



NVLAP LAB CODE 200707-0



FCC PART 15.249

MEASUREMENT AND TEST REPORT

For

Summer Infant, Inc.

582 Great Road North Smithfield Rhode Island 02896, USA

FCC ID: PZK262AT

Report Type: Original Report	Equipment Type: Day and Night Video Monitor (Transmitter)
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Report No.: RSZ09022507	
Report Date: 2009-03-13	
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* This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk “*”

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Summer Infant, Inc.* 's product, model 262AT, or the "EUT" as referred to in this report is a *DAY AND NIGHT VIDEO MONITOR (TRANSMITTER)* which measures approximately 10.0 cm L x 8.0 cm W x 14 cm H, rated input voltage: DC 7.5V Adapter.

AC/DC Adapter:
Model: AD150750200
Input : AC 120V.260mA.60Hz
Output: DC 7.5V, 200mA

** All measurement and test data in this report was gathered from production sample serial number: 0902056 (Assigned by BAEL, Shenzhen). The EUT was received on 2009-02-25.*

Objective

This Type approval report is prepared on behalf of *Summer Infant, Inc.* 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.

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).



NVLAP LAB CODE 200707-0

The current scope of accreditations can be found at
<http://ts.nist.gov/Standards/scopes/2007070.htm>

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.

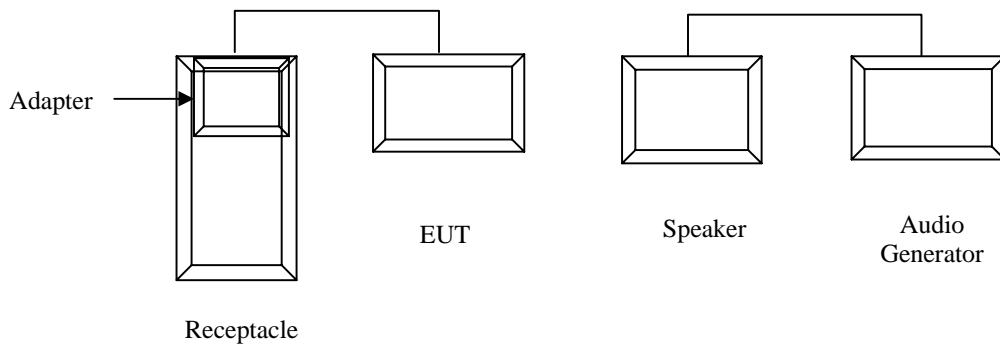
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
NanYan	Audio Generator	NY2201	N/A	DoC
RCA	Speaker	RTD170	N/A	DoC

