

FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT

For

Lorex Technology Inc.

300 Alden Road, Markham, Ontario Canada L3R 4C1

FCC ID: UCZSG8840

June 20, 2006

This Report Concerns: <input checked="" type="checkbox"/> Original Report	Equipment Type: 2.4GHz Wireless Camera
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Report No.: RSZ06060602	
Test Date: June 9-12, 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 Lorex Technology Inc. 's product, model number: SG8840 or the "EUT" as referred to in this report is a 2.4GHz Wireless Camera. The EUT is measured approximately 9.3 cm L x 3.2 cm W x 8.0 cm H, rated input voltage: DC 5 V adapter.

Adapter Manufacturer: Golden Profit Electronics Ltd, Model: GPR051-050070-1
Input: 100~240 V 50/60Hz 0.15A, Output: 5 V DC 700mA

** The test data gathered are from production sample, serial number: 0606012 provided by the manufacturer, we received EUT on 2006-6-6.*

Objective

This Type approval report is prepared on behalf of *Lorex Technology 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>

External I/O Cable

Cable Description	Length (M)	From/Port	To
Shielded Uudetachable DC Cable	1.87	EUT	Adapter

SYSTEM TEST CONFIGURATION

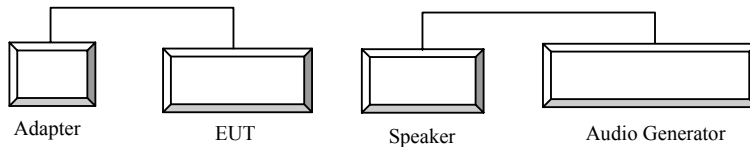
Justification

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

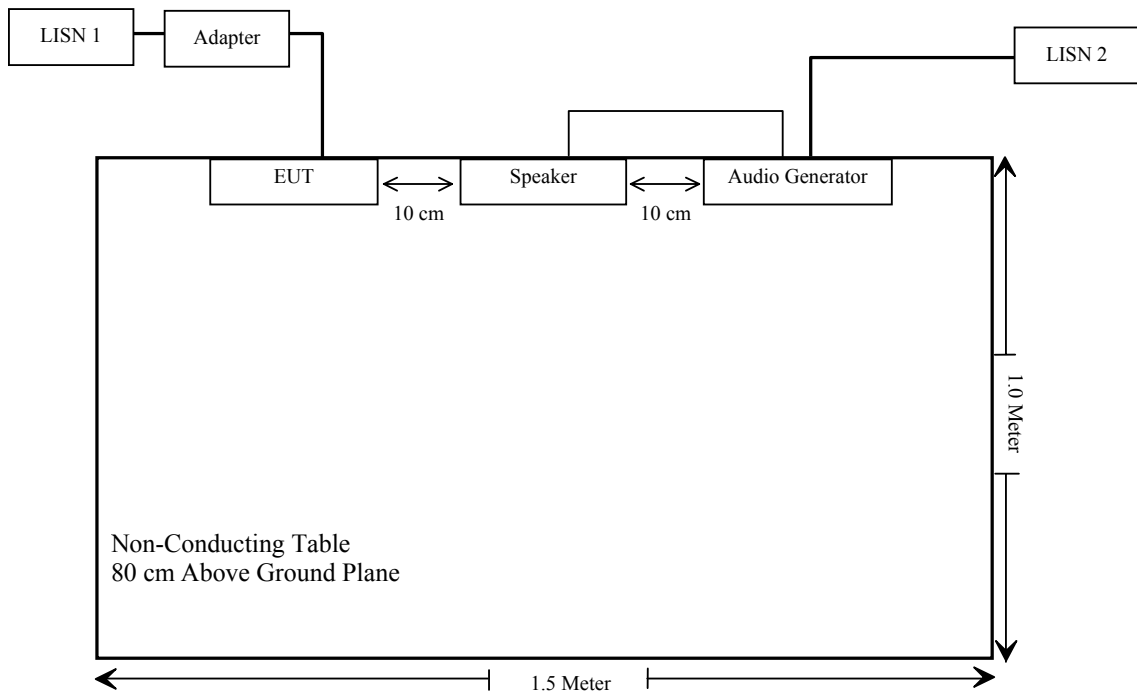
Equipment Modifications

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) §15.249(d)	Radiated Emission and Out of band emission	Compliant*

