

FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT

For

Summer Infant Inc.

582 Great Road North Smithfield, Rhode Island 02896 USA

FCC ID: PZK02180AT

October 8, 2006

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: DAY AND NIGHT VIDEO MONITOR
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Report No.: RSZ06060502	
Test Date: September 27-30, 2006	
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Note: The test report is specially limited to the above company and this particular sample only. It may not be duplicated without prior written consent of Bay Area Compliance Lab Corp. (ShenZhen). This report must not be used by the client to claim product certification, 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 *Summer Infant Inc.*'s product, model number: *02180A* or the "EUT" as referred to in this report is a *DAY AND NIGHT VIDEO MONITOR*. The EUT is measured approximately 12.5 cm L x 10.2 cm W x 9.0 cm H, rated input voltage: AC 120VC/60Hz.

Adapter: Manufacturer: WANJIA
Model: WJ-AB-1A0060
Input: AC 100-240V 50/ 60Hz 0.6A, Output: 12VDC 500mA

** The test data gathered are from production sample, serial number: 06092819 provided by the manufacturer, we received EUT on 2006-6-5.*

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 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
NANYAN	Audio Generator	NY2201	N/A	DoC

External I/O Cable

Cable Description	Length (M)	From/Port	To
ANT	0.155	Antenna	/

SYSTEM TEST CONFIGURATION

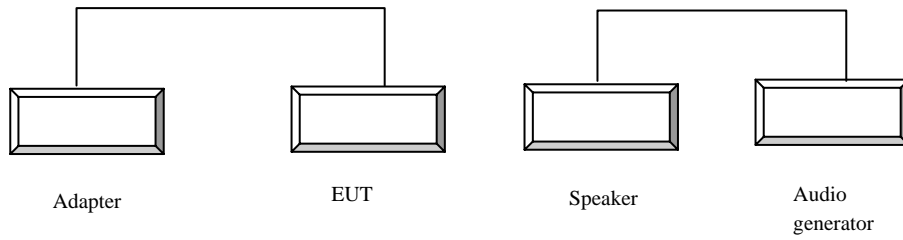
Justification

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

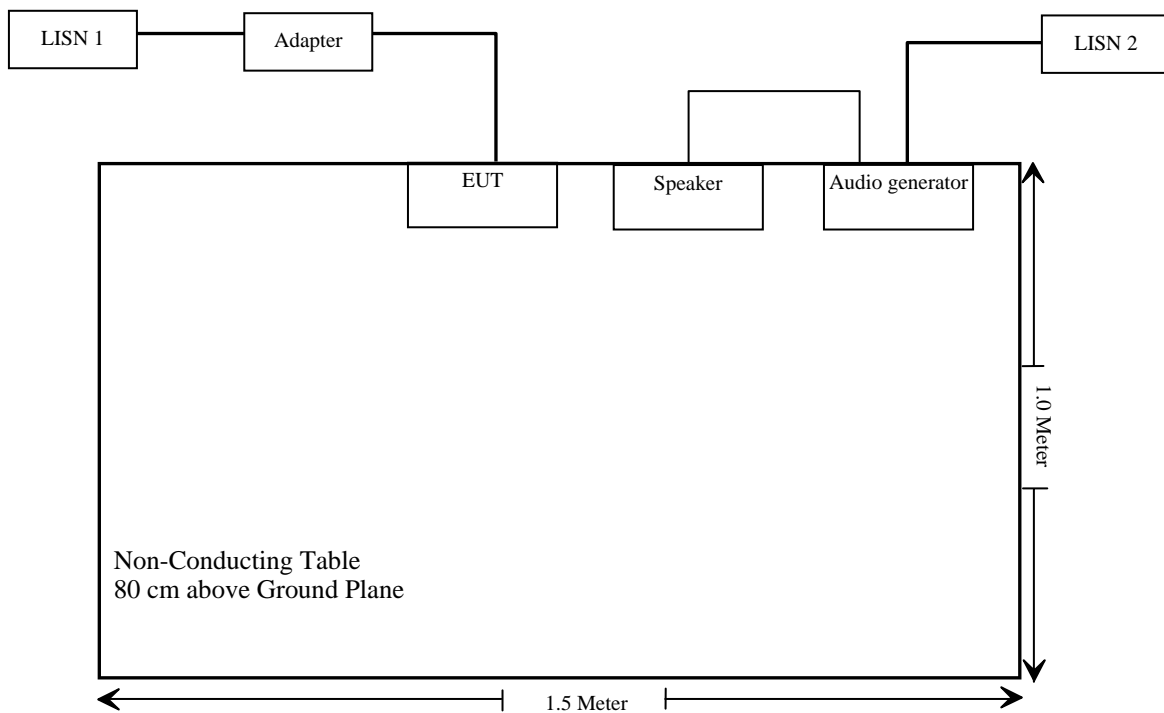
Equipment Modifications

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
§15.207(a)	Conduction Emission	Compliant
§15.205(a), §15.209(a), §15.249(a)	Radiated Emission	Compliant
§15.249(d)	Out of band emission	Compliant

