

FCC TEST REPORT

REPORT NO.: RF910620R01

MODEL NO.: IWE1100

RECEIVED: June 20, 2002

TESTED: June 20 ~ June 27, 2002

APPLICANT: Interepoch Technology Inc.

ADDRESS: 7F, No. 3, Alley 6, Lane 235, Pao Chiao Rd., Hsin-Tien
City, Taipei Hsien, Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

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0528
ILAC MRA



Lab Code: 200102-0

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1 CERTIFICATION

PRODUCT : Wireless Internet Access Server Appliances
BRAND NAME : INTEREPOCH
MODEL NO. : IWE1100
APPLICANT : Interepoch Technology Inc.
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from June 20 ~ June 27, 2002. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

CHECKED BY: Rennie Wang, **DATE:** September 26, 2002
Rennie Wang

APPROVED BY: Alan Lane, **DATE:** September 26, 2002
Dr. Alan Lane
Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Section	Test Type and Limit	Result	REMARK
15.207	AC Power Conducted Emission Limit: 48dBuV	PASS	Meet the requirement of limit Minimum passing margin is -2.10dBuV at 0.58MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit
15.247(c)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit Minimum passing margin is -2.20dBuV at 2088.00MHz
15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit
15.247(c)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Internet Access Server Appliances
MODEL NO.	IWE1100
POWER SUPPLY	5VDC from AC adapter
MODULATION TYPE	BPSK, QPSK, CCK
RADIO TECHNOLOGY	DSSS
TRANSFER RATE	1/2/5.5/11Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	15.23dBm
ANTENNA TYPE	Dipole antenna
I/O PORTS	RJ-45
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was operated with following AC adapter and POE:

AC Adapter	
Brand Name :	SINO-AMERICAN
Model No.:	SA15-0520V
Input power :	AC100-240V ~ 50/60Hz 350Ma
Output power :	5V---2000mA

POE (Injector of Power over Ethernet)	
Serial No.:	0000046
Input power :	AC 100-240V
Output power :	48V/0.35A

2. Three samples with different designs were provided to this EUT. Please refer to the following:

Sample	Function	Description	Antenna	Antenna Gain
1	Access Point	Antenna located on back side	Dipole	2dBi
2	Access Point	Antenna located on top side	Dipole	1dBi
3	Wireless Router	Antenna located on left side	Dipole	1dBi

3. For more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided in this EUT.

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

NOTE:

- Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
- Above 1 GHz, the channel 1, 6, and 11 were tested individually.
- The EUT was tested with power adapter and POE. For Conducted Emission Measurement and Radiated Emission Measurement (below 1GHz) test, there were six test results provided to this EUT. Please refer to the following:

Sample	Function	Test Mode	Test Result
1	Access Point	Adapter	A
		POE	B
2	Access Point	Adapter	C
		POE	D
3	Wireless Router	Adapter	E
		POE	F

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Wireless Internet Access Server Appliances. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C. (15.247)

ANSI C63.4 : 1992

All tests have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	PP01L	TW-09C748-12800-190-B220	FCC DoC APPROVED
2	PERSONAL COMPUTER	HP	Brio BA410	SG12902766	FCC DoC APPROVED
3	USB MOUSE	LOGITECH	M-BB48	LZA00354277	FCC DoC APPROVED
4	PRINTER	EPSON	LQ-300+	DCGY017096	FCC DoC APPROVED
5	MODEM	ACEEX	1414	980020503	IFAXDM1414
6	PS/2 KEYBOARD	BTC	5121W	A00801156	E5XKB5121WTH01
7	COLOR MONITOR	ADI	CM100	026058T102006 11 A	FCC DoC APPROVED

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	NA
4	1.2m braid shielded wire, terminated with DB25 and Centronics connector via metallic frame, w/o core
5	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
6	1.6 m foil shielded wire, terminated with PS/2 connector via metallic frame, w/o core.
7	1.8 m braid shielded wire, terminated with VGA connector via metallic frame, w/o core

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.45 – 30	48	-

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	847793/022	Mar. 12, 2003
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH2-Z5	828075/003	July 23, 2003
ROHDE & SCHWARZ 200-A Four-line V-Network	ENV4200	830326/018	Oct. 25, 2002
* ROHDE & SCHWARZ 4-wire ISN	ENY41	838119/028	Dec. 2, 2002
* ROHDE & SCHWARZ 2-wire ISN	ENY22	837497/018	Dec. 2, 2002
EMCO-L.I.S.N. (for peripheral)	3825/2	9003-1627	July 23, 2003
Software	Cond-V2L	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C05.01	July 23, 2003
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-305	Feb. 20, 2003
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-306	Feb. 20, 2003
Shielded Room	Site 5	ADT-C05	NA
VCCI Site Registration No.	Site 5	C-1093	NA

NOTE: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.

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

3. “*”: These equipment are used for conducted telecom port test only (if tested).



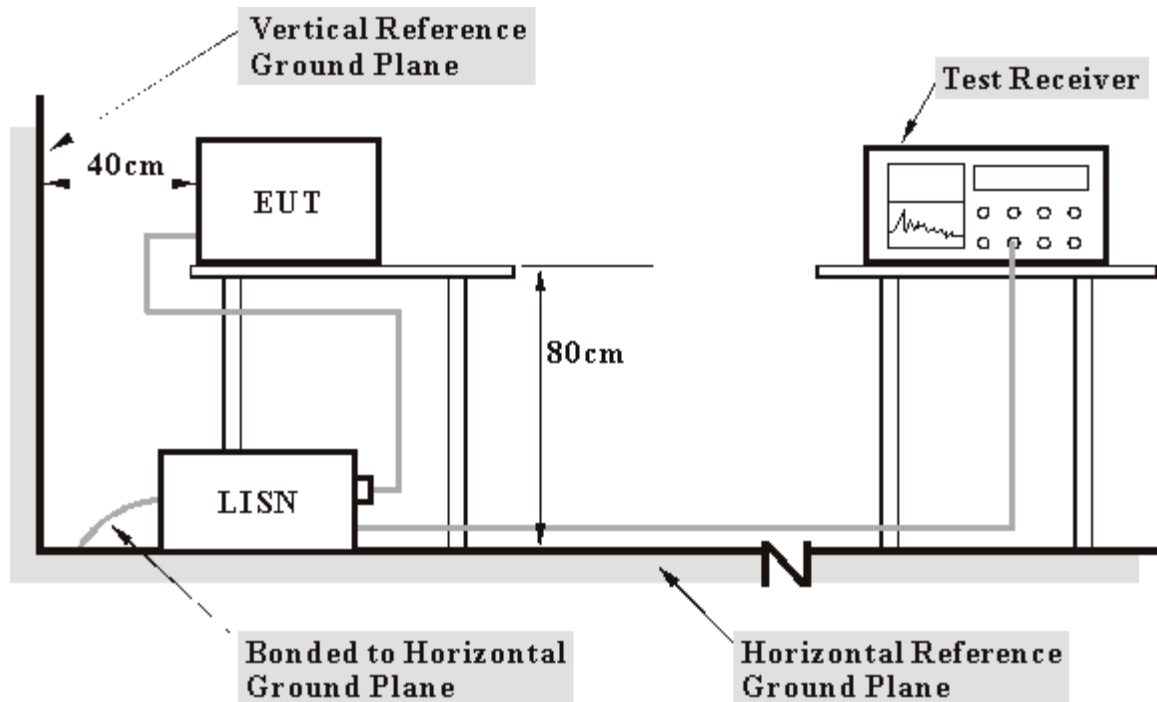
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 450 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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



4.1.6 EUT OPERATING CONDITIONS

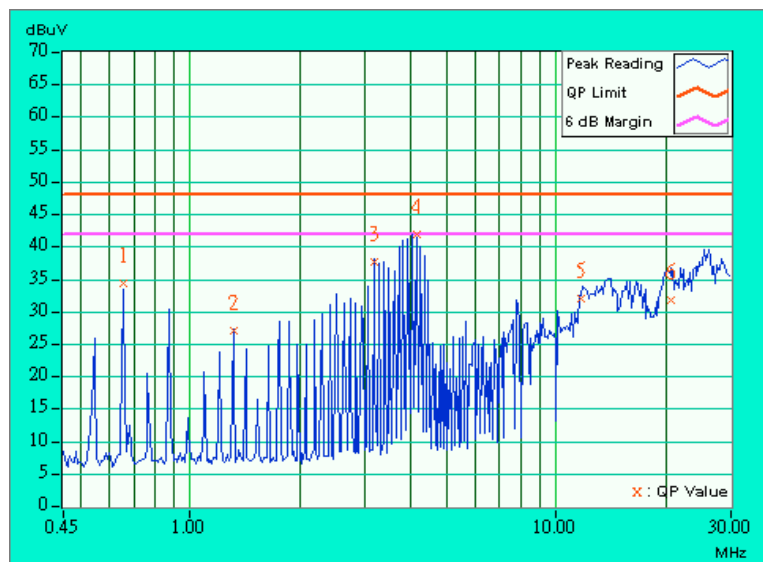
- a. Placed the EUT on the testing table.
- b. Prepared another computer system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ 45 cable.
- d. The communication partner sent data to EUT by command "PIN".

4.1.7 TEST RESULTS (A)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.49	-	33.63	-	48.00	-	-14.37	-
2	1.309	0.20	26.10	-	26.30	-	48.00	-	-21.70	-
3	3.168	0.32	36.71	-	37.03	-	48.00	-	-10.97	-
4	4.148	0.40	40.94	-	41.34	-	48.00	-	-6.66	-
5	11.688	0.63	31.07	-	31.70	-	48.00	-	-16.30	-
6	20.523	1.02	30.80	-	31.82	-	48.00	-	-16.18	-

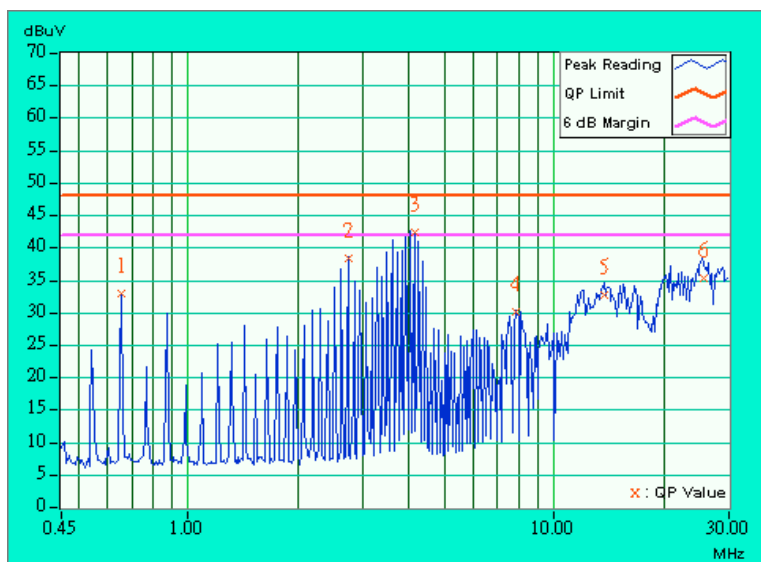
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	32.28	-	32.42	-	48.00	-	-15.58	-
2	2.730	0.24	37.77	-	38.01	-	48.00	-	-9.99	-
3	4.148	0.30	41.61	-	41.91	-	48.00	-	-6.09	-
4	7.863	0.36	29.36	-	29.72	-	48.00	-	-18.28	-
5	13.648	0.47	31.94	-	32.41	-	48.00	-	-15.59	-
6	25.563	0.71	34.62	-	35.33	-	48.00	-	-12.67	-

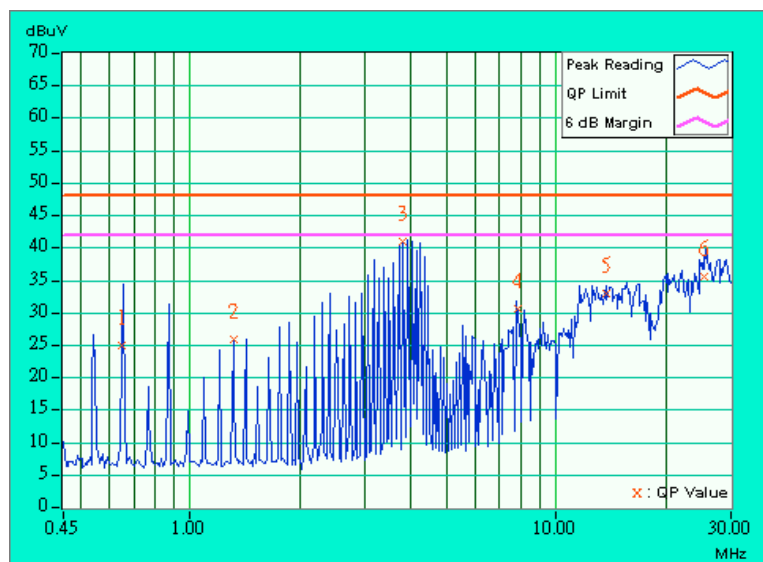
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.649	0.14	23.85	-	23.99	-	48.00	-	-24.01	-
2	1.313	0.20	24.72	-	24.92	-	48.00	-	-23.08	-
3	3.820	0.38	39.85	-	40.23	-	48.00	-	-7.77	-
4	7.859	0.53	29.55	-	30.08	-	48.00	-	-17.92	-
5	13.648	0.67	31.76	-	32.43	-	48.00	-	-15.57	-
6	25.344	1.21	34.48	-	35.69	-	48.00	-	-12.31	-

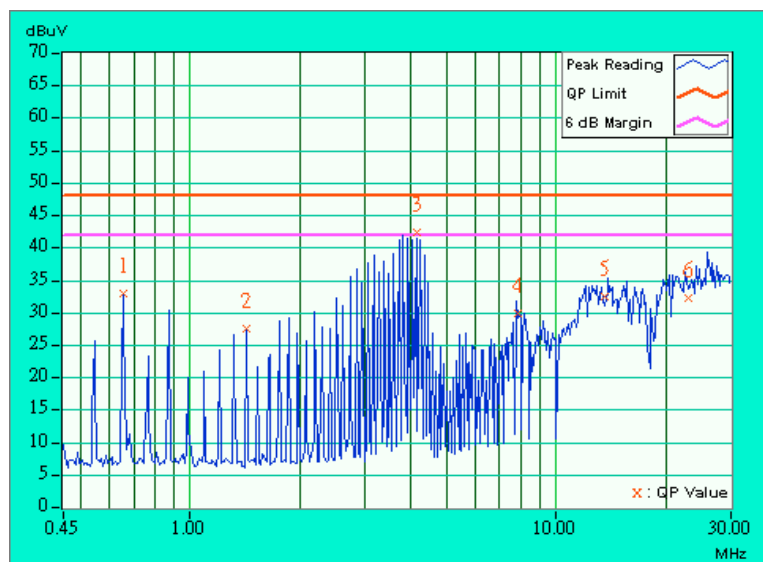
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	32.20	-	32.34	-	48.00	-	-15.66	-
2	1.418	0.20	26.80	-	27.00	-	48.00	-	-21.00	-
3	4.148	0.30	41.63	-	41.93	-	48.00	-	-6.07	-
4	7.863	0.36	29.30	-	29.66	-	48.00	-	-18.34	-
5	13.547	0.47	31.70	-	32.17	-	48.00	-	-15.83	-
6	23.047	0.74	31.48	-	32.22	-	48.00	-	-15.78	-

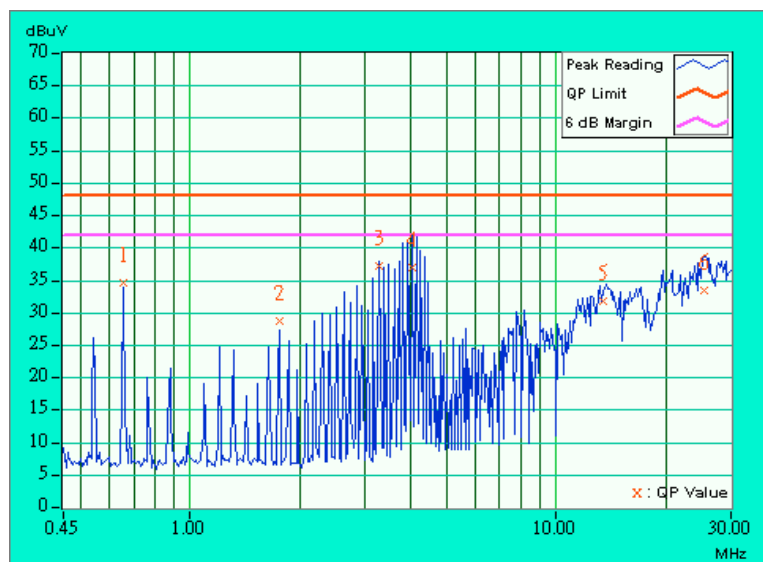
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.41	-	33.55	-	48.00	-	-14.45	-
2	1.746	0.20	27.57	-	27.77	-	48.00	-	-20.23	-
3	3.273	0.33	35.99	-	36.32	-	48.00	-	-11.68	-
4	4.035	0.40	35.70	-	36.10	-	48.00	-	-11.90	-
5	13.422	0.67	30.63	-	31.30	-	48.00	-	-16.70	-
6	25.457	1.21	32.34	-	33.55	-	48.00	-	-14.45	-

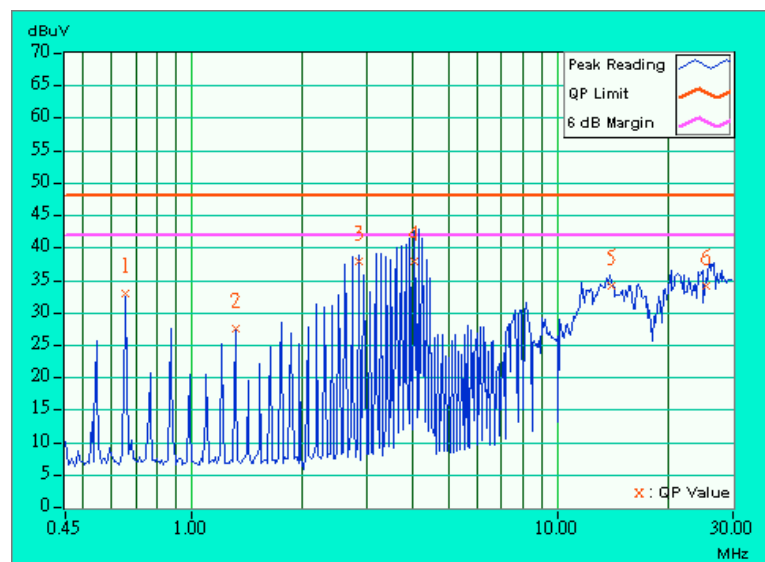
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	32.32	-	32.46	-	48.00	-	-15.54	-
2	1.309	0.20	26.89	-	27.09	-	48.00	-	-20.91	-
3	2.840	0.24	37.23	-	37.47	-	48.00	-	-10.53	-
4	4.035	0.30	37.26	-	37.56	-	48.00	-	-10.44	-
5	13.973	0.48	33.39	-	33.87	-	48.00	-	-14.13	-
6	25.234	0.70	33.36	-	34.06	-	48.00	-	-13.94	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

