#### FCC 47 CFR PART 15 SUBPART C

#### **TEST REPORT**

For

**Terminal** 

**Model: 8500** 

Trade Name: CipherLAB

Issued to

Cipherlab Co., Ltd. 12F, 333 Dunhua S. Rd., Sec. 2, Taipei 106, Taiwan R.O.C.

Issued by



Compliance Certification Services Inc.
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Date of Issue: July 16, 2007

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## 1. TEST RESULT CERTIFICATION

**Applicant:** Cipherlab Co., Ltd.

12F, 333 Dunhua S. Rd., Sec. 2,

Taipei 106, Taiwan R.O.C.

**Equipment Under Test:** Terminal

Trade Name: CipherLAB

**Model:** 8500

**Date of Test:** July  $9 \sim 11,2007$ 

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
FCC 47 CFR Part 15 Subpart C	No non-compliance noted				

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. 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: 2003 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Reviewed by:

S.C. Wang

**Executive Vice President** 

Compliance Certification Services Inc.

Miller Lee

Deputy Manager of Linkou Laboratory

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# 2. EUT DESCRIPTION

Product	Terminal
Trade Name	CipherLAB
Model Number	8500
<b>Model Difference</b>	N/A
Power Supply	LEADER ELECTRONICS INC. / NU40-2060330-13 I/P: 100-240V, 1.2A, 50-60Hz O/P: 6.0V, 3.3A
Frequency Range	13.56MHz
<b>Modulation Technique</b>	ASK
Antenna Specification	Winding wire Antenna / Gain: -31.2 dBi

#### Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>Q3N-85002</u> filing to comply with Section 15.227 of the FCC Part 15, Subpart C Rules.

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#### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.225.

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#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

#### 3.3 GENERAL TEST PROCEDURES

#### **Conducted Emissions**

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

#### **Radiated Emissions**

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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#### 3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{2}$
13.36 - 13.41	322 - 335.4		

<sup>&</sup>lt;sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

#### 3.5 DESCRIPTION OF TEST MODES

The EUT (model: 8500) had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z mode), lie-down position (X, Y mode) and docking mode. The worst emission was found in docking mode for powerline conducted emissions, Z mode with docking mode for radiation emissions and the worst case was recorded.

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<sup>&</sup>lt;sup>2</sup> Above 38.6

## 4. INSTRUMENT CALIBRATION

### 4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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### 4.2 MEASUREMENT EQUIPMENT USED

#### **Equipment Used for Emissions Measurement**

**Remark:** Each piece of equipment is scheduled for calibration once a year.

3M Semi Anechoic Chamber									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Spectrum Analyzer	Agilnet	E4411B	MY41440314	N.C.R					
Spectrum Analyzer	R&S	FSP30	100112	09/12/2007					
EMI Test Receiver	R&S	ESVS20	838804/004	01/18/2008					
Pre-Amplifier	Anritsu	MH648A	M18767	08/31/2007					
Pre-Amplifier	MITEQ	AFS42-00102650 -42-10P-42	924206	04/27/2008					
Bilog Antenna	SCHWAZBECK	VULB9163	144	03/31/2008					
Horn Antenna	EMCO	3115	00022250	04/16/2008					
Loop Antenna	EMCO	6502	2356	08/31/2007					
Turn Table	Chance Most	CM-T003-1	T807-6	N.C.R					
Antenna Tower	Chance Most	CM-A003-1	A807-6	N.C.R					
Controller	CCS	CC-C-1F	N/A	N.C.R					
RF Switch	ANRITSU	MP59B	M53867	N.C.R					
Site NSA	CCS	N/A	N/A	05/05/2008					
Test S/W LABVIEW (V 6.1)									

**Remark:** The measurement uncertainty is less than +/-2.0065dB (30MHz ~ 1GHz), +/-3.0958dB (Above 1GHz) which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Powerline Conducted Emissions Test Site										
Name of Equipment   Manufacturer   Model   Serial Number   Calibration										
EMI Test Receiver	R&S	ESCS30	845552/030	03/21/2008						
LISN	R&S	ESH2-Z5	843285/010	01/04/2008						
LISN	R&S ESH3-Z5 848773/014 10/24/2001									
Test S/W	LABVIEW (V 6.1)									

**Remark:** The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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### 5. FACILITIES AND ACCREDITATIONS

#### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan Tel: 886-3-324-0332 / Fax: 886-3-324-5235
The sites are constructed in conformance with the requirements of ANSLC63.7. ANSLC63.4 and

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The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

## **5.2 EQUIPMENT**

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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## 5.3 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	EN 55011, EN 55014-1/2, CISPR 11, CISPR 14-1/2, EN 55022, EN 55015, CISPR 22, CISPR 15, AS/NZS 3548, VCCI V3 (2001), CFR 47, FCC Part 15/18, CNS 13783-1, CNS 13439, CNS 13438, CNS 13803, CNS 14115, EN 55024, IEC 801-2, IEC 801-3, IEC 801-4, IEC/EN 61000-3-2, IEC/EN 61000-3-3, IEC/EN 61000-4-2/3/4/5/6/8/11, EN 50081-1/ EN 61000-6-3, EN 50081-2/EN 61000-6-4, EN 50081-2/EN 61000-6-1: 2001	ACCREDITED 0824-01
USA	FCC	3/10 meter Open Area Test Sites (93105, 90471) / 3M Semi Anechoic Chamber (965860) to perform FCC Part 15/18 measurements	93105, 90471 965860
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	VCCI R-2541/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	ELA 124a ELA 124b ELA 124c
Taiwan	TAF	EN 300 328, EN 300 220-1, EN 300 220-2, EN 300 220-3, 47 CFR FCC Part 15 Subpart C, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 14115, CNS 13438, AS/NZS CISPR 22, CNS 13022-1, IEC 61000-4-2/3/4/5/6/8/11, CNS 13022-2/3	Testing Laboratory 0363
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	3/10 meter Open Area Test Sites (IC 3991-3, IC 3991-4) / 3M Semi Anechoic Chamber (IC 6106) to perform RSS 212 Issue 1	Canada IC 3991-3 IC 3991-4 IC 6106

<sup>\*</sup> No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.

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# 6. SETUP OF EQUIPMENT UNDER TEST

### **6.1 SETUP CONFIGURATION OF EUT**

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

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## **6.2 SUPPORT EQUIPMENT**

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Cradle	CipherLAB	8500 Cradle	N/A	N/A	N/A	N/A

#### Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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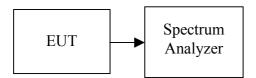
# 7. FCC PART 15.225 REQUIREMENTS

### 7.1 20 DB BANDWIDTH

### **LIMIT**

None; for reporting purposes only.

#### **Test Configuration**



### **TEST PROCEDURE**

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
- 4. Mark the peak frequency and 20dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

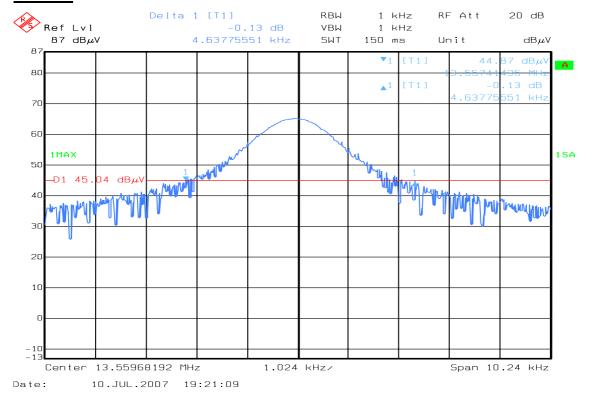
#### **TEST RESULTS**

No non-compliance noted

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## **Test Plot**



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#### 7.2 RADIATED EMISSIONS

#### LIMIT

According to §15.225,

(a) The field strength of any emissions within the band 13.553 – 13.567 MHz shall not exceed 15,848 microvolts / meter at 30 meters.

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- (b) Within the bands 13.410 13.553 MHz and 13.567 -13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts / meter at 30 meters.
- (c) Within the bands 13.110 13.410 MHz and 13.710 14.010 MHz the field strength of any emissions shall not exceed 106 microvolts / meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110 14.010 MHz and shall not exceed the general radiated emission limits in §15.209.