* Within measurement uncertainty

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

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

Test Result: Pass

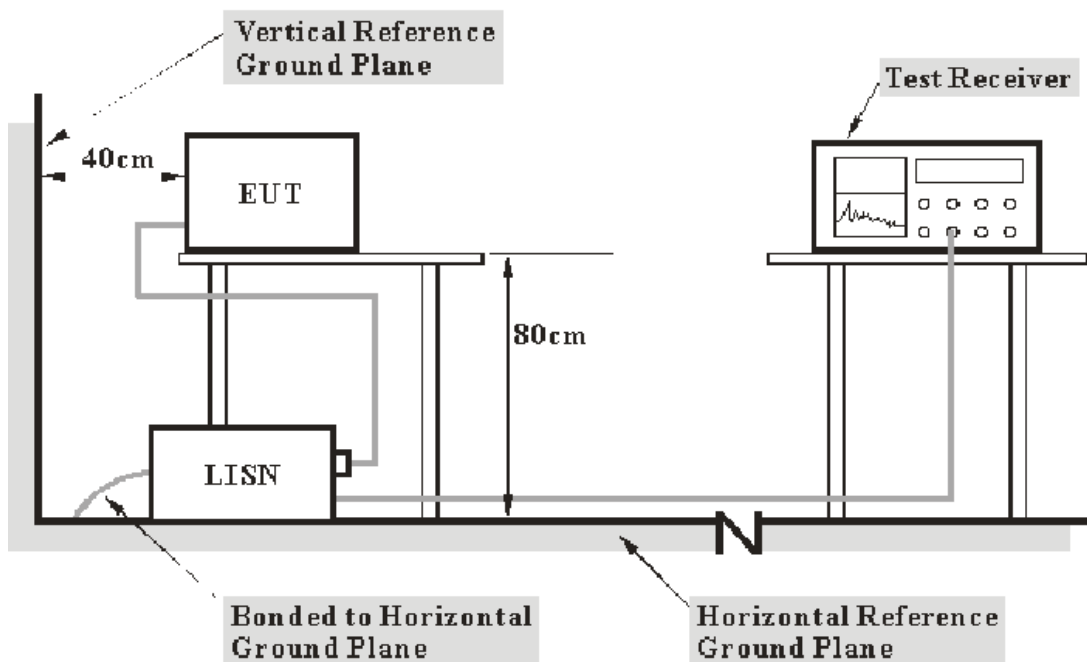
§15.207 - CONDUCTED EMISSION

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 spacing between the peripherals was 10 cm.

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	ESCI	100028	2005-8-17	2006-8-17
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 Mode (High Channel): -7.92 dB at 0.370 MHz in the Live conductor mode.**
- Transmitting Mode (Middle Channel): -7.32 dB at 0.370 MHz in the Live conductor mode.**
- Transmitting Mode (Low Channel): -10.32 dB at 0.370 MHz in the Live conductor mode.**

Test Data**Environmental Conditions**

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

The testing was performed by Louise Lu on 2006-6-9~2006-6-12.

Test mode: Transmitting (High Channel)

LINE CONDUCTED EMISSIONS				FCC PART 15 .207	
Frequency MHz	Amplitude dB μ V	Detector QP/AV	Phase Live/Neutral	Limit dB μ V	Margin dB
0.370	40.58	AV	Live	48.50	-7.92
0.430	38.75	AV	Live	47.25	-8.50
0.922	35.05	AV	Live	46.00	-10.95
0.986	34.61	AV	Live	46.00	-11.39
0.370	37.04	AV	Neutral	48.50	-11.46
0.430	35.71	AV	Neutral	47.25	-11.54
0.306	38.23	AV	Live	50.08	-11.85
0.326	36.11	AV	Live	49.55	-13.44
0.242	38.17	AV	Neutral	52.03	-13.86
0.274	36.65	AV	Neutral	51.00	-14.35
0.310	34.83	AV	Neutral	49.97	-15.14
0.334	34.06	AV	Neutral	49.35	-15.29
0.370	42.77	QP	Neutral	58.50	-15.73
0.370	42.51	QP	Live	58.50	-15.99
0.430	40.76	QP	Live	57.25	-16.49
0.490	38.52	QP	Neutral	56.17	-17.65
0.974	38.18	QP	Neutral	56.00	-17.82
0.334	40.90	QP	Neutral	59.35	-18.45
0.310	40.62	QP	Neutral	59.97	-19.35
0.306	40.58	QP	Live	60.08	-19.50
0.246	42.25	QP	Neutral	61.89	-19.64
1.050	34.55	QP	Live	56.00	-21.45
0.246	38.72	QP	Live	61.89	-23.17
29.754	12.47	QP	Live	60.00	-47.53

Test mode: Transmitting (Middle 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
0.370	41.18	AV	Live	48.50	-7.32
0.430	38.82	AV	Live	47.25	-8.43
0.986	35.79	AV	Live	46.00	-10.21
0.926	35.05	AV	Live	46.00	-10.95
0.310	38.45	AV	Live	49.97	-11.52
0.370	36.90	AV	Neutral	48.50	-11.60
0.430	35.28	AV	Neutral	47.25	-11.97
0.330	36.76	AV	Live	49.45	-12.69
0.306	34.85	AV	Neutral	50.08	-15.23
0.370	42.98	QP	Live	58.50	-15.52
0.370	42.92	QP	Neutral	58.50	-15.58
0.430	41.11	QP	Neutral	57.25	-16.14
0.242	35.85	AV	Neutral	52.03	-16.18
0.274	34.48	AV	Neutral	51.00	-16.52
0.430	40.69	QP	Live	57.25	-16.56
0.330	32.74	AV	Neutral	49.45	-16.71
0.926	37.36	QP	Live	56.00	-18.64
0.310	40.61	QP	Live	59.97	-19.36
0.330	39.98	QP	Live	59.45	-19.47
0.330	39.25	QP	Neutral	59.45	-20.20
0.246	41.15	QP	Neutral	61.89	-20.74
0.274	39.68	QP	Neutral	61.00	-21.32
0.242	37.91	QP	Live	62.03	-24.12
0.186	37.06	QP	Neutral	64.21	-27.15

