



**GOOD TECHNOLOGY TEST REPORT**  
**FOR THE**  
**WIRELESS EMAIL AND CALENDAR DEVICE, G100**  
**FCC PART 24, PART 90 AND PART 15 SUBPART B**  
**SECTIONS 15.107 AND 15.109 CLASS B**  
**COMPLIANCE**

**DATE OF ISSUE: APRIL 1, 2002**

**PREPARED FOR:**

Good Technology  
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Sunnyvale, CA 94089

W.O. No.: 77909

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Date of test: March 1-23, 2002

**Report No.: FC02-011**

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**CKC Laboratories, Inc. has received Certificates of Accreditation from the following agencies:**

A2LA (USA); BSMI (Taiwan); Nemko (Norway); and GOST (Russia).

**CKC Laboratories, Inc has received test site Registration Acceptance from the following agencies:**

FCC (USA); VCCI (Japan); and Industry Canada.

**CKC Laboratories, Inc. has received Letters of Acceptance through an MRA for the following agencies:**

ACA/NATA (Australia); SABS (South Africa); SWEDAC (Sweden); Radio Communications Agency (RA); HOKLAS (Hong Kong); Bakom (Swiss); BIPT (Belgium); Denmark Telestyrelsen; RvA (Netherlands); SEE (Luxembourg) SITTEL (Bolivia); and UKAS (UK).

## ADMINISTRATIVE INFORMATION

**DATE OF TEST:** March 1-23, 2002

**DATE OF RECEIPT:** March 1, 2002

**PURPOSE OF TEST:** To demonstrate the compliance of the Wireless Email and Calendar Device, G100 with the requirements for FCC Part 24, Part 90 and Part 15 Subpart B Sections 15.107 and 15.109 Class B devices.

**TEST METHOD:** FCC Part 24 and Part 90, ANSI C63.4 (1992)

**FREQUENCY RANGE TESTED:** 10 kHz – 9.02 GHz

**MANUFACTURER:** Good Technology  
1032 Morse Ave.  
Sunnyvale, CA 94089

**REPRESENTATIVE:** Louie Sanguinetti

**TEST LOCATION:** CKC Laboratories, Inc.  
480 Los Viboras Road  
Hollister, CA 95023

## SUMMARY OF RESULTS

As received, the Good Technology Wireless Email and Calendar Device, G100 was found to be fully compliant with the following standards and specifications:

United States	Canada
Receiver Section	
15.109	ICES-003 / RSS 119 (8) / RSS 134 (8)
15.107	ICES-003
ANSI C63.4 (1992) method	ANSI C63.4 (1992) method
Transmitter Characteristics	
24.132(a) / 90.635(d)	RSS 119 (6.2) / RSS 134 (6.2)
24.131 / 90.210(i)	RSS 119 (5.5) / RSS 134 (5.5)
24.133 / 90.210(i)	RSS 119 (6.4) / RSS 134 (6.3)

Industry of Canada File No. IC 3171-B

## CONDITIONS FOR COMPLIANCE

No modifications to the EUT were necessary to comply.

## APPROVALS

### QUALITY ASSURANCE:



Steve Behm, Manager of Engineering Services



Joyce Walker, Quality Assurance Administrative Manager



Christine Nicklas, EMC/Lab Manager

### TEST PERSONNEL:



Conan T. Boyle, EMC Engineer



Art Rice, Test Engineer



Matthew Pettersen, Test Engineer

## EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The EUT tested by CKC Laboratories was a production unit. Handheld device which allows users to wirelessly interact with their email and calendar.

## EQUIPMENT UNDER TEST

### Wireless Email and Calendar Device

Manuf: Good Technology  
Model: G100  
Serial: JW020800117 & JW020800123  
FCC ID: PX3G100

## PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

### Laptop PC

Manuf: HP  
Model: Pavilion N5445  
Serial: TW14218076  
FCC ID: DoC

### Printer AC Adapter

Manuf: HP  
Model: C2175A  
Serial: 220995  
FCC ID: DoC

### Printer

Manuf: HP  
Model: C2184A  
Serial: MY63J1T1KZ  
FCC ID: B94C2184X

### Keyboard

Manuf: Micron  
Model: RT2258W  
Serial: 80183081  
FCC ID: AQ6-MTN71BZ15DIP

### AC Adapter for PC

Manuf: HP  
Model: f1781a  
Serial: 01316645  
FCC ID: DoC

### Monitor

Manuf: Micron  
Model: RMD5L11CM  
Serial: 8205L1127503  
FCC ID: GWGR5LXX

### AC Adapter for G100

Manuf: ANAM  
Model: TA3061-US  
Serial: 0201000080AA  
FCC ID: DoC

## **TEMPERATURE AND HUMIDITY DURING TESTING**

The temperature during testing was within +15°C and + 35°C.  
The relative humidity was between 20% and 75%.

### **2.1033(c)(3) USER'S MANUAL**

The necessary information is contained in a separate document.

### **2.1033 (c)(4) TYPE OF EMISSIONS**

13K6F1D

### **2.1033(c)(5) FREQUENCY RANGE**

The G100 transmit frequency range is 896-901MHz when operating under FCC Part 90 rules and 901-902MHz when operating under FCC Part 24 rules.

### **2.1033(c)(6) OPERATING POWER**

The maximum operating RF output power (ERP) was measured by CKC Labs to be 5.85 Watts when operating from 896-901MHz under Part 90 rules and 2.67Watts when operating from 901-902MHz under Part 24 rules. The output power may be reduced from the maximum in fixed steps of 3dB, 6dB, and 9dB based on the interaction with the Mobitex wireless network. When operating on frequencies covered under Part 90, all four power levels (0dB, -3dB, -6dB, -9dB from the maximum) are used. When operating on frequencies covered under Part 24, only three of the power levels are used (-3dB, -6dB, and -9dB) and the device is not capable of transmitting at maximum power by permanent firmware installed in the device. The output power cannot be varied by the user.

### **2.1033(c)(7) MAXIMUM POWER RATING**

The maximum power rating as defined in § 24.132(a) is 7 watts ERP. The maximum power rating as defined under Part 90 is 100watts.

### **2.1033(c)(8) DC VOLTAGES**

The transmitter in the G100 is powered by a 3.6V LiIon battery internal to the unit. The LiIon battery supplies a DC voltage of 3.6V and a current of 2000mA maximum to the final RF power amplifier stage.

### **2.1033(c)(9) TUNE-UP PROCEDURE**

The necessary information is contained in a separate document.

### **2.1033(c)(10) SCHEMATICS AND CIRCUITRY DESCRIPTION**

The necessary information is contained in a separate document.

### **2.1033(c)(11) LABEL AND PLACEMENT**

The necessary information is contained in a separate document.

### **2.1033(c)(12) SUBMITTAL PHOTOS**

The necessary information is contained in a separate document.

### **2.1033(c)(13) MODULATION INFORMATION**

The necessary information is contained in a separate document.

**2.1033(c)(14)/2.1046/24.132(a)/90.635(d) / - RF POWER OUTPUT**

See Appendix A for all setup photos.

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A.	2049A01408	06/14/2001	06/14/2002	313
S.A. Display	2112A02174	06/14/2001	06/14/2002	313
QP Adapter	2430A00541	06/14/2001	06/14/2002	313
Hol-B 3M Rad. cable .01-1000MHz	rad_cab_3M_01_hol-b.01-1000MHz	09/13/2001	09/13/2002	0
Bilog, Chase CBL6111C	2630	10/10/2001	10/10/2002	0

***Test Conditions / Notes Part 24.132:***

The EUT is a handheld wireless email and calendar device with USB port. The transmitter operates in the 896-902 MHz range. The channel spacing is 12.5 kHz. The EUT is in a test mode that causes it to transmit with no modulation of the carrier. It transmits 50 mS every 0.5 seconds. The spec limit of 133.7 dBuV is equivalent to 7 watts ERP. Note 1) The EUT position and configuration is noted on the reading. Note 2) New revision unit with new shield can over the power amplifier, harmonic filter and switch section. As noted, the unit is modified with component changes to the PA section to reduce harmonic emissions. The changes are: C280, C276, C73, C281=3.9 pf. C77, C71, C72, C277=1.8 pf. 10 nH added between pin 14, 15, 16 of U14 and Vpa. 1 pf added from pin 14, 15, 16 of U14 to ground. Note 3) This test is to determine worst case configuration and orientation at the transmit fundamental signal. Note 4) The EUT is transmitting on the middle channel for part 24 at 901.500 MHz. Note 5) Styrofoam spacers are put under the unit to prevent the wooden table from affecting the antenna.

CFR 47 Part 24.132(a) mobile transmitter calculations: Model G100

Transmitter Power Limitations Calculations:

Maximum transmit level measured was 129.5 dBuV/m.

Convert to linear V/m:

$$\text{inv log}(129.5/20) \cdot .000001 = 2.9854 \text{ V/m}$$

Calculate ERP:

$$\text{ERP} = (\text{Ed})^2 / 30 \quad [\text{distance } d=3 \text{ meters}]$$

$$\text{ERP} = (2.9854 \cdot 3)^2 / 30$$

$$\text{ERP} = 80.2135 / 30$$

$$\text{ERP} = 2.674 \text{ watts (7 watts is allowable in Part 24)}$$

Spec Limit Calculations:

$$\text{ERP} = (\text{Ed})^2 / 30 \quad (\text{ERP} = 7 \text{ watts, } d = 3 \text{ meters})$$

$$(\text{Ed})^2 = \text{ERP} \cdot 30$$

$$\text{Ed} = (\text{ERP} \cdot 30)^{1/2}$$

$$\text{E} = (\text{ERP} \cdot 30)^{1/2} / d$$

$$\text{E} = (7 \cdot 30)^{1/2} / 3$$

$$\text{E} = (210)^{1/2} / 3$$

$$\text{E} = 4.83 \text{ V/m}$$

$$\text{E} = 4,830,000 \mu\text{V/m}$$

$20 \log(4,830,000 \mu\text{V/m}) = 133.7 \text{ dB}\mu\text{V/m}$  (specification limit used on CKC data sheets to calculate margin)



**Test Conditions / Notes Part 90.635(d):**

The EUT is a handheld wireless email and calendar device with USB port. The transmitter operates in the 896-902 MHz range. The channel spacing is 12.5 kHz. The EUT is in a test mode that causes it to transmit with no modulation of the carrier. It transmits 50 mS every 0.5 seconds. The spec limit of 147.4 dBuV is equivalent to 100 watts radiated from a dipole. Note 1) The EUT position and configuration is noted on the reading. Note 2) New revision unit with new shield can over the power amplifier, harmonic filter and switch section. Note 3) This test is to determine worst case configuration and orientation at the transmit fundamental signal. Note 4) The EUT is transmitting on the low (896.0125) or high channel (900.9875) for part 90. Note 5) Styrofoam spacers are put under the unit to prevent the wooden table from affecting the antenna.

CFR 47 Part 90.635(d) mobile transmitter calculations: Model G100

Transmitter Power Limitations Calculations:

Maximum transmit level measured at 896.0125 MHz was 132.6 dB $\mu$ V/m.

Convert to linear V/m:

$$\text{inv log}(132.6/20) * .000001 = 4.2658 \text{ V/m} = E$$

Calculate P:

$$P = (Ed)^2 / 30G \text{ [assume worst case } G = 1.0, \text{ distance } d=3 \text{ meters]}$$

$$P = (4.2658*3)^2 / 30 * 1$$

$$P = 163.773 / 30$$

$$P = 5.459 \text{ watts (100 watts is allowable in Part 90 for mobile transmitters)}$$

Maximum transmit level measured at 900.9875 MHz was 132.9 dB $\mu$ V/m.

Convert to linear V/m:

$$\text{inv log}(132.9/20) * .000001 = 4.4157 \text{ V/m} = E$$

Calculate P:

$$P = (Ed)^2 / 30G \text{ [assume worst case } G = 1.0, \text{ distance } d=3 \text{ meters]}$$

$$P = (4.4157*3)^2 / 30 * 1$$

$$P = 175.4857 / 30$$

$$P = 5.850 \text{ watts (100 watts is allowable in Part 90 for mobile transmitters)}$$

Spec Limit Calculations:

$$(Ed)^2 / 30G = P \text{ [where } P=100 \text{ watts, } G = 1.64 \text{ for dipole, and } D = 3\text{m]}$$

$$(Ed)^2 = P * 30 * G$$

$$Ed = (P * 30 * G)^{1/2}$$

$$E = (P * 30 * G)^{1/2} / d$$

$$E = (100 * 30 * 1.64)^{1/2} / 3$$

$$E = (4920)^{1/2} / 3$$

$$E = 23.38 \text{ V/m}$$

$$E = 23,380,000 \mu\text{V/m}$$

$20 \log(23,380,000 \mu\text{V/m}) = 147.38 \text{ dB}\mu\text{V/m}$  (specification limit used on CKC data sheets to calculate margin)

**2.1033(c)(14)/2.1047(b)/24.313/90.211 - MODULATION CHARACTERISTICS - AUDIO FREQUENCY RESPONSE**

Not applicable to this unit.

**2.1033(c)(14)/2.1047(b)/24.313/90.211 MODULATION CHARACTERISTICS – MODULATION LIMITING RESPONSE**

Not applicable to this unit.

**2.1033(c)(14)/2.1049(i)/24.131/90.210(i) - OCCUPIED BANDWIDTH**

Customer supplied data will be provided in a separate document.

**2.1033(c)(14)/2.1051/ 24.133/90.210(i) - SPURIOUS EMISSIONS AT ANTENNA TERMINAL**

Not applicable to this unit.

## **2.1033(c)(14)/2.1053/24.133/90.210(i) - FIELD STRENGTH OF SPURIOUS RADIATION**

### ***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
High Pass Filter, 1.5GHz	3643A00026	06/08/2001	06/08/2002	2116
S.A. HP8596E	3346A00209	07/06/2001	07/06/2002	784
Ant., Horn Emco 3115	9602-4660	02/15/2002	02/15/2003	2113
Cable, H-B 3meter Rad. 1-13.5GHz	Hol-B 3-m rad cable-01-1GHz-13.5GHz	10/03/2001	10/03/2002	0
Preamp, HF HP83017A	3123A00283	05/14/2001	05/14/2002	1271
Ant., Bilog, Chase CBL6111C	2630	10/10/2001	10/10/2002	0
Ant., Mag loop, Emco 6502	2078	08/17/2001	08/17/2002	432
Cable, H-B 3M Rad. .01-1000MHz	rad_cab_3M_01_hol-b.01-1000MHz	09/13/2001	09/13/2002	0
S.A. Display	2112A02174	06/14/2001	06/14/2002	2509
S.A. RF Section	2049A01408	06/14/2001	06/14/2002	313
QP Adapter	2430A00541	06/14/2001	06/14/2002	2508
Preamp, HP 8447F	2944A03850	03/08/2002	03/08/2003	501

**See Appendix A for all setup photos.**

### ***Test Conditions / Notes Part 24.133:***

The EUT is a handheld wireless email and calendar device with a USB port. The transmitter operates in the 896-902 MHz range. The EUT is transmitting on the middle channel (901.500) for part 24. The channel spacing is 12.5 kHz. The EUT is in a test mode that causes it to transmit with no modulation of the carrier. It transmits 50mS every 0.5 seconds. Note 1) Spec limit is  $43 + 10 \log P = 82.2$  dBuV/m. Video Bandwidth above 1 GHz is 1 MHz unless noted. Note 2) The unit position and configuration are noted on the reading. Note 3) Styrofoam spacers are put under the unit to prevent the wooden table from affecting the antenna. Note 4) New revision unit with new shield can over the power amplifier, harmonic filter and switch section. Testing S/N 123, fully modified with component changes to the PA section to reduce harmonic emissions. The changes are: C280, C276, C73, C281=3.9 pf. C77, C71, C72, C277=1.8 pf. 10 nH added between pin 14, 15, 16 of U14 and Vpa. 1 pf added from pin 14, 15, 16 of U14 to ground. Note 5) Scan below 1 GHz was done in the worst case configuration found for signals above 1 GHz. Scanned 10 kHz to 9.02 GHz for spurious emissions.

FCC CFR 47 Part 2.1053 & 24.133											
Good Technology model G100 ( worst case from 3 configurations)											
CFR 47 Part 2.1053 & 24.133 Measurements required: Field strength of spurious radiation.											
Operating Channel - 901.500 MHz											
Polarity	Freq (MHz)	Reading in dBuV	PreAmp Factor	Cable +Filter Factor	Horn Antenna	Corrected E (dBuV/M)	V/M	ERP (Watts)	Spec Limit Watts	Pass or Fail	
Horizontal	3606.00	62.70	-38.00	9.7	31.5	65.90	0.001972423	0.000001167	0.000050000	Pass	USB, horizontal
Horizontal	3606.00	62.50	-38.00	9.7	31.5	65.70	0.001927525	0.000001115	0.000050000	Pass	Standalone, horizontal
Vertical	5409.00	53.20	-36.50	13.4	34.9	65.00	0.001778279	0.000000949	0.000050000	Pass	USB, vertical
Horizontal	4507.50	58.50	-37.80	11.4	32.6	64.70	0.001717908	0.000000885	0.000050000	Pass	USB, horizontal
Horizontal	1803.00	65.20	-38.40	9.3	26.6	62.70	0.001364583	0.000000559	0.000050000	Pass	AC adapter, horizontal
Horizontal	2704.50	61.50	-38.10	8.5	28.7	60.60	0.001071519	0.000000344	0.000050000	Pass	Standalone, vertical
Notes: Frequency range investigated was from 10 kHz to 9.02 GHz. All spurious and harmonic emissions were investigated. All emissions detected that were less than 20dB below the permissible value were reported. CKC data sheet file name is fc24se56c-tx spurious scan+max.DAT.											

CALCULATIONS	
Note: The data taken is the radiated power of each spurious emission with reference to the unmodulated carrier power output of the transmitter.	
The 43+10log(P) dB "out of band" attenuation equates to a 50 uW limit for any P. The following equations establish this amplitude limit for spurious emissions.	
Spurious Emissions Limit (dBW) = 10logP - (43+10logP) = -43 dBW.	
Spurious Emissions Limit (W) = 10 <sup>(-43/10)</sup> = 50 * 10 <sup>-6</sup> W.	
<b>ERP Calculations</b> ERP = (Ed) <sup>2</sup> /30 E = V/m d= distance	<b>Conversion of dBuV/m to V/m</b> [invlog(Reading in dBuV/m/20)]*.000001 = V/m

**Test Conditions / Notes Part 90.210:**

The EUT is a handheld wireless email and calendar device with a USB port. The transmitter operates in the 896-902 MHz range. The EUT is transmitting on the low channel (896.0125) or high channel (900.9875) for part 90. The channel spacing is 12.5 kHz. The EUT is in a test mode that causes it to transmit with no modulation of the carrier. It transmits 50mS every 0.5 seconds. Note 1) Spec limit is  $50 + 10 \log P = 75.2$  dBuV/m. Video Bandwidth above 1 GHz is 1 MHz unless noted. Note 2) The unit position and configuration are noted on the reading. Note 3) Styrofoam spacers are put under the unit to prevent the wooden table from affecting the antenna. Note 4) Testing S/N 123, fully modified with component changes to the PA section to reduce harmonic emissions. The changes are: C280, C276, C73, C281=3.9 pf. C77, C71, C72, C277=1.8 pf. 10 nH added between pin 14, 15, 16 of U14 and Vpa. 1 pf added from pin 14, 15, 16 of U14 to ground. Note 5) Scan below 1 GHz was done in the worst case configuration found for signals above 1 GHz.

