

FCC PART 15.249 EMI MEASUREMENT AND TEST REPORT

For

Shenzhen Well Joint Electronics Co., Ltd.

Xinxulong Industrial Area, Kukeng, Guanlan, Longgang, Shenzhen, China

FCC ID: TWK28163169

December 29, 2005

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: DVD RECEIVER SYSTEM
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Report No.: RSZ05121304	
Test Date: December 15-20, 2005	
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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 Shenzhen Well Joint Electronics Co., Ltd. 's product, model number: AST288A-1 or the "EUT" as referred to in this report is a DVD RECEIVER SYSTEM. The EUT is measured approximately 43 cm L x 32 cm W x 5 cm H, rated input voltage: AC 120 V/60 Hz.

The series products, model AST288A-1/2/3/4/5/6/7/8/9/10 & DHW-508, we select AST288A-1 to test.

** The test data gathered are from production sample, serial number: 0512017 provided by the manufacturer, we received EUT on 2005-11-21.*

Objective

This Type approval report is prepared on behalf of *Shenzhen Well Joint 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>

Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
KONKA	TV	T14FA073	AQX337YY5029056	DoC

SYSTEM TEST CONFIGURATION

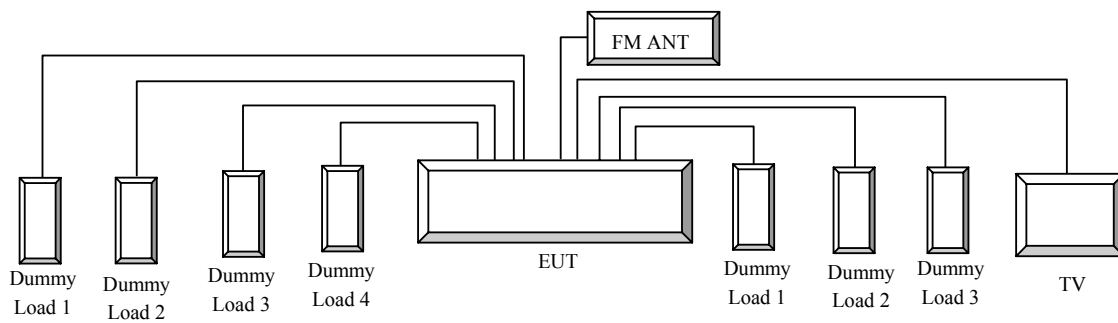
Justification

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

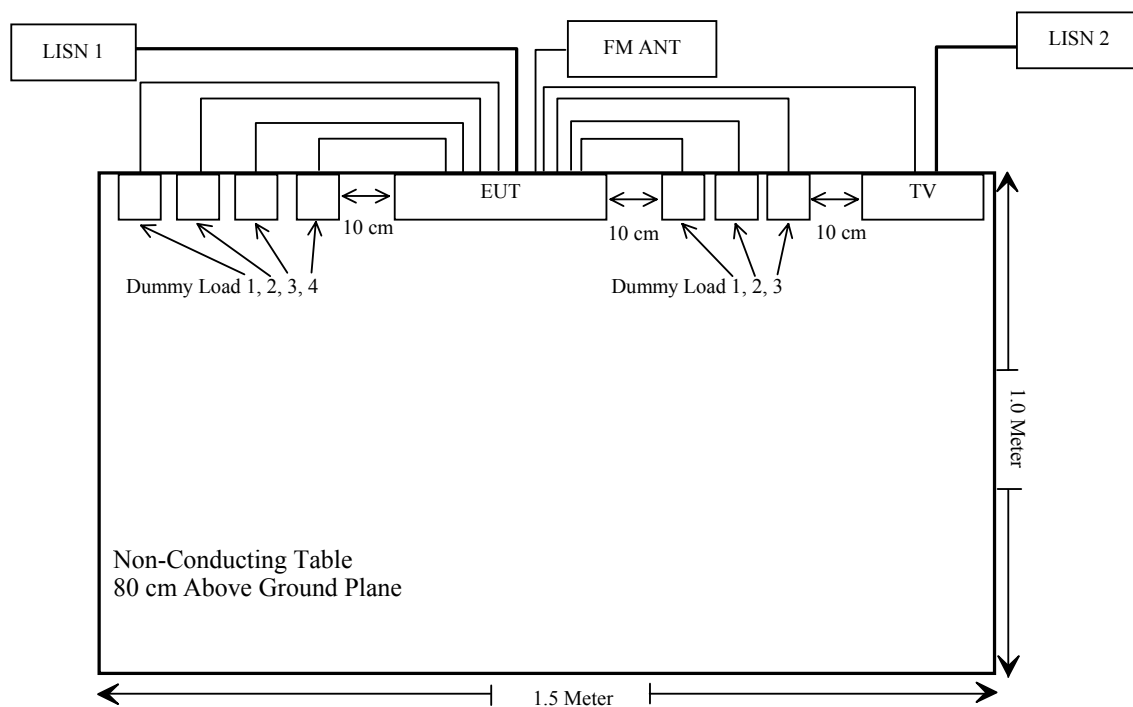
Equipment Modifications

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

Configuration of Test Setup



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

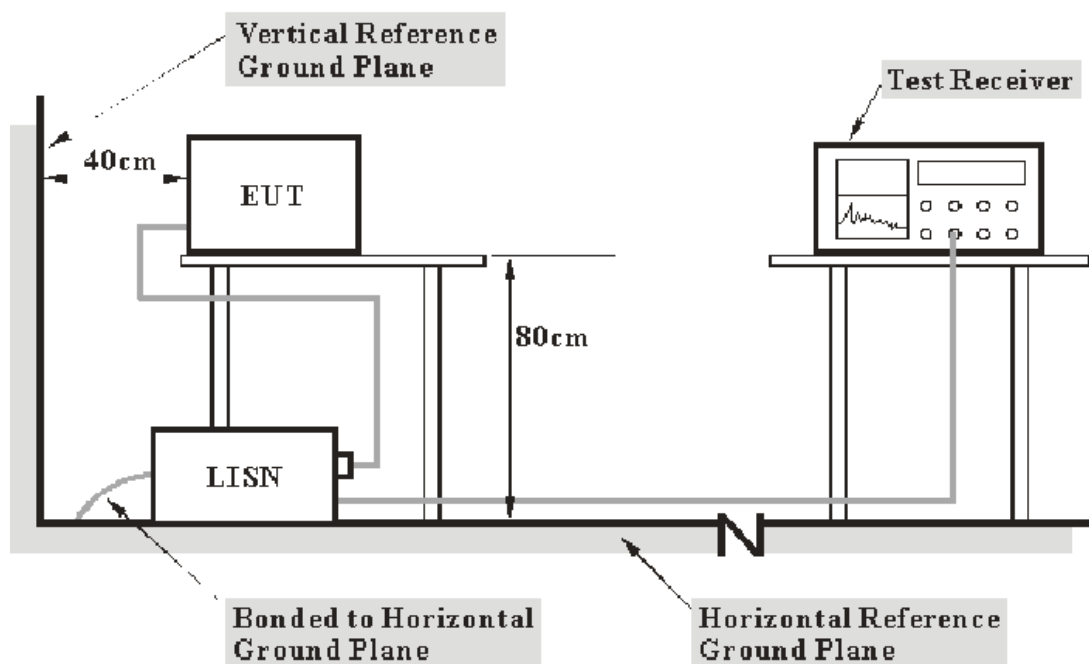
§15.207 - CONDUCTED EMISSION

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.

EMI Test Receiver Setup

The 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	ESCS30	830245/006	2005-1-26	2006-1-26
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 generator connect to the speaker, the distance between the EUT and the microphone 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:

-0.50 dB at 23.815 MHz in the Neutral conductor mode.

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	55%
ATM Pressure:	1002mbar

The testing was performed by Davis Ma on 2005-12-15.

