

FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT

For

Moretech Electronics Co.,Ltd.

6/F, Budg.9, Shuang Long Shan Industrial District Meixi, Zhuhai

FCC ID: S64MD06

January 23, 2006

This Report Concerns: ☒ Original Report	Equipment Type: Wireless Camera
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Report No.: RSZ06011327	
Test Date: January 17-18, 2006	
Reviewed By: Chris Zeng <i>[Signature]</i>	
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approval, or endorsement by NVLAP, NIST or any agency of the US Government.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The Moretech Electronics Co.,Ltd. 's product, model number: CW3510TX or the "EUT" as referred to in this report is a Wireless Camera. The EUT is measured approximately 8.0 cm L x 3.3 cm W x 3.3 cm H, rated input voltage: DC 5V.

Adapter:

Manufacturer: Wisecomm. Model: KSCFB0500070W1US;
Input: 100-240V~50/60Hz, 0.15A, output: +5.0V--- 0.7A

** The test data gathered are from production sample, serial number: MD2005121401 provided by the manufacturer, we received EUT on 2006-1-13.*

Objective

This Type approval report is prepared on behalf of *Moretech Electronics Co.,Ltd.* in accordance with Part 2, Subpart J, and Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203,15.205,15.207,15.209 and 15.249 rules.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Lab Corp. (ShenZhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Lab Corp. (ShenZhen) to collect radiated and conducted emission measurement data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China.

Test site at Bay Area Compliance Lab Corp. (ShenZhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Lab Corp. (ShenZhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at <http://ts.nist.gov/ts/htdocs/210/214/scopes/2007070.htm>

External I/O Cable

Cable Description	Length (M)	From/Port	To
Adapter Cable	3	EUT	Adapter

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

N/A

Special Accessories

N/A

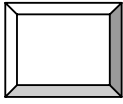
Block Diagram/Schematics

Please refer to the tech.

Equipment Modifications

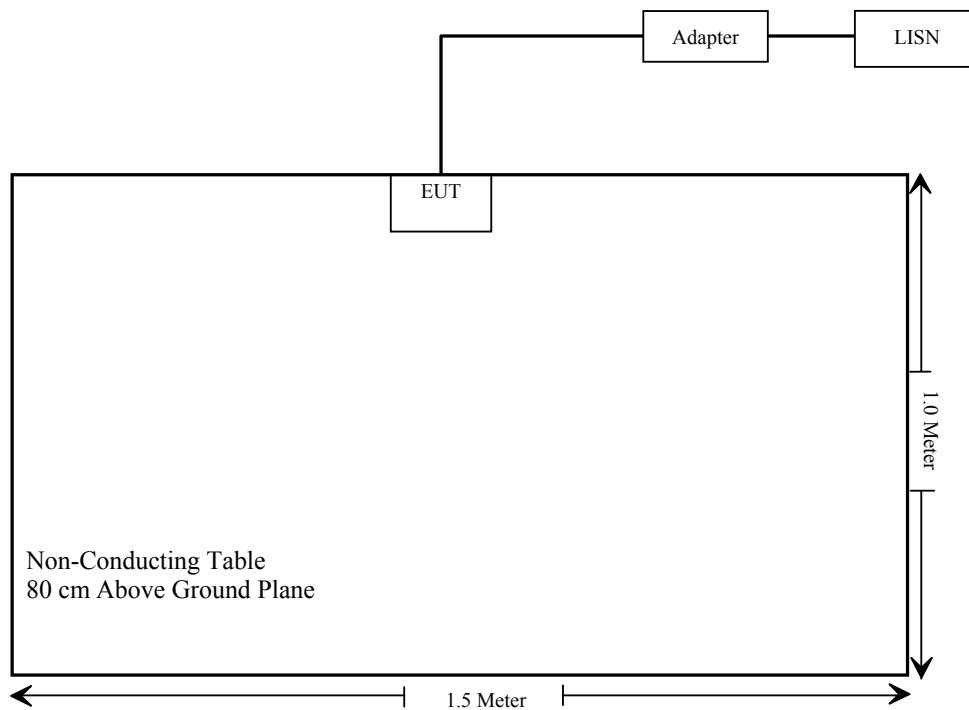
Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

Configuration of Test Setup



EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Bands of Operation	Compliant
§15.207(a)	Conduction Emission	Compliant
§15.209(a), §15.249(a), §15.249(c)	Radiated Emission	Compliant*
§15.249(d)	Out of band emission	Compliant

* Within measurement uncertainty

§15.203 - ANTENNA APPLICATION

Standard Applicable

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a permanent antenna, fulfill the requirement of this section.

Test Result: Pass

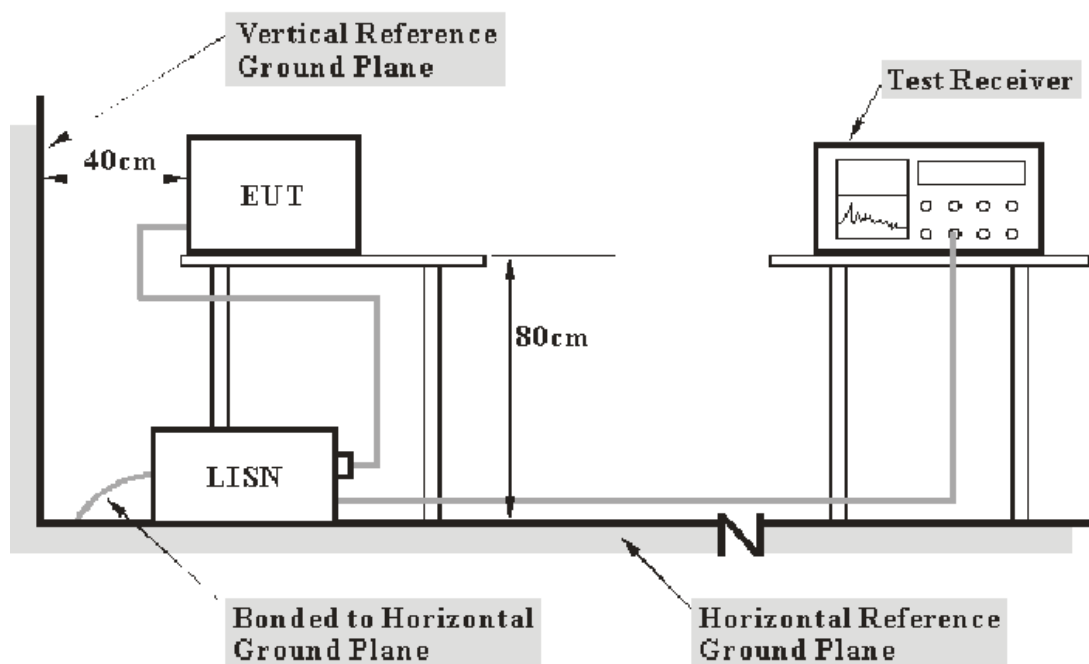
§15.207 - CONDUCTED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 2.4 dB.

