



## FCC PART 15.249 EMI MEASUREMENT AND TEST REPORT

For

## **Acoustic Arc International Ltd.**

U 802 Causeway Bay Comm, Building, 1-5 Sugar Street HongKong

FCC ID: VHC-AAI-AS0710-00

This Report Concerns:  ⊠ Original Report		Equipment Type: 900MHz Wireless Speaker System	
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Report No.:	RSZ08010904		
Test Date:	2008-01-17 to 2008-01-31		
Report Date:	2008-02-02		
Reviewed By:	EMC Manager: Green Xu Green . Tu		
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**Note:** This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen) This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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### **GENERAL INFORMATION**

### **Product Description for Equipment under Test (EUT)**

The *Acoustic Arc International Ltd.*'s product, model number: AS071T *t*he "EUT" as referred to in this report is a *900MHz wireless speaker system*, which measures approximately 11.0 cmL x 11.0 cmW x 14.0cmH, rated input voltage: DC 6V adapter.

The series products, model name: AS071T, AS075T, AS076T, AS077T have the same circuit diagram, PCB layout, The difference of these three models is the case of the product., so, we select AS071T to test.

AC/DC Adapter:

Manufacturer: Acoustic Arc International Ltd.

Model: D6300

Input: 120V AC/60Hz 9W Output: 6V DC 300mA

### **Objective**

This Type approval report is prepared on behalf of *Acoustic Arc International 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 Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

<sup>\*</sup> All measurement and test data in this report was gathered from production sample serial number: 0801018 (Assigned by BACL, Shenzhen). The EUT was received on 2008-01-09.

### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories 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 Laboratories 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 <a href="http://ts.nist.gov/Standards/scopes/2007070.htm">http://ts.nist.gov/Standards/scopes/2007070.htm</a>

## SYSTEM TEST CONFIGURATION

### **Justification**

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

## **Equipment Modifications**

No modifications were made to the unit tested.

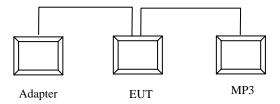
## **Local Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number	FCC ID
BLUEUSB	MP3	M9168	N/A	DoC

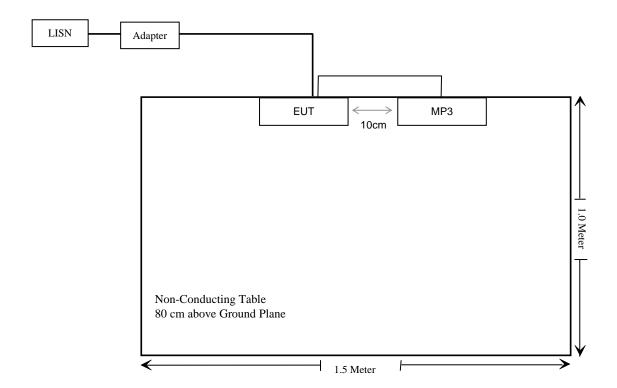
### **External I/O Cable**

Cable Description	Length (M)	From/Port	То
Unshielded Detachable DC Power Cable	160	EUT	Adapter
Unshielded Detachable Audio Cable	0.80	MP3	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
§15.207(a)	Conduction Emissions	Compliant
\$15.205(a), \$15.209(a), 15.249(a), \$15.249(c)	Radiated Emissions	Compliant
§15.249(d)	Out of Band Emissions	Compliant

## §15.203 - ANTENNA REQUIREMENT

## **Applicable Standard**

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

### **Antenna Connector Construction**

The EUT antenna is a permanently attached antenna, which in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.

**Result:** Compliant.

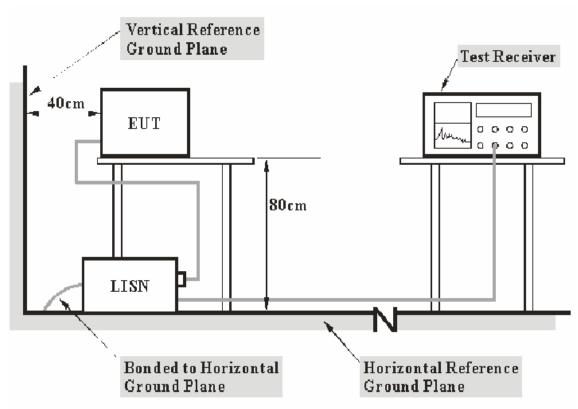
### §15.207 - CONDUCTED EMISSIONS

### **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 Laboratories Corp. (Shenzhen) is  $\pm 2.4$  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 adapter was connected to a 120 VAC/60 Hz power source.