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

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

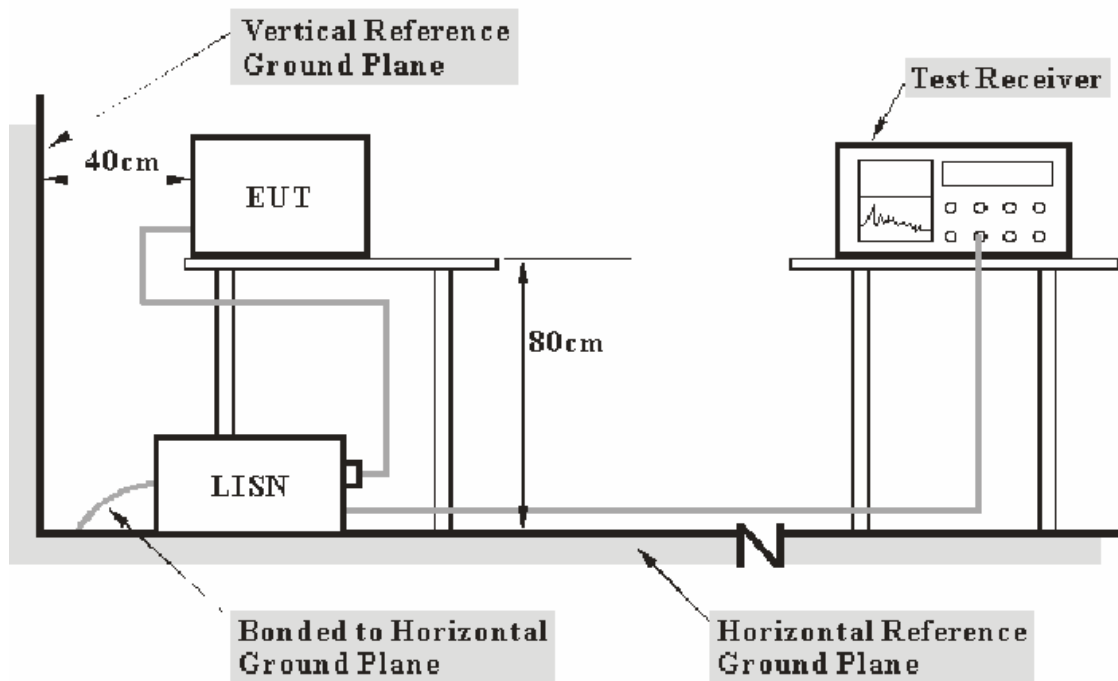
§15.207 - CONDUCTED EMISSION

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 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	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	DE25330 or 830245/006	2006-1-26	2007-1-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2006-3-1	2007-3-1

* 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

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 FCC Part 15.207, with the worst margin reading of:

Transmitting (Low Channel): -4.29 dB at 0.180 MHz in the Live conductor mode.
Transmitting (High Channel): -4.46 dB at 0.185 MHz in the Live conductor mode.

Test Data**Environmental Conditions**

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

The testing was performed by Deny Xiong on 2006-9-29.

Test mode: Transmitting (Low Channel)

Frequency MHz	LINE CONDUCTED EMISSIONS			FCC PART 15 .207	
	Amplitude dB μ V	Detector QP/AV	Phase Live/Neutral	Limit dB μ V	Margin dB
0.180	60.20	QP	Live	64.49	-4.29
0.185	58.90	QP	Neutral	64.26	-5.36
0.240	56.70	QP	Neutral	62.10	-5.40
0.240	45.20	AV	Neutral	52.10	-6.90
0.490	38.80	AV	Neutral	46.17	-7.37
0.675	36.90	AV	Neutral	46.00	-9.10
0.185	44.60	AV	Neutral	54.26	-9.66
0.385	38.50	AV	Neutral	48.17	-9.67
0.180	44.60	AV	Live	54.49	-9.89
0.305	50.20	QP	Neutral	60.11	-9.91
0.240	52.10	QP	Live	62.10	-10.00
0.385	47.40	QP	Neutral	58.17	-10.77
0.675	44.90	QP	Neutral	56.00	-11.10
0.305	38.90	AV	Neutral	50.11	-11.21
0.490	44.90	QP	Neutral	56.17	-11.27
0.555	31.10	AV	Live	46.00	-14.90
0.555	40.10	QP	Live	56.00	-15.90
0.300	43.90	QP	Live	60.24	-16.34
0.240	34.80	AV	Live	52.10	-17.30
0.150	48.20	QP	Live	66.00	-17.80
0.375	39.60	QP	Live	58.39	-18.79
0.375	24.40	AV	Live	48.39	-23.99
0.300	25.00	AV	Live	50.24	-25.24
0.150	28.40	AV	Live	56.00	-27.60

