



# FCC DOC TEST REPORT

## Declaration of Conformity

According to

**47 CFR, Part 2, Part 15, CISPR PUB. 22  
and Canada ICES-003**

Applicant	: SofaWare Technology Ltd.
Address	: 3 Hilazon St., Ramat-Gan, 52522 Israel
Equipment	: Safe@office/VPN-1 Edge
Model No.	: SBXWD-166LHGE-5, SBXW-166LHGE-5, SBXWZA-166LHGE-5
Trade Name	: Sofaware

Laboratory accreditation



Testing Laboratory  
1332

- The test result refers exclusively to the test presented test model / sample.
- Without written approval of **CerpPASS Technology Corp.** the test report shall not be reproduced except in full.



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# CERTIFICATE OF COMPLIANCE

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Applicant : SofaWare Technology Ltd.  
Address : 3 Hilazon St., Ramat-Gan, 52522 Israel  
Equipment : Safe@office/VPN-1 Edge  
Model No. : SBXWD-166LHGE-5, SBXW-166LHGE-5,  
SBXWZA-166LHGE-5

### I HEREBY CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2003** and the energy emitted by this equipment was **passed CISPR PUB. 22, FCC Part 15 and Canada ICES-003** in both radiated and conducted emission class B limits.

Testing was carried out on Sep. 11, 2009 at **CerpPASS Technology Corp.**

Signature

Jonson Lee  
EMC/RF B.U. Senior Manager



## 1. Test Configuration of Equipment under Test

### 1.1. Feature of Equipment under Test

Model No.: SBXWD-166LHGE-5	
Dimensions (width x height x depth)	200 x 33 x 130 mm (7.87 x 1.3 x 5.12 inches)
Weight	694g (1.53lbs)
Retail Box Dimensions (width x height x depth)	290 x 250 x 80mm (11.42 x 9.84 x 3.15 inches)
Power Supply	Model No.: Sunny \ SYS1308-2412-W2 Input: 100 ~ 240VAC @ 1.0A Output: 12VDC @ 1.5A
Max Power	18W
Temperature	Storage/Transport: -5°C ~ 80°C Operation: 0°C ~ 40°C
Humidity	10 ~ 95% / 10 ~ 90%
Model No.: SBXW-166LHGE-5	
Dimensions (width x height x depth)	200 x 33 x 130 mm (7.87 x 1.3 x 5.12 inches)
Weight	635g (1.40lbs)
Retail Box Dimensions (width x height x depth)	290 x 250 x 80mm (11.42 x 9.84 x 3.15 inches)
Power Supply	Model No.: Sunny \ SYS1308-2412-W2 Input: 100 ~ 240VAC @ 1.0A Output: 12VDC @ 1.5A
Max Power	18W
Temperature	Storage/Transport: -5°C ~ 80°C Operation: 0°C ~ 40°C
Humidity	10 ~ 95% / 10 ~ 90%
Wireless Attributes	
Operation Frequency	2.412 – 2.484 MHz
Modulation	OFDM, DSSS, 64QAM, 16QAM, QPSK, BPSK, CCK, DQPSK, DBPSK
Antenna Type	Dipole Antenna
Antenna Gain	2 dBi
Data Rate	802.11b (11Mbps), 802.11g (54Mbps)



## 1.2. Test Manner

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included remote workstation, PC, Monitor, Mouse, Keyboard, Modem, Printer, Flash Memory, Notebook and EUT for EMI test. The remote workstation included Notebook and DSLAN.
- c. An executive program, "Ping.exe" under WIN XP, which transmits and receives data to the remote workstation through LAN (100M) and Wireless.
- d. The result of conduction and radiation test as follow:  
Model No.: SBXWD-166LHGE-5  
Test Mode 1: LINK LAN (100M) + Wireless  
Model No.: SBXW-166LHGE-5  
Test Mode 2: LINK LAN (100M) + Wireless  
For Conduction test, the test mode 2 was the worst case. It was reported as final data.  
For Radiation test, the test mode 1 was the worst case. It was reported as final data.
- e. The result of disturbances at telecommunication ports test as follow:  
Model No.: SBXWD-166LHGE-5  
Test Mode 1: ISN LAN (10M)  
Test Mode 2: ISN LAN (100M)  
Test Mode 3: ISN DMZ (10M)  
Test Mode 4: ISN DMZ (100M)  
Test Mode 5: ISN RJ11  
Model No.: SBXW-166LHGE-5  
Test Mode 6: ISN LAN (10M)  
Test Mode 7: ISN LAN (100M)  
Test Mode 8: ISN DMZ (10M)  
Test Mode 9: ISN DMZ (100M)  
Test Mode 10: ISN RJ11  
The test mode 6~10 were the worst case; they were reported as final data.



### 1.3. Description of Test System

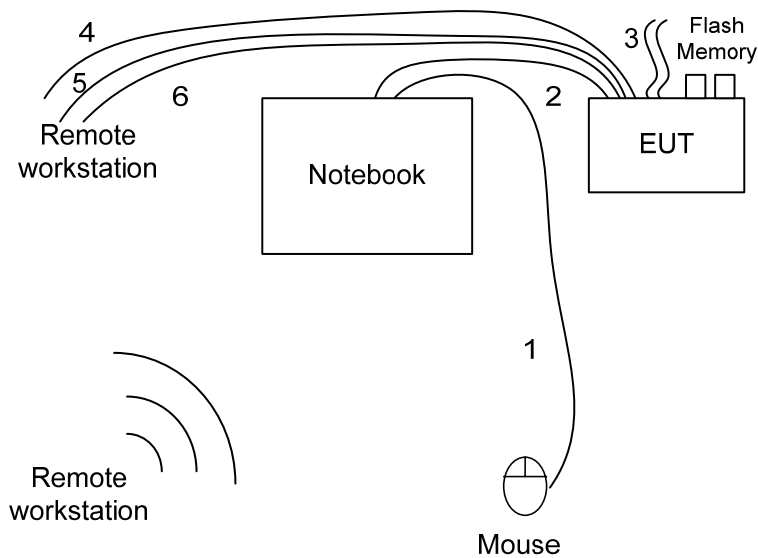
Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	ViewSonic	G90fB	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA Shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.85 m
Mouse	IBM	MU29J	Data Cable, PS2 Shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB Shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Shielding 1.35 m
Printer	HP	Desk Jet 400	Power Cable, Adapter Unshielding 1.8 m Data Cable, Print Shielding 1.6 m
Flash Memory*2	TranScend	JF150 1GB	N/A
Notebook	ASUS	A8T	Power Cable, Adapter Unshielding 1.8 m
Remote workstation			
Notebook	DELL	PP10L	Power Cable, Adapter Unshielding 1.8 m
Notebook	TOSHIBA	PSA50T-05M 00C	Power Cable, Adapter Unshielding 1.8 m
DSLAN	VERSAXPRE SS	X-CHV1000	Power Cable, Unshielding 1.8 m

Use Cable:

Cable	Quantity	Description
RJ45	3	Unshielding, 3.0m
RJ45	2	Unshielding, 4.0m
RJ45	1	Unshielding, 1.0m
RJ11	1	Unshielding, 10m

## 1.4. Connection Diagram of Test System

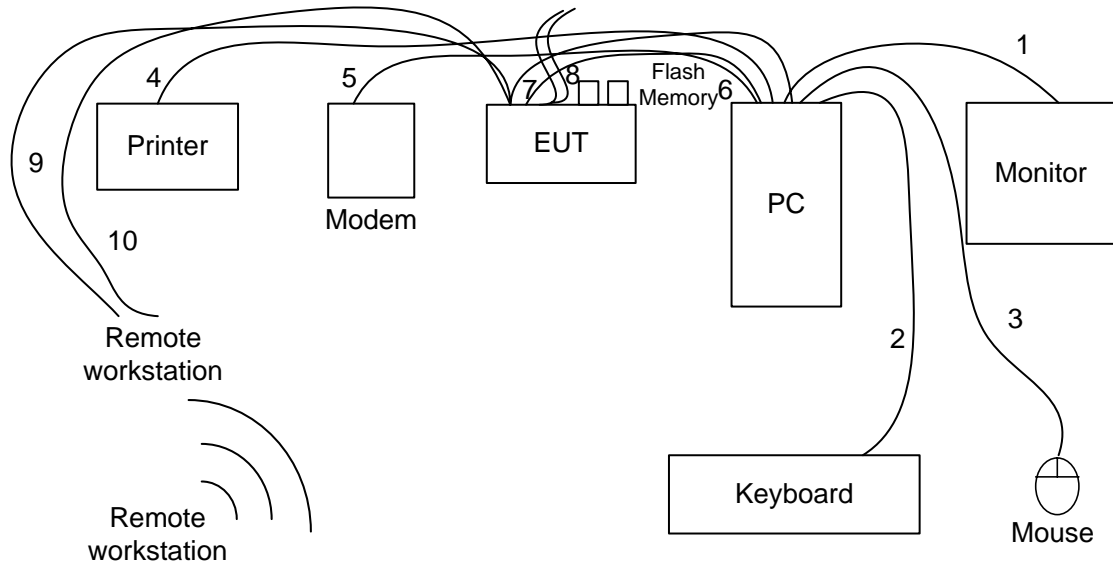
### 1.4.1 Conduction Test



1. The USB cable is connected from Notebook to the USB Mouse.
  2. The RJ45 cable is connected from Notebook to the EUT.
  3. These RJ45 (\*3) are floating.
  4. The RJ45 cable is connected from EUT to the remote workstation.
  5. The RJ45 cable is connected from EUT to the remote workstation.
  6. The RJ11 cable is connected from EUT to the remote workstation.
- \* The EUT keeps to transmit and receive data to remote workstation by Wireless.



### 1.4.2 Radiation Test



1. The VGA cable is connected from PC to Monitor.
  2. The PS2 cable is connected from PC to the Keyboard.
  3. The PS2 cable is connected from PC to the Mouse.
  4. The Print cable is connected from PC to the Printer.
  5. The RS232 cable is connected from PC to the Modem.
  6. The RJ45 cable is connected from PC to the EUT.
  7. The RJ45 cable is connected from PC to the EUT.
  8. These RJ45 cables (\*3) are floating.
  9. The RJ11 cable is connected from EUT to the remote workstation.
  10. The RJ45 cable is connected from EUT to the remote workstation.
- \* The EUT keeps to transmit and receive data to remote workstation by Wireless.





### 1.5. General Information of Test

Test Site :	CerpPASS Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS1-SD):	No. 7-2, Moshihkeng, Fongtian Village, Shihding Township, Taipei County, Taiwan, R.O.C.
FCC Registration Number :	TW1049, 982971, 488071
IC Registration Number :	4934C-1, 4934D-1
VCCI Registration Number :	T-543 for Telecommunication Test C-3328 for Conducted emission test R-3013 for Radiated emission test
Test Voltage:	AC 120V / 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart B
Frequency Range Investigated :	Conducted Emission Test: from 150kHz to 30 MHz Radiated Emission Test: from 30 MHz to 6,000 MHz
Test Distance :	The test distance of radiated emission below 1GHz from antenna to EUT is 10 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.

