

# ***Measurement Report***

*Product*.....: DOCSIS Cable Modem  
*Applicant*.....: TURBOCOMM TECH. INC.  
*FCC ID*.....: N7ZEC200  
*Model*.....: See Appendix II  
*Report No.*.....: MLT0005P15004  
*Test Date*.....: May 07,2001

*Test By*

**Max Light Technology Co.,Ltd.**

*Room 5, 8F, No. 125, Section 3 Roosevelt Road,  
Taipei, Taiwan., R.O.C.*

**Tel: 886-2-2363-2447 Fax: 886-2-2363-2597**

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except in full, without the written approval of our laboratory.**



# MAX LIGHT

## MEASUREMENT REPORT

Page: 2/40

### Table of Contents :

<b>I. General</b>	<b>4</b>
<b>II. Conducted Emissions Requirements</b>	<b>13</b>
<b>III. Radiated Emissions Requirements</b>	<b>24</b>
<b>Appendix I (EUT Test Setup)</b>	<b>38</b>
<b>Appendix II (Model List)</b>	<b>40</b>



# MAX LIGHT

## MEASUREMENT REPORT

Page: 3/40

## CERTIFICATION

*We here by verify that :*

**The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4-1992. All test were conducted by MLT(Max Light Technology Co.,Ltd) Room 5, 8F, No.125, Section 3 Roosevelt Road, Taipei, Taiwan, R.O.C Also, we attest to the accuracy of each.**

**We further submit that the energy emitted by the sample EUT tested as described in the report is in compliance with Class B radiated and conducted emission limit of FCC Rules Part 15 Subpart B.**

**EUT : DOCSIS Cable Modem**

**Applicant : TURBOCOMM TECH. INC.  
4F-2, No.171, Sung-Tech Road,  
Taipei ,Taiwan**

**Manufacturer : TURBOCOMM TECH. INC.  
No.369,Sec.3 Chun Cheng East Road,  
Wu Chuan Tsun,Ta Yuan Hsiang,Tao Yaun  
Hsien,Taiwan,R.O.C.**

**Model No : See Appendix II**

**FCC ID : N7ZEC200**

Prepared by Country Huang

Approved by Roger Chen

## ***I. GENERAL***

### **1.1 Introduction**

**The following measurement report is submitted on behalf of TURBOCOMM TECH. INC. In support of a Class B Digital Device certification in accordance with Part2 Subpart J and Part 15 Subpart A And B of the Commission s and Regulations.**

### **1.2 Description of EUT**

**EUT : DOCSIS Cable Modem**

**Applicant : TURBOCOMM TECH. INC.**  
**4F-2, No.171, Sung-Tech Road,**  
**Taipei ,Taiwan**

**Manufacturer : TURBOCOMM TECH. INC.**  
**No.369,Sec.3 Chun Cheng East Road,**  
**Wu Chuan Tsun,Ta Yuan Hsiang,Tao Yaun**  
**Hsien,Taiwan,R.O.C.**

**Model No : See Appendix II**

**FCC ID : N7ZEC200**

**Power Type : Powered by AC Adaptor (12V DC/1 Amp)**

**Ethernet Cable : RJ-45 x1 (Nonshielded, 6' long ,Plastic hoods)**

**USB Cable : USB Cable x1 (Shielded, 70cm long)**

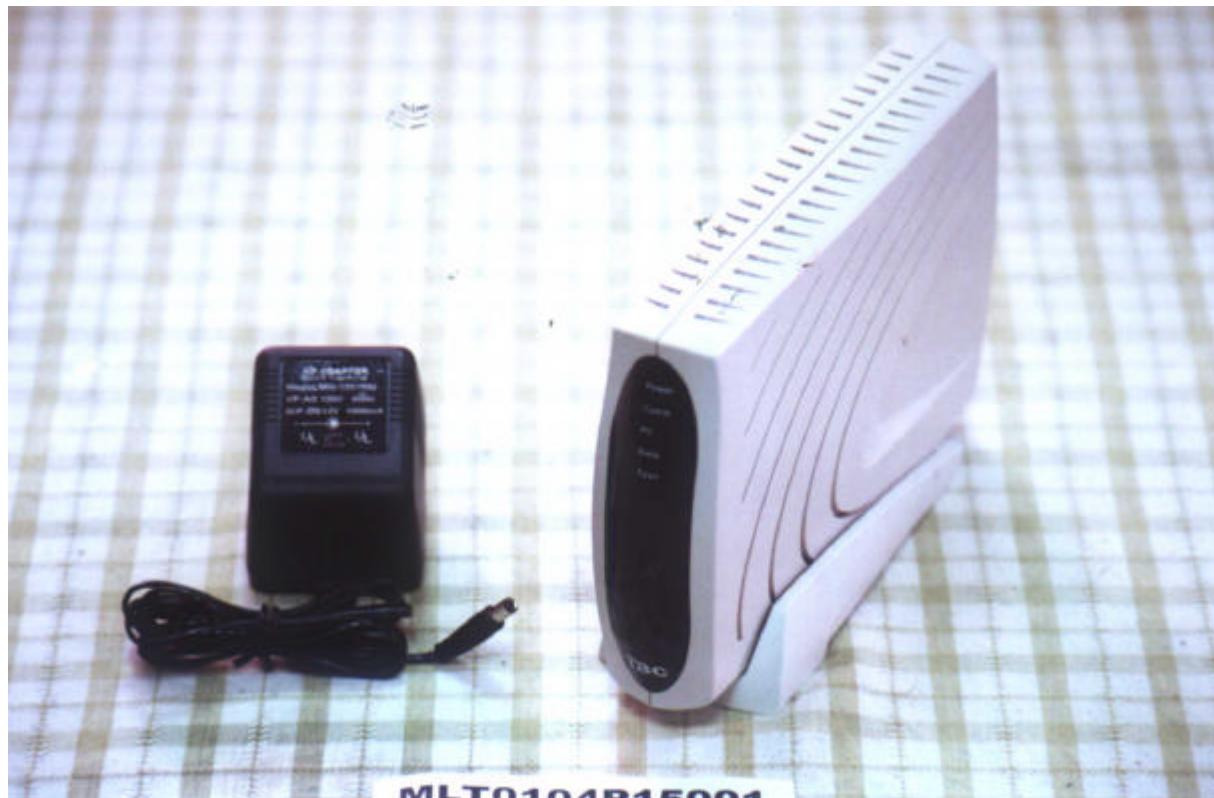
**During testing the EUT was operated at Tx or Rx mode for each emission measured(P.S Run "Ping (IP Address) -T -L 1000" comment in Dos Mode). This was done in order to ensure that maximum emission levels were attained.**