FCC CFR 47 Part 2.1053 & 90.210(j)										
Good Technology model G100 (worst case 3 configurations)										
CFR 47 Part 2.1053 & 90.210(j) Measurements required: Field strength of spurious radiation, emission mask J.										
Operating Channel - 896.0125 or 900.9875 MHz										
Polarity	Freq (MHz)	Reading in dBuV	PreAmp Factor	Cable +Filter Factor	Horn Antenna	Corrected E (dBuV/m)	V/M	P (Watts)	Spec Limit Watts	Pass or Fail
Horizontal	3584.05	65.30	-38.00	9.7	31.5	68.50	0.002660725	0.000001295	0.000010000	Pass
Horizontal	3603.95	65.10	-38.00	9.7	31.5	68.30	0.002600160	0.000001237	0.000010000	Pass
Vertical	5376.08	55.90	-36.50	13.3	34.8	67.50	0.002371374	0.000001029	0.000010000	Pass
Horizontal	5405.93	55.20	-36.50	13.3	34.9	66.90	0.002213095	0.000000896	0.000010000	Pass
Horizontal	1801.98	69.30	-38.40	9.3	26.6	66.80	0.002187762	0.000000876	0.000010000	Pass
Horizontal	2688.04	68.00	-38.20	8.4	28.6	66.80	0.002187762	0.000000876	0.000010000	Pass

Notes: Frequency range investigated was from 10 kHz to 9.01 GHz. All spurious and harmonic emissions were investigated. All emissions detected that were less than 20dB below the permissible value were reported. CKC data sheet file name is fc90se55c-tx spurious scan+max.DAT.

CALCULATIONS	
<p>Note: The data taken is the radiated power of each spurious emission with reference to the unmodulated carrier power output of the transmitter. The <math>50+10\log(P)</math> dB "out of band" attenuation equates to a 10 uW limit for any P. The following equations establish this amplitude limit for spurious emissions.</p> <p>Spurious Emissions Limit (dBW) = <math>10\log P - (50+10\log P) = -50</math> dBW.                      Spurious Emissions Limit (W) = <math>10^{(-50/10)} = 10^{-6}</math> W.</p>	
<p><b>P Calculations</b>  <math>P = (Ed)^2/30(G)</math>  <math>E = V/m</math>                      d= distance                      G = Gain of Antenna (numerical gain of half wave dipole antenna 1.64) per Part 2.1053(a)</p>	<p><b>Conversion of dBuV/m to V/m</b>  <math>[\ln(\text{Reading in dBuV/m}/20)] * 0.000001 = V/m</math></p>

**2.1033(c)(14)/2.1055/24.135/90.213 - FREQUENCY STABILITY**

**Customer supplied data will be provided in a separate document.**

## **BANDEDGE PLOTS**

### ***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
S.A.	2049A01408	06/14/2001	06/14/2002	313
S.A. Display	2112A02174	06/14/2001	06/14/2002	313
QP Adapter	2430A00541	06/14/2001	06/14/2002	313
Hol-B 3M Rad. cable .01-1000MHz	rad_cab_3M_01_hol-b.01-1000MHz	09/13/2001	09/13/2002	0
Bilog, Chase CBL6111C	2630	10/10/2001	10/10/2002	0

### ***Test Conditions / Notes:***

The EUT is a handheld wireless email and calendar device with USB port. The transmitter operates in the 896-902 MHz range. The channel spacing is 12.5 kHz. The EUT is in a test mode that causes it to transmit continuously with modulation of the carrier.

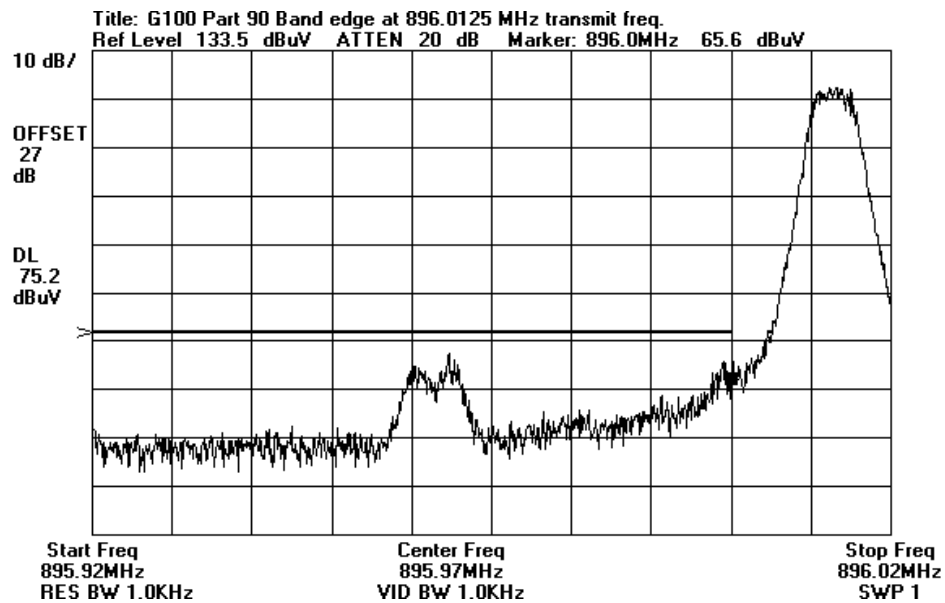
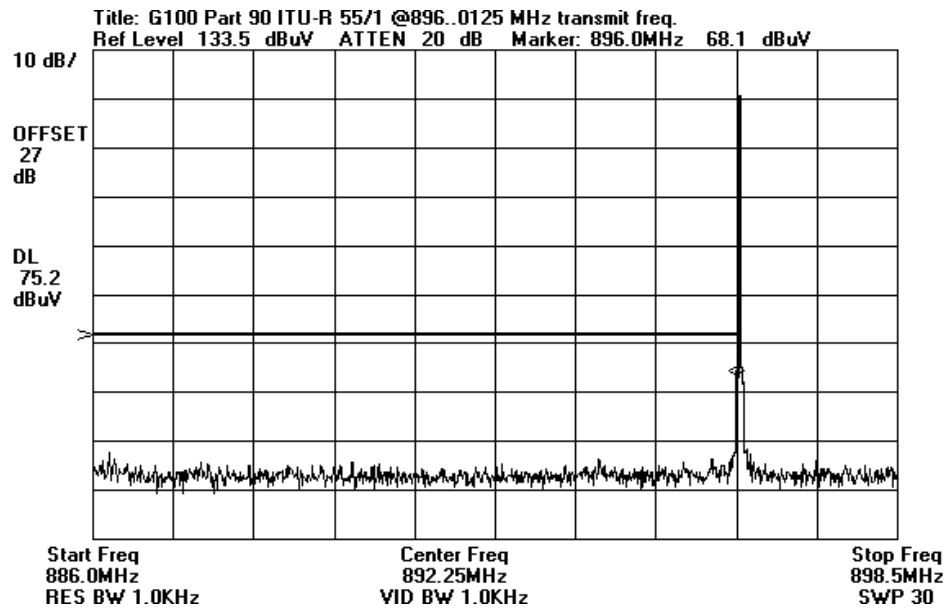
Note 1) The EUT is in the standalone flat position.

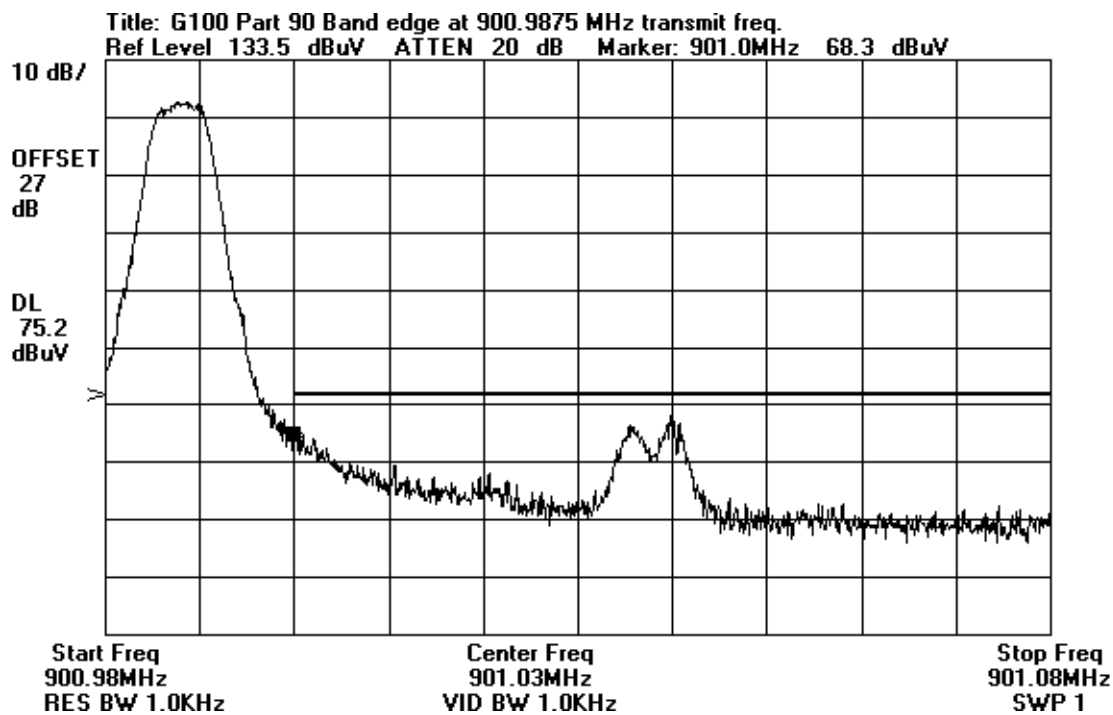
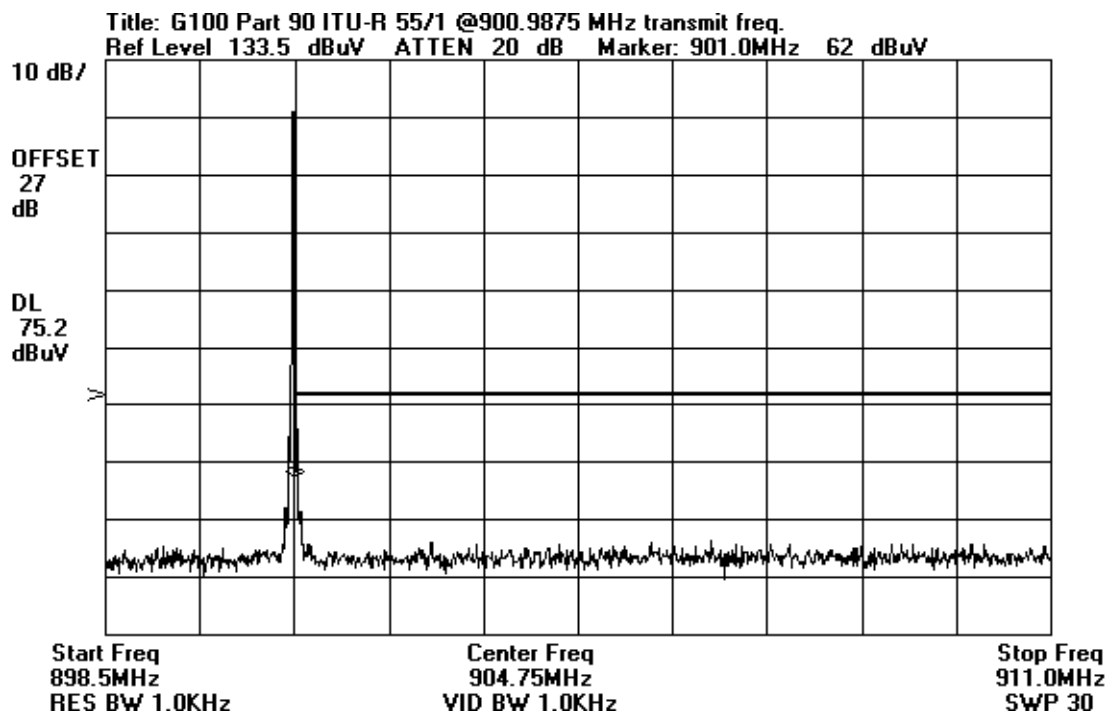
Note 2) New revision unit with new shield can over the power amplifier, harmonic filter and switch section.

Note 3) Testing S/N 123, fully modified with component changes to the PA section to reduce harmonic emissions. The changes are:  
 C280, C276, C73, C281=3.9 pf.  
 C77, C71, C72, C277=1.8 pf.  
 10 nH added between pin 14, 15, 16 of U14 and Vpa.  
 1 pf added from pin 14, 15, 16 of U14 to ground.

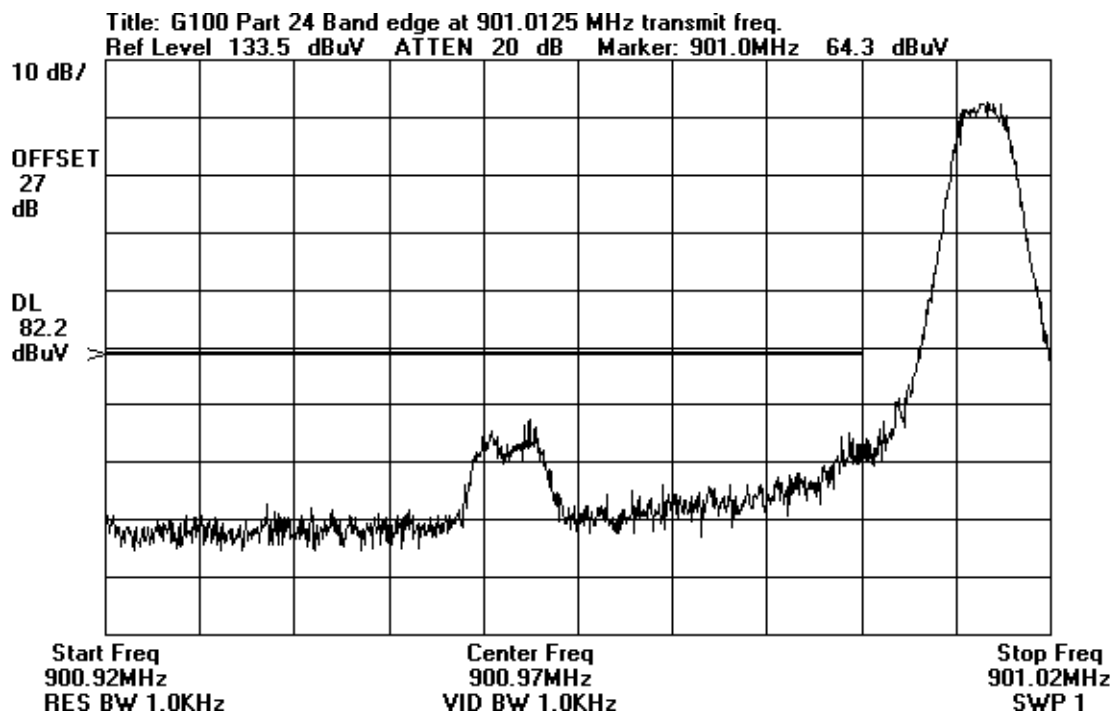
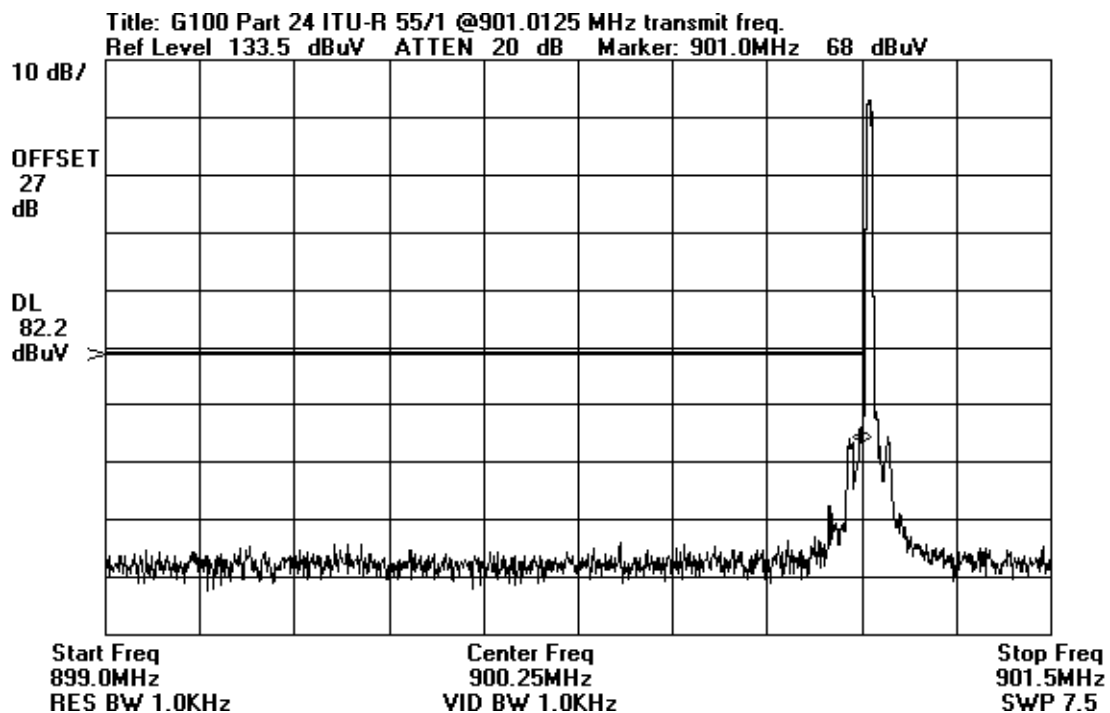
Note 4) The EUT is transmitting on the low (896.0125) or high channel (900.9875) for FCC part 90 and Canada RSS-119. The EUT is transmitting on the low (901.0125) or high channel (901.9875) for FCC part 24 and Canada RSS-134. Full power output was used for all plots.

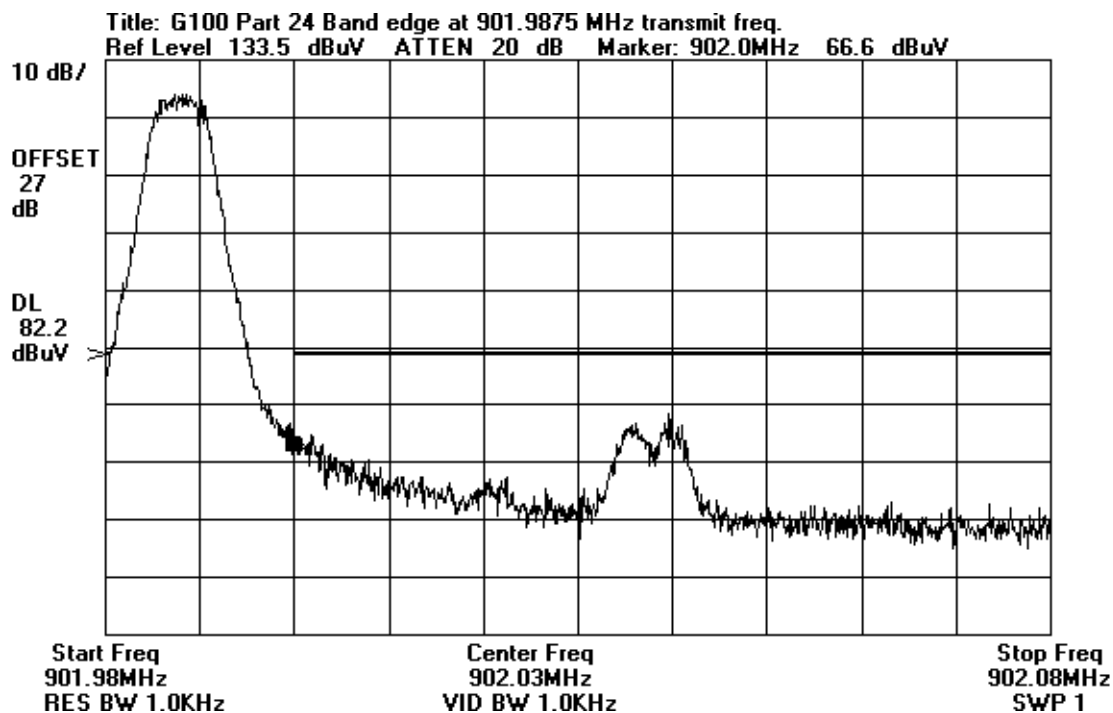
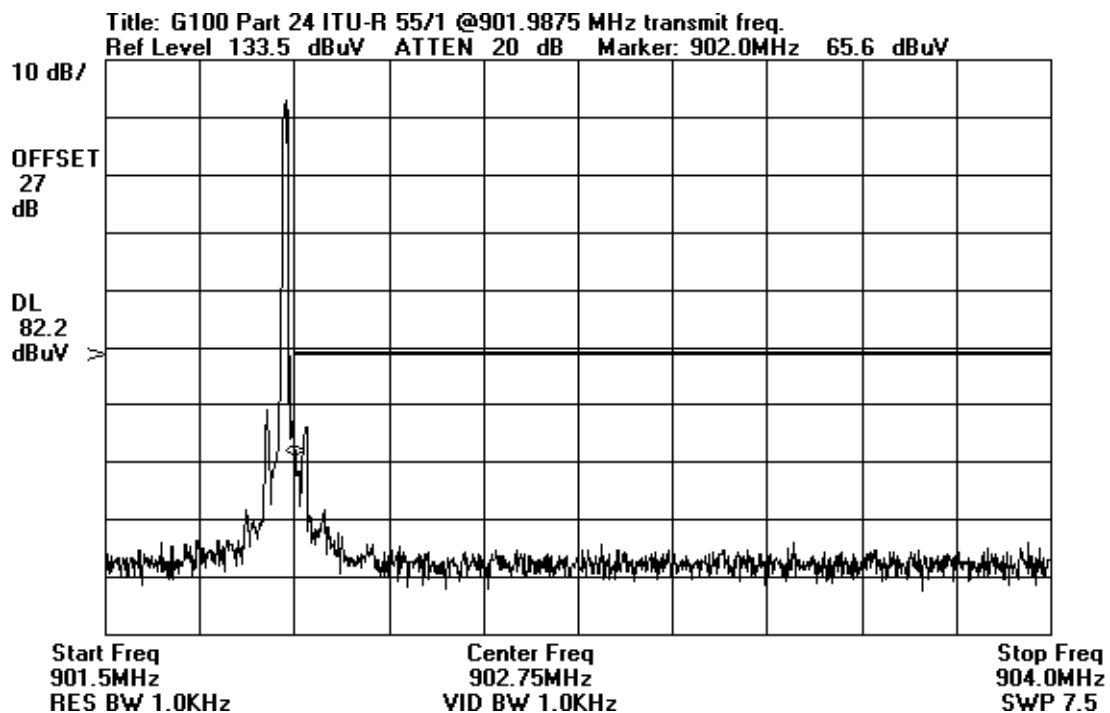
Note 5) Styrofoam spacers are put under the unit to prevent the wooden table from affecting the antenna.