Test mode: Transmitting

LINE CONDUCTED EMISSIONS				FCC PART 15 .207	
Frequency MHz	Amplitude dBμV	Detector QP/AV	Phase Line/Neutral	Limit dBμV	Margin dB
23.815	59.50	QP	Neutral	60.00	-0.50 *
18.405	59.00	QP	Line	60.00	-1.00 *
0.465	44.80	AV	Neutral	46.60	-1.80 *
24.425	57.50	QP	Line	60.00	-2.50
12.000	47.30	AV	Neutral	50.00	-2.70
1.165	42.20	AV	Neutral	46.00	-3.80
0.175	60.80	QP	Line	64.72	-3.92
0.465	52.50	QP	Neutral	56.60	-4.10
0.175	60.10	QP	Neutral	64.72	-4.62
0.350	44.30	AV	Line	48.96	-4.66
0.465	41.50	AV	Line	46.60	-5.10
0.175	49.00	AV	Neutral	54.72	-5.72
0.465	50.80	QP	Line	56.60	-5.80
1.165	49.70	QP	Neutral	56.00	-6.30
0.175	48.30	AV	Line	54.72	-6.42
12.000	52.70	QP	Neutral	60.00	-7.30
0.350	51.50	QP	Line	58.96	-7.46
23.815	42.20	AV	Neutral	50.00	-7.80
18.405	41.30	AV	Line	50.00	-8.70
0.235	43.10	AV	Neutral	52.27	-9.17
0.235	52.80	QP	Neutral	62.27	-9.47
0.235	52.60	QP	Line	62.27	-9.67
24.425	39.20	AV	Line	50.00	-10.80
0.235	40.70	AV	Line	52.27	-11.57

* Within measurement uncertainty

Plot(s) of Test Data

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

Conducted Emission test FCC Part 15

EUT: DVD M/N:AST288A-1
Manuf: WELL JOINT
Op Cond: ~~Normal~~ Transceiving
Operator: Davis
Test Spec: AC 120V/60Hz L
Comment: Temp:25
Humi:56%
Date: 15. Dec 05 18:46

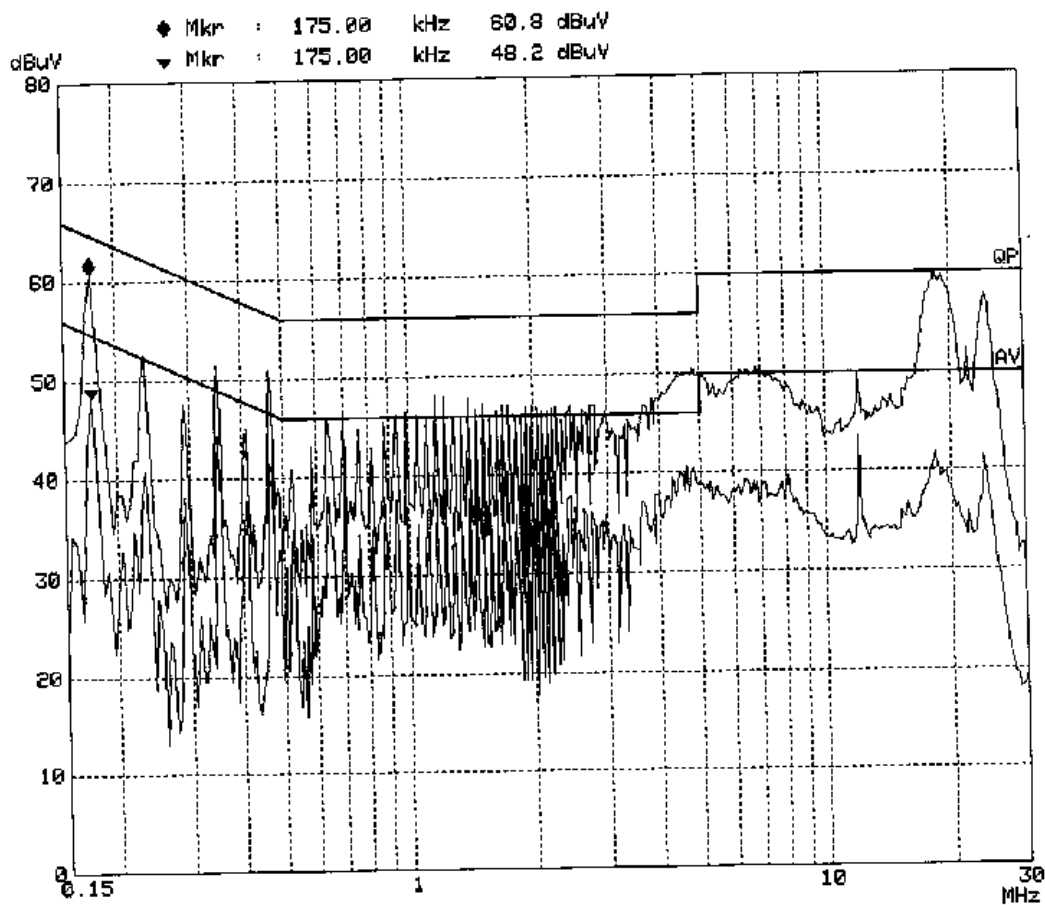
Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO	LN OFF