**1.2 Model Difference**

Model No.	Difference	Note
DAZ8815X/EC200XY	1.A shell of plastic is different. 2.A setting way of a screw is different.	
EC290XY	The EUT's shell is metal	



**DAZ8815X Series**  
(X =blank or any character)



**EC200XY Series**  
**(X =blank or any character)**  
**(Y =blank or any character)**



**EC290XY Series**  
**(X =blank or any character)**  
**(Y =blank or any character)**

### **1.3 Description of Support Equipment**

**In order to construct the minimum system which required by the ANSI C63.4-1991, following equipments were used as the support units.**

*Computer* : IBM

**Model No.** : 16W

**Serial No.** : BNC345M

**FCC ID** : FCC(DOC)

*Keyboard* : IBM

**Model No.** : KB-9930

**Serial No.** : 09N5395

**FCC ID** : FCC(DOC)

*Monitor* : IBM

**Model No.** : 10L6145 030

**Serial No.** : 23-092079

**FCC ID** : ARSCM569N

*Mouse* : IBM

**Model No.** : 0180-05N

**Serial No.** : 23-092079

**FCC ID** : JNZ211220

*Printer* : PANASONIC

**Model No.** : KX-P1080I

**Serial No.** : 7CKAKE98933

**FCC ID** : ACJ5Z6KX-P10801

*Cable Head End* : Cisco

**Model No.** : Ubr7246

**Serial No.** : N/A



# MAX LIGHT

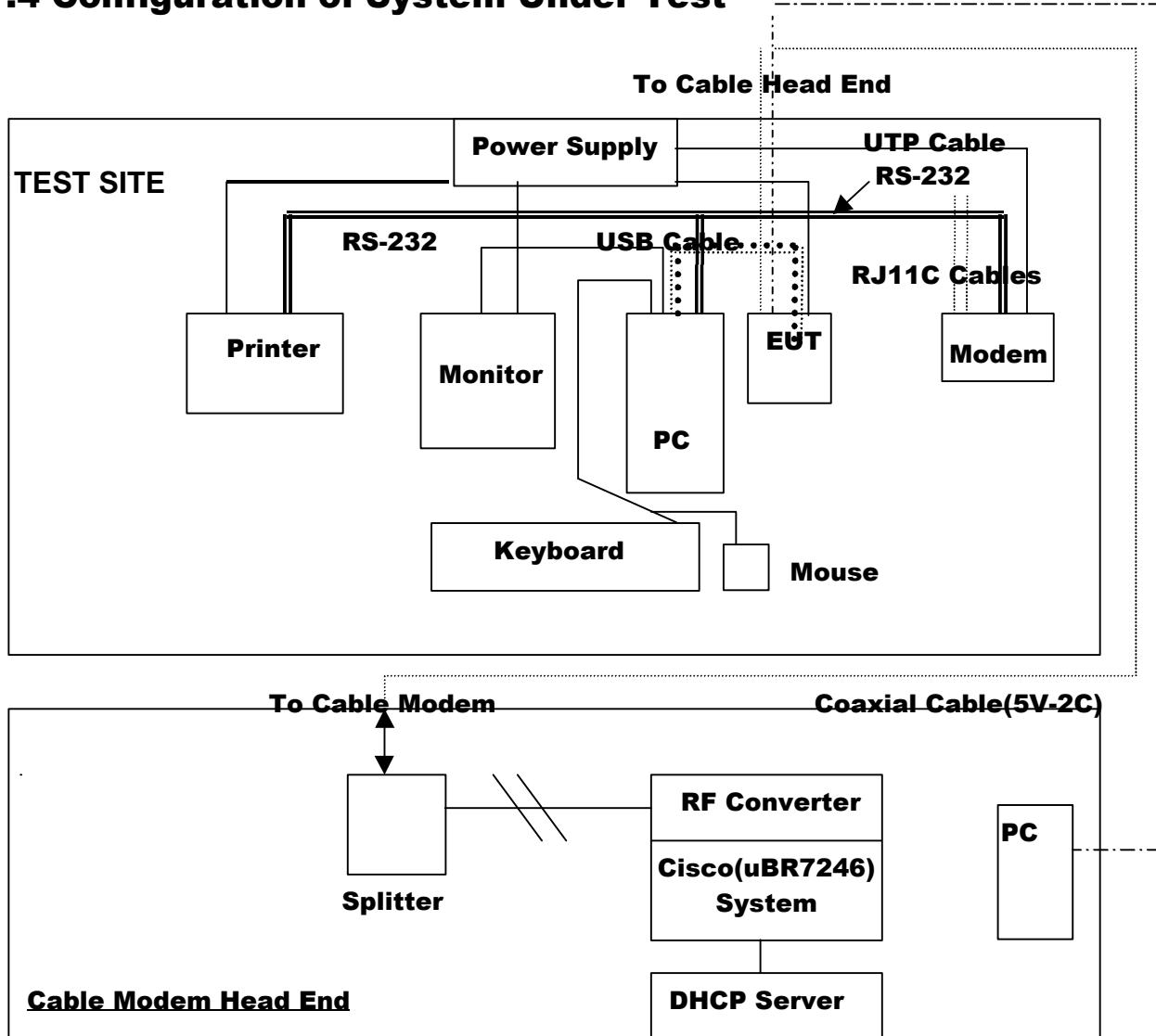
## MEASUREMENT REPORT

Page: 9/40

*Ethernet Card* : **DELTA**  
**Model No.** : **NE2000 Ethernet Adapter**  
**Serial No.** : **4712544**

*Modem* : **Askey (External Fax / Data Modem)**  
**Model No.** : **WS1414VE**  
**Serial No.** : **IAH-10811**  
**FCC ID** : **H8N1414VE**

## 1.4 Configuration of System Under Test [To Other Ethernet Card](#)



During testing the EUT(DOCSIS Cable Modem ) was connected to the USB port of IBM PC. So there is no need for additional I/O card. A mouse was connected to the mouse port and a printer was connected to the parallel port. A external modem connected the serial port and the external modem connected with two unterminated telephone cables on the line and