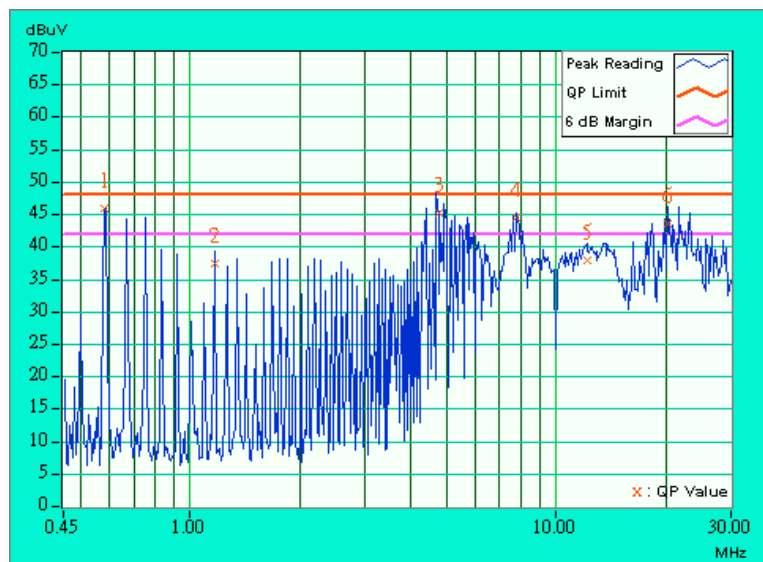


4.1.8 TEST RESULTS (B)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	44.85	-	44.98	-	48.00	-	-3.02	-
2	1.168	0.20	36.38	-	36.58	-	48.00	-	-11.42	-
3	4.766	0.43	44.28	-	44.71	-	48.00	-	-3.29	-
4	7.781	0.53	43.55	-	44.08	-	48.00	-	-3.92	-
5	12.137	0.64	36.92	-	37.56	-	48.00	-	-10.44	-
6	20.258	1.01	42.60	-	43.61	-	48.00	-	-4.39	-

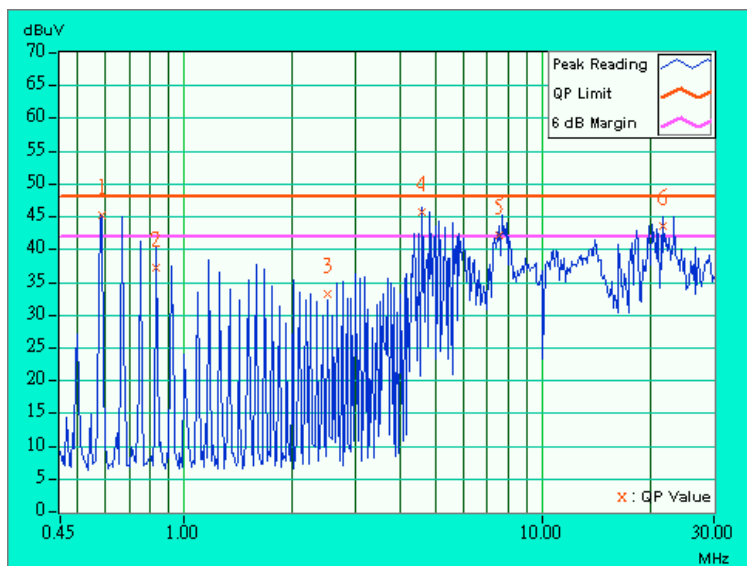
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	44.41	-	44.54	-	48.00	-	-3.46	-
2	0.833	0.17	36.37	-	36.54	-	48.00	-	-11.46	-
3	2.512	0.23	32.46	-	32.69	-	48.00	-	-15.31	-
4	4.598	0.31	44.96	-	45.27	-	48.00	-	-2.73	-
5	7.527	0.36	41.37	-	41.73	-	48.00	-	-6.27	-
6	21.664	0.77	42.84	-	43.61	-	48.00	-	-4.39	-

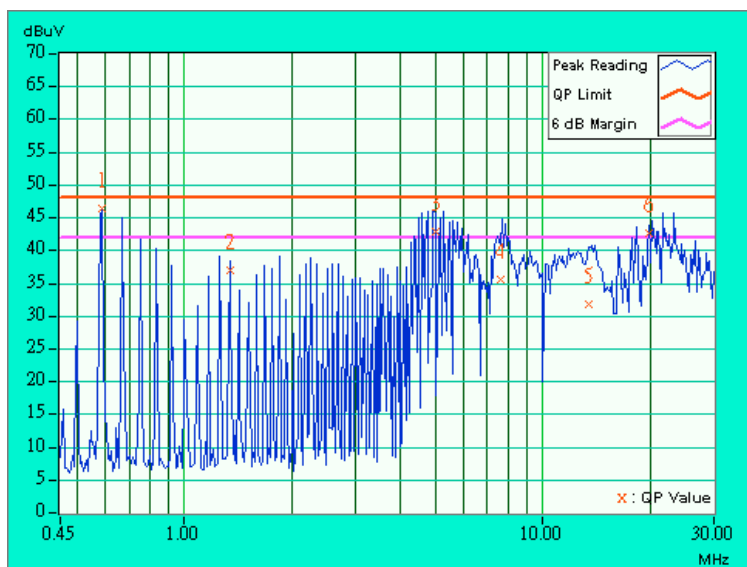
- Remarks:
1. "": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	45.50	-	45.63	-	48.00	-	-2.37	-
2	1.340	0.20	36.02	-	36.22	-	48.00	-	-11.78	-
3	5.020	0.43	41.89	-	42.32	-	48.00	-	-5.68	-
4	7.617	0.52	34.52	-	35.04	-	48.00	-	-12.96	-
5	13.473	0.67	30.74	-	31.41	-	48.00	-	-16.59	-
6	19.707	0.98	41.64	-	42.62	-	48.00	-	-5.38	-

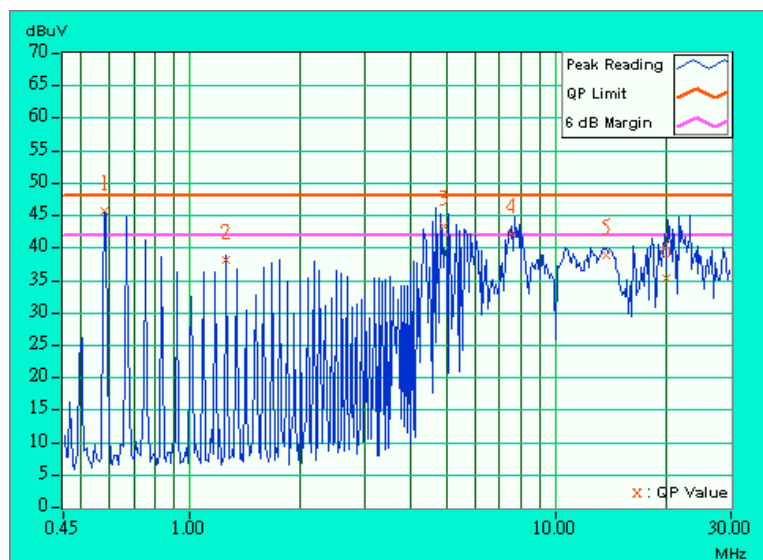
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	44.95	-	45.08	-	48.00	-	-2.92	-
2	1.254	0.20	37.30	-	37.50	-	48.00	-	-10.50	-
3	4.930	0.32	42.65	-	42.97	-	48.00	-	-5.03	-
4	7.527	0.36	41.29	-	41.65	-	48.00	-	-6.35	-
5	13.633	0.47	38.21	-	38.68	-	48.00	-	-9.32	-
6	19.895	0.79	34.54	-	35.33	-	48.00	-	-12.67	-

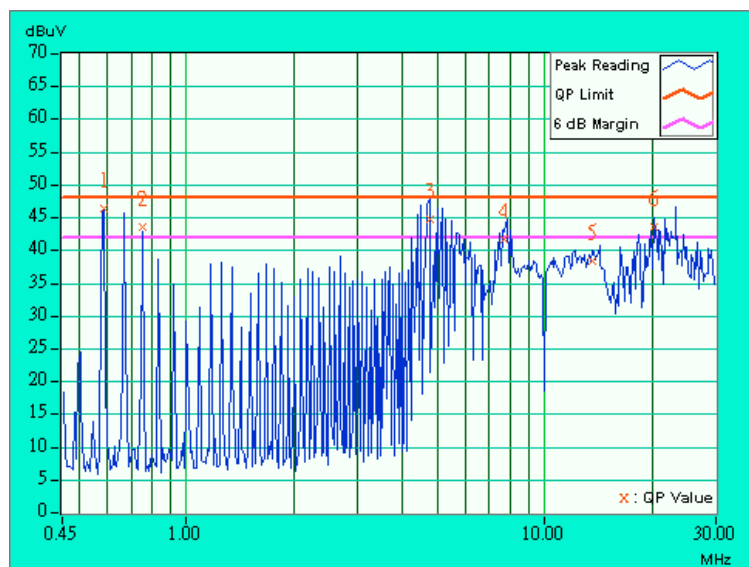
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	45.46	-	45.59	-	48.00	-	-2.41	-
2	0.751	0.16	42.56	-	42.72	-	48.00	-	-5.28	-
3	4.763	0.43	43.82	-	44.25	-	48.00	-	-3.75	-
4	7.699	0.52	40.63	-	41.15	-	48.00	-	-6.85	-
5	13.547	0.67	37.45	-	38.12	-	48.00	-	-9.88	-
6	20.258	1.01	42.53	-	43.54	-	48.00	-	-4.46	-

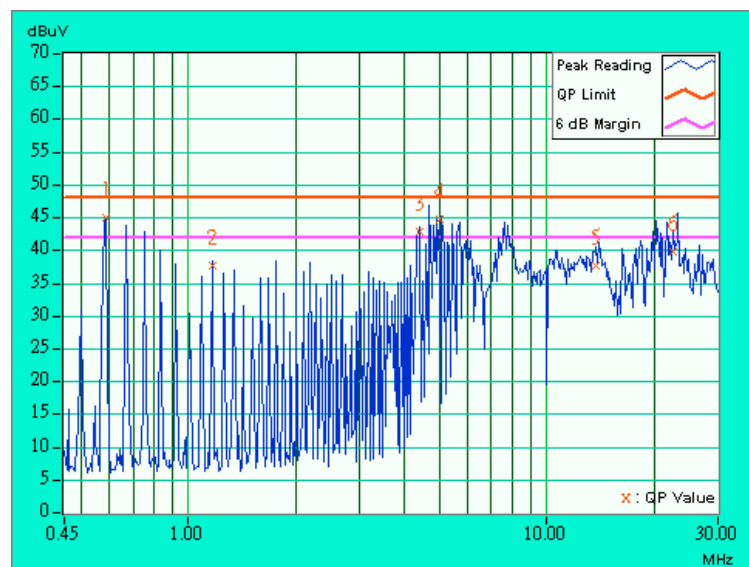
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	44.37	-	44.50	-	48.00	-	-3.50	-
2	1.168	0.20	36.97	-	37.17	-	48.00	-	-10.83	-
3	4.430	0.31	42.06	-	42.37	-	48.00	-	-5.63	-
4	5.016	0.32	44.15	-	44.47	-	48.00	-	-3.53	-
5	13.637	0.47	36.93	-	37.40	-	48.00	-	-10.60	-
6	22.578	0.75	38.97	-	39.72	-	48.00	-	-8.28	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

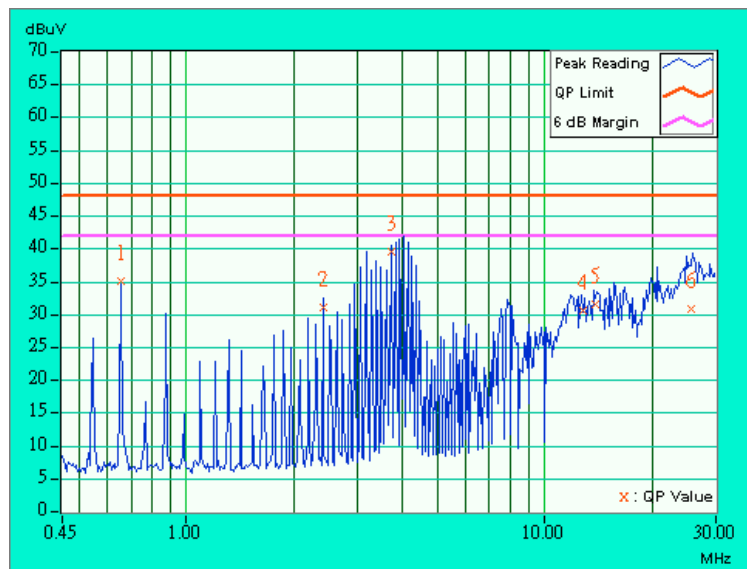


4.1.9 TEST RESULTS (C)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.79	-	33.93	-	48.00	-	-14.07	-
2	2.402	0.24	29.79	-	30.03	-	48.00	-	-17.97	-
3	3.711	0.37	38.42	-	38.79	-	48.00	-	-9.21	-
4	12.789	0.66	29.53	-	30.19	-	48.00	-	-17.81	-
5	13.883	0.68	30.37	-	31.05	-	48.00	-	-16.95	-
6	25.551	1.21	29.63	-	30.84	-	48.00	-	-17.16	-

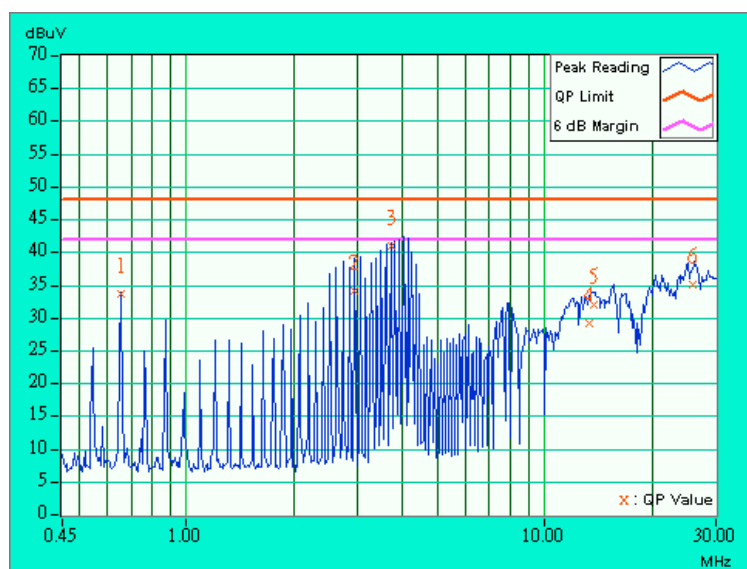
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.02	-	33.16	-	48.00	-	-14.84	-
2	2.945	0.25	33.47	-	33.72	-	48.00	-	-14.28	-
3	3.711	0.29	40.40	-	40.69	-	48.00	-	-7.31	-
4	13.313	0.47	28.51	-	28.98	-	48.00	-	-19.02	-
5	13.645	0.47	31.37	-	31.84	-	48.00	-	-16.16	-
6	25.781	0.72	34.34	-	35.06	-	48.00	-	-12.94	-

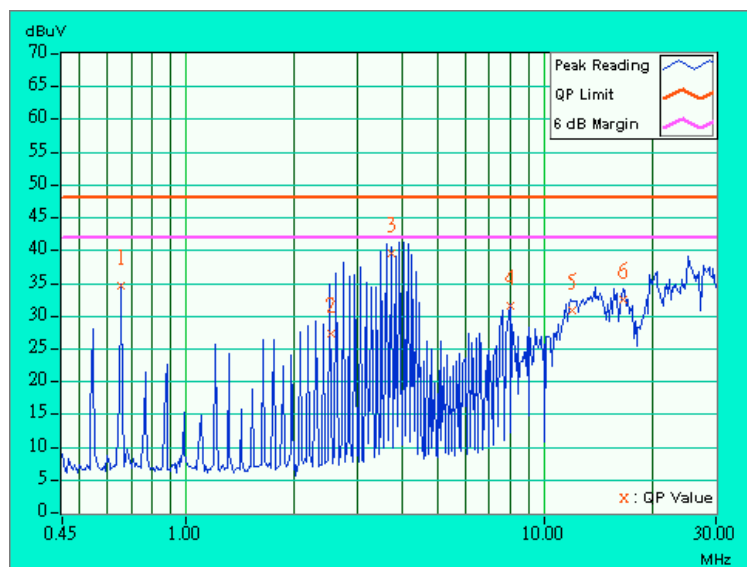
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.79	-	33.93	-	48.00	-	-14.07	-
2	2.520	0.25	26.58	-	26.83	-	48.00	-	-21.17	-
3	3.711	0.37	38.77	-	39.14	-	48.00	-	-8.86	-
4	7.973	0.53	30.72	-	31.25	-	48.00	-	-16.75	-
5	11.914	0.64	30.14	-	30.78	-	48.00	-	-17.22	-
6	16.496	0.79	31.83	-	32.62	-	48.00	-	-15.38	-

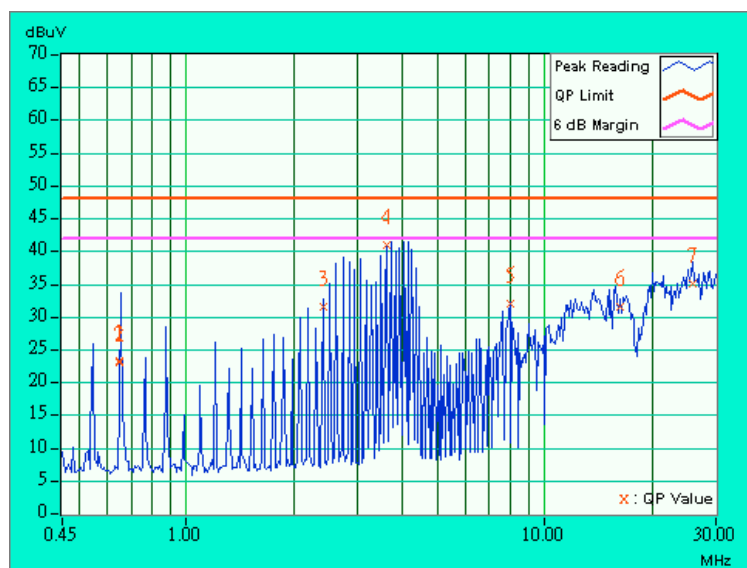
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.649	0.14	22.52	-	22.66	-	48.00	-	-25.34	-
2	0.649	0.14	22.46	-	22.60	-	48.00	-	-25.40	-
3	2.402	0.22	30.81	-	31.03	-	48.00	-	-16.97	-
4	3.605	0.28	40.20	-	40.48	-	48.00	-	-7.52	-
5	7.973	0.37	31.36	-	31.73	-	48.00	-	-16.27	-
6	16.270	0.58	30.91	-	31.49	-	48.00	-	-16.51	-
7	25.891	0.72	34.34	-	35.06	-	48.00	-	-12.94	-