According to §15.225(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

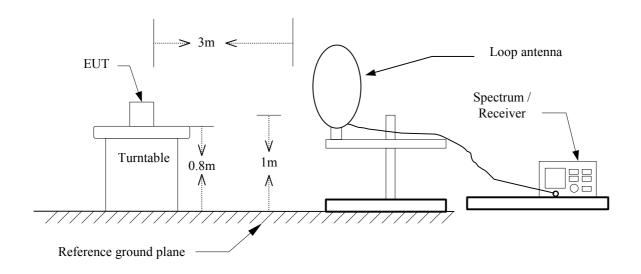
	<u> </u>	_
Frequency (MHz)	Field Strength (μV/m at meter)	Measurement Distance (meter)
0.009 - 0.490	2400 / F (kHz)	300
0.490 - 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 - 88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

<sup>\*\*</sup> Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

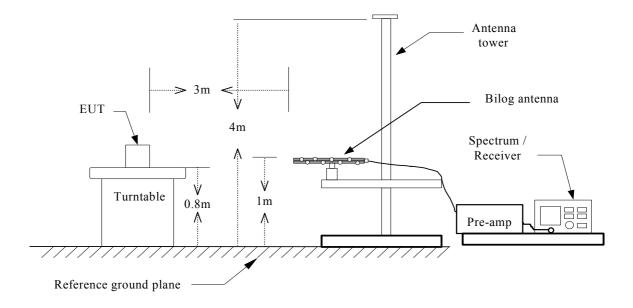
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## **Test Configuration**

### 9kHz ~ 30MHz



### **30MHz** ~ **1 GHz**



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## **TEST PROCEDURE**

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

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- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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## **TEST RESULTS**

Operation Mode:TX modeTest Date:July 12, 2007Temperature:26°CTested by:Arno HsiehHumidity:55 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant.Pol. (H/V)	Detector Mode (PK/QP/AVG)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit 3m (dBuV/m)	Margin (dB)
13.56	V	Peak	49.00	12.29	61.29	124.00	-58.71
272.00	V	Peak	22.33	14.67	37.00	46.00	-9.00
330.00	V	Peak	16.79	16.21	33.00	46.00	-13.00
563.00	V	Peak	15.11	20.89	36.00	46.00	-10.00
683.00	V	Peak	17.82	22.18	40.00	46.00	-6.00
741.00	V	Peak	14.77	22.73	37.50	46.00	-8.50
806.00	V	Peak	12.38	23.82	36.20	46.00	-9.80
13.56	Н	Peak	51.26	12.29	63.55	124.00	-56.45
264.00	Н	Peak	26.78	14.52	41.30	46.00	-4.70
272.00	Н	Peak	24.43	14.67	39.10	46.00	-6.90
297.00	Н	Peak	21.42	15.28	36.70	46.00	-9.30
522.00	Н	Peak	13.26	20.04	33.30	46.00	-12.70
579.02	Н	Peak	17.85	21.22	39.07	46.00	-6.93
652.00	Н	Peak	19.37	22.13	41.50	46.00	-4.50

### Remark:

- 1. Measuring frequencies from 9kHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 9kHz to 1000MHz were made with an instrument using peak/quasi-peak/average detector mode.
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Margin (dB) = Result (dBuV/m) Limit (dBuV/m).

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## 7.2.1 FREQUENCY STABILITY

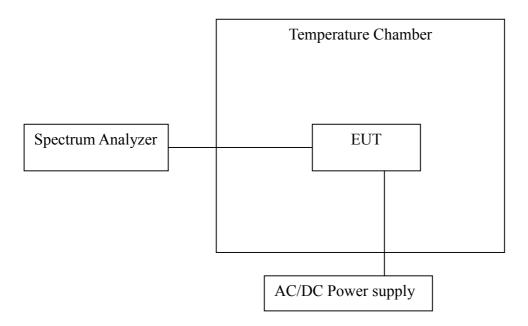
#### **LIMIT**

According to §15.207(e), the frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of –20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

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### **Test Configuration**

Temperature and Voltage Measurement (under normal and extreme test conditions)



## **TEST PROCEDURE**

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the environment into appropriate environment.
- 4. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
- 5. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
- 6. Repeat until all the results are investigated.