phone jack. A coaxial cable(5C-2V) was connected to the F connector of EUT and the coaxial cable(5C-2V) was connected to a simulator of cable modem head end . A UTP cable was connected to the RJ-45 connector of EUT and the UTP cable was connected to RJ-45 connector of other computer's ethernet card.



**Cable Modem Head End**

## **1.5 Test Procedure**

**All measurements contained in this report were performed according to the techniques described in Measurement procedure ANSI C63.4-1992 "Measurement of unintentional radiators."**



# MAX LIGHT

## MEASUREMENT REPORT

Page: 12/40

### 1.6 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests was chosen as that which produced the highest emission levels. However, only those conditions which the EUT was considered likely to encounter in normal use were investigated. The system's radiated and conducted emissions were investigated while the computer alternately transferred data to the EUT (1000 bytes). Run "Ping (IP Address -T -L 1000)" comment which sent a continuous stream of 1000 Bytes data to EUT and transferred data to and from the EUT was proven to worst case emissions. The system's physical layout and cabling was randomly arranged to ensure that maximum emission levels were attained.

## ***II. Conducted Emissions Requirements***

### **2.1 General & Setup :**

**The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.**

**Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3825/2 Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPER quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.**

**The spectrum was scanned from 450 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.**

### **2.2 Test Equipment List:**

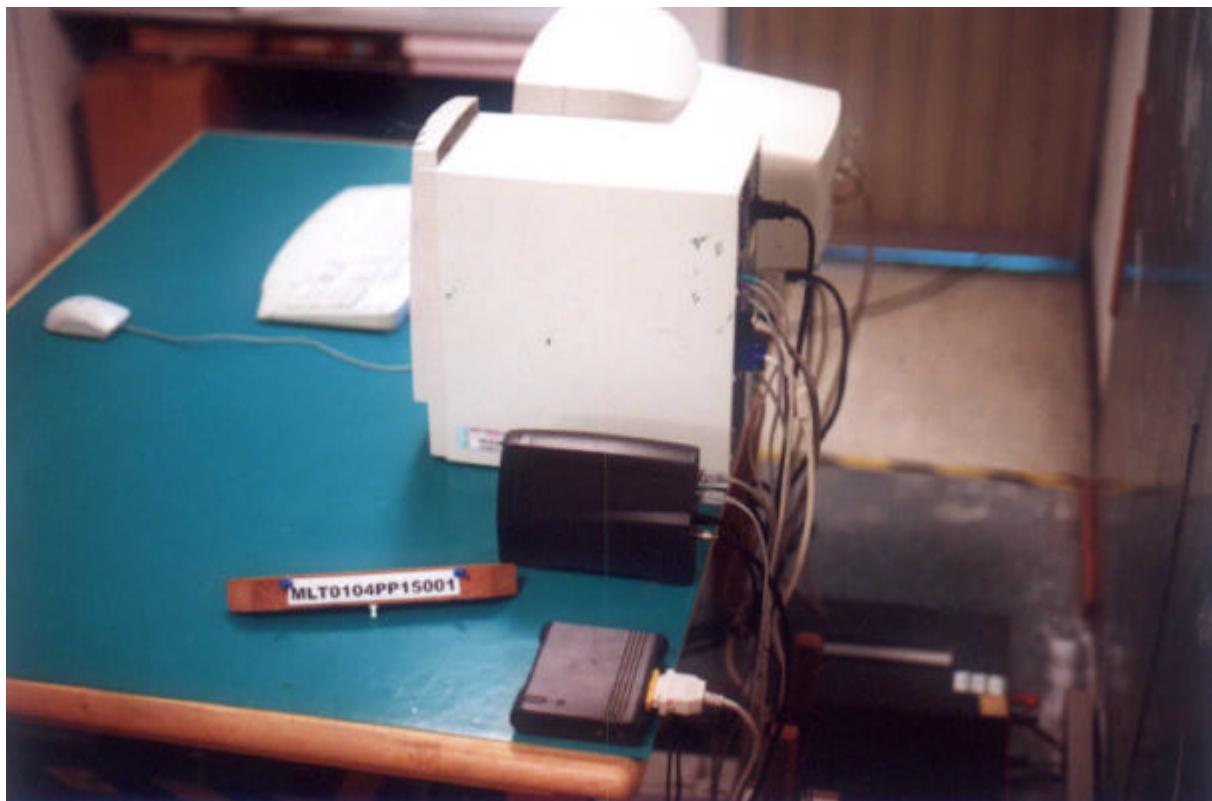
- A. EMCO 3825/2 LISN (S/N:2654)**
- B. EMCO 3825/2 LISN (S/N:2658)**
- C. HP 8591EM 9KHZ-1.8GHz Spectrum Analyzer (S/N:73412A00110)**
- D. Shielded Room (MLT-SR1)**