### **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:

### **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	12208	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	DE25330	2007-03-26	2008-03-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2007-03-26	2008-03-26

<sup>\*</sup> Com-Power's LISN were used as the supporting equipment.

### **Test Procedure**

During the conducted emission test, the adapter was connected to the outlet of the LISN.

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.

### **Test Results Summary**

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

27.90 dB at 0.580 MHz in the Hot conductor mode, Channel 1 27.50 dB at 0.575 MHz in the Neutral conductor mode, Channel 3

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) 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:	100.0kPa

The testing was performed by Simon Mo on 2008-01-31.

Test Mode: Transmitting

### **Channel 1**

	Line Co	FCC Pa	rt15 .207		
Frequency (MHz)	Amplitude (dBµV)	Detector (QP/AV)	Conductor (Hot/Neutral)	Limit (dBµV)	Margin (dB)
0.580	28.10	QP	Hot	56.00	27.90
0.575	27.60	QP	Neutral	56.00	28.40
0.575	16.40	AV	Neutral	46.00	29.60
1.125	24.60	QP	Hot	56.00	31.40
0.580	13.90	AV	Hot	46.00	32.10
0.210	29.90	QP	Neutral	63.21	33.31
1.125	11.20	AV	Hot	46.00	34.80
1.330	19.90	QP	Neutral	56.00	36.10
0.210	16.80	AV	Neutral	53.21	36.41
4.685	18.70	QP	Hot	56.00	37.30
0.210	25.90	QP	Hot	63.21	37.31
0.210	15.80	AV	Hot	53.21	37.41
4.690	17.30	QP	Neutral	56.00	38.70
1.330	5.90	AV	Neutral	46.00	40.10
21.505	8.80	AV	Neutral	50.00	41.20
4.690	4.60	AV	Neutral	46.00	41.40
21.505	7.30	AV	Hot	50.00	42.70
4.720	3.10	AV	Hot	46.00	42.90
24.390	15.60	QP	Hot	60.00	44.40
24.390	3.40	AV	Hot	50.00	46.60
21.505	12.80	QP	Neutral	60.00	47.20
27.620	12.00	QP	Neutral	60.00	48.00
21.505	11.70	QP	Hot	60.00	48.30
27.620	0.30	AV	Neutral	50.00	49.70

**Channel 3** 

	Line Con	FCC Pa	rt15 .207		
Frequency (MHz)	Amplitude (dBµV)	Detector (QP/AV)	Conductor (Hot/Neutral)	Limit (dBµV)	Margin (dB)
0.575	28.50	QP	Neutral	56.00	27.50
0.590	26.50	QP	Hot	56.00	29.50
0.575	15.60	AV	Neutral	46.00	30.40
1.125	25.20	QP	Hot	56.00	30.80
0.590	13.60	AV	Hot	46.00	32.40
0.215	29.30	QP	Hot	63.01	33.71
1.120	21.60	QP	Neutral	56.00	34.40
1.125	11.30	AV	Hot	46.00	34.70
0.190	29.10	QP	Neutral	64.04	34.94
4.695	19.90	QP	Neutral	56.00	36.10
0.215	15.40	AV	Hot	53.01	37.61
4.730	16.80	QP	Hot	56.00	39.20
1.120	6.40	AV	Neutral	46.00	39.60
0.190	13.90	AV	Neutral	54.04	40.14
21.505	9.10	AV	Neutral	50.00	40.90
4.695	4.40	AV	Neutral	46.00	41.60
21.505	8.30	AV	Hot	50.00	41.70
27.360	17.00	QP	Hot	60.00	43.00
4.730	1.70	AV	Hot	46.00	44.30
21.505	13.20	QP	Neutral	60.00	46.80
27.660	12.90	QP	Neutral	60.00	47.10
21.505	12.40	QP	Hot	60.00	47.60
27.360	2.20	AV	Hot	50.00	47.80
27.650	0.80	AV	Neutral	50.00	49.20

