

*FCC PART 15, SUBPART C  
TEST REPORT*

*for*

TRANSMITTER  
Model: A250107  
FCC ID: LLP-P250111

Prepared for

GREER COMPANY  
1918 E. GLENWOOD PLACE  
SANTA ANA, CA 92705

Prepared by: \_\_\_\_\_

ANDRE D. KHAN

Approved by: \_\_\_\_\_

RUBY A. HALL

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DATE: NOVEMBER 04, 2002

|       | REPORT<br>BODY | APPENDICES |   |   |    |    | TOTAL |
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## GENERAL REPORT SUMMARY

This electromagnetic emission report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form except in full, without the written permission of Compatible Electronics.

This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: Transmitter  
Model: A250107  
S/N: T02212248

Product Description: This is a battery operated transmitter used on a crane to sense unsafe conditions via a switch. The unit transmits data to the receiver located in the computer in the crane's cab.

Modifications: The EUT was not modified during the testing.

Manufacturer: Greer Company  
1918 East Glenwood Pl.  
Santa Ana, CA 92705

Test Date: September 11, 2002

Test Specifications: EMI requirements  
FCC CFR Title 47, Part 15 Subpart C  
Test Procedure: ANSI C63.4: 2000.

Test Deviations: The test procedure was not deviated from during the testing.

## SUMMARY OF TEST RESULTS

| TEST | DESCRIPTION                                     | RESULTS                                                                            |
|------|-------------------------------------------------|------------------------------------------------------------------------------------|
| 1    | Radiated RF Emissions,<br>10.00 KHz to 9165 MHz | Complies with the limits of FCC CFR Title 47, Part 15 Subpart C 15.205 and 15.249. |

## **1. PURPOSE**

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Greer Company Transmitter Model: A250107. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2000. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined in FCC CFR Title 47, Part 15 Subpart C (15.205 and 15.249).

## **2. ADMINISTRATIVE DATA**

### **2.1 Location of Testing**

The EMI tests described herein were performed at the test facility of Compatible Electronics, 2337 Troutdale Drive, Agoura, California 91301.

### **2.2 Traceability Statement**

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

### **2.3 Cognizant Personnel**

Greer Company

|               |                        |
|---------------|------------------------|
| Mark Simon    | Consultant             |
| Simon Worboys | Senior Design Engineer |

Compatible Electronics Inc.

|               |                 |
|---------------|-----------------|
| Andre D. Khan | Test Technician |
| Ruby A. Hall  | Lab Manager     |

### **2.4 Date Test Sample was Received**

The test sample was received on September 11, 2002.

### **2.5 Disposition of the Test Sample**

The test sample remains at Compatible Electronics, Inc.

### **2.6 Abbreviations and Acronyms**

The following abbreviations and acronyms may be used in this document.

|      |                                      |
|------|--------------------------------------|
| RF   | Radio Frequency                      |
| EMI  | Electromagnetic Interference         |
| EUT  | Equipment Under Test                 |
| P/N  | Part Number                          |
| S/N  | Serial Number                        |
| HP   | Hewlett Packard                      |
| ITE  | Information Technology Equipment     |
| CML  | Corrected Meter Limit                |
| LISN | Line Impedance Stabilization Network |

### 3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

| SPEC                                 | TITLE                                                                                                                                 |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| FCC CFR Title 47, Part 15 Subpart C. | FCC Rules – Intentional Radiators.                                                                                                    |
| CISPR 16 1993                        | Specification for radio disturbance and immunity measuring apparatus and methods.                                                     |
| ANSI C63.4 2000                      | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz. |

#### **4. DESCRIPTION OF TEST CONFIGURATION**

##### **4.1 Description of Test Configuration - EMI**

The EUT was set-up in a tabletop configuration in the mounted position. The EUT was continuously transmitting during the testing.

The highest emissions were found when the EUT was running in the above configuration. The final radiated data was taken in this mode of operation. All initial investigations were performed with the spectrum analyzer in manual mode scanning the frequency range continuously. The EUT was setup and tested as shown in the photographs in Appendix D.

#### **4.1.1 Cable Construction and Termination**

There are no external cables connected to the EUT.

**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

| EQUIPMENT TYPE    | MANUFACTURER  | MODEL   | SERIAL NUMBER |
|-------------------|---------------|---------|---------------|
| TRANSMITTER (EUT) | GREER COMPANY | A250107 | T02212248     |