Transducer No.	Start	Stop	Name
1	9k	30M	FACTOR

Final Measurement: x QP / + AV

Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



Conducted Emission test FCC Part15

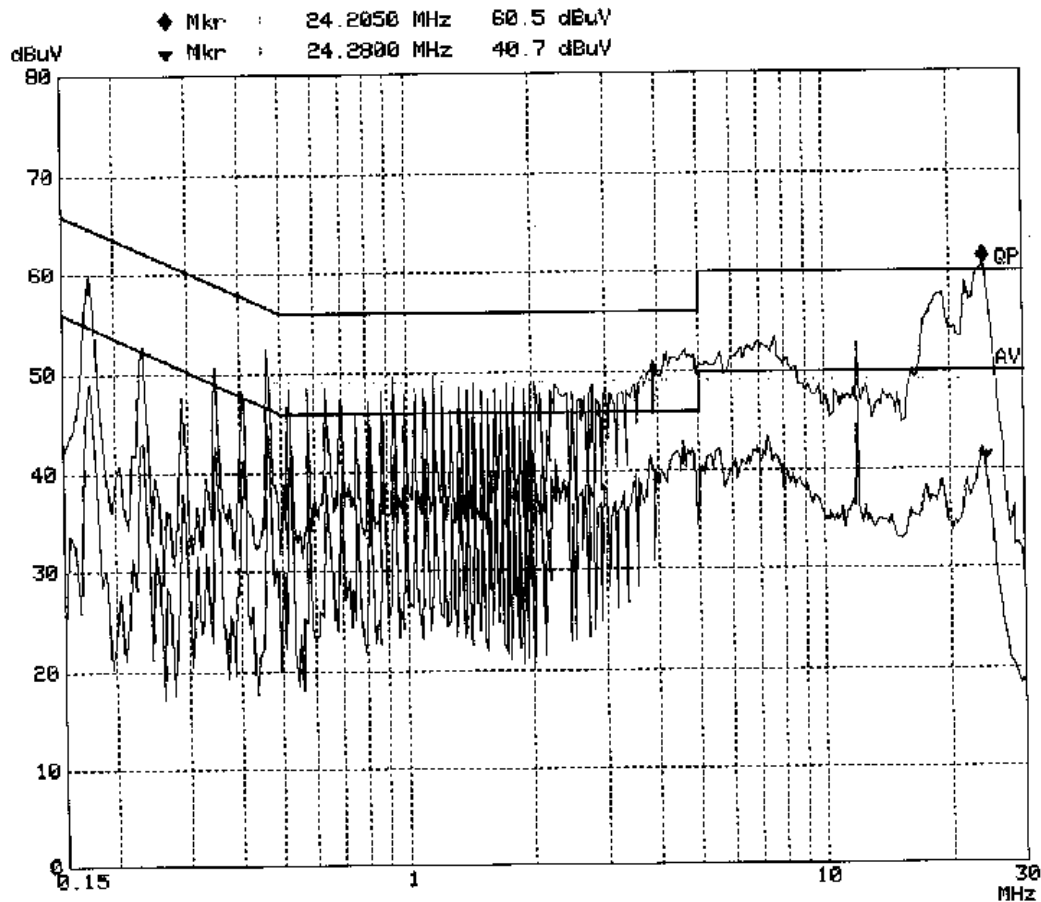
EUT: DVD M/N:AST288A-1
 Manuf: WELL JOINT
 Op Cond: ~~Resopans~~ Trans, M) King.
 Operator: Davis
 Test Spec: AC 120V/60Hz N
 Comment: Temp:25
 Humi:56%
 Date: 15. Dec 05 19:13

Scan Settings (1 Range)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	30M	5k	9k	PK+AV	20ms	AUTO LN	OFF