## Plot(s) of Test Data

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

## CONDUCTED EMISSION TEST FCC PART 15

31. Jan 08 23:23

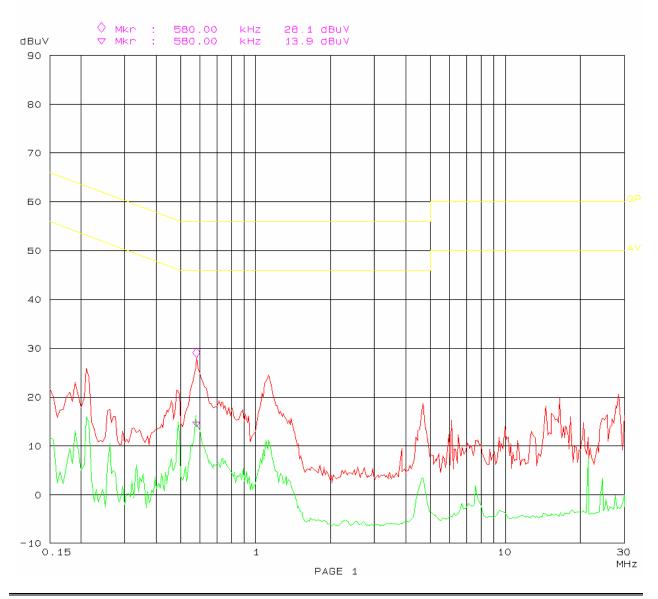
EUT: 900MHz wireless speaker system

Manuf: Acoustic Arc

Op Cond: CH1

Operator: SIMON

Test Spec: AC 120V/60Hz Hot



# CONDUCTED EMISSION TEST FCC PART 15

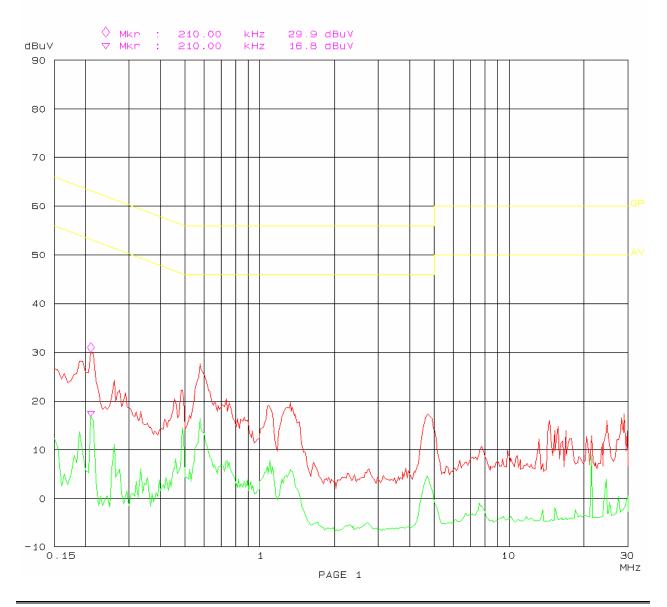
31. Jan 08 22:39

EUT: 900MHz wireless speaker system

Manuf: Acoustic Arc

Op Cond: CH1 Operator: SIMON

Test Spec: AC 120V/60Hz Neutral



# CONDUCTED EMISSION TEST FCC PART 15

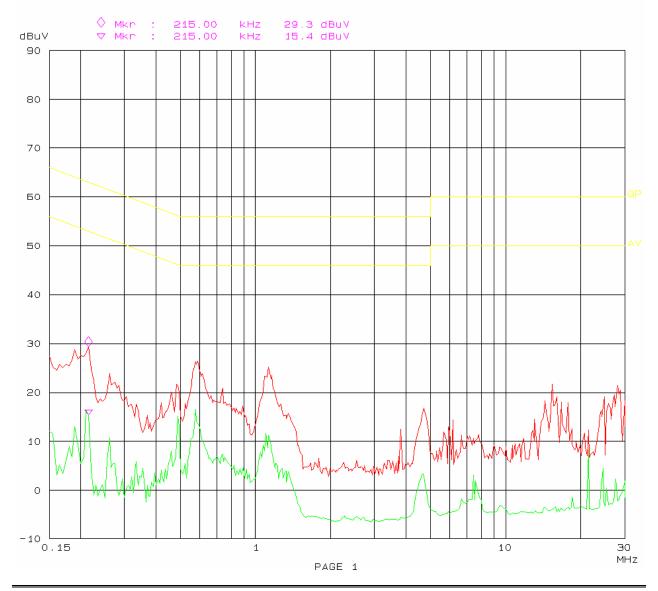
31. Jan 08 23:09

EUT: 900MHz wireless speaker system

Manuf: Acoustic Arc

Op Cond: CH3 Operator: SIMON

Test Spec: AC 120V/60Hz Hot



# CONDUCTED EMISSION TEST FCC PART 15

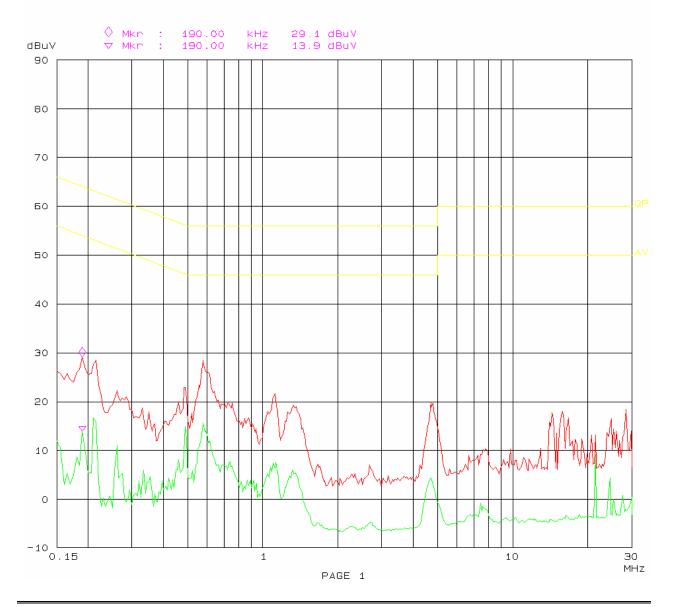
31. Jan 08 22:55

EUT: 900MHz wireless speaker system

Manuf: Acoustic Arc

Op Cond: CH3 Operator: SIMON

Test Spec: AC 120V/60Hz Neutral



## §15.205(a) §15.209(a) §15.249(a) §15.249(d) - RADIATED EMISSIONS

### **Applicable Standard**

As per §15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per §15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) 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.