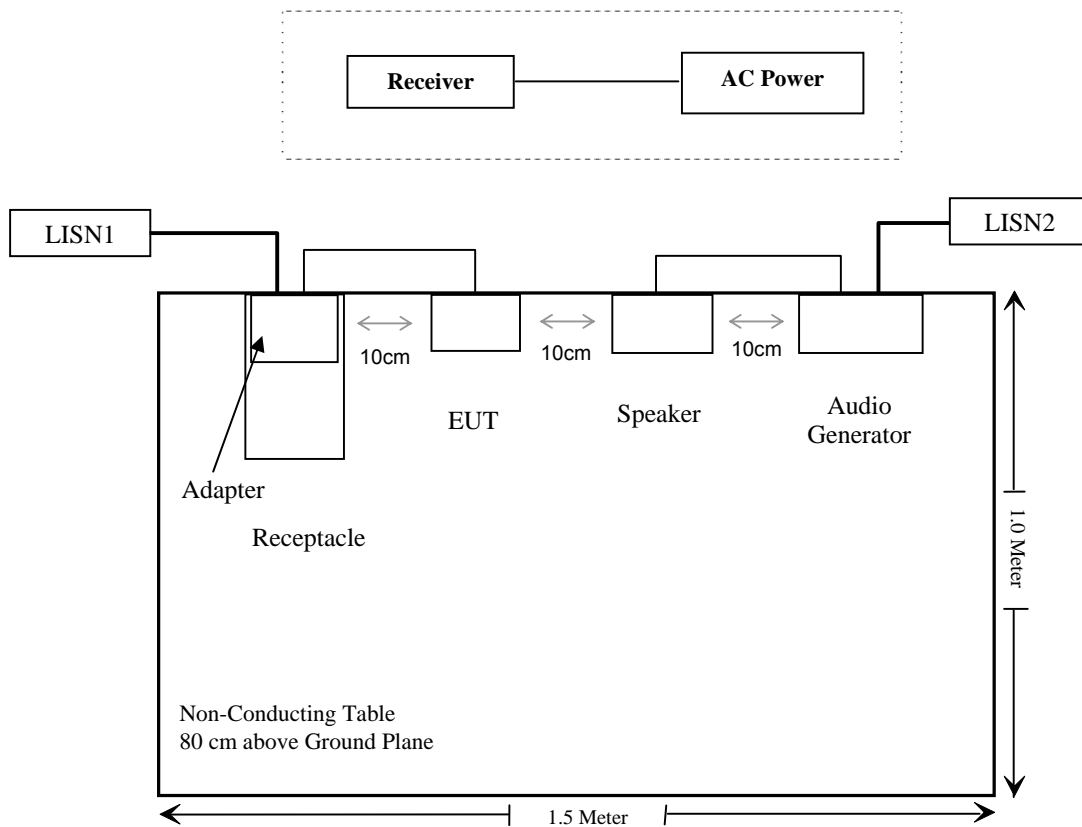
External I/O Cable

Cable Description	Length (m)	From Port	To
Unshielded Detachable Power Cable	3.6	Adapter	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), §15.35	Radiated Emissions	Compliant*
§15.249(d)	Out of Band Emissions	Compliant

Note: * Within measurement uncertainty.

§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 has an integral antenna soldered on PCB, which in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.

Result: Compliant.

Please refer to the EUT photos.

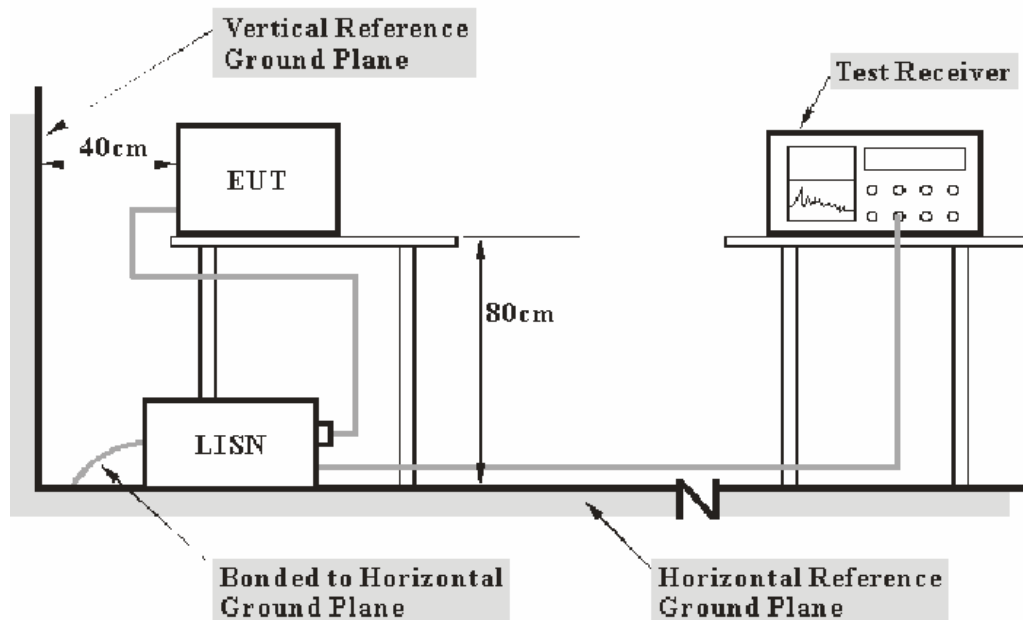
§15.207(a) - CONDUCTED EMISSIONS

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 ± 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 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	12208	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	DE25330	2008-03-25	2009-03-25
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2008-03-25	2009-03-25

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

* **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

During the conducted emission test, the adapter was connected to the outlet of the first LISN, and the audio generator was connected to the second 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 FCC Part 15.207(a), with the worst margin reading of:

2.00 dB at 0.175 MHz in the **Neutral** conductor mode.

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Vicent Kang on 2009-03-12.