EUT 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.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15 .207 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The Adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>IFBW</i>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2005-8-17	2006-8-17
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2005-2-28	2006-2-28

* Com-Power's LISN were used as the supporting equipment.

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

From the audio signal generator connect to the speaker, the distance between the EUT and the speaker was 10 cm.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

Transmitting Channel 1: **-16.01 dB** at **0.174 MHz** in the **Line** conductor mode.
 Transmitting Channel 2: **-15.30 dB** at **0.234 MHz** in the **Neutral** conductor mode.
 Transmitting Channel 4: **-10.57 dB** at **0.178 MHz** in the **Neutral** conductor mode.

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	60%
ATM Pressure:	1000mbar

The testing was performed by Kamn Hu on 2006-1-18.

Test mode: Transmitting Channel 1

LINE CONDUCTED EMISSIONS				FCC PART 15 .207	
Frequency MHz	Amplitude dBμV	Detector QP/AV	Phase Line/Neutral	Limit dBμV	Margin dB
0.174	48.76	QP	Line	64.77	-16.01
0.670	39.65	QP	Neutral	56.00	-16.35
0.754	39.64	QP	Line	56.00	-16.36
0.686	39.31	QP	Line	56.00	-16.69
0.328	42.48	QP	Line	59.50	-17.02
0.262	42.44	QP	Neutral	61.37	-18.93
0.614	37.05	QP	Neutral	56.00	-18.95
0.622	40.32	QP	Line	59.50	-19.18
0.686	26.20	AV	Line	46.00	-19.80
0.490	36.26	QP	Neutral	56.17	-19.91
0.754	26.05	AV	Line	46.00	-19.95
0.622	26.00	AV	Line	46.00	-20.00
0.194	43.51	QP	Line	63.86	-20.35
0.198	43.01	QP	Neutral	63.69	-20.68
0.328	28.65	AV	Line	49.50	-20.85
0.222	41.29	QP	Neutral	62.74	-21.45
0.670	22.38	AV	Neutral	46.00	-23.62
0.614	21.57	AV	Neutral	46.00	-24.43
0.262	24.92	AV	Neutral	51.37	-26.45
0.490	19.61	AV	Neutral	46.17	-26.56
0.194	24.86	AV	Line	53.86	-29.00
0.198	15.91	AV	Neutral	46.00	-30.09
0.174	21.13	AV	Line	54.77	-33.64
0.222	18.48	AV	Neutral	52.74	-34.26

Test mode: Transmitting Channel 2

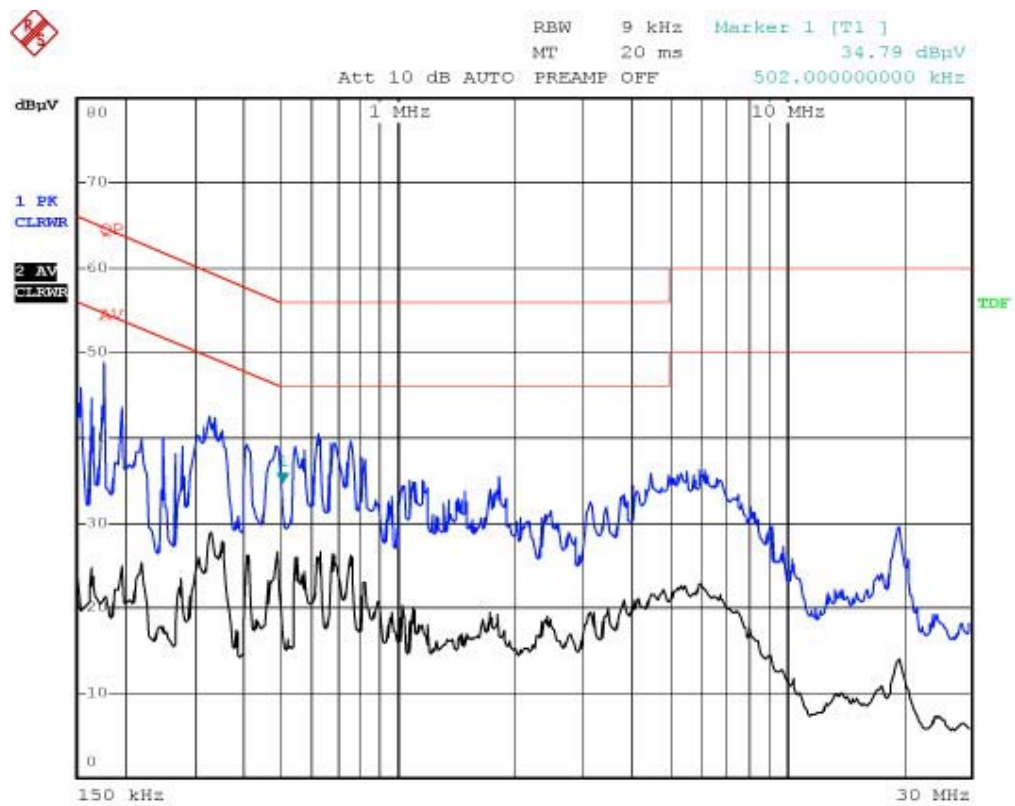
LINE CONDUCTED EMISSIONS				FCC PART 15.207	
Frequency MHz	Amplitude dB μ V	Detector QP/AV	Phase Line/Neutral	Limit dB μ V	Margin dB
0.234	47.01	QP	Neutral	62.31	-15.30
0.314	44.38	QP	Line	59.86	-15.48
0.626	39.44	QP	Line	56.00	-16.56
0.570	38.60	QP	Line	56.00	-17.40
0.666	38.13	QP	Line	56.00	-17.87
0.546	37.92	QP	Line	56.00	-18.08
0.766	37.83	QP	Line	56.00	-18.17
0.554	37.51	QP	Neutral	56.00	-18.49
0.626	26.65	AV	Line	46.00	-19.35
0.318	40.13	QP	Neutral	59.76	-19.63
0.546	25.24	AV	Line	46.00	-20.76
0.626	35.04	QP	Neutral	56.00	-20.96
0.726	35.01	QP	Neutral	56.00	-20.99
0.278	39.82	QP	Neutral	60.88	-21.06
0.766	24.66	AV	Line	46.00	-21.34
0.666	24.28	AV	Line	46.00	-21.72
0.570	23.24	AV	Line	46.00	-22.76
0.318	26.39	AV	Neutral	49.76	-23.37
0.314	26.33	AV	Line	49.86	-23.53
0.626	20.36	AV	Neutral	46.00	-25.64
0.554	20.03	AV	Neutral	46.00	-25.97
0.726	19.11	AV	Neutral	46.00	-26.89
0.234	17.94	AV	Neutral	46.00	-28.06
0.278	22.04	AV	Neutral	50.88	-28.84