### 1.6. Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	2.71 dB
Radiated Emission	30 MHz ~ 6GHz	Vertical	3.89 dB
		Horizontal	3.59 dB





## 2. Test of Conducted Emission

### 2.1. Test Limit

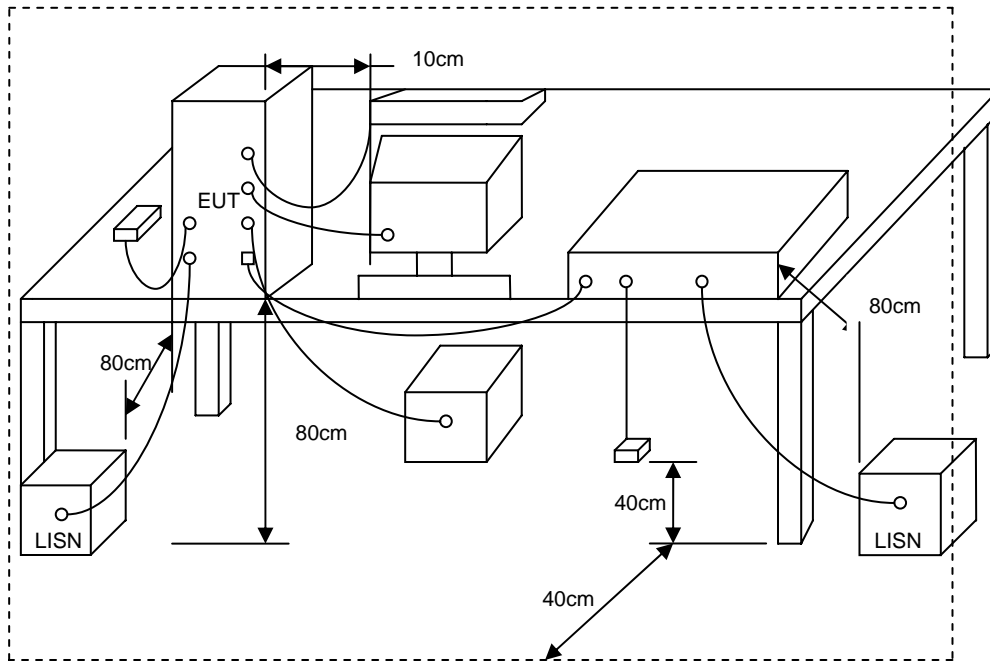
Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

### 2.2. Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

### 2.3. Typical test Setup



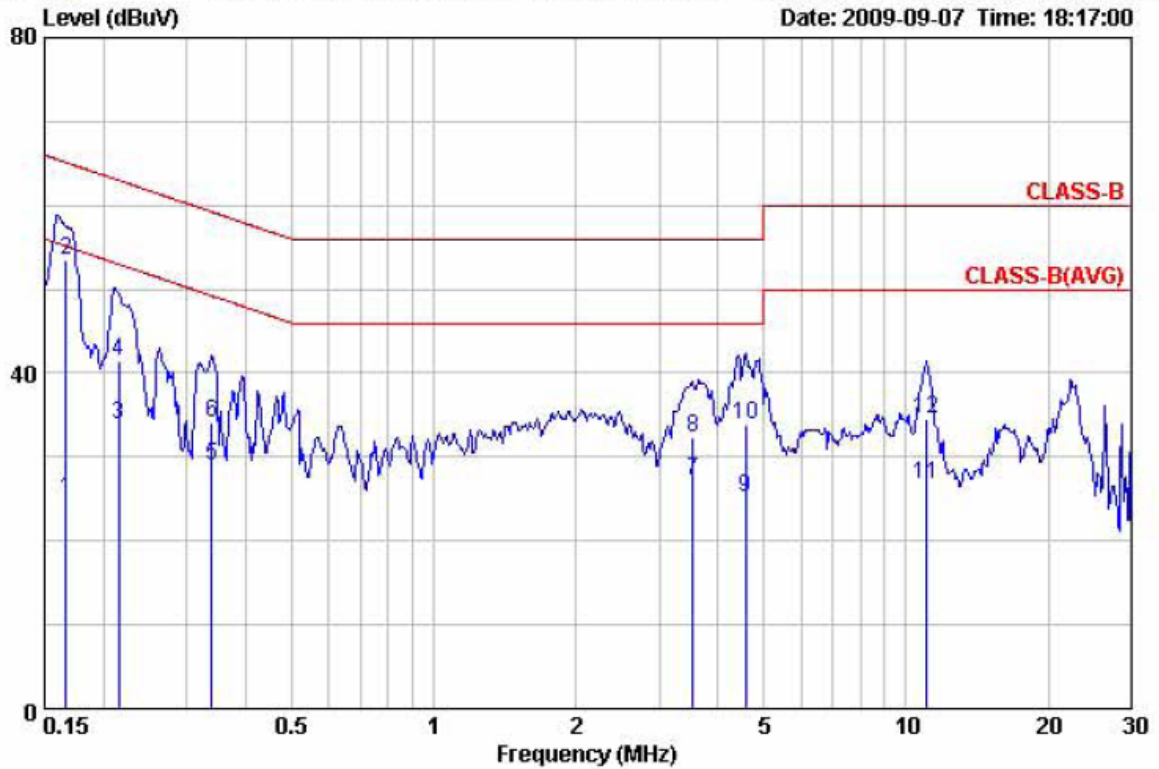
### 2.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2008/09/27	2009/09/26
LISN	NSLK 8127	Schwarzbeck	8127-516	2009/05/15	2010/05/14
LISN	ROLF HEINE	NNB-2/16Z	03/10058	2009/04/18	2010/04/17
ISN	TESEQ GMBH	ISN T4	20158	2009/04/24	2010/04/23



### 2.5. Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: LINK LAN (100M) + Wireless	Temperature	: 25 °C
Memo	:	Humidity	: 63 %

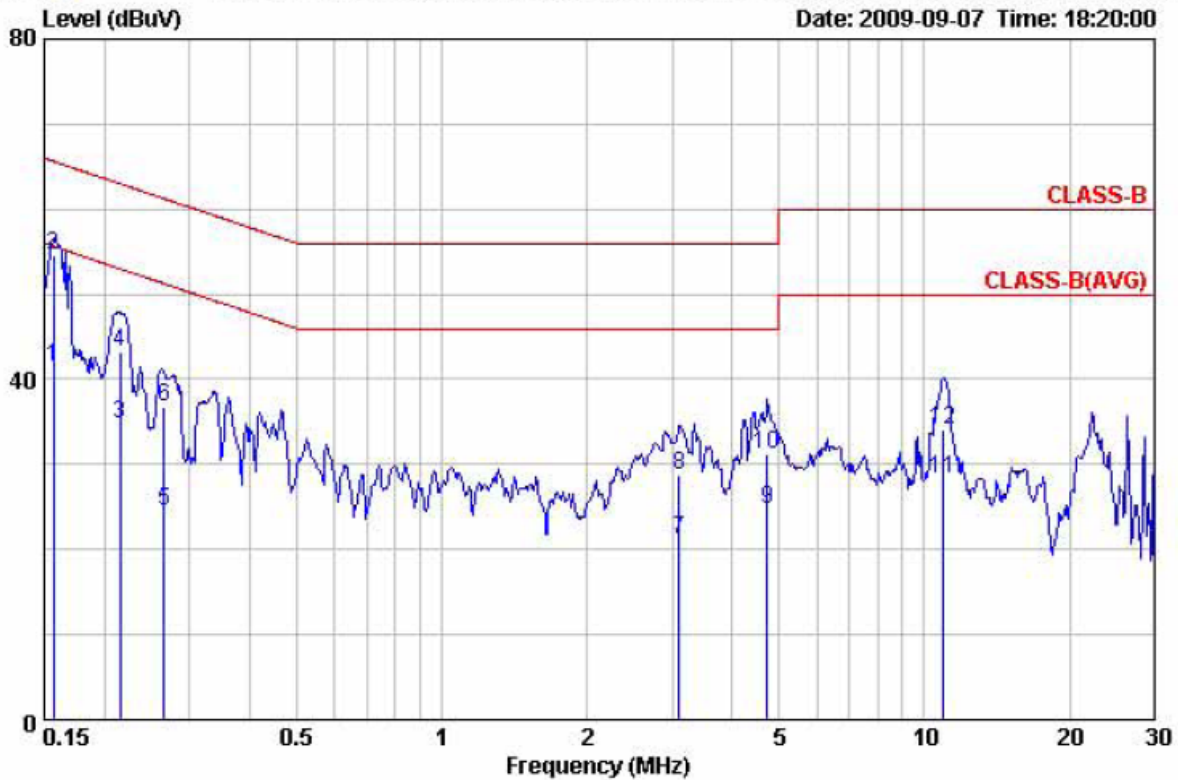


Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.167	24.938	0.070	25.008	55.120	-30.112	Average
2	0.167	53.369	0.070	53.439	65.120	-11.681	QP
3	0.215	33.787	0.071	33.858	53.008	-19.150	Average
4	0.215	41.326	0.071	41.397	63.008	-21.611	QP
5	0.339	28.899	0.078	28.977	49.223	-20.246	Average
6	0.339	33.945	0.078	34.023	59.223	-25.200	QP
7	3.547	26.876	0.219	27.095	46.000	-18.905	Average
8	3.547	32.114	0.219	32.333	56.000	-23.667	QP
9	4.574	25.017	0.261	25.278	46.000	-20.722	Average
10	4.574	33.553	0.261	33.814	56.000	-22.186	QP
11	11.080	26.307	0.513	26.820	50.000	-23.180	Average
12	11.080	33.955	0.513	34.468	60.000	-25.532	QP

Remarks: 1. Result = Read Value + Factor  
 2. Factor = LISN(ISN) Factor + Cable Loss



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: LINK LAN (100M) + Wireless	Temperature	: 25 °C
Memo	:	Humidity	: 63 %



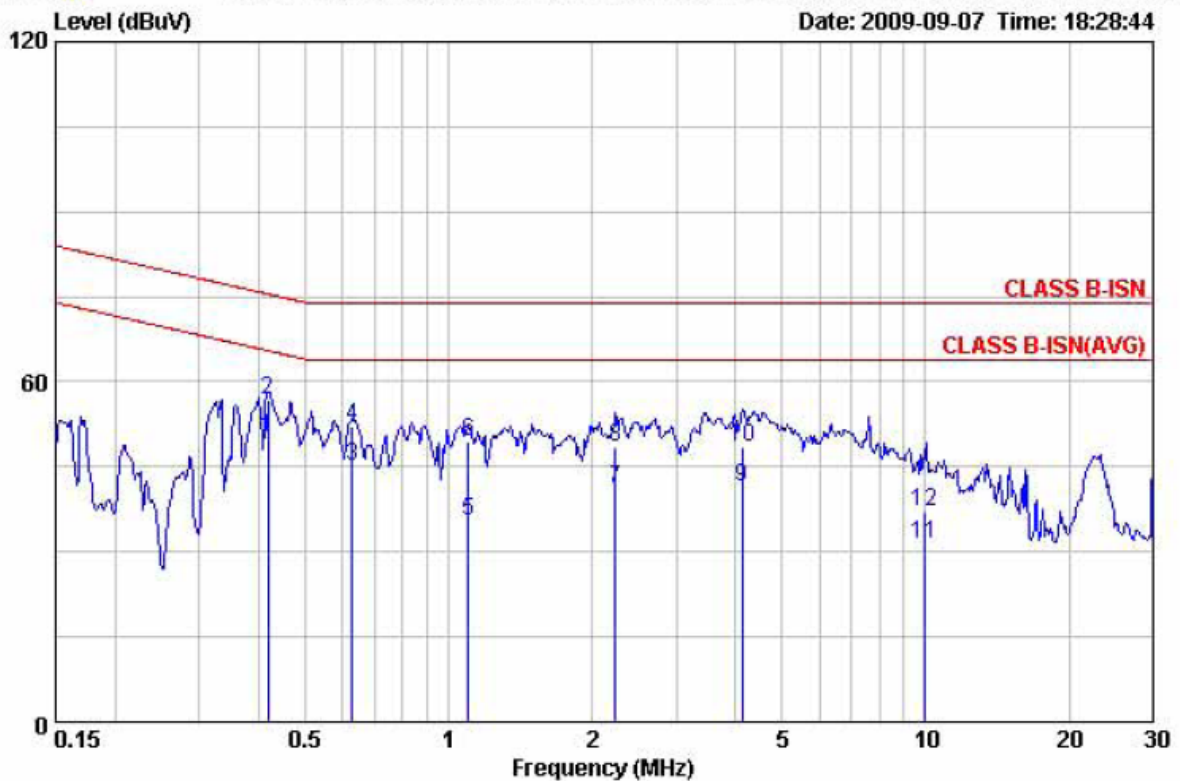
Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.156	41.311	0.070	41.381	55.648	-14.267	Average
2	0.156	54.553	0.070	54.623	65.648	-11.025	QP
3	0.215	34.658	0.071	34.729	53.008	-18.279	Average
4	0.215	43.179	0.071	43.250	63.008	-19.758	QP
5	0.266	24.427	0.074	24.501	51.247	-26.746	Average
6	0.266	36.623	0.074	36.697	61.247	-24.550	QP
7	3.107	21.015	0.148	21.163	46.000	-24.837	Average
8	3.107	28.513	0.148	28.661	56.000	-27.339	QP
9	4.721	24.480	0.217	24.697	46.000	-21.303	Average
10	4.721	31.083	0.217	31.300	56.000	-24.700	QP
11	10.980	27.970	0.411	28.381	50.000	-21.619	Average
12	10.980	33.690	0.411	34.101	60.000	-25.899	QP