Test Mode: Transmitting

Line Conducted Emissions				FCC Part15.207	
Frequency (MHz)	Amplitude (dB μ V)	Detector (QP/AV)	Conductor (Line/Neutral)	Limit (dB μ V)	Margin (dB)
0.175	62.70	QP	Neutral	64.70	2.00*
0.580	42.70	AV	Line	46.00	3.30
0.525	52.50	QP	Neutral	56.00	3.50
0.520	42.40	AV	Line	46.00	3.60
0.525	41.90	AV	Neutral	46.00	4.10
0.235	58.00	QP	Neutral	62.30	4.30
0.580	50.60	QP	Line	56.00	5.40
0.585	49.90	QP	Neutral	56.00	6.10
0.465	39.90	AV	Line	46.60	6.70
0.175	47.70	AV	Neutral	54.70	7.00
0.290	53.40	QP	Neutral	60.50	7.10
0.520	48.60	QP	Line	56.00	7.40
0.235	43.80	AV	Neutral	52.30	8.50
0.585	36.80	AV	Neutral	46.00	9.20
0.290	40.90	AV	Line	50.50	9.60
0.465	46.90	QP	Line	56.60	9.70
0.350	48.80	QP	Neutral	59.00	10.20
0.290	39.60	AV	Neutral	50.50	10.90
0.290	49.30	QP	Line	60.50	11.20
0.175	52.50	QP	Line	64.70	12.20
0.230	49.60	QP	Line	62.40	12.80
0.230	38.60	AV	Line	52.40	13.80
0.350	35.00	AV	Neutral	49.00	14.00
0.175	39.50	AV	Line	54.70	15.20

* Within measurement uncertainty.