## 5.2 EMI Test Equipment

| EQUIPMENT TYPE                                                  | MANUFACTURER              | MODEL NUMBER                       | SERIAL NUMBER | CAL. DATE     | CAL. DUE DATE |
|-----------------------------------------------------------------|---------------------------|------------------------------------|---------------|---------------|---------------|
| Spectrum Analyzer                                               | Hewlett Packard           | 8566A                              | 1904A00188    | Jan. 28, 2002 | Jan. 28, 2003 |
| Quasi-Peak Adapter                                              | Hewlett Packard           | 85650A                             | 2043A00276    | Jan. 28, 2002 | Jan. 28, 2003 |
| Preamplifier                                                    | Com Power                 | CPPA-102                           | 01249         | Mar. 25, 2002 | Mar. 25, 2003 |
| Biconical Antenna                                               | Com Power                 | AB-100                             | 01535         | Mar. 26, 2002 | Mar. 26, 2003 |
| Log Periodic Antenna                                            | Com Power                 | AL-100                             | 01116         | Mar. 06, 2002 | Mar. 06, 2003 |
| Horn Antenna                                                    | A. R. A.                  | DRG 118/A                          | 1015          | Dec. 18, 2001 | Dec. 18, 2002 |
| Microwave Amplifier                                             | Com Power                 | PA-122                             | 181915        | Jun. 12, 2002 | Jun. 12, 2003 |
| Antenna Mast                                                    | Com Power                 | AM-400                             | N/A           | N/A           | N/A           |
| Turntable                                                       | Com Power                 | TT-106A                            | N/A           | N/A           | N/A           |
| Computer                                                        | Hewlett Packard           | Pavilion 4530                      | US91912022    | N/A           | N/A           |
| Printer                                                         | Hewlett Packard           | C6427B                             | MY066160TW    | N/A           | N/A           |
| (Software)<br>Radiated Emissions<br>Transmitter Data<br>Program | Compatible<br>Electronics | DOC No:<br>EMI_PART15<br>TX-B-0-50 | Rev. A        | N/A           | N/A           |
| Loop Antenna                                                    | Com Power                 | AL-130                             | 17067         | Mar. 12, 2002 | Mar. 12, 2003 |

## **6. TEST SITE DESCRIPTION**

### **6.1 Test Facility Description**

Please refer to section 2.1 and 7.1.2 of this report for EMI test location.

### **6.2 EUT Mounting, Bonding and Grounding**

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.

## **7. TEST PROCEDURES**

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

### **7.1 RF Emissions**

#### **7.1.1 Conducted Emissions Test**

The Spectrum Analyzer was used as a measuring meter along with the quasi-peak adapter. The data was collected with the Spectrum Analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the Spectrum Analyzer input stage, and the Spectrum Analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the Spectrum Analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2000. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 0.15 MHz to 1.6 MHz, 1.6 MHz to 5 MHz and 5 MHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The EUT does not connect directly to AC mains therefore this test was deemed unnecessary.

### 7.1.2 Radiated Emissions Test

The spectrum analyzer was used as a measuring meter along with a quasi-peak adapter. A Preamplifier was used to increase the sensitivity of the instrument. The Spectrum Analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. This final reading is then recorded into the a Computer data recording program, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. The quasi-peak was used only for those readings, which are marked accordingly on the data sheets. The effective measurement bandwidth used for the radiated emissions test was 120 kHz.

Broadband loop, biconical, log periodic and horn antennas were used as transducers during the measurement. The loop antenna was used from 10 KHz to 30 MHz, the biconical antenna was used from 30 MHz to 300 MHz, the log periodic antenna was used from 300 MHz to 1 GHz and the horn antenna was used from 1 GHz to 9.165 GHz. The frequency spans were wide (1 to 30MHz, 30 MHz to 88 MHz, 88 MHz to 216 MHz, 216 to 300 MHz, 300 MHz to 1 GHz and 1 GHz to 9.165 GHz) during preliminary investigations. The final data was taken with a frequency span of 1 MHz. Furthermore, the frequency span was reduced during the preliminary investigations as deemed necessary.

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2000. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength).

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a test distance of 3 meters to obtain final test data. The test data is located in Appendix E.

#### Preliminary Testing and Monitoring:

Preliminary testing was done at a distance of 1 meter instead of 3 meters to determine the predominant harmonics and spurious emission frequencies. An open field test site was used for the preliminary investigations. Broadband antennas were used to scan large frequency bands. If and when any frequency was found to be above 30 microvolts/meter level (at a 1 meter distance), this frequency was recorded as a significant frequency. All significant frequencies were further examined carefully at a frequency span on the spectrum analyzer while changing the antenna height and EUT orientation. The EUT was tested again at a test distance of 3 meters to obtain the final test data. The bandwidth of the spectrum analyzer was varied to ensure that pulse desensitization did not occur.

### 7.1.3 RF Emissions Test Results

The fundamental and up to the 10<sup>th</sup> harmonic emissions are within the specifications.

GREER COMPANY  
TRANSMITTER

RADIATED EMISSIONS – SPURIOUS

The following bands were specifically scanned.  
Frequency Band 10 KHz – 9.165 GHz

Spurious Emissions see Appendix E.