Remarks: 1. Result = Read Value + Factor  
 2. Factor = LISN(ISN) Factor + Cable Loss



2.5.1 Conducted Emission for Telecommunication Port Test Data

Power	: AC 120V	Temperature	: 25 °C
Test Mode 6	: ISN LAN (10M)	Humidity	: 63 %
Memo	:		

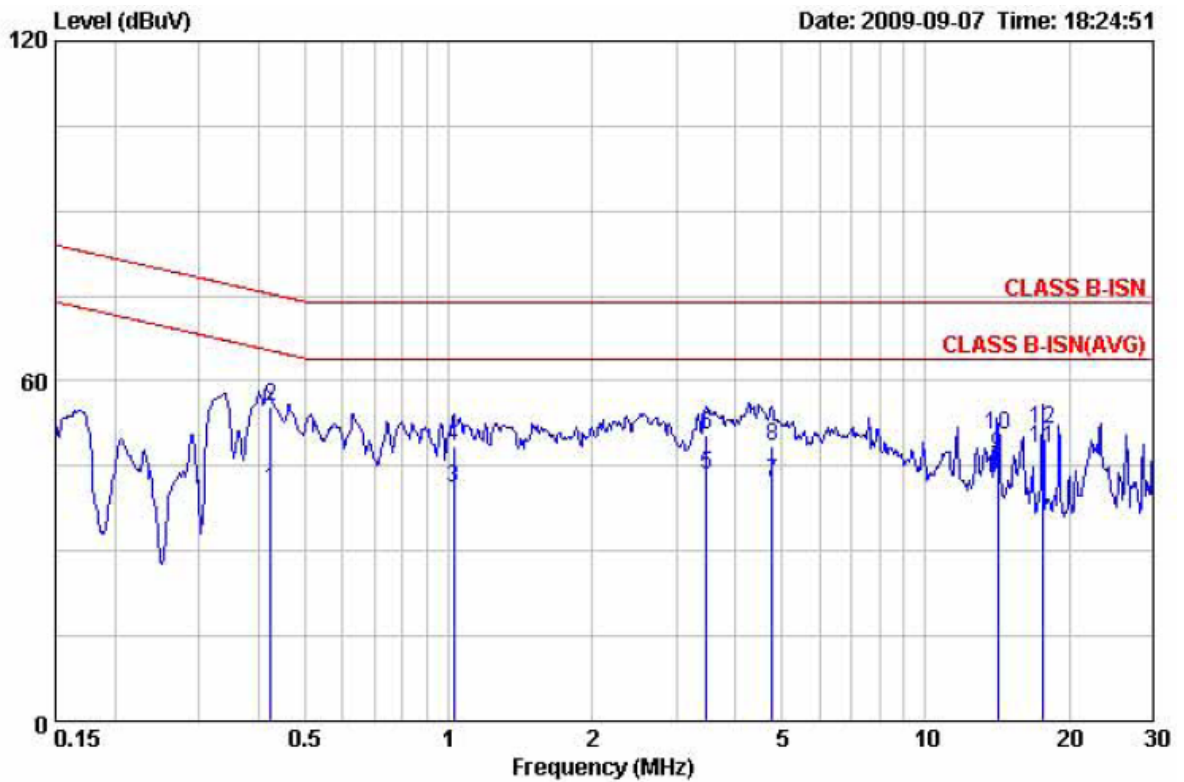


Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.419	40.182	9.853	50.035	65.463	-15.428	Average
2	0.419	47.078	9.853	56.931	75.463	-18.532	QP
3	0.627	35.431	9.780	45.211	64.000	-18.789	Average
4	0.627	42.444	9.780	52.224	74.000	-21.776	QP
5	1.100	25.546	9.727	35.273	64.000	-28.727	Average
6	1.100	39.787	9.727	49.514	74.000	-24.486	QP
7	2.237	31.300	9.692	40.992	64.000	-23.008	Average
8	2.237	38.618	9.692	48.310	74.000	-25.690	QP
9	4.136	31.792	9.697	41.489	64.000	-22.511	Average
10	4.136	38.819	9.697	48.516	74.000	-25.484	QP
11	10.000	21.776	9.740	31.516	64.000	-32.484	Average
12	10.000	27.343	9.740	37.083	74.000	-36.917	QP

Remarks: 1. Result = Read Value + Factor  
 2. Factor = LISN(ISN) Factor + Cable Loss



Power	: AC 120V	Temperature	: 25 °C
Test Mode 7	: ISN LAN (100M)	Humidity	: 63 %
Memo	:		



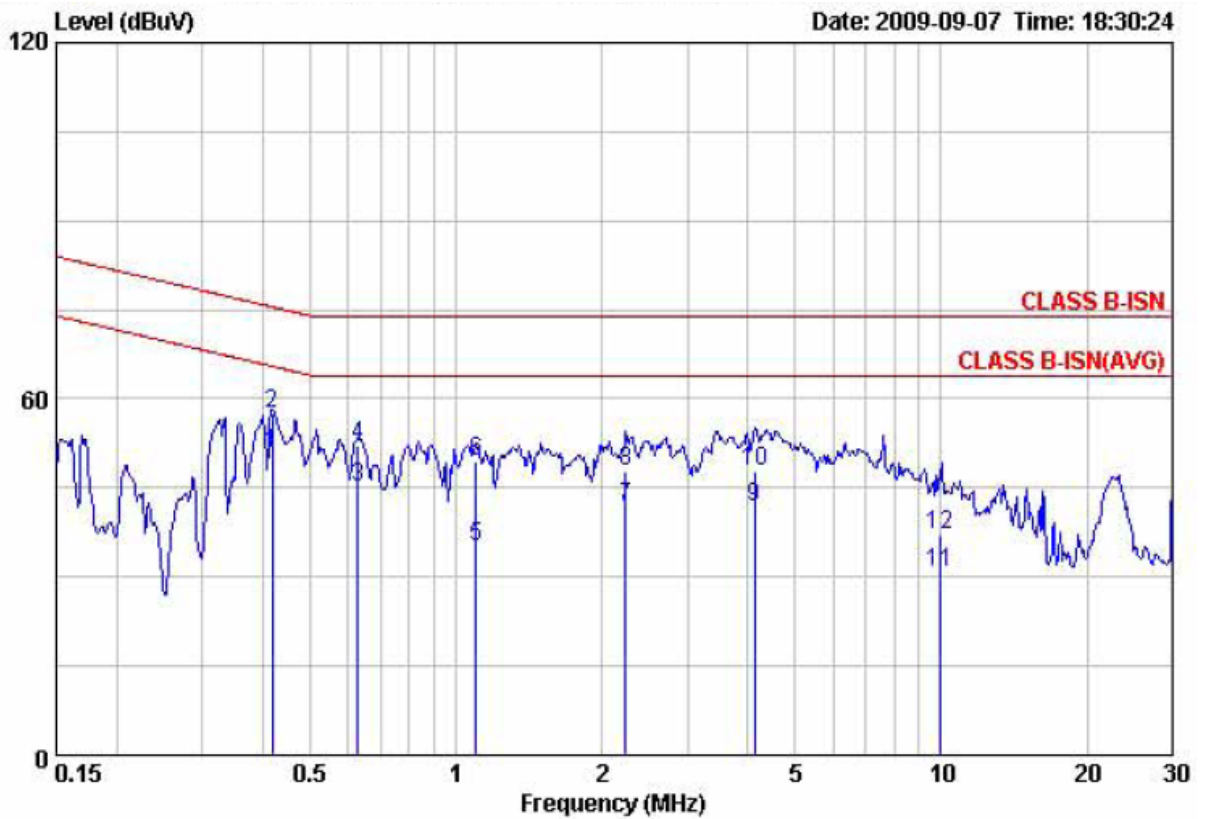
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.424	30.854	9.849	40.703	65.375	-24.672	Average
2	0.424	45.613	9.849	55.462	75.375	-19.913	QP
3	1.027	31.257	9.729	40.986	64.000	-23.014	Average
4	1.027	38.808	9.729	48.537	74.000	-25.463	QP
5	3.472	33.829	9.697	43.526	64.000	-20.474	Average
6	3.472	40.734	9.697	50.431	74.000	-23.569	QP
7	4.772	32.421	9.697	42.118	64.000	-21.882	Average
8	4.772	38.651	9.697	48.348	74.000	-25.652	QP
9	14.150	37.137	9.798	46.935	64.000	-17.065	Average
10	14.150	40.780	9.798	50.578	74.000	-23.422	QP
11	17.690	38.263	9.939	48.202	64.000	-15.798	Average
12	17.690	41.540	9.939	51.479	74.000	-22.521	QP

Remarks: 1. Result = Read Value + Factor  
 2. Factor = LISN(ISN) Factor + Cable Loss





Power	: AC 120V	Temperature	: 25 °C
Test Mode 8	: ISN DMZ (10M)	Humidity	: 63 %
Memo	:		

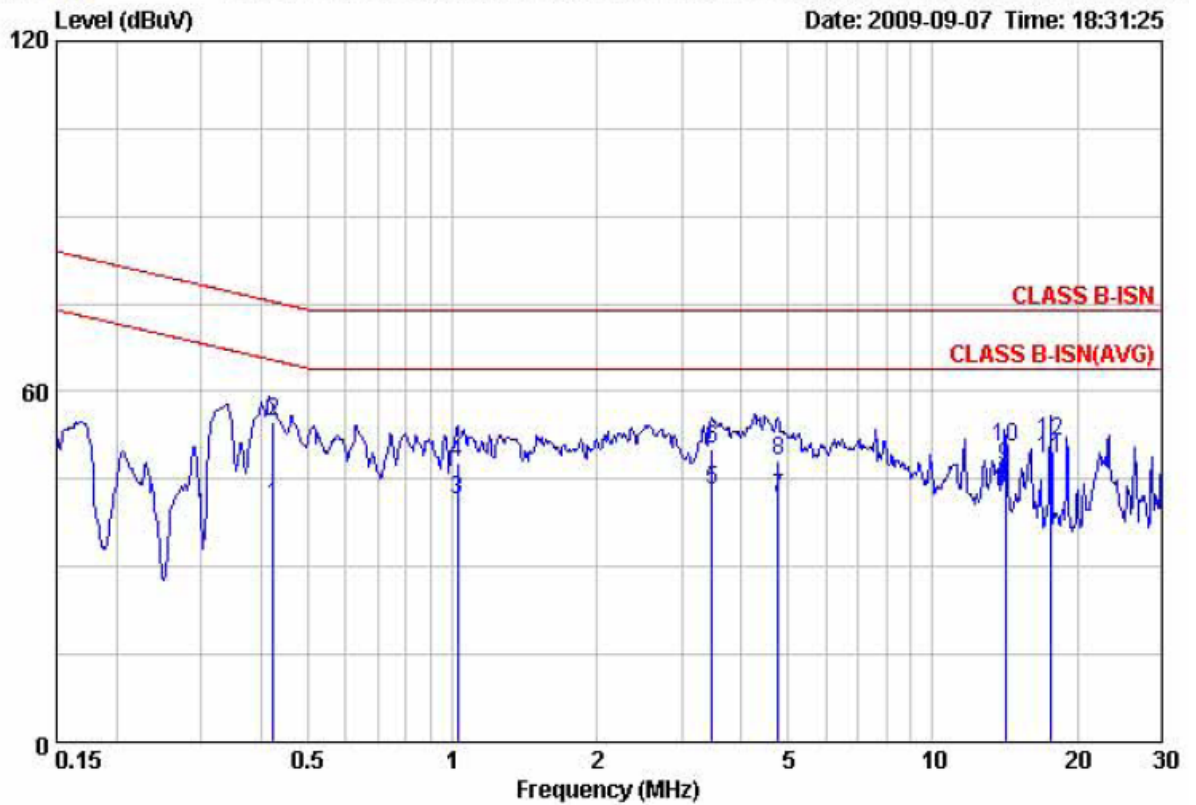


Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.419	40.820	9.853	50.673	65.463	-14.790	Average
2	0.419	47.781	9.853	57.634	75.463	-17.829	QP
3	0.627	35.319	9.780	45.099	64.000	-18.901	Average
4	0.627	42.445	9.780	52.225	74.000	-21.775	QP
5	1.100	25.465	9.727	35.192	64.000	-28.808	Average
6	1.100	39.874	9.727	49.601	74.000	-24.399	QP
7	2.237	31.995	9.692	41.687	64.000	-22.313	Average
8	2.237	38.178	9.692	47.870	74.000	-26.130	QP
9	4.136	31.922	9.697	41.619	64.000	-22.381	Average
10	4.136	38.189	9.697	47.886	74.000	-26.114	QP
11	10.000	21.178	9.740	30.918	64.000	-33.082	Average
12	10.000	27.428	9.740	37.168	74.000	-36.832	QP