Test mode: Transmitting Channel 4

LINE CONDUCTED EMISSIONS				FCC PART 15 .207	
Frequency MHz	Amplitude dB μ V	Detector QP/AV	Phase Line/Neutral	Limit dB μ V	Margin dB
0.178	54.01	QP	Neutral	64.58	-10.57
0.310	47.13	QP	Neutral	59.97	-12.84
0.198	49.71	QP	Neutral	63.69	-13.98
0.178	48.93	QP	Line	64.58	-15.65
0.310	45.96	QP	Line	61.63	-15.67
0.254	44.73	QP	Neutral	61.63	-16.90
0.206	44.07	QP	Line	63.37	-19.30
0.542	35.81	QP	Neutral	56.00	-20.19
0.254	41.38	QP	Line	61.63	-20.25
0.354	39.64	QP	Line	59.97	-20.33
0.310	29.59	AV	Line	49.97	-20.38
0.670	38.45	QP	Line	58.87	-20.42
0.490	35.68	QP	Neutral	56.17	-20.49
0.354	26.92	AV	Line	48.87	-21.95
0.178	23.61	AV	Neutral	46.00	-22.39
0.670	23.12	AV	Line	46.00	-22.88
0.310	25.92	AV	Neutral	49.97	-24.05
0.542	20.83	AV	Neutral	46.00	-25.17
0.490	19.47	AV	Neutral	46.17	-26.70
0.178	25.74	AV	Line	54.58	-28.84
0.254	18.21	AV	Neutral	51.63	-33.42
0.254	17.68	AV	Line	51.63	-33.95
0.206	18.86	AV	Line	53.37	-34.51
0.198	18.64	AV	Neutral	53.69	-35.05

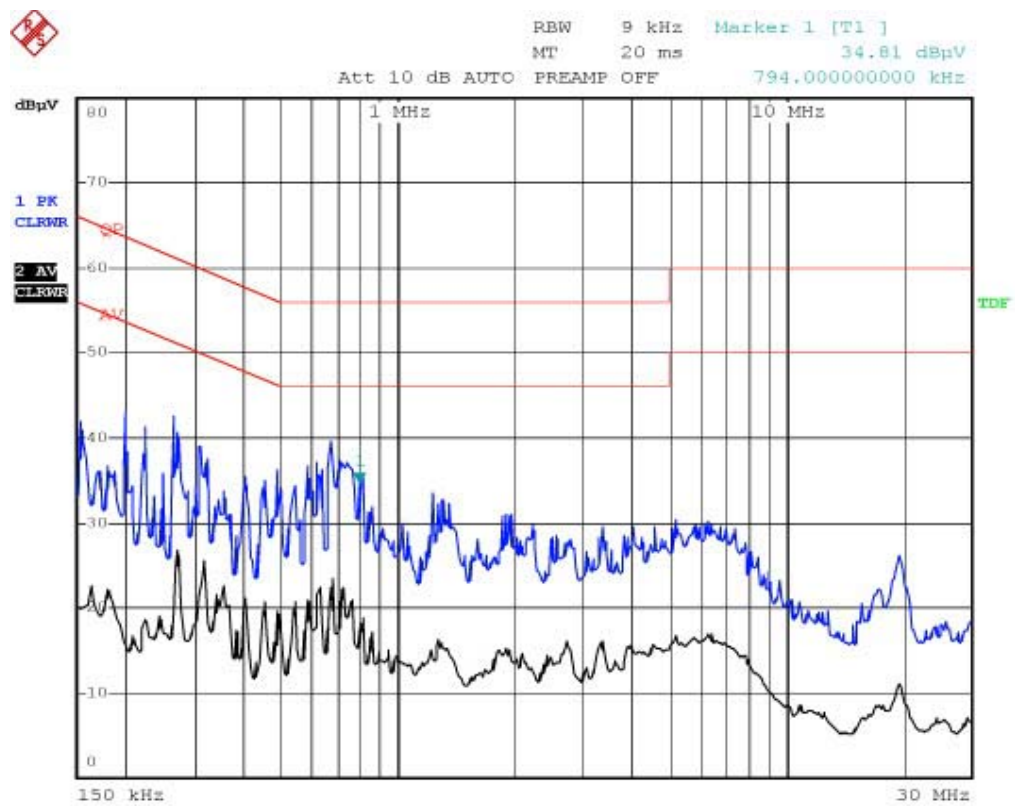
Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.