**15.107 – AC CONDUCTED EMISSIONS – RECEIVER/DIGITAL**

See Appendix A for all setup photos.

<b>ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE</b>			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	450 kHz	30 MHz	9 kHz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**

Specification: **FCC B COND**

Work Order #: **77909**

Date: 03/04/2002

Test Type: **Conducted Emissions**

Time: 17:17:15

Equipment: **Wireless E-mail device**

Sequence#: 14

Manufacturer: Good Technology

Tested By: Matthew Pettersen

Model: G100

S/N: JW020800117

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Cable, Cond + .12uF cap HD	cond_cb1_hd_01	11/08/2001	11/08/2002	0
LISN, Solar 9252-50-R-24-BNC	927109	03/07/2001	03/07/2002	612

***Equipment Under Test (\* = EUT):***

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter	ANAM	TA3061-US	0201000080AA

***Support Devices:***

Function	Manufacturer	Model #	S/N
----------	--------------	---------	-----

***Test Conditions / Notes:***

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Conducted emissions 450KHz - 30MHz.

**Transducer Legend:**

T1=Site D Conducted cable + .12uF capacitor	T2=LISN loss, Black, s/n 927109,Solar 9252
T3=LISN Z, Black, s/n 927109,Solar 9252	

**Measurement Data:**

Reading listed by margin.

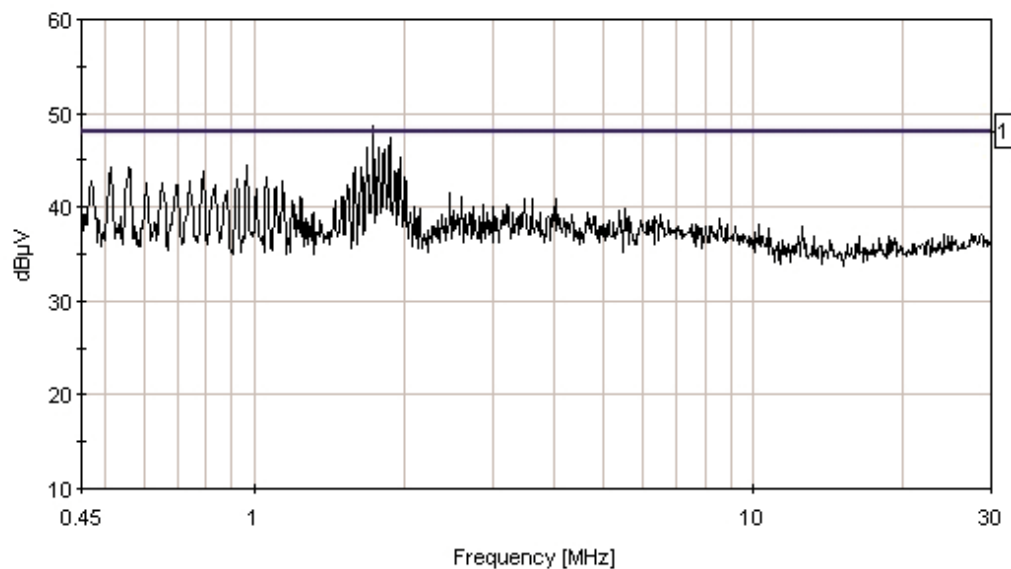
Test Lead: Black

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dB $\mu$ V	Spec dB $\mu$ V	Margin dB	Polar Ant
1	966.524k	43.4	+0.3	+0.1	+0.7	+0.0		44.5	48.0	-3.5	Black
2	1.639M	42.9	+0.3	+0.2	+0.8	+0.0		44.2	48.0	-3.8	Black
3	1.587M	42.9	+0.3	+0.2	+0.8	+0.0		44.2	48.0	-3.8	Black
4	560.326k	43.4	+0.1	+0.1	+0.6	+0.0		44.2	48.0	-3.8	Black
5	513.521k	43.3	+0.2	+0.1	+0.6	+0.0		44.2	48.0	-3.8	Black
6	1.916M	42.5	+0.3	+0.2	+0.8	+0.0		43.8	48.0	-4.2	Black
7	791.006k	42.7	+0.3	+0.1	+0.7	+0.0		43.8	48.0	-4.2	Black
8	1.821M	42.2	+0.3	+0.2	+0.8	+0.0		43.5	48.0	-4.5	Black
QP											
^	1.821M	44.9	+0.3	+0.2	+0.8	+0.0		46.2	48.0	-1.8	Black
10	1.733M	42.0	+0.3	+0.2	+0.8	+0.0		43.3	48.0	-4.7	Black
QP											
^	1.733M	47.3	+0.3	+0.2	+0.8	+0.0		48.6	48.0	+0.6	Black
12	2.007M	41.9	+0.3	+0.2	+0.8	+0.0		43.2	48.0	-4.8	Black
13	1.058M	42.0	+0.4	+0.1	+0.7	+0.0		43.2	48.0	-4.8	Black
14	926.406k	42.0	+0.2	+0.1	+0.7	+0.0		43.0	48.0	-5.0	Black
15	744.202k	41.7	+0.4	+0.1	+0.6	+0.0		42.8	48.0	-5.2	Black
16	1.142M	41.5	+0.4	+0.1	+0.7	+0.0		42.7	48.0	-5.3	Black
17	471.731k	41.8	+0.2	+0.1	+0.6	+0.0		42.7	48.0	-5.3	Black
18	653.935k	41.6	+0.3	+0.1	+0.6	+0.0		42.6	48.0	-5.4	Black
19	1.778M	41.2	+0.3	+0.2	+0.8	+0.0		42.5	48.0	-5.5	Black
QP											
^	1.778M	45.1	+0.3	+0.2	+0.8	+0.0		46.4	48.0	-1.6	Black
21	607.130k	41.4	+0.3	+0.2	+0.6	+0.0		42.5	48.0	-5.5	Black
22	832.796k	41.2	+0.4	+0.1	+0.7	+0.0		42.4	48.0	-5.6	Black

23	697.397k	41.4	+0.3	+0.1	+0.6	+0.0	42.4	48.0	-5.6	Black
24	1.539M	41.0	+0.3	+0.2	+0.8	+0.0	42.3	48.0	-5.7	Black
25	1.104M	41.0	+0.4	+0.1	+0.7	+0.0	42.2	48.0	-5.8	Black
26	1.009M	40.8	+0.4	+0.1	+0.7	+0.0	42.0	48.0	-6.0	Black
27	1.682M	40.6	+0.3	+0.2	+0.8	+0.0	41.9	48.0	-6.1	Black
	QP									
^	1.682M	45.0	+0.3	+0.2	+0.8	+0.0	46.3	48.0	-1.7	Black
29	877.930k	40.7	+0.3	+0.1	+0.7	+0.0	41.8	48.0	-6.2	Black
30	1.869M	40.4	+0.3	+0.2	+0.8	+0.0	41.7	48.0	-6.3	Black
	QP									
^	1.869M	46.1	+0.3	+0.2	+0.8	+0.0	47.4	48.0	-0.6	Black
32	2.466M	40.0	+0.5	+0.2	+0.9	+0.0	41.6	48.0	-6.4	Black
33	871.243k	40.1	+0.4	+0.1	+0.7	+0.0	41.3	48.0	-6.7	Black
34	2.604M	39.5	+0.5	+0.2	+0.9	+0.0	41.1	48.0	-6.9	Black
35	1.499M	39.8	+0.3	+0.2	+0.8	+0.0	41.1	48.0	-6.9	Black
36	1.237M	40.0	+0.3	+0.1	+0.7	+0.0	41.1	48.0	-6.9	Black
37	4.015M	39.0	+0.6	+0.2	+1.0	+0.0	40.8	48.0	-7.2	Black
38	3.598M	39.1	+0.6	+0.2	+0.9	+0.0	40.8	48.0	-7.2	Black
39	3.471M	39.1	+0.6	+0.2	+0.9	+0.0	40.8	48.0	-7.2	Black
40	1.448M	39.4	+0.3	+0.2	+0.8	+0.0	40.7	48.0	-7.3	Black
41	1.191M	39.4	+0.4	+0.1	+0.7	+0.0	40.6	48.0	-7.4	Black
42	3.192M	38.7	+0.5	+0.2	+0.9	+0.0	40.3	48.0	-7.7	Black
43	2.876M	38.8	+0.4	+0.2	+0.9	+0.0	40.3	48.0	-7.7	Black
44	3.235M	38.4	+0.5	+0.2	+0.9	+0.0	40.0	48.0	-8.0	Black
45	3.020M	38.5	+0.4	+0.2	+0.9	+0.0	40.0	48.0	-8.0	Black
46	2.738M	38.4	+0.5	+0.2	+0.9	+0.0	40.0	48.0	-8.0	Black
47	2.096M	38.7	+0.3	+0.2	+0.8	+0.0	40.0	48.0	-8.0	Black

48	5.510M	38.2	+0.5	+0.2	+1.0	+0.0	39.9	48.0	-8.1	Black
49	2.141M	38.4	+0.4	+0.2	+0.8	+0.0	39.8	48.0	-8.2	Black
50	1.955M	38.4	+0.3	+0.2	+0.8	+0.0	39.7	48.0	-8.3	Black
QP										
^	1.955M	44.0	+0.3	+0.2	+0.8	+0.0	45.3	48.0	-2.7	Black
52	5.380M	38.0	+0.5	+0.2	+1.0	+0.0	39.7	48.0	-8.3	Black
53	3.158M	38.1	+0.5	+0.2	+0.9	+0.0	39.7	48.0	-8.3	Black
54	2.511M	38.1	+0.5	+0.2	+0.9	+0.0	39.7	48.0	-8.3	Black
55	2.053M	38.2	+0.3	+0.2	+0.8	+0.0	39.5	48.0	-8.5	Black
56	1.315M	38.3	+0.3	+0.1	+0.8	+0.0	39.5	48.0	-8.5	Black

CKC Laboratories, Inc. Date: 03/04/2002 Time: 5:03:55 P WO#: 77909  
 FCC B COND Test Lead: Black Sequence#: 14  
 Good Technology Wireless Email and Calendar MN- G100 120V/60Hz



— Sweep Data — 1 - FCC B COND

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**

Specification: **FCC B COND**

Work Order #: **77909**

Date: 03/04/2002

Test Type: **Conducted Emissions**

Time: 5:28:00 PM

Equipment: **Wireless E-mail device**

Sequence#: 15

Manufacturer: Good Technology

Tested By: Matthew Pettersen

Model: G100

S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Cable, Cond + .12uF cap HD	cond_cbl_hd_01	11/08/2001	11/08/2002	0
LISN, Solar 9252-50-R-24-BNC	927109	03/07/2001	03/07/2002	612

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter	ANAM	TA3061-US	0201000080AA

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Conducted emissions 450KHz - 30MHz.

**Transducer Legend:**

T1=Site D Conducted cable + .12uF capacitor	T2=LISN loss, White, s/n 927109,Solar 9252
T3=LISN Z, White, s/n 927109,Solar 9252	

**Measurement Data:**

Reading listed by margin.

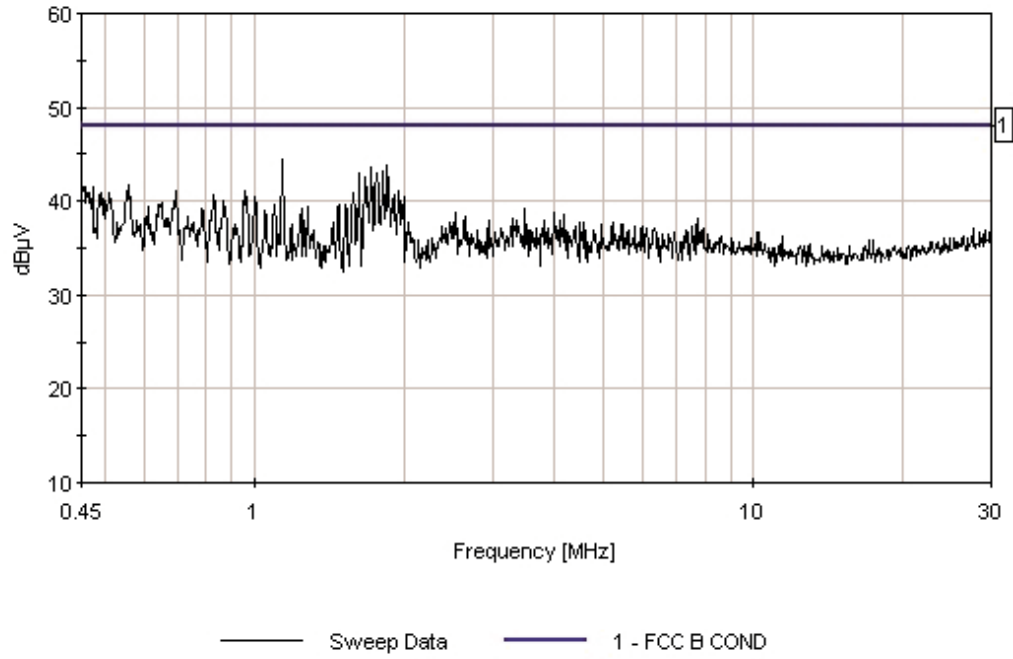
Test Lead: White

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	Dist dB	Table	Corr dB $\mu$ V	Spec dB $\mu$ V	Margin dB	Polar Ant
1	1.139M	44.0	+0.4	+0.2	-0.2		+0.0	44.4	48.0	-3.6	White
2	1.850M	43.6	+0.3	+0.1	-0.1		+0.0	43.9	48.0	-4.1	White
3	1.713M	43.3	+0.3	+0.1	-0.1		+0.0	43.6	48.0	-4.4	White
4	1.807M	42.9	+0.3	+0.1	-0.1		+0.0	43.2	48.0	-4.8	White
5	1.759M	42.6	+0.3	+0.1	-0.1		+0.0	42.9	48.0	-5.1	White
6	1.620M	42.6	+0.3	+0.1	-0.1		+0.0	42.9	48.0	-5.1	White
7	1.668M	42.3	+0.3	+0.1	-0.1		+0.0	42.6	48.0	-5.4	White

8	558.654k	41.8	+0.1	+0.1	-0.2	+0.0	41.8	48.0	-6.2	White
9	473.402k	41.5	+0.2	+0.1	-0.2	+0.0	41.6	48.0	-6.4	White
10	454.179k	41.4	+0.2	+0.1	-0.2	+0.0	41.5	48.0	-6.5	White
11	1.950M	40.8	+0.3	+0.1	-0.1	+0.0	41.1	48.0	-6.9	White
12	954.823k	41.0	+0.2	+0.1	-0.2	+0.0	41.1	48.0	-6.9	White
13	694.054k	40.8	+0.3	+0.1	-0.2	+0.0	41.0	48.0	-7.0	White
14	491.790k	40.8	+0.2	+0.1	-0.2	+0.0	40.9	48.0	-7.1	White
15	1.577M	40.5	+0.3	+0.1	-0.1	+0.0	40.8	48.0	-7.2	White
16	511.013k	40.7	+0.2	+0.1	-0.2	+0.0	40.8	48.0	-7.2	White
17	464.209k	40.7	+0.2	+0.1	-0.2	+0.0	40.8	48.0	-7.2	White
18	829.453k	40.2	+0.4	+0.2	-0.1	+0.0	40.7	48.0	-7.3	White
19	1.902M	40.3	+0.3	+0.1	-0.1	+0.0	40.6	48.0	-7.4	White
20	1.993M	40.2	+0.3	+0.1	-0.1	+0.0	40.5	48.0	-7.5	White
21	1.003M	40.0	+0.4	+0.2	-0.2	+0.0	40.4	48.0	-7.6	White
22	964.017k	40.2	+0.3	+0.1	-0.2	+0.0	40.4	48.0	-7.6	White
23	498.476k	40.2	+0.2	+0.1	-0.2	+0.0	40.3	48.0	-7.7	White
24	869.572k	39.5	+0.4	+0.2	-0.1	+0.0	40.0	48.0	-8.0	White
25	689.039k	39.7	+0.3	+0.1	-0.2	+0.0	39.9	48.0	-8.1	White
26	653.935k	39.6	+0.3	+0.2	-0.2	+0.0	39.9	48.0	-8.1	White
27	1.479M	39.4	+0.3	+0.1	-0.1	+0.0	39.7	48.0	-8.3	White
28	640.562k	39.4	+0.3	+0.2	-0.2	+0.0	39.7	48.0	-8.3	White
29	1.520M	39.3	+0.3	+0.1	-0.1	+0.0	39.6	48.0	-8.4	White
30	1.095M	39.2	+0.4	+0.2	-0.2	+0.0	39.6	48.0	-8.4	White



CKC Laboratories, Inc. Date: 03/04/2002 Time: 5:28:00 PM W/O#: 77909  
FCC B COND Test Lead: White Sequence#: 15  
Good Technology Wireless Email and Calendar M/N- G100 120V/60Hz



Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**

Specification: **FCC B COND**

Work Order #: **77909**

Date: 03/04/2002

Test Type: **Conducted Emissions**

Time: 5:55:26 PM

Equipment: **Wireless E-mail device**

Sequence#: 17

Manufacturer: Good Technology

Tested By: Matthew Pettersen

Model: G100

S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Cable, Cond + .12uF cap HD	cond_cbl_hd_01	11/08/2001	11/08/2002	0
LISN, Solar 9252-50-R-24-BNC	927109	03/07/2001	03/07/2002	612

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Conducted emissions 450KHz - 30MHz.

**Transducer Legend:**

T1=Site D Conducted cable + .12uF capacitor	T2=LISN loss, Black, s/n 927109,Solar 9252
T3=LISN Z, Black, s/n 927109,Solar 9252	

**Measurement Data:**

Reading listed by margin.