Remarks: 1. Result = Read Value + Factor  
 2. Factor = LISN(ISN) Factor + Cable Loss



Power	: AC 120V	Temperature	: 25 °C
Test Mode 9	: ISN DMZ (100M)	Humidity	: 63 %
Memo	:		

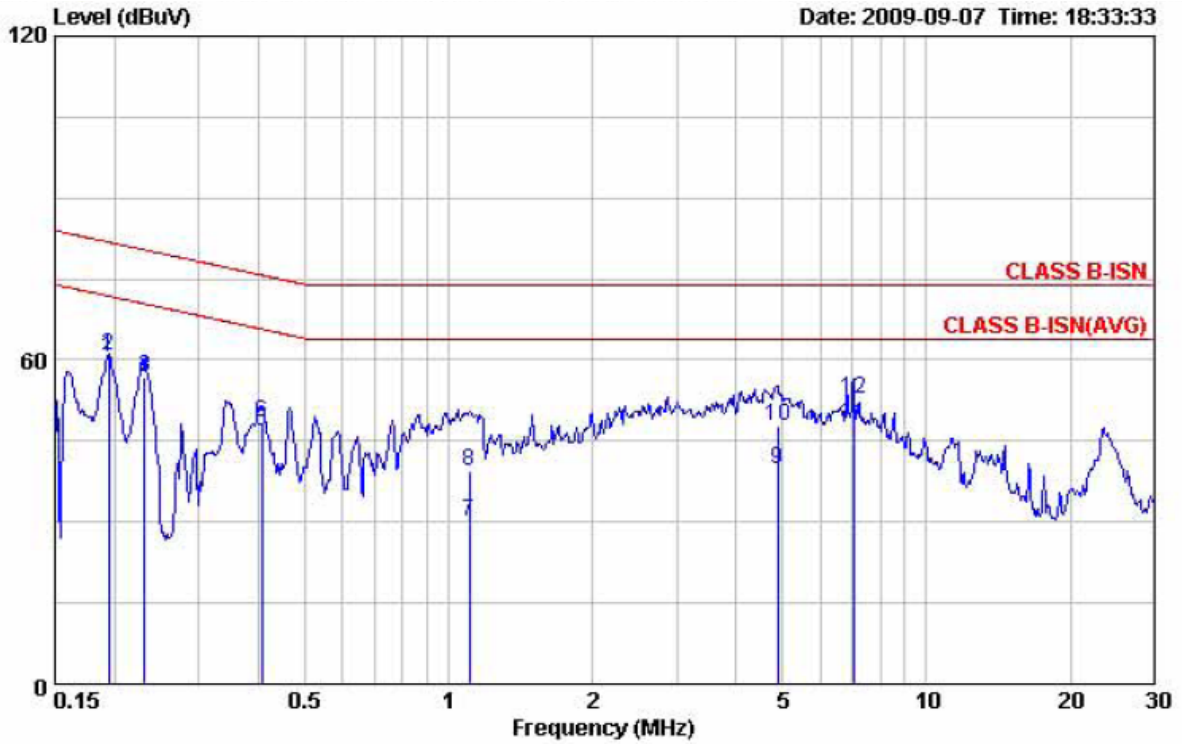


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.424	30.529	9.849	40.378	65.375	-24.997	Average
2	0.424	45.127	9.849	54.976	75.375	-20.399	QP
3	1.027	31.570	9.729	41.299	64.000	-22.701	Average
4	1.027	38.075	9.729	47.804	74.000	-26.196	QP
5	3.472	33.287	9.697	42.984	64.000	-21.016	Average
6	3.472	40.334	9.697	50.031	74.000	-23.969	QP
7	4.772	32.205	9.697	41.902	64.000	-22.098	Average
8	4.772	38.504	9.697	48.201	74.000	-25.799	QP
9	14.150	37.363	9.798	47.161	64.000	-16.839	Average
10	14.150	40.796	9.798	50.594	74.000	-23.406	QP
11	17.690	38.624	9.939	48.563	64.000	-15.437	Average
12	17.690	41.397	9.939	51.336	74.000	-22.664	QP

Remarks: 1. Result = Read Value + Factor  
2. Factor = LISN(ISN) Factor + Cable Loss



Power	: AC 120V	Temperature	: 25 °C
Test Mode 10	: ISN LAN (RJ11)	Humidity	: 63 %
Memo	:		



Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.194	50.363	10.027	60.390	71.844	-11.454	Average
2	0.194	50.701	10.027	60.728	81.844	-21.116	QP
3	0.232	46.704	9.988	56.692	70.391	-13.699	Average
4	0.232	46.664	9.988	56.652	80.391	-23.739	QP
5	0.406	36.974	9.862	46.836	65.727	-18.891	Average
6	0.406	38.688	9.862	48.550	75.727	-27.177	QP
7	1.106	20.360	9.727	30.087	64.000	-33.913	Average
8	1.106	29.587	9.727	39.314	74.000	-34.686	QP
9	4.874	30.223	9.697	39.920	64.000	-24.080	Average
10	4.874	38.095	9.697	47.792	74.000	-26.208	QP
11	7.022	38.254	9.719	47.973	64.000	-16.027	Average
12	7.022	43.235	9.719	52.954	74.000	-21.046	QP

Remarks: 1. Result = Read Value + Factor  
 2. Factor = LISN(ISN) Factor + Cable Loss

Test engineer: Tom



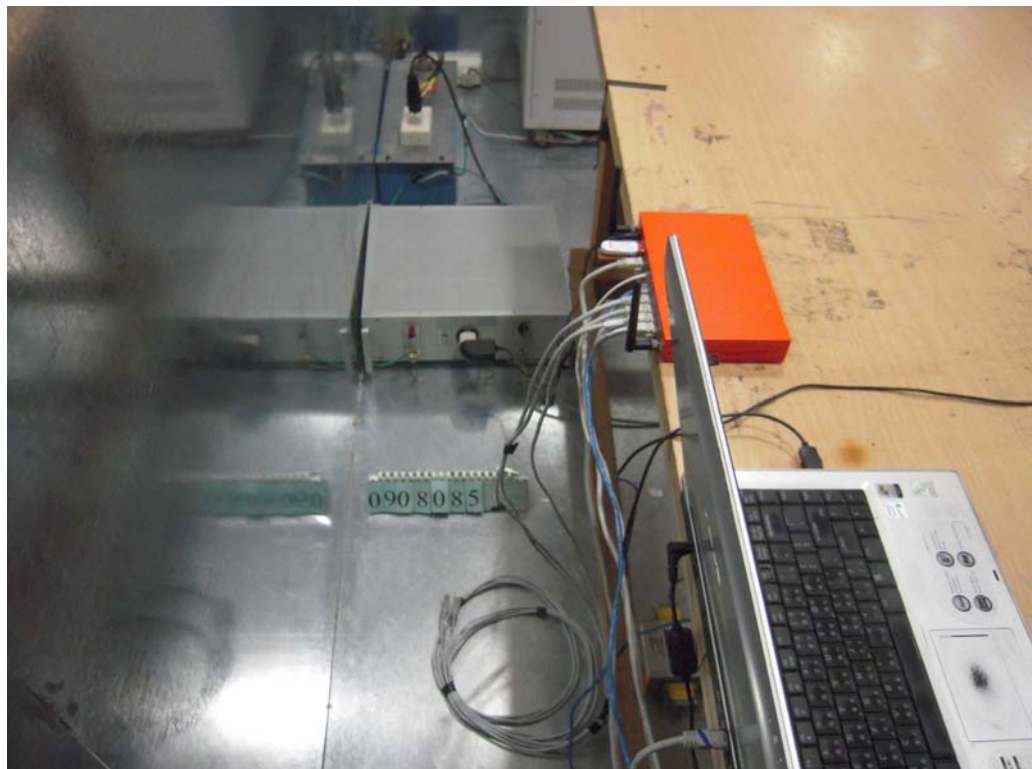
## 2.6. Test Photographs

### 2.6.1 Test Photographs of Power Port

Front View



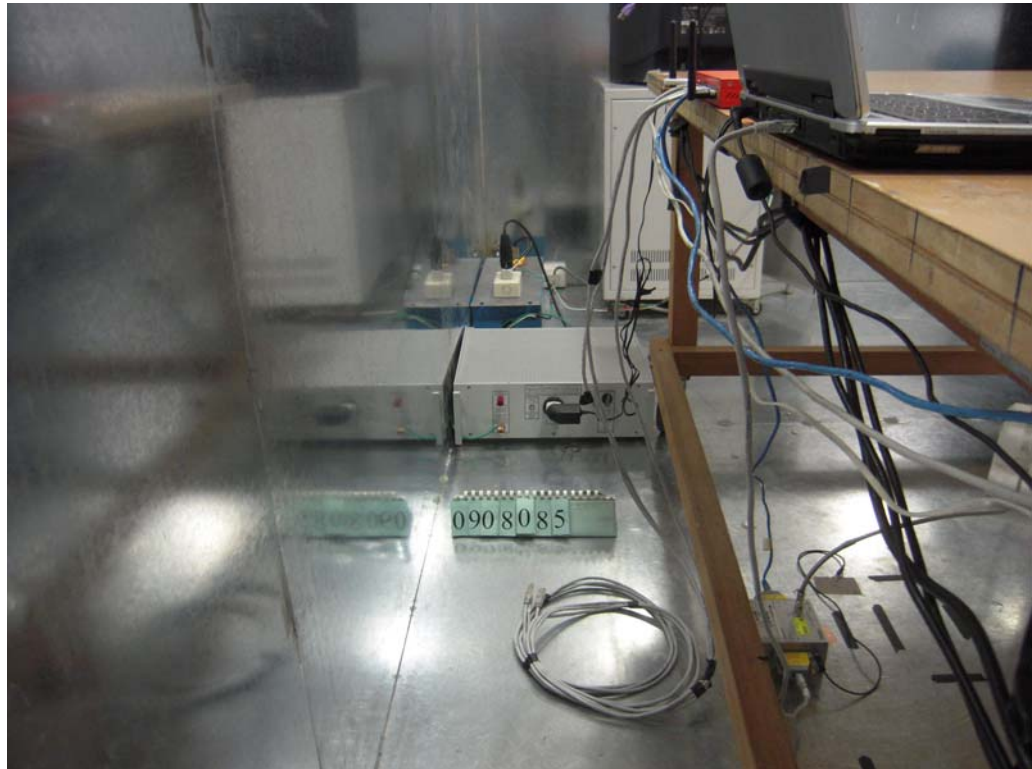
Rear View





### 2.6.2 Test Photographs of Telecommunication Port

Rear View





### 3. Test of Radiated Emission

#### 3.1. Test Limit

Radiated emissions from 30 MHz to 6,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-2003. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 3.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ( $\mu$ V / M)	Radiated (dB $\mu$ V/ M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

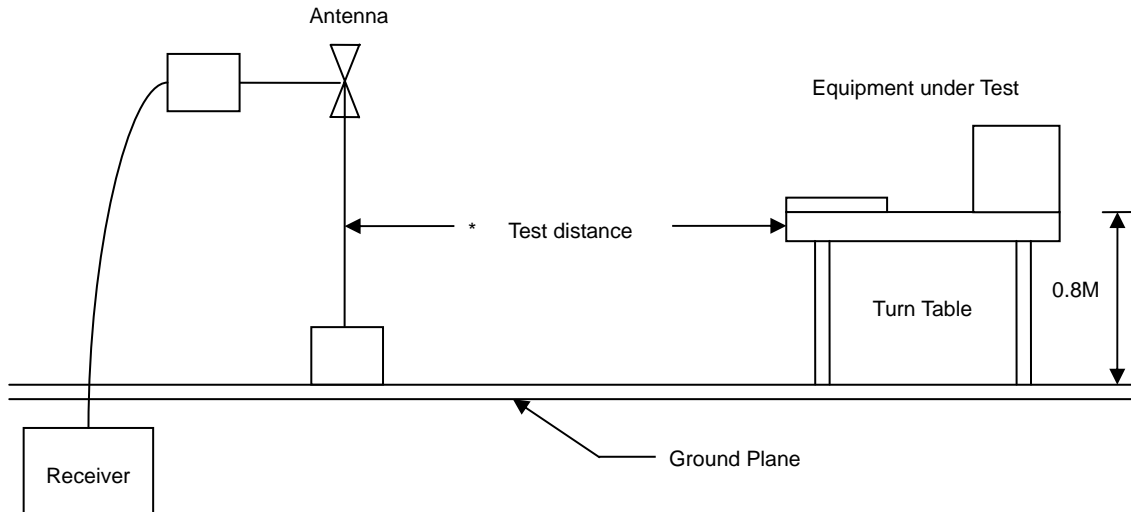
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