Transducer No.	Start	Stop	Name
1	9k	30M	FACTOR

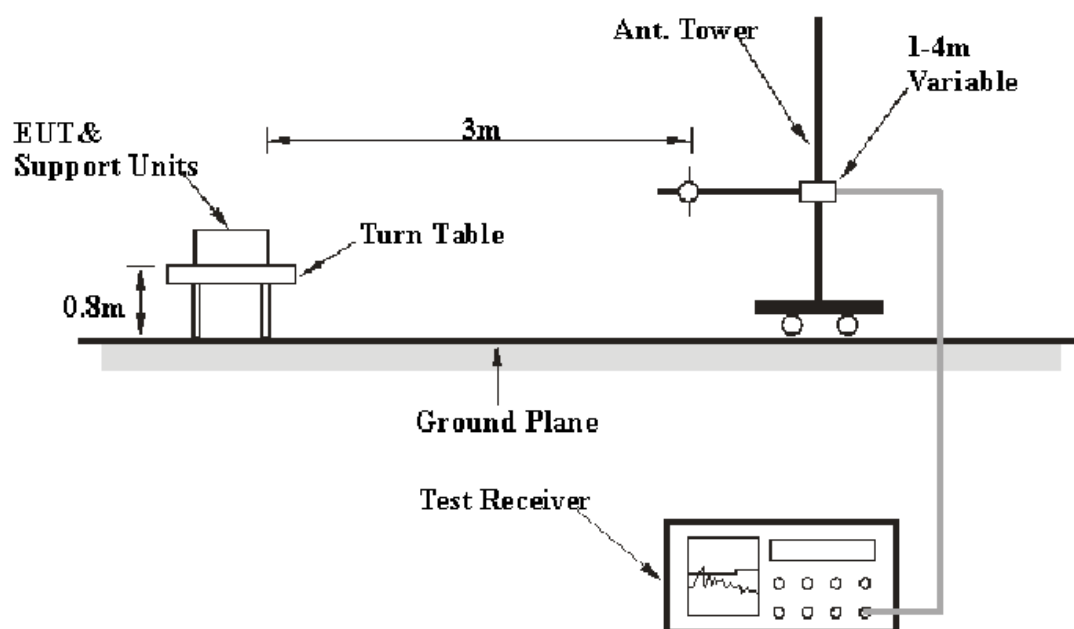
Final Measurement: x QP / + AV
 Meas Time: 1 s
 Subranges: 25
 Acc Margin: 6dB



§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.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25000 MHz.

During the radiated emission test, the 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	100028	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 microphone 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:

1-25 GHz (Low channel): **-4.1 dB** at **9604.100 MHz** in the **Vertical** polarization.
 1-25 GHz (Middle channel): **-2.8 dB** at **9611.300 MHz** in the **Vertical** polarization.
 1-25 GHz (High channel): **-7.4 dB** at **9623.400 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 2005-12-20.