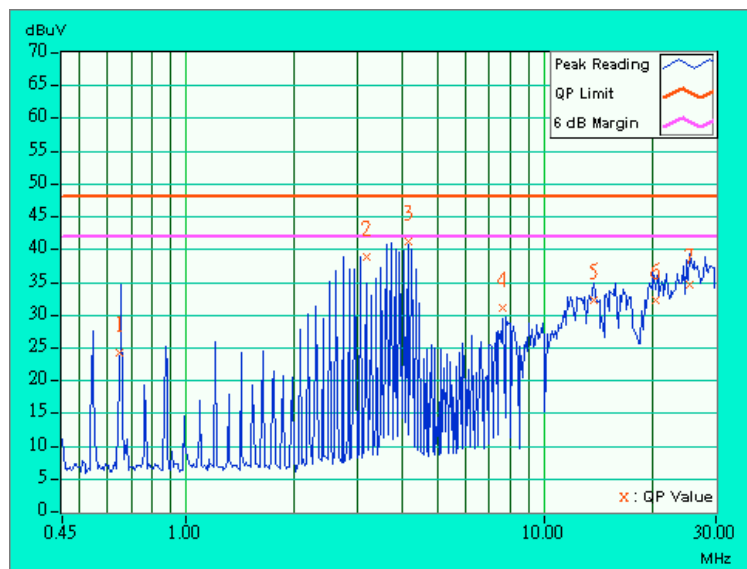
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.649	0.14	23.08	-	23.22	-	48.00	-	-24.78	-
2	3.168	0.32	37.59	-	37.91	-	48.00	-	-10.09	-
3	4.152	0.41	39.92	-	40.33	-	48.00	-	-7.67	-
4	7.645	0.52	30.01	-	30.53	-	48.00	-	-17.47	-
5	13.648	0.67	31.01	-	31.68	-	48.00	-	-16.32	-
6	20.316	1.01	30.99	-	32.00	-	48.00	-	-16.00	-
7	25.449	1.21	33.45	-	34.66	-	48.00	-	-13.34	-

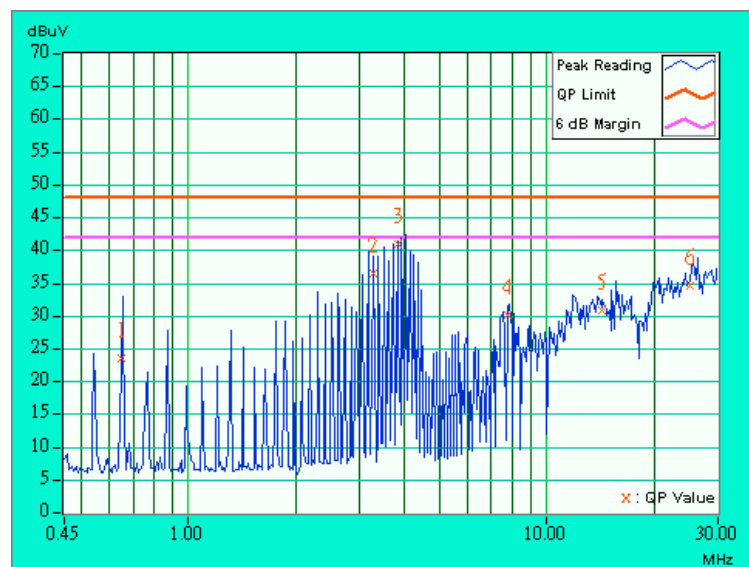
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.649	0.14	22.76	-	22.90	-	48.00	-	-25.10	-
2	3.273	0.26	35.84	-	36.10	-	48.00	-	-11.90	-
3	3.824	0.29	40.37	-	40.66	-	48.00	-	-7.34	-
4	7.758	0.36	29.41	-	29.77	-	48.00	-	-18.23	-
5	14.207	0.48	30.20	-	30.68	-	48.00	-	-17.32	-
6	25.020	0.70	34.01	-	34.71	-	48.00	-	-13.29	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

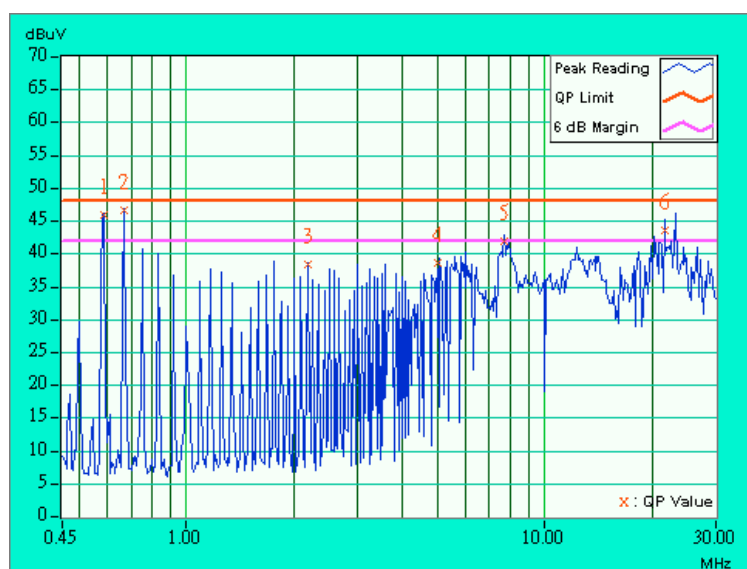


4.1.10 TEST RESULTS (D)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	44.98	-	45.11	-	48.00	-	-2.89	-
2	0.669	0.14	45.60	-	45.74	-	48.00	-	-2.26	-
3	2.172	0.22	37.35	-	37.57	-	48.00	-	-10.43	-
4	5.012	0.43	37.50	-	37.93	-	48.00	-	-10.07	-
5	7.684	0.52	40.88	-	41.40	-	48.00	-	-6.60	-
6	21.664	1.07	42.42	-	43.49	-	48.00	-	-4.51	-

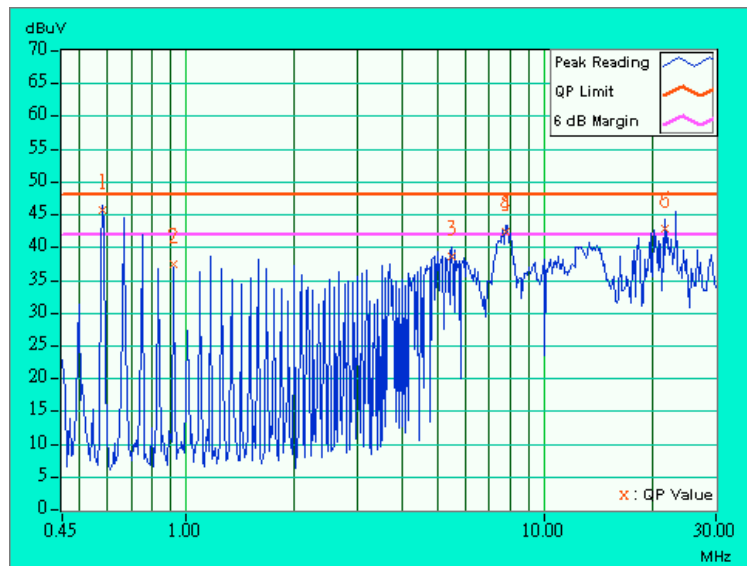
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	44.97	-	45.10	-	48.00	-	-2.90	-
2	0.919	0.19	36.76	-	36.95	-	48.00	-	-11.05	-
3	5.512	0.33	37.97	-	38.30	-	48.00	-	-9.70	-
4	7.766	0.36	41.77	-	42.13	-	48.00	-	-5.87	-
5	7.766	0.36	41.63	-	41.99	-	48.00	-	-6.01	-
6	21.664	0.77	42.12	-	42.89	-	48.00	-	-5.11	-

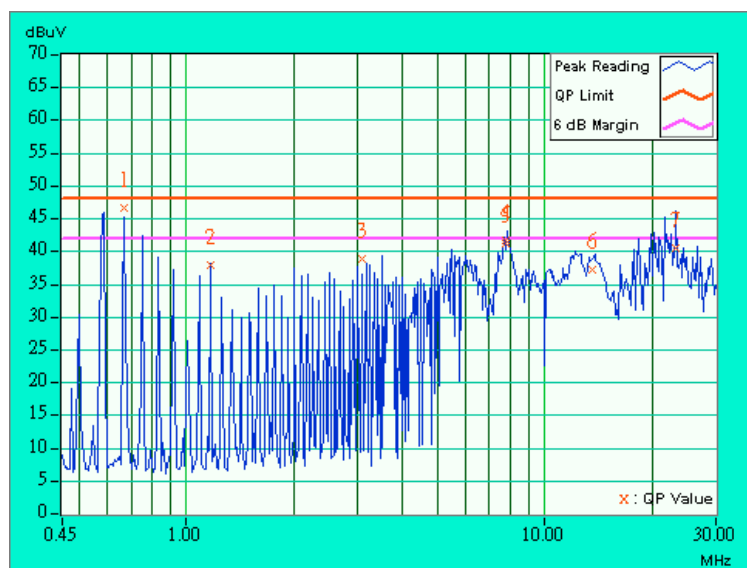
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.669	0.14	45.60	-	45.74	-	48.00	-	-2.26	-
2	1.168	0.20	36.71	-	36.91	-	48.00	-	-11.09	-
3	3.090	0.31	37.69	-	38.00	-	48.00	-	-10.00	-
4	7.770	0.53	40.50	-	41.03	-	48.00	-	-6.97	-
5	7.770	0.53	40.14	-	40.67	-	48.00	-	-7.33	-
6	13.609	0.67	36.03	-	36.70	-	48.00	-	-11.30	-
7	23.066	1.12	39.51	-	40.63	-	48.00	-	-7.37	-

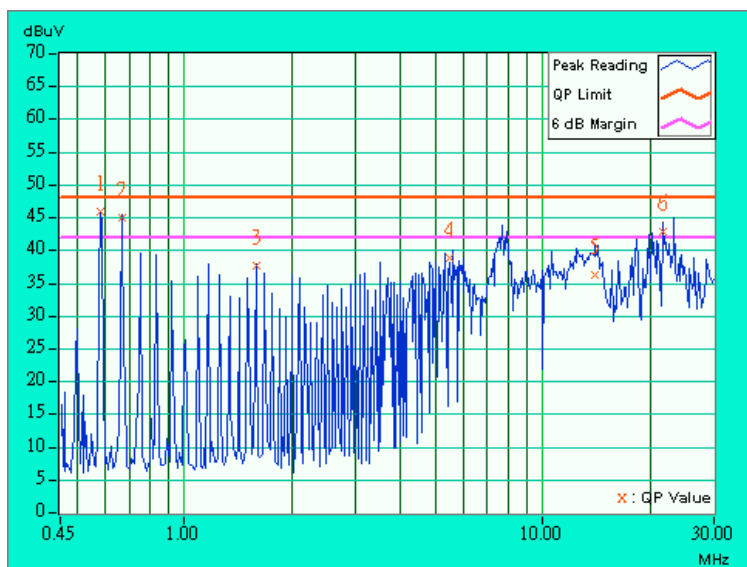
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	45.21	-	45.34	-	48.00	-	-2.66	-
2	0.669	0.14	44.33	-	44.47	-	48.00	-	-3.53	-
3	1.586	0.20	36.97	-	37.17	-	48.00	-	-10.83	-
4	5.512	0.33	38.05	-	38.38	-	48.00	-	-9.62	-
5	13.938	0.48	35.61	-	36.09	-	48.00	-	-11.91	-
6	21.664	0.77	42.10	-	42.87	-	48.00	-	-5.13	-

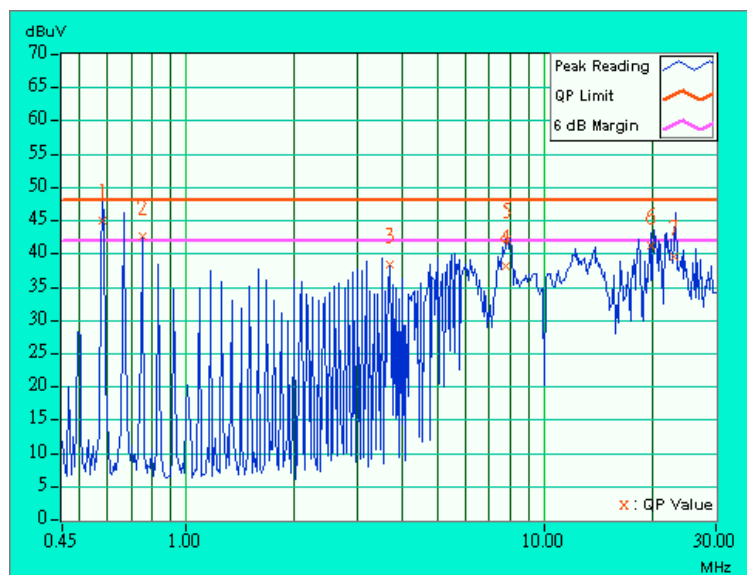
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.581	0.13	43.82	-	43.95	-	48.00	-	-4.05	-
2	0.751	0.16	41.54	-	41.70	-	48.00	-	-6.30	-
3	3.676	0.37	37.30	-	37.67	-	48.00	-	-10.33	-
4	7.754	0.53	37.15	-	37.68	-	48.00	-	-10.32	-
5	7.852	0.53	41.19	-	41.72	-	48.00	-	-6.28	-
6	19.707	0.98	40.15	-	41.13	-	48.00	-	-6.87	-
7	22.883	1.12	38.57	-	39.69	-	48.00	-	-8.31	-

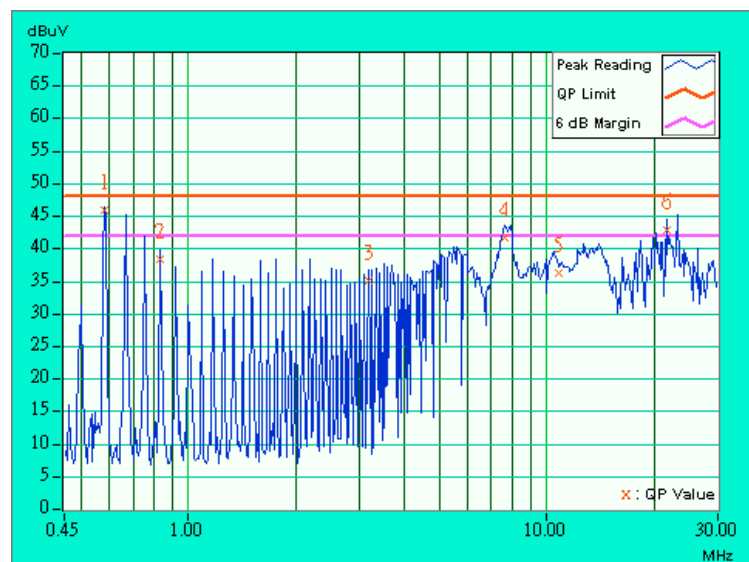
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	45.13	-	45.26	-	48.00	-	-2.74	-
2	0.833	0.17	37.67	-	37.84	-	48.00	-	-10.16	-
3	3.172	0.26	34.42	-	34.68	-	48.00	-	-13.32	-
4	7.602	0.36	40.95	-	41.31	-	48.00	-	-6.69	-
5	10.773	0.42	35.47	-	35.89	-	48.00	-	-12.11	-
6	21.664	0.77	42.10	-	42.87	-	48.00	-	-5.13	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

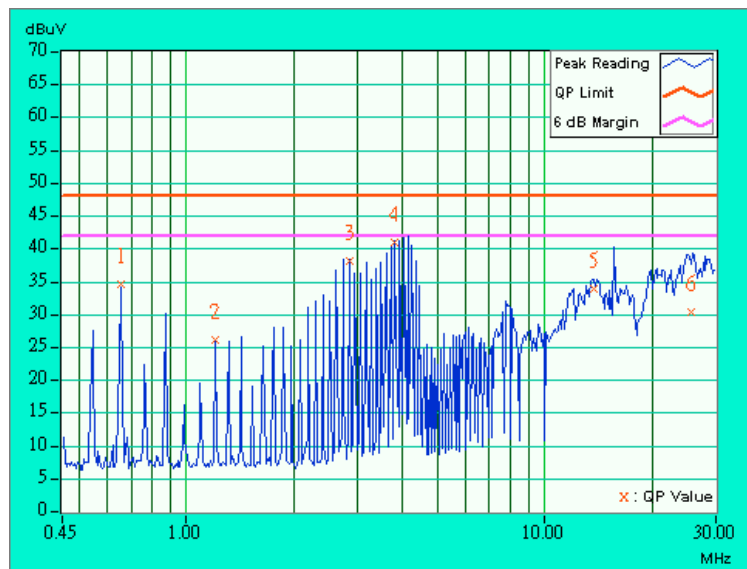


4.1.11 TEST RESULTS (E)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.49	-	33.63	-	48.00	-	-14.37	-
2	1.199	0.20	24.88	-	25.08	-	48.00	-	-22.92	-
3	2.840	0.28	36.87	-	37.15	-	48.00	-	-10.85	-
4	3.820	0.38	39.75	-	40.13	-	48.00	-	-7.87	-
5	13.645	0.67	32.74	-	33.41	-	48.00	-	-14.59	-
6	25.539	1.21	29.28	-	30.49	-	48.00	-	-17.51	-

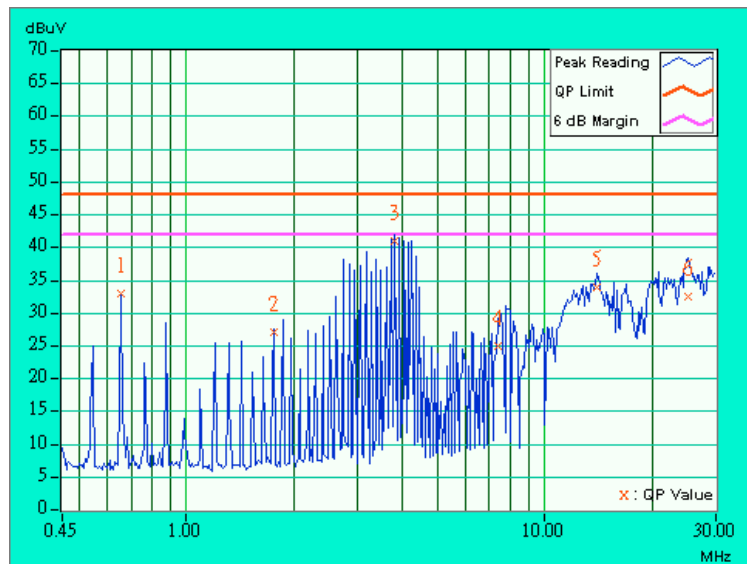
- Remarks:
1. "*": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	32.32	-	32.46	-	48.00	-	-15.54	-
2	1.750	0.20	26.31	-	26.51	-	48.00	-	-21.49	-
3	3.820	0.29	40.31	-	40.60	-	48.00	-	-7.40	-
4	7.422	0.36	24.40	-	24.76	-	48.00	-	-23.24	-
5	13.973	0.48	33.28	-	33.76	-	48.00	-	-14.24	-
6	24.996	0.70	31.78	-	32.48	-	48.00	-	-15.52	-

