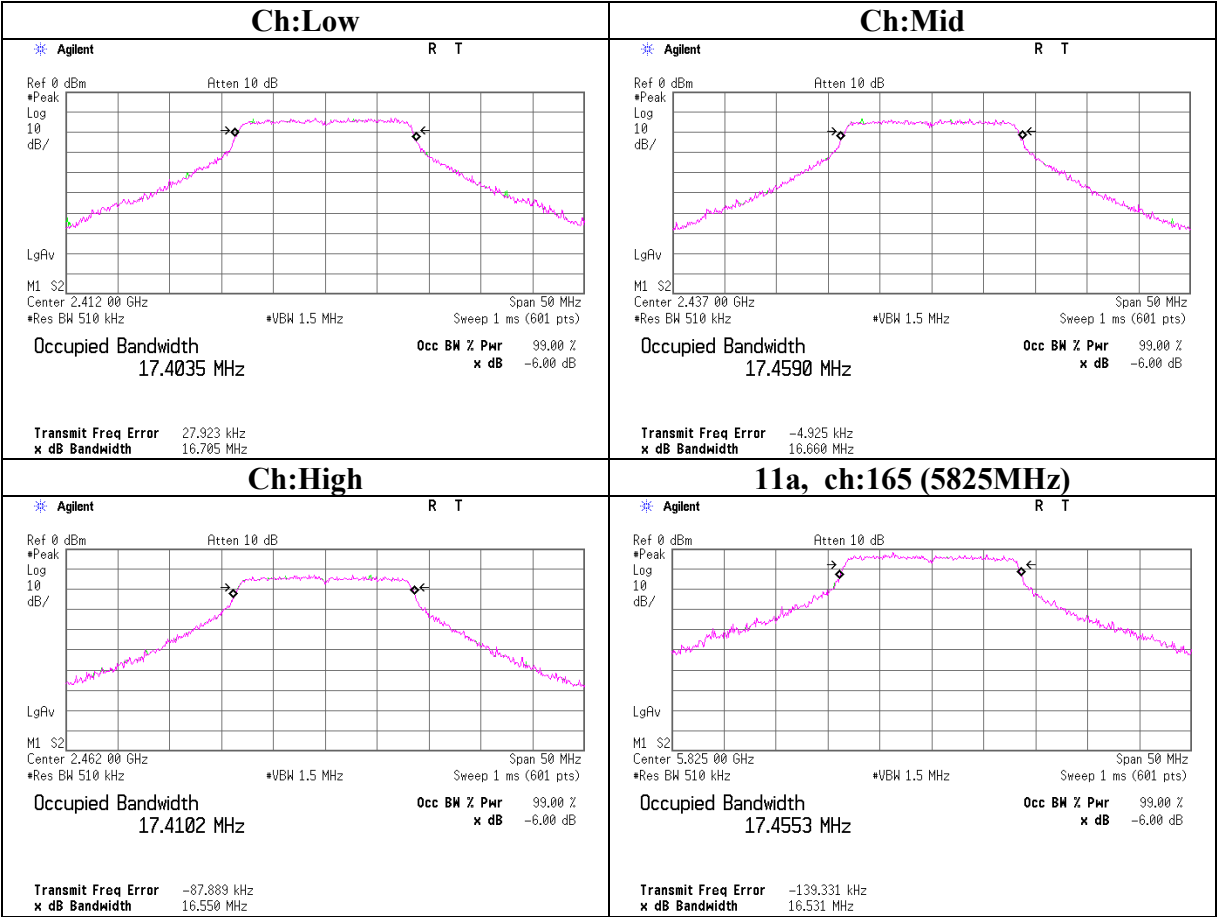


99%Occupied Bandwidth
11b(11Mbps) Tx,, ANT A, High power



99%Occupied Bandwidth

11g(54Mbps), 11a(54Mbps) Tx,, ANT A, High power



APPENDIX 3:Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-02	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE / CE	2006/04/10 * 12
MHA-06	Horn Antenna	Schwarzbeck	BBHA9120D	RE	2007/01/30 * 12
MCC-47	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MCC-25	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/08/29 * 12
MHF-06	High Pass Filter 3.5- 24GHz	Tokimec	TF323DCA	RE	2006/05/20 * 12
MSA-03	Spectrum Analyzer	Agilent	E4448A	RE / CE	2006/09/13 * 12
MPA-10	Pre Amplifier	Agilent	8449B	RE	2006/09/11 * 12
MJM-05	Measure	PROMART	SEN1955	RE / CE	-
MSTW-14	EMI measurement program	TSJ	TEPTO-DV	RE / CE	-
MOS-02	Digital Humidity Indicator	N.T	NT-1800	RE / CE	2006/11/27 * 12
MBA-02	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-02	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MPA-09	Pre Amplifier	Agilent	8447D	RE	2006/09/07 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	RE / CE	2006/03/04 * 12
MCC-12	Coaxial Cable	Fujikura/Agilent	-	RE	2006/02/23 * 12
MAT-07	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MAEC-03	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/03 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/04/06 * 12
MCC-56	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	RE	2006/12/08 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MOS-12	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MHA-02	Horn Antenna	EMCO	3160-09	RE	2007/01/30 * 12
MCC-27	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX101	RE	2006/08/30 * 12
MPA-03	Microwave System Power Amplifier	Agilent	83050A	RE	2006/05/16 * 12
MCC-28	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX101	RE	2006/08/30 * 12
MHA-04	Horn Antenna	EMCO	3160-10	RE	2007/01/30 * 12
MHF-09	High Pass Filter 7-30GHz	TOKIMEC	TF37NCCA	RE	2006/06/21 * 12
MPM-09	Power Meter	Anritsu	ML2495A	AT	2006/09/20 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	AT	2006/09/20 * 12
MAT-21	Attenuator(20dB)(above1 GHz)	HIROSE ELECTRIC CO.,LTD.	AT-120	AT	2007/01/11 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	AT / RE	2006/06/02 * 12
MLA-04C	Microwave Cable	Suhner	SUCOFLEX104	AT	2006/04/15 * 12
MOS-04	Digital Humidity Indicator	N.T	NT-1800	AT	2006/11/27 * 12

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(14.06.06)

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Test Item	Calibration Date * Interval(month)