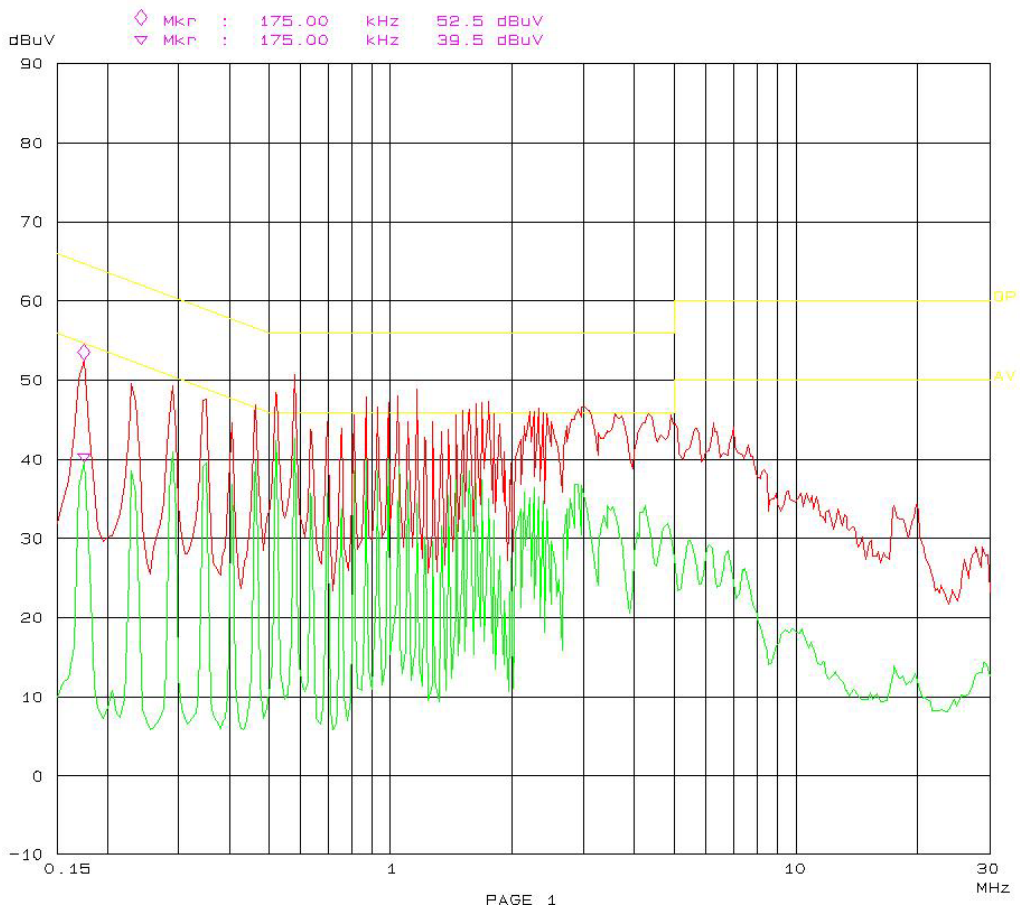
Plot(s) of Test Data

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

Conducted emission
FCC Part15

12. Mar 09 14:35

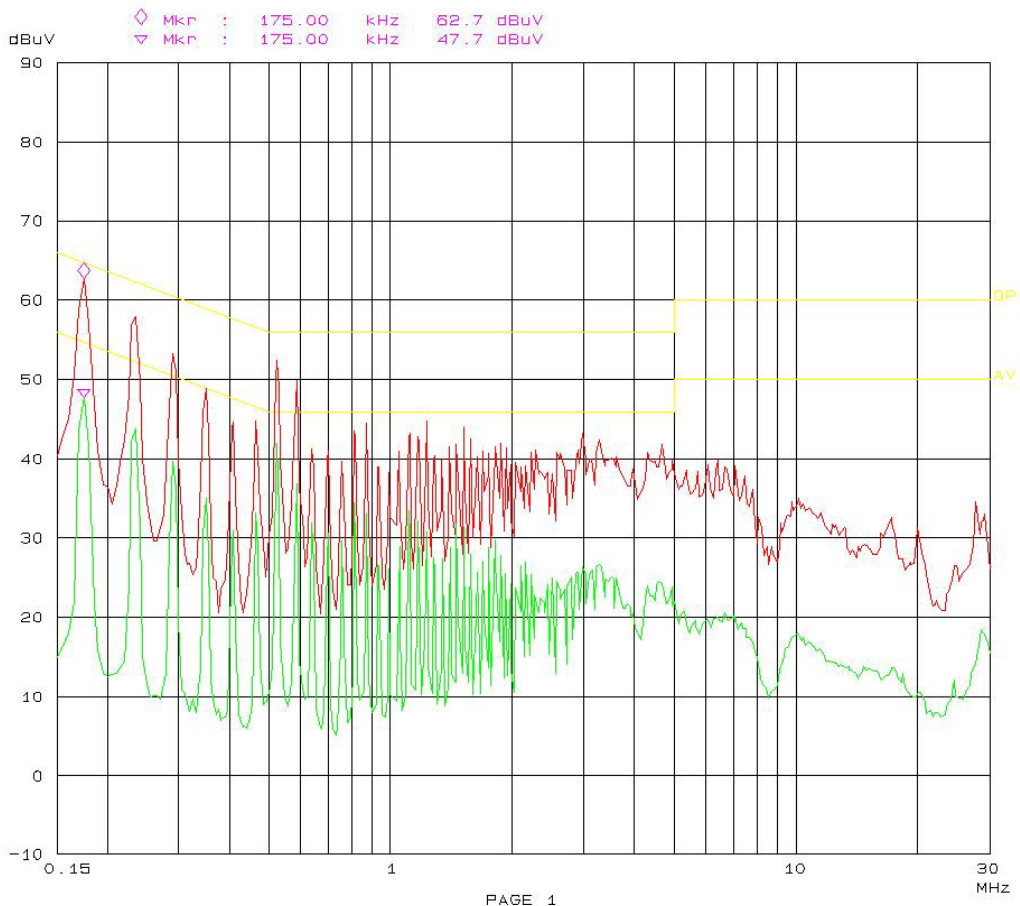
EUT: Day and night video monitor M/N: 262AT
Manuf: Summer
Op Cond: Transmitting
Operator: Vicent
Test Spec: AC 120V/60Hz L
Comment: Temp: 25 Hum: 56%
BACL



Conducted emission
FCC Part15

12. Mar 09 15:32

EUT: Day and night video monitor M/N: 262AT
Manuf: Summer
Op Cond: Transmitting
Operator: Vicent
Test Spec: AC 120V/60Hz N
Comment: Temp: 25 Hum: 56%
BACL



§15.205(a) §15.209(a) §15.249(a) §15.249(d) §15.35 - 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:

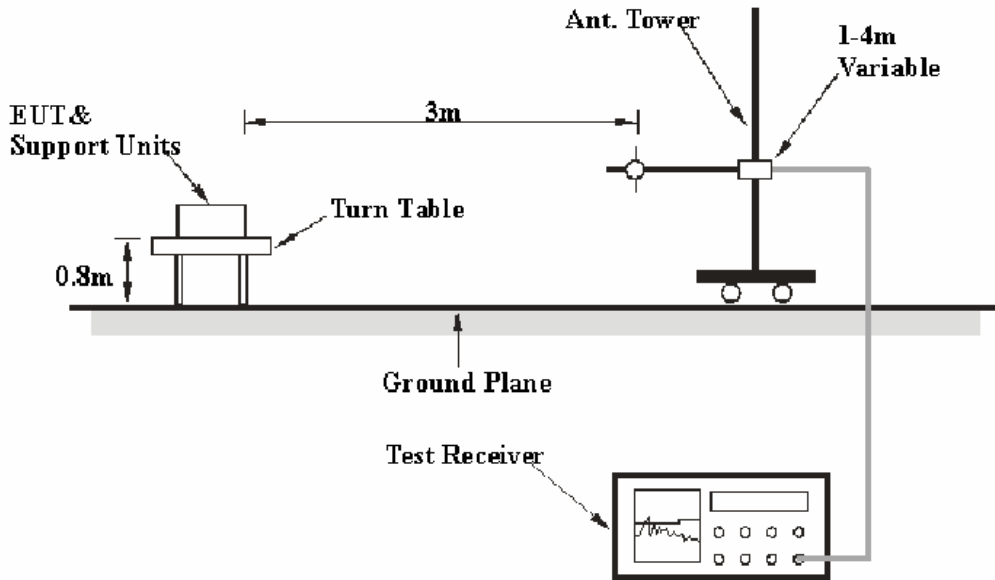
Below 1000 MHz:

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

Above 1000 MHz:

$$\begin{aligned} \text{Peak: RBW} &= 1\text{MHz} / \text{VBW} = 1\text{MHz} / \text{Sweep} = \text{Auto} \\ \text{Average: RBW} &= 1\text{MHz} / \text{VBW} = 10 \text{ Hz} / \text{Sweep} = \text{Auto} \end{aligned}$$

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
HP	Amplifier	8447E	1937A01046	2008-11-15	2009-11-15
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2008-10-16	2009-10-16
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2008-04-12	2009-04-12
HP	Amplifier	8449B	3008A00277	2008-09-29	2009-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2008-09-25	2009-09-25
Rohde & Schwarz	Spectrum Analyzer	FSEM30	849720/019	2008-05-09	2009-05-09

* **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 adapter and audio generator 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.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 mete, 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:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

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:

Below 1GHz:

- 4.0 dB** at **31.170625 MHz** in the **Vertical** polarization for Channel A.
- 3.7 dB** at **31.876200 MHz** in the **Vertical** polarization for Channel B.
- 2.9 dB** at **31.799350 MHz** in the **Horizontal** polarization for Channel C.

Above 1GHz:

- 6.20 dB** at **2730 MHz** in the **Horizontal** polarization for Low Channel.
- 3.32 dB** at **2745 MHz** in the **Horizontal** polarization for Middle Channel.
- 4.88 dB** at **2763 MHz** in the **Horizontal** polarization for High Channel.
- 8.24 dB** at **910.0 MHz** in the **Vertical** polarization for Fundamental Channel.

Test Data

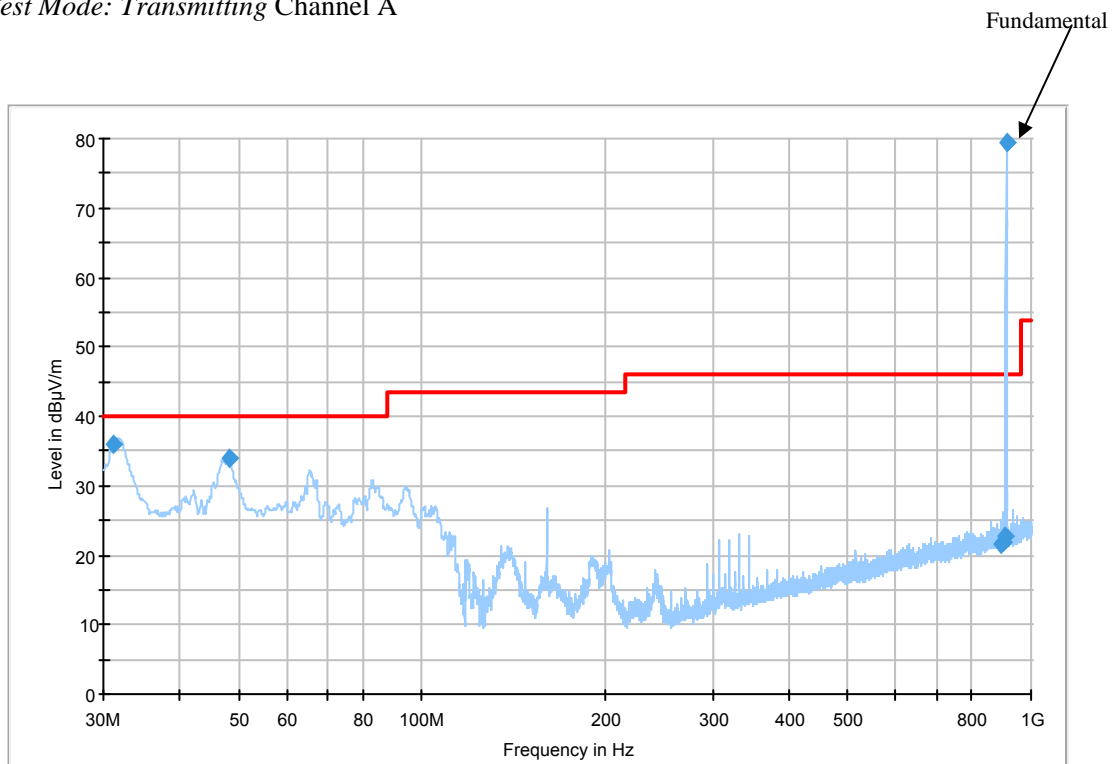
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa

The testing was performed by Vicent Kang on 2009-03-12.