### **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 Laboratories Corp. (Shenzhen) is +4.0 dB.

### **Test Equipment Setup**

The spectrum analyzer or receiver is set as:

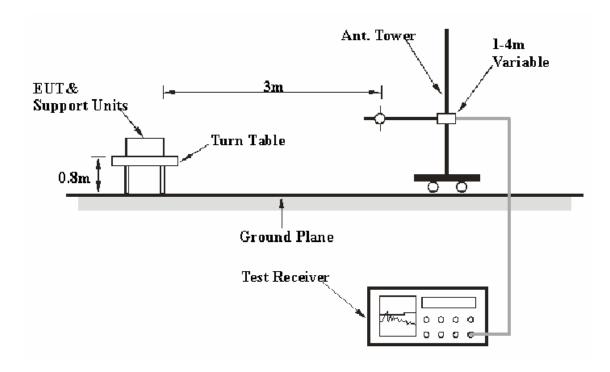
Below 1000MHz:

$$RBW = 100 \text{ kHz} / VBW = 300 \text{ kHz} / Sweep = Auto$$

Above 1000MHz:

- (1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
- (2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

### **EUT Setup**



The radiated emission and out of band emission tests were performed in the 3 meters 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.

## **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2007-10-16	2008-10-16
HP	Amplifier	8447E	1937A01046	2007-11-15	2008-11-15
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2007-08-14	2008-08-14
HP	Amplifier	8449B	3008A00277	2007-09-29	2008-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2007-09-25	2008-09-25
R&S	Spectrum Analyzer	FSEM30	849720/019	2007-05-09	2008-05-09

<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories 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 EUT, and all support equipment power cords was connected to the AC floor outlet.