Test mode: Transmitting (Low Channel)

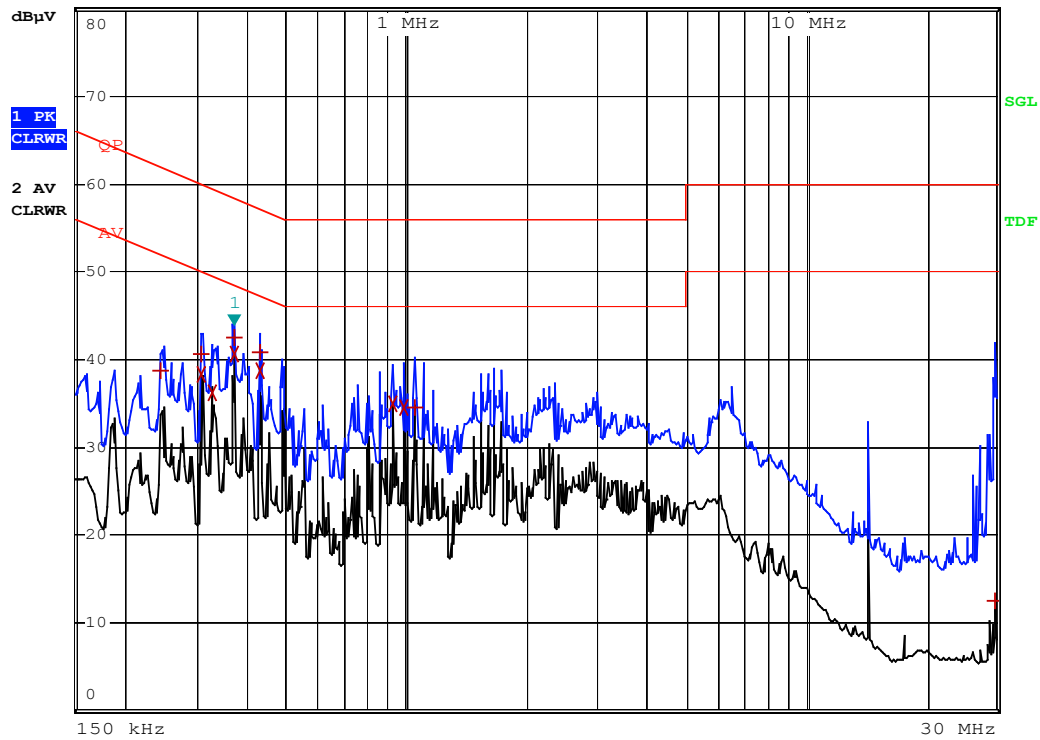
Frequency MHz	LINE CONDUCTED EMISSIONS			FCC PART 15 .207	
	Amplitude dB μ V	Detector QP/AV	Phase Live/Neutral	Limit dB μ V	Margin dB
0.370	38.18	AV	Live	48.50	-10.32
0.430	36.24	AV	Live	47.25	-11.01
0.494	32.95	AV	Live	46.10	-13.15
0.306	35.94	AV	Live	50.08	-14.14
0.330	33.52	AV	Live	49.45	-15.93
0.982	29.61	AV	Neutral	46.00	-16.39
0.370	41.48	QP	Live	58.50	-17.02
0.370	31.43	AV	Neutral	48.50	-17.07
14.318	32.92	AV	Live	50.00	-17.08
0.430	39.56	QP	Live	57.25	-17.69
0.986	37.97	QP	Live	56.00	-18.03
0.274	31.44	AV	Neutral	51.00	-19.56
0.430	37.17	QP	Neutral	57.25	-20.08
0.370	38.27	QP	Neutral	58.50	-20.23
0.246	31.53	AV	Neutral	51.89	-20.36
0.490	35.27	QP	Neutral	56.17	-20.90
0.330	38.48	QP	Live	59.45	-20.97
0.310	28.90	AV	Neutral	49.97	-21.07
0.310	38.88	QP	Live	59.97	-21.09
0.330	27.26	AV	Neutral	49.45	-22.19
0.310	36.30	QP	Neutral	59.97	-23.67
0.274	37.18	QP	Neutral	61.00	-23.82
0.330	35.06	QP	Neutral	59.45	-24.39
0.150	34.22	QP	Live	66.00	-31.78