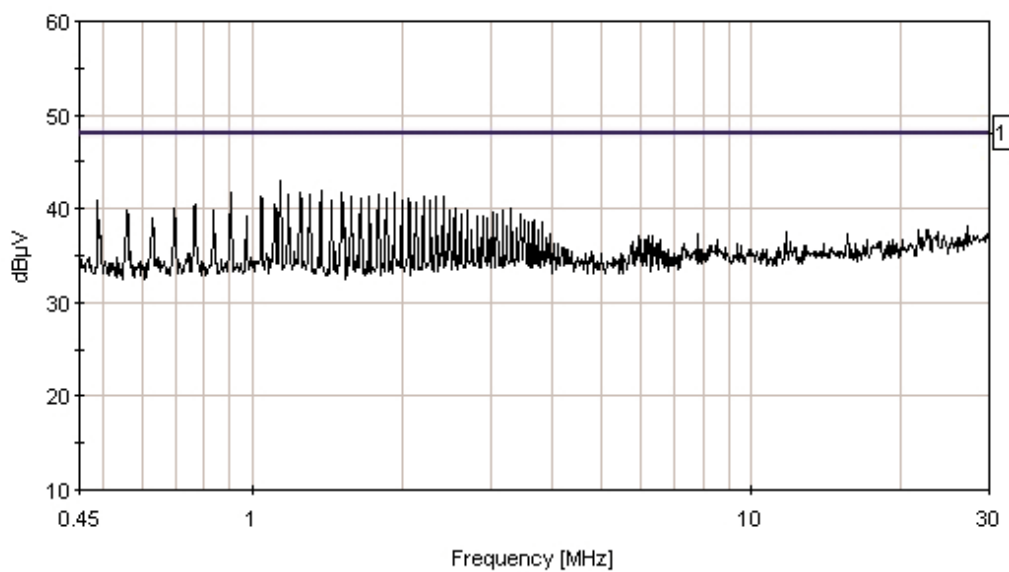
Test Lead: Black

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	Dist dB	Corr dB $\mu$ V	Spec dB $\mu$ V	Margin dB	Polar Ant
1	1.140M	41.8	+0.4	+0.1	+0.7	+0.0	43.0	48.0	-5.0	Black
2	1.372M	40.8	+0.3	+0.1	+0.8	+0.0	42.0	48.0	-6.0	Black
3	1.251M	40.7	+0.3	+0.1	+0.7	+0.0	41.8	48.0	-6.2	Black
4	1.921M	40.4	+0.3	+0.2	+0.8	+0.0	41.7	48.0	-6.3	Black

5	1.510M	40.4	+0.3	+0.2	+0.8	+0.0	41.7	48.0	-6.3	Black
6	906.347k	40.6	+0.3	+0.1	+0.7	+0.0	41.7	48.0	-6.3	Black
7	1.787M	40.3	+0.3	+0.2	+0.8	+0.0	41.6	48.0	-6.4	Black
8	1.303M	40.4	+0.3	+0.1	+0.7	+0.0	41.5	48.0	-6.5	Black
9	1.179M	40.3	+0.4	+0.1	+0.7	+0.0	41.5	48.0	-6.5	Black
10	2.408M	39.8	+0.5	+0.2	+0.9	+0.0	41.4	48.0	-6.6	Black
11	2.339M	39.9	+0.4	+0.2	+0.9	+0.0	41.4	48.0	-6.6	Black
12	1.716M	40.1	+0.3	+0.2	+0.8	+0.0	41.4	48.0	-6.6	Black
13	1.040M	40.1	+0.4	+0.1	+0.7	+0.0	41.3	48.0	-6.7	Black
14	2.203M	39.8	+0.4	+0.2	+0.8	+0.0	41.2	48.0	-6.8	Black
15	1.582M	39.9	+0.3	+0.2	+0.8	+0.0	41.2	48.0	-6.8	Black
16	2.060M	39.8	+0.3	+0.2	+0.8	+0.0	41.1	48.0	-6.9	Black
17	1.649M	39.8	+0.3	+0.2	+0.8	+0.0	41.1	48.0	-6.9	Black
18	1.857M	39.7	+0.3	+0.2	+0.8	+0.0	41.0	48.0	-7.0	Black
19	1.993M	39.6	+0.3	+0.2	+0.8	+0.0	40.9	48.0	-7.1	Black
20	490.118k	40.0	+0.2	+0.1	+0.6	+0.0	40.9	48.0	-7.1	Black
21	2.270M	39.3	+0.4	+0.2	+0.9	+0.0	40.8	48.0	-7.2	Black
22	1.439M	39.5	+0.3	+0.2	+0.8	+0.0	40.8	48.0	-7.2	Black
23	2.131M	39.3	+0.4	+0.2	+0.8	+0.0	40.7	48.0	-7.3	Black
24	1.109M	39.3	+0.4	+0.1	+0.7	+0.0	40.5	48.0	-7.5	Black
25	767.604k	39.2	+0.4	+0.1	+0.7	+0.0	40.4	48.0	-7.6	Black
26	2.547M	38.5	+0.5	+0.2	+0.9	+0.0	40.1	48.0	-7.9	Black
27	697.397k	39.1	+0.3	+0.1	+0.6	+0.0	40.1	48.0	-7.9	Black

28	3.306M	38.4	+0.5	+0.2	+0.9	+0.0	40.0	48.0	-8.0	Black
29	2.475M	38.3	+0.5	+0.2	+0.9	+0.0	39.9	48.0	-8.1	Black
30	832.796k	38.7	+0.4	+0.1	+0.7	+0.0	39.9	48.0	-8.1	Black

CKC Laboratories, Inc. Date: 03/04/2002 Time: 5:55:26 PM WO#: 77909  
 FCC B COND Test Lead: Black Sequence#: 17  
 Good Technology Wireless Email and Calendar MN- G100 120V/60Hz USB Mode



— Sweep Data      — 1 - FCC B COND

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**

Specification: **FCC B COND**

Work Order #: **77909**

Date: 03/04/2002

Test Type: **Conducted Emissions**

Time: 5:49:25 PM

Equipment: **Wireless E-mail device**

Sequence#: 16

Manufacturer: Good Technology

Tested By: Matthew Pettersen

Model: G100

S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Cable, Cond + .12uF cap HD	cond_cbl_hd_01	11/08/2001	11/08/2002	0
LISN, Solar 9252-50-R-24-BNC	927109	03/07/2001	03/07/2002	612

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Conducted emissions 450KHz - 30MHz.

**Transducer Legend:**

T1=Site D Conducted cable + .12uF capacitor	T2=LISN loss, White, s/n 927109,Solar 9252
T3=LISN Z, White, s/n 927109,Solar 9252	

**Measurement Data:**

Reading listed by margin.

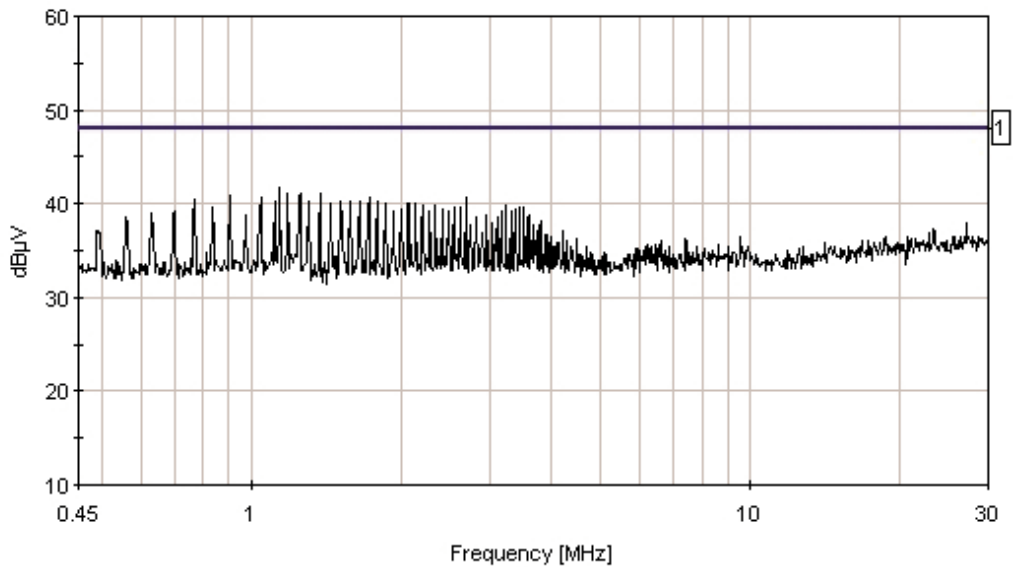
Test Lead: White

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	Dist dB	Corr dB $\mu$ V	Spec dB $\mu$ V	Margin dB	Polar Ant
1	1.139M	41.4	+0.4	+0.2	-0.2	+0.0	41.8	48.0	-6.2	White
2	1.252M	40.8	+0.3	+0.2	-0.2	+0.0	41.1	48.0	-6.9	White
3	1.372M	40.6	+0.3	+0.2	-0.1	+0.0	41.0	48.0	-7.0	White

4	1.179M	40.6	+0.4	+0.2	-0.2	+0.0	41.0	48.0	-7.0	White
5	908.018k	40.5	+0.3	+0.1	-0.1	+0.0	40.8	48.0	-7.2	White
6	1.044M	40.3	+0.4	+0.2	-0.2	+0.0	40.7	48.0	-7.3	White
7	2.685M	40.0	+0.5	+0.1	+0.0	+0.0	40.6	48.0	-7.4	White
8	1.721M	40.3	+0.3	+0.1	-0.1	+0.0	40.6	48.0	-7.4	White
9	769.276k	39.9	+0.4	+0.2	-0.1	+0.0	40.4	48.0	-7.6	White
10	1.787M	40.0	+0.3	+0.1	-0.1	+0.0	40.3	48.0	-7.7	White
11	1.510M	40.0	+0.3	+0.1	-0.1	+0.0	40.3	48.0	-7.7	White
12	1.649M	39.9	+0.3	+0.1	-0.1	+0.0	40.2	48.0	-7.8	White
13	1.575M	39.9	+0.3	+0.1	-0.1	+0.0	40.2	48.0	-7.8	White
14	1.300M	39.9	+0.3	+0.2	-0.2	+0.0	40.2	48.0	-7.8	White
15	1.112M	39.8	+0.4	+0.2	-0.2	+0.0	40.2	48.0	-7.8	White
16	2.062M	39.8	+0.3	+0.1	-0.1	+0.0	40.1	48.0	-7.9	White
17	1.439M	39.8	+0.3	+0.1	-0.1	+0.0	40.1	48.0	-7.9	White
18	2.131M	39.6	+0.4	+0.1	-0.1	+0.0	40.0	48.0	-8.0	White
19	1.854M	39.7	+0.3	+0.1	-0.1	+0.0	40.0	48.0	-8.0	White
20	3.244M	39.3	+0.5	+0.1	+0.0	+0.0	39.9	48.0	-8.1	White
21	2.341M	39.3	+0.4	+0.1	+0.0	+0.0	39.8	48.0	-8.2	White
22	2.203M	39.4	+0.4	+0.1	-0.1	+0.0	39.8	48.0	-8.2	White
23	3.454M	39.0	+0.6	+0.1	+0.0	+0.0	39.7	48.0	-8.3	White
24	3.521M	38.8	+0.6	+0.2	+0.0	+0.0	39.6	48.0	-8.4	White
25	2.619M	39.0	+0.5	+0.1	+0.0	+0.0	39.6	48.0	-8.4	White
26	2.552M	39.0	+0.5	+0.1	+0.0	+0.0	39.6	48.0	-8.4	White
27	837.811k	39.1	+0.4	+0.2	-0.1	+0.0	39.6	48.0	-8.4	White

28	3.383M	38.8	+0.6	+0.1	+0.0	+0.0	39.5	48.0	-8.5	White
29	2.408M	38.8	+0.5	+0.1	+0.0	+0.0	39.4	48.0	-8.6	White
30	1.993M	39.1	+0.3	+0.1	-0.1	+0.0	39.4	48.0	-8.6	White

CKC Laboratories, Inc. Date: 03/04/2002 Time: 5:49:25 PM WVO#: 77909  
 FCC B COND Test Lead: White Sequence#: 16  
 Good Technology Wireless Email and Calendar M/N- G100 120V/60Hz USB Mode



**15.109 – RADIATED EMISSIONS – RECEIVER/DIGITAL**

See Appendix A for all setup photos.

ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	2.85 GHz	1 MHz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer:	<b>Good Technology</b>	Date:	03/04/2002
Specification:	<b>FCC B RADIATED</b>	Time:	11:07:12
Work Order #:	<b>77909</b>	Sequence#:	6
Test Type:	<b>Maximized Emissions</b>	Tested By:	Matthew Pettersen
Equipment:	<b>Wireless E-mail device</b>		
Manufacturer:	Good Technology		
Model:	G100		
S/N:	JW020800117		

***Test Equipment:***

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamp, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

***Equipment Under Test (\* = EUT):***

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter	ANAM	TA3061-US	0201000029AA

***Support Devices:***

Function	Manufacturer	Model #	S/N
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***Test Conditions / Notes:***

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Radiated emissions 30MHz - 1GHz.

***Transducer Legend:***

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	



**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	891.535M	36.1	+22.0	+10.6	-27.5		+0.0	41.2	46.0	-4.8	Vert
2	891.859M	36.0	+22.0	+10.6	-27.5		+0.0	41.1	46.0	-4.9	Vert
3	891.823M	36.0	+22.0	+10.6	-27.5		+0.0	41.1	46.0	-4.9	Horiz
4	891.594M	35.9	+22.0	+10.6	-27.5		+0.0	41.0	46.0	-5.0	Horiz
5	890.196M	35.3	+22.0	+10.6	-27.5		+0.0	40.4	46.0	-5.6	Vert
6	895.056M	34.6	+22.0	+10.6	-27.4		+0.0	39.8	46.0	-6.2	Vert
7	893.694M	34.4	+22.0	+10.6	-27.4		+0.0	39.6	46.0	-6.4	Vert
8	892.608M	34.1	+22.0	+10.6	-27.4		+0.0	39.3	46.0	-6.7	Vert
9	892.858M	34.0	+22.0	+10.6	-27.4		+0.0	39.2	46.0	-6.8	Vert
10	894.622M	34.0	+22.0	+10.6	-27.4		+0.0	39.2	46.0	-6.8	Vert
11	62.480M	48.2	+6.0	+2.3	-27.8		+0.0	28.7	40.0	-11.3	Vert
12	51.580M	45.5	+8.1	+2.2	-27.8		+0.0	28.0	40.0	-12.0	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909**  
 Test Type: **Maximized Emissions**  
 Equipment: **Wireless E-mail device**  
 Manufacturer: Good Technology  
 Model: G100  
 S/N: JW020800117

Date: 03/04/2002  
 Time: 11:46:18  
 Sequence#: 7  
 Tested By: Matthew Pettersen

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamplifier, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter	ANAM	TA3061-US	0201000029AA

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in vertical position on the table in a styrofoam stand. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	891.859M	37.1	+22.0	+10.6	-27.5	+0.0	42.2	46.0	-3.8	Vert
2	891.535M	36.8	+22.0	+10.6	-27.5	+0.0	41.9	46.0	-4.1	Vert
3	891.564M	36.0	+22.0	+10.6	-27.5	+0.0	41.1	46.0	-4.9	Horiz
4	890.196M	35.9	+22.0	+10.6	-27.5	+0.0	41.0	46.0	-5.0	Vert
5	891.804M	35.0	+22.0	+10.6	-27.5	+0.0	40.1	46.0	-5.9	Horiz

6	895.056M	34.8	+22.0	+10.6	-27.4	+0.0	40.0	46.0	-6.0	Vert
7	892.858M	34.5	+22.0	+10.6	-27.4	+0.0	39.7	46.0	-6.3	Vert
8	894.622M	34.0	+22.0	+10.6	-27.4	+0.0	39.2	46.0	-6.8	Vert
9	51.639M	47.7	+8.1	+2.2	-27.8	+0.0	30.2	40.0	-9.8	Vert
10	62.564M	48.3	+6.0	+2.3	-27.8	+0.0	28.8	40.0	-11.2	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/04/2002  
 Test Type: **Maximized Emissions** Time: 12:21:01  
 Equipment: **Wireless E-mail device** Sequence#: 8  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamp, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter	ANAM	TA3061-US	0201000029AA

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in horizontal position on its left edge on the table in a styrofoam stand. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	890.196M	35.9	+22.0	+10.6	-27.5	+0.0	41.0	46.0	-5.0	Vert
2	891.544M	34.9	+22.0	+10.6	-27.5	+0.0	40.0	46.0	-6.0	Vert

3	891.552M	34.8	+22.0	+10.6	-27.5	+0.0	39.9	46.0	-6.1	Horiz
4	895.079M	34.2	+22.0	+10.6	-27.4	+0.0	39.4	46.0	-6.6	Vert
5	891.805M	33.6	+22.0	+10.6	-27.5	+0.0	38.7	46.0	-7.3	Horiz
6	891.859M	33.6	+22.0	+10.6	-27.5	+0.0	38.7	46.0	-7.3	Vert
7	892.614M	31.8	+22.0	+10.6	-27.4	+0.0	37.0	46.0	-9.0	Vert
8	894.364M	31.3	+22.0	+10.6	-27.4	+0.0	36.5	46.0	-9.5	Vert
9	62.777M	47.8	+6.0	+2.3	-27.8	+0.0	28.3	40.0	-11.7	Vert
10	51.737M	45.1	+8.1	+2.2	-27.8	+0.0	27.6	40.0	-12.4	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176  
 Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 14:31:36  
 Equipment: **Wireless E-mail device** Sequence#: 21  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter for EUT	ANAM	TA3061-US	0201000080AA

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Note: Receive channels are from 890 - 896MHz, 896 - 902MHz, 935 - 940MHz, and 940 - 941MHz. Highest LO is 902MHz Radiated emissions 1Hz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp,HP-83051A

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2805.630M	42.5	+0.3	+29.9	+5.1	-28.8	+0.0	49.0	54.0	-5.0	Vert
2	1873.410M	45.6	+0.2	+27.5	+4.0	-29.1	+0.0	48.2	54.0	-5.8	Horiz
3	2707.000M	41.7	+0.2	+29.4	+5.0	-28.9	+0.0	47.4	54.0	-6.6	Horiz
4	1200.500M	45.0	+0.2	+26.9	+3.2	-28.1	+0.0	47.2	54.0	-6.8	Horiz
5	2581.000M	42.8	+0.2	+28.6	+4.9	-29.4	+0.0	47.1	54.0	-6.9	Vert
6	1874.780M	44.5	+0.2	+27.5	+4.0	-29.1	+0.0	47.1	54.0	-6.9	Horiz
7	1877.400M	44.5	+0.2	+27.5	+4.0	-29.1	+0.0	47.1	54.0	-6.9	Horiz

8	1877.330M	44.4	+0.2	+27.5	+4.0	-29.1	+0.0	47.0	54.0	-7.0	Vert
9	1871.000M	44.1	+0.2	+27.5	+4.0	-29.1	+0.0	46.7	54.0	-7.3	Horiz
10	1873.240M	44.1	+0.2	+27.5	+4.0	-29.1	+0.0	46.7	54.0	-7.3	Vert
11	1880.660M	44.0	+0.2	+27.5	+4.0	-29.1	+0.0	46.6	54.0	-7.4	Horiz
12	1804.000M	44.6	+0.2	+27.2	+4.0	-29.5	+0.0	46.5	54.0	-7.5	Vert
13	1881.180M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.7	Vert
14	1871.490M	43.5	+0.2	+27.5	+4.0	-29.1	+0.0	46.1	54.0	-7.9	Vert
15	1804.000M	43.6	+0.2	+27.2	+4.0	-29.5	+0.0	45.5	54.0	-8.5	Horiz
16	1527.000M	44.6	+0.2	+26.1	+3.7	-29.8	+0.0	44.8	54.0	-9.2	Vert
17	2821.630M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Vert
^	2821.630M	44.6	+0.3	+30.0	+5.1	-28.7	+0.0	51.3	54.0	-2.7	Vert
19	2820.060M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Vert
^	2820.060M	44.7	+0.3	+30.0	+5.1	-28.7	+0.0	51.4	54.0	-2.6	Vert
21	2811.880M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Vert
^	2811.880M	43.0	+0.3	+30.0	+5.1	-28.7	+0.0	49.7	54.0	-4.3	Vert
23	2815.630M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Vert
^	2815.630M	44.8	+0.3	+30.0	+5.1	-28.7	+0.0	51.5	54.0	-2.5	Vert
25	2814.500M Ave	30.5	+0.3	+30.0	+5.1	-28.7	+0.0	37.2	54.0	-16.8	Horiz
^	2814.500M	44.1	+0.3	+30.0	+5.1	-28.7	+0.0	50.8	54.0	-3.2	Horiz
27	2818.100M Ave	30.5	+0.3	+30.0	+5.1	-28.7	+0.0	37.2	54.0	-16.8	Horiz
^	2818.100M	44.2	+0.3	+30.0	+5.1	-28.7	+0.0	50.9	54.0	-3.1	Horiz
29	2822.100M Ave	30.5	+0.3	+30.0	+5.1	-28.7	+0.0	37.2	54.0	-16.8	Horiz
^	2822.100M	43.9	+0.3	+30.0	+5.1	-28.7	+0.0	50.6	54.0	-3.4	Horiz
31	2808.000M Ave	30.5	+0.3	+29.9	+5.1	-28.8	+0.0	37.0	54.0	-17.0	Horiz
^	2808.000M	43.7	+0.3	+29.9	+5.1	-28.8	+0.0	50.2	54.0	-3.8	Horiz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 15:01:01  
 Equipment: **Wireless E-mail device** Sequence#: 22  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter for EUT	ANAM	TA3061-US	0201000080AA