Test mode: Transmitting (High Channel)

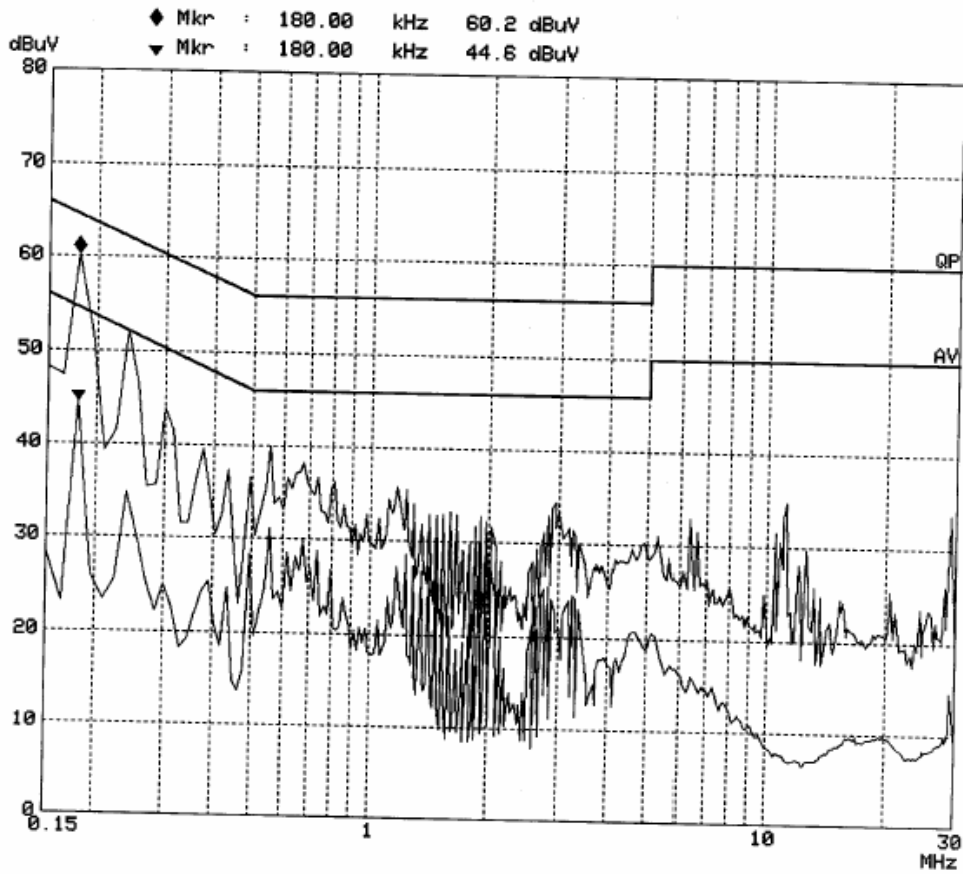
Frequency MHz	LINE CONDUCTED EMISSIONS			FCC PART 15 .207	
	Amplitude dB μ V	Detector QP/AV	Phase Live/Neutral	Limit dB μ V	Margin dB
0.185	59.80	QP	Live	64.26	-4.46
0.185	58.90	QP	Neutral	64.26	-5.36
0.245	55.10	QP	Live	61.92	-6.82
0.490	38.70	AV	Neutral	46.17	-7.47
0.245	53.40	QP	Neutral	61.92	-8.52
0.185	45.00	AV	Neutral	54.26	-9.26
0.185	44.90	AV	Live	54.26	-9.36
0.245	42.40	AV	Neutral	51.92	-9.52
0.385	48.20	QP	Live	58.17	-9.97
0.385	37.80	AV	Live	48.17	-10.37
0.305	48.70	QP	Live	60.11	-11.41
0.305	48.60	QP	Neutral	60.11	-11.51
0.245	40.30	AV	Live	51.92	-11.62
0.305	38.40	AV	Neutral	50.11	-11.71
0.370	45.40	QP	Live	58.50	-13.10
0.370	34.80	AV	Live	48.50	-13.70
0.490	41.20	QP	Neutral	56.17	-14.97
0.305	34.80	AV	Live	50.11	-15.31
0.275	45.10	QP	Live	60.97	-15.87
0.275	35.00	AV	Live	50.97	-15.97
0.365	41.10	QP	Neutral	58.61	-17.51
0.425	38.00	QP	Neutral	57.35	-19.35
0.425	27.60	AV	Neutral	47.35	-19.75
0.365	26.80	AV	Neutral	48.61	-21.81