Frequency (MHz)	Distance Meters	Radiated (dB $\mu$ V/ M)
30-230	10	30
230-1000	10	37

#### 3.2. Test Procedures

- The EUT was placed on a Rota table top 0.8 meter above ground.
- The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

### 3.3. Typical test Setup



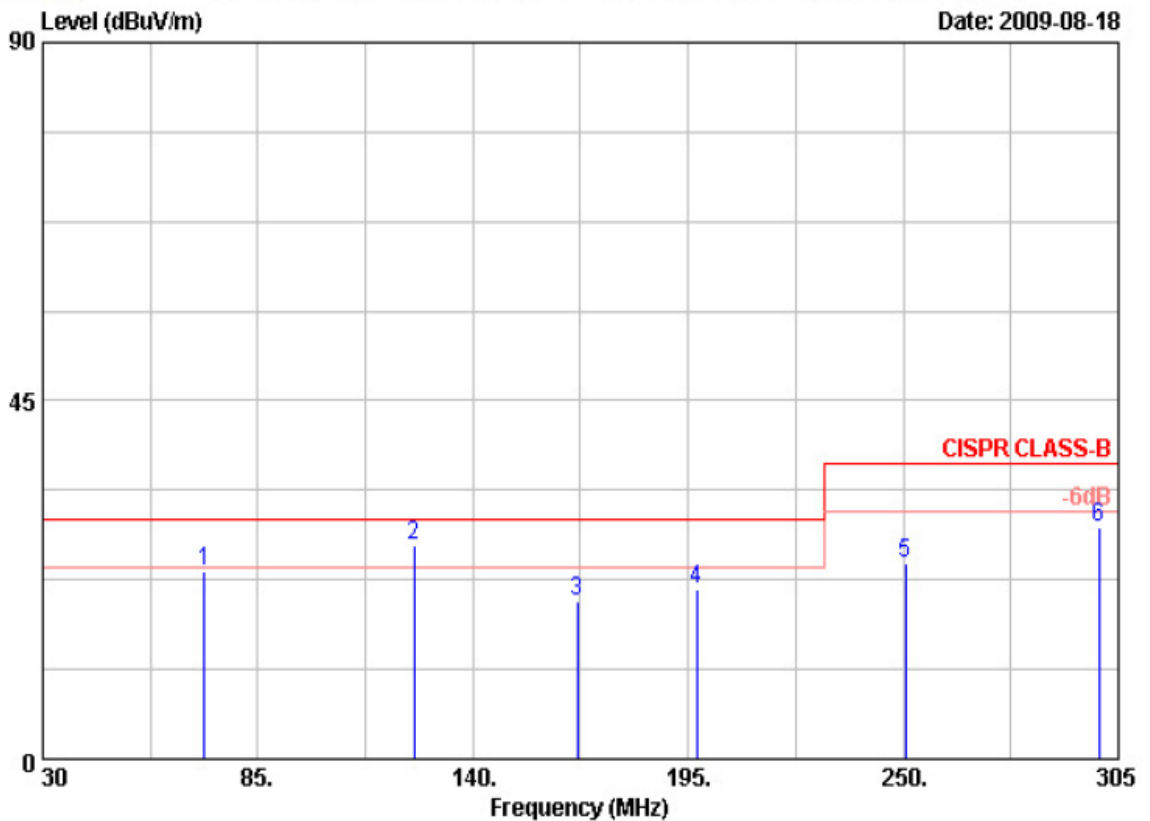
### 3.4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Bilog Antenna	Schaffner	CBL6112B	2840	2009/05/14	2010/05/13
Signal Generator	HP	8648B	3629U00612	2008/10/08	2009/10/07
Amplifier	Agilent	8447D	2944A10593	2009/05/21	2010/05/20
EMI Receiver	R&S	ESCI	100443	2008/12/19	2009/12/18
Spectrum Analyzer	R&S	FSP40	100047	2009/03/26	2010/03/25
Horn Antenna	EMCO	3115	31589	2009/05/04	2010/05/03
Preamplifier	Agilent	8449B	3008A01954	2009/02/27	2010/02/26



### 3.5. Test Result and Data

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: LINK LAN (100M) + Wireless	Temperature	: 30 °C
Memo	:	Humidity	: 70 %



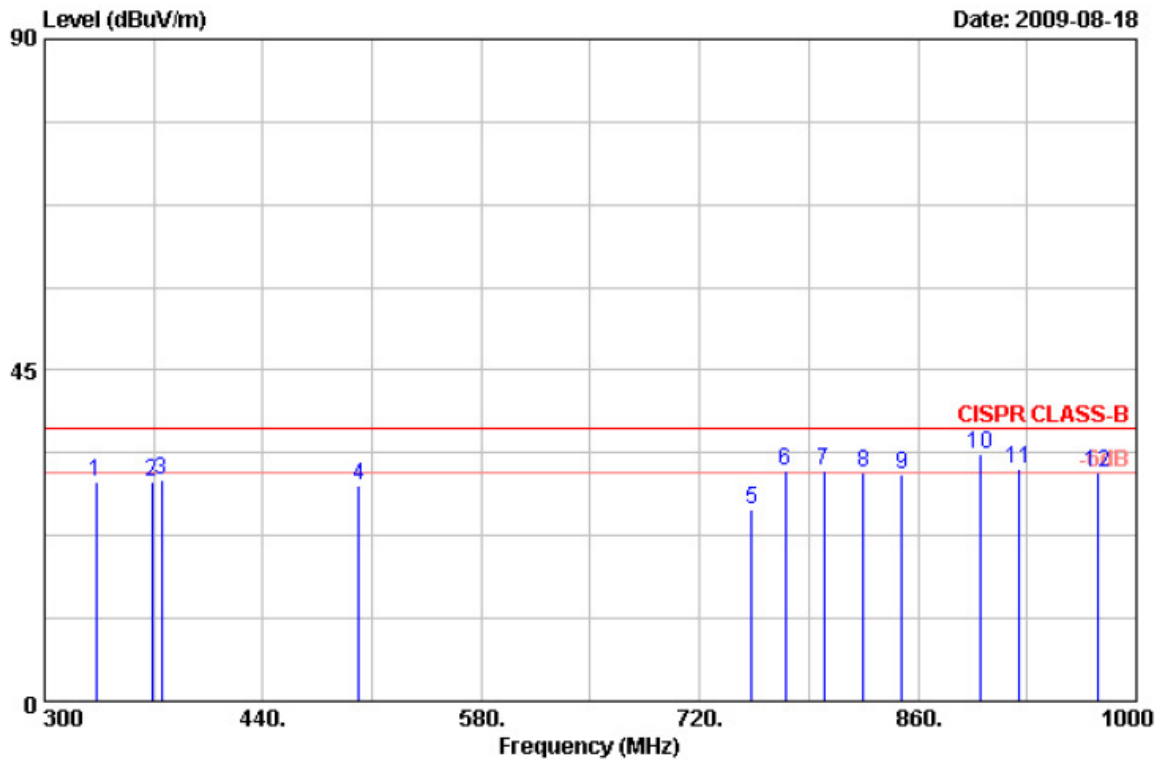
Item	Freq MHz	Read Value dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	71.250	44.019	-20.437	23.582	30.000	-6.418	Peak	100	360
2	125.007	40.200	-13.278	26.922	30.000	-3.078	QP	100	180
3	166.620	34.399	-14.514	19.885	30.000	-10.115	QP	100	0
4	197.200	37.840	-16.553	21.287	30.000	-8.713	Peak	100	360
5	250.550	37.718	-13.147	24.571	37.000	-12.429	Peak	100	360
6	300.050	40.479	-11.287	29.192	37.000	-7.808	Peak	100	360

Remarks: 1. Result = Read Value + Factor  
 2. Factor = Antenna factor + Cable loss - Amplifier factor





Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: LINK LAN (100M) + Wireless	Temperature	: 30 °C
Memo	:	Humidity	: 70 %

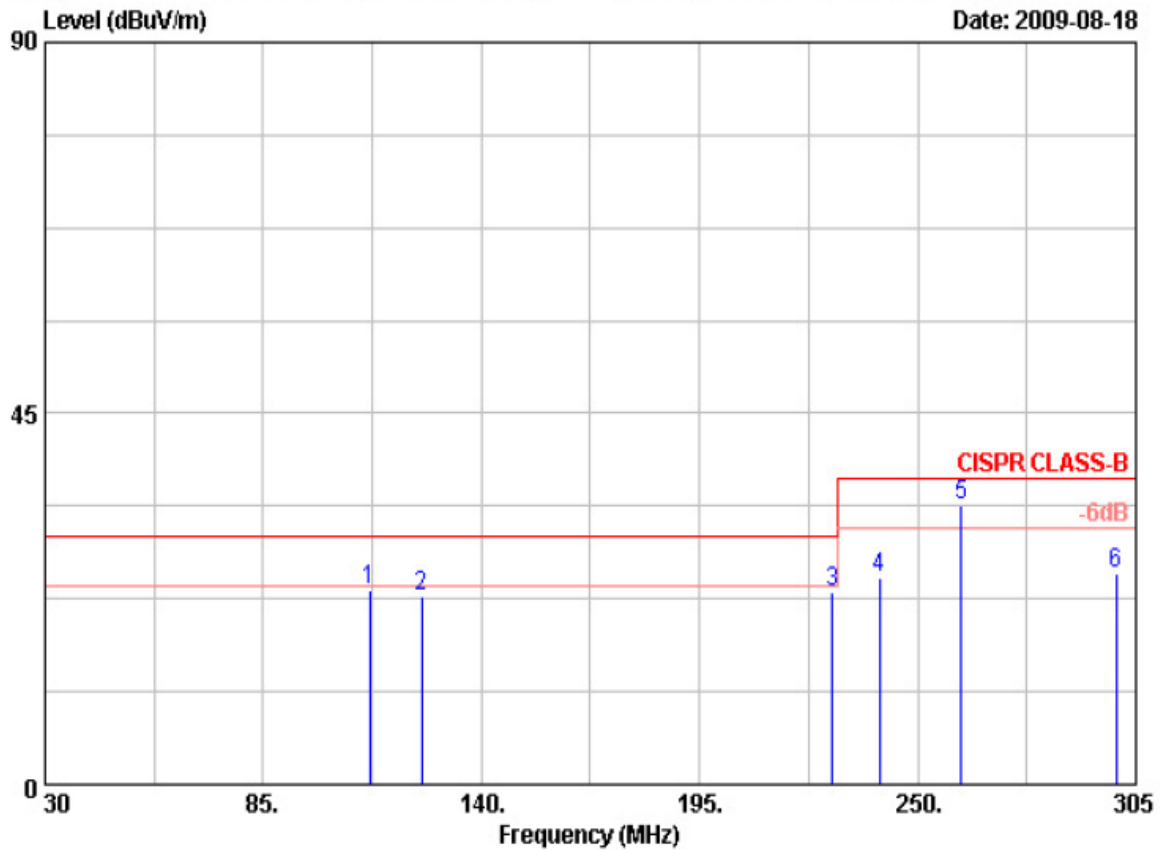


Item	Freq MHz	Read Value dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	333.309	39.921	-10.015	29.906	37.000	-7.094	Peak	400	360
2	368.600	38.491	-8.775	29.716	37.000	-7.284	Peak	400	360
3	375.028	38.700	-8.567	30.133	37.000	-6.867	QP	100	0
4	501.600	36.540	-7.172	29.368	37.000	-7.632	Peak	400	360
5	753.600	30.900	-4.918	25.982	37.000	-11.018	Peak	400	360
6	775.000	35.951	-4.518	31.433	37.000	-5.567	QP	100	0
7	799.971	35.269	-4.050	31.219	37.000	-5.781	QP	100	360
8	825.003	34.200	-3.237	30.963	37.000	-6.037	QP	100	0
9	849.988	33.300	-2.425	30.875	37.000	-6.125	QP	100	0
10	899.969	34.599	-1.000	33.599	37.000	-3.401	QP	100	180
11	924.990	32.301	-0.756	31.545	37.000	-5.455	QP	100	180
12	974.990	31.201	-0.116	31.085	37.000	-5.915	QP	100	60