30-1000 MHz:

Test Mode: Transmitting Channel A

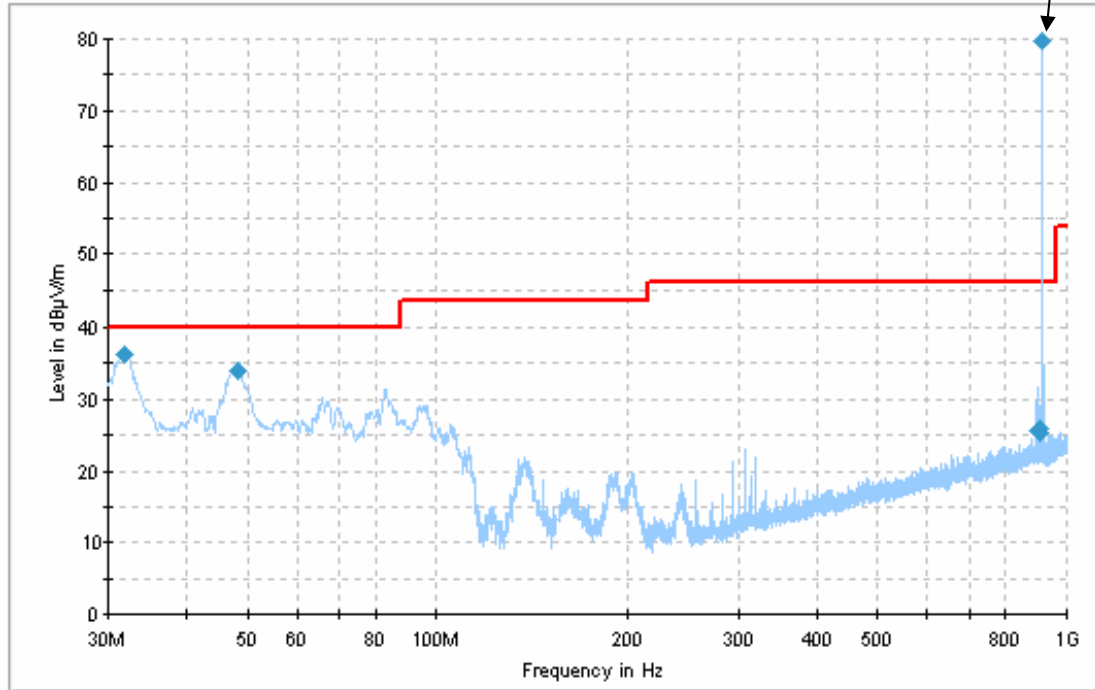


Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
31.170625	36.0	100.0	V	34.0	-27.5	40.0	4.0*
48.280375	34.0	376.0	H	13.0	-9.3	40.0	6.0
905.651075	22.7	193.0	H	284.0	-9.4	46.0	23.3
897.200325	21.9	203.0	H	303.0	-9.4	46.0	24.1
894.243450	21.6	400.0	H	2.0	-9.3	46.0	24.4

* Within measurement uncertainty.