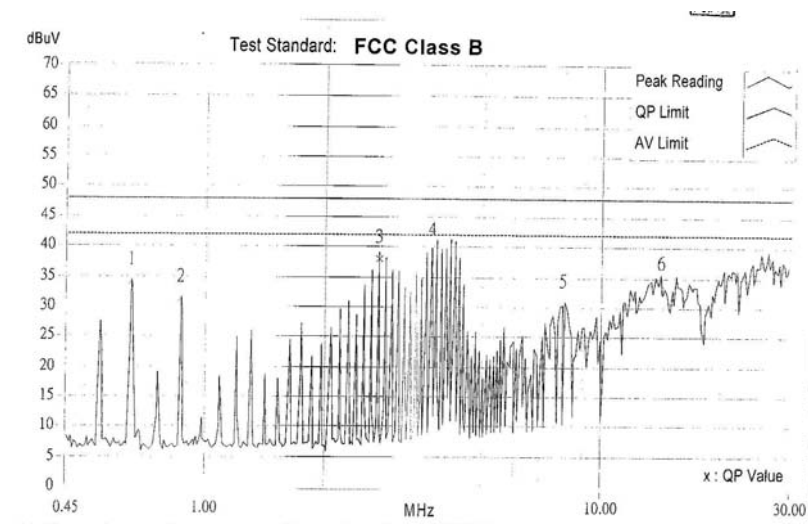
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.53	-	33.67	-	48.00	-	-14.33	-
2	0.872	0.18	30.69	-	30.87	-	48.00	-	-17.13	-
3	2.730	0.27	37.27	-	37.54	-	48.00	-	-10.46	-
4	3.711	0.37	38.69	-	39.06	-	48.00	-	-8.94	-
5	7.973	0.53	30.06	-	30.59	-	48.00	-	-17.41	-
6	14.082	0.68	33.06	-	33.74	-	48.00	-	-14.26	-

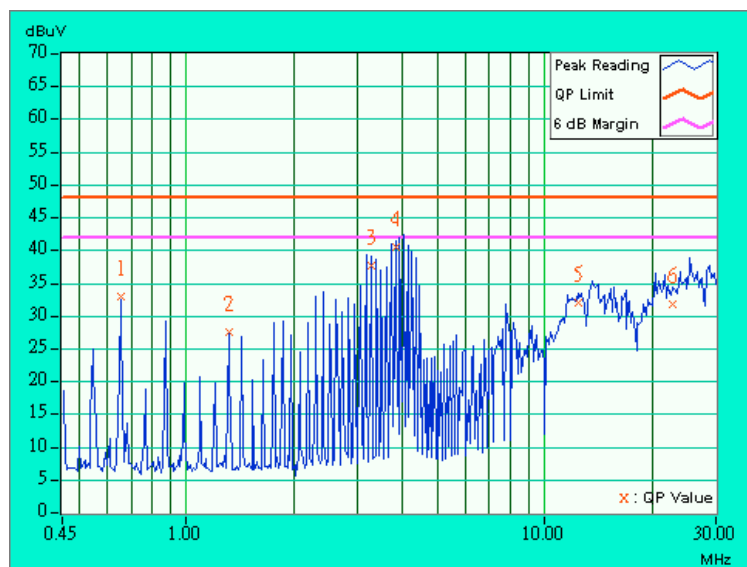
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	32.21	-	32.35	-	48.00	-	-15.65	-
2	1.309	0.20	26.80	-	27.00	-	48.00	-	-21.00	-
3	3.273	0.26	36.85	-	37.11	-	48.00	-	-10.89	-
4	3.824	0.29	39.86	-	40.15	-	48.00	-	-7.85	-
5	12.340	0.45	31.34	-	31.79	-	48.00	-	-16.21	-
6	22.730	0.75	31.01	-	31.76	-	48.00	-	-16.24	-

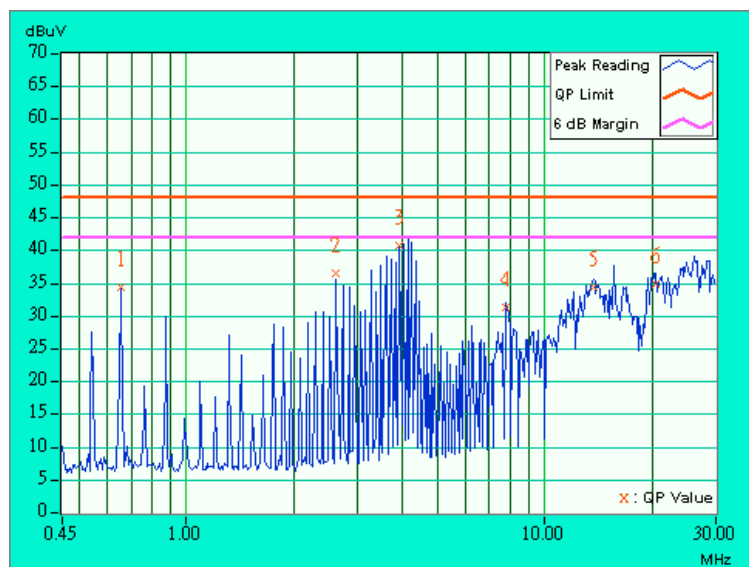
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	33.47	-	33.61	-	48.00	-	-14.39	-
2	2.621	0.26	35.59	-	35.85	-	48.00	-	-12.15	-
3	3.934	0.39	39.75	-	40.14	-	48.00	-	-7.86	-
4	7.750	0.53	30.32	-	30.85	-	48.00	-	-17.15	-
5	13.645	0.67	33.46	-	34.13	-	48.00	-	-13.87	-
6	20.426	1.02	33.79	-	34.81	-	48.00	-	-13.19	-

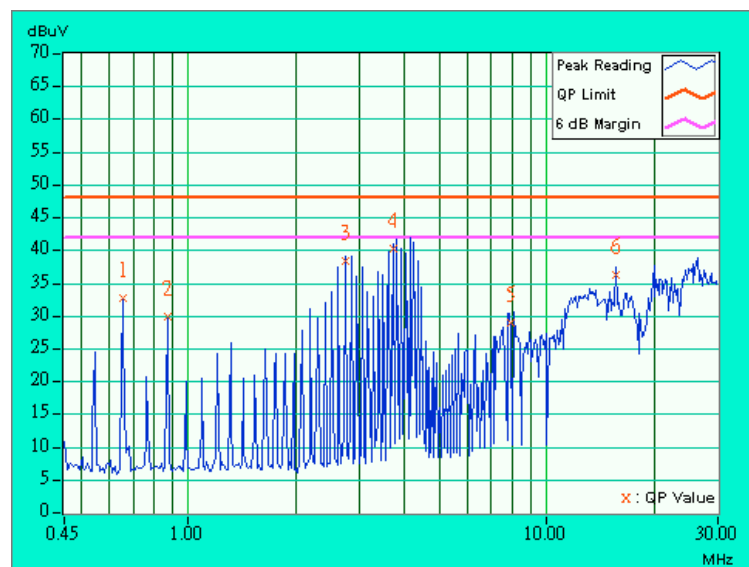
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.653	0.14	32.15	-	32.29	-	48.00	-	-15.71	-
2	0.872	0.18	29.36	-	29.54	-	48.00	-	-18.46	-
3	2.730	0.24	37.93	-	38.17	-	48.00	-	-9.83	-
4	3.711	0.29	39.81	-	40.10	-	48.00	-	-7.90	-
5	7.969	0.37	28.35	-	28.72	-	48.00	-	-19.28	-
6	15.512	0.53	35.75	-	36.28	-	48.00	-	-11.72	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.

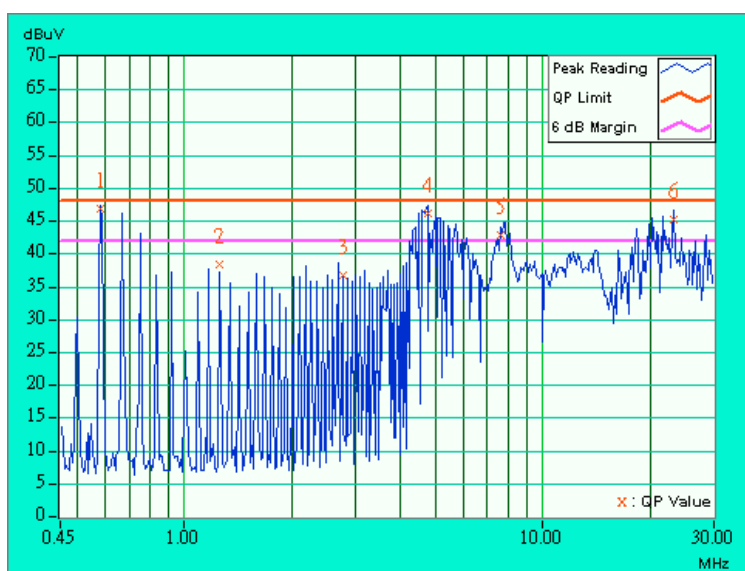


4.1.12 TEST RESULTS (F)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	45.77	-	45.90	-	48.00	-	-2.10	-
2	1.254	0.20	37.31	-	37.51	-	48.00	-	-10.49	-
3	2.762	0.28	35.73	-	36.01	-	48.00	-	-11.99	-
4	4.766	0.43	45.09	-	45.52	-	48.00	-	-2.48	-
5	7.609	0.52	41.70	-	42.22	-	48.00	-	-5.78	-
6	23.129	1.13	44.12	-	45.25	-	48.00	-	-2.75	-

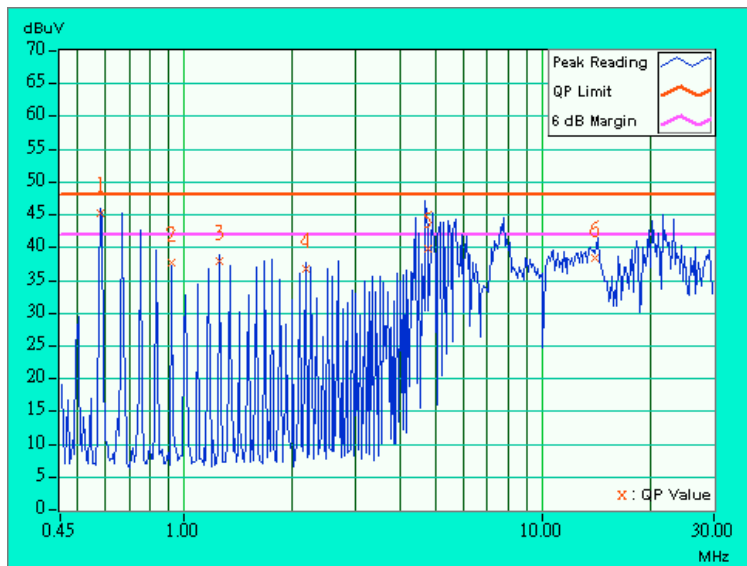
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	44.77	-	44.90	-	48.00	-	-3.10	-
2	0.919	0.19	37.20	-	37.39	-	48.00	-	-10.61	-
3	1.254	0.20	37.53	-	37.73	-	48.00	-	-10.27	-
4	2.172	0.21	36.35	-	36.56	-	48.00	-	-11.44	-
5	4.773	0.31	39.36	-	39.67	-	48.00	-	-8.33	-
6	13.969	0.48	37.94	-	38.42	-	48.00	-	-9.58	-

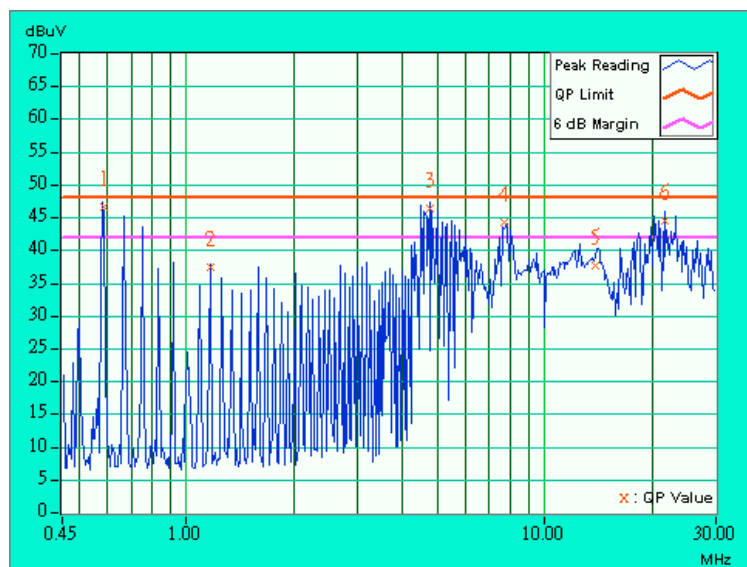
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.587	0.13	45.66	-	45.79	-	48.00	-	-2.21	-
2	1.168	0.20	36.49	-	36.69	-	48.00	-	-11.31	-
3	4.766	0.43	45.41	-	45.84	-	48.00	-	-2.16	-
4	7.695	0.52	43.22	-	43.74	-	48.00	-	-4.26	-
5	13.879	0.68	36.75	-	37.43	-	48.00	-	-10.57	-
6	21.664	1.07	43.39	-	44.46	-	48.00	-	-3.54	-

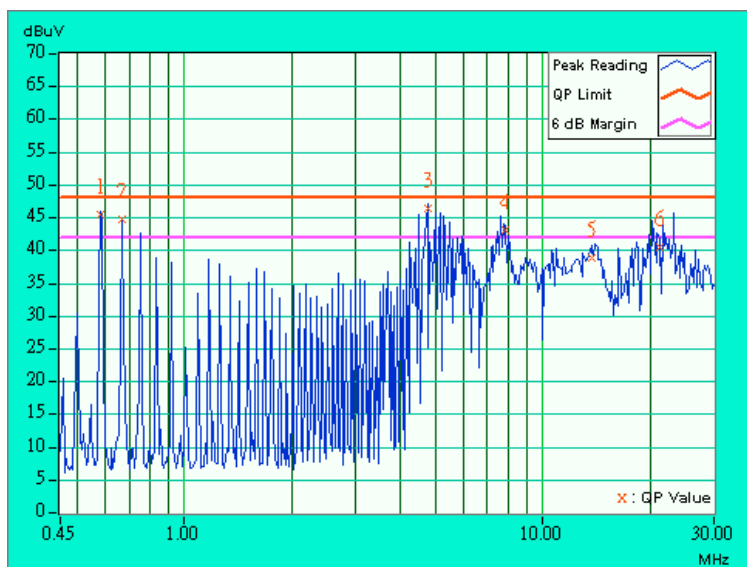
- Remarks:
1. "-": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	44.69	-	44.82	-	48.00	-	-3.18	-
2	0.669	0.14	43.99	-	44.13	-	48.00	-	-3.87	-
3	4.766	0.31	45.55	-	45.86	-	48.00	-	-2.14	-
4	7.859	0.36	42.24	-	42.60	-	48.00	-	-5.40	-
5	13.633	0.47	38.17	-	38.64	-	48.00	-	-9.36	-
6	21.113	0.78	39.71	-	40.49	-	48.00	-	-7.51	-

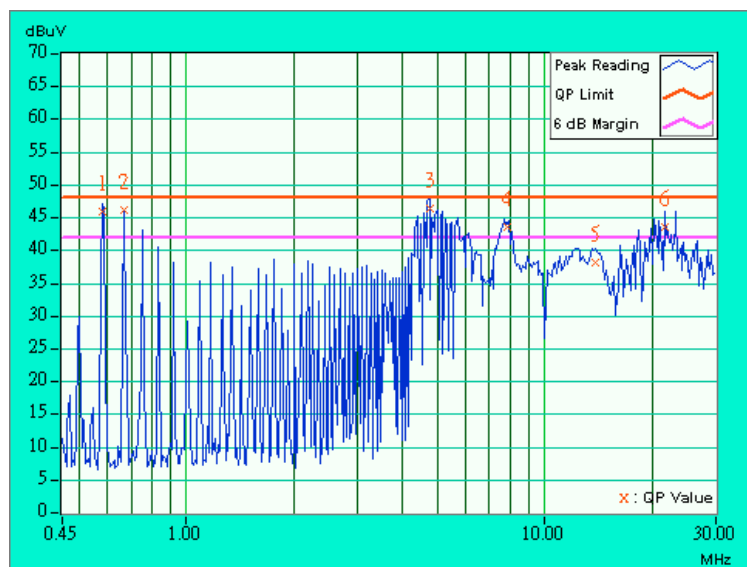
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq. (MHz)	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.582	0.13	44.81	-	44.94	-	48.00	-	-3.06	-
2	0.669	0.14	45.06	-	45.20	-	48.00	-	-2.80	-
3	4.765	0.43	45.25	-	45.68	-	48.00	-	-2.32	-
4	7.859	0.53	42.48	-	43.01	-	48.00	-	-4.99	-
5	13.883	0.68	37.19	-	37.87	-	48.00	-	-10.13	-
6	21.660	1.07	42.64	-	43.71	-	48.00	-	-4.29	-

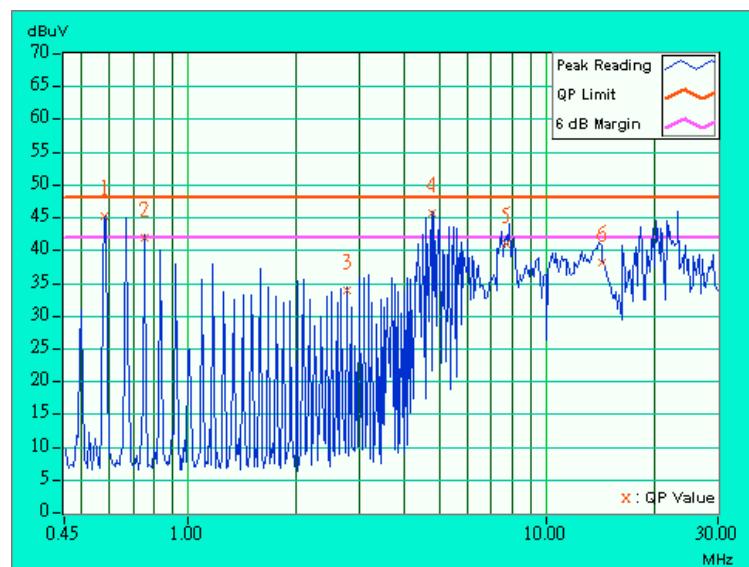
- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	30 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	QP.	AV.	QP.	AV.	QP.	AV.	QP.	AV.
1	0.583	0.13	44.77	-	44.90	-	48.00	-	-3.10	-
2	0.751	0.16	41.52	-	41.68	-	48.00	-	-6.32	-
3	2.758	0.24	33.42	-	33.66	-	48.00	-	-14.34	-
4	4.766	0.31	45.35	-	45.66	-	48.00	-	-2.34	-
5	7.688	0.36	40.50	-	40.86	-	48.00	-	-7.14	-
6	14.211	0.48	37.75	-	38.23	-	48.00	-	-9.77	-

- Remarks:
1. "**": Undetectable
 2. QP. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": NA
 4. The emission levels of other frequencies were very low against the limit.
 5. Margin value = Emission level - Limit value
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field Strength of Fundamental	
	uV/m	dBuV/m
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above 960	500	54.0

NOTE:

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
* HP Spectrum Analyzer	8590L	3544A01176	May 13, 2003
* HP Preamplifier	8447D	2944A08485	Oct. 30, 2002
* HP Preamplifier	8449B	3008A01201	Dec. 06, 2002
* HP Preamplifier	8449B	3008A01292	Aug. 21, 2002
* ROHDE & SCHWARZ TEST RECEIVER	ESMI	839013/007 839379/002	Jan. 27, 2003
SCHWARZBECK Tunable Dipole Antenna	VHA 9103 UHA 9105	E101051 E101055	Nov. 23, 2002
* CHASE BILOG Antenna	CBL6112A	2221	Aug. 2, 2002
* SCHWARZBECK Horn Antenna	BBHA9120-D1	D130	July 3, 2003
* EMCO Horn Antenna	3115	9312-4192	April 9, 2003
* EMCO Turn Table	1060	1115	NA
* SHOSHIN Tower	AP-4701	A6Y005	NA
* Software	AS61D4	NA	NA
* ANRITSU RF Switches	MP59B	M35046	Aug. 2, 2002
* TIMES RF cable	LMR-600	CABLE-ST5-01	Aug. 2, 2002
Open Field Test Site	Site 5	ADT-R05	July 28, 2002
VCCI Site Registration No.	Site 5	R-1039	NA

NOTE: 1. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

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

3. "*" = These equipment are used for the final measurement.