Plot(s) of Test Data

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

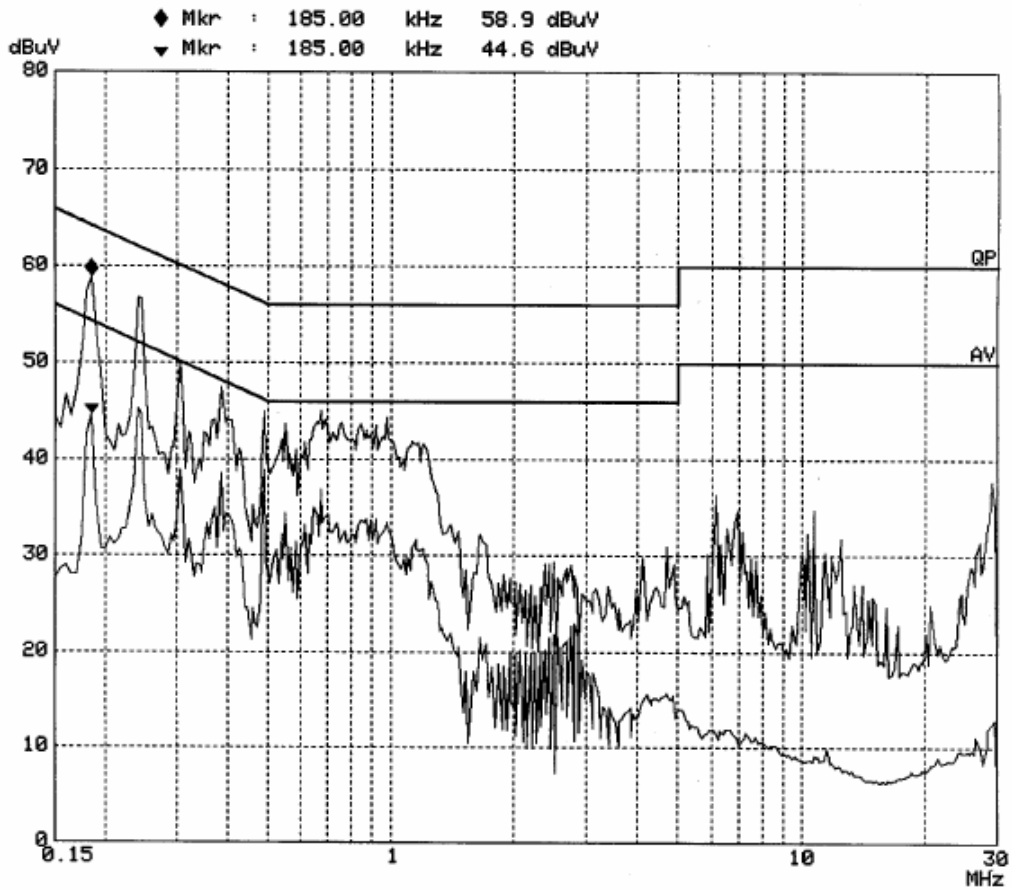
Conduction Emission Test FCC Part 15

EUT: DAY AND NIGHT VIDEO MONITOR M/N:02180A
Manuf: Summer
Op Cond: Transmitting Low channel
Operator: deny
Test Spec: AC 120V/60Hz L
Comment: Temp:26 Humi:50%
Date: 29. Sep 06 16:12