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in vertical position on the table in a styrofoam stand. Note: Receive channels are from 890 - 896MHz, 896 - 902MHz, 935 - 940MHz, and 940 - 941MHz. Highest LO is 902MHz Radiated emissions 1Hz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp1,HP-83051A

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 DB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2821.600M	42.3	+0.3	+30.0	+5.1	-28.7	+0.0	49.0	54.0	-5.0	Vert
2	2818.750M	42.3	+0.3	+30.0	+5.1	-28.7	+0.0	49.0	54.0	-5.0	Vert
3	2813.550M	42.2	+0.3	+30.0	+5.1	-28.7	+0.0	48.9	54.0	-5.1	Vert
4	2808.500M	42.3	+0.3	+30.0	+5.1	-28.8	+0.0	48.9	54.0	-5.1	Vert
5	2809.800M	42.2	+0.3	+30.0	+5.1	-28.8	+0.0	48.8	54.0	-5.2	Horiz
6	2706.000M	42.8	+0.2	+29.4	+5.0	-29.0	+0.0	48.4	54.0	-5.6	Horiz



7	1207.800M	45.7	+0.2	+26.9	+3.2	-28.0	+0.0	48.0	54.0	-6.0	Vert
8	2706.800M	42.0	+0.2	+29.4	+5.0	-28.9	+0.0	47.7	54.0	-6.3	Vert
9	1872.150M	45.0	+0.2	+27.5	+4.0	-29.1	+0.0	47.6	54.0	-6.4	Horiz
10	1874.780M	44.6	+0.2	+27.5	+4.0	-29.1	+0.0	47.2	54.0	-6.8	Horiz
11	1200.300M	44.9	+0.2	+26.9	+3.2	-28.1	+0.0	47.1	54.0	-6.9	Horiz
12	1249.000M	44.6	+0.2	+26.8	+3.2	-27.8	+0.0	47.0	54.0	-7.0	Horiz
13	1804.000M	45.0	+0.2	+27.2	+4.0	-29.5	+0.0	46.9	54.0	-7.1	Horiz
14	1877.650M	43.9	+0.2	+27.5	+4.0	-29.1	+0.0	46.5	54.0	-7.5	Vert
15	1878.140M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.6	Horiz
16	1874.250M	43.7	+0.2	+27.5	+4.0	-29.1	+0.0	46.3	54.0	-7.7	Vert
17	1871.450M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Vert
18	1881.390M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Horiz
19	1880.690M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Vert
20	1056.300M	44.5	+0.2	+27.5	+2.8	-28.9	+0.0	46.1	54.0	-7.9	Horiz
21	1881.920M	43.2	+0.2	+27.5	+4.0	-29.1	+0.0	45.8	54.0	-8.2	Vert
22	1804.000M	43.7	+0.2	+27.2	+4.0	-29.5	+0.0	45.6	54.0	-8.4	Vert
23	2822.000M Ave	30.7	+0.3	+30.0	+5.1	-28.7	+0.0	37.4	54.0	-16.6	Horiz
^	2822.000M	43.4	+0.3	+30.0	+5.1	-28.7	+0.0	50.1	54.0	-3.9	Horiz
25	2817.750M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Horiz
^	2817.750M	44.2	+0.3	+30.0	+5.1	-28.7	+0.0	50.9	54.0	-3.1	Horiz
27	2815.550M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Horiz
^	2815.550M	44.5	+0.3	+30.0	+5.1	-28.7	+0.0	51.2	54.0	-2.8	Horiz

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Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 15:20:11  
 Equipment: **Wireless E-mail device** Sequence#: 23  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117
AC Adapter for EUT	ANAM	TA3061-US	0201000080AA

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is connected via USB cable to the AC Adapter. The EUT is being fully exercised. The EUT is being powered by the AC Adapter. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in horizontal position on its left edge on the table in a styrofoam stand. Note: Receive channels are from 890 - 896MHz, 896 - 902MHz, 935 - 940MHz, and 940 - 941MHz. Highest LO is 902MHz Radiated emissions 1Hz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp1,HP-83051A

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2822.540M	42.3	+0.3	+30.0	+5.1	-28.7	+0.0	49.0	54.0	-5.0	Horiz
2	2807.770M	42.5	+0.3	+29.9	+5.1	-28.8	+0.0	49.0	54.0	-5.0	Horiz
3	2822.500M	42.3	+0.3	+30.0	+5.1	-28.7	+0.0	49.0	54.0	-5.0	Vert
4	2816.510M	42.1	+0.3	+30.0	+5.1	-28.7	+0.0	48.8	54.0	-5.2	Horiz
5	2817.700M	42.1	+0.3	+30.0	+5.1	-28.7	+0.0	48.8	54.0	-5.2	Vert

6	2811.340M	42.0	+0.3	+30.0	+5.1	-28.8	+0.0	48.6	54.0	-5.4	Horiz
7	2807.500M	42.0	+0.3	+29.9	+5.1	-28.8	+0.0	48.5	54.0	-5.5	Vert
8	2812.450M	41.6	+0.3	+30.0	+5.1	-28.7	+0.0	48.3	54.0	-5.7	Vert
9	1201.000M	45.5	+0.2	+26.9	+3.2	-28.1	+0.0	47.7	54.0	-6.3	Horiz
10	2706.000M	41.8	+0.2	+29.4	+5.0	-29.0	+0.0	47.4	54.0	-6.6	Vert
11	1874.360M	44.8	+0.2	+27.5	+4.0	-29.1	+0.0	47.4	54.0	-6.6	Vert
12	1877.020M	44.6	+0.2	+27.5	+4.0	-29.1	+0.0	47.2	54.0	-6.8	Horiz
13	1881.530M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.2	Horiz
14	1881.460M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.2	Vert
15	1872.680M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.3	Horiz
16	1877.650M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.3	Vert
17	1785.950M	45.0	+0.2	+27.2	+3.9	-29.6	+0.0	46.7	54.0	-7.3	Vert
18	1878.870M	44.1	+0.2	+27.5	+4.0	-29.1	+0.0	46.7	54.0	-7.3	Vert
19	1875.410M	44.0	+0.2	+27.5	+4.0	-29.1	+0.0	46.6	54.0	-7.4	Horiz
20	1804.000M	44.5	+0.2	+27.2	+4.0	-29.5	+0.0	46.4	54.0	-7.6	Vert
21	1207.800M	43.9	+0.2	+26.9	+3.2	-28.0	+0.0	46.2	54.0	-7.8	Vert
22	1786.500M	44.0	+0.2	+27.2	+3.9	-29.6	+0.0	45.7	54.0	-8.3	Horiz
23	1871.450M	43.0	+0.2	+27.5	+4.0	-29.1	+0.0	45.6	54.0	-8.4	Vert
24	1804.000M	43.5	+0.2	+27.2	+4.0	-29.5	+0.0	45.4	54.0	-8.6	Horiz

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Customer: **Good Technology**

Specification: **FCC B RADIATED**

Work Order #: **77909**

Date: 03/01/2002

Test Type: **Maximized Emissions**

Time: 15:54:56

Equipment: **Wireless E-mail device**

Sequence#: 2

Manufacturer: Good Technology

Tested By: Matthew Pettersen

Model: G100

S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamp, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	T4=Log318

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	698.352M	37.9	+0.0	+9.2	-27.9	+23.5	+0.0	42.7	46.0	-3.3	Vert

2	890.657M	36.1	+0.0	+10.6	-27.5	+23.4	+0.0	42.6	46.0	-3.4	Horiz
	QP										
^	890.657M	37.7	+0.0	+10.6	-27.5	+23.4	+0.0	44.2	46.0	-1.8	Horiz
4	52.592M	52.9	+7.8	+2.2	-27.7	+0.0	+0.0	35.2	40.0	-4.8	Vert
5	719.929M	37.0	+0.0	+9.1	-28.0	+22.7	+0.0	40.8	46.0	-5.2	Vert
6	716.784M	36.1	+0.0	+9.1	-28.0	+22.9	+0.0	40.1	46.0	-5.9	Vert
7	48.220M	50.0	+9.4	+2.1	-27.8	+0.0	+0.0	33.7	40.0	-6.3	Vert
8	693.298M	34.2	+0.0	+9.3	-28.0	+23.2	+0.0	38.7	46.0	-7.3	Horiz
9	621.288M	37.1	+0.0	+8.4	-27.8	+20.0	+0.0	37.7	46.0	-8.3	Vert
10	443.591M	41.9	+0.0	+6.8	-27.6	+16.5	+0.0	37.6	46.0	-8.4	Horiz
11	719.955M	33.6	+0.0	+9.1	-28.0	+22.7	+0.0	37.4	46.0	-8.6	Horiz
12	793.789M	32.8	+0.0	+9.9	-27.7	+22.0	+0.0	37.0	46.0	-9.0	Horiz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/01/2002  
 Test Type: **Maximized Emissions** Time: 17:03:36  
 Equipment: **Wireless E-mail device** Sequence#: 3  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamplifier, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in horizontal position on its left edge on the table in a styrofoam stand. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	T4=Log318

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	890.673M QP	38.3	+0.0	+10.6	-27.5	+23.4	+0.0	44.8	46.0	-1.2	Horiz
2	793.790M QP	38.3	+0.0	+9.9	-27.7	+22.0	+0.0	42.5	46.0	-3.5	Horiz
3	52.615M	53.5	+7.8	+2.2	-27.7	+0.0	+0.0	35.8	40.0	-4.2	Vert
4	48.244M	52.0	+9.4	+2.1	-27.8	+0.0	+0.0	35.7	40.0	-4.3	Vert
5	698.359M	36.6	+0.0	+9.2	-27.9	+23.5	+0.0	41.4	46.0	-4.6	Vert
6	716.492M	37.3	+0.0	+9.1	-28.0	+22.9	+0.0	41.3	46.0	-4.7	Vert
7	720.102M	34.7	+0.0	+9.1	-28.0	+22.7	+0.0	38.5	46.0	-7.5	Vert
8	693.311M	34.0	+0.0	+9.3	-28.0	+23.2	+0.0	38.5	46.0	-7.5	Horiz
9	621.404M	37.3	+0.0	+8.4	-27.8	+20.0	+0.0	37.9	46.0	-8.1	Vert
10	720.051M	33.7	+0.0	+9.1	-28.0	+22.7	+0.0	37.5	46.0	-8.5	Horiz
11	443.888M	36.4	+0.0	+6.8	-27.6	+16.5	+0.0	32.1	46.0	-13.9	Horiz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909**  
 Test Type: **Maximized Emissions**  
 Equipment: **Wireless E-mail device**  
 Manufacturer: Good Technology  
 Model: G100  
 S/N: JW020800117

Date: 03/01/2002  
 Time: 17:40:01  
 Sequence#: 4  
 Tested By: Matthew Pettersen

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamplifier, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in vertical position on the table in a styrofoam stand. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	T4=Log318



**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin dB	Polar Ant
1	890.631M QP	37.8	+0.0	+10.6	-27.5	+23.4	+0.0	44.3	46.0	-1.7	Horiz
2	793.820M	38.7	+0.0	+9.9	-27.7	+22.0	+0.0	42.9	46.0	-3.1	Horiz
3	698.362M	37.3	+0.0	+9.2	-27.9	+23.5	+0.0	42.1	46.0	-3.9	Vert
4	52.525M	52.8	+7.8	+2.2	-27.7	+0.0	+0.0	35.1	40.0	-4.9	Vert
5	720.108M	36.7	+0.0	+9.1	-28.0	+22.7	+0.0	40.5	46.0	-5.5	Vert
6	443.610M	44.7	+0.0	+6.8	-27.6	+16.5	+0.0	40.4	46.0	-5.6	Horiz
7	48.153M	49.5	+9.5	+2.1	-27.8	+0.0	+0.0	33.3	40.0	-6.7	Vert
8	716.634M	34.9	+0.0	+9.1	-28.0	+22.9	+0.0	38.9	46.0	-7.1	Vert
9	693.287M	34.4	+0.0	+9.3	-28.0	+23.2	+0.0	38.9	46.0	-7.1	Horiz
10	720.029M	34.1	+0.0	+9.1	-28.0	+22.7	+0.0	37.9	46.0	-8.1	Horiz
11	621.383M	36.9	+0.0	+8.4	-27.8	+20.0	+0.0	37.5	46.0	-8.5	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**

Specification: **FCC B RADIATED**

Work Order #: **77909**

Date: 03/05/2002

Test Type: **Maximized Emissions**

Time: 12:01:09

Equipment: **Wireless E-mail device**

Sequence#: 18

Manufacturer: Good Technology

Tested By: Matthew Pettersen

Model: G100

S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. Data is being transferred from the laptop to the EUT via USB cable. The EUT is in flat position with the display facing up. Note: Receive channels are from 935-941MHz. The receiver LO frequency is from 890-896MHz. Radiated emissions 1GHz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp,HP-83051A

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	1192.500M	46.8	+0.2	+27.0	+3.1	-28.1	+0.0	49.0	54.0	-5.0	Vert
2	1126.100M	47.1	+0.2	+27.2	+3.0	-28.5	+0.0	49.0	54.0	-5.0	Horiz
3	1127.000M	47.0	+0.2	+27.2	+3.0	-28.5	+0.0	48.9	54.0	-5.1	Vert

4	2118.600M	45.4	+0.2	+28.0	+4.3	-29.0	+0.0	48.9	54.0	-5.1	Horiz
5	1881.200M	46.3	+0.2	+27.5	+4.0	-29.1	+0.0	48.9	54.0	-5.1	Horiz
6	1880.950M	46.3	+0.2	+27.5	+4.0	-29.1	+0.0	48.9	54.0	-5.1	Horiz
7	2705.900M	43.1	+0.2	+29.4	+5.0	-29.0	+0.0	48.7	54.0	-5.3	Horiz
8	2705.989M	43.0	+0.2	+29.4	+5.0	-29.0	+0.0	48.6	54.0	-5.4	Vert
9	1099.000M	46.9	+0.2	+27.3	+2.9	-28.7	+0.0	48.6	54.0	-5.4	Vert
10	1877.950M	46.0	+0.2	+27.5	+4.0	-29.1	+0.0	48.6	54.0	-5.4	Horiz
11	1879.220M	45.7	+0.2	+27.5	+4.0	-29.1	+0.0	48.3	54.0	-5.7	Horiz
12	1062.300M	46.7	+0.2	+27.4	+2.8	-28.9	+0.0	48.2	54.0	-5.8	Horiz
13	1873.990M	45.5	+0.2	+27.5	+4.0	-29.1	+0.0	48.1	54.0	-5.9	Horiz
14	1327.500M	46.1	+0.2	+26.5	+3.4	-28.5	+0.0	47.7	54.0	-6.3	Horiz
15	1263.500M	45.3	+0.2	+26.7	+3.3	-27.9	+0.0	47.6	54.0	-6.4	Horiz
16	1804.700M	45.5	+0.2	+27.2	+4.0	-29.5	+0.0	47.4	54.0	-6.6	Horiz
17	1460.500M	46.8	+0.2	+26.1	+3.6	-29.5	+0.0	47.2	54.0	-6.8	Horiz
18	1713.800M	45.8	+0.2	+26.9	+3.9	-29.8	+0.0	47.0	54.0	-7.0	Horiz
19	1876.920M	44.0	+0.2	+27.5	+4.0	-29.1	+0.0	46.6	54.0	-7.4	Vert
20	1592.500M	45.9	+0.2	+26.4	+3.8	-29.8	+0.0	46.5	54.0	-7.5	Vert
21	1872.000M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.6	Vert
22	1874.820M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Vert
23	1880.100M	43.3	+0.2	+27.5	+4.0	-29.1	+0.0	45.9	54.0	-8.2	Vert
24	1591.000M	44.9	+0.2	+26.4	+3.8	-29.8	+0.0	45.5	54.0	-8.5	Horiz
25	1881.019M	42.8	+0.2	+27.5	+4.0	-29.1	+0.0	45.4	54.0	-8.6	Vert
26	1881.998M	42.5	+0.2	+27.5	+4.0	-29.1	+0.0	45.1	54.0	-8.9	Vert
27	1803.800M	42.7	+0.2	+27.2	+4.0	-29.5	+0.0	44.6	54.0	-9.4	Vert

28	1200.000M Ave	36.3	+0.2	+26.9	+3.1	-28.1	+0.0	38.4	54.0	-15.7	Horiz
^	1200.000M	50.6	+0.2	+26.9	+3.1	-28.1	+0.0	52.7	54.0	-1.3	Horiz
30	2814.500M Ave	30.3	+0.3	+30.0	+5.1	-28.7	+0.0	37.0	54.0	-17.0	Horiz
^	2814.500M	44.0	+0.3	+30.0	+5.1	-28.7	+0.0	50.7	54.0	-3.3	Horiz
32	2822.560M Ave	30.3	+0.3	+30.0	+5.1	-28.7	+0.0	37.0	54.0	-17.0	Horiz
^	2822.560M	44.8	+0.3	+30.0	+5.1	-28.7	+0.0	51.5	54.0	-2.5	Horiz
34	2817.440M Ave	30.2	+0.3	+30.0	+5.1	-28.7	+0.0	36.9	54.0	-17.1	Vert
^	2817.440M	44.1	+0.3	+30.0	+5.1	-28.7	+0.0	50.8	54.0	-3.2	Vert
36	2820.000M Ave	30.2	+0.3	+30.0	+5.1	-28.7	+0.0	36.9	54.0	-17.1	Vert
^	2820.000M	44.9	+0.3	+30.0	+5.1	-28.7	+0.0	51.6	54.0	-2.4	Vert
38	2822.500M Ave	30.2	+0.3	+30.0	+5.1	-28.7	+0.0	36.9	54.0	-17.1	Vert
^	2822.500M	44.2	+0.3	+30.0	+5.1	-28.7	+0.0	50.9	54.0	-3.1	Vert
40	2808.560M Ave	30.3	+0.3	+30.0	+5.1	-28.8	+0.0	36.9	54.0	-17.1	Horiz
^	2808.560M	43.7	+0.3	+30.0	+5.1	-28.8	+0.0	50.3	54.0	-3.7	Horiz
42	2823.060M Ave	30.2	+0.3	+30.0	+5.1	-28.7	+0.0	36.9	54.0	-17.1	Horiz
^	2823.060M	43.6	+0.3	+30.0	+5.1	-28.7	+0.0	50.3	54.0	-3.7	Horiz
44	2810.130M Ave	30.2	+0.3	+30.0	+5.1	-28.8	+0.0	36.8	54.0	-17.2	Vert
^	2810.130M	44.5	+0.3	+30.0	+5.1	-28.8	+0.0	51.1	54.0	-2.9	Vert
46	2806.000M Ave	30.2	+0.3	+29.9	+5.1	-28.8	+0.0	36.7	54.0	-17.3	Vert
^	2806.000M	43.7	+0.3	+29.9	+5.1	-28.8	+0.0	50.2	54.0	-3.8	Vert
48	1066.500M Ave	34.9	+0.2	+27.4	+2.9	-28.9	+0.0	36.5	54.0	-17.5	Vert
^	1066.500M	50.1	+0.2	+27.4	+2.9	-28.9	+0.0	51.7	54.0	-2.3	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 13:15:15  
 Equipment: **Wireless E-mail device** Sequence#: 19  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. Data is being transferred from the laptop to the EUT via USB cable. The EUT is in vertical position on the table in a styrofoam stand. Note: Receive channels are from 935-941MHz. The receiver LO frequency is from 890-896MHz. Radiated emissions 1GHz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp,HP-83051A

