

**EXHIBIT A**

[FCC Ref. 2.1033(b)(6)]

"Report of Measurements"

**LIST OF EXHIBITS**

Exhibit A(1)  
Exhibit A(2)-1 to -2  
  
Exhibit A(3)-1 to -3  
Exhibit A(4)

List of Exhibits  
15.205(c)/15.209 Spurious Radiated Emissions in Restricted  
Bands and Field Strength of Emissions  
Test Equipment List and Facility  
Test Set Up Photo

**15.205(c)/15.209**

**SPURIOUS RADIATED EMISSIONS IN RESTRICTED BANDS**

**Procedure**

The test procedure used was ANSI STANDARD C63.4-2003 and DA-00-705 using an appropriate spectrum analyzer, as listed in the Test Equipment List. The bandwidth (RBW) of the spectrum analyzer was 100KHz/120KHz up to 1GHz with an appropriate sweep speed. The RBW above 1.0GHz was = 1.0MHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the EUT was 24°C with a humidity of 60%.

**Requirements:**

Emissions that fall in the restricted bands (15.205) must be less than 54dB $\mu$ V/m

**Test Data:**

Refer to Exhibit A(2)-2

15.205(c)/15.209

**FIELD STRENGTH OF RADIATED EMISSIONS INCLUDING RESTRICTED BANDS****BASE UNIT**

Frequency Band MHz	Meter Reading (Peak) @3m dBμV/M	Meter Reading (Average) @3m dBμV/M	Antenna and Polarization	Cable & Antenna Factor	Peak F. S. dBμV/M	Average F. S. dBμV/M	Average FCC Limit	Margin dB
<b>Channel 1</b>								
5760.719	78.00	—	Horn V	39.48	117.48	—	—	—
3358.380	12.00	—	Horn V	35.44	47.44	—	54	-6.56
5878.05	34.00	—	Horn V	40.79	74.79	—	97.48	-22.69
11521.438	—							
<b>Channel 44</b>								
5799.069	77.00	—	Horn V	39.57	116.57	—	—	—
3358.38	12.00	—	Horn V	35.44	47.44	—	54	-6.56
5878.05	34.00	—	Horn V	40.79	74.79	—	96.57	-21.78
11598.138	—							
<b>Channel 88</b>								
5838.311	77.00	—	Horn V	39.66	116.66	—	—	—
3358.38	12.00	—	Horn V	35.44	47.44	—	54	-6.56
5878.05	34.00	—	Horn V	40.79	74.79	—	96.66	-21.87
11676.622	—							

1. If the peak meets the average limit, nothing further is required.
2. If the peak exceeds the average limit, then an average measurement is required (may be calculated) and must be below the average limit and also:
3. The peak measurement cannot exceed the average limit +20db.

**TEST FACILITY AND EQUIPMENT LIST**

**FACILITIES:**

Radiated      ANSI C63.4-2003 (FCC OET/55) open field 3 metre test range. This test range is protected from the cold and moisture by a non-conductive enclosure.

**EQUIPMENT**

Anritsu 2601A Spectrum Analyzer  
Advantest R3261A Spectrum Analyzer  
Hewlett-Packard RF generator # 8640 B with an 002 doubler  
A.H. Systems biconical antenna; ..... 20 MHz to 330 MHz  
A.H. Systems log periodic antenna; ..... 300 MHz to 1.8 GHz  
Compliance Design P950 Preamp (16 dB) ... 25 MHz to 1.0 GHz

**NOTE:**

The Anritsu 2601A Spectrum Analyzer and the Advantest R3261A Spectrum Analyzer are calibrated annually, and that calibration is directly traceable to the National Research Council of Canada. (NRC) This equipment is only used by qualified technicians and only for the purpose of EMI measurements. The three metre test range has been carefully evaluated to the ANSI document C63.4-2003 and will be remeasured for reflections and losses every three years.

**ADDITIONAL TEST EQUIPMENT LIST**

1. Spectrum Analyzer: HP 8591EM, S/N 3639A00995, (9KHz - 1.8GHz), Calibration Due June 2006
2. Spectrum Analyzer: ANRITSU 2601A, S/N MT64544, (10KHz - 2.2GHz), Calibration Due June 2006
3. Spectrum Analyzer: IFR AN940, S/N 635001039, (9KHz - 26.5GHz), Calibration Due April 2006
4. Preamp: HP 8449B, S/N 3008A00378, (1 - 26.5GHz), Calibration Due August 2006
5. Horn Antenna: Q-PAR 6878/24, S/N 1721, (1.5-18GHz)
6. Horn Antenna: A. H. Systems SAS 572, S/N 164 (18 - 26.5GHz)
7. Line Impedance Stabilization Network.: Marstech, Calibration Due July 2006
8. Horn Antenna: Radar System (Flange 3/4" Square) MIL F 3922/68 (26.5 - 40GHz)
9. OML Mixer: M28HWD, S/N Ka31114-1 (26.5 - 40GHz), Calibration Due Nov. 2005
10. OML Diplexer: DPL.313A (Unit plugs into M28HWD)
11. Semflex Cable: Used with M28HWD and DPL.313A

**FEDERAL COMMUNICATIONS COMMISSION**

Laboratory Division  
7435 Oakland Mills Road  
Columbia, MD 21046

August 22, 2003

Electrohome Electronics Ltd.  
809 Wellington St. N.  
Kitchener, Ontario, N2G 4J6  
Canada

Registration Number: 90578

Attention: Tuat Huynh

Rc: Measurement facility located at Roseville  
3 meter site  
Date of Renewal: August 22, 2003

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website [www.fcc.gov](http://www.fcc.gov) under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,

  
Ms. Phyllis Parrish  
Information Technician

FCC ID: G9H2-5831A (Base)  
Marstech Report No. 25224D  
EXHIBIT A(3)-3