## **2.3 Test Configuration:**

### **2.3.1 Test Configuration(DAZ8815X):**



**Front View of The Test Configuration  
(DAZ8815X Series)**



**Rear View of The Test Configuration  
(DAZ8815X Series)**

### **2.3.2 Test Configuration(EC200XY):**



**Front View of The Test Configuration  
(EC200XY Series)**



**Rear View of The Test Configuration  
(EC200XY)**

### **2.3.3 Test Configuration(EC290XY):**



**Front View of The Test Configuration  
(EC290XY Series)**



**Rear View of The Test Configuration  
(EC290XY)**

## **2.4 Test condition:**

**EUT tested in accordance with the specifications given by the manufacturer , and exercised in the most unfavorable manner.**

## **2.5 Conducted Emissions Limits:**

<i>Frequency range (MHz)</i>	<i>Limits (dBuV)</i>
0.45 to 30	47.9

## 2.6 Measurement Data Of Conducted Emissions:

### 2.6.1 Measurement Data(DAZ8815X):

**The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.**

Manufacturer : TURBOCOMM TECH. INC..

Model No : DAZ8815X

EUT : DOCSIS Cable Modem

Power Line Conducted Emissions (Class B)			
Conductor	Frequency (MHz)	Peak Amplitude (dBuV)	Limits (dBuV)
L1	0.45	34.56	47.9
	0.97	39.01	47.9
	1.45	40.17	47.9
	2.99	39.76	47.9
	6.94	35.45	47.9
	11.09	37.39	47.9
	16.78	34.56	47.9
L2	0.45	33.17	47.9
	0.97	38.45	47.9
	1.45	41.09	47.9
	2.99	39.32	47.9
	6.94	37.16	47.9
	11.09	38.93	47.9
	16.78	33.05	47.9

Notes : **1.L1: One end & Ground L2: The other end & Ground**  
**2.Height of table on which the EUT was placed : 0.8 m.**  
**3.The above test results are obtained under the normal condition.**

### **2.6.2 Measurement Data(EC200XY Series):**

**The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.**

Manufacturer : TURBOCOMM TECH. INC..

Model No : EC200XY

EUT : DOCSIS Cable Modem

<b>Power Line Conducted Emissions (Class B)</b>			
<b>Conductor</b>	<b>Frequency (MHz)</b>	<b>Peak Amplitude (dBuV)</b>	<b>Limits (dBuV)</b>
<b>L1</b>	0.45	34.17	47.9
	0.98	39.76	47.9
	1.21	39.03	47.9
	2.98	38.61	47.9
	6.88	36.99	47.9
	11.10	38.03	47.9
	15.41	35.16	47.9
<b>L2</b>	0.45	32.67	47.9
	0.98	38.43	47.9
	1.21	39.21	47.9
	2.98	36.05	47.9
	6.88	36.98	47.9
	11.10	39.17	47.9
	15.41	35.44	47.9

Notes : **1.L1: One end & Ground L2: The other end & Ground**  
**2.Height of table on which the EUT was placed : 0.8 m.**  
**3.The above test results are obtained under the normal condition.**

### **2.6.3 Measurement Data(EC290XY Series):**

**The following table show a summary of the highest emissions of power line conducted emissions to the HOT and NATURAL conductor of the EUT power.**

*Manufacturer : TURBOCOMM TECH. INC..*

*Model No : EC290XY*

*EUT : DOCSIS Cable Modem*

<b>Power Line Conducted Emissions (Class B)</b>			
<b>Conductor</b>	<b>Frequency (MHz)</b>	<b>Peak Amplitude (dBuV)</b>	<b>Limits (dBuV)</b>
<b>L1</b>	0.45	37.98	47.9
	0.65	39.04	47.9
	2.16	33.87	47.9
	3.98	47.65	47.9
	10.45	34.72	47.9
	20.16	33.54	47.9
	25.97	35.16	47.9
<b>L2</b>	0.45	38.74	47.9
	0.65	39.13	47.9
	2.16	33.43	47.9
	3.98	47.67	47.9
	10.45	34.45	47.9
	20.16	32.59	47.9
	25.97	34.04	47.9