Plot(s) of Test Data

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



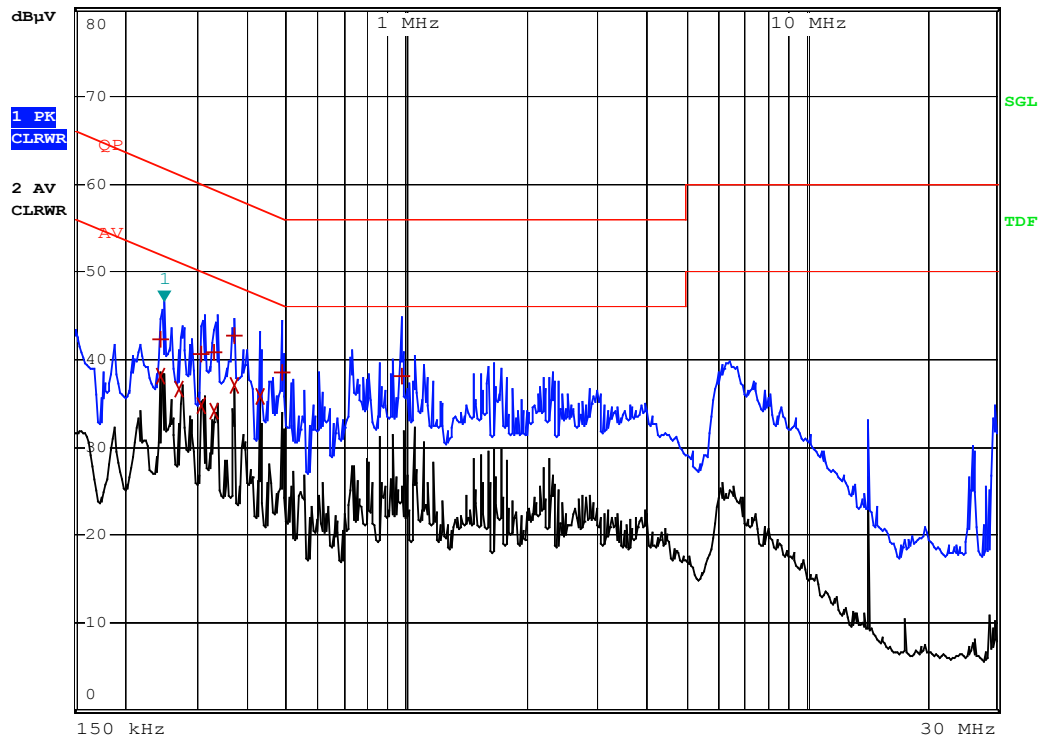
RBW 9 kHz Marker 1 [T1]
MT 1 s 44.04 dBμV
Att 10 dB AUTO PREAMP OFF 370.00000000 kHz



Lorex 2.4GHz Wireless Camera M/N: SG8840 transmitti
ng High channel L
Date: 12.JUN.2006 11:07:40



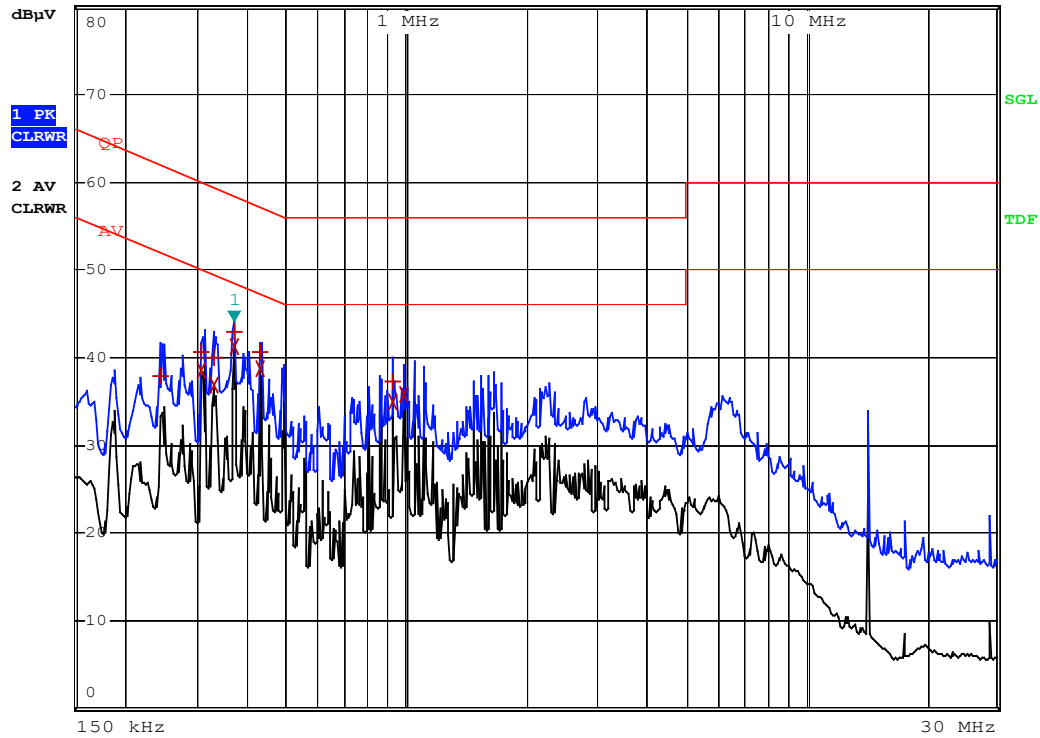
RBW 9 kHz Marker 1 [T1]
MT 1 s 46.67 dBμV
Att 10 dB AUTO PREAMP OFF 246.00000000 kHz



Lorex 2.4GHz Wireless Camera M/N: SG8840 transmitti
ng High channel N
Date: 12.JUN.2006 11:03:33