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

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

### **Corrected Amplitude & Margin Calculation**

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss- 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 maximum limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

### **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC Part 15.209 & 15.249, with the worst margin reading of:

#### 30-1000 MHz:

11.6 dB at 722.616075 MHz in the Vertical polarization, Channel 1 15.8 dB at 456.562800 MHz in the Vertical polarization, Channel 3

### **Above 1GHz:**

**8.1 dB** at **912.50 MHz** in the **Vertical** polarization, **Channel 1 8.6 dB** at **913.50 MHz** in the **Vertical** polarization, **Channel 3** 

### **Test Data**

#### **Environmental Conditions**

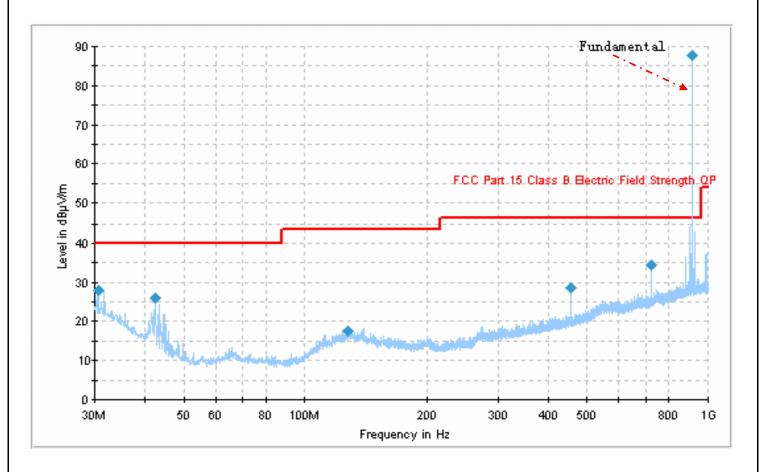
Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	100.9kPa

The testing was performed by Simon Mo on 2008-01-31.

*Test Mode: Transmitting* 

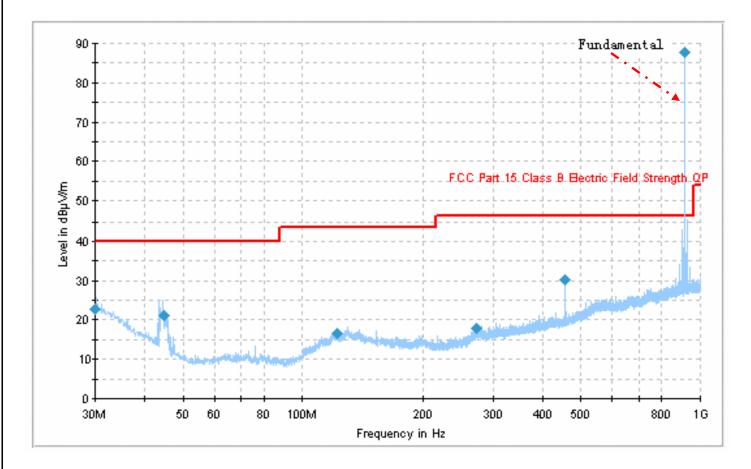
### **30 - 1000 MHz:**

### **Channel 1**



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
722.616075	34.4	153.0	V	215.0	-1.8	46.0	11.6
30.613151	28.1	301.0	V	218.0	-4.2	40.0	11.9
42.415655	26.1	147.0	V	47.0	-12.8	40.0	13.9
456.193544	28.5	178.0	V	64.0	1.5	46.0	17.5
127.841665	17.6	192.0	V	343.0	1.2	43.5	25.9

## Channel 3



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
456.562800	30.2	189.0	V	356.0	-7.1	46.0	15.8
30.110331	22.6	126.0	V	236.0	-4.1	40.0	17.4
44.816700	21.1	245.0	V	53.0	-14.7	40.0	18.9
122.751231	16.7	401.0	V	224.0	1.3	43.5	26.8
272.512378	17.8	197.0	V	356.0	1.5	46.0	28.2