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	Commend
1-25 GHz (Low Channel)												
9604.100	59.67	PK	45	1.2	V	38.0	7.0	34.72	70.0	74	-4.1	PK (Harmonic)
9604.100	39.23	AV	60	1.0	V	38.0	7.0	34.72	49.5	54	-4.5	AV (Harmonic)
9604.100	37.82	AV	60	1.0	H	38.0	7.0	34.72	48.1	54	-5.9	AV (Harmonic)
9604.100	56.86	PK	45	1.2	H	38.0	7.0	34.72	67.1	74	-6.9	PK (Harmonic)
7203.075	37.65	AV	180	1.2	H	36.8	6.0	33.50	47.0	54	-7.1	AV (Harmonic)
7203.075	37.28	AV	180	1.2	V	36.8	6.0	33.50	46.6	54	-7.4	AV (Harmonic)
7203.075	55.51	PK	45	1.2	V	36.8	6.0	33.50	64.8	74	-9.2	PK (Harmonic)
7203.075	54.26	PK	45	1.2	H	36.8	6.0	33.50	63.6	74	-10.4	PK (Harmonic)
4802.050	36.25	AV	60	1.0	V	33.8	5.2	33.00	42.3	54	-11.8	AV (Harmonic)
4802.050	35.24	AV	60	1.0	H	33.8	5.2	33.00	41.2	54	-12.8	AV (Harmonic)
2401.025	83.95	AV	180	1.2	V	28.1	3.7	35.16	80.6	94	-13.4	AV (Fundamental)
2401.025	81.56	AV	180	1.2	H	28.1	3.7	35.16	78.2	94	-15.8	AV (Fundamental)
4802.050	49.79	PK	45	1.0	H	33.8	5.2	33.00	55.8	74	-18.2	PK (Harmonic)
4802.050	48.80	PK	45	1.0	V	33.8	5.2	33.00	54.8	74	-19.2	PK (Harmonic)
2401.025	95.30	PK	45	1.0	V	28.1	3.7	35.16	91.9	114	-22.1	PK (Fundamental)
2401.025	90.80	PK	45	1.0	H	28.1	3.7	35.16	87.4	114	-26.6	PK (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
1-25 GHz (Middle Channel)												
9611.300	40.90	AV	60	1.0	V	38.0	7.0	34.72	51.2	54	-2.8*	AV (Harmonic)
9611.300	60.09	PK	45	1.2	V	38.0	7.0	34.72	70.4	74	-3.6*	PK (Harmonic)
9611.300	59.76	PK	45	1.2	H	38.0	7.0	34.72	70.0	74	-4.0	PK (Harmonic)
9611.300	38.86	AV	60	1.0	H	38.0	7.0	34.72	49.1	54	-4.9	AV (Harmonic)
7208.475	37.52	AV	180	1.2	V	36.8	6.0	33.50	46.8	54	-7.2	AV (Harmonic)
7208.475	36.74	AV	180	1.2	H	36.8	6.0	33.50	46.0	54	-8.0	AV (Harmonic)
7208.475	53.66	PK	45	1.2	V	36.8	6.0	33.50	63.0	74	-11.0	PK (Harmonic)
7208.475	52.39	PK	45	1.2	H	36.8	6.0	33.50	61.7	74	-12.3	PK (Harmonic)
4805.650	35.53	AV	60	1.0	V	33.8	5.2	33.00	41.5	54	-12.5	AV (Harmonic)
4805.650	35.33	AV	60	1.0	H	33.8	5.2	33.00	41.3	54	-12.7	AV (Harmonic)
2402.825	81.14	AV	180	1.2	V	28.1	3.7	35.16	77.8	94	-16.2	AV (Fundamental)
2402.825	80.16	AV	180	1.2	H	28.1	3.7	35.16	76.8	94	-17.2	AV (Fundamental)
4805.650	48.63	PK	45	1.0	V	33.8	5.2	33.00	54.6	74	-19.4	PK (Harmonic)
4805.650	48.54	PK	45	1.0	H	33.8	5.2	33.00	54.5	74	-19.5	PK (Harmonic)
2402.825	91.02	PK	45	1.0	V	28.1	3.7	35.16	87.7	114	-26.3	PK (Fundamental)
2402.825	88.30	PK	45	1.0	H	28.1	3.7	35.16	84.9	114	-29.1	PK (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
1-25 GHz (High Channel)												
9623.400	36.36	AV	60	1.0	H	38.0	7.0	34.72	46.6	54	-7.4	AV (Harmonic)
7217.550	37.25	AV	180	1.2	V	36.8	6.0	33.50	46.6	54	-7.5	AV (Harmonic)
9623.400	36.22	AV	60	1.0	V	38.0	7.0	34.72	46.5	54	-7.5	AV (Harmonic)
7217.550	56.85	PK	45	1.2	V	36.8	6.0	33.50	66.2	74	-7.8	PK (Harmonic)
7217.550	36.71	AV	180	1.2	H	36.8	6.0	33.50	46.0	54	-8.0	AV (Harmonic)
4811.700	37.08	AV	60	1.0	H	33.8	5.2	33.00	43.1	54	-10.9	AV (Harmonic)
9623.400	52.57	PK	45	1.2	V	38.0	7.0	34.72	62.9	74	-11.2	PK (Harmonic)
9623.400	52.06	PK	45	1.2	H	38.0	7.0	34.72	62.3	74	-11.7	PK (Harmonic)
7217.550	52.45	PK	45	1.2	H	36.8	6.0	33.50	61.8	74	-12.3	PK (Harmonic)
4811.700	35.27	AV	60	1.0	V	33.8	5.2	33.00	41.3	54	-12.7	AV (Harmonic)
2405.850	83.84	AV	180	1.2	V	28.1	3.7	35.16	80.5	94	-13.5	AV (Fundamental)
4811.700	52.87	PK	45	1.0	H	33.8	5.2	33.00	58.9	74	-15.1	PK (Harmonic)
2405.850	81.83	AV	180	1.2	H	28.1	3.7	35.16	78.5	94	-15.5	AV (Fundamental)
4811.700	48.82	PK	45	1.0	V	33.8	5.2	33.00	54.8	74	-19.2	PK (Harmonic)
2405.850	93.50	PK	45	1.0	V	28.1	3.7	35.16	90.1	114	-23.9	PK (Fundamental)
2405.850	91.40	PK	45	1.0	H	28.1	3.7	35.16	88.0	114	-26.0	PK (Fundamental)