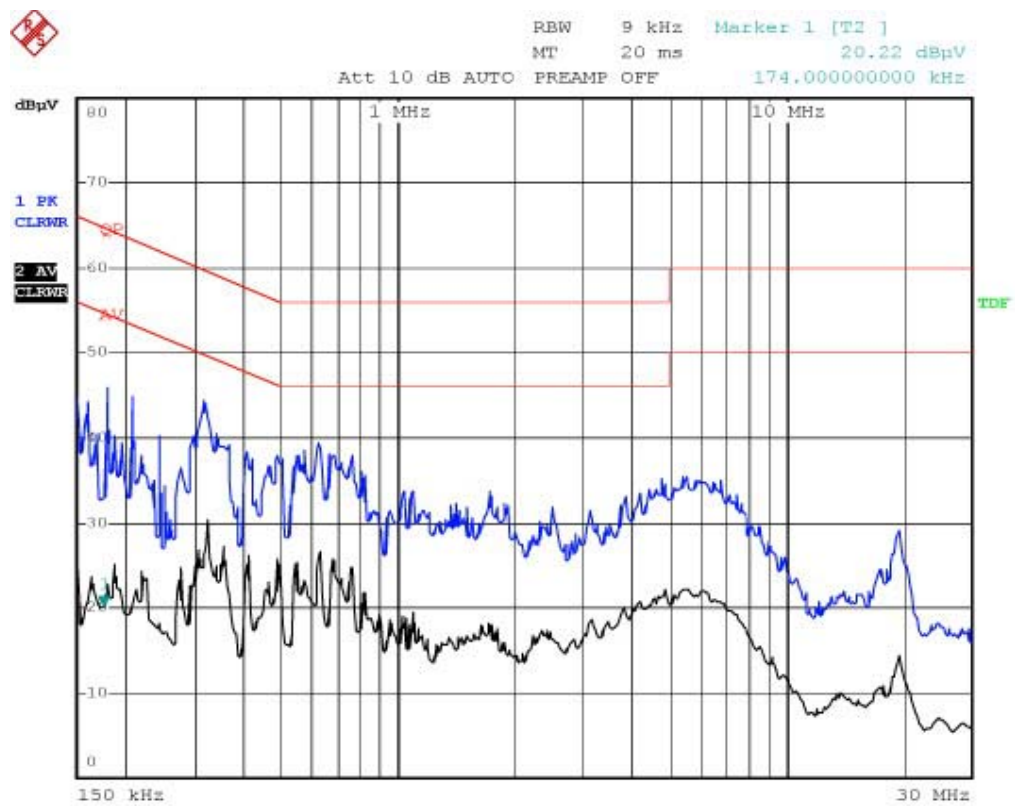
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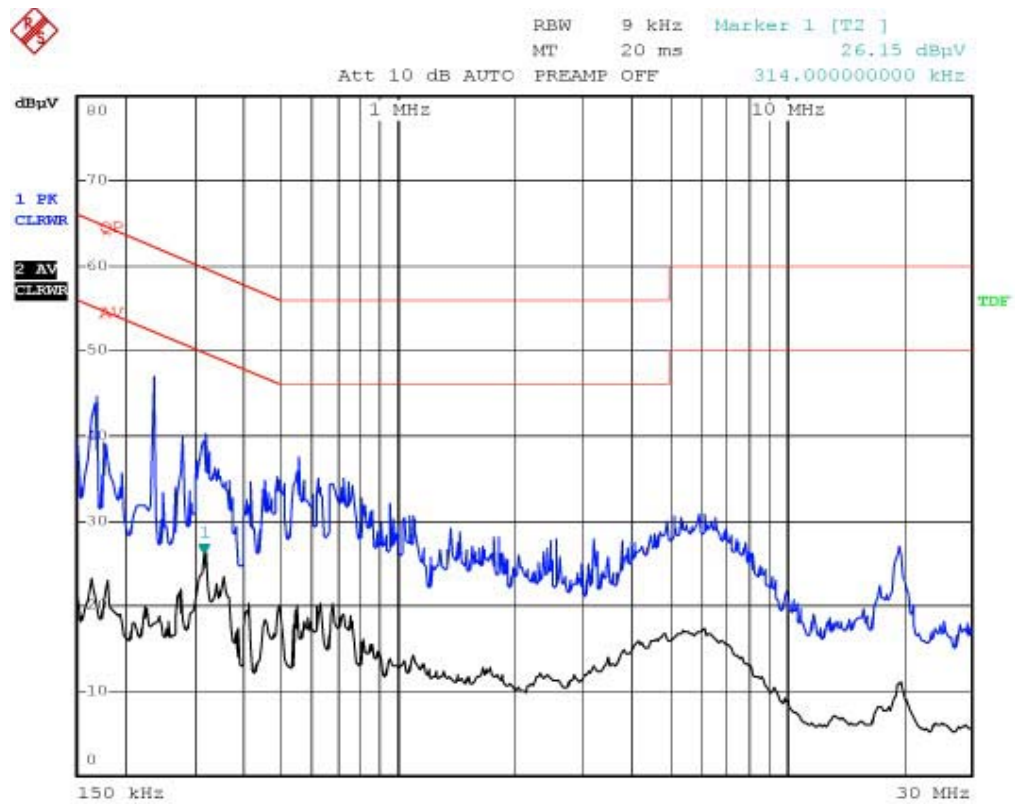
MORETECH CW3510TX 120V60HZ CH1 N