RF Energy From Transmitter in MHz at 3 meters (μV/m)

|                   |     |               |      |
|-------------------|-----|---------------|------|
| 2.1735-2.1905     | <50 | 37.5-38.25    | <100 |
| 4.125-4.128       | <50 | 73-74.6       | <100 |
| 4.17725-4.17775   | <50 | 74.8-75.2     | <100 |
| 4.20725-4.20775   | <50 | 108-121.94    | <100 |
| 6.215-6.218       | <50 | 123-138       | <150 |
| 6.26775-6.26825   | <50 | 149.9-150.05  | <150 |
| 6.31175-6.31225   | <50 | 156.52-156.52 | <150 |
| 8.291-8.294       | <50 | 162.01-167.17 | <150 |
| 8.362-8.366       | <50 | 167.72-173.2  | <150 |
| 8.37625-8.38675   | <50 | 240-285       | <200 |
| 8.41425-8.41475   | <50 | 322-335.4     | <200 |
| 12.29-12.293      | <50 | 399.9-410     | <200 |
| 12.51975-12.52025 | <50 | 608-614       | <200 |
| 12.57675-12.57725 | <50 | 960-1240      | <500 |
| 13.36-13.41       | <50 | 1300-1427     | <500 |
| 16.42-16.423      | <50 | 1435-1626.5   | <500 |
| 16.69475-16.69525 | <50 | 1645.5-1646.5 | <500 |
| 16.80425-16.80475 | <50 | 1660-1710     | <500 |
| 25.5-25.67        | <50 | 1718.8-1722.2 | <500 |

**7.1.4 RF Emissions Test Results (Continued)**RF Energy From Transmitter in MHz at 3 meters ( $\mu\text{V}/\text{m}$ )

|             |      |           |      |
|-------------|------|-----------|------|
| 2200-2300   | <500 | 4500-5150 | <500 |
| 2310-2390   | <500 | 5350-5460 | <500 |
| 2483.5-2500 | <500 | 7250-7750 | <500 |
| 2655-2900   | <500 | 8025-8500 | <500 |
| 3260-3267   | <500 | 9000-9200 | <500 |
| 3332-3339   | <500 |           |      |
| 3345.8-3358 | <500 |           |      |
| 3600-4400   | <500 |           |      |

## 8. CONCLUSIONS

The Greer Company Transmitter Model: A250107 meets all of the requirements of the FCC CFR, Title 47, Part 15, Subpart C 15.205 and 15.249.

## **APPENDIX A**

### ***LABORATORY ACCREDITATIONS***

## ***LABORATORY ACCREDITATIONS***

**Compatible Electronics has the following agency accreditations:**

National Voluntary Laboratory Accreditation Program - Lab Code: 200063-0

Voluntary Control Council for Interference - Registration Numbers: R-826, C-862, R-653 and C-669

Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

**Compatible Electronics is recognized or on file with the following agencies:**

Federal Communications Commission

Industry Canada

Radio-Frequency Technologies (Competent Body)

Conformity Assessment Body for the EMC directive under the US/EU MRA appointed by NIST.

## **APPENDIX B**

### ***MODIFICATIONS TO THE EUT***

## **MODIFICATIONS TO THE EUT**

There were no modifications made to the EUT during the test.

## **APPENDIX C**

### ***ADDITIONAL MODELS COVERED UNDER THIS REPORT***

## **ADDITIONAL MODELS COVERED UNDER THIS REPORT**

USED FOR THE PRIMARY TEST

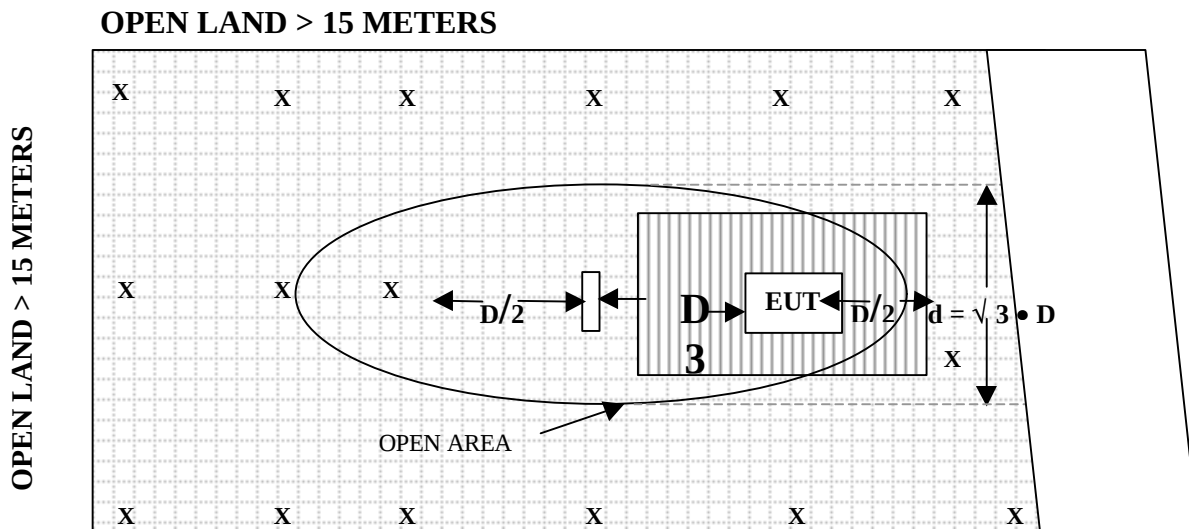
TRANSMITTER  
Model: A250107

There were no additional models covered under this report.