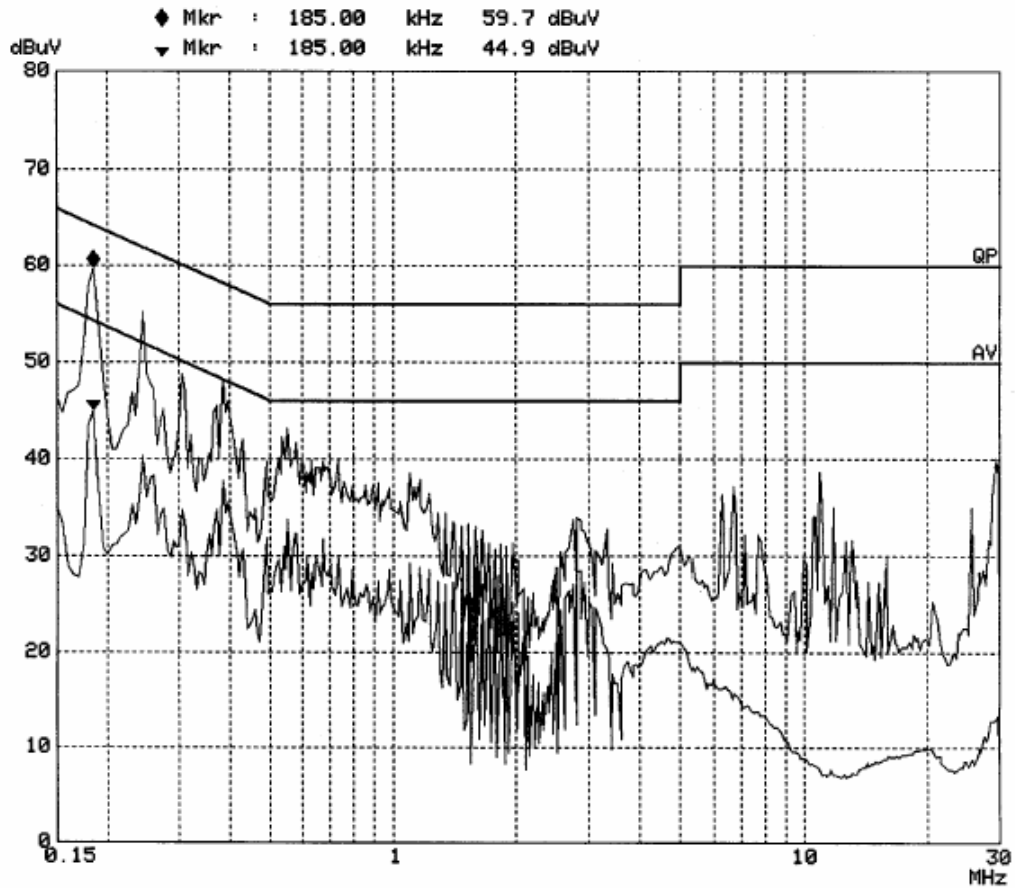
Conduction Emission Test FCC Part 15

EUT: DAY AND NIGHT VIDEO MONITOR M/N:02180A
Manuf: Summer
Op Cond: Transmitting Low channel
Operator: deny
Test Spec: AC 120V/60Hz N
Comment: Temp:26 Humi:50%
Date: 29. Sep 06 17:01



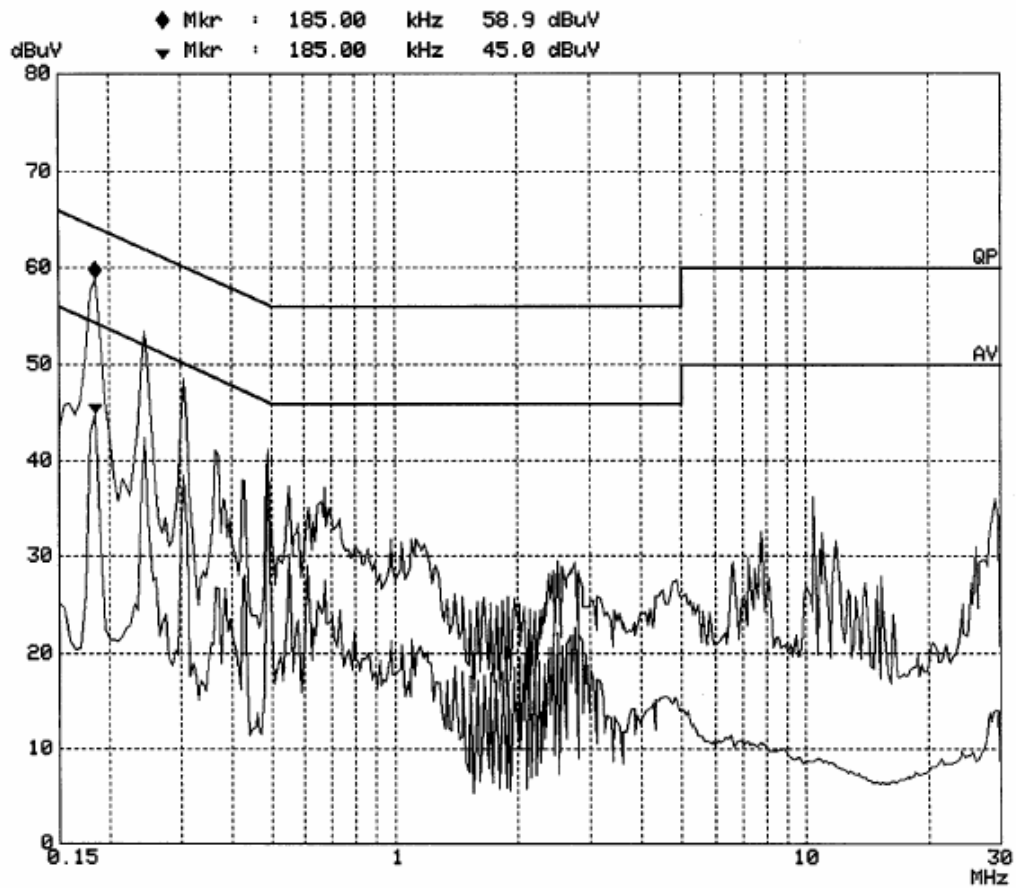
Conduction Emission Test FCC Part 15

EUT: DAY AND NIGHT VIDEO MONITOR M/N:02180A
Manuf: Summer
Op Cond: Transmitting High channel
Operator: deny
Test Spec: AC 120V/60Hz L
Comment: Temp:26 Humi:50%
Date: 29. Sep 06 16:33