MAEC-01	Anechoic Chamber	TDK	Semi Anechoic Chamber 10m	RE	2006/11/01 * 12
MTR-01	Test Receiver	Rohde & Schwarz	ESI40	RE	2006/10/14 * 12
MCC-01	Coaxial Cable 0.1- 3000MHz	Suhner/storm/Agilent/ TSJ	-	RE	2006/02/20 * 12
MPA-04	Pre Amplifier	Agilent	8447D	RE	2007/01/24 * 12
MAT-06	Attenuator(6dB)	Weinschel Corp	2	RE	2006/12/27 * 12
MBA-01	Biconical Antenna	Schwarzbeck	BBA9106	RE	2006/10/07 * 12
MLA-01	Logperiodic Antenna	Schwarzbeck	USLP9143	RE	2006/10/07 * 12
MOS-01	Digital Humidity Indicator	N.T	NT-1800	RE	2006/11/27 * 12
MJM-01	Measure	KDS	ES19-55	RE	-
MAEC-04	Anechoic Chamber	TDK	Semi Anechoic Chamber 3m	RE	2006/03/06 * 12
MBA-05	Biconical Antenna	Schwarzbeck	BBA9106	RE	2007/01/19 * 12
MLA-08	Logperiodic Antenna	Schwarzbeck	UKLP9140-A	RE	2007/01/19 * 12
MAT-31	Attenuator(6dB)	TME	UFA-01	RE	2006/03/11 * 12
MCC-50	Coaxial cable	UL Apex	-	RE	2006/03/09 * 12
MSA-05	Spectrum Analyzer	Advantest	R3273	RE	2006/05/20 * 12
MTR-02	Test Receiver	Rohde & Schwarz	ESCS30	RE	2007/02/03 * 12
MOS-15	Thermo-Hygrometer	Custom	CTH-180	RE	2006/01/19 * 24
MCC-57	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/08/17 * 12
MHF-05	High Pass Filter 3.5- 18GHz	Tokimec	TF323DCA	RE	2007/01/16 * 12
MJM-07	Measure	PROMART	SEN1955	RE	-
MPA-17	Pre Amplifier	UNITEK ELECTROBICS INC.	40GHzAMP	RE	2006/12/15 * 12
MCC-13	Coaxial Cable	Fujikura/Agilent	-	CE	2006/02/23 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	CE (EUT)	2006/02/06 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	CE (AE)	2006/02/06 * 12
MTA-16	Terminator	TME	CT-03NP	CE	2006/12/13 * 12
MAT-24	Attenuator(10dB)(above 1 GHz)	Agilent	8493C	AT	2006/06/02 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	RE	2006/08/17 * 12
MCC-57	Microwave Cable 1G- 26.5GHz	Suhner	SUCOFLEX104	RE	2006/04/15 * 12
MPA-12	MicroWave System Amplifier	Agilent	83017A	RE	2006/03/27 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	RE	2006/04/15 * 12
MHF-11	High Pass Filter 7-30GHz	TOKIMEC	TF37NCCC	RE	2006/06/21 * 12
MCC-54	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX101	RE	2006/04/01 * 12
MTA-06	Terminator	MCL	BTRM-50	CE	2007/02/01 * 12
TR-07	Test Receiver	Rohde & Schwarz	ESCS30	RE / CE	2006/09/12 * 12

The expiration date of the calibration is the end of the expired month.

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

Test Item: CE: Conducted Emission

RE: Radiated Emission

AT: Antenna Terminal Conducted test

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(14.06.06)