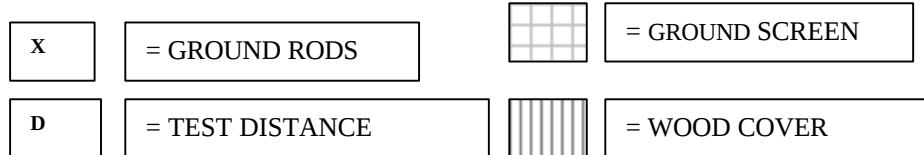
## **APPENDIX D**

### ***DIAGRAMS, CHARTS AND PHOTOS***

## FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE



### OPEN LAND > 15 METERS



COM-POWER AL-130

ACTIVE LOOP ANTENNA

S/N: 17067

CALIBRATION DATE: MARCH 12, 2002

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 0.009              | 11.3           | 1                  | 10.8           |
| 0.01               | 11.3           | 2                  | 11.2           |
| 0.02               | 10.5           | 3                  | 10.9           |
| 0.03               | 12.1           | 4                  | 10.8           |
| 0.04               | 11.6           | 5                  | 11.4           |
| 0.05               | 10.2           | 6                  | 11.4           |
| 0.06               | 10.6           | 7                  | 11.1           |
| 0.07               | 10.3           | 8                  | 10.9           |
| 0.08               | 10.0           | 9                  | 11.5           |
| 0.09               | 9.9            | 10                 | 11.0           |
| 0.1                | 9.9            | 12                 | 10.3           |
| 0.2                | 7.5            | 14                 | 10.2           |
| 0.3                | 10.0           | 15                 | 10.1           |
| 0.4                | 10.0           | 16                 | 10.1           |
| 0.5                | 10.0           | 18                 | 10.2           |
| 0.6                | 10.1           | 20                 | 10.3           |
| 0.7                | 10.1           | 25                 | 9.7            |
| 0.8                | 10.1           | 30                 | 8.5            |
| 0.9                | 10.3           |                    |                |

COM-POWER AB-100

BICONICAL ANTENNA

S/N: 1535

CALIBRATION DATE: MARCH 26, 2002

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 30                 | 13.8           | 120                | 9.3            |
| 35                 | 12.9           | 125                | 11.0           |
| 40                 | 12.5           | 140                | 12.2           |
| 45                 | 12.2           | 150                | 12.4           |
| 50                 | 12.5           | 160                | 13.0           |
| 60                 | 10.5           | 175                | 14.5           |
| 70                 | 8.5            | 180                | 14.9           |
| 80                 | 8.0            | 200                | 15.0           |
| 90                 | 7.9            | 250                | 16.2           |
| 100                | 8.5            | 300                | 19.0           |

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 01116

CALIBRATION DATE: MARCH 6, 2002

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 300                | 11.70          | 700                | 19.80          |
| 400                | 11.80          | 800                | 22.40          |
| 500                | 15.90          | 900                | 22.20          |
| 600                | 17.30          | 1000               | 23.60          |

**COM-POWER PA-102****PREAMPLIFIER****S/N: 1249****CALIBRATION DATE: MARCH 25, 2002**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 30                         | 36.7                   | 300                        | 36.0                   |
| 40                         | 36.8                   | 350                        | 35.9                   |
| 50                         | 36.7                   | 400                        | 36.0                   |
| 60                         | 36.6                   | 450                        | 35.5                   |
| 70                         | 36.5                   | 500                        | 35.7                   |
| 80                         | 36.7                   | 550                        | 36.2                   |
| 90                         | 36.6                   | 600                        | 35.4                   |
| 100                        | 36.6                   | 650                        | 35.7                   |
| 125                        | 36.4                   | 700                        | 36.3                   |
| 150                        | 36.4                   | 750                        | 35.0                   |
| 175                        | 36.2                   | 800                        | 35.1                   |
| 200                        | 36.2                   | 850                        | 35.1                   |
| 225                        | 36.2                   | 900                        | 33.5                   |
| 250                        | 36.1                   | 950                        | 32.7                   |
| 275                        | 36.0                   | 1000                       | 32.3                   |