Date: 18.JAN.2006 15:19:49



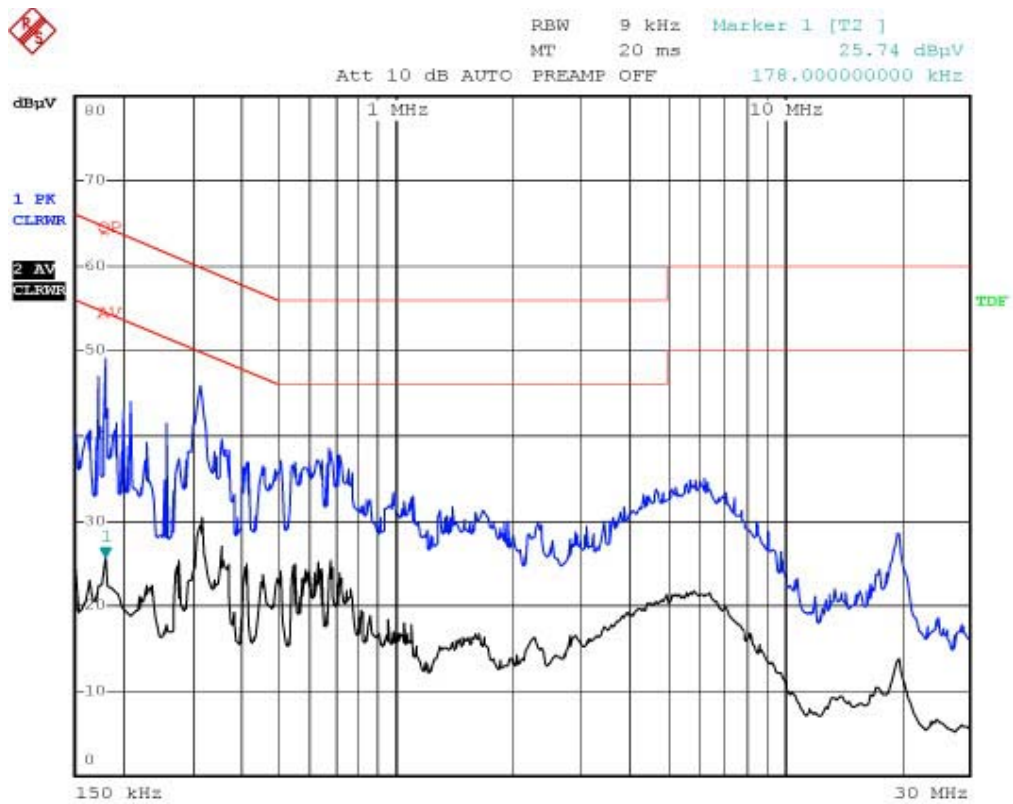
MORETECH CW3510TX 120V60HZ CH2 L

Date: 18.JAN.2006 15:35:03



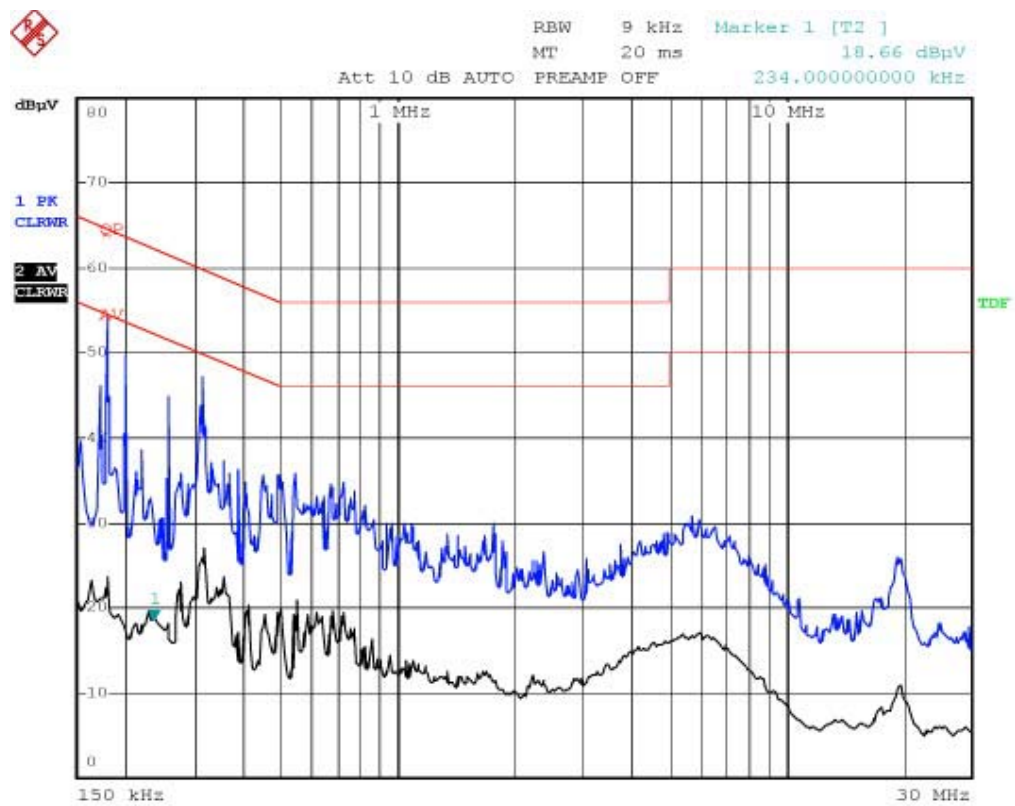
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Date: 18.JAN.2006 15:42:08



MORETECH CW3510TX 120V60HZ CH4 L

Date: 18.JAN.2006 15:56:39



MORETECH CW3510TX 120V60HZ CH4 N

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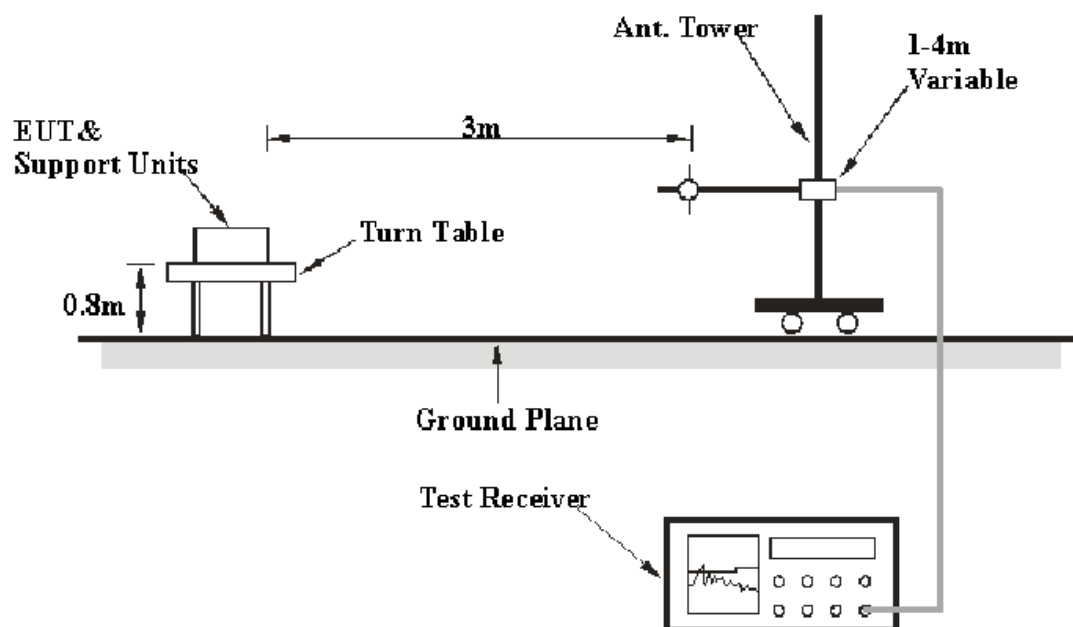
§15.205 §15.209(a) §15.249(a) - RADIATED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Lab Corp. (ShenZhen) is ± 4.0 dB.