Conduction Emission Test FCC Part 15

EUT: DAY AND NIGHT VIDEO MONITOR M/N:02180A
Manuf: Summer
Op Cond: Transmitting High channel
Operator: deny
Test Spec: AC 120V/60Hz N
Comment: Temp:26 Humi:50%
Date: 29. Sep 06 16:46



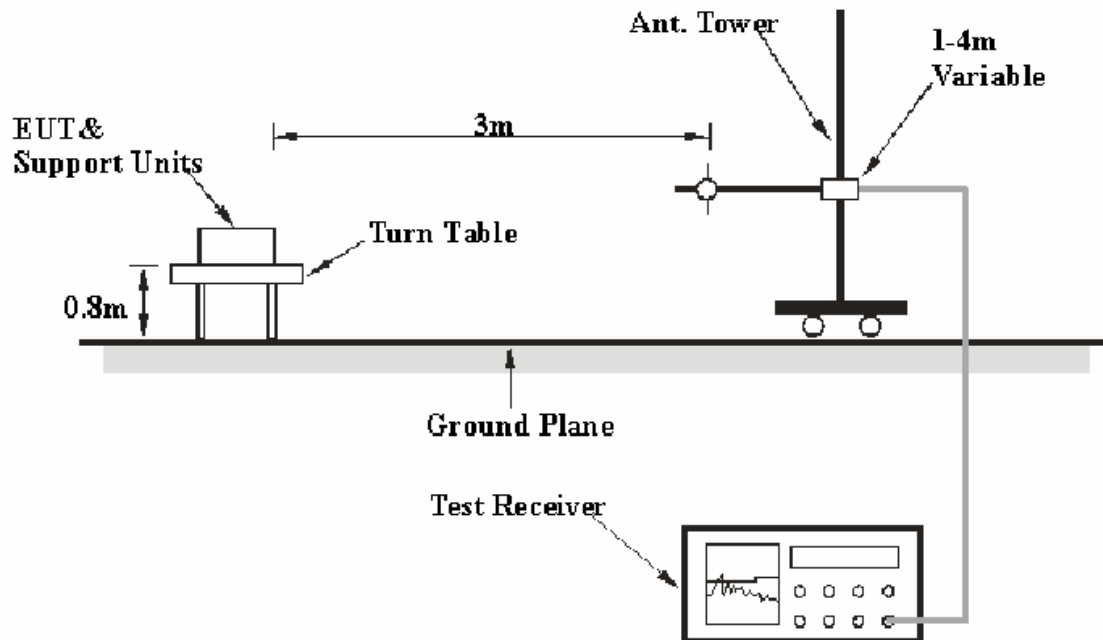
§15.205 §15.209(a) §15.249(a) - RADIATED EMISSION

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 and out of band emission tests were performed in the 3 meters chamber A&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 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 and out of band 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	2006-8-17	2007-8-17
HP	Amplifier	HP8447E	1937A01046	2006-8-17	2007-8-17
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2006-4-28	2007-4-28
Agilent	Spectrum Analyzer	8564E	3943A01781	2005-12-8	2006-12-8
HP	Preamplifier	8449B	3008A00277	2006-8-17	2007-8-17
SUNOL SCIENCES	Horn Antenna	DRH-118	A052604	2006-7-20	2007-7-20

* **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 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.

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

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:

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

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:

Transmitting (Low channel): **-11.07 dB** at **31.86 MHz** in the **Vertical** polarization. 30-1000MHz
 Transmitting (Low channel): **-11.83 dB** at **2730 MHz** in the **Vertical** polarization. Above 1000MHz.
 Transmitting (High channel): **-11.04 dB** at **31.07 MHz** in the **Vertical** polarization. 30-1000MHz
 Transmitting (High channel): **-5.25 dB** at **1840.00MHz** in the **Vertical** polarization. Above 1000MHz.

Test Data

Environmental Conditions

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

The testing was performed by Deny Xiong on 2006-9-27.