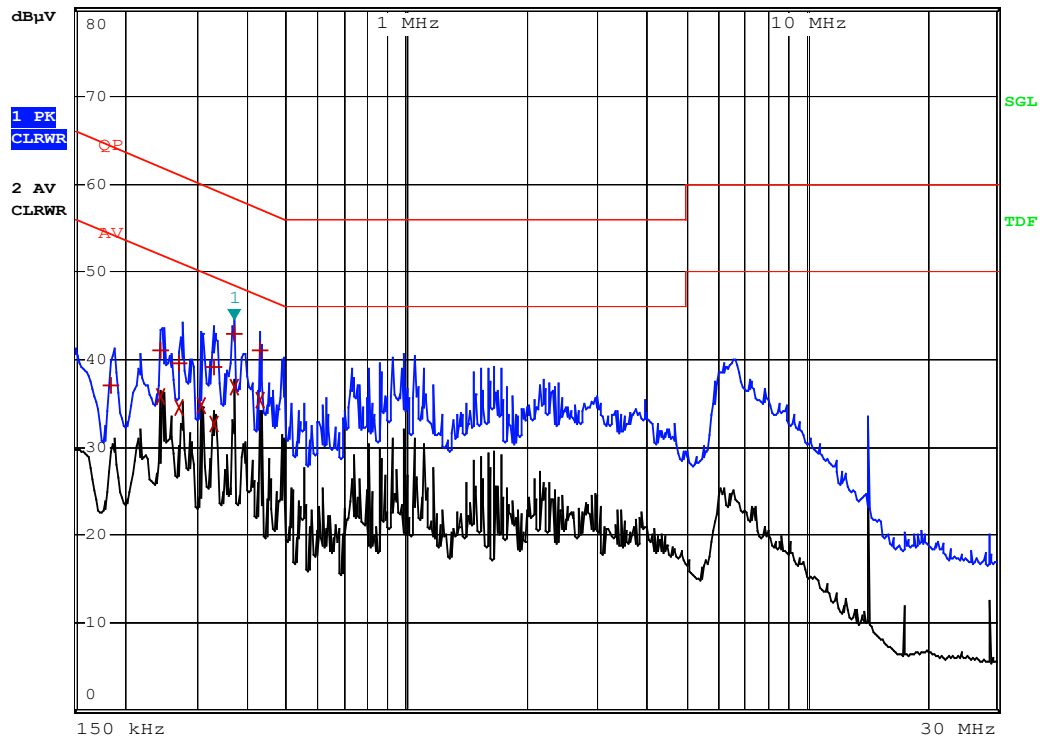
RBW 9 kHz Marker 1 [T1]
MT 1 s 44.28 dBμV
Att 10 dB AUTO PREAMP OFF 370.00000000 kHz



Lorex 2.4GHz Wireless Camera M/N: SG8840 transmitti
ng middle channel L
Date: 12.JUN.2006 10:48:18



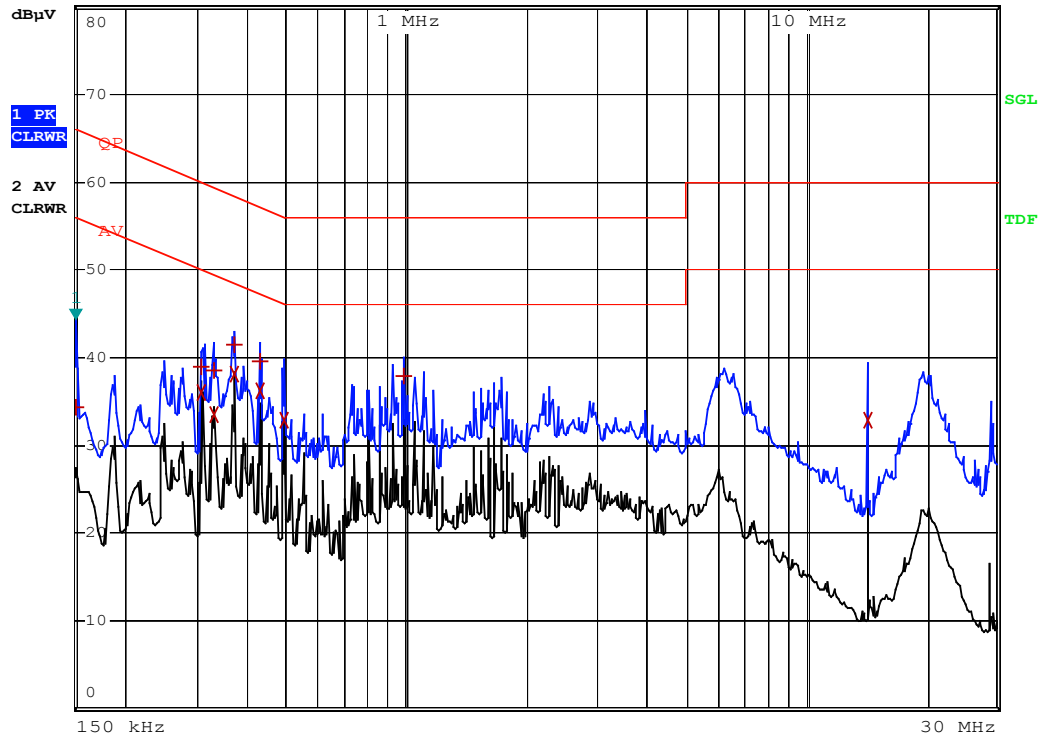
RBW 9 kHz Marker 1 [T1]
MT 1 s 44.66 dBμV
Att 10 dB AUTO PREAMP OFF 370.00000000 kHz