EUT Setup



The radiated emission tests were performed in the 3-meter Chamber B, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 and FCC 15.249 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The Adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25000 MHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>
30 – 1000 MHz	100 kHz	300 kHz
1000 MHz – 25000 MHz	1MHz	3 MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17
HP	Amplifier	HP8447E	1937A01046	2005-8-17	2006-8-17
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2005-4-28	2006-4-28
HP	Spectrum analyzer	8593A	2919A00242	2005-2-28	2006-2-28
HP	Preamplifier	8449B	3008A00277	2005-8-17	2006-8-17
SUNOL SCIENCES	Horn Antenna	DRH-118	A052604	2005-7-20	2006-7-20

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the Adapter power cords were connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode.

From the audio generator connect to the speaker, the distance between the EUT and the speaker was 10 cm.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Standard Limit}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.249, with the worst margin reading of:

30-1000MHz: **-5.13 dB** at 32.86 MHz in the **Horizontal** polarization.
 1-25 GHz (Low channel): **-2.2 dB** at 4828 MHz in the **Vertical** polarization.
 1-25 GHz (Middle channel): **-5.4 dB** at 4864 MHz in the **Vertical** polarization.
 1-25 GHz (High channel): **-5.8 dB** at 4936 MHz in the **Horizontal** polarization.

Test Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	1000mbar

The testing was performed by Louise Lu on 2006-1-17.

Test mode: Transmitting

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.249	
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB
30 -1000MHz											
170.18	40.59	PK	289	1.0	H	12.30	1.74	26.76	27.87	43.50	-15.63
282.27	36.03	PK	289	1.0	H	13.80	2.58	26.34	26.07	46.00	-19.93
448.83	33.15	PK	60	1.0	H	16.80	3.12	27.24	25.83	46.00	-20.17
130.30	32.21	PK	45	1.2	H	14.50	1.78	27.00	21.49	43.50	-22.01
881.18	34.46	PK	180	1.2	H	22.50	3.97	26.47	34.46	46.00	-11.54
945.33	35.51	PK	45	1.0	H	23.40	3.86	26.96	35.81	46.00	-10.19
32.86	37.42	PK	45	1.0	V	24.10	0.37	27.02	34.87	40.00	-5.13
40.29	42.98	PK	60	1.2	V	14.30	0.23	27.01	30.50	40.00	-9.50
64.98	40.11	PK	35	3.8	V	8.10	0.62	26.91	21.92	40.00	-18.08
171.38	45.00	PK	35	3.8	V	12.30	1.74	26.76	32.28	43.50	-11.22
282.27	36.76	PK	45	1.2	V	13.80	2.58	26.34	26.80	46.00	-19.20
439.47	35.64	PK	90	1.2	V	16.80	3.12	27.36	28.20	46.00	-17.80

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.249		
										Limit	Margin	Comment
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	dBuV/m	dB	
1GHz-25GHz (Low Channel)												
4828	46.2	AV	45	1.0	V	33.8	5.2	33.4	51.8	54	-2.2	harmonic
4828	40.95	AV	60	1.0	H	33.8	5.2	33.4	46.6	54	-7.5	harmonic
4828	58.25	PK	45	1.0	V	33.8	5.2	33.4	63.9	74	-10.2	harmonic
9656	32	AV	60	1.0	V	38	7	34.1	42.9	54	-11.1	harmonic
9656	31.58	AV	60	1.0	H	38	7	34.1	42.5	54	-11.5	harmonic
7242	32.06	AV	180	1.2	V	36.8	6	33.7	41.2	54	-12.8	harmonic
7242	31.36	AV	180	1.2	H	36.8	6	33.7	40.5	54	-13.5	harmonic
4828	53.73	PK	45	1.0	H	33.8	5.2	33.4	59.3	74	-14.7	harmonic
9656	45.95	PK	45	1.2	V	38	7	34.1	56.9	74	-17.2	harmonic
9656	45.4	PK	45	1.2	H	38	7	34.1	56.3	74	-17.7	harmonic
7242	45.19	PK	45	1.2	H	36.8	6	33.7	54.3	74	-19.7	harmonic
7242	45.03	PK	45	1.2	V	36.8	6	33.7	54.1	74	-19.9	harmonic
2414	76.13	AV	180	1.2	V	28.1	3.7	35	72.9	94	-21.1	fundamental
2414	73.86	AV	180	1.2	H	28.1	3.7	35	70.7	94	-23.3	fundamental
2414	80.4	PK	45	1.0	V	28.1	3.7	35	77.2	114	-36.8	fundamental
2414	79.14	PK	45	1.0	H	28.1	3.7	35	75.9	114	-38.1	fundamental