4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.



4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

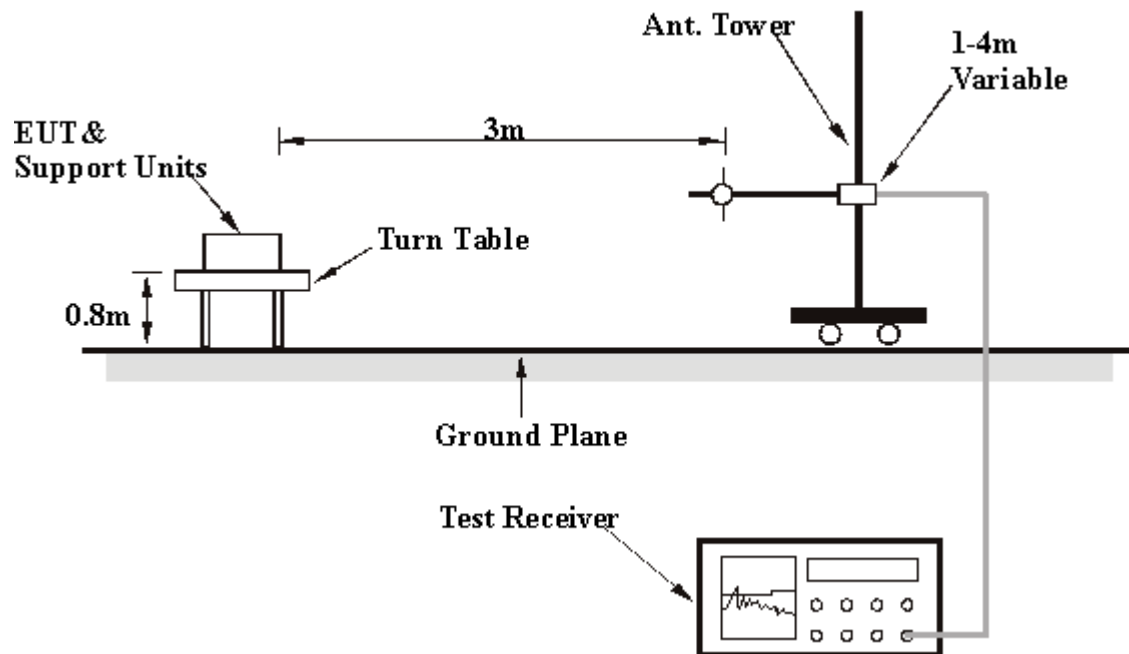
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 300 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS (A)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	23.9 QP	43.50	-19.60	1.54H	358	41.00	10.30	1.31	28.71	17.10
2	200.00	36.5 QP	43.50	-7.00	1.68H	171	54.83	8.98	1.40	28.71	18.33
3	225.00	31.2 QP	46.00	-14.80	1.54H	116	47.95	10.41	1.56	28.71	16.75
4	250.00	36.9 QP	46.00	-9.10	1.48H	154	51.86	12.02	1.73	28.71	14.97
5	264.00	23.6 QP	46.00	-22.40	1.39H	58	37.69	12.89	1.73	28.71	14.10
6	300.00	29.9 QP	46.00	-16.10	1.50H	117	43.55	13.18	1.88	28.71	13.65
7	350.00	29.0 QP	46.00	-17.00	1.26H	41	41.34	14.21	2.12	28.71	12.39
8	352.00	33.8 QP	46.00	-12.20	1.29H	187	46.08	14.31	2.12	28.71	12.28
9	375.00	28.6 QP	46.00	-17.40	1.54H	27	40.04	15.13	2.14	28.71	11.45
10	400.00	28.3 QP	46.00	-17.70	1.10H	194	38.73	16.11	2.17	28.71	10.43
11	440.00	23.5 QP	46.00	-22.50	1.38H	116	33.59	16.32	2.31	28.71	10.09
12	450.00	25.7 QP	46.00	-20.30	1.04H	66	35.70	16.37	2.34	28.71	10.01
13	500.00	35.0 QP	46.00	-11.00	1.15H	187	43.96	17.26	2.49	28.71	8.97
14	525.00	26.8 QP	46.00	-19.20	1.23H	150	35.31	17.59	2.61	28.71	8.52
15	575.00	26.9 QP	46.00	-19.10	1.44H	92	34.54	18.28	2.79	28.71	7.64
16	650.00	28.3 QP	46.00	-17.70	1.77H	175	34.75	19.23	3.03	28.71	6.46
17	700.00	32.3 QP	46.00	-13.70	1.11H	133	38.46	19.31	3.24	28.71	6.17
18	750.00	31.4 QP	46.00	-14.60	1.01H	29	36.59	20.18	3.34	28.71	5.20
19	800.00	28.8 QP	46.00	-17.20	1.00H	97	33.45	20.69	3.38	28.71	4.66
20	900.00	29.6 QP	46.00	-16.40	1.11H	3	33.84	20.80	3.66	28.71	4.25

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	25.9 QP	43.50	-17.60	1.03V	185	43.00	10.30	1.31	28.71	17.10
2	200.00	32.3 QP	43.50	-11.20	1.17V	62	50.63	8.98	1.40	28.71	18.33
3	225.00	26.4 QP	46.00	-19.60	1.35V	62	43.15	10.41	1.56	28.71	16.75
4	250.00	31.8 QP	46.00	-14.20	1.81V	186	46.76	12.02	1.73	28.71	14.96
5	300.00	28.4 QP	46.00	-17.60	1.57V	302	42.05	13.18	1.88	28.71	13.65
6	325.00	24.3 QP	46.00	-21.70	1.50V	340	37.28	13.72	2.00	28.71	12.98
7	350.00	27.6 QP	46.00	-18.40	1.70V	229	39.98	14.21	2.12	28.71	12.38
8	352.00	32.9 QP	46.00	-13.10	1.51V	161	45.18	14.31	2.12	28.71	12.28
9	375.00	23.1 QP	46.00	-22.90	1.51V	54	34.54	15.13	2.14	28.71	11.45
10	396.00	23.8 QP	46.00	-22.20	1.32V	89	34.39	15.96	2.17	28.71	10.60
11	400.00	28.1 QP	46.00	-17.90	1.31V	127	38.53	16.11	2.17	28.71	10.43
12	425.00	30.5 QP	46.00	-15.50	1.22V	201	40.72	16.24	2.26	28.71	10.22
13	450.00	33.1 QP	46.00	-12.90	1.13V	135	43.10	16.37	2.34	28.71	10.00
14	500.00	40.9 QP	46.00	-5.10	1.00V	226	49.86	17.26	2.49	28.71	8.96
15	525.00	28.6 QP	46.00	-17.40	1.16V	161	37.11	17.59	2.61	28.71	8.51
16	550.00	25.3 QP	46.00	-20.70	1.12V	59	33.36	17.93	2.72	28.71	8.06
17	600.00	27.9 QP	46.00	-18.10	1.10V	226	35.15	18.61	2.85	28.71	7.25
18	650.00	30.1 QP	46.00	-15.90	1.03V	3	36.55	19.23	3.03	28.71	6.45
19	675.00	28.3 QP	46.00	-17.70	1.06V	289	34.60	19.27	3.14	28.71	6.30
20	700.00	29.7 QP	46.00	-16.30	1.00V	174	35.86	19.31	3.24	28.71	6.16
21	750.00	34.2 QP	46.00	-11.80	1.29V	111	39.39	20.18	3.34	28.71	5.19
22	800.00	32.8 QP	46.00	-13.20	1.05V	224	37.45	20.69	3.38	28.71	4.65
23	850.00	31.5 QP	46.00	-14.50	1.04V	190	36.12	20.48	3.61	28.71	4.62
24	875.00	29.6 QP	46.00	-16.40	1.01V	142	34.04	20.63	3.63	28.71	4.44
25	950.00	27.9 QP	46.00	-18.10	1.01V	225	31.64	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamplifier Gain - Ant. Factor - Cable loss
(External Preamplifier Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.8 TEST RESULTS (B)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	24.5 QP	43.50	-19.00	1.38H	242	41.60	10.30	1.31	28.71	17.10
2	200.00	37.3 QP	43.50	-6.20	1.63H	115	55.63	8.98	1.40	28.71	18.33
3	225.00	32.3 QP	46.00	-13.70	1.57H	14	49.05	10.41	1.56	28.71	16.75
4	250.00	37.5 QP	46.00	-8.50	1.47H	57	52.46	12.02	1.73	28.71	14.97
5	264.00	24.3 QP	46.00	-21.70	1.37H	217	38.39	12.89	1.73	28.71	14.09
6	300.00	31.0 QP	46.00	-15.00	1.51H	346	44.65	13.18	1.88	28.71	13.65
7	350.00	27.5 QP	46.00	-18.50	1.36H	300	39.88	14.21	2.12	28.71	12.38
8	352.00	34.3 QP	46.00	-11.70	1.25H	207	46.58	14.31	2.12	28.71	12.28
9	375.00	27.3 QP	46.00	-18.70	1.44H	69	38.74	15.13	2.14	28.71	11.45
10	400.00	27.4 QP	46.00	-18.60	1.33H	29	37.83	16.11	2.17	28.71	10.44
11	440.00	21.5 QP	46.00	-24.50	1.44H	158	31.59	16.32	2.31	28.71	10.09
12	450.00	23.4 QP	46.00	-22.60	1.27H	247	33.40	16.37	2.34	28.71	10.00
13	500.00	36.1 QP	46.00	-9.90	1.16H	358	45.06	17.26	2.49	28.71	8.96
14	525.00	27.3 QP	46.00	-18.70	1.08H	311	35.81	17.59	2.61	28.71	8.51
15	575.00	28.4 QP	46.00	-17.60	1.57H	189	36.04	18.28	2.79	28.71	7.64
16	650.00	26.8 QP	46.00	-19.20	1.67H	54	33.25	19.23	3.03	28.71	6.45
17	700.00	33.3 QP	46.00	-12.70	1.08H	48	39.46	19.31	3.24	28.71	6.16
18	750.00	30.4 QP	46.00	-15.60	1.05H	156	35.59	20.18	3.34	28.71	5.19
19	800.00	27.4 QP	46.00	-18.60	1.00H	268	32.05	20.69	3.38	28.71	4.65
20	900.00	30.8 QP	46.00	-15.20	1.06H	3	35.04	20.80	3.66	28.71	4.24

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	26.4 QP	43.50	-17.10	1.44V	60	43.50	10.30	1.31	28.71	17.10
2	200.00	33.5 QP	43.50	-10.00	1.28V	144	51.83	8.98	1.40	28.71	18.33
3	225.00	24.5 QP	46.00	-21.50	1.38V	262	41.25	10.41	1.56	28.71	16.75
4	250.00	29.9 QP	46.00	-16.10	1.55V	349	44.86	12.02	1.73	28.71	14.96
5	300.00	26.9 QP	46.00	-19.10	1.47V	185	40.55	13.18	1.88	28.71	13.65
6	325.00	24.0 QP	46.00	-22.00	1.38V	68	36.98	13.72	2.00	28.71	12.98
7	350.00	29.6 QP	46.00	-16.40	1.50V	41	41.98	14.21	2.12	28.71	12.39
8	375.00	25.1 QP	46.00	-20.90	1.54V	178	36.54	15.13	2.14	28.71	11.44
9	396.00	24.8 QP	46.00	-21.20	1.35V	291	35.39	15.96	2.17	28.71	10.59
10	400.00	29.9 QP	46.00	-16.10	1.28V	349	40.33	16.11	2.17	28.71	10.43
11	425.00	31.0 QP	46.00	-15.00	1.30V	270	41.22	16.24	2.26	28.71	10.22
12	450.00	32.4 QP	46.00	-13.60	1.19V	151	42.40	16.37	2.34	28.71	10.00
13	500.00	38.7 QP	46.00	-7.30	1.09V	42	47.66	17.26	2.49	28.71	8.96
14	525.00	27.3 QP	46.00	-18.70	1.29V	29	35.81	17.59	2.61	28.71	8.51
15	550.00	27.1 QP	46.00	-18.90	1.36V	132	35.16	17.93	2.72	28.71	8.06
16	600.00	26.0 QP	46.00	-20.00	1.08V	249	33.25	18.61	2.85	28.71	7.25
17	650.00	31.1 QP	46.00	-14.90	1.04V	335	37.55	19.23	3.03	28.71	6.45
18	700.00	28.4 QP	46.00	-17.60	1.00V	237	34.56	19.31	3.24	28.71	6.16
19	750.00	35.0 QP	46.00	-11.00	1.16V	140	40.19	20.18	3.34	28.71	5.19
20	800.00	32.3 QP	46.00	-13.70	1.18V	36	36.95	20.69	3.38	28.71	4.66
21	850.00	30.0 QP	46.00	-16.00	1.06V	47	34.62	20.48	3.61	28.71	4.63
22	875.00	30.4 QP	46.00	-15.60	1.08V	164	34.84	20.63	3.63	28.71	4.44
23	950.00	26.8 QP	46.00	-19.20	1.00V	262	30.54	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.9 TEST RESULTS

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	54.0 PK	74.00	-20.00	1.08H	76	58.80	25.20	4.86	34.90	4.84
2	2038.00	51.4 AV	54.00	-2.60	1.08H	76	56.20	25.20	4.86	34.90	4.84
3	*2412.00	84.5 AV	-	-	1.65H	272	52.30	27.11	5.10	0.00	-32.21
4	*2412.00	93.7 PK	-	-	1.65H	272	61.50	27.11	5.10	0.00	-32.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	53.7 PK	74.00	-20.30	1.99V	223	58.50	25.20	4.86	34.90	4.84
2	2038.00	51.2 AV	54.00	-2.80	1.99V	223	56.00	25.20	4.86	34.90	4.84
3	*2412.00	97.0 PK	-	-	1.90V	215	64.80	27.11	5.10	0.00	-32.21
4	*2412.00	89.1 AV	-	-	1.90V	215	56.90	27.11	5.10	0.00	-32.21

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	54.3 PK	74.00	-19.7	1.12H	142	58.80	25.41	4.96	34.90	4.53
2	2063.00	51.7 AV	54.00	-2.30	1.12H	142	56.20	25.41	4.96	34.90	4.53
3	*2437.00	86.5 AV	-	-	1.69H	75	54.10	27.33	5.08	0.00	-32.41
4	*2437.00	95.7 PK	-	-	1.69H	75	63.30	27.33	5.08	0.00	-32.41

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	53.7 PK	74.00	-20.30	1.29V	205	58.20	25.41	4.96	34.90	4.53
2	2063.00	51.4 AV	54.00	-2.60	1.29V	205	55.90	25.41	4.96	34.90	4.53
3	*2437.00	95.4 PK	-	-	1.82V	164	63.00	27.33	5.08	0.00	-32.40
4	*2437.00	86.9 AV	-	-	1.82V	164	54.50	27.33	5.08	0.00	-32.40

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	51.7 AV	54.00	-2.30	1.02H	59	56.00	25.62	5.02	34.90	4.26
2	2088.00	53.9 PK	74.00	-20.10	1.02H	59	58.20	25.62	5.02	34.90	4.26
3	*2462.00	94.4 PK	-	-	1.59H	3	62.00	27.33	5.08	0.00	-32.40
4	*2462.00	86.2 AV	-	-	1.59H	3	53.80	27.33	5.08	0.00	-32.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	53.7 PK	74.00	-20.30	1.82V	194	58.00	25.62	5.02	34.90	4.26
2	2088.00	51.8 AV	54.00	-2.20	1.82V	194	56.10	25.62	5.02	34.90	4.26
3	*2462.00	96.1 PK	-	-	1.69V	175	63.70	27.33	5.08	0.00	-32.41
4	*2462.00	87.6 AV	-	-	1.69V	175	55.20	27.33	5.08	0.00	-32.41

- NOTE:**
1. Emission level= Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