*Notes : 1. L1: One end & Ground L2: The other end & Ground*

*2. Height of table on which the EUT was placed : 0.8 m.*

*3. The above test results are obtained under the normal condition.*

### **III. Radiated Emissions Requirements**

#### **3.1 General & Setup :**

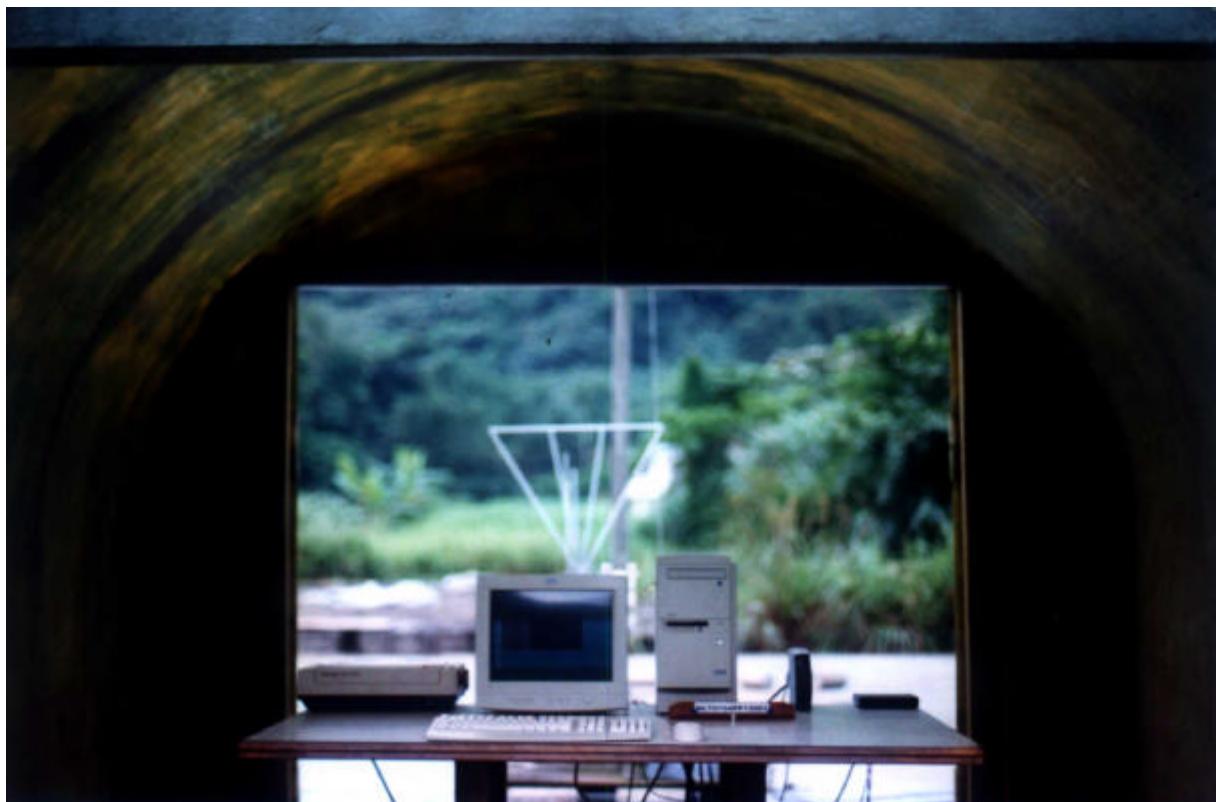
Prior to open-field testing, the EUT was placed in a shielded enclosure and scanned at a close distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration which produced the highest emissions was noted so it could be reproduced later during the open-field tests. This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT. Final radiation measurements were made on a three-meter, open-field test site. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 30 MHz to 1000 MHz using an Hewlett Packard 8591EM Spectrum Analyzer, EMCO Biconical Antenna (Model 3142) for 30-1000MHz. At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization. Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post-detector video filters were used in the test. The spectrum analyzer's 6 dB bandwidth was set to 120 KHz, and the analyzer was operated in the quasi-peak detection mode. The highest emission amplitudes relative to the appropriate limit were measured and recorded in paragraph 3.6.

#### **3.2 Test Equipment List:**

- A. HP 8591EM 9KHz-1.8GHz Spectrum Analyzer (S/N:73412A00230)**
- B. HP 8447D Pre Amplifier (S/N:2944A08954)**
- C. EMCO 3142 Biconilog Antenna (S/N:1184)**
- D. HP 8590A 10KHz-1.5GHz Spectrum Analyzer (S/N:5212A000211)**

### **3.3 Test Configuration:**

#### **3.3.1 Test Configuration(DAZ8815X):**



**Front View of The Test Configuration  
(DAZ8815X)**



**Rear View of The Test Configuration  
(DAZ8815X)**

### **3.3.2 Test Configuration(EC200XY):**



**Front View of The Test Configuration  
(EC200XY)**



**Rear View of The Test Configuration  
(ECM200XY)**

### **3.3.3 Test Configuration(EC290XY):**



**Front View of The Test Configuration  
(EC290XY)**



**Rear View of The Test Configuration  
(ECM290XY)**

### **3.4 Test condition:**

**EUT tested in accordance with the specifications given by the manufacturer , and exercised in the most unfavorable manner.**

### **3.5 Radiated Emissions Limits:**

<i>Frequency range (MHz)</i>	<i>Peak(dBuV)</i>
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54

### 3.6 Measurement Data Of Radiated Emissions:

#### 3.6.1 Open Field Radiated Emissions (HORIZONTAL)

**The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following**

Manufacturer : TURBOCOMM TECH. INC.