## **Above 1GHz:**

Freq.	Receiver	Dotoctor	ector Direction /AV Degree	Antenna		Cable	Pre-	Cord.	FCC Part 15.209 & 15.249			
	Reading (dBµV)			Height (m)	Polar (H/V)	Factor (dB)	Loss (dB)	Amp. Gain (dB)	Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remarks
	Channel 1											
912.50	82.9	QP	180	1.5	V	22.9	6.6	26.5	85.9	94	8.1	Fund.
912.50	80.8	QP	180	1.5	Н	22.9	6.6	26.5	83.8	94	10.2	Fund.
2737.5	39.56	AV	324	1.3	V	28.5	4.40	33.4	39.06	54	14.94	Spurious
1825.00	40.78	AV	148	1.2	V	27.1	2.82	35.0	35.70	54	18.30	Spurious
1825.00	40.21	AV	230	1.6	Н	27.1	2.82	35.0	35.13	54	18.81	Spurious
2737.5	52.36	PK	324	1.3	V	28.5	440	33.4	50.86	74	23.14	Spurious
1368.75	39.29	AV	166	1.6	V	24.8	2.50	36.0	30.59	54	23.41	Spurious
1368.75	40.15	AV	148	1.5	Н	24.8	1.19	36.0	30.14	54	23.86	Spurious
2737.5	39.11	AV	56	1.5	Н	28.5	4.40	33.4	34.61	54	24.39	Spurious
1825.00	52.33	PK	148	1.2	V	27.1	2.82	35.0	47.25	74	26.75	Spurious
1825.00	52.33	PK	230	1.6	Н	27.1	2.82	35.0	47.25	74	26.75	Spurious
2737.5	52.50	PK	56	1.5	Н	28.5	4.40	33.4	52.00	74	29.00	Spurious
1368.75	52.19	PK	166	1.6	V	24.8	2.50	36.0	43.49	74	30.51	Spurious
1368.75	52.56	PK	148	1.5	Н	24.8	1.19	36.0	42.55	74	31.45	Spurious
						Chan	nel 3					
913.50	82.4	QP	180	1.5	V	22.9	6.6	26.5	85.4	94	8.6	Fund.
913.50	80.3	QP	180	1.5	Н	22.9	6.6	26.5	83.3	94	10.7	Fund.
2740.50	40.06	AV	324	1.3	V	28.5	4.40	33.4	39.56	54	14.54	Spurious
1827.00	41.28	AV	148	1.2	V	27.1	2.82	35.0	36.20	54	17.8	Spurious
1827.00	40.71	AV	230	1.6	Н	27.1	2.82	35.0	35.63	54	18.31	Spurious
2740.50	52.86	PK	324	1.3	V	28.5	440	33.4	51.36	74	22.64	Spurious
1370.25	39.79	AV	166	1.6	V	24.8	2.50	36.0	31.09	54	22.91	Spurious
1370.25	40.65	AV	148	1.5	Н	24.8	1.19	36.0	30.64	54	23.36	Spurious
2740.50	39.61	AV	56	1.5	Н	28.5	4.40	33.4	35.21	54	23.89	Spurious
1827.00	52.83	PK	148	1.2	V	27.1	2.82	35.0	47.75	74	26.25	Spurious
1827.00	52.83	PK	230	1.6	Н	27.1	2.82	35.0	47.75	74	26.25	Spurious
2740.50	53.00	PK	56	1.5	Н	28.5	4.40	33.4	52.60	74	28.5	Spurious
1370.25	52.69	PK	166	1.6	V	24.8	2.50	36.0	43.99	74	30.50	Spurious
1370.25	53.06	PK	148	1.5	Н	24.8	1.19	36.0	43.05	74	30.95	Spurious

### §15.249(d) – OUT OF BAND EMISSIONS

### **Applicable Standard**

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**

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set the RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including the specified frequencies of band edges.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2007-10-16	2008-10-16
НР	Amplifier	8449B	3008A00277	2007-09-29	2008-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2007-09-25	2008-09-25

<sup>\*</sup> **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

### **Test Data**

### **Environmental Conditions**

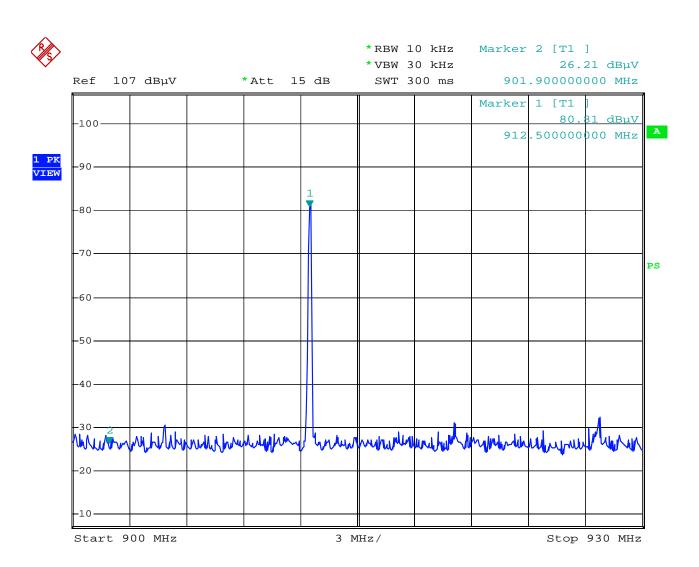
Temperature:	25 ° C
Relative Humidity:	53%
<b>ATM Pressure:</b>	100.9kPa

The testing was performed by Simon Mo on 2008-01-17.