4.2.10 TEST RESULTS (C)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	22.0 QP	43.50	-21.50	1.27H	27	39.10	10.30	1.31	28.71	17.10
2	176.00	19.9 QP	43.50	-23.60	1.44H	86	38.16	9.08	1.37	28.71	18.26
3	200.00	30.9 QP	43.50	-12.60	1.95H	182	49.23	8.98	1.40	28.71	18.33
4	250.00	32.4 QP	46.00	-13.60	1.80H	260	47.36	12.02	1.73	28.71	14.96
5	264.00	20.3 QP	46.00	-25.70	1.68H	2	34.39	12.89	1.73	28.71	14.09
6	300.00	31.4 QP	46.00	-14.60	1.80H	319	45.05	13.18	1.88	28.71	13.65
7	325.00	30.6 QP	46.00	-15.40	1.59H	342	43.58	13.72	2.00	28.71	12.98
8	350.00	32.1 QP	46.00	-13.90	1.54H	251	44.48	14.21	2.12	28.71	12.38
9	396.00	26.4 QP	46.00	-19.60	1.39H	174	36.99	15.96	2.17	28.71	10.59
10	400.00	23.6 QP	46.00	-22.40	1.45H	138	34.03	16.11	2.17	28.71	10.43
11	440.00	24.6 QP	46.00	-21.40	1.54H	218	34.69	16.32	2.31	28.71	10.09
12	450.00	33.4 QP	46.00	-12.60	1.46H	292	43.40	16.37	2.34	28.71	10.00
13	500.00	30.4 QP	46.00	-15.60	1.32H	3	39.36	17.26	2.49	28.71	8.96
14	525.00	28.5 QP	46.00	-17.50	1.18H	336	37.01	17.59	2.61	28.71	8.51
15	550.00	26.7 QP	46.00	-19.30	1.11H	283	34.76	17.93	2.72	28.71	8.06
16	572.00	28.5 QP	46.00	-17.50	1.02H	205	36.17	18.25	2.79	28.71	7.67
17	625.00	28.6 QP	46.00	-17.40	1.46H	65	35.46	18.91	2.94	28.71	6.87
18	700.00	32.4 QP	46.00	-13.60	1.41H	23	38.56	19.31	3.24	28.71	6.17
19	750.00	30.0 QP	46.00	-16.00	1.26H	131	35.19	20.18	3.34	28.71	5.19
20	800.00	27.7 QP	46.00	-18.30	1.16H	206	32.35	20.69	3.38	28.71	4.65
21	850.00	31.5 QP	46.00	-14.50	1.20H	335	36.12	20.48	3.61	28.71	4.62
22	950.00	26.8 QP	46.00	-19.20	1.03H	302	30.54	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	175.00	30.4 QP	43.50	-13.10	1.74V	0	48.66	9.08	1.37	28.71	18.26
2	200.00	34.1 QP	43.50	-9.40	1.55V	242	52.43	8.98	1.40	28.71	18.33
3	225.00	32.9 QP	46.00	-13.10	1.45V	127	49.65	10.41	1.56	28.71	16.75
4	250.00	27.6 QP	46.00	-18.40	1.49V	1	42.56	12.02	1.73	28.71	14.97
5	275.00	26.6 QP	46.00	-19.40	1.54V	36	40.93	12.59	1.79	28.71	14.34
6	300.00	21.7 QP	46.00	-24.30	1.64V	102	35.35	13.18	1.88	28.71	13.65
7	308.00	26.8 QP	46.00	-19.20	1.60V	129	40.21	13.38	1.92	28.71	13.41
8	336.00	23.4 QP	46.00	-22.60	1.43V	358	36.14	13.92	2.05	28.71	12.74
9	350.00	28.9 QP	46.00	-17.10	1.60V	223	41.28	14.21	2.12	28.71	12.38
10	396.00	26.8 QP	46.00	-19.20	1.32V	34	37.39	15.96	2.17	28.71	10.60
11	450.00	31.3 QP	46.00	-14.70	1.36V	107	41.30	16.37	2.34	28.71	10.00
12	475.00	31.3 QP	46.00	-14.70	1.20V	166	40.76	16.83	2.42	28.71	9.46
13	500.00	33.7 QP	46.00	-12.30	1.15V	239	42.66	17.26	2.49	28.71	8.96
14	550.00	30.6 QP	46.00	-15.40	1.30V	314	38.66	17.93	2.72	28.71	8.06
15	600.00	27.4 QP	46.00	-18.60	1.54V	2	34.65	18.61	2.85	28.71	7.25
16	625.00	28.3 QP	46.00	-17.70	1.17V	254	35.16	18.91	2.94	28.71	6.86
17	650.00	28.6 QP	46.00	-17.40	1.08V	108	35.05	19.23	3.03	28.71	6.45
18	700.00	25.9 QP	46.00	-20.10	1.12V	19	32.06	19.31	3.24	28.71	6.17
19	750.00	34.3 QP	46.00	-11.70	1.17V	217	39.49	20.18	3.34	28.71	5.19
20	800.00	30.1 QP	46.00	-15.90	1.13V	285	34.75	20.69	3.38	28.71	4.65
21	875.00	26.1 QP	46.00	-19.90	1.22V	236	30.54	20.63	3.63	28.71	4.44
22	950.00	26.9 QP	46.00	-19.10	1.00V	330	30.64	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.11 TEST RESULTS (D)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	24.6 QP	43.50	-18.90	1.03H	246	41.70	10.30	1.31	28.71	17.10
2	200.00	33.9 QP	43.50	-9.60	1.15H	187	52.23	8.98	1.40	28.71	18.33
3	250.00	34.5 QP	46.00	-11.50	1.52H	107	49.46	12.02	1.73	28.71	14.96
4	300.00	30.6 QP	46.00	-15.40	1.71H	57	44.25	13.18	1.88	28.71	13.66
5	325.00	25.4 QP	46.00	-20.60	1.62H	255	38.38	13.72	2.00	28.71	12.98
6	350.00	36.7 QP	46.00	-9.30	1.57H	354	49.08	14.21	2.12	28.71	12.39
7	396.00	27.3 QP	46.00	-18.70	1.44H	301	37.89	15.96	2.17	28.71	10.59
8	400.00	28.6 QP	46.00	-17.40	1.26H	40	39.03	16.11	2.17	28.71	10.44
9	440.00	24.6 QP	46.00	-21.40	1.54H	160	34.69	16.32	2.31	28.71	10.09
10	450.00	30.2 QP	46.00	-15.80	1.34H	12	40.20	16.37	2.34	28.71	10.01
11	500.00	26.6 QP	46.00	-19.40	1.22H	351	35.56	17.26	2.49	28.71	8.97
12	528.00	24.3 QP	46.00	-21.70	1.14H	239	32.77	17.62	2.62	28.71	8.48
13	550.00	27.2 QP	46.00	-18.80	1.22H	176	35.26	17.93	2.72	28.71	8.07
14	575.00	25.3 QP	46.00	-20.70	1.43H	37	32.94	18.28	2.79	28.71	7.65
15	600.00	30.4 QP	46.00	-15.60	1.08H	56	37.65	18.61	2.85	28.71	7.26
16	650.00	32.4 QP	46.00	-13.60	1.04H	158	38.85	19.23	3.03	28.71	6.46
17	700.00	32.6 QP	46.00	-13.40	1.16H	268	38.76	19.31	3.24	28.71	6.17
18	750.00	25.3 QP	46.00	-20.70	1.64H	12	30.49	20.18	3.34	28.71	5.20
19	800.00	33.2 QP	46.00	-12.80	1.29H	222	37.85	20.69	3.38	28.71	4.66
20	850.00	36.4 QP	46.00	-9.60	1.54H	131	41.02	20.48	3.61	28.71	4.63
21	950.00	33.7 QP	46.00	-12.30	1.02H	153	37.44	21.20	3.77	28.71	3.75

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	150.00	24.8 QP	43.50	-18.70	1.02V	153	41.90	10.30	1.31	28.71	17.10
2	175.00	33.4 QP	43.50	-10.10	1.15V	244	51.66	9.08	1.37	28.71	18.26
3	200.00	34.1 QP	43.50	-9.40	1.51V	306	52.43	8.98	1.40	28.71	18.34
4	225.00	36.4 QP	46.00	-9.60	1.38V	334	53.15	10.41	1.56	28.71	16.75
5	250.00	30.7 QP	46.00	-15.30	1.45V	239	45.66	12.02	1.73	28.71	14.96
6	264.00	23.3 QP	46.00	-22.70	1.38V	152	37.39	12.89	1.73	28.71	14.09
7	275.00	24.9 QP	46.00	-21.10	1.43V	358	39.23	12.59	1.79	28.71	14.34
8	300.00	24.3 QP	46.00	-21.70	1.55V	12	37.95	13.18	1.88	28.71	13.66
9	350.00	29.5 QP	46.00	-16.50	1.45V	96	41.88	14.21	2.12	28.71	12.39
10	396.00	27.4 QP	46.00	-18.60	1.33V	223	37.99	15.96	2.17	28.71	10.59
11	400.00	28.6 QP	46.00	-17.40	1.23V	323	39.03	16.11	2.17	28.71	10.43
12	440.00	24.1 QP	46.00	-21.90	1.17V	334	34.19	16.32	2.31	28.71	10.09
13	450.00	33.0 QP	46.00	-13.00	1.09V	213	43.00	16.37	2.34	28.71	10.00
14	475.00	28.3 QP	46.00	-17.70	1.22V	14	37.76	16.83	2.42	28.71	9.46
15	500.00	25.1 QP	46.00	-20.90	1.49V	349	34.06	17.26	2.49	28.71	8.96
16	550.00	28.6 QP	46.00	-17.40	1.29V	160	36.66	17.93	2.72	28.71	8.06
17	600.00	26.5 QP	46.00	-19.50	1.10V	307	33.75	18.61	2.85	28.71	7.25
18	625.00	24.0 QP	46.00	-22.00	1.45V	161	30.86	18.91	2.94	28.71	6.86
19	650.00	30.4 QP	46.00	-15.60	1.10V	13	36.85	19.23	3.03	28.71	6.46
20	750.00	24.8 QP	46.00	-21.20	1.59V	94	29.99	20.18	3.34	28.71	5.20
21	800.00	31.6 QP	46.00	-14.40	1.14V	190	36.25	20.69	3.38	28.71	4.65
22	875.00	27.6 QP	46.00	-18.40	1.06V	266	32.04	20.63	3.63	28.71	4.44

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.12 TEST RESULTS

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	43.1 PK	74.00	-30.90	1.32H	29	47.90	25.20	4.86	34.90	4.84
2	2038.00	34.1 AV	54.00	-19.90	1.32H	29	38.90	25.20	4.86	34.90	4.84
3	*2412.00	93.0 PK	-	-	1.09H	102	60.80	27.11	5.10	0.00	-32.21
4	*2412.00	85.6 AV	-	-	1.09H	102	53.40	27.11	5.10	0.00	-32.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	42.4 AV	54.00	-11.60	1.25V	178	47.20	25.20	4.86	34.90	4.84
2	2038.00	46.6 PK	74.00	-27.40	1.25V	178	51.40	25.20	4.86	34.90	4.84
3	*2412.00	104.5 PK	-	-	1.04V	152	72.30	27.11	5.10	0.00	-32.21
4	*2412.00	98.8 AV	-	-	1.04V	152	66.60	27.11	5.10	0.00	-32.21

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	35.0 AV	54.00	-19.00	1.70H	41	39.50	25.41	4.96	34.90	4.53
2	2063.00	44.1 PK	74.00	-29.90	1.70H	41	48.60	25.41	4.96	34.90	4.53
3	*2437.00	84.6 AV	-	-	1.06H	96	52.20	27.33	5.08	0.00	-32.40
4	*2437.00	92.5 PK	-	-	1.06H	96	60.10	27.33	5.08	0.00	-32.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	43.6 AV	54.00	-10.40	1.33V	190	48.10	25.41	4.96	34.90	4.53
2	2063.00	47.5 PK	74.00	-26.50	1.33V	190	52.00	25.41	4.96	34.90	4.53
3	*2437.00	97.7 AV	-	-	1.01V	134	65.30	27.33	5.08	0.00	-32.40
4	*2437.00	103.4 PK	-	-	1.01V	134	71.00	27.33	5.08	0.00	-32.40

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	33.2 AV	54.00	-20.80	1.21H	17	37.50	25.62	5.02	34.90	4.26
2	2088.00	42.7 PK	74.00	-31.30	1.21H	17	47.00	25.62	5.02	34.90	4.26
3	*2462.00	92.0 PK	-	-	1.01H	113	59.60	27.33	5.08	0.00	-32.41
4	*2462.00	83.7 AV	-	-	1.01H	113	51.30	27.33	5.08	0.00	-32.41

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	46.8 PK	74.00	-27.20	1.24V	167	51.10	25.62	5.02	34.90	4.26
2	2088.00	42.5 AV	54.00	-11.50	1.24V	167	46.80	25.62	5.02	34.90	4.26
3	*2462.00	97.1 AV	-	-	1.12V	142	64.70	27.33	5.08	0.00	-32.40
4	*2462.00	102.5 PK	-	-	1.12V	142	70.10	27.33	5.08	0.00	-32.40

- NOTE:**
1. Emission level= Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

4.2.13 TEST RESULTS (E)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	33.6 QP	43.50	-9.90	1.30H	311	49.61	11.47	1.23	28.71	16.01
2	150.00	32.9 QP	43.50	-10.60	1.34H	263	50.00	10.30	1.31	28.71	17.10
3	200.00	31.7 QP	43.50	-11.80	1.36H	165	50.03	8.98	1.40	28.71	18.33
4	225.00	26.8 QP	46.00	-19.20	1.21H	268	43.55	10.41	1.56	28.71	16.75
5	250.00	33.8 QP	46.00	-12.20	1.15H	2	48.76	12.02	1.73	28.71	14.96
6	300.00	34.8 QP	46.00	-11.20	1.39H	279	48.45	13.18	1.88	28.71	13.65
7	352.00	18.7 QP	46.00	-27.30	1.32H	132	30.98	14.31	2.12	28.71	12.28
8	375.00	27.0 QP	46.00	-19.00	1.27H	168	38.44	15.13	2.14	28.71	11.44
9	425.00	30.9 QP	46.00	-15.10	1.82H	175	41.12	16.24	2.26	28.71	10.22
10	450.00	29.5 QP	46.00	-16.50	1.75H	227	39.50	16.37	2.34	28.71	10.00
11	484.00	25.3 QP	46.00	-20.70	1.43H	178	34.61	16.96	2.44	28.71	9.31
12	500.00	32.8 QP	46.00	-13.20	2.14H	204	41.76	17.26	2.49	28.71	8.96
13	525.00	25.3 QP	46.00	-20.70	1.89H	139	33.81	17.59	2.61	28.71	8.51
14	572.00	24.3 QP	46.00	-21.70	1.37H	210	31.97	18.25	2.79	28.71	7.67
15	625.00	28.9 QP	46.00	-17.10	1.43H	145	35.76	18.91	2.94	28.71	6.86
16	650.00	28.9 QP	46.00	-17.10	1.51H	210	35.35	19.23	3.03	28.71	6.45
17	675.00	26.7 QP	46.00	-19.30	1.18H	220	33.00	19.27	3.14	28.71	6.30
18	700.00	30.4 QP	46.00	-15.60	1.06H	176	36.56	19.31	3.24	28.71	6.16
19	750.00	29.7 QP	46.00	-16.30	1.27H	238	34.89	20.18	3.34	28.71	5.19
20	950.00	28.6 QP	46.00	-17.40	1.34H	188	32.34	21.20	3.77	28.71	3.74

- NOTE:** 1 Emission level = Raw Value - Correction Factor
2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
3 The other emission levels were very low against the limit.
4 Margin value = Emission level - Limit value



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	34.8 QP	43.50	-8.70	1.02V	76	50.81	11.47	1.23	28.71	16.01
2	150.00	32.3 QP	43.50	-11.20	1.03V	168	49.40	10.30	1.31	28.71	17.10
3	200.00	29.9 QP	43.50	-13.60	1.00V	250	48.23	8.98	1.40	28.71	18.33
4	250.00	28.9 QP	46.00	-17.10	1.70V	14	43.86	12.02	1.73	28.71	14.96
5	300.00	24.6 QP	46.00	-21.40	1.30V	283	38.25	13.18	1.88	28.71	13.65
6	375.00	30.6 QP	46.00	-15.40	1.29V	178	42.04	15.13	2.14	28.71	11.44
7	400.00	35.9 QP	46.00	-10.10	1.33V	248	46.33	16.11	2.17	28.71	10.43
8	425.00	28.6 QP	46.00	-17.40	1.10V	161	38.82	16.24	2.26	28.71	10.22
9	450.00	30.0 QP	46.00	-16.00	1.39V	190	40.00	16.37	2.34	28.71	10.00
10	500.00	30.9 QP	46.00	-15.10	2.21V	136	39.86	17.26	2.49	28.71	8.96
11	550.00	27.6 QP	46.00	-18.40	1.68V	218	35.66	17.93	2.72	28.71	8.06
12	600.00	25.3 QP	46.00	-20.70	1.65V	142	32.55	18.61	2.85	28.71	7.25
13	625.00	26.1 QP	46.00	-19.90	1.73V	108	32.96	18.91	2.94	28.71	6.86
14	650.00	27.0 QP	46.00	-19.00	1.40V	164	33.45	19.23	3.03	28.71	6.45
15	700.00	27.3 QP	46.00	-18.70	1.44V	194	33.46	19.31	3.24	28.71	6.16
16	750.00	28.6 QP	46.00	-17.40	1.55V	253	33.79	20.18	3.34	28.71	5.19
17	800.00	27.1 QP	46.00	-18.90	1.11V	135	31.75	20.69	3.38	28.71	4.65
18	950.00	28.3 QP	46.00	-17.70	1.00V	202	32.04	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value



4.2.14 TEST RESULTS (F)

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	32.4 QP	43.50	-11.10	1.23H	294	48.45	11.47	1.23	28.71	16.01
2	150.00	33.0 QP	43.50	-10.50	1.28H	209	50.10	10.30	1.31	28.71	17.10
3	200.00	28.6 QP	43.50	-14.90	1.29H	126	46.93	8.98	1.40	28.71	18.33
4	250.00	32.3 QP	46.00	-13.70	1.20H	12	47.26	12.02	1.73	28.71	14.96
5	300.00	35.6 QP	46.00	-10.40	1.33H	117	49.25	13.18	1.88	28.71	13.65
6	352.00	17.4 QP	46.00	-28.60	1.30H	205	29.68	14.31	2.12	28.71	12.28
7	375.00	24.1 QP	46.00	-21.90	1.26H	284	35.54	15.13	2.14	28.71	11.44
8	400.00	26.3 QP	46.00	-19.70	1.33H	3	36.73	16.11	2.17	28.71	10.43
9	425.00	31.1 QP	46.00	-14.90	1.09H	246	41.32	16.24	2.26	28.71	10.22
10	450.00	27.5 QP	46.00	-18.50	1.55H	148	37.50	16.37	2.34	28.71	10.00
11	484.00	21.3 QP	46.00	-24.70	1.61H	44	30.61	16.96	2.44	28.71	9.31
12	500.00	33.9 QP	46.00	-12.10	1.91H	149	42.86	17.26	2.49	28.71	8.96
13	525.00	24.3 QP	46.00	-21.70	1.43H	270	32.81	17.59	2.61	28.71	8.51
14	550.00	33.3 QP	46.00	-12.70	1.38H	332	41.36	17.93	2.72	28.71	8.06
15	572.00	21.8 QP	46.00	-24.20	1.41H	348	29.47	18.25	2.79	28.71	7.67
16	625.00	29.9 QP	46.00	-16.10	1.20H	229	36.76	18.91	2.94	28.71	6.86
17	675.00	26.4 QP	46.00	-19.60	1.12H	151	32.70	19.27	3.14	28.71	6.30
18	700.00	31.7 QP	46.00	-14.30	1.03H	67	37.86	19.31	3.24	28.71	6.16
19	750.00	32.1 QP	46.00	-13.90	1.00H	46	37.29	20.18	3.34	28.71	5.19
20	950.00	29.1 QP	46.00	-16.90	1.05H	133	32.84	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	30-1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	125.00	29.5 QP	43.50	-14.00	1.02V	3	45.51	11.47	1.23	28.71	16.01
2	150.00	33.4 QP	43.50	-10.10	1.01V	249	50.50	10.30	1.31	28.71	17.10
3	200.00	30.0 QP	43.50	-13.50	1.09V	168	48.33	8.98	1.40	28.71	18.33
4	225.00	27.7 QP	46.00	-18.30	1.15V	96	44.45	10.41	1.56	28.71	16.75
5	250.00	33.0 QP	46.00	-13.00	1.20V	31	47.96	12.02	1.73	28.71	14.96
6	300.00	35.1 QP	46.00	-10.90	1.36V	37	48.75	13.18	1.88	28.71	13.65
7	352.00	21.3 QP	46.00	-24.70	1.46V	136	33.58	14.31	2.12	28.71	12.28
8	375.00	30.6 QP	46.00	-15.40	1.29V	233	42.04	15.13	2.14	28.71	11.44
9	425.00	31.1 QP	46.00	-14.90	1.33V	310	41.32	16.24	2.26	28.71	10.22
10	450.00	28.4 QP	46.00	-17.60	1.41V	339	38.40	16.37	2.34	28.71	10.00
11	484.00	26.4 QP	46.00	-19.60	1.36V	268	35.71	16.96	2.44	28.71	9.31
12	500.00	33.1 QP	46.00	-12.90	1.36V	219	42.06	17.26	2.49	28.71	8.96
13	525.00	26.4 QP	46.00	-19.60	1.23V	263	34.91	17.59	2.61	28.71	8.51
14	572.00	23.3 QP	46.00	-22.70	1.27V	331	30.97	18.25	2.79	28.71	7.67
15	625.00	29.4 QP	46.00	-16.60	1.10V	321	36.26	18.91	2.94	28.71	6.86
16	650.00	26.8 QP	46.00	-19.20	1.24V	235	33.25	19.23	3.03	28.71	6.45
17	675.00	27.3 QP	46.00	-18.70	1.19V	144	33.60	19.27	3.14	28.71	6.30
18	750.00	28.6 QP	46.00	-17.40	1.13V	1	33.79	20.18	3.34	28.71	5.19
19	800.00	26.8 QP	46.00	-19.20	1.22V	27	31.45	20.69	3.38	28.71	4.65
20	950.00	28.3 QP	46.00	-17.70	1.07V	118	32.04	21.20	3.77	28.71	3.74