Lorex 2.4GHz Wireless Camera M/N: SG8840 transmitti
ng middle channel N
Date: 12.JUN.2006 10:52:04



RBW 9 kHz Marker 1 [T1]
MT 1 s 44.39 dBμV
Att 10 dB AUTO PREAMP OFF 150.00000000 kHz



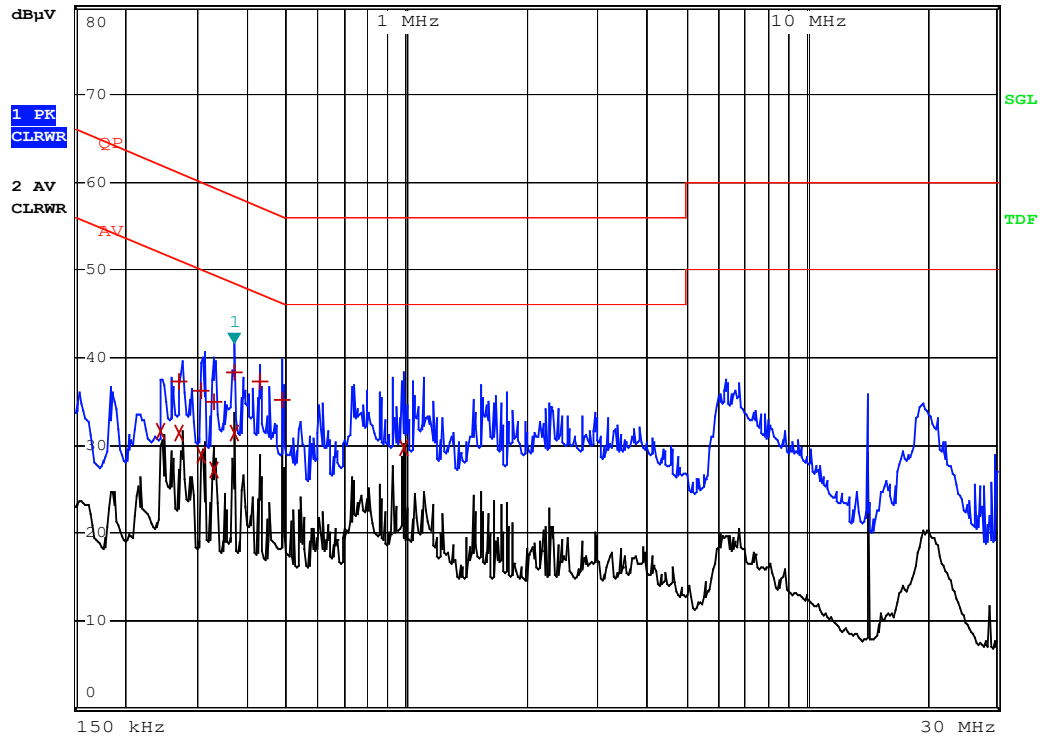
Lorex 2.4GHz Wireless Camera M/N: SG8840 Low channel

L

Date: 9.JUN.2006 14:03:55



RBW 9 kHz Marker 1 [T1]
MT 1 s 41.71 dBμV
Att 10 dB AUTO PREAMP OFF 370.00000000 kHz



Lorex 2.4GHz Wireless Camera M/N: SG8840 Low channel

N

Date: 9.JUN.2006 13:58:32

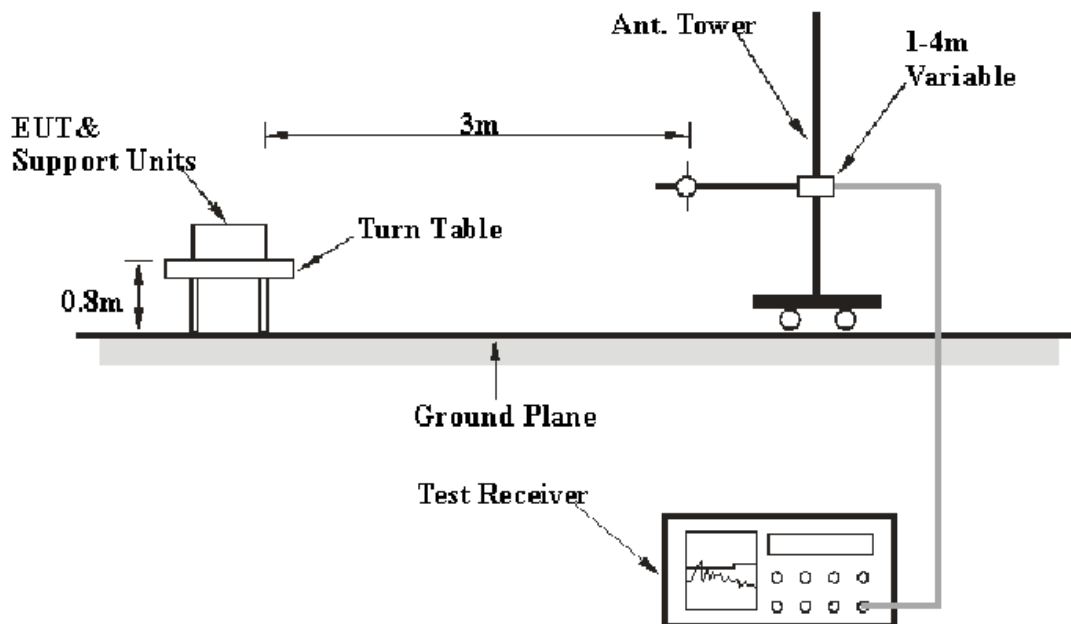
§15.205 §15.209(a) §15.249(a) §15.249(d) - RADIATED EMISSION AND OUT OF BAND EMISSION

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

The spacing between the peripherals was 10 cm.