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1197.500M	46.9	+0.2	+26.9	+3.1	-28.1	+0.0	49.0	54.0	-5.0	Horiz
2	2815.100M	42.3	+0.3	+30.0	+5.1	-28.7	+0.0	49.0	54.0	-5.0	Horiz

3	1065.000M	47.3	+0.2	+27.4	+2.9	-28.9	+0.0	48.9	54.0	-5.1	Horiz
4	2706.500M	43.3	+0.2	+29.4	+5.0	-29.0	+0.0	48.9	54.0	-5.1	Horiz
5	1877.400M	46.2	+0.2	+27.5	+4.0	-29.1	+0.0	48.8	54.0	-5.2	Horiz
6	2119.730M	45.3	+0.2	+28.0	+4.3	-29.0	+0.0	48.8	54.0	-5.2	Horiz
7	2125.700M	45.1	+0.2	+28.0	+4.3	-29.0	+0.0	48.6	54.0	-5.4	Vert
8	1129.400M	46.6	+0.2	+27.2	+3.0	-28.5	+0.0	48.5	54.0	-5.5	Horiz
9	2816.800M	41.7	+0.3	+30.0	+5.1	-28.7	+0.0	48.4	54.0	-5.6	Horiz
10	2822.600M	41.6	+0.3	+30.0	+5.1	-28.7	+0.0	48.3	54.0	-5.7	Horiz
11	2806.650M	41.7	+0.3	+29.9	+5.1	-28.8	+0.0	48.2	54.0	-5.8	Horiz
12	1875.330M	45.4	+0.2	+27.5	+4.0	-29.1	+0.0	48.0	54.0	-6.0	Horiz
13	2706.000M	41.8	+0.2	+29.4	+5.0	-29.0	+0.0	47.4	54.0	-6.6	Vert
14	1880.245M	44.8	+0.2	+27.5	+4.0	-29.1	+0.0	47.4	54.0	-6.6	Vert
15	1881.318M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.2	Vert
16	1874.600M	43.9	+0.2	+27.5	+4.0	-29.1	+0.0	46.5	54.0	-7.5	Vert
17	1881.980M	43.9	+0.2	+27.5	+4.0	-29.1	+0.0	46.5	54.0	-7.5	Vert
18	1879.395M	43.9	+0.2	+27.5	+4.0	-29.1	+0.0	46.5	54.0	-7.5	Vert
19	1870.050M	43.9	+0.2	+27.5	+4.0	-29.2	+0.0	46.4	54.0	-7.6	Vert
20	1874.400M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Horiz
21	1877.921M	43.3	+0.2	+27.5	+4.0	-29.1	+0.0	45.9	54.0	-8.1	Vert
22	1804.000M	43.9	+0.2	+27.2	+4.0	-29.5	+0.0	45.8	54.0	-8.2	Horiz
23	1804.000M	43.3	+0.2	+27.2	+4.0	-29.5	+0.0	45.2	54.0	-8.8	Vert
24	1881.000M	42.5	+0.2	+27.5	+4.0	-29.1	+0.0	45.1	54.0	-8.9	Horiz
25	2822.700M	30.5	+0.3	+30.0	+5.1	-28.7	+0.0	37.2	54.0	-16.8	Vert
	Ave										
^	2822.700M	44.1	+0.3	+30.0	+5.1	-28.7	+0.0	50.8	54.0	-3.2	Vert

27	2821.330M Ave	30.5	+0.3	+30.0	+5.1	-28.7	+0.0	37.2	54.0	-16.8	Vert
^	2821.330M	44.3	+0.3	+30.0	+5.1	-28.7	+0.0	51.0	54.0	-3.0	Vert
29	2819.770M Ave	30.3	+0.3	+30.0	+5.1	-28.7	+0.0	37.0	54.0	-17.0	Vert
^	2819.770M	43.5	+0.3	+30.0	+5.1	-28.7	+0.0	50.2	54.0	-3.8	Vert
31	2816.030M Ave	30.3	+0.3	+30.0	+5.1	-28.7	+0.0	37.0	54.0	-17.0	Vert
^	2816.030M	44.8	+0.3	+30.0	+5.1	-28.7	+0.0	51.5	54.0	-2.5	Vert
33	2808.680M Ave	30.3	+0.3	+30.0	+5.1	-28.8	+0.0	36.9	54.0	-17.1	Vert
^	2808.680M	44.7	+0.3	+30.0	+5.1	-28.8	+0.0	51.3	54.0	-2.7	Vert
35	2810.630M Ave	30.3	+0.3	+30.0	+5.1	-28.8	+0.0	36.9	54.0	-17.1	Vert
^	2810.630M	45.0	+0.3	+30.0	+5.1	-28.8	+0.0	51.6	54.0	-2.4	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 13:46:09  
 Equipment: **Wireless E-mail device** Sequence#: 20  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
Laptop PC	HP	Pavilion N5445	TW14218076
Printer AC Adapter	HP	C2175A	220995
Printer	HP	C2184A	MY63J1T1KZ
Keyboard	Micron	RT2258W	80183081
AC Adapter for PC	HP	f1781a	01316645
Monitor	Micron	RMD5L11CM	8205L1127503

**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. It is connected via USB cable to the PC. The laptop PC is connected to external keyboard, monitor, and printer to form a minimum system configuration. The PC and EUT are running software to fully exercise the EUT over the USB cable. EUT is in the USB/receive mode. In this mode the receiver is continuously scanning low, middle, and high channels. Data is being transferred from the laptop to the EUT via USB cable. The EUT is in horizontal position on its left edge on the table in a styrofoam stand. Note: Receive channels are from 935-941MHz. The receiver LO frequency is from 890-896MHz. Radiated emissions 1GHz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp,HP-83051A

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1333.600M	47.4	+0.2	+26.5	+3.4	-28.5	+0.0	49.0	54.0	-5.0	Vert
2	1195.400M	46.8	+0.2	+27.0	+3.1	-28.1	+0.0	49.0	54.0	-5.0	Horiz



3	1127.100M	47.0	+0.2	+27.2	+3.0	-28.5	+0.0	48.9	54.0	-5.1	Vert
4	1128.700M	47.0	+0.2	+27.2	+3.0	-28.5	+0.0	48.9	54.0	-5.1	Horiz
5	1093.000M	47.1	+0.2	+27.3	+2.9	-28.7	+0.0	48.8	54.0	-5.2	Vert
6	1193.200M	46.6	+0.2	+27.0	+3.1	-28.1	+0.0	48.8	54.0	-5.2	Vert
7	2706.700M	43.0	+0.2	+29.4	+5.0	-28.9	+0.0	48.7	54.0	-5.3	Vert
8	1064.200M	46.8	+0.2	+27.4	+2.9	-28.9	+0.0	48.4	54.0	-5.6	Horiz
9	2706.000M	42.7	+0.2	+29.4	+5.0	-29.0	+0.0	48.3	54.0	-5.7	Horiz
10	1881.640M	45.3	+0.2	+27.5	+4.0	-29.1	+0.0	47.9	54.0	-6.1	Horiz
11	1870.790M	44.8	+0.2	+27.5	+4.0	-29.2	+0.0	47.3	54.0	-6.7	Horiz
12	1874.180M	44.6	+0.2	+27.5	+4.0	-29.1	+0.0	47.2	54.0	-6.8	Vert
13	1873.660M	44.3	+0.2	+27.5	+4.0	-29.1	+0.0	46.9	54.0	-7.1	Vert
14	1878.660M	44.3	+0.2	+27.5	+4.0	-29.1	+0.0	46.9	54.0	-7.2	Horiz
15	1878.030M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.2	Vert
16	1871.420M	44.1	+0.2	+27.5	+4.0	-29.1	+0.0	46.7	54.0	-7.3	Vert
17	1880.380M	44.0	+0.2	+27.5	+4.0	-29.1	+0.0	46.6	54.0	-7.4	Vert
18	1875.970M	43.9	+0.2	+27.5	+4.0	-29.1	+0.0	46.5	54.0	-7.5	Horiz
19	1874.250M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.6	Horiz
20	1881.850M	43.4	+0.2	+27.5	+4.0	-29.1	+0.0	46.0	54.0	-8.1	Vert
21	1804.000M	43.7	+0.2	+27.2	+4.0	-29.5	+0.0	45.6	54.0	-8.4	Vert
22	1804.000M	43.0	+0.2	+27.2	+4.0	-29.5	+0.0	44.9	54.0	-9.1	Horiz
23	2808.500M Ave	31.6	+0.3	+30.0	+5.1	-28.8	+0.0	38.2	54.0	-15.8	Horiz
^	2808.500M	44.8	+0.3	+30.0	+5.1	-28.8	+0.0	51.4	54.0	-2.6	Horiz
25	2815.100M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Vert
^	2815.100M	44.5	+0.3	+30.0	+5.1	-28.7	+0.0	51.2	54.0	-2.8	Vert

27	2821.400M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Vert
^	2821.400M	44.4	+0.3	+30.0	+5.1	-28.7	+0.0	51.1	54.0	-2.9	Vert
29	2812.150M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Horiz
^	2812.150M	43.3	+0.3	+30.0	+5.1	-28.7	+0.0	50.0	54.0	-4.0	Horiz
31	2821.400M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Horiz
^	2821.400M	44.5	+0.3	+30.0	+5.1	-28.7	+0.0	51.2	54.0	-2.8	Horiz
33	2822.900M Ave	30.6	+0.3	+30.0	+5.1	-28.7	+0.0	37.3	54.0	-16.7	Horiz
^	2822.900M	45.2	+0.3	+30.0	+5.1	-28.7	+0.0	51.9	54.0	-2.2	Horiz
35	2811.750M Ave	30.6	+0.3	+30.0	+5.1	-28.8	+0.0	37.2	54.0	-16.8	Vert
^	2811.750M	44.1	+0.3	+30.0	+5.1	-28.8	+0.0	50.7	54.0	-3.3	Vert
37	2807.400M Ave	30.6	+0.3	+29.9	+5.1	-28.8	+0.0	37.1	54.0	-16.9	Vert
^	2807.400M	43.4	+0.3	+29.9	+5.1	-28.8	+0.0	49.9	54.0	-4.1	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/04/2002  
 Test Type: **Maximized Emissions** Time: 15:21:58  
 Equipment: **Wireless E-mail device** Sequence#: 10  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamplifier, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is not connected to any other devices. The EUT is being fully exercised. The EUT is being powered by a battery. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	892.832M	38.3	+22.0	+10.6	-27.4	+0.0	43.5	46.0	-2.5	Horiz
2	892.585M	38.2	+22.0	+10.6	-27.4	+0.0	43.4	46.0	-2.6	Horiz
3	891.562M	37.8	+22.0	+10.6	-27.5	+0.0	42.9	46.0	-3.1	Vert

4	892.112M	37.7	+22.0	+10.6	-27.5	+0.0	42.8	46.0	-3.2	Horiz
5	894.103M	37.4	+22.0	+10.6	-27.4	+0.0	42.6	46.0	-3.4	Horiz
6	891.320M	37.4	+22.0	+10.6	-27.5	+0.0	42.5	46.0	-3.5	Horiz
7	893.566M	37.1	+22.0	+10.6	-27.4	+0.0	42.3	46.0	-3.7	Horiz
8	895.440M	36.5	+22.0	+10.6	-27.4	+0.0	41.7	46.0	-4.3	Horiz
9	892.645M	35.6	+22.0	+10.6	-27.4	+0.0	40.8	46.0	-5.2	Vert
10	891.159M	32.7	+22.0	+10.6	-27.5	+0.0	37.8	46.0	-8.2	Vert
11	894.813M	31.8	+22.0	+10.6	-27.4	+0.0	37.0	46.0	-9.0	Vert
12	894.084M	31.8	+22.0	+10.6	-27.4	+0.0	37.0	46.0	-9.0	Vert
13	893.121M	31.6	+22.0	+10.6	-27.4	+0.0	36.8	46.0	-9.2	Vert
14	743.785M	33.3	+21.1	+9.4	-27.8	+0.0	36.0	46.0	-10.0	Vert
15	764.079M	30.5	+21.2	+9.3	-27.9	+0.0	33.1	46.0	-12.9	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/04/2002  
 Test Type: **Maximized Emissions** Time: 16:11:43  
 Equipment: **Wireless E-mail device** Sequence#: 11  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamplifier, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is not connected to any other devices. The EUT is being fully exercised. The EUT is being powered by a battery. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in vertical position on the table in a styrofoam stand. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	891.838M	35.9	+22.0	+10.6	-27.5	+0.0	41.0	46.0	-5.0	Vert
2	891.649M	35.6	+22.0	+10.6	-27.5	+0.0	40.7	46.0	-5.3	Vert
3	891.396M	35.1	+22.0	+10.6	-27.5	+0.0	40.2	46.0	-5.8	Horiz

4	892.667M	34.6	+22.0	+10.6	-27.4	+0.0	39.8	46.0	-6.2	Vert
5	892.132M	34.2	+22.0	+10.6	-27.5	+0.0	39.3	46.0	-6.7	Horiz
6	894.813M	33.8	+22.0	+10.6	-27.4	+0.0	39.0	46.0	-7.0	Vert
7	893.121M	33.6	+22.0	+10.6	-27.4	+0.0	38.8	46.0	-7.2	Vert
8	894.084M	32.8	+22.0	+10.6	-27.4	+0.0	38.0	46.0	-8.0	Vert
9	743.823M	35.0	+21.1	+9.4	-27.8	+0.0	37.7	46.0	-8.3	Vert
10	893.704M	32.4	+22.0	+10.6	-27.4	+0.0	37.6	46.0	-8.4	Horiz
11	892.690M	31.6	+22.0	+10.6	-27.4	+0.0	36.8	46.0	-9.2	Horiz
12	892.899M	30.9	+22.0	+10.6	-27.4	+0.0	36.1	46.0	-9.9	Horiz
13	894.054M	30.3	+22.0	+10.6	-27.4	+0.0	35.5	46.0	-10.5	Horiz
14	895.376M	30.0	+22.0	+10.6	-27.4	+0.0	35.2	46.0	-10.8	Horiz
15	764.079M	30.6	+21.2	+9.3	-27.9	+0.0	33.2	46.0	-12.8	Vert

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/04/2002  
 Test Type: **Maximized Emissions** Time: 16:37:19  
 Equipment: **Wireless E-mail device** Sequence#: 12  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Preamplifier, HP8447D	2944A06739	11/14/2001	11/14/2002	705
Display Unit, HP 85662A	2237A04350	09/25/2001	09/25/2002	446
Spectrum Analyzer, HP 8568A	2235A02391	09/25/2001	09/25/2002	446
QP Adapter HP 85650A	2043A00286	09/25/2001	09/25/2002	445
Bilog Antenna CBL6111C	2451	10/10/2001	10/10/2002	1995
Rad cable 10M or 3M	rad_cab_10M_01_hd	07/24/2001	07/24/2002	0
Log Periodic AH Systems SAS-200/510	318	05/16/2001	05/16/2002	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is not connected to any other devices. The EUT is being fully exercised. The EUT is being powered by a battery. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in horizontal position on its left edge on the table in a styrofoam stand. Radiated emissions 30MHz - 1GHz.

**Transducer Legend:**

T1=Chase bilog 2451	T2=10m or 3m radiated cable Site D
T3=HP 8447D Site D Pre Amp	

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table dB	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	891.608M	36.2	+22.0	+10.6	-27.5	+0.0	41.3	46.0	-4.7	Horiz
2	894.133M	36.1	+22.0	+10.6	-27.4	+0.0	41.3	46.0	-4.7	Horiz
3	892.858M	35.9	+22.0	+10.6	-27.4	+0.0	41.1	46.0	-4.9	Horiz

4	892.635M	35.9	+22.0	+10.6	-27.4	+0.0	41.1	46.0	-4.9	Horiz
5	894.886M	35.8	+22.0	+10.6	-27.4	+0.0	41.0	46.0	-5.0	Horiz
6	893.871M	35.6	+22.0	+10.6	-27.4	+0.0	40.8	46.0	-5.2	Horiz
7	891.658M	34.9	+22.0	+10.6	-27.5	+0.0	40.0	46.0	-6.0	Vert
8	891.350M	33.5	+22.0	+10.6	-27.5	+0.0	38.6	46.0	-7.4	Vert
9	891.864M	33.5	+22.0	+10.6	-27.5	+0.0	38.6	46.0	-7.4	Vert
10	892.238M	33.4	+22.0	+10.6	-27.5	+0.0	38.5	46.0	-7.5	Horiz
11	894.615M	32.8	+22.0	+10.6	-27.4	+0.0	38.0	46.0	-8.0	Vert
12	894.581M	31.8	+22.0	+10.6	-27.4	+0.0	37.0	46.0	-9.0	Vert
13	893.914M	31.8	+22.0	+10.6	-27.4	+0.0	37.0	46.0	-9.0	Vert
14	743.833M	34.0	+21.1	+9.4	-27.8	+0.0	36.7	46.0	-9.3	Vert
15	893.136M	31.5	+22.0	+10.6	-27.4	+0.0	36.7	46.0	-9.3	Vert
16	764.145M	30.4	+21.2	+9.3	-27.9	+0.0	33.0	46.0	-13.0	Vert



Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 15:41:41  
 Equipment: **Wireless E-mail device** Sequence#: 24  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is not connected to any other devices. The EUT is being fully exercised. The EUT is being powered by a battery. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in flat position with the display facing up. Note: Receive channels are from 935-941MHz. The receiver LO frequency is from 890-896MHz. Radiated emissions 1GHz - 2.85GHz..