Test Result: Compliant.

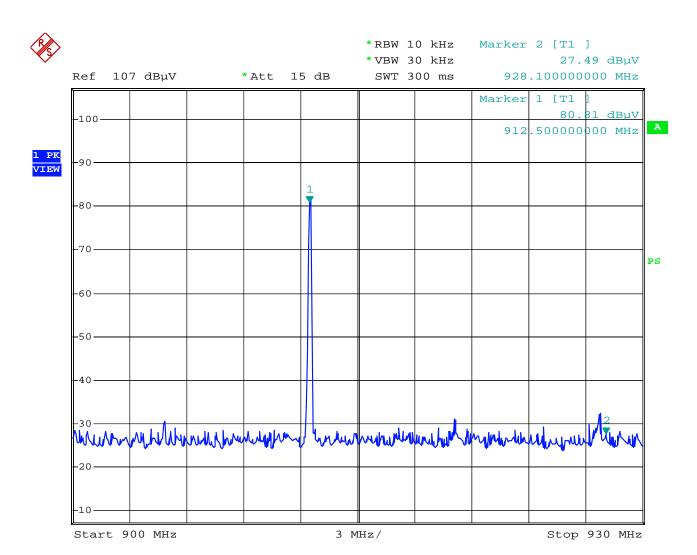
Please refer to following plots.

### **Channel 1**



FREQUENCY RANGE LEFT SIDE

Date: 17.JAN.2008 11:35:49



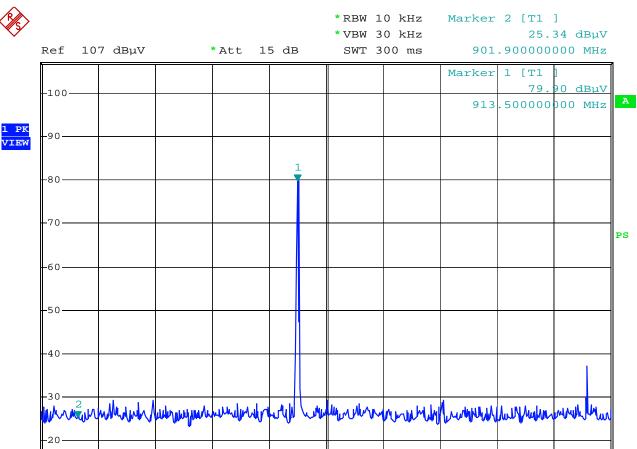
FREQUENCY RANGE RIGHT SIDE

Date: 17.JAN.2008 11:37:37

Stop 930 MHz

### **Channel 3**



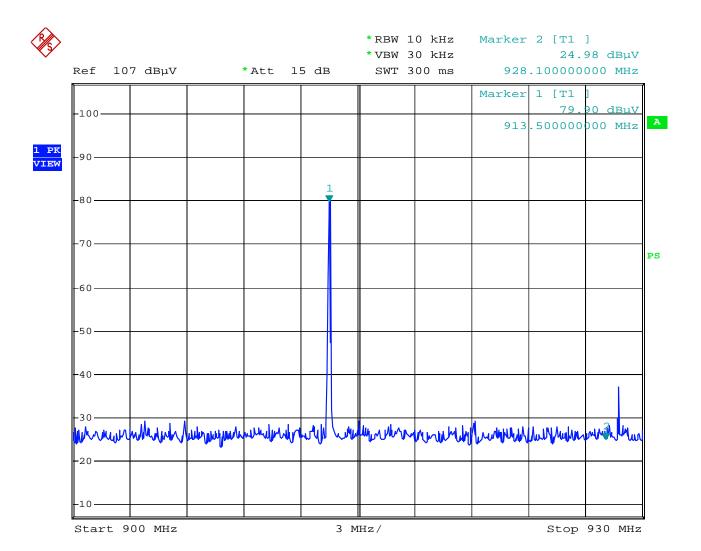


3 MHz/

FREQUENCY RANGE LEFT SIDE

Start 900 MHz

Date: 17.JAN.2008 11:41:28



FREQUENCY RANGE RIGHT SIDE

Date: 17.JAN.2008 11:40:17

## \*\*\*\*\*END OF REPORT\*\*\*\*