**COM-POWER PA-122****PREAMPLIFIER****S/N: 181915****CALIBRATION DATE: JUNE 12, 2002**

| <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> | <b>FREQUENCY<br/>(MHz)</b> | <b>FACTOR<br/>(dB)</b> |
|----------------------------|------------------------|----------------------------|------------------------|
| 1000                       | 32.8                   | 7000                       | 32.8                   |
| 1100                       | 32.8                   | 7500                       | 32.7                   |
| 1200                       | 32.7                   | 8000                       | 32.2                   |
| 1300                       | 32.6                   | 8500                       | 31.4                   |
| 1400                       | 32.7                   | 9000                       | 32.3                   |
| 1500                       | 32.8                   | 9500                       | 31.4                   |
| 1600                       | 32.5                   | 10000                      | 31.4                   |
| 1700                       | 32.2                   | 11000                      | 33.2                   |
| 1800                       | 27.0                   | 12000                      | 33.6                   |
| 1900                       | 29.2                   | 13000                      | 32.2                   |
| 2000                       | 29.7                   | 14000                      | 32.8                   |
| 2500                       | 33.0                   | 15000                      | 32.0                   |
| 3000                       | 33.3                   | 16000                      | 33.0                   |
| 3500                       | 33.6                   | 17000                      | 33.5                   |
| 4000                       | 33.3                   | 18000                      | 33.4                   |
| 4500                       | 33.3                   |                            |                        |
| 5000                       | 33.1                   |                            |                        |
| 5500                       | 33.0                   |                            |                        |
| 6000                       | 33.1                   |                            |                        |
| 6500                       | 32.8                   |                            |                        |

A.R.A DRG-118/A

HORN ANTENNA

S/N: 1015

CALIBRATION DATE: DECEMBER 18, 2001

| FREQUENCY<br>(MHz) | FACTOR<br>(dB) | FREQUENCY<br>(MHz) | FACTOR<br>(dB) |
|--------------------|----------------|--------------------|----------------|
| 1000               | 25.8           | 10000              | 41.3           |
| 1500               | 26.9           | 10500              | 42.1           |
| 2000               | 30.9           | 11000              | 42.2           |
| 2500               | 30.2           | 11500              | 43.6           |
| 3000               | 31.8           | 12000              | 44.0           |
| 3500               | 32.4           | 12500              | 42.2           |
| 4000               | 31.9           | 13000              | 40.7           |
| 4500               | 31.6           | 13500              | 40.9           |
| 5000               | 33.3           | 14000              | 39.7           |
| 5500               | 31.8           | 14500              | 44.7           |
| 6000               | 38.2           | 15000              | 42.4           |
| 6500               | 38.2           | 15500              | 45.1           |
| 7000               | 38.3           | 16000              | 42.8           |
| 7500               | 38.4           | 16500              | 42.6           |
| 8000               | 39.5           | 17000              | 45.9           |
| 8500               | 38.8           | 17500              | 49.2           |
| 9000               | 40.9           | 18000              | 42.4           |
| 9500               | 40.2           |                    |                |



**FRONT VIEW**

GREER COMPANY  
TRANSMITTER  
Model: A250107

FCC CLASS B RADIATED EMISSIONS – 9-11-02

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**



**REAR VIEW**

GREER COMPANY  
TRANSMITTER  
Model: A250107

FCC CLASS B - RADIATED EMISSIONS – 9-11-02

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION  
FOR MAXIMUM EMISSIONS**

## **APPENDIX E**

### ***DATA SHEETS***



## ***RADIATED EMISSIONS***

COMPANY NAME: Greek Company DATE: 9-11-02

EUT: TRANSM. Her EUT S/N: \_\_\_\_\_

EUT MODEL: A250107 LOCATION: ☐ BREA ☐ SILVERADO ☒ AGOURA

SPECIFICATION: Fcc CLASS: B TEST DISTANCE: 3M LAB: F

ANTENNA: ☒ LOOP ☐ BICONICAL ☐ LOG ☐ HORN      POLARIZATION: ☐ VERT ☐ HORIZ

☒ QUALIFICATION    ☐ ENGINEERING    ☐ MFG. AUDIT    ENGINEER: A Khan

NOTES: 3.58MHz 14.318MHz

[illegible]

\* DELTA = METER READING - CORRECTED LIMIT



# COMPATIBLE ELECTRONICS

Test Location : Compatible Electronics  
Customer : MARK SIMON  
Manufacturer : GREER  
Eut name : TRANSMITTER  
Model : A250107  
Serial # : T02212248  
Specification : FCC Pt. 15 - Class B  
Distance correction factor (20 \* log(test/spec)) : 0.00  
Test Mode : CLOCKS:14.318, 3.58 MHz