- NOTE:**
- 1 Emission level = Raw Value - Correction Factor
 - 2 Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 - 3 The other emission levels were very low against the limit.
 - 4 Margin value = Emission level - Limit value

4.2.15 TEST RESULTS

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 1	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	50.9 PK	74.00	-23.10	1.35H	183	55.70	25.20	4.86	34.90	4.84
2	2038.00	49.3 AV	54.00	-4.70	1.35H	183	54.10	25.20	4.86	34.90	4.84
3	*2412.00	89.5 AV	-	-	1.15H	146	57.30	27.11	5.10	0.00	-32.21
4	*2412.00	96.4 PK	-	-	1.15H	146	64.20	27.11	5.10	0.00	-32.21

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/ m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2038.00	50.8 PK	74.00	-23.20	1.14V	18	55.60	25.20	4.86	34.90	4.84
2	2038.00	49.9 AV	54.00	-4.10	1.14V	18	54.70	25.20	4.86	34.90	4.84
3	*2412.00	94.5 AV	-	-	1.49V	40	62.30	27.11	5.10	0.00	-32.21
4	*2412.00	101.7 PK	-	-	1.49V	40	69.50	27.11	5.10	0.00	-32.21

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 6	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	48.7 AV	54.00	-5.30	1.24H	205	53.20	25.41	4.96	34.90	4.53
2	2063.00	50.1 PK	74.00	-23.90	1.24H	205	54.60	25.41	4.96	34.90	4.53
3	*2437.00	96.4 PK	-	-	1.02H	172	64.00	27.33	5.08	0.00	-32.40
4	*2437.00	89.2 AV	-	-	1.02H	172	56.80	27.33	5.08	0.00	-32.40

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2063.00	51.6 PK	74.00	-22.40	1.38V	196	56.10	25.41	4.96	34.90	4.53
2	2063.00	50.5 AV	54.00	-3.50	1.38V	196	55.00	25.41	4.96	34.90	4.53
3	*2437.00	96.0 AV	-	-	1.47V	216	63.60	27.33	5.08	0.00	-32.40
4	*2437.00	101.3 PK	-	-	1.47V	216	68.90	27.33	5.08	0.00	-32.40

- NOTE:**
1. Emission level = Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency



EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
MODE	Channel 11	FREQUENCY RANGE	Above 1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	35 deg. C, 70%RH, 1005 hPa	TESTED BY: Bunny Yao	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	50.7 PK	74.00	-23.30	1.44H	176	55.00	25.62	5.02	34.90	4.26
2	2088.00	49.4 AV	54.00	-4.60	1.44H	176	53.70	25.62	5.02	34.90	4.26
3	*2462.00	92.4 AV	-	-	1.72H	200	60.00	27.33	5.08	0.00	-32.41
4	*2462.00	96.6 PK	-	-	1.72H	200	64.20	27.33	5.08	0.00	-32.41

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-Amp. Factor (dB)	Correction Factor (dB/m)
1	2088.00	50.3 AV	54.00	-3.70	1.12V	173	54.60	25.62	5.02	34.90	4.26
2	2088.00	51.6 PK	74.00	-22.40	1.12V	173	55.90	25.62	5.02	34.90	4.26
3	*2462.00	102.1 PK	-	-	1.83V	241	69.70	27.33	5.08	0.00	-32.41
4	*2462.00	97.4 AV	-	-	1.83V	241	65.00	27.33	5.08	0.00	-32.41

- NOTE:**
1. Emission level= Raw Value - Correction Factor
 2. Correction Factor = External Preamp. Gain - Ant. Factor - Cable loss
(External Preamp. Gain = 0, when the test receiver is used for the test.)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

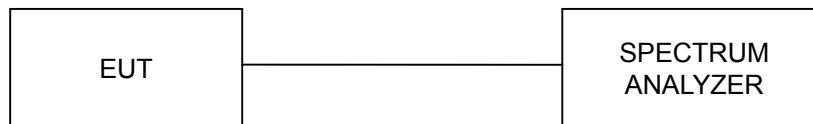
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

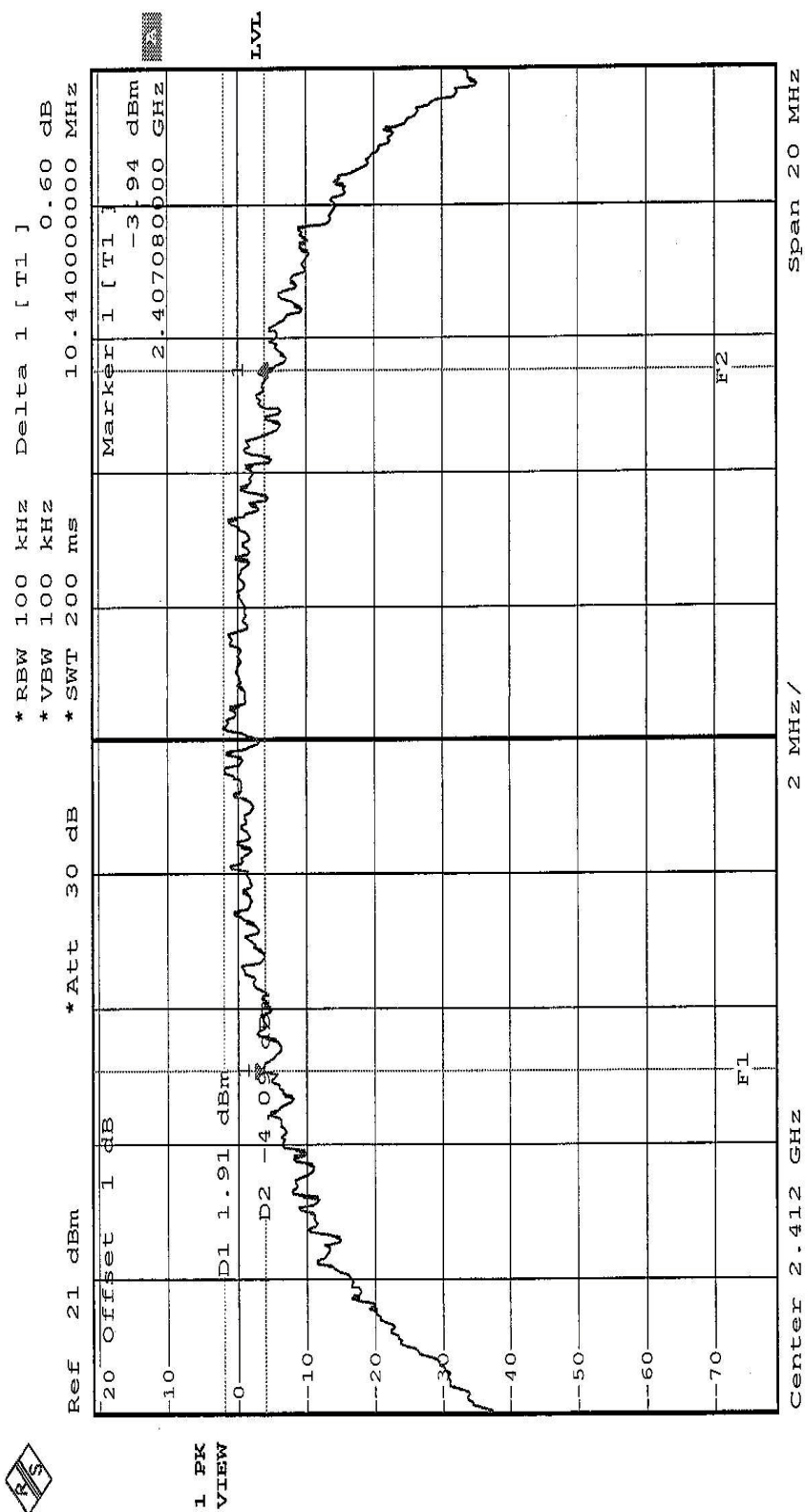
4.3.7 TEST RESULTS

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	27 deg. C, 60%RH, 1005 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.44	0.5	PASS
6	2437	10.44	0.5	PASS
11	2462	10.44	0.5	PASS



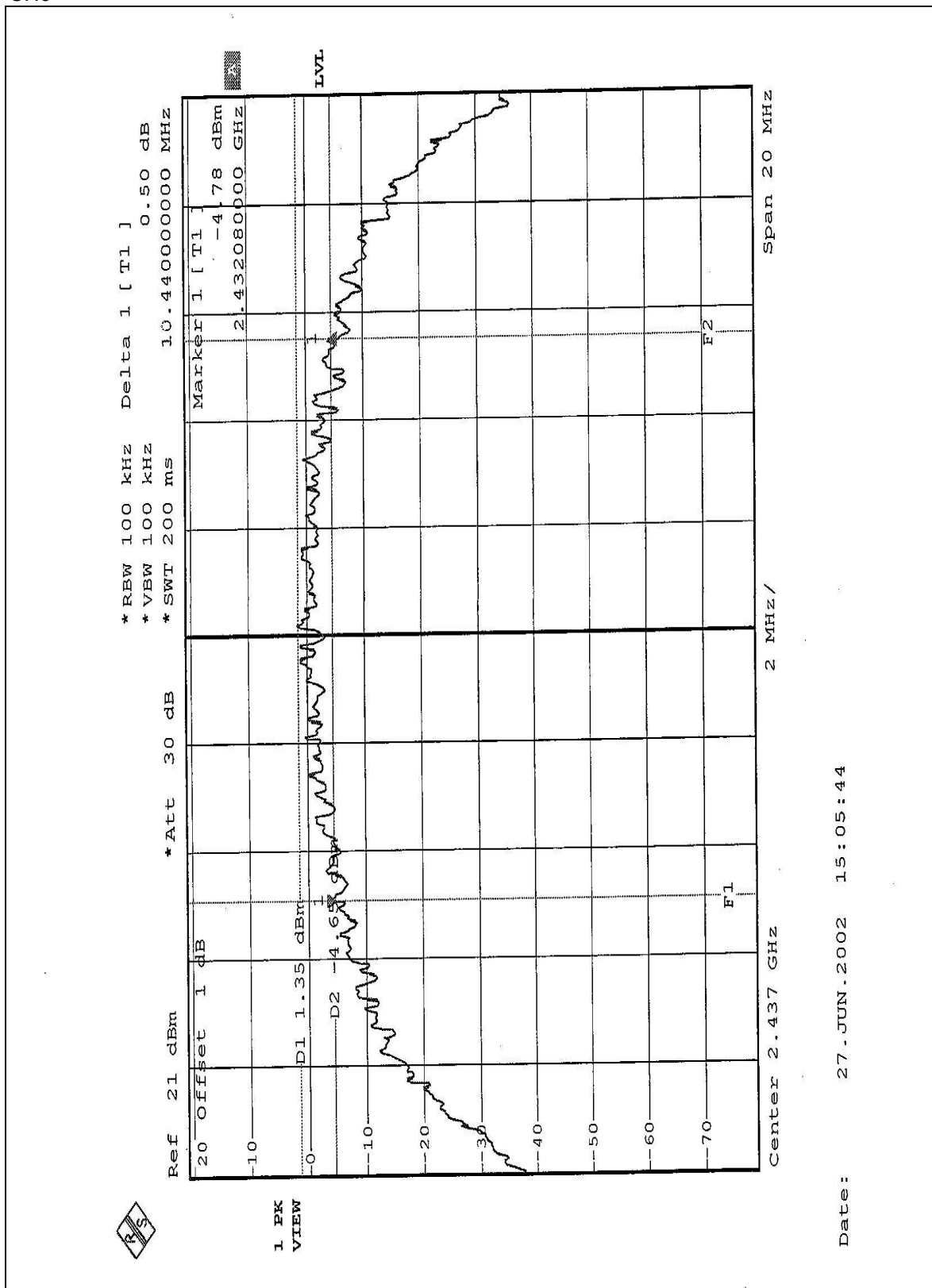
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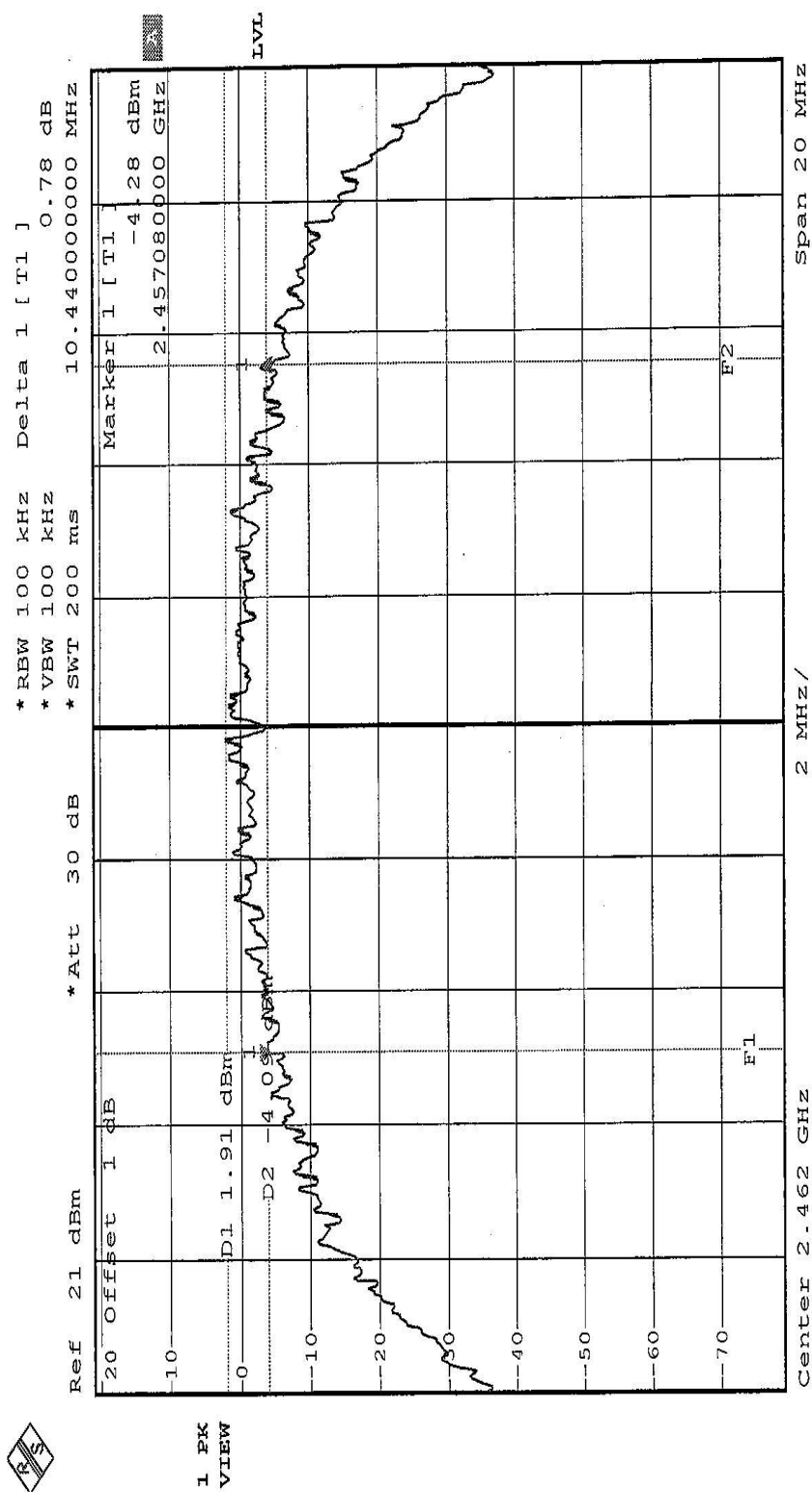


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4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SINGLE CHANNEL POWER METER	NRVS	100026	Feb. 21, 2003
PEAK POWER SENSOR	NRV-Z32	100013	Feb. 21, 2003

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST PROCEDURES

1. The transmitter output was connected to the peak power meter.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.4.7 TEST RESULTS

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	27 deg. C, 60%RH, 1005 hPa
TESTED BY: Steven Lu			

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	15.23	30	PASS
6	2437	15.12	30	PASS
11	2462	15.00	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

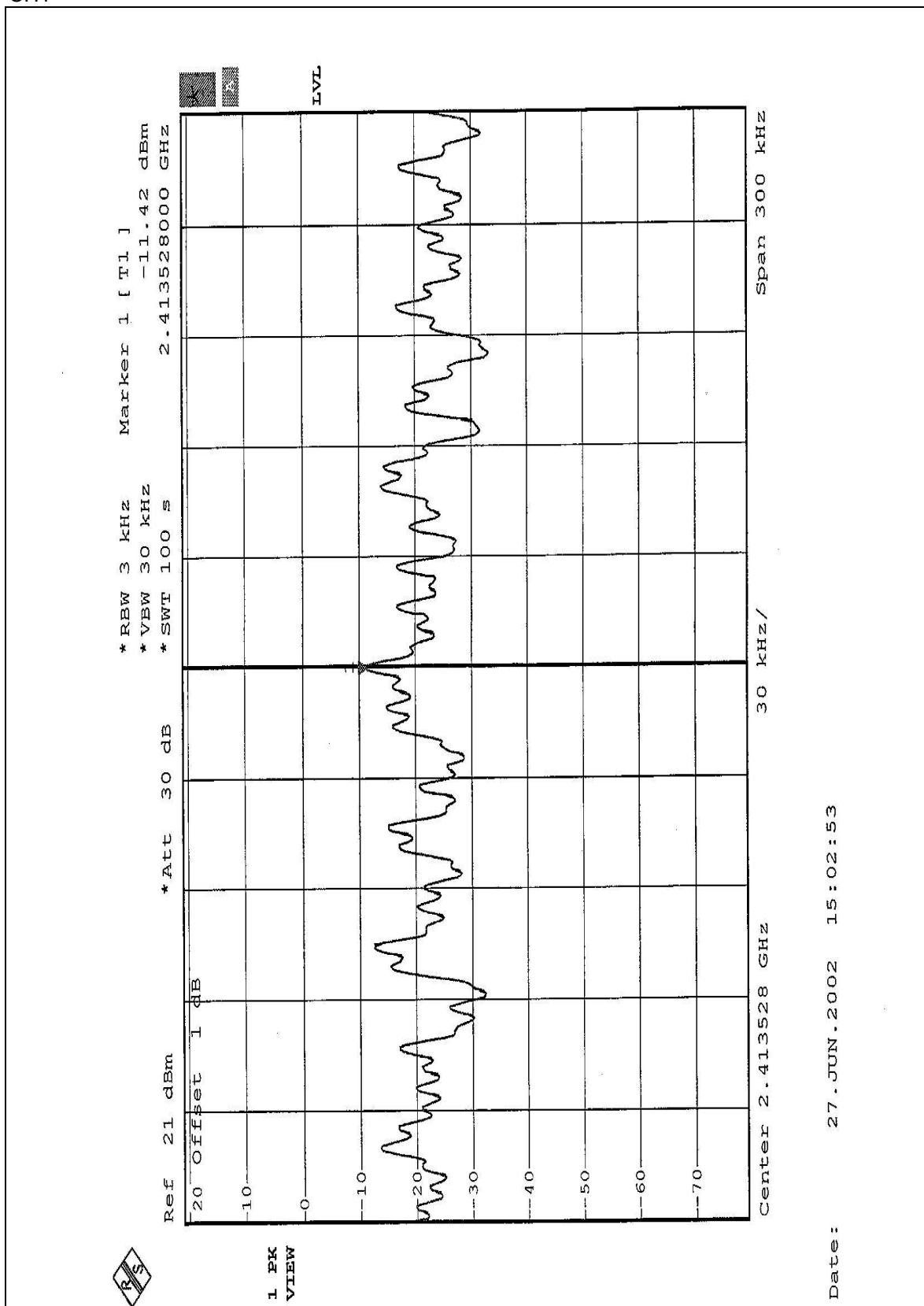


4.5.7 TEST RESULTS

EUT	Wireless Internet Access Server Appliances	MODEL	IWE1100
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	27 deg. C, 60%RH, 1005 hPa
TESTED BY: Steven Lu			