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp1,HP-83051A

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dB $\mu$ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB $\mu$ V/m	Spec dB $\mu$ V/m	Margin DB	Polar Ant
1	2822.300M	42.2	+0.3	+30.0	+5.1	-28.7	+0.0	48.9	54.0	-5.1	Vert
2	2706.000M	43.2	+0.2	+29.4	+5.0	-29.0	+0.0	48.8	54.0	-5.2	Vert
3	2807.050M	41.8	+0.3	+29.9	+5.1	-28.8	+0.0	48.3	54.0	-5.7	Vert
4	2818.650M	41.5	+0.3	+30.0	+5.1	-28.7	+0.0	48.2	54.0	-5.8	Horiz
5	2813.900M	41.1	+0.3	+30.0	+5.1	-28.7	+0.0	47.8	54.0	-6.2	Vert
6	2807.800M	41.0	+0.3	+29.9	+5.1	-28.8	+0.0	47.5	54.0	-6.5	Horiz

7	2817.950M	40.7	+0.3	+30.0	+5.1	-28.7	+0.0	47.4	54.0	-6.6	Vert
8	2822.050M	40.7	+0.3	+30.0	+5.1	-28.7	+0.0	47.4	54.0	-6.7	Horiz
9	2706.000M	41.6	+0.2	+29.4	+5.0	-29.0	+0.0	47.2	54.0	-6.8	Horiz
10	1804.000M	45.2	+0.2	+27.2	+4.0	-29.5	+0.0	47.1	54.0	-6.9	Vert
11	1877.610M	44.3	+0.2	+27.5	+4.0	-29.1	+0.0	46.9	54.0	-7.1	Horiz
12	1875.230M	44.1	+0.2	+27.5	+4.0	-29.1	+0.0	46.7	54.0	-7.3	Horiz
13	1200.000M	44.4	+0.2	+26.9	+3.1	-28.1	+0.0	46.5	54.0	-7.5	Horiz
14	1812.250M	44.4	+0.2	+27.2	+4.0	-29.5	+0.0	46.3	54.0	-7.7	Vert
15	1808.400M	44.4	+0.2	+27.2	+4.0	-29.5	+0.0	46.3	54.0	-7.7	Vert
16	1195.000M	44.1	+0.2	+27.0	+3.1	-28.1	+0.0	46.3	54.0	-7.8	Vert
17	1821.950M	44.1	+0.2	+27.3	+4.0	-29.4	+0.0	46.2	54.0	-7.8	Vert
18	1816.250M	44.1	+0.2	+27.3	+4.0	-29.4	+0.0	46.2	54.0	-7.8	Vert
19	1872.190M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Horiz
20	2812.600M	39.3	+0.3	+30.0	+5.1	-28.7	+0.0	46.0	54.0	-8.0	Horiz
21	1881.570M	43.2	+0.2	+27.5	+4.0	-29.1	+0.0	45.8	54.0	-8.2	Horiz
22	1804.000M	43.7	+0.2	+27.2	+4.0	-29.5	+0.0	45.6	54.0	-8.4	Horiz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 15:59:27  
 Equipment: **Wireless E-mail device** Sequence#: 25  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is not connected to any other devices. The EUT is being fully exercised. The EUT is being powered by a battery. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in vertical position on the table in a styrofoam stand. Note: Receive channels are from 935-941MHz. The receiver LO frequency is from 890-896MHz. Radiated emissions 1GHz - 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,Preamp1,HP-83051A

**Measurement Data:**

Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	2706.000M	43.4	+0.2	+29.4	+5.0	-29.0	+0.0	49.0	54.0	-5.0	Horiz
2	2706.000M	43.2	+0.2	+29.4	+5.0	-29.0	+0.0	48.8	54.0	-5.2	Vert
3	2822.550M	41.6	+0.3	+30.0	+5.1	-28.7	+0.0	48.3	54.0	-5.7	Horiz
4	2811.800M	41.6	+0.3	+30.0	+5.1	-28.8	+0.0	48.2	54.0	-5.9	Vert
5	2817.100M	41.2	+0.3	+30.0	+5.1	-28.7	+0.0	47.9	54.0	-6.1	Vert
6	1871.030M	44.9	+0.2	+27.5	+4.0	-29.1	+0.0	47.5	54.0	-6.5	Vert

7	2807.600M	40.6	+0.3	+29.9	+5.1	-28.8	+0.0	47.1	54.0	-6.9	Horiz
8	1874.670M	44.3	+0.2	+27.5	+4.0	-29.1	+0.0	46.9	54.0	-7.1	Horiz
9	1804.000M	44.8	+0.2	+27.2	+4.0	-29.5	+0.0	46.7	54.0	-7.3	Horiz
10	2818.050M	40.0	+0.3	+30.0	+5.1	-28.7	+0.0	46.7	54.0	-7.3	Horiz
11	1878.280M	44.0	+0.2	+27.5	+4.0	-29.1	+0.0	46.6	54.0	-7.4	Horiz
12	1881.670M	43.9	+0.2	+27.5	+4.0	-29.1	+0.0	46.5	54.0	-7.5	Horiz
13	2822.300M	39.8	+0.3	+30.0	+5.1	-28.7	+0.0	46.5	54.0	-7.5	Vert
14	1804.000M	44.6	+0.2	+27.2	+4.0	-29.5	+0.0	46.5	54.0	-7.5	Vert
15	2812.850M	39.7	+0.3	+30.0	+5.1	-28.7	+0.0	46.4	54.0	-7.6	Horiz
16	1881.220M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.6	Vert
17	1876.140M	43.7	+0.2	+27.5	+4.0	-29.1	+0.0	46.3	54.0	-7.7	Vert
18	1879.750M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Vert
19	1873.030M	43.6	+0.2	+27.5	+4.0	-29.1	+0.0	46.2	54.0	-7.8	Vert
20	2806.600M	39.7	+0.3	+29.9	+5.1	-28.8	+0.0	46.2	54.0	-7.8	Vert
21	1785.000M	44.1	+0.2	+27.1	+3.9	-29.6	+0.0	45.7	54.0	-8.3	Vert
22	1200.300M	43.5	+0.2	+26.9	+3.2	-28.1	+0.0	45.7	54.0	-8.3	Horiz
23	1208.000M	43.3	+0.2	+26.9	+3.2	-28.0	+0.0	45.6	54.0	-8.4	Vert
24	1871.660M	42.8	+0.2	+27.5	+4.0	-29.1	+0.0	45.4	54.0	-8.6	Horiz

Test Location: CKC Laboratories, Inc. •480 Los Viboras Road, Site D • Hollister, CA 95023 • 831-637-8176

Customer: **Good Technology**  
 Specification: **FCC B RADIATED**  
 Work Order #: **77909** Date: 03/05/2002  
 Test Type: **Maximized Emissions** Time: 16:08:59  
 Equipment: **Wireless E-mail device** Sequence#: 26  
 Manufacturer: Good Technology Tested By: Matthew Pettersen  
 Model: G100  
 S/N: JW020800117

**Test Equipment:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
Ant., Horn Emco 3115	9602-4660	07/09/2001	07/09/2002	2113
Cable, HF, 2-ft.	hol-hf-002-001	10/03/2001	10/03/2002	0
S.A. HP 8596E	3346A00225	05/24/2001	05/24/2002	783
Cable, HF, 50-ft.	HOL-HF-050-08	05/17/2001	05/17/2002	0
Preamp, HF-HP83051A	3331A00238	03/05/2002	03/05/2003	0

**Equipment Under Test (\* = EUT):**

Function	Manufacturer	Model #	S/N
Wireless E-mail device*	Good Technology	G100	JW020800117

**Support Devices:**

Function	Manufacturer	Model #	S/N
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**Test Conditions / Notes:**

The EUT is a handheld wireless email and calendar device with USB port. The EUT is being used as a stand alone device. The EUT is not connected to any other devices. The EUT is being fully exercised. The EUT is being powered by a battery. In this mode the receiver is continuously scanning low, middle, and high channels. The EUT is in horizontal position on its left edge on the table in a styrofoam stand. Note: Receive channels are from 890 – 896MHz, 896 - 902MHz, 935 - 940MHz, and 940 - 941MHz. Highest LO is 902MHz Radiated emissions 1Hz – 2.85GHz.

**Transducer Legend:**

T1=hol-hf-002-01	T2=Horn Antenna 4660
T3=HOL-HF-050-08	T4=45MHz- 27GHz,PreampI,HP-83051A

**Measurement Data:** Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2706.000M	43.4	+0.2	+29.4	+5.0	-29.0	+0.0	49.0	54.0	-5.0	Vert
2	2706.000M	43.4	+0.2	+29.4	+5.0	-29.0	+0.0	49.0	54.0	-5.0	Horiz
3	2806.050M	40.8	+0.3	+29.9	+5.1	-28.8	+0.0	47.3	54.0	-6.7	Vert
4	2821.150M	40.3	+0.3	+30.0	+5.1	-28.7	+0.0	47.0	54.0	-7.0	Horiz
5	1201.000M	44.7	+0.2	+26.9	+3.2	-28.1	+0.0	46.9	54.0	-7.1	Vert

6	1881.010M	44.2	+0.2	+27.5	+4.0	-29.1	+0.0	46.8	54.0	-7.2	Horiz
7	2813.550M	40.0	+0.3	+30.0	+5.1	-28.7	+0.0	46.7	54.0	-7.3	Horiz
8	2821.950M	40.0	+0.3	+30.0	+5.1	-28.7	+0.0	46.7	54.0	-7.4	Vert
9	1804.000M	44.7	+0.2	+27.2	+4.0	-29.5	+0.0	46.6	54.0	-7.4	Horiz
10	2807.050M	40.0	+0.3	+29.9	+5.1	-28.8	+0.0	46.5	54.0	-7.5	Horiz
11	1872.960M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.6	Vert
12	1804.000M	44.5	+0.2	+27.2	+4.0	-29.5	+0.0	46.4	54.0	-7.6	Vert
13	1875.900M	43.8	+0.2	+27.5	+4.0	-29.1	+0.0	46.4	54.0	-7.6	Horiz
14	1876.180M	43.7	+0.2	+27.5	+4.0	-29.1	+0.0	46.3	54.0	-7.8	Vert
15	2817.400M	39.4	+0.3	+30.0	+5.1	-28.7	+0.0	46.1	54.0	-7.9	Horiz
16	1200.000M	44.0	+0.2	+26.9	+3.1	-28.1	+0.0	46.1	54.0	-7.9	Horiz
17	1872.360M	43.4	+0.2	+27.5	+4.0	-29.1	+0.0	46.0	54.0	-8.0	Horiz
18	2811.350M	39.4	+0.3	+30.0	+5.1	-28.8	+0.0	46.0	54.0	-8.0	Vert
19	1878.210M	43.2	+0.2	+27.5	+4.0	-29.1	+0.0	45.8	54.0	-8.2	Vert
20	1881.220M	43.1	+0.2	+27.5	+4.0	-29.1	+0.0	45.7	54.0	-8.3	Vert
21	1878.280M	43.0	+0.2	+27.5	+4.0	-29.1	+0.0	45.6	54.0	-8.4	Horiz
22	2817.950M	38.9	+0.3	+30.0	+5.1	-28.7	+0.0	45.6	54.0	-8.4	Vert
23	1785.000M	43.9	+0.2	+27.1	+3.9	-29.6	+0.0	45.5	54.0	-8.5	Horiz

## **APPENDIX A - TEST SETUP PHOTOGRAPHS**

## TRANSMITTER SETUP PHOTOGRAPHS



Radiated Emissions - Front View - AC Adapter Flat

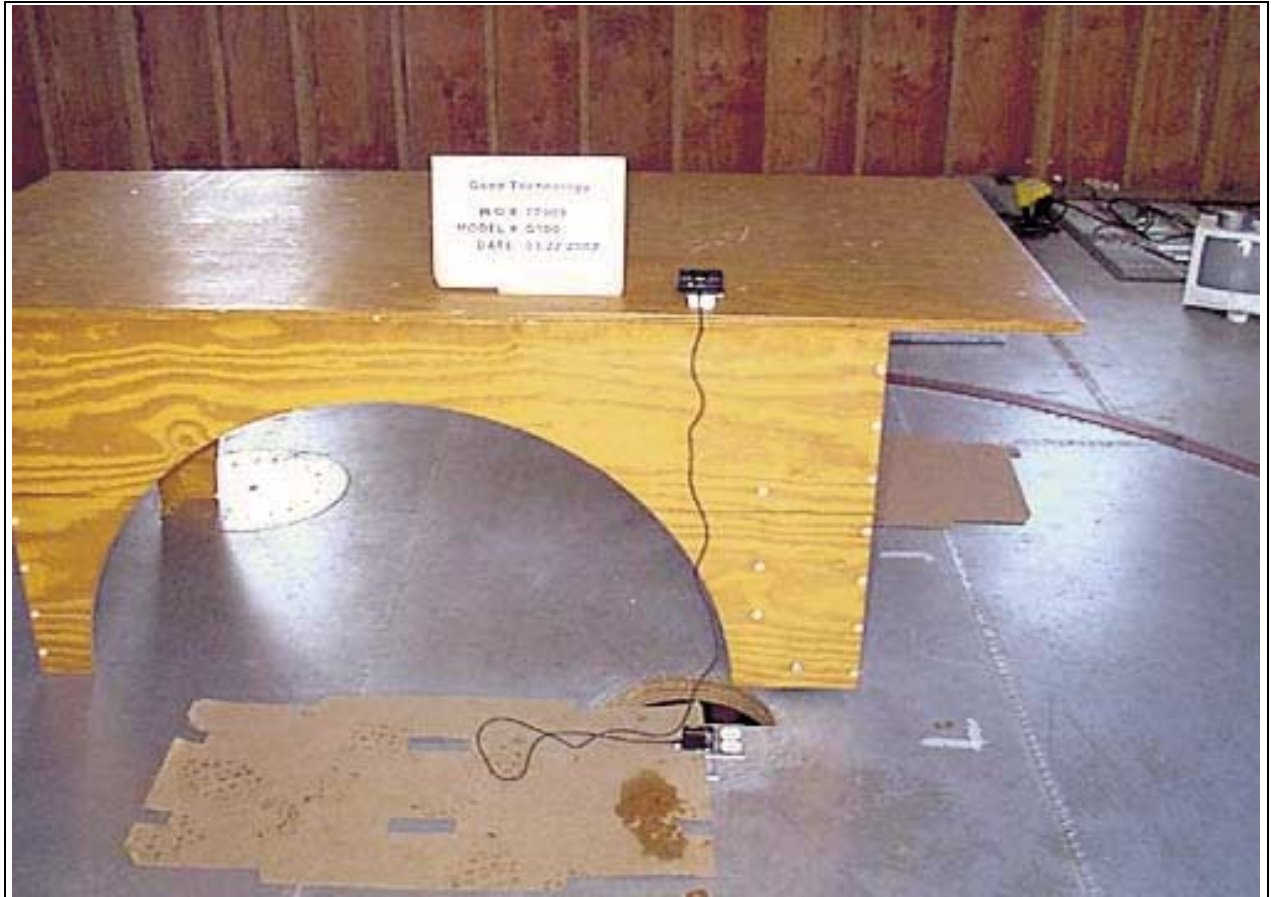




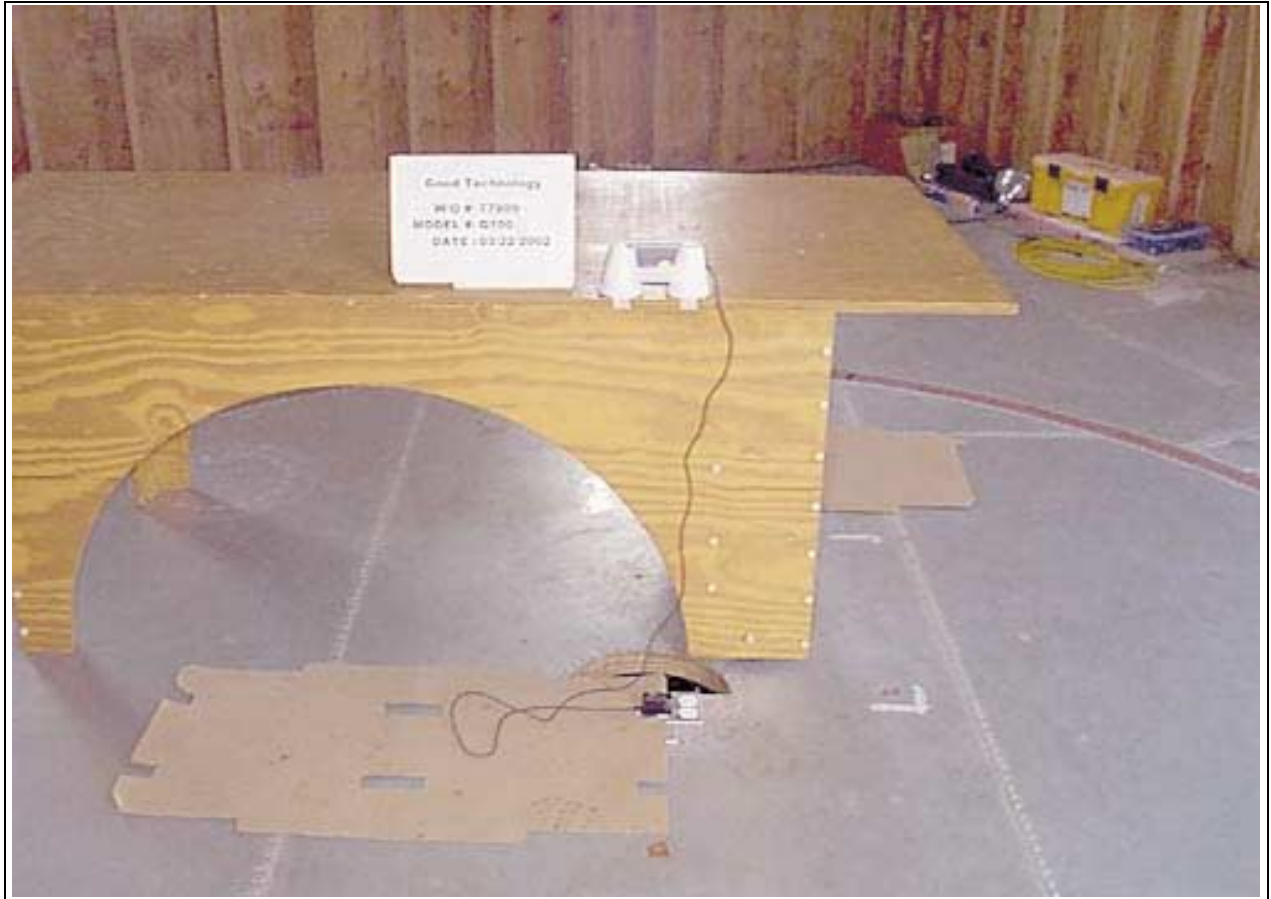
Radiated Emissions - Front View - AC Adapter Horizontal