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	2005-8-17	2006-8-17
HP	Amplifier	HP8447E	1937A01046	2005-8-17	2006-8-17
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	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 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 Quasi-peak 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 $\pm 7\text{dB}$ means the emission is 7dB below the limit. The equation for margin calculation is as follows:

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

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

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:

Transmitting Mode: **8.7 dB** at **42.956075 MHz** in the **Vertical** polarization.

Above 1000MHz:

Transmitting Mode (Low channel: Channel 1): **-2.13 dB** at **4828.0 MHz** in the **Vertical** polarization.
 Transmitting Mode (Middle channel: Channel 2): **-2.46 dB** at **4864.0 MHz** in the **Vertical** polarization.
 Transmitting Mode (High channel: Channel 4): **-3.72 dB** at **4936.00 MHz** in the **Vertical** polarization.

Test Data

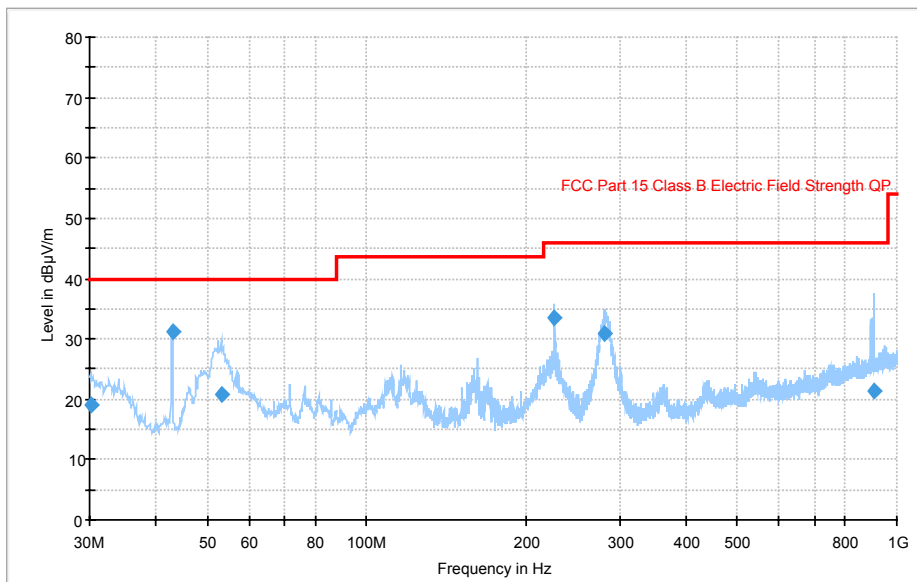
Environmental Conditions

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

The testing was performed by Deny Xiong on 2006-6-9.

Test mode: Transmitting

30-1000MHz: Auto Test (FCC 15 Class B)



Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity
30.256594	19.0	3000.000	120.000	205.0	H
42.956075	31.3	3000.000	120.000	101.0	V
53.214850	20.7	3000.000	120.000	100.0	V
226.194925	33.4	3000.000	120.000	101.0	V
280.581575	31.0	3000.000	120.000	113.0	V
907.377950	21.5	3000.000	120.000	134.0	V

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)	Comment
30.256594	79.0	-2.8	21.0	40.0	
42.956075	222.0	-15.2	8.7	40.0	
53.214850	259.0	-19.0	19.3	40.0	
226.194925	300.0	-13.7	12.6	46.0	
280.581575	208.0	-11.3	15.0	46.0	
907.377950	2.0	-0.2	24.5	46.0	

Test mode: Transmitting

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 15.249		
										Limit dBuV/m	Margin dB	Comment
Above 1 GHz (Low Channel: Channel 1)												
4828.0	49.33	AV	180	1.6	V	31.3	4.64	33.4	51.87	54	-2.13*	Harmonic
4828.0	45.50	AV	270	1.6	H	31.3	4.64	33.4	48.04	54	-5.96	Harmonic
4828.0	65.50	PK	250	1.0	V	31.3	4.64	33.4	68.04	74	-5.96	Harmonic
7242.0	38.17	AV	261	1.0	H	35.4	4.51	33.7	44.38	54	-9.62	Harmonic
6825.3	35.62	AV	45	1.0	H	36.8	4.60	33.7	43.40	54	-10.70	Spurious
7242.0	37.00	AV	90	1.2	V	35.4	4.51	33.7	43.21	54	-10.79	Harmonic
4828.0	60.50	PK	49	1.2	H	31.3	4.64	33.4	63.04	74	-10.96	Harmonic
7242.0	52.50	PK	180	1.3	H	35.4	4.51	33.7	58.71	74	-15.29	Harmonic
7242.0	51.33	PK	180	1.0	V	35.4	4.51	33.7	57.54	74	-16.46	Harmonic
6825.3	48.62	PK	45	1.2	H	36.8	4.60	33.7	56.40	74	-17.70	Spurious
2414.0	78.83	AV	263	1.4	H	27.4	3.61	35.0	74.84	94	-19.16	Fundamental
2414.0	74.50	AV	45	1.0	V	27.4	3.61	35.0	70.51	94	-23.49	Fundamental
2414.0	92.00	PK	20	1.2	H	27.4	3.61	35.0	88.01	114	-25.99	Fundamental
2414.0	89.67	PK	18	1.6	V	27.4	3.61	35.0	85.68	114	-28.32	Fundamental
1238.2	32.56	AV	90	1.0	V	25.0	2.50	36.0	24.10	54	-29.90	Spurious
1238.2	40.12	PK	180	1.2	V	25.0	2.50	36.0	31.60	74	-42.40	Spurious