Test mode: Transmitting (Low channel): 30MHz---1000MHz

Frequency MHz	Meter Reading dBuV/ m	Detector PK/QP/AV	Direction Degree	Height Meter	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier Gain dB	Corr. Ampl. dBuV/m	FCC Part 15.209 & 15.249		
										Limit dBuV/m	Margin dB	Comment
Low Channel: 30MHz---1000MHz												
31.86	33.76	QP	56	1.2	V	21.6	0.37	26.8	28.93	40.0	-11.07	Spurious
82.69	45.69	QP	238	1.6	V	8.5	0.65	26.8	28.04	40.0	-11.96	Spurious
324.46	42.01	QP	256	1.6	H	14.5	2.61	25.8	33.32	46.0	-12.68	Spurious
910.00	81.01	QP	40	1.0	V	22.8	3.87	26.5	81.18	94.0	-12.82	Fundamental
137.10	40.25	QP	40	1.0	V	14.2	1.86	26.6	29.71	43.5	-13.79	Spurious
33.16	30.27	QP	148	1.5	H	21.6	0.37	26.8	25.44	40.0	-14.56	Spurious
807.20	31.49	QP	153	1.8	H	21.9	3.62	26.7	30.31	46.0	-15.69	Spurious
59.05	42.10	QP	148	1.5	V	8.1	0.53	26.8	23.93	40.0	-16.07	Spurious
194.56	36.74	QP	252	1.1	V	12.0	1.73	26.0	24.47	43.5	-19.03	Spurious
485.18	31.55	QP	20	1.8	H	18.2	2.76	27.1	25.41	46.0	-20.59	Spurious
977.94	30.98	QP	235	1.6	H	23.5	4.12	26.0	32.60	54.0	-21.40	Spurious
910.00	72.04	QP	252	1.1	H	22.8	3.87	26.5	72.21	94.0	-21.79	Fundamental

Test mode: Transmitting (Low channel): Above 1000MHz

Frequency MHz	Meter Reading dBuV/ m	Detector PK/QP/AV	Direction Degree	Height Meter	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier Gain dB	Corr. Ampl. dBuV/m	FCC Part 15.209 & 15.249		
										Limit dBuV/m	Margin dB	Comment
Low Channel: Above 1000MHz												
2730	42.67	AV	142	1.5	V	28.5	4.40	33.4	42.17	54	-11.83	Harmonic
1820	45.83	AV	180	1.0	V	27.1	2.82	35.0	40.75	54	-13.25	Harmonic
3640	38.00	AV	235	1.4	V	30.3	4.04	32.5	39.84	54	-14.16	Harmonic
2730	39.33	AV	270	1.6	H	28.5	4.40	33.4	38.83	54	-15.17	Harmonic
4550	34.33	AV	268	1.2	V	30.9	4.42	32.5	37.15	54	-16.85	Harmonic
3640	34.17	AV	261	1.0	H	30.3	4.04	32.5	36.01	54	-17.99	Harmonic
5460	32.17	AV	90	1.2	V	32.2	4.19	33.4	35.16	54	-18.84	Harmonic
1820	40.17	AV	263	1.4	H	27.1	2.82	35.0	35.09	54	-18.91	Harmonic
5460	31.33	AV	250	1.6	H	32.2	4.19	33.4	34.32	54	-19.68	Harmonic
4550	30.67	AV	45	1.0	H	30.9	4.42	32.5	33.49	54	-20.51	Harmonic
5460	45.50	PK	90	1.2	V	32.2	4.19	33.4	48.49	74	-25.51	Harmonic
4550	44.17	PK	268	1.2	V	30.9	4.42	32.5	46.99	74	-27.01	Harmonic
2730	47.17	PK	142	1.5	V	28.5	4.40	33.4	46.67	74	-27.33	Harmonic
5460	43.50	PK	250	1.6	H	32.2	4.19	33.4	46.49	74	-27.51	Harmonic
1820	51.17	PK	180	1.0	V	27.1	2.82	35.0	46.09	74	-27.91	Harmonic
3640	44.00	PK	235	1.4	V	30.3	4.04	32.5	45.84	74	-28.16	Harmonic
2730	45.00	PK	49	1.2	H	28.5	4.40	33.4	44.50	74	-29.50	Harmonic
4550	40.33	PK	18	1.6	H	30.9	4.42	32.5	43.15	74	-30.85	Harmonic
3640	41.00	PK	180	1.3	H	30.3	4.04	32.5	42.84	74	-31.16	Harmonic
1820	46.67	PK	20	1.2	H	27.1	2.82	35.0	41.59	74	-32.41	Harmonic