Page : 1/1  
Date : 09/11/2002  
Time : 10:31:00 AM  
Lab : F  
Test Distance : 3.00 Meters

| Pol | Freq<br>MHz | Reading<br>dBuV | Cable<br>loss<br>dB | Antenna<br>factor<br>dB | Amplifier<br>gain<br>dB | Corr'd<br>rdg = R<br>dBuV/m | Limit<br>= L<br>dBuV/m | Delta<br>R-L<br>dB |
|-----|-------------|-----------------|---------------------|-------------------------|-------------------------|-----------------------------|------------------------|--------------------|
| 1V  | 43.018      | 48.10           | 1.47                | 12.31                   | 36.77                   | 25.11                       | 40.00                  | -14.89             |
| 2V  | 57.208      | 48.30           | 1.67                | 11.02                   | 36.63                   | 24.37                       | 40.00                  | -15.63             |
| 3V  | 71.518      | 48.70           | 1.92                | 8.42                    | 36.53                   | 22.50                       | 40.00                  | -17.50             |
| 4V  | 85.820      | 45.20           | 2.06                | 7.94                    | 36.64                   | 18.56                       | 40.00                  | -21.44             |
| 5V  | 100.130     | 40.50           | 2.20                | 8.51                    | 36.60                   | 14.61                       | 43.50                  | -28.89             |
| 6V  | 114.436     | 48.90           | 2.38                | 9.09                    | 36.48                   | 23.89                       | 43.50                  | -19.61             |
| 7V  | 143.028     | 42.50           | 2.65                | 12.26                   | 36.40                   | 21.01                       | 43.50                  | -22.49             |
| 8V  | 171.624     | 42.90           | 3.05                | 14.17                   | 36.23                   | 23.90                       | 43.50                  | -19.60             |
| 9H  | 42.930      | 41.00           | 1.46                | 12.32                   | 36.77                   | 18.01                       | 40.00                  | -21.99             |
| 10H | 57.204      | 42.30           | 1.67                | 11.02                   | 36.63                   | 18.37                       | 40.00                  | -21.63             |
| 11H | 71.481      | 45.10           | 1.92                | 8.42                    | 36.53                   | 18.91                       | 40.00                  | -21.09             |
| 12H | 85.846      | 48.20           | 2.06                | 7.94                    | 36.64                   | 21.56                       | 40.00                  | -18.44             |
| 13H | 100.096     | 43.50           | 2.20                | 8.50                    | 36.60                   | 17.61                       | 43.50                  | -25.89             |
| 14H | 114.406     | 47.20           | 2.38                | 9.09                    | 36.48                   | 22.19                       | 43.50                  | -21.31             |
| 15H | 120.006     | 43.10           | 2.45                | 9.30                    | 36.44                   | 18.41                       | 43.50                  | -25.09             |
| 16H | 143.045     | 44.30           | 2.65                | 12.26                   | 36.40                   | 22.81                       | 43.50                  | -20.69             |
| 17H | 171.634     | 42.40           | 3.05                | 14.17                   | 36.23                   | 23.40                       | 43.50                  | -20.10             |
| 18V | 314.647     | 43.20           | 4.59                | 11.72                   | 35.97                   | 23.53                       | 46.00                  | -22.47             |
| 19V | 343.274     | 40.20           | 4.92                | 11.75                   | 35.91                   | 20.96                       | 46.00                  | -25.04             |
| 20H | 314.680     | 42.10           | 4.59                | 11.72                   | 35.97                   | 22.43                       | 46.00                  | -23.57             |
| 21H | 343.232     | 38.80           | 4.92                | 11.75                   | 35.91                   | 19.56                       | 46.00                  | -26.44             |

## EUT AND LAB INFORMATION

|                        |                                                  |
|------------------------|--------------------------------------------------|
| COMPANY:               | Greer Company                                    |
| EUT NAME:              | 916.5 MHz TX                                     |
| EUT MODEL:             | A250107                                          |
| EUT S/N:               | T02212248                                        |
| EUT MODE:              | TRANSMIT                                         |
| LOW CHANNEL (MHz):     | 916.5                                            |
| MEDIUM CHANNEL (MHz):  |                                                  |
| HIGH CHANNEL (MHz):    |                                                  |
| FULL BANDWIDTH (MHz):  |                                                  |
| DUTY CYCLE %           | 0                                                |
| LEAVE BLANK FOR 3 AXIS | 0                                                |
| LAB:                   | F                                                |
| TEST DATE:             | 9/11/02                                          |
| DATA SHEET TITLE:      | RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205) |
| TEST ENGINEER:         | Andre D. Khan                                    |
| TEST DISTANCE:         | 3 METERS                                         |

ENTER "0" IF THERE IS NO DUTY CYCLE PERCENTAGE  
ENTER "0" IF TESTING ONLY ONE AXIS

LAB FACTORS (CHANNEL 1)