Model No : DAZ8815X

EUT : DOCSIS Cable Modem

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
67.41	32.15	1.5	300	40	-7.85
71.37	33.98	2	210	40	-6.02
125.87	34.83	1.5	150	43.5	-8.67
176.10	32.03	2	360	43.5	-11.47
221.20	37.73	2.5	200	46	-8.27
250.42	40.57	1.8	320	46	-5.43
528.21	42.99	1	360	46	-3.01
598.53	43.65	2	120	46	-2.35
668.90	43.72	2	0	46	-2.28
704.00	43.18	1.5	100	46	-2.82
739.30	42.49	2	360	46	-3.51

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter (30-1000MHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5. Amplitude= Reading Amplitude Amplifier gain+Cable loss  
+Antenna factor

(Auto calculate in spectrum analyzer)

### **3.6.2 Open Field Radiated Emissions (VERTICAL)**

**The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.**

**Manufacturer** : TURBOCOMM TECH. INC..  
**Model No** : DAZ8815X  
**EUT** : DOCSIS Cable Modem

<b>Radiated Emissions (VERTICAL)</b>					
<b>Frequency (MHz)</b>	<b>Amplitude (dBuV/m)</b>	<b>Ant. (m)</b>	<b>Table (Degree)</b>	<b>Limits(Class B) (dBuV/m)</b>	<b>Margin (dB)</b>
67.41	36.45	1.5	210	40	-3.55
71.37	35.23	1	360	40	-4.77
125.87	39.04	1.5	290	43.5	-4.46
176.10	37.52	1	300	43.5	-5.98
221.20	39.99	2.5	120	46	-6.01
250.42	40.16	1.5	270	46	-5.84
528.21	43.67	1	360	46	-2.33
598.53	42.09	2	300	46	-3.91
668.90	43.19	1.5	270	46	-2.81
704.00	42.56	1	170	46	-3.44
739.30	43.07	2	210	46	-2.93

**Notes :**
 1. **Margin= Amplitude - Limits**  
 2. **Distance of Measurement : 3 Meter (30-1000MHz)**  
 3. **Height of table for EUT placed: 0.8 Meter.**  
 4. **ANT= Antenna height.**  
 5. **Amplitude= Reading Amplitude Amplifier gain+Cable loss**  
**+Antenna factor**  
**(Auto calculate in spectrum analyzer)**

### **3.6.3 Open Field Radiated Emissions (HORIZONTAL)**

**The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following**

*Manufacturer* : TURBOCOMM TECH. INC.

*Model No* : EC200XY

*EUT* : DOCSIS Cable Modem

<b>Radiated Emissions (HORIZONTAL)</b>					
<b>Frequency (MHz)</b>	<b>Amplitude (dBuV/m)</b>	<b>Ant. (m)</b>	<b>Table (Degree)</b>	<b>Limits(Class B) (dBuV/m)</b>	<b>Margin (dB)</b>
67.45	32.12	1	300	40	-7.88
78.92	32.76	1.5	270	40	-7.24
112.76	33.15	2	90	43.5	-10.35
176.10	37.89	2.5	210	43.5	-5.61
221.23	34.99	2	10	46	-11.01
250.01	41.78	1.5	360	46	-4.22
528.20	43.53	1.5	270	46	-2.47
598.51	42.41	2	300	46	-3.59
668.90	44.01	2.5	140	46	-1.99
704.00	43.73	1.5	60	46	-2.27
738.30	34.70	1.5	360	46	-8.45

*Notes : 1. Margin= Amplitude - Limits*

*2. Distance of Measurement : 3 Meter (30-1000MHz)*

*3. Height of table for EUT placed: 0.8 Meter.*

*4. ANT= Antenna height.*

*5. Amplitude= Reading Amplitude Amplifier gain+Cable loss  
+Antenna factor*

*(Auto calculate in spectrum analyzer)*

### **3.6.4 Open Field Radiated Emissions (VERTICAL)**

**The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.**

**Manufacturer** : TURBOCOMM TECH. INC..  
**Model No** : EC200XY  
**EUT** : DOCSIS Cable Modem

<b>Radiated Emissions (VERTICAL)</b>					
<b>Frequency (MHz)</b>	<b>Amplitude (dBuV/m)</b>	<b>Ant. (m)</b>	<b>Table (Degree)</b>	<b>Limits(Class B) (dBuV/m)</b>	<b>Margin (dB)</b>
67.45	33.45	1	210	40	-6.55
78.92	34.56	1.5	170	40	-5.44
112.76	36.36	1.5	250	43.5	-7.14
176.10	37.87	2	340	43.5	-5.63
221.23	38.63	1.5	240	46	-7.37
250.01	38.57	2	340	46	-7.43
528.20	42.31	2	230	46	-3.69
598.51	43.74	1	360	46	-2.26
668.90	43.56	2	160	46	-2.44
704.00	43.72	1.5	280	46	-2.28
738.30	44.32	2	300	46	-1.68