Remarks: 1. Result = Read Value + Factor  
 2. Factor = Antenna factor + Cable loss - Amplifier factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: LINK LAN (100M) + Wireless	Temperature	: 30 °C
Memo	:	Humidity	: 70 %

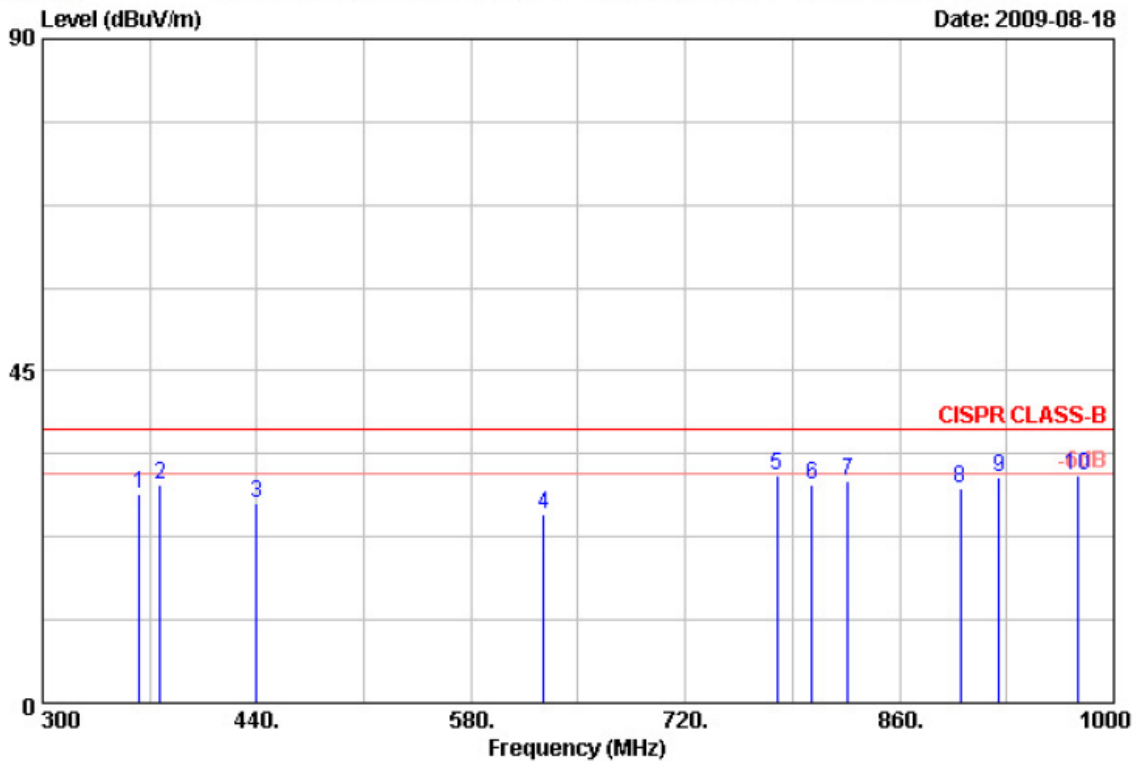


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	111.950	37.279	-13.743	23.536	30.000	-6.464	Peak	400	0
2	125.019	36.100	-13.280	22.820	30.000	-7.180	QP	400	280
3	228.550	39.240	-15.910	23.330	30.000	-6.670	Peak	400	0
4	240.375	39.360	-14.397	24.963	37.000	-12.037	Peak	400	0
5	260.933	45.699	-11.743	33.956	37.000	-3.044	QP	250	250
6	300.050	36.949	-11.287	25.662	37.000	-11.338	Peak	400	0

Remarks: 1. Result = Read Value + Factor  
 2. Factor = Antenna factor + Cable loss - Amplifier factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: LINK LAN (100M) + Wireless	Temperature	: 30 °C
Memo	:	Humidity	: 70 %

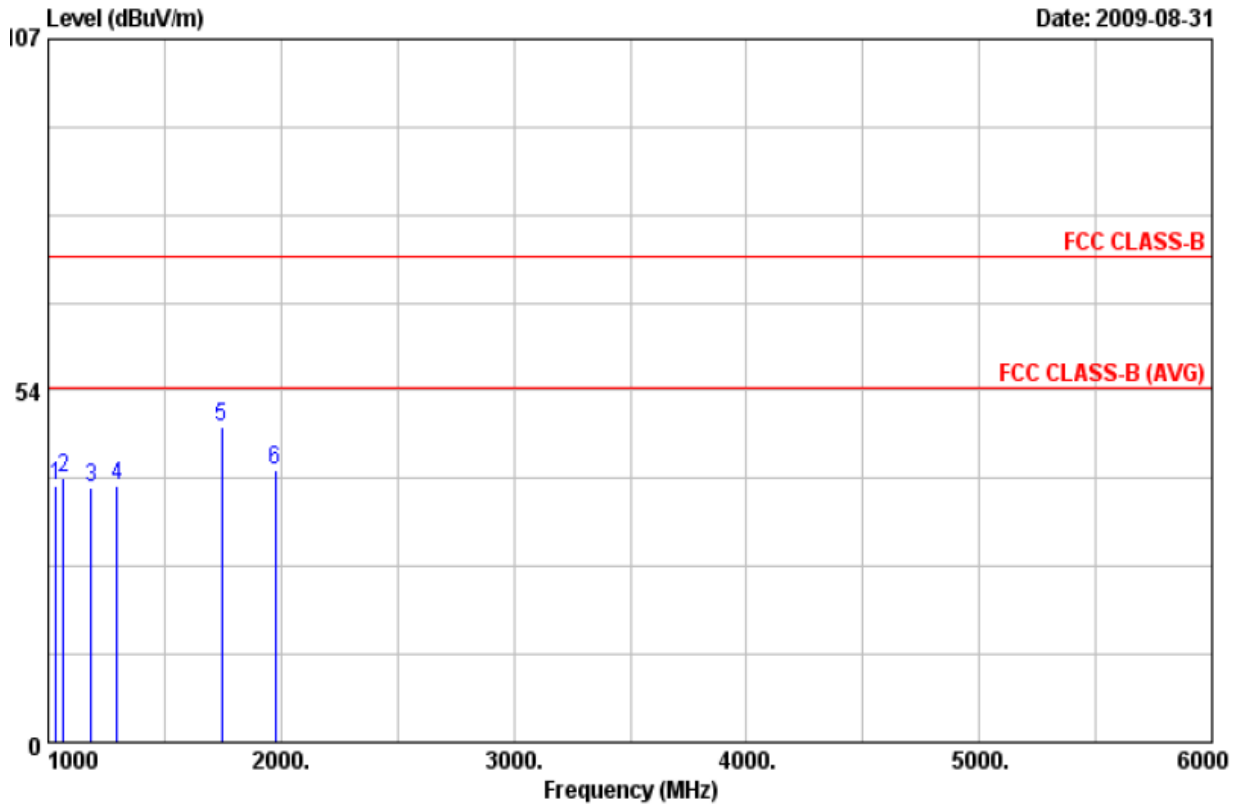


Item	Freq MHz	Read Value dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	363.000	37.260	-8.955	28.305	37.000	-8.695	Peak	100	0
2	377.000	38.150	-8.503	29.647	37.000	-7.353	Peak	100	0
3	440.000	34.400	-7.376	27.024	37.000	-9.976	Peak	100	0
4	627.600	31.951	-6.354	25.597	37.000	-11.403	Peak	100	0
5	779.983	35.300	-4.424	30.876	37.000	-6.124	QP	100	80
6	802.600	33.619	-3.965	29.654	37.000	-7.346	Peak	100	0
7	826.400	33.221	-3.193	30.028	37.000	-6.972	Peak	100	0
8	899.980	30.119	-1.000	29.119	37.000	-7.881	QP	300	60
9	924.989	31.341	-0.756	30.585	37.000	-6.415	QP	400	360
10	975.992	30.910	-0.099	30.811	37.000	-6.189	QP	250	110

Remarks: 1. Result = Read Value + Factor  
 2. Factor = Antenna factor + Cable loss - Amplifier factor



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: LINK LAN (100M) + Wireless	Temperature	: 25 °C
Memo	:	Humidity	: 64 %

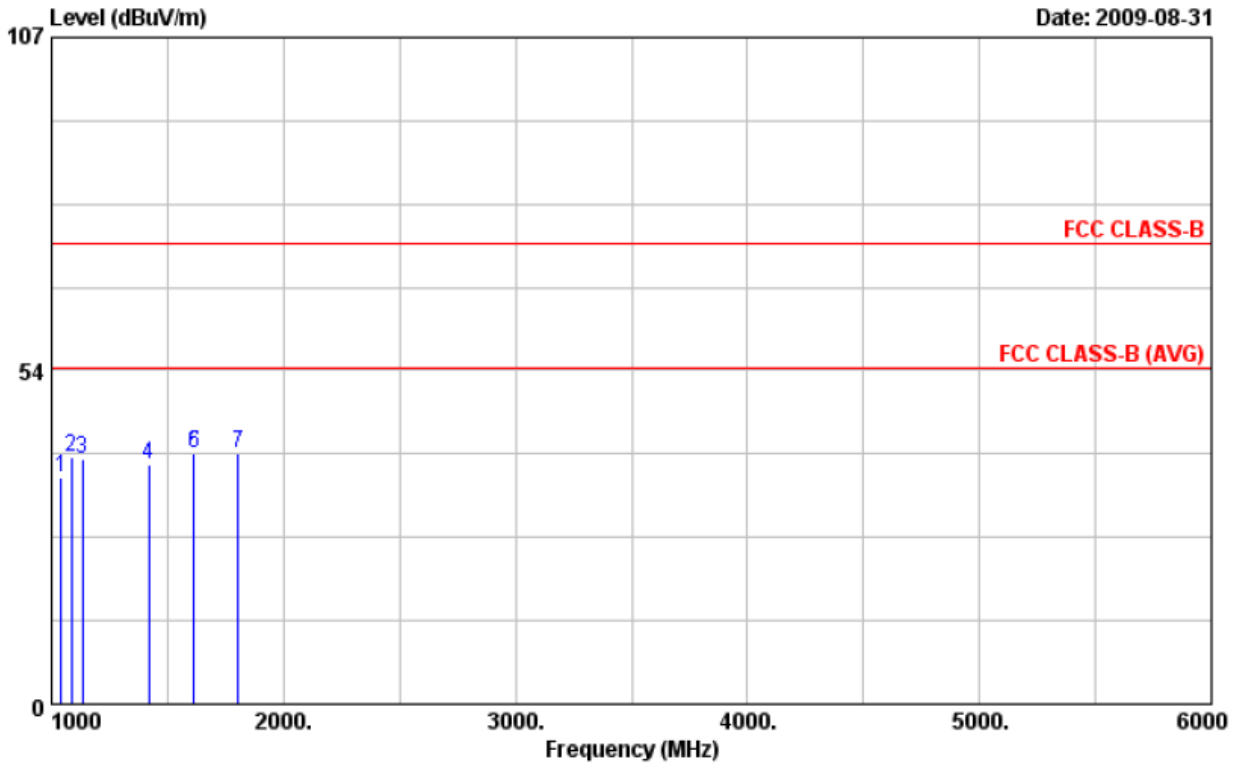


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	1035.000	48.309	-9.390	38.919	74.000	-35.081	Peak	100	360
2	1065.000	49.430	-9.210	40.220	74.000	-33.780	Peak	100	360
3	1185.000	47.201	-8.490	38.711	74.000	-35.289	Peak	100	360
4	1295.000	46.766	-7.830	38.936	74.000	-35.064	Peak	100	360
5	1745.000	53.202	-5.228	47.974	74.000	-26.026	Peak	100	360
6	1975.000	45.492	-3.940	41.552	74.000	-32.448	Peak	100	360