* Within measurement uncertainty

§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

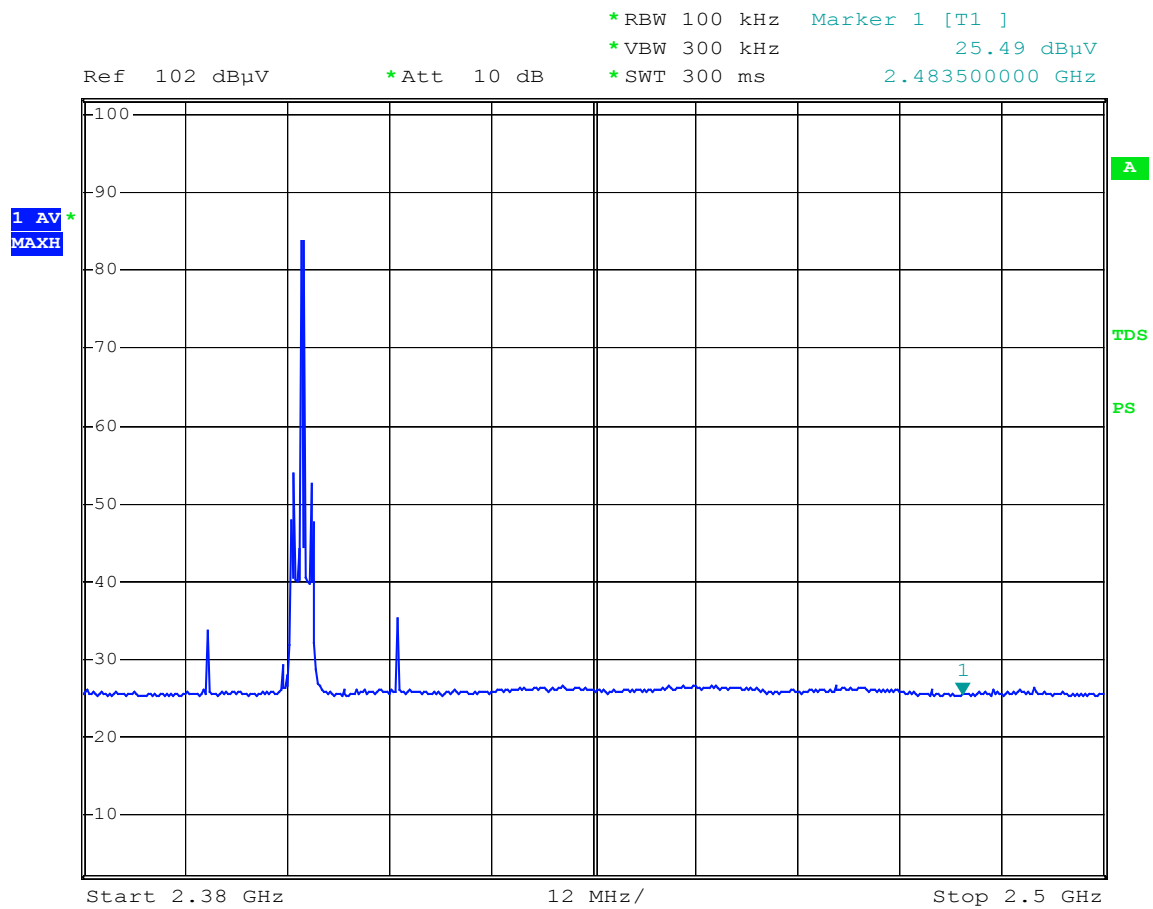
Temperature:	25 °C
Relative Humidity:	55%
ATM Pressure:	1016mbar

The testing was performed by Davis Ma on 2005-12-20.