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.249		
										Limit	Margin	Comment
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	dBuV/m	dB	
1GHz-25GHz (Middle Channel)												
4864	43.02	AV	45	1.0	V	33.8	5.2	33.4	48.6	54	-5.4	harmonic
4864	41.95	AV	60	1.0	H	33.8	5.2	33.4	47.6	54	-6.5	harmonic
9728	33.02	AV	60	1.0	H	38	7	34.1	43.9	54	-10.1	harmonic
9728	32.02	AV	60	1.0	V	38	7	34.1	42.9	54	-11.1	harmonic
4864	56.93	PK	45	1.0	V	33.8	5.2	33.4	62.5	74	-11.5	harmonic
4864	54.97	PK	45	1.0	H	33.8	5.2	33.4	60.6	74	-13.4	harmonic
7296	31.28	AV	180	1.2	H	35.8	6.1	33.7	39.5	54	-14.5	harmonic
7296	31.23	AV	180	1.2	V	35.8	6.1	33.7	39.4	54	-14.6	harmonic
9728	46.24	PK	45	1.2	H	38	7	34.1	57.1	74	-16.9	harmonic
9728	45.33	PK	45	1.2	V	38	7	34.1	56.2	74	-17.8	harmonic
7296	45.83	PK	45	1.2	H	35.8	6.1	33.7	54.0	74	-20.0	harmonic
7296	45.65	PK	45	1.2	V	35.8	6.1	33.7	53.9	74	-20.2	harmonic
2432	72.19	AV	180	1.2	V	28.1	3.7	35	69.0	94	-25.0	fundamental
2432	70.06	AV	180	1.2	H	28.1	3.7	35	66.9	94	-27.1	fundamental
2432	79.52	PK	45	1.0	V	28.1	3.7	35	76.3	114	-37.7	fundamental
2432	79.4	PK	45	1.0	H	28.1	3.7	35	76.2	114	-37.8	fundamental

Frequency	Meter Reading	Detector	Direction	Height	Polar	Antenna Loss	Cable loss	Amplifier Gain	Corr. Ampl.	FCC Part 15.249		
MHz	dBuV/m	PK/QP/AV	Degree	Meter	H / V	dB	dB	dB	dBuV/m	Limit dBuV/m	Margin dB	Commend
1GHz-25GHz (High Channel)												
4936	42.61	AV	60	1.0	H	33.8	5.2	33.4	48.2	54	-5.8	harmonic
9872	32.58	AV	60	1.0	H	37.6	7.3	34.1	43.4	54	-10.6	harmonic
9872	32.18	AV	60	1.0	V	37.6	7.3	34.1	43.0	54	-11.0	harmonic
4936	37.09	AV	60	1.0	V	33.8	5.2	33.4	42.7	54	-11.3	harmonic
4936	54.95	PK	45	1.0	H	33.8	5.2	33.4	60.6	74	-13.5	harmonic
7404	32.33	AV	180	1.2	V	35.8	6.1	33.7	40.5	54	-13.5	harmonic
7404	31.28	AV	180	1.2	H	35.8	6.1	33.7	39.5	54	-14.5	harmonic
9872	46.09	PK	45	1.2	H	37.6	7.3	34.1	56.9	74	-17.1	harmonic
9872	45.62	PK	45	1.2	V	37.6	7.3	34.1	56.4	74	-17.6	harmonic
4936	50.18	PK	45	1.0	V	33.8	5.2	33.4	55.8	74	-18.2	harmonic
7404	45.11	PK	45	1.2	H	35.8	6.1	33.7	53.3	74	-20.7	harmonic
7404	45.14	PK	45	1.2	V	35.8	6.1	33.7	53.3	74	-20.7	harmonic
2468	63.58	AV	180	1.2	V	28.1	3.7	35	60.4	94	-33.6	fundamental
2468	62.32	AV	180	1.2	H	28.1	3.7	35	59.1	94	-34.9	fundamental
2468	78.34	PK	45	1.0	H	28.1	3.7	35	75.1	114	-38.9	fundamental
2468	78.28	PK	45	1.0	V	28.1	3.7	35	75.1	114	-38.9	fundamental

§15.249(d) – OUT OF BAND EMISSION

Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2005-8-17	2006-8-17
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2005-8-17	2006-8-17
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2005-4-28	2006-4-28
HP	Amplifier	8447D	2994A09795	2005-8-17	2006-8-17
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2005-8-17	2006-8-17
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2005-4-28	2006-4-28

* **Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

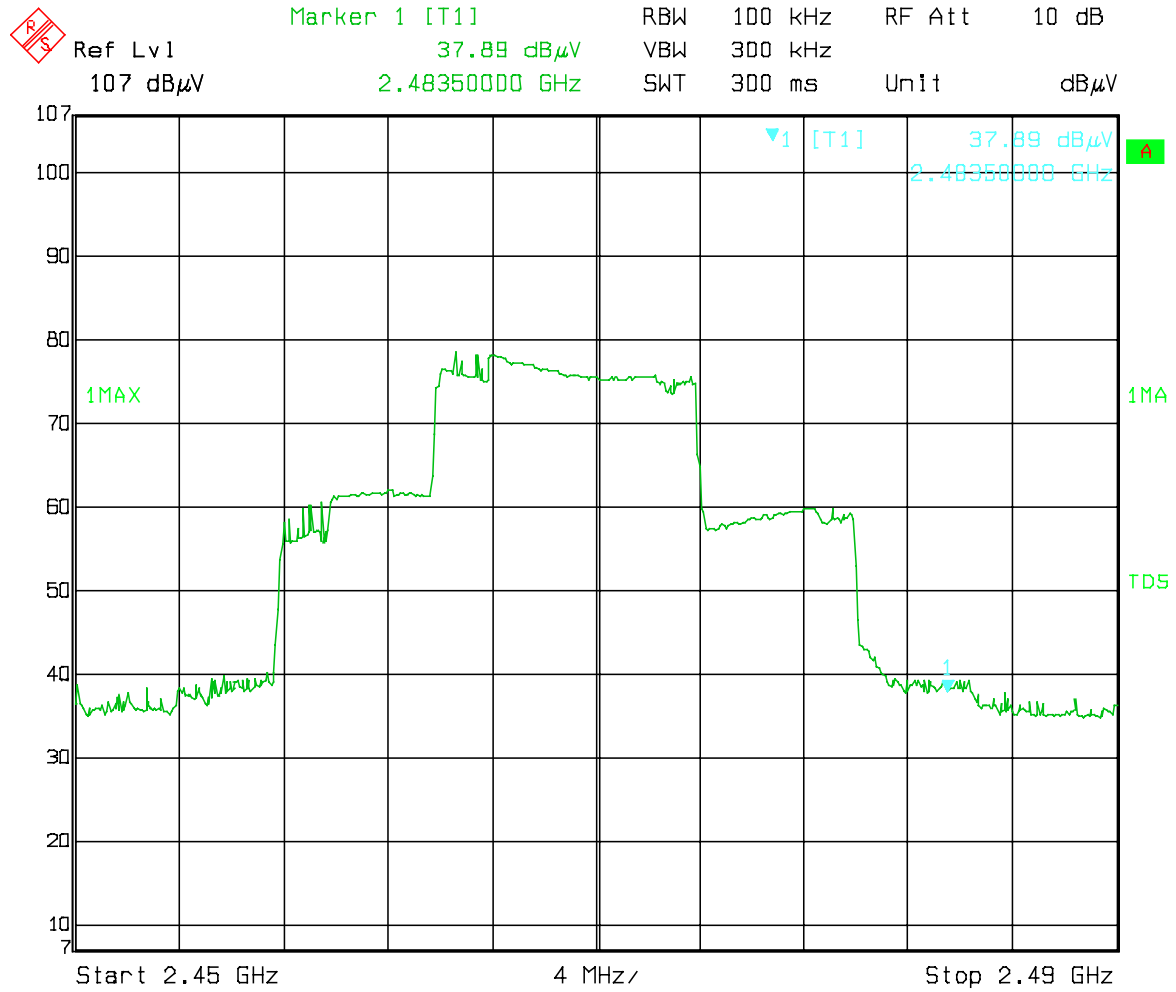
Temperature:	25 °C
Relative Humidity:	55%
ATM Pressure:	1016mbar