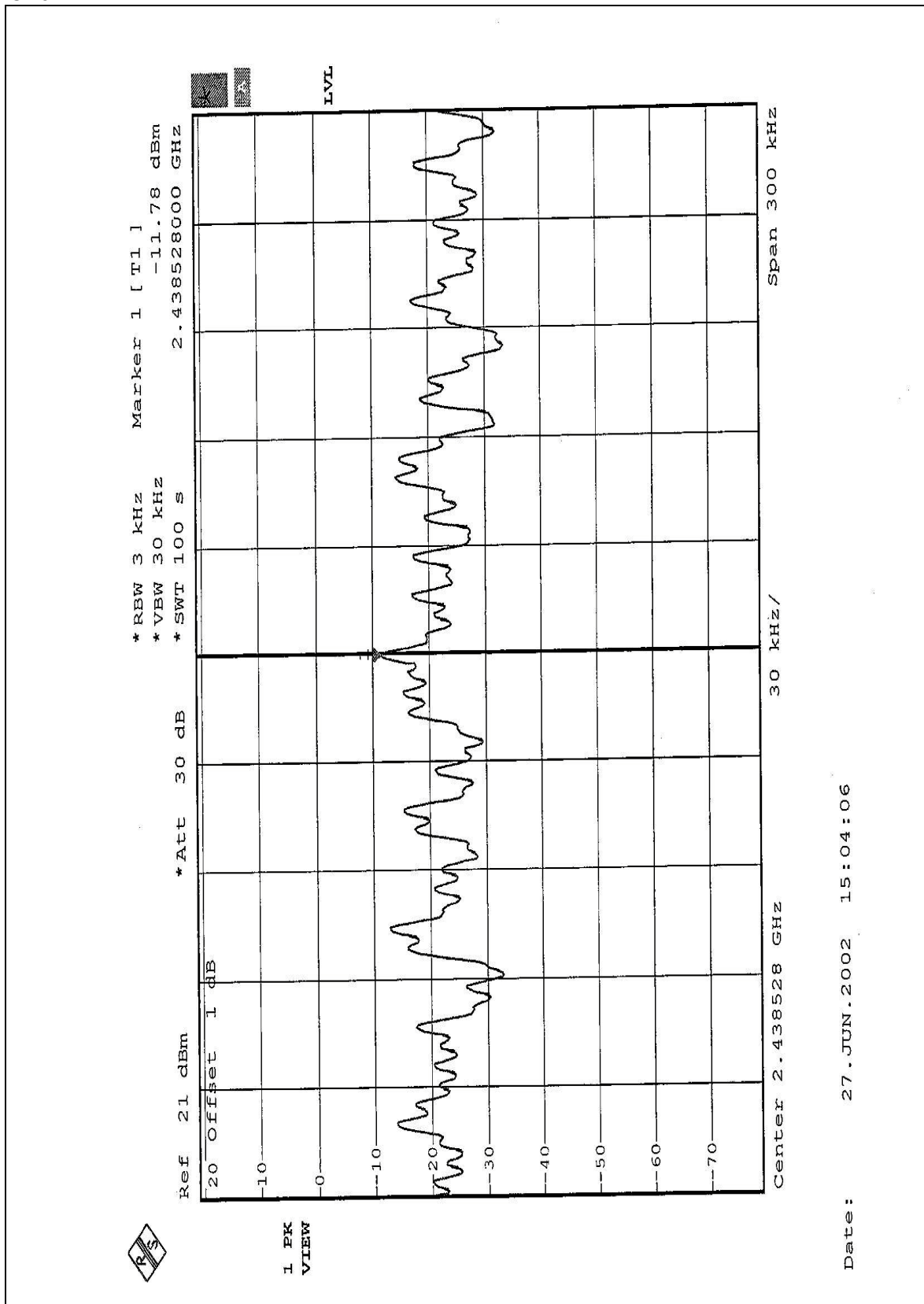
CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.42	8	PASS
6	2437	-11.78	8	PASS
11	2462	-11.45	8	PASS

CH1



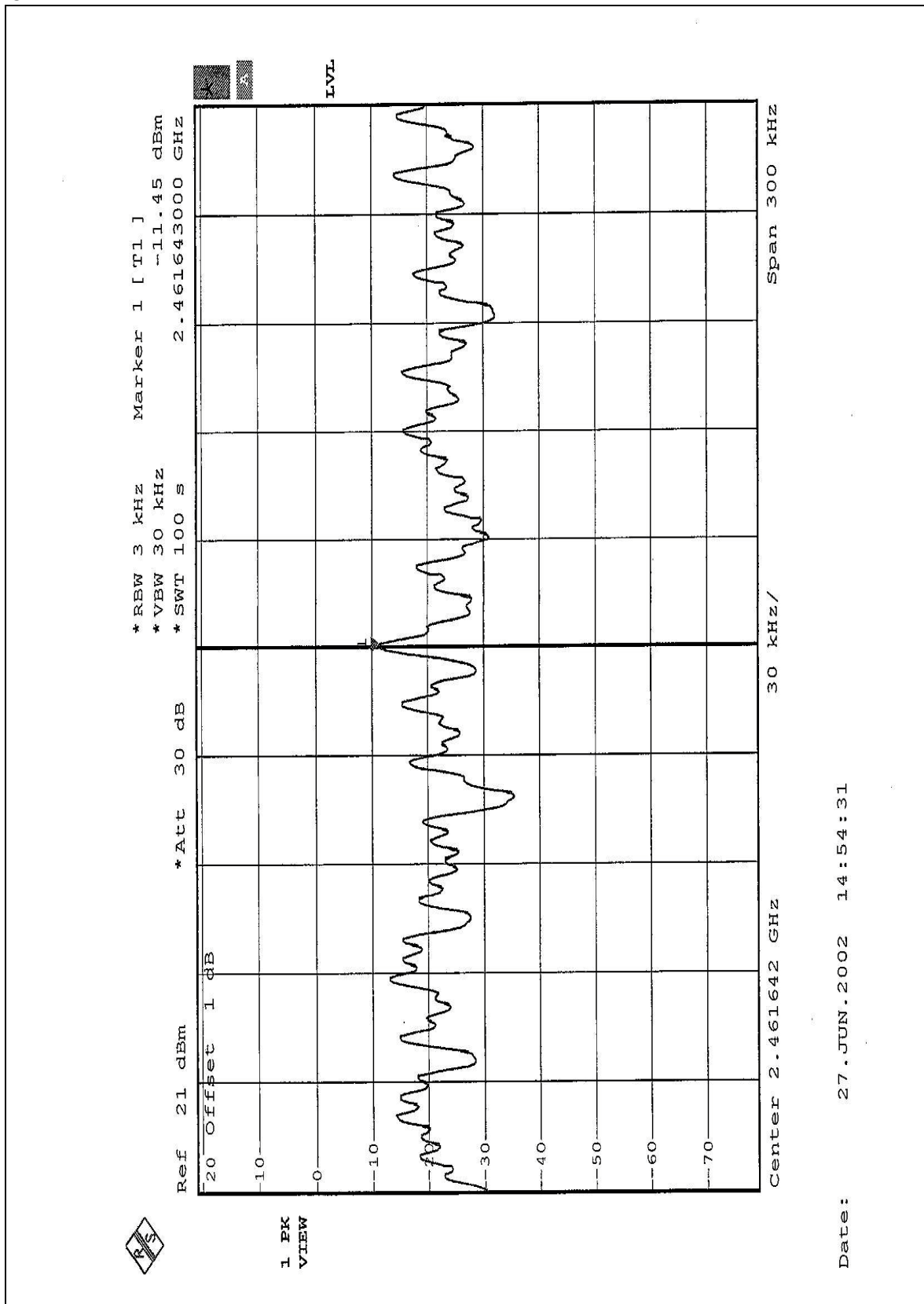
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CH11



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

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

4.6.4 DEVIATION FROM TEST STANDARD

No deviation



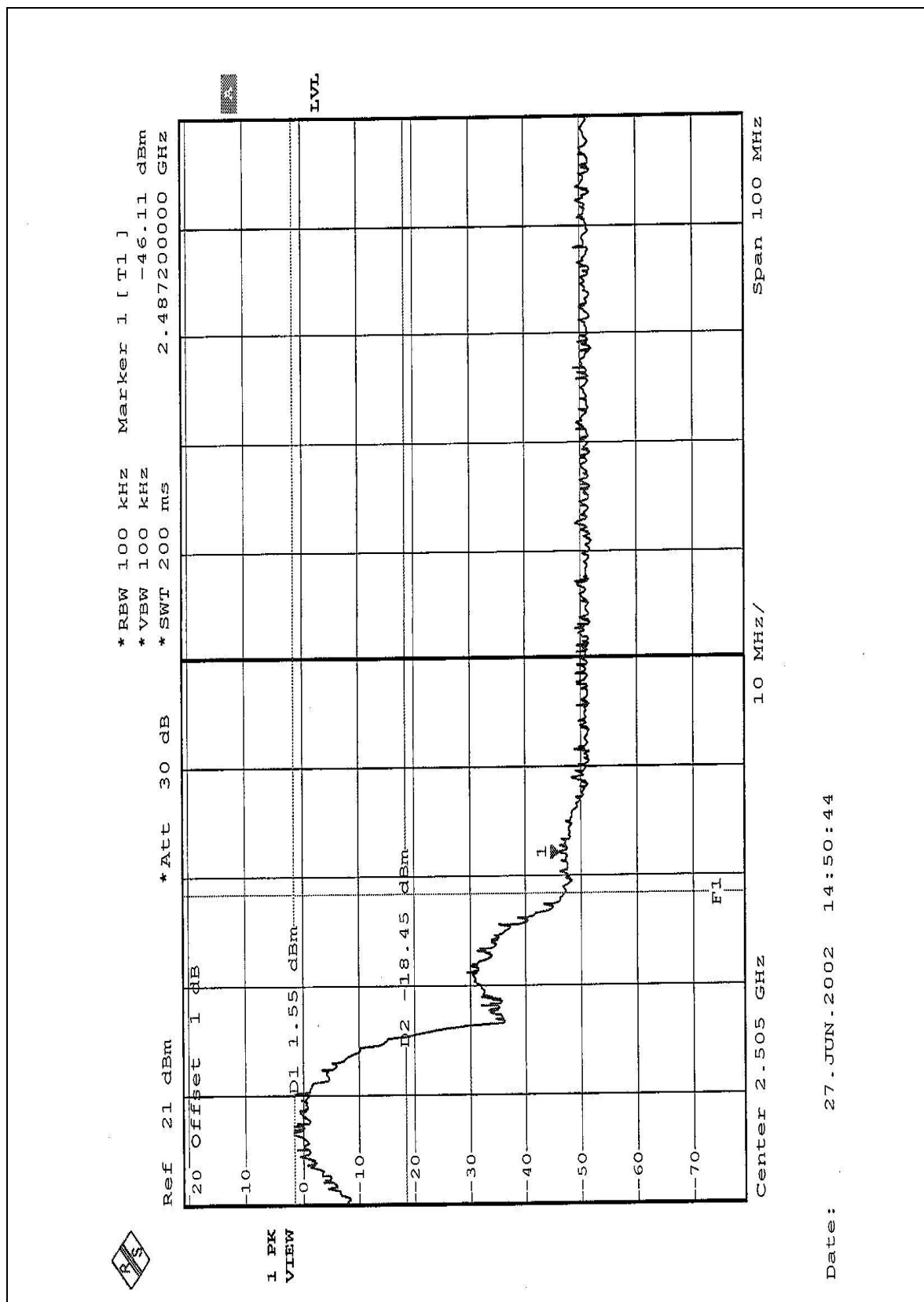
4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

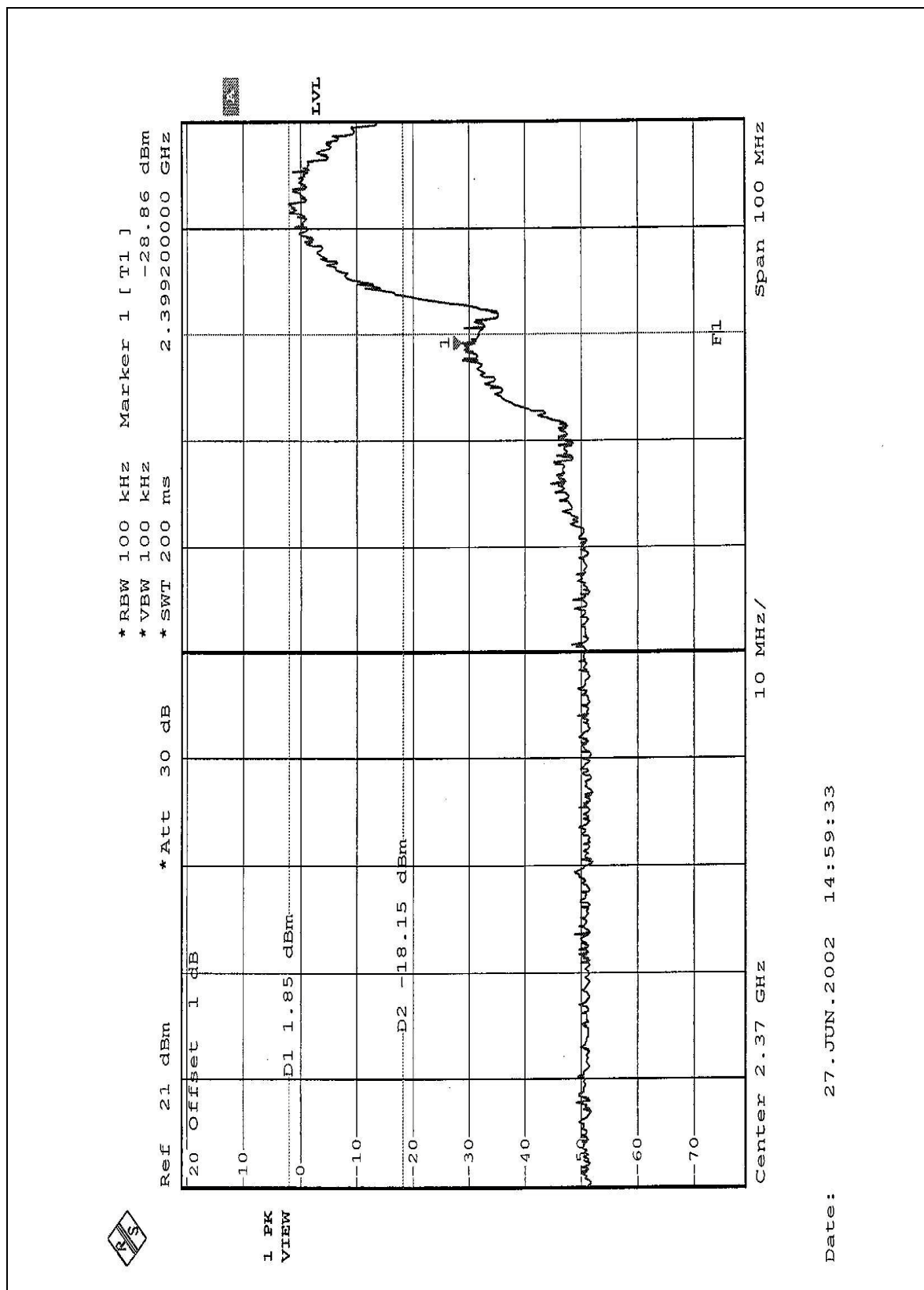
4.6.6 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

NOTE: The band edge emission plot on the following 2 pages shows 47.66dB delta between carrier maximum power and local maximum emission in restrict band (2.4872GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.18 (Page 92) is 97.4dBuV/m, so the maximum field strength in restrict band is $97.4 - 47.66 = 49.74$ dBuV/m which is under 54 dBuV/m limit.



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4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

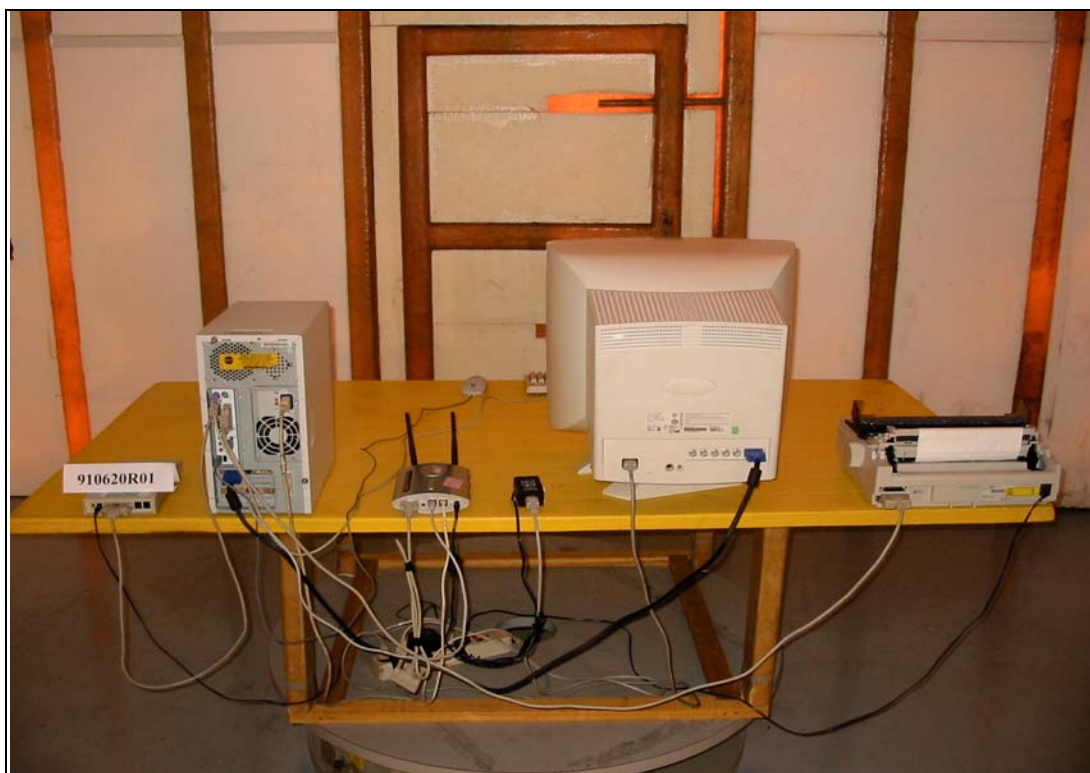
The antenna used in this product is Dipole Antenna with Reversed SMA connector. The maximum Gain of the antenna is 2dBi only.

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

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

www.adt.com.tw/index.5/phtml.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC Lab:

Tel: 886-35-935343

Fax: 886-35-935342

Lin Kou Safety Lab:

Tel: 886-2-26093195

Fax: 886-2-26093184

Lin Kou RF&Telecom Lab

Tel: 886-3-3270910

Fax: 886-3-3270892

Email: service@mail.adt.com.tw

Web Site: www.adt.com.tw

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