Radiated Emissions - Front View - AC Adapter Vertical

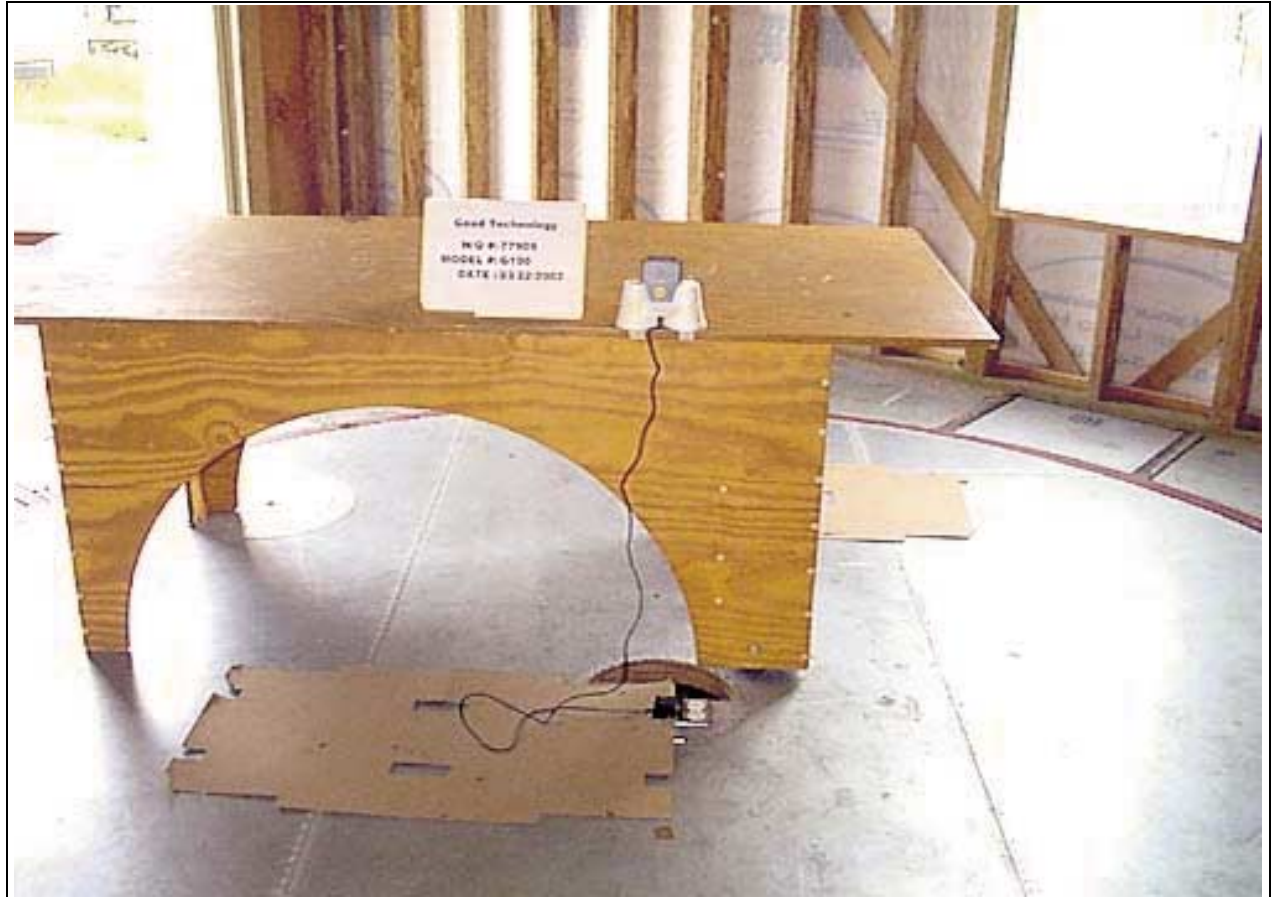


Radiated Emissions - Back View - AC Adapter Flat



Radiated Emissions - Back View - AC Adapter Horizontal





Radiated Emissions - Back View - AC Adapter Vertical



Radiated Emissions - Front View - USB Flat



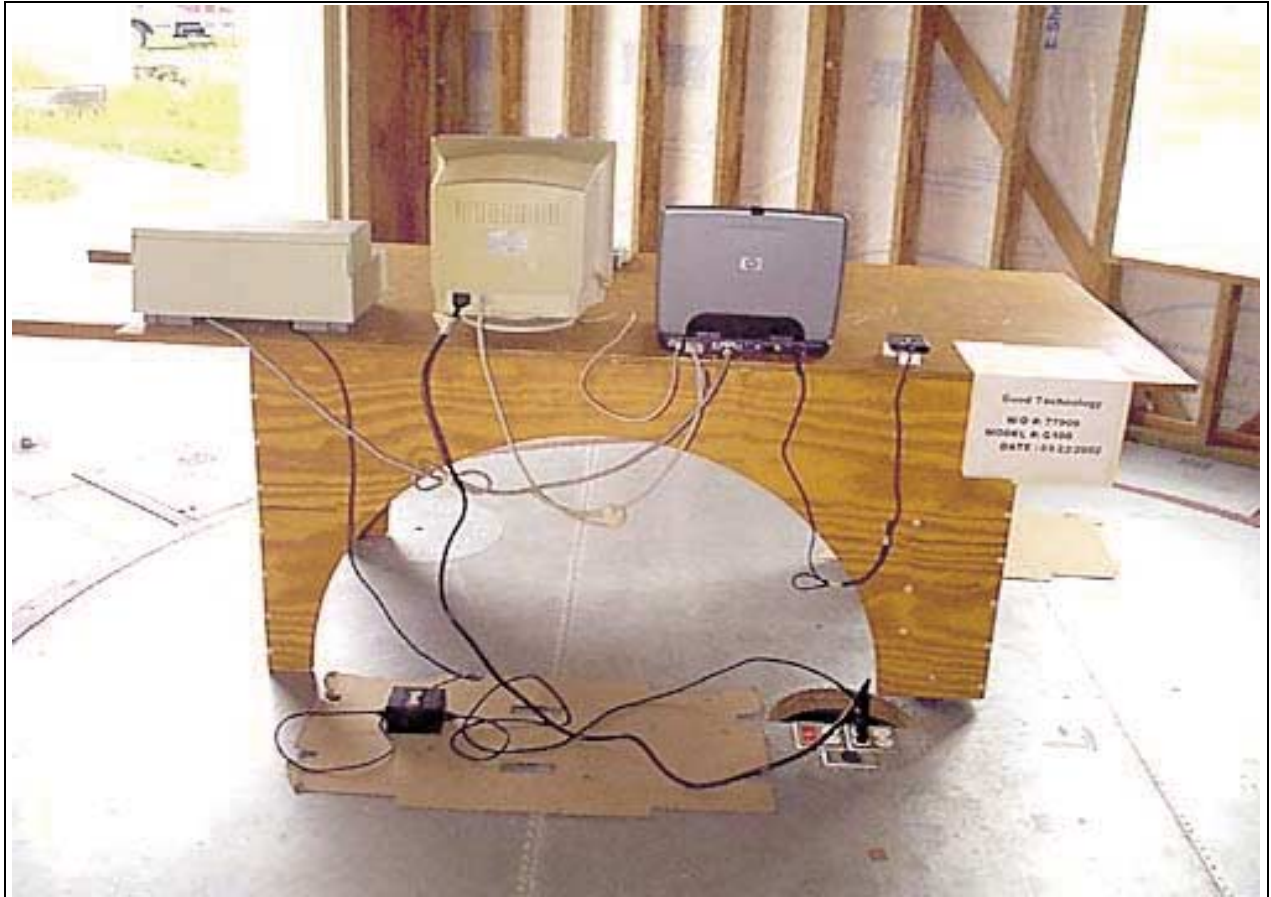
Radiated Emissions - Front View - USB Horizontal



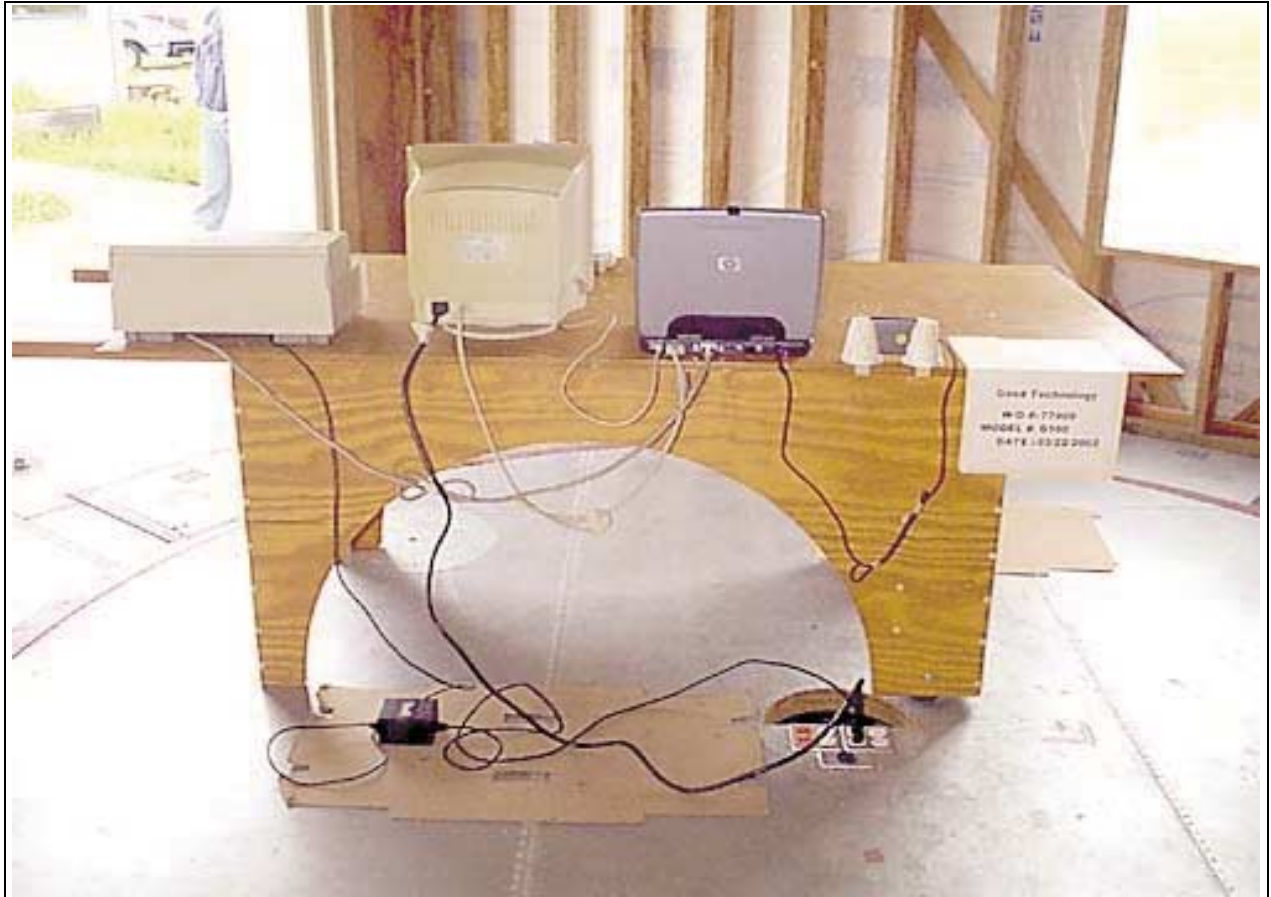


Radiated Emissions - Front View - USB Vertical

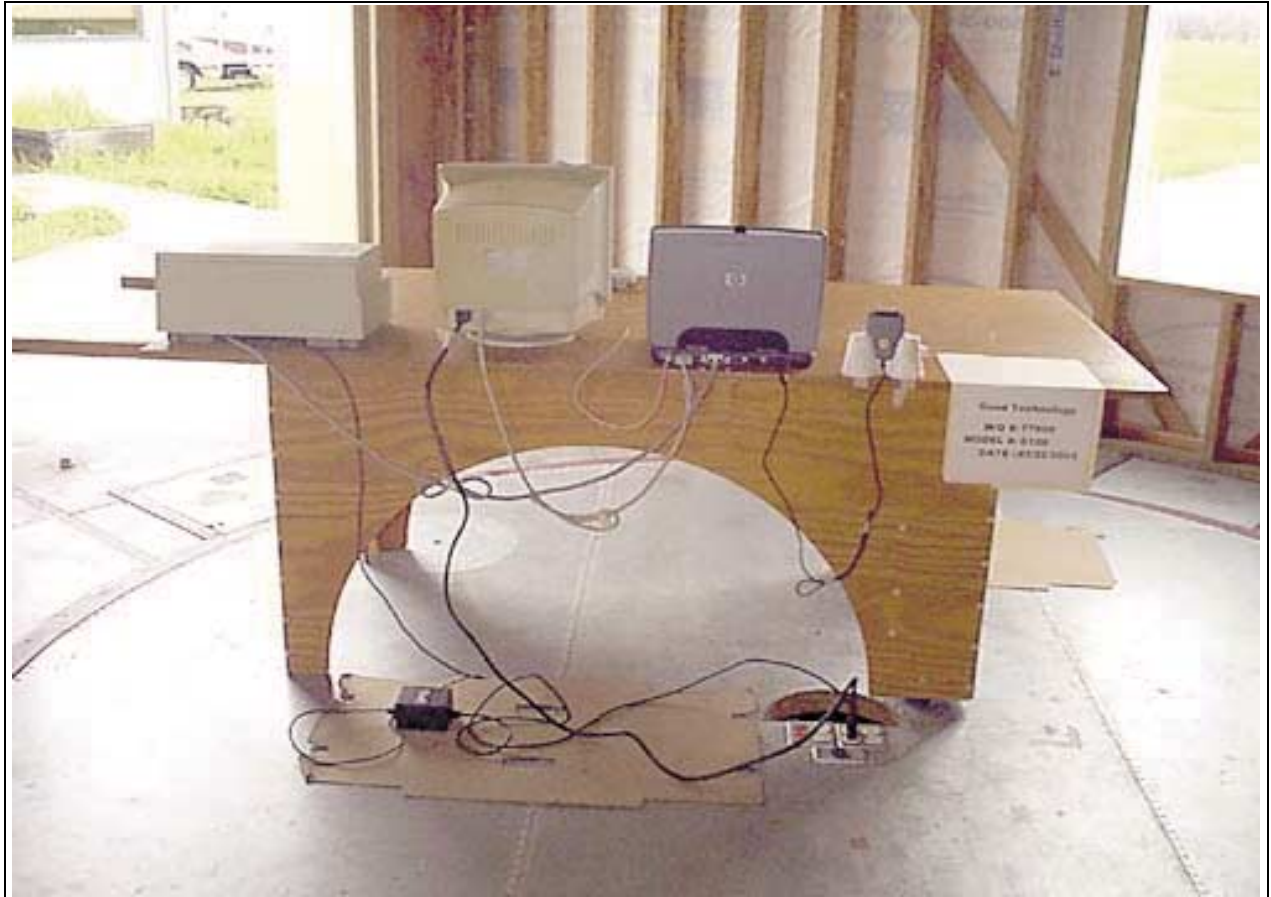




Radiated Emissions - Back View - USB Flat



Radiated Emissions - Back View - USB Horizontal



Radiated Emissions - Back View - USB Vertical



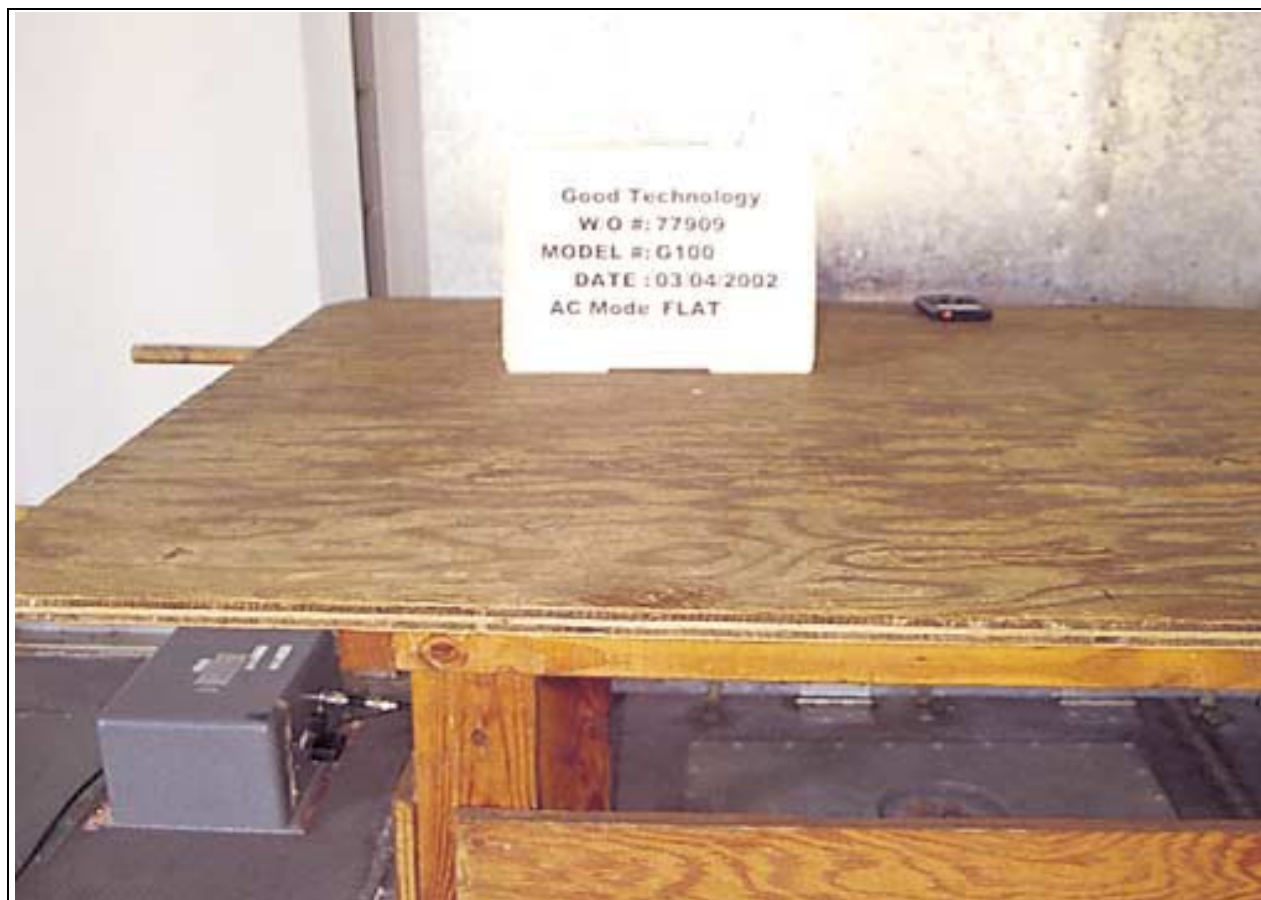
Radiated Emissions - Front View - Stand Alone Horizontal





Radiated Emissions - Back View - Stand Alone Horizontal

## RECEIVER SETUP PHOTOGRAPHS



Mains Conducted Emissions - Front View - AC Adapter



Mains Conducted Emissions - Side View - AC Adapter



Mains Conducted Emissions - Front View - USB





Mains Conducted Emissions - Side View - USB

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Radiated Emissions - Front View - AC Adapter Flat



Radiated Emissions - Front View - AC Adapter Horizontal



Radiated Emissions - Front View - AC Adapter Vertical





Radiated Emissions - Back View - AC Adapter Flat



Radiated Emissions - Back View - AC Adapter Horizontal



Radiated Emissions - Back View - AC Adapter Vertical



Radiated Emissions - Front View - USB Flat





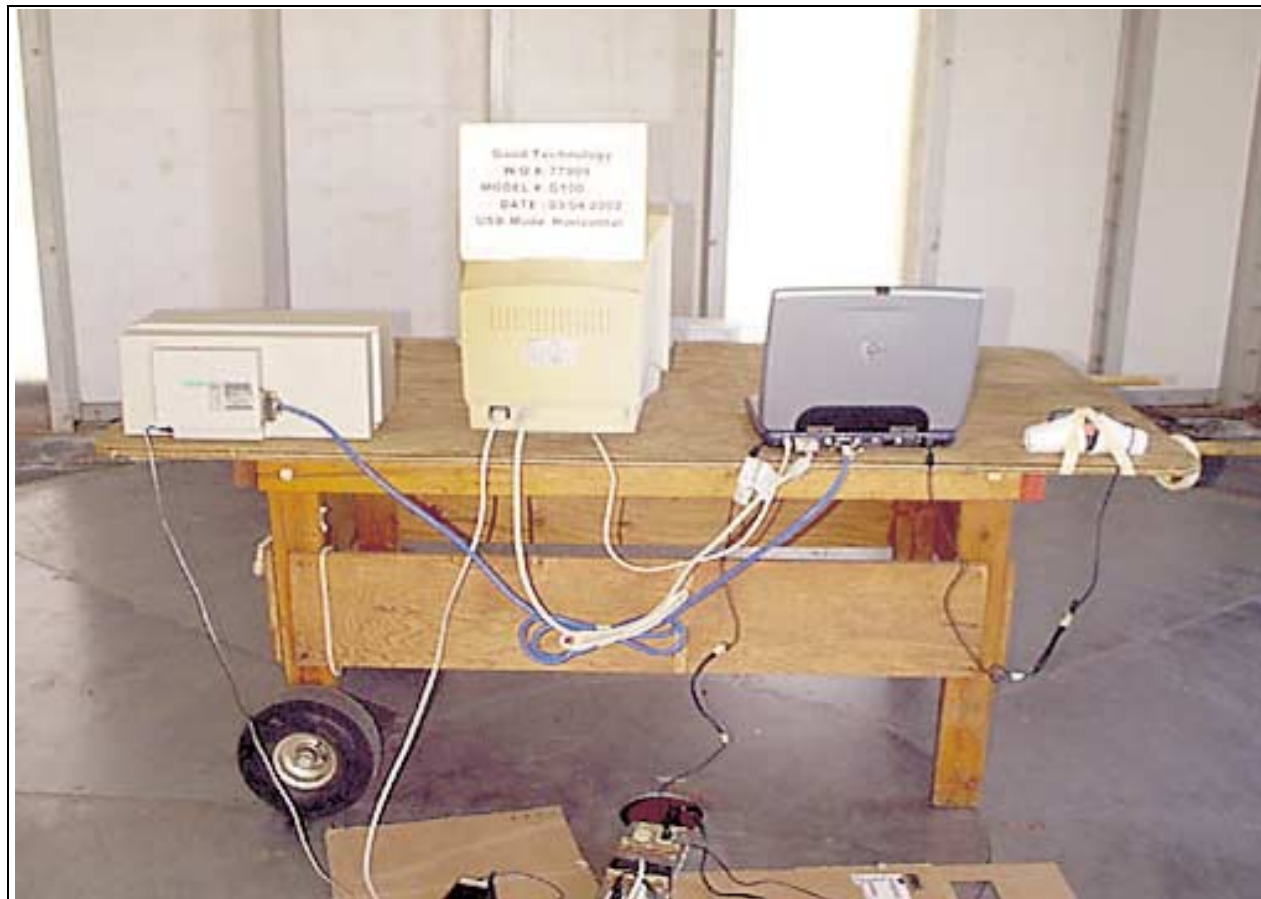
Radiated Emissions - Front View - USB Horizontal



Radiated Emissions - Front View - USB Vertical



Radiated Emissions - Back View - USB Flat



Radiated Emissions - Back View - USB Horizontal





Radiated Emissions - Back View - USB Vertical



Radiated Emissions - Back View - Battery Flat



Radiated Emissions - Back View - Battery Horizontal



Radiated Emissions - Back View - Battery Vertical