The testing was performed by Kamn Hu on 2006-1-17.

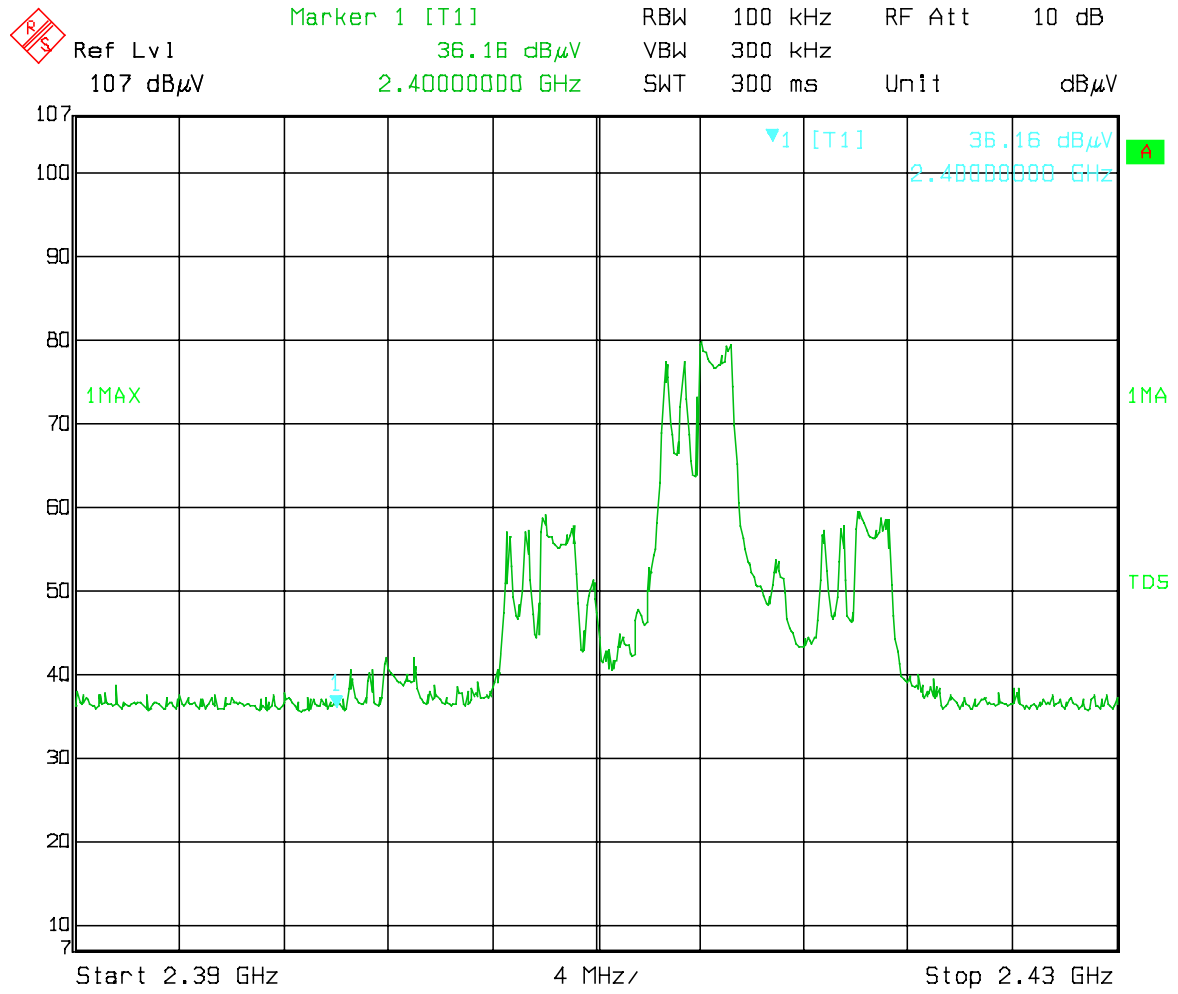
The result has been complied with the 15.249(d), see the following plot:

Frequency MHz	Emission dBμV	Limit dBμV/m
2483.5	37.89	54
2400.0	36.16	54

Test Result: Pass



Date: 17.JAN.2006 16:39:27



Date: 17.JAN.2006 16:44:05