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

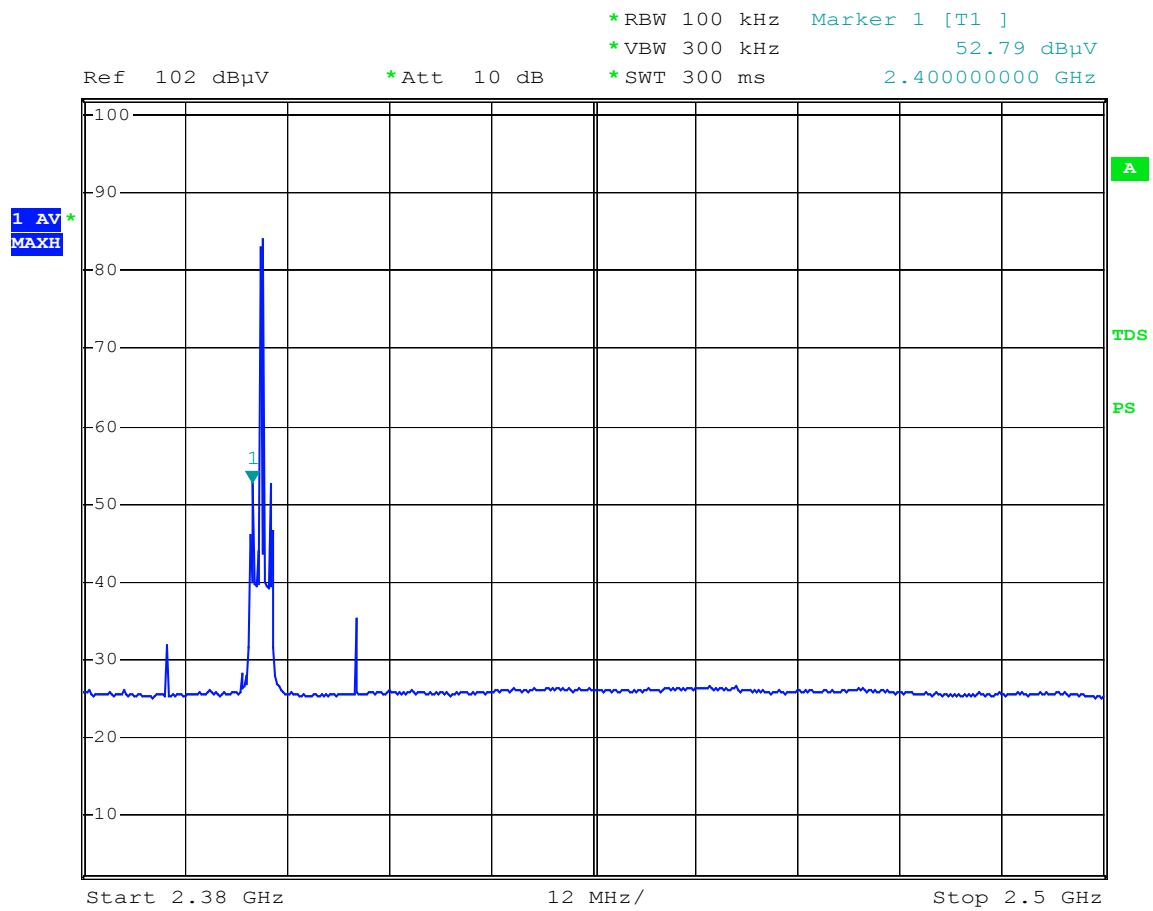
Frequency MHz	Emission dB μ V/m	Limit dB μ V/m
2483.5	25.49	54
2400.0	52.79	54

Test Result: Pass



out of band emission test

Date: 20.DEC.2005 09:20:50



out of band emission test

Date: 20.DEC.2005 09:13:53