Test Mode: Transmitting Channel B

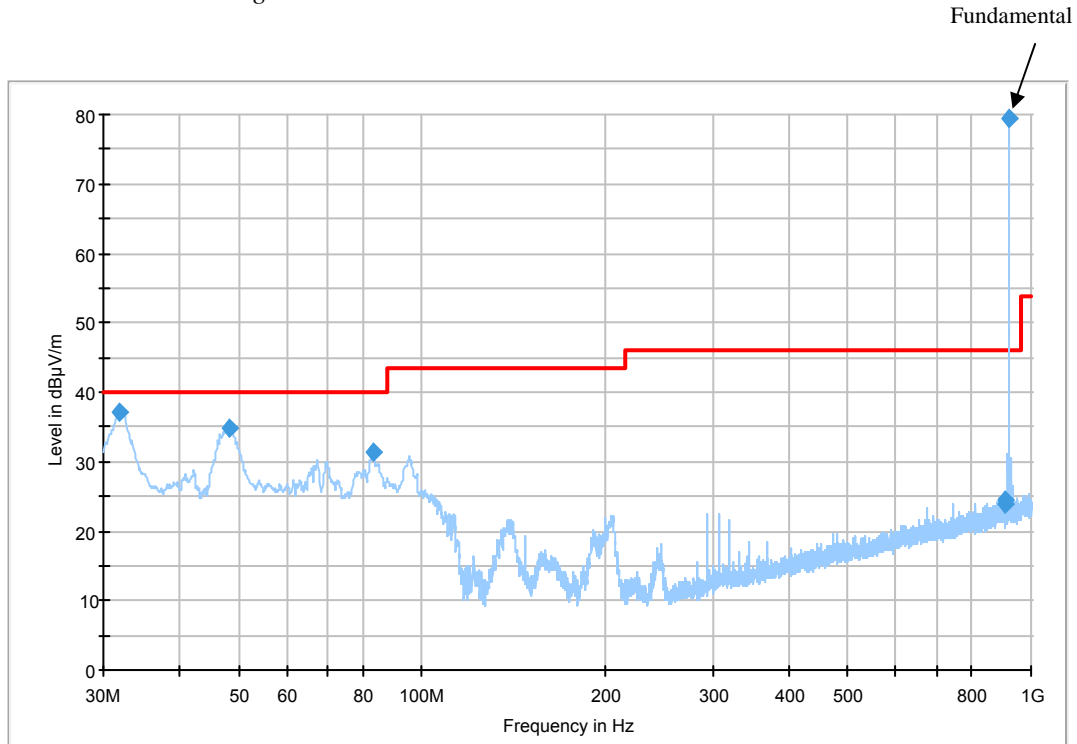
Fundamental



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
31.876200	36.3	99.0	V	0.0	-18.2	40.0	3.7*
48.319900	34.0	102.0	V	3.0	-28.2	40.0	6.0
906.877100	25.8	145.0	H	160.0	-9.5	46.0	20.2
897.187700	25.5	196.0	H	315.0	-9.4	46.0	20.5
905.913650	25.4	202.0	H	22.0	-9.4	46.0	20.6

* Within measurement uncertainty.

Test Mode: Transmitting Channel C



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
31.799350	37.1	381.0	H	75.0	-18.2	40.0	2.9*
48.461725	34.9	101.0	V	3.0	-28.2	40.0	5.1
83.200300	31.5	131.0	V	313.0	-30.8	40.0	8.5
905.502675	24.6	202.0	H	123.0	-9.4	46.0	21.4
906.902700	24.0	148.0	H	340.0	-9.5	46.0	22.0

* Within measurement uncertainty.

Fundamental:

Frequency (MHz)	S.A. Reading (dBuV/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre-Amp. (dB)	Cord. Reading (dBuV/m)	FCC Part 15.249		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	Comment
910.0	87.63	QP	155	1.0	V	20.4	3.88	26.15	85.76	94	8.24	Fund.
915.0	87.53	QP	155	1.0	V	20.4	3.88	26.10	85.71	94	8.29	Fund.
920.0	86.82	QP	155	1.0	V	20.5	3.89	26.05	85.16	94	8.84	Fund.
910.0	86.46	QP	90	1.5	H	20.4	3.88	26.15	84.59	94	9.41	Fund.
915.0	86.08	QP	90	1.5	H	20.4	3.88	26.10	84.26	94	9.74	Fund.
920.0	84.95	QP	90	1.5	H	20.5	3.89	26.05	83.29	94	10.71	Fund.

Above 1GHz:

Frequency (MHz)	S.A. Reading (dBuV/m)	Detector (PK/QP/AV)	Direction (Degree)	Test Antenna			Cable Loss (dB)	Pre-Amp. (dB)	Cord. Reading (dBuV/m)	FCC Part 15.249/15.209		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBuV/m)	Margin (dB)	Comment
Low Channel (f = 910 MHz)												
2730	42.80	AV	148	1.5	H	30.9	7.9	33.8	47.8	54	6.20	Harmonics
2730	40.10	AV	324	1.3	V	30.9	7.9	33.8	45.1	54	8.90	Harmonics
1820	35.91	AV	166	1.6	V	28.8	5.99	34.2	36.5	54	17.50	Harmonics
2730	50.34	PK	324	1.3	V	30.9	7.9	33.8	55.34	74	18.66	Harmonics
1820	34.74	AV	148	1.2	H	28.8	5.99	34.2	35.33	54	18.67	Harmonics
2730	49.40	PK	148	1.5	H	30.9	7.9	33.8	54.4	74	19.60	Harmonics
1820	47.70	PK	166	1.6	V	28.8	5.99	34.2	48.29	74	25.71	Harmonics
1820	47.01	PK	148	1.2	H	28.8	5.99	34.2	47.6	74	26.40	Harmonics
Middle Channel (f = 915 MHz)												
2745	45.68	AV	148	1.5	H	30.9	7.9	33.8	50.68	54	3.32*	Harmonics
2745	41.26	AV	324	1.3	V	30.9	7.9	33.8	46.26	54	7.74	Harmonics
2745	52.21	PK	148	1.5	H	30.9	7.9	33.8	57.21	74	16.79	Harmonics
2745	51.18	PK	324	1.3	V	30.9	7.9	33.8	56.18	74	17.82	Harmonics
1830	34.93	AV	148	1.2	H	28.8	5.99	34.2	35.52	54	18.48	Harmonics
1830	34.89	AV	166	1.6	V	28.8	5.99	34.2	35.48	54	18.52	Harmonics
1830	47.23	PK	148	1.2	H	28.8	5.99	34.2	47.82	74	26.18	Harmonics
1830	47.10	PK	166	1.6	V	28.8	5.99	34.2	47.69	74	26.31	Harmonics
High Channel (f = 921 MHz)												
2763	44.12	AV	148	1.5	H	30.9	7.9	33.8	49.12	54	4.88	Harmonics
2763	41.35	AV	324	1.3	V	30.9	7.9	33.8	46.35	54	7.65	Harmonics
1842	36.67	AV	166	1.6	V	28.8	5.99	34.2	37.26	54	16.74	Harmonics
2763	51.66	PK	324	1.3	V	30.9	7.9	33.8	56.66	74	17.34	Harmonics
2763	51.44	PK	148	1.5	H	30.9	7.9	33.8	56.44	74	17.56	Harmonics
1842	34.71	AV	148	1.2	H	28.8	5.99	34.2	35.3	54	18.70	Harmonics
1842	49.01	PK	166	1.6	V	28.8	5.99	34.2	49.6	74	24.40	Harmonics
1842	47.23	PK	148	1.2	H	28.8	5.99	34.2	47.82	74	26.18	Harmonics

* Within measurement uncertainty.

§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

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 mete, 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 at the band edge. The receiving antenna should be changed the polarization both of horizontal and vertical.

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2008-11-07	2009-11-06
HP	Amplifier	8447E	1937A01046	2008-08-02	2009-08-02
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2008-03-11	2009-03-11

* **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

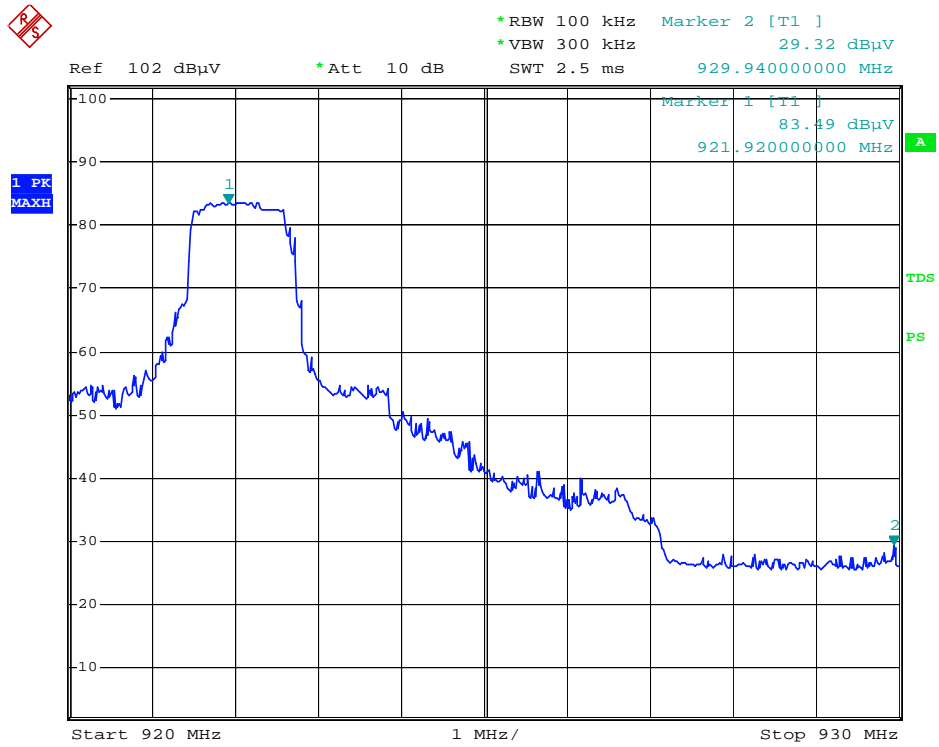
Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

*The testing was performed by Vicent Kang on 2009-03-13.

Test Result: Compliant

Please refer to the following table and plots.

Band Edge - Right Side



Date: 13.MAR.2009 15:31:10

******* END OF REPORT *******