| FREQ.<br>(MHz)              |             |               |                           |      | CABLE<br>LOSS              | PREAMP<br>GAIN            | ANT.<br>FACTORS              |
|-----------------------------|-------------|---------------|---------------------------|------|----------------------------|---------------------------|------------------------------|
| .01-30<br>S/N<br>CAL DUE    |             |               |                           |      |                            |                           |                              |
| 30-300<br>S/N<br>CAL DUE    |             |               |                           |      | RG-8/U<br>3548<br>3/28/03  | PA-102<br>1249<br>3/25/03 | AB-100<br>1535<br>3/26/03    |
| 300-1000<br>S/N<br>CAL DUE  |             |               |                           |      | RG-8/U<br>3548<br>3/28/03  | PA-102<br>1249<br>3/25/03 | AL-100<br>1116<br>3/6/03     |
| 1G-13G<br>S/N<br>CAL DUE    |             |               |                           |      | FSJ1-50<br>3567<br>4/16/03 | PA-122<br>3580<br>6/12/03 | DRG-118A<br>1015<br>12/18/02 |
| 13G-18G<br>S/N<br>CAL DUE   |             |               |                           |      | FSJ1-50<br>3567<br>4/16/03 | PA-122<br>3580<br>6/12/03 | DRG-118A<br>1015<br>12/18/02 |
| 18G-26.5G<br>S/N<br>CAL DUE | RESTRICTED? | A<br>or<br>QP | SPEC<br>LIMIT<br>(dBuV/m) |      |                            |                           |                              |
| 916.50                      | 0           | 0             | QP                        | 54.0 | 8.3                        | 33.2                      | 22.4                         |
| 1833.00                     | 0           | 0             | A                         | 54.0 | 5.7                        | 27.7                      | 29.6                         |
| 2749.50                     | 1           | 0             | A                         | 54.0 | 6.3                        | 33.2                      | 31.0                         |
| 3666.00                     | 1           | 0             | A                         | 54.0 | 7.7                        | 33.5                      | 32.2                         |
| 4582.50                     | 1           | 0             | A                         | 54.0 | 8.1                        | 33.3                      | 31.9                         |
| 5499.00                     | 0           | 0             | A                         | 54.0 | 10.4                       | 33.0                      | 31.8                         |
| 6415.50                     | 0           | 0             | A                         | 54.0 | 11.5                       | 32.9                      | 38.2                         |
| 7332.00                     | 1           | 0             | A                         | 54.0 | 11.7                       | 32.7                      | 38.4                         |
| 8248.50                     | 1           | 0             | A                         | 54.0 | 12.4                       | 31.8                      | 39.2                         |
| 9165.00                     | 1           | 0             | A                         | 54.0 | 13.4                       | 32.0                      | 40.7                         |

LAB FACTORS (CHANNEL 2)

| FREQ.<br>(MHz)              |             |               |                           |  | CABLE<br>LOSS | PREAMP<br>GAIN | ANT.<br>FACTORS |
|-----------------------------|-------------|---------------|---------------------------|--|---------------|----------------|-----------------|
| .01-30<br>S/N<br>CAL DUE    |             |               |                           |  |               |                |                 |
| 30-300<br>S/N<br>CAL DUE    |             |               |                           |  |               |                |                 |
| 300-1000<br>S/N<br>CAL DUE  |             |               |                           |  |               |                |                 |
| 1G-13G<br>S/N<br>CAL DUE    |             |               |                           |  |               |                |                 |
| 13G-18G<br>S/N<br>CAL DUE   |             |               |                           |  |               |                |                 |
| 18G-26.5G<br>S/N<br>CAL DUE | RESTRICTED? | A<br>or<br>QP | SPEC<br>LIMIT<br>(dBuV/m) |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | QP                        |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |

LAB FACTORS (CHANNEL 3)

| FREQ.<br>(MHz)              |             |               |                           |  | CABLE<br>LOSS | PREAMP<br>GAIN | ANT.<br>FACTORS |
|-----------------------------|-------------|---------------|---------------------------|--|---------------|----------------|-----------------|
| .01-30<br>S/N<br>CAL DUE    |             |               |                           |  |               |                |                 |
| 30-300<br>S/N<br>CAL DUE    |             |               |                           |  |               |                |                 |
| 300-1000<br>S/N<br>CAL DUE  |             |               |                           |  |               |                |                 |
| 1G-13G<br>S/N<br>CAL DUE    |             |               |                           |  |               |                |                 |
| 13G-18G<br>S/N<br>CAL DUE   |             |               |                           |  |               |                |                 |
| 18G-26.5G<br>S/N<br>CAL DUE | RESTRICTED? | A<br>or<br>QP | SPEC<br>LIMIT<br>(dBuV/m) |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | QP                        |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |
| 0.00                        | #N/A        | #N/A          | A                         |  |               |                |                 |