Test mode: Transmitting (High channel): 30MHz---1000MHz

Frequency MHz	Meter Reading dBuV/ m	Detector PK/QP/AV	Direction Degree	Height Meter	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier Gain dB	Corr. Ampl. dBuV/m	FCC Part 15.209 & 15.249		
										Limit dBuV/m	Margin dB	Comment
High Channel: 30MHz---1000MHz												
31.07	33.79	QP	189	1.39	V	21.6	0.37	26.8	28.96	40.0	-11.04	Spurious
136.45	42.29	QP	81	2.00	V	14.2	1.67	26.6	31.56	43.5	-11.94	Spurious
82.94	45.52	QP	48	1.00	V	8.5	0.65	26.8	27.87	40.0	-12.13	Spurious
920.00	80.83	QP	189	1.39	V	22.8	3.87	26.5	81.00	94.0	-13.00	Fundamental
31.95	30.43	QP	168	1.30	H	21.6	0.37	26.8	25.60	40.0	-14.40	Spurious
58.40	42.17	QP	48	1.00	V	7.9	0.52	26.8	23.79	40.0	-16.21	Spurious
867.20	29.97	QP	146	1.70	H	22.2	3.93	26.5	29.60	46.0	-16.40	Spurious
193.77	36.25	QP	81	2.00	V	11.8	1.73	26.0	23.78	43.5	-19.72	Spurious
472.17	32.95	QP	26	1.20	H	17.6	2.79	27.1	26.24	46.0	-19.76	Spurious
137.42	32.34	QP	257	1.60	H	14.2	1.86	26.6	21.80	43.5	-21.70	Spurious
920.00	70.32	QP	146	1.70	H	22.8	3.87	26.5	70.49	94.0	-23.51	Fundamental
258.32	33.44	QP	163	1.50	H	12.4	2.25	26.0	22.09	46.0	-23.91	Spurious

Test mode: Transmitting (High channel): Above 1000MHz

Frequency MHz	Meter Reading dBuV/ m	Detector PK/QP/AV	Direction Degree	Height Meter	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier Gain dB	Corr. Ampl. dBuV/m	FCC Part 15.209 & 15.249		
										Limit dBuV/m	Margin dB	Comment
High Channel: Above 1000MHz												
1840	53.83	AV	90	1.2	V	27.1	2.82	35.0	48.75	54	-5.25	Harmonic
1840	48.67	AV	197	1.6	H	27.1	2.82	35.0	43.59	54	-10.41	Harmonic
2760	41.67	AV	269	1.5	V	28.5	4.40	33.4	41.17	54	-12.83	Harmonic
4600	37.33	AV	125	1.5	V	30.9	4.42	32.5	40.15	54	-13.85	Harmonic
2760	38.50	AV	109	1.2	H	28.5	4.40	33.4	38.00	54	-16.00	Harmonic
5520	33.83	AV	86	1.2	V	32.5	4.30	33.4	37.23	54	-16.77	Harmonic
3680	35.33	AV	204	1.3	V	30.3	4.04	32.5	37.17	54	-16.83	Harmonic
3680	34.50	AV	45	1.0	H	30.3	4.04	32.5	36.34	54	-17.66	Harmonic
5520	32.00	AV	180	1.6	H	32.5	4.30	34.4	34.40	54	-19.60	Harmonic
4600	31.67	AV	182	1.2	H	30.9	4.42	33.4	33.59	54	-20.41	Harmonic
1840	56.33	PK	90	1.2	V	27.1	2.82	35.0	51.25	74	-22.75	Harmonic
4600	47.50	PK	125	1.5	V	30.9	4.42	32.5	50.32	74	-23.68	Harmonic
5520	45.83	PK	86	1.2	V	32.5	4.30	33.4	49.23	74	-24.77	Harmonic
5520	44.33	PK	45	1.0	H	32.5	4.30	34.4	46.73	74	-27.27	Harmonic
2760	47.00	PK	269	1.5	V	28.5	4.40	33.4	46.5	74	-27.50	Harmonic
1840	51.50	PK	197	1.6	H	27.1	2.82	35.0	46.42	74	-27.58	Harmonic
4600	43.50	PK	182	1.2	H	30.9	4.42	33.4	45.42	74	-28.58	Harmonic
3680	43.17	PK	204	1.3	V	30.3	4.04	32.5	45.01	74	-28.99	Harmonic
2760	44.83	PK	109	1.2	H	28.5	4.40	33.4	44.33	74	-29.67	Harmonic
3680	42.33	PK	180	1.0	H	30.3	4.04	32.5	44.17	74	-29.83	Harmonic

§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

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 RBW of spectrum analyzer to 100KHz and VBW to 300KHz with a convenient frequency span including 100kHz bandwidth from band edge.
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
Agilent	Spectrum Analyzer	8564E	3943A01781	2005-12-8	2006-12-8

* **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 Deny Xiong on 2006-9-30.

Test Mode: Transmitting

Frequency (MHz)	Emission (dBuV/m)	Limit (dBuV/m)
901.90	26.27	46
928.10	26.84	46

Test Result: Pass