Remarks: 1. Result = Read Value + Factor  
 2. Factor = Antenna factor + Cable loss - Amplifier factor



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: LINK LAN (100M) + Wireless	Temperature	: 25 °C
Memo	:	Humidity	: 64 %



Item	Freq MHz	Read Value dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	1040.000	45.800	-9.360	36.440	74.000	-37.560	Peak	100	0
2	1085.000	48.658	-9.090	39.568	74.000	-34.432	Peak	100	0
3	1135.000	48.029	-8.790	39.239	74.000	-34.761	Peak	100	0
4	1420.000	45.463	-7.080	38.383	74.000	-35.617	Peak	100	0
5	1615.000	46.241	-5.956	40.285	74.000	-33.715	Peak	100	0
6	1615.000	46.241	-5.956	40.285	74.000	-33.715	Peak	100	0
7	1805.000	45.062	-4.892	40.170	74.000	-33.830	Peak	100	0

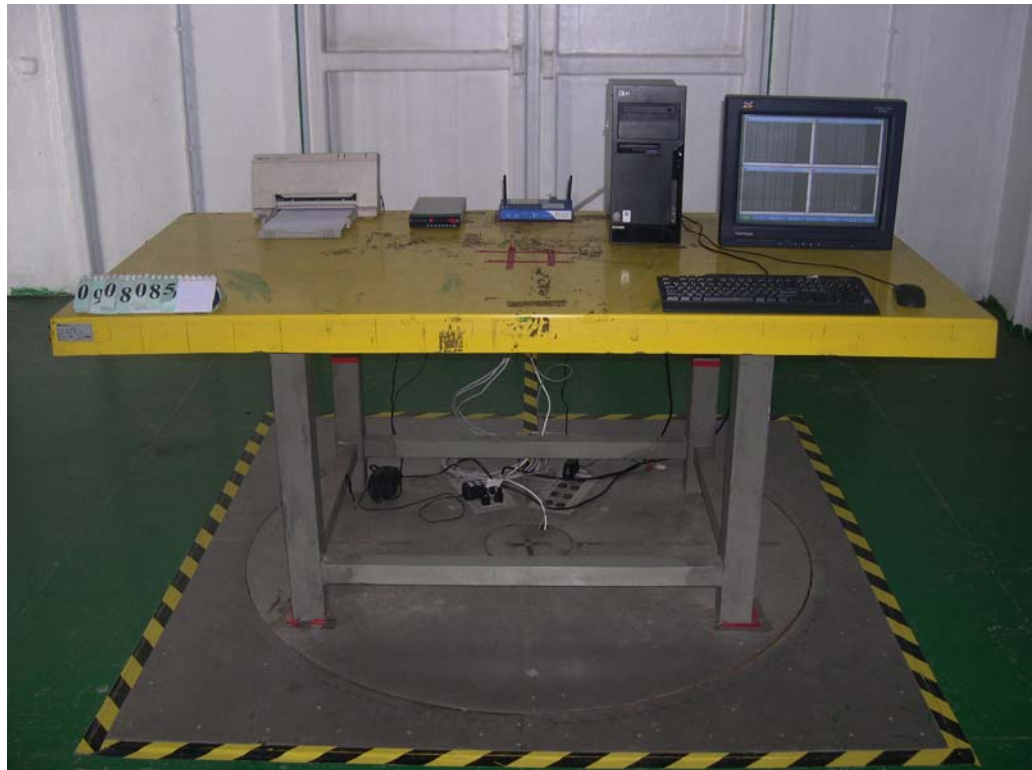
Remarks: 1. Result = Read Value + Factor  
 2. Factor = Antenna factor + Cable loss - Amplifier factor