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# **TEST RESULTS**

No non-compliance noted

**Temperature Variations** 

Temp.	Voltage (V)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (%)	Limit (±%)	Margin (%)	Result (Pass/Fail)
-20		13.560500	500	0.003687	0.01	-0.006313	Pass
-10		13.560638	638	0.004705	0.01	-0.005295	Pass
0		13.560490	490	0.003614	0.01	-0.006386	Pass
10	3.7	13.560300	300	0.002212	0.01	-0.007788	Pass
20	3.7	13.560540	540	0.003982	0.01	-0.006018	Pass
30		13.560380	380	0.002802	0.01	-0.007198	Pass
40		13.560300	300	0.002212	0.01	-0.007788	Pass
50		13.560420	420	0.003097	0.01	-0.006903	Pass

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**Voltage Variations** 

voicuse variacions								
Temp.	Voltage (V)	Measured Frequency (MHz)	Delta Frequency (Hz)	Tolerance (%)	Limit (±%)	Margin (%)	Result (Pass/Fail)	
20	4.25	13.560420	420	0.003097	0.01	-0.006903	Pass	
	3.7	13.560540	540	0.003982	0.01	-0.006018	Pass	
	3.14	13.560220	220	0.001622	0.01	-0.008378	Pass	

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#### 7.3 POWERLINE CONDUCTED EMISSIONS

#### LIMIT

According to  $\S15.207(a)$ , except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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Frequency Range (MHz)	Limits (dBµV)				
(MILL)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### **Test Procedure**

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

## **TEST RESULTS**

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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Operation Mode: Normal Link Test Date: July 11, 2007

**Temperature:** 26°C **Tested by:** Arno Hsieh

**Humidity:** 54% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.29	29.24	12.75	0.20	29.44	12.95	60.52	50.52	-31.08	-37.57	L1
0.81	12.07	-5.53	0.10	12.17	-5.43	56.00	46.00	-43.83	-51.43	L1
1.27	11.26	-4.80	0.13	11.39	-4.67	56.00	46.00	-44.61	-50.67	L1
4.77	15.17	3.65	0.40	15.57	4.05	56.00	46.00	-40.43	-41.95	L1
18.15	18.14	8.09	1.43	19.57	9.52	60.00	50.00	-40.43	-40.48	L1
30.00	24.84	16.17	1.90	26.74	18.07	60.00	50.00	-33.26	-31.93	L1
0.23	33.33	18.82	0.20	33.53	19.02	62.45	52.45	-28.92	-33.43	L2
0.47	21.09	3.69	0.13	21.22	3.82	56.51	46.51	-35.29	-42.69	L2
1.35	11.93	-0.11	0.14	12.07	0.03	56.00	46.00	-43.93	-45.97	L2
1.87	16.88	5.30	0.19	17.07	5.49	56.00	46.00	-38.93	-40.51	L2
5.55	14.11	4.47	0.35	14.46	4.82	60.00	50.00	-45.54	-45.18	L2
13.57	31.42	7.32	1.01	32.43	8.33	60.00	50.00	-27.57	-41.67	L2

#### Remark:

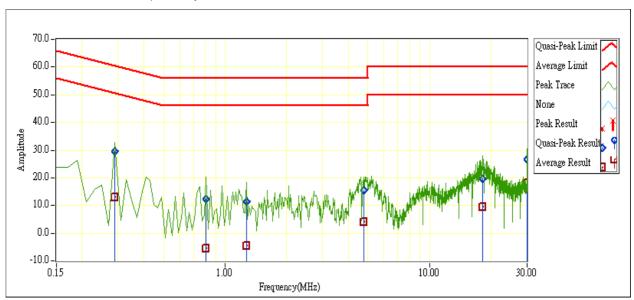
- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9kHz;
- 4. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)

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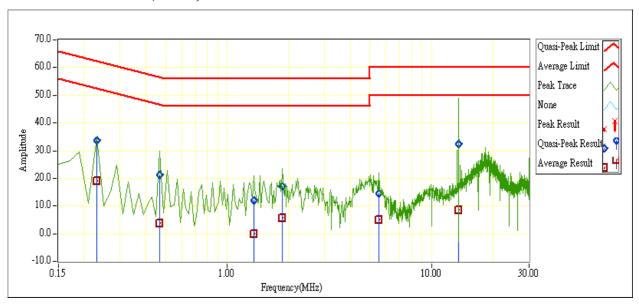
C ID: Q3N-85002 Date of Issue: July 16, 2007

## **Test Plots**

## Conducted emissions (Line 1)



### Conducted emissions (Line 2)



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