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 15.249		
										Limit dBuV/m	Margin dB	Comment
Above 1 GHz (Middle Channel: Channel 2)												
4864.0	49.00	AV	180	1.6	V	31.3	4.64	33.4	51.54	54	-2.46*	Harmonic
4864.0	45.00	AV	109	1.2	H	31.3	4.64	33.4	47.54	54	-6.46	Harmonic
4864.0	64.67	PK	45	1.0	V	31.3	4.64	33.4	67.21	74	-6.79	Harmonic
7296.0	40.33	AV	45	1.0	H	35.4	4.51	33.7	46.54	54	-7.46	Harmonic
7296.0	38.00	AV	90	1.2	V	35.4	4.51	33.7	44.21	54	-9.79	Harmonic
4864.0	60.17	PK	109	1.2	H	31.3	4.64	33.4	62.71	74	-11.29	Harmonic
7525.6	34.67	AV	270	1.0	H	35.8	4.80	34.3	41.00	54	-13.00	Spurious
7296.0	53.83	PK	180	1.0	H	35.4	4.51	33.7	60.04	74	-13.96	Harmonic
7296.0	53.33	PK	90	1.2	V	35.4	4.51	33.7	59.54	74	-14.46	Harmonic
2432.0	82.33	AV	197	1.6	H	27.4	3.61	35.0	78.34	94	-15.66	Fundamental
7525.6	47.25	PK	60	1.2	H	35.8	4.80	34.3	53.50	74	-20.50	Spurious
2432.0	74.67	AV	182	1.2	V	27.4	3.61	35.0	70.68	94	-23.32	Fundamental
2432.0	93.67	PK	197	1.6	H	27.4	3.61	35.0	89.68	114	-24.32	Fundamental
1835.3	33.22	AV	45	1.2	V	28.4	2.80	35.0	29.40	54	-24.60	Spurious
2432.0	87.85	PK	182	1.2	V	27.4	3.61	35.0	83.86	114	-30.14	Fundamental
1832.6	43.28	PK	60	1.0	V	28.4	2.80	35.0	39.50	74	-34.50	Spurious

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 15.249		
										Limit dBuV/m	Margin dB	Comment
Above 1 GHz (High Channel: Channel 4)												
4936.00	47.13	AV	180	1.6	V	32.0	4.55	33.4	50.28	54	-3.72*	Harmonic
4936.00	45.12	AV	109	1.2	H	32.0	4.55	33.4	48.27	54	-5.73	Harmonic
7404.00	39.55	AV	45	1.0	H	35.3	4.75	33.7	45.90	54	-8.10	Harmonic
7404.00	39.33	AV	90	1.2	V	35.3	4.75	33.7	45.68	54	-8.32	Harmonic
4936.00	60.50	PK	45	1.0	V	32.0	4.55	33.4	63.65	74	-10.35	Harmonic
4936.00	59.33	PK	109	1.2	H	32.0	4.55	33.4	62.48	74	-11.52	Harmonic
5673.25	36.28	AV	90	1.0	V	33.9	4.70	34.4	40.50	54	-13.50	Spurious
7404.00	52.83	PK	180	1.0	H	35.3	4.75	33.7	59.18	74	-14.82	Harmonic
7404.00	52.33	PK	90	1.2	V	35.3	4.75	33.7	58.68	74	-15.32	Harmonic
2468.00	79.17	AV	127	1.6	H	27.4	3.61	35.0	75.18	94	-18.82	Fundamental
3356.18	33.46	AV	90	1.0	V	29.6	3.80	32.5	34.40	54	-19.60	Spurious
5673.25	47.52	PK	180	1.2	V	33.9	4.70	34.4	51.70	74	-22.30	Spurious
2468.00	74.83	AV	182	1.2	V	27.4	3.61	35.0	70.84	94	-23.16	Fundamental
3356.18	46.38	PK	180	1.2	V	29.6	3.80	32.5	47.30	74	-26.70	Spurious
2468.00	91.00	PK	127	1.6	H	27.4	3.61	35.0	87.01	114	-26.99	Fundamental
2468.00	85.33	PK	182	1.2	V	27.4	3.61	35.0	81.34	114	-32.66	Fundamental
1136.50	32.56	AV	60	1.2	H	23.3	1.20	36.0	21.10	54	-33.00	Spurious
1136.50	42.30	PK	60	1.0	H	23.3	1.20	36.0	30.80	74	-43.20	Spurious

* Within measurement uncertainty