Test engineer: Ray

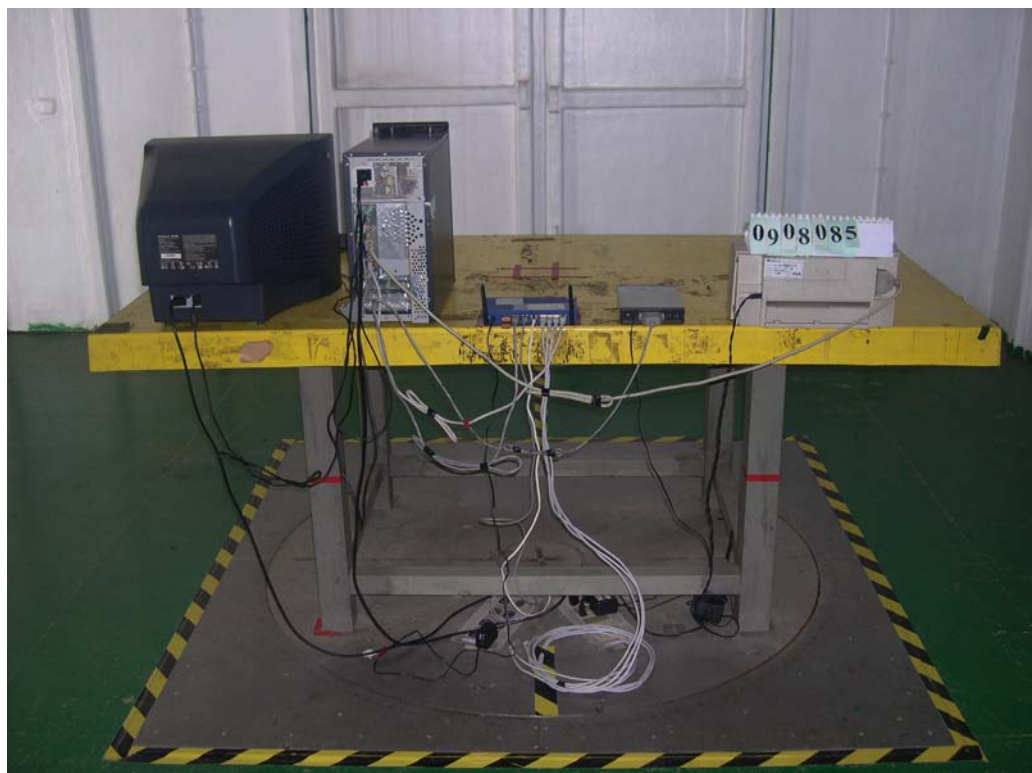


### 3.6. Test Photographs

Front View



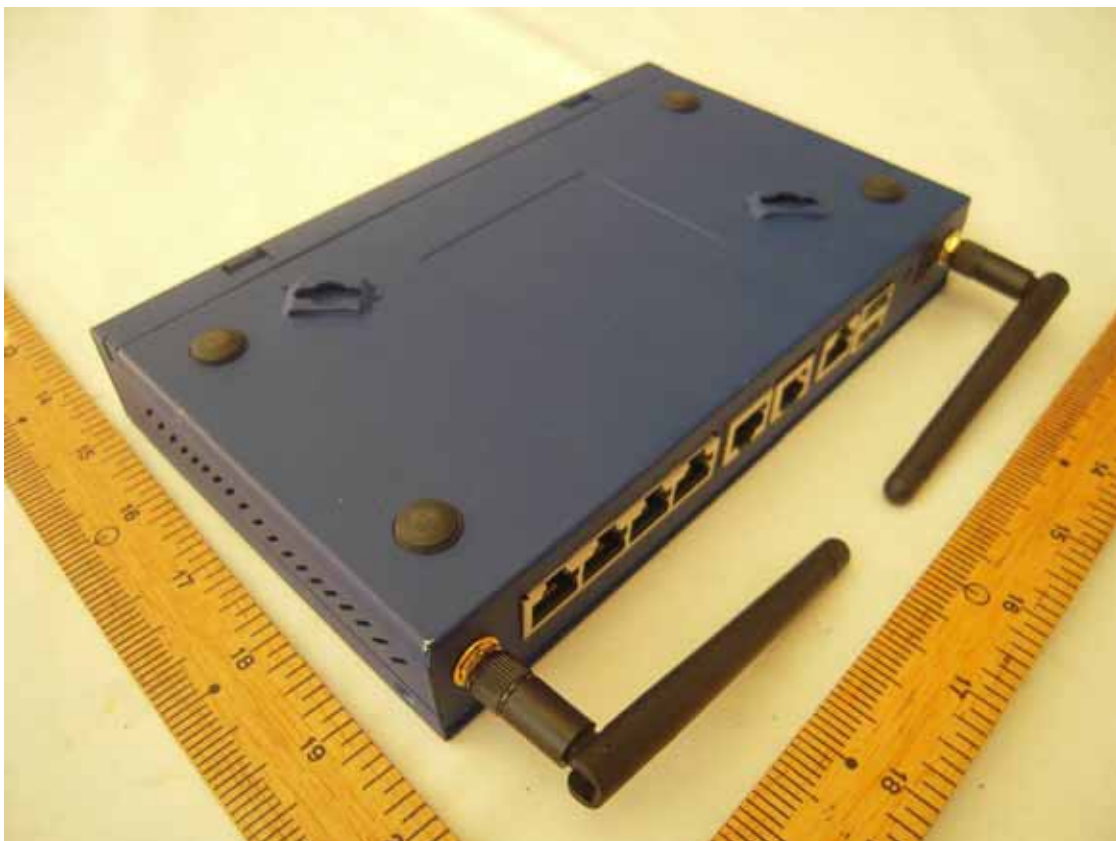
Rear View





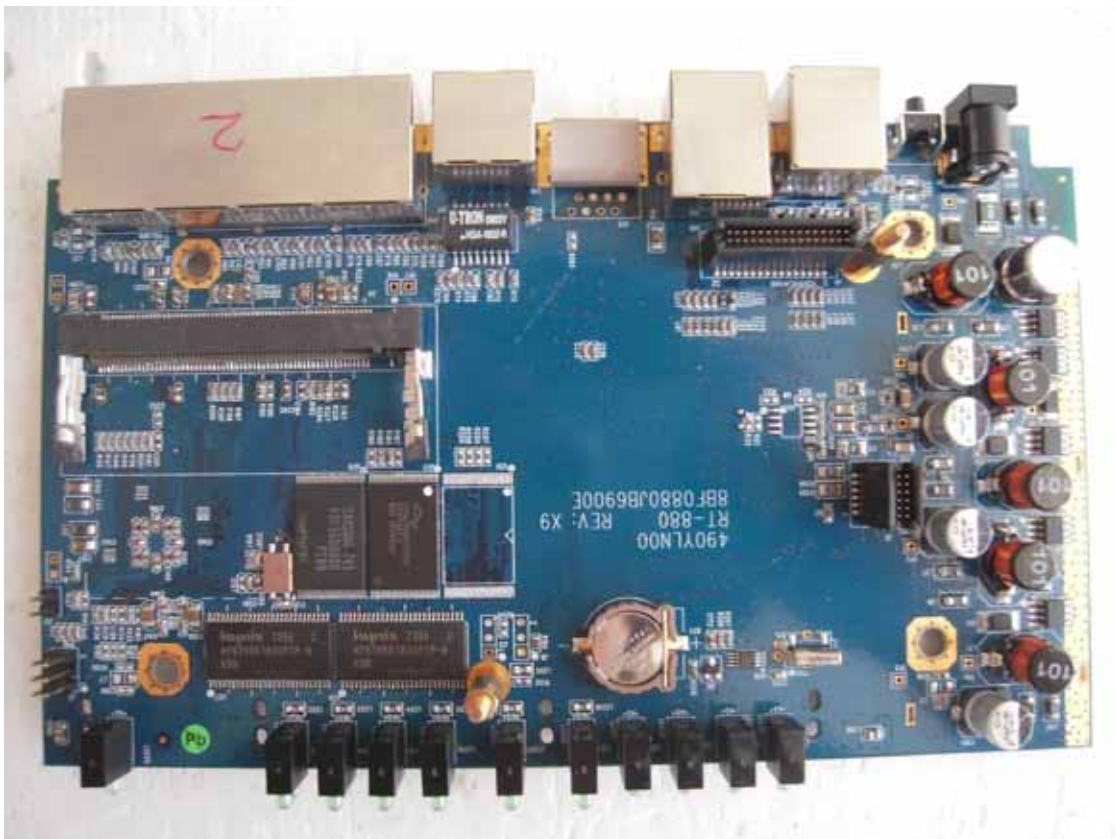
**Appendix A. Photographs of EUT**

**Model No.: SBXWD-166LHGE-5**



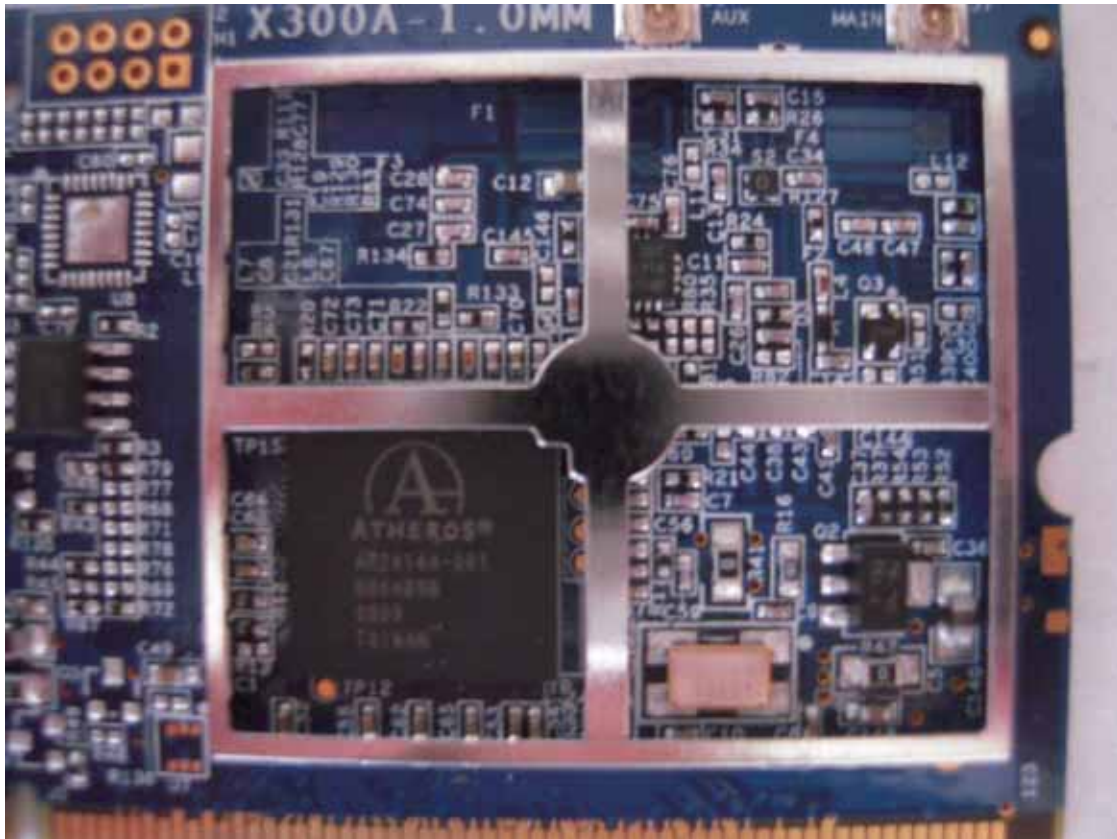










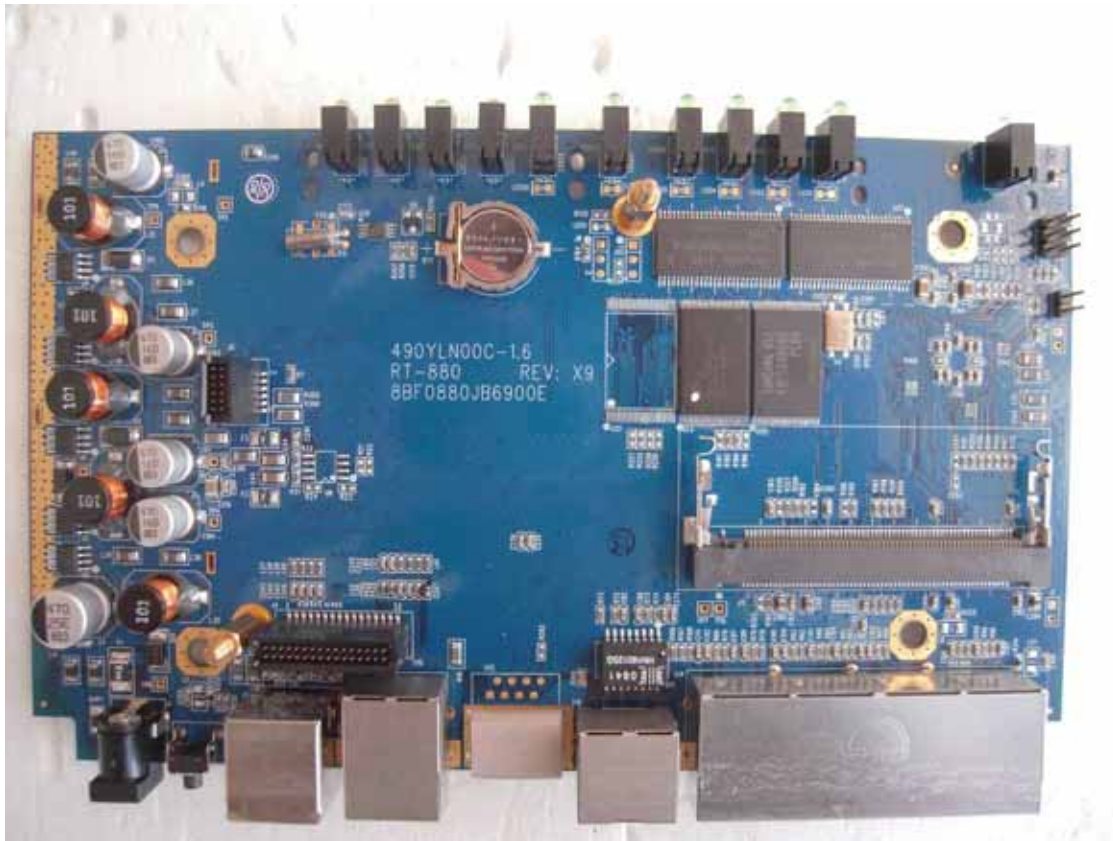


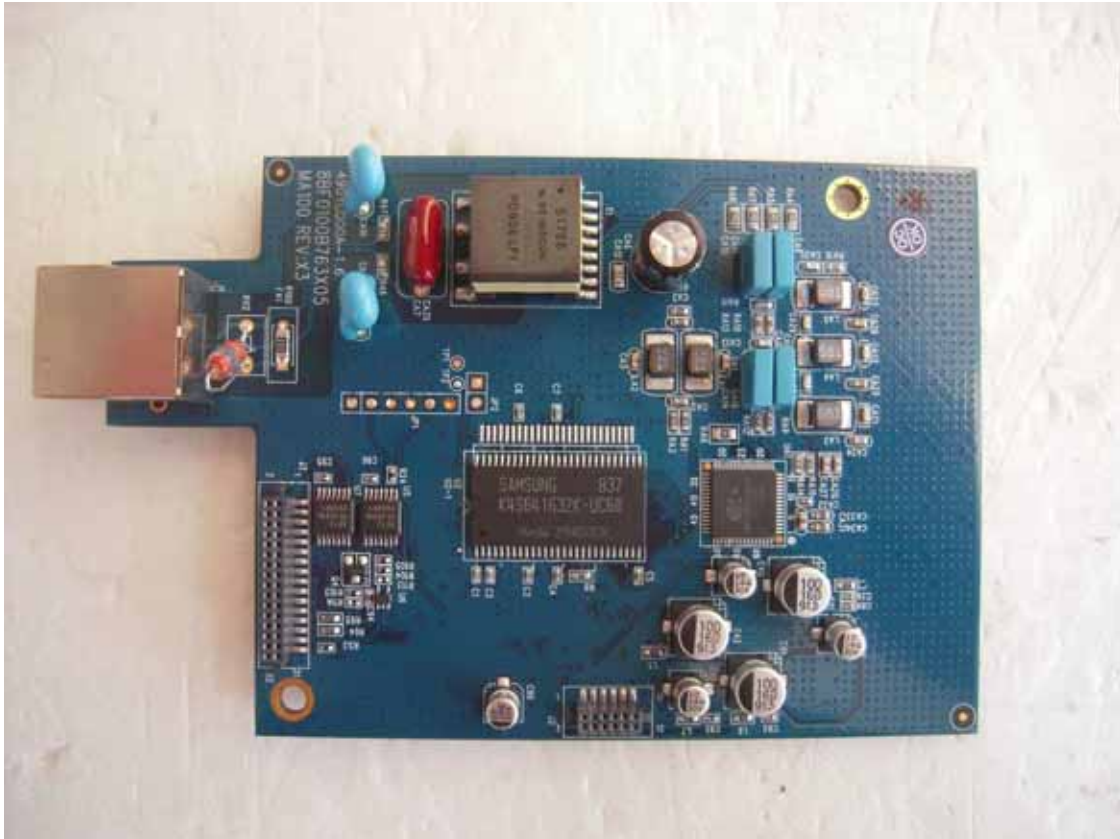
Model No.: SBXW-166LHGE-5



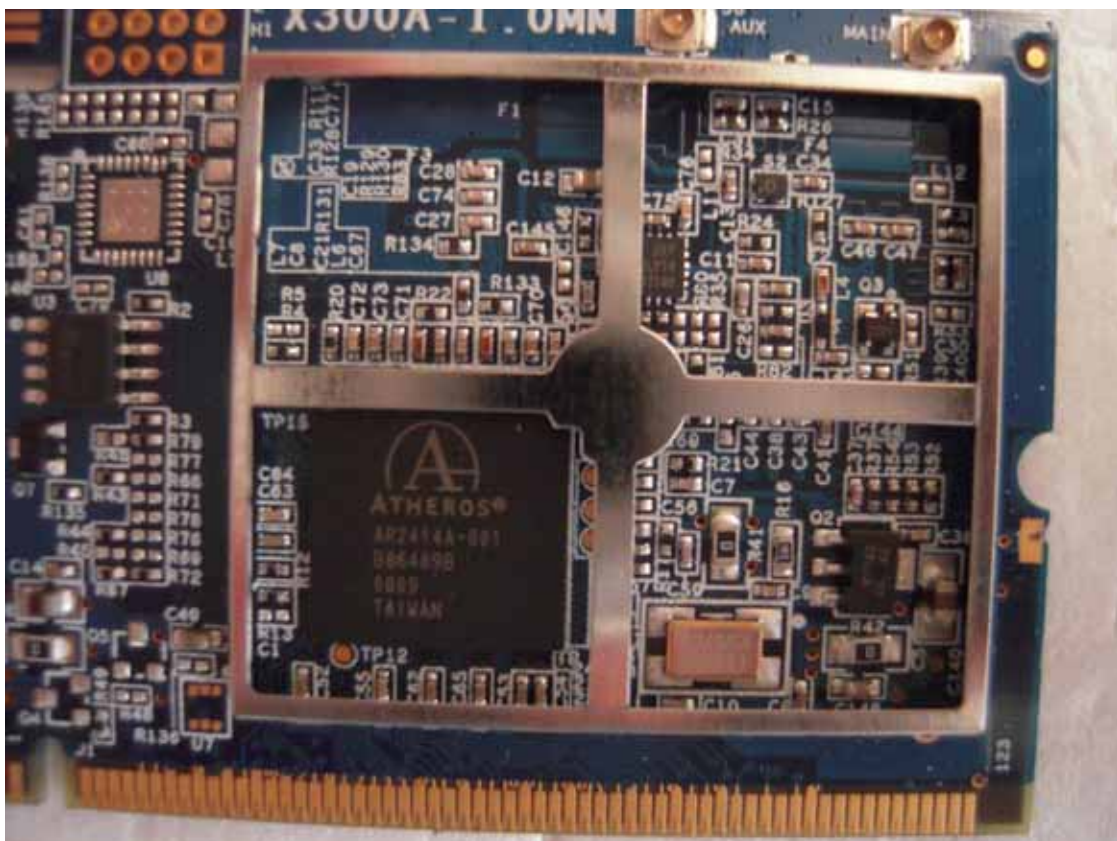














Adapter: Sunny \ SYS1308-2412-W2