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 916.5000         | 96.0                      | 95.7 QP                               | H                             |                               |                             |                        |                      | 22.4                      | 8.3                   | 33.2                      | 93.2                              | -0.8                | 94.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
| 916.5000         | 85.5                      | QP                                    | V                             | 1.0                           | 190                         |                        |                      | 22.4                      | 8.3                   | 33.2                      | 83.0                              | -11.0               | 94.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 1833.0000        | 43.5                      | 31.1 A                                | H                             | 1.5                           | 175                         |                        |                      | 29.6                      | 5.7                   | 27.7                      | 38.7                              | -15.3               | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
| 1833.0000        | 43.0                      | A                                     | V                             | 1.0                           | 160                         |                        |                      | 29.6                      | 5.7                   | 27.7                      | 50.6                              | -3.4                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 2749.5000        | 48.7                      | 41.5 A                                | H                             | 1.5                           | 180                         |                        |                      | 31.0                      | 6.3                   | 33.2                      | 45.7                              | -8.4                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
| 2749.5000        | 49.6                      | 45.2 A                                | V                             | 1.0                           | 170                         |                        |                      | 31.0                      | 6.3                   | 33.2                      | 49.4                              | -4.6                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 3666.0000        | 45.2                      | 36.1 A                                | H                             | 2.0                           | 180                         |                        |                      | 32.2                      | 7.7                   | 33.5                      | 42.5                              | -11.5               | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
| 3666.0000        | 44.1                      | A                                     | V                             | 1.0                           | 170                         |                        |                      | 32.2                      | 7.7                   | 33.5                      | 50.5                              | -3.5                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 4582.5000        | 40.4                      | A                                     | H                             | 2.0                           | 175                         |                        |                      | 31.9                      | 8.1                   | 33.3                      | 47.2                              | -6.8                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
| 4582.5000        | 40.5                      | A                                     | V                             | 1.0                           | 180                         |                        |                      | 31.9                      | 8.1                   | 33.3                      | 47.3                              | -6.7                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|----------|
| 5499.0000        | 41.0                      | A                                     | H                             | 2.0                           | 180                         |                        |                      | 31.8                      | 10.4                  | 33.0                      | 50.2                              | -3.8                | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
| 5499.0000        | 42.6                      | 32.6 A                                | V                             | 1.0                           | 180                         |                        |                      | 31.8                      | 10.4                  | 33.0                      | 41.8                              | -12.2               | 54.0                      |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |          |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments          |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|-------------------|
| 6415.5000        |                           | A                                     | H                             |                               |                             |                        |                      | 38.2                      | 11.5                  | 32.9                      |                                   |                     | 54.0                      | NO READINGS FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
| 6415.5000        |                           | A                                     | V                             |                               |                             |                        |                      | 38.2                      | 11.5                  | 32.9                      |                                   |                     | 54.0                      | NO READINGS FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                   |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments         |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|------------------|
| 7332.0000        |                           | A                                     | H                             |                               |                             |                        |                      | 38.4                      | 11.7                  | 32.7                      |                                   |                     | 54.0                      | NO READING FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
| 7332.0000        |                           | A                                     | V                             |                               |                             |                        |                      | 38.4                      | 11.7                  | 32.7                      |                                   |                     | 54.0                      | NO READING FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments         |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|------------------|
| 8248.5000        |                           | A                                     | H                             |                               |                             |                        |                      | 39.2                      | 12.4                  | 31.8                      |                                   |                     | 54.0                      | NO READING FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
| 8248.5000        |                           | A                                     | V                             |                               |                             |                        |                      | 39.2                      | 12.4                  | 31.8                      |                                   |                     | 54.0                      | NO READING FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING

## RADIATED EMISSIONS (FCC SECTION 15.249 & 15.205)

|               |               |             |          |
|---------------|---------------|-------------|----------|
| COMPANY       | Greer Company | DATE        | 9/11/02  |
| EUT           | 916.5 MHz TX  | DUTY CYCLE  | 0.00 %   |
| MODEL         | A250107       | PEAK TO AVG | 0 dB     |
| S/N           | T02212248     | TEST DIST.  | 3 METERS |
| TEST ENGINEER | Andre D. Khan | LAB         | F        |

| Frequency<br>MHz | Peak<br>Reading<br>(dBuV) | Average (A)<br>or Quasi-<br>Peak (QP) | Antenna<br>Polar.<br>(V or H) | Antenna<br>Height<br>(meters) | EUT<br>Azimuth<br>(degrees) | EUT<br>Axis<br>(X,Y,Z) | EUT<br>Tx<br>Channel | Antenna<br>Factor<br>(dB) | Cable<br>Loss<br>(dB) | Amplifier<br>Gain<br>(dB) | *Corrected<br>Reading<br>(dBuV/m) | Delta<br>**<br>(dB) | Spec<br>Limit<br>(dBuV/m) | Comments         |
|------------------|---------------------------|---------------------------------------|-------------------------------|-------------------------------|-----------------------------|------------------------|----------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|---------------------|---------------------------|------------------|
| 9165.0000        |                           | A                                     | H                             |                               |                             |                        |                      | 40.7                      | 13.4                  | 32.0                      |                                   |                     | 54.0                      | NO READING FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
| 9165.0000        |                           | A                                     | V                             |                               |                             |                        |                      | 40.7                      | 13.4                  | 32.0                      |                                   |                     | 54.0                      | NO READING FOUND |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |
|                  |                           |                                       |                               |                               |                             |                        |                      |                           |                       |                           |                                   |                     |                           |                  |

\* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN  
 \*\* DELTA = SPEC LIMIT - CORRECTED READING