**Notes :**
 1. **Margin= Amplitude - Limits**  
 2. **Distance of Measurement : 3 Meter (30-1000MHz)**  
 3. **Height of table for EUT placed: 0.8 Meter.**  
 4. **ANT= Antenna height.**  
 5. **Amplitude= Reading Amplitude Amplifier gain+Cable loss**  
**+Antenna factor**  
**(Auto calculate in spectrum analyzer)**

### 3.6.5 Open Field Radiated Emissions (HORIZONTAL)

**The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following**

Manufacturer : TURBOCOMM TECH. INC.

Model No : EC290XY

EUT : DOCSIS Cable Modem

Radiated Emissions (HORIZONTAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
67.29	30.76	1.5	20	40	-9.24
78.19	31.09	1	270	40	-8.91
112.35	36.45	2	100	43.5	-7.05
176.10	35.12	1.5	360	43.5	-8.38
211.20	35.87	2.5	270	43.5	-7.63
249.97	36.43	1	350	46	-9.57
374.93	37.26	1.5	170	46	-8.74
749.92	44.45	2	300	46	-1.55
767.85	43.19	1.5	360	46	-2.81
775.00	42.93	2	270	46	-3.07
815.95	42.73	1.5	360	46	-3.27

Notes : 1. Margin= Amplitude - Limits

2. Distance of Measurement : 3 Meter (30-1000MHz)

3. Height of table for EUT placed: 0.8 Meter.

4. ANT= Antenna height.

5. Amplitude= Reading Amplitude Amplifier gain+Cable loss  
+Antenna factor

(Auto calculate in spectrum analyzer)

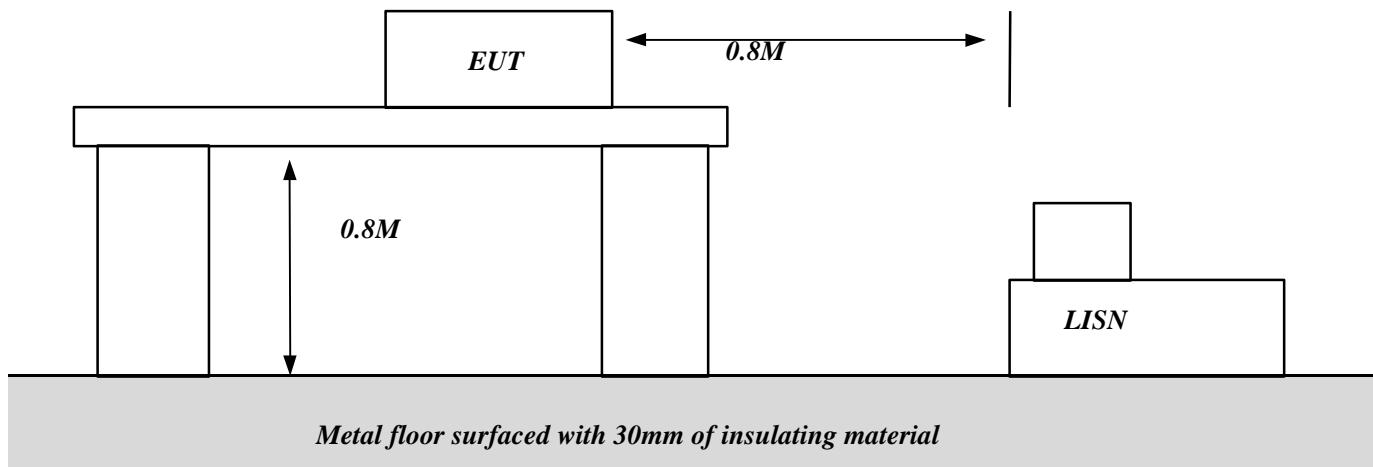
### 3.6.6 Open Field Radiated Emissions (VERTICAL)

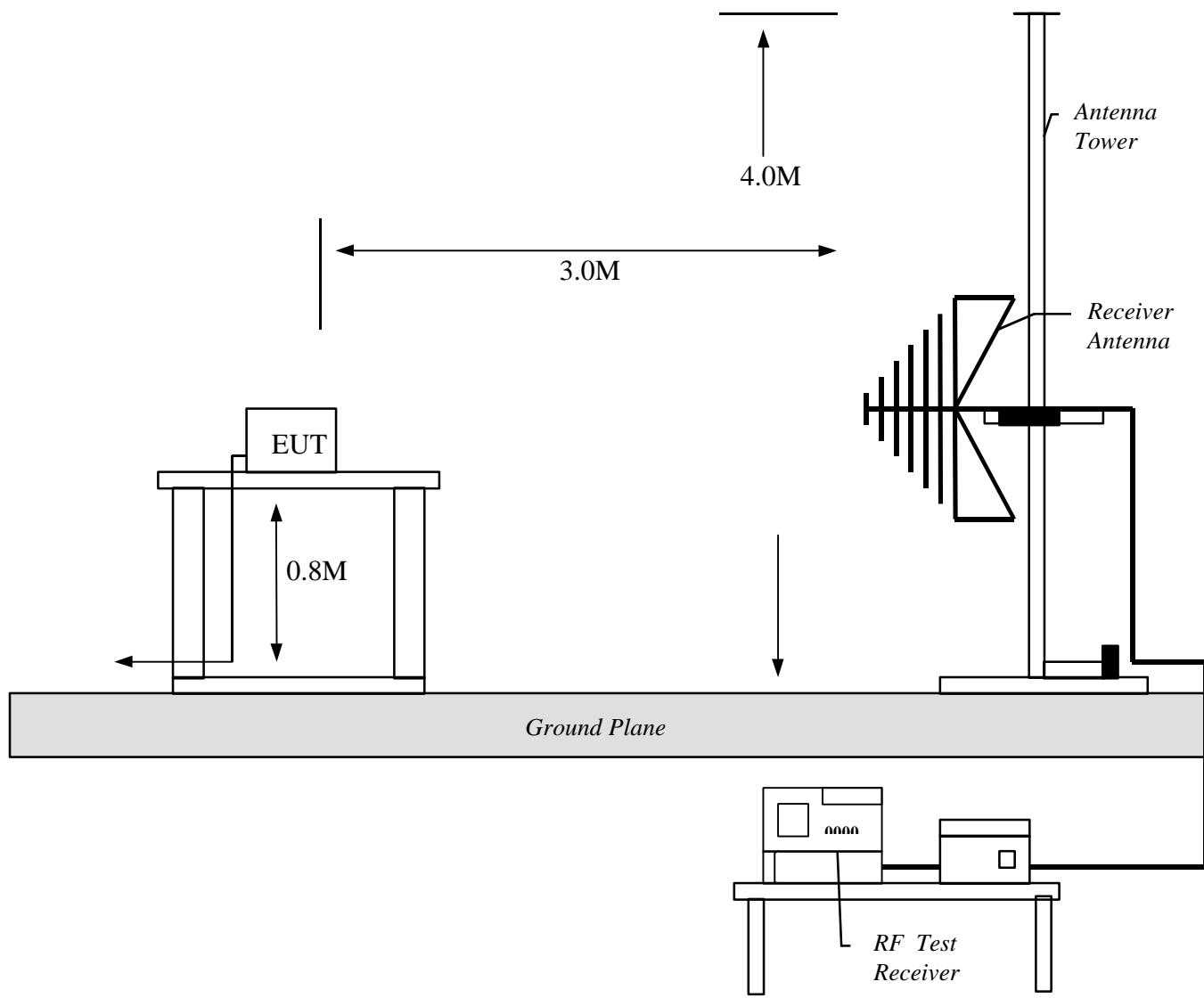
**The highest peak values of radiated emissions from the EUT at various antenna heights, antenna polarization, EUT orientation , etc. are recorded on the following.**

Manufacturer : TURBOCOMM TECH. INC..  
 Model No : EC290XY  
 EUT : DOCSIS Cable Modem

Radiated Emissions (VERTICAL)					
Frequency (MHz)	Amplitude (dBuV/m)	Ant. (m)	Table (Degree)	Limits(Class B) (dBuV/m)	Margin (dB)
67.29	35.72	1	300	40	-4.28
78.19	32.56	1.5	200	40	-7.44
112.35	35.98	2.5	180	43.5	-7.52
176.10	39.99	1.5	210	43.5	-3.51
211.20	35.76	1	100	43.5	-7.74
249.97	39.65	1	360	46	-6.35
374.93	35.19	2	240	46	-10.81
749.92	44.87	1	300	46	-1.13
767.85	43.32	1	360	46	-2.68
775.00	43.93	1.5	90	46	-2.07
815.95	41.12	2	230	46	-4.88

Notes : 1. Margin= Amplitude - Limits  
 2. Distance of Measurement : 3 Meter (30-1000MHz)  
 3. Height of table for EUT placed: 0.8 Meter.  
 4. ANT= Antenna height.  
 5. Amplitude= Reading Amplitude Amplifier gain+Cable loss  
     +Antenna factor  
 (Auto calculate in spectrum analyzer)

**Appendix I- EUT Test SETUP****MEASUREMENT OF POWER LINE CONDUCTED RFI VOLTAGE**

**Appendix I- EUT Test SETUP****MEASUREMENT OF RADIATED EMISSION**

## **Appendix II- Model List**

<b>Trade Name</b>	<b>Model No.</b>
TBC, Terayon, Sagem, Accton, Alcatel, Bosch, Doro, Kathrein, ETHome, REC, Eastern Multimedia Group, Gigamedia, Turbocomm, Turbocom, Turbonet, Castletech, Castlenet, Toshiba, Hoshin, Compaq, IBM, Dell, Mitac, FIC, Tatung, Acer, Apple, PB (Packard Bell), HP, GW2000, NEC, Panasonic, Philips, Sony, Fujitsu, Hitachi, Seimens, Nokia, Genius, Zenith, Aegis, D-Link, Best Data, Creative, Paradise, PureData, COM21, Netgear, Zoom, NDC SOHOWare, Ericsson SatisFaxtion, Nortel, ADI, Genuine, Lemel, Synnex, Actima, Moka, Leadtek, Winsurf, ROCK, ROCKCABLE, ROBINSON, SEEDNET, Joohong, DX ANTENNA High Speed Surfing	DAZ8815X EC200XY EC290XY X